

LFV, SE-601 79 NORRKÖPING. Phone +46 11 19 20 00. Fax +46 11 19 25 75. AFTN ESKLYAYT

Principal changes included in this Amendment./
Ändringens huvudsakliga innehåll.

Do not insert in AIP until/Sätt ej in i
AIP förrän **28 NOV 2024**

Subject(s)	AIRAC Changes	AIP page
Radio navigation aids	VOR/DME LJU withdrawn.	GEN 2.5
Name-Code designators for significant points	New: AKVOW, BAZOQ, DIWDE, IFCAG, UPCUM and UPMAD. Changed: POKEN.	ENR 4.4
Hemavan Tärnaby AD	IAP, MAG VAR.	AD 2 ESUT
Jönköping AD	IAP, SID/STAR, omnidirectional departure procedures, MAG VAR.	AD 2 ESGJ
Kalmar AD	IAP, SID/STAR.	AD 2 ESMQ
Kiruna AD	PPR, apron, local traffic regulations, flight procedures, granted exemptions.	AD 2 ESNQ
Ljungbyhed AD	IAP, MAG VAR, SID/STAR and VOR procedures withdrawn, new waypoint SOGJU.	AD 2 ESTL
Stockholm/Arlanda AD	RWY, TWY and apron PCN, RWY Strip dimensions, RESA, OFZ.	AD 2 ESSA
Stockholm/Bromma AD	Operational hours, TWY and apron PCN, RESA, OFZ.	AD 2 ESSB
Umeå AD	PPR TEL, RWY Edge lights RWY 32, LOC/GP Class.	AD 2 ESNU

Subject(s)	Non AIRAC changes.	AIP page
	Effective on receipt. Users are advised not to insert the replacement pages before the effective date of this Amendment. Any NOTAM preceding the changes below will remain in force until the AIRAC date.	
Air Traffic Services	ESMQ and ESNU TWR TEL.	GEN 3.3
Prohibited, restricted and danger areas	New: ES R125 Göteborg, ES D156 Liikavaara. Changed: ES R24 Drottningholm, ES R111 Sörentorp, ES D155 Aitik.	ENR 5.1
Aerodrome directory	ESHA, ESHX, ESEQ, ESHI, ESES, ESHK, ESHU, ESKD, ESGF, ESMO, ESGR.	AD 1.1
Gällivare AD	Secondary power supply/switch-over time, LED lights.	AD 2 ESNQ
Göteborg/Landvetter AD	Anemometer, ground handling.	AD 2 ESGG
Hagfors AD	ILS Class, frequencies.	AD 2 ESOH
Karlstad AD	Use of HEMS, fuel.	AD 2 ESOK
Linköping/Malmen AD	Departing traffic RWY 01/19, additional information.	AD 2 ESCF
Linköping/Saab AD	Operational hours.	AD 2 ESSL
Malmö AD	RESA, OFZ, LOC/GP Class.	AD 2 ESMS
Norrköping/Kungsängen AD	OBST converted from meter to feet, local traffic regulations.	AD 2 ESSP
Visby AD	Fuel, LOC/GP Class.	AD 2 ESSV
Åre Östersund AD	LOC/GP Class.	AD 2 ESNZ

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Anteckna ändringen på sida GEN 0.2-1.

Record the Amendment on page GEN 0.2-1.

Följande AIP Supplement, AIC och NOTAM
är inarbetade i detta AMDT och upphör att gälla den
28 NOV 24

The following AIP Supplements, AIC and NOTAMs
are incorporated in this amendment and will expire on
28 NOV 24.

Supplement: 129/24, 139/24, 155/24, 156/24, 193/24, 194/24, 195/24, 200/24.

AIC: -

NOTAM:

Series A: 0821/24, 1188/24.

Series B: 2827/24, 3248/24, 3587/24.

Series C: -

Series D: 0299/24, 0300/24, 0337/24, 0338/24.

Series E: 0570/24, 0603/24, 0661/24, 0662/24, 0663/24, 0664/24, 0665/24, 0666/24, 0667/24,
0668/24, 0669/24, 0670/24, 0671/24, 0672/24, 0717/24, 0777/24, 0801/24.

Series H: 0264/24, 0265/24, 0376/24.

For comments, please contact: aip@lfv.se

- E N D / S L U T -

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ESSD 4-5	17 JUN 2021	ESGG 1-5	17 JUN 2021				

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ESGJ 4-18	28 NOV 2024	ESOK 1-4	26 JAN 2023	ESNQ 5-10	25 JAN 2024	ESCF 4-3	01 DEC 2022
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ESGJ 4-91	28 NOV 2024	ESOK 1-7	05 NOV 2020	ESNQ 5-14	25 JAN 2024	ESCF 5-3	10 AUG 2023
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ESGJ 5-2	28 NOV 2024	ESOK 1-9	02 NOV 2023	ESNQ 6-1	16 MAY 2024	ESCF 5-5	10 AUG 2023
ESGJ 5-3	28 NOV 2024	ESOK 1-10	23 MAR 2023			ESCF 5-7	10 AUG 2023
ESGJ 5-4	28 NOV 2024	ESOK 1-11	23 MAR 2023	Kramfors-Sollefteå ESNK		ESCF 5-8	10 AUG 2023
ESGJ 5-5	28 NOV 2024	ESOK 1-12	18 MAY 2023	ESNK 1-1	13 AUG 2020	ESCF 5-9	10 AUG 2023
ESGJ 5-6	28 NOV 2024	ESOK 2-1	28 NOV 2024	ESNK 1-2	13 AUG 2020	ESCF 5-10	10 AUG 2023
ESGJ 5-7	28 NOV 2024	ESOK 3-1	26 JAN 2023	ESNK 1-3	18 MAY 2023	ESCF 6-1	28 NOV 2024
ESGJ 5-9	28 NOV 2024	ESOK 4-1	21 MAR 2024	ESNK 1-4	28 JAN 2021		
ESGJ 5-10	28 NOV 2024	ESOK 4-3	18 MAY 2023	ESNK 1-5	28 JAN 2021		

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Linköping/Saab ESSL		ESPA 4-10	27 JAN 2022	ESMS 4-1	28 NOV 2024	ESSP 4-1	28 NOV 2024
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Ljungbyhed ESTL		ESNL 1-2	21 MAR 2024	ESMS 5-8	08 NOV 2018	ESUP 1-7	21 MAR 2024
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Luleå/Kallax ESPA				ESKM 5-8	21 MAR 2024	ESDF 3-1	13 JUN 2024
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ESPA 4-7	13 JUN 2024	ESMS 3-5	22 JUN 2017	ESSP 3-3	28 NOV 2024	ENS 1-7	08 AUG 2024
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Stockholm/Arlanda ESSA		ESSA 4-36	17 JUN 2021	ESSB 1-3	28 NOV 2024	ESKN 4-13	21 JUN 2018
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ESND 1-5	08 AUG 2024	ESKS 4-12	05 DEC 2019	ESNU 1-10	03 NOV 2022	ESPE 4-91	13 JUN 2024
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ESND 6-1	28 NOV 2024	ESST 1-6	08 AUG 2024	ESNU 4-23	05 NOV 2020	ESNV 5-1	10 AUG 2023
		ESST 1-7	08 AUG 2024	ESNU 4-24	18 JUN 2020	ESNV 5-2	10 AUG 2023
Sätenäs ESIB		ESST 1-8	08 AUG 2024	ESNU 4-25	18 JUN 2020	ESNV 5-3	29 MAR 2018
ESIB 1-1	23 MAR 2023	ESST 1-9	08 AUG 2024	ESNU 4-26	18 JUN 2020	ESNV 5-5	30 JAN 2020
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ESIB 4-91	21 MAR 2024	ESST 5-9	25 JAN 2024	ESNU 6-1	28 NOV 2024	ESSV 1-3	15 JUN 2023
ESIB 5-1	01 DEC 2022	ESST 5-10	25 JAN 2024			ESSV 1-4	13 JUN 2024
ESIB 5-2	01 DEC 2022	ESST 5-11	25 JAN 2024	Uppsala ESCM		ESSV 1-5	13 JUN 2024
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ESIB 5-4	01 DEC 2022			ESCM 1-2	23 MAR 2023	ESSV 1-7	28 NOV 2024
ESIB 5-5	01 DEC 2022	Trollhättan-Vänernsberg ESGT		ESCM 1-3	26 JAN 2023	ESSV 1-8	13 JUN 2024
ESIB 5-6	01 DEC 2022	ESGT 1-1	02 NOV 2023	ESCM 1-4	26 JAN 2023	ESSV 1-9	13 JUN 2024
ESIB 5-7	01 DEC 2022	ESGT 1-2	08 AUG 2024	ESCM 1-5	26 JAN 2023	ESSV 1-10	28 NOV 2024
ESIB 5-8	01 DEC 2022	ESGT 1-3	23 MAR 2023	ESCM 1-6	21 MAR 2024	ESSV 1-11	28 NOV 2024
ESIB 5-9	01 DEC 2022	ESGT 1-4	23 MAR 2023	ESCM 1-7	26 JAN 2023	ESSV 2-1	28 NOV 2024

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ESSV 2-3	13 JUN 2024	ESNZ 4-5	08 DEC 2016	ESOE 1-7	13 JUN 2024		
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ESSV 4-6	15 AUG 2019	ESNZ 4-13	08 DEC 2016	ESOE 4-1	08 AUG 2024		
ESSV 4-7	17 JUN 2021	ESNZ 4-15	08 DEC 2016	ESOE 4-3	15 JUN 2023		
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ESSV 4-91	13 JUN 2024	ESNZ 4-91	15 JUN 2023	ESOE 5-9	15 JUN 2023		
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				ESNO 1-6	17 JUN 2021		
Växjö/Kronoberg ESMX		Ängelholm ESTA		ESNO 1-7	11 AUG 2022		
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ESMX 1-7	23 MAR 2023	ESTA 1-7	02 NOV 2023	ESNO 5-2	07 NOV 2019		
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ESMX 5-4	23 MAR 2023	ESTA 4-5	04 NOV 2021	ESNO 5-13	16 AUG 2018		
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ESMX 5-7	23 MAR 2023	ESTA 4-8	18 JUN 2020	AD 3			
ESMX 5-9	23 MAR 2023	ESTA 4-91	28 NOV 2024	3.1-1	31 MAR 2016		
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		ESTA 5-4	04 NOV 2021				
Åre Östersund ESNZ		ESTA 5-5	27 JAN 2022				
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ESNZ 1-8	28 NOV 2024						
ESNZ 1-9	28 NOV 2024	Örebro ESOE					
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ESNZ 4-1	15 JUN 2023	ESOE 1-5	13 JUN 2024				
ESNZ 4-3	02 DEC 2021	ESOE 1-6	13 JUN 2024				

- 6.2.3.2 *Recommendation:* Not defined in EU regulations.
Less protective or partially implemented or not implemented.
- 6.2.4.2 *Standard:* For ATCO the requirements in Reg. (EU) 2015/340, Annex IV, Part ATCO.MED, are more restrictive: applicants shall be normal trichromates. **More Exacting or Exceeds.**
- 6.2.4.3 *Standard:* For aircrew regulations state that applicants shall pass the Ishihara test. For ATCO the requirements are more restrictive: pseudoisochromatic plate testing alone is not sufficient. Colour vision should be assessed using means to demonstrate normal trichromacy. **More Exacting or Exceeds.**
- 6.2.4.4.1 *Recommendation:* Not specified in EU regulations.
Less protective or partially implemented or not implemented.
- 6.2.5.5 *Recommendation:* Performed only when an instrument rating is to be added to licence.
Less protective or partially implemented or not implemented.
- 6.3.2.9.1 *Recommendation:* Only required on clinical or epidemiological indication.
Less protective or partially implemented or not implemented.
- 6.3.2.21.1 *Recommendation:* In Reg. (EU) 1178/2011, Annex IV, Part-MED, MED.B.045, Fit assessment permitted from start of pregnancy until end 26th week (restricted to multi crew operation).
Less protective or partially implemented or not implemented.
- 6.3.3.2.3 *Standard:* In Reg. (EU) 1178/2011, Annex IV, Part-MED, MED.B.070 and associated AMC, Ophthalmic reports requirement is dependent on refractive error limits rather than visual acuity limits.
Different in character or Other means of compliance.
- 6.4.2.6.2 *Recommendation:* Not implemented in the EU rules.
Less protective or partially implemented or not implemented.
- 6.4.2.21.1 *Recommendation:* In Reg. (EU) 1178/2011, Annex IV, Part-MED, MED.B.045, Fit assessment permitted from start of pregnancy until end 26th week. **Less protective or partially implemented or not implemented.**
- 6.4.3.2.3 *Recommendation:* Not required under EU regulations.
Less protective or partially implemented or not implemented.
- 6.4.3.5 *Standard:* AMC2 MED.B.070 to Reg. (EU) 1178/2011, Annex IV, Part-MED, states that visual field should be examined but does not define that the fields should be normal.
Different in character or Other means of compliance.
- 6.4.3.6 *Standard:* AMC2 MED.B.070 to Reg. (EU) 1178/2011, Annex IV, Part-MED, states that binocular function should be examined but does not define that the binocular function should be normal.
Different in character or Other means of compliance.
- 6.5.1.1 *Standard:* Not implemented for remote pilot licences, also see remark under 2.11.1.1.
Less protective or partially implemented or not implemented.
- 6.5.1.2 *Standard:* Not implemented for remote pilot licences, also see remark under 2.11.1.1.
Less protective or partially implemented or not implemented.
- 6.5.2.6.1 *Standard:* Reg. (EU) 2015/340, Annex IV, Part ATCO.MED, requires annual after age 40.
More Exacting or Exceeds.
- 6.5.2.20 *Standard:* In Reg. (EU) 2015/340, Annex IV, Part ATCO.MED this is not permitted for initial issue of class 3 certificate. **More Exacting or Exceeds.**
- 6.5.2.21.1 *Recommendation:* Not implemented in EU rules.
Less protective or partially implemented or not implemented.
- 6.5.3.2 *Standard:* In Reg. (EU) 2015/340, Annex IV, Part ATCO.MED it is stated that applicants with hypermetropia exceeding +5.0 dioptres, myopia exceeding -6 dioptres, an astigmatic component exceeding 3 dioptres or anisometropia exceeding 3 dioptres: shall have a corrected visual acuity of 6/6 or better in each eye.
More Exacting or Exceeds.
- 6.5.3.2.3 *Standard:* In Reg. (EU) 2015/340, Annex IV, Part ATCO.MED is stated that all initial Medical assessments include a comprehensive eye examination which is repeated periodically depending on the refractive error and the functional performance of the eye. **Different in character or Other means of compliance.**

- Chapter 1 The definitions
Definitions *Current flight plan, Filed flight plan, Flight plan and Repetitive flight plan* according Regulation (EU) No 923/2012.
- 3.2.2 b) Right-of-way.
An aircraft that is aware that the manoeuvrability of another aircraft is impaired shall give way to that aircraft.
- 3.2.3.2 b) Lights to be displayed by aircraft.
Unless stationary and otherwise adequately illuminated, all aircraft on the movement area of an aerodrome shall display lights intended to indicate the extremities of their structure, as far as practicable;
- 3.2.5 Operation on and in the vicinity of an aerodrome.
An aircraft operated on or in the vicinity of an aerodrome shall:
- c) except for balloons, make all turns to the left, when approaching for a landing and after taking off, unless otherwise indicated, or instructed by ATC;
 - d) except for balloons, land and take off into the wind unless safety, the runway configuration, or air traffic considerations determine that a different direction is preferable.
- When AFIS is provided, right turns are accepted if they cause no hazard to others and the intention is notified in advance to the AFIS unit.
If equipped with radio and in the vicinity of an aerodrome, the aircraft shall:
- a) when a AFIS unit is available; maintain continuous air-ground voice communication watch on the appropriate communication channel of, and report its position as necessary to, the air traffic services unit providing flight information service. (see 4.9, 5.3.2 and 5.3.3);
 - b) if the ATS is closed; stand by on the ATS frequency and transmit blind the position and the intention;
 - c) when ATS is not provided at the aerodrome; stand by on a published frequency or, if not published, on 123,450 MHz and transmit blind information of use to others, like position, level and intention.
- In published VFR holding IAS is limited to maximum 140 kt. If not possible ATS shall be advised.
The published holding pattern shall be followed.
- 3.2.2.4 i) Overtaking.
A sailplane overtaking another sailplane may alter its course to the right or to the left.
- 3.3.1.2 Submission of a flight plan.
A flight plan shall also be submitted for:
- a) VFR and IFR flights planned to operate at night, if leaving the vicinity of an aerodrome;
 - b) IFR flights in airspace class G flying above the highest of 5 000 ft AMSL or 3 000 ft AGL;
 - c) VFR and IFR flights which will affect a traffic information zone and/or a traffic information area.
 - d) Any flight across international borders, unless otherwise prescribed by the States concerned.
- 3.3.1.3 SERA.4001(c) A flight plan shall be submitted, before departure, to an air traffic services reporting office or, during flight, transmitted to the appropriate air traffic services unit or air-ground control radio station, unless arrangements have been made for submission of repetitive flight plans.
- 3.8 Interception.
The words 'in distress' are not included in the national regulation, thus enlarging the scope of escort missions to any type of flight requesting such service.
Furthermore the provisions contained in Appendix 2 Parts 1.1 to 1.3 inclusive as well as those found in Attachment A, are not contained in national regulation.
- 4.4.6 Visual Flight Rules.
Except when necessary for take-off or landing, or except by permission from the competent authority, a VFR flight shall not be flown:
- a) over the congested areas of cities, towns or settlements or over an open-air assembly of persons at a height less than 300 m (1 000 ft) above the highest obstacle within a radius of 600 m from the aircraft;
 - b) elsewhere than as specified in a), at a height less than 150 m (500 ft) above the ground or water, or 150 m (500 ft) above the highest obstacle within a radius of 150 m (500 ft) from the aircraft.

ANNEX 3 – METEOROLOGY

(Twentieth Edition, July 2018, amd. 81)

- Chapter 5 Competent authorities shall prescribe as necessary other conditions which shall be reported by all aircraft when encountered or observed.

ANNEX 4 – AERONAUTICAL CHARTS

(Eleventh Edition, July 2009, amd. 62)

- 2.4.4 Requirement concerning Symbol 121 Reporting and Fly-by/Flyover functionality is not shown on all charts as required in 2.4.2 and 2.4.3.

- 9.9.4.1.1 a) 6) Minimum obstacle clearance altitudes, along the route or route segment are not shown on standard departure charts.
- 9.9.4.1.1 h) Designation of the navigation specification(s) including any limitations is not shown on standard departure charts.
- 10.8.1 Bearings and tracks provided as true values for RNAV segments are not shown on standard arrival charts.
- 10.9.4.1.1 a) 6) Minimum obstacle clearance altitudes along the route or route segment and altitudes required by the procedures are not shown on standard arrival charts.
- 10.9.4.1.1 g) Designation of the navigation specification(s) including any limitations is not shown on standard arrivals charts.

ANNEX 5 – UNITS OF MEASUREMENT TO BE USED IN AIR AND GROUND OPERATIONS
(Fifth Edition, July 2010)

No differences.

ANNEX 6 - OPERATION OF AIRCRAFT

ANNEX 6 Part I

(Twelfth Edition, July 2022, including amd. 48)

- 3.3.1 *Recommendation:* The European rules on Air Operations Reg. (EU) 965/2012 ORO.AOC.130 requires that an operator establish and maintain a flight data analysis programme as part of its safety management system only when operating aeroplanes with a certificated take-off mass in excess of 27 000 kg..
Less protective or partially implemented or not implemented.
- 3.3.3. *Standard:* The European rules on Air Operations Reg. (EU) 965/2012 ORO.AOC.130 requires in addition that the FDM programme is non-punitive, regardless of the date.
More exacting or exceeds.
- 3.5.1 *Standard:* The European rules on Air Operations for aircraft tracking is only applicable to some categories of aeroplanes. See Regulation (EU) 965/2012 CAT.GEN.MPA.205 and supporting EASA AMC/GM.
Less protective or partially implemented or not implemented.
- 3.5.2 *Recommendation:* The European rules on Air Operations for aircraft tracking applies only to aeroplanes which are equipped with a capability to provide a position additional to the secondary surveillance radar transponder or which are first issued with an individual on or after 16 December 2018. See Regulation (EU) 965/2012 ORO.GEN.110 and CAT.GEN.MPA.205 and supporting EASA AMC/GM.
Less protective or partially implemented or not implemented.
- 3.5.3 *Standard:* The European rules on Air Operations for aircraft tracking applies only to aeroplanes which are equipped with a capability to provide a position additional to the secondary surveillance radar transponder or which are first issued with an individual on or after 16 December 2018. In addition the provisions in Regulation (EU) 965/2012 CAT.GEN.MPA.205 includes aeroplanes with a MCTOM of more than 27 000 kg and a MOPSC of more than 19 as well as aeroplanes with a MCTOM of over 45 500 kg whatever their MOPSC. The provisions also requires tracking everywhere where ATC surveillance cannot track the aeroplane, not just in oceanic areas. **Different in character or Other means of compliance.**
- 3.5.4 *Standard:* The European rules on Air Operations for aircraft tracking introduces some flexibility and variations to automated reporting intervals in AMC1 and AMC2 CAT.GEN.MPA.205.
Different in character or Other means of compliance.
- 4.1.2 *Standard:* The provisions in the European rules on Air Operations ORO.GEN.200 (a)(3) addresses the safety risk assessment without being so specific. Guidelines on the specific risk assessment for conflict zones will be added through rulemaking action (EASA RMT.0392).
Less protective or partially implemented or not implemented.
- 4.2.1.3.1 *Standard:* The European rules on Air Operations Reg. (EU) 965/2012 ORO.GEN.205 prescribe that the operator remains responsible that the contracted services comply with the applicable requirements and that the aviation safety hazards associated with contracted services or products are considered by the operator's management system. However, it is not specified in the European rules on air operations that the operator shall develop policies and procedures for third parties.
Different in character or Other means of compliance.
- 4.2.1.5 *Standard:* The European rules on Air Operations Reg. (EU) 965/2012 Appendix I to Part-ARO; ORO.AOC.100 stipulates that The AOC has no expiration date. The AOC is issued for an unlimited duration, but its validity is confirmed as per compliance with ORO.GEN.135. Several other entries requiring prior approval by the Competent Authority have been added to the EU Operations Specifications.
Different in character or Other means of compliance.

- 4.2.1.7 *Standard:* The European rules on Air Operations Reg. (EU) 965/2012 Part-ARO Appendices I & II has several other entries where prior approval by the Competent Authority have been added to EU Operations Specifications in Appendix II. The AOC has no validity date.
Different in character or Other means of compliance.
- 4.2.2.1 *Standard:* The EU regulation Reg. (EU) 452/2014 PART-TCO: TCO.200 (a)(1) also requires compliance with ICAO Annexes 1, 2, 8, and 18. Additionally, compliance with the mitigating measures accepted by EASA in accordance with ART.200(d); the relevant requirements of Part-TCO; and the applicable Union rules of the air.
More Exacting or Exceeds.
- 4.2.11.2 *Standard:* Art. 35 pt. 3 Protection to air crew Council directive 96/29 EURATOM. Swedish Radiation Safety Authority regulation SSMFS 2018:11 including guidelines for Radiological Protection from Cosmic Radiation in Aviation. A commercial operator shall maintain records for crew members. **More Exacting or Exceeds.**
- 4.3.1
4.3.3.1 *Standard:* In the basic regulation Reg. (EU) 2018/1139 Annex V pt. 2.(c) and The European Rules of Air Operations Reg. (EU) 965/2012: CAT.OP.MPA.175 provide an alleviation stating that an operational flight plan is not required for operations under VFR of other-than-complex motor-powered aeroplane taking off and landing at the same aerodrome or operating site.
Less protective or partially implemented or not implemented.
- 4.3.4.1.2 *Standard:* The European rules on Air Operations do not yet address ICAO EDTO provisions. Sweden uses ETOPS provisions as described in the European rules on Air Operations Reg. (EU) 965/2012 CAT.OP.MPA.180 (a). Sweden is awaiting future amendments to the European rules on Air Operations regarding EDTO. No differences are expected at the end of 2025.
Less protective or partially implemented or not implemented.
- 4.3.4.1.3 *Standard:* The European rules on Air Operations requires a period commencing one hour before and ending one hour after the estimated time of arrival at the aerodrome. **More Exacting or Exceeds.**
- 4.3.4.3.1 *Standard:* The European rules on Air Operations requires a period commencing one hour before and ending one hour after the estimated time of arrival at the aerodrome. **More Exacting or Exceeds.**
- 4.3.4.4 *Standard:* According to EU provisions on Air Operations an operator need to establish a system to collect relevant data for a period of 2 years of continuous operations before applying for an Individual Fuel Scheme. Moreover, it is mandatory to implement an effective continuous reporting system to the competent authority on the safety performance and regulatory compliance. In addition, EU provisions adds to the elements minimum to take into account for determining the extent of the deviation, the type of ATS provided and characteristics and procedures of the ATFM and of the airspace management. **More Exacting or Exceeds.**
- 4.3.6.3 *Standard:* Partially implemented through Reg. (EU) 965/2012. The European rules on Air Operations do not yet address ICAO EDTO provisions. No differences are expected at the end of 2025.
Less protective or partially implemented or not implemented.
- 4.3.6.4 *Recommendation:* The European rules on Air Operations requires a final reserve fuel value for each estimated mass and every flight. **More Exacting or Exceeds**
- 4.3.8.1 *Standard:* The European rules on Air Operations Reg. (EU) 965/2012 CAT.OP.MPA.200 allows refuelling with passengers on board except for Avgas type fuels or a mixture of these types of fuel.
More Exacting or Exceeds.
- 4.3.9.2 *Standard:* The European rules on Air Operations Reg. (EU) 965/2012 CAT.IDE.A.235 has additional and more specific requirements on the quantities of oxygen and the percentage of passengers. Also specific requirements on automatically deployable masks for aeroplanes certified to fly above 25.000 ft.
More exacting or exceeds.
- 4.3.10.1 *Recommendation:* Time capability of cargo compartment fire suppression is not yet addressed in European rules on Air Operations. Sweden is awaiting future amendments to the European rules on Air Operations. No differences are expected at the end of 2025. **Less protective or partially implemented or not implemented.**
- 4.6.1
4.6.2 *Standard:* The European rules on Air Operations do not give any formal status to flight operations officers/flight dispatchers as European rules doesn't require licensing of operations officers/flight dispatchers. Sweden requires an operator to ensure that the operations manual contains instructions and information necessary for operations personnel to perform their duty including training for those other than crew members. The European rules on Air Operations will be further developed for alignment with ICAO provisions which is expected to be in force by the end of 2025.
Less protective or partially implemented or not implemented.

- 4.7.1.1 *Standard:* The European rules on Air Operations do not yet address ICAO EDTO provisions. Sweden is awaiting future amendments to the European rules on Air Operations. No differences are expected at the end of 2025. **Less protective or partially implemented or not implemented.**
- 4.7.1.2
- 4.7.2.1
- 4.7.2.2
- 4.7.2.3
- 4.7.2.4
- 4.7.2.6
- 4.9.2 *Standard:* Partially implemented through the European rules on Air Operations Reg. (EU) 965/2012 ORO.FC.200 (c) ORO.FC.202. The European rules do not have provisions for maximum certified take-off mass (MCTOM). However there is a limitation in the number of passengers to 9 or less.
- 5.1.1 *Standard:* In the European rules on Air Operations, the responsibilities of the State of the Registry are assumed by the State of the Operator instead. **Different in character or Other means of compliance.**
- 5.2.4 *Standard:* In the European rules on Air Operations, the responsibilities of the State of the Registry are assumed by the State of the Operator instead. **Different in character or Other means of compliance.**
- 5.2.10 *Standard:* The European rules on Air Operations provide stricter and more detailed requirements. **More Exacting or Exceeds**
- 5.4.1 *Standard:* The European rules on Air Operations require the operators to ensure that the routes and cruising altitudes are selected so as to have a landing site within gliding range. **More Exacting or Exceeds**
- 6.1.5.1 *Standard:* The European Rules on Air Operations is not aligned with the new ICAO provisions on aeroplanes operated under Article 83 bis agreement. Not implemented.
- 6.1.5.2 **Less protective or partially implemented or not implemented.**
- 6.1.5.3
- 6.1.5.4 *Recommendation:* The European Rules on Air Operations is not aligned with the new ICAO provisions on aeroplanes operated under Article 83 bis agreement. Not implemented. **Less protective or partially implemented or not implemented.**
- 6.2.2.1 *Standard:* Partially implemented in the European rules. Only for Large Aeroplanes: Initial CofA after 18 Feb 2020 (lavatory) and 18 May 2019 (portable). **Less protective or partially implemented or not implemented.**
- 6.3.1.1.1 *Standard:* Partially implemented in the European Rules of Air Operation. Reg. (EU) 965/2012: CAT.IDE.A.190 pt. (a)(3) and (b)(5); CAT.IDE.A.191 pt.(b); AMC1 CAT.IDE.A.191. For those light aeroplanes first issued with an individual CofA before 5 September 2022, only those that are multi-engine turbine powered and have a MOPSC of more than 9 are required to carry a flight recorder. In addition, turbine-engined aeroplanes with a MCTOM of less than 2 250 kg and a MOPSC of 9 or less are not required to carry a flight recorder, whatever their date of issuance of the individual CofA. If an ADRS is used, there is currently no EU requirement addressing the reliability of its power source. **Less protective or partially implemented or not implemented.**
- 6.3.1.1.2 *Recommendation:* Partially implemented in the European Rules of Air Operation Reg. (EU) 965/2012: CAT.IDE.A.191 pt. (b); AMC1 CAT.IDE.A.191. **Less protective or partially implemented or not implemented.**
- 6.3.1.1.3 *Standard:* The European rules on Air Operations regarding specific flight recorders apply to aeroplanes with an individual CofA after 1 June 1990. **Different in character or Other means of compliance.**
- 6.3.1.1.4 *Standard:* The European rules on Air Operations regarding specific flight recorders CAT.IDE.A.190 (a)(1) applies to aeroplanes with an individual CofA after 1 June 1990 and MCTOM of more than 5 700 kg. CAT.IDE.A.190 (a)(2) applies to turbine-engined aeroplanes with an individual CofA before 1 June 1990 and MCTOM of more than 5 700 kg. **Different in character or Other means of compliance.**
- 6.3.1.1.5 *Recommendation:* The European rules on Air Operations on specific flight recorders are not fully aligned with ICAO provisions. CAT.IDE.A.190 (a)(3) applies to aeroplanes with an individual CofA after 1 April 1998. **Less protective or partially implemented or not implemented.**
- 6.3.1.1.7 *Recommendation:* The European rules on Air Operations Reg. (EU) 965/2012 CAT.IDE.A.190 (a) captures all turbine-engined aeroplanes with an individual CofA before 1 June 1990 and MCTOM of more than 5 700 kg. The list of parameters is given in AMC6 CAT.IDE.A.190 and it contains the first 9 parameters of table A8-1. **More Exacting or Exceeds.**

- 6.3.1.1.8 *Standard:* The European rules on Air Operations applies to turbine-engined aeroplanes with an MCTOM of over 5700 kg and first issued with an individual CofA before 1 June 1990 whatever the date of prototype certification. **More Exacting or Exceeds.**
- 6.3.1.1.9 *Recommendation:* According to AMC6 CAT.IDE.A.190 the FDR shall record 16 parameters if installed in aeroplanes with an MCTOM exceeding 27 000 kg that are of a type first type certified after 30 September 1969 except Ground spoiler position and/or speed brake selection, Outside air temperature (OAT) or total air temperature and Autopilot operating modes, autothrottle and AFCS, systems engagement status and operating modes when any of the next conditions are met:
(1) sufficient capacity is not available on a flight recorder system; (2) the sensor is not readily available; and
(3) a change is required in the equipment that generates the data. All other parameters exceed those recommended in the SARP. **More Exacting or Exceeds.**
- 6.3.1.1.10 *Standard:* The European rules on Air Operations on specific flight recorders are not fully aligned with ICAO provisions. Sweden is awaiting future amendments to the European rules on Air Operations. **Less protective or partially implemented or not implemented.**
- 6.3.1.1.11 *Standard:* CAT.IDE.A.190 (a)(1) applies to all aeroplanes with a MCTOM of over 5700 kg and first issued with an individual CofA on or after 1 June 1990. **More Exacting or Exceeds.**
- 6.3.1.2 *Standard:* Partially implemented. The use of magnetic tape for the FDR is not forbidden.
- 6.3.1.3 *Standard:* The European rules on Air Operations require longer recording durations. **More Exacting or Exceeds.**
- 6.3.2.1.1 *Standard:* The European rules on Air Operations regarding specific flight recorders do not fully address CVR for light aircraft. Partially implemented. The scope of CAT.IDE.A.185(a)(2) is limited to multi-engine turbine powered aeroplanes with a MCTOM of less than 5 700 kg. The scope of CAT.IDE.A.191 covers aircraft with an individual CofA first issued on or after 5/09/2022; no retrofit. Sweden is awaiting future amendments to the European rules on Air Operations. **Less protective or partially implemented or not implemented.**
- 6.3.2.1.2 *Recommendation:* The European rules on Air Operations regarding specific flight recorders do not fully address CVR for light aircraft. Sweden is awaiting future amendments to the European rules on Air Operations. **Less protective or partially implemented or not implemented**
- 6.3.2.1.3 *Standard:* The European rules on Air Operations is applicable to all aeroplanes with a MCTOM of more than 5700 kg, irrespective of the date of first issuance of the CofA. **More Exacting or Exceeds.**
- 6.3.2.1.4 *Standard:* The European rules on Air Operations regarding CVR applies to all aeroplanes with a MCTOM exceeding 5700 kg whatever the date of delivery of the individual CofA **More Exacting or Exceeds.**
- 6.3.2.1.5 *Recommendation:* The European rules on Air Operations CAT.IDE.A.185 (a) (1) Reg. (EU) 965/2012 states that it applies to all aeroplanes with a MCTOM exceeding 5 700 kg, be they turbine-engined or not. CAT.IDE.A.185 (a) (1) applies whatever the date of certification of the prototype. **More Exacting or Exceeds.**
- 6.3.2.4.1 *Standard:* The European rules on Air Operations on specific flight recorders are not fully aligned with ICAO provisions. Sweden is awaiting future European rules on Air Operations. **Less protective or partially implemented or not implemented.**
- 6.3.2.4.2 *Standard:* The European rules on Air Operations on specific flight recorders are not fully aligned with ICAO provisions. Sweden is awaiting future European rules on Air Operations. **Less protective or partially implemented or not implemented.**
- 6.3.2.4.3 *Recommendation:* The European rules on Air Operations on specific flight recorders are not fully aligned with ICAO provisions. Sweden is awaiting future European rules on Air Operations. **Less protective or partially implemented or not implemented.**
- 6.3.3.1.1 *Standard:* The European rules on Air Operations require recording of data-link communications for aeroplanes issued with an individual CofA on or after 08 April 2014. **More Exacting or Exceeds.**
- 6.3.3.1.2 *Standard:* The European rules on Air Operations on specific flight recorders are not fully aligned with ICAO provisions regarding retrofit of data-link communication recording. Sweden is awaiting future amendments to the European rules on Air Operations. **Less protective or partially implemented or not implemented.**

- 6.3.3.1.3 *Recommendation:* The European Rules on Air Operation is not aligned with the new ICAO provision on flight recorders. **Less protective or partially implemented or not implemented.**
- 6.3.4 *Standards and Recommendations:* Currently the European rules on Air Operations does not contain any provisions on "Flight crew-machine interface recording". Sweden is awaiting future amendments to the European rules on Air Operations. **Less protective or partially implemented or not implemented.**
- 6.3.4.1.1
- 6.3.4.1.2
- 6.3.4.2 *Standard:* Not implemented in the European Rules on Air Operations. **Less protective or partially implemented or not implemented.**
- 6.3.4.3 *Standard:* Not implemented in the European Rules on Air Operations. **Less protective or partially implemented or not implemented.**
- 6.3.5.4 *Recommendation:* The European rules on Air Operations on specific flight recorders are not fully aligned with ICAO provisions regarding FDR documentation in electronic format. Sweden is awaiting future amendments to the European rules on Air Operations. **Less protective or partially implemented or not implemented.**
- 6.3.5.5.1 *Recommendation:* The European rules on Air Operations on specific flight recorders are not fully aligned with ICAO provisions regarding combination recorders. Sweden is awaiting future European rules on Air Operations. **Less protective or partially implemented or not implemented.**
- 6.3.5.5.2 *Standard:* The European rules on Air Operations on specific flight recorders are not fully aligned with ICAO provisions regarding combination recorders. The requirement of a dual combination recorder configuration for aeroplanes with an MCTOM exceeding 15000 kg is not implemented. The use of two combination recorders is an alternative to the use of a separate CVR and FDR for aeroplanes with a MCTOM>5700kg regardless of the date of application for their type certificate.
Sweden is awaiting future amendments to the European rules on Air Operations. **Less protective or partially implemented or not implemented.**
- 6.3.6.1 *Standard:* The European rules on Air Operations are not fully aligned with ICAO provisions regarding flight recorder data recovery. Different in character.CAT.GEN.MPA.210 is also applicable to aeroplanes with MCTOM of over 45 500 kg and less than 19 passengers. CAT.GEN.MPA.210 is applicable to every aeroplane with a CofA first issued on or after 1 January 2024. **Different in character or Other means of compliance.**
- 6.3.6.2 *Standard:* The European rules on Air Operations are not fully aligned with ICAO provisions regarding flight recorder data recovery. Different in character.CAT.GEN.MPA.210 is also applicable to aeroplanes with MCTOM of over 45 500 kg and less than 19 passengers. CAT.GEN.MPA.210 is applicable to every aeroplane with a CofA first issued on or after 1 January 2024. **Different in character or Other means of compliance.**
- 6.4.1 *Standard:* The European rules on Air Operations Reg. (EU) 965/2012 CAT.IDE.A:125 prescribes additional equipment. **More Exacting or Exceeds.**
- 6.4.2 *Standard:* Partially implemented. Reg (EU) 965/2012 mandates the carriage of one barometric altitude measure device, and TWO devices when two pilots are required for the operation. **Less protective or partially implemented or not implemented.**
- 6.5.2.1 *Standard:* The European rules on Air Operations are not fully aligned with ICAO provisions regarding the carriage of life jackets in Reg. (EU) 965/2012 CAT.IDE.A.285. Carriage of life jackets when flying en route over water beyond gliding distance from the shore, in the case of all other landplanes (not operated in accordance with 5.2.9 or 5.2.10) not implemented.
Sweden is awaiting future amendments to the European rules on Air Operations. **Less protective or partially implemented or not implemented.**
- 6.5.3.1 *Standard:* The European rules on Air Operations are not fully aligned with ICAO provisions. The requirement to carry an 8.8 kHz underwater locating device (ULD) applies to aeroplanes with a MCTOM of more than 27000 kg and with an MOPSC of more than 19 and all aeroplanes with an MCTOM of more than 45500 kg. The ULD might not be fitted if the aeroplane is equipped with robust and automatic means to accurately determine, following an accident where the aeroplane is severely damaged, the location of the point of end of flight. **Less protective or partially implemented or not implemented.**
- 6.7.3 *Standard:* The European rules on Air Operations Reg. (EU) 965/2012, CAT.IDE.A.235(b)(4) requires a device to provide a warning indication to the flight crew of any loss of pressurisation for all pressurised aeroplanes operated at pressure altitudes above 25 000 ft. **More Exacting or Exceeds.**

- 6.7.6 *Recommendation:* The European rules on Air Operations are not fully aligned with ICAO provisions.
Less protective or partially implemented or not implemented.
- 6.10 *Standard:* The European rules on Air Operations require portable lights also during daylight.
More Exacting or Exceeds.
- 6.11.1 *Recommendation:* The European rules on Air Operations Reg. (EU) 965/2012 CAT.IDE.A.160 also requires weather detecting equipment for non-pressurised aeroplanes with an MCTOM of more than 5 700 kg; and non-pressurised aeroplanes with an MOPSC of more than nine. **More Exacting or Exceeds.**
- 6.12 *Standard:* Council directive 2013/59 EURATOM. Art 35 Protection to air crew. Act on radiation (2018:396), Ordinance on radiation (2018:506). Swedish Radiation Safety Authority regulation SSMFS (2018:11) and guidelines to the said regulation. According to 4§ SSMFS 2018:11 and guidelines alternative methods could be used. **Different in character or Other means of compliance.**
- 6.15.3 *Recommendation:* CAT.IDE.A.150 para (c) it is only applicable to turbine-powered aeroplanes for which the CofA was first issued after 1 January 2019 and ICAO's SARP recommends it for all turbine-engined aeroplanes regardless the date of issuance of their CofA.
Less protective or partially implemented or not implemented.
- 6.18.1 *Standard:* The European rules on Air Operations are not fully aligned with ICAO provision. The European provisions (CAT.GEN.MPA.210) requires robust and automatic means to accurately locate the point of end of flight, while transmitting a position every minute is one possible solution to address. Furthermore they are only applicable to aeroplanes with an MCTOM of more than 27 000 kg and an MOPSC of more than 19 or an MCTOM of more than 45 500 kg. Furthermore the provisions are applicable to aeroplanes first issued with an individual CofA on or after 1 January 2024. **Less protective or partially implemented or not implemented.**
- 6.18.2 *Recommendation:* The European rules on Air Operations are not aligned with ICAO provisions.
Less protective or partially implemented or not implemented.
- 6.18.3 *Standard:* The European rules on Air Operations are not yet fully aligned with ICAO provisions on operator responsibility to transmit position information when the aircraft is in distress. Reg. (EU) 965/2012 CAT.GEN.MPA.210. In the case of an ELT-based solution (in flight triggered ELT or automatic deployable flight recorder) the ELT signal is detected by COSPAS/SARSAT satellites and then it is directly transmitted to the ground and dispatched to the competent rescue coordination centre.
Different in character or other means of compliance.
- 6.19.2 *Recommendation:* European rules requires mandatory use of ACAS II SW version 7.1 for aeroplanes with an MCTOM of more than 5700 Kg or more than 19 passengers. For aeroplanes outside this category ACAS is not mandatory. If they voluntarily install ACAS, the equipment shall be ACAS II version 7.1.
Less protective or partially implemented or not implemented.
- 6.20.2 *Standard:* The European rules on Air Operations Reg. (EU) 965/2012 CAT.IDE.A.350 are not fully aligned with
6.20.3 ICAO provisions regarding resolution of 7.62 m for the pressure altitude reporting transponder. Sweden is awaiting future amendments to the European rules on Air Operations.
Less protective or partially implemented or not implemented.
- 6.22.1 *Recommendation:* The European rules on Air Operations are not fully aligned with ICAO provisions regarding
6.22.2 forward looking wind shear warning system. **Less protective or partially implemented or not implemented.**
- 7.2.9 *Standard:* The European provisions requires monitoring of height keeping performance but, but not in a specific interval. **Less protective or partially implemented or not implemented.**
- 8.2.1 *Standard:* The European rules on aeroplane maintenance are not fully aligned with ICAO provisions on human factor principles. Sweden is awaiting future amendments to the European rules on Continuing Airworthiness.
Less protective or partially implemented or not implemented.
- 8.2.3 *Standard:* Partially implemented. The European rules on aeroplane maintenance are not fully aligned with ICAO provisions. EU requirements do not explicitly describe that 'Copies of all amendments shall be furnished promptly to all organizations or persons to whom the manual has been issued.'
Less protective or partially implemented or not implemented.
- 8.2.4 *Standard:* The European rules on aeroplane maintenance are not fully aligned with ICAO provisions.
Different in character or Other means of compliance.

- 8.3.1 *Standard:* The European rules on continuing airworthiness are not fully aligned with ICAO provisions on human factor principles. Sweden is awaiting future amendments to the European rules on aeroplane maintenance. **Less protective or partially implemented or not implemented.**
- 8.3.2 *Standard:* The European rules on continuing airworthiness are not fully aligned with ICAO provisions. EU provisions do not explicitly describe that 'Copies of all amendments shall be furnished promptly to all organizations or persons to whom the manual has been issued. **Less protective or partially implemented or not implemented.**
- 8.4.2 *Standard:* The European rules on Continuing Airworthiness prescribe retaining periods exceeding limits in ICAO provisions. **More exacting or exceeds.**
- 8.5.2 *Standard:* The European provisions on continuing airworthiness in Reg. (EU) 1321/2014 Part M is applicable for aeroplanes with an MCTOM above 2730 kg, while Part ML applies to 2730 kg or below. This means that the mass range between 2730 and 5700 is obliged to comply with a higher standard. **More exacting or exceeds.**
- 8.8.2 *Standard:* The European rules on Continuing Airworthiness and on aeroplane maintenance are not fully aligned with ICAO provisions. Sweden is awaiting future amendments. **Less protective or partially implemented or not implemented.**
- 8.8.3 *Standard:* Not implemented. **Less protective or partially implemented or not implemented.**
- 9.1.4 *Standard:* Provisions for flight navigator is not within the scope of the European rules on Air Operations. **Less protective or partially implemented or not implemented.**
- 9.2 *Standard:* The European rules on Air Operation Reg. (EU) 965/2012 ORO.FC.130 (a) establishes provisions for each type and variant. ORO.GEN.110(h) requires also the use of a checklist. **More exacting or exceeds.**
- 9.4.1.1 *Standard:* For single pilot IFR, the European rules on Air Operations also requires 5 IFR flights including 3 IFR approaches in the single pilot role under Reg. (EU) 965/2012 ORO.FC.202. **More exacting or exceeds.**
- 9.4.2.1 *Standard:* In addition to the requirements in 9.4.2.1 the European rules also requires at least three sectors. **More exacting or exceeds.**
- 9.4.3.3 *Standard:* The European rules on Air Operations have implemented provisions on categorisation of aerodromes (A, B, C) depending on how demanding/not demanding the aerodrome is. Rules achieve same safety level even though the classification is slightly different. For reference see Reg. (EU) 965/2012, ORO.FC.105 (b)(2)&(c), AMC1 ORO.FC.105(b)(2);(c) pts. (a), (b) & (c), AMC2 ORO.FC.105(c) pts. (a) & (b). **Different in character or Other means of compliance.**
- 9.4.4.1 *Standard:* The European rules on Air Operations allows an Alternative Training and Qualification Program (ATQP) as an alternative to the prescriptive training requirements. Even though checking intervals can be extended, the same or even higher level needs to be achieved. For operations under VFR by day of performance class B aeroplanes conducted during seasons not longer than 8 consecutive months one OPC is sufficient. **Different in character or Other means of compliance.**
- 9.4.5.2 *Recommendation:* For IFR operations, the pilot shall have accumulated at least 50 hours of IFR flight time instead of the 25 hours specified in paragraph (b). **More exacting or exceeds.**
- 10.1 *Standard:* The European rules on Air Operations does not give any formal status to flight operations officers/flight dispatchers as European rules on Air Operation doesn't require licensing of operations officers/flight dispatchers. The European rules on Air Operations requires an operator to ensure that the operations manual contains instructions and information necessary for operations personnel to perform their duty including training for those other than crew members. **Less protective or partially implemented or not implemented.**
- 10.2
- 10.3 *Standard:* The European rules on Air Operations do not give any formal status to flight operations officers/flight dispatchers as European rules doesn't require licensing of operations officers/flight dispatchers. The European rules on Air Operations requires an operator to ensure that the operations manual contains instructions and information necessary for operations personnel to perform their duty including training for those other than crew members. Sweden is awaiting future amendments to the European rules on Air Operations through RMT.0392. **Less protective or partially implemented or not implemented.**

- 10.4 *Recommendation:* The European rules on Air Operations do not give any formal status to flight operations officers/flight dispatchers as European rules doesn't require licensing of operations officers/flight dispatchers. Sweden requires an operator to ensure that the operations manual contains instructions and information necessary for operations personnel to perform their duty including training for those other than crew members. **Less protective or partially implemented or not implemented.**
- 10.5
- 11.4.3 *Recommendation:* The European rules on Air Operations only requires a 3 months storage period. Sweden is awaiting future amendments to the European rules on Air Operations. **Less protective or partially implemented or not implemented.**
- 11.6 *Standard:* The European rules on Air Operations Reg. (EU) 965/2012 CAT.GEN.MPA.195 requires preservation of original recorded data after an accident or serious incident or an occurrence identified by the investigating authority. In the absence of indication from the investigating authority, the operator is not required to preserve the data for more than 60 days after the accident or serious incident. AMC3 ORO.MLR.100 lists the minimum information to be contained by the operations manual. According to AMC3 ORO.MLR.100, Part A, section 11 of the operations manual should contain procedures for the preservation of recordings. **Less protective or partially implemented or not implemented.**
- 12.4 *Standard:* In addition to the completion of initial training required by the Air Ops Regulation, the Aircrew Regulation also requires the issuing of a cabin crew attestation to each cabin crew member who will be operating in CAT operations. This attestation is considered valid as long as the holder acts as cabin crew member and completes the other training required by the Air Ops Regulation. If a holder stops operating during more than 5 years, his/her attestation becomes invalid and initial training has to be completed again. **More Exacting or Exceeds.**
- 13.2.4 *Recommendation:* The European Provisions on Air Operations ORO.SEC.100 regarding approved secure flight crew compartment door is only applicable to aeroplanes with 1) an MCTOM that exceeds 54 500 kg; aeroplanes with 2) an MCTOM that exceeds 45 500 kg and have an MOPSC of more than 19; or (3) aeroplanes with an MOPSC of more than 60. **Less protective or partially implemented or not implemented.**
- 15.1 *Standard:* The European rules on Air Operations are not fully aligned with ICAO provisions. Sweden is awaiting future amendments. Rulemaking activities has started. No difference is expected after end of 2025. See EASA NPA 2022-11. **Less protective or partially implemented or not implemented.**
- 15.2 *Standard:* The European rules on Air Operations are not fully aligned with ICAO provisions. Sweden is awaiting future amendments. Rulemaking activities has started. No difference is expected after end of 2025. See EASA NPA 2022-11. **Less protective or partially implemented or not implemented.**

ANNEX 6 Part II

(Eleventh Edition, July 2022 including amd. 40)

- 1.1 *Aerial work:* Search and rescue operations are not included in Specialised Operations (SPO) in the EU system. They are covered at national level. The term 'specialised operations' is used and defined instead of 'aerial work'. **Different in character or other means of compliance.**
- 1.1 *Aerodrome operating minima:* The EU rules are using the old approach classification. Rulemaking Task RMT.0379 will transpose the ICAO def. and concepts (2D, 3D) into R. (EU) 965/2012. **Different in character or other means of compliance.**
- 1.1 *Combined vision system (CVS):* Term not used in R. (EU) 965/2012. This definition will be inserted in R965 through RMT.0379 (AWO). **Less protective or partially implemented or not implemented.**
- 1.1 *Operating base:* The concept of 'principal place of business' is used in the Air Ops rules. It is defined in Annex I of R. (EU) 965/2012. GM18 to Annex I provides more explanations on the use and meaning of this term for non-commercial operations. **Different in character or other means of compliance.**
- 1.1 *Synthetic vision system (SVS):* Term not used in R. (EU) 965/2012. This definition will be inserted in R965 through RMT.0379 (AWO). **Less protective or partially implemented or not implemented.**

- 1.1 *Continuous Descent Final Approach (CDFA)*: The application of the CDFA technique to apply until circling approach minima (circling OCA/H) or visual flight manoeuvre altitude/height are reached, are planned to be transposed into Regulation (EU) No 965/2012 through the EASA rulemaking task RMT.0379 All-Weather Operations, the Opinion of which is expected to be published in 2021. **Less protective or partially implemented or not implemented.**
- 2.1.1.5 *Recommendation*: No specific requirement for non-commercial operations with other-than complex motorpowered aircraft (NCO). **Less protective or partially implemented or not implemented.**
- 2.1.4 *Standard*: Specific Approvals (SPA) must be issued by the State of the Operator. In addition to the specific approvals listed in Appendix 2.4, SPA are also required for transport of Dangerous Goods and EFB. No difference if the specific approvals for PBN, MNPS, RVSM and LVO are issued for non-commercial operators using aircraft registered in a third country. **Different in character or other means of compliance.**
- 2.2.2.2.1 *Standard*: In NCC, the rule addresses to the operator, not to the PIC. For low visibility operations (LVO), it is the competent authority as established by Annex V (Part SPA): State of the Operator if the aircraft is registered in an EU Member State; or State of Registry if the aircraft is registered in a third country and the State of Registry has already issued the LVO specific approval. **Different in character or other means of compliance.**
- 2.2.2.2.1.1 *Standard*: R.965/2012 currently allows only operational credits for HUDs and EVS. Therefore SVS and CVS rules are more exacting or exceed the provisions of ICAO. The approval for additional operational credits will be introduced through RMT.0379 (All-Weather Operations (AWO)). Classification aspect not mentioned in SPA.LVO.100. For non-commercial operators, the State of Operator approves the operational credits instead of the State of Registry. **Less protective or partially implemented or not implemented.**
- 2.2.2.2.2 *Standard*: Different in character. R.965/2012 has not yet transposed the new approach classification. The EU rules do not yet classify approach operations by Type A and B. RMT 0379 (AWO) is envisaged to update the approach classification, including the removal of the definitions for Category (CAT) IIIA, IIIB and IIIC which are still being used in EU-rules. **Different in character or other means of compliance.**
- 2.2.2.2.3 *Standard*: R.965/2012 has not yet transposed the new approach classification. It will be introduced via RMT.0379 (AWO). No distinction between CDFA with manual calculation (2D) and CDFA with VNAV (3D). **Different in character or other means of compliance.**
- 2.2.3.4.3 *Standard*: No margin defined for destination aerodrome in NCC.OP.150, NCC.OP.180: but margin defined in NCC.OP.151 and NCO.OP.140 for alternate aerodromes. Margin not defined in NCO.OP.160. It is the State of Operator instead of the State of Registry that shall establish those criteria. **Less protective or partially implemented or not implemented.**
- 2.2.3.5 *Standard*: Requirement (a)(2) for separate runways to be usable at the estimated time of use of the destination aerodrome with at least one runway having a operational instrument approach procedure is not implemented in the EU rules. EU rules require a period commencing one hour before and ending one hour after the estimated time of arrival at the aerodrome in accordance with 2.2.3.4.3. EU rules do not require a point of no return but instead require always to have an alternate aerodrome (with very few exceptions e.g. isolated aerodrome) and other conditions (e.g. EU rules require fuel for 2 hours). **Less protective or partially implemented or not implemented.**
- 2.2.3.6.1 *Standard*: Part-NCO allows for lower criteria for VFR A-to A flights when remaining in sight of the aerodrome/landing site. **Less protective or partially implemented or not implemented.**
- 2.2.3.7 *Recommendation*: The EU rules do not allow refueling with passengers on board when aviation gasoline (AVGAS) or wide-cut type fuel or a mixture of these types of fuel are being used. **More Exacting or Exceeds.**
- 2.2.4.6 *Recommendation*: The EU rules contain an alleviation to the availability and use of oxygen on board under NCO.OP.190 and AMC1 NCO.OP.190(a). The PIC can decide to fly at any altitude without using oxygen, and without oxygen being available. AMC1 NCO.OP.190(a) additionally states: "(...) the PIC should: (...) (b)(2) if detecting early symptoms of hypoxia conditions: (i) consider to return to a safe altitude, and (ii) ensure that supplemental oxygen is used, if available." No difference for Part-NCC. **Less protective or partially implemented or not implemented.**

- 2.4.2.2 *Standard:* ELA1 aeroplanes, i.e. aeroplanes with a Maximum Take-off Mass (MTOM) of 1200 kg or less that is not classified as complex motor-powered aircrafts, are exempt from the hand fire extinguisher requirement in NCO.IDE.A.160. For NCC operators in the EU, the State of the Operator is the competent authority not the State of Registry. The State of the Operator also issues the specific approvals. **Less protective or partially implemented or not implemented.**
- 2.4.2.3 *Standard:* Only for Large Aeroplanes Initial CofA after 18 Feb 2020 (lavatory) and 18 May 2019 (portable). No reference for Part-NCO, as it is very unlikely that an NCO aircraft has a lavatory. **Less protective or partially implemented or not implemented.**
- 2.4.3.2 *Recommendation:* The EU rules do not distinguish between VFR flights and VFR controlled flights. The other means of compliance are ensured through the provisions in NCC.IDE.A.120(b) for additional instruments when in conditions where the aeroplane cannot be maintained in a desired flight path without reference to one or more additional instruments, as well as the additional limitations in Part SERA.5010 for VFR controlled flights. **Different in character or other means of compliance.**
- 2.4.11.2, 2.4.11.3 *Recommendation:* EASA SIB 2017-14 (Safety Information Bulletin) recommends the installation of TAWS for light aeroplanes not engaged in Commercial Air Transport. **Not implemented.**
- 2.4.12.3 *Standard:* NCO.IDE.A.170 (a) (3): a survival ELT (ELT(S)) or a personal locator beacon (PLB), carried by a crew member or a passenger, is authorised when certified for a maximum passenger seating configuration of six or less. **Less protective or partially implemented or not implemented.**
- 2.4.15.1 *Standard:* R. (EU) 965/2012 does not contain rules for SVS and CVS. EVS and HUD are addressed in SPA.LVO. SVS and CVS will be addressed with RMT.0379. For single-pilot operations, the minimum RVR/VIS should be calculated in accordance with the following additional criteria: (...) (ii) an approved HUDLS, including, where appropriate, enhanced vision system (EVS), or equivalent approved system. Moreover, in the EU system, for NCC operators, it is the State of the Operator that has this responsibility, not the State of Registry. **Less protective or partially implemented or not implemented.**
- 2.4.15.2 *Standard:* CVS does not receive operational credits. R.(EU) 965/2012 currently allows operational credits only for HUDs and EVS.SVS and CVS will be addressed with RMT.0379. **Less protective or partially implemented or not implemented.**
- 2.4.16.1.1.1 *Recommendation:* There is no flight recorder carriage requirement in Part-NCO, only in Parts CAT, SPO and NCC. The flight recorder carriage requirements in the Air Ops rules are only applicable to commercial operations (CAT and commercial specialised operations). GM19 to Annex I and AMC1 CAT.IDE.A.191 to be published end of 2019 or Q1 2020. 2.4.16.1.1.1: Not addressed. Notes 1 and 2: R. (EU) 965/2012: Annex I Definitions (49c); GM19 to Annex I for the different categories of flight recorders. Notes 4 and 5: R. (EU) 965/2012: AMC1 NCC.IDE.A.160 for the CVR; AMC1 & AMC2 NCC.IDE.A.165 for the FDR; AMC1 NCC.IDE.A.170 for the DLR. Note 6: AMC1 CAT.IDE.A.191 for reference to ED 155. Note 7: Point (f) of NCC.GEN.145 addresses the protection of recordings of flight recorders. **Less protective or partially implemented or not implemented.**
- 2.4.16.1.1.2 *Standard:* NCC.IDE.A.165 is applicable to aeroplanes with CofA issued on or after 1 January 2016. **More Exacting or Exceeds.**
- 2.4.16.1.2 *Standard:* Not implemented into EU rules. Recorders are required by 2.4.16.1.1.2 only for aeroplanes for which application for TC is after 2023. All new models of recorders on the market are solid-state, therefore there is no need to forbid the old recording technologies (metal foil, frequency modulation, photographic film or magnetic tape). See also NPA 2013-26, RIA A. **Less protective or partially implemented or not implemented.**
- 2.4.16.2.1 *Recommendation:* Not implemented into EU rules. The applicability of this recommended practice corresponds to Part-NCO. There is no flight recorder carriage requirement in Part-NCO. **Less protective or partially implemented or not implemented.**
- 2.4.16.2.2 *Standard:* Not implemented into EU rules. 2.4.16.2.1 is only applicable to aeroplanes first issued with an individual CofA on or after 1 Jan 2016, and all modern models of CVR are solid-state. Therefore there is no need to forbid the old recording technologies. See also NPA 2013-26, RIA A. **Less protective or partially implemented or not implemented.**
- 2.4.16.3.3 *Standard:* It is required to record 'information on the time and priority of data link messages'. This is considered sufficient to correlate with the CVR recording. **Different in character or other means of compliance.**

- 2.4.17.2.2
2.4.17.3.3 *Standard:* For NCC operators and for NCO operators using third country registered aircraft, the State of Operator shall establish those criteria. **Different in character or other means of compliance.**
- 2.4.18.1
2.4.18.2
2.4.18.3 The European Rules on Air Operations is not aligned with the new ICAO provisions on aeroplanes operated under Article 83 bis agreement. **Less protective or partially implemented or not implemented.**
- 2.4.18.4 *Recommendation:* The European Rules on Air Operations is not aligned with the new ICAO provisions on aeroplanes operated under Article 83 bis agreement. **Less protective or partially implemented or not implemented**
- 2.5.1.7
2.5.1.8 *Standard:* For operators using third country registered aircraft, the State of Operator shall establish those criteria. **Different in character or other means of compliance.**
- 2.5.1.9 *Standard:* For operators using third country registered aircraft, the State of Operator shall ensure those provisions. **Different in character or other means of compliance.**
- 2.5.2.3
2.5.2.4 *Standard:* For operators using third country registered aircraft, the State of Operator shall establish those criteria. **Different in character or other means of compliance.**
- 2.5.2.5-
2.5.2.7 *Standard:* For operators using third country registered aircraft, the State of Operator shall grant those specific approvals. **Different in character or other means of compliance.**
- 2.5.2.9 *Standard:* For operators using third country registered aircraft, the State of Operator shall ensure those provisions. **Different in character or other means of compliance.**
- 2.5.2.10 *Standard:* EU rules require to monitor the aircraft height keeping performance, but not in a specific interval. For operators using third country registered aircraft, the State of Operator shall establish the requirement. **Less protective or partially implemented or not implemented.**
- 2.5.3.3
2.5.3.4 *Standard:* For operators using third country registered aircraft, the State of Operator shall establish those criteria. **Different in character or other means of compliance.**
- 2.5.3.5 *Standard:* For operators using third country registered aircraft, the State of Operator shall ensure those provisions. **Different in character or other means of compliance.**
- 2.6.1.1 *Standard:* Risk assessment when approving a maintenance programme not based on the type certificate holder's maintenance recommendations not addressed. **Less protective or partially implemented or not implemented.**
- 2.6.2.2 *Standard:* Retaining periods exceed requirements. **More Exacting or Exceeds.**
- 2.6.4.2 *Standard:* Maintenance and release to service by a person can be performed by Part MF, or Part CAO or by a pilot/owner after limited pilot/owner maintenance. Part M subpart F can be applied until 8-7-2021. **Less protective or partially implemented or not implemented.**
- 2.7.2.1 *Standard:* For operators using third country registered aircraft, the State of Operator shall render licenses valid. **Different in character or other means of compliance.**
- 2.8.1 *Standard:* For operators using third country registered aircraft, the State of Operator shall make those changes mandatory. **Different in character or other means of compliance.**
- 2.9.1 *Standard:* Reg. (EC) No 300/2008 does not contain references to pilot in command responsibilities related to the security of aircraft. **Less protective or partially implemented or not implemented.**
- 3.1.2 *Recommendation:* Definition of complex motor-powered aeroplane includes aeroplanes only with a MOPSC of more than 19. **Less protective or partially implemented or not implemented.**
- 3.4.2.1.1 *Standard:* The EU system has the State of Operator instead of State of Registry as the Competent Authority. **Different in character or other means of compliance.**
- 3.4.2.1.2 *Standard:* EU rules provide for the cooperative oversight of activities of operators established or residing in another EU member state. Reg. (EC) 300/2008 establishes requirements for inspections by the Commission in cooperation with Member States. **Different in character or other means of compliance.**
- 3.4.2.7 *Standard:* For NCC operators, the State of Operator establishes the criteria instead of the State of Registry. For low visibility operations (LVO), it is the competent authority as established by Annex V (Part SPA): State of the Operator if the aircraft is registered in an EU Member State; or State of Registry if the aircraft is registered in a third country and the State of Registry has already issued the LVO specific approval. **Different in character or other means of compliance.**

- 3.4.2.8 *Standard:* Reg. (EC) High-level requirements are included in the Essential Requirements, Annex V to Regulation (EU) 2018/1139. Detailed FTL provisions are determined at national level. Fatigue requirements for maintenance personnel not addressed. **Less protective or partially implemented or not implemented.**
- 3.4.3.5.2 *Standard:* Fuel consumption data as required in (a) is not implemented in the EU rules. **Less protective or partially implemented or not implemented.**
- 3.4.3.5.3 *Standard:* European rules do not break down the amount of fuel by phases of flight. **Different in character or other means of compliance.**
- 3.4.3.5.4 *Recommendation:* R. (EU) 965/2012 requires a mandatory final reserve fuel (FRF) of 30 minutes (VFR by day) or 45 minutes (VFR by night and IFR). **More Exacting or Exceeds.**
- 3.4.3.6.2 *Standard:* Part-NCC does not define final reserve fuel as such. Instead NCC.OP.130 gives the amount of minutes for the required final reserve fuel. **Different in character or other means of compliance.**
- 3.4.3.7 *Standard:* Part NCC does not provide such a requirement. **Less protective or partially implemented or not implemented.**
- 3.4.3.8.1 *Standard:* EU rules do not allow embarking, on board or disembarking of passengers while refueling with AVGAS or wide cut type fuel or a mixture of these fuel types. **More Exacting or Exceeds.**
- 3.5.2.3 *Standard:* For operators using third country registered aircraft, the State of Operator shall establish those criteria. **Different in character or other means of compliance.**
- 3.6.1.1 *Standard:* In the EU system, the State of Operator is responsible for approving the MEL. **Different in character or other means of compliance.**
- 3.6.3.1.1.1 *Standard:* Carriage of a flight data recorder is required only for aeroplanes first issued with an individual CofA on or after 1 January 2016. **Less protective or partially implemented or not implemented.**
- 3.6.3.1.1.2 *Standard:* Carriage of a flight data recorder is required only for aeroplanes first issued with an individual CofA on or after 1 January 2016. **Less protective or partially implemented or not implemented.**
- 3.6.3.1.1.3 *Recommendation:* Carriage of a flight data recorder is required only for aeroplanes first issued with an individual CofA on or after 1 January 2016. **Less protective or partially implemented or not implemented.**
- 3.6.3.2.1.1 *Standard:* NCC.IDE.A.160 (a)(2) is applicable to aeroplanes for which the type certificate is issued after 1 January 2016, while 3.6.3.2.1 criterion is the date of submission of the application for a type certificate. **More exacting or exceeds.**
- 3.6.3.2.1.2 *Standard:* NCC.IDE.A.160(a)(1) only requires a CVR for aeroplanes above 27 000 kg MCTOM which were first issued with an individual CofA on or after 1 Jan 2016. **Less protective or partially implemented or not implemented.**
- 3.6.3.2.1.3 *Recommendation:* NCC.IDE.A.160(a)(1) and (2) only requires a CVR for aeroplanes that were first issued with an individual CofA on or after 1 Jan 2016 (see (a)(1)) or for which a type certificate was first issued on or after 1 Jan 2016 (see (a)(2)). **Less protective or partially implemented or not implemented.**
- 3.6.8.2.1 *Recommendation:* The European regulatory system only requires it when the individual CofA was issued after 31 December 1980. **Less protective or partially implemented or not implemented.**
- 3.6.9.1 *Recommendation:* European Regulatory system requires ACAS II for turbine engine aeroplanes with an MCTOM of more than 5700 kg or MOPSC of more than 19. **More exacting or exceeds.**
- 3.8.1.2. *Recommendation:* Initial and continuation training are not specifically addressed in M.A.607 or Human Factors. **Less protective or partially implemented or not implemented.**
- 3.8.2.1 *Recommendation:* Part M, Part CAMO and Part CAO do not observe Human Factors principles in the design of the Maintenance Control Manual. **Less protective or partially implemented or not implemented.**
- 3.8.3.1 *Standard:* Part M Subpart G, Part CAMO and Part CAO do not observe Human Factors principles in the design of the Maintenance Programme. **Less protective or partially implemented or not implemented.**
- 3.8.3.2 *Standard:* EU requirements are not as explicit. **Different in character or other means of compliance.**
- 3.8.4 *Standard:* For the transmission of the information as per Annex 8 there is no alleviation related to MTOW – required from all aeroplanes' owners. **More exacting or exceeds.**
- 3.8.5.2 *Standard:* Maintenance and release to service by a person can be performed by Part MF or Part CAO. Part M subpart F can be applied until 8-7-2021. **Less protective or partially implemented or not implemented.**

- 3.10.0.1 *Recommendation:* The human factor element of training is not specifically mentioned in ORO.GEN.110. Minimum training requirements for OCC personnel will be addressed in RMT.0392. **Less protective or partially implemented or not implemented.**

ANNEX 6 Part III - INTERNATIONAL OPERATIONS – HELICOPTERS
(Eleventh Edition, July 2022, amd. 24)

Section I GENERAL

Chapter 1 Definitions

- 1.0.3 Airworthy
Less protective or partially implemented or not implemented.
Details of Difference: No definition as such.
- 1.0.3 Configuration deviation list (CDL)
Less protective or partially implemented or not implemented.
Details of Difference: Not defined as a term.
- 1.0.3 Flight crew member
Not Applicable.
State reference: No definition.
- 1.0.3 Maintenance organization's procedures manual
Less protective or partially implemented or not implemented.
Details of Difference: Not implemented as a term.
- 1.0.3 Maintenance programme
Less protective or partially implemented or not implemented.
Details of Difference: Not implemented as a term.
- 1.0.3 Maintenance release
Less protective or partially implemented or not implemented.
Details of Difference: Not implemented as a term.
- 1.0.3 Operator's maintenance control manual
Less protective or partially implemented or not implemented.
Details of Difference: Not implemented as a term.
- 1.0.3 Required communication performance (RCP)
Less protective or partially implemented or not implemented.
Details of Difference: Term not used.
RMK: Defined in EUROCAE ED-78A/RTCA DO-264.
- 1.0.3 Required communication performance type (RCP type)
Less protective or partially implemented or not implemented.
Details of Difference: Term not used.
RMK: Defined in EUROCAE ED-78A/RTCA DO-264.
- 1.0.3 Take-off and initial climb phase
Less protective or partially implemented or not implemented.
Details of Difference: No definition as such. Explanation used in European rules. Same safety margins. But differences exist depending of the performance class of the Helicopter. RMK: For performance class 1 and 2 "take off phase" is used. For performances class 3 "take off and landing phases" are used. Different requirement of height (300 m for ICAO) in all of them.

Section II INTERNATIONALCOMMERCIAL AIR TRANSPORT

Chapter 1 General

- 1.1.5 Responsibility for operational control shall be delegated only to the pilot-in-command and to a flight operations officer/flight dispatcher if an operator's approved method of control and supervision of flight operations requires the use of flight operations officer/flight dispatcher personnel.
Less protective or partially implemented or not implemented.
State reference: ORO.GEN. 110, AMC1 ORO.GEN. 110(c). Details of Difference: Reg. (EU) 965/2012 doesn't require licensing of operations officer or flight dispatcher.
- 1.3.1 Safety management
Note – Annex 19 includes safety management provisions for air operators. Further guidance is contained in the Safety Management Manual (SMM) (Doc 9859).
Less protective or partially implemented or not implemented.
Details of Difference: not transposed to (EU) 965/2012.
- 1.3.2 A flight data analysis programme shall be non-punitive and contain adequate safeguards to protect the source(s) of the data.
Less protective or partially implemented or not implemented.
Details of Difference: No requirement for a flight data analysis programme for helicopter operations.
- Chapter 2 Flight Operations
- 2.3.8.2 A flight to be operated with a pressurized helicopter shall not be commenced unless a sufficient quantity of stored breathing oxygen is carried to supply all the crew members and passengers.
Not applicable
Not Applicable.
State reference: No regulation.
RMK: No rules as there are no pressurized helicopters operated in the EU.
- 2.4.6 Safeguarding of cabin crew and passengers in pressurized aircraft in the event of loss of pressurization.
Not applicable
Less protective or partially implemented or not implemented.
State reference: CAT.OP.MPA.285.
Details of Difference: Art 38.
RMK: Art 38; No rules, as there are no pressurized helicopters operated in the EU.
CAT.OP.MPA.285 is the only requirement at this stage.
- 2.6.1 Duties of flight operations officer/flight dispatcher.
Less protective or partially implemented or not implemented.
Details of Difference: The European rules do not required flight operations officer.
- 2.6.2 In the event of an emergency, a flight operations officer/flight dispatcher shall:....
Not applicable
Not Applicable.
Details of Difference: The European rules do not required flight operations officer.
- Chapter 4 Helicopter Instruments, Equipment, and Flight Documents
- 4.3.1.1.1 Flight recorders
State reference: 4.3; Note 1: There is no definition for crash-protected flight recorder; Note 2: AMC1 CAT.IDE.H.200; Note 4 and 7: There is no definition for lightweight flight recorder; 4.3.1 Note 5 AMC1 CAT.IDE.H.190; Note 6 AMC1 CAT.IDE.H.190 and AMC2 CAT.IDE.H.190; 4.3.11 CAT.IDE.H.190 (b)(3).
Less protective or partially implemented or not implemented.
Details of Difference: For installation design requirements, refer to applicable certification specifications (CS 29.1457 for CVR and CS 29.1459 for FDR).

For equipment design requirements, refer to applicable ETSOs (C123 for CVR, C124 for FDR, C176 for AIR, C177 for DLR, 2C197 for ADRS and CARS).
AMC1 CAT.IDE.H.190 recommends compliance with ED-112 only for helicopters manufactured on or after 01 January 2016.
- 4.3.1.2.3 *Recommendation:* All helicopters of a maximum certificated take-off mass of over 3 180 kg, up to and including 7 000 kg, for which the individual certificate of airworthiness is first issued on or after 1 January 1989, should be equipped with a Type V FDR.
Less protective or partially implemented or not implemented.
State reference: CAT.IDE.H.190 (a)(1) and (b)(2).
Details of Difference: Required for helicopters first issued with an individual CofA on or after 01 August 1999.

- 4.3.1.2.4 All turbine-engined helicopters of a maximum certificated take-off mass of over 2 250 kg, up to and including 3 180 kg for which the application for type certification was submitted to a Contracting State on or after 1 January 2018 shall be equipped with:
a) a Type IV A FDR; or
b) a Class C AIR capable of recording flight path and speed parameters displayed to the pilot(s); or c) an ADRS capable of recording the essential parameters defined in Table A5-3 of Appendix 5.
Less protective or partially implemented or not implemented.
State reference: CAT.IDE.H.190 (a).
Details of Difference: Not implemented. To be developed under RMT.0271.
- 4.3.1.2.5 *Recommendation:* All helicopters of a maximum certificated take-off mass of 3 180 kg or less for which the individual certificate of airworthiness is first issued on or after 1 January 2018 should be equipped with:
a) a Type IV A FDR; or
b) a Class C AIR capable of recording flight path and speed parameters displayed to the pilot(s); or
c) an ADRS capable of recording the essential parameters defined in Table A5-3 of Appendix 5.
Less protective or partially implemented or not implemented.
State reference: CAT.IDE.H.190 (a).
Details of Difference: Not implemented. To be developed under RMT.0271.
- 4.3.1.3.2 *Recommendation:* The use of analogue FDRs using frequency modulation (FM) should be discontinued.
Less protective or partially implemented or not implemented.
State reference: CAT.IDE.H.190 (a).
Details of Difference: Discontinuation of frequency modulation FDR not implemented, European rules allows the use of it.
- 4.3.1.3.4 The use of analogue FDRs using frequency modulation (FM) shall be discontinued by 1 January 2012.
Less protective or partially implemented or not implemented.
State reference: CAT.IDE.H.190 (a).
Details of Difference: Discontinuation of frequency modulation FDR not implemented.
- 4.3.1.3.5 *Recommendation:* The use of magnetic tape FDRs should be discontinued by 1 January 2011.
Less protective or partially implemented or not implemented.
State reference: CAT.IDE.H.190 (a).
Details of Difference: Discontinuation of frequency modulation FDR not implemented.
- 4.3.1.3.6 The use of magnetic tape FDRs shall be discontinued by 1 January 2016.
Less protective or partially implemented or not implemented.
State reference: CAT.IDE.H.190 (a).
Details of Difference: Discontinuation of frequency modulation FDR not implemented.
- 4.3.1.4 Duration
Types IV, IVA and V FDRs shall be capable of retaining the information recorded during at least the last ten hours of their operation.
Less protective or partially implemented or not implemented.
State reference: CAT.IDE.H.190 (b).
Details of Difference: Only in the case of helicopters first issued with an individual CofA on or after 01 January 2016 (corresponding to type IVA) is the FDR required to record data for at least the preceding 10 hours.
- 4.3.2.1.1 Cockpit voice recorders
Less protective or partially implemented or not implemented.
State reference: AMC1 CAT.IDE.H.185.
Details of Difference: Compliance with ED-112 is only required for helicopters first issued with an individual CofA on or after 01 January 2016.
- 4.3.2.2 Discontinuation
- 4.3.2.2.1 The use of magnetic tape and wire CVRs shall be discontinued by 1 January 2016.
Less protective or partially implemented or not implemented.
State reference: CAT.IDE.H.185.
RMK: Discontinuation of magnetic tape CVR not implemented, however Opinion 01/2014 proposes discontinuation by 01 January 2019.
- 4.3.2.2.2 *Recommendation:* The use of magnetic tape and wire CVRs should be discontinued by 1 January 2011.
Less protective or partially implemented or not implemented.
State reference: CAT.IDE.H.185.
RMK: Discontinuation of magnetic tape CVR not implemented, however Opinion 01/2014 proposes discontinuation by 01 January 2019.

- 4.3.2.3.3 *Recommendation:* All helicopters for which the individual certificate of airworthiness is first issued on or after 1 January 1990, and that are required to be equipped with a CVR, should have a CVR capable of retaining the information recorded during at least the last two hours of its operation.
Less protective or partially implemented or not implemented.
State reference: CAT.IDE.H.185.
Details of Difference: Not implemented.
- 4.3.3.1.2 All helicopters which are modified on or after 1 January 2016 to install and utilize any of the data link communications applications listed in 5.1.2 of Appendix 5 and are required to carry a CVR shall record on a flight recorder the data link communications messages.
Less protective or partially implemented or not implemented.
State reference: CAT.IDE.H.195.
Details of Difference: Not implemented.
- 4.3.4.4 Flight recorders electronic documentation
Recommendation: The documentation requirement concerning FDR parameters provided by operators to accident investigation authorities should be in electronic format and take account of industry specifications.
State reference: CAT.GEN.MPA.195 (d);
Details of Difference: It is not required that the FDR documentation is in electronic format.
- 4.4.4 *Recommendation:* A helicopter when operating in accordance with IFR and which has a maximum certificated take-off mass in excess of 3 175 kg or a maximum passenger seating configuration of more than 9 should be equipped with a ground proximity warning system which has a forward-looking terrain avoidance function.
Less protective or partially implemented or not implemented.
Details of Difference: European rules do not require Ground Proximity Warning system for helicopters.
- 4.5.2.8 *Recommendation:* On any helicopter for which the individual certificate of airworthiness was first issued before 1 January 1991, the provisions of 4.5.2.6 and 4.5.2.7 should be complied with no later than 31 December 1992.
Not applicable.
Details of Difference: The AMC is applicable to all helicopters regardless of the date of issuance of the CofA.
- 4.5.3.2 *Recommendation:* For offshore operations, a survival suit should be worn by all occupants when the sea temperature is less than 10°C or when the estimated rescue time exceeds the calculated survival time. When the elevation and strength of the sun results in a high temperature hazard on the flight deck, consideration should be given to alleviating the flight crew from this recommendation. **Less protective or partially implemented or not implemented.**
State reference: CAT.IDE.H.295; GM1 CAT.IDE.H.295;
Details of Difference: Considerations on sun not included.
- 4.8.4 *Recommendation:* A helicopter intended to be operated at flight altitudes at which the atmospheric pressure is more than 376 hPa which cannot descend safely within four minutes to a flight altitude at which the atmospheric pressure is equal to 620 hPa, and for which the individual certificate of airworthiness was issued before 9 November 1998, should be provided with automatically deployable oxygen equipment to satisfy the requirements of 2.3.8.2. The total number of oxygen dispensing units should exceed the number of passenger and cabin crew seats by at least 10 per cent.
Less protective or partially implemented or not implemented.
Details of Difference: Not implemented.
- 4.15 Vibration health monitoring system
Recommendation: A helicopter which has a maximum certificated take-off mass in excess of 3 175 kg or a maximum passenger seating configuration of more than 9 should be equipped with a vibration health monitoring system.
Less protective or partially implemented or not implemented.
Details of Difference: NPA 2013-10; Req offshore in hostile sea.; NPA 2013-22 Not req. onshore.
- Chapter 6 Helicopter Maintenance
- 6.1.3 When the State of Registry accepts an equivalent system, the person signing the maintenance release shall be licensed in accordance with Annex 1.
Not applicable.

- 6.2.1 Operator's maintenance control manual
The operator shall provide, for the use and guidance of maintenance and operational personnel concerned, a maintenance control manual, acceptable to the State of Registry, in accordance with the requirements of 9.2. The design of the manual shall observe Human Factors principles.
Less protective or partially implemented or not implemented.
State reference: M.A.704 (a) AMC M.A.704 point 4, Appendix V to AMC M.A.704.
Details of Difference: Non-compliance is only identified in relation to the HF Requirement;
RMK: M.A.704 (a) requires to provide the CAME although it is not specified to whom. The AMC requires the personnel to be familiar with the relevant parts of the manual. The manual is approved by the State of Operator, due to mutual recognition is valid for the State of Registry within EASA MS.
- 6.2.4 The operator shall provide the State of the Operator and the State of Registry with a copy of the operator's maintenance control manual, together with all amendments and/or revisions to it and shall incorporate in it such mandatory material as the State of the Operator or the State of Registry may require.
Less protective or partially implemented or not implemented.
State reference: Part-M M.A.704(b), AMC M.A.704 point 6, Appendix V to AMC M.A.704, Part-M M.B.104(b)(8).
Details of Difference: Non-compliance relates to the requirement to provide the manual to the State of Registry if different from the SofO. It is currently required to be approved by the State of Operator; RMK: Within the member States this requirement is compensated by the mutual recognition.
- 6.3 Maintenance programme
- 6.3.1 The operator shall provide, for the use and guidance of maintenance and operational personnel concerned, a maintenance programme, approved by the State of Registry, containing the information required by 9.3. The design and application of the operator's maintenance programme shall observe Human Factors principles.
Less protective or partially implemented or not implemented.
State reference: Part-M M.A.302(b), AMC 145.45(b)(2), Part-145 145.A.47(b).
Details of Difference: Non-compliance is in relation to the requirement for HF in MP design.
RMK: Current Maintenance programme should be provided by the operator as part of the maintenance data in accordance with Part-145. For the application of MP the HF principles are taking into account with 145.A.47 production planning.
- 6.4 Maintenance records
- 6.4.1 **Less protective or partially implemented or not implemented.**
State reference: Part-M M.A.305(h).
Details of Difference: Non-compliance refers to the item f) where only aircraft and service LLP's records in are concerned Part-M.
RMK: Also Part-M requires the Technical Logbook to be kept for 36 months.
- 6.7.2 A maintenance release shall contain a certification including:
a) basic details of the maintenance carried out including detailed reference of the approved data used;
b) date such maintenance was completed;
c) when applicable, the identity of the approved maintenance organization; and
d) the identity of the person or persons signing the release.
Less protective or partially implemented or not implemented.
State reference: 145.A.50 (a), AMC 145.A.50 (b), Block 14b of item 5 of Appendix II to Part-M.
Details of Difference: Non-compliance is identified in relation to the requirement for Certifying.
Personnel identity in the aircraft CRS.
RMK: Partially EASA requirement exceeds ICAO Standard, because of an additional requirement for information on any life or overhaul limitation in terms of date/flying hours/cycles/landings etc.
- Chapter 8 Flight Operations Officer/Flight Dispatcher
- 8.1
Not applicable When the State of the Operator requires that a flight operations officer/flight dispatcher, employed in conjunction with an approved method of control and supervision of flight operations be licensed, that flight operations officer/flight dispatcher shall be licensed in accordance with the provisions of Annex 1.
Not applicable.
State reference: ORO.GEN.110.
Details of Difference: Not implemented.
RMK: No requirement for flight operations officer/flight dispatchers to be licensed.

- 8.2 In accepting proof of qualifications other than the option of holding of a flight operations officer/flight dispatcher licence, the State of the Operator, in accordance with the approved method of control and supervision of flight operations, shall require that, as a minimum, such persons meet the requirements specified in Annex 1 for the flight operations officer/flight dispatcher licence.
Less protective or partially implemented or not implemented.
 State reference: ORO.GEN.110.
 Details of Difference: No detailed requirement for flight dispatchers training.
 RMK: Article 38.
- 8.3 A flight operations officer/flight dispatcher shall not be assigned to duty unless ...
Less protective or partially implemented or not implemented.
 State reference: ORO.GEN.110.
 Details of Difference: No detailed requirement for flight dispatchers training.
 RMK: Article 38.
- 8.4 *Recommendation:* A flight operations officer/flight dispatcher assigned to duty should maintain complete familiarization with all features of the operations which are pertinent to such duties, including knowledge and skills related to human performance.
Less protective or partially implemented or not implemented.
 State reference: ORO.GEN.110, ORO.AOC.135.
 Details of Difference: Not transposed.
- 8.5 *Recommendation:* A flight operations officer/flight dispatcher should not be assigned to duty after 12 consecutive months of absence from such duty, unless the provisions of 8.3 are met.
Less protective or partially implemented or not implemented.
 Details of Difference: Not transposed.

Chapter 9 Manuals, Logs and Records

- 9.2 Operator's maintenance control manual.
Less protective or partially implemented or not implemented.
 State reference: Appendix V to AMC M.A.704, Part 5, 5.6; n/a, Part-M M.A.704(a)(3), Part-M M.A.704(a)(9), Appendix V to AMC M.A.704, Part 1, 1.3, Appendix V to AMC M.A.704, Part 1, 1.5;1.8, Appendix V to AMC M.A.704, Part 1, 1.8, Appendix V to AMC M.A.704, Part 1, 1.6, Appendix V to AMC M.A.704, Part 1, 1.4, Appendix V to AMC M.A.704, Part 1, 1.5, Appendix V to AMC M.A.704, Part 0, 0.2, Appendix V to AMC M.A.704, Part 1, 1.1, 1.8, Appendix V to AMC M.A.704, Part 1, 1.8, Part-M M.A.704(a)(8), Appendix V to AMC M.A.704, Part 0, 0.6.
 Details of Difference: No procedures are foreseen in accordance with item m) because under the AIR OPS in most of the cases Regulation 2042/2003 applies. The Non-compliance could be only in case AMC1 ORO.AOC.110(c) – special continuing airworthiness requirements related to the 'wetlease in' of the aircraft from the 3d country.
- 9.4.2 *Recommendation:* Entries in the journey log book should be made currently and in ink or indelible pencil.
Less protective or partially implemented or not implemented.
 Details of Difference: Not transposed.
- 9.4.3 *Recommendation:* Completed journey log books should be retained to provide a continuous record of the last six months' operations .
Less protective or partially implemented or not implemented.
 State reference: ORO.MLR.115.
 Details of Difference: 3 months storage period required under Reg. 965/2012.

ANNEX 7 – AIRCRAFT NATIONALITY AND REGISTRATION MARKS

(Sixth Edition, July 2012, amd. 7)

- 3 Unmanned free balloons are exempted from registration and therefore have no marks or identification plates.
 4.2
 8
- 7 No centralized register of unmanned free balloons is kept. Launching of free balloons requires prior permission from Swedish Transport Agency.
- 3.6 In the Swedish aircraft register the following three-letter combination exists following the country code SE- TTT, XXX and ZZZ.

ANNEX 8 – AIRWORTHINESS OF AIRCRAFT

(Thirteenth Edition, November 2022, amd. 109)

Part II EASA format only describes category, and not permitted operations.
Chapter 3.3
Standard
form of
Certificates
of Air-
worthiness

Part IVB Not implemented.
Chapter 4.7
Ground
handling

ANNEX 9 – FACILITATION
(*Sixteenth Edition, July 2022*)

No differences.

ANNEX 10 – AERONAUTICAL TELECOMMUNICATIONS
Volume I (*Seventh Edition, July 2018, amd. 93*)

Annex 10 vol I
Amendments up to 92 is implemented in Sweden through national legislation.

| Volume II (*Seventh Edition, July 2016, amd. 93*)

| Annex 10 vol II
| Amendments up to 92 is implemented in Sweden through national legislation.

| Chapter 1 Definitions according Regulation (EU) No 923/2012 and Regulation (EU) 2017/373.
| Definitions

| 3.9 Not implemented.

Chapter 5 SERA.14035 Transmission of numbers in radiotelephony
5.2.1.4.1 (a) Transmission of numbers (1) All numbers used in the transmission of aircraft call sign, headings, runway, wind direction and speed shall be transmitted by pronouncing each digit separately.
(i) Flight levels shall be transmitted by pronouncing each digit separately except for the case of flight levels in whole hundreds.
(ii) The altimeter setting shall be transmitted by pronouncing each digit separately except for the case of a setting of 1000 hPa which shall be transmitted as 'ONE THOUSAND'.
(iii) All numbers used in the transmission of transponder codes shall be transmitted by pronouncing each digit separately except that, when the transponder codes contain whole thousands only, the information shall be transmitted by pronouncing the digit in the number of thousands followed by the word 'THOUSAND'.
(2) All numbers used in transmission of other information than those described in point (a)(1) shall be transmitted by pronouncing each digit separately, except that all numbers containing whole hundreds and whole thousands shall be transmitted by pronouncing each digit in the number of hundreds or thousands followed by the word 'HUNDRED' or 'THOUSAND', as appropriate. Combinations of thousands and whole hundreds shall be transmitted by pronouncing each digit in the number of thousands followed by the word 'THOUSAND', followed by the number of hundreds, followed by the word 'HUNDRED'.
(3) In cases where there is a need to clarify the number transmitted as whole thousands and/or whole hundreds, the number shall be transmitted by pronouncing each digit separately.
(4) When providing information regarding relative bearing to an object or to conflicting traffic in terms of the 12-hour clock, the information shall be given pronouncing the digits together such as 'TEN O'CLOCK' or 'ELEVEN O'CLOCK'.
(5) Numbers containing a decimal point shall be transmitted as prescribed in point (a)(1) with the decimal point in appropriate sequence indicated by the word 'DECIMAL'.
(6) All six digits of the numerical designator shall be used to identify the transmitting channel in Very High Frequency (VHF) radiotelephony communications except in the case of both the fifth and sixth digits being zeros, in which case only the first four digits shall be used.

Chapter 5
5.2.1.7.3.2.3 ICAO Annex 10, Volume II, Chapter 5.2.1.7.3.2.3 is transposed in point SERA.14055 of Implementing Regulation (EU) No 923/2012 with a difference. The difference between that ICAO Standard and that EU Regulation is as follows:
SERA.14055 Radiotelephony procedures
(b) (2) The reply to the above calls shall use the call sign of the station calling, followed by the call sign of the station answering, which shall be considered an invitation to proceed with transmission by the station calling. For transfers of communication within one ATS unit, the call sign of the ATS unit may be omitted, when so authorised by the competent authority.

Volume III (*Second Edition, July 2007, amd. 92*)

Annex 10 vol III
Amendments up to 90 is implemented in Sweden through national legislation.

Volume IV (*Fifth Edition, July 2014, amd. 91*)

Annex 10 vol IV
Amendments up to 90 is implemented in Sweden through national legislation.

Chapter 4

4.3.2 ACAS X provisions not implemented.

4.3.3.3.1.2

4.3.4.2

4.3.4.3.1

4.3.4.3.4.2

4.3.4.6

4.3.4.7

4.3.5.1.2.2

4.3.5.4.2

4.3.5.5.2

4.3.7.1.3

4.3.7.3.4.2

4.3.8.4.2.2.2

4.3.8.4.2.2.3 Not implemented.

4.5.1.6.2 Difference to reduce false alerts for ACAS II ver. 7.1 with hybrid surveillance not implemented

Volume V (*Third Edition, July 2013, amd. 89*)

4.5.1.6.2 No differences.

ANNEX 11 – AIR TRAFFIC SERVICES

(*Fifteenth Edition, July 2018, amd. 53*)

Chapter 1 Definitions according Regulation (EU) No 923/2012 and Regulation (EU) 2017/373.

Chapter 2

2.6.3 A higher speed may be approved by the competent authority for aircraft types which for technical or safety reason cannot maintain the speed limit of 250 kt in airspace class C for VFR flights and in airspace G for IFR and VFR flights.

2.26.5 Time checks shall be given at least to the nearest minute.

Chapter 3

3.3.1 Regulation (EU) No 923/2012). SERA.5010(c) introduces an accurate description of and requirements for special VFR.

3.3.4 Regulation (EU) No 923/2012). SERA.8005(b) in addition to the ICAO provisions requires the agreement of the pilot of the other aircraft, the maintenance of own separation and allow this exception below 3050 m (10000 ft) during climb or descent, during day.

3.7.3.1 Regulation (EU) No 923/2012) In addition to the ICAO standard in point b), point SERA.5015(e)(ii) also includes 'taxi'; in point c), point SERA.5015(e)(iii) also includes 'the newly assigned communication channels'.

- 3.7.3.1.1 Regulation (EU) No 923/2012, paragraph SERA.8015(e)(2), includes 'taxi instructions' in addition to the ICAO requirements to be read back.

Chapter 4

- 4.3.7 Regulation (EU) No 923/2012; SERA.9010(b) of Annex IV (Part-ATS) of Regulation (EU) 2017/373
4.3.8 ATS.TR.230, ATM/ANS.AR.A.015
4.3.9 Braking action will not be provided through ATIS as it is not aligned with the GRF concept, replaced by RCR.

ANNEX 12 – SEARCH AND RESCUE

(Eighth Edition, July 2004, amd. 19)

No differences.

ANNEX 13 – AIRCRAFT ACCIDENT INVESTIGATION

(Twelfth Edition, July 2020, amd. 18)

- 5.12 With regard to the constitutional freedom of information and access public records and
5.12.2 regulation (EU) No 996/2010 of the European parliament and of the Council of 20 October
5.12.3 2010 on the investigation and prevention of accidents and incidents in civil aviation and
5.12.4 repealing Directive 94/56/EC, Sweden will not be able to ensure non-disclosure of recordings,
5.12.4.1 transcripts of recordings and names of persons in every case.
5.12.5
5.12.6

ANNEX 14 – AERODROMES

(Ninth Edition, July 2022)

- 1.1 Arresting system
Definitions of arresting system not incorporated in national regulation. Will be changed in the coming revision of national regulations.
- Autonomous runway incursion system
Definitions of autonomous runway incursion system not incorporated in national regulation. Will be changed in the coming revision of national regulations.
- Foreign object debris (FOD)
Definitions of FOD not incorporated in national regulation. Will be changed in the coming revision of national regulations.
- Hot spot
Definitions of hot spot not incorporated in national regulation. Will be changed in the coming revision of national regulations.
- Instrument runway
Revised definitions for instrument runway as a result of a new approach classification not incorporated. Will be changed in the coming revision of national regulations.
- Non-instrument runway.
National definition state “continue VFR” instead of “continue in visual meteorological conditions”. Will be changed in the coming revision of national regulations.
- 2.6 Strength of pavements.
National regulations in accordance with the previous A14 standards.
RMK. Will be changed in the coming revision of national regulations.
- 3.1.26 Texture depth.
National regulation 0.8 mm.
RMK. Will be changed in the coming revision of national regulations.
- 3.4.7 Runway strips.
For air navigation or “for aircraft safety purposes” frangibility.
RMK. Will be changed in the coming revision of national regulations.
- 3.5.3 Dimensions of RESA.
Or a reduced length when an arresting system is installed.
RMK. Will be changed in the coming revision of national regulations.
- 5.2.8.9 National regulations in accordance with previous A14 standards.
RMK. Will be changed in the coming revision of national regulations.

ANNEX 15 – AERONAUTICAL INFORMATION SERVICES

(Sixteenth Edition, July 2018, amd. 43)

Revisions according amendment 43 will be implemented in conjunction to updated EU-regulation.

- 4.1.1 Contents in AIP AD-section concerning dimensions of runway end safety areas and location and description of arresting system are not provided.
- 5.3.3.3.2 Electronic terrain data and electronic obstacle data is not provided in Area 1.
- 5.3.3.3.8 Electronic terrain and obstacle data is not provided in Area 4.

ANNEX 16 – ENVIRONMENTAL PROTECTION

Volume I *(Eighth Edition, 2017 amd. 13)*

Volume II *(Fourth Edition, 2017, amd. 10)*

Volume III *(First Edition, 2017, amd. 1)*

Volume IV *(First Edition, 2018, amd. 1)*

- 1.6 The Swedish registered aircraft not under EASA responsibility but holding an ICAO CoA do not have the uniform numbering required by this paragraph on their noise certificate.

ANNEX 17 – SECURITY – SAFEGUARDING INTERNATIONAL CIVIL AVIATION AGAINST ACTS OF UNLAWFUL INTERFERENCE

(Twelfth Edition, November 2022, amd. 18)

No differences.

ANNEX 18 – THE SAFE TRANSPORT OF DANGEROUS GOODS BY AIR
(Fourth Edition, July 2011, amd. 12)

- 11.4 *Recommendation:* No detailed provisions for postal operators are implemented. However, Postal Operators needs an approval and are subject to oversight by the Swedish Transport Agency. Detailed provisions for Postal Operators are expected in the next couple of years. **Less protective or partially implemented or not implemented.**

ANNEX 19 – SAFETY MANAGEMENT
(Second Edition, July 2016)

- Chapter 1. Industry codes of practice. Less protective: No formal definition.
Definitions Operational personnel. Less protective: No formal definition.
Safety, Safety performance, Safety performance indicator, safety performance target. Less protective:
No formal definition.

Doc 4444 – PANS-ATM – Procedures for Air Navigation Services – Air Traffic Management.
(Sixteenth Edition, 2016, amd. 12)

Revisions according amendment 12 will be implemented in conjunction to updated EU-regulation.

Chapter 6

6.3.2.4 Phraseology regarding clearance for SID and STAR is not implemented.

6.5.2.4 Phraseology regarding clearance for SID and STAR is not implemented.

Chapter 12 Aerodrome information

12.3.1.11.a Phraseology regarding aerodrome information also include SLIPPERY WET and SPECIALLY PREPARED WINTER RUNWAY

12.3.1.2 Phraseology regarding clearance for SID and STAR is not implemented.
z) to kk)

Appendix 1 Runway braking action not reported according Regulation (EU) No 923/2012
1. Reporting instructions APPENDIX 5 TECHNICAL SPECIFICATIONS RELATED TO AIRCRAFT OBSERVATIONS AND REPORTS BY VOICE COMMUNICATIONS, Section 3.
MODEL
AIREP
SPECIAL
Section 3

Doc 8168 – PANS-OPS – Procedures for Air Navigation Services – Aircraft operations.

Vol I The European rules on Air Operations do not yet address the new ICAO approach classification. Sweden is awaiting future amendments to the European rules on Air Operations. No differences are expected at the end of 2020. **Less protective or partially implemented or not implemented.**

Vol II Part I General. Section 3. Departure procedures. Chapter 3 departure routes.
(Seventh Edition, 2020, amd. 9.)

3.1 General.

3.1.2 b) *The dead reckoning leg of turning departures may exceed 10KM (5.4NM) after turns before track guidance can be expected. The distance approved will be decided individually for each case and published on the approach chart.*

- 3.3 Turning departures.
 3.3.4 Turn parameters, f) bank angle:
Nominal track for turn may be based on maximum bank angle 25° at all altitudes, if the PDG used in the design is at least 6,6 %. Nominal tracks for turns can be used to illustrate a probable route, but are never used for obstacle clearance purposes. Sufficient obstacle clearance is always protected for, based on calculations using PDG 3,3 % alternatively the required minimum PDG for the actual SID, and the less bank angle for the corresponding altitude.

Part I General. Section 4. Arrival and approach procedures. Chapter 2 Arrival segment.

- 2.1 STANDARD INSTRUMENT ARRIVALS
 2.1.1 General
 2.1.1.5 *STAR procedures may end at FAF or FAP.*

Part I General. Section 4. Arrival and approach procedures. Chapter 3 Initial approach segment.

- 3.1 GENERAL
 3.1.3 *The dead reckoning leg for initial approach segment may exceed 19 KM (10 NM) after turns before track guidance can be expected. The distance approved will be decided individually for each case and published on the relevant approach chart.*

Part I General. Section 4 Arrival and approach procedures. Chapter 4 Intermediate approach segment.

- 4.3 INTERMEDIATE APPROACH SEGMENT BASED ON A STRAIGHT TRACK ALIGNMENT
 4.3.1 AREA
 4.3.1.1 *Length*
 4.3.1.1.1 *Intermediate approach segments may be shorter than the specified minimum distances. There is always a flat segment of minimum 1 NM for Cat A and B aircraft, 1,5 NM for Cat C and D aircraft for non-precision approaches, and 2 NM for all categories of aircraft for precision approaches.*

Part I General Section 4 Arrival and approach procedures. Chapter 5 Final approach segment.

- 5.4 OBSTACLE CLEARANCE ALTITUDE/HEIGHT (OCA/H)
 5.4.1.3 *Non-precision approach procedure (straight-in), b) Reference datum.*
OCH for non-precision approaches is always referenced to the RWY THR elevation, even when the THR ELEV is less than 2 m (7 ft) below the AD ELEV.

- 5.4.6.5 Penetration of visual segment surface may, as a complement to publication in AD 2.23, be promulgated with a note on the instrument approach chart saying: "VSS penetrated. See AD 2.23".

Vol II Part II Conventional Procedures, Section 1 Precision Approaches. Chapter 1 instrument landing systems (ILS).

Table Minimum distance between localizer and glide path interceptions.

II-1-1-1

Minimum distance 2 NM between localizer and glide path interceptions may be applied also for CAT C/D/E at intercept angles up to 90 degrees (or within reversal or racetrack).

Vol III Aircraft Operating Procedures

Section 10 The European provisions on Air Operations meets the same objectives but do not address ICAO provisions on
 Chapter 2 the ICAO repository - Location of an Aircraft in Distress Repository (LADR).

Doc 9868 – PANS-TRG – Procedures for Air Navigation Services – Training
 (Third Edition, 2020, amd. 7)

PANS-TGR UPRT application
 RMK. Differences regarding the UPRT application will exist on 13 November 2014 between the provisions of the PANS-TGR documents and the existing EU-regulations (Commission Regulation (EU) No 1178/2011) and practises (additional AMC and GM).

Doc 10066 – PANS-AIM Aeronautical Information Management
 (First Edition, 2018, amd. 3)

Revisions according amendment 3 will be implemented in conjunction to updated EU-regulation.

Chapter 5 According EU regulation (EU) 2017/373

5.2.1.1.3	<p>When the AIP data set (as specified in 5.3.3.1) is provided, the following sections of the AIP may be omitted and reference to the data set availability shall be provided:</p> <ul style="list-style-type: none"> a) GEN 2.5 List of radio navigation aids; b) ENR 2.1 FIR, UIR, TMA and CTA; c) ENR 3.1 Lower ATS routes; d) ENR 3.2 Upper ATS routes; e) ENR 3.3 Area navigation routes; f) ENR 3.4 Helicopter routes; g) ENR 3.5 Other routes; h) ENR 3.6 En-route holding; i) ENR 4.1 Radio navigation aids — en-route; j) ENR 4.2 Special navigation systems; k) ENR 4.4 Name-code designators for significant points; l) ENR 4.5 Aeronautical ground lights – en-route; m) ENR 5.1 Prohibited, restricted and danger areas; n) ENR 5.2 Military exercise and training areas and air defence identification zone (ADIZ); o) ENR 5.3.1 Other activities of a dangerous nature; p) ENR 5.3.2 Other potential hazards; q) ENR 5.5 Aerial sporting and recreational activities; r) ****AD 2.17 Air traffic services airspace; s) **** AD 2.19 Radio navigation and landing aids; t) **** AD 3.16 Air traffic services airspace; and u) **** AD 3.18 Radio navigation and landing aids.
Appendix 1	<p>According EU regulation (EU) 2017/373 Appendix 1 to Annex III</p>
Table A1-1	1. Aerodrome data
Table A1-3	3. ATS Route
Table A1-5	5. Radio navigation aids/systems data
Appendix 2 PART 2 — EN-ROUTE (ENR)	<p>According EU regulation (EU) 2017/373 Appendix 1 to Annex III PART 2 – EN-ROUTE (ENR)</p>
Appendix 2 PART 3- AERODRO- MES (AD) AD 2.19	<p>According EU regulation (EU) 2017/373 Appendix 1 to Annex III PART 3 – AERODROMES (AD)</p>
Appendix 2 PART 3 — AERODRO- MES (AD)	<p>According EU regulation (EU) 2017/373 Appendix 1 to Annex III PART 3 – AERODROMES (AD)</p>
AD 2.25	Not implemented

2.4 Platsindikatorer / Location indicators

» Inte ansluten till AFTN / Not connected to the AFTN

1 Platsindikatorer efter plats / Location indicators by Location

Location	Indicator		Location	Indicator	
AFTN-central/AFTN-centre	ESSS		GÖTEBORG/Landvetter	ESGG	
ALINGSÅS	ESGI	»	GÖTEBORG/Sahlgrenska sjukhuset	ESHS	»
ANDERSTORP	ESMP	»	GÖTEBORG/Säve	ESGP	
ARBOGA	ESQO	»	GÖTEBORG/Östra sjukhuset	ESHB	»
ARBRÅ	ESUB	»	GÖTENE/Brännebrona	ESGN	»
ARVIDSJAUR	ESNX		GÖVIKEN/Helikopterflygplats	ESJH	»
ARVIKA	ESKV	»	HAGFORS	ESOH	
AVESTA	ESVA	»	HAGSHULT	ESMV	»
BOLLNÄS/Sjukhuset	ESJB	»	HALLVIKEN	ESNA	»
BORGLANDA	ESMB	»	HALMSTAD	ESMT	
BORLÄNGE	ESSD		HEDE/Hedlanda	ESNC	»
BORÅS	ESGE	»	HEMAVAN TÄRNABY	ESUT	
BORÅS/Borås sjukhus	ESEB	»	HERRLJUNGA	ESGH	»
BRATTFORSHEDEN	ESSM	»	HUDIKSVALL	ESNH	»
BUNGE	ESVB	»	HUDIKSVALL/Sjukhuset	ESHX	»
BÄCKEFORS/Dalslands sjukhus	ESJD	»	HULTSFRED-VIMMERBY	ESSF	»
DALA-JÄRNA	ESKD	»	HÄLLEFORS	ESVH	»
EDSBYEN	ESUY	»	HÄRNÖSAND/Myran	ESUH	»
EKSHÄRAD	ESKH	»	HÄSSLEHOLM/Bokeberg	ESFA	»
EKSJÖ/Ränneslätt	ESMC	»	HÖGANÄS	ESMH	»
ENKÖPING/Långtora	ESVL	»	IDRE	ESUE	»
ESKILSTUNA	ESSU		JOKKMOKK	ESNJ	»
ESKILSTUNA/Ekeby	ESSC	»	JÖNKÖPING	ESGJ	
ESLÖV	ESME	»	JÖNKÖPING/Ryhov sjukhus	ESHJ	»
FAGERHULT	ESMF	»	KALMAR	ESMQ	
FALKENBERG/Morup	ESGF	»	KARLSBORG	ESIA	
FALKÖPING	ESGK	»	KARLSKOGA	ESKK	
FALUN/Falu lasarett	ESEF	»	KARLSKRONA/Blekingesjukhuset	ESHN	»
FJÄLLBACKA	ESTF	»	KARLSTAD	ESOK	
Flygräddningscentral/ Aeronautical Rescue Co-ordination Centre (ARCC)	ESOR		KARLSTAD/Centralsjukhuset	ESHV	»
FM Hkv	ESCC		KATRINEHOLM	ESVK	»
GAGNEF	ESVG	»	KIRUNA	ESNQ	
GARGNÄS	ESUG	»	KIRUNA/Kiruna sjukhus	ESEQ	»
GNESTA/Vängsö	ESSZ	»	KIRUNA/Luossajärvi	ESEK	»
GRYTTJOM	ESKG	»	KRAMFORS-SOLLEFTEÅ	ESNK	
GÄLLIVARE	ESNG		Kriegers Flak A	ESEX	»
GÄLLIVARE/Gällivare sjukhus	ESHA	»	Kriegers Flak B	ESEZ	»
GÄLLIVARE/Vassara	ESEG	»	KRISTIANSTAD	ESMK	
GÄVLE	ESSK	»	KUNGÄLV/Kungälv's sjukhus	ESHM	»
GÄVLE/Sjukhuset	ESJA	»	KÄGERÖD	ESMJ	»
			KÖPING	ESVQ	»
			LANDSKRONA	ESML	»

Location	Indicator	
LFV	ESKL	
LIDKÖPING	ESGL	»
LINKÖPING/Malmen	ESCF	
LINKÖPING/Saab	ESSL	
LINKÖPING/US Linköping helikopterflygplats	ESJL	»
LJUNGBY/Feringe	ESMG	»
LJUNGBYHED	ESTL	
LJUSDAL	ESUL	»
LUDVIKA	ESSG	»
LULEÅ/Kallax	ESPA	
LULEÅ/Sunderby sjukhuset	ESES	»
LUND/Skånes universitetssjukhus	ESEM	»
LYCKSELE	ESNL	
LYCKSELE/Sjukhuset	ESEY	»
MALMÖ	ESMS	
MALMÖ ACC	ESMM	
MALUNG/Skinnlanda	ESVM	»
MELLANSEL	ESUI	»
MOHED	ESUM	»
MORA/Mora lasarett	ESJM	»
MORA/Siljan	ESKM	
MUNKFORS	ESKO	»
NORRKÖPING/Kungsängen	ESSP	
NORRTÄLJE	ESSN	»
NORRTÄLJE/Sjukhuset	ESHY	»
OPTAND	ESNM	»
ORSA	ESNR	»
OSKARSHAMN	ESMO	»
OVIKEN	ESUO	»
PAJALA	ESUP	
PITEÅ	ESNP	»
RAMSELE	ESUR	»
RONNEBY	ESDF	
RTC STOCKHOLM	ESSR	
RÅDA	ESFR	»
SANDVIK	ESFS	»
SILJANSNÄS	ESVS	»
SJÖBO SÖVDE	ESMI	»
SKELLEFTEÅ	ESNS	
SKELLEFTEÅ LASARETT	ESJS	»
SKÖVDE	ESGR	»
SKÖVDE/Kärnsjukhuset	ESHO	»
SMÅLANDSSTENAR	ESMY	»
SOLLEFTEÅ	ESNB	»
Statens haverikommission (SHK)/ Swedish Accident Investigation Authority	ESKI	»

Location	Indicator	
STEGEBORG	ESVE	»
STOCKHOLM ACC	ESOS	
Stockholm Radio	ESKR	
STOCKHOLM/Arlanda	ESSA	
STOCKHOLM/Bromma	ESSB	
STOCKHOLM/Danderyds sjukhus	ESHD	»
STOCKHOLM/Gamla Stan	ESHG	»
STOCKHOLM/Gärdet	ESHT	»
STOCKHOLM/Huddinge sjukhus	ESHL	»
STOCKHOLM/Karolinska Universitetssjukhuset Solna	ESHK	»
STOCKHOLM/Skavsta	ESKN	
STOCKHOLM/Skå-Edeby	ESSE	»
STOCKHOLM/Södersjukhuset	ESHC	»
STOCKHOLM/Västerås	ESOW	
STORUMAN	ESUD	»
STORVIK/Lemstanäs	ESOL	»
StriC M	ESCR	
StriC N	ESPF	
StriC S	ESDK	
STRÖMSTAD/Näsinge	ESGS	»
SUNDBRO	ESKC	»
SUNDSVALL/Länssjukhuset	ESED	»
SUNDSVALL-TIMRÅ	ESNN	
SUNNE	ESKU	»
SVEG	ESND	
Sveriges Meteorologiska och Hydrologiska Institut, SMHI/ Swedish Meteorological and Hydrological Institute	ESWI	
SWEDEN FIR	ESAA	
SÄTENÄS	ESIB	
SÄFFLE	ESGY	»
SÄLEN/Scandinavian Mountains	ESKS	
SÖDERHAMN	ESNY	»
TIDAHOLM/Bämmelshed	ESGD	»
TIERP	ESKT	»
TORSBY	ESST	
TORSBY/Torsby sjukhus	ESET	»
Transportstyrelsen/ Swedish Transport Agency	ESAL	
TROLLHÄTTAN/NÄL sjukhus	ESEN	»
TROLLHÄTTAN-VÄNERSBORG	ESGT	
UDDEVALLA/Backamo	ESGA	»
UDDEVALLA/Rörkärr	ESGU	»
UMEÅ	ESNU	
UMEÅ/Universitetssjukhuset	ESHZ	»
UPPSALA	ESCM	
UPPSALA/Akademiska sjukhuset	ESHU	»

Location	Indicator	
VARBERG	ESGV	»
VELLINGE	ESTT	»
VIDSEL	ESPE	
VILHELMINA	ESNV	
VISBY	ESSV	
VISBY/Sjukhuset	ESEV	»
VISINGSÖ	ESSI	»
VÄRGÅRDA	ESGO	»
VÄSTERVIK	ESSW	»
VÄSTERÅS/Johannisberg	ESSX	»
VÄSTERÅS/Västmanlands sjukhus	ESEW	»
VÄXJÖ/Kronoberg	ESMX	
ÅKERSBERGA	ESHR	»
ÄLLEBERG	ESGC	»
ÄNGE/Tälje	ESUJ	»
ÄRE ÖSTERSUND	ESNZ	
ÄSELE	ESUS	»
ÄVIKEN/Äviken Fly Camp	ESNF	»
ÄLMHULT/Möckeln	ESMU	»
ÄLVSBY	ESUV	»
ÄNGELHOLM	ESTA	
ÖLANDA	ESMZ	»
ÖREBRO	ESOE	
ÖREBRO/Universitetssjukhuset	ESHQ	»
ÖRESTEN	ESGM	»
ÖRNSKÖLDSEVIK	ESNO	

2 Platsindikatorer efter indikator / Location indicators by Indicator

Indicator		Location
ESAA		SWEDEN FIR
ESAL		Transportstyrelsen/ Swedish Transport Agency
ESCC		FM Hkv
ESCF		LINKÖPING/Malmen
ESCM		UPPSALA
ESCR		StriC M
ESDF		RONNEBY
ESDK		StriC S
ESEB	»	BORÅS/Borås sjukhus
ESED	»	SUNDSVALL/Länssjukhuset
ESEF	»	FALUN/Falu lasarett
ESEG	»	GÄLLIVARE/Vassara
ESEK	»	KIRUNA/Luossajärvi
ESEM	»	LUND/Skånes universitetssjukhus
ESEN	»	TROLLHÄTTAN/NÄL sjukhus
ESEQ	»	KIRUNA/Kiruna sjukhus
ESES	»	LULEÅ/Sunderby sjukhuset
ESET	»	TORSBY/Torsby sjukhus
ESEV	»	VISBY/Sjukhuset
ESEW	»	VÄSTERÅS/Västmanlands sjukhus
ESEX	»	Kriegers Flak A
ESEY	»	LYCKSELE/Sjukhuset
ESEZ	»	Kriegers Flak B
ESFA	»	HÄSSLEHOLM/Bokeberg
ESFR	»	RÅDA
ESFS	»	SANDVIK
ESGA	»	UDDEVALLA/Backamo
ESGC	»	ÄLLEBERG
ESGD	»	TIDAHOLM/Bämmelshed
ESGE	»	BORÅS
ESGF	»	FALKENBERG/Morup
ESGG		GÖTEBORG/Landvetter
ESGH	»	HERRLJUNGA
ESGI	»	ALINGSÅS
ESGJ		JÖNKÖPING
ESGK	»	FALKÖPING
ESGL	»	LIDKÖPING
ESGM	»	ÖRESTEN
ESGN	»	GÖTENE/Brännebrona
ESGO	»	VÅRGÅRDA
ESGP		GÖTEBORG/Säve
ESGR	»	SKÖVDE
ESGS	»	STRÖMSTAD/Näsinge
ESGT		TROLLHÄTTAN-VÄNERSBORG

Indicator		Location
ESGU	»	UDDEVALLA/Rörkärr
ESGV	»	VARBERG
ESGY	»	SÄFFLE
ESHA	»	GÄLLIVARE/Gällivare sjukhus
ESHB	»	GÖTEBORG/Östra sjukhuset
ESHC	»	STOCKHOLM/Södersjukhuset
ESHD	»	STOCKHOLM/Danderyds sjukhus
ESHG	»	STOCKHOLM/Gamla Stan
ESHJ	»	JÖNKÖPING/Ryhov sjukhus
ESHK	»	STOCKHOLM/Karolinska Universitetssjukhuset Solna
ESHL	»	STOCKHOLM/Huddinge sjukhus
ESHM	»	KUNGÄLV/Kungälv's sjukhus
ESHN	»	KARLSKRONA/Blekingesjukhuset
ESHO	»	SKÖVDE/Kärnsjukhuset
ESHQ	»	ÖREBRO/Universitetssjukhuset
ESHR	»	ÅKERSBERGA
ESHS	»	GÖTEBORG/Sahlgrenska sjukhuset
ESHT	»	STOCKHOLM/Gärdet
ESHU	»	UPPSALA/Akademiska sjukhuset
ESHV	»	KARLSTAD/Centralsjukhuset
ESHX	»	HUDIKSVALL/Sjukhuset
ESHY	»	NORRTÄLJE/Sjukhuset
ESHZ	»	UMEÅ/Universitetssjukhuset
ESIA		KARLSBORG
ESIB		SÄTENÄS
ESJA	»	GÄVLE/Sjukhuset
ESJB	»	BOLLNÄS/Sjukhuset
ESJD	»	BÄCKEFORS/Dalslands sjukhus
ESJH	»	GÖVIKEN/Helikopterflygplats
ESJL	»	LINKÖPING/US Linköping helikopterflygplats
ESJM	»	MORA/Mora lasarett
ESJS	»	SKELLEFTEÅ LASARETT
ESKC	»	SUNDBRO
ESKD	»	DALA-JÄRNA
ESKG	»	GRYTTJOM
ESKH	»	EKSHÄRAD
ESKI	»	Statens haverikommission (SHK)/ Swedish Accident Investigation Authority
ESKK		KARLSKOGA
ESKL		LFV
ESKM		MORA/Siljan
ESKN		STOCKHOLM/Skavsta
ESKO	»	MUNKFORS

2.5 Förteckning över radionavigationshjälpmedel / List of radio navigation aids

Purpose

A = Aerodrome radio navigation aid

E = En route radio navigation aid

1 Radionavigationshjälpmedel efter ID / Radio navigation aids by ID

ID	Station	Facility	Purpose	ID	Station	Facility	Purpose
AB	HAGFORS	L	A	FM	TROLLHÄTTAN	L	A
AH	ÄNGELHOLM	L	A	FRL	FÄRILA	DME	E
AN	ARVIDSJAUR	L	A	HGG	LANDVETTER	DME	A
ANE	ARLANDA	DME	A	HMR	HAMMAR	DVOR/DME	E
ANW	ARLANDA	DME	A	HOT	HOTING	DME	E
ARL	ARLANDA	DVOR/DME	AE	HT	HAGFORS	L	A
ARS	AROS	DVOR/DME	AE	IBC	SÄTENÄS	DME	A
ARV	ARVIDSJAUR	DME	AE	IBC	SÄTENÄS	ILS	A
ARV	ARVIDSJAUR	ILS	A	IBT	SÄTENÄS	DME	A
AS	ARVIDSJAUR	L	A	IBT	SÄTENÄS	ILS	A
ASE	ARLANDA	DME	A	IHF	HAGFORS	DME	A
ASW	ARLANDA	DME	A	IHF	HAGFORS	ILS	A
BAK	BACKA	DME	E	IND	SVEG	DME	A
BGE	BUNGE	DME	E	IND	SVEG	ILS	A
BL	BORLÄNGE	L	A	INV	VILHELMINA	DME	A
BOR	BORLÄNGE	VOR/DME	AE	INV	VILHELMINA	ILS	A
CFB	LINKÖPING/Malmen	DME	A	IUP	PAJALA	DME	A
CFB	LINKÖPING/Malmen	ILS	A	IUP	PAJALA	ILS	A
CFE	LINKÖPING/Malmen	DME	A	IUT	HEMAVAN	DME	A
CFE	LINKÖPING/Malmen	ILS	A	IUT	HEMAVAN	ILS	A
CM	UPPSALA	DME	A	JON	JÖNKÖPING	DVOR/DME	AE
CM	UPPSALA	ILS	A	JX	VÄXJÖ	NDB	A
COR	CORNER	NDB	A	KAL	KALMAR	VOR/DME	AE
DA	LJUNGBYHED	DME	A	KBG	KARLSBORG	NDB	A
DA	LJUNGBYHED	ILS	A	KD	KRISTIANSTAD	L	A
DB	ÄNGELHOLM	DME	A	KG	KRAMFORS	L	A
DB	ÄNGELHOLM	ILS	A	KRA	KIRUNA	DVOR/DME	AE
DD	LYCKSELE	L	A	KSD	KARLSTAD	VOR/DME	AE
DF	RONNEBY	DME	A	KSP	NORRKÖPING	DME	A
DF	RONNEBY	ILS	A	KSP	NORRKÖPING	ILS	A
DJ	ÖSTERSUND	L	A	LAV	LANDVETTER	DVOR/DME	AE
DK	VILHELMINA	L	A	LB	ÄNGELHOLM	L	A
EKN	STOCKHOLM/Skavsta	DME	A	LCF	LINKÖPING/Malmen	L	A
EKN	STOCKHOLM/Skavsta	ILS	A	LE	STOCKHOLM/Västerås	L	A
EN	ÖREBRO	NDB	A	LG	SÄTENÄS	L	A
ERK	ERKEN	NDB	A	LM	BORLÄNGE	L	A
ESA	ARLANDA	DME	A	LNA	LENA	NDB	A
ESA	STOCKHOLM/Arlanda	ILS	A	LSL	LINKÖPING/SAAB	DME	A
FEN	FENGERSFORS	DME	E	LSL	LINKÖPING/SAAB	ILS	A
FK	KRAMFORS	LOC	A	LT	HALMSTAD	L	A

ID	Station	Facility	Purpose
LUE	LUNDE	NDB	A
LX	ESKILSTUNA	L	A
MBL	MÖRBYLÅNGA	DME	E
MF	HALMSTAD	L	A
MK	KRISTIANSTAD	DME	A
MK	KRISTIANSTAD	ILS	A
MQ	KALMAR	DME	A
MQ	KALMAR	ILS	A
MT	HALMSTAD	DME	A
MT	HALMSTAD	ILS	A
MX	VÄXJÖ	DME	A
MX	VÄXJÖ	ILS	A
NAT	NATTA	VOR/DME	E
NDF	RONNEBY	DME	A
NDF	RONNEBY	ILS	A
NG	GÄLLIVARE	DME	A
NG	GÄLLIVARE	ILS	A
NGG	GÖTEBORG/Landvetter	ILS	A
NK	KRAMFORS	DME	A
NK	KRAMFORS	ILS	A
NKM	MORA	ILS	A
NKS	KARLSTAD	L	A
NL	GÖTEBORG/Landvetter	L	A
NL	LYCKSELE	DME	A
NL	LYCKSELE	LOC	A
NM	MORA	L	A
NMS	MALMÖ	ILS	A
NMS	STURUP	DME	A
NNN	SUNDSVALL	DME	A
NNN	SUNDSVALL	ILS	A
NO	ÖRNSKÖLDSVIK	DME	A
NO	ÖRNSKÖLDSVIK	ILS	A
NOE	ÖREBRO	DME	A
NOE	ÖREBRO	ILS	A
NOK	KARLSTAD	ILS	A
NQ	KIRUNA	DME	A
NQ	KIRUNA	ILS	A
NS	SKELLEFTEÅ	DME	A
NS	SKELLEFTEÅ	ILS	A
NSA	ARLANDA	DME	A
NSA	STOCKHOLM/Arlanda	ILS	A
NST	TORSBY	DME	A
NST	TORSBY	LOC	A
NU	UMEÅ	DME	A
NU	UMEÅ	ILS	A
NUT	HEMAVAN	L	A
NV	VILHELMINA	L	A

ID	Station	Facility	Purpose
NW	STOCKHOLM/Skavsta	L	A
NX	ARVIDSJAUR	DME	A
NX	ARVIDSJAUR	ILS	A
OA	JÖNKÖPING	L	A
OD	ÖRNSKÖLDSVIK	L	A
OEM	KRISTIANSTAD	NDB	A
OG	GÄLLIVARE	LO	A
OJ	JÖNKÖPING	L	A
OL	LULEÅ	L	A
OL	LYCKSELE	LO	A
ON	NORRKÖPING	L	A
OO	ÖRNSKÖLDSVIK	L	A
OP	KIRUNA	L	A
OSK	ÖRNSKÖLDSVIK	VOR/DME	AE
OSS	ÖSTERSUND	DVOR/DME	AE
OY	SVEG	LO	A
PA	LULEÅ	ILS	A
PAJ	PAJALA	L	A
PC	ÖSTERSUND	DME	A
PC	ÖSTERSUND	ILS	A
PEO	STOCKHOLM/Skavsta	L	A
PG	TROLLHÄTTAN	L	A
PGG	LANDVETTER	DME	A
PJL	PAJALA	DME	E
RAE	RAMSELE	DME	E
RB	ÖREBRO	NDB	A
RD	STOCKHOLM/Västerås	L	A
ROE	RØNNE	VOR	E
RON	RONNEBY	DME	AE
SAE	SÄLEN	DME	A
SAE	SÄLEN	ILS	A
SAL	SÄLEN	DME	A
SAL	SÄLEN	ILS	A
SB	STOCKHOLM/Bromma	DME	A
SB	STOCKHOLM/Bromma	ILS	A
SBA	STOCKHOLM/Bromma	DME	A
SBA	STOCKHOLM/Bromma	ILS	A
SCD	STOCKHOLM/Västerås	DME	A
SCD	STOCKHOLM/Västerås	ILS	A
SD	BORLÄNGE	DME	A
SD	BORLÄNGE	ILS	A
SDH	LANDVETTER	DME	A
SG	SÄTENÄS	L	A
SGG	GÖTEBORG/Landvetter	ILS	A
SGJ	JÖNKÖPING	DME	A
SGJ	JÖNKÖPING	ILS	A
SJ	JÖNKÖPING	ILS	A

ID	Station	Facility	Purpose
SKA	SKELLEFTEÅ	DVOR/DME	AE
SKS	KARLSTAD	L	A
SL	GÖTEBORG/Landvetter	L	A
SL	LINKÖPING/SAAB	DME	A
SL	LINKÖPING/SAAB	ILS	A
SLU	LULEÅ	VOR/DME	AE
SM	MORA	L	A
SMS	MALMÖ	ILS	A
SMS	STURUP	DME	A
SMX	VÄXJÖ	LOC	A
SNN	SUNDSVALL	DME	A
SNN	SUNDSVALL	ILS	A
SNU	UMEÅ	DME	A
SNU	UMEÅ	ILS	A
SOE	ÖREBRO	ILS	A
SOK	KARLSTAD	ILS	A
SP	NORRKÖPING	DME	A
SP	NORRKÖPING	ILS	A
SPA	LULEÅ	DME	A
SPA	LULEÅ	ILS	A
SPO	SOPPERO	DME	E
SSA	ARLANDA	DME	A
SSA	STOCKHOLM/Arlanda	ILS	A
ST	TORSBY	LOC	A
SU	ESKILSTUNA	DME	A
SU	ESKILSTUNA	ILS	A
SUM	STORUMAN	DVOR/DME	E
SUN	SUNDSVALL	DVOR/DME	AE
SUP	STURUP	VOR/DME	AE
SUT	HEMAVAN	L	A
SV	VISBY	DME	A
SV	VISBY	ILS	A
SVD	SVEDA	DME	E
SVE	SVEG	DME	AE
TEB	TEBBY	DVOR/DME	E
TG	GÄLLIVARE	L	A
TH	TORSBY	L	A
TRH	TROLLHÄTTAN	ILS	A
TRS	TROSA	DVOR/DME	E
TSA	ARLANDA	DME	A
TSA	STOCKHOLM/Arlanda	ILS	A
TY	TORSBY	L	A
UME	UMEÅ	VOR/DME	AE
UP	UPPSALA	L	A
USA	ARLANDA	DME	A
USA	STOCKHOLM/Arlanda	ILS	A
VNA	VANJA	NDB	A

ID	Station	Facility	Purpose
VSB	VISBY	VOR/DME	AE
VSN	VASSEN	DVOR/DME	E
VX	VÄXJÖ	NDB	A
WA	STOCKHOLM/Arlanda	L	A
WEK	STOCKHOLM/Skavsta	DME	A
WEK	STOCKHOLM/Skavsta	LOC	A
WL	LYCKSELE	DME	A
WL	LYCKSELE	ILS	A
WSA	STOCKHOLM/Arlanda	LOC	A
WU	UMEÅ	L	A

2 Radionavigationshjälpmedel efter stationsnamn / Radio navigation aids by station

Station	Facility	ID	Purpose
ARLANDA	DME	ANE	A
ARLANDA	DME	ANW	A
ARLANDA	DVOR/DME	ARL	AE
ARLANDA	DME	ASE	A
ARLANDA	DME	ASW	A
ARLANDA	DME	ESA	A
ARLANDA	DME	NSA	A
ARLANDA	DME	SSA	A
ARLANDA	DME	TSA	A
ARLANDA	DME	USA	A
AROS	DVOR/DME	ARS	AE
ARVIDSJAUR	L	AN	A
ARVIDSJAUR	DME	ARV	AE
ARVIDSJAUR	ILS	ARV	A
ARVIDSJAUR	L	AS	A
ARVIDSJAUR	DME	NX	A
ARVIDSJAUR	ILS	NX	A
BACKA	DME	BAK	E
BORLÄNGE	L	BL	A
BORLÄNGE	VOR/DME	BOR	AE
BORLÄNGE	L	LM	A
BORLÄNGE	DME	SD	A
BORLÄNGE	ILS	SD	A
BUNGE	DME	BGE	E
CORNER	NDB	COR	A
ERKEN	NDB	ERK	A
ESKILSTUNA	L	LX	A
ESKILSTUNA	DME	SU	A
ESKILSTUNA	ILS	SU	A
FENGERSFORS	DME	FEN	E
FÄRILA	DME	FRL	E
GÄLLIVARE	DME	NG	A
GÄLLIVARE	ILS	NG	A
GÄLLIVARE	LO	OG	A
GÄLLIVARE	L	TG	A
GÖTEBORG/Landvetter	ILS	NGG	A
GÖTEBORG/Landvetter	L	NL	A
GÖTEBORG/Landvetter	ILS	SGG	A
GÖTEBORG/Landvetter	L	SL	A
HAGFORS	L	AB	A
HAGFORS	L	HT	A
HAGFORS	DME	IHF	A
HAGFORS	ILS	IHF	A
HALMSTAD	L	LT	A

Station	Facility	ID	Purpose
HALMSTAD	L	MF	A
HALMSTAD	DME	MT	A
HALMSTAD	ILS	MT	A
HAMMAR	DVOR/DME	HMR	E
HEMAVAN	DME	IUT	A
HEMAVAN	ILS	IUT	A
HEMAVAN	L	NUT	A
HEMAVAN	L	SUT	A
HOTING	DME	HOT	E
JÖNKÖPING	DVOR/DME	JON	AE
JÖNKÖPING	L	OA	A
JÖNKÖPING	L	OJ	A
JÖNKÖPING	DME	SGJ	A
JÖNKÖPING	ILS	SGJ	A
JÖNKÖPING	ILS	SJ	A
KALMAR	VOR/DME	KAL	AE
KALMAR	DME	MQ	A
KALMAR	ILS	MQ	A
KARLSBORG	NDB	KBG	A
KARLSTAD	VOR/DME	KSD	AE
KARLSTAD	L	NKS	A
KARLSTAD	ILS	NOK	A
KARLSTAD	L	SKS	A
KARLSTAD	ILS	SOK	A
KIRUNA	DVOR/DME	KRA	AE
KIRUNA	DME	NQ	A
KIRUNA	ILS	NQ	A
KIRUNA	L	OP	A
KRAMFORS	LOC	FK	A
KRAMFORS	L	KG	A
KRAMFORS	DME	NK	A
KRAMFORS	ILS	NK	A
KRISTIANSTAD	L	KD	A
KRISTIANSTAD	DME	MK	A
KRISTIANSTAD	ILS	MK	A
KRISTIANSTAD	NDB	OEM	A
LANDVETTER	DME	HGG	A
LANDVETTER	DVOR/DME	LAV	AE
LANDVETTER	DME	PGG	A
LANDVETTER	DME	SDH	A
LENA	NDB	LNA	A
LINKÖPING/Malmen	DME	CFB	A
LINKÖPING/Malmen	ILS	CFB	A
LINKÖPING/Malmen	DME	CFE	A

Station	Facility	ID	Purpose
LINKÖPING/Malmen	ILS	CFE	A
LINKÖPING/Malmen	L	LCF	A
LINKÖPING/SAAB	DME	LSL	A
LINKÖPING/SAAB	ILS	LSL	A
LINKÖPING/SAAB	DME	SL	A
LINKÖPING/SAAB	ILS	SL	A
LJUNGBYHED	DME	DA	A
LJUNGBYHED	ILS	DA	A
LULEÅ	L	OL	A
LULEÅ	ILS	PA	A
LULEÅ	VOR/DME	SLU	AE
LULEÅ	DME	SPA	A
LULEÅ	ILS	SPA	A
LUNDE	NDB	LUE	A
LYCKSELE	L	DD	A
LYCKSELE	DME	NL	A
LYCKSELE	LOC	NL	A
LYCKSELE	LO	OL	A
LYCKSELE	DME	WL	A
LYCKSELE	ILS	WL	A
MALMÖ	ILS	NMS	A
MALMÖ	ILS	SMS	A
MORA	ILS	NKM	A
MORA	L	NM	A
MORA	L	SM	A
MÖRBYLÅNGA	DME	MBL	E
NATTA	VOR/DME	NAT	E
NORRKÖPING	DME	KSP	A
NORRKÖPING	ILS	KSP	A
NORRKÖPING	L	ON	A
NORRKÖPING	DME	SP	A
NORRKÖPING	ILS	SP	A
PAJALA	DME	IUP	A
PAJALA	ILS	IUP	A
PAJALA	L	PAJ	A
PAJALA	DME	PJL	E
RAMSELE	DME	RAE	E
RONNEBY	DME	DF	A
RONNEBY	ILS	DF	A
RONNEBY	DME	NDF	A
RONNEBY	ILS	NDF	A
RONNEBY	DME	RON	AE
RØNNE	VOR	ROE	E
SKELLEFTEÅ	DME	NS	A
SKELLEFTEÅ	ILS	NS	A
SKELLEFTEÅ	DVOR/DME	SKA	AE
SOPPERO	DME	SPO	E

Station	Facility	ID	Purpose
STOCKHOLM/Arlanda	ILS	ESA	A
STOCKHOLM/Arlanda	ILS	NSA	A
STOCKHOLM/Arlanda	ILS	SSA	A
STOCKHOLM/Arlanda	ILS	TSA	A
STOCKHOLM/Arlanda	ILS	USA	A
STOCKHOLM/Arlanda	L	WA	A
STOCKHOLM/Arlanda	LOC	WSA	A
STOCKHOLM/Bromma	DME	SB	A
STOCKHOLM/Bromma	ILS	SB	A
STOCKHOLM/Bromma	DME	SBA	A
STOCKHOLM/Bromma	ILS	SBA	A
STOCKHOLM/Skavsta	DME	EKN	A
STOCKHOLM/Skavsta	ILS	EKN	A
STOCKHOLM/Skavsta	L	NW	A
STOCKHOLM/Skavsta	L	PEO	A
STOCKHOLM/Skavsta	DME	WEK	A
STOCKHOLM/Skavsta	LOC	WEK	A
STOCKHOLM/Västerås	L	LE	A
STOCKHOLM/Västerås	L	RD	A
STOCKHOLM/Västerås	DME	SCD	A
STOCKHOLM/Västerås	ILS	SCD	A
STORUMAN	DVOR/DME	SUM	E
STURUP	DME	NMS	A
STURUP	DME	SMS	A
STURUP	VOR/DME	SUP	AE
SUNDSVALL	DME	NNN	A
SUNDSVALL	ILS	NNN	A
SUNDSVALL	DME	SNN	A
SUNDSVALL	ILS	SNN	A
SUNDSVALL	DVOR/DME	SUN	AE
SVEDA	DME	SVD	E
SVEG	DME	IND	A
SVEG	ILS	IND	A
SVEG	LO	OY	A
SVEG	DME	SVE	AE
SÅTENÅS	DME	IBC	A
SÅTENÅS	ILS	IBC	A
SÅTENÅS	DME	IBT	A
SÅTENÅS	ILS	IBT	A
SÅTENÅS	L	LG	A
SÅTENÅS	L	SG	A
SÄLEN	DME	SAE	A
SÄLEN	ILS	SAE	A
SÄLEN	DME	SAL	A
SÄLEN	ILS	SAL	A
TEBBY	DVOR/DME	TEB	E
TORSBY	DME	NST	A

Station	Facility	ID	Purpose
TORSBY	LOC	NST	A
TORSBY	LOC	ST	A
TORSBY	L	TH	A
TORSBY	L	TY	A
TROLLHÄTTAN	L	FM	A
TROLLHÄTTAN	L	PG	A
TROLLHÄTTAN	ILS	TRH	A
TROSA	DVOR/DME	TRS	E
UMEÅ	DME	NU	A
UMEÅ	ILS	NU	A
UMEÅ	DME	SNU	A
UMEÅ	ILS	SNU	A
UMEÅ	VOR/DME	UME	AE
UMEÅ	L	WU	A
UPPSALA	DME	CM	A
UPPSALA	ILS	CM	A
UPPSALA	L	UP	A
VANJA	NDB	VNA	A
VASSEN	DVOR/DME	VSN	E
VILHELMINA	L	DK	A
VILHELMINA	DME	INV	A
VILHELMINA	ILS	INV	A
VILHELMINA	L	NV	A
VISBY	DME	SV	A
VISBY	ILS	SV	A

Station	Facility	ID	Purpose
VISBY	VOR/DME	VSB	AE
VÄXJÖ	NDB	JX	A
VÄXJÖ	DME	MX	A
VÄXJÖ	ILS	MX	A
VÄXJÖ	LOC	SMX	A
VÄXJÖ	NDB	VX	A
ÄNGELHOLM	L	AH	A
ÄNGELHOLM	DME	DB	A
ÄNGELHOLM	ILS	DB	A
ÄNGELHOLM	L	LB	A
ÖREBRO	NDB	EN	A
ÖREBRO	DME	NOE	A
ÖREBRO	ILS	NOE	A
ÖREBRO	NDB	RB	A
ÖREBRO	ILS	SOE	A
ÖRNSKÖLDSEVIK	DME	NO	A
ÖRNSKÖLDSEVIK	ILS	NO	A
ÖRNSKÖLDSEVIK	L	OD	A
ÖRNSKÖLDSEVIK	L	OO	A
ÖRNSKÖLDSEVIK	VOR/DME	OSK	AE
ÖSTERSUND	L	DJ	A
ÖSTERSUND	DVOR/DME	OSS	AE
ÖSTERSUND	DME	PC	A
ÖSTERSUND	ILS	PC	A

3.3 Flygtrafikledningstjänster (ATS)

1 Ansvarig myndighet

Ansvarig myndighet för flygtrafikledningen är Transport-styrelsen.

Postal address:

Telephone:

Fax:

E-mail:

AFS address:

Website:

Transportstyrelsen
SE-601 73 Norrköping

+46 (0)771 503 503

+46 (0)11 18 52 56

transportstyrelsen@transportstyrelsen.se

ESALYAYX

www.transportstyrelsen.se

Flygtrafikledningen i Sverige är organiserad i enlighet med Annex 11 »Air Traffic Services ».

Gällande trafikregler och ATS-föreskrifter överensstämmer i huvudsak med ICAO Standardbestämmelser, Rekommendationer och Föreskrifter.

2 Geografiskt ansvarsområde

Flygtrafikledningstjänst utövas inom Sweden FIR.

Anm. Inom RØNNE TMA och CTR utövas flygtrafikledningstjänst under 4500 ft AMSL av Danmark.

3 Serviceutbud

Övervakningstjänst ingår som integrerad del av ATS-systemet.

Vid vissa icke kontrollerade flygplatser tillhandahålls *flyginformationstjänst för flygplats* (AFIS). Denna tjänst utövas av AFIS-enhet. Sådan enhet lämnar upplysningar av betydelse för luftfartyg angående känd flygtrafik, väderförhållanden samt förhållanden på flygplatsen. AFIS-enhet identifieras genom namnet på vederbörande flygplats följt av ordet »INFORMATION ».

Anm. Vid några flygplatser tillämpas differentierat ATS-tjänsteutbud, d v s under vissa tider utövas flygkontrolltjänst (TWR), under andra tider flyginformationstjänst för flygplats (AFIS).

Flygrådgivningstjänst utövas inte inom Sweden FIR, utom när sådan tjänst tillkännagivits genom AIP SUP.

4 Samordning mellan flygtrafikledningens enheter och flygoperatörer

Samordningen mellan flygtrafikledningens enheter och flygoperatörer tillhandahålls i enlighet med ICAO Annex 11 mom 2.16.

5 Lägsta flyghöjd

a) Uppgift om aktuella QNH-värden och temperaturer lämnas av vederbörande ATS-enheter på begäran samt beträffande vissa flygplatser även i meteorologiska CQ-utsändningar enligt GEN 3.5. I GAMET (områdesprognos för låghöjdsflygning i textform) finns lägsta QNH för respektive område och period angivet.

3.3 Air traffic services (ATS)

1 Responsible authority

The authority responsible for provision of air traffic services is the Swedish Transport Agency.

In Sweden the air traffic services are organized in accordance with Annex 11 »Air Traffic Services ».

In general, the Swedish rules of the air and ATS procedures conform with ICAO Standards, Recommended Practices and Procedures.

2 Geographical area of responsibility

Air traffic services are provided in Sweden FIR.

Note. Within RØNNE TMA and CTR air traffic services are provided by Denmark below 4500 ft AMSL.

3 Types of services

Surveillance service is an integral part of the ATS system.

At some non-controlled aerodromes *Aerodrome Flight Information Service* (AFIS) is provided. The service is provided by an AFIS unit, the purpose of which is to supply significant information to aircraft on known air traffic, meteorological conditions and aerodrome conditions. AFIS units are identified by the name of the aerodrome concerned, followed by the word »INFORMATION ».

Note. At some aerodromes, differentiated air traffic services are provided, i.e. during certain hours aerodrome control service (TWR), and during other hours aerodrome flight information service (AFIS).

Air traffic advisory service is not provided within Sweden FIR except when promulgated through AIP SUP.

4 Co-ordination between ATS and operators

Co-ordination between ATS units and operators is provided in conformance with ICAO Annex 11 para 2.16.

5 Minimum flight altitude

a) Information on current QNH values and temperatures will be provided by ATS units on request and for some aerodromes also in the meteorological broadcasts according to GEN 3.5. In GAMET (area forecast in abbreviated plain language for low-level flights) the lowest QNH for the specific area and time period is listed.

- b) Inom "L3" CTA är lägsta IFR-marschhöjd 4000 ft AMSL. Lägsta användbara flygnivå fastställs av vederbörande ATS-enhet. b) Within "L3" CTA the minimum IFR cruising level is 4000 ft AMSL. The lowest usable flight level is determined by the appropriate ATS unit.
- c) Ovanstående fritar inte befälhavaren från skyldigheten att försäkra sig om att föreskriven vertikal hinderfrihet föreligger i varje skede av flygningen, om inte luftfartyget radarleds. Jfr ICAO Doc 4444 PANS-ATM 4.10.3 note 3. c) The above does not relieve the pilot-in-command of his responsibility to ensure that adequate terrain clearance will exist at all times, except when an IFR flight is vectored by radar (cf. ICAO Doc 4444 PANS-ATM 4.10.3 note 3).
- d) Beträffande "lägsta vektoreringshöjd", se ENR 1.6 mom 2.4. d) As regards "minimum vectoring altitude", see ENR 1.6 para 2.4.

6 Flygtrafikledningens adresslista / ATS units address list

Unit name/service	Postal address	Telephone	Fax	AFS
ARVIDSJOUR TWR/AFIS	Arvidsjaur Flygplats AB Flygtrafikledningen Flygplatsen SE-933 91 Arvidsjaur	+46 (0)960 173 85	+46 (0)960 133 38	ESNXZTZX
BORLÄNGE TWR	ACR Dala Airport AB Överstevägen 50 SE-784 63 Borlänge	+46 (0)243 645 20		ESSDZTZX
ESKILSTUNA AFIS	Eskilstuna flygplats c/o Nordflyg SE-635 06 Eskilstuna	+46 (0)16 940 20	+46 (0)16 940 90	ESSUZTZX
GÄLLIVARE AFIS	Trafikledningen Box 92 SE-972 21 Gällivare	+46 (0)970 780 20	+46 (0)970 780 21	ESNGZTZX
GÖTEBORG APP	LFV Flygtrafikledningen SE-438 80 Landvetter	+46 (0)31 94 11 44 +46 (0)31 94 10 00	+46 (0)31 94 12 44	ESGGYHYX
GÖTEBORG/Landvetter TWR	LFV Flygtrafikledningen SE-438 80 Landvetter	+46 (0)31 94 11 39 +46 (0)31 94 10 00	+46 (0)31 94 65 94	ESGGZTZX
GÖTEBORG/Säve TWR	ACR Flygtrafikledningen Holmvägen 100 SE-417 46 Göteborg	+46 (0)31 55 23 10		
HAGFORS AFIS	ATS Hagfors Flygplatsvägen 13 SE-683 93 Råda	+46 (0)563 603 68 +46 (0)563 601 75		ESOHZTZX
HALMSTAD TWR	FMTS/Flygtrafikledningen Box 516 SE-301 80 Halmstad	+46 (0)35 18 26 50	+46 (0)35 15 75 07	ESMTZTZX
HEMAVAN AFIS	Hemavan Tärnaby Airport Älvstigen 20 SE-920 66 Hemavan	+46 (0)954 305 30		ESUTZTZX
JÖNKÖPING TWR	ACR Flygtrafikledningen Jönköpings flygplats SE-555 93 Jönköping	+46 (0)36 31 12 20	+46 (0)36 731 51	ESGJZTZX
KALMAR TWR	ACR Flygtrafikledningen Kalmar flygplats SE-392 41 Kalmar	+46 (0)10 357 48 33		ESMQZTZX
KARLSBORG TWR	LFV ATS Karlsborg Flygplatsen PL19 SE-546 83 Karlsborg	+46 (0)505 45 10 50 +46 (0)505 45 10 17	+46 (0)505 45 10 58	ESIAZTZX

Unit name/service	Postal address	Telephone	Fax	AFS
KARLSTAD TWR	ACR Flygtrafikledningen SE-655 91 Karlstad	+46 (0)54 55 60 76		ESOKZTZX
KIRUNA TWR	LFV Box 918 SE-195 05 Arlandastad E-mail: atskiruna@lfv.se	+46 (0)8 511 886 14		ESNQZTZX
KRAMFORS AFIS	Höga kusten Airport Gistgårdsön 2150 SE-870 52 Nyland	+46 (0)612 223 55	+46 (0)612 71 81 22	ESNKZTZX
KRISTIANSTAD TWR	ACR Kristianstad Airport AB Flygtrafikledningen Kristianstad flygplats SE-297 92 Everöd	+46 (0)44 23 88 58	+46 (0)44 23 88 78	ESMKZTZX
LINKÖPING/Malmen TWR	LFV Flygtrafikledningen SE-581 98 Linköping	+46 (0)13 28 35 90 +46 (0)13 28 30 00	+46 (0)13 28 36 99	ESCFZTZX
LINKÖPING/Saab TWR	RTC Sundsvall/SDATS Midlandavägen 14 SE-861 41 Sörberge E-mail: ats.saab@saabgroup.com	+46 (0)60 19 75 13		ESSLZTZX
LJUNGBYHED TWR	ACR Flygtrafikledningen Drottningvägen 3 SE-264 51 Ljungbyhed E-mail: ats.ljungbyhed@acr-sweden.se	+46 (0)435 44 03 57 +46 (0)435 44 55 13		ESTLZTZX
LULEÅ/Kallax TWR	LFV ATS F21 SE-971 73 Luleå	+46 (0)920 23 63 29 +46 (0)920 23 49 32	+46 (0)920 23 49 39	ESPAZTZX
LYCKSELE AFIS	Lycksele Airport AB SE-921 81 Lycksele E-mail: ats@lyckseleairport.se	+46 (0)950 275 51 +46 (0)950 275 60		ESNLZTZX
MALMÖ ACC Marked (+) to be used only for relevant ATS messages, i.e. FPL, DEP and closing of flight plan.	LFV Flygtrafikledningen Box 54 SE-230 32 Malmö-Sturup	+46 (0)40 613 24 00 +46 (0)40 28 34 00 +46 (0)40 613 24 05 (+) +46 (0)40 28 34 05 (+)	+46 (0)40 50 02 54	ESMMZRZX ESMMZQZX (+) ESMMZFZX (+)
MALMÖ/Sturup TWR	LFV Box 918 SE-195 05 Arlandastad E-mail: ats.esms@lfv.se	+46 (0)40 613 15 50 +46 (0)40 613 10 00		ESMSZTZX
MORA/Siljan AFIS	Mora Siljan flygplats Mora flygplats SE-792 91 Mora	+46 (0)250 301 98	+46 (0)250 59 35 25	ESKMZTZX
NORRKÖPING/Kungsängen TWR	ACR Flygtrafikledningen Norrköping Flygplats SE-603 61 Norrköping	+46 (0)11 14 02 00	+46 (0)11 14 54 10	ESSPZTZX
PAJALA AFIS	Pajala Airport Flygtrafikledningen SE-984 91 Pajala	+46 (0)978 129 61		ESUPZTZX
RONNEBY TWR	Blekinge flygflottilj, F17 Box 502 SE-372 25 Ronneby	+46 (0)457 47 15 55	+46 (0)457 47 15 56	ESDFZTZX
SKELLEFTEÅ TWR	ACR Flygtrafikledningen Skellefteå Flygplats SE-931 92 Skellefteå	+46 (0)910 576 90	+46 (0)910 841 00	ESNSZTZX

Unit name/service	Postal address	Telephone	Fax	AFS
STOCKHOLM ACC Marked (+) to be used only for relevant ATS messages, i.e. FPL, DEP and closing of flight plan.	LFV Flygtrafikledningen SE-190 45 Stockholm-Arlanda	+46 (0)8 585 547 00 +46 (0)8 585 547 01 +46 (0)8 585 545 05 (+) +46 (0)8 594 926 96 (+)	+46 (0)8 593 619 00	ESOSZRZX ESOSZQZX (+) ESOSZFZX (+)
STOCKHOLM/Arlanda TWR	LFV Flygtrafikledningen SE-190 45 Stockholm-Arlanda	+46 (0)8 594 922 50 +46 (0)8 797 60 00	+46 (0)8 593 627 23	ESSAZTZX
STOCKHOLM/Bromma TWR	LFV Flygtrafikledningen Bromma Stockholm Airport SE-168 67 Bromma	+46 (0)8 797 68 61 +46 (0)8 28 87 22		ESSBZTZX
STOCKHOLM/Flight Planning Centre AIS/ARO/NOF	LFV FPC/NOF Box 115 SE-190 46 Stockholm-Arlanda	+46 (0)8 797 63 40 +46 (0)8 797 63 38	+46 (0)8 593 601 79	ESSAZPZX ESSAYNYX
STOCKHOLM/Skavsta TWR	ACR Flygtrafikledningen Stockholm Skavsta flygplats AB Box 44 SE-611 22 Nyköping	+46 (0)155 28 04 20 +46 (0)155 28 04 23	+46 (0)155 28 04 86	ESKNZTZX
STOCKHOLM/Västerås TWR	Västerås flygplats AB Flygtrafikledningen Västerås flygplats SE-721 31 Västerås	+46 (0)21 80 00 20	+46 (0)21 80 13 20	ESOWZTZX
SUNDSVALL-TIMRÅ TWR	RTC Sundsvall/SDATS Midlandavägen 14 SE-861 41 Sörberge E-mail: ats.sundsvall@saabgroup.com	+46 (0)60 19 75 07		ESNNZTZX
SVEG AFIS	Härjedalens kommun Härjedalen Sveg Airport SE-842 80 Sveg	+46 (0)680 71 13 50	+46 (0)680 131 30	ESNDZTZX
SÅTENÅS TWR	Skaraborgs flygflottilj, F7 SE-530 32 Sätenäs	+46 (0)510 804 90 +46 (0)510 47 70 00	+46 (0)510 47 73 39	ESIBZTZX
SÅLEN TWR	RTC Sundsvall/SDATS Midlandavägen 14 SE-861 41 Sörberge E-mail: ats.salen@saabgroup.com	+46(0)60 19 75 04		ESKSZTZX
TORSBY AFIS	Torsby Flygplats Vasserudsvägen 3 SE-685 34 Torsby	+46 (0)560 717 24	+46 (0)560 143 99	ESSTZTZX
TROLLHÄTTAN-VÄNERSBORG TWR	ACR Flygtrafikledningen Trollhättan-Vänersborg flygplats SE-461 93 Trollhättan	+46 (0)520 42 93 61	+46 (0)520 173 57	ESGTZTZX
UMEÅ TWR	LFV Box 918 SE-195 05 Arlandastad E-mail: ats.umea@lfv.se	+46 (0)8 511 886 20		ESNUZTZX
UPPSALA TWR	LFV Flygtrafikledningen LSS Box 645 SE-751 27 Uppsala E-mail: ats.uppsala@lfv.se	+46 (0)18 19 60 72 +46 (0)18 19 60 73	+46 (0)18 19 60 79	ESCMZTZX
VIDSEL TWR	LFV Flygtrafikledningen RFN SE-942 23 Vidsele	+46 (0)929 360 25 +46 (0)929 370 00	+46 (0)929 374 73	ESPEZTZX

3.4 Kommunikationstjänster

1 Ansvarig myndighet

Ansvarig myndighet för flygtelejtjänsten i Sverige är Transportstyrelsen (se GEN 1.1 betr adresser).

Förfrågningar, förslag eller klagomål beträffande denna tjänst bör ställas till LFV.

1.1 Tillämpliga ICAO-dokument

Annex 5	Units of Measurement to be used in Air-Ground Communications.
Annex 10	Volume I Aeronautical Telecommunications, Equipment and Systems.
Annex 10	Volume II Aeronautical Telecommunications Communication Procedures.
Doc 8400	ICAO Abbreviations and Codes.
Doc 8585	Designators for Aircraft Operating Agencies, Aeronautical Authorities and Services
Doc 7910	Location indicators.
Doc 7030	Regional Supplementary Procedures (Regional com. proc. for EUR-region).
Doc 8071	Manual of Testing Radio Navigation Aids.

1.2 Avvikelser från ICAO bestämmelser

Se GEN 1.7.

2 Ansvarsområde

Flygtelejtjänst utförs inom Sweden FIR.

3 Slag av tjänster

3.1 Radionavigationstjänst

Följande slag av radionavigationshjälpmedel finns tillgängliga:

VOR, DME, NDB, VDF, SSR, RSR, TAR, PAR och ILS

3.2 Prov av VOR-stationer

Vid utprovning av lämpliga placeringar, flygprov, tekniska försök och justeringar m m av VOR-stationer användes igenkänningssignalen TST. En VOR med denna signal är ej användbar för operativt bruk. Uppgifter om sådana prov m.m. av en VOR-station publiceras vanligtvis inte.

3.3 Rörlig trafik

Talregistrering finns vid samtliga flygplatser med linjefart för alla radiotelefonkanaler på VHF avsedda för flygtrafik-ledningsändamål.

För att erhålla VHF-täckning inom och delvis utanför kontrollerat luftrum finns fjärrmanövrerade VHF-stationer.

3.4 Allmänna utsändningar

Följande utsändningar är tillgängliga för luffartyg under flygning:

3.4 Communication services

1 Responsible authority

The authority for the communication services in Sweden is the Swedish Transport Agency (see GEN 1.1 for addresses).

Enquiries, suggestions or complaints regarding any such service should be referred to the LFV Group.

1.1 Applicable ICAO documents

Annex 5	Units of Measurement to be used in Air-Ground Communications.
Annex 10	Volume I Aeronautical Telecommunications, Equipment and Systems.
Annex 10	Volume II Aeronautical Telecommunications Communication Procedures.
Doc 8400	ICAO Abbreviations and Codes.
Doc 8585	Designators for Aircraft Operating Agencies, Aeronautical Authorities and Services
Doc 7910	Location indicators.
Doc 7030	Regional Supplementary Procedures (Regional com. proc. for EUR-region).
Doc 8071	Manual of Testing Radio Navigation Aids.

1.2 Differencies from ICAO regulations

See GEN 1.7.

2 Area of responsibility

Communication services are provided within Sweden FIR.

3 Types of services

3.1 Radio navigation services

The following types of radio aids to navigation are available:

VOR, DME, NDB, VDF, SSR, RSR, TAR, PAR and ILS

3.2 Test of VOR stations

For siting and flight tests, technical trials and adjustments etc of VOR stations the identification TST is used. A VOR with this signal is not available for operational use. Information regarding such tests of a VOR station will usually not be published.

3.3 Mobile service

Voice records are provided at all aerodromes with scheduled air traffic for all radio telephony channels on VHF for air traffic control purpose.

In order to obtain VHF coverage within and partly outside controlled airspace remotecontrolled VHF stations are used.

3.4 Broadcasting service

The following broadcasts are available for aircraft in flight:

a) VHF RTF meteorologiska utsändningar (VOLMET-utsändningar på radiotelefoni);

a) VHF RTF Meteorological Broadcasts (VOLMET Radiotelephony Broadcasts);

b) Automatisk terminalinformationstjänst (ATIS) (utsändning av rutinmässiga luftfartsinformationer).

b) Automatic Terminal Information Services (ATIS) (Routine Flight Information Broadcasts).

3.5 Språk som används

3.5 Languages used

Svenska och engelska.

Swedish and English.

3.6 Controller-Pilot Data Link Communication (CPDLC)

3.6 Controller-Pilot Data Link Communication (CPDLC)

3.6.1 Allmänt

3.6.1 General

CPDLC-applikationen tillhandahåller funktionalitet för kommunikation mellan flygledare och pilot genom datalänk utifrån en fördefinierad meddelandeuppsättning.

The CPDLC application provides means of communication between the air traffic controller and the pilot, using a predefined data link message set.

All CPDLC-kommunikation ska alltid ske med största möjliga trafikdisciplin. Om osäkerhet uppstår kring ett datalänk-meddelande skall alltid radiotelefoni användas.

In all CPDLC communications, the highest standard of discipline shall be observed at all times. If uncertainty arises regarding a data link message, radiotelephony shall always be used.

CPDLC skall endast användas för icke tidskritisk kommunikation, d.v.s. kommunikation utan behov av omedelbar åtgärd från flygledare. Emellertid skall på samma sätt som vid talkommunikation CPDLC-meddelanden besvaras med minsta möjliga fördröjning. Om ett luftfartygs nedlänkade begäran avbryts p.g.a. att en tidsgräns har överskridits, skall piloten upprepa begäran med radiotelefoni.

CPDLC shall only be used for non-time-critical requests, i.e. requests that do not require the immediate reaction of the controller. Nevertheless, as in radiotelephony, the CPDLC messages shall be answered with the least possible delay. If the downlink request is cut off because the time limit was exceeded, the pilot should repeat the request via radiotelephony.

I Sweden FIR över FL285 är det obligatoriskt för luftfartyg som framförs enligt IFR och är utrustade med CPDLC (ATN VDL Mode 2) att vara inloggade. Under FL285 är det inte obligatoriskt att använda CPDLC men rekommenderas.

Within Sweden FIR above FL285, log-on is mandatory for IFR flights with CPDLC equipped aircraft (ATN VDL Mode 2). Below FL285 the use of CPDLC is not mandatory but recommended.

Användning av CPDLC avgörs av berörda piloter och flygledare.

The use of CPDLC is conducted at the discretion of the ATCOs and at the initiative of the pilots concerned.

Muntlig tillbakaläsning av CPDLC-meddelande krävs inte.

Voice read-back is not required for any CPDLC instruction.

3.6.2 Färdplan

3.6.2 Flight plan

För att kunna använda CPDLC-tjänsten krävs att piloten registrerar följande i respektive fält i färdplanen:

In order to use the CPDLC services, pilots shall file the following in the respective items of their flight plan:

- Fält 10a - J1 för CPDLC ATN VDL Mode 2-utrustat luftfartyg;
- Fält 18 – indikatorn CODE/ följt av luftfartygets 24-bitars-adress uttryckt i alfanumeriskt format med sex (6) hexadecimala karaktärer.

- Item 10a - J1 for the CPDLC ATN VDL Mode 2 capable aircraft;
- Item 18 - the indicator CODE/ followed by the aircraft 24-bit address expressed in the form of alphanumerical code of six hexadecimal characters.

För flygningar som är temporärt undantagna (ex. CPDLC ej tillgängligt enligt MEL) skall utrustningskoden J1 tas bort och Z + DAT/CPDLX läggs till i färdplanen.

Flights qualified for temporary exemptions (e.g. CPDLC unserviceable under MEL) shall remove the equipment code J1 and include Z + DAT/CPDLCX in the flight plan.

3.6.3 CPDLC användning

3.6.3 CPDLC use

I Sweden FIR har talkommunikation och/eller radiotelefoni-instruktioner alltid högre prioritet än CPDLC-instruktioner. En klarering begärd med CPDLC bör utfärdas med CPDLC och en klarering begärd med radiotelefoni bör utfärdas med radiotelefoni.

In Sweden FIR voice communication and/or radiotelephony instructions have priority over CPDLC instructions at all times. However, a clearance requested via CPDLC should subsequently be issued via CPDLC, a clearance requested via radiotelephony should also be issued via radiotelephony.

Klareringar skall inte genomföras förrän WILCO-meddelande har skickats.

Clearances shall not be executed until the WILCO message has been sent.

3.6.4 DLIC-inloggning (log-on)

3.6.4 DLIC log-on

Datalänkadress för Stockholm ACC är **ESOS**.
Datalänkadress för Malmö ACC är **ESMM**.

The data link address for Stockholm ACC is **ESOS**.
The data link address for Malmö ACC is **ESMM**.

Entering	ATN Address
AOR OS01	ESOS
AOR OS02	ESOS
AOR OS03	ESOS
AOR OS04	ESOS
AOR MM01	ESMM
AOR MM02	ESMM
AOR MM03	ESMM
AOR MM04	ESMM

Ref karta: ES ENR 6.4-1 en

CPDLC skall etableras i god tid för att säkerställa att luftfartyget kommunicerar med rätt ATC-enhet. Inloggning (log-on) skall initieras av pilot. Piloter skall logga på genom att använda den ICAO-anropssignal som registrerats i färdplanen.

Inloggning (log-on) skall initieras 10 till 15 minuter innan ankomst till Sweden FIRs luftrum.

När luftfartyg avgår från en flygplats i Sweden FIR kan inloggning göras redan på marken.

Oavsett antalet sektoröverlämningar krävs normalt ingen ny inloggning.

3.6.5 CPDLC-tjänster

Flygledaren eller piloten skall skapa CPDLC-meddelanden genom att använda den fördefinierade meddelandepopsättningen eller fritextmeddelanden. I nedanstående tabeller listas Sweden FIRs tillgängliga CPDLC-standardmeddelanden tillsammans med de tillämpliga operativa svaren.

3.6.6 ATC kommunikationshantering (ACM)

När luftfartyg överlämnas till en angränsande sektor eller ATC-enhet med hjälp av CPDLC-datalänk skall piloten bekräfta instruktionen genom att skicka WILCO och sedan kontakta nästa sektor eller ATC-enhet med radiotelefonti på den angivna kanalen.

ACM Messages

ATC message element	Pilot response
CONTACT [unit name] [frequency]	WILCO, or UNABLE [+ DUE TO WEATHER], or UNABLE [+ DUE TO AIRCRAFT PERFORMANCE], or STAND BY

3.6.7 ATC-klareringar och instruktioner (ACL)

Piloter kan erhålla ATC-instruktioner via upplänkade meddelanden (UM). Piloter kan begära flygnivåändringar (stig eller sjunk) eller direktklarering till en punkt i färdvägen via nedlänkade meddelanden (DM).

Ref map: ES ENR 6.4-1 en

CPDLC shall be established in due time to ensure that the aircraft is communicating with the appropriate ATC unit. Log-on shall be initiated by the pilot. Pilots shall log-on using their ICAO call sign as filed in the flight plan.

Log-on should be initiated 10 to 15 minutes prior to entry into Sweden FIR airspace.

When aircraft depart from an aerodrome in Sweden FIR, the log-on can be conducted while still on ground.

Irrespective of the number of sectors crossed during the flight, only one log-on is normally required.

3.6.5 CPDLC services

The controller or pilot shall construct CPDLC messages using the pre-defined message set or free text messages. The following tables list the standard CPDLC messages available for exchange in Sweden FIR, with appropriate operational responses.

3.6.6 ATC Communications Management (ACM)

When an aircraft is transferred by data link to an adjacent sector/ATC unit, the pilot shall acknowledge the instruction by WILCO, and shall then contact the next sector/ATC unit by radiotelephony on the instructed channel.

3.6.7 ATC clearances and instructions (ACL)

Pilots may receive ATC instructions via data uplink messages. Pilots may request changes to flight levels (climb or descent) or clearance direct to a point on their route via data downlink messages.

ACL Messages

ATC message element	Pilot Response
MAINTAIN [level]	WILCO, or UNABLE [+ DUE TO WEATHER], or UNABLE [+ DUE TO AIRCRAFT PERFORMANCE], or STAND BY
CLIMB TO [level]	
DESCEND TO [level]	
PROCEED DIRECT TO [position]	
CLEARED TO [position] VIA [routeClearance]	
FLY HEADING [degrees]	
SQUAWK [code]	
SQUAWK IDENT	

Pilot's Message Element		ATC Response
REQUEST [level]	[+ DUE TO WEATHER], or [+ DUE TO AIRCRAFT PERFORMANCE]	[corresponding approving instruction], or
REQUEST CLIMB TO [level]		UNABLE, or
REQUEST DESCENT TO [level]		STAND BY or
REQUEST DIRECT TO [position]		REQUEST AGAIN WITH NEXT UNIT

3.6.8 ATC mikrofonkontroll (AMC)

Instruktion avseende "check stuck microphone" kan sändas av ATC vid tillfällen då ett luftfartyg oavsiktligt blockerar en radiokanal.

Om "check stuck microphone"-instruktion anger den RTF-kanal som för tillfället är i användning, skall pilot kontrollera att det inte är den egna utrustningen som orsakar blockeringen. Om "check stuck microphone"-instruktion anger en RTF-kanal som inte används krävs inga ytterligare åtgärder av piloten.

AMC Messages

ATC Message Element	Pilot's Response
CHECK STUCK MICROPHONE [frequency]	NIL

3.6.9 Meddelandebegränsningar och felhantering

Om marksystemet erhåller ett meddelande som inte stöds eller som bryter mot det gällande regelverket för CPDLC-kommunikation så erhåller piloten ett automatiskt svar med indikation på vad som är fel och om tillämpligt även nödvändiga åtgärder.

3.6.10 Avbrytande av CPDLC-dialog med radiotelefo

När radiotelefo används för korrigerig av ett obesvarat CPDLC-meddelande, skall flygledaren använda frasen

BORTSE FRÅN CPDLC (meddelandetyp) MEDDELANDE, BRYT, (korrekt klarering, instruktion, information eller begäran)

och ge korrekt klarering i samma sändning. Piloten skall besvara CPDLC-meddelandet med ett "UNABLE"-meddelande och besvara den muntliga klareringen med radiotelefo.

3.6.11 Införande/återkallande av CPDLC-tystnad

För att begränsa belastningen i en sektor kan flygledaren begära att alla eller ett specifikt luftfartyg inte använder CPDLC under en begränsad tidsperiod. Vid införande eller återkallande av CPDLC-tystnad skall följande fraser användas:

3.6.8 ATC Microphone Check (AMC)

A "check stuck microphone" instruction may be sent by ATC in circumstances where an aircraft is inadvertently blocking a voice communication channel.

If the "check stuck microphone" instruction relates to the RTF channel currently being used, the pilot shall check that their radio equipment is not causing the blockage. If the "check stuck microphone" instruction does not relate to the RTF channel being used, no further action by the pilot is required.

3.6.9 Message restrictions and error management

If a ground system receives a message that is not supported, or constitutes an error to the technical rules for CPDLC communication, flight crew will receive an automatic reply indicating the nature of the error and, if applicable, required actions.

3.6.10 Voice interruption of CPDLC dialogue

When using radiotelephony to correct an unanswered CPDLC message, the controller shall initiate voice communication using the phrase

DISREGARD CPDLC (message type) MESSAGE, BREAK, (correct clearance, instruction, information or request)

and deliver the correct clearance within the same transmission. The pilot shall reply to the CPDLC message with an "UNABLE" message and respond with voice to the clearance received by voice.

3.6.11 CPDLC imposed/revoked silence

In order to contain the sector workload, controllers may require all stations or a specific flight to avoid sending CPDLC requests for a limited period of time. For imposing or revoking CPDLC silence the following phrases shall be used:

ALLA STATIONER (eller [call sign] om tillämpligt), SLUTA SÄNDA CPDLC-BEGÄRAN [TILLS VIDARE] [(orsak)]

ALLA STATIONER (eller [call sign] om tillämpligt), ÅTERTA NORMAL CPDLC-DRIFT

3.6.12 CPDLC driftavbrott

Vid larm om driftavbrott för CPDLC skall flygledaren informera sektorns samtliga kontrollerade luftfartyg genom att använda följande fras:

ALLA STATIONER CPDLC UR FUNKTION, [identification of the calling station]

Vissa driftavbrott kan resultera i avbrott av befintliga datalänkförbindelser för sektorns kontrollerade flygningar. I dessa fall är det inte möjligt för ATC att återupprätta CPDLC-dialog om pilot inte åter loggar på för att upprätta datalänkförbindelsen igen. Flygledaren kan informera sina kontrollerade luftfartyg om återupprättad CPDLC-tjänst med följande fras:

ALLA STATIONER ÅTERTA NORMAL CPDLC-DRIFT

Vid CPDLC driftavbrott skall obekräftade CPDLC-klareringar repeteras med radiotelefonti och/eller bekräftas. Om antingen pilot eller ATC bedömer att CPDLC inte skall användas under rådande omständigheter skall CPDLC-kommunikation upphöra eller avslutas och motparten informeras med radiotelefonti.

Vid planerad avstängning eller oförutsett driftavbrott i CPDLC-systemet instruerar ATC alla CPDLC-utrustade luftfartyg att återgå till radiotelefonti. Vid driftavbrott på den luftburna CPDLC-utrustningen skall piloten återgå till talkommunikation och informera ATC.

3.6.13 Log-off

Utloggning sker automatiskt vid utträde ur Sweden FIR, ingen åtgärd krävs från piloten. ACM-funktionen används mellan Sweden FIR och angränsande CPDLC-utrustade ATC-enheter.

4 Krav och villkor

NIL

ALL STATIONS (or [call sign] as applicable), STOP SENDING CPDLC REQUESTS [UNTIL ADVISED] [(reason)]

ALL STATIONS (or [call sign] as applicable), RESUME NORMAL CPDLC OPERATIONS

3.6.12 CPDLC failure

When alerted that CPDLC has failed, the controller should inform all stations under sector jurisdiction, using the following phrase:

ALL STATIONS, CPDLC FAILURE, [identification of the calling station]

Some failures may result in termination of the existing data link connections with aircraft that are under control of a sector. In this case, it will not be possible for ATC to reinitiate dialogues via CPDLC unless the pilot re-initiates the data link log-on process in order to re-establish data link connection. Controller may inform aircraft under his jurisdiction when the CPDLC service is restored, using the following phrase:

ALL STATIONS, RESUME NORMAL CPDLC OPERATIONS

In case of a CPDLC failure, CPDLC clearances that have not yet been confirmed shall be repeated over radiotelephony and/or confirmed. If either the pilot or ATC consider that CPDLC should not be used in the prevailing circumstances, CPDLC shall be suspended or terminated and the other party shall be informed by radiotelephony.

In case of a scheduled shutdown or an unexpected failure of the CPDLC system, ATC will instruct all aircraft equipped with data link to return to voice communication. In case of an on board failure of CPDLC, the pilot shall return to voice communication and inform ATC.

3.6.13 Log-off

Log-off is automatic on leaving Sweden FIR airspace, no pilot action is required. Between Sweden FIR and adjacent CPDLC equipped ATC units the ACM service will be used.

4 Requirements and conditions

NIL

ENR 1 ALLMÄNNA FÖRESKRIFTER / GENERAL RULES AND PROCEDURES

1.1 Allmänna föreskrifter

1 Tider då kontrollerat luftrum är upprättat

1.1 Följande luftrum är upprättade H24:

- a) SUECIA CTA;
- b) L3 CTA;
- c) GÖTEBORG TMA
MALMÖ TMA
STOCKHOLM TMA
ÖSTGÖTA TMA

1.2 Följande luftrum är upprättade under öppethållningstid för TWR vid den flygplats som luftrummet betjänar, samt dessutom när berörd TWR upprätthåller omedelbar beredskap (se anm), eller när ansvaret för flygkontrolltjänsten är delegerat till en annan flygkontrollenhet enligt uppgift i beskrivningen av luftrummet i ENR 2.1:

- a) samtliga terminalområden (TMA), utom de TMA eller delar därav som anges ovan.
- b) samtliga kontrollzoner (CTR).

Anm. Flygkontrollenheternas ordinarie öppethållningstider och uppgift om beredskap (O/R) anges i AD 2 eller AIP SUP/NOTAM. Med »omedelbar beredskap» menas O/R utan angiven PN (prior notice/förhandsanmälan).

1.3 ATC-enheter kan vara i tjänst även på tider utanför ordinarie öppethållningstid. Misslyckat försök att upprätta radioförbindelse med en ATC-enhet får inte tolkas som att enheten är stängd och dess luftrum inte upprättat. ACC i berört FIR lämnar, på begäran, uppgift om flygkontrollenheten är i tjänst eller inte.

1.4 Ett flygradioutrustat luftfartyg som framförs på eller nära en okontrollerad flygplats ska:

- a) När en AFIS-enhet är i tjänst; följa bestämmelserna om radioförbindelse i "kommisionens genomförandeförordning (EU) nr 923/2012 om gemensamma luftfarts- och driftsbestämmelser för tjänster och förfaranden inom flygtrafiken" och "Transportstyrelsens föreskrifter och allmänna råd (TSFS 2020:59) om trafikregler för luftfart".
- b) När en ATS-enhet finns vid flygplatsen men vid tillfället är stängd, passa ATS-enhetens publicerade radiofrekvens och genom blandsändning meddela uppgifter enligt c). Om det framgår av radiotrafik att ATS-enheten öppnar, ska luftfartyget snarast anmäla sin position och, om flygplatskontrolltjänst utövas, begära klarering för fortsatt flygning.
- c) När ATS-enhet saknas vid flygplatsen; passa flygplatsens publicerade radiofrekvens, om sådan finns, annars frekvens 123.450. Luftfartyget ska vid lämpliga tillfällen i luften och på marken blandsända sådana korta upplysningar som kan tjäna till ledning för andra luftfartyg för att undvika kollision, exempelvis om position, flyghöjd och avsikt.

1.1 General rules

1 Hours when controlled airspace is established

1.1 The following airspaces are established H24:

- a) SUECIA CTA;
- b) L3 CTA;
- c) GÖTEBORG TMA
MALMÖ TMA
STOCKHOLM TMA
ÖSTGÖTA TMA

1.2 The following airspaces are established during hours of operation for the TWR at the airport being served by the airspace, and also when the TWR concerned is immediately available on request (see Note), or whenever the airspace is delegated to another air traffic control unit as specified in the airspace description in ENR 2.1:

- a) all terminal control areas (TMA), except those TMA or portions thereof specified above
- b) all control zones (CTR).

Note. Information on regular hours of operations of air traffic control units and their availability on request is published in AD 2 or AIP SUP/NOTAM. The term »immediately available on request» implies available without a specified PN (prior notice) period.

1.3 ATC units may be in operation also outside their regular hours of operation. Unsuccessful attempts to establish radio communication with an ATC unit must not be understood to imply that this unit is not in operation. On request, the ACC in the FIR concerned will give information whether or not the unit is in operation.

1.4 An aircraft equipped with radio at an or in the vicinity of an uncontrolled aerodrome shall:

- a) When an AFIS-unit is open; apply regulation concerning radio communication in "Commission Implementing Regulation (EU) No 923/2012 laying down the common rules of the air and operational provisions regarding services" and in The Swedish Transport Agency's regulations called "Transportstyrelsens föreskrifter och allmänna råd (TSFS 2020:59) om trafikregler för luftfart".
- b) When an ATS-unit is temporary closed, monitor the published ATS-frequency and transmitting blind information noted in c) below. If it appears via the radio that the ATS-unit opens, the aircraft shall as soon as possible report its position and if ATC is provided, request a clearance.
- c) At an Aerodrome without ATS-unit; monitor the published frequency, otherwise monitor 123.450. The aircraft shall at appropriate positions in the air or on the ground transmit blind to inform other aircrafts in order to avoid collision, e.g. position, altitude and intention.

1.5 Tillfälliga terminalområden och kontrollzoner kan inrättas i samband med militära flygövningar. Tider då dessa är upprättade (aktiva) anges i AIP SUP/NOTAM.

2 Militär flygövningstid

2.1 Under militär flygövningstid kanaliseras civil flygtrafik i huvudsak till publicerade ATS-flygvägar, där så är möjligt. När trafikförhållandena (civil och militär flygtrafik) och övrig verksamhet så tillåter, kan dock klarering lämnas längs kortare flygväg än den som färdplanerats och/eller tilldelats luffartyget i tidigare lämnad klarering.

2.2 Militär flygövningstid är förlagd till helgfria vardagar. MÅN–TOR 0730–1500 (0630–1400), FRE 0730–1100 (0630–1000) och vardag före helgdag (MÅN–FRE) 0730–1100 (0630–1000). Under perioden 15 SEP–1 APR även TOR 1500–2100 (1400–2000). Tillfälliga ändringar kan förekomma. Detta meddelas i så fall genom AIP SUP/NOTAM.

3 SUECIA kontrollområde (CTA)

3.1 SUECIA CTA omfattar luftrummet mellan FL095 och FL660 inom Sweden FIR. För nordvästra delen av Sweden FIR är undersidan för SUECIA CTA FL125.

Flygtrafikledningstjänsten inom SUECIA CTA utövas av Malmö ACC och Stockholm ACC.

3.2 Inom SUECIA CTA finns ett system av publicerade ATS-flygvägar, baserade på områdesnavigering (RNAV). Under militär flygövningstid kan på initiativ av ATC viss temporär flygvägsförändring bli aktuell.

3.3 Föreskrifter för flygning inom SUECIA CTA, se ENR 1.3.

3.4 Utländska statsluffartyg kan, utan att överträda folkrättsliga regler, uppträda inom SUECIA CTA utanför svenskt territorium utan att inhämta klarering från eller upprätta radioförbindelse med vederbörande ATS-organ. När omständigheterna så medger, lämnar ATS trafikinformation till berörda flygningar om okända luffartyg.

3.5 Utländska statsluffartyg ska ta del av gällande undantag som framgår av dokumentet "EUROCONTROL Publication for harmonised Rules for OAT under IFR inside controlled Airspace of the ECAC Area (EUROAT)", Annex 4: Appendix SE – Country Chapter for SWEDEN, SE Amendments to the EUROAT, på Eurocontrols hemsida innan man angör och opererar inom SUECIA CTA och i svenskt territorium.

3.6 Dansk militär luffart opereras som OAT över danskt territorium över Bornholm och är inte under kontroll av Malmö ACC. Dansk militär säkerställer säker separation till civil luffart, normalt minst 5 NM eller 2000 ft och strävar efter att undvika ACAS RA.

4 Områdesnavigering (RNAV)

4.1 Navigering inom SUECIA CTA ska ske genom områdesnavigering RNAV 5. RNAV 5 får endast utföras av luffartyg som har godkänd RNAV-utrustning.

1.5 During military air exercises, temporary terminal control areas and control zones may be established during hours specified in AIP SUP/NOTAM.

2 Military air exercise hours

2.1 During military air exercise hours, civil air traffic will mainly be channelled via published ATS routes wherever practicable. However, traffic conditions (civil as well as military air traffic) and other activities permitting, ATC may clear aircraft to fly a shorter route than the one flight planned or previously assigned to the aircraft.

2.2 Military air exercise hours are as below. Swedish public holidays excluded. MON–THU 0730–1500 (0630–1400), FRI 0730–1100 (0630–1000) and day before public holiday (MON–FRI) 0730–1100 (0630–1000). In addition, during the period 15 SEP–1 APR also THU 1500–2100 (1400–2000). Temporary changes may occur. These will be announced by AIP SUP/NOTAM.

3 SUECIA control area (CTA)

3.1 SUECIA CTA includes the airspace between FL095 and FL660 within Sweden FIR. In the northwest part of Sweden FIR lower limit SUECIA CTA is FL125.

Air traffic service within SUECIA CTA is provided by Malmö ACC and Stockholm ACC.

3.2 Within SUECIA CTA there is a network of published ATS routes, based on Area Navigation (RNAV). During military air exercise hours on ATC initiative a certain temporary rerouting might be initiated.

3.3 Procedures for flight within SUECIA CTA are laid down in ENR 1.3.

3.4 Without infringing international law, foreign state aircraft may operate within those portions of SUECIA CTA, which are situated over the high seas, without obtaining an ATC clearance from or establishing radio communication with the appropriate ATS unit. When circumstances permit, ATS will provide traffic information to flights concerned regarding unknown aircraft.

3.5 Foreign state aircraft shall check document "EUROCONTROL Publication for harmonised Rules for OAT under IFR inside controlled Airspace of the ECAC Area (EUROAT)", Annex 4: Appendix SE – Country Chapter for SWEDEN, SE Amendments to the EUROAT, on Eurocontrol website before entering and operating within SUECIA CTA and inside Swedish territory.

3.6 Danish military aircraft operate as OAT over Danish territory over Bornholm and will not be under control of Malmö ACC. Danish military will ensure safe separation to civil aircraft, usually at least 5 NM or 2000 ft, and strive to avoid ACAS RA.

4 Area Navigation (RNAV)

4.1 Navigation within SUECIA CTA shall be performed by means of Area Navigation RNAV 5. RNAV 5 may only be performed with aircraft having approved RNAV equipment.

Anm. Operatörer, som har utrustning med »off-set» funktion, rekommenderas att tillämpa OFF-SET RIGHT 0.1 NM vid enrouteflygning längs ATS-flygvägar för att minska risken för mid-air kollision (ska dock EJ användas under flygfaserna inflygning/STAR eller utflygning/SID).

4.2 Kursnoggrannhet

Om föreskriven kursnoggrannhet inte kan upprätthållas, ska berörd flygtrafikledningenshet underrättas härom snarast möjligt.

4.3 RNAV-flygvägar

Samtliga ATS-flygvägar inom SUECIA CTA är baserade på RNAV.

5 Conditional Routes (CDR)

5.1 Det nuvarande permanenta ATS-rutenätet består av flygvägar vars utnyttjande inte kan regleras på daglig basis. Dessa flygvägar kan stängas bara under speciella förhållanden genom NOTAM, t.ex. under större militära övningar.

5.2 CDR kompletterar det permanenta ATS-rutenätet. Syftet med CDR är att medge att flygningar planeras på ATS-flygvägar eller delar därav, som inte alltid är tillgängliga. CDR är vanligtvis upprättade genom områden, som kan komma att tilldelas temporärt och som har den sammanfattande benämningen »AMC-reglerbara områden».

5.3 CDR indelas i tre olika kategorier, alltefter deras förutsedda tillgänglighet, deras färdplaneringsmöjlighet och den förväntade aktivitetsgraden i berörda AMC-reglerade område(n).

5.4 En CDR kan vara upprättad under en eller flera av de tre följande kategorierna:

5.5 CDR 1

CDR som är färdplaneringsbar under i AIP publicerade tider.

- CDR 1 är CDR som förväntas vara tillgängliga större delen av den tidsperiod som är publicerad i AIP.
- CDR 1 färdplaneras på samma sätt som permanenta ATS-flygvägar under de tider som publicerats i AIP.
- Varje begränsning av CDR 1 tillgänglighet ska om möjligt delges.
- Trafik som färdplanerat på en CDR 1, som kommer i konflikt med en eller flera aktiva områden för militär övningsverksamhet, kommer beroende på aktiviteten att få en alternativ klarering med en för svenskt FIR total flygvägsförlängning som normalt inte överstiger 10 NM, men kan i undantagsfall maximalt bli 20 NM.

5.6 CDR 2

CDR som inte är ständigt planeringsbar.

- CDR 2 utgör delar av på förhand bestämda flygvägsscenario, vilka svarar mot speciella brister som står i relation till kapacitetsproblem.

Note. It is recommended that operators, who have equipment with »off-set» function, use OFF-SET RIGHT 0.1 NM when flying en route on ATS-routes in order to reduce the risk of mid-air collision (NOT to be used during Approach/STAR or Departure/SID phases of flight).

4.2 Track keeping accuracy

In cases the required level of accuracy no longer can be maintained, the appropriate Air Traffic Service unit shall be informed without delay.

4.3 RNAV routes

All ATS routes within SUECIA CTA are based on RNAV.

5 Conditional Routes (CDR)

5.1 The current permanent ATS route network consists of all permanently designated routes which are not subject to daily management and which can only be closed under specific conditions known well in advance e.g. by NOTAM, for large scale military exercises.

5.2 CDRs are designed to complement the permanent ATS route network and to allow flights to be planned on ATS routes, or portions thereof, which are not always available. CDRs are generally established through areas of potential temporary allocation identified under the generic term »AMC-Manageable Areas».

5.3 CDRs are divided into three different categories according to their foreseen availability, their flight planning potential and the anticipated level of activity of the associated AMC Manageable Area(s).

5.4 A CDR can be established in one or more of the three following categories:

5.5 CDR 1

Permanently Plannable CDR during the times published in AIP.

- CDRs 1 are CDRs expected to be available for most of the time during the time period published in AIP.
- CDRs 1 will be flight planned in the same way as permanent ATS routes during the times published in AIP.
- Any foreseen unavailability of CDRs 1 will, when practicable, be properly notified.
- Traffic with a flight plan on a CDR 1, that conflicts with one or several Swedish active military training areas, will pending on activity be given alternative routing with a total route extension in Swedish FIR that normally will not exceed 10 NM but in rare cases a maximum of 20 NM.

5.6 CDR 2

Non-Permanently Plannable CDR.

- CDRs 2 are part of pre-defined routing scenarios that respond to specific capacity imbalances.

- flygningar får endast färdplaneras längs CDR 2 i enlighet med vad som publiceras dagligen.

5.7 CDR 3

Icke planeringsbar CDR.

- CDR 3 publiceras i AIP som CDR som endast får användas efter instruktion från ATC.
- flygningar omdirigeras till CDR 3 efter instruktion från ATC, med kort varsel, i form av rutförslag.

6 Flygning utanför kontrollerat luftrum

6.1 Flygning enligt VFR under mörker ska ske i enlighet med "kommissionens genomförandeförordning (EU) nr 923/2012 om gemensamma luftfarts- och driftbestämmelser för tjänster och förfaranden inom flygtrafiken".

6.2 Flygning enligt IFR i okontrollerat luftrum över den högsta av följande: 5000 ft AMSL eller 3000 ft AGL, eller före flygning inom eller in i en trafikinformationszon eller ett trafikinformationsområde, gäller följande:

- a) Färdplan skall inlämnas till ATS.
- b) Dubbelriktad radioförbindelse ska upprätthållas med vederbörande ATS-enhet.
- c) IFR-flygning ska i första positionsrapport efter frekvensskifte anmäla aktuell flyghöjd samt i förekommande fall den flyghöjd till vilken luftfartyget stiger eller sjunker.
- d) Efterföljande positionsrapport, om sådan föreskrivits eller begärts, behöver endast innehålla luftfartygets beteckning, position och tid över denna.
- e) VFR-flygning ska vid första radiokontakt ange position, flyghöjd och avsedd flygväg.
- f) Är luftfartyget utrustat med fungerande SSR-transponder, ska denna vara tillslagen och inställd på av ATS anvisad mod och kod eller, om sådan anvisning inte erhållits, på mod A kod 7000. Finns mod C-utrustning, ska den vara aktiverad.
- g) Åtgärd som innebär ändring av gällande färdplan (t.ex. ändring av flyghöjd) bör inte vidtas förrän den meddelats till och kvitterats av ATS.

6.3 *Trafikinformation.* När omständigheterna så medger, lämnar ATS trafikinformation till luftfartyg.

6.4 Under en ATS-enhets öppethållningstid är flyginformations- och alarmeringstjänsten under samtliga TMA och TIA delegerade från ACC till berörd ATS-enhet i TMA eller TIA enligt AIP ENR 2.1 och AD 2.

6.5 För att effektivisera flyginformationstjänsten kan, när så bedöms lämpligt, IFR-flygning som är föremål för radartjänst lämnas råd om lämplig manöver för att förebygga kollisionsrisk. Sådana råd inleds med frasen »FÖRESLÅR/SUGGEST» och avslutas normalt med frasen »PÅ GRUND AV TRAFIK/DUE TO TRAFFIC». På begäran lämnas mer detaljerad information om orsaken till rådet. Ansvaret för vidtagna åtgärder (manövrer) åvilar befälhavaren. ATS bör informeras om avsedd åtgärd innan den vidtas.

- flights may only be planned on CDRs 2 in accordance with conditions published daily.

5.7 CDR 3

Not Plannable CDR.

- CDRs 3 are published in AIP as CDRs usable on ATC instructions only.
- flights will be rerouted on CDRs 3 on ATC instructions as short notice routing proposals.

6 Flight outside controlled airspace

6.1 VFR flights during darkness shall be in accordance with "Commission Implementing Regulation (EU) No 923/2012 laying down the common rules of the air and operational provisions regarding services".

6.2 IFR outside controlled airspace above 5000 ft AMSL or 3000 ft AGL whichever is higher, or flying within or into traffic information zone or traffic information area the following applies:

- a) A flight plan shall be submitted to ATS.
- b) Two-way radio communication shall be established with the appropriate ATS-unit.
- c) An IFR flight shall in initial position report, after a change of radio frequency, report actual level with the addition of cleared level for aircraft in climb or descent.
- d) Any position report, if required subsequently, shall contain only aircraft identification, position and time over.
- e) A VFR flight shall at first radio contact report its position, level and intended route.
- f) If the aircraft carries a serviceable SSR transponder, this shall be operating and set to mode and code as instructed by ATS, or, if no such instruction has been received, to Mode A Code 7000. Mode C shall be operated whenever carried.
- g) No action requiring a change of the current flight plan (e.g. level change) should be taken until ATS has been so informed and has acknowledged this information.

6.3 *Traffic information.* Circumstances permitting, ATS will pass traffic information to aircraft.

6.4 During the operational hours of the ATS-unit, flight information and alerting service below TMA/TIA is delegated from ACC to the ATS-unit in TMA or TIA according to AIP ENR 2.1 and AD 2.

6.5 To render collision hazard information more effective, IFR flights provided with radar service may be given *advice on proper collision avoidance action* when deemed warranted. Such advice will be preceded by the word »SUGGEST» and will normally be followed by the phrase »DUE TO TRAFFIC». On request, more detailed traffic information will be given. The final responsibility for the collision avoidance action rests with the pilot-in-command. ATS should be informed on the intended action before execution.

1.3 Föreskrifter för IFR-flygning

1 (Reserv)

2 Tillämpning av SID och STAR

2.1 Allmänt

Flygning på SID och STAR utgör normalförfarande där sådana finns upprättade. Avsteg härifrån görs endast i följande fall:

- när flygsäkerheten så kräver;
- när navieringshjälpmedel på vilket flygväg baseras är ur funktion eller otillförlitligt;
- när luftfartygets prestanda medför trafikavveckling-svårigheter eller avsevärd försening
- vid visuellinflygning
- för att avkorta flygvägen när trafikförhållandena så medger och, vad avser SID, flyghöjden inte understiger 5 000 ft AMSL (tillämpas endast vid vissa flygplatser); eller
- med propellerdrivna luftfartyg av turbulenskategori L (AUW 7 000 kg eller lägre).

2.2 Stiggradient på SID

Luftfartyg som flyger på SID skall använda en stiggradient minimum 400 ft per NM (6.6%). Luftfartyg som inte kan uppfylla detta villkor skall meddela ATC.

3 Beräknad inflygningstid

(Ref ICAO Doc 4444/PANS-ATM 6.5.7).

Där inflygningsradar finns tillgänglig tillämpas följande beträffande »beräknad inflygningstid»:

3.1 Flygning i väntläge förutses inte:

»Beräknad inflygningstid» meddelas inte.

3.2 Flygning i väntläge förutses:

- Om 30 minuters försening eller mer förutses, meddelar områdeskontrollen (ACC) »beräknad inflygningstid» vid tidigast möjliga tidpunkt.
- Om mindre än 30 minuters försening förutses, meddelar den ATS-enhet som utövar inflygningskontrolltjänst »beräknad inflygningstid» snarast efter det att radioförbindelse upprättats med luftfartyget.
- Meddelad »beräknad inflygningstid» rättas då avvikelsern uppgår till 5 minuter eller mer.

1.3 Instrument flight rules

1 (Reserved)

2 Utilization of SID and STAR systems

2.1 General

Flight on SID and STAR, where established, constitutes the standard procedure, from which it is deviated under the following circumstances only:

- when the safety of air traffic so demands;
- when a navigational aid on which a route is based is unserviceable or unreliable;
- when the performance of an aircraft would cause difficulties or considerable delay in the handling of air traffic flow;
- when a visual approach is being executed;
- to reduce flight distance whenever traffic conditions so permit, but, as regards SIDs only at levels not below 5 000 ft AMSL (this is applied at certain aerodromes only); or
- with propeller-driven aircraft belonging to wake turbulence category L (AUW 7 000 kg or less).

2.2 Climb gradient on SID

Aircraft proceeding on SID shall use a minimum gradient of climb of 400 ft per NM (6.6%). Aircraft unable to conform with this procedure shall inform ATC accordingly.

3 Expected approach time

(Ref ICAO Doc 4444/PANS-ATM 6.5.7).

Where approach radar is available, the following procedures will be applied as regards »expected approach time»:

3.1 Holding not anticipated:

»Expected approach time» will not be transmitted.

3.2 Holding anticipated:

- If a delay of 30 minutes or more is anticipated, the area control centre will transmit »expected approach time» as soon as possible.
- If a delay of less than 30 minutes is anticipated, the unit providing approach control service will transmit »expected approach time» as soon as radio communication has been established with the aircraft.
- »Expected approach time», transmitted to an aircraft, will be revised in case of a difference of 5 minutes or more.

4 FRA föreskrifter**4.1 Kvalificerade flygningar**

Kvalificerade flygningar är de överflygningar som kommer in i och lämnar DK-SE FAB FRA (FL285-FL660). Överflygningar som byter flygnivå in till DK-SE FAB FRA är kvalificerade att färdplanera FRA från den FRA Connecting Point där höjdsnittet sker.

Ytterligare kvalificerade flygningar är de som startar från eller ankommer till flygplatser inom DK-SE FAB eller i dess närhet och har en begärd flygnivå över FL285 inom FABet.

4.2 Föreskrifter

Kvalificerade flygningar får färdplanera enligt nedanstående tabell:

From	To	Remark
FRA Horizontal Entry Point	FRA Horizontal Exit Point	Flight plan DCT or via one or several intermediate points. Such an intermediate point can be either a NAV aid (published in ENR 4.1) / waypoint (published in ENR 4.4) or entered as lat/long coordinates. Färdplanera DCT eller via en eller flera intermediate punkt/er. En sådan intermediate punkt kan antingen vara ett radionavigationshjälpmedel (publicerad i ENR 4.1) / en signifikant punkt (publicerad i ENR 4.4) eller en lat/long koordinat.
	FRA Arrival Connecting Point	
	FRA Connecting Point	
FRA Departure Connecting Point	FRA Horizontal Exit Point	
	FRA Arrival Connecting Point	
	FRA Connecting Point	
FRA Connecting Point	FRA Horizontal Exit Point	
	FRA Arrival Connecting Point	
	FRA Connecting Point	

Det finns ett krav på att färdplanera via FRA Horizontal Entry/Exit Point när man kommer in i eller lämnar DK-SE FAB med undantag för trafik mellan DK-SE FAB och

- EETT/EFIN/ENOR/EVRR/EGPX FIR respektive
- EDVV/EDUU/EHAA/EPWW FIR/UIR (enbart för trafik startande eller landande på flygplatser i DK-SE FAB, utan att beröra ENOR FIR).

Färdplanera inte närmre än 3 NM längs DK-SE FAB gränsen med undantag för EETT/EFIN/EDVV/EDUU/EHAA/ENOR/EVRR/EGPX FIR/UIR.

Tillträde till FRA för startande trafik:

En FRA Departure Connecting Point kan antingen vara:

- en SID Final Waypoint,
- om det saknas lämplig SID en valfri punkt, enligt krav i RAD, inom specifikt avstånd från flygplatsen,
- om krav finns, den sista punkten på en FRA Connecting Route eller
- en FRA Horizontal Entry Point vid start från en flygplats i DK-SE FABs närhet.

4 FRA general procedures**4.1 Eligible flights**

Eligible flights are those over-flights that enter and exit DK-SE FAB FRA (FL285-FL660). Over-flights with a level change enroute into DK-SE FAB FRA are eligible to flight plan FRA operations from the FRA Connecting Point where the level change occurs.

Additional eligible flights are those that depart or arrive from/to aerodromes within DK-SE FAB or in its proximity and have a requested flight level above FL285 within the FAB.

4.2 Procedures

Eligible flights may flight plan according to the table below.

It is mandatory to insert a FRA Horizontal Entry/Exit Point in the flight plan when entering/exiting DK-SE FAB except for traffic entering/exiting from/to

- EETT/EFIN/ENOR/EVRR/EGPX FIR and
- EDVV/EDUU/EHAA/EPWW FIR/UIR (only for traffic arriving or departing aerodromes within DK-SE FAB, without crossing ENOR FIR).

Flight plan shall be filed to remain at least 3 NM from DK-SE FAB boundary except towards EETT/EFIN/EDVV/EDUU/EHAA/ENOR/EVRR/EGPX FIR/UIR.

Access to FRA for departing traffic:

FRA Departure Connecting Point can either be:

- a SID Final Waypoint,
- if no suitable SID is available, an optional waypoint within a required distance from the aerodrome according to the RAD,
- if required, the last point on a FRA Connecting Route or
- a FRA Horizontal Entry Point if departing from aerodrome in the proximity of DK-SE FAB.

Lämna FRA för ankommande trafik:

En FRA Arrival Connecting Point kan antingen vara:

- en STAR Initial Waypoint,
- om det saknas lämplig STAR en valfri punkt, enligt krav i RAD, inom specifikt avstånd från flygplatsen,
- om krav finns, den första punkten på en FRA Connecting Route eller
- en FRA Horizontal Exit Point vid ankomst till en flygplats i DK-SE FABs närhet.

Exiting FRA for arriving traffic:

FRA Arrival Connecting Point can either be:

- a STAR Initial Waypoint,
- if no suitable STAR is available, an optional waypoint within a required distance from the aerodrome according to the RAD,
- if required, the first point on a FRA Connecting Route or
- a FRA Horizontal Exit Point if arriving to an aerodrome in the proximity of DK-SE FAB.

DK – SE FAB FRA Horizontal Entry/Exit

DK-SE FAB FRA Horizontal Entry/Exit from/to EHAA FIR (not mandatory for traffic departing/arriving from/to aerodromes within DK-SE FAB):	AMADA, GREFI, SUTEB
DK-SE FAB FRA Horizontal Entry/Exit from/to EYVL FIR:	NINTA
DK-SE FAB FRA Horizontal Entry/Exit from/to UMKK FIR:	GISON
DK-SE FAB FRA Horizontal Entry/Exit from/to EPWW FIR (not mandatory for traffic departing/arriving from/to aerodromes within DK-SE FAB):	AMROR, GORPI, GOSOT, KOLOB, LARMA, LUSID, PENOR, POKEN, RUMAR
DK-SE FAB FRA Horizontal Entry/Exit from/to EDUU UIR (not mandatory for traffic departing/arriving from/to aerodromes within DK-SE FAB):	BAKLI, BIKRU, DETNI, KOSEB, NEDIK, NIKDA, OKAGA, SALLO, SONAL, UNGAV
DK-SE FAB FRA Horizontal Entry/Exit from/to EDVV UIR (not mandatory for traffic departing/arriving from/to aerodromes within DK-SE FAB):	ALASA, AMRAK, ATTUS, BAGOS, DEMIR, DOROR, DOSUR, GIMRU, GITER, GOBOT, KESUR, KOKOR, KUGAL, LOMPU, LUTIR, MAKEL, MEGAR, OMIMA, RAXLU, TUSKA

"FRA Connecting Routes" finns beskrivna i ENR 3.5

"FRA Connecting Routes" are described in ENR 3.5

5 Instrumentinflygning

5.1 Instrumentinflygningar till svenska flygplatser skall utföras i enlighet med godkända procedurer för instrumentinflygning.

Som godkända procedurer för instrumentinflygning betraktas:

- Procedurer publicerade i AIP-SVERIGE; och
- Procedurer som godkänts av Transportstyrelsen för en enskild operatör och även delgivits vederbörande ATS-enhet.

Anm. Detta förhindrar inte möjligheten att genomföra visuell inflygning (visual approach).

5.2 De i Sverige publicerade procedurerna för instrumentinflygning är konstruerade enligt ICAO PANS-OPS Doc 8168-OPS/611, VOL II. Flygoperativa förutsättningar framgår av ICAO PANS-OPS Doc 8168-OPS/611, VOL I.

6 Visuellinflygning

Luffartyg anses begära klarering för visuellinflygning om det rapporterar »FIELD IN SIGHT». Om klarering lämnas för sådan inflygning kan det, bl a för att nedbringa störning genom flygbuller, innefatta restriktioner beträffande flygväg och/eller flyghöjd (er).

5 Instrument approach procedures

5.1 Instrument approaches to Swedish aerodromes shall be conducted in accordance with authorized instrument approach procedures.

As authorized instrument approach procedures the following are regarded:

- The procedures published in AIP-SWEDEN; and
- Procedures approved by special authorization issued by the Swedish Transport Agency, to the operator concerned, and known to the appropriate ATS unit.

Note. This does not prevent the possibility to make a visual approach.

5.2 Instrument approach procedures in Sweden are constructed in accordance with ICAO PANS-OPS Doc 8168-OPS/611, VOL II. The operational procedures are described in ICAO PANS-OPS Doc 8168-OPS/611, VOL I.

6 Visual approach procedures

Aircraft are considered to request an ATC clearance for a visual approach if reporting »FIELD IN SIGHT». Should a clearance for this type of approach be issued it may i.a for noise abatement purposes include restrictions as regards route to be followed and/or level(s) to be maintained.

7 Gräns för hinderfrihet

7.1 Gräns för hinderfrihet (OCA/H). Den lägsta höjd över havet (OCA) alternativt den lägsta höjd över berörd bantröskel eller över flygplatsen (OCH) som får tillämpas vid inflygning för landning, för att tillförsäkra att fastlagda hinderfrihetskriterier innehålls.

7.2 OCA/H för svenska flygplatser är upprättade i enlighet med anvisningarna i ICAO Doc 8168–OPS/611, Aircraft Operations, Part II.

7.3 OCA/H för de olika inflygningshjälpmedlen vid svenska flygplatser är angivna på instrumentinflygningskartorna (IAC) för respektive flygplatser och hjälpmedel.

8 Bansynvidd

8.1 Vid flygplats där så är möjligt lämnas uppgift om bansynvidd (RVR):

- när den meteorologiska sikten underskrider 1 500 m, eller
- i övrigt i tveksamma fall, exempelvis när dimbankar observeras inom manöverområdet.

8.2 (Ref ICAO Doc 4444/PANS–ATM 11.4.3.2.3.3). Om bansynvidd observeras (mäts) från fler än en plats längs banan, benämns de olika platserna i klartext med termerna »SÄTTNINGSZON», »MITTZON» respektive »STOPPZON». Exempel: »RVR BANA 16, SÄTTNINGSZON 650 METER, MITTZON 500 METER».

När alla tre värdena lämnas samtidigt, får dock rapporteringen ske med endast tre siffervärden, som avser sättningszon, mittzon och stoppzon i denna ordning (exempel: »RVR BANA 16, 650, 500, 600 METER»).

9 Väntning

9.1 Fast upprättade väntlägen är publicerade på berörda IAC. Väntlägen inom vissa terminalområden är även beskrivna i AD 2. Väntlägen En-route är beskrivna i ENR 3.6.

9.2 Ingång i och flygning i väntläge skall ske i enlighet med de förfaranden som anges i ICAO Doc 8168 PANS–OPS, såvida inte annat framgår av berörd IAC.

9.3 Luftfartyg som instruerats att vänta och inte kan uppfylla för väntläget angivna villkor skall snarast meddela ATC härom.

Anm. Luftfartyg som flyger i väntlägen vars väntområden är åtskilda minst 1 NM anses separerade i sidled.

9.4 Angivna minimihöjder för publicerade väntlägen har i förekommande fall bestämts med hänsyn även till undre gräns för kontrollområde respektive informationsområde.

10 Avbrott i radioförbindelse

(Ref ICAO Doc 4444 Chapter 15)

- 10.1 Visuella väderförhållanden (VMC)

7 Obstacle clearance altitude/height

7.1 Obstacle clearance altitude/height (OCA/H). The lowest altitude (OCA), or alternatively the lowest height above the elevation of the relevant runway threshold or above the aerodrome elevation as applicable (OCH), used in establishing compliance with the appropriate obstacle clearance criteria.

7.2 OCA/H for Swedish aerodromes are established on the basis of the procedures in ICAO Doc 8168–OPS/ 611, Aircraft Operations, Part II.

7.3 OCA/H for the different approach aids at Swedish aerodromes are shown in the Instrument Approach Charts (IAC) for the respective aerodromes and approach aids.

8 Runway visual range

8.1 At aerodromes where so is practicable, information on runway visual range (RVR) will be given:

- when the meteorological visibility is less than 1 500 m, or
- otherwise in doubtful cases, e.g. when fog patches are observed on the manoeuvring area.

8.2 (Ref ICAO Doc 4444/PANS–ATM 11.4.3.2.3.3). If RVR is observed (measured) from more than one location along the runway, the locations are given in plain language using the terms »TOUCHDOWN», »MIDPOINT», and »STOPEND», respectively. Example: »RVR RUNWAY 16, TOUCHDOWN 650 METRES, MIDPOINT 500 METRES».

When all three locations are reported, they may however be passed as three numbers only, relating to touchdown, midpoint, and stopend in that sequence (example: »RVR RUNWAY 16, 650, 500, 600 METRES»).

9 Holding

9.1 Permanently established holding patterns are published on the appropriate IAC. Holding patterns within some terminal control areas are described in AD 2. En-route holdings are described in ENR 3.6.

9.2 Holding patterns shall be entered and flown in accordance with the procedures stipulated in ICAO Doc 8168 PANS–OPS, unless otherwise specified on the IAC concerned.

9.3 Aircraft instructed to hold and unable to conform with the procedures stipulated for the holding pattern shall as soon as possible inform ATC accordingly.

Note. Aircraft are considered laterally separated when flying in adjacent holding patterns, the holding areas of which are at all points at least 1 NM apart.

9.4 The minimum levels specified for the published holding patterns have been determined with regard also to the lower limit of the control area or information area concerned.

10 Communication failure procedure

(Ref ICAO Doc 4444 Chapter 15)

- 10.1 Visual meteorological conditions (VMC)

Med undantag av vad som anges i mom 10.2 nedan skall en kontrollerad flygning som drabbas av radiobortfall i VMC:

- a) ställa in transpondern på kod 7600;
- b) fortsätta flygningen i VMC;
- c) landa på närmast belägna lämpliga flygplats; och
- d) meddela sin ankomst på snabbast möjliga sätt till vederbörande flygtrafikledningsenhet.

10.2 Instrumentväderförhållanden (IMC)

En kontrollerad IFR-flygning som drabbas av radiobortfall i IMC, eller som inte bedöms kunna fortsätta sin flygning i VMC enligt 10.1, skall:

- a) ställa in transpondern på kod 7600;
- b) under en period av 7 minuter bibehålla senast tilldelade fart och flyghöjd, eller lägsta hinderfria höjd över havet (minimum flight altitude) om denna är högre än senast tilldelade flyghöjd. 7-minutersperioden börjar
 - 1) under flygning på en flygväg utan obligatoriska rapportpunkter eller om instruktion har tagits emot att slopa positionsrapportering,

vid den senaste av följande tidpunkter:

- den tidpunkt då den senaste tilldelade flyghöjden eller den lägsta hinderfria höjden över havet (minimum flight altitude) uppnås, eller

- den tidpunkt transpondern ställts in på kod 7600 eller

- 2) under flygning på en flygväg med obligatoriska rapportpunkter och ingen instruktion att slopa positionsrapportering har tagits emot,

vid den senaste av följande tidpunkter:

- den tidpunkt då den senast tilldelade flyghöjden eller den lägsta hinderfria höjden över havet (minimum flight altitude) uppnås, eller

- den beräknade tidpunkt över den obligatoriska rapportpunkten som tidigare meddelats av piloten, eller

- den tidpunkt då sändningen av positionsrapport över en obligatorisk positionsrapportpunkt har misslyckats.

Anm. 7-minutersperioden är avsedd att ge tid för nödvändiga flygkontroll- och samordningsåtgärder.

Except as provided for in para 10.2 below, a controlled flight experiencing communication failure in VMC shall:

- a) set transponder to Code 7600;
- b) continue to fly in VMC;
- c) land at the nearest suitable aerodrome; and
- d) report its arrival time by the most expeditious means to the appropriate ATS unit.

10.2 Instrument meteorological conditions (IMC)

A controlled IFR flight experiencing communication failure in IMC, or where it does not appear feasible to continue in accordance with 10.1 shall:

- a) set transponder to Code 7600;
- b) maintain for a period of 7 minutes the last assigned speed and level or the minimum flight altitude, if the minimum flight altitude is higher than the last assigned level. The period of 7 minutes commences:
 - 1) if operating on a route without compulsory reporting points or if instructions have been received to omit position reports:

- at the time the last assigned level or minimum flight altitude is reached, or

- at the time the transponder is set to Code 7600,

whichever is later, or

- 2) if operating on a route with compulsory reporting points and no instruction to omit position reports has been received:

- at the time the last assigned level or minimum flight altitude is reached, or

- at previously reported pilot estimate for the compulsory reporting point, or

- at the time of a failed report of position over a compulsory reporting point,

whichever is later;

Note. The period of 7 minutes is to allow the necessary air traffic control and coordination measures.

c) därefter, anpassa flyghöjd och fart till vad som anges i den inlämnade färdplanen;

Anm. I fråga om ändringar av flyghöjder och fart används den inlämnade färdplanen. Det är den färdplan som lämnats till en ATS-enhet eller till IFPS av piloten eller en behörig representant utan några senare ändringar.

d) om luftfartyget vektoreras eller framförs »offset» enligt RNAV utan angiven begränsning: på snabbaste sätt återgå till den flygväg som anges i den gällande färdplanen för att angöra denna senast vid nästa signifikanta punkt, med beaktande av lägsta hinderfria flyghöjd (minimum flight altitude).

Anm. I fråga om flygväg som skall följas eller den tidpunkt då nedgång skall påbörjas mot destinationsflygplatsen används den gällande färdplanen. Det är den färdplan som inkluderar de ändringar som kan ha tillkommit genom efterföljande klareringar.

e) fortsätta flygningen längs den flygväg som anges i den gällande färdplanen till tillämpligt fastställt navigeringshjälpmedel vid destinationsflygplatsen och, om så behövs för att uppfylla villkoren i 10.2 f), vänta över detta hjälpmedel till dess att nedgång påbörjas;

f) påbörja nedgång vid det navigeringshjälpmedel som anges i 10.2 e) vid senast meddelad och kvitterad beräknad inflygningstid, eller så nära denna som möjligt. Har beräknad inflygningstid inte meddelats och kvitterats, påbörja nedgång vid den beräknade ankomsttid som beräknas från gällande färdplan, eller så nära denna tid som möjligt;

g) fullfölja det normala instrumentinflygningsförfarande som publicerats för det fastställda navigeringshjälpmedlet, och

h) landa, om möjligt, inom 30 minuter efter den senaste av följande tidpunkter: den beräknade ankomsttiden enligt 10.2 f) eller senast kvitterade beräknade inflygningstid.

Anm. Piloter bör beakta att luftfartyget kan befinna sig utanför SSR-täckning.

Anm. Vid vissa flygplatser finns kompletterande förfaranden för radiobortfall vid VFR-flygning och/eller IFR-flygning. Dessa publiceras i AD 2.

11 Flygning inom SUECIA CTA

11.1 För att underlätta flygtrafikledningstjänsten skall flygning inom SUECIA CTA FL095-FL285 där så är rimligt färdplaneras längs publicerade ATS-flygvägar. Trafik som färdplanerat en CDR1 eller ett DCT segment, under publicerad militär flygövningstid, som kommer i konflikt med en eller flera aktiva områden för militär övningsverksamhet, kommer beroende på aktiviteten, att få en alternativ klarering med en för svenskt FIR total flygvägsförlängning som normalt inte överstiger 10 NM, men kan i undantagsfall maximalt bli 20 NM.

11.2 När trafiksituationen så tillåter, kan ATC lämna klarering längs en kortare flygväg än den som färdplanerats och/eller tilldelats luftfartyget i tidigare lämnad klarering.

Anm. ATC tar normalt inte initiativ till sådan ändring av klarering, som skulle föra luftfartyget utanför kontrollerat luftrum under stigning till eller nedgång från SUECIA CTA.

c) thereafter, adjust level and speed in accordance with the filed flight plan;

Note. With regard to changes to levels and speed, the filed flight plan, which is the flight plan as filed with an ATS unit by the pilot or a designated representative without any subsequent changes, will be used.

d) if being vectored or proceeding offset according to RNAV without a specified limit, proceed in the most direct manner possible to rejoin the current flight plan route no later than the next significant point, taking into consideration the applicable minimum flight altitude;

Note. With regard to the route to be flown or the time to begin descent to the arrival aerodrome, the current flight plan, which is the flight plan including changes, if any, brought about by subsequent clearances, will be used.

e) proceed according to the current flight plan route to the appropriate designated navigation aid serving the destination aerodrome and, when required to ensure compliance with 10.2 f), hold over this navigation aid until commencement of descent.

f) commence descent from the navigation aid specified in 10.2 e) at, or as close as possible to, the expected approach time last received and acknowledged or, if no expected approach time has been received and acknowledged, at, or as close as possible to, the estimated time of arrival resulting from the current flight plan;

g) complete a normal instrument approach procedure as specified for the designated navigation aid; and

h) land, if possible, within thirty minutes after the expected time of arrival specified in 10.2 f) or the last acknowledged expected approach time, whichever is later.

Note. Pilots are reminded that the aircraft may not be in an area of secondary surveillance radar coverage.

Note. At some aerodromes local procedures are established for communication failure during VFR and/or IFR flight. These procedures are published in AD 2.

11 Flight within SUECIA CTA

11.1 In order to facilitate the air traffic services, flight within SUECIA CTA FL095-FL285 shall be flight planned via published ATS routes where reasonable. Traffic with a flightplan on a CDR1 or a DCT track during military exercise hours, that conflicts with one or several Swedish active military training areas, will pending on activity be given alternative routing with a total route extension in Swedish FIR that normally will not exceed 10 NM but in rare cases a maximum of 20 NM.

11.2 When traffic situation permitting, ATC may clear aircraft to fly a shorter route than the one flight planned or previously assigned to the aircraft.

Note. Normally, ATC will not initiate any reclearance that would bring the aircraft outside controlled airspace from SUECIA CTA.

RNAV ROUTES							
RNAV 5 represents a navigation accuracy of ± 5 NM on a 95 per cent containment basis.							
Route designator (RNAV/RNP type) Name of significant points Coordinates	Way-point IDENT (NIL)	Geodesic DIST NM	Upper limits / Lower limits Airspace classification	Direction of cruising levels		Remarks Controlling unit Logon Channel address	
				Odd	Even		
1	2	3	4	5		6	
P854 (RNAV 5)	△ LAMPI FIR BDRY 633219N 0210212E	NIL	11.7	FL 285 / FL 095 Class C	↑	↓	For continuation, see AIP Finland.
	△ ROSMO 634159N 0204739E	NIL	15.0	FL 285 / FL 095 Class C	↑	↓	
	△ LAPIX 635421N 0202844E	NIL					
P855 (RNAV 5)	△ TOGMI FIR BDRY 614543N 0193225E	NIL	228.3	FL 285 / FL 245 Class C	↑	↓	For continuation, see AIP Finland.
	△ SOLKA FIR BDRY 631951N 0120309E	NIL					For continuation, see AIP Norway.
P862 (RNAV 5)	△ EVONA FIR BDRY 570954N 0195529E	NIL	260.4	FL 285 / FL 095 Class C	↑		For continuation, see AIP Latvia. To avoid ES R34, ES R55, ES R63, ES R64 and ES D164-166 TEMPO radar vectoring on ATC instruction. Route extension: Max 4 NM CDR1 H24
	△ MALIV 550945.8N 0130212.7E	NIL					
P863 (RNAV 5)	△ DEREK FIR BDRY 574022N 0201239E	NIL	199.5	FL 285 / FL 095 Class C		↓	For continuation, see AIP Latvia. CDR1 H24
	△ KOTAM 560758N 0145012E	NIL					
P998 (RNAV 5)	△ SUTEV FIR BDRY 643314N 0224416E	NIL	61.3	FL 285 / FL 095 Class C	↑	↓	For continuation, see AIP Finland. CDR1 H24
	△ LULEÅ VOR/DME SLU 653224.8N 0220803.3E	NIL					
Q44 (RNAV 5)	△ KEMAX 560735N 0132714E	NIL	35.0	FL 660 / FL 095 Class C	↓		CDR1 H24
	△ IDPAL 562738N 0141841E	NIL	246.1	FL 285 / FL 095 Class C	↓		CDR1 H24
	△ NEREN FIR BDRY 583740N 0204618E	NIL					For continuation, see AIP Estonia.
Q800 (RNAV 5)	△ POKEN FIR BDRY 544911N 0143351E	NIL	72.2	FL 285 / FL 095 Class C	↓	↑	For continuation, see AIP Poland. To avoid EK R95, EK R96, ES D138 and ES D139 TEMPO radar vectoring on ATC instruction. Route extension: GND-FL200 Max 27 NM. FL200 and above MAX 7 NM.
	△ LARMA FIR BDRY 551628N 0163006E	NIL					For continuation, see AIP Poland.

RNAV ROUTES							
RNAV 5 represents a navigation accuracy of ± 5 NM on a 95 per cent containment basis.							
Route designator (RNAV/RNP type) Name of significant points Coordinates	Way-point IDENT (NIL)	Geodesic DIST NM	Upper limits / Lower limits Airspace classification	Direction of cruising levels		Remarks Controlling unit Logon Channel address	
				Odd	Even		
1	2	3	4	5		6	
T31 (RNAV 5)	Δ BODRI FIR BDRY 622454N 0194927E	NIL	99.3	FL 285 / FL 095 Class C		↓	
	Δ SIPRI 605044N 0184506E	NIL	35.7	FL 660 / FL 095 Class C		↓	
	Δ HAMMAR DVOR/DME HMR 601645.2N 0182329.6E	NIL	80.3	FL 285 / FL 095 Class C		↓	
	Δ NOSLI 590422.0N 0171529.2E	NIL					
T63 (RNAV 5)	Δ USIKI FIR BDRY 661527N 0152342E	NIL	20.1	FL 285 / FL 105 Class C	↓		For continuation, see AIP Norway.
	Δ BAMIP 655647N 0154142E	NIL					
T64 (RNAV 5)	Δ SOLKA FIR BDRY 631951N 0120309E	NIL	52.1	FL 285 / FL 115 Class C	↓	↑	
	Δ DIRAV 634923N 0133907E	NIL	18.8	FL 285 / FL 115 Class C	↓	↑	
	Δ NETAV 635947N 0141437E	NIL					

RNAV ROUTES							
RNAV 5 represents a navigation accuracy of ± 5 NM on a 95 per cent containment basis.							
Route designator (RNAV/RNP type) Name of significant points Coordinates	Way-point IDENT (NIL)	Geodesic DIST NM	Upper limits / Lower limits Airspace classification	Direction of cruising levels		Remarks Controlling unit Logon Channel address	
				Odd	Even		
1	2	3	4	5		6	
Z11 (RNAV 5)	Δ KOGAV 600452.0N 0171346.6E	NIL	181.7	FL 285 / FL 095 Class C		↓	To avoid ES R209 TEMPO radar vectoring on ATC instructions. Route extension: Max 10 NM.
	Δ OVDAL 622343N 0131205E	NIL	44.2	FL 285 / FL 115 Class C		↓	
	Δ TIGBA FIR BDRY 625614N 0120731E	NIL					
Z15 (RNAV 5)	Δ ROVPA FIR BDRY 604402N 0122344E	NIL	25.1	FL 285 / FL 095 Class C	↓		To avoid ES R200 TEMPO radar vectoring on ATC instruction. Route extension: Max 2 NM
	Δ LOMLA 603526.5N 0131137.0E	NIL	122.6	FL 285 / FL 095 Class C	↓		
	Δ ELTOK 594928.0N 0165923.7E	NIL					
Z108 (RNAV 5)	Δ NOGBO FIR BDRY 642745N 0140650E	NIL	17.1	FL 285 / FL 115 Class C	↓	↑	For continuation, see AIP Norway. CDR1 H24
	Δ ATLEM 643642N 0144040E	NIL	12.7	FL 285 / FL 115 Class C	↓	↑	
	Δ AGMOL 644313N 0150554E	NIL					
Z132 (RNAV 5)	Δ LATKU 583326N 0115813E	NIL	17.3	FL 660 / FL 095 Class C	↑		Above FL285 AVBL eastbound only. For continuation, see AIP Norway.
	Δ XENTA 584129N 0112858E	NIL	27.1	FL 660 / FL 095 Class C	↑	↓	
	Δ BOMGU FIR BDRY 585424N 0104307E	NIL					
Z155 (RNAV 5)	Δ TOGMI FIR BDRY 614543N 0193225E	NIL	16.8	FL 285 / FL 245 Class C	↑	↓	
	Δ RIKPA 614947N 0185800E	NIL	194.5	FL 285 / FL 245 Class C	↑	↓	
	Δ OLGUV FIR BDRY 622603N 0121053E	NIL					

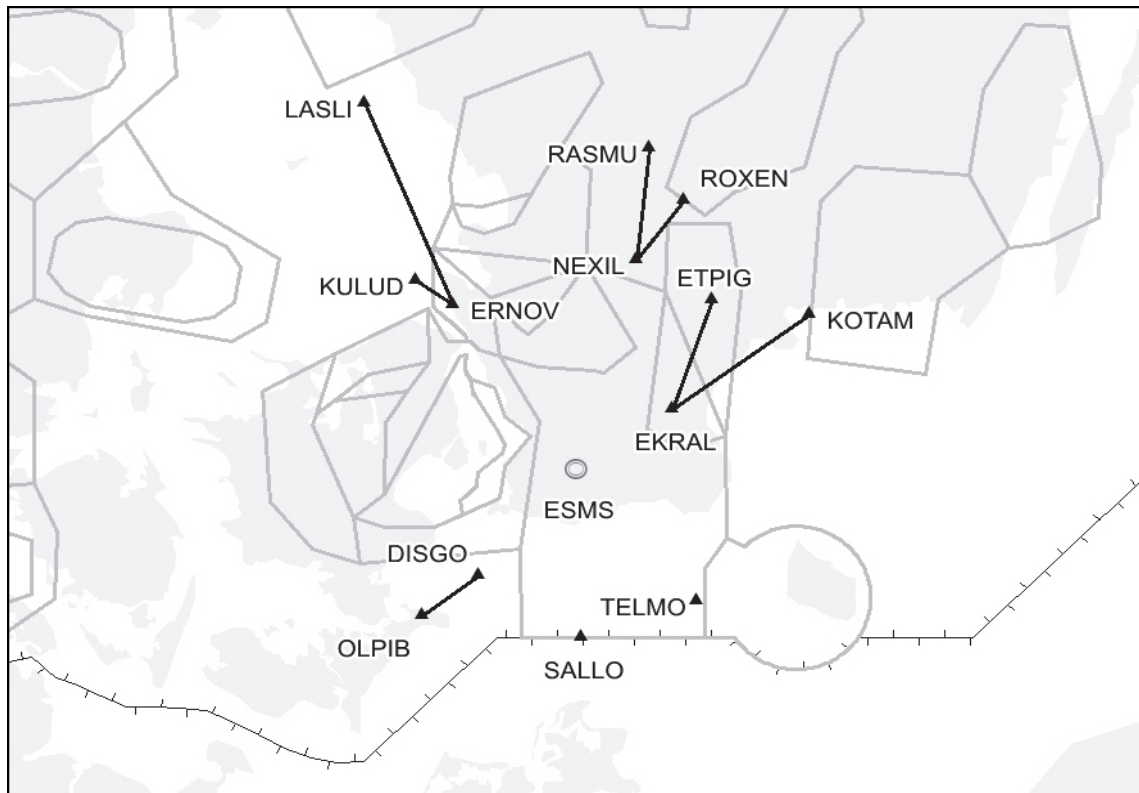
RNAV ROUTES							
RNAV 5 represents a navigation accuracy of ±5 NM on a 95 per cent containment basis.							
Route designator (RNAV/RNP type) Name of significant points Coordinates	Way-point IDENT (NIL)	Geodesic DIST NM	Upper limits / Lower limits Airspace classification	Direction of cruising levels		Remarks Controlling unit Logon Channel address	
				Odd	Even		
1	2	3	4	5		6	
Z166 (RNAV 5)	Δ VATEX FIR BDRY 591903N 0114914E	NIL	_____		_____	_____	
			30.3	FL 660 / FL 095 Class C	↓	↑	
	Δ NIBNO 594424N 0122132E	NIL	_____		_____	_____	
			69.9	FL 285 / FL 095 Class C	↓	↑	EBURI: Entry point for traffic from ESOK.
	Δ EBURI 594800N 0143938E	NIL	_____		_____	_____	
			63.2	FL 285 / FL 095 Class C	↓	↑	EBURI: Entry point for traffic from ESOK.
	Δ ARGIB 595053N 0164441E	NIL	_____		_____	_____	
Z183 (RNAV 5)	Δ MASEV FIR BDRY 601040N 0123205E	NIL	_____		_____	_____	
			57.7	FL 660 / FL 095 Class C	↓	_____	
	Δ LEGPO 600246N 0142618E	NIL	_____		_____	_____	
			26.3	FL 285 / FL 095 Class C	↓	_____	
	Δ MILNU 595837N 0151801E	NIL	_____		_____	_____	
			44.3	FL 285 / FL 095 Class C	↓	_____	
	Δ ARGIB 595053N 0164441E	NIL	_____		_____	_____	
			7.6	FL 285 / FL 095 Class C	↓	_____	
	Δ ELTOK 594928.0N 0165923.7E	NIL	_____		_____	_____	
Z212 (RNAV 5)	Δ POKEN FIR BDRY 544911N 0143351E	NIL	_____		_____	_____	
			16.2	FL 285 / FL 095 Class C	↓	↑	For continuation, see AIP Poland.
	Δ RØNNE VOR ROE 550356.08N 0144531.29E	NIL	_____		_____	_____	
Z226 (RNAV 5)	Δ PELUP 581643.8N 0162840.5E	NIL	_____		_____	_____	
			54.8	FL 660 / FL 095 Class C	↓	_____	To avoid ES R71 TEMPO radar vectoring on ATC instructions. Route extension: NIL
	Δ NILUG 584857N 0175305E	NIL	_____		_____	_____	
Z227 (RNAV 5)	Δ VIBAR 573441N 0162326E	NIL	_____		_____	_____	
			88.3	FL 660 / FL 095 Class C	↓	_____	To avoid ES R71 TEMPO radar vectoring on ATC instructions. Route extension: NIL
	Δ NILUG 584857N 0175305E	NIL	_____		_____	_____	CDR1 H24

RNAV ROUTES						
RNAV 5 represents a navigation accuracy of ±5 NM on a 95 per cent containment basis.						
Route designator (RNAV/RNP type) Name of significant points Coordinates	Way-point IDENT (NIL)	Geodesic DIST NM	Upper limits / Lower limits Airspace classification	Direction of cruising levels		Remarks Controlling unit Logon Channel address
				Odd	Even	
1	2	3	4	5		6
Z490 (RNAV 5)	△ ASTOS 560714N 0125741E	NIL	16.5	FL 660 / FL 095 Class C	↓	
	△ KEMAX 560735N 0132714E	NIL	46.4	FL 660 / FL 095 Class C	↓	
	△ KOTAM 560758N 0145012E	NIL				
Z491 (RNAV 5)	△ SIMEG 551500N 0133004E	NIL	24.2	FL 660 / FL 095 Class C	↓	
	△ TELMO 550316.6N 0140658.6E	NIL	12.9	FL 285 / FL 095 Class C	↓	
	△ KEKOV 545658N 0142628E	NIL	8.9	FL 285 / FL 095 Class C	↓	
	△ POKEN FIR BDRY 544911N 0143351E	NIL				For continuation, see AIP Poland.
Z493 (RNAV 5)	△ SIMEG 551500N 0133004E	NIL	30.5	FL 660 / FL 095 Class C	↓	CDR1 H24 For continuation, see AIP Germany.
	△ BIKRU FIR BDRY 545500N 0141000E	NIL				
Z540 (RNAV 5)	△ NEKLA 590000.0N 0191549.1E	NIL	25.4	FL 660 / FL 095 Class C	↑	↓
	△ ALOLA 591536N 0183706E	NIL				
Z702 (RNAV 5)	△ EVBAS FIR BDRY 560844N 0122840E	NIL	71.4	FL 285 / FL 245 Class C	↓	For continuation, see AIP Denmark.
	△ DEKIK 564552N 0141828E	NIL				
Z703 (RNAV 5)	△ ELPAX 580544N 0151624E	NIL	75.5	FL 660 / FL 095 Class C		↓
	△ UMIXA 570924N 0134302E	NIL	70.7	FL 285 / FL 095 Class C		↓
	△ KULUD FIR BDRY 561538N 0121959E	NIL				For continuation, see AIP Denmark.
Z731 (RNAV 5)	△ MAKUR FIR BDRY 572547.0N 0112425.0E	NIL	45.5	FL 285 / FL 095 Class C	↓	For continuation, see AIP Denmark.
	△ SABAK 581035.6N 0113833.8E	NIL				

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3.2 Startande trafik från ESMS

3.2 Departing traffic ESMS



ESMS SID Final Waypoint	ESMS FRA Departure Connecting Point	Flight Plan
NEXIL	ROXEN	NEXIL-N851-ROXEN-DCT
	RASMU	NEXIL-M736-RASMU-DCT
EKRAL	ETPIG	EKRAL-P605-ETPIG-DCT
	KOTAM	EKRAL-L990-KOTAM-DCT
TELMO	TELMO	TELMO-DCT
SALLO	SALLO	SALLO
DISGO	OLPIB	DISGO-OLPIB-DCT
ERNOV	LASLI	ERNOV-N15-LASLI-DCT
	KULUD	ERNOV-L621-KULUD-DCT

3.3 Startande trafik från ESTA

Enligt ENR 1.3.

3.4 Startande trafik från ESMT

Enligt ENR 1.3 eller VAKTA – BEDOS (om rimligt).

3.5 Startande trafik från ESMK

Enligt ENR 1.3.

3.6 Startande trafik från ESTL

Enligt ENR 1.3 eller OEM – KOTAM alternativt LB – LASLI eller LB – KULUD (om rimligt).

3.3 Departing traffic ESTA

According to ENR 1.3.

3.4 Departing traffic ESMT

According to ENR 1.3. or VAKTA – BEDOS (if suitable).

3.5 Departing traffic ESMK

According to ENR 1.3.

3.6 Departing traffic ESTL

According to ENR 1.3 or OEM – KOTAM alternative LB – LASLI or LB – KULUD (if suitable).

3.7 Landande trafik till EKCH/EKRK

3.7 Arriving traffic to EKCH/EKRK



EKCH/EKRK Arrival Connecting Point	EKCH STAR Initial Waypoint/ EKRK Initial Arrival Waypoint	Flight Plan
TOPLA	ERNOV	DCT to TOPLA-L996-ERNOV
TOKSI		DCT to TOKSI-N872-ERNOV
JON		DCT to JON-T402-ERNOV
KOTAM	TIDVU	DCT to KOTAM-L990-EKRAL-P605-TIDVU
ROE		DCT to ROE-M743-TIDVU
BAKLI		BAKLI-Z400-TIDVU
ELVIX		DCT to ELVIX-L975-TIDVU

ENR 4 RADIONAVIGATIONSHJÄLPMEDEL / RADIO NAVIGATION AIDS

4.1 Radionavigationshjälpmedel – en-route / Radion Navigation Aids – en-route

1 Radionavigationshjälpmedel – en-route, Sweden FIR / Radion Navigation Aids – en-route, Sweden FIR

Name of station (VOR/VAR)	ID	Frequency (CH)	Hours of operation	Coordinates	ELEV DME antenna	FRA relevance A = ARR D = DEP I = INT	Remarks
ARLANDA DVOR/DME/ 6°E 2020	ARL	116.00 MHz (107X)	H24	593912.3N 0175452.1E	149 ft	(I)	Coverage FL500/100 NM DVOR on R-286 between 14-12 NM interference that can be mistaken for overhead indication.
AROS DVOR/DME/ 6°E 2020	ARS	112.80 MHz (75X)	H24	593510.4N 0163901.2E	40 ft	(IA)	(A): ESSB Coverage FL500/80 NM
ARVIDSJAUR DME	ARV	109.35 MHz (30Y)	H24	653552.0N 0191546.3E	1276 ft		Coverage FL500/100 NM
BACKA DME	BAK	112.70 MHz (74X)	H24	573318.6N 0115836.6E	337 ft		Coverage FL500/80 NM
BORLÄNGE VOR/DME/ 5°E 2020	BOR	117.60 MHz (123X)	H24	602517.4N 0153109.1E	513 ft	(I)	Coverage FL500/100 NM Limited range of DME within sector 140°- 290°
BUNGE DME	BGE	116.60 MHz (113X)	H24	575106.9N 0190146.6E	131 ft		Coverage FL500/100 NM
FENGERSFORS DME	FEN	115.35 MHz (100Y)	H24	585500.9N 0121748.6E	608 ft		Coverage FL500/100 NM
FÄRILA DME	FRL	116.50 MHz (112X)	H24	614905.6N 0155045.1E	1233 ft		Coverage FL500/100 NM
HAMMAR DVOR/DME/ 6°E 2020	HMR	112.60 MHz (73X)	H24	601645.2N 0182329.6E	99 ft	(I)	Coverage 315°- 045° FL500/150 NM Coverage 045°- 315° FL500/100 NM Bearing information within the sector 150°-220° has an interference of a few seconds duration. The distance is proportional to the level (distance 15 NM at 4000 ft, 50 NM at 14 000 ft). The interference can be mistaken for an overhead indication.
HOTING DME	HOT	115.70 MHz (104X)	H24	641403.3N 0155559.8E	2153 ft		Coverage FL500/100 NM
JÖNKÖPING DVOR/DME/ 7°E 2025	JON	115.80 MHz (105X)	H24	574537.6N 0140355.5E	782 ft	(IA)	(A): EKCH, EKRK Coverage FL500/100 NM
KALMAR VOR/DME/ 6°E 2020	KAL	111.60 MHz (53X)	H24	564107.2N 0161702.8E	26 ft	(I)	Coverage 022.5°- 067.5° FL500/80 NM Coverage 067.5°- 022.5° FL500/160 NM
KARLSTAD VOR/DME/ 5°E 2020	KSD	117.80 MHz (125X)	H24	592632.8N 0131953.6E	341 ft	(ID)	(D): ENGM, ENRY, ENTO, ESSA, ESSB Coverage FL500/120 NM
KIRUNA DVOR/DME/ 10°E 2020	KRA	115.20 MHz (99X)	H24	674909.3N 0202015.3E	1505 ft	(I)	Coverage FL500/100 NM
LANDVETTER DVOR/DME/ 4°E 2020	LAV	114.60 MHz (93X)	H24	573922.0N 0121723.5E	574 ft	(I)	Coverage FL500/100 NM

Name of station (VOR/VAR)	ID	Frequency (CH)	Hours of operation	Coordinates	ELEV DME antenna	FRA relevance A = ARR D = DEP I = INT	Remarks
LULEÅ VOR/DME/ 10°E 2020	SLU	115.10 MHz (98X)	H24	653224.8N 0220803.3E	58 ft	(I)	Coverage FL500/60 NM
MÖRBYLÅNGA DME	MBL	115.60 MHz (103X)	H24	561622.7N 0162432.5E	114 ft		Coverage FL500/100 NM
NATTA VOR/DME/ 10°E 2020	NAT	113.00 MHz (77X)	H24	664447.6N 0211921.4E	1279 ft	(I)	Coverage FL500/80 NM
PAJALA DME	PJL	115.35 MHz (100Y)	H24	671455.9N 0230344.2E	594 ft		Coverage FL500/100 NM
RAMSELE DME	RAE	116.70 MHz (114X)	H24	633553.8N 0162448.0E	1187 ft		Coverage FL500/100 NM
RONNEBY DME	RON	109.20 MHz (29X)	H24	561515.3N 0151551.5E	194 ft		Coverage FL500/100 NM
RØNNE VOR/4°E 2016	ROE	112.00 MHz	H24	550356.08N 0144531.29E		(IA)	(A): EKCH, EKRK, ESMS Coverage FL500/80 NM Coverage 017°- 152° FL500/150 NM DME INFO from TACAN ROE
TACAN 4°E 2017	ROE	(57X)	H24	550342.73N 0144521.07E	78.6		Coverage FL 500/80 NM
SKELLEFTEÅ DVOR/DME/ 10°E 2025	SKA	113.40 MHz (81X)	H24	643736.1N 0210445.9E	189 ft	(I)	Coverage FL500/60 NM
SOPPERO DME	SPO	115.90 MHz (106X)	H24	680531.0N 0214125.8E	1313 ft		Coverage FL500/100 NM
STORUMAN DVOR/DME/ 8°E 2020	SUM	116.30 MHz (110X)	H24	645719.6N 0174229.8E	956 ft		Coverage FL500/100 NM
STURUP VOR/DME/ 4°E 2020	SUP	113.00 MHz (77X)	H24	553204.3N 0132246.5E	259 ft	(I)	Coverage FL500/80 NM
SUNDSVALL DVOR/DME/ 7°E 2020	SUN	113.10 MHz (78X)	H24	623142.4N 0172655.4E	46 ft	(I)	Coverage FL500/100 NM DVOR and DME on R-022 is approved to use from 22 NM and restricted due to low signal level between 30 NM and 22 NM.
SVEDA DME	SVD	116.20 MHz (109X)	H24	561008.1N 0123425.3E	45 ft		Coverage FL500/100 NM
SVEG DME	SVE	113.95 MHz (86Y)	H24	620247.2N 0142443.4E	1175 ft		Coverage FL500/100 NM
TEBBY DVOR/DME/ 6°E 2020	TEB	117.10 MHz (118X)	H24	593154.1N 0181211.9E	210 ft	(I)	Coverage FL500/100 NM
TROSA DVOR/DME/ 6°E 2020	TRS	114.30 MHz (90X)	H24	585616.5N 0173008.3E	208 ft	(I)	Coverage FL500/80 NM
UMEÅ VOR/DME/ 8°E 2020	UME	114.10 MHz (88X)	H24	634719.0N 0201706.8E	33 ft	(I)	Coverage FL500/150 NM
VASSEN DVOR/DME/ 6°E 2020	VSN	115.25 MHz (99Y)	H24	581811.7N 0154235.6E	438 ft	(I)	Coverage FL500/100 NM

4.4 Signifikanta punkter / Name-Code designators for significant points

Signifikanta punkter, Sweden FIR / Name-Code designators for significant points, Sweden FIR

Name code designator	Coordinates	ATS route or other route	FRA relevance E = FRA Horizontal Entry Point X = FRA Horizontal Exit Point A = FRA Arrival Connecting Point D = FRA Departure Connecting Point I = FRA Intermediate Point	Remark/Usage
ABALA	663930N 0230000E	T400	(I)	
ABAMA	575912N 0153411E	N850	(ID)	(D): ESSA, ESSB
ABAXI	664706N 0155233E	T65	(I)	
ABJAZ	602400N 0135000E	-	(I)	
ADVIS	552305N 0130023E	L990	(I)	
AGMOL	644313N 0150554E	M745, N150, Z108	(I)	
AGWIM	601700N 0145000E	-	(I)	
AKVOW	601200N 0171200E	-	(I)	Re-routing point
ALAMI	590252N 0205457E	N746, P606, T408	(I)	
ALOLA	591536N 0183706E	M851, M92, T316, T365, Z540	(I)	
AMPAD	641856N 0195004E	M852	(I)	
AMROR	545324N 0150550E	N983	(EX)	
AMSUR	560602N 0123350E	T402	(I)	
ANFEV	554659N 0171431E	-	(I)	
APTUG	591936N 0190820E	M851, P607	(I)	
APZER	584942N 0173438E	M996	(I)	
ARGIB	595053N 0164441E	P609, Z166, Z183	(I)	
ARIWA	601400N 0135000E	-	(I)	
ARJUD	672500N 0215700E	-	(I)	
ARMOD	573003N 0172046E	M607, Z228	(IAD)	(AD): ESSA, ESSB
ARPIV	613914N 0130957E	Z371	(I)	
ARQUS	570545.0N 0125543.1E	L617, ESGG STAR	(I)	
ARTAB	610000N 0182517E	M607	(I)	
ASKEB	662422N 0231658E	M852	(I)	
ASTOS	560714N 0125741E	Z451, Z490	(I)	
ASVOB	615204N 0175841E	T316	(I)	
ATLEM	643642N 0144040E	P600, Z108	(I)	
ATRIB	562524N 0123048E	L996	(I)	
BABAP	592520.2N 0184227.5E	N5, P156, P607, T316, ESSA SID	(ID)	(D): ESSA
BAKLA	612145N 0192457E	N5, P609	(I)	

Name code designator	Coordinates	ATS route or other route	FRA relevance E = FRA Horizontal Entry Point X = FRA Horizontal Exit Point A = FRA Arrival Connecting Point D = FRA Departure Connecting Point I = FRA Intermediate Point	Remark/Usage
BAKLI	545500.0N 0133338.8E	Z400, ESMS STAR	(EXAI)	(A): EKCH, EKRK, ESMS (I): Only AVBL as Intermediate for traffic from/to ADs in DK-SE FAB
BALOX	550208N 0132537E	L983, M736	(I)	
BAMIP	655647N 0154142E	P600, T63	(I)	
BAZOQ	590100N 0161800E	-	(I)	Re-routing point
BEDLA	593744N 0161330E	N623, N866, P609	(I)	
BEDOS	572135N 0150750E	N851	(IAD)	(A): ESCF, ESKN, ESSL, ESSP (D): ESMT
BEGDO	655414N 0204253E	T320	(I)	
BESLA	655127.1N 0221836.9E	M607, M852, T81, ESPA STAR/SID	(I)	
BEXUL	653534N 0240914E	-	(I)	
BIKRU	545500N 0141000E	N33, Z493	(EXDI)	(D): EKCH, EKRK (I): Only AVBL as Intermediate for traffic from/to ADs in DK-SE FAB
BODRI	622454N 0194927E	N15, T31	(I)	
BOMGU	585424N 0104307E	Y440, Z132	(I)	
BUGAX	610000N 0125357E	M82, T89	(I)	
DEGAL	603820N 0175724E	L870, T314, Y96	(IA)	(A): ESSA, ESSB
DEGAV	574341N 0122025E	N15, N873	(I)	
DEGED	620601N 0164844E	M852, T89, ESNN STAR/SID	(I)	
DEKIK	564552N 0141828E	N33, N851, Z702	(I)	
DEPEX	591131N 0150121E	N866, Y42	(I)	
DEREX	574022N 0201239E	P739, P863	(I)	
DETNA	573515.4N 0110408.6E	N866, ESGG SID	(ID)	(D): ESGG For usage en-route, see AIP Denmark
DETNI	545500N 0142039E	P12	(EXI)	(I): Only AVBL as Intermediate for traffic from/to ADs in DK-SE FAB
DETSO	583600N 0141552E	L734, N873, Y130	(IAD)	(A): ESCF, ESKN, ESSA, ESSB, ESSL, ESSP (D): ESGG
DETUS	550122.1N 0125958.8E	L983, ESMS STAR	(I)	
DEXOP	665626N 0191619E	M745	(I)	
DIBVA	623752N 0142655E	L199, T400	(I)	
DIGOX	590656N 0193610E	M92	(ID)	(D): ESSB
DIKVI	611744N 0142147E	L199, P850	(I)	
DIPEB	561057N 0175835E	M864	(I)	

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DIRAV	634923N 0133907E	T64, T65	(I)	
DISGO	550905.7N 0124400.8E	T508, ESMS SID	(I)	
DISRU	583550N 0174401E	M996	(I)	
DIWDE	582800N 0172800E	-	(I)	Re-routing point
DODAM	600240N 0191806E	N873	(I)	
DOPUD	680829N 0231918E	M745	(I)	
EBURI	594800N 0143938E	N623, Z166	(IA)	(A): ENGM, ENRY, ENTO
EDAXA	624654N 0193756E	M607, T89	(I)	
EGAGO	614033N 0121300E	N150, T311, T400	(I)	
EKMIK	651506N 0234339E	T320	(I)	
EKNAG	635047N 0183927E	-	(I)	Re-routing point
EKRAL	554636.4N 0135746.2E	L990, P605, ESMS STAR/SID	(I)	
ELBOG	650945.6N 0213053.4E	M607, M82, ESPA STAR	(I)	
ELBUX	573318.6N 0115836.7E	M852, N607, N873, ESGG STAR	(I)	
ELPAX	580544N 0151624E	N872, Z703	(ID)	(D): ESSA, ESSB
ELRID	593409N 0182718E	N850, N872, Y360	(I)	
ELTOK	594928.0N 0165923.7E	M996, P607, T317, Z15, Z183, ESSA STAR	(IA)	(A): ESSA
ELVAV	575758N 0105735E	-	(I)	Re-routing point
ELVIX	552443N 0140539E	L621, L975, L996, M611, N195, N33, Z330	(IA)	(A): EKCH, EKRK
EMLET	674500N 0214154E	M745	(I)	
ENOXI	665432N 0213933E	-	(I)	
ERNOV	561007.9N 0123425.6E	L621, L996, N15, N872, T402, ESMS STAR/SID	(ID)	(D): ESGG
ESEBA	600046N 0122332E	N623, Z259	(I)	
ETIPU	640802N 0170122E	-	(I)	Re-routing point
ETOMI	614257N 0152159E	P850, T89	(I)	
ETPIG	561115N 0141254E	N33, P605	(ID)	(D): ESMS
ETRUS	552824N 0153805E	L87, L987, M864, P12	(ID)	(D): EKCH, EKRK
ETSON	645720N 0174230E	-	(I)	
EVBAS	560844N 0122840E	Z702	(I)	
EVLAN	601508N 0190643E	L24, Y96	(I)	
EVONA	570954N 0195529E	M611, P862	(I)	

Name code designator	Coordinates	ATS route or other route	FRA relevance E = FRA Horizontal Entry Point X = FRA Horizontal Exit Point A = FRA Arrival Connecting Point D = FRA Departure Connecting Point I = FRA Intermediate Point	Remark/Usage
FOXSA	615451.4N 0175629.3E	T316, ESNN SID	(I)	
GAJPA	630013.5N 0180104.9E	M852, P850, T70, ESNN STAR/SID	(I)	
GELDA	565217N 0193400E	M996, N5	(I)	
GELMA	570223N 0141213E	N850	(IA)	(A): ESMK
GETPA	590209N 0115532E	L727, L996	(I)	
GEVRU	604434N 0141947E	L199, M996, N133, Z371	(I)	
GIGOD	570156N 0194301E	-	(I)	Re-routing point
GIKAV	640204N 0134738E	L80, L870, T65	(I)	
GILEN	680139N 0170604E	P600, T65	(I)	
GIMLO	584225.2N 0155036.8E	L734, ESKN STAR	(I)	
GIROR	550336N 0142424E	L983, M864	(I)	
GISON	555554N 0174206E	M990	(EX)	
GIXUN	572516N 0115209E	L997, M852	(I)	
GOKEP	614509N 0142330E	L199, M82	(I)	
GORAX	554822N 0130226E	N851	(I)	
GORPI	545500N 0153918E	N746	(EX)	
GOSDI	645918.6N 0212154.2E	M607, ESPA STAR	(I)	
GOSOT	544820N 0145128E	L996	(EX)	
GOTAL	581438.0N 0182743.0E	T316, ESSV STAR	(I)	
GURLI	582528N 0103358E	-	(I)	Re-routing point
HUMBE	673209N 0223657E	-	(I)	
IBGAX	594320N 0152345E	L199, N623	(ID)	(D): ESSA, ESSB
IBREK	562330N 0121356E	-	(I)	
IDPAL	562738N 0141841E	Q44	(ID)	(D): EKCH, EKRK
IFCAG	583400N 0171500E	-	(I)	Re-routing point
INGIS	583640.2N 0172755.4E	M607, ESKN STAR/SID	(I)	
INRER	560309.7N 0124849.2E	L621, L996, M44, ESTL SID	(I)	
INSUK	582127N 0202852E	N623	(I)	
INVOL	573916N 0111317E	N866	(I)	
IRGAL	624950N 0200039E	T89	(I)	
ITVAV	664430N 0195658E	T317	(I)	
KEKOV	545658N 0142628E	N195, Z491	(I)	
KELAS	602807N 0191033E	L87	(IA)	(A): ESSA, ESSB

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KELIN	581436.9N 0120315.0E	L996, Y43, ESGG STAR	(ID)	(D): ENGM, ENRY, ENTO
KEMAX	560735N 0132714E	N851, Q44, T408, Z490	(I)	
KETEL	641156.8N 0211150.0E	T401, T70, T81, ESNU STAR	(I)	
KOGAV	600452.0N 0171346.6E	L77, Z11, Z255, ESSA SID	(ID)	(D): ESSA
KOKAK	552929N 0124254E	L975	(I)	
KOLJA	560000N 0164853E	M611, M864, M990, N624, N746, P739	(I)	
KOLOB	544923N 0145639E	L617, N195	(EX)	
KOPIM	560802N 0122954E	N872	(I)	
KORET	584839N 0115405E	L727, L996	(I)	
KOSKA	591058N 0204034E	L990, N624	(I)	
KOTAM	560758N 0145012E	L990, P863, Z330, Z490	(IAD)	(AD): EKCH, EKRK, ESMS, ESTL
KOXIM	582401N 0154408E	N872, ESKN SID	(I)	
KULUD	561538N 0121959E	L621, Z703	(IAD)	(A): ESMS (D): ESMS, ESTL
LABAN	581009.8N 0131739.5E	N873, Y430, ESGG SID	(I)	
LAGIS	563317.8N 0155613.2E	L990, ESMQ STAR/SID	(I)	
LALIL	574625N 0121038E	L617, L996, M852	(I)	
LAMOS	654817.0N 0215653.3E	T400	(I)	
LAMPI	633219N 0210212E	P854	(I)	
LAPIX	635421N 0202844E	M607, P854, T70	(I)	
LAPSI	585514N 0141820E	N866	(ID)	(D): ESSA, ESSB
LARMA	551628N 0163006E	M865, Q800, Y41	(EX)	
LASLI	565542N 0120042E	L997, N15	(ID)	(D): EKCH, EKRK, ESMS, ESTL
LATKU	583326N 0115813E	L727, L996, Z132	(IAD)	(A): ESGG (D): ENGM, ENRY, ENTO
LATVI	565301.0N 0163608.4E	L990, ESMQ STAR/SID	(I)	
LEBDA	552225N 0123743E	N851	(I)	
LEGPO	600246N 0142618E	L199, M852, Z183	(ID)	(D): ENGM, ENRY, ENTO
LENZO	631539.2N 0195908.0E	M607, ESNU STAR	(I)	
LIBSI	584352.6N 0161458.6E	N872, ESKN SID	(I)	
LIDNA	661952N 0152739E	T65	(I)	

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LILBI	551511N 0124058E	L990	(I)	
LINSA	594328N 0172442E	N873, P607	(I)	
LIVLI	671543N 0164848E	P600, T519	(I)	
LOBBI	571905.0N 0112953.0E	N873, ESGG STAR	(I)	
LOMLA	603526.5N 0131137.0E	Z15, ESKS SID	(I)	
LUKAX	574248.9N 0130854.2E	ESGG SID	(ID)	(D): ESGG
LUKIG	635855N 0181039E	T400, T401	(I)	
LUPET	593825N 0195235E	L77, Y360	(IA)	(A): ESSA, ESSB
LURAR	581906N 0145704E	N607	(IA)	(A): ESCF, ESKN, ESSL, ESSP
LUSID	545500N 0151746E	L621, L87	(EX)	
MAKUR	572547.0N 0112425.0E	N607, Z731, ESGG SID	(I)	
MALIV	550945.8N 0130212.7E	L987, M611, P605, P862, ESMS SID	(I)	
MAPEV	682335N 0215429E	-	(I)	
MASEV	601040N 0123205E	L24, Z183	(ID)	(D): ENGM, ENRY, ENTO
MATEK	550059N 0124803E	L983	(I)	Re-routing point
MAVIP	625624N 0130456E	N133, N150, T65, Y96	(I)	
MAXUM	553940.5N 0133614.4E	L621, L996, M736, ESTL STAR/SID	(IA)	(A): ESTL
MIKNA	575425N 0155519E	N851	(IA)	(A): ESSA, ESSB
MILNU	595837N 0151801E	N15, Z183	(I)	
MIMKI	665609N 0160526E	T320	(I)	
MISBI	555355N 0124021E	N850	(I)	
MISMA	563828.5N 0131210.1E	N872, ESTA STAR	(I)	
MISMO	661029N 0234910E	M607, M82	(I)	
MOGLU	590730N 0114609E	L727	(I)	
MOKNI	573847N 0150405E	N850	(I)	
MOSAT	550231N 0124717E	P605	(I)	
MOSIN	553310N 0124753E	N851	(I)	
MOTIG	635548N 0191604E	M852, N3	(I)	
MOVIS	571309.7N 0162050.1E	L87, ESMQ STAR/SID	(I)	
MOXAM	583152.9N 0131850.1E	L734, N866, ESGG STAR	(IA)	(A): ESGG
NAFFI	670418N 0231239E	-	(I)	
NEBET	670205N 0234301E	T400	(I)	

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NEBSI	585418N 0205629E	L734, L870, M92, P607	(IA)	(A): ESSA, ESSB
NEBUR	653328N 0143030E	-	(I)	
NEFYN	573502N 0152703E	N851	(I)	
NEGIL	581504.8N 0123731.2E	L727, M852, N15, N866, ESGG SID	(I)	
NEKET	581816N 0203443E	N616, N623	(I)	
NEKLA	590000.0N 0191549.1E	N623, P156, Z540, ESSA SID	(IAD)	(A):ESSB (D):ESSA, ESSB
NEMBA	570931N 0142214E	N33, N850	(IAD)	(A): ESMS (D): ESCF, ESKN, ESSL, ESSP
NEPVA	585544N 0183359E	T316	(ID)	(D): ESSA, ESSB
NEREN	583740N 0204618E	N197, Q44	(I)	
NETAV	635947N 0141437E	L199, N150, P600, T64	(I)	
NEXIL	562020.9N 0134359.2E	M736, N851, ESMS SID, ESTL STAR/SID	(IA)	(A): ESTL
NIBNO	594424N 0122132E	Z166	(IAD)	(A): ENRY, ENTO (D): ENGM, ENRY, ENTO
NIKEG	584128N 0181815E	L199	(I)	
NILEN	564344.3N 0131918.6E	L617, N872, ESTA STAR	(IA)	(A): ESGG
NILUG	584857N 0175305E	L199, L734, Z226, Z227, Z228, Z229, ESKN STAR, ESSA STAR	(I)	
NINTA	561344N 0181708E	M864	(EX)	
NISIX	591907N 0202554E	M851	(ID)	(D): ESSA, ESSB
NISLO	552857N 0125305E	L975	(I)	
NITMU	643258N 0174559E	-	(I)	
NOGBO	642745N 0140650E	T519, T65, Z108	(I)	
NOSLI	590422.0N 0171529.2E	N850, T31, ESSA SID, ESSB SID	(I)	
NOVRI	683242N 0203944E	N150, T317	(I)	
NUGPU	584649N 0172904E	M607	(I)	
NUGTA	642902N 0144849E	N150	(I)	
NUPVI	553147N 0164715E	-	(I)	Re-routing point
ODARU	550545N 0124541E	M611	(I)	
ODHAF	654601N 0225244E	-	(I)	
ODIBI	585707N 0185232E	N5, T365	(ID)	(D): ESSA, ESSB
OGIRO	584614N 0130740E	M852	(IAD)	(AD): ESGG

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OGLAV	684959N 0211022E	N150	(I)	
OGLOB	595559N 0192744E	-	(I)	
OGRIN	674358N 0191809E	N150	(I)	
OKAGA	545500N 0134549E	-	(EXI)	(I): Only AVBL as Intermediate for traffic from/to ADs in DK-SE FAB
OKSAT	591946N 0115726E	L996, P609	(IA)	(A): ENRY, ENTO
OLANU	572808N 0174307E	P606	(I)	
OLGUV	622603N 0121053E	Z155	(I)	
OSKIR	654015N 0193656E	T317	(I)	
OSKOK	621911N 0121544E	T65, Z255, Z371	(I)	
OSLAV	624334.9N 0151059.9E	L870, ESNZ STAR/SID	(I)	
OSTAX	660307N 0164853E	N150	(I)	
OTMAB	600700N 0145000E	-	(I)	
OTVEB	562930N 0141610E	T408	(ID)	(D): EKCH, EKRK
OVDAL	622343N 0131205E	L77, N133, P600, T311, Z11	(I)	
OXOTI	624508N 0133124E	Y96, Z265	(I)	
PELIT	591202N 0154116E	N873, Y42	(I)	
PELOX	570416.8N 0132804.8E	ESMT STAR	(IA)	(A): ESMT
PELUP	581643.8N 0162840.5E	L87, N851, Z226, ESKN STAR	(I)	
PEMAB	681911N 0201625E	N150, T519	(I)	
PENAX	663810N 0154034E	-	(I)	
PENOR	553819N 0170941E	L727, L987, M607, T316, Y44	(EX)	
PERAX	600434N 0162253E	M996	(ID)	(D): ESSB
PERKE	664407N 0235332E	M852	(I)	
PETEV	591225.8N 0170043.5E	L87, N872, ESSB SID, ESSA SID	(I)	
POBEL	682952N 0190555E	-	(I)	Re-routing point
POKAS	595853N 0192333E	-	(I)	
POKEN	544911N 0143351E	Q800, Z212, Z491	(EX)	
RASEL	580141N 0202453E	L199, P156, Y130, Y40	(I)	
RASEN	634843N 0190551E	M82, M852, T317, T404	(I)	
RASMU	564530.2N 0134855.0E	M736, N850, ESMS STAR	(IAD)	(A): ESMS (D): EKCH, EKRK, ESMS
REGMA	590632N 0112058E	L997	(I)	

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REKMI	651059N 0192821E	T317	(I)	
REKMO	555922N 0124724E	N850	(I)	
REMSA	572849N 0173520E	-	(I)	Re-routing point
REPKU	584821N 0103629E	L617, Y43	(ID)	(D): ESGG
RESNA	602201.0N 0180129.4E	M607, P609, T314, T317, ESSA SID, ESSB SID	(ID)	(D): ESSA, ESSB
RIKPA	614947N 0185800E	M607, Z155	(I)	
RIKUM	595815N 0192429E	N851	(ID)	(D): ESSA, ESSB
RISEM	651308.6N 0211431.6E	M852, T400, ESPA STAR/SID	(I)	
RISMA	570231.0N 0115845.0E	L997, N15, ESGG STAR	(IA)	(A): ESGG
RIXEM	684728N 0201929E	-	(I)	
ROGED	603046N 0123624E	P607, P850	(I)	
ROGMI	581137.6N 0180006.3E	M996, Z229, ESSV STAR/SID	(IAD)	(A): ESSA, ESSB (D): ESSB
ROSMO	634159N 0204739E	P854, T81	(I)	
ROVPA	604402N 0122344E	M82, Z15, Z418	(I)	
ROXEN	563352N 0140200E	N851, Z451	(ID)	(D): EKCH, EKRK, ESMS
ROXUB	551547N 0140448E	M743	(I)	
RUMAR	550201N 0160415E	L983	(EX)	
RUNGA	594459N 0194327E	N872	(IA)	(A): ESSA, ESSB
SABAK	581035.6N 0113833.8E	L617, L997, Y41, Y440, Y44, Z731, ESGG SID	(IAD)	(AD): ENGM, ENRY, ENTO
SALLO	545500.0N 0132310.3E	M44, M736, ESMS SID	(EXDI)	(D): EKCH, EKRK, ESMS (I): Only AVBL as Intermediate for traffic from/to ADs in DK-SE FAB
SEPJA	672700N 0211300E	-	(I)	
SIMEG	551500N 0133004E	L987, M736, Z491, Z493	(I)	
SIPRI	605044N 0184506E	N5, P609, T316, T318, T31	(IA)	(A): ESSA, ESSB
SOLKA	631951N 0120309E	N133, P855, T401, T64	(I)	
SOPLI	641403.5N 0204425.8E	M607, ESNU SID	(I)	
SOVEV	671248N 0222116E	-	(I)	
SUTEV	643314N 0224416E	P998, T70	(I)	
SUVAR	610905N 0124310E	M996	(I)	
TABUT	593109N 0155501E	N866	(I)	

Name code designator	Coordinates	ATS route or other route	FRA relevance E = FRA Horizontal Entry Point X = FRA Horizontal Exit Point A = FRA Arrival Connecting Point D = FRA Departure Connecting Point I = FRA Intermediate Point	Remark/Usage
TEKVA	595905N 0124310E	N623, Z259	(I)	
TELMO	550316.6N 0140658.6E	L983, Z491, ESMS SID	(ID)	(D): EKCH, EKRK, ESMS
TEMLI	564041.5N 0152301.7E	Z330, ESDF STAR	(I)	
TESPO	562016N 0171343E	M607, N746	(I)	
TIDVU	552440.7N 0133327.1E	L975, M736, M743, P605, Z400, ESMS STAR/SID	(I)	
TIGBA	625614N 0120731E	Z11, Z265	(I)	
TIMOB	650411.4N 0210005.1E	M852, ESPA STAR	(I)	
TINKA	591218.7N 0161747.0E	Y42, Y430, ESSB STAR/SID	(I)	
TIPEL	671543N 0161948E	T65	(I)	
TIPIX	585416.9N 0163127.1E	N872, ESKN SID	(I)	
TIXOR	652013N 0151301E	N3, P600	(I)	
TOGMI	614543N 0193225E	L80, P855, Z155, Z265	(I)	
TOKSI	570920.1N 0135439.7E	N872, ESMT STAR	(IAD)	(A): EKCH, EKRK, ESMT, ESTA (D): ESCF, ESKN, ESSL, ESSP
TOMBU	591346.0N 0193404.2E	N616, P607, ESSA SID	(IAD)	(AD): ESSA
TONSA	583632.9N 0163112.9E	L87, N850, ESKN SID	(I)	
TOPLA	570809.1N 0122020.2E	L996, N195, ESGG SID	(IAD)	(A): EKCH, EKRK, ESMS (D): ESGG
TORVA	592445N 0161243E	N873	(I)	
TOVRI	594459.3N 0184600.6E	N851, ESSA SID, ESSB STAR/SID	(I)	
TUDGI	640849N 0184044E	N3, T400	(I)	
TUMGU	595328N 0120112E	L996	(I)	
TUSNI	591946N 0164903E	-	(I)	Re-routing point
TUVLU	674126N 0232943E	-	(I)	
UMIXA	570924N 0134302E	Z703	(ID)	(D): ESCF, ESKN, ESSL, ESSP
UMLAX	610000N 0170411E	N15	(I)	
UMSAK	612528N 0142301E	L77, Z255	(I)	
UMSOM	631955N 0200221E	M607	(I)	
UMTON	583242N 0142020E	Y430	(IAD)	(A): ESSB (D): ESGG
UNGAV	545500N 0135941E	M864	(EXI)	(I): Only AVBL as Intermediate for traffic from/to ADs in DK-SE FAB

Name code designator	Coordinates	ATS route or other route	FRA relevance E = FRA Horizontal Entry Point X = FRA Horizontal Exit Point A = FRA Arrival Connecting Point D = FRA Departure Connecting Point I = FRA Intermediate Point	Remark/Usage
UNKAS	645309N 0201910E	T400, T403	(I)	
UPCUM	664448N 0211921E	-	(I)	Re-routing point
UPEVA	663714N 0173644E	N150, T320	(I)	
UPMAD	660100N 0175700E	-	(I)	Re-routing point
USIKI	661527N 0152342E	T63, T65	(I)	
VADIN	570816.0N 0113838.0E	M852, ESGG SID	(ID)	(D): ESGG
VAGAS	672057.2N 0200907.7E	M745, T317, ESNQ STAR/SID	(I)	
VALAK	632507N 0203427E	T81	(I)	
VATEX	591903N 0114914E	P609, Z166	(I)	
VEDAR	563154N 0120725E	L997	(ID)	(D): EKCH, EKRK
VEDEN	563154N 0185236E	-	(I)	
VEPIP	565513N 0143111E	N851	(I)	
VERAG	650731.9N 0215913.5E	T403, T404, T81, ESPA SID	(I)	
VESER	651120N 0154047E	N150, N3	(I)	
VIBAR	573441N 0162326E	L87, Z227, Z330	(IAD)	(A): ESSA, ESSB (D): ESKN, ESSA, ESSB
XELVI	612959N 0124005E	P600, T70	(I)	
XENTA	584129N 0112858E	L997, Y43, Z132	(IAD)	(A): ENGM, ENRY, ENTO (D): ESGG
XIDMI	594304N 0115612E	-	(I)	
XILAN	593933.5N 0190433.8E	L77, L870, N616, N872, Y40, ESSA STAR, ESSB STAR	(I)	
XONTU	655626N 0240436E	T404	(I)	
ZIPCO	615214.4N 0173757.2E	T314, ESNN STAR	(I)	

2.4 Restriktionsområden utfärdade av Transportstyrelsen

2.4.1 Inom områdena ES R102, R105, R106, R107, R108, R109, R110, R117 och R124 upprättade av hänsyn till allmän ordning och säkerhet, gäller flygförbud. Flygning får dock äga rum med svenska militära luftfartyg och med svenska luftfartyg som används av Försvarsmakten, Polismyndigheten, Säkerhetspolisen, Kustbevakningen, Sjöfartsverket, LFV, Transportstyrelsen, Tullverket, Lantmäteriet, Sveriges geologiska undersökning, SMHI eller Affärsverket svenska kraftnät, ambulanstransport med hög medicinsk prioritet eller med luftfartyg när de används i räddningsinsatser enligt bestämmelserna i lagen om skydd mot olyckor (2003:778).

Sjuktransport medges tillstånd att inom ES R102 genomföra flygning till och från Karolinska universitetssjukhuset.

Sjuktransport medges tillstånd att inom ES R110 genomföra flygning till och från Huddinge sjukhus.

Tillstånd för flygning i områdena kan medges av Transportstyrelsen.

2.4.2 Inom områdena ES R47, R53, R57, R61 R114, R115 och R116 upprättade av hänsyn till friluftsliv eller natur- och miljövård gäller flygförbud.

Flygning får dock äga rum med svenska luftfartyg som används av Försvarsmakten vid skarpa insatser, Polismyndigheten, Säkerhetspolisen, Kustbevakningen, Sjöfartsverket, Lantmäteriet, Tullverket, Länsstyrelsen, ambulanstransport med hög medicinsk prioritet, eller med luftfartyg när de används i räddningsinsatser enligt bestämmelserna i lagen om skydd mot olyckor (2003:778).

Flygning inom ES R47, R53, R57 och R61 får även äga rum med luftfartyg som används för renskötsel enligt Rennäringslag (1971:437).

Flygning inom ES R47, R53 och R57 får även äga rum med svenska luftfartyg som används av Laponiatjuottjudus/Laponiaförvaltningen.

Flygning inom ES R53 får även äga rum med svenska luftfartyg som används av Affärsverket svenska kraftnät vid akuta behov av underhåll eller inspektion.

Tillstånd för flygning i områdena kan medges av Transportstyrelsen.

2.5 Flight Plan Buffer Zone (FBZ)

FBZ är etablerade enbart med hänsyn till färdplanering. Det är tillåtet att färdplanera fram till gränsen av FBZ när dessa är aktiva. I rutt-beskrivningen i fält 15 ska hänsyn tas till den nominella storcirkeln mellan två punkter i färdplanen. När ett område är aktiverat ska FBZ koordinater användas för IFR färdplanering.

2.6 Förteckning över restriktionsområden

2.4 Restricted areas established by the Swedish Transport Agency

2.4.1 Flight within areas ES R102, R105, R106, R107, R108, R109, R110, R117 and R124 established with regard to common order and security, is prohibited. However, flight may be conducted if carried out by Swedish military aircraft or by Swedish aircraft operated by Swedish Armed Forces, local Police Department, Swedish Security Service, Swedish Coast Guard, Swedish Maritime Administration, LFV, Swedish Transport Agency, Swedish Customs Administration, National Land Survey Office, Geological Survey of Sweden, Swedish Meteorological and Hydrological Institute or Affärsverket Svenska Kraftnät, ambulance transport with high medical priority or by aircraft engaged in rescue operations in accordance with Civil Protection Act (2003:778).

Ambulance flights are permitted within ES R102 when operating to/from Karolinska University Hospital.

Ambulance flights are permitted within ES R110 when operating to/from Huddinge hospital.

Permission for flight in the areas may be granted by the Swedish Transport Agency.

2.4.2 Flight within areas ES R47, R53, R57, R61, R114, R115 and R116 established with regard to outdoor recreation or nature and environmental protection, is prohibited. However, flight may be conducted if carried out by Swedish aircraft operated by Swedish Armed Forces on mission, local Police Department, Swedish Security Service, Swedish Coast Guard, Swedish Maritime Administration, National Land Survey Office, Swedish Customs Administration, County Administrative Board, ambulance transport with high medical priority, or by aircraft engaged in rescue operations in accordance with Civil Protection Act (2003:778).

Flights within ES R47, R53, R57 and R61 are permitted with aircraft used for reindeer husbandry according to the Reindeer Husbandry Act (1971:437).

Flights within ES R47, R53 and R57 are permitted with Swedish aircraft operated by Laponiatjuottjudus/Laponia World Heritage administration.

Flights within ES R53 are permitted with Swedish aircraft used by Affärsverket svenska kraftnät in the event of urgent maintenance or inspection.

Permission for flight in the areas may be granted by the Swedish Transport Agency.

2.5 Flight Plan Buffer Zone (FBZ)

FBZ has been established for IFR flight planning purposes only. Flight plans can be filed up to the boundary of the FBZ when active. The route described in item 15 shall consider the nominal track between two points according to the great circle. When an area is activated use FBZ coordinates for IFR flight planning.

2.6 List of restricted areas

Följande information ges i tabellen nedan för restriktionsområden:

- Identifiering och namn
- Geografiska koordinater för laterala gränser
- Övre och nedre gränser – vertikal utsträckning
- Anmärkningar, inklusive typ av verksamhet, tillståndsgivande enhet och aktivitetstider

The following information is presented in the restricted areas table below:

- Identification and name
- Geographical coordinates of the lateral limits
- Vertical limits
- Remarks, including nature of hazard, permission unit and time of activity

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R01 ESRANGE (KIRUNA)	690336N 0203255E - Swedish/Finnish border southward to 683156N 0215935E - 681745N 0214612E - 675924N 0212754E - 674724N 0211613E - 674724N 0205443E - 675924N 0204843E - 682121N 0195516E - Swedish/Norwegian border northward to 690336N 0203255E	UNL — GND	<p>Raketskjutning, ballong uppsläpp, RPAS flygning och nedsläpp av nyttolast. Tillstånd kan erhållas från STOCKHOLM ACC eller KIRUNA ATS. För flygning i luftrumsklass G ring ESRANGE TEL +46 (0)980 720 00. För alla flygningar skall en färdplan lämnas in till KIRUNA ATS minst 45 MIN före inträde. Färdplanen ska innehålla information angående den beräknade tiden inom området. När det krävs av flygtrafikledningen skall radiokontakt upprättas. Information om uppskjutning kan erhållas från KIRUNA ATS eller STOCKHOLM ACC.</p> <p>Rocket firing, balloon ascends, RPAS flights and cargo drops. Permission obtainable from STOCKHOLM ACC or KIRUNA ATS. For flight in airspace Class G call ESRANGE TEL +46 (0)980 720 00. For all flights a FPL shall be submitted to reach KIRUNA ATS at least 45 MIN before entry. The FPL shall contain information regarding the estimated time within the area. When required by the authorizing unit radio contact shall be established. Information regarding launching may be obtained from KIRUNA ATS or STOCKHOLM ACC</p>
ES R01A ESRANGE (KIRUNA)	675924N 0204843E - 675924N 0212754E - 674724N 0211613E - 674724N 0205443E - 675924N 0204843E	UNL — GND	<p>Raketskjutning, ballong uppsläpp, RPAS flygning och nedsläpp av nyttolast. Tillstånd kan erhållas från STOCKHOLM ACC eller KIRUNA ATS. För flygning i luftrumsklass G ring ESRANGE TEL +46 (0)980 720 00. För alla flygningar skall en färdplan lämnas in till KIRUNA ATS minst 45 MIN före inträde. Färdplanen ska innehålla information angående den beräknade tiden inom området. När det krävs av flygtrafikledningen skall radiokontakt upprättas.</p> <p>Rocket firing, balloon ascends, RPAS flights and cargo drops. Permission obtainable from STOCKHOLM ACC or KIRUNA ATS. For flight in airspace Class G call ESRANGE TEL +46 (0)980 720 00. For all flights a FPL shall be submitted to reach KIRUNA ATS at least 45 MIN before entry. The FPL shall contain information regarding the estimated time within the area. When required by the authorizing unit radio contact shall be established.</p>

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R02 VIDSEL	665454N 0183445E - 663555N 0195144E - 660755N 0202244E - 655155N 0200944E - 655155N 0192645E - 663055N 0175246E - 665454N 0183445E	UNL — GND	Skjutning, sprängning, bombning/CAS, UAS, test och utvärderingsflyg och målbogsering. Tillstånd kan erhållas från STOCKHOLM ACC eller VIDSEL ATS. Firing, blasting, bombing/CAS, UAS, test and evaluation flights and target towing. Permission obtainable from STOCKHOLM ACC or VIDSEL ATS.
ES R02A VIDSEL	665454N 0183445E - 664527N 0191306E - 660955N 0201751E - 660939N 0202051E - 660755N 0202244E - 660723N 0202218E - 660447N 0202009E - 655523N 0191839E - 663055N 0175246E - 665454N 0183445E	UNL — GND	Skjutning, sprängning, bombning/CAS, UAS, test och utvärderingsflyg och målbogsering. Tillstånd kan erhållas från STOCKHOLM ACC eller VIDSEL ATS. Firing, blasting, bombing/CAS, UAS, test and evaluation flights and target towing. Permission obtainable from STOCKHOLM ACC or VIDSEL ATS.
ES R02B VIDSEL	660447N 0202009E - 655155N 0200944E - 655155N 0192645E - 655523N 0191839E - 660447N 0202009E	UNL — GND	Skjutning, sprängning, bombning/CAS, UAS, test och utvärderingsflyg och målbogsering. Tillstånd kan erhållas från STOCKHOLM ACC eller VIDSEL ATS. Firing, blasting, bombing/CAS, UAS, test and evaluation flights and target towing. Permission obtainable from STOCKHOLM ACC or VIDSEL ATS.
ES R02C VIDSEL	664527N 0191306E - 663555N 0195144E - 660939N 0202051E - 660955N 0201751E - 664527N 0191306E	UNL — GND	Skjutning, sprängning, bombning/CAS, UAS, test och utvärderingsflyg och målbogsering. Tillstånd kan erhållas från STOCKHOLM ACC eller VIDSEL ATS. Firing, blasting, bombing/CAS, UAS, test and evaluation flights and target towing. Permission obtainable from STOCKHOLM ACC or VIDSEL ATS.
ES R03 LOWER PART OF RIVER KALIX	663555N 0224443E - 663355N 0231542E - 655755N 0234342E - 654655N 0222943E - 655055N 0222643E - 661955N 0224943E - 663555N 0224443E	UNL — GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ES R04 BODEN	660555N 0212444E - 655225N 0220743E - 654655N 0220943E - 654255N 0214843E - 654955N 0214313E - 654955N 0213244E - 655155N 0212444E - 660055N 0211044E - 660555N 0212444E	UNL — GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R05 BODEN SÖDRA	654835N 0213616E - 654725N 0213944E - 654525N 0214144E - 654355N 0213614E - 653955N 0213314E - 653825N 0211844E - 653955N 0211244E - 654525N 0211844E - 654555N 0213044E - 654835N 0213616E	32000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller KALLAX ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or KALLAX ATS.
ES R05A BODEN SÖDRA	654835N 0213616E - 654725N 0213944E - 654525N 0214144E - 654355N 0213614E - 653825N 0211844E - 653955N 0211244E - 654525N 0211844E - 654555N 0213044E - 654835N 0213616E	32000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller KALLAX ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or KALLAX ATS.
ES R05B BODEN SÖDRA	654355N 0213614E - 653955N 0213314E - 653825N 0211844E - 654355N 0213614E	32000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet upp till 2000 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC eller KALLAX ATS. Military activities including aviation operations up to 2000 ft AMSL. Permission obtainable from STOCKHOLM ACC or KALLAX ATS.
ES R07 UMEÅ	635646N 0201815E - 635301N 0201915E - 635137N 0201813E - 635018N 0201621E - 635012N 0201451E - 635148N 0201139E - 635618N 0200944E - 635646N 0201815E	11000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet med UAS upp till 400 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC eller UMEÅ ATS. Military activities including aviation operations with UAS up to 400 ft AMSL. Permission obtainable from STOCKHOLM ACC or UMEÅ ATS.
ES R08 DAGSÅDALEN	631556N 0144408E - 631426N 0144618E - 631208N 0144048E - 631342N 0143918E - 631531N 0144138E - 631556N 0144408E	28500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet med UAS upp till 1600 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC eller ÖSTERSUND ATS. Military activities including aviation operations with UAS up to 1600 ft AMSL. Permission obtainable from STOCKHOLM ACC or ÖSTERSUND ATS.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R09 SALUBÖLE	632659N 0191528E - 632526N 0192603E - clockwise along an arc centred on 632656N 0191546E and with radius 4.9 NM - 632212N 0191803E - 632645N 0191532E - 632659N 0191528E	20000 ft AMSL — GND	Skjutning. Tillstånd kan erhållas från STOCKHOLM ACC eller ÖRNSKÖLDSDVIK ATS. Firing. Permission obtainable from STOCKHOLM ACC or ÖRNSKÖLDSDVIK ATS.
ES R10 TJÄRNMYREN	630946N 0171847E - 630656N 0172447E - 630556N 0171347E - 630756N 0171437E - 630946N 0171847E	11500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ES R11 MOUTH OF ÅNGERMANÅLVEN	625226N 0180446E - 624226N 0182346E - 623826N 0181746E - 623826N 0175747E - 624956N 0180147E - 625226N 0180446E	UNL — GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ES R13 ÄLVDALEN	613926N 0133553E - 613719N 0135841E - 613238N 0141232E - 612353N 0140824E - 611622N 0134606E - 611948N 0133511E - 613158N 0132126E - 613627N 0132746E - 613926N 0133553E	35500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ES R14 ARCHIPELAGO OF ÖREGRUND	602157N 0183617E - 602157N 0185946E - 600727N 0185947E - 600727N 0184647E - 601057N 0183717E - 602157N 0183617E	UNL — GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ES R15A VÄDDÖ	600816N 0185039E - clockwise along an arc centred on 595632N 0185332E and with radius 12 NM - 595038N 0191356E - 595632N 0185332E - 600816N 0185039E	40500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ES R15B VÄDDÖ	601257N 0184347E - 600816N 0185039E - 595632N 0185332E - 595038N 0191356E - 595158N 0184747E - 600357N 0183847E - 601257N 0184347E	4500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R16 KUNGSÄNGEN	593604N 0174158E - 593604N 0174204E - 593603N 0174218E - 593549N 0174251E - 593532N 0174404E - 593539N 0174511E - 593524N 0174610E - 593452N 0174713E - 593448N 0174717E - 593433N 0174732E - 593419N 0174733E - 593359N 0174750E - 593354N 0174759E - 593344N 0174807E - 593316N 0174815E - 593304N 0174816E - 593300N 0174813E - 593201N 0174602E - 593254N 0174400E - 593343N 0174208E - 593407N 0174112E - 593524N 0174035E - 593604N 0174158E	1600 ft AMSL — GND	Militär verksamhet ej flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller ARLANDA ATS. Military activities no aviation operations. Permission obtainable from STOCKHOLM ACC or ARLANDA ATS.
ES R16A KUNGSÄNGEN	593539N 0174511E - 593524N 0174610E - 593452N 0174713E - 593448N 0174717E - 593532N 0174404E - 593539N 0174511E	1600 ft AMSL — GND	Militär verksamhet ej flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller ARLANDA ATS. Military activities no aviation operations. Permission obtainable from STOCKHOLM ACC or ARLANDA ATS.
ES R16B KUNGSÄNGEN	593604N 0174158E - 593604N 0174204E - 593603N 0174218E - 593549N 0174251E - 593532N 0174404E - 593448N 0174717E - 593433N 0174732E - 593419N 0174733E - 593359N 0174750E - 593254N 0174400E - 593343N 0174208E - 593407N 0174112E - 593524N 0174035E - 593604N 0174158E	1600 ft AMSL — GND	Militär verksamhet ej flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller ARLANDA ATS. Military activities no aviation operations. Permission obtainable from STOCKHOLM ACC or ARLANDA ATS.
ES R16C KUNGSÄNGEN	593359N 0174750E - 593354N 0174759E - 593344N 0174807E - 593316N 0174815E - 593304N 0174816E - 593300N 0174813E - 593201N 0174602E - 593254N 0174400E - 593359N 0174750E	1600 ft AMSL — GND	Militär verksamhet ej flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller ARLANDA ATS. Military activities no aviation operations. Permission obtainable from STOCKHOLM ACC or ARLANDA ATS.
ES R18 BOFORS, VILLINGSBERG	592853N 0150006E - 592734N 0150051E - 592418N 0145925E - 592106N 0145757E - 591741N 0145458E - 591512N 0144952E - 591335N 0143935E - 591704N 0143449E - 591937N 0143449E - 592050N 0143449E - 592352N 0143449E - 592838N 0145302E - 592853N 0150006E	UNL — GND	Skjutning, sprängning, UAS, bombning/CAS, test- och utvärderingsflyg, målbogsering och släpp av nyttolast. Tillstånd kan erhållas från STOCKHOLM ACC eller ÖREBRO ATS. Firing, blasting, UAS, bombing/CAS, test and evaluation flights, target towing and air drop. Permission obtainable from STOCKHOLM ACC or ÖREBRO ATS.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R18A BOFORS, VILLINGSBERG	592634N 0145413E - 592418N 0145925E - 592106N 0145757E - 591741N 0145458E - 591512N 0144952E - 591635N 0144623E - 591656N 0144133E - 591742N 0144036E - 591937N 0143449E - 592050N 0143449E - 592634N 0145413E	UNL — GND	Skjutning, sprängning, UAS, bombning/CAS, test- och utvärderingsflyg, målbogsering och släpp av nyttolast. Tillstånd kan erhållas från STOCKHOLM ACC eller ÖREBRO ATS. Firing, blasting, UAS, bombing/CAS, test and evaluation flights, target towing and air drop. Permission obtainable from STOCKHOLM ACC or ÖREBRO ATS.
ES R18B BOFORS, VILLINGSBERG	592853N 0150006E - 592734N 0150051E - 592418N 0145925E - 592634N 0145413E - 592050N 0143449E - 592352N 0143449E - 592838N 0145302E - 592853N 0150006E	UNL — GND	Skjutning, sprängning, UAS, bombning/CAS, test- och utvärderingsflyg, målbogsering och släpp av nyttolast. Tillstånd kan erhållas från STOCKHOLM ACC eller ÖREBRO ATS. Firing, blasting, UAS, bombing/CAS, test and evaluation flights, target towing and air drop. Permission obtainable from STOCKHOLM ACC or ÖREBRO ATS.
ES R18C BOFORS, VILLINGSBERG	591937N 0143449E - 591742N 0144036E - 591656N 0144133E - 591635N 0144623E - 591512N 0144952E - 591335N 0143935E - 591704N 0143449E - 591937N 0143449E	UNL — GND	Skjutning, sprängning, UAS, bombning/CAS, test- och utvärderingsflyg, målbogsering och släpp av nyttolast. Tillstånd kan erhållas från STOCKHOLM ACC eller ÖREBRO ATS. Firing, blasting, UAS, bombing/CAS, test and evaluation flights, target towing and air drop. Permission obtainable from STOCKHOLM ACC or ÖREBRO ATS.
ES R19 SANDHAMN	592458N 0190047E - 591758N 0192246E - 590728N 0190417E - 592228N 0183817E - 592458N 0190047E	UNL — GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ES R21 SOUTHERN PART OF THE STOCKHOLM ARCHIPELAGO	590958N 0180947E - 590958N 0183347E - 585958N 0185117E - 585358N 0183947E - 584358N 0181447E - 583958N 0175117E - 582343N 0174202E - 590458N 0175447E - 590958N 0180947E	UNL — GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ES R22A VÄTTERN	584508N 0144743E - 584448N 0145858E - 583232N 0145839E - 582835N 0144934E - 582814N 0144803E - 582733N 0144626E - 582542N 0144606E - 582541N 0144524E - 582343N 0144150E - 582230N 0143945E - 582143N 0143920E - 582049N 0143911E - 581611N 0141718E - 581656N 0141705E - 581727N 0141655E - 581758N 0141711E - 582842N 0141905E - 583931N 0142354E - 584508N 0144743E	21000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC, MALMÖ ACC eller KARLSBORG ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC, MALMÖ ACC or KARLSBORG ATS.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R22B VÄTTERN	582049N 0143911E - 581658N 0144219E - 581258N 0144219E - 581158N 0143304E - 580758N 0142749E - 581209N 0141358E - 581611N 0141718E - 582049N 0143911E	4500 ft AMSL ----- GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller KARLSBORG ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or KARLSBORG ATS.
ES R22C VÄTTERN	583021N 0143708E - 582921N 0144547E - 582711N 0144505E - 582508N 0144327E - 582318N 0144048E - 582106N 0143327E - 582053N 0142817E - 582636N 0142827E - 582835N 0142720E - 582853N 0142701E - 582939N 0142830E - 583020N 0143113E - 583021N 0143708E	18000 ft AMSL ----- GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller KARLSBORG ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or KARLSBORG ATS.
ES R22D VÄTTERN	584044N 0144632E - 583859N 0144846E - 583737N 0145007E - 583557N 0145102E - 583141N 0144943E - 582942N 0144605E - 583141N 0143322E - 583319N 0143114E - 583348N 0143036E - 583520N 0143025E - 583549N 0143108E - 583720N 0143512E - 583908N 0143812E - 584044N 0144632E	21000 ft AMSL ----- GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller KARLSBORG ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or KARLSBORG ATS.
ES R23 PRÄSTTOMTA	584054N 0152308E - 583835N 0152604E - 583550N 0152741E - 583429N 0152329E - 583513N 0151847E - 583858N 0151746E - 584054N 0152308E	18000 ft AMSL ----- GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från ÖSTGÖTA APP eller STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from ÖSTGÖTA APP or STOCKHOLM ACC.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R24 DROTTNINGHOLM	A circle with radius 2000 m centred on 591920N 0175230E	2000 ft AMSL ————— GND	Särskilda tillstånd från Transportstyrelsen krävs förutom för svenska luftfartyg som används av Försvarsmakten, Polismyndigheten, Säkerhetspolisen, Kustbevakningen, Sjöfartsverket, Lantmäteriet, ambulanstransport med hög medicinsk prioritet eller med luftfartyg när de används i räddningsinsatser enligt bestämmelserna i lagen om skydd mot olyckor (2003:778). Special permission by Swedish Transport Agency is required, except for Swedish aircraft operated by Swedish Armed Forces, Police Authority, Swedish Security Service, Swedish Coast Guard, Swedish Maritime Administration, National Land Survey Office, ambulance transport with high medical priority or by aircraft engaged in rescue operations in accordance with Civil Protection Act (2003:778).
ES R25 ÄLLEBERG	A circle with radius 5.4 NM centred on 580758N 0133550E (N point of the mountain Älleberg)	FL 195 ————— 3000 ft AMSL	Segelflygning i moln. Tillstånd att passera ges av MALMÖ ACC. Bestämmelser: Se ENR 5.1 punkt 2.3. Soaring in clouds. Permission to cross shall be obtained from MALMÖ ACC. Provisions: See ENR 5.1 para 2.3.
ES R26 NORTHERN GOTLAND AND FÄRÖ	580258N 0190347E - 580258N 0192847E - 575628N 0192847E - 573459N 0185947E - 573859N 0184747E - 574658N 0183747E - 580158N 0185647E - 580258N 0190347E	UNL ————— GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ES R28A TOFTA	573742N 0181053E - 573524N 0181054E - 573430N 0181232E - 573258N 0181207E - 572859N 0180747E - 572829N 0180017E - 572936N 0175756E - 573314N 0175817E - 573619N 0180147E - 573705N 0180647E - 573742N 0181053E	27500 ft AMSL ————— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller VISBY ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or VISBY ATS.
ES R28B TOFTA	574058N 0175717E - 573705N 0180647E - 573619N 0180147E - 573314N 0175817E - 572936N 0175756E - 572829N 0180017E - 572729N 0175017E - 573528N 0175047E - 574058N 0175717E	27500 ft AMSL ————— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller VISBY ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or VISBY ATS.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R28C TOFTA	574205N 0181054E - 573742N 0181053E - 573705N 0180647E - 574058N 0175717E - 574205N 0181054E	27500 ft AMSL ————— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller VISBY ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or VISBY ATS.
ES R30A SKILLINGARYD	573041N 0140610E - 572928N 0141419E - 572128N 0141049E - 572058N 0140519E - 572910N 0140517E - 573041N 0140610E	24500 ft AMSL ————— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC, STOCKHOLM ACC, JÖNKÖPING ATS eller HAGSHULT ATS när Hagshult TMA är upprättat via NOTAM eller AIP SUP. Military activities including aviation operations. Permission obtainable from MALMÖ ACC, STOCKHOLM ACC, JÖNKÖPING ATS or HAGSHULT ATS when established by NOTAM or AIP SUP.
ES R30B SKILLINGARYD	572128N 0141049E - 571659N 0140919E - 571659N 0140449E - 572058N 0140519E - 572128N 0141049E	24500 ft AMSL ————— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC, STOCKHOLM ACC, JÖNKÖPING ATS eller HAGSHULT ATS när Hagshult TMA är upprättat via NOTAM eller AIP SUP. Military activities including aviation operations. Permission obtainable from MALMÖ ACC, STOCKHOLM ACC, JÖNKÖPING ATS or HAGSHULT ATS when established by NOTAM or AIP SUP.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R31 STORA AND LILLA KARLSÖ	A circle with radius 8 NM centred on 571759N 0175947E	FL 85 — GND	Fågelreservat. Upprättat 15 MAR-15 AUG. Särskilda tillstånd från Transportstyrelsen krävs utom för svenska luftfartyg som används i skarpa insatser av Försvarsmakten, Polismyndigheten, Säkerhetspolisen, Kustbevakningen, Sjöfartsverket, Tullverket, Lantmäteriet, ambulanstransport med hög medicinsk prioritet eller med luftfartyg när de används i räddningsinsatser enligt bestämmelserna i lagen om skydd mot olyckor (2003:778). Bird sanctuary. Established 15 MAR-15 AUG. Special permission from the Swedish Transport Agency is required with the following exceptions: Swedish aircraft used on mission by the Swedish Armed Forces, Police, Swedish Security Service, Swedish Coast Guard, Swedish Maritime Administration, Swedish Customs, ambulance transport with high medical priority or aircraft engaged in rescue operations in accordance with the Civil Protection Act (2003:778).
ES R32 NYÅRSÅSEN	564459N 0124650E - 564459N 0124850E - 564359N 0124950E - 564259N 0124850E - 564329N 0124550E - 564459N 0124650E	9500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller HALMSTAD ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or HALMSTAD ATS.
ES R33 ARCHIPELAGO OF BLEKINGE	561559N 0153649E - 561059N 0155749E - 560429N 0155849E - 555659N 0155149E - 555659N 0154149E - 560259N 0151819E - 560729N 0151819E - 561259N 0152149E - 561559N 0153649E	UNL — GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ES R34 RAVLUNDA	555623N 0142228E - clockwise along an arc centred on 554402N 0140944E and with radius 14.3 NM - 553407N 0142753E - 554325N 0141146E - 554319N 0140919E - 554514N 0140819E - 554609N 0140954E - 554544N 0141144E - 555623N 0142228E	17000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller KRISTIANSTAD ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or KRISTIANSTAD ATS.
ES R35 RAVLUNDA VÄST	554632N 0140547E - 554609N 0140954E - 554514N 0140819E - 554319N 0140919E - 554325N 0141146E - 554204N 0140717E - 554507N 0140358E - 554632N 0140547E	10500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller KRISTIANSTAD ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or KRISTIANSTAD ATS.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R37 HÄRAD	592158N 0165748E - 592052N 0170148E - 591844N 0165948E - 591844N 0165518E - 592028N 0165408E - 592128N 0165418E - 592158N 0165748E	10500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet upp till 2000 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations up to 2000 ft AMSL. Permission obtainable from STOCKHOLM ACC.
ES R38A RINKABY	555929N 0141619E - 555829N 0142019E - 555759N 0142849E - 555329N 0142149E - 555629N 0141919E - 555759N 0141549E - 555929N 0141619E	17000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller KRISTIANSTAD ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or KRISTIANSTAD ATS.
ES R38B RINKABY	560059N 0141649E - 560059N 0141919E - 555829N 0142019E - 555929N 0141619E - 560059N 0141649E	17000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller KRISTIANSTAD ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or KRISTIANSTAD ATS.
ES R39 EKSJÖ	A circle with radius 1.6 NM centred on 574058N 0145334E	11000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ES R40 KOSTA	565429N 0153219E - 565229N 0153349E - 564959N 0153049E - 565023N 0152719E - 565259N 0152719E - 565429N 0153219E	18500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ES R41A RINGENÄS	564559N 0123350E - 564159N 0124050E - 564159N 0124340E - 564119N 0124410E - 564019N 0124220E - 563359N 0124220E - 563559N 0123310E - 563959N 0122950E - 564259N 0122950E - 564559N 0123350E	40500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller HALMSTAD ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or HALMSTAD ATS.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R41B RINGENÄS	564559N 0123350E - 564329N 0124150E - 564119N 0124450E - 563359N 0124220E - 564019N 0124220E - 564119N 0124410E - 564159N 0124340E - 564159N 0124050E - 564559N 0123350E	3500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller HALMSTAD ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or HALMSTAD ATS.
ES R43 SÄGEBACKEN	582749N 0115513E - 582739N 0120127E - 582458N 0120150E - 582115N 0115747E - 582250N 0114919E - 582446N 0114755E - 582749N 0115513E	20200 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC, LANDVETTER, TROLLHÄTTAN eller SÄTENÄS ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC, LANDVETTER, TROLLHÄTTAN or SÄTENÄS ATS.
ES R45 MARMA	603351N 0172642E - 603243N 0173254E - 603011N 0173049E - 602709N 0172519E - 603351N 0172642E	14000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ES R46 JUNKÖN	653225N 0221943E - 652355N 0223243E - 651955N 0221943E - 652825N 0220643E - 653225N 0221943E	6100 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från KALLAX ATS. Military activities including aviation operations. Permission obtainable from KALLAX ATS. Området är upprättat (svenska helgdagar undantagna) MÅN - TORS 0730-1500 (0630-1400) FRE 0730-1100 (0630-1000). Under perioden 15 SEP - 1 APR även TIS och TORS 1500-2100 (1400-2000). Established (Swedish public holidays excluded) MON-THU 0730-1500 (0630-1400) FRI 0730-1100 (0630-1000). During the period 15 SEP-1 APR also TUE and THU 1500-2100 (1400-2000).

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R46A JUNKÖN	652752N 0222027E - 652643N 0222055E - 652457N 0222608E - 652315N 0221759E - 652531N 0221748E - 652552N 0221653E - 652716N 0221558E - 652752N 0222027E	6100 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller KALLAX ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or KALLAX ATS. Området är upprättat (svenska helgdagar undantagna) MÅN - TORS 0730-1500 (0630-1400) FRE 0730-1100 (0630-1000). Under perioden 15 SEP - 1 APR även TIS och TORS 1500-2100 (1400-2000). Established (Swedish public holidays excluded) MON-THU 0730-1500 (0630-1400) FRI 0730-1100 (0630-1000). During the period 15 SEP-1 APR also TUE and THU 1500-2100 (1400-2000).
ES R47 SAREK	673314N 0171211E - 673109N 0172407E - 673306N 0173438E - 673105N 0174536E - 672324N 0175841E - 672408N 0180515E - 672309N 0180815E - 671057N 0181818E - 670324N 0181545E - 670219N 0180059E - 670354N 0173716E - 671034N 0170826E - 672425N 0170442E - 673314N 0171211E	FL 100 — GND	Nationalpark. Särskilda tillstånd från Transportstyrelsen krävs förutom operatörer som framgår av ENR 5.1 punkt 2.4.2. National Park. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.2.
ES R49 SÅTENÄS	583058N 0124050E - 583058N 0124550E - 582458N 0125450E - 582158N 0124450E - 582758N 0123750E - 583058N 0124050E	7500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från SÅTENÄS ATS och LANDVETTER ATS. Military activities including aviation operations. Permission obtainable from SÅTENÄS ATS or LANDVETTER ATS.
ES R49A SÅTENÄS	583058N 0124050E - 583058N 0124550E - 582458N 0125450E - 582258N 0124810E - 582658N 0124229E - 582758N 0124026E - 582928N 0123920E - 583058N 0124050E	7500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från SÅTENÄS ATS och LANDVETTER ATS. Military activities including aviation operations. Permission obtainable from SÅTENÄS ATS or LANDVETTER ATS.
ES R49B SÅTENÄS	582928N 0123920E - 582758N 0124026E - 582658N 0124229E - 582258N 0124810E - 582158N 0124450E - 582758N 0123750E - 582928N 0123920E	7500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från SÅTENÄS ATS och LANDVETTER ATS. Military activities including aviation operations. Permission obtainable from SÅTENÄS ATS or LANDVETTER ATS.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R49C SÄTENÄS	582934N 0124114E - 582934N 0124437E - 582658N 0124553E - 582642N 0124420E - 582658N 0124229E - 582758N 0124026E - 582934N 0124114E	7500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från SÄTENÄS ATS och LANDVETTER ATS. Military activities including aviation operations. Permission obtainable from SÄTENÄS ATS or LANDVETTER ATS.
ES R50 MÄSTOCKA	564329N 0130650E - 564329N 0132250E - 563659N 0132150E - 563259N 0131550E - 563939N 0130050E - 564329N 0130650E	11000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC, HALMSTAD ATS eller ÄNGELHOLM ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC, HALMSTAD ATS or ÄNGELHOLM ATS.
ES R51A KALIXFORS	674659N 0202044E - 674554N 0203044E - 674323N 0203652E - 674007N 0203743E - 674208N 0202510E - 674405N 0202018E - 674659N 0202044E	14000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet med UAS upp till 1900 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC eller KIRUNA ATS. Military activities including aviation operations with UAS up to 1900 ft AMSL. Permission obtainable from STOCKHOLM ACC or KIRUNA ATS.
ES R51B KALIXFORS	674745N 0201710E - 674659N 0202044E - 674405N 0202018E - 674404N 0201427E - 674734N 0201514E - 674745N 0201710E	14000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet med UAS upp till 1900 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC eller KIRUNA ATS. Military activities including aviation operations with UAS up to 1900 ft AMSL. Permission obtainable from STOCKHOLM ACC or KIRUNA ATS.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R52 SOLLIDEN	565238N 0163713E - 565155N 0163912E - 565126N 0163850E - 565049N 0163738E - 565129N 0163548E - 565234N 0163548E - 565238N 0163713E	2000 ft AMSL — GND	Upprättat 1 JUN-20 AUG. Särskilda tillstånd från Transportstyrelsen krävs förutom för svenska militära luftfartyg, svenska luftfartyg som används av Polismyndigheten, Försvarmakten, Kustbevakningen, Lantmäteriet och luftfartyg när de används i räddningsinsatser enligt bestämmelserna i lagen (2003:778) om skydd mot olyckor. Established 1 JUN-20 AUG. Special permission by Swedish Transport Agency is required with the following exceptions: Military aircraft and Swedish aircraft used by Police, Swedish Armed Forces, Coastguard, National Land Survey and aircraft engaged in rescue operations in accordance with Civil Protection Act (2003:778).
ES R53 STORA SJÖFALLET	674805N 0173707E - 674129N 0180937E - 672645N 0184915E - 672354N 0184312E - 672202N 0182815E - 672633N 0181425E - 672408N 0180515E - 672324N 0175841E - 673105N 0174536E - 673306N 0173438E - 673109N 0172407E - 673314N 0171211E - 673404N 0171102E - 674805N 0173707E	FL 95 — GND	Nationalpark. Särskilda tillstånd från Transportstyrelsen krävs förutom operatörer som framgår av ENR 5.1 punkt 2.4.2. National Park. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.2.
ES R55 KABUSA	552629N 0135750E - 552629N 0135949E - 551659N 0140619E - 551659N 0135550E - 552124N 0134750E - 552629N 0135750E	27500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC. Military activities including aviation operations. Permission obtainable from MALMÖ ACC.
ES R56 FALUN	603857N 0153948E - 603857N 0154548E - 603627N 0154548E - 603627N 0153948E - 603857N 0153948E	8000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ES R57 PADJELANTA	674433N 0163720E - 673404N 0171102E - 673314N 0171211E - 672425N 0170442E - 671034N 0170826E - 670614N 0170946E - 671026N 0164735E - 670851N 0163846E - 671442N 0163346E - 671311N 0162302E - Swedish/Norwegian border northward to 674433N 0163720E	FL 90 — GND	Nationalpark. Särskilda tillstånd från Transportstyrelsen krävs förutom operatörer som framgår av ENR 5.1 punkt 2.4.2. National Park. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.2.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R58A TÅME	650325N 0214244E - 645455N 0214444E - 644835N 0212944E - 644911N 0211514E - 645925N 0211844E - 650325N 0214244E	40500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet upp till FL95. Tillstånd kan erhållas från STOCKHOLM ACC, LULEÅ ATS eller SKELLEFTEÅ ATS. Military activities including aviation operations up to FL95. Permission obtainable from STOCKHOLM ACC, LULEÅ ATS or SKELLEFTEÅ ATS.
ES R58B TÅME	650255N 0212244E - 650115N 0212944E - 645925N 0211844E - 645355N 0211650E - 645655N 0210944E - 650156N 0211245E - 650255N 0212244E	3500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC, LULEÅ ATS eller SKELLEFTEÅ ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC, LULEÅ ATS or SKELLEFTEÅ ATS.
ES R59 KUSTRÄSK	655655N 0212944E - 655555N 0213544E - 655225N 0213544E - 655155N 0212444E - 655455N 0212044E - 655655N 0212944E	15500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller KALLAX ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or KALLAX ATS.
ES R60 LYSEKIL	582458N 0104221E - 582458N 0111151E - 581028N 0112221E - 575358N 0111851E - 575358N 0110251E - 581528N 0105051E - 582458N 0104221E	40500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC or LANDVETTER ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or LANDVETTER ATS.
ES R61 SÄNFJÄLLET	622026N 0132849E - 622026N 0134019E - 621556N 0134149E - 621326N 0133549E - 621326N 0132519E - 621456N 0132419E - 622026N 0132849E	FL 70 — GND	Nationalpark. Särskilda tillstånd från Transportstyrelsen krävs förutom operatörer som framgår av ENR 5.1 punkt 2.4.2. National Park. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.2.
ES R62 SISJÖN	573905N 0115950E - 573658N 0120250E - 573458N 0115950E - 573628N 0115620E - 573905N 0115950E	1800 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet upp till 1000 ft AMSL. Tillstånd kan erhållas från MALMÖ ACC eller LANDVETTER ATS. Military activities including aviation operations up to 1000 ft AMSL. Permission obtainable from MALMÖ ACC or LANDVETTER ATS.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R63A STURKÖ NORD	560659N 0152849E - 560659N 0153719E - 560349N 0154719E - 555659N 0154719E - 555359N 0153949E - 555959N 0153949E - 560229N 0153604E - 560416N 0152349E - 560659N 0152849E	40500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or RONNEBY ATS.
ES R63B STURKÖ SYD	560416N 0152349E - 560229N 0153604E - 555959N 0153949E - 555359N 0153949E - 555429N 0153349E - 555759N 0152749E - 560416N 0152349E	40500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or RONNEBY ATS.
ES R63C STURKÖ INRE	561123N 0153027E - 560953N 0154829E - 560349N 0154719E - 560659N 0153719E - 560659N 0152849E - 561123N 0153027E	3500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or RONNEBY ATS.
ES R63D STURKÖ POTTNEHOLMEN	560854N 0153920E - 560854N 0153954E - 560830N 0153954E - 560830N 0153920E - 560854N 0153920E	2200 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or RONNEBY ATS.
ES R63E STURKÖ AU RUTA	560000N 0153300E - 560000N 0153700E - 555758N 0153700E - 555758N 0153300E - 560000N 0153300E	2200 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or RONNEBY ATS.
ES R64M TORHAMN	560759N 0161648E - 555659N 0160648E - 560439N 0155039E - 560459N 0154949E - 560759N 0161648E	21500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or RONNEBY ATS.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R64S TORHAMN	561459N 0160248E - 560959N 0162948E - 560459N 0162948E - 554959N 0154719E - 560349N 0154719E - 561459N 0160248E	40500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or RONNEBY ATS.
ES R66 ASKÖ	585458N 0174117E - 585158N 0175217E - 583804N 0175259E - 584358N 0173547E - 584728N 0173347E - 585158N 0173447E - 585458N 0174117E	7500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ES R67 VECKHOLM	593106N 0172402E - 593048N 0172951E - 592916N 0172931E - 592741N 0172750E - 592950N 0172342E - 593106N 0172402E	2000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet upp till 1500 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations up to 1500 ft AMSL. Permission obtainable from STOCKHOLM ACC.
ES R68 GRINDSJÖN	590528N 0174947E - 590528N 0175257E - 590258N 0175047E - 590428N 0174747E - 590528N 0174947E	2000 ft AMSL — GND	Skjutning, sprängning och UAS. Tillstånd kan erhållas från STOCKHOLM ACC. Upprättat MÅN-FRE 0700-1530 (0600-1430). Firing, blasting and UAS. Permission obtainable from STOCKHOLM ACC. Established MON-FRI 0700-1530 (0600-1430).
ES R70A HÄRNÖN	624656N 0181146E - 624656N 0183946E - 623836N 0183946E - 622656N 0182046E - 622656N 0175647E - 623356N 0175847E - 624656N 0181146E	28000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller SUNDSVALL ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or SUNDSVALL ATS.
ES R70B PRÄSTHUS	624556N 0180746E - 624556N 0181051E - 623956N 0180447E - 623956N 0180032E - 624126N 0180047E - 624556N 0180746E	4500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller SUNDSVALL ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or SUNDSVALL ATS.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R70C VANGSTA	623956N 0180032E - 623956N 0180946E - 623556N 0180547E - 623556N 0175947E - 623956N 0180032E	16500 ft AMSL ————— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller SUNDSVALL ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or SUNDSVALL ATS.
ES R70D SKÄRSVIKEN	623556N 0175747E - 623556N 0180047E - 623356N 0175847E - 623156N 0175807E - 623356N 0175247E - 623556N 0175747E	4500 ft AMSL ————— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller SUNDSVALL ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or SUNDSVALL ATS.
ES R71 NÄTTARÖ	590058N 0182917E - 585408N 0190132E - 584828N 0185017E - 584023N 0183024E - 583243N 0181147E - 582943N 0175817E - 583459N 0175457E - 583804N 0175259E - 585158N 0175217E - 585218N 0175747E - 585458N 0180724E - 590058N 0182917E	40500 ft AMSL ————— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ES R71A NÄTTARÖ	585458N 0180724E - 583459N 0175457E - 583804N 0175259E - 585158N 0175217E - 585218N 0175747E - 585458N 0180724E	40500 ft AMSL ————— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ES R71B NÄTTARÖ	585458N 0180724E - 584341N 0181404E - 583459N 0175457E - 585458N 0180724E	40500 ft AMSL ————— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ES R71C NÄTTARÖ	585458N 0180724E - 584858N 0182548E - 584540N 0181827E - 584341N 0181404E - 585458N 0180724E	40500 ft AMSL ————— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R71D NÄTTARÖ	590058N 0182917E - 585358N 0183047E - 584858N 0182548E - 585458N 0180724E - 590058N 0182917E	40500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ES R71E NÄTTARÖ	584540N 0181827E - 584023N 0183024E - 583243N 0181147E - 582943N 0175817E - 583459N 0175457E - 584341N 0181404E - 584540N 0181827E	40500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ES R71F NÄTTARÖ	590058N 0182917E - 585408N 0190132E - 584828N 0185017E - 584023N 0183024E - 584540N 0181827E - 584858N 0182548E - 585358N 0183047E - 590058N 0182917E	40500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ES R74 ARVIDSJAUR	653525N 0190315E - 653525N 0190845E - 653355N 0191245E - 653125N 0191515E - 652955N 0191415E - 652825N 0190345E - 653255N 0190215E - 653525N 0190315E	15500 ft AMSL — GND	Militär verksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller ARVIDSJAUR ATS. Military activities. Permission obtainable from STOCKHOLM ACC or ARVIDSJAUR ATS.
ES R74A ARVIDSJAUR	653525N 0190315E - 653125N 0191515E - 652955N 0191415E - 652825N 0190345E - 653255N 0190215E - 653525N 0190315E	15500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller ARVIDSJAUR ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or ARVIDSJAUR ATS.
ES R74B ARVIDSJAUR	653525N 0190315E - 653525N 0190845E - 653355N 0191245E - 653125N 0191515E - 653525N 0190315E	15500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet upp till 1600 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC eller ARVIDSJAUR ATS. Military activities including aviation operations up to 1600 ft AMSL. Permission obtainable from STOCKHOLM ACC or ARVIDSJAUR ATS.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R75 SKÖVDE	581928N 0135149E - 581858N 0135549E - 581528N 0135449E - 581558N 0134949E - 581928N 0135149E	10000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC. Military activities including aviation operations. Permission obtainable from MALMÖ ACC.
ES R76 LOMBEN	661455N 0230842E - 660955N 0231242E - 660655N 0231142E - 660955N 0225543E - 661355N 0225643E - 661455N 0230842E	14500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ES R77 SKOGSTIBBLE	594927N 0171747E - 594658N 0171847E - 594658N 0171347E - 594857N 0171347E - 594927N 0171747E	3500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet upp till 1200 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC eller UPPSALA ATS. Military activities including aviation operations up to 1200 ft AMSL. Permission obtainable from STOCKHOLM ACC or UPPSALA ATS.
ES R78 HORSSJÖN	594657N 0134419E - 594557N 0134949E - 594147N 0134949E - 594157N 0134449E - 594357N 0134249E - 594657N 0134419E	8500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet upp till 4000 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC eller KARLSTAD ATS. Military activities including aviation operations up to 4000 ft AMSL. Permission obtainable from STOCKHOLM ACC or KARLSTAD ATS.
ES R85 HOLMÖGADD	634056N 0205045E - 634056N 0205515E - 633156N 0204615E - 633456N 0204015E - 634056N 0205045E	UNL — GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ES R87 SÖDERARM	595243N 0190635E - 595038N 0191356E - 594728N 0192216E - 594428N 0192446E - 593928N 0191146E - 594658N 0190247E - 595243N 0190635E	UNL — GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ES R88 LANDSORT	585328N 0174202E - 583958N 0175117E - 584839N 0173751E - 585328N 0174202E	UNL — GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R91 STÄRNÖ	A circle with radius 1.6 NM centred on 560829N 0145049E	UNL — GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ES R93 STYRSÖ	573918N 0114317E - 573918N 0114701E - 573721N 0114735E - 573644N 0114920E - 573528N 0114925E - 573458N 0114250E - 573918N 0114317E	UNL — GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ES R95 MARSTRAND	575711N 0114306E - 575623N 0114450E - 575435N 0114222E - 575458N 0113838E - 575711N 0114306E	UNL — GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ES R96 BERGA	590536N 0180806E - 590450N 0180852E - 590414N 0180640E - 590406N 0180635E - 590347N 0180524E - 590427N 0180412E - 590536N 0180806E	2200 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet upp till 1500 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations up to 1500 ft AMSL. Permission obtainable from STOCKHOLM ACC.
ES R97 KUMLA	A circle with radius 2000 m centred on 590715N 0150718E	2000 ft AMSL — GND	Fängelse. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 punkt 2.2.2. Prison. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.2.2.
ES R98 HALL	A circle with radius 2000 m centred on 590946N 0174059E	2000 ft AMSL — GND	Fängelse. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 punkt 2.2.2. Prison. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.2.2.
ES R99 TIDAHOLM	A circle with radius 2000 m centred on 581043N 0135558E	2000 ft AMSL — GND	Fängelse. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 punkt 2.2.2. Prison. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.2.2.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R100 SALTVIK	A circle with radius 2000 m centred on 623914N 0175343E	2000 ft AMSL — GND	Fängelse. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 punkt 2.2.2. Prison. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.2.2.
ES R101 NORRTÄLJE	A circle with radius 2000 m centred on 594612N 0184226E	2000 ft AMSL — GND	Fängelse. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 punkt 2.2.2. Prison. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.2.2.
ES R102 HAGA	A circle with radius 1000 m centred on 592150N 0180220E	2000 ft AMSL — GND	Särskilda tillstånd från Transportstyrelsen krävs, förutom för luftfartyg specificerade i ENR 5.1 punkt 2.4.1. Med tillstånd från STOCKHOLM/Bromma ATS, kan passering enligt visuelflygregler få äga rum i samband med start eller landning på STOCKHOLM/Bromma flygplats. Med tillstånd från STOCKHOLM/Bromma ATS eller STOCKHOLM ACC kan passering med varmluftsballong få äga rum, på lägsta höjden 1000 ft AMSL, om inte Transportstyrelsen tillfälligt dragit tillbaka denna möjlighet. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.1. With permission obtained from STOCKHOLM/Bromma ATS, crossing of the area according to visual flight rules may be carried out in conjunction with take-off or landing at STOCKHOLM/Bromma aerodrome. With permission obtained from STOCKHOLM/Bromma ATS or STOCKHOLM ACC crossing of the area with manned hot air balloon may be conducted at lowest 1000 ft AMSL, unless Swedish Transport Agency has temporarily revoked this option.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R103 REMMENE	580417N 0125956E - 580125N 0130014E - 580011N 0125635E - 580044N 0125404E - 580232N 0125256E - 580417N 0125956E	20200 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller LANDVETTER ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or LANDVETTER ATS.
ES R104 KÄNSÖ	574000N 0111251E - 574000N 0112851E - 574000N 0113514E - 574000N 0114424E - 573720N 0114546E - 573458N 0114650E - 573310N 0114533E - 573030N 0114339E - 573030N 0112851E - 573030N 0112631E - 574000N 0111251E	9000 ft AMSL — GND	Militär verksamhet. Tillstånd kan erhållas från MALMÖ ACC eller LANDVETTER ATS. Military activities. Permission obtainable from MALMÖ ACC or LANDVETTER ATS.
ES R104A KÄNSÖ	574000N 0113514E - 574000N 0114424E - 573720N 0114546E - 573458N 0114650E - 573310N 0114533E - 573310N 0113825E - 574000N 0113514E	9000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet upp till 2000 ft AMSL. Tillstånd kan erhållas från MALMÖ ACC eller LANDVETTER ATS. Military activities including aviation operations up to 2000 ft AMSL. Permission obtainable from MALMÖ ACC or LANDVETTER ATS.
ES R104B KÄNSÖ	574000N 0112851E - 574000N 0113514E - 574000N 0114424E - 573720N 0114546E - 573458N 0114650E - 573030N 0114339E - 573030N 0112851E - 574000N 0112851E	9000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet upp till 2000 ft AMSL. Tillstånd kan erhållas från MALMÖ ACC eller LANDVETTER ATS. Military activities including aviation operations up to 2000 ft AMSL. Permission obtainable from MALMÖ ACC or LANDVETTER ATS.
ES R104C KÄNSÖ	574000N 0111251E - 574000N 0112851E - 573030N 0112851E - 573030N 0112631E - 574000N 0111251E	9000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet upp till 2000 ft AMSL. Tillstånd kan erhållas från MALMÖ ACC eller LANDVETTER ATS. Military activities including aviation operations up to 2000 ft AMSL. Permission obtainable from MALMÖ ACC or LANDVETTER ATS.
ES R105 TUMBA	A circle with radius 1000 m centred on 591205N 0174930E	2000 ft AMSL — GND	Särskilt tillstånd från Transportstyrelsen krävs förutom för operatörer specificerade i ENR 5.1 punkt 2.4.1. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.1.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R106 VÄXJÖ	A circle with radius 1000 m centred on 565203N 0144943E	1600 ft AMSL ————— GND	Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 punkt 2.4.1 och luftfartyg som används för kraftledningsinspektion inom området, luftfartyg som används för flygvalidering av VÄXJÖ/Kronoberg flygplats och UAS som används av rättspsykiatriska regionkliniken i Växjö, upp till 120 m GND. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.1 and aircraft performing power line inspection within the area, aircraft performing measurement assignments for VÄXJÖ/Kronoberg AD and UAS operated by Kronoberg Forensic Clinic, up to 120 m GND.
ES R107 FORSMARK	A circle with radius 1 NM centred on 602412N 0181030E	2000 ft AMSL ————— GND	Kärnkraftverk. Särskilda tillstånd från Transportstyrelsen krävs förutom för UAS-verksamhet som genomförs av Forsmark Kraftgrupp AB och Svensk Kärnbränslehantering AB upp till 120 m GND, eller operatörer som framgår av ENR 5.1 punkt 2.4.1. Nuclear power plant. Special permission by Swedish Transport Agency is required, except for UAS-operations conducted by Forsmark Kraftgrupp AB and Svensk Kärnbränslehantering AB up to 120 m GND or operators specified in ENR 5.1 para 2.4.1.
ES R108 OSKARSHAMN	A circle with radius 1 NM centred on 572454N 0164018E	2000 ft AMSL ————— GND	Kärnkraftverk. Särskilda tillstånd från Transportstyrelsen krävs förutom för UAS-verksamhet som genomförs av OKG AB och Svensk Kärnbränslehantering AB upp till 120 m GND, eller operatörer som framgår av ENR 5.1 punkt 2.4.1. Nuclear power plant. Special permission by Swedish Transport Agency is required, except for UAS-operations conducted by OKG AB and Svensk Kärnbränslehantering AB up to 120 m GND or operators specified in ENR 5.1 para 2.4.1.
ES R109 RINGHALS	A circle with radius 1 NM centred on 571530N 0120636E	2000 ft AMSL ————— GND	Kärnkraftverk. Särskilt tillstånd från Transportstyrelsen krävs förutom för operatörer som framgår av ENR 5.1 punkt 2.4.1 och för UAS som används av kärnkraftverket, upp till 120 m GND. Nuclear power plant. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.1 and UAS operated by the nuclear power plant up to 120 m GND.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R110 HUDDINGE	A circle with radius 1000 m centred on 591252N 0175557E	1500 ft AMSL — GND	Särskilt tillstånd från Transportstyrelsen krävs förutom för operatörer specificerade i ENR 5.1 punkt 2.4.1. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.1
ES R111 SÖRENTORP	A circle with radius 1000 m centred on 592348N 0175929E	2000 ft AMSL — GND	Särskilda tillstånd från Transportstyrelsen krävs förutom för svenska luftfartyg som används av Försvarmakten, Polismyndigheten, Säkerhetspolisen, Kustbevakningen, Sjöfartsverket, Lantmäteriet, ambulanstransport med hög medicinsk prioritet eller med luftfartyg när de används i räddningsinsatser enligt bestämmelserna i lagen om skydd mot olyckor (2003:778). Special permission by Swedish Transport Agency is required, except for Swedish aircraft operated by Swedish Armed Forces, Police Authority, Swedish Security Service, Swedish Coast Guard, Swedish Maritime Administration, National Land Survey Office, ambulance transport with high medical priority or by aircraft engaged in rescue operations in accordance with Civil Protection Act (2003:778).
ES R112 VÄLLINGE	A circle with radius 1.8 NM centred on 591543N 0174053E	2000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ES R113 STOCKHOLM	592015N 0180200E - 592010N 0180509E - 591914N 0180429E - 591940N 0180141E - 592015N 0180200E	1000 ft AMSL — GND	Drönarflygning är förbjuden med följande undantag : Drönare som används av polisen, svenska Försvarmakten, Lantmäteriet och drönare engagerade i räddningsverksamhet i enlighet med Lag (2003:778) om skydd mot olyckor. Tillstånd kan erhållas från Transportstyrelsen. Drone flights are prohibited with the following exceptions: Drones used by Police, Swedish Armed Forces, National Land Survey and Drones engaged in rescue operations in accordance with Civil Protection act (2003:778). Permission obtainable from the Swedish Transport Agency.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R114 DJURÖ	585235N 0132759E - 585232N 0132917E - 585117N 0133052E - 585008N 0133035E - 584933N 0132803E - 584924N 0132433E - 584953N 0132419E - 585235N 0132759E	1200 ft AMSL — GND	Nationalpark. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 punkt 2.4.2. National Park. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.2.
ES R115 FULUFJÄLLET	614034N 0123741E - 613440N 0125503E - 612435N 0125531E - 612316N 0124941E - Swedish/Norwegian border northward to 613407N 0123125E - 613932N 0123015E - 614034N 0123741E	FL 70 — GND	Nationalpark. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 punkt 2.4.2. National Park. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.2.
ES R116 FÄRNEBOFJÄRDEN	601744N 0165024E - 601731N 0165238E - 601631N 0165258E - 601547N 0165447E - 601422N 0165346E - 601540N 0165139E - 601500N 0164941E - 601318N 0165159E - 601030N 0164634E - 600840N 0164855E - 600553N 0164327E - 600753N 0164141E - 600852N 0164422E - 601143N 0164211E - 601100N 0163917E - 601120N 0163832E - 601159N 0164139E - 601303N 0164125E - 601408N 0164506E - 601251N 0164744E - 601715N 0164841E - 601744N 0165024E	1200 ft AMSL — GND	Nationalpark. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 punkt 2.4.2. National Park. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.2.
ES R117 NYNÄSHAMN	A circle with radius 1000 m centred on 585523N 0175804E	1400 ft AMSL — GND	Oljeraffineri. Särskilda tillstånd från Transportstyrelsen krävs förutom för UAS-verksamhet som genomförs av Nynas AB upp till 120 m GND, eller operatörer som framgår av ENR 5.1 punkt 2.4.1. Oil refinery. Special permission by Swedish Transport Agency is required, except for UAS-operations conducted by Nynas AB up to 120 m GND or operators specified in ENR 5.1 para 2.4.1.
ES R118 TÄRNÖ NORTH	560659N 0150449E - 560416N 0152349E - 555759N 0152749E - 555429N 0153349E - 555810N 0144850E - 560629N 0145819E - 560659N 0150449E	40500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC och RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC and RONNEBY ATS.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R119 TÄRNÖ WEST	555810N 0144850E - 555629N 0150949E - 555353N 0150949E - 555354N 0150930E - 555333N 0150905E - 555312N 0150840E - 555252N 0150813E - 555233N 0150744E - 555214N 0150715E - 555203N 0150658E - 555150N 0150635E - 555132N 0150603E - 555115N 0150531E - 555059N 0150457E - 555043N 0150422E - 555028N 0150346E - 555014N 0150310E - 555000N 0150232E - 554951N 0150206E - 554939N 0150130E - 554927N 0150051E - 554916N 0150011E - 554905N 0145931E - 554855N 0145850E - 554848N 0145816E - 554843N 0145751E - 554835N 0145709E - 554827N 0145626E - 554821N 0145543E - 554815N 0145500E - 554810N 0145416E - 554807N 0145332E - 554804N 0145248E - 554756N 0145019E - 554748N 0144756E - 554719N 0144531E - 554648N 0144302E - 554617N 0144032E - 554609N 0143949E - 554959N 0143949E - 555810N 0144850E	40500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC och RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC and RONNEBY ATS.
ES R120 TÄRNÖ EAST	555629N 0150949E - 555359N 0153949E - 554452N 0153949E - 554452N 0153945E - 554455N 0153901E - 554459N 0153817E - 554504N 0153733E - 554509N 0153650E - 554516N 0153607E - 554523N 0153524E - 554531N 0153442E - 554540N 0153401E - 554550N 0153320E - 554600N 0153239E - 554612N 0153200E - 554624N 0153121E - 554637N 0153042E - 554650N 0153005E - 554705N 0152929E - 554720N 0152853E - 554735N 0152818E - 554752N 0152745E - 554809N 0152712E - 554827N 0152640E - 554835N 0152626E - 555011N 0152345E - 555148N 0152103E - 555323N 0151824E - 555337N 0151412E - 555348N 0151111E - 555353N 0150949E - 555629N 0150949E	40500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC och RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC and RONNEBY ATS.
ES R121 REVINGE	554629N 0134202E - 553809N 0134045E - 553820N 0133819E - 553827N 0133632E - 553841N 0132931E - 554052N 0132752E - 554607N 0132610E - 554610N 0133616E - 554629N 0134202E	2000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC. Military activities including aviation operations. Permission obtainable from MALMÖ ACC.
ES R121A REVINGE	554610N 0133616E - 553841N 0132931E - 554052N 0132752E - 554607N 0132610E - 554610N 0133616E	2000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC. Military activities including aviation operations. Permission obtainable from MALMÖ ACC.
ES R121B REVINGE	554629N 0134202E - 553809N 0134045E - 553820N 0133819E - 553827N 0133632E - 553841N 0132931E - 554610N 0133616E - 554629N 0134202E	2000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC. Military activities including aviation operations. Permission obtainable from MALMÖ ACC.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R122 MUSKÖ	590832N 0181840E - 590058N 0182917E - 585458N 0180724E - 585953N 0175447E - 590347N 0180524E - 590406N 0180635E - 590414N 0180640E - 590450N 0180851E - 590832N 0181840E	4000 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ES R123 SANDBY	554607N 0132610E - 554052N 0132752E - 554115N 0132506E - 554222N 0132320E - 554331N 0132412E - 554323N 0132453E - 554327N 0132534E - 554355N 0132552E - 554409N 0132441E - 554607N 0132610E	1500 ft AMSL — GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC. Military activities including aviation operations. Permission obtainable from MALMÖ ACC.
ES R124 BJÖRKBORN	592304N 0143310E - 592304N 0143318E - 592231N 0143318E - 592209N 0143326E - 592141N 0143324E - 592043N 0143247E - 592031N 0143252E - 592027N 0143132E - 592111N 0143103E - 592135N 0143100E - 592210N 0143116E - 592217N 0143116E - 592228N 0143140E - 592304N 0143310E	2800 ft AMSL — GND	Särskilda tillstånd från Transportstyrelsen krävs förutom för UAS-verksamhet som utförs av för skyddsobjektet ansvarig skyddsvakt upp till 120 m GND, eller operatörer som framgår av ENR 5.1 punkt 2.4.1. Special permission by Swedish Transport Agency is required, except for UAS-operations carried out by responsible security guard for the facility with protected status up to 120 m GND, or operators specified in ENR 5.1 para 2.4.1.
ES R125 GÖTEBORG	574231N 0115839E - 574231N 0115920E - 574211N 0115926E - 574211N 0115826E - 574231N 0115839E	1000 ft AMSL — GND	Flygning med drönare är förbjuden. Särskilda tillstånd från Transportstyrelsen krävs utom för drönare som används av polisen, svenska Försvarsmakten, Lantmäteriet och drönare engagerade i räddningsverksamhet i enlighet med lagen (2003:778) om skydd mot olyckor. Flying with drones is prohibited. Special permission by Swedish Transport Agency is required except for drones used by Police, Swedish Armed Forces, National Land Survey and drones engaged in rescue operations in accordance with Civil Protection act (2003:778).
ES R200A TORSBY	604300N 0133700E - 601400N 0135100E - 601400N 0130200E - 602800N 0125000E - 604300N 0133700E	FL 195 — 5000 ft AMSL	Segelflygning i moln. Tillstånd att passera ges av STOCKHOLM ACC. Bestämmelser: Se ENR 5.1 punkt 2.3. Soaring in clouds. Permission to cross shall be obtained from STOCKHOLM ACC. Provisions: See ENR 5.1 para 2.3.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R200B TORSBY	604600N 0142000E - 601400N 0144700E - 601400N 0135100E - 604300N 0133700E - 604600N 0142000E	FL 195 5000 ft AMSL	Segelflygning i moln. Tillstånd att passera ges av STOCKHOLM ACC. Bestämmelser: Se ENR 5.1 punkt 2.3. Soaring in clouds. Permission to cross shall be obtained from STOCKHOLM ACC. Provisions: See ENR 5.1 para 2.3.
ES R204 ÄLLEBERG EXTENDED	581438N 0134522E - 581059N 0135710E - 580202N 0135804E - 574816N 0134800E - 574602N 0131157E - 580100N 0131529E - 581438N 0134522E	FL 195 3000 ft AMSL	Segelflygning i moln. Tillstånd att passera ges av MALMÖ ACC. Bestämmelser: Se ENR 5.1 punkt 2.3. Soaring in clouds. Permission to cross shall be obtained from MALMÖ ACC. Provisions: See ENR 5.1 para 2.3.
ES R204A ÄLLEBERG EXTENDED	581438N 0134522E - 581059N 0135710E - 580202N 0135804E - 575454N 0135254E - 580100N 0131529E - 581438N 0134522E	FL 195 3000 ft AMSL	Segelflygning i moln. Tillstånd att passera ges av MALMÖ ACC. Bestämmelser: Se ENR 5.1 punkt 2.3. Soaring in clouds. Permission to cross shall be obtained from MALMÖ ACC. Provisions: See ENR 5.1 para 2.3.
ES R204B ÄLLEBERG EXTENDED	580100N 0131529E - 575454N 0135254E - 574816N 0134800E - 574602N 0131157E - 580100N 0131529E	FL 195 3000 ft AMSL	Segelflygning i moln. Tillstånd att passera ges av MALMÖ ACC. Bestämmelser: Se ENR 5.1 punkt 2.3. Soaring in clouds. Permission to cross shall be obtained from MALMÖ ACC. Provisions: See ENR 5.1 para 2.3.
ES R208 KATRINEHOLM	590400N 0154600E - 590400N 0160900E - 585400N 0160900E - 584300N 0151000E - 584900N 0151000E - 590400N 0154600E	FL 195 3000 ft AMSL	Segelflygning i moln. Tillstånd att passera ges av STOCKHOLM ACC. Bestämmelser: Se ENR 5.1 punkt 2.3. Soaring in clouds. Permission to cross shall be obtained from STOCKHOLM ACC. Provisions: See ENR 5.1 para 2.3.
ES R208A KATRINEHOLM	590113N 0153920E - 584828N 0153920E - 584300N 0151000E - 584900N 0151000E - 590113N 0153920E	FL 195 3000 ft AMSL	Segelflygning i moln. Tillstånd att passera ges av STOCKHOLM ACC. Bestämmelser: Se ENR 5.1 punkt 2.3. Soaring in clouds. Permission to cross shall be obtained from STOCKHOLM ACC. Provisions: See ENR 5.1 para 2.3.

Restricted areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R208B KATRINEHOLM	590400N 0154600E - 590400N 0160900E - 585400N 0160900E - 584828N 0153920E - 590113N 0153920E - 590400N 0154600E	FL 195 3000 ft AMSL	Segelflygning i moln. Tillstånd att passera ges av STOCKHOLM ACC. Bestämmelser: Se ENR 5.1 punkt 2.3. Soaring in clouds. Permission to cross shall be obtained from STOCKHOLM ACC. Provisions: See ENR 5.1 para 2.3.
ES R209A BORLÄNGE	610000N 0154800E - 610000N 0165000E - 603317N 0165000E - 605059N 0153802E - 610000N 0154800E	FL 195 3000 ft AMSL	Segelflygning i moln. Tillstånd att passera ges av STOCKHOLM ACC. Bestämmelser: Se ENR 5.1 punkt 2.3. Soaring in clouds. Permission to cross shall be obtained from STOCKHOLM ACC. Provisions: See ENR 5.1 para 2.3.
ES R209B BORLÄNGE	605059N 0153802E - 603317N 0165000E - 601200N 0165000E - 604100N 0152700E - 605059N 0153802E	FL 195 3000 ft AMSL	Segelflygning i moln. Tillstånd att passera ges av STOCKHOLM ACC. Bestämmelser: Se ENR 5.1 punkt 2.3. Soaring in clouds. Permission to cross shall be obtained from STOCKHOLM ACC. Provisions: See ENR 5.1 para 2.3.
ES R210 HEDLANDA	A circle with radius 22 NM centred on 622603N 0133224E	FL 195 FL 95	VFR Segelflygområde upprättas 1 MAR-31 OKT. Tillstånd för passage ska inhämtas från STOCKHOLM ACC. VFR soaring area established 1 MAR-31 OCT. Permission to cross shall be obtained from STOCKHOLM ACC.

3 Farliga områden

3.1 Allmänt

3.1.1 Farliga områden finns upprättade för att skydda luftfartyg från risker till följd av skjutning från marken och från luften, bombfällning, sprängning, målbogsering, verksamhet med obemannat luftfartygssystem (UAS) och annan för luftfart farlig verksamhet.

3.1.2 Farligt område är upprättat H24 om inte annat anges.

3.1.3 Flygning i farligt område bör av flygsäkerhetsskäl undvikas, om inte befälhavaren har förvissat sig om att flygning inom området kan ske utan risk.

Anm. Förutom risk för flygsäkerheten kan flygning i farligt område orsaka icke önskvärda störningar av och avbrott i pågående verksamhet inom området.

Anm. När förhållandena eller arten av verksamhet så kräver, kan föreskrifter utfärdas om hur fara skall undvikas.

3.1.4 Upplysning om pågående farlig verksamhet (skjutning, sprängning) kan inhämtas från den enhet som anges i kolumn 4 i förteckningen över farliga områden.

3.1.5 Sammanfaller farligt område eller del av detta med kontrollerat luftrum, innebär klarering för flygning i det kontrollerade luftrummet även att flygning kan ske utan risk inom av klareringens berörd del av det farliga området.

3.2 Område inom vilket skjutning från marken förekommer

3.2.1 Utöver de risker som orsakas av skjutningen som sådan kan stor kollisionsrisk samtidigt föreligga till följd av flygning med bogserat luftmål inom området. Bogserlinan, som är nästan osynlig i luften, är normalt 600 – 1500 m (2000 – 5000 ft) men i undantagsfall upp till 4500 m (14800 ft) lång. Det bogserade målet ligger vanligen 150 – 300 m (500 – 1000 ft) men i undantagsfall upp till 750 m (2500 ft) under bogserflygplanet.

3.3 Område inom vilket skjutning från luftfartyg mot luftmål förekommer

3.3.1 Vid skjutning mot luftmål förekommer flygning med bogserat luftmål (se punkt 3.2.1) eller flygning med målrobot. Detta bör beaktas även om skjutning tillfälligt har avbrutits.

3.4 Dagbrott

3.4.1 Vid överflygning av dagbrott finns risk för tryckvågor och sprängsplitter.

3.5 Tillfälliga farliga områden

3.5.1 Tillfälligt upprättade farliga områden publiceras genom AIP Supplement och/eller NOTAM.

3 Danger areas

3.1 General

3.1.1 Danger areas are established to protect aircraft from risks caused by firing (ground-to-ground, ground-to-air, air-to-air, air-to-ground), bombing, blasting, target towing, operations with unmanned aircraft system (UAS) and other activities hazardous to aircraft in flight.

3.1.2 Danger areas are established H24 unless otherwise specified.

3.1.3 On flight safety grounds, flight within danger areas should be avoided unless the pilot-in-command has ascertained that the area can be penetrated at no risk.

Note. Apart from encountering hazards to flight safety, flight within danger areas may cause undesirable interferences in and interruptions of the activity in progress within the area.

Note. When the conditions or the type of activity warrant it, provisions may be promulgated as to the avoidance of the hazards.

3.1.4 Information on dangerous activities in progress (firing, blasting) can be obtained from the unit specified in column 4 in the list of danger areas.

3.1.5 If a danger area or portion thereof coincides with a controlled airspace, an ATC clearance pertaining to this controlled airspace also implies that flight can be carried out at no risk within that portion of the danger area concerned by the clearance.

3.2 Areas where ground firing is being practised

3.2.1 In addition to the risks caused by the firing as such, a considerable collision hazard may exist owing to target-towing flights within the area. The tow-cable, being almost invisible in the air, is normally 600 – 1500 m (2000 – 5000 ft) but exceptionally up to 4500 m (14800 ft) long. The target being towed is usually 150 – 300 m (500 – 1000 ft) but exceptionally up to 750 m (2500 ft) below the towing aircraft.

3.3 Areas where air-to-air firing is being practised

3.3.1 In connection with air-to-air firing, target-towing flights (see para 3.2.1) or target missile flights may be carried out. This fact should be considered also when the firing activity has been temporarily interrupted.

3.4 Surface quarries

3.4.1 Aircraft overflying surface quarries are vulnerable to shock-waves and splinters.

3.5 Temporary danger areas

3.5.1 Temporary danger areas will be promulgated by AIP Supplement and/or NOTAM.

3.6 Flight Plan Buffer Zone (FBZ)

FBZ är etablerade enbart med hänsyn till färdplanering. Det är tillåtet att färdplanera fram till gränsen av FBZ när dessa är aktiva. I rutt-beskrivningen i fält 15 ska hänsyn tas till den nominella storcirkeln mellan två punkter i färdplanen. När ett område är aktiverat ska FBZ koordinater användas för IFR färdplanering.

3.7 Område inom vilket flygning sker med obemannade luftfartyg.

3.7.1 Upplysning om pågående verksamhet med obemannat luftfartyg kan inhämtas från den enhet som anges i kolumn 4 i förteckningen över farliga områden.

3.8 Förteckning över farliga områden / List of danger areas

3.6 Flight Plan Buffer Zone (FBZ)

FBZ has been established for IFR flight planning purposes only. Flight plans can be filed up to the boundary of the FBZ when active. The route described in item 15 shall consider the nominal track between two points according to the great circle. When an area is activated use FBZ coordinates for IFR flight planning.

3.7 Area where operations with unmanned aircraft systems takes place.

3.7.1 Information about on-going activities with unmanned aircraft systems can be obtained from the unit specified in column 4 in the list of danger areas.

Danger areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES D138 BORNHOLM NORTH	552959N 0151449E - 552959N 0154949E - 551959N 0154949E - 550300N 0151449E - 552959N 0151449E	20000 ft AMSL — GND	<p>AMC Manageable Area. Se punkt 3.1.1. Begäran om nyttjande lämnas 7 dagar innan start till AMC SWEDEN, via e-post till amc.sweden@lfv.se, med begärd tid, höjd, användare och typ av aktivitet. Planerade aktiviteter kommer att meddelas på NOTAM. Förhandsinformation om aktivitet kan erhållas av AMC SWEDEN, H24, TEL +46 (0)40 613 27 01. Information om pågående verksamhet kan erhållas av MALMÖ ACC. Under skjutningen kommer området att övervakas med radar. Rutter eller nivåer som är fria från området kommer att anvisas av MALMÖ ACC.</p> <p>AMC Manageable Area. See para 3.1.1. Request for allocation to be submitted 7 days prior to AMC SWEDEN, via e-mail to amc.sweden@lfv.se, stating requested HR, levelband, intended user and confirmation of type of activity. Planned activities will be notified by NOTAM. Pre-flight Information about activity can be obtained by AMC SWEDEN, H24, TEL +46 (0)40 613 27 01. In-flight information can be obtained by MALMÖ ACC. During firing the area will be surveilled by radar. Routes or levels that are free of the area will be assigned by MALMÖ ACC.</p>

Danger areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES D139 BORNHOLM EAST	551959N 0154949E - 545500N 0154949E - 545500N 0151449E - 550300N 0151449E - 551959N 0154949E	50000 ft AMSL — GND	<p>AMC Manageable Area. Se punkt 3.1.1. Begäran om nyttjande lämnas 7 dagar innan start till AMC SWEDEN, via e-post till amc.sweden@lfv.se, med begärd tid, höjd, användare och typ av aktivitet. Planerade aktiviteter kommer att meddelas på NOTAM. Förhandsinformation om aktivitet kan erhållas av AMC SWEDEN, H24, TEL +46 (0)40 613 27 01. Information om pågående verksamhet kan erhållas av MALMÖ ACC. Under skjutningen kommer området att övervakas med radar. Rutter eller nivåer som är fria från området kommer att anvisas av MALMÖ ACC.</p> <p>AMC Manageable Area See para 3.1.1. Request for allocation to be submitted 7 days prior to AMC SWEDEN, via e-mail to amc.sweden@lfv.se, stating requested HR, levelband, intended user and confirmation of type of activity. Planned activities will be notified by NOTAM. Pre-flight Information about activity can be obtained by AMC SWEDEN, H24, TEL +46 (0)40 613 27 01. In-flight information can be obtained by MALMÖ ACC. During firing the area will be surveilled by radar. Routes or levels that are free of the area will be assigned by MALMÖ ACC.</p>
ES D155 AITIK	670604N 0205605E - 670557N 0205759E - 670537N 0205929E - 670318N 0210053E - 670233N 0205823E - 670317N 0205508E - 670503N 0205327E - 670604N 0205605E	4000 ft AMSL — GND	<p>Sprängning/Dagbrott. Information om aktivitet ges av Boliden Mineral AB, TEL +46 (0)70 508 39 49 eller +46 (0)970 72 90 53.</p> <p>Blasting/surface quarry. Information about activity obtainable from Boliden Mineral AB, TEL +46 (0)70 508 39 49 or +46 (0)970 72 90 53.</p>
ES D156 LIIKAVAARA	670557N 0205759E - 670535N 0210354E - 670422N 0210430E - 670318N 0210053E - 670537N 0205929E - 670557N 0205759E	4000 ft AMSL — GND	<p>Sprängning/Dagbrott. Upprättat dagligen 1700-2000 (1600-1900). Information om aktivitet ges av Boliden Mineral AB, TEL +46 (0)70 508 39 49 eller +46 (0)970 72 90 53.</p> <p>Blasting/Surface quarry. Established daily 1700-2000 (1600-1900). Information about activity obtainable from Boliden Mineral AB, TEL +46 (0)70 508 39 49 or +46 (0)970 72 90 53.</p>

Danger areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES D160 SKAGEN	582458N 0103451E - 582458N 0104221E - 581528N 0105051E - 575358N 0110251E - 575358N 0110051E - 582458N 0103451E	40500 ft AMSL — GND	Se punkt 3.1.1. Information om pågående verksamhet kan erhållas av MALMÖ ACC. See para 3.1.1. Information about activity obtainable from MALMÖ ACC.
ES D171 HÄRNÖN EAST	623836N 0183946E - 622656N 0183946E - 622656N 0182046E - 623836N 0183946E	40500 ft AMSL — GND	Se punkt 3.1.1. Information om pågående verksamhet kan erhållas av STOCKHOLM ACC. See para 3.1.1. Information about activity obtainable from STOCKHOLM ACC.
ES D175A KOPPARSTENARNA	584023N 0183024E - 583304N 0184849E - 581813N 0180542E - 582943N 0175817E - 583243N 0181147E - 584023N 0183024E	40500 ft AMSL — GND	Se punkt 3.1.1. Information om pågående verksamhet kan erhållas av STOCKHOLM ACC eller MALMÖ ACC. See para 3.1.1. Information about activity obtainable from STOCKHOLM ACC or MALMÖ ACC.
ES D175B KOPPARSTENARNA	585408N 0190132E - 583635N 0185912E - 583304N 0184849E - 584023N 0183024E - 584828N 0185017E - 585408N 0190132E	40500 ft AMSL — GND	Se punkt 3.1.1. Information om pågående verksamhet kan erhållas av STOCKHOLM ACC eller MALMÖ ACC. See para 3.1.1. Information about activity obtainable from STOCKHOLM ACC or MALMÖ ACC.
ES D175C KOPPARSTENARNA	585408N 0190132E - 584328N 0191947E - 583635N 0185912E - 585408N 0190132E	40500 ft AMSL — GND	Se punkt 3.1.1. Information om pågående verksamhet kan erhållas av STOCKHOLM ACC eller MALMÖ ACC. See para 3.1.1. Information about activity obtainable from STOCKHOLM ACC or MALMÖ ACC.
ES D177 KÅGE	A circle with radius 2000 m centred on 645525N 0203544E	4000 ft AMSL — GND	Sprängning/Dagbrott. Information om aktivitet ges av Mandalay Resources Björkdalsgruvan AB, TEL +46 (0)910 725 750. Blasting/surface quarry. Information about activity obtainable from Mandalay Resources Björkdalsgruvan AB, TEL +46 (0)910 725 750.

Danger areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES D178 SALA	A circle with radius 500 m centred on 595430N 0163359E	4500 ft AMSL — GND	Sprängning/Dagbrott. Information om aktivitet ges av Björka Mineral AB, TEL +46 (0)768 23 75 02 eller +46 (0)224 563 92. Blasting/Surface quarry. Information about activity obtainable from Björka Mineral AB, TEL +46 (0)768 23 75 02 or +46 (0)224 563 92.
ES D179 GRUVBERGET/ SVAPPAVAARA	673931N 0205916E - 673931N 0210004E - 673926N 0210029E - 673917N 0210051E - 673812N 0210228E - 673732N 0210138E - 673746N 0210022E - 673845N 0205820E - 673902N 0205812E - 673920N 0205830E - 673931N 0205916E	3000 ft AMSL — GND	Sprängning/Dagbrott. Information om aktivitet ges av LKAB, TEL +46 (0)980 710 01. Blasting/Surface quarry. Information about activity obtainable from LKAB, TEL +46 (0)980 710 01.
ES D180 KAUNISVAARA	672633N 0231821E - 672539N 0232407E - 672333N 0232110E - 672426N 0231551E - 672633N 0231821E	4500 ft AMSL — GND	Sprängning/Dagbrott och UAS. Information om aktivitet ges av Kaunis Iron, TEL +46 (0)72 724 41 48 eller +46 (0)70 283 72 02. Blasting/Surface quarry and UAS. Information about activity obtainable from Kaunis Iron, TEL +46 (0)72 724 41 48 or +46 (0)70 283 72 02.
ES D181 MERTAINEN-KIRUNA	A circle with radius 1 NM centred on 674222N 0204717E	4000 ft AMSL — GND	Sprängning/Dagbrott. Upprättat dagligen 0600-2100 (0500-2000). Information om aktivitet ges av LKAB, TEL +46 (0)705 435 253. Blasting/Surface quarry. Established daily 0600-2100 (0500-2000). Information about activity obtainable from LKAB, TEL +46 (0)705 435 253.
ES D182 SATTAVAARA	A circle with radius 2000 m centred on 675247N 0210353E	UNL — GND	Verksamhet med laser. Information om aktivitet ges av KIRUNA ATS eller STOCKHOLM ACC. Laser activity. Information about activity obtainable from KIRUNA ATS or STOCKHOLM ACC.

Danger areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES D184 BOTHNIA NORTH	652809N 0231158E - 652233N 0235437E - 644100N 0225500E - 635829N 0215742E - 635829N 0211550E - 650137N 0220919E - 645832N 0222344E - 652626N 0230143E - 652809N 0231158E	FL 660 ----- SFC	AMC Manageable Area Området får användas för gränsöverskridande operationer tillsammans med angränsande område i Helsinki FIR enligt avtal med Sverige och Finland mellan FL95 och FL660. Planerade aktiviteter kommer att meddelas av eAUP. Information om aktivitet fås från STOCKHOLM ACC. AMC Manageable Area The area may be used for cross border operations together with adjacent area in Helsinki FIR in accordance with agreements with Sweden and Finland between FL95 and FL660. Planned activities will be notified by eAUP. Information about activity obtainable from STOCKHOLM ACC.
ES D184Z BOTHNIA NORTH	653120N 0231140E - 652509N 0235847E - 644100N 0225500E - 635529N 0215433E - 635529N 0210601E - 650550N 0220520E - 650229N 0222056E - 652849N 0225641E - 653120N 0231140E	FL 660 ----- SFC	Endast för färdplanering IFR. For IFR flight planning purposes only.
ES D185 BOTHNIA SOUTH	635829N 0215742E - 633700N 0213000E - 633619N 0212603E - 634224N 0210302E - 635829N 0211550E - 635829N 0215742E	FL 660 ----- SFC	AMC Manageable Area Området får användas för gränsöverskridande operationer tillsammans med angränsande område i Helsinki FIR enligt avtal med Sverige och Finland mellan FL95 och FL660. Planerade aktiviteter kommer att meddelas av eAUP. Information om aktivitet fås från STOCKHOLM ACC. AMC Manageable Area The area may be used for cross border operations together with adjacent area in Helsinki FIR in accordance with agreements with Sweden and Finland between FL95 and FL660. Planned activities will be notified by eAUP. Information about activity obtainable from STOCKHOLM ACC.
ES D185Z BOTHNIA SOUTH	640129N 0211059E - 640129N 0220231E - 633700N 0213000E - 633458N 0211759E - 634105N 0205449E - 640129N 0211059E	FL 660 ----- SFC	Endast för färdplanering IFR. For IFR flight planning purposes only.

Danger areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES D188 HANÖ WEST	555354N 0150930E - 555353N 0150949E - 553959N 0150949E - 553959N 0143949E - 554609N 0143949E - 554617N 0144032E - 554648N 0144302E - 554719N 0144531E - 554748N 0144756E - 554756N 0145019E - 554804N 0145248E - 554807N 0145332E - 554810N 0145416E - 554815N 0145500E - 554821N 0145543E - 554827N 0145626E - 554835N 0145709E - 554843N 0145751E - 554848N 0145816E - 554855N 0145850E - 554905N 0145931E - 554916N 0150011E - 554927N 0150051E - 554939N 0150130E - 554951N 0150206E - 555000N 0150232E - 555014N 0150310E - 555028N 0150346E - 555043N 0150422E - 555059N 0150457E - 555115N 0150531E - 555132N 0150603E - 555150N 0150635E - 555203N 0150658E - 555214N 0150715E - 555233N 0150744E - 555252N 0150813E - 555312N 0150840E - 555333N 0150905E - 555354N 0150930E	40500 ft AMSL — GND	Se punkt 3.1.1. Information om pågående verksamhet kan erhållas av MALMÖ ACC. See para 3.1.1. Information about activity obtainable from MALMÖ ACC.
ES D189 HANÖ EAST	555353N 0150949E - 555348N 0151111E - 555337N 0151412E - 555323N 0151824E - 555148N 0152103E - 555011N 0152345E - 554835N 0152626E - 554827N 0152640E - 554809N 0152712E - 554752N 0152745E - 554735N 0152818E - 554720N 0152853E - 554705N 0152929E - 554650N 0153005E - 554637N 0153042E - 554624N 0153121E - 554612N 0153200E - 554600N 0153239E - 554550N 0153320E - 554540N 0153401E - 554531N 0153442E - 554523N 0153524E - 554516N 0153607E - 554509N 0153650E - 554504N 0153733E - 554459N 0153817E - 554455N 0153901E - 554452N 0153945E - 554452N 0153949E - 553959N 0153949E - 553959N 0150949E - 555353N 0150949E	40500 ft AMSL — GND	Se punkt 3.1.1. Information om pågående verksamhet kan erhållas av MALMÖ ACC. See para 3.1.1. Information about activity obtainable from MALMÖ ACC.
ES D190 KATTEGATT	574000N 0111251E - 573030N 0112631E - 573030N 0112046E - 574000N 0111251E	9000 ft AMSL — GND	Se punkt 3.1.1. Information om pågående verksamhet kan erhållas av MALMÖ ACC eller LANDVETTER ATS. See para 3.1.1. Information about activity obtainable from MALMÖ ACC or LANDVETTER ATS.
ES D191 TVETA	590956N 0173653E - 590949N 0173806E - 590941N 0173802E - 590929N 0173808E - 590923N 0173751E - 590918N 0173656E - 590926N 0173625E - 590942N 0173647E - 590956N 0173653E	1100 ft AMSL — GND	Sprängning/Dagbrott MÅN-ONS 0500-1730 (0400-1630). TOR 0500-1300 (0400-1200) Information om aktivitet ges av PEAB Anläggning AB, TEL +46 (0)73 337 62 00. Blasting/Surface quarry MON-WED 0500-1730 (0400-1630). THU 0500-1300 (0400-1200) Information about activity obtainable from PEAB Anläggning AB, TEL +46 (0)73 337 62 00.

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
55N 14E	14906	KRIEGERS FLAK	550226.0N 0130239.0E	617	617	F R/FLG W	Wind turbine
	14907	KRIEGERS FLAK	550203.0N 0130535.0E	617	617	F R/FLG W	Wind turbine
	14909	KRIEGERS FLAK	550159.0N 0130014.0E	617	617	F R/FLG W	Wind turbine
	14911	KRIEGERS FLAK	550135.0N 0130617.0E	617	617	F R/FLG W	Wind turbine
	14912	KRIEGERS FLAK	550137.0N 0130315.0E	617	617	F R/FLG W	Wind turbine
	14913	KRIEGERS FLAK	550111.0N 0130655.0E	617	617	F R/FLG W	Wind turbine
	14916	KRIEGERS FLAK	550058.0N 0130122.0E	617	617	F R/FLG W	Wind turbine
	14917	KRIEGERS FLAK	550048.0N 0130337.0E	617	617	F R/FLG W	Wind turbine
	14918	KRIEGERS FLAK	550037.0N 0130616.0E	617	617	F R/FLG W	Wind turbine
	14920	KRIEGERS FLAK	550015.0N 0130256.0E	617	617	F R/FLG W	Wind turbine
	15944	PILEDAL	552743.7N 0135753.9E	331	379	unknown	Wind turbine
	16101	SEGE A	553752.9N 0130242.2E	328	337	unknown	Chimney
	20	KIVIK	554005.0N 0140929.3E	354	923	F R	Mast
	21	GLIMMINGE	553004.5N 0141539.1E	361	587	F R	Mast
	885	LISTERLANDET/BJÖRKENABBEN	555929.4N 0144000.2E	453	458	F R	Mast
	4432	LISTERLANDET/BJÖRKENABBEN	555926.0N 0144001.8E	453	460	F R	Mast
	8606	LYNGBY	555254.2N 0140930.1E	459	482	FLG R	Wind turbine
	8607	LYNGBY	555249.6N 0140954.7E	459	471	FLG R	Wind turbine
	9061	BORRBY	552813.1N 0141013.3E	328	476	F R	Wind turbine
	9626	BORRBY	552821.7N 0141012.0E	331	479	FLG R	Wind turbine
	9803	EVERÖD	555304.2N 0140950.5E	459	476	FLG R	Wind turbine
	9978	GÄRSNÄS	553133.0N 0141127.2E	410	541	FLG R	Wind turbine
	9979	GÄRSNÄS	553144.1N 0141123.1E	410	541	FLG R	Wind turbine
	9980	GÄRSNÄS	553155.1N 0141119.2E	410	558	FLG R	Wind turbine
	9981	GÄRSNÄS	553107.3N 0141053.1E	410	541	FLG R	Wind turbine
	9982	GÄRSNÄS	553117.9N 0141050.8E	410	548	FLG R	Wind turbine
	9983	GÄRSNÄS	553145.5N 0141202.9E	410	541	FLG R	Wind turbine
9984	GÄRSNÄS	553159.1N 0140841.8E	410	591	FLG R	Wind turbine	
9985	GÄRSNÄS	553147.9N 0140853.1E	410	594	FLG R	Wind turbine	
9986	GÄRSNÄS	553155.6N 0140908.1E	410	587	FLG R	Wind turbine	
10701	BORRBY	552814.3N 0141123.7E	328	485	FLG R	Wind turbine	
13646	HAMMENHÖG	552954.7N 0140525.9E	390	571	FLG R	Wind turbine	
13647	HAMMENHÖG	552945.3N 0140541.0E	390	558	FLG R	Wind turbine	
15945	KALSBÄCK	552859.1N 0140902.4E	328	469	unknown	Wind turbine	
16124	EGEHEM	555259.5N 0141015.1E	459	469	FLG R	Wind turbine	
56N 12E	25	HALMSTAD/OSKARSTRÖM	564723.9N 0125616.9E	1066	1550	F R/FLG W	Mast
	26	HÄLSINGBORG	560046.6N 0124244.7E	400	422	F R	Chimney
	750	HELSINGBORG 2	560203.5N 0124137.7E	394	401	F R	Chimney
	5977	KÄRRET	565952.2N 0122902.6E	328	390	F R	Wind turbine
	7623	LÖNHULT	561110.3N 0124213.3E	328	351	F R	Wind turbine
	8347	FALKENBERG	565316.5N 0122755.7E	328	341	F R	Wind turbine
	8732	LÄNGÅS	565946.6N 0122824.6E	410	469	F R	Wind turbine
	8785	LÄNGÅS	565942.8N 0122759.1E	410	469	F R	Wind turbine
	8786	LÄNGÅS	565934.2N 0122809.8E	410	469	F R	Wind turbine
	8787	LÄNGÅS	565937.4N 0122832.9E	410	476	F R	Wind turbine
	9265	MIDDELGRUND	563341.0N 0120616.9E (*)	394	394	F R	Mast
	9394	LINDHULT	565655.4N 0122758.5E	459	509	FLG R	Wind turbine
	9395	LINDHULT	565646.6N 0122815.0E	459	509	FLG R	Wind turbine
	9396	LINDHULT	565637.9N 0122831.5E	459	505	FLG R	Wind turbine
	9397	LINDHULT	565629.1N 0122847.9E	459	503	FLG R	Wind turbine
	10019	TORUP	565513.5N 0125905.5E	492	1049	FLG R	Wind turbine
	10020	TORUP	565525.9N 0125911.2E	492	1100	FLG R	Wind turbine
	10021	TORUP	565539.1N 0125904.7E	492	1079	FLG R	Wind turbine
	10022	TORUP	565553.7N 0125856.8E	492	1102	FLG R	Wind turbine
	10600	VESSIGEBRO	565746.6N 0124438.7E	492	974	FLG R	Wind turbine
10601	VESSIGEBRO	565753.2N 0124505.7E	492	961	FLG R	Wind turbine	
10602	VESSIGEBRO	565756.3N 0124539.9E	492	925	FLG R	Wind turbine	
10603	VESSIGEBRO	565809.7N 0124605.6E	492	873	FLG R	Wind turbine	
10604	VESSIGEBRO	565808.9N 0124527.6E	492	860	FLG R	Wind turbine	
10605	VESSIGEBRO	565805.9N 0124457.6E	492	883	FLG R	Wind turbine	
11245	VESSIGEBRO	565957.6N 0124216.4E	492	863	FLG R	Wind turbine	
11250	VESSIGEBRO	565940.0N 0124359.4E	492	965	FLG R	Wind turbine	

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	11251	VESSIGEBRO	565953.8N 0124348.4E	492	869	FLG R	Wind turbine
	11436	FYLLINGE	563923.2N 0125939.3E	476	728	FLG R	Wind turbine
	11437	FYLLINGE	563903.1N 0125945.7E	476	719	FLG R	Wind turbine
	11503	VESSIGEBRO	565754.5N 0124705.9E	489	886	FLG R	Wind turbine
	11504	VESSIGEBRO	565822.3N 0124723.2E	489	873	FLG R	Wind turbine
	11505	VESSIGEBRO	565809.6N 0124715.2E	489	915	FLG R	Wind turbine
	11506	VESSIGEBRO	565819.5N 0124645.8E	489	873	FLG R	Wind turbine
	11507	VESSIGEBRO	565831.0N 0124652.1E	489	843	FLG R	Wind turbine
	11508	VESSIGEBRO	565833.7N 0124611.2E	489	833	FLG R	Wind turbine
	11509	VESSIGEBRO	565843.9N 0124615.2E	489	935	FLG R	Wind turbine
	11510	VESSIGEBRO	565720.7N 0124434.0E	489	971	FLG R	Wind turbine
	11511	VESSIGEBRO	565731.8N 0124434.2E	489	984	FLG R	Wind turbine
	11512	VESSIGEBRO	565741.0N 0124517.2E	489	1001	FLG R	Wind turbine
	11513	VESSIGEBRO	565731.3N 0124534.5E	489	1024	FLG R	Wind turbine
	11514	VESSIGEBRO	565745.5N 0124557.5E	489	902	FLG R	Wind turbine
	11915	ALERED	565443.7N 0124936.0E	492	1083	FLG R	Wind turbine
	11916	ALERED	565459.9N 0124923.9E	492	1096	FLG R	Wind turbine
	11917	ALERED	565513.9N 0124926.7E	492	1038	FLG R	Wind turbine
	11918	ALERED	565535.4N 0124926.3E	492	1009	FLG R	Wind turbine
	12249	HÖGANÄS	561353.1N 0123433.9E	492	531	FLG R	Wind turbine
	12250	HÖGANÄS	561407.7N 0123433.8E	492	537	FLG R	Wind turbine
	12460	HELSINGBORG	561003.3N 0124610.7E	417	449	FLG R	Wind turbine
	12461	HELSINGBORG	561006.4N 0124547.8E	417	449	FLG R	Wind turbine
	12462	HELSINGBORG	561014.7N 0124603.3E	417	450	FLG R	Wind turbine
	12463	HELSINGBORG	561024.1N 0124614.8E	417	446	FLG R	Wind turbine
	12482	HELSINGBORG	561025.3N 0124552.5E	417	451	FLG R	Wind turbine
	12483	HELSINGBORG	561027.0N 0124531.9E	417	449	FLG R	Wind turbine
	12484	HELSINGBORG	561015.9N 0124535.4E	417	448	FLG R	Wind turbine
	12485	HELSINGBORG	561035.8N 0124604.3E	417	446	FLG R	Wind turbine
	12486	HELSINGBORG	560948.0N 0124610.1E	492	525	FLG R	Wind turbine
	12487	HELSINGBORG	560951.7N 0124547.1E	492	526	FLG R	Wind turbine
	12488	HELSINGBORG	560955.9N 0124524.4E	492	524	FLG R	Wind turbine
	12489	HELSINGBORG	561002.0N 0124503.7E	492	525	FLG R	Wind turbine
	12490	HELSINGBORG	560944.6N 0124501.8E	417	449	FLG R	Wind turbine
	12558	FALKENBERG/ASSARP	565537.0N 0124416.0E	489	863	FLG R	Wind turbine
	12559	FALKENBERG/ABILD	565546.5N 0124450.8E	489	961	FLG R	Wind turbine
	12560	FALKENBERG/ABILD	565542.1N 0124513.6E	489	1024	FLG R	Wind turbine
	12561	FALKENBERG/ABILD	565451.2N 0124508.8E	489	1053	FLG R	Wind turbine
	12562	FALKENBERG/ABILD	565448.0N 0124544.4E	489	948	FLG R	Wind turbine
	12563	FALKENBERG/ABILD	565530.8N 0124556.7E	489	1040	FLG R	Wind turbine
	12564	FALKENBERG/ABILD	565518.6N 0124603.5E	489	1007	FLG R	Wind turbine
	12565	FALKENBERG/ABILD	565504.0N 0124557.2E	489	1014	FLG R	Wind turbine
	12566	FALKENBERG/ABILD	565529.1N 0124639.9E	489	1027	FLG R	Wind turbine
	12567	FALKENBERG/ABILD	565559.8N 0124644.6E	489	1053	FLG R	Wind turbine
	12568	FALKENBERG/ABILD	565602.7N 0124717.5E	489	1063	FLG R	Wind turbine
	12569	FALKENBERG/ABILD	565548.9N 0124733.6E	489	1037	FLG R	Wind turbine
	12947	HÖGANÄS	560909.9N 0123950.7E	476	515	FLG R	Wind turbine
	12948	HÖGANÄS	560852.9N 0123951.5E	476	518	FLG R	Wind turbine
	12998	HELSINGBORG	560313.3N 0124227.5E	404	541	F R	Tower, Chimney
	13069	ÖVRABÖKE	565542.1N 0125404.7E	492	1010	FLG R	Wind turbine
	13070	ÖVRABÖKE	565453.2N 0125356.3E	492	1033	FLG R	Wind turbine
	13071	ÖVRABÖKE	565528.4N 0125624.7E	492	1093	FLG R	Wind turbine
	13072	ÖVRABÖKE	565556.6N 0125526.2E	492	1027	FLG R	Wind turbine
	13073	ÖVRABÖKE	565515.4N 0125351.5E	492	951	FLG R	Wind turbine
	13074	ÖVRABÖKE	565602.1N 0125552.6E	492	1043	FLG R	Wind turbine
	13075	ÖVRABÖKE	565543.8N 0125611.9E	492	1089	FLG R	Wind turbine
	13076	ÖVRABÖKE	565524.1N 0125419.1E	492	994	FLG R	Wind turbine
	14108	DIGESHULT	565506.4N 0125742.4E	328	922	F R	Mast
	16142	SÖRGÅRDEN	560944.3N 0123746.5E	328	352	unknown	Wind turbine
	16143	SÖDRA INGELSTRÅDE	560954.4N 0123738.3E	328	353	unknown	Wind turbine
	16144	SÖDRA INGELSTRÅDE	560955.0N 0123801.1E	328	354	unknown	Wind turbine
56N 13E	1050	HYLTE	565841.0N 0131004.3E	344	787	F R	Mast

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	10628	RYSSBY	565234.1N 0140718.5E	394	929	F R	Mast
	10654	SÖLVESBORG	560254.9N 0143812.1E	456	466	FLG R	Wind turbine
	10655	SÖLVESBORG	560257.1N 0143750.6E	456	469	FLG R	Wind turbine
	10680	MJÄLLBY	560146.3N 0144008.3E	456	482	FLG R	Wind turbine
	10759	RINKABY	560020.3N 0141925.6E	459	495	FLG R	Wind turbine
	10760	RINKABY	560009.4N 0141944.8E	459	499	FLG R	Wind turbine
	11084	EKESTAD	560744.9N 0141313.5E	482	669	FLG R	Wind turbine
	11085	EKESTAD	560758.4N 0141327.8E	482	787	FLG R	Wind turbine
	11086	EKESTAD	560810.9N 0141334.8E	482	787	FLG R	Wind turbine
	11087	EKESTAD	560822.8N 0141333.7E	482	725	FLG R	Wind turbine
	11088	EKESTAD	560835.0N 0141321.8E	482	702	FLG R	Wind turbine
	11440	ARKELSTORP	561110.1N 0141825.1E	476	902	FLG R	Wind turbine
	12074	YSANE	560520.1N 0144009.7E	492	509	FLG R	Wind turbine
	12075	YSANE	560513.9N 0144028.1E	492	505	FLG R	Wind turbine
	12117	KRISTIANSTAD	560035.7N 0141615.0E	476	509	FLG R	Wind turbine
	12118	KRISTIANSTAD	560038.5N 0141638.0E	476	512	FLG R	Wind turbine
	12906	RYD	562553.1N 0144612.5E	400	840	F R	Mast
	14417	MÖRRUM	560941.4N 0144548.3E	361	379	F R	Chimney
	14464	ALVESTA	565338.5N 0142031.9E	689	1312	FLG W	Wind turbine
	14465	ALVESTA	565314.8N 0142010.0E	689	1296	FLG R	Wind turbine
	14466	ALVESTA	565248.4N 0141820.1E	689	1263	FLG W	Wind turbine
	14467	ALVESTA	565248.8N 0141913.8E	689	1280	FLG R	Wind turbine
	14468	ALVESTA	565252.8N 0142004.0E	689	1306	FLG R	Wind turbine
	14469	ALVESTA	565226.1N 0141851.8E	689	1312	FLG R	Wind turbine
	14470	ALVESTA	565230.0N 0142022.1E	689	1345	FLG R	Wind turbine
	14471	ALVESTA	565156.5N 0141825.4E	689	1296	FLG W	Wind turbine
	14472	ALVESTA	565207.4N 0142003.8E	689	1358	FLG R	Wind turbine
	14473	ALVESTA	565154.7N 0141915.7E	689	1362	FLG R	Wind turbine
	14474	ALVESTA	565133.0N 0141910.6E	689	1329	FLG R	Wind turbine
	14475	ALVESTA	565139.4N 0142005.1E	689	1322	FLG R	Wind turbine
	14476	ALVESTA	565109.3N 0141848.6E	689	1329	FLG W	Wind turbine
	14477	ALVESTA	565114.5N 0141941.5E	689	1329	FLG R	Wind turbine
	14478	ALVESTA	565115.5N 0142031.7E	689	1293	FLG W	Wind turbine
	14479	ALVESTA	565149.9N 0142101.4E	689	1329	FLG R	Wind turbine
	14480	ALVESTA	565214.7N 0142103.8E	689	1355	FLG R	Wind turbine
	14481	ALVESTA	565208.8N 0142213.7E	689	1345	FLG W	Wind turbine
	14482	ALVESTA	565241.5N 0142307.9E	689	1378	FLG R	Wind turbine
	14483	ALVESTA	565300.1N 0142335.2E	689	1345	FLG W	Wind turbine
	14484	ALVESTA	565314.5N 0142324.6E	689	1348	FLG R	Wind turbine
	14485	ALVESTA	565330.6N 0142324.3E	689	1362	FLG W	Wind turbine
	15332	RYD	562800.3N 0143624.9E	656	1171	FLG W	Wind turbine
	15333	RYD	562745.8N 0144000.3E	656	1152	FLG W	Wind turbine
	15334	RYD	562652.1N 0143934.3E	656	1155	FLG W	Wind turbine
	15335	RYD	562726.5N 0143933.7E	656	1171	F R	Wind turbine
	15336	RYD	562719.4N 0143901.8E	656	1155	F R	Wind turbine
	15337	RYD	562708.6N 0143925.8E	656	1158	F R	Wind turbine
	15338	RYD	562703.8N 0143856.7E	656	1155	FLG W	Wind turbine
	15339	RYD	562850.7N 0143625.2E	656	1168	FLG W	Wind turbine
56N 15E	16173	KRINGLEGYL	562728.8N 0143936.3E	456	968	unknown	Mast
	62	TORHAMN 1	560823.5N 0154952.5E	361	454	F R	Mast
	63	TORHAMN 2	560554.7N 0155158.0E	344	356	F R	Mast
	67	EMMABODA/BÄLSHULT	564622.8N 0153449.6E	1066	1758	FLG W	Mast
	71	TINGSRYD 1	563120.4N 0150327.1E	331	959	F R	Mast
	72	TVING	561630.2N 0152916.4E	702	797	F R/FLG W	Mast, Note: Support cables within radius 300 m.
	1766	BACKARYD	562135.7N 0151037.4E	341	704	F R	Mast
	2376	EMMABODA	563903.5N 0153129.5E	377	863	F R/FLG W	Mast
	9285	BRÄNTEKNUVA	561512.1N 0153217.9E	328	550	FLG R	Wind turbine
	9426	RAMDALA	561032.4N 0154527.6E	463	479	FLG R	Wind turbine
	9427	RAMDALA	561041.9N 0154514.2E	463	479	FLG R	Wind turbine
	9601	HULTET	562228.8N 0154536.0E	492	820	FLG R	Wind turbine
	9602	HULTET	562248.4N 0154525.3E	492	837	FLG R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	9603	HULTET	562236.8N 0154507.7E	492	833	FLG R	Wind turbine
	9604	HULTET	562259.6N 0154504.5E	492	824	FLG R	Wind turbine
	9605	HULTET	562256.9N 0154546.8E	492	820	FLG R	Wind turbine
	10356	ORREFORS	564810.1N 0154037.0E	558	1142	FLG W	Wind turbine
	10357	ORREFORS	564826.1N 0154019.7E	558	1142	F R	Wind turbine
	10358	ORREFORS	564847.1N 0153954.1E	558	1165	F R	Wind turbine
	10359	ORREFORS	564857.5N 0153920.5E	558	1194	FLG W	Wind turbine
	10360	ORREFORS	564916.6N 0153912.0E	558	1211	F R	Wind turbine
	10361	ORREFORS	564931.9N 0153908.1E	558	1204	F R	Wind turbine
	10362	ORREFORS	564952.1N 0153916.7E	558	1188	FLG W	Wind turbine
	10363	ORREFORS	564943.2N 0153938.0E	558	1178	F R	Wind turbine
	10364	ORREFORS	565004.1N 0153937.9E	558	1188	F R	Wind turbine
	10365	ORREFORS	564955.8N 0154011.6E	558	1158	FLG W	Wind turbine
	10469	TORSÅS	562325.6N 0155701.9E	476	607	FLG R	Wind turbine
	10470	TORSÅS	562255.7N 0155555.7E	476	614	FLG R	Wind turbine
	10471	TORSÅS	562313.8N 0155634.4E	476	620	FLG R	Wind turbine
	10472	TORSÅS	562229.5N 0155433.9E	476	666	FLG R	Wind turbine
	10473	TORSÅS	562246.0N 0155520.9E	476	630	FLG R	Wind turbine
	10474	TORSÅS	562304.4N 0155511.4E	489	659	FLG R	Wind turbine
	10866	BRÅKNE-HOBY	561213.2N 0150855.0E	492	659	FLG R	Wind turbine
	10867	BRÅKNE-HOBY	561218.7N 0150921.3E	492	667	FLG R	Wind turbine
	10868	BRÅKNE-HOBY	561212.9N 0150953.2E	492	646	FLG R	Wind turbine
	10869	BRÅKNE-HOBY	561222.9N 0151028.8E	492	655	FLG R	Wind turbine
	10870	BRÅKNE-HOBY	561144.8N 0150850.9E	492	607	FLG R	Wind turbine
	10871	BRÅKNE-HOBY	561202.5N 0150923.9E	492	653	FLG R	Wind turbine
	10872	BRÅKNE-HOBY	561153.6N 0150946.8E	492	627	FLG R	Wind turbine
	10873	BRÅKNE-HOBY	561158.9N 0151014.9E	492	633	FLG R	Wind turbine
	11066	KARLSKRONA	561027.2N 0153605.5E	413	520	F R	Mast
	11075	TOKEBO	565309.3N 0154434.8E	574	1145	F R/FLG W	Wind turbine
	11077	TOKEBO	565313.9N 0154409.7E	574	1148	F R/FLG W	Wind turbine
	11078	TOKEBO	565337.2N 0154417.1E	574	1146	F R/FLG W	Wind turbine
	11079	TOKEBO	565349.6N 0154358.3E	574	1154	F R/FLG W	Wind turbine
	11080	TOKEBO	565401.7N 0154330.9E	574	1160	F R/FLG W	Wind turbine
	11081	TOKEBO	565411.9N 0154305.5E	574	1183	F R/FLG W	Wind turbine
	11082	TOKEBO	565423.0N 0154241.3E	574	1171	F R/FLG W	Wind turbine
	11446	VÄBYNÅS	561011.1N 0150554.6E	492	588	FLG R	Wind turbine
	11652	TORSÅS	562608.6N 0155656.2E	482	597	FLG R	Wind turbine
	11653	TORSÅS	562603.1N 0155604.6E	482	614	FLG R	Wind turbine
	11654	TORSÅS	562603.4N 0155632.1E	482	604	FLG R	Wind turbine
	11655	TORSÅS	562605.7N 0155538.8E	482	620	FLG R	Wind turbine
	11669	TORSÅS	562549.6N 0155549.6E	482	622	FLG R	Wind turbine
	11670	TORSÅS	562550.9N 0155620.0E	482	608	FLG R	Wind turbine
	12956	KARLSKRONA	561127.3N 0154325.2E	476	600	FLG R	Wind turbine
	15312	KARLSKRONA	561009.5N 0153813.1E	499	510	FLG W	Tower
	15341	FURUBY	565053.8N 0150707.5E	722	1437	FLG W	Wind turbine
	15342	FURUBY	565046.8N 0150621.6E	722	1457	FLG R	Wind turbine
	15343	FURUBY	565059.2N 0150549.5E	722	1467	FLG R	Wind turbine
	15344	FURUBY	565137.1N 0150557.3E	722	1499	FLG R	Wind turbine
	15345	FURUBY	565156.4N 0150644.2E	722	1483	FLG R	Wind turbine
	15346	FURUBY	565204.7N 0150733.0E	722	1450	FLG R	Wind turbine
	15347	FURUBY	565154.1N 0150835.3E	722	1463	FLG R	Wind turbine
	15348	FURUBY	565152.6N 0150934.6E	722	1430	FLG R	Wind turbine
	15349	FURUBY	565148.9N 0151016.4E	722	1414	FLG R	Wind turbine
	15350	FURUBY	565141.0N 0151057.8E	722	1447	FLG R	Wind turbine
	17464	KARLSKRONA	560959.7N 0153819.4E	673	689	FLG W	Tower
56N 16E	83	BORGHOLM	565008.4N 0164340.3E	354	473	F R	Mast
	84	ÖLANDS SÖ UDDE	561401.1N 0162717.9E	358	385	F R	Mast
	1083	BORGHOLM	565116.9N 0164214.6E	338	451	F R	Mast
	1243	TORSÅS	562347.5N 0160005.4E	338	422	F R	Mast
	3632	NORRA MÖCKLEBY	564058.0N 0163352.6E	495	649	F R/FLG W	Mast
	6964	KROKA	562641.1N 0160529.6E	328	354	F R	Wind turbine
	7671	ROCKNEBY	564907.5N 0162051.5E	328	377	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	8468	STORA ISTAD	565628.4N 0164936.4E	390	430	F R	Wind turbine
	8469	STORA ISTAD	565619.8N 0164924.8E	390	433	F R	Wind turbine
	8470	STORA ISTAD	565611.1N 0164913.2E	390	433	F R	Wind turbine
	8471	STORA ISTAD	565602.6N 0164901.7E	390	430	F R	Wind turbine
	8472	STORA ISTAD	565553.9N 0164850.1E	390	430	F R	Wind turbine
	8662	SÖDERÅKRA	562546.8N 0160227.1E	328	371	F R	Wind turbine
	9009	BREDSÅTTRA	565042.7N 0165115.4E	328	341	F R	Wind turbine
	9136	BORGHOLM	565231.9N 0164821.9E	331	381	F R	Wind turbine
	9137	BORGHOLM	565240.8N 0164821.8E	331	381	F R	Wind turbine
	9138	BORGHOLM	565249.7N 0164821.7E	331	387	F R	Wind turbine
	9139	BORGHOLM	565258.5N 0164821.5E	331	389	F R	Wind turbine
	9275	BLOMSTERMÅLA	565826.6N 0161135.3E	331	542	F R	Mast
	9435	PÅBODA	562547.4N 0160517.2E	463	489	FLG R	Wind turbine
	9436	PÅBODA	562559.1N 0160511.4E	463	489	FLG R	Wind turbine
	9457	GÄRDSLÖSA	564712.4N 0164255.6E	390	466	FLG R	Wind turbine
	9458	GÄRDSLÖSA	564725.8N 0164255.9E	390	459	FLG R	Wind turbine
	9459	GÄRDSLÖSA	564739.2N 0164256.3E	390	459	FLG R	Wind turbine
	9469	GÄRDSLÖSA	564753.2N 0164256.7E	390	463	FLG R	Wind turbine
	9470	GÄRDSLÖSA	564806.0N 0164257.0E	394	472	FLG R	Wind turbine
	9505	BORGHOLM	565223.1N 0164822.0E	331	387	F R	Wind turbine
	9813	BREDSÅTTRA / LÅNGÖRE	565053.3N 0165111.3E	328	344	FLG R	Wind turbine
	9828	BREDSÅTTRA	565102.8N 0165107.8E	328	341	FLG R	Wind turbine
	9933	BLOMSTERMÅLA	565729.9N 0161517.8E	492	643	FLG R	Wind turbine
	9934	BLOMSTERMÅLA	565742.8N 0161411.8E	492	673	FLG R	Wind turbine
	9935	BLOMSTERMÅLA	565725.5N 0161424.1E	492	673	FLG R	Wind turbine
	9936	BLOMSTERMÅLA	565713.0N 0161522.1E	492	659	FLG R	Wind turbine
	9937	BLOMSTERMÅLA	565704.2N 0161432.3E	492	660	FLG R	Wind turbine
	9938	BLOMSTERMÅLA	565627.6N 0161412.2E	492	659	FLG R	Wind turbine
	9939	BLOMSTERMÅLA	565650.2N 0161411.7E	492	633	FLG R	Wind turbine
	9940	BLOMSTERMÅLA	565642.6N 0161445.4E	492	646	FLG R	Wind turbine
	10071	STORA ISTAD	565545.8N 0164839.2E	397	432	FLG R	Wind turbine
	10073	STORA ISTAD	565528.1N 0164815.3E	397	436	FLG R	Wind turbine
	10111	GÄRDSLÖSA	564659.3N 0164255.3E	390	466	FLG R	Wind turbine
	10171	RÅLLA	564432.7N 0163425.2E	390	535	FLG R	Wind turbine
	10172	HÖGSRUM	564442.3N 0163441.9E	394	530	FLG R	Wind turbine
	10173	RÅLLA	564451.4N 0163457.8E	390	525	FLG R	Wind turbine
	10174	RÅLLA	564501.4N 0163515.1E	394	530	FLG R	Wind turbine
	10175	RÅLLA	564510.8N 0163531.4E	390	531	FLG R	Wind turbine
	10426	BORGHOLM	565008.1N 0164111.5E	410	499	FLG R	Wind turbine
	10427	BORGHOLM	565020.7N 0164115.2E	410	502	FLG R	Wind turbine
	10428	BORGHOLM	565033.8N 0164119.1E	410	499	FLG R	Wind turbine
	10429	BORGHOLM	565046.7N 0164122.9E	410	492	FLG R	Wind turbine
	10599	BLOMSTERMÅLA	565819.4N 0161630.2E	574	715	FLG W	Wind turbine
	10653	PÅBODA	562502.4N 0160332.0E	328	381	FLG R	Wind turbine
	10656	SÖDERÅKRA	562553.4N 0160243.1E	328	354	FLG R	Wind turbine
	10768	VASSMOLÖSA	563657.2N 0160919.3E	476	538	FLG R	Wind turbine
	10769	VASSMOLÖSA	563648.8N 0160859.7E	476	518	FLG R	Wind turbine
	10770	VASSMOLÖSA	563637.9N 0160845.6E	476	536	FLG R	Wind turbine
	10771	VASSMOLÖSA	563626.4N 0160834.1E	476	522	FLG R	Wind turbine
	10772	VASSMOLÖSA	563612.8N 0160836.4E	476	526	FLG R	Wind turbine
	10782	BORGHOLM	565231.6N 0164755.8E	394	451	FLG R	Wind turbine
	10783	BORGHOLM	565240.5N 0164755.7E	394	450	FLG R	Wind turbine
	10784	BORGHOLM	565249.4N 0164755.7E	394	453	FLG R	Wind turbine
	10785	BORGHOLM	565258.4N 0164755.8E	394	452	FLG R	Wind turbine
	10786	BORGHOLM	565307.2N 0164755.7E	394	454	FLG R	Wind turbine
	10857	ROCKNEBY	565022.2N 0161918.7E	476	548	FLG R	Wind turbine
	10858	ROCKNEBY	565000.0N 0162001.4E	476	552	FLG R	Wind turbine
	10859	ROCKNEBY	565011.2N 0161939.5E	476	568	FLG R	Wind turbine
	10860	ROCKNEBY	564939.2N 0162012.5E	476	545	FLG R	Wind turbine
	10861	ROCKNEBY	564941.4N 0162041.2E	476	541	FLG R	Wind turbine
	11101	MORTORP	563518.9N 0160134.3E	492	659	FLG R	Wind turbine
	11102	MORTORP	563502.5N 0160128.3E	492	654	FLG R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	11334	LERKAKA	564335.4N 0164140.9E	410	476	FLG R	Wind turbine
	11335	LERKAKA	564322.5N 0164133.7E	410	472	FLG R	Wind turbine
	11336	LERKAKA	564309.7N 0164126.3E	410	469	FLG R	Wind turbine
	11337	LERKAKA	564256.7N 0164119.3E	410	476	FLG R	Wind turbine
	11338	LERKAKA	564244.0N 0164112.1E	410	482	FLG R	Wind turbine
	11675	MORTORP	563514.1N 0160100.4E	482	647	FLG R	Wind turbine
	11677	MORTORP	563513.4N 0160202.9E	482	650	FLG R	Wind turbine
	11678	MORTORP	563541.5N 0160102.1E	482	647	FLG R	Wind turbine
	11679	MORTORP	563528.3N 0160110.9E	482	659	FLG R	Wind turbine
	12088	BERGKVARA	562435.7N 0160441.8E	492	525	FLG R	Wind turbine
	12089	TORSÄS	562452.2N 0160441.9E	492	518	FLG R	Wind turbine
	12524	BLOMSTERMÅLA	565817.9N 0161214.4E	627	906	FLG W	Wind turbine
	12525	BLOMSTERMÅLA	565750.0N 0161313.9E	627	869	FLG W	Wind turbine
	12526	BLOMSTERMÅLA	565559.8N 0161445.6E	627	797	FLG W	Wind turbine
	12527	BLOMSTERMÅLA	565748.2N 0161620.4E	627	791	FLG W	Wind turbine
	12528	BLOMSTERMÅLA	565811.1N 0161532.8E	627	807	F R	Wind turbine
	12529	BLOMSTERMÅLA	565808.7N 0161437.1E	627	804	F R	Wind turbine
	12530	BLOMSTERMÅLA	565841.8N 0161531.8E	627	807	F R	Wind turbine
	12531	BLOMSTERMÅLA	565907.0N 0161551.1E	627	791	FLG W	Wind turbine
	12532	BLOMSTERMÅLA	565805.7N 0161705.0E	627	794	F R	Wind turbine
	12533	BLOMSTERMÅLA	565802.6N 0161818.4E	627	764	FLG W	Wind turbine
	12534	BLOMSTERMÅLA	565743.5N 0161854.6E	627	748	FLG W	Wind turbine
	12535	BLOMSTERMÅLA	565702.4N 0162000.9E	627	722	F R	Wind turbine
	12536	BLOMSTERMÅLA	565638.3N 0162028.6E	627	725	FLG W	Wind turbine
	12537	BLOMSTERMÅLA	565708.1N 0162044.8E	627	715	FLG W	Wind turbine
	14449	LJUNGBYHOLM	563944.8N 0160110.6E	656	853	FLG R	Wind turbine
	14450	LJUNGBYHOLM	563953.4N 0160139.6E	656	830	F R	Wind turbine
	14451	LJUNGBYHOLM	563958.5N 0160211.7E	656	827	FLG R	Wind turbine
	14452	LJUNGBYHOLM	563951.3N 0160242.9E	656	810	F R	Wind turbine
	14453	LJUNGBYHOLM	563934.2N 0160327.4E	656	807	FLG W	Wind turbine
	14454	LJUNGBYHOLM	563939.9N 0160407.5E	656	794	FLG W	Wind turbine
	14455	LJUNGBYHOLM	563950.2N 0160434.7E	656	797	FLG W	Wind turbine
	14456	LJUNGBYHOLM	563955.5N 0160526.9E	656	784	F R	Wind turbine
	14457	LJUNGBYHOLM	563942.4N 0160501.8E	656	794	FLG W	Wind turbine
	14458	LJUNGBYHOLM	563948.5N 0160606.5E	656	774	F R	Wind turbine
	14459	LJUNGBYHOLM	563954.5N 0160637.3E	656	764	F R	Wind turbine
	14460	LJUNGBYHOLM	563952.9N 0160712.9E	656	764	FLG W	Wind turbine
	15315	ALGUTSRUM	564039.5N 0163403.7E	489	627	FLG R	Mast
56N 17E	11287	YTTERGRUND	565953.3N 0170021.2E (*)	446	446	FLG R	Wind turbine
	11290	YTTERGRUND	565940.5N 0170022.7E (*)	446	446	FLG R	Wind turbine
	11291	YTTERGRUND	565929.2N 0170027.8E (*)	446	446	FLG R	Wind turbine
	11292	YTTERGRUND	565917.9N 0170033.4E (*)	446	446	FLG R	Wind turbine
	11293	YTTERGRUND	565907.0N 0170041.1E (*)	446	446	FLG R	Wind turbine
	11294	YTTERGRUND	565857.3N 0170053.4E (*)	446	446	FLG R	Wind turbine
	11295	YTTERGRUND	565848.8N 0170108.1E (*)	446	446	FLG R	Wind turbine
	11296	YTTERGRUND	565840.7N 0170123.7E (*)	446	446	FLG R	Wind turbine
	11297	YTTERGRUND	565825.6N 0170156.4E (*)	446	446	FLG R	Wind turbine
	11298	YTTERGRUND	565819.4N 0170213.6E (*)	446	446	FLG R	Wind turbine
	11299	YTTERGRUND	565812.4N 0170231.9E (*)	446	446	FLG R	Wind turbine
	11300	YTTERGRUND	565806.3N 0170250.3E (*)	446	446	FLG R	Wind turbine
	11332	YTTERGRUND	565833.1N 0170140.0E (*)	446	446	FLG R	Wind turbine
56N 18E	154	SUNDRE	565610.9N 0181316.6E	371	467	F R	Mast
	1017	FALUDDEN	565943.6N 0182316.9E	653	671	F R/FLG W	Mast, 40 per min.
57N 11E	86	GÖTEBORG/BRÄCKE	574202.1N 0115243.3E	377	401	F R	Chimney
	88	GÖTEBORG/SKEPPSBRON	574210.7N 0115718.1E	361	369	-	Chimney
	89	GÖTEBORG/ÄLVSBOGSBRON	574132.9N 0115402.4E	374	373	F R	Tower, Chimney
	862	GÖTEBORG/MÖLNDAL	573822.6N 0115951.3E	351	420	F R	Chimney
	902	GÖTEBORG/RYA	574140.9N 0115324.6E	328	369	F R	Chimney
	3565	GÖTEBORGS HAMN	574118.1N 0115134.3E	394	393	F R	Crane
	3566	GÖTEBORGS HAMN	574118.6N 0115104.0E	331	340	F R	Crane
	10480	KODE	575529.8N 0115216.4E	492	703	FLG R	Wind turbine
	12713	GÖTEBORG/ÄLVSBOGSBRON	574120.1N 0115410.3E	364	374	F R	Bridge

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
57N 12E	15340	GÖTEBORG	574235.0N 0115621.0E	804	817	F R/FLG W	Building
	16198	VÄSTRA FRÖLUNDA KA	573849.8N 0115533.1E	328	345	unknown	Mast
	16199	RÖDJAN	574134.0N 0115327.9E	328	368	unknown	Chimney
	16203	ÄLVSBORGSFJORDEN	574118.1N 0115120.4E	394	393	F R	Crane
	16204	ÄLVSBORGSFJORDEN	574118.1N 0115125.9E	394	393	F R	Crane
	16205	ÄLVNABBEN	574117.9N 0115141.8E	420	424	unknown	Crane
	16207	LISEBERG	574143.3N 0115926.7E	397	486	unknown	Tower
	97	GÖTEBORG/BRUDAREMOSEN	574139.5N 0120332.0E	1093	1459	F R/FLG W	Mast
	100	RINGHALS	571543.6N 0120641.7E	364	373	F R	Chimney
	106	GRIMETON 1	570601.3N 0122253.4E	433	559	F R	Mast
	110	VÄRÖ/BUA	571325.5N 0121020.3E	397	420	F R	Chimney
	711	RINGHALS 1	571506.5N 0120635.8E	341	387	F R	Mast
	1005	LINDOME	573621.4N 0120631.4E	394	615	F R	Mast
	1213	GÖTEBORG/SÄVENÄS	574347.3N 0120207.1E	351	382	F R	Chimney
	1456	GÖTEBORG/PARTILLE	574354.4N 0120311.0E	417	445	F R	Chimney
	1463	GÖTEBORG/ST BRATTÄS	574554.7N 0120407.8E	371	698	F R	Mast
	1659	KINNA	573004.0N 0123514.6E	348	826	F R	Mast
	1700	BORÄS	574333.9N 0125612.6E	344	775	-	Chimney
	3531	GRIMETON	570610.5N 0122308.1E	417	531	-	Mast
	3532	GRIMETON	570619.7N 0122323.0E	420	521	-	Mast
	3533	GRIMETON	570628.9N 0122337.8E	417	510	-	Mast
	3534	GRIMETON	570638.2N 0122352.7E	417	507	-	Mast
	3535	GRIMETON	570647.5N 0122407.7E	420	526	F R	Mast
	3536	GRIMETON	570631.5N 0122325.9E	860	973	F R/FLG W	Mast
	4884	GÖTEBORG/BRUDAREMOSEN	574138.4N 0120331.4E	571	942	-	Mast
	8365	TVÅÅKER	570207.3N 0122250.7E	410	446	FLG R	Wind turbine
	8366	TVÅÅKER	570217.4N 0122241.0E	410	449	FLG R	Wind turbine
	8367	TVÅÅKER	570227.4N 0122231.4E	410	449	FLG R	Wind turbine
	9222	LÄNGÅS	570034.0N 0122629.6E	492	558	FLG R	Wind turbine
	9223	LÄNGÅS	570028.4N 0122650.2E	492	558	FLG R	Wind turbine
	9224	LÄNGÅS	570022.8N 0122710.8E	492	561	FLG R	Wind turbine
	9225	LÄNGÅS	570017.2N 0122731.2E	492	543	FLG R	Wind turbine
	9226	LÄNGÅS	570011.3N 0122752.7E	492	558	FLG R	Wind turbine
	9364	GÖTEBORG	574744.0N 0120123.0E	400	755	FLG R	Wind turbine
	9376	TVÅÅKER	570314.1N 0122154.2E	390	466	F R	Wind turbine
	9377	TVÅÅKER	570325.0N 0122146.3E	390	479	F R	Wind turbine
	10118	TVÅÅKER	570301.0N 0122931.7E	492	932	FLG R	Wind turbine
	10119	TVÅÅKER	570253.1N 0122951.0E	492	935	FLG R	Wind turbine
	10120	TVÅÅKER	570242.6N 0122932.6E	492	961	FLG R	Wind turbine
	10121	TVÅÅKER	570252.8N 0122912.6E	492	961	FLG R	Wind turbine
	10122	TVÅÅKER	570249.3N 0122846.2E	492	827	FLG R	Wind turbine
	10594	FJÄRÄS KYRKBY	572458.3N 0121355.6E	476	846	FLG R	Wind turbine
	10595	FJÄRÄS KYRKBY	572502.4N 0121420.8E	476	853	FLG R	Wind turbine
	10596	FJÄRÄS KYRKBY	572524.9N 0121441.5E	476	820	FLG R	Wind turbine
	10597	FJÄRÄS KYRKBY	572544.3N 0121427.4E	476	837	FLG R	Wind turbine
	10648	SKEPHULT	573154.0N 0125141.0E	492	984	FLG R	Wind turbine
	10675	ÖVERLIDA	572056.8N 0125025.8E	443	1079	FLG R	Wind turbine
	10676	ÖVERLIDA	572041.9N 0125029.0E	443	1111	FLG R	Wind turbine
	11097	BRÄTAGÄRDE	570543.1N 0124358.8E	394	851	F R	Mast
	11246	VESSIGEBRO	570031.1N 0124220.8E	492	1033	FLG R	Wind turbine
	11247	VESSIGEBRO	570044.8N 0124224.6E	492	1010	FLG R	Wind turbine
	11248	VESSIGEBRO	570056.6N 0124211.8E	492	1014	FLG R	Wind turbine
	11249	VESSIGEBRO	570111.8N 0124220.9E	492	935	FLG W	Wind turbine
	11252	VESSIGEBRO	570026.4N 0124331.7E	492	860	FLG R	Wind turbine
	11253	VESSIGEBRO	570034.1N 0124404.8E	492	879	FLG R	Wind turbine
	11254	VESSIGEBRO	570032.4N 0124432.2E	492	981	FLG R	Wind turbine
	11544	ÅSBY	571247.9N 0121707.4E	492	783	FLG R	Wind turbine
11545	ÅSBY	571236.2N 0121650.6E	492	774	FLG R	Wind turbine	
11546	ÅSBY	571224.1N 0121636.7E	492	790	FLG R	Wind turbine	
11547	ÅSBY	571212.7N 0121621.4E	492	788	FLG R	Wind turbine	
11548	ÅSBY	571159.3N 0121608.0E	492	781	FLG R	Wind turbine	
11549	ÅSBY	571147.4N 0121554.2E	492	745	FLG R	Wind turbine	

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	11688	FRILLESÅS	572001.3N 0121200.2E	456	587	FLG R	Wind turbine
	12755	GÄLLINGE	572311.5N 0121208.7E	492	804	FLG R	Wind turbine
	12756	GÄLLINGE	572258.7N 0121210.3E	492	820	FLG R	Wind turbine
	12757	GÄLLINGE	572308.2N 0121233.0E	492	810	FLG R	Wind turbine
	12758	GÄLLINGE	572304.9N 0121258.7E	492	827	FLG R	Wind turbine
	12759	GÄLLINGE	572250.2N 0121303.5E	492	815	FLG R	Wind turbine
	12760	GÄLLINGE	572236.4N 0121306.0E	492	804	FLG R	Wind turbine
	12761	GÄLLINGE	572222.5N 0121309.3E	492	833	FLG R	Wind turbine
	12762	GÄLLINGE	572207.8N 0121310.3E	492	860	FLG R	Wind turbine
	13059	KÄLLERED	573559.8N 0120341.4E	367	541	F R	Mast
	14984	ALINGSÅS	575907.7N 0123237.9E	656	1237	F R	Wind turbine
	14985	ALINGSÅS	575940.6N 0123303.2E	656	1266	FLG W	Wind turbine
	14986	ALINGSÅS	575921.3N 0123315.7E	656	1224	FLG W	Wind turbine
	14987	ALINGSÅS	575810.7N 0122942.6E	656	1253	FLG W	Wind turbine
	14988	ALINGSÅS	575856.9N 0122929.2E	656	1280	FLG W	Wind turbine
	14989	ALINGSÅS	575849.7N 0122956.4E	656	1276	FLG W	Wind turbine
	14990	ALINGSÅS	575826.1N 0123047.9E	656	1211	FLG W	Wind turbine
	14991	ALINGSÅS	575911.1N 0123000.8E	656	1283	F R	Wind turbine
	14992	ALINGSÅS	575900.1N 0123026.1E	656	1276	F R	Wind turbine
	14993	ALINGSÅS	575848.4N 0123048.6E	656	1227	F R	Wind turbine
	14994	ALINGSÅS	575838.1N 0123108.2E	656	1237	F R	Wind turbine
	14995	ALINGSÅS	575923.5N 0123043.8E	656	1266	FLG W	Wind turbine
	14996	ALINGSÅS	575907.7N 0123114.4E	656	1247	F R	Wind turbine
	15224	GÖTEBORG	574039.6N 0120049.1E	354	541	F R	Building
	15763	TVÅÅKER	570144.8N 0122125.4E	410	434	FLG R	Wind turbine
	15764	TVÅÅKER	570157.6N 0122124.6E	410	431	FLG R	Wind turbine
	15812	HEDARED	574925.0N 0124311.4E	377	1148	F R	Mast
	16220	TOMTEBACKA	574817.9N 0121923.9E	371	647	unknown	Mast
	16864	LILLA HÖKÅS	573429.3N 0123737.8E	335	1019	unknown	Wind turbine
57N 13E	17341	HOL	575742.2N 0124004.3E	492	958	F R	Mast
	115	LIMMARED	573229.6N 0132114.8E	331	865	F R	Chimney
	116	FINNVEDEN	571409.4N 0134302.8E	866	1688	F R/FLG W	Mast
	9677	VÄRNAMO	570827.2N 0135819.3E	492	1302	FLG R	Wind turbine
	9679	VÄRNAMO	570819.6N 0135834.4E	492	1283	FLG R	Wind turbine
	9704	KULLTORP	571656.8N 0134522.1E	410	1365	FLG R	Wind turbine
	9705	KULLTORP	571658.9N 0134547.2E	410	1394	FLG R	Wind turbine
	9706	KULLTORP	571648.9N 0134600.6E	410	1371	FLG R	Wind turbine
	9707	KULLTORP	571645.5N 0134532.1E	410	1303	FLG R	Wind turbine
	10686	RÄNNAVÄG	574255.3N 0132804.2E	492	1647	FLG R	Wind turbine
	10687	RÄNNAVÄG	574246.7N 0132741.1E	492	1650	FLG R	Wind turbine
	10688	RÄNNAVÄG	574226.2N 0132719.1E	492	1617	FLG R	Wind turbine
	11340	GNOSJÖ	572409.5N 0134339.0E	492	1444	FLG R	Wind turbine
	11341	GNOSJÖ	572400.3N 0134325.3E	492	1460	FLG R	Wind turbine
	11342	GNOSJÖ	572351.0N 0134309.9E	492	1362	FLG R	Wind turbine
	12614	REFTELE	571138.2N 0133831.9E	656	1266	F R/FLG W	Wind turbine
	12615	REFTELE	571150.9N 0133839.3E	656	1293	F R/FLG W	Wind turbine
	12901	BORÅS	574325.9N 0130321.4E	1007	2052	F R/FLG W	Mast
	12915	BOTTNARYD	574520.9N 0134750.7E	476	1529	FLG R	Wind turbine
	12916	BOTTNARYD	574456.5N 0134757.2E	476	1522	FLG R	Wind turbine
	12917	BOTTNARYD	574456.6N 0134833.4E	476	1542	FLG R	Wind turbine
	12918	BOTTNARYD	574439.5N 0134840.9E	476	1532	FLG R	Wind turbine
	13079	GRIMSÅS	572649.2N 0133141.3E	607	1519	FLG W	Wind turbine
	13080	GRIMSÅS	572719.6N 0133117.7E	607	1526	FLG W	Wind turbine
	13081	GRIMSÅS	572706.8N 0133131.0E	607	1539	F R	Wind turbine
	13082	GRIMSÅS	572701.0N 0133158.9E	607	1568	F R	Wind turbine
	13083	GRIMSÅS	572650.6N 0133220.1E	607	1594	F R	Wind turbine
	13084	GRIMSÅS	572643.9N 0133252.9E	607	1591	FLG W	Wind turbine
	13085	GRIMSÅS	572721.3N 0133152.9E	607	1542	F R	Wind turbine
	13086	GRIMSÅS	572712.4N 0133224.4E	607	1578	F R	Wind turbine
	13087	GRIMSÅS	572713.8N 0133252.1E	607	1575	F R	Wind turbine
	13088	GRIMSÅS	572658.5N 0133305.8E	607	1601	FLG W	Wind turbine
	13089	GRIMSÅS	572731.9N 0133237.7E	607	1526	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13090	GRIMSÅS	572756.0N 0133307.4E	607	1407	F R	Wind turbine
	13091	GRIMSÅS	572808.9N 0133314.0E	607	1381	FLG W	Wind turbine
	13590	BOTTNARYD	574912.3N 0135518.1E	623	1611	FLG W	Wind turbine
	13591	BOTTNARYD	574907.1N 0135545.9E	623	1639	FLG W	Wind turbine
	13592	BOTTNARYD	574853.4N 0135558.5E	623	1622	FLG W	Wind turbine
	13593	BOTTNARYD	574852.5N 0135516.3E	623	1594	FLG W	Wind turbine
	13594	BOTTNARYD	574832.0N 0135603.3E	623	1634	FLG W	Wind turbine
	13595	BOTTNARYD	574834.5N 0135523.9E	623	1608	FLG W	Wind turbine
	13596	BOTTNARYD	574817.3N 0135517.2E	623	1608	FLG W	Wind turbine
	13597	BOTTNARYD	574808.9N 0135553.2E	623	1562	FLG W	Wind turbine
	13598	BOTTNARYD	574759.9N 0135523.3E	623	1495	FLG W	Wind turbine
	13599	BOTTNARYD	574744.8N 0135526.2E	623	1504	FLG W	Wind turbine
	14123	TRÄDET	575748.5N 0133333.7E	656	1486	FLG W	Wind turbine
	14124	TRÄDET	575736.6N 0133405.3E	656	1512	FLG W	Wind turbine
	14125	TRÄDET	575720.4N 0133505.2E	656	1522	FLG W	Wind turbine
	14317	FURUSJÖ	575908.7N 0135547.2E	574	1690	F R	Wind turbine
	14318	FURUSJÖ	575853.8N 0135545.1E	574	1657	FLG W	Wind turbine
	14319	FURUSJÖ	575923.3N 0135605.8E	574	1716	FLG W	Wind turbine
	14320	FURUSJÖ	575850.1N 0135630.2E	574	1654	F R	Wind turbine
	14321	FURUSJÖ	575835.9N 0135630.2E	574	1633	FLG W	Wind turbine
	14322	FURUSJÖ	575907.4N 0135620.8E	574	1696	F R	Wind turbine
	14323	FURUSJÖ	575902.7N 0135646.2E	574	1634	F R	Wind turbine
	14324	FURUSJÖ	575930.0N 0135806.7E	574	1647	FLG W	Wind turbine
	14325	FURUSJÖ	575944.5N 0135751.4E	574	1647	F R	Wind turbine
	14326	FURUSJÖ	575945.9N 0135825.7E	574	1660	FLG W	Wind turbine
	15279	GISLAVED	572257.5N 0132625.8E	656	1628	F R	Wind turbine
	15280	GISLAVED	572242.8N 0132628.2E	656	1530	FLG W	Wind turbine
	15281	GISLAVED	572254.3N 0132659.8E	656	1573	F R	Wind turbine
	15282	GISLAVED	572334.6N 0132705.8E	656	1552	FLG W	Wind turbine
	15283	GISLAVED	572321.6N 0132700.5E	656	1621	F R	Wind turbine
	15284	GISLAVED	572307.1N 0132723.1E	656	1603	F R	Wind turbine
	15285	GISLAVED	572257.4N 0132759.8E	656	1537	FLG W	Wind turbine
	15286	GISLAVED	572320.2N 0132905.1E	656	1532	FLG W	Wind turbine
	15287	GISLAVED	572303.9N 0132849.8E	656	1581	F R	Wind turbine
	15288	GISLAVED	572311.5N 0132951.2E	656	1573	F R	Wind turbine
	15289	GISLAVED	572304.9N 0133016.5E	656	1575	FLG W	Wind turbine
	15290	GISLAVED	572326.8N 0133026.3E	656	1556	FLG W	Wind turbine
57N 14E	122	JÖNKÖPING/BONDBERGET	574610.0N 0141452.6E	449	1329	F R	Mast
	128	NÄSSJÖ 1	573836.6N 0144008.5E	1063	2135	FLG W	Mast
	881	JÖNKÖPING	574630.2N 0140936.6E	371	679	F R	Chimney
	7543	TABERG	574146.2N 0140918.7E	394	1066	F R	Chimney
	8669	FREDRIKSDAL	573655.8N 0143431.6E	335	1456	FLG R	Wind turbine
	8683	NÄSSJÖ	573524.5N 0143741.0E	328	1362	FLG R	Wind turbine
	9461	BERG	573701.2N 0143315.0E	492	1624	FLG W	Wind turbine
	9462	GÖSTORP	573645.6N 0143441.6E	492	1591	FLG W	Wind turbine
	9463	GÖSTORP	573707.0N 0143257.0E	492	1654	FLG W	Wind turbine
	9853	MÄLEN	574900.7N 0145545.2E	472	1434	FLG R	Wind turbine
	9854	MÄLEN	574853.1N 0145710.4E	472	1430	FLG R	Wind turbine
	10059	FORSERUM	573953.9N 0143221.3E	492	1611	FLG R	Wind turbine
	10060	FORSERUM	573954.4N 0143253.6E	492	1595	FLG R	Wind turbine
	10061	FORSERUM	573902.3N 0143257.8E	492	1617	FLG R	Wind turbine
	10062	FORSERUM	573938.6N 0143335.0E	492	1577	FLG R	Wind turbine
	10336	GRIPENBERG	575952.1N 0144936.9E	492	1247	FLG R	Wind turbine
	11071	FREDRIKSDAL	573817.3N 0143258.6E	492	1631	FLG R	Wind turbine
	11072	FREDRIKSDAL	573803.7N 0143124.8E	492	1624	FLG R	Wind turbine
	11073	FREDRIKSDAL	573742.5N 0143124.0E	492	1627	FLG R	Wind turbine
	11074	FREDRIKSDAL	573720.5N 0143155.2E	492	1624	FLG R	Wind turbine
	11076	FREDRIKSDAL	573658.6N 0143203.6E	492	1640	FLG R	Wind turbine
	11459	EKENÄSSJÖN	572919.2N 0145642.3E	492	1423	FLG R	Wind turbine
	11460	EKENÄSSJÖN	572923.9N 0145710.1E	492	1447	FLG R	Wind turbine
	11461	EKENÄSSJÖN	572931.3N 0145731.0E	492	1447	FLG R	Wind turbine
	11462	EKENÄSSJÖN	572943.1N 0145749.0E	492	1447	FLG R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	11463	EKENÄSSJÖN	572910.7N 0145711.6E	492	1483	FLG R	Wind turbine
	11464	EKENÄSSJÖN	572918.3N 0145740.6E	492	1455	FLG R	Wind turbine
	11465	EKENÄSSJÖN	572929.1N 0145757.6E	492	1480	FLG R	Wind turbine
	11617	LAMMHULT/TRITTEBODA	571255.5N 0143944.6E	394	1339	F R	Mast
	12210	FREDRIKSDAL	573640.4N 0143300.7E	486	1683	FLG R	Wind turbine
	12211	FREDRIKSDAL	573630.0N 0143329.3E	486	1640	FLG R	Wind turbine
	12212	FREDRIKSDAL	573626.6N 0143404.0E	486	1585	FLG R	Wind turbine
	12213	FREDRIKSDAL	573623.7N 0143246.8E	486	1660	FLG R	Wind turbine
	12214	FREDRIKSDAL	573616.5N 0143342.8E	486	1618	FLG R	Wind turbine
	12215	FREDRIKSDAL	573617.0N 0143431.0E	486	1601	FLG R	Wind turbine
	12216	FREDRIKSDAL	573634.6N 0143224.2E	486	1667	FLG R	Wind turbine
	12217	FREDRIKSDAL	573610.5N 0143316.1E	486	1650	FLG R	Wind turbine
	12218	FREDRIKSDAL	573558.1N 0143350.6E	486	1624	FLG R	Wind turbine
	12219	FREDRIKSDAL	573552.1N 0143255.0E	486	1635	FLG R	Wind turbine
	12225	ANEBY	575053.1N 0145803.4E	472	1417	F R	Mast
	13832	SLAGERYD	571814.9N 0145433.7E	591	1483	FLG W	Wind turbine
	13833	SLAGERYD	571802.5N 0145434.8E	591	1496	FLG W	Wind turbine
	13834	SLAGERYD	571749.8N 0145434.6E	591	1499	FLG W	Wind turbine
	13835	SLAGERYD	571737.0N 0145435.8E	591	1506	FLG W	Wind turbine
	13836	SLAGERYD	571724.3N 0145435.3E	591	1512	FLG W	Wind turbine
	13837	SLAGERYD	571712.2N 0145425.5E	591	1490	FLG W	Wind turbine
	14105	VAGGERYD/BOARP	572622.5N 0141418.3E	449	1309	F R	Mast
	14445	BRAÅS	570204.3N 0145841.1E	689	1440	FLG W	Wind turbine
	14446	BRAÅS	570159.1N 0145905.6E	689	1411	FLG R	Wind turbine
	14447	BRAÅS	570146.2N 0145914.3E	689	1379	FLG W	Wind turbine
	15251	ANEBY	574808.9N 0143724.8E	673	1660	FLG W	Wind turbine
	15252	ANEBY	574756.9N 0143753.8E	673	1663	F R	Wind turbine
	15253	ANEBY	574724.4N 0143904.5E	673	1677	FLG W	Wind turbine
	15254	ANEBY	574737.6N 0143931.3E	673	1690	FLG W	Wind turbine
	15255	ANEBY	574804.7N 0143647.0E	673	1644	F R	Wind turbine
	15256	ANEBY	574825.1N 0143555.3E	673	1594	F R	Wind turbine
	15257	ANEBY	574820.5N 0143632.8E	673	1598	F R	Wind turbine
	15258	ANEBY	574855.9N 0143541.6E	673	1703	FLG W	Wind turbine
	15259	ANEBY	574804.0N 0143610.6E	673	1558	FLG W	Wind turbine
	15260	ANEBY	574748.9N 0143630.8E	673	1604	F R	Wind turbine
	15261	ANEBY	574838.6N 0143542.6E	673	1624	F R	Wind turbine
	15262	ANEBY	574742.1N 0143716.5E	673	1647	FLG W	Wind turbine
	15263	ANEBY	575234.0N 0143834.7E	673	1680	FLG W	Wind turbine
	15264	ANEBY	575127.5N 0143755.6E	673	1680	FLG W	Wind turbine
	15265	ANEBY	575153.4N 0143738.6E	673	1667	F R	Wind turbine
	15266	ANEBY	575130.6N 0143641.9E	673	1663	FLG W	Wind turbine
	15267	ANEBY	575032.1N 0143614.3E	673	1660	FLG W	Wind turbine
	15268	ANEBY	575115.2N 0143715.3E	673	1680	F R	Wind turbine
	15269	ANEBY	575054.1N 0143618.3E	673	1677	F R	Wind turbine
	15270	ANEBY	575133.8N 0143729.3E	673	1690	F R	Wind turbine
	17203	LYCKÅS	575146.5N 0142158.1E	591	1643	F R	Wind turbine
	17204	LYCKÅS	575132.4N 0142223.4E	591	1644	F R	Wind turbine
	17205	LYCKÅS	575206.2N 0142243.2E	591	1645	FLG W	Wind turbine
	17206	LYCKÅS	575124.5N 0142135.8E	591	1629	FLG W	Wind turbine
	17207	LYCKÅS	575111.3N 0142153.3E	591	1639	F R	Wind turbine
	17208	LYCKÅS	575055.5N 0142201.5E	591	1647	F R	Wind turbine
	17209	LYCKÅS	575036.5N 0142231.9E	591	1690	FLG W	Wind turbine
	17210	LYCKÅS	575019.1N 0142220.2E	591	1689	F R	Wind turbine
	17211	LYCKÅS	575030.5N 0142130.7E	591	1655	F R	Wind turbine
	17212	LYCKÅS	575006.8N 0142156.9E	591	1614	F R	Wind turbine
	17213	LYCKÅS	574952.1N 0142211.5E	591	1612	FLG W	Wind turbine
	17214	LYCKÅS	575007.1N 0142115.6E	591	1565	FLG W	Wind turbine
	17215	LYCKÅS	575127.8N 0142258.5E	591	1595	FLG W	Wind turbine
	17234	VAGGERYD	572859.9N 0140150.5E	496	1300	F R	Mast
	17291	MÅRTENSTORP	574836.6N 0143734.7E	417	1420	unknown	Mast
	17300	RICKAN	575645.7N 0145634.0E	492	1495	unknown	Wind turbine
	17301	HYLTHEMMET	575713.0N 0145652.7E	492	1405	unknown	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
57N 15E	17302	BAKAREMÅLEN	575604.7N 0145805.6E	492	1422	unknown	Wind turbine
	17303	BAKAREMÅLEN	575555.5N 0145827.1E	492	1436	unknown	Wind turbine
	130	KISA/1	575727.4N 0153522.0E	1089	1908	F R/FLG W	Mast
	134	MÖRLUNDA	571924.0N 0155903.2E	417	889	F R	Mast
	1150	HYCKLINGE	575501.6N 0155516.4E	338	711	F R	Mast
	1972	FAGERHULT	570819.5N 0153425.2E	341	1085	F R	Mast
	2796	BRUZHOLM	573803.4N 0151651.2E	338	972	F R	Mast
	3071	YDRE	574934.7N 0151723.7E	341	948	F R	Mast
	4066	NYE	571900.5N 0152051.6E	338	1115	F R	Mast
	9233	GÖLJARYD	571309.9N 0151024.1E	328	1270	FLG R	Wind turbine
	9234	GÖLJARYD	571304.5N 0151035.4E	328	1271	FLG R	Wind turbine
	9251	BOCKARA	571639.3N 0155922.2E	476	897	FLG R	Wind turbine
	9252	BOCKARA	571627.9N 0155911.5E	410	810	FLG R	Wind turbine
	10549	NORRHULT KLAVRESTRÖM	570802.5N 0150541.2E	331	1289	FLG W	Wind turbine
	10951	LINDSHAMMAR	571346.4N 0151117.0E	492	1445	FLG R	Wind turbine
	10952	LINDSHAMMAR	571354.5N 0151145.0E	492	1460	FLG R	Wind turbine
	10953	LINDSHAMMAR	571341.7N 0151202.4E	492	1459	FLG R	Wind turbine
	10954	LINDSHAMMAR	571331.5N 0151131.2E	492	1427	FLG R	Wind turbine
	10955	LINDSHAMMAR	571316.6N 0151132.9E	492	1447	FLG R	Wind turbine
	10956	LINDSHAMMAR	571328.3N 0151212.9E	492	1460	FLG R	Wind turbine
	10957	LINDSHAMMAR	571255.5N 0151204.7E	492	1453	FLG R	Wind turbine
	10958	LINDSHAMMAR	571310.4N 0151221.9E	492	1473	FLG R	Wind turbine
	10959	LINDSHAMMAR	571244.9N 0151225.7E	492	1450	FLG R	Wind turbine
	10960	LINDSHAMMAR	571257.4N 0151241.1E	492	1470	FLG R	Wind turbine
	10961	LINDSHAMMAR	571234.3N 0151159.3E	492	1444	FLG R	Wind turbine
	11019	LEMNHULT	571329.5N 0151625.0E	607	1512	FLG W	Wind turbine
	11020	LEMNHULT	571330.6N 0151537.7E	607	1503	F R	Wind turbine
	11021	LEMNHULT	571340.8N 0151523.0E	607	1539	F R	Wind turbine
	11022	LEMNHULT	571356.0N 0151509.3E	607	1535	F R	Wind turbine
	11023	LEMNHULT	571410.4N 0151504.8E	607	1545	F R	Wind turbine
	11024	LEMNHULT	571433.2N 0151515.5E	607	1512	F R	Wind turbine
	11025	LEMNHULT	571523.1N 0151704.0E	607	1483	FLG W	Wind turbine
	11026	LEMNHULT	571519.6N 0151629.0E	607	1539	F R	Wind turbine
	11027	LEMNHULT	571507.2N 0151630.8E	607	1542	F R	Wind turbine
	11028	LEMNHULT	571434.9N 0151610.3E	607	1549	FLG W	Wind turbine
	11029	LEMNHULT	571450.8N 0151533.4E	607	1532	F R	Wind turbine
	11030	LEMNHULT	571501.0N 0151520.2E	607	1581	F R	Wind turbine
	11115	NORRHULT-KLAVRESTRÖM	570632.7N 0150924.7E	492	1247	FLG R	Wind turbine
	11141	LEMNHULT	571331.4N 0151441.4E	607	1522	FLG W	Wind turbine
	11142	LEMNHULT	571343.6N 0151424.5E	607	1558	F R	Wind turbine
	11143	LEMNHULT	571359.6N 0151435.5E	607	1558	F R	Wind turbine
	11144	LEMNHULT	571414.4N 0151433.2E	607	1585	F R	Wind turbine
	11145	LEMNHULT	571536.4N 0151600.8E	607	1562	F R	Wind turbine
	11146	LEMNHULT	571514.1N 0151534.2E	607	1555	F R	Wind turbine
	11147	LEMNHULT	571525.0N 0151457.5E	607	1601	F R	Wind turbine
	11148	LEMNHULT	571546.5N 0151624.8E	607	1549	F R	Wind turbine
	11149	LEMNHULT	571511.6N 0151457.7E	607	1598	F R	Wind turbine
11150	LEMNHULT	571441.8N 0151431.4E	607	1594	F R	Wind turbine	
11151	LEMNHULT	571429.6N 0151434.4E	607	1568	F R	Wind turbine	
11152	LEMNHULT	571441.0N 0151347.1E	607	1578	F R	Wind turbine	
11166	LEMNHULT	571451.3N 0151334.6E	607	1591	FLG W	Wind turbine	
11167	LEMNHULT	571516.5N 0151339.3E	607	1575	FLG W	Wind turbine	
11168	LEMNHULT	571518.4N 0151412.7E	607	1565	F R	Wind turbine	
11169	LEMNHULT	571502.8N 0151325.5E	607	1611	F R	Wind turbine	
11170	LEMNHULT	571611.9N 0151556.5E	607	1506	FLG W	Wind turbine	
11171	LEMNHULT	571530.3N 0151111.8E	607	1555	FLG W	Wind turbine	
11172	LEMNHULT	571542.0N 0151107.5E	607	1558	F R	Wind turbine	
11173	LEMNHULT	571556.8N 0151058.4E	607	1552	FLG W	Wind turbine	
12078	VETLANDA SANDÅKRA	572307.2N 0150708.3E	479	1385	FLG R	Wind turbine	
12079	VETLANDA HESTER	572222.6N 0150730.7E	479	1385	FLG R	Wind turbine	
12080	VETLANDA HESTER	572229.7N 0150802.4E	479	1385	FLG R	Wind turbine	
12081	VETLANDA HESTER	572230.6N 0150828.7E	479	1463	FLG R	Wind turbine	

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	12082	VETLANDA HÖRERYD	572227.7N 0150908.9E	479	1444	FLG R	Wind turbine
	12083	VETLANDA KRASSABERG	572218.1N 0151002.7E	479	1355	FLG R	Wind turbine
	12084	TÅNGA	571311.3N 0151554.7E	492	1355	FLG W	Wind turbine
	12408	KVILLSFORS	572516.6N 0153314.2E	591	1247	FLG W	Wind turbine
	12409	KVILLSFORS	572536.3N 0153217.0E	591	1302	FLG W	Wind turbine
	12410	KVILLSFORS	572543.0N 0153242.0E	591	1296	FLG W	Wind turbine
	12411	KVILLSFORS	572530.3N 0153256.3E	591	1293	FLG W	Wind turbine
	12412	KVILLSFORS	572550.7N 0153208.9E	591	1332	FLG W	Wind turbine
	12413	KVILLSFORS	572557.9N 0153144.9E	591	1332	FLG W	Wind turbine
	12414	KVILLSFORS	572612.3N 0153124.3E	591	1319	FLG W	Wind turbine
	13283	SKEDE	573040.1N 0151131.8E	459	1303	F R	Mast
	15143	ÅSEDA	570823.3N 0151903.6E	627	1516	FLG W	Wind turbine
	15144	ÅSEDA	570826.3N 0152027.0E	627	1499	FLG W	Wind turbine
	15145	ÅSEDA	570834.5N 0151957.2E	627	1499	F R	Wind turbine
	15146	ÅSEDA	570825.9N 0152113.8E	627	1493	F R	Wind turbine
	15147	ÅSEDA	570802.2N 0151915.3E	627	1535	F R	Wind turbine
	15148	ÅSEDA	570801.9N 0151951.3E	627	1509	F R	Wind turbine
	15149	ÅSEDA	570758.8N 0152044.5E	627	1509	F R	Wind turbine
	15150	ÅSEDA	570805.2N 0152114.8E	627	1476	F R	Wind turbine
	15151	ÅSEDA	570809.9N 0152153.0E	627	1434	FLG W	Wind turbine
	15152	ÅSEDA	570749.7N 0151857.4E	627	1516	F R	Wind turbine
	15153	ÅSEDA	570743.2N 0151950.1E	627	1506	F R	Wind turbine
	15154	ÅSEDA	570744.8N 0152123.5E	627	1486	F R	Wind turbine
	15155	ÅSEDA	570756.8N 0152139.7E	627	1473	F R	Wind turbine
	15156	ÅSEDA	570736.5N 0151833.6E	627	1526	FLG W	Wind turbine
	15157	ÅSEDA	570736.4N 0151912.2E	627	1519	F R	Wind turbine
	15158	ÅSEDA	570728.9N 0151952.9E	627	1476	F R	Wind turbine
	15159	ÅSEDA	570723.2N 0152047.2E	627	1506	F R	Wind turbine
	15160	ÅSEDA	570735.7N 0152100.6E	627	1499	F R	Wind turbine
	15161	ÅSEDA	570727.3N 0152127.3E	627	1486	F R	Wind turbine
	15162	ÅSEDA	570716.3N 0151853.3E	627	1522	FLG W	Wind turbine
	15163	ÅSEDA	570705.2N 0151942.4E	627	1490	F R	Wind turbine
	15164	ÅSEDA	570711.9N 0152059.1E	627	1476	F R	Wind turbine
	15165	ÅSEDA	570658.2N 0152050.9E	627	1480	F R	Wind turbine
	15166	ÅSEDA	570633.0N 0152031.6E	627	1476	FLG W	Wind turbine
	15167	ÅSEDA	570639.7N 0152104.1E	627	1457	F R	Wind turbine
	15168	ÅSEDA	570625.9N 0152108.3E	627	1476	F R	Wind turbine
	15169	ÅSEDA	570629.3N 0152314.6E	627	1440	F R	Wind turbine
	15170	ÅSEDA	570631.6N 0152359.3E	627	1473	F R	Wind turbine
	15171	ÅSEDA	570640.2N 0152429.6E	627	1434	F R	Wind turbine
	15172	ÅSEDA	570654.6N 0152446.6E	627	1453	FLG W	Wind turbine
	15173	ÅSEDA	570616.5N 0152245.4E	627	1440	F R	Wind turbine
	15174	ÅSEDA	570621.1N 0152416.9E	627	1450	F R	Wind turbine
	15175	ÅSEDA	570630.5N 0152445.2E	627	1440	F R	Wind turbine
	15176	ÅSEDA	570608.4N 0152309.1E	627	1467	F R	Wind turbine
	15177	ÅSEDA	570603.5N 0152344.7E	627	1480	F R	Wind turbine
	15178	ÅSEDA	570550.9N 0152213.0E	627	1440	FLG W	Wind turbine
	15179	ÅSEDA	570555.2N 0152245.3E	627	1463	F R	Wind turbine
	15180	ÅSEDA	570539.2N 0152233.5E	627	1499	F R	Wind turbine
	15181	ÅSEDA	570548.9N 0152335.6E	627	1450	F R	Wind turbine
	15182	ÅSEDA	570555.6N 0152439.6E	627	1450	F R	Wind turbine
	15183	ÅSEDA	570556.7N 0152510.8E	627	1440	F R	Wind turbine
	15184	ÅSEDA	570523.3N 0152239.3E	627	1473	F R	Wind turbine
	15185	ÅSEDA	570526.4N 0152314.6E	627	1437	F R	Wind turbine
	15186	ÅSEDA	570539.2N 0152350.3E	627	1437	F R	Wind turbine
	15187	ÅSEDA	570532.6N 0152440.8E	627	1430	F R	Wind turbine
	15188	ÅSEDA	570541.9N 0152510.4E	627	1440	FLG W	Wind turbine
	15189	ÅSEDA	570509.0N 0152258.0E	627	1457	FLG W	Wind turbine
	15510	GREVEKULLA	574339.3N 0151504.5E	656	1540	FLG W	Wind turbine
	15511	GREVEKULLA	574353.4N 0151523.4E	656	1572	FLG W	Wind turbine
	15512	GREVEKULLA	574341.3N 0151555.8E	656	1558	FLG W	Wind turbine
	15513	GREVEKULLA	574330.9N 0151528.4E	656	1624	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	15514	GREVEKULLA	574313.6N 0151531.7E	656	1555	F R	Wind turbine
	15515	GREVEKULLA	574302.1N 0151559.8E	656	1578	FLG W	Wind turbine
	15684	ÅSEDA	570636.5N 0151728.9E	627	1529	FLG W	Wind turbine
	15685	ÅSEDA	570618.8N 0151753.9E	627	1523	FLG W	Wind turbine
	15686	ÅSEDA	570517.6N 0151859.9E	627	1550	FLG W	Wind turbine
	15687	ÅSEDA	570524.0N 0151725.1E	627	1568	FLG W	Wind turbine
	15688	ÅSEDA	570403.2N 0151442.2E	627	1568	FLG W	Wind turbine
	15689	ÅSEDA	570352.4N 0151410.3E	627	1542	F R	Wind turbine
	15690	ÅSEDA	570351.4N 0151331.0E	627	1555	FLG W	Wind turbine
	15691	ÅSEDA	570424.6N 0151832.3E	627	1555	FLG W	Wind turbine
	15692	ÅSEDA	570416.8N 0151901.8E	627	1539	F R	Wind turbine
	15693	ÅSEDA	570404.4N 0151924.0E	627	1575	FLG W	Wind turbine
	15694	ÅSEDA	570350.1N 0151842.4E	627	1535	F R	Wind turbine
	15695	ÅSEDA	570358.6N 0151813.2E	627	1562	F R	Wind turbine
	15696	ÅSEDA	570330.6N 0151902.4E	627	1554	FLG W	Wind turbine
	15697	ÅSEDA	570302.9N 0151845.1E	627	1540	F R	Wind turbine
	15698	ÅSEDA	570246.2N 0151837.9E	627	1491	F R	Wind turbine
	15699	ÅSEDA	570231.6N 0151828.4E	627	1492	FLG W	Wind turbine
	15700	ÅSEDA	570319.5N 0151818.0E	627	1522	F R	Wind turbine
	15701	ÅSEDA	570332.4N 0151804.5E	627	1527	F R	Wind turbine
	15702	ÅSEDA	570319.0N 0151740.6E	627	1514	FLG W	Wind turbine
	15703	ÅSEDA	570300.9N 0151814.9E	627	1521	F R	Wind turbine
	15704	LENHOVDA	570223.6N 0151719.7E	607	1488	FLG W	Wind turbine
	15705	LENHOVDA	570244.8N 0151701.2E	607	1518	FLG W	Wind turbine
	15706	LENHOVDA	570223.7N 0151634.4E	607	1503	F R	Wind turbine
	15707	LENHOVDA	570206.0N 0151600.2E	607	1517	F R	Wind turbine
	15708	LENHOVDA	570215.3N 0151526.0E	607	1552	FLG W	Wind turbine
	15709	LENHOVDA	570201.6N 0151521.2E	607	1538	F R	Wind turbine
	15710	LENHOVDA	570144.7N 0151515.7E	607	1528	FLG W	Wind turbine
	15860	LÖNHULT	574516.4N 0150357.9E	423	1375	F R	Mast
	16830	NYHOLM	570043.9N 0152914.2E	328	1065	unknown	Wind turbine
57N 16E	145	LOFTAHAMMAR	575435.8N 0164429.2E	367	491	F R	Mast
	146	RUDA	570713.2N 0160910.8E	696	999	F R/FLG W	Mast, Note:Support cables within radius 300 m.
	147	VÄSTERVIK/FÄRHULT	574315.3N 0162533.8E	1099	1396	F R/FLG W	Mast
	148	VÄSTERVIK/MARIELUND	574334.2N 0163933.3E	417	486	F R	Mast
	149	OSKARSHAMN/SIMPEVARP	572446.3N 0164003.8E	364	383	F R	Chimney
	712	OSKARSHAMN/SIMPEVARP	572450.6N 0163935.2E	338	373	F R	Mast
	1292	BLANKAHOLM	573532.3N 0163006.3E	344	428	F R	Mast
	4141	GAMLEBY/LINKÖPING	575428.9N 0162350.7E	344	559	F R	Mast
	4500	VÄSTERVIK/FÄRHULT	574315.0N 0162536.6E	577	878	F R	Mast
	4906	OSKARSHAMN/SIMPEVARP	572458.6N 0164022.9E	328	338	F R	Chimney
	9872	MÖNSTERÅS	570524.9N 0163124.2E	492	558	FLG R	Wind turbine
	9873	MÖNSTERÅS	570536.1N 0163143.5E	492	541	FLG R	Wind turbine
	9874	MÖNSTERÅS	570549.7N 0163207.4E	492	541	FLG R	Wind turbine
	9875	MÖNSTERÅS	570603.7N 0163232.0E	492	518	FLG R	Wind turbine
	9876	MÖNSTERÅS	570554.3N 0163311.7E	492	512	FLG R	Wind turbine
	9877	MÖNSTERÅS	570542.9N 0163348.4E	492	504	FLG R	Wind turbine
	9954	MÖNSTERÅS/NYGÅRD	570532.6N 0163047.5E	492	535	FLG R	Wind turbine
	9955	MÖNSTERÅS/NYGÅRD	570550.0N 0163119.7E	492	535	FLG R	Wind turbine
	9956	MÖNSTERÅS/NYGÅRD	570604.0N 0163145.5E	492	518	FLG R	Wind turbine
	9957	MÖNSTERÅS/NYGÅRD	570619.5N 0163214.0E	492	520	FLG R	Wind turbine
	10314	GAMLEBY	575023.6N 0162214.8E	492	758	FLG R	Wind turbine
	10315	GAMLEBY	575017.5N 0162146.5E	492	771	FLG R	Wind turbine
	10316	GAMLEBY	575027.6N 0162127.9E	492	810	FLG R	Wind turbine
	10317	GAMLEBY	575038.6N 0162156.5E	492	764	FLG R	Wind turbine
	10318	GAMLEBY	575046.6N 0162133.7E	492	768	FLG R	Wind turbine
	14602	FLISERYD	570723.0N 0161813.9E	656	773	FLG W	Wind turbine
	14603	FLISERYD	570702.9N 0161753.5E	656	807	FLG W	Wind turbine
	14604	FLISERYD	570704.9N 0161853.1E	656	785	F R	Wind turbine
	14605	FLISERYD	570651.2N 0161823.7E	656	805	F R	Wind turbine
	14606	FLISERYD	570630.0N 0161819.4E	656	789	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	14607	FLISERYD	570614.2N 0161820.4E	656	790	FLG W	Wind turbine
	14608	FLISERYD	570639.8N 0161853.7E	656	779	F R	Wind turbine
	14609	FLISERYD	570653.2N 0161929.7E	656	792	F R	Wind turbine
	14610	FLISERYD	570639.6N 0161952.2E	656	802	FLG W	Wind turbine
	14611	FLISERYD	570621.4N 0161900.5E	656	794	F R	Wind turbine
	14612	FLISERYD	570600.7N 0161905.5E	656	813	F R	Wind turbine
	14613	FLISERYD	570543.3N 0161921.7E	656	795	FLG W	Wind turbine
	14614	FLISERYD	570616.4N 0162003.2E	656	810	F R	Wind turbine
	14615	FLISERYD	570617.0N 0162052.6E	656	777	F R	Wind turbine
	14616	FLISERYD	570621.5N 0162129.8E	656	739	F R	Wind turbine
	14617	FLISERYD	570555.9N 0161959.8E	656	800	F R	Wind turbine
	14618	FLISERYD	570601.1N 0162037.9E	656	788	F R	Wind turbine
	14619	FLISERYD	570545.0N 0162019.5E	656	811	F R	Wind turbine
	14620	FLISERYD	570550.4N 0162118.9E	656	767	F R	Wind turbine
	14621	FLISERYD	570531.0N 0162040.7E	656	812	FLG W	Wind turbine
	14622	FLISERYD	570530.1N 0162121.2E	656	753	F R	Wind turbine
	14623	FLISERYD	570619.1N 0162215.9E	656	789	F R	Wind turbine
	14624	FLISERYD	570600.3N 0162208.1E	656	746	F R	Wind turbine
	14625	FLISERYD	570530.2N 0162221.6E	656	756	FLG W	Wind turbine
	14626	FLISERYD	570559.8N 0162247.9E	656	784	F R	Wind turbine
	14627	FLISERYD	570544.4N 0162243.1E	656	790	F R	Wind turbine
	14628	FLISERYD	570730.7N 0162248.3E	656	741	FLG W	Wind turbine
	14629	FLISERYD	570703.3N 0162308.2E	656	734	F R	Wind turbine
	14630	FLISERYD	570646.9N 0162403.3E	656	738	F R	Wind turbine
	14631	FLISERYD	570635.4N 0162425.7E	656	742	FLG W	Wind turbine
	14632	FLISERYD	570622.0N 0162341.8E	656	746	F R	Wind turbine
	14633	FLISERYD	570613.0N 0162413.3E	656	755	F R	Wind turbine
	14634	FLISERYD	570616.4N 0162452.3E	656	722	F R	Wind turbine
	14635	FLISERYD	570601.3N 0162505.8E	656	732	F R	Wind turbine
	14636	FLISERYD	570539.8N 0162439.2E	656	730	FLG W	Wind turbine
	14637	FLISERYD	570544.7N 0162519.8E	656	743	FLG W	Wind turbine
	15852	LEBO	573807.7N 0162637.9E	656	773	FLG W	Wind turbine
	15853	LEBO	573704.1N 0162742.9E	656	807	FLG W	Wind turbine
	15854	LEBO	573644.7N 0162748.4E	656	825	F R	Wind turbine
	15855	LEBO	573606.0N 0162740.8E	656	805	FLG W	Wind turbine
	15856	LEBO	573629.8N 0162658.0E	656	821	FLG W	Wind turbine
	15890	HJORTED	573905.3N 0161529.7E	656	944	FW	Wind turbine
	15891	HJORTED	573859.6N 0161528.2E	656	922	FLG R	Wind turbine
	15892	HJORTED	573855.1N 0161502.5E	656	977	FLG R	Wind turbine
	15893	HJORTED	573859.3N 0161438.4E	656	992	FLG R	Wind turbine
	15894	HJORTED	573851.6N 0161410.4E	656	930	FLG W	Wind turbine
	15895	HJORTED	573855.2N 0161349.9E	656	1003	FLG R	Wind turbine
	15896	HJORTED	573739.3N 0161453.4E	656	988	FLG W	Wind turbine
	16473	SVARTGÖL	575054.4N 0162105.1E	476	750	unknown	Wind turbine
57N 17E	152	BYXELKROK	572106.8N 0170406.5E	420	444	F R	Mast
	3687	MELLBÖDA	571353.8N 0170420.0E	397	402	F R	Wind turbine
	11061	BÖDA	571544.2N 0170001.3E	354	396	F R	Mast
	11284	YTTERGRUND	570032.8N 0170016.6E (*)	446	446	FLG R	Wind turbine
	11285	YTTERGRUND	570019.5N 0170018.8E (*)	446	446	FLG R	Wind turbine
	11286	YTTERGRUND	570006.1N 0170019.6E (*)	446	446	FLG R	Wind turbine
57N 18E	159	IRE	574917.2N 0183627.1E	420	520	F R	Mast
	160	VISBY/FOLLINGBO	573533.6N 0182222.7E	853	1109	F R/FLG W	Mast
	161	VISBY/YGNE	573507.7N 0181101.2E	459	619	F R	Mast
	689	SLITE 2	574233.2N 0184812.2E	367	404	F R	Tower
	728	NÄSUDDEN	570422.9N 0181327.2E	453	478	FLG R	Wind turbine
	1289	LOJSTA	572008.3N 0182046.1E	328	612	F R	Mast
	1320	LJUGARN	572109.5N 0184353.0E	361	413	F R	Mast
	1449	SLITE	574232.4N 0184804.1E	358	403	F R	Silo
	1586	NÄSUDDEN	570420.5N 0181314.6E (*)	394	413	F R	Mast
	2193	NÄS	570350.3N 0181312.0E (*)	387	394	F R	Wind turbine
	2214	NÄS	570642.5N 0181311.8E (*)	410	413	FLG R	Wind turbine
	3249	NÄS	570422.9N 0181353.4E	328	369	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	3969	SMÖJEN	574359.9N 0185632.1E (*)	328	361	F R	Wind turbine
	3970	SMÖJEN	574351.5N 0185640.5E (*)	328	344	F R	Wind turbine
	3971	SMÖJEN	574342.6N 0185649.7E (*)	328	361	F R	Wind turbine
	3972	SMÖJEN	574334.5N 0185657.9E (*)	328	351	F R	Wind turbine
	4031	STORA VIKERS	575006.3N 0184908.4E (*)	328	443	F R	Wind turbine
	4032	STORA VIKERS	575005.9N 0184928.4E (*)	328	443	F R	Wind turbine
	4033	STORA VIKERS	575009.6N 0184947.3E (*)	328	443	F R	Wind turbine
	4034	STORA VIKERS	575014.3N 0185004.4E (*)	328	459	F R	Wind turbine
	4035	STORA VIKERS	575017.9N 0185022.4E (*)	328	459	F R	Wind turbine
	4036	STORA VIKERS	575016.6N 0185042.4E (*)	328	456	F R	Wind turbine
	4195	NÄSUDDEN	570354.6N 0181301.5E (*)	328	341	-	Wind turbine
	4355	LÄRBRO	575024.1N 0185038.8E (*)	364	479	F R	Wind turbine
	4356	LÄRBRO	575027.1N 0185007.4E (*)	364	489	F R	Wind turbine
	4357	LÄRBRO	575020.5N 0184953.0E (*)	364	489	F R	Wind turbine
	5343	NÄSUDDEN	570409.4N 0181428.7E (*)	410	420	F R	Wind turbine
	9485	NÄS	570632.2N 0181310.9E (*)	410	417	FLG R	Wind turbine
	9486	NÄS	570621.8N 0181310.1E (*)	410	417	FLG R	Wind turbine
	9487	NÄS	570611.5N 0181309.3E (*)	410	417	FLG R	Wind turbine
	9488	NÄS	570601.1N 0181308.4E (*)	410	417	FLG R	Wind turbine
	9489	NÄS	570550.8N 0181307.6E (*)	410	417	FLG R	Wind turbine
	9494	GRÖTLINGBO	570544.7N 0181949.6E (*)	410	443	FLG R	Wind turbine
	9495	GRÖTLINGBO	570451.5N 0181949.2E (*)	410	443	FLG R	Wind turbine
	10113	LÄRBRO	574838.8N 0184543.8E (*)	489	571	FLG R	Wind turbine
	10114	LÄRBRO	574827.4N 0184601.9E (*)	489	581	FLG R	Wind turbine
	10368	KRÄKLINGBO	572632.6N 0184601.8E (*)	459	486	FLG R	Wind turbine
	10387	NÄSUDDEN	570542.4N 0181241.5E (*)	443	449	FLG R	Wind turbine
	10388	NÄSUDDEN	570531.9N 0181240.7E (*)	443	449	FLG R	Wind turbine
	10389	NÄSUDDEN	570521.2N 0181239.9E (*)	443	449	FLG R	Wind turbine
	10390	NÄSUDDEN	570510.9N 0181239.1E (*)	443	453	FLG R	Wind turbine
	10391	NÄSUDDEN	570500.4N 0181238.2E (*)	443	459	FLG R	Wind turbine
	10392	NÄSUDDEN	570449.7N 0181237.4E (*)	443	463	FLG R	Wind turbine
	10393	NÄSUDDEN	570540.4N 0181306.8E (*)	443	456	FLG R	Wind turbine
	10394	NÄSUDDEN	570508.3N 0181304.3E (*)	443	463	FLG R	Wind turbine
	10395	NÄSUDDEN	570458.0N 0181303.4E (*)	443	466	FLG R	Wind turbine
	10396	NÄSUDDEN	570447.7N 0181302.6E (*)	443	466	FLG R	Wind turbine
	10397	NÄSUDDEN	570529.4N 0181305.9E (*)	443	459	FLG R	Wind turbine
	10398	NÄSUDDEN	570518.7N 0181305.1E (*)	443	459	FLG R	Wind turbine
	10399	NÄSUDDEN	570431.5N 0181211.2E (*)	443	449	FLG R	Wind turbine
	10400	NÄSUDDEN	570412.2N 0181209.6E (*)	443	466	FLG R	Wind turbine
	10401	NÄSUDDEN	570421.9N 0181210.4E (*)	443	456	FLG R	Wind turbine
	10402	NÄSUDDEN	570402.5N 0181208.9E (*)	443	466	FLG R	Wind turbine
	10403	NÄSUDDEN	570352.7N 0181208.1E (*)	443	456	FLG R	Wind turbine
	10404	NÄSUDDEN	570429.2N 0181235.8E (*)	443	466	FLG R	Wind turbine
	10405	NÄSUDDEN	570419.5N 0181235.0E (*)	443	466	FLG R	Wind turbine
	10406	NÄSUDDEN	570400.0N 0181233.4E (*)	443	466	FLG R	Wind turbine
	10407	NÄSUDDEN	570350.1N 0181232.7E (*)	443	466	FLG R	Wind turbine
	10408	SMÖJEN	574350.6N 0185710.3E (*)	456	469	FLG R	Wind turbine
	10751	STENGRINDE	574528.1N 0185153.1E (*)	492	561	FLG R	Wind turbine
	10791	STORA VIKERS	574937.3N 0184924.3E (*)	492	610	FLG R	Wind turbine
	12077	STORUNGS	574957.8N 0185043.7E (*)	492	610	FLG W	Wind turbine
	12103	STORUNGS	574947.7N 0184959.6E (*)	492	614	FLG W	Wind turbine
	12731	KRÄKLINGBO	572641.1N 0184536.9E (*)	489	522	FLG R	Wind turbine
	13137	NÄSUDDEN	570439.6N 0181236.6E (*)	476	495	FLG R	Wind turbine
	13138	NÄSUDDEN	570427.0N 0181301.0E (*)	476	499	FLG R	Wind turbine
	13139	NÄSUDDEN	570437.3N 0181301.8E (*)	476	499	FLG R	Wind turbine
	14503	NÄR	571321.6N 0183857.8E	476	500	FLG R	Wind turbine
57N 19E	165	BUNGE	575155.9N 0190008.0E	387	575	F R	Mast
	999	HOLMUDDEN	575729.7N 0192039.4E	666	716	F R/FLG W	Mast, 40 per min.
58N 11E	170	GREBBESTAD 2	584117.7N 0111530.4E	341	492	F R	Mast
	176	STRÖMSTAD	585607.3N 0111108.8E	377	544	F R	Mast
	177	UDDEVALLA/HERRESTAD	582226.5N 0114916.7E	1089	1621	F R/FLG W	Mast
	179	TANUM	584337.3N 0112527.9E	387	877	F R	Mast

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	180	SVANESUND/ORUST	581128.1N 0114803.8E	417	704	F R	Mast
	181	LYSEKIL	582044.0N 0112520.1E	459	542	F R	Chimney
	719	STENUNGSUND 3	580507.6N 0114931.0E	410	489	-	Chimney, Torch.
	803	TJÖRNBRON	580333.9N 0114640.6E	404	442	F R	Tower
	1725	KUNGSHAMN	582125.5N 0111510.2E	344	455	F R	Mast
	3958	UDDEVALLABRON	581927.3N 0115049.1E	492	492	F R/FLG W	Tower, 60 per minute
	3959	UDDEVALLABRON	581936.2N 0115030.1E	492	492	F R/FLG W	Tower, 60 per minute
	4433	TJÖRNBRON	580333.0N 0114702.9E	404	440	F R	Tower
	4495	LYSEKIL	582046.0N 0112526.4E	463	543	F R	Chimney
	7800	MUNGSERÖD	584616.6N 0112241.9E	331	676	F R	Wind turbine
	7801	MUNGSERÖD	584628.7N 0112237.4E	331	682	F R	Wind turbine
	7802	MUNGSERÖD	584627.4N 0112305.2E	331	728	F R	Wind turbine
	7803	MUNGSERÖD	584637.8N 0112251.1E	331	705	F R	Wind turbine
	7804	MUNGSERÖD	584637.4N 0112323.8E	331	781	F R	Wind turbine
	7805	MUNGSERÖD	584646.8N 0112312.8E	331	758	F R	Wind turbine
	7876	HÄLLEVADSHOLM	583616.5N 0113141.4E	328	820	F R	Wind turbine
	7877	HÄLLEVADSHOLM	583528.3N 0112947.3E	328	741	F R	Wind turbine
	8243	RÅLANDA	582223.0N 0114305.9E	328	610	F R	Wind turbine
	8670	ÖDEBORG	583159.2N 0115016.5E	328	820	F R	Wind turbine
	8856	HUMLEKÄRR	582036.0N 0112435.4E	453	614	FLG R	Wind turbine
	8857	HUMLEKÄRR	582026.5N 0112445.8E	453	688	FLG R	Wind turbine
	8984	TANUMSHEDE	584009.9N 0112513.3E	476	856	FLG R	Wind turbine
	8985	TANUMSHEDE	583949.5N 0112539.5E	476	886	FLG R	Wind turbine
	8986	TANUMSHEDE	583857.7N 0112646.7E	476	888	FLG R	Wind turbine
	8987	TANUMSHEDE	583910.8N 0112652.9E	476	915	FLG R	Wind turbine
	8992	TANUMSHEDE	583918.8N 0112608.9E	476	923	FLG R	Wind turbine
	8993	TANUMSHEDE	583906.2N 0112624.4E	476	909	FLG R	Wind turbine
	9451	LUR	584908.4N 0111646.1E	456	607	FLG R	Wind turbine
	9452	LUR	584914.7N 0111624.4E	456	669	FLG R	Wind turbine
	9453	LUR	584924.5N 0111641.9E	456	656	FLG R	Wind turbine
	9454	LUR	584935.6N 0111629.8E	456	624	FLG R	Wind turbine
	9752	HEDEKAS	583711.6N 0114911.1E	476	998	FLG R	Wind turbine
	9753	HEDEKAS	583654.6N 0114819.3E	476	1058	FLG R	Wind turbine
	9754	HEDEKAS	583650.7N 0114748.9E	476	1089	FLG R	Wind turbine
	9755	HEDEKAS	583652.2N 0114857.1E	476	998	FLG R	Wind turbine
	9756	HEDEKAS	583641.7N 0114824.4E	476	1052	FLG R	Wind turbine
	9758	HEDEKAS	583627.5N 0114810.2E	476	1101	FLG R	Wind turbine
	9963	HERRESTAD	582214.6N 0114311.3E	482	775	FLG R	Wind turbine
	9964	HERRESTAD	582201.2N 0114339.8E	482	806	FLG R	Wind turbine
	9970	TEGNEBY/ORUST	581005.3N 0113840.3E	459	725	FLG R	Wind turbine
	9971	TEGNEBY/ORUST	581019.0N 0113827.0E	459	764	FLG R	Wind turbine
	9972	TEGNEBY/ORUST	581019.9N 0113852.3E	459	758	FLG R	Wind turbine
	10102	VIK	585157.8N 0111641.1E	459	666	FLG R	Wind turbine
	10103	VIK	585142.8N 0111651.1E	459	640	FLG R	Wind turbine
	10104	VIK	585132.4N 0111657.8E	459	666	FLG R	Wind turbine
	10207	TÖFTEDAL	585227.7N 0114838.4E	492	1135	FLG R	Wind turbine
	10208	TÖFTEDAL	585215.4N 0114910.0E	492	1198	FLG R	Wind turbine
	10209	TÖFTEDAL	585155.1N 0114904.9E	492	1188	FLG R	Wind turbine
	10210	TÖFTEDAL	585153.7N 0114953.6E	492	1211	FLG R	Wind turbine
	10211	TÖFTEDAL	585138.9N 0114945.3E	492	1188	FLG R	Wind turbine
	10212	TÖFTEDAL	585134.9N 0114915.3E	492	1191	FLG R	Wind turbine
	10213	TÖFTEDAL	585121.3N 0114945.9E	492	1207	FLG R	Wind turbine
	10214	TÖFTEDAL	585105.7N 0114911.7E	492	1198	FLG R	Wind turbine
	10215	TÖFTEDAL	585054.9N 0114931.2E	492	1217	FLG R	Wind turbine
	10216	TÖFTEDAL	585051.4N 0114857.3E	492	1184	FLG R	Wind turbine
	10217	TÖFTEDAL	585040.0N 0114923.9E	492	1198	FLG R	Wind turbine
	10218	TÖFTEDAL	585031.4N 0115005.3E	492	1165	FLG R	Wind turbine
	10219	TÖFTEDAL	585023.7N 0115034.8E	492	1099	FLG R	Wind turbine
	10220	TÖFTEDAL	585028.7N 0115128.1E	492	1053	FLG R	Wind turbine
	10221	TÖFTEDAL	585035.7N 0115158.2E	492	1086	FLG R	Wind turbine
	10222	TÖFTEDAL	585231.4N 0114752.3E	492	1096	FLG R	Wind turbine
	10223	TÖFTEDAL	585103.3N 0115032.6E	492	1158	FLG R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	10224	TÖFTEDAL	585055.4N 0115102.6E	492	1109	FLG R	Wind turbine
	10225	TÖFTEDAL	585120.1N 0115106.7E	492	1112	FLG R	Wind turbine
	10226	TÖFTEDAL	585113.4N 0115136.3E	492	1132	FLG R	Wind turbine
	10227	TÖFTEDAL	585059.4N 0115143.5E	492	1083	FLG R	Wind turbine
	10233	BOKENÄS	581832.1N 0113746.8E	394	877	FLG R	Wind turbine
	10234	BOKENÄS	581827.6N 0113801.6E	394	841	FLG R	Wind turbine
	10550	TOLVMANSTEGEN	585248.3N 0112450.3E	492	942	FLG R	Wind turbine
	10551	TOLVMANSTEGEN	585247.9N 0112521.8E	492	1018	FLG R	Wind turbine
	10554	TOLVMANSTEGEN	585312.5N 0112418.0E	492	959	FLG R	Wind turbine
	10555	TOLVMANSTEGEN	585315.7N 0112454.4E	492	1053	FLG R	Wind turbine
	10556	TOLVMANSTEGEN	585305.1N 0112508.4E	492	1044	FLG R	Wind turbine
	10557	TOLVMANSTEGEN	585337.8N 0112357.5E	492	945	FLG R	Wind turbine
	10558	TOLVMANSTEGEN	585315.8N 0112530.3E	492	1085	FLG R	Wind turbine
	10559	TOLVMANSTEGEN	585342.9N 0112522.8E	492	1004	FLG R	Wind turbine
	10560	TOLVMANSTEGEN	585356.2N 0112503.8E	492	1070	FLG R	Wind turbine
	10561	TOLVMANSTEGEN	585405.3N 0112534.1E	492	1106	FLG R	Wind turbine
	10562	TOLVMANSTEGEN	585409.5N 0112510.1E	492	1075	FLG R	Wind turbine
	10563	TOLVMANSTEGEN	585328.2N 0112429.1E	492	978	FLG R	Wind turbine
	10564	TOLVMANSTEGEN	585329.3N 0112456.5E	492	1020	FLG R	Wind turbine
	10565	TOLVMANSTEGEN	585325.3N 0112516.2E	492	1076	FLG R	Wind turbine
	10566	TOLVMANSTEGEN	585341.0N 0112456.3E	492	1056	FLG R	Wind turbine
	10567	TOLVMANSTEGEN	585350.7N 0112412.5E	492	986	FLG R	Wind turbine
	10568	TOLVMANSTEGEN	585348.3N 0112439.9E	492	1017	FLG R	Wind turbine
	10569	TOLVMANSTEGEN	585403.8N 0112434.1E	492	1006	FLG R	Wind turbine
	10570	TOLVMANSTEGEN	585424.5N 0112524.2E	492	1043	FLG R	Wind turbine
	10571	TOLVMANSTEGEN	585421.7N 0112547.9E	492	1043	FLG R	Wind turbine
	10681	MUNKEDAL	583102.5N 0114417.7E	492	986	FLG R	Wind turbine
	10682	MUNKEDAL	583114.7N 0114359.8E	492	992	FLG R	Wind turbine
	10683	MUNKEDAL	583131.8N 0114413.6E	492	1088	FLG R	Wind turbine
	10949	HÄLLEVADSHOLM	583355.6N 0113023.0E	489	896	FLG R	Wind turbine
	10950	HÄLLEVADSHOLM	583402.4N 0113051.9E	489	886	FLG R	Wind turbine
	11106	GUNNARBY	582423.8N 0114116.8E	489	957	FLG R	Wind turbine
	11107	GUNNARBY	582405.8N 0114115.1E	489	903	FLG R	Wind turbine
	11108	GUNNARBY	582417.5N 0114055.5E	489	932	FLG R	Wind turbine
	11109	GUNNARBY	582340.6N 0114201.8E	489	922	FLG R	Wind turbine
	11110	GUNNARP	582318.4N 0114235.5E	489	886	FLG R	Wind turbine
	11111	GUNNARBY	582310.1N 0114302.8E	489	810	FLG R	Wind turbine
	11112	GUNNARBY	582355.9N 0114121.5E	489	922	FLG R	Wind turbine
	11113	GUNNARBY	582351.3N 0114139.4E	489	919	FLG R	Wind turbine
	11258	DINGLE	583212.7N 0112920.2E	489	928	FLG R	Wind turbine
	11259	DINGLE	583215.4N 0112952.3E	489	919	FLG R	Wind turbine
	11260	DINGLE	583229.2N 0112959.0E	489	827	FLG R	Wind turbine
	11261	DINGLE	583202.1N 0112941.5E	489	928	FLG R	Wind turbine
	11262	DINGLE	583210.1N 0112853.7E	489	951	FLG R	Wind turbine
	11263	DINGLE	583210.1N 0112824.6E	489	971	FLG R	Wind turbine
	11264	DINGLE	583239.0N 0113520.4E	489	1004	FLG R	Wind turbine
	11265	DINGLE	583227.4N 0113548.9E	489	965	FLG R	Wind turbine
	11266	DINGLE	583234.6N 0113616.7E	489	889	FLG R	Wind turbine
	11267	DINGLE	583220.7N 0113525.4E	489	981	FLG R	Wind turbine
	11268	DINGLE	583221.3N 0113627.2E	489	889	FLG R	Wind turbine
	11269	DINGLE	583233.9N 0113718.8E	489	886	FLG R	Wind turbine
	11878	TANUMSHED	584542.7N 0112449.0E	492	948	FLG R	Wind turbine
	11879	TANUMSHED	584551.9N 0112512.1E	492	978	FLG R	Wind turbine
	11880	TANUMSHED	584609.2N 0112524.8E	492	1021	FLG R	Wind turbine
	11881	TANUMSHED	584621.8N 0112550.1E	492	1039	FLG R	Wind turbine
	11882	TANUMSHED	584608.6N 0112607.3E	492	1017	FLG R	Wind turbine
	11883	TANUMSHED	584552.7N 0112610.7E	492	1043	FLG R	Wind turbine
	11884	TANUMSHED	584536.9N 0112616.9E	492	1007	FLG R	Wind turbine
	11885	TANUMSHED	584529.6N 0112550.5E	492	984	FLG R	Wind turbine
	11886	TANUMSHED	584613.9N 0112631.3E	492	1066	FLG R	Wind turbine
	11887	TANUMSHED	584602.8N 0112654.2E	492	1071	FLG R	Wind turbine
	11888	TANUMSHED	584547.2N 0112648.3E	492	1013	FLG R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	11989	TANUMSHEDE	584647.2N 0112344.5E	476	928	FLG R	Wind turbine
	11990	TANUMSHEDE	584659.7N 0112332.3E	476	928	FLG R	Wind turbine
	11991	TANUMSHEDE	584614.6N 0112318.6E	476	906	FLG R	Wind turbine
	11992	TANUMSHEDE	584631.3N 0112341.4E	476	942	FLG R	Wind turbine
	11993	TANUMSHEDE	584635.8N 0112408.8E	476	948	FLG R	Wind turbine
	11994	TANUMSHEDE	584606.3N 0112405.8E	476	935	FLG R	Wind turbine
	11995	TANUMSHEDE	584618.9N 0112419.1E	476	958	FLG R	Wind turbine
	11996	TANUMSHEDE	584631.3N 0112439.0E	476	1020	FLG R	Wind turbine
	12201	TANUMSHEDE	584444.0N 0112646.9E	492	908	FLG R	Wind turbine
	12384	STENUNGSUND	580741.7N 0115537.3E	410	849	FLG R	Wind turbine
	12822	HÄLLEVADSHOLM	583346.4N 0113001.1E	492	837	FLG R	Wind turbine
	12991	TANUMSHEDE	584556.1N 0112424.8E	364	768	FLG R	Wind turbine
	12992	TANUMSHEDE	584607.2N 0112441.7E	364	792	FLG R	Wind turbine
	12993	TANUMSHEDE	584618.1N 0112500.0E	364	848	FLG R	Wind turbine
	12994	TANUMSHEDE	584628.5N 0112508.2E	364	859	FLG R	Wind turbine
	13881	SKEE	585429.9N 0111833.2E	492	850	FLG R	Wind turbine
	13882	SKEE	585416.7N 0111849.0E	492	820	FLG R	Wind turbine
	15322	LUR	585048.2N 0112003.9E	656	1004	FLG W	Wind turbine
	15323	LUR	585025.7N 0111941.5E	656	978	FLG W	Wind turbine
	15324	LUR	585034.0N 0112016.5E	656	997	FLG W	Wind turbine
	15325	SKEE	585349.1N 0111557.2E	656	961	FLG W	Wind turbine
	15326	SKEE	585320.9N 0111521.3E	656	909	FLG W	Wind turbine
	15327	SKEE	585341.3N 0111524.5E	656	915	F R	Wind turbine
	15328	SKEE	585253.8N 0111555.8E	656	797	FLG W	Wind turbine
	15329	SKEE	585303.3N 0111534.2E	656	810	F R	Wind turbine
	15330	SKEE	585316.9N 0111548.9E	656	892	F R	Wind turbine
	15331	SKEE	585334.1N 0111549.8E	656	942	F R	Wind turbine
	15666	TORMOSERÖD	585138.6N 0112442.6E	656	1112	FLG W	Wind turbine
	15667	TORMOSERÖD	585136.8N 0112522.0E	656	1137	F R	Wind turbine
	15668	TORMOSERÖD	585140.1N 0112603.9E	656	1197	F R	Wind turbine
	15669	TORMOSERÖD	585154.7N 0112632.5E	656	1189	FLG W	Wind turbine
	15670	TORMOSERÖD	585151.6N 0112717.0E	656	1249	F R	Wind turbine
	15671	TORMOSERÖD	585146.2N 0112749.4E	656	1284	FLG W	Wind turbine
	15672	TORMOSERÖD	585130.9N 0112636.3E	656	1170	F R	Wind turbine
	15673	TORMOSERÖD	585119.8N 0112539.4E	656	1115	FLG W	Wind turbine
	15674	TORMOSERÖD	585105.5N 0112632.7E	656	1168	F R	Wind turbine
	15675	TORMOSERÖD	585128.0N 0112741.0E	656	1263	F R	Wind turbine
	15676	TORMOSERÖD	585107.1N 0112712.0E	656	1203	FLG W	Wind turbine
	16244	MOSOTEN	585348.9N 0114810.8E	390	1141	unknown	Mast
	16254	RUNNEMYR	585317.6N 0112347.1E	492	895	unknown	Wind turbine
	16255	LESTINGS MYR	585302.5N 0112436.8E	492	980	unknown	Wind turbine
	16881	ALMÖN	580334.7N 0114640.8E	387	423	unknown	Bridge
	16921	LUNNEBUKTEN	582045.5N 0112540.8E	331	454	unknown	Chimney
	16922	LUNNEBUKTEN	582042.9N 0112543.4E	348	468	unknown	Chimney
	17032	STENUNGSUND	580332.3N 0114702.6E	390	422	F R	Bridge
58N 12E	186	BÄCKEFORS	584920.1N 0121201.0E	1073	1820	F R/FLG W	Mast
	191	TROLLHÄTTAN/STRÖMSLUND	581721.7N 0121637.7E	397	688	F R	Mast
	4524	BÄCKEFORS	584920.3N 0121200.8E	449	1197	-	Mast
	5161	SKOG	583304.3N 0125919.7E (*)	328	538	F R	Wind turbine
	5295	HÄBERG	582002.4N 0123443.9E	328	489	F R	Wind turbine
	5786	FLO HALLEBO	582038.0N 0123740.1E	328	511	F R	Wind turbine
	5971	VÄRGARDA	580025.4N 0123348.3E	354	916	F R	Mast
	6430	FRITTORP	582046.8N 0124732.0E	328	561	F R	Wind turbine
	7098	BREDVIKEN	583232.4N 0123140.6E	328	531	F R	Wind turbine
	7631	ERIKSTAD	583717.4N 0122558.9E	328	541	F R	Wind turbine
	7767	BOLSTAD	583431.0N 0122739.9E	328	525	F R	Wind turbine
	8466	LILLA EDET	580833.8N 0120851.7E	331	784	F R	Wind turbine
	8516	VARA	581347.0N 0125955.2E (*)	328	614	F R	Wind turbine
	8583	JÄRN	583928.1N 0123153.3E	328	531	F R	Wind turbine
	8608	SÖDRA HÄRENE	580718.3N 0125126.1E	328	655	F R	Wind turbine
	8666	BRÅLANDA	583446.3N 0122242.2E	328	526	F R	Wind turbine
	8667	BRÅLANDA	583522.5N 0122226.9E	328	512	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	8671	BOLSTAD	583716.0N 0123142.8E	328	501	F R	Wind turbine
	8672	GRINSTAD	583718.3N 0123158.9E	328	500	F R	Wind turbine
	8711	BOLSTAD	583604.5N 0123319.5E	456	623	F R	Wind turbine
	8712	BOLSTAD	583610.2N 0123346.1E	456	625	F R	Wind turbine
	8713	BOLSTAD	583602.3N 0123403.5E	456	625	F R	Wind turbine
	8724	ARENTORP	581248.4N 0124934.9E	328	619	F R	Wind turbine
	8876	ST LEVENE	581859.2N 0125821.6E (*)	328	561	F R	Wind turbine
	8886	VARA	581549.8N 0125437.3E (*)	328	587	F R	Wind turbine
	9103	VÄNERSNÄS	582801.5N 0123639.4E	328	488	FLG R	Wind turbine
	9119	ERIKSTAD	583725.1N 0122338.8E	459	686	FLG R	Wind turbine
	9120	ERIKSTAD	583727.9N 0122407.0E	459	682	FLG R	Wind turbine
	9121	ERIKSTAD	583712.7N 0122421.2E	459	679	FLG R	Wind turbine
	9122	ERIKSTAD	583710.5N 0122343.8E	459	685	FLG R	Wind turbine
	9134	ERIKSTAD	583528.0N 0122501.9E	459	653	FLG R	Wind turbine
	9135	ERIKSTAD	583516.8N 0122520.4E	459	653	FLG R	Wind turbine
	9178	STORA MELLBY	581000.9N 0123825.6E	328	738	FLG R	Wind turbine
	9254	ST LEVENE	581925.9N 0125741.2E (*)	328	571	F R	Wind turbine
	9302	RYDA	581714.1N 0125358.9E (*)	335	597	FLG R	Wind turbine
	9408	HÄBERG	581948.1N 0123459.5E	492	656	FLG R	Wind turbine
	9409	HÄBERG	582007.7N 0123506.6E	492	656	FLG R	Wind turbine
	9410	GRÄSTORP	582106.9N 0123730.3E	492	667	FLG R	Wind turbine
	9417	VARA	581603.6N 0125219.6E (*)	328	600	F R	Wind turbine
	9446	HÅKANTORP	581816.9N 0125541.2E (*)	456	696	FLG R	Wind turbine
	9447	HÅKANTORP	581831.1N 0125559.6E (*)	456	692	FLG R	Wind turbine
	9471	GRINSTAD	583635.0N 0123026.5E	456	621	FLG R	Wind turbine
	9472	GRINSTAD	583618.5N 0123029.8E	456	621	FLG R	Wind turbine
	9482	VARA	581655.6N 0125918.9E (*)	459	719	FLG R	Wind turbine
	9483	VARA	581702.2N 0125829.9E (*)	459	719	FLG R	Wind turbine
	9484	VARA	581658.8N 0125855.5E (*)	459	712	FLG R	Wind turbine
	9542	ESSUNGA	581144.9N 0124949.6E	492	784	FLG R	Wind turbine
	9543	ESSUNGA	581132.1N 0124940.9E	509	807	FLG R	Wind turbine
	9717	LILLA EDET	580829.4N 0120905.1E	331	797	FLG R	Wind turbine
	9774	FLAKEBERG	582012.0N 0124707.1E	459	687	FLG R	Wind turbine
	9775	FLAKEBERG	581959.3N 0124714.9E	459	688	FLG R	Wind turbine
	9776	FLAKEBERG	581946.7N 0124722.6E	459	692	FLG R	Wind turbine
	9777	FLAKEBERG	581923.3N 0124829.5E	459	702	FLG R	Wind turbine
	9778	VARA	581922.2N 0124802.4E	459	693	FLG R	Wind turbine
	9817	LILLA EDET	580854.0N 0120938.8E	456	906	FLG R	Wind turbine
	9818	LILLA EDET	580845.3N 0120839.4E	456	841	FLG R	Wind turbine
	9819	LILLA EDET	580859.9N 0121004.5E	456	843	FLG R	Wind turbine
	9830	GRÄSTORP	582141.2N 0123655.4E	492	662	FLG R	Wind turbine
	9987	GRINSTAD	583742.0N 0123004.6E	492	689	FLG R	Wind turbine
	10016	ERIKSTAD	583710.0N 0122542.5E	492	707	FLG R	Wind turbine
	10074	ERIKSTAD	583830.0N 0122556.6E	492	704	FLG R	Wind turbine
	10075	ERIKSTAD	583821.9N 0122625.2E	492	702	FLG R	Wind turbine
	10078	SVECKLINGEBYN	583924.7N 0122335.4E	492	723	FLG R	Wind turbine
	10079	SVECKLINGEBYN	583908.9N 0122354.1E	492	719	FLG R	Wind turbine
	10080	BOLSTAD	583414.4N 0122807.2E	489	671	FLG R	Wind turbine
	10125	BOLSTAD	583455.5N 0122930.0E	489	654	FLG R	Wind turbine
	10126	BOLSTAD	583459.9N 0122901.3E	489	653	FLG R	Wind turbine
	10127	BRÅLANDA	583438.0N 0122223.5E	489	686	FLG R	Wind turbine
	10128	BRÅLANDA	583436.8N 0122153.1E	489	689	FLG R	Wind turbine
	10203	LILLA EDET	580916.7N 0120846.9E	492	924	FLG R	Wind turbine
	10204	LILLA EDET	580901.5N 0120856.6E	492	912	FLG R	Wind turbine
	10205	LILLA EDET	580822.3N 0120931.7E	492	914	FLG R	Wind turbine
	10278	RANGELTORP	581323.5N 0125955.2E (*)	489	784	FLG R	Wind turbine
	10504	GRÄSTORP	581738.1N 0124636.6E	459	709	FLG R	Wind turbine
	10505	GRÄSTORP	581721.9N 0124629.2E	459	712	FLG R	Wind turbine
	10761	LILLA EDET	580617.3N 0120423.9E	459	932	FLG R	Wind turbine
	10762	LILLA EDET	580633.0N 0120448.9E	459	887	FLG R	Wind turbine
	13130	RÄNSLIDEN	585025.9N 0121903.6E	656	1322	FLG W	Wind turbine
	13131	RÄNSLIDEN	585009.3N 0121857.7E	656	1273	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13132	RÄNSLIDEN	584951.2N 0121855.0E	656	1260	FLG W	Wind turbine
	13133	RÄNSLIDEN	585030.9N 0121827.3E	656	1319	F R	Wind turbine
	13134	RÄNSLIDEN	585014.5N 0121812.8E	656	1322	F R	Wind turbine
	13135	RÄNSLIDEN	584958.4N 0121817.1E	656	1306	FLG W	Wind turbine
	13136	RÄNSLIDEN	585026.9N 0121750.5E	656	1322	FLG W	Wind turbine
	14406	SVENSHÖGEN	580949.3N 0120042.6E	591	1066	FLG W	Wind turbine
	14407	SVENSHÖGEN	580926.6N 0120047.0E	591	1102	FLG W	Wind turbine
	14408	SVENSHÖGEN	580933.8N 0120142.9E	591	1102	FLG W	Wind turbine
	14440	SVARTEHALLEN	580656.6N 0120023.4E	591	1063	FLG W	Wind turbine
	14441	SVARTEHALLEN	580620.0N 0120059.6E	591	1073	FLG W	Wind turbine
	14442	SVARTEHALLEN	580619.1N 0120134.1E	591	1083	FLG W	Wind turbine
	15225	KINGEBOL	585539.0N 0123403.7E	656	1073	FLG R	Wind turbine
	15226	KINGEBOL	585520.1N 0123340.4E	656	1073	FLG R	Wind turbine
	15227	KINGEBOL	585456.4N 0123338.2E	656	1040	FLG W	Wind turbine
	15228	KINGEBOL	585510.0N 0123410.2E	656	1060	FLG W	Wind turbine
	15229	KINGEBOL	585534.3N 0123322.6E	656	1099	FLG W	Wind turbine
	15230	KINGEBOL	585553.1N 0123354.0E	656	1076	FLG W	Wind turbine
	16249	LILLA FÄRHAGA	581126.8N 0125704.8E	328	636	unknown	Wind turbine
	16250	HASSLEDALEN	583215.5N 0123121.3E	492	709	unknown	Wind turbine
	16251	JÄRBORÖS	583212.4N 0123147.2E	492	716	unknown	Wind turbine
	16252	HASSLEDALEN	583159.3N 0123134.6E	492	707	unknown	Wind turbine
58N 13E	199	SKÖVDE/BILLINGEN	582435.2N 0134848.5E	1070	2000	FLG W	Mast
	776	BILLINGEN 2	582604.0N 0134907.0E	358	1317	F R	Mast
	4523	SKÖVDE/BILLINGEN	582435.4N 0134847.9E	328	1265	F R	Mast
	5759	STORA LUND	582816.2N 0132758.7E (*)	328	741	F R	Wind turbine
	6000	ERIKSTORP	582743.6N 0133220.8E (*)	328	735	F R	Wind turbine
	6063	MÖNARP	580551.8N 0133034.4E	328	978	F R	Wind turbine
	6064	MÖNARP	580557.2N 0133022.5E	328	976	F R	Wind turbine
	6188	MÄRENE	582532.1N 0132915.2E (*)	328	728	F R	Wind turbine
	6233	SKARA	582721.8N 0133431.6E (*)	328	755	F R	Wind turbine
	6368	NOLGÅRDEN	580505.2N 0134233.7E	328	1084	F R	Wind turbine
	6689	BROBY	583005.2N 0132217.1E (*)	328	545	F R	Wind turbine
	6786	MÖRKAGÅRDEN	581700.9N 0131332.6E (*)	328	630	F R	Wind turbine
	6963	LEDSJÖ	582806.5N 0132909.0E (*)	328	758	F R	Wind turbine
	6981	LEDSJÖ	582724.7N 0132807.5E (*)	328	725	F R	Wind turbine
	7060	LUNDSBRUNN	582910.6N 0132400.9E (*)	328	577	F R	Wind turbine
	7249	N VÅNGA	581627.2N 0131529.0E (*)	328	653	F R	Wind turbine
	7408	SKÅNINGS-ÅSAKA	582544.5N 0133009.4E (*)	328	722	F R	Wind turbine
	7409	STOMMEN	582312.1N 0131206.9E (*)	328	561	F R	Wind turbine
	7595	DIMBO	580934.4N 0134836.1E	328	1115	F R	Wind turbine
	7643	LUNDSBRUNN	582802.4N 0132743.2E (*)	328	738	F R	Wind turbine
	7687	HANGELÖSA	582811.0N 0132037.9E (*)	328	587	F R	Wind turbine
	7721	BROBY	582937.1N 0132235.2E (*)	328	568	F R	Wind turbine
	7722	SKALLMEJA	582349.7N 0131138.5E (*)	328	564	F R	Wind turbine
	7840	SANDHEM	580055.0N 0134903.6E	328	1250	F R	Wind turbine
	7905	KINNARP	580508.9N 0132917.1E	331	979	F R	Wind turbine
	8326	EGGBY	582618.6N 0133530.9E (*)	328	761	F R	Wind turbine
	8330	BRUNNSGRÅDEN	580448.1N 0134254.7E	335	1086	F R	Wind turbine
	8331	BROBY	583014.7N 0132135.1E (*)	335	564	F R	Wind turbine
	8350	KVÄNUM	581706.3N 0131346.5E (*)	331	633	F R	Wind turbine
	8351	KVÄNUM	581710.5N 0131333.0E (*)	331	633	F R	Wind turbine
	8387	LANNA	582143.1N 0130918.8E (*)	459	705	F R	Wind turbine
	8388	LANNA	582133.9N 0130936.6E (*)	459	709	F R	Wind turbine
	8417	SALEBY	582254.8N 0131211.9E (*)	335	574	FLG R	Wind turbine
	8497	LUNDSBRUNN	582712.0N 0133036.5E (*)	328	741	FLG R	Wind turbine
	8515	SKÅNINGS ÅSAKA	582656.9N 0133313.7E (*)	328	761	F R	Wind turbine
	8522	HÄRJEVAD	582224.0N 0130325.0E (*)	328	558	FLG R	Wind turbine
	8573	SYNNERBY	582244.3N 0131759.2E (*)	390	686	FLG R	Wind turbine
	8574	SYNNERBY	582242.0N 0131823.4E (*)	390	689	FLG R	Wind turbine
	8575	LUTTRA	580650.9N 0133338.4E	390	1119	FLG R	Wind turbine
	8578	LOVENE	582559.8N 0130233.0E (*)	328	528	FLG R	Wind turbine
	8579	HJÄLSTAD	583553.2N 0135940.3E	335	581	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	8622	N VÅNGA	581550.1N 0131519.1E (*)	328	659	FLG R	Wind turbine
	8668	KVÅNUM	581814.4N 0130828.1E (*)	459	719	FLG R	Wind turbine
	8688	SKÖRSTORP	580722.2N 0134444.4E	456	1239	F R	Wind turbine
	8689	SKÖRSTORP	580712.4N 0134450.8E	456	1243	F R	Wind turbine
	8690	SKÖRSTORP	580702.2N 0134457.5E	456	1250	F R	Wind turbine
	8722	KVÅNUM	581807.1N 0130742.8E (*)	459	719	FLG R	Wind turbine
	8845	BROBY	582957.2N 0132230.1E (*)	328	558	F R	Wind turbine
	8846	BROBY	582948.2N 0132238.5E (*)	328	561	FLG W	Wind turbine
	8850	ESKILSÅTER	585811.9N 0131237.2E	328	538	F R	Wind turbine
	8871	FALKÖPING	580620.5N 0132639.8E	328	971	F R	Wind turbine
	8973	YLLESTAD	580318.5N 0134346.8E	328	1116	F R	Wind turbine
	9075	VEDUM	581232.2N 0130319.9E (*)	328	646	F R	Wind turbine
	9089	SANDHEM	580103.4N 0134922.4E	459	1375	FLG R	Wind turbine
	9209	HASSLÖSA	582542.1N 0131510.6E (*)	328	597	F R	Wind turbine
	9210	GUDHEM	581318.5N 0133327.4E (*)	328	1076	F R	Wind turbine
	9216	GÖTENE	583307.0N 0133108.4E (*)	456	702	F R	Wind turbine
	9227	HJÄLSTAD	583645.3N 0135623.3E	328	614	F R	Wind turbine
	9245	NAGLARP	580517.3N 0132912.9E	328	973	F R	Wind turbine
	9344	SKÖVDE	582247.2N 0135120.5E	328	787	F R	Chimney
	9361	KÄLVENE	580508.6N 0134218.7E	492	1247	FLG R	Wind turbine
	9404	LOVENE	582559.3N 0130139.5E (*)	328	531	FLG R	Wind turbine
	9405	LOVENE	582600.9N 0130123.2E (*)	328	551	FLG R	Wind turbine
	9406	LOVENE	582551.5N 0130215.5E (*)	328	531	FLG R	Wind turbine
	9450	GÖTENE	583020.9N 0132919.5E (*)	456	728	FLG R	Wind turbine
	9544	KVÅNUM	581723.0N 0131402.4E (*)	492	810	FLG R	Wind turbine
	9584	LUNDSBRUNN	582703.7N 0132714.0E (*)	456	850	F R	Wind turbine
	9585	LUNDSBRUNN	582710.2N 0132743.3E (*)	456	850	F R	Wind turbine
	9586	LUNDSBRUNN	582711.7N 0132833.3E (*)	456	850	F R	Wind turbine
	9587	LUNDSBRUNN	582700.6N 0132840.8E (*)	456	883	F R	Wind turbine
	9589	LUNDSBRUNN	582658.7N 0132905.9E (*)	456	866	F R	Wind turbine
	9592	LUNDSBRUNN	582808.2N 0132933.4E (*)	413	856	F R	Wind turbine
	9621	ERIKSTORP	582715.9N 0133200.6E (*)	486	873	FLG R	Wind turbine
	9661	LUNDSBRUNN	582758.5N 0132759.2E (*)	328	771	F R	Wind turbine
	9662	SKARSTAD	581652.5N 0130153.7E (*)	456	712	F R	Wind turbine
	9669	SIMMATORP	582147.0N 0132142.6E (*)	492	853	FLG R	Wind turbine
	9732	JUNG	581957.3N 0131019.5E (*)	492	735	FLG R	Wind turbine
	9733	JUNG	581957.1N 0131050.3E (*)	492	741	FLG R	Wind turbine
	9737	LUNDSBRUNN	582846.6N 0132944.4E (*)	492	879	FLG R	Wind turbine
	9738	LUNDSBRUNN	582907.9N 0132841.4E (*)	492	869	FLG R	Wind turbine
	9739	LUNDSBRUNN	582912.4N 0132817.4E (*)	492	869	FLG R	Wind turbine
	9740	SIMMATORP	582157.3N 0132206.4E (*)	492	853	FLG R	Wind turbine
	9741	SIMMATORP	582158.2N 0132230.4E (*)	492	863	FLG R	Wind turbine
	9772	JÄRPÅS	582150.0N 0130100.7E (*)	459	689	FLG R	Wind turbine
	9773	JÄRPÅS	582140.7N 0130117.7E (*)	459	689	FLG R	Wind turbine
	9796	SKÅNING-SÅSAKA	582544.8N 0132916.2E (*)	456	840	FLG R	Wind turbine
	9797	SKÅNING-SÅSAKA	582554.6N 0132938.5E (*)	456	850	FLG R	Wind turbine
	9798	SKÅNING-SÅSAKA	582554.3N 0133006.3E (*)	456	850	FLG R	Wind turbine
	9821	KÄLLEBERG	580823.5N 0134217.2E	492	1263	FLG R	Wind turbine
	9822	KÄLLEBERG	580840.7N 0134222.4E	492	1266	FLG R	Wind turbine
	9823	KÄLLEBERG	580857.8N 0134227.6E	492	1273	FLG R	Wind turbine
	9824	KÄLLEBERG	580822.1N 0134146.1E	492	1243	FLG R	Wind turbine
	9825	KÄLLEBERG	580840.3N 0134151.4E	492	1224	FLG R	Wind turbine
	9832	VARTOFTA	580524.5N 0134219.9E	492	1240	FLG R	Wind turbine
	9833	VARTOFTA	580511.6N 0134142.8E	492	1237	FLG R	Wind turbine
	10084	LUNDSBRUNN	582839.4N 0132450.9E (*)	492	781	FLG R	Wind turbine
	10098	TRÅVAD	581441.5N 0130332.8E (*)	492	774	FLG R	Wind turbine
	10099	TRÅVAD	581354.4N 0130347.9E (*)	492	781	FLG R	Wind turbine
	10100	TRÅVAD	581337.3N 0130458.2E (*)	492	781	FLG R	Wind turbine
	10131	LARV	581236.3N 0130655.5E (*)	456	794	FLG R	Wind turbine
	10132	LARV	581252.7N 0130642.8E (*)	456	774	FLG R	Wind turbine
	10133	LARV	581257.6N 0130707.8E (*)	456	784	FLG R	Wind turbine
	10139	ERIKSTORP	582729.4N 0133234.5E (*)	489	892	FLG R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	10258	SKARA	582323.9N 0132302.6E (*)	489	843	FLG R	Wind turbine
	10259	SKARA	582336.4N 0132300.7E (*)	489	846	FLG R	Wind turbine
	10279	RANGELTORP	581325.4N 0130019.2E (*)	489	791	FLG R	Wind turbine
	10519	SUNDSMARKEN	584714.4N 0135609.2E (*)	476	656	FLG R	Wind turbine
	10520	SUNDSMARKEN	584642.2N 0135627.4E (*)	476	702	FLG R	Wind turbine
	10521	SUNDSMARKEN	584657.9N 0135601.9E (*)	476	682	FLG R	Wind turbine
	10522	HÄRJEVAD	582051.4N 0130319.3E (*)	459	696	FLG R	Wind turbine
	10523	HÄRJEVAD	582058.5N 0130258.7E (*)	459	699	FLG R	Wind turbine
	10623	RANGELTORP	581254.5N 0130059.4E (*)	492	791	FLG R	Wind turbine
	10624	SALEBY	582208.5N 0131109.1E (*)	390	643	FLG R	Wind turbine
	10625	SALEBY	582215.0N 0131126.7E (*)	390	623	FLG R	Wind turbine
	10626	SALEBY	582209.2N 0131145.3E (*)	390	627	FLG R	Wind turbine
	10627	SALEBY	582202.4N 0131128.3E (*)	390	627	FLG R	Wind turbine
	10664	VINKÖL	582026.1N 0131605.6E (*)	492	794	FLG R	Wind turbine
	10665	VINKÖL	582026.2N 0131633.4E (*)	492	801	FLG R	Wind turbine
	10666	VINKÖL	582026.4N 0131701.2E (*)	492	804	FLG R	Wind turbine
	10667	VINKÖL	582107.0N 0131353.2E (*)	492	768	FLG R	Wind turbine
	10668	VINKÖL	582057.5N 0131416.3E (*)	492	768	FLG R	Wind turbine
	10669	VINKÖL	582112.5N 0131422.3E (*)	492	768	FLG R	Wind turbine
	10677	SKALLMEJA	582346.8N 0131212.6E (*)	459	702	FLG R	Wind turbine
	10691	ARNÄS	583852.7N 0133640.0E (*)	328	574	F R	Mast
	10773	KVÄNUM	581624.3N 0130802.9E (*)	459	735	FLG R	Wind turbine
	10774	KVÄNUM	581642.4N 0130802.6E (*)	459	728	FLG R	Wind turbine
	10775	KVÄNUM	581649.5N 0130849.8E (*)	459	719	FLG R	Wind turbine
	10776	KVÄNUM	581637.2N 0130822.9E (*)	459	728	FLG R	Wind turbine
	10886	SKARSTAD	581821.8N 0130240.4E (*)	459	705	FLG R	Wind turbine
	11378	TORKELSTORP	582140.6N 0131315.5E (*)	456	735	FLG R	Wind turbine
	11379	TORKELSTORP	582136.5N 0131250.4E (*)	456	732	FLG R	Wind turbine
	11441	JUNG	581855.6N 0130747.6E (*)	459	712	FLG R	Wind turbine
	11620	FLOBY	580754.7N 0131747.3E	489	1047	FLG R	Wind turbine
	11694	JUNG	581910.2N 0130408.9E (*)	492	728	FLG R	Wind turbine
	11695	JUNG	581914.5N 0130432.8E (*)	492	735	FLG R	Wind turbine
	11696	JUNG	581917.6N 0130349.5E (*)	492	728	FLG R	Wind turbine
	11697	JUNG	581921.9N 0130412.5E (*)	492	728	FLG R	Wind turbine
	11698	JUNG	581901.8N 0130429.2E (*)	492	735	FLG R	Wind turbine
	11699	JUNG	581907.7N 0130451.6E (*)	492	735	FLG R	Wind turbine
	11721	ARDALA	582149.4N 0131523.1E (*)	492	787	FLG R	Wind turbine
	11722	ARDALA	582146.2N 0131553.3E (*)	492	787	FLG R	Wind turbine
	11723	ARDALA	582152.2N 0131453.0E (*)	492	774	FLG R	Wind turbine
	12266	HJÄLSTAD	583618.2N 0135950.1E	328	565	F R	Wind turbine
	13327	ANNEBERG	580842.8N 0134745.3E	568	1368	FLG W	Wind turbine
	13328	ANNEBERG	580828.3N 0134735.4E	568	1365	FLG W	Wind turbine
	13329	ANNEBERG	580813.9N 0134725.6E	568	1368	FLG W	Wind turbine
	14507	SKÖVDE	582308.4N 0135111.7E	328	787	F R	Chimney
	15663	FALKÖPING	580700.9N 0132313.0E	656	1295	FLG W	Wind turbine
	15664	FALKÖPING	580643.4N 0132310.1E	656	1297	FLG W	Wind turbine
	15665	FALKÖPING	580623.0N 0132312.6E	656	1289	FLG W	Wind turbine
	15681	ARDALA	582017.1N 0132105.5E	492	843	FLG R	Wind turbine
	16956	VÅMB	582303.8N 0134929.2E	335	841	unknown	Chimney
	17305	RÄVKULLEN	580604.3N 0133000.9E	335	980	unknown	Wind turbine
	17306	RÄVKULLEN	580611.1N 0133019.9E	335	982	unknown	Wind turbine
	17307	LILLEGÅRDSDUNGEN	580612.8N 0132957.4E	335	980	unknown	Wind turbine
	17308	RÄVKULLEN	580603.6N 0133034.8E	335	981	unknown	Wind turbine
	17309	GAMMELSTATEN	580701.7N 0134251.3E	492	1234	unknown	Wind turbine
	17310	SMÅLAND	580644.1N 0134233.0E	492	1246	unknown	Wind turbine
58N 14E	5156	BJÄLBO	582227.5N 0145907.7E	331	715	F R	Wind turbine
	5897	SKEBY	581851.7N 0145318.5E	331	725	F R	Wind turbine
	5898	SKEBY	581900.7N 0145312.4E	331	725	F R	Wind turbine
	5899	SKEBY	581909.7N 0145306.2E	331	696	F R	Wind turbine
	7054	HOGSTAD	582003.9N 0145710.7E	328	719	F R	Wind turbine
	7560	HAMMAR	584901.8N 0145536.4E (*)	328	663	F R	Wind turbine
	7596	TIDAHOLM	581052.8N 0140540.3E	328	950	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	7606	DJURSÅTRA	582025.3N 0140410.9E	331	746	F R	Wind turbine
	7670	VÅRSÅS	582216.3N 0140725.9E	331	725	F R	Wind turbine
	8436	KUNGSRYD	582347.0N 0140435.9E	335	768	F R	Wind turbine
	8465	KORSBERGA	581927.6N 0140843.9E	331	766	F R	Wind turbine
	8489	HJO	582119.2N 0141627.9E	331	1007	F R	Wind turbine
	8535	BLIKSTORP	581809.2N 0140317.5E	328	738	F R	Wind turbine
	8536	KORSBERGA	581905.7N 0140632.1E	328	739	F R	Wind turbine
	8795	HÖKENSÅS	581247.3N 0140827.0E	331	1027	F R	Wind turbine
	8868	BLIKSTORP	581758.7N 0140315.0E	328	739	F R	Wind turbine
	8869	BLIKSTORP	581805.6N 0140255.8E	328	738	F R	Wind turbine
	9051	MILLINGSTORP	581723.8N 0144610.8E	328	696	F R	Wind turbine
	9052	RÖK	581803.6N 0144758.3E	328	696	F R	Wind turbine
	9132	BJÄLBO	582242.8N 0145900.1E	328	696	F R	Wind turbine
	9133	BJÄLBO	582235.4N 0145903.6E	328	692	F R	Wind turbine
	9232	VÄDERSTAD	581957.7N 0145442.0E	328	652	F R	Wind turbine
	9304	HOGSTAD	581955.7N 0145712.5E	328	719	FLG R	Wind turbine
	9305	HOGSTAD	581947.4N 0145714.3E	328	702	FLG R	Wind turbine
	9313	SÅTRA	584135.3N 0142015.4E (*)	328	840	F R	Mast
	9320	SKEBY	581918.8N 0145259.9E	328	689	FLG R	Wind turbine
	9365	APPUNA	582120.5N 0145747.0E	390	742	FLG R	Wind turbine
	9507	N HULAN	581644.0N 0141333.5E	459	1204	FLG R	Wind turbine
	9508	N HULAN	581648.7N 0141315.0E	459	1184	FLG R	Wind turbine
	9563	KROKEK	580821.2N 0143517.4E	328	991	FLG R	Wind turbine
	9656	KORSBERGA	581814.8N 0141004.0E	492	1148	F R	Wind turbine
	9694	VADSTENA	582910.5N 0145743.6E	459	774	FLG R	Wind turbine
	9695	VADSTENA	582856.0N 0145743.9E	459	778	FLG R	Wind turbine
	9714	TIDAHOLM	581008.1N 0140901.4E	492	1132	FLG R	Wind turbine
	10026	BRAHEHUS	580338.5N 0143139.2E	492	1414	FLG R	Wind turbine
	10027	BRAHEHUS	580326.6N 0143103.0E	492	1404	FLG R	Wind turbine
	10028	BRAHEHUS	580315.9N 0143132.6E	492	1440	FLG R	Wind turbine
	10029	BRAHEHUS	580300.9N 0143143.3E	492	1427	FLG R	Wind turbine
	10030	BRAHEHUS	580231.7N 0143118.9E	492	1447	FLG R	Wind turbine
	10031	BRAHEHUS	580249.1N 0143105.0E	492	1421	FLG R	Wind turbine
	10032	BRAHEHUS	580240.8N 0143017.7E	492	1457	FLG R	Wind turbine
	10033	BRAHEHUS	580224.6N 0143008.1E	492	1467	FLG R	Wind turbine
	10034	BRAHEHUS	580211.1N 0143033.4E	492	1449	FLG R	Wind turbine
	10076	FORSVIK	583506.3N 0142046.5E	492	1171	FLG R	Wind turbine
	10077	FORSVIK	583512.2N 0142116.0E	492	1152	FLG R	Wind turbine
	10137	HÄSTHOLMEN	581556.3N 0143732.2E	328	676	FLG R	Wind turbine
	10138	HÄSTHOLMEN	581555.4N 0143753.3E	328	686	FLG R	Wind turbine
	10142	TUGGARP	580430.3N 0143424.2E	492	1362	FLG R	Wind turbine
	10143	TUGGARP	580420.5N 0143407.6E	492	1368	FLG R	Wind turbine
	10144	TUGGARP	580413.3N 0143344.1E	492	1368	FLG R	Wind turbine
	10145	TUGGARP	580409.3N 0143318.8E	492	1368	FLG R	Wind turbine
	10237	OTTERBÄCKEN	585552.9N 0140308.0E (*)	492	778	FLG R	Wind turbine
	10238	OTTERBÄCKEN	585537.8N 0140254.3E (*)	492	761	FLG R	Wind turbine
	10239	OTTERBÄCKEN	585525.1N 0140240.3E (*)	492	758	FLG R	Wind turbine
	10322	STENBODA	585353.9N 0144518.3E (*)	328	906	F R	Mast
	10337	GRIPENBERG	580005.5N 0144930.2E	492	1270	FLG R	Wind turbine
	10372	HOVA	585210.5N 0140903.6E (*)	394	755	F R	Mast
	10413	SJÖTORP	585143.4N 0140336.9E (*)	489	801	FLG R	Wind turbine
	10414	SJÖTORP	585128.8N 0140336.2E (*)	489	801	FLG R	Wind turbine
	10419	APPUNA	582135.5N 0145736.7E	492	843	FLG R	Wind turbine
	10420	APPUNA	582151.0N 0145726.0E	492	846	FLG R	Wind turbine
	10901	BORGHAMN	582338.3N 0144331.4E	459	778	FLG R	Wind turbine
	11064	GÅRDSJÖ	585332.1N 0142204.7E (*)	459	1040	FLG R	Wind turbine
	11065	GÅRDSJÖ	585319.8N 0142212.4E (*)	459	1037	FLG R	Wind turbine
	11243	MOHOLM	583620.4N 0140635.5E	331	630	F R	Mast
	11470	BORGHAMN	582402.7N 0144320.8E	459	758	FLG R	Wind turbine
	11477	VÄDERSTAD	581747.4N 0145144.5E	476	906	FLG R	Wind turbine
	11478	VÄDERSTAD	581733.0N 0145140.0E	476	928	FLG R	Wind turbine
	11705	SVINNERSTA	585605.1N 0144913.1E (*)	328	919	F R	Mast

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	11819	VÄSTANSJÖ	585211.0N 0142839.2E (*)	476	1145	FLG R	Wind turbine
	11820	VÄSTANSJÖ	585151.3N 0142839.9E (*)	476	1070	FLG R	Wind turbine
	11821	VÄSTANSJÖ	585138.1N 0142901.8E (*)	476	1168	FLG R	Wind turbine
	11822	VÄSTANSJÖ	585036.7N 0142946.2E (*)	476	1106	FLG R	Wind turbine
	11823	VÄSTANSJÖ	585048.3N 0142916.4E (*)	476	1135	FLG R	Wind turbine
	11824	VÄSTANSJÖ	585104.8N 0142908.1E (*)	476	1155	FLG R	Wind turbine
	11825	VÄSTANSJÖ	585123.7N 0142900.5E (*)	476	1155	FLG R	Wind turbine
	12120	HJO	581004.3N 0140820.7E	492	1155	FLG R	Wind turbine
	12121	HJO	581012.1N 0140839.8E	492	1115	FLG R	Wind turbine
	12126	HJO	581126.6N 0140850.2E	492	1204	FLG R	Wind turbine
	12127	HJO	580952.8N 0140755.8E	476	1158	FLG R	Wind turbine
	12128	HJO	580940.9N 0140817.4E	476	1243	FLG R	Wind turbine
	12129	HJO	580926.3N 0140816.8E	476	1220	FLG R	Wind turbine
	12131	HJO	580834.0N 0141033.2E	476	1273	FLG R	Wind turbine
	12132	HJO	580838.4N 0141100.1E	476	1273	FLG R	Wind turbine
	12133	HJO	580815.4N 0141013.7E	476	1260	FLG R	Wind turbine
	12134	HJO	580820.2N 0141041.4E	476	1250	FLG R	Wind turbine
	12135	HJO	580823.2N 0141106.4E	476	1234	FLG R	Wind turbine
	12919	LYRESTAD	584726.6N 0140124.8E (*)	656	1014	FLG W	Wind turbine
	12920	LYRESTAD	584722.1N 0140154.4E (*)	656	984	F R	Wind turbine
	12921	LYRESTAD	584710.5N 0140121.2E (*)	656	1017	F R	Wind turbine
	12922	LYRESTAD	584703.5N 0140206.2E (*)	656	1017	FLG W	Wind turbine
	12923	LYRESTAD	584656.4N 0140054.4E (*)	656	1014	FLG W	Wind turbine
	12924	LYRESTAD	584653.6N 0140140.0E (*)	656	1050	F R	Wind turbine
	12925	LYRESTAD	584649.8N 0140226.0E (*)	656	1007	F R	Wind turbine
	12926	LYRESTAD	584640.5N 0140157.6E (*)	656	1001	F R	Wind turbine
	12927	LYRESTAD	584635.3N 0140239.7E (*)	656	984	FLG W	Wind turbine
	12928	LYRESTAD	584626.1N 0140213.3E (*)	656	984	F R	Wind turbine
	12929	LYRESTAD	584624.6N 0140106.0E (*)	656	1050	F R	Wind turbine
	12930	LYRESTAD	584612.1N 0140126.1E (*)	656	1043	F R	Wind turbine
	12931	LYRESTAD	584608.5N 0140156.9E (*)	656	1001	F R	Wind turbine
	12932	LYRESTAD	584557.7N 0140110.4E (*)	656	1024	F R	Wind turbine
	12933	LYRESTAD	584553.0N 0140155.7E (*)	656	1017	F R	Wind turbine
	12934	LYRESTAD	584545.6N 0140224.3E (*)	656	1017	FLG W	Wind turbine
	12935	LYRESTAD	584550.4N 0140039.1E (*)	656	1017	FLG W	Wind turbine
	12936	LYRESTAD	584541.6N 0140106.4E (*)	656	1017	F R	Wind turbine
	12937	LYRESTAD	584534.6N 0140139.7E (*)	656	1017	FLG W	Wind turbine
	12938	LYRESTAD	584533.4N 0140031.2E (*)	656	1004	F R	Wind turbine
	12939	LYRESTAD	584525.3N 0140058.9E (*)	656	1017	F R	Wind turbine
	12940	LYRESTAD	584518.0N 0140020.4E (*)	656	1017	FLG W	Wind turbine
	12952	VILSEBERGA	582414.9N 0144550.3E	476	804	FLG R	Wind turbine
	12953	VILSEBERGA	582406.9N 0144557.9E	476	804	FLG R	Wind turbine
	13284	LAXÅ	585635.2N 0144025.7E (*)	656	1148	FLG W	Wind turbine
	13285	LAXÅ	585647.6N 0144147.5E (*)	656	1214	FLG W	Wind turbine
	13286	LAXÅ	585652.4N 0144109.7E (*)	656	1184	FLG W	Wind turbine
	13287	LAXÅ	585636.7N 0144108.5E (*)	656	1237	F R	Wind turbine
	13288	LAXÅ	585618.0N 0144156.8E (*)	656	1184	FLG W	Wind turbine
	13289	LAXÅ	585619.8N 0144033.8E (*)	656	1148	F R	Wind turbine
	13290	LAXÅ	585602.8N 0144053.2E (*)	656	1178	FLG W	Wind turbine
	13586	TIDAHOLM	580612.8N 0140224.5E	591	1686	FLG W	Wind turbine
	13587	TIDAHOLM	580555.2N 0140232.0E	591	1627	F R	Wind turbine
	13588	TIDAHOLM	580533.7N 0140221.6E	591	1608	FLG W	Wind turbine
	14426	SLOTTSBOL	585053.7N 0142411.3E (*)	489	1198	FLG R	Wind turbine
	14427	SLOTTSBOL	585110.5N 0142415.9E (*)	489	1201	FLG R	Wind turbine
	14428	SLOTTSBOL	585125.2N 0142415.8E (*)	489	1188	FLG R	Wind turbine
	14429	SLOTTSBOL	585144.5N 0142420.9E (*)	489	1184	FLG R	Wind turbine
	14430	SLOTTSBOL	585117.5N 0142443.4E (*)	489	1217	FLG R	Wind turbine
	14431	SLOTTSBOL	585102.4N 0142439.7E (*)	489	1178	FLG R	Wind turbine
	14493	SVINNERSTA	585619.7N 0144912.7E	630	1191	FLG W	Wind turbine
	14494	SVINNERSTA	585601.3N 0144922.3E	630	1230	FLG W	Wind turbine
	14495	SVINNERSTA	585602.9N 0145019.9E	630	1138	FLG W	Wind turbine
	14496	SVINNERSTA	585530.6N 0144842.8E	630	1178	FLG W	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
58N 15E	14510	HÖKENSÅS	581415.7N 0140907.6E	459	1200	F R	Mast
	14962	VADSTENA	582323.6N 0144352.6E	492	812	FLG R	Wind turbine
	16951	BRAGES	581322.1N 0140837.9E	492	1181	unknown	Wind turbine
	16952	KLOCKARTORP	582153.9N 0140416.5E	361	805	unknown	Wind turbine
	16954	ATTEBY	581951.9N 0140927.1E	328	791	unknown	Wind turbine
	215	MOTALA/BONDEBACKA	583246.5N 0150232.7E	410	824	-	Mast
	217	NYKIL	581244.9N 0152550.2E	344	875	F R	Mast
	219	LINKÖPING/DOMKYRKA	582440.0N 0153700.2E	348	534	-	Church
	220	MOTALA/ERVASTEBY	583518.2N 0150545.0E	1089	1600	F R/FLG W	Mast
	866	KIMSTAD	583212.1N 0155727.1E	338	574	F R	Mast
	871	BÄCKALUND	583602.3N 0150650.3E	331	946	F R	Mast
	1155	TJÄLLMO	584541.4N 0152229.6E	338	813	F R	Mast
	1294	ÖRTOMTA	582439.5N 0155556.6E	338	542	F R	Mast
	3593	HÄCKERSTAD	581920.6N 0153522.6E	492	901	F R/FLG W	Mast
	3806	STJÄRNORP	583356.9N 0153148.4E	476	950	F R	Mast
	4522	MOTALA/BONDEBACKA	583240.1N 0150241.4E	410	831	-	Mast
	5900	ROCKLUNDA	583020.9N 0150948.0E	331	659	F R	Wind turbine
	7078	STORA SKONSBERGA VERK 3	582525.7N 0151656.0E	331	572	F R	Wind turbine
	7079	STORA SKONSBERGA	582533.3N 0151705.3E	331	572	F R	Wind turbine
	7080	STORA SKONSBERGA VERK 1	582539.9N 0151713.3E	331	572	F R	Wind turbine
	7816	VIBY	582254.1N 0151731.3E	328	574	F R	Wind turbine
	8220	NARVERED	582529.5N 0151133.1E	328	587	F R	Wind turbine
	8399	SKÄNNINGE	582521.3N 0150559.9E	328	636	FLG R	Wind turbine
	8419	HULTA	584233.8N 0150054.9E	335	1106	FLG R	Wind turbine
	8678	FORNÅSA	582752.2N 0151511.1E	328	594	F R	Wind turbine
	8679	FORNÅSA	582801.9N 0151511.5E	328	591	F R	Wind turbine
	8680	FORNÅSA	582811.0N 0151511.9E	328	600	F R	Wind turbine
	8735	SKÄNNINGE	582402.3N 0150842.5E	328	604	F R	Wind turbine
	8918	NORMLÖSA	582432.9N 0151457.8E	328	574	F R	Wind turbine
	8979	SKÄNNINGE	582235.5N 0150201.3E	328	650	F R	Wind turbine
	8981	VINNERSTAD	583045.9N 0150715.8E	328	623	F R	Wind turbine
	9006	ÖSTERSTAD	583111.0N 0151401.9E	459	734	FLG R	Wind turbine
	9007	ÖSTERSTAD	583102.2N 0151421.4E	459	735	FLG R	Wind turbine
	9053	LÅNGERYD	582731.8N 0150033.6E	328	705	F R	Wind turbine
	9248	ORLUNDA	582456.6N 0150001.4E	328	689	F R	Wind turbine
	9249	ORLUNDA	582448.2N 0150006.3E	328	686	F R	Wind turbine
	9250	ORLUNDA	582439.8N 0150011.4E	328	686	F R	Wind turbine
	9558	KLOCKRIKE	582854.5N 0152134.1E	328	558	FLG R	Wind turbine
	9564	SKÄNNINGE	582412.8N 0150803.8E	328	607	FLG R	Wind turbine
	9670	MARIEDAMM	585201.8N 0151147.7E	492	973	FLG R	Wind turbine
	9671	MARIEDAMM	585151.8N 0151205.4E	492	968	FLG R	Wind turbine
	9681	KLOCKRIKE	583058.6N 0151936.0E	459	758	FLG R	Wind turbine
	9750	FÄGELSTA	582834.5N 0150314.9E	492	853	FLG R	Wind turbine
	9751	FÄGELSTA	582817.8N 0150309.8E	492	853	FLG R	Wind turbine
	9930	SKÄNNINGE	582427.5N 0151057.1E	492	745	FLG R	Wind turbine
	9931	SKÄNNINGE	582417.5N 0151113.8E	492	748	FLG R	Wind turbine
	9932	SKÄNNINGE	582407.5N 0151130.4E	492	741	FLG R	Wind turbine
	9965	SKÄNNINGE	582523.7N 0150536.2E	328	646	FLG R	Wind turbine
	10148	BJÖRKA	583634.7N 0150608.7E	492	1102	FLG R	Wind turbine
	10149	BJÖRKA	583636.7N 0150642.8E	492	1112	FLG R	Wind turbine
	10178	SPÅNGSHOLM	582316.4N 0151259.6E	492	768	FLG R	Wind turbine
	10179	SPÅNGSHOLM	582300.4N 0151255.9E	492	768	FLG R	Wind turbine
	10180	SPÅNGSHOLM	582244.4N 0151252.1E	492	768	FLG R	Wind turbine
	10280	HOGSTAD	582029.1N 0150204.1E	459	799	FLG R	Wind turbine
	10281	HOGSTAD	582046.3N 0150212.7E	459	790	FLG R	Wind turbine
	10290	SÄNNA	584504.2N 0150139.5E	492	1204	FLG R	Wind turbine
	10291	SÄNNA	584515.6N 0150149.4E	492	1188	FLG R	Wind turbine
	10292	SÄNNA	584528.6N 0150154.6E	492	1191	FLG R	Wind turbine
10293	SÄNNA	584526.1N 0150127.8E	492	1198	FLG R	Wind turbine	
10294	SÄNNA	584514.2N 0150122.0E	492	1184	FLG R	Wind turbine	
10295	SÄNNA	584502.4N 0150111.0E	492	1207	FLG R	Wind turbine	
10312	SKÄNNINGE	582404.1N 0150807.7E	328	604	FLG R	Wind turbine	

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	10313	VINNERSTAD	583036.3N 0150717.9E	328	630	FLG R	Wind turbine
	10376	ÅSBO	581535.9N 0150707.4E	492	1063	FLG R	Wind turbine
	10377	ÅSBO	581539.5N 0150800.1E	492	1030	FLG R	Wind turbine
	10378	ÅSBO	581557.4N 0150836.4E	492	994	FLG R	Wind turbine
	10379	ÅSBO	581625.9N 0150916.1E	492	1043	FLG R	Wind turbine
	10380	ÅSBO	581622.7N 0150945.8E	492	1017	FLG R	Wind turbine
	10381	ÅSBO	581630.3N 0150852.7E	492	1027	FLG R	Wind turbine
	10382	ÅSBO	581615.6N 0150858.8E	492	1020	FLG R	Wind turbine
	10383	ÅSBO	581612.1N 0150924.3E	492	1033	FLG R	Wind turbine
	10384	ÅSBO	581601.7N 0150903.6E	492	1027	FLG R	Wind turbine
	10385	ÅSBO	581548.7N 0150718.1E	492	1040	FLG R	Wind turbine
	10386	ÅSBO	581552.4N 0150802.7E	492	974	FLG R	Wind turbine
	10409	TJÄLLMO	584610.9N 0152104.0E	394	948	F R	Mast
	10645	BJÄLBO	582218.6N 0150153.9E	328	653	FLG R	Wind turbine
	10646	BJÄLBO	582227.4N 0150205.5E	328	653	FLG R	Wind turbine
	10647	BJÄLBO	582226.6N 0150149.6E	328	653	FLG R	Wind turbine
	10757	SKEPPSÅS	582646.3N 0151305.3E	410	702	FLG R	Wind turbine
	10758	SKEPPSÅS	582633.3N 0151239.7E	410	689	FLG R	Wind turbine
	10763	VÄSTERLÖSA	582617.3N 0152013.1E	492	728	FLG R	Wind turbine
	10764	VÄSTERLÖSA	582549.8N 0152039.8E	492	719	FLG R	Wind turbine
	10765	VÄSTERLÖSA	582603.5N 0152026.4E	492	722	FLG R	Wind turbine
	11533	GULLMOSSEN	582859.7N 0151045.5E	490	832	FLG R	Wind turbine
	11535	GULLMOSSEN	582914.5N 0151025.5E	490	832	FLG R	Wind turbine
	12270	LINKÖPING	582602.6N 0153929.5E	341	469	F R	Chimney
	12949	HAMMAR	584846.0N 0150037.7E	476	1010	FLG R	Wind turbine
	12950	HAMMAR	584825.7N 0150040.5E	476	1047	FLG R	Wind turbine
	12951	HAMMAR	584808.6N 0150019.1E	476	1001	FLG R	Wind turbine
	13340	ZINKGRUVAN	584719.4N 0150759.3E	591	1230	FLG W	Wind turbine
	13341	ZINKGRUVAN	584705.2N 0150812.2E	591	1201	F R	Wind turbine
	13342	ZINKGRUVAN	584656.9N 0150820.2E	591	1181	FLG W	Wind turbine
	13343	ZINKGRUVAN	584658.2N 0150508.8E	591	1280	FLG W	Wind turbine
	13344	ZINKGRUVAN	584641.7N 0150509.2E	591	1280	F R	Wind turbine
	13345	ZINKGRUVAN	584611.1N 0150529.2E	591	1306	F R	Wind turbine
	13346	ZINKGRUVAN	584622.5N 0150543.8E	591	1292	F R	Wind turbine
	13347	ZINKGRUVAN	584600.8N 0150609.5E	591	1286	FLG W	Wind turbine
	13348	ZINKGRUVAN	584620.9N 0150617.6E	591	1280	F R	Wind turbine
	13349	ZINKGRUVAN	584649.4N 0150445.8E	591	1263	F R	Wind turbine
	13350	ZINKGRUVAN	584628.1N 0150513.9E	591	1280	F R	Wind turbine
	13351	ZINKGRUVAN	584615.2N 0150505.1E	591	1299	FLG W	Wind turbine
	13352	ZINKGRUVAN	584612.0N 0150554.2E	591	1309	F R	Wind turbine
	13353	ZINKGRUVAN	584635.2N 0150445.9E	591	1247	FLG W	Wind turbine
	13937	SÄNNA	584528.6N 0150233.9E	591	1211	F R	Wind turbine
	13938	SÄNNA	584544.3N 0150218.0E	591	1335	F R	Wind turbine
	13939	SÄNNA	584558.5N 0150216.9E	591	1263	FLG W	Wind turbine
	13940	SÄNNA	584549.7N 0150138.5E	591	1250	FLG W	Wind turbine
	14015	SÄNNA	584511.9N 0150241.8E	591	1171	FLG W	Wind turbine
	15564	TJÄLLMO	584742.8N 0152123.6E	607	1053	FLG W	Wind turbine
	15565	TJÄLLMO	584729.0N 0152114.8E	607	1073	F R	Wind turbine
	15566	TJÄLLMO	584713.5N 0152049.0E	607	1093	FLG W	Wind turbine
	15567	TJÄLLMO	584713.4N 0152123.8E	607	1073	FLG W	Wind turbine
	15568	TJÄLLMO	584647.3N 0152124.7E	607	1070	FLG W	Wind turbine
	15569	TJÄLLMO	584616.7N 0152109.5E	607	1194	FLG W	Wind turbine
	15570	TJÄLLMO	584551.0N 0152009.6E	607	1109	FLG W	Wind turbine
	15571	TJÄLLMO	584547.5N 0152129.7E	607	1076	FLG W	Wind turbine
	15572	TJÄLLMO	584528.5N 0152122.1E	607	1086	F R	Wind turbine
	15573	TJÄLLMO	584509.7N 0152128.1E	607	1096	FLG W	Wind turbine
	15574	TJÄLLMO	584616.7N 0152019.9E	607	1158	FLG W	Wind turbine
	17402	VÄSTERGÅRDEN	582654.5N 0150356.6E	492	850	unknown	Wind turbine
	17403	ÖVRA GÖTALA	582700.9N 0150426.3E	492	859	unknown	Wind turbine
	17404	VÄSTERGÅRDEN	582710.8N 0150400.3E	492	857	unknown	Wind turbine
	17406	VÄSTERGÅRDEN	582704.3N 0150330.7E	492	845	unknown	Wind turbine
	17407	GULLMOSSEN	582900.3N 0151017.2E	492	840	unknown	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more								
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles	
58N 16E	17411	LILLA KETTSTAKA	584232.5N 0150129.4E	404	1145	unknown	Mast	
	227	ÅTVIDABERG	581218.1N 0160138.4E	361	751	F R	Mast	
	228	MARVIKEN	583313.1N 0164954.7E	459	468	F R	Chimney	
	229	HEDENLUNDA	585952.1N 0163448.3E	354	527	F R	Mast	
	232	KROKEK/ORRBERGEN	584035.4N 0162803.9E	1066	1436	F R/FLG W	Mast	
	234	FALERUM/LÖPGÖLSBERG	581113.1N 0161431.7E	361	834	F R	Mast	
	1147	BETTNA	585446.7N 0163857.7E	338	477	F R	Mast	
	1943	SKEDSHULT	580420.4N 0163033.5E	344	503	F R	Mast	
	3009	NORSHOLM E	583103.7N 0160618.7E	541	788	F R/FLG W	Mast	
	4494	MARVIKEN	583310.8N 0164957.7E	328	336	F R	Chimney	
	4503	KROKEK/ORRBERGEN	584037.7N 0162748.5E	371	734	F R	Mast	
	9288	VALDEMARSVIK	581250.9N 0163715.7E	397	633	F R	Mast	
	15577	NORRÖPING	584133.4N 0161913.5E	328	797	F R	Mast	
	58N 17E	241	STUDSVIK	584621.0N 0172256.5E	404	521	F R	Mast
243		TORÖ	584914.3N 0175039.1E	351	462	F R	Mast	
3879		BOGSTA/TYSTBERGA	585053.6N 0171036.6E	374	551	F R	Mast	
14037		NYNÄSHAMN	585604.5N 0175844.4E	408	420	F R	Crane	
59N 11E	14038	NYNÄSHAMN	585610.6N 0175847.7E	408	420	F R	Crane	
	246	TÖCKSFORS	593516.8N 0114912.8E	400	998	F R	Mast	
	248	SVINESUND	590513.7N 0111529.2E	341	644	F R	Mast	
	17387	SÖDRA FJÖLATJÄRNEN	592948.1N 0114443.4E	656	1559	unknown	Wind turbine	
	17389	NORRA FJÖLATJÄRNEN	593029.2N 0114424.0E	656	1553	unknown	Wind turbine	
	17390	NORRA FJÖLATJÄRNEN	593039.5N 0114406.4E	656	1610	unknown	Wind turbine	
	17391	ARMBÅGMYREN	593059.4N 0114354.2E	656	1585	unknown	Wind turbine	
	17392	FJÖLATJÄRNSDALEN	593000.2N 0114433.4E	656	1579	unknown	Wind turbine	
	59N 12E	249	SUNNE/BLÄBÄRSKULLEN	595011.4N 0125200.0E	860	2219	F R/FLG W	Mast
		251	ARVIKA/ÖRSHULTABERGET 2	593723.7N 0124016.4E	390	1158	F R	Mast
258		KOPPOM	594239.0N 0120656.3E	354	1229	F R	Mast	
259		ÅRJÄNG	592413.7N 0120636.4E	381	1160	F R	Mast	
785		SILLERUD/MYSKHÖJDEN	592153.8N 0123924.6E	374	1060	F R	Mast	
958		SVANSKOG 2	590834.0N 0123429.0E	374	1131	F R	Mast	
8621		FENGERSFORS	590006.1N 0123318.1E	328	796	FLG R	Wind turbine	
10134		FENGERSFORS	590001.6N 0123303.3E	492	963	FLG R	Wind turbine	
10135		FENGERSFORS	590015.9N 0123302.3E	492	979	FLG R	Wind turbine	
11928		ÅRJÄNG	592524.5N 0120232.5E	591	1402	FLG W	Wind turbine	
11929		ÅRJÄNG	592548.1N 0120128.9E	591	1383	FLG W	Wind turbine	
11930		ÅRJÄNG	592549.1N 0120158.0E	591	1427	FLG W	Wind turbine	
11931		ÅRJÄNG	592534.6N 0120147.6E	591	1394	FLG W	Wind turbine	
11932		ÅRJÄNG	592536.1N 0120215.1E	591	1404	FLG W	Wind turbine	
11933		ÅRJÄNG	592509.9N 0120220.7E	591	1417	FLG W	Wind turbine	
11934		ÅRJÄNG	592515.7N 0120154.8E	591	1444	FLG W	Wind turbine	
11935		ÅRJÄNG	592520.7N 0120122.0E	591	1381	FLG W	Wind turbine	
11936		ÅRJÄNG	592532.1N 0120101.6E	591	1342	FLG W	Wind turbine	
11967		ÅRJÄNG	592207.5N 0120332.5E	591	1383	FLG W	Wind turbine	
11968		ÅRJÄNG	592200.1N 0120300.6E	591	1407	FLG W	Wind turbine	
11970		ÅRJÄNG	592140.7N 0120231.3E	591	1394	FLG W	Wind turbine	
11971		ÅRJÄNG	592140.3N 0120301.1E	591	1411	FLG W	Wind turbine	
11972		ÅRJÄNG	592155.3N 0120221.6E	591	1332	FLG W	Wind turbine	
11973		ÅRJÄNG	592125.5N 0120248.1E	591	1394	FLG W	Wind turbine	
11974		ÅRJÄNG	592126.0N 0120320.5E	591	1427	FLG W	Wind turbine	
11975		ÅRJÄNG	592141.5N 0120332.0E	591	1411	FLG W	Wind turbine	
11976		ÅRJÄNG	592152.8N 0120348.3E	591	1401	FLG W	Wind turbine	
11977	ÅRJÄNG	592134.5N 0120402.4E	591	1362	FLG W	Wind turbine		
11978	ÅRJÄNG	592110.3N 0120325.2E	591	1362	FLG W	Wind turbine		
11979	ÅRJÄNG	592107.8N 0120254.8E	591	1335	FLG W	Wind turbine		
11980	ÅRJÄNG	592054.0N 0120323.5E	591	1362	FLG W	Wind turbine		
14002	SUNNE	594641.5N 0125738.2E	656	1686	FLG W	Wind turbine		
14003	SUNNE	594639.7N 0125801.2E	656	1680	F R	Wind turbine		
14004	SUNNE	594624.3N 0125719.9E	656	1601	F R	Wind turbine		
14005	SUNNE	594609.7N 0125742.2E	656	1572	FLG W	Wind turbine		
14010	SUNNE	594740.0N 0125928.5E	656	1775	FLG W	Wind turbine		
14011	SUNNE	594713.8N 0125939.5E	656	1801	F R	Wind turbine		

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	14968	SEGMON	591532.2N 0125406.4E	656	1155	FLG W	Wind turbine
	14969	SEGMON	591537.9N 0125345.7E	656	1138	F R	Wind turbine
	14970	SEGMON	591551.1N 0125419.2E	656	1135	F R	Wind turbine
	14971	SEGMON	591603.4N 0125419.9E	656	1119	FLG W	Wind turbine
	14972	SEGMON	591540.6N 0125302.7E	656	1106	F R	Wind turbine
	14973	SEGMON	591546.0N 0125242.9E	656	1109	F R	Wind turbine
	14974	SEGMON	591531.7N 0125214.8E	656	1129	FLG W	Wind turbine
	14975	SEGMON	591547.9N 0125117.8E	656	1106	FLG W	Wind turbine
	15216	ÄRJÄNG	592457.5N 0120154.2E	755	1552	FLG W	Wind turbine
	15217	ÄRJÄNG	592453.0N 0120235.6E	755	1535	F R	Wind turbine
	15218	ÄRJÄNG	592442.8N 0120342.8E	755	1493	FLG W	Wind turbine
	15219	ÄRJÄNG	592436.1N 0120216.7E	755	1526	F R	Wind turbine
	15220	ÄRJÄNG	592430.7N 0120259.4E	755	1555	F R	Wind turbine
	15221	ÄRJÄNG	592425.7N 0120337.8E	755	1532	F R	Wind turbine
	15222	ÄRJÄNG	592411.9N 0120251.5E	755	1493	FLG W	Wind turbine
	15223	ÄRJÄNG	592449.1N 0120307.8E	755	1578	F R	Wind turbine
	15516	SUNNE	594721.9N 0125639.0E	656	1677	FLG W	Wind turbine
	15517	SUNNE	594708.9N 0125702.4E	656	1624	FLG W	Wind turbine
	15518	SUNNE	594700.3N 0125738.8E	656	1608	FLG W	Wind turbine
59N 13E	260	KARLSTAD/SÖRMON/1	592331.4N 0132259.5E	604	938	F R/FLG W	Mast
	966	KARLSTAD	592311.6N 0133419.4E	430	593	F R	Chimney
	4012	GRUMS	592022.4N 0130705.7E	341	501	F R	Chimney
	4508	KARLSTAD/SÖRMON/2	592330.9N 0132256.4E	328	627	F R	Mast
	8277	ÖLSERUD	590059.2N 0130930.5E	328	521	F R	Wind turbine
	8288	AMÖN	592119.4N 0134550.4E (*)	328	558	F R	Wind turbine
	10592	BLOMBACKA	593806.0N 0135327.9E	482	1221	FLG R	Wind turbine
	10593	BLOMBACKA	593757.8N 0135336.6E	482	1207	FLG R	Wind turbine
	11516	SEGERSTADS SKÄRGÅRD	591601.2N 0132132.3E	469	624	FLG R	Wind turbine
	11517	SEGERSTADS SKÄRGÅRD	591552.0N 0132206.1E	469	623	FLG R	Wind turbine
	11518	SEGERSTADS SKÄRGÅRD	591555.7N 0132256.5E (*)	469	623	FLG R	Wind turbine
	11519	SEGERSTADS SKÄRGÅRD	591526.7N 0132053.8E (*)	469	623	FLG R	Wind turbine
	11520	SEGERSTADS SKÄRGÅRD	591529.3N 0132304.0E (*)	469	624	FLG R	Wind turbine
	11521	SEGERSTADS SKÄRGÅRD	591551.5N 0132328.7E (*)	469	627	FLG R	Wind turbine
	11522	SEGERSTADS SKÄRGÅRD	591556.1N 0132414.3E (*)	469	623	FLG R	Wind turbine
	11523	SEGERSTADS SKÄRGÅRD	591550.8N 0132452.9E (*)	469	626	FLG R	Wind turbine
	11524	SEGERSTADS SKÄRGÅRD	591533.3N 0132341.3E (*)	469	625	FLG R	Wind turbine
	11525	SEGERSTADS SKÄRGÅRD	591537.1N 0132421.7E (*)	469	625	FLG R	Wind turbine
	14006	SUNNE	594732.0N 0130003.8E	656	1860	F R	Wind turbine
	14007	SUNNE	594714.8N 0130011.3E	656	1890	FLG W	Wind turbine
	14008	SUNNE	594701.5N 0130053.5E	656	1864	FLG W	Wind turbine
	14009	SUNNE	594650.9N 0130117.5E	656	1824	F R	Wind turbine
	14012	SUNNE	594655.7N 0130011.1E	656	1811	F R	Wind turbine
	14013	SUNNE	594644.6N 0130036.2E	656	1742	F R	Wind turbine
	14014	SUNNE	594630.0N 0130111.6E	656	1634	FLG W	Wind turbine
	14039	KARLSTAD	592217.3N 0132957.9E	338	490	F R	Building
	15519	SUNNE	594155.4N 0130257.7E	656	1542	FLG W	Wind turbine
	15520	SUNNE	594142.2N 0130309.6E	656	1509	FLG W	Wind turbine
	15521	SUNNE	594146.3N 0130356.7E	656	1512	FLG W	Wind turbine
	15522	SUNNE	594147.8N 0130439.1E	656	1526	FLG W	Wind turbine
	15523	SUNNE	594124.1N 0130516.0E	656	1496	FLG W	Wind turbine
	15524	SUNNE	594112.1N 0130514.6E	656	1483	FLG W	Wind turbine
	15525	SUNNE	594058.1N 0130515.5E	656	1483	FLG W	Wind turbine
59N 14E	15911	TJÄRGRAVMOSSEN	594127.5N 0130517.5E	404	1248	unknown	Mast
	268	ÖLME	592130.7N 0140007.6E	577	715	F R	Mast
	270	DEGERFORS	591226.2N 0142259.6E	525	1052	F R/FLG W	Mast
	271	FILIPSTAD/KLOCKARHÖJDEN	594057.0N 0140726.3E	1083	2013	F R/FLG W	Mast
	4507	KOPPARBERG	595141.0N 0145929.1E	387	1273	F R	Mast
	8289	BJÖRNEBORG	591340.5N 0140904.5E (*)	328	673	F R	Wind turbine
	9468	LÄRNÄS	592514.2N 0140414.6E (*)	328	840	F R	Mast
	9742	KRISTINEHAMN	591701.9N 0141313.2E (*)	328	869	F R	Mast
	10346	LÄMÄS	590203.1N 0142141.5E (*)	492	906	FLG R	Wind turbine
	10347	LÄMÄS	590143.2N 0142138.5E (*)	492	902	FLG R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	10704	VRETSTORP	590028.0N 0145538.5E (*)	492	965	FLG R	Wind turbine
	10705	VRETSTORP	590041.1N 0145536.6E (*)	492	948	FLG R	Wind turbine
	10706	VRETSTORP	590048.8N 0145521.1E (*)	492	945	FLG R	Wind turbine
	12697	GRANNÄS	590347.7N 0142123.6E (*)	492	925	FLG R	Wind turbine
	12698	GRANNÄS	590332.5N 0142117.6E (*)	492	938	FLG R	Wind turbine
	12769	KRISTINAHAMN VERK 1	591752.8N 0141506.3E (*)	591	1138	FLG W	Wind turbine
	12770	KRISTINAHAMN VERK 2	591733.0N 0141327.6E (*)	591	1175	FLG W	Wind turbine
	12771	KRISTINAHAMN VERK 3	591755.1N 0141322.7E (*)	591	1201	FLG W	Wind turbine
	12772	KRISTINAHAMN VERK 4	591734.5N 0141245.0E (*)	591	1063	FLG W	Wind turbine
	12773	KRISTINAHAMN VERK 5	591735.4N 0141418.4E (*)	591	1158	FLG W	Wind turbine
	12774	KRISTINAHAMN VERK 6	591708.9N 0141342.4E (*)	591	1145	FLG W	Wind turbine
	12775	KRISTINAHAMN VERK 7	591716.5N 0141500.7E (*)	591	1122	FLG W	Wind turbine
	12776	KRISTINAHAMN VERK 8	591914.9N 0141432.7E (*)	591	1188	FLG W	Wind turbine
	12777	KRISTINAHAMN VERK 9	591857.4N 0141451.7E (*)	591	1188	FLG W	Wind turbine
	12778	KRISTINAHAMN VERK 10	591641.1N 0141329.2E (*)	591	1096	FLG W	Wind turbine
	12779	KRISTINAHAMN VERK 11	591628.3N 0141405.7E (*)	591	1099	FLG W	Wind turbine
	12780	KRISTINAHAMN VERK 12	591649.8N 0141431.7E (*)	591	1138	FLG W	Wind turbine
	12781	KRISTINAHAMN VERK 13	591640.1N 0141505.0E (*)	591	1076	FLG W	Wind turbine
	12782	KRISTINAHAMN VERK 14	591648.1N 0141254.1E (*)	591	1099	FLG W	Wind turbine
	12783	KRISTINAHAMN VERK 15	591755.4N 0141237.6E (*)	591	1099	FLG W	Wind turbine
	12784	KRISTINAHAMN VERK 16	591712.1N 0141259.5E (*)	591	1106	FLG W	Wind turbine
	12803	VASSGÅRDA	592146.4N 0141215.3E (*)	591	1191	FLG W	Wind turbine
	12804	VASSGÅRDA	592120.0N 0141127.4E (*)	591	1165	FLG W	Wind turbine
	12805	VASSGÅRDA	592127.1N 0141202.2E (*)	591	1096	FLG W	Wind turbine
	12806	VASSGÅRDA	592044.7N 0140922.4E (*)	591	1043	FLG W	Wind turbine
	12807	VASSGÅRDA	592045.7N 0141000.4E (*)	591	1063	FLG W	Wind turbine
	12808	VASSGÅRDA	592108.8N 0141056.0E (*)	591	1132	FLG W	Wind turbine
	12809	VASSGÅRDA	592040.5N 0141036.3E (*)	591	1079	FLG W	Wind turbine
	12810	VASSGÅRDA	592057.7N 0141027.6E (*)	591	1073	FLG W	Wind turbine
	13601	MULLHYTTAN	591301.4N 0144059.8E (*)	607	1309	F R	Wind turbine
	13602	MULLHYTTAN	591251.3N 0143923.2E (*)	607	1293	F R	Wind turbine
	13603	MULLHYTTAN	591247.1N 0144131.9E (*)	607	1325	F R	Wind turbine
	13604	MULLHYTTAN	591234.8N 0143921.1E (*)	607	1342	FLG W	Wind turbine
	13605	MULLHYTTAN	591234.0N 0143949.0E (*)	607	1296	F R	Wind turbine
	13606	MULLHYTTAN	591239.6N 0144104.8E (*)	607	1332	F R	Wind turbine
	13607	MULLHYTTAN	591240.1N 0144206.1E (*)	607	1355	F R	Wind turbine
	13608	MULLHYTTAN	591225.1N 0144300.1E (*)	607	1329	FLG W	Wind turbine
	13609	MULLHYTTAN	591222.2N 0144123.7E (*)	607	1407	FLG W	Wind turbine
	13610	MULLHYTTAN	591244.0N 0144027.4E (*)	607	1266	F R	Wind turbine
	13611	MULLHYTTAN	591254.3N 0143956.0E (*)	607	1287	F R	Wind turbine
	13612	MULLHYTTAN	591226.9N 0144030.0E (*)	607	1345	F R	Wind turbine
	13613	MULLHYTTAN	591303.5N 0144152.8E (*)	607	1302	F R	Wind turbine
	13614	MULLHYTTAN	591252.8N 0144244.6E (*)	607	1335	FLG W	Wind turbine
	13615	MULLHYTTAN	591238.5N 0144228.5E (*)	607	1325	F R	Wind turbine
	13616	MULLHYTTAN	591311.5N 0144007.7E (*)	607	1309	FLG W	Wind turbine
	14046	BÄCKHAMMAR	590921.6N 0141325.6E (*)	656	1125	FLG W	Wind turbine
	14047	BÄCKHAMMAR	590922.5N 0141356.9E (*)	656	1138	F R	Wind turbine
	14048	BÄCKHAMMAR	590923.9N 0141428.8E (*)	656	1119	FLG W	Wind turbine
	14049	BÄCKHAMMAR	590905.1N 0141325.2E (*)	656	1132	F R	Wind turbine
	14050	BÄCKHAMMAR	590905.9N 0141356.9E (*)	656	1171	F R	Wind turbine
	14051	BÄCKHAMMAR	590906.6N 0141430.8E (*)	656	1122	F R	Wind turbine
	14052	BÄCKHAMMAR	590846.3N 0141325.2E (*)	656	1115	F R	Wind turbine
	14053	BÄCKHAMMAR	590849.8N 0141353.5E (*)	656	1152	F R	Wind turbine
	14054	BÄCKHAMMAR	590850.5N 0141431.2E (*)	656	1125	F R	Wind turbine
	14055	BÄCKHAMMAR	590852.1N 0141500.1E (*)	656	1102	FLG W	Wind turbine
	14056	BÄCKHAMMAR	590833.4N 0141352.4E (*)	656	1122	F R	Wind turbine
	14057	BÄCKHAMMAR	590834.7N 0141430.8E (*)	656	1099	F R	Wind turbine
	14058	BÄCKHAMMAR	590825.9N 0141456.5E (*)	656	1073	F R	Wind turbine
	14059	BÄCKHAMMAR	590838.1N 0141517.2E (*)	656	1086	F R	Wind turbine
	14060	BÄCKHAMMAR	590842.1N 0141554.9E (*)	656	1066	FLG W	Wind turbine
	14061	BÄCKHAMMAR	590826.7N 0141600.6E (*)	656	1040	FLG W	Wind turbine
	14062	BÄCKHAMMAR	590814.2N 0141312.1E (*)	656	1086	FLG W	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
59N 15E	14063	BÄCKHAMMAR	590815.0N 0141340.6E (*)	656	1122	F R	Wind turbine
	14064	BÄCKHAMMAR	590757.1N 0141311.5E (*)	656	1047	F R	Wind turbine
	14065	BÄCKHAMMAR	590800.4N 0141343.9E (*)	656	1083	F R	Wind turbine
	14066	BÄCKHAMMAR	590741.2N 0141314.3E (*)	656	1040	FLG W	Wind turbine
	14067	BÄCKHAMMAR	590744.2N 0141348.0E (*)	656	1073	FLG W	Wind turbine
	14068	BÄCKHAMMAR	591035.4N 0141634.8E (*)	656	1138	FLG W	Wind turbine
	14069	BÄCKHAMMAR	591053.2N 0141626.9E (*)	656	1168	F R	Wind turbine
	14070	BÄCKHAMMAR	591111.1N 0141618.0E (*)	656	1161	FLG W	Wind turbine
	14071	BÄCKHAMMAR	591039.2N 0141713.4E (*)	656	1112	F R	Wind turbine
	14072	BÄCKHAMMAR	591058.0N 0141709.8E (*)	656	1132	F R	Wind turbine
	14073	BÄCKHAMMAR	591115.2N 0141657.6E (*)	656	1152	F R	Wind turbine
	14074	BÄCKHAMMAR	591044.4N 0141753.7E (*)	656	1152	FLG W	Wind turbine
	14075	BÄCKHAMMAR	591102.7N 0141754.5E (*)	656	1175	F R	Wind turbine
	14076	BÄCKHAMMAR	591120.6N 0141748.1E (*)	656	1171	FLG W	Wind turbine
	272	ÖREBRO/LOCKHYTTAN	592545.7N 0150255.8E	1060	1873	F R/FLG W	Mast
	276	RIDDARHYTTAN	595058.1N 0153414.4E	427	1319	F R/FLG W	Mast
	1229	GUNNILBO	594745.5N 0154952.2E	344	708	F R	Mast
	4506	ÖREBRO/LOCKHYTTAN	592546.0N 0150255.7E	453	1268	-	Mast
	5350	GÖTARSVIK	591907.5N 0153437.3E (*)	328	430	F R	Wind turbine
	6681	LANNÄS	590916.2N 0153331.3E (*)	328	410	F R	Wind turbine
	7904	ODENSBACKEN	591022.8N 0152707.0E (*)	328	410	F R	Wind turbine
	8290	LANNÄS	590915.1N 0153358.9E (*)	328	410	F R	Wind turbine
	9975	ST MELLÖSA	591224.8N 0152803.7E (*)	328	413	FLG R	Wind turbine
	9976	LÄNNÄS	590925.7N 0153400.1E (*)	328	404	FLG R	Wind turbine
	10524	LÄPPE	590808.4N 0155134.4E (*)	492	758	FLG R	Wind turbine
	10963	DAGSJÖN	591111.8N 0155731.6E (*)	335	551	FLG R	Wind turbine
	11211	MOSÄS	591112.9N 0150738.9E (*)	492	620	FLG R	Wind turbine
	11212	MOSÄS	591055.5N 0150734.3E (*)	492	610	FLG R	Wind turbine
	11538	VÄSTTORP	590754.7N 0155148.1E (*)	492	751	FLG R	Wind turbine
	12582	PÄLSBODA	590556.2N 0152146.7E (*)	479	827	FLG R	Wind turbine
	12583	PÄLSBODA	590542.4N 0152203.1E (*)	479	846	FLG R	Wind turbine
	12584	PÄLSBODA	590529.3N 0152220.8E (*)	479	863	FLG R	Wind turbine
	12601	KUMLA	591035.7N 0150718.4E (*)	492	614	FLG R	Wind turbine
12602	KUMLA	591022.0N 0150709.0E (*)	492	620	FLG R	Wind turbine	
12603	KUMLA	591008.3N 0150659.6E (*)	492	620	FLG R	Wind turbine	
17318	LINDESBERG	593617.5N 0150635.3E	722	1376	FLG W	Wind turbine	
17319	LINDESBERG	593559.2N 0150643.0E	722	1407	F R	Wind turbine	
17320	LINDESBERG	593552.7N 0150713.8E	722	1416	FLG W	Wind turbine	
59N 16E	281	VÄSTERÄS/LILLHÄRAD	593837.1N 0162402.3E	1070	1196	F R/FLG W	Mast
	286	SALA 2	595442.7N 0163859.4E	427	592	F R	Mast
	287	VÄSTERÄS	593518.6N 0163049.2E	495	502	F R	Chimney
	1149	DUNKER	591028.0N 0164747.4E	338	569	F R	Mast
	1236	SURAHAMMAR	594118.4N 0161540.0E	348	588	F R	Mast
	1525	NORSA	592954.3N 0160258.6E	338	386	F R	Mast
	1603	KÖPING	593004.6N 0160157.3E	374	395	F R	Silo
	9430	ÄSKÖPING	590829.5N 0160535.8E (*)	328	495	FLG R	Wind turbine
	11388	VÄSTERÄS	593512.4N 0163031.8E	361	384	F R	Chimney
	12125	ESKILSTUNA	591959.7N 0163456.2E	400	638	FLG W	Mast
	13583	VÄSTERÄS	593522.8N 0163023.8E	366	405	F R	Tower, Chimney
	15832	SUNDBY	592506.0N 0163808.3E	492	502	FLG R	Wind turbine
	15833	SUNDBY	592458.1N 0163820.2E	492	502	FLG R	Wind turbine
	15834	SUNDBY	592450.3N 0163832.2E	492	499	FLG R	Wind turbine
	15835	SUNDBY	592444.6N 0163847.9E	492	499	FLG R	Wind turbine
	15836	SUNDBY	592430.5N 0163832.0E	492	502	FLG R	Wind turbine
	15837	SUNDBY	592416.4N 0163819.2E	492	502	FLG R	Wind turbine
	15838	SUNDBY	592404.1N 0163802.4E	492	502	FLG R	Wind turbine
	15839	SUNDBY	592413.7N 0163745.2E	492	502	FLG R	Wind turbine
	15840	SUNDBY	592427.5N 0163738.7E	492	522	FLG R	Wind turbine
	16967	JOHANNISBERG	593514.3N 0163044.6E	394	405	unknown	Chimney
59N 17E	293	UPPSALA DOMKYRKA	595128.9N 0173757.7E	377	429	-	Church
	300	UPPSALA/BRÄNNUGNEN	595107.9N 0174032.6E	344	380	F R	Chimney
	301	BÄLSTA/EKOLSUND	593724.1N 0172505.4E	404	570	F R	Mast

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
59N 18E	310	OKNÖ	593134.4N 0170737.3E	354	400	F R	Pylon, power line
	319	STOCKHOLM/FITTA	591527.2N 0175152.0E	328	347	F R	Chimney
	320	STOCKHOLM/HAGBY	592928.9N 0175853.7E	397	450	F R	Mast
	321	STOCKHOLM/HÄSSELBYSTRAND1	592145.4N 0174931.6E	410	477	F R/FLG W	Chimney
	648	SÖDERTÄLJE/RAGNHILDSBORG	591324.5N 0173714.3E	433	678	F R	Mast
	786	SÖDERTÄLJE/KARLEBY	591040.3N 0173957.3E	459	501	F R	Chimney
	899	UPPSALA/BRUNNBY	595122.7N 0174636.1E	748	869	F R/FLG W	Mast
	908	GRANTORP/KOLBOTTEN	592539.0N 0173519.4E	394	414	F R	Pylon, Power line.
	909	GRANTORP/KOLBOTTEN	592558.1N 0173546.6E	374	381	F R	Pylon, Power line.
	911	GRANTORP/KOLBOTTEN	592824.3N 0173402.6E	338	346	F R	Pylon, Power line.
	912	GRANTORP/KOLBOTTEN	593146.4N 0173147.7E	354	377	F R	Pylon, Power line.
	913	GRANTORP/KOLBOTTEN	593200.6N 0173126.1E	344	362	F R	Pylon
	1148	JÄRNA	590605.2N 0173600.8E	338	505	F R	Mast
	1194	SPARRSÅTRA	593937.7N 0170150.2E	344	457	F R	Mast
	1503	GNESTA	590218.0N 0171810.6E	338	450	F R	Mast
	2887	KOLBOTTEN	591307.2N 0174213.4E	338	489	F R	Mast
	3210	HÖLÖ	590205.8N 0173356.2E	344	478	F R	Mast
	4417	STOCKHOLM/HÄSSELBYSTRAND1	592146.8N 0174929.5E	446	482	F R/FLG W	Chimney
	5510	KISTA	592405.4N 0175648.9E	535	566	F R/FLG W	Building
	10679	KISTA	592425.5N 0175727.5E	400	505	F R	Building
	14019	SÖDERTÄLJE	591022.4N 0173745.4E	344	530	F R	Chimney
	14490	UPPSALA	595109.6N 0174056.0E	328	397	F R	Chimney
	16588	IGELSTAVIKEN	591029.6N 0174006.1E	377	425	unknown	Chimney
	16625	KISTA	592417.9N 0175631.5E	390	435	unknown	Building
	16690	UPPSALA DOMKYRKA	595129.6N 0173757.8E	351	403	unknown	Church
	17337	VÄRDINGE	590133.3N 0172452.1E	351	584	F R	Mast
	325	BROTBY	593524.0N 0182156.3E	407	643	F R	Mast
	329	ORNÖ	590117.0N 0182252.9E	358	447	F R	Mast
	332	VÄDDÖ	595805.7N 0185023.8E	505	623	F R/FLG W	Mast
	337	ÅGESTA	591222.4N 0180506.2E	397	606	F R	Mast
	338	STOCKHOLM/DJURGÅRDEN	591923.7N 0180549.1E	328	340	F R/FLG W	Tower
	339	STOCKHOLM/HÖGDALLEN	591523.5N 0180341.3E	459	613	F R	Chimney
	340	STOCKHOLM/KAKNÄS	592006.2N 0180736.5E	518	582	F R/FLG W	Tower
	341	STOCKHOLM/KLARA K:A	591952.4N 0180340.0E	348	375	-	Church
	342	STOCKHOLM/NACKA	591751.4N 0181022.7E	984	1174	F R/FLG W	Mast
	343	STOCKHOLM/STADSHUSET	591938.2N 0180321.6E	344	348	-	Building
	345	STOCKHOLM/VÄRTAN2(B)	592112.3N 0180611.7E	463	528	F R	Chimney
	924	STOCKHOLM/HAMMARBY	591800.6N 0180553.6E	348	442	F R	Tower
	972	STOCKHOLM/HAMMARBYGÅRD	591820.6N 0180541.8E	344	385	F R	Chimney
	1146	BLADÅKER	595937.5N 0181803.3E	354	454	F R	Mast
	1399	VAXTUNA	593628.8N 0183623.1E	344	448	F R	Mast
	1400	SONÖ	595352.1N 0183613.8E	331	414	F R	Mast
	1498	NYSÄTTRA	594916.2N 0185310.3E	341	406	F R	Mast
	1530	STOCKHOLM/LIDINGÖ	592038.4N 0180933.4E	328	335	F R	Chimney
	1569	STOCKHOLM/SKATTEHUSET	591843.5N 0180424.8E	361	439	-	Building
	2026	ÅKERSBERGA/LADVIK	592519.1N 0181402.0E	344	468	F R	Mast
	2371	GOTTRÖRA	594456.6N 0180638.9E	341	454	F R	Mast
	3331	RÖ/LOVISEDAL	594007.5N 0182753.8E	417	637	F R	Mast
	3397	KÄPPALA	592119.7N 0181334.7E	492	555	F R	Chimney
	4414	STOCKHOLM/VÄRTAN2	592111.8N 0180603.4E	341	402	-	Chimney
	4415	STOCKHOLM	591746.0N 0181034.9E	984	1172	F R/FLG W	Mast
	7353	NORRA LJUSTERÖ	593046.2N 0183617.6E	328	453	F R	Wind turbine
	10896	SVANBERGA	595006.9N 0184206.2E	492	525	FLG R	Wind turbine
	10897	SVANBERGA	594947.9N 0184042.7E	492	541	FLG R	Wind turbine
	11277	GRÖNA LUND	591922.7N 0180546.6E	397	410	F R	Tower
	12717	NORRA LJUSTERÖ	593054.9N 0183609.3E	492	571	FLG R	Wind turbine
	13368	STOCKHOLM	592045.9N 0180202.8E	420	474	F R	Building
	13904	STOCKHOLM/HAMMARBY SJÖSTAD	591804.2N 0180459.8E	367	410	F R	Building
	15883	NACKA	591823.8N 0180713.8E	377	435	F R	Building
	16606	HAMMARBYLEDEN	591812.3N 0180508.5E	338	356	unknown	Chimney
	16632	TORSPLAN	592044.6N 0180159.1E	387	447	F R	Building
	17029	STOCKHOLM/FRIHAMN	592035.7N 0180718.9E	338	346	F R	Granary

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
59N 19E	346	TJÄRVEN	594407.6N 0192010.0E	354	378	F R	Mast
60N 12E	350	SYSSLEBÄCK	604243.4N 0125416.6E	400	1632	F R	Mast
60N 13E	353	LOFFSTRAND/ENNARBOL	601831.9N 0132257.2E	384	1545	F R	Mast
	359	MALUNG	604000.9N 0133926.0E	344	1995	F R	Mast
	8720	BYRÅSEN	604004.8N 0133900.4E	387	1982	FLG R	Wind turbine
	8721	BYRÅSEN	603958.6N 0133913.9E	387	1999	FLG R	Wind turbine
	10036	KYRKBERGET	605241.3N 0133645.5E	463	2539	FLG R	Wind turbine
	10037	KYRKBERGET	605254.1N 0133647.5E	463	2546	F R	Wind turbine
	10038	KYRKBERGET	605305.1N 0133652.0E	463	2523	FLG R	Wind turbine
	10039	KYRKBERGET	605317.7N 0133650.2E	463	2474	F R	Wind turbine
	10040	KYRKBERGET	605328.7N 0133655.1E	463	2497	FLG R	Wind turbine
	10041	KYRKBERGET	605351.7N 0133709.2E	463	2516	FLG R	Wind turbine
	10042	KYRKBERGET	605340.8N 0133708.8E	463	2562	F R	Wind turbine
	10043	KYRKBERGET	605341.4N 0133743.1E	463	2503	FLG R	Wind turbine
	10044	KYRKBERGET	605314.2N 0133721.1E	463	2585	FLG R	Wind turbine
	10045	KYRKBERGET	605322.4N 0133750.3E	463	2562	FLG R	Wind turbine
	10494	ST. SVEDBERGET	602123.4N 0135643.5E	492	2149	FLG R	Wind turbine
	10495	ST. SVEDBERGET	602104.3N 0135634.3E	492	2178	FLG R	Wind turbine
	10496	ST. SVEDBERGET	602050.1N 0135651.7E	492	2297	FLG R	Wind turbine
	10497	ST. SVEDBERGET	602034.9N 0135655.4E	492	2336	FLG R	Wind turbine
	10498	ST. SVEDBERGET	602016.2N 0135649.8E	492	2247	FLG R	Wind turbine
	10499	ST. SVEDBERGET	602005.0N 0135620.1E	492	2172	FLG R	Wind turbine
	10500	ST. SVEDBERGET	602014.0N 0135536.9E	492	2175	FLG R	Wind turbine
	10501	ST. SVEDBERGET	602033.4N 0135601.3E	492	2208	FLG R	Wind turbine
	10502	ST. SVEDBERGET	602050.5N 0135548.8E	492	2192	FLG R	Wind turbine
	11601	ÄPPELBO / HÄBERGET	602408.2N 0135347.2E	574	2067	FLG W	Wind turbine
	11602	ÄPPELBO / HÄBERGET	602350.8N 0135422.1E	574	2300	FLG W	Wind turbine
	11603	ÄPPELBO / HÄBERGET	602334.9N 0135407.9E	574	2316	FLG W	Wind turbine
	11604	ÄPPELBO / HÄBERGET	602320.7N 0135338.7E	574	2169	FLG W	Wind turbine
	11605	ÄPPELBO / HÄBERGET	602311.3N 0135515.6E	574	2139	FLG W	Wind turbine
	11606	ÄPPELBO / HÄBERGET	602259.6N 0135531.5E	574	2228	FLG W	Wind turbine
	11607	ÄPPELBO / HÄBERGET	602245.0N 0135547.4E	574	2169	FLG W	Wind turbine
	13902	MALUNG/BRÄNDBERGET	603611.5N 0133016.8E	440	2211	F R	Mast
	15583	YTTERMALUNG	603144.8N 0133433.0E	394	2090	F R	Mast
	15784	MALUNG	602741.0N 0132842.6E	651	2352	F R	Wind turbine
	15785	MALUNG	602739.9N 0132915.4E	649	2335	FLG W	Wind turbine
	15786	MALUNG	602739.4N 0132709.9E	655	2192	FLG W	Wind turbine
	15787	MALUNG	602724.8N 0132734.4E	655	2379	F R	Wind turbine
	15788	MALUNG	602716.1N 0132818.1E	649	2354	F R	Wind turbine
	15789	MALUNG	602714.4N 0132906.5E	650	2351	F R	Wind turbine
	15790	MALUNG	602702.2N 0132808.5E	648	2341	FLG W	Wind turbine
	15791	MALUNG	602644.2N 0132916.7E	650	2243	FLG W	Wind turbine
60N 14E	362	VANSBRO/HUMMELBERGET	602612.8N 0140628.6E	423	2030	F R	Mast
	7265	ÄPPELBO	603011.3N 0140115.0E	374	1909	F R	Wind turbine
	8284	ÖRTJÄRN	600610.2N 0145340.6E	410	1922	F R	Wind turbine
	8285	ÖRTJÄRN	600606.2N 0145402.1E	410	1881	F R	Wind turbine
	8286	ÖRTJÄRN	600602.4N 0145423.0E	410	1900	F R	Wind turbine
	8287	ÖRTJÄRN	600546.3N 0145458.2E	410	1913	F R	Wind turbine
	8391	ÖRTJÄRN	600555.8N 0145442.8E	410	1906	F R	Wind turbine
	8694	RÖBERGSFJÄLLET	601709.5N 0141322.0E	410	2123	F R	Wind turbine
	8695	FLATBERGET	601659.9N 0141335.1E	410	2083	F R	Wind turbine
	8696	RÖBERGSFJÄLLET	601652.9N 0141310.9E	410	2087	F R	Wind turbine
	8697	FLATBERGET	601647.9N 0141348.8E	410	2106	F R	Wind turbine
	8698	RÖBERGSFJÄLLET	601641.0N 0141315.1E	410	2133	F R	Wind turbine
	8699	RÖBERGSFJÄLLET	601638.7N 0141335.7E	410	2139	F R	Wind turbine
	8700	RÖBERGSFJÄLLET	601633.7N 0141240.6E	410	2087	F R	Wind turbine
	8701	RÖBERGSFJÄLLET	601625.6N 0141313.7E	410	2152	F R	Wind turbine
	8801	BRINGSJÖBERG	600631.1N 0144651.3E	335	1791	FLG R	Wind turbine
	9079	SILKOMHÖJDEN	601421.2N 0141152.1E	456	1864	F R	Wind turbine
	9080	SILKOMHÖJDEN	601432.3N 0141149.2E	456	1961	F R	Wind turbine
	9081	SILKOMHÖJDEN	601443.9N 0141147.4E	456	1850	F R	Wind turbine
	9082	SILKOMHÖJDEN	601451.6N 0141246.1E	456	1952	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	9083	SILKOMHÖJDEN	601504.4N 0141232.0E	456	1932	F R	Wind turbine
	9084	KJÖKEBERGET	601514.9N 0141238.3E	456	1972	F R	Wind turbine
	9107	GRÄNGESBERG	600727.8N 0145655.6E	492	1803	F R	Wind turbine
	9108	GRÄNGESBERG	600730.5N 0145626.9E	492	1857	FLG R	Wind turbine
	9109	GRÄNGESBERG	600734.7N 0145724.8E	492	1841	F R	Wind turbine
	9110	GRÄNGESBERG	600712.9N 0145430.4E	492	1937	FLG R	Wind turbine
	9111	GRÄNGESBERG	600717.8N 0145344.7E	492	1834	FLG R	Wind turbine
	9112	GRÄNGESBERG	600713.9N 0145517.7E	492	1857	FLG R	Wind turbine
	9113	GRÄNGESBERG	600725.9N 0145459.8E	492	1850	F R	Wind turbine
	9114	GRÄNGESBERG	600606.7N 0145615.7E	492	1842	FLG R	Wind turbine
	9115	GRÄNGESBERG	600746.3N 0145740.0E	492	1931	FLG R	Wind turbine
	9116	GRÄNGESBERG	600744.6N 0145501.9E	492	1837	FLG R	Wind turbine
	9117	GRÄNGESBERG	600609.2N 0145513.4E	492	1965	FLG R	Wind turbine
	9118	GRÄNGESBERG	600725.9N 0145417.1E	492	1877	F R	Wind turbine
	9124	SÄLEN	604855.8N 0142411.1E	410	2053	FLG R	Wind turbine
	9125	SÄLEN	604838.8N 0142403.2E	410	2118	F R	Wind turbine
	9126	SÄLEN	604833.2N 0142428.2E	410	2176	F R	Wind turbine
	9127	SÄLEN	604824.0N 0142402.3E	410	2187	FLG R	Wind turbine
	9128	SÄLEN	604759.6N 0142411.7E	410	2263	FLG R	Wind turbine
	9129	SÄLEN	604748.6N 0142406.8E	410	2231	F R	Wind turbine
	9130	SÄLEN	604735.5N 0142359.2E	410	2332	F R	Wind turbine
	9131	SÄLEN	604725.0N 0142408.1E	410	2291	FLG R	Wind turbine
	13619	GRÄNGESBERG	600545.7N 0145326.9E	591	1936	F R	Wind turbine
	13620	GRÄNGESBERG	600541.7N 0145352.2E	591	1949	FLG W	Wind turbine
	16995	BADDOBERGET	600550.1N 0145259.1E	591	1913	unknown	Wind turbine
60N 15E	363	BORLÄNGE/IDKERBERGET	602256.3N 0150818.2E	1073	2676	FLG W	Mast
	370	VIKMANSHYTTAN	601838.9N 0154929.5E	338	971	F R	Mast
	3613	FALUN/LÖVBERGET	603735.0N 0153406.8E	371	1074	F R	Mast
	8398	UVBERGET	600942.6N 0152358.2E	328	1322	FLG R	Wind turbine
	9046	SÖRSKOG	604810.3N 0152323.8E	459	1969	FLG R	Wind turbine
	9047	SÖRSKOG	604756.9N 0152330.6E	459	1969	FLG R	Wind turbine
	9048	SÖRSKOG	604728.1N 0152406.6E	459	1949	FLG R	Wind turbine
	9049	SÖRSKOG	604719.3N 0152344.7E	459	1893	FLG R	Wind turbine
	9050	SÖRSKOG	604743.5N 0152434.2E	459	1952	FLG R	Wind turbine
	9879	UVBERGET	600949.3N 0152413.5E	328	1286	FLG R	Wind turbine
	9885	TAVELBERGET	605208.3N 0155757.2E	492	1936	FLG R	Wind turbine
	9886	TAVELBERGET	605154.2N 0155814.4E	492	1936	FLG R	Wind turbine
	9887	TAVELBERGET	605136.3N 0155748.6E	492	1962	FLG R	Wind turbine
	9888	TAVELBERGET	605123.0N 0155729.8E	492	1982	FLG R	Wind turbine
	9889	TAVELBERGET	605114.3N 0155754.8E	492	1936	FLG R	Wind turbine
	12702	TAVELBERGET	605135.1N 0155846.5E	492	1962	FLG R	Wind turbine
	13738	IDKERBERGET	602205.8N 0150528.0E	489	2024	FLG R	Wind turbine
	13739	IDKERBERGET	602150.1N 0150515.1E	489	1955	FLG R	Wind turbine
	13740	IDKERBERGET	602155.7N 0150553.2E	489	2014	FLG R	Wind turbine
	13741	IDKERBERGET	602145.3N 0150621.4E	489	1982	FLG R	Wind turbine
	13742	IDKERBERGET	602130.2N 0150547.2E	489	1965	FLG R	Wind turbine
	13743	IDKERBERGET	602106.3N 0150548.7E	489	1896	FLG R	Wind turbine
	13744	IDKERBERGET	602118.0N 0150614.4E	489	1985	FLG R	Wind turbine
	13745	IDKERBERGET	602111.2N 0150644.6E	489	1972	FLG R	Wind turbine
	13746	IDKERBERGET	602055.7N 0150635.8E	489	2005	FLG R	Wind turbine
	17219	LUDVIKA	600123.6N 0150931.5E	656	1799	F R	Wind turbine
	17220	LUDVIKA	600109.1N 0150937.2E	656	1765	F R	Wind turbine
	17221	LUDVIKA	600112.8N 0150853.9E	656	1774	FLG W	Wind turbine
	17222	LUDVIKA	600055.4N 0150915.1E	656	1749	F R	Wind turbine
	17223	LUDVIKA	600028.8N 0150851.8E	656	1726	FLG W	Wind turbine
	17224	LUDVIKA	600033.2N 0151012.8E	656	1766	F R	Wind turbine
	17225	LUDVIKA	600046.8N 0151018.2E	656	1809	F R	Wind turbine
	17226	LUDVIKA	600100.6N 0151001.8E	656	1881	F R	Wind turbine
	17227	LUDVIKA	600122.5N 0151006.5E	656	1865	FLG W	Wind turbine
	17228	LUDVIKA	600108.7N 0151030.4E	656	1883	F R	Wind turbine
	17229	LUDVIKA	600107.1N 0151053.9E	656	1942	F R	Wind turbine
	17230	LUDVIKA	600053.1N 0151104.4E	656	1883	FLG W	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
60N 16E	17231	LUDVIKA	600027.8N 0151055.2E	656	1866	F R	Wind turbine
	17232	LUDVIKA	600017.2N 0151105.8E	656	1861	FLG W	Wind turbine
	17233	LUDVIKA	600044.2N 0150936.5E	656	1762	F R	Wind turbine
	9682	IVANTJÄRN	604627.5N 0163524.8E	489	1352	FLG R	Wind turbine
	9683	IVANTJÄRN	604615.2N 0163511.1E	489	1335	FLG R	Wind turbine
	10284	SNEÅSEN	604650.6N 0162051.7E	361	1322	F R	Mast
	10305	VETTÅSEN	604746.0N 0163443.0E	492	1381	FLG R	Wind turbine
	10306	VETTÅSEN	604730.8N 0163445.9E	492	1362	FLG R	Wind turbine
	10307	VETTÅSEN	604720.7N 0163459.2E	492	1329	FLG R	Wind turbine
	10308	VETTÅSEN	604704.5N 0163449.7E	492	1318	FLG R	Wind turbine
	10309	VETTÅSEN	604701.7N 0163542.7E	492	1263	FLG R	Wind turbine
	10310	VETTÅSEN	604647.4N 0163527.1E	492	1289	FLG R	Wind turbine
	10323	MÄRTENSKLACK	604843.7N 0163921.6E	492	1332	FLG R	Wind turbine
	10324	MÄRTENSKLACK	604834.7N 0163942.8E	492	1378	FLG R	Wind turbine
	10325	MÄRTENSKLACK	604848.6N 0163946.1E	492	1332	FLG R	Wind turbine
	10326	MÄRTENSKLACK	604839.4N 0164007.9E	492	1358	FLG R	Wind turbine
	10709	JÄDRAÅS	604740.5N 0161804.0E	394	1457	F R	Mast
	10710	JÄDRAÅS	604813.2N 0161738.1E	394	1417	F R	Mast
	10711	JÄDRAÅS	604917.2N 0162408.2E	394	1398	F R	Mast
	10793	KUNGSBERG	604704.8N 0162707.4E	492	1506	FLG R	Wind turbine
	10794	KUNGSBERG	604712.6N 0162747.2E	492	1500	FLG R	Wind turbine
	10838	ROBERTSHOLM	603525.9N 0161828.2E	492	1401	FLG R	Wind turbine
	10839	ROBERTSHOLM	603546.7N 0161856.5E	492	1342	FLG R	Wind turbine
	10840	ROBERTSHOLM	603526.2N 0161920.2E	492	1345	FLG R	Wind turbine
	10841	ROBERTSHOLM	603511.9N 0161918.7E	492	1355	FLG R	Wind turbine
	10843	JÄDRAÅS	604735.3N 0162842.7E	574	1414	FLG W	Wind turbine
	10844	JÄDRAÅS	604747.5N 0162830.3E	574	1460	F R	Wind turbine
	10845	JÄDRAÅS	604743.3N 0162753.4E	574	1562	F R	Wind turbine
	10846	JÄDRAÅS	604729.7N 0162737.9E	574	1594	F R	Wind turbine
	10847	JÄDRAÅS	604740.5N 0162713.9E	574	1549	FLG W	Wind turbine
	10848	JÄDRAÅS	604727.8N 0162656.3E	574	1555	F R	Wind turbine
	10849	JÄDRAÅS	604743.2N 0162636.0E	574	1532	F R	Wind turbine
	10850	JÄDRAÅS	604728.6N 0162624.3E	574	1562	F R	Wind turbine
	10851	JÄDRAÅS	604744.1N 0162557.0E	574	1516	F R	Wind turbine
	10852	JÄDRAÅS	604731.6N 0162526.0E	574	1506	FLG W	Wind turbine
	10853	JÄDRAÅS	604754.7N 0162523.0E	574	1499	F R	Wind turbine
	10854	JÄDRAÅS	604732.9N 0162424.5E	574	1473	F R	Wind turbine
	10877	GARPENBERG	602024.5N 0161238.0E	492	1355	FLG R	Wind turbine
	10878	GARPENBERG	602058.4N 0161422.8E	492	1352	FLG R	Wind turbine
	10879	GARPENBERG	602055.1N 0161324.1E	492	1341	FLG R	Wind turbine
	10880	GARPENBERG	602037.0N 0161619.8E	492	1339	FLG R	Wind turbine
	10881	GARPENBERG	602024.5N 0161633.3E	492	1322	FLG R	Wind turbine
	10882	GARPENBERG	602158.2N 0161704.5E	492	1276	FLG R	Wind turbine
	10883	GARPENBERG	602203.7N 0161807.6E	492	1309	FLG R	Wind turbine
	11035	JÄDRAÅS	604737.4N 0162305.1E	574	1542	F R	Wind turbine
	11036	JÄDRAÅS	604752.0N 0162312.7E	574	1631	F R	Wind turbine
	11037	JÄDRAÅS	604802.8N 0162255.3E	574	1808	F R	Wind turbine
	11038	JÄDRAÅS	604750.0N 0162230.5E	574	1716	F R	Wind turbine
	11039	JÄDRAÅS	604806.2N 0162224.3E	574	1657	F R	Wind turbine
	11040	JÄDRAÅS	604803.2N 0162147.9E	574	1660	F R	Wind turbine
	11041	JÄDRAÅS	604750.7N 0162133.3E	574	1640	F R	Wind turbine
	11042	JÄDRAÅS	604801.1N 0162106.3E	574	1640	F R	Wind turbine
11043	JÄDRAÅS	604715.6N 0162143.1E	574	1568	F R	Wind turbine	
11044	JÄDRAÅS	604625.6N 0162205.1E	574	1549	FLG W	Wind turbine	
11045	JÄDRAÅS	604656.1N 0162114.8E	574	1565	F R	Wind turbine	
11046	JÄDRAÅS	604641.4N 0162059.7E	574	1552	F R	Wind turbine	
11047	JÄDRAÅS	604656.4N 0162030.2E	574	1581	FLG W	Wind turbine	
11048	JÄDRAÅS	604714.1N 0162030.8E	574	1647	F R	Wind turbine	
11049	JÄDRAÅS	604731.1N 0162016.1E	574	1660	F R	Wind turbine	
11050	JÄDRAÅS	604708.0N 0161947.7E	574	1680	F R	Wind turbine	
11126	JÄDRAÅS	604734.3N 0161941.5E	574	1693	F R	Wind turbine	
11128	JÄDRAÅS	604719.9N 0161921.2E	574	1680	F R	Wind turbine	

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	11129	JÄDRAÅS	604736.1N 0161908.1E	574	1699	F R	Wind turbine
	11130	JÄDRAÅS	604747.2N 0161858.1E	574	1729	F R	Wind turbine
	11131	JÄDRAÅS	604727.5N 0161828.7E	574	1709	F R	Wind turbine
	11132	JÄDRAÅS	604739.9N 0161822.3E	574	1693	FLG W	Wind turbine
	11133	JÄDRAÅS	604801.0N 0161859.1E	574	1693	F R	Wind turbine
	11134	JÄDRAÅS	604813.6N 0161908.7E	574	1608	F R	Wind turbine
	11135	JÄDRAÅS	604755.4N 0161829.6E	574	1690	F R	Wind turbine
	11136	JÄDRAÅS	604748.7N 0161756.0E	574	1670	F R	Wind turbine
	11137	JÄDRAÅS	604813.5N 0161812.8E	574	1663	F R	Wind turbine
	11138	JÄDRAÅS	604827.0N 0161837.6E	574	1591	F R	Wind turbine
	11139	JÄDRAÅS	604821.0N 0161744.9E	574	1634	FLG W	Wind turbine
	11140	JÄDRAÅS	604804.7N 0161737.8E	574	1644	F R	Wind turbine
	11193	JÄDRAÅS	605004.2N 0161839.5E	574	1624	FLG W	Wind turbine
	11194	JÄDRAÅS	604946.7N 0161912.8E	574	1757	F R	Wind turbine
	11195	JÄDRAÅS	605003.5N 0161914.6E	574	1713	F R	Wind turbine
	11196	JÄDRAÅS	605010.6N 0161942.1E	574	1713	F R	Wind turbine
	11197	JÄDRAÅS	604926.9N 0161936.1E	574	1686	F R	Wind turbine
	11198	JÄDRAÅS	604945.4N 0161943.4E	574	1716	F R	Wind turbine
	11199	JÄDRAÅS	605000.7N 0161957.9E	574	1696	FLG W	Wind turbine
	11200	JÄDRAÅS	604949.1N 0162012.4E	574	1670	F R	Wind turbine
	11201	JÄDRAÅS	604931.4N 0162107.9E	574	1716	F R	Wind turbine
	11202	JÄDRAÅS	604920.7N 0162142.0E	574	1677	F R	Wind turbine
	11203	JÄDRAÅS	604938.6N 0162156.2E	574	1647	F R	Wind turbine
	11204	JÄDRAÅS	604942.1N 0162232.7E	574	1568	F R	Wind turbine
	11205	JÄDRAÅS	604952.2N 0162305.4E	574	1519	FLG W	Wind turbine
	11206	JÄDRAÅS	604936.7N 0162341.6E	574	1535	F R	Wind turbine
	11207	JÄDRAÅS	604921.0N 0162355.1E	574	1591	F R	Wind turbine
	11208	JÄDRAÅS	604910.1N 0162416.4E	574	1549	F R	Wind turbine
	11209	JÄDRAÅS	604855.8N 0162428.0E	574	1516	FLG W	Wind turbine
	11218	JÄDRAÅS	604916.5N 0161952.3E	574	1703	F R	Wind turbine
	11219	JÄDRAÅS	604932.7N 0162001.7E	574	1729	F R	Wind turbine
	11220	JÄDRAÅS	604937.8N 0162033.3E	574	1706	F R	Wind turbine
	11221	JÄDRAÅS	604916.3N 0162045.8E	574	1614	F R	Wind turbine
	11222	JÄDRAÅS	604907.7N 0162121.1E	574	1617	F R	Wind turbine
	11223	JÄDRAÅS	604909.2N 0162218.7E	574	1565	F R	Wind turbine
	12738	KUNGSBERG	604452.3N 0162256.8E	623	1522	F R	Wind turbine
	12739	KUNGSBERG	604434.9N 0162244.6E	623	1532	FLG W	Wind turbine
	12740	KUNGSBERG	604501.8N 0162331.3E	623	1506	FLG W	Wind turbine
	12741	KUNGSBERG	604437.7N 0162322.4E	623	1539	F R	Wind turbine
	12742	KUNGSBERG	604417.2N 0162318.1E	623	1594	F R	Wind turbine
	12743	KUNGSBERG	604459.1N 0162406.9E	623	1496	F R	Wind turbine
	12744	KUNGSBERG	604427.5N 0162402.1E	623	1496	F R	Wind turbine
	12745	KUNGSBERG	604402.8N 0162349.4E	623	1539	FLG W	Wind turbine
	12746	KUNGSBERG	604446.9N 0162437.7E	623	1470	FLG W	Wind turbine
	12747	KUNGSBERG	604413.1N 0162428.4E	623	1483	FLG W	Wind turbine
	13839	SVARTNÄS	605040.9N 0160752.8E	591	1886	FLG W	Wind turbine
	13840	SVARTNÄS	605016.6N 0160818.1E	591	1942	F R	Wind turbine
	13841	SVARTNÄS	605034.2N 0160839.7E	591	1916	F R	Wind turbine
	13842	SVARTNÄS	604946.4N 0160707.4E	591	1952	FLG W	Wind turbine
	13843	SVARTNÄS	604955.4N 0160804.3E	591	1982	F R	Wind turbine
	13844	SVARTNÄS	604926.4N 0160839.8E	591	1818	F R	Wind turbine
	13845	SVARTNÄS	604957.0N 0160900.0E	591	1886	F R	Wind turbine
	13846	SVARTNÄS	604934.8N 0160936.6E	591	1896	F R	Wind turbine
	13847	SVARTNÄS	605018.7N 0160951.1E	591	1880	FLG W	Wind turbine
	13848	SVARTNÄS	605037.7N 0160922.1E	591	1864	FLG W	Wind turbine
	13849	SVARTNÄS	604905.1N 0160824.7E	591	1762	F R	Wind turbine
	13850	SVARTNÄS	604848.3N 0160758.0E	591	1759	FLG W	Wind turbine
	13851	SVARTNÄS	604815.0N 0161149.9E	591	1699	FLG W	Wind turbine
	13852	SVARTNÄS	604820.5N 0161111.0E	591	1719	F R	Wind turbine
	13853	SVARTNÄS	604839.1N 0161109.6E	591	1801	FLG W	Wind turbine
	13854	SVARTNÄS	604832.3N 0161029.7E	591	1739	F R	Wind turbine
	13855	SVARTNÄS	604820.9N 0160953.4E	591	1686	FLG W	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13856	SVARTNÄS	604839.0N 0160944.7E	591	1775	F R	Wind turbine
	13857	SVARTNÄS	604839.5N 0160858.7E	591	1729	F R	Wind turbine
	13858	SVARTNÄS	604745.2N 0161208.0E	591	1650	F R	Wind turbine
	13859	SVARTNÄS	604711.8N 0161400.9E	591	1703	F R	Wind turbine
	13860	SVARTNÄS	604652.0N 0161433.1E	591	1617	F R	Wind turbine
	13861	SVARTNÄS	604642.9N 0161514.9E	591	1594	F R	Wind turbine
	13862	SVARTNÄS	604707.7N 0161547.9E	591	1660	FLG W	Wind turbine
	13863	SVARTNÄS	604725.9N 0161525.0E	591	1677	FLG W	Wind turbine
	13864	SVARTNÄS	604723.3N 0161442.1E	591	1660	F R	Wind turbine
	13865	SVARTNÄS	604620.6N 0161455.1E	591	1499	FLG W	Wind turbine
	13866	SVARTNÄS	604631.1N 0161419.0E	591	1506	F R	Wind turbine
	13867	SVARTNÄS	604702.3N 0161258.6E	591	1650	F R	Wind turbine
	13868	SVARTNÄS	604709.5N 0161217.1E	591	1673	FLG W	Wind turbine
	13869	SVARTNÄS	604645.4N 0161235.3E	591	1578	F R	Wind turbine
	13870	SVARTNÄS	604625.6N 0161301.2E	591	1529	FLG W	Wind turbine
	13871	SVARTNÄS	605310.3N 0160840.3E	591	1985	FLG W	Wind turbine
	13872	SVARTNÄS	605215.4N 0160808.2E	591	2047	F R	Wind turbine
	13873	SVARTNÄS	605220.8N 0160850.9E	591	1913	FLG W	Wind turbine
	13874	SVARTNÄS	605227.0N 0160747.0E	591	2021	FLG W	Wind turbine
	13875	SVARTNÄS	605230.3N 0160828.9E	591	2087	F R	Wind turbine
	13876	SVARTNÄS	605239.7N 0160912.5E	591	1959	FLG W	Wind turbine
	13877	SVARTNÄS	605241.6N 0160815.2E	591	2060	F R	Wind turbine
	13878	SVARTNÄS	605255.0N 0160849.8E	591	1919	F R	Wind turbine
	13879	SVARTNÄS	605253.8N 0160806.9E	591	1936	F R	Wind turbine
	13941	JÄDRAÅS	604838.2N 0161353.0E	466	1519	F R	Mast
	14122	SVÄRDSJÖ	604159.0N 0160106.1E	492	1493	FLG R	Wind turbine
	14244	AVESTA	600638.2N 0160406.7E	656	1171	FLG W	Wind turbine
	14245	AVESTA	600602.3N 0160426.8E	656	1227	F R	Wind turbine
	14246	AVESTA	600545.2N 0160525.6E	656	1207	F R	Wind turbine
	14247	AVESTA	600632.7N 0160310.7E	656	1211	FLG W	Wind turbine
	14248	AVESTA	600548.6N 0160613.1E	656	1204	F R	Wind turbine
	14249	AVESTA	600552.3N 0160705.2E	656	1184	FLG W	Wind turbine
	14250	AVESTA	600621.5N 0160712.8E	656	1135	FLG W	Wind turbine
	14251	AVESTA	600618.7N 0160628.9E	656	1165	F R	Wind turbine
	14252	AVESTA	600622.3N 0160751.2E	656	1115	F R	Wind turbine
	14253	AVESTA	600610.6N 0160809.9E	656	1129	F R	Wind turbine
	14254	AVESTA	600557.2N 0160822.0E	656	1099	F R	Wind turbine
	14255	AVESTA	600559.0N 0160908.5E	656	1122	F R	Wind turbine
	14256	AVESTA	600626.5N 0160953.0E	656	1040	FLG W	Wind turbine
	14257	AVESTA	600544.2N 0160929.6E	656	1102	F R	Wind turbine
	14258	AVESTA	600608.3N 0160959.3E	656	1043	F R	Wind turbine
	14259	AVESTA	600528.9N 0160942.6E	656	1138	F R	Wind turbine
	14260	AVESTA	600616.1N 0160314.2E	656	1243	FLG W	Wind turbine
	14261	AVESTA	600543.7N 0160353.3E	656	1240	FLG W	Wind turbine
	14262	AVESTA	600521.4N 0160435.6E	656	1175	FLG W	Wind turbine
	14263	AVESTA	600518.2N 0161040.1E	656	1070	FLG W	Wind turbine
	14264	AVESTA	600441.3N 0160849.3E	656	1099	F R	Wind turbine
	14265	AVESTA	600415.0N 0160856.1E	656	1037	FLG W	Wind turbine
	14266	AVESTA	600557.8N 0160502.9E	656	1220	F R	Wind turbine
	14267	AVESTA	600501.6N 0160922.5E	656	1079	F R	Wind turbine
	14268	AVESTA	600414.4N 0160938.0E	656	1020	FLG W	Wind turbine
	14269	AVESTA	600621.2N 0160440.5E	656	1171	F R	Wind turbine
	14270	AVESTA	600625.5N 0160553.8E	656	1184	FLG W	Wind turbine
	14443	ÅMOT	605600.9N 0162459.1E	591	1624	F R	Mast
	14444	ÅMOT	605424.3N 0162629.1E	492	1562	F R	Mast
	14863	LÄNGSHYTTAN	603226.4N 0160557.1E	656	1642	FLG W	Wind turbine
	14864	LÄNGSHYTTAN	603226.4N 0160507.1E	656	1636	FLG W	Wind turbine
	14865	LÄNGSHYTTAN	603227.9N 0160430.4E	656	1593	F R	Wind turbine
	14866	LÄNGSHYTTAN	603219.4N 0160320.7E	656	1681	FLG W	Wind turbine
	14867	LÄNGSHYTTAN	603209.7N 0160510.3E	656	1599	F R	Wind turbine
	14868	LÄNGSHYTTAN	603202.7N 0160436.5E	656	1603	F R	Wind turbine
	14869	LÄNGSHYTTAN	603151.9N 0160455.3E	656	1659	FLG W	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	15768	HOFORS	603006.1N 0161417.3E	656	1286	FLG W	Wind turbine
	15769	HOFORS	602959.5N 0161451.1E	656	1234	FLG W	Wind turbine
	15770	HOFORS	602940.4N 0161446.8E	656	1168	FLG W	Wind turbine
	15771	HOFORS	602940.3N 0161359.4E	656	1204	FLG W	Wind turbine
	15772	HOFORS	602144.3N 0162850.5E	656	1222	FLG W	Wind turbine
	15773	HOFORS	602104.4N 0162912.4E	656	1186	FLG W	Wind turbine
	15774	HOFORS	602110.3N 0162752.6E	656	1190	FLG W	Wind turbine
	15775	HOFORS	602045.1N 0162814.9E	656	1294	FLG R	Wind turbine
	15776	HOFORS	602022.1N 0162721.6E	656	1259	FLG W	Wind turbine
	15777	HOFORS	602015.2N 0162825.2E	656	1257	FLG R	Wind turbine
	15778	HOFORS	602002.1N 0162911.1E	656	1208	FLG W	Wind turbine
	15779	HOFORS	602001.5N 0162737.0E	656	1242	FLG R	Wind turbine
	15780	HOFORS	601940.2N 0162806.0E	656	1188	FLG W	Wind turbine
	15781	HOFORS	601828.6N 0163117.7E	656	1169	FLG W	Wind turbine
	15782	HOFORS	601830.4N 0163223.4E	656	1167	FLG W	Wind turbine
	15783	HOFORS	601832.0N 0163308.3E	656	1144	FLG R	Wind turbine
	15888	LÅNGHYTTAN	603113.8N 0160444.5E	335	1385	F R	Mast
	16280	TROLLBERGET	604212.7N 0160050.9E	492	1572	unknown	Wind turbine
	16284	SNEÅSEN	604750.1N 0161939.0E	574	1697	unknown	Wind turbine
60N 17E	383	GÄVLE	603751.2N 0170745.5E	1070	1232	F R/FLG W	Mast
	384	SKUTSKÅR	603844.2N 0172315.8E	394	423	F R	Chimney
	386	GÄVLE/KARSKÅRSVERKEN	604058.3N 0171616.2E	482	496	F R	Chimney
	681	SALSTA/SLÄSBY	600445.2N 0174950.2E	374	606	F R	Mast
	1145	TÄRNSJÖ	600921.5N 0170226.8E	348	523	F R	Mast
	1402	EDSBO	601759.9N 0172029.1E	338	469	F R	Mast
	1611	NORUNDA	600511.0N 0172846.2E	341	483	F R	Mast
	2305	GÄVLE/STUREBORG	603824.8N 0170759.8E	361	531	F R	Mast
	3224	TOBO	601712.7N 0173959.8E	394	539	F R	Mast
	6370	SKUTSKÅR	603843.1N 0172320.6E	335	347	F R	Chimney
	9614	SKUTSKÅR	603912.3N 0172259.9E	492	505	FLG R	Wind turbine
	9615	SKUTSKÅR	603914.8N 0172326.0E	492	505	FLG R	Wind turbine
	9616	SKUTSKÅR	603914.1N 0172402.1E	492	502	FLG R	Wind turbine
	9617	SKUTSKÅR	603917.0N 0172421.2E	492	505	FLG R	Wind turbine
	9618	SKUTSKÅR	603910.7N 0172441.7E	492	515	FLG R	Wind turbine
	13297	GÄVLE	603339.8N 0171317.6E	486	656	FLG R	Mast
	14511	GÄVLE	604131.9N 0171350.9E	407	417	FLG R	Crane
	14512	GÄVLE	604131.6N 0171349.0E	407	417	FLG R	Crane
	16742	KARSKÅR	604053.1N 0171621.2E	328	342	unknown	Chimney
	16744	KARSKÅR	604051.4N 0171621.2E	381	396	unknown	Chimney
	16745	KARSKÅR	604054.0N 0171618.1E	361	375	unknown	Chimney
60N 18E	394	ÖSTHAMMAR/VALÖ	601546.9N 0180421.3E	1086	1228	F R/FLG W	Mast
	395	FORSMARK 1	602413.8N 0181024.6E	335	340	F R	Chimney
	396	FORSMARK 2	602404.9N 0181058.5E	344	350	F R	Mast
	397	GRISSEHAMN	600530.8N 0184857.6E	361	458	F R	Mast
	398	GRÄSÖ	602949.6N 0182352.0E	358	419	F R	Mast
	840	FORSMARK 5	602419.3N 0180939.3E	328	338	F R	Chimney
	1134	HALLSTAVIK	600417.4N 0183446.3E	341	396	F R	Mast
	1404	LÅNGALMA	601613.6N 0182825.7E	348	366	F R	Mast
	3918	GUDINGE	603127.4N 0180043.8E	702	712	F R/FLG W	Mast, Note:Support cables within radius 300 m.
	5091	FORSMARK	602409.4N 0181031.1E	335	340	F R	Chimney
	11938	HALLSTAVIK	600459.4N 0183359.0E	607	699	FLG R	Wind turbine
	11939	HALLSTAVIK	600448.5N 0183416.0E	607	699	FLG R	Wind turbine
	11940	HALLSTAVIK	600427.1N 0183322.8E	607	709	FLG R	Wind turbine
	11941	HALLSTAVIK	600418.0N 0183342.5E	607	705	FLG R	Wind turbine
	11942	HALLSTAVIK	600350.6N 0183355.8E	607	689	FLG R	Wind turbine
	11943	HALLSTAVIK	600520.9N 0183258.6E	607	696	FLG R	Wind turbine
	11944	HALLSTAVIK	600522.2N 0183325.1E	607	696	FLG R	Wind turbine
	11945	HALLSTAVIK	600517.9N 0183409.9E	607	673	FLG R	Wind turbine
	11946	HALLSTAVIK	600504.9N 0183234.4E	607	689	FLG R	Wind turbine
	11947	HALLSTAVIK	600454.2N 0183316.7E	607	709	FLG R	Wind turbine
	11948	HALLSTAVIK	600525.0N 0183212.4E	607	653	FLG W	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
61N 13E	11949	HALLSTAVIK	600531.5N 0183400.3E	607	682	FLG W	Wind turbine
	11950	HALLSTAVIK	600510.1N 0183202.2E	607	659	FLG W	Wind turbine
	11951	HALLSTAVIK	600426.2N 0183246.9E	607	692	FLG W	Wind turbine
	11952	HALLSTAVIK	600431.0N 0183428.8E	607	692	FLG W	Wind turbine
	11953	HALLSTAVIK	600357.5N 0183321.8E	607	699	FLG W	Wind turbine
	11954	HALLSTAVIK	600357.5N 0183426.8E	607	692	FLG W	Wind turbine
	12377	FORSMARK	602430.8N 0180951.0E	335	350	F R	Mast
	407	TRANSTRAND	610307.9N 0131812.2E	367	2330	F R	Mast
	10046	BOSEL-ANDERSKITT	611245.6N 0135053.5E	410	2467	FLG R	Wind turbine
	10047	BOSEL-ANDERSKITT	611231.3N 0135041.3E	410	2500	FLG R	Wind turbine
	10048	BOSEL-ANDERSKITT	611233.1N 0135104.0E	410	2480	FLG R	Wind turbine
	10049	BOSEL-ANDERSKITT	611223.8N 0135120.2E	410	2464	FLG R	Wind turbine
	10050	BOSEL-ANDERSKITT	611214.8N 0135139.1E	410	2415	FLG R	Wind turbine
	14516	ÅNDBERGET	614746.6N 0135812.3E	591	2728	FLG W	Wind turbine
	14517	ÅNDBERGET	614734.2N 0135836.3E	591	2785	FLG W	Wind turbine
	14518	ÅNDBERGET	614721.4N 0135901.2E	591	2702	F R	Wind turbine
	14519	ÅNDBERGET	614659.3N 0135739.0E	591	2867	F R	Wind turbine
	14520	ÅNDBERGET	614645.8N 0135806.7E	591	2795	FLG W	Wind turbine
	14521	ÅNDBERGET	614630.9N 0135851.2E	591	2936	F R	Wind turbine
	14522	ÅNDBERGET	614640.2N 0135933.6E	591	2726	F R	Wind turbine
	14523	ÅNDBERGET	614617.1N 0135915.2E	591	2851	FLG W	Wind turbine
	14524	ÅNDBERGET	614630.0N 0135623.1E	591	2749	F R	Wind turbine
	14525	ÅNDBERGET	614621.4N 0135700.9E	591	2838	FLG W	Wind turbine
	14526	ÅNDBERGET	614618.3N 0135748.2E	591	2838	FLG W	Wind turbine
	14527	ÅNDBERGET	614602.9N 0135829.0E	591	2867	F R	Wind turbine
	14528	ÅNDBERGET	614600.4N 0135627.6E	591	2776	FLG W	Wind turbine
	14529	ÅNDBERGET	614603.6N 0135716.5E	591	2887	F R	Wind turbine
	14530	ÅNDBERGET	614552.1N 0135748.5E	591	3038	F R	Wind turbine
	14531	ÅNDBERGET	614543.6N 0135829.8E	591	2953	FLG W	Wind turbine
	14532	ÅNDBERGET	614541.3N 0135705.1E	591	2861	F R	Wind turbine
	14533	ÅNDBERGET	614530.5N 0135751.4E	591	3048	F R	Wind turbine
	14534	ÅNDBERGET	614526.1N 0135838.2E	591	2851	FLG W	Wind turbine
	14535	ÅNDBERGET	614507.4N 0135621.2E	591	2792	FLG W	Wind turbine
	14536	ÅNDBERGET	614509.4N 0135722.4E	591	2848	F R	Wind turbine
	14537	ÅNDBERGET	614459.4N 0135743.8E	591	2910	F R	Wind turbine
	14538	ÅNDBERGET	614448.1N 0135840.9E	591	2923	FLG W	Wind turbine
	14539	ÅNDBERGET	614443.1N 0135701.2E	591	2969	F R	Wind turbine
	14540	ÅNDBERGET	614441.4N 0135754.8E	591	3081	F R	Wind turbine
	14541	ÅNDBERGET	614419.4N 0135806.2E	591	2933	F R	Wind turbine
	14542	ÅNDBERGET	614413.7N 0135844.1E	591	2743	F R	Wind turbine
	14543	ÅNDBERGET	614359.0N 0135454.8E	591	2782	F R	Wind turbine
	14544	ÅNDBERGET	614357.6N 0135543.8E	591	2730	F R	Wind turbine
	14545	ÅNDBERGET	614340.0N 0135501.5E	591	2736	F R	Wind turbine
	14546	ÅNDBERGET	614339.8N 0135558.5E	591	2795	F R	Wind turbine
	14548	ÅNDBERGET	614322.7N 0135518.7E	591	2785	F R	Wind turbine
	14549	ÅNDBERGET	614316.6N 0135726.2E	591	2851	F R	Wind turbine
	14550	ÅNDBERGET	614304.8N 0135531.1E	591	2854	F R	Wind turbine
14551	ÅNDBERGET	614304.2N 0135645.1E	591	2936	F R	Wind turbine	
14552	ÅNDBERGET	614257.6N 0135726.7E	591	2949	FLG W	Wind turbine	
14553	ÅNDBERGET	614303.3N 0135932.6E	591	2841	FLG W	Wind turbine	
14554	ÅNDBERGET	614244.9N 0135623.7E	591	3045	F R	Wind turbine	
14555	ÅNDBERGET	614243.3N 0135751.5E	591	3012	F R	Wind turbine	
14556	ÅNDBERGET	614241.6N 0135832.5E	591	2930	FLG W	Wind turbine	
14557	ÅNDBERGET	614243.6N 0135957.8E	591	2943	F R	Wind turbine	
14560	ÅNDBERGET	614233.1N 0135653.7E	591	3041	F R	Wind turbine	
14561	ÅNDBERGET	614223.8N 0135723.9E	591	3002	F R	Wind turbine	
14562	ÅNDBERGET	614227.0N 0135807.4E	591	3110	FLG W	Wind turbine	
14564	ÅNDBERGET	614207.7N 0135950.6E	591	2956	F R	Wind turbine	
14567	ÅNDBERGET	614153.5N 0135917.3E	591	2963	FLG W	Wind turbine	
14568	ÅNDBERGET	614133.5N 0135920.0E	591	2858	FLG W	Wind turbine	
61N 14E	409	MORA/ELDRIS	610101.5N 0141743.7E	1063	2817	FLG W	Mast
	410	SVEG/BRICKAN	615524.8N 0141844.4E	1063	3394	F R/FLG W	Mast

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	412	KRÄCKELBÄCKEN	612934.0N 0141229.0E	335	2667	F R	Mast
	8663	BRICKAN	615520.0N 0141826.1E	410	2670	F R	Wind turbine
	11919	BÖSJÖVARDEN	611907.4N 0142004.1E	492	2625	FLG R	Wind turbine
	11920	BÖSJÖVARDEN	611852.6N 0141947.9E	492	2730	FLG R	Wind turbine
	11921	BÖSJÖVARDEN	611855.1N 0141914.8E	492	2644	FLG R	Wind turbine
	11923	BÖSJÖVARDEN	611827.2N 0141904.3E	492	2575	FLG R	Wind turbine
	11924	BÖSJÖVARDEN	611817.1N 0141930.4E	492	2575	FLG R	Wind turbine
	11925	BÖSJÖVARDEN	611831.9N 0141957.5E	492	2621	FLG R	Wind turbine
	11926	BÖSJÖVARDEN	611756.7N 0141922.3E	492	2520	FLG R	Wind turbine
	11927	BÖSJÖVARDEN	611803.4N 0142003.7E	492	2520	FLG R	Wind turbine
	12090	MÄSSINGBERGET	611934.9N 0143717.4E	476	2343	FLG R	Wind turbine
	12091	MÄSSINGBERGET	611931.8N 0143632.3E	476	2316	FLG R	Wind turbine
	12092	MÄSSINGBERGET	611920.4N 0143653.9E	476	2395	F R	Wind turbine
	12093	MÄSSINGBERGET	611911.0N 0143716.6E	476	2329	FLG R	Wind turbine
	12094	MÄSSINGBERGET	611853.9N 0143714.9E	476	2320	FLG R	Wind turbine
	12095	MÄSSINGBERGET	611902.6N 0143640.0E	476	2375	FLG R	Wind turbine
	12096	MÄSSINGBERGET	611914.2N 0143605.4E	476	2372	F R	Wind turbine
	12097	MÄSSINGBERGET	611924.2N 0143537.2E	476	2349	FLG R	Wind turbine
	12098	MÄSSINGBERGET	611917.0N 0143507.7E	476	2316	FLG R	Wind turbine
	12099	MÄSSINGBERGET	611901.7N 0143510.8E	476	2314	FLG R	Wind turbine
	12100	MÄSSINGBERGET	611856.5N 0143559.0E	476	2329	FLG R	Wind turbine
	14418	SKAFTÅSEN	614555.9N 0142610.5E	505	2382	F R	Wind turbine
	14419	SKAFTÅSEN	614545.0N 0142557.5E	331	2165	F R	Wind turbine
	14420	SKAFTÅSEN	614351.3N 0143027.1E	381	2449	F R	Wind turbine
	14547	ÄNDBERGET	614337.2N 0140014.9E	591	2595	FLG W	Wind turbine
	14558	ÄNDBERGET	614255.6N 0140040.0E	591	2812	F R	Wind turbine
	14559	ÄNDBERGET	614243.7N 0140103.1E	591	2940	F R	Wind turbine
	14563	ÄNDBERGET	614225.7N 0140111.9E	591	2808	F R	Wind turbine
	14565	ÄNDBERGET	614203.8N 0140027.9E	591	2861	F R	Wind turbine
	14566	ÄNDBERGET	614208.0N 0140105.5E	591	2812	F R	Wind turbine
	14776	SKAFTÅSEN	614733.2N 0142840.2E	591	2307	FLG W	Wind turbine
	14777	SKAFTÅSEN	614715.1N 0142856.2E	591	2300	FLG W	Wind turbine
	14778	SKAFTÅSEN	614657.5N 0142614.1E	591	2494	FLG W	Wind turbine
	14779	SKAFTÅSEN	614653.3N 0142649.9E	591	2532	F R	Wind turbine
	14780	SKAFTÅSEN	614653.0N 0142729.5E	591	2463	F R	Wind turbine
	14781	SKAFTÅSEN	614555.9N 0142610.5E	591	2470	FLG W	Wind turbine
	14782	SKAFTÅSEN	614604.1N 0142647.9E	591	2483	F R	Wind turbine
	14783	SKAFTÅSEN	614543.3N 0142626.7E	591	2611	F R	Wind turbine
	14784	SKAFTÅSEN	614539.4N 0142657.2E	591	2711	F R	Wind turbine
	14785	SKAFTÅSEN	614532.0N 0142745.8E	591	2802	F R	Wind turbine
	14786	SKAFTÅSEN	614548.5N 0142736.0E	591	2705	F R	Wind turbine
	14787	SKAFTÅSEN	614606.4N 0142730.7E	591	2506	F R	Wind turbine
	14788	SKAFTÅSEN	614603.3N 0142819.6E	591	2612	F R	Wind turbine
	14789	SKAFTÅSEN	614601.4N 0142915.7E	591	2578	F R	Wind turbine
	14790	SKAFTÅSEN	614601.0N 0142949.7E	591	2616	FLG W	Wind turbine
	14791	SKAFTÅSEN	614534.1N 0142817.7E	591	2744	F R	Wind turbine
	14792	SKAFTÅSEN	614524.3N 0142912.1E	591	2722	FLG W	Wind turbine
	14793	SKAFTÅSEN	614512.7N 0142812.7E	591	2727	F R	Wind turbine
	14794	SKAFTÅSEN	614503.7N 0142845.0E	591	2627	F R	Wind turbine
	14795	SKAFTÅSEN	614437.1N 0142823.0E	591	2743	F R	Wind turbine
	14796	SKAFTÅSEN	614438.8N 0142854.1E	591	2772	F R	Wind turbine
	14797	SKAFTÅSEN	614419.7N 0142828.6E	591	2677	F R	Wind turbine
	14798	SKAFTÅSEN	614408.3N 0142904.3E	591	2750	F R	Wind turbine
	14799	SKAFTÅSEN	614415.4N 0142737.9E	591	2636	F R	Wind turbine
	14800	SKAFTÅSEN	614408.8N 0142659.3E	591	2583	FLG W	Wind turbine
	14801	SKAFTÅSEN	614350.1N 0142709.4E	591	2614	F R	Wind turbine
	14802	SKAFTÅSEN	614345.4N 0142749.4E	591	2806	F R	Wind turbine
	14803	SKAFTÅSEN	614342.3N 0142823.0E	591	2784	FLG W	Wind turbine
	14804	SKAFTÅSEN	614355.0N 0142936.4E	591	2671	F R	Wind turbine
	14805	SKAFTÅSEN	614351.3N 0143027.1E	591	2659	FLG W	Wind turbine
	14806	SKAFTÅSEN	614306.2N 0142414.8E	591	2541	FLG W	Wind turbine
	14807	SKAFTÅSEN	614310.0N 0142459.0E	591	2588	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
61N 15E	14808	SKAFTÅSEN	614310.0N 0142536.8E	591	2673	F R	Wind turbine
	14809	SKAFTÅSEN	614226.6N 0142448.8E	591	2523	FLG W	Wind turbine
	14810	SKAFTÅSEN	614237.6N 0142533.8E	591	2529	FLG W	Wind turbine
	16189	BÖSJÖVARDEN	611839.5N 0141927.0E	492	2662	FLG R	Wind turbine
	1029	GAMMELMORSBERGET	615119.1N 0151307.2E	341	2096	F R	Mast
	9184	STORBERGET	611108.2N 0152252.8E	410	1967	FLG R	Wind turbine
	9185	STORBERGET	611054.9N 0152253.1E	410	1955	F R	Wind turbine
	9186	STORBERGET	611044.8N 0152311.0E	410	2029	F R	Wind turbine
	9187	STORBERGET	611036.2N 0152341.1E	410	1933	FLG R	Wind turbine
	9188	STORBERGET	611049.6N 0152415.7E	459	1872	F R	Wind turbine
	9189	STORBERGET	611037.1N 0152423.9E	410	1827	FLG R	Wind turbine
	9190	STORBERGET	611020.7N 0152243.4E	410	1969	F R	Wind turbine
	9191	STORBERGET	611010.1N 0152256.7E	410	1920	F R	Wind turbine
	9192	STORBERGET	611004.7N 0152316.7E	410	1963	FLG R	Wind turbine
	10105	STORBERGET	611014.7N 0152321.8E	492	1991	FLG R	Wind turbine
	10106	STORBERGET	611030.7N 0152303.3E	492	2034	F R	Wind turbine
	10107	STORBERGET	611058.2N 0152320.2E	492	1980	FLG R	Wind turbine
	10108	STORBERGET	611104.3N 0152149.4E	492	1927	FLG R	Wind turbine
	10109	STORBERGET	611050.9N 0152213.3E	492	2013	FLG R	Wind turbine
	10110	STORBERGET	611028.2N 0152221.2E	492	1985	FLG R	Wind turbine
	11479	SVARTVALLSBERGET	614335.3N 0155915.8E	456	1696	FLG R	Wind turbine
	11480	SVARTVALLSBERGET	614345.9N 0155932.6E	456	1602	FLG R	Wind turbine
	11481	SVARTVALLSBERGET	614413.2N 0155725.1E	456	1690	FLG R	Wind turbine
	11482	SVARTVALLSBERGET	614415.2N 0155755.4E	456	1683	FLG R	Wind turbine
	11483	SVARTVALLSBERGET	614401.1N 0155741.4E	456	1762	FLG R	Wind turbine
	11484	SVARTVALLSBERGET	614354.1N 0155712.5E	456	1660	F R	Wind turbine
	11485	SVARTVALLSBERGET	614344.9N 0155741.2E	456	1696	F R	Wind turbine
	11486	SVARTVALLSBERGET	614331.2N 0155719.2E	456	1709	F R	Wind turbine
	11487	SVARTVALLSBERGET	614318.8N 0155732.9E	456	1757	F R	Wind turbine
	11488	SVARTVALLSBERGET	614353.0N 0155809.1E	456	1703	F R	Wind turbine
	13102	KORSKROGEN	614404.9N 0153520.1E	673	1942	FLG W	Wind turbine
	13103	KORSKROGEN	614339.8N 0153440.6E	673	2034	FLG W	Wind turbine
	13104	KORSKROGEN	614332.8N 0153519.5E	673	2060	FLG W	Wind turbine
	13105	KORSKROGEN	614318.8N 0153539.6E	673	2162	FLG W	Wind turbine
	13106	KORSKROGEN	614301.6N 0153551.1E	673	2178	FLG W	Wind turbine
	13107	KORSKROGEN	614245.0N 0153613.4E	673	2234	FLG W	Wind turbine
	13108	KORSKROGEN	614334.2N 0153654.0E	673	1923	FLG W	Wind turbine
	13109	KORSKROGEN	614320.3N 0153740.3E	673	1969	FLG W	Wind turbine
	13110	KORSKROGEN	614239.6N 0153710.8E	673	2136	FLG W	Wind turbine
	13111	KORSKROGEN	614254.6N 0153658.8E	673	2093	FLG W	Wind turbine
	13112	KORSKROGEN	614150.9N 0153537.3E	673	2103	FLG W	Wind turbine
	13113	KORSKROGEN	614157.8N 0153503.4E	673	2185	FLG W	Wind turbine
	13114	KORSKROGEN	614214.7N 0153457.2E	673	2188	FLG W	Wind turbine
	13115	KORSKROGEN	614235.1N 0153435.6E	673	2169	FLG W	Wind turbine
	13116	KORSKROGEN	614254.2N 0153456.6E	673	2129	FLG W	Wind turbine
	13117	KORSKROGEN	614240.1N 0153519.6E	673	2126	FLG W	Wind turbine
	13118	KORSKROGEN	614228.8N 0153628.0E	673	2113	FLG W	Wind turbine
	13119	KORSKROGEN	614215.2N 0153656.2E	673	1978	FLG W	Wind turbine
	14154	LOS/KULLAS	614409.7N 0152413.2E	446	2105	F R	Mast
	15870	LOS	615620.3N 0150644.0E	427	2126	F R	Mast
	15871	LOS	615032.6N 0150932.3E	427	1952	F R	Mast
15872	LOS	615042.7N 0150946.3E	427	2005	F R	Mast	
15873	LOS	615609.2N 0150656.1E	427	2123	F R	Mast	
16444	MICKELSBÄNNAN	614116.1N 0152432.4E	335	1856	unknown	Mast	
17344	LOS VERK 1	615042.7N 0150946.3E	722	2359	FLG W	Wind turbine	
17345	LOS VERK 2	615115.8N 0151022.2E	722	2346	F R	Wind turbine	
17346	LOS VERK 3	615137.7N 0151049.4E	722	2453	F R	Wind turbine	
17347	LOS VERK 4	615137.0N 0151135.3E	722	2546	FLG W	Wind turbine	
17348	LOS VERK 5	615158.0N 0151143.2E	722	2395	FLG W	Wind turbine	
17349	LOS VERK 6	615136.1N 0150956.2E	656	2283	F R	Wind turbine	
17350	LOS VERK 7	615201.7N 0150945.2E	722	2415	F R	Wind turbine	
17351	LOS VERK 8	615225.5N 0150957.9E	722	2393	F R	Wind turbine	

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	17352	LOS VERK 9	615242.8N 0150910.8E	722	2379	F R	Wind turbine
	17353	LOS VERK 10	615203.3N 0151049.0E	722	2379	F R	Wind turbine
	17354	LOS VERK 11	615149.3N 0150848.5E	722	2359	F R	Wind turbine
	17355	LOS VERK 12	615211.7N 0150813.9E	722	2490	FLG W	Wind turbine
	17356	LOS VERK 13	615310.6N 0150800.2E	722	2490	FLG W	Wind turbine
	17357	LOS VERK 14	615318.7N 0150841.5E	722	2500	F R	Wind turbine
	17358	LOS VERK 15	615305.1N 0150932.0E	722	2343	FLG W	Wind turbine
	17359	LOS VERK 16	615339.9N 0150727.0E	722	2428	F R	Wind turbine
	17360	LOS VERK 17	615402.9N 0150701.3E	722	2299	FLG W	Wind turbine
	17361	LOS VERK 18	615339.0N 0150807.8E	722	2476	F R	Wind turbine
	17362	LOS VERK 19	615359.6N 0150801.5E	722	2344	F R	Wind turbine
	17363	LOS VERK 20	615415.2N 0150736.6E	722	2274	F R	Wind turbine
	17364	LOS VERK 21	615341.6N 0150850.5E	722	2380	F R	Wind turbine
	17365	LOS VERK 22	615403.8N 0150859.5E	722	2365	F R	Wind turbine
	17366	LOS VERK 23	615423.9N 0150847.6E	722	2359	F R	Wind turbine
	17367	LOS VERK 24	615418.5N 0150959.5E	722	2390	F R	Wind turbine
	17368	LOS VERK 25	615420.0N 0151100.6E	722	2365	FLG W	Wind turbine
	17369	LOS VERK 26	615444.8N 0150956.7E	722	2274	F R	Wind turbine
	17370	LOS VERK 27	615436.1N 0151053.3E	722	2473	F R	Wind turbine
	17371	LOS VERK 28	615513.3N 0150951.1E	722	2317	F R	Wind turbine
	17372	LOS VERK 29	615528.5N 0150912.1E	722	2493	F R	Wind turbine
	17373	LOS VERK 30	615550.3N 0150947.4E	722	2421	F R	Wind turbine
	17374	LOS VERK 31	615539.8N 0151038.6E	722	2406	F R	Wind turbine
	17375	LOS VERK 32	615544.7N 0151129.6E	722	2207	FLG W	Wind turbine
	17376	LOS VERK 33	615548.0N 0150841.4E	722	2311	F R	Wind turbine
	17377	LOS VERK 34	615609.0N 0150837.6E	722	2365	F R	Wind turbine
	17378	LOS VERK 35	615504.5N 0150841.0E	722	2380	F R	Wind turbine
	17379	LOS VERK 36	615444.1N 0150842.0E	722	2268	F R	Wind turbine
	17380	LOS VERK 37	615538.1N 0150802.1E	722	2379	FLG W	Wind turbine
	17381	LOS VERK 38	615549.1N 0150727.3E	722	2444	F R	Wind turbine
	17382	LOS VERK 39	615609.2N 0150656.1E	722	2528	FLG W	Wind turbine
	17383	LOS VERK 40	615601.5N 0150757.5E	722	2484	F R	Wind turbine
	17384	LOS VERK 41	615621.1N 0150753.2E	722	2446	F R	Wind turbine
	17385	LOS VERK 42	615637.1N 0150840.9E	722	2313	FLG W	Wind turbine
61N 16E	419	HUDIKSVALL	614224.8N 0165121.7E	1099	2154	FLG W	Mast
	422	BOLLNÄS/ARBRA	612900.5N 0161245.8E	1096	2482	FLG W	Mast
	10115	FLÄSTA	612756.6N 0162827.9E	492	1608	FLG R	Wind turbine
	10116	FLÄSTA	612747.1N 0162849.7E	492	1585	FLG R	Wind turbine
	10117	FLÄSTA	612747.7N 0162922.6E	492	1631	FLG R	Wind turbine
	10416	VACKERDALSBEGET	610357.9N 0163414.6E	476	1575	FLG R	Wind turbine
	10417	VACKERDALSBERGET	610352.9N 0163501.9E	476	1549	FLG R	Wind turbine
	10418	VACKERDALSBEGET	610404.2N 0163443.5E	476	1568	FLG R	Wind turbine
	11051	FALLÄSBERGET	610225.3N 0163624.3E	492	1457	FLG R	Wind turbine
	11052	FALLÄSBERGET	610231.5N 0163558.9E	492	1447	FLG R	Wind turbine
	11053	FALLÄSBERGET	610235.7N 0163520.9E	492	1329	FLG R	Wind turbine
	11054	FALLÄSBERGET	610246.7N 0163546.3E	492	1437	FLG R	Wind turbine
	11055	FALLÄSBERGET	610259.9N 0163547.7E	492	1309	FLG R	Wind turbine
	11056	FALLÄSBERGET	610252.1N 0163515.4E	492	1407	F R	Wind turbine
	11057	FALLÄSBERGET	610239.7N 0163453.8E	492	1355	FLG R	Wind turbine
	11058	FALLÄSBERGET	610303.6N 0163453.0E	492	1430	FLG R	Wind turbine
	11059	FALLÄSBERGET	610250.8N 0163433.3E	492	1381	FLG R	Wind turbine
	11060	FALLÄSBERGET	610302.2N 0163420.7E	492	1365	FLG R	Wind turbine
	13245	SÖDERVALLSÄSEN	613650.5N 0160315.8E	492	1919	FLG R	Wind turbine
	13246	SÖDERVALLSÄSEN	613638.2N 0160306.3E	492	1926	FLG R	Wind turbine
	13247	SÖDERVALLSÄSEN	613640.7N 0160408.6E	492	1939	FLG R	Wind turbine
	13248	SÖDERVALLSÄSEN	613614.9N 0160408.4E	492	2008	FLG R	Wind turbine
	13249	SÖDERVALLSÄSEN	613643.2N 0160446.7E	492	1959	FLG R	Wind turbine
	13250	SÖDERVALLSÄSEN	613605.8N 0160427.3E	492	1985	FLG R	Wind turbine
	13251	SÖDERVALLSÄSEN	613623.7N 0160445.3E	492	1919	FLG R	Wind turbine
	13252	SÖDERVALLSÄSEN	613611.6N 0160450.7E	492	1919	FLG R	Wind turbine
	13253	SÖDERVALLSÄSEN	613619.9N 0160509.5E	492	1942	FLG R	Wind turbine
	13254	SÖDERVALLSÄSEN	613614.7N 0160538.0E	492	1857	FLG R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13255	SÖDERVALLSÅSEN	613603.2N 0160608.4E	492	1818	FLG R	Wind turbine
	13256	SÖDERVALLSÅSEN	613528.3N 0160421.6E	492	2001	FLG R	Wind turbine
	13257	SÖDERVALLSÅSEN	613548.8N 0160604.8E	492	1886	FLG R	Wind turbine
	13258	SÖDERVALLSÅSEN	613521.1N 0160500.8E	492	1969	FLG R	Wind turbine
	13259	SÖDERVALLSÅSEN	613550.6N 0160645.5E	492	1821	FLG R	Wind turbine
	13260	SÖDERVALLSÅSEN	613604.1N 0160726.4E	492	1808	FLG R	Wind turbine
	13262	SÖDERVALLSÅSEN	613521.7N 0160606.0E	492	1903	FLG R	Wind turbine
	13263	SÖDERVALLSÅSEN	613534.5N 0160640.0E	492	1831	FLG R	Wind turbine
	13264	SÖDERVALLSÅSEN	613532.5N 0160723.3E	492	1893	FLG R	Wind turbine
	13265	SÖDERVALLSÅSEN	613547.9N 0160753.4E	492	1768	FLG R	Wind turbine
	13266	SÖDERVALLSÅSEN	613455.3N 0160524.7E	492	1837	FLG R	Wind turbine
	13267	SÖDERVALLSÅSEN	613506.1N 0160612.6E	492	1890	FLG R	Wind turbine
	13268	SÖDERVALLSÅSEN	613516.4N 0160650.6E	492	1795	FLG R	Wind turbine
	13269	SÖDERVALLSÅSEN	613518.1N 0160814.7E	492	1798	FLG R	Wind turbine
	13270	SÖDERVALLSÅSEN	613509.5N 0160953.6E	492	1709	FLG R	Wind turbine
	13271	SÖDERVALLSÅSEN	613504.2N 0161016.5E	492	1722	FLG R	Wind turbine
	13272	SÖDERVALLSÅSEN	613451.3N 0161016.4E	492	1745	FLG R	Wind turbine
	13273	SÖDERVALLSÅSEN	613435.2N 0160516.7E	492	2054	FLG R	Wind turbine
	13274	SÖDERVALLSÅSEN	613432.0N 0160443.9E	492	1985	FLG R	Wind turbine
	13275	SÖDERVALLSÅSEN	613424.9N 0160501.7E	492	2077	FLG R	Wind turbine
	13276	SÖDERVALLSÅSEN	613418.4N 0160527.4E	492	2011	FLG R	Wind turbine
	13277	SÖDERVALLSÅSEN	613433.2N 0160602.8E	492	1909	FLG R	Wind turbine
	13278	SÖDERVALLSÅSEN	613409.2N 0160658.1E	492	1909	FLG R	Wind turbine
	13279	SÖDERVALLSÅSEN	613403.9N 0160719.7E	492	1837	FLG R	Wind turbine
	13280	SÖDERVALLSÅSEN	613340.7N 0160727.6E	492	1804	FLG R	Wind turbine
	13281	SÖDERVALLSÅSEN	613334.1N 0160804.1E	492	1824	FLG R	Wind turbine
	13747	TÖNSEN	610834.3N 0162732.7E	591	1716	FLG W	Wind turbine
	13748	TÖNSEN	610823.8N 0162806.7E	591	1650	F R	Wind turbine
	13749	TÖNSEN	610819.8N 0162842.3E	591	1640	F R	Wind turbine
	13750	TÖNSEN	610853.4N 0162837.7E	591	1677	FLG W	Wind turbine
	13751	TÖNSEN	610833.8N 0162912.2E	591	1657	F R	Wind turbine
	13752	TÖNSEN	610804.9N 0162913.5E	591	1667	F R	Wind turbine
	13753	TÖNSEN	610828.7N 0163002.8E	591	1663	FLG W	Wind turbine
	13754	TÖNSEN	610809.2N 0163011.0E	591	1693	FLG W	Wind turbine
	13755	TÖNSEN	610725.9N 0162722.4E	591	1673	FLG W	Wind turbine
	13756	TÖNSEN	610712.7N 0162750.4E	591	1640	F R	Wind turbine
	13757	TÖNSEN	610659.6N 0162826.2E	591	1726	F R	Wind turbine
	13758	TÖNSEN	610647.8N 0162852.4E	591	1690	F R	Wind turbine
	13759	TÖNSEN	610709.3N 0162917.2E	591	1709	F R	Wind turbine
	13760	TÖNSEN	610649.2N 0162935.8E	591	1713	F R	Wind turbine
	13761	TÖNSEN	610636.0N 0163014.0E	591	1654	F R	Wind turbine
	13762	TÖNSEN	610655.1N 0163020.1E	591	1631	F R	Wind turbine
	13763	TÖNSEN	610646.9N 0163056.3E	591	1631	F R	Wind turbine
	13764	TÖNSEN	610629.1N 0163104.5E	591	1696	F R	Wind turbine
	13765	TÖNSEN	610627.1N 0163141.8E	591	1752	FLG W	Wind turbine
	13766	TÖNSEN	610628.8N 0162909.4E	591	1631	FLG W	Wind turbine
	13767	TÖNSEN	610605.0N 0163043.8E	591	1594	F R	Wind turbine
	13768	TÖNSEN	610559.1N 0163121.7E	591	1581	F R	Wind turbine
	13769	TÖNSEN	610542.2N 0163205.0E	591	1650	FLG W	Wind turbine
	13770	TÖNSEN	610610.8N 0163231.3E	591	1716	F R	Wind turbine
	13771	TÖNSEN	610554.7N 0163254.6E	591	1709	F R	Wind turbine
	13772	TÖNSEN	610614.9N 0163316.2E	591	1631	FLG W	Wind turbine
	13773	TÖNSEN	610600.5N 0163436.6E	591	1722	FLG W	Wind turbine
	13774	ÅMOT	610514.8N 0162333.8E	591	1696	FLG W	Wind turbine
	13775	ÅMOT	610511.8N 0162414.5E	591	1778	F R	Wind turbine
	13776	ÅMOT	610459.8N 0162452.0E	591	1706	F R	Wind turbine
	13777	ÅMOT	610454.3N 0162533.1E	591	1637	FLG W	Wind turbine
	13778	ÅMOT	610447.2N 0162729.8E	591	1634	FLG W	Wind turbine
	13779	ÅMOT	610429.3N 0162751.8E	591	1624	F R	Wind turbine
	13780	ÅMOT	610439.5N 0162650.0E	591	1614	F R	Wind turbine
	13781	ÅMOT	610400.1N 0162756.7E	591	1558	F R	Wind turbine
	13782	ÅMOT	610443.8N 0162929.2E	591	1608	FLG W	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13783	ÅMOT	610422.9N 0162930.5E	591	1709	F R	Wind turbine
	13784	ÅMOT	610434.5N 0162849.8E	591	1663	F R	Wind turbine
	13785	ÅMOT	610450.4N 0162821.9E	591	1627	F R	Wind turbine
	13786	ÅMOT	610409.4N 0162840.8E	591	1604	F R	Wind turbine
	13787	ÅMOT	610453.6N 0162409.5E	591	1716	F R	Wind turbine
	13788	ÅMOT	610423.6N 0162430.4E	591	1657	FLG W	Wind turbine
	13789	ÅMOT	610414.9N 0162537.8E	591	1640	F R	Wind turbine
	13790	ÅMOT	610410.3N 0162621.5E	591	1617	F R	Wind turbine
	13791	ÅMOT	610347.4N 0162447.6E	591	1627	FLG W	Wind turbine
	13792	ÅMOT	610333.5N 0162529.6E	591	1555	F R	Wind turbine
	13793	ÅMOT	610254.8N 0162518.2E	591	1722	FLG W	Wind turbine
	13794	ÅMOT	610230.6N 0162549.8E	591	1690	F R	Wind turbine
	13795	ÅMOT	610217.6N 0162512.5E	591	1624	F R	Wind turbine
	13796	ÅMOT	610151.5N 0162517.7E	591	1617	FLG W	Wind turbine
	13797	ÅMOT	610141.5N 0162658.1E	591	1627	FLG W	Wind turbine
	13798	ÅMOT	610148.3N 0162617.2E	591	1696	F R	Wind turbine
	13799	ÅMOT	610218.6N 0162625.6E	591	1719	F R	Wind turbine
	13800	ÅMOT	610207.1N 0162549.3E	591	1696	F R	Wind turbine
	13801	ÅMOT	610244.0N 0162629.3E	591	1637	F R	Wind turbine
	13802	ÅMOT	610230.9N 0162800.4E	591	1621	F R	Wind turbine
	13803	ÅMOT	610212.5N 0162815.8E	591	1634	F R	Wind turbine
	13804	ÅMOT	610230.1N 0162852.4E	591	1598	F R	Wind turbine
	13805	ÅMOT	610203.1N 0162855.2E	591	1535	FLG W	Wind turbine
	13806	ÅMOT	610240.1N 0162932.7E	591	1591	F R	Wind turbine
	13807	ÅMOT	610211.8N 0162935.8E	591	1558	F R	Wind turbine
	13808	ÅMOT	610230.8N 0163010.6E	591	1562	F R	Wind turbine
	13809	ÅMOT	610210.1N 0163023.7E	591	1545	F R	Wind turbine
	13810	ÅMOT	610153.0N 0163042.3E	591	1522	F R	Wind turbine
	13811	ÅMOT	610159.6N 0163120.4E	591	1522	F R	Wind turbine
	13812	ÅMOT	610149.7N 0163224.8E	591	1535	F R	Wind turbine
	13813	ÅMOT	610135.1N 0163115.9E	591	1516	FLG W	Wind turbine
	13814	ÅMOT	610305.0N 0163040.0E	591	1539	FLG W	Wind turbine
	13815	ÅMOT	610243.7N 0163111.3E	591	1519	F R	Wind turbine
	13816	ÅMOT	610234.9N 0163152.1E	591	1490	F R	Wind turbine
	13817	ÅMOT	610225.5N 0163241.4E	591	1631	FLG W	Wind turbine
	13818	ÅMOT	610111.4N 0163154.9E	591	1516	F R	Wind turbine
	13819	ÅMOT	610054.7N 0163225.3E	591	1447	FLG W	Wind turbine
	13820	ÅMOT	610134.0N 0163246.6E	591	1562	F R	Wind turbine
	13821	ÅMOT	610115.3N 0163236.7E	591	1562	F R	Wind turbine
	13822	ÅMOT	610118.3N 0163340.5E	591	1437	FLG W	Wind turbine
	13823	ÅMOT	610058.4N 0163336.0E	591	1414	F R	Wind turbine
	13824	ÅMOT	610039.9N 0163547.9E	591	1545	FLG W	Wind turbine
	13825	ÅMOT	610047.0N 0163652.2E	591	1499	F R	Wind turbine
	13826	ÅMOT	610030.6N 0163720.7E	591	1381	F R	Wind turbine
	13827	ÅMOT	610028.3N 0163634.6E	591	1407	F R	Wind turbine
	13828	ÅMOT	610013.1N 0163704.6E	591	1362	FLG W	Wind turbine
	13829	ÅMOT	610105.5N 0163718.1E	591	1385	FLG W	Wind turbine
	13830	ÅMOT	610047.6N 0163738.3E	591	1427	F R	Wind turbine
	13831	ÅMOT	610025.7N 0163800.9E	591	1273	FLG W	Wind turbine
	16443	SÖDERVALLEN	613505.9N 0160509.1E	492	1867	unknown	Wind turbine
61N 17E	428	IGGESUND/BRUKET	613821.8N 0170549.2E	400	407	F R	Chimney
	1025	SÖDERHAMN/MALA	611935.8N 0170612.1E	456	582	FLG W	Mast
	9142	STORSAND	614558.4N 0171846.6E	410	604	FLG R	Wind turbine
	9143	STORSAND	614600.6N 0171914.6E	410	636	FLG R	Wind turbine
	9144	STORSAND	614604.3N 0171940.5E	410	656	FLG R	Wind turbine
	9145	STORSAND	614607.0N 0172000.1E	410	646	FLG R	Wind turbine
	9146	STORSAND	614609.0N 0172025.0E	410	607	FLG R	Wind turbine
	10767	STRANDFÄBODARNA	610429.2N 0170200.8E	492	722	F R	Mast
	11117	ILSBO	614934.0N 0170521.9E	394	844	F R	Mast
62N 12E	429	FUNÄSDALEN/FUNÄSDALSBERGET	622317.1N 0123221.6E	348	3424	F R	Mast
	11661	TROLLKÄRINGVALLEN	622310.6N 0125205.3E (*)	410	3163	FLG W	Wind turbine
	11662	TROLLKÄRINGVALLEN	622258.2N 0125203.5E (*)	410	3140	FLG W	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
62N 13E	11663	TROLLKÄRINGVALLEN	622241.5N 0125236.5E (*)	410	3117	FLG W	Wind turbine
	11664	TROLLKÄRINGVALLEN	622249.7N 0125259.1E (*)	410	3150	FLG W	Wind turbine
	11665	TROLLKÄRINGVALLEN	622305.1N 0125256.0E (*)	410	3071	FLG W	Wind turbine
	16188	BJÖRNSKALLEN	624848.2N 0124748.3E	341	3071	unknown	Wind turbine
	1284	LÄNGÅKNÄTTEN	622601.9N 0131344.2E	338	2754	F R	Mast
	7609	LÄNGÅVALEN	622759.7N 0131711.8E (*)	397	3156	F R	Wind turbine
	7610	LÄNGÅVALEN	622810.8N 0131641.8E (*)	397	3182	F R	Wind turbine
	7611	LÄNGÅVALEN	622759.6N 0131646.2E (*)	397	3153	F R	Wind turbine
	7612	LÄNGÅVALEN	622818.6N 0131656.3E (*)	397	3189	F R	Wind turbine
	7613	LÄNGÅVALEN	622827.7N 0131647.4E (*)	397	3114	F R	Wind turbine
	9526	LÄNGÅVALEN	622749.5N 0131655.6E (*)	456	3199	F R	Wind turbine
	9527	LÄNGÅVALEN	622746.0N 0131719.1E (*)	456	3202	F R	Wind turbine
	11826	GLÖTESVÄLEN	620842.0N 0133242.8E	410	3543	FLG R	Wind turbine
	11827	GLÖTESVÄLEN	620852.8N 0133255.0E	410	3586	FLG R	Wind turbine
	11828	GLÖTESVÄLEN	620901.4N 0133310.7E	410	3560	FLG R	Wind turbine
	11829	GLÖTESVÄLEN	620911.0N 0133324.3E	410	3615	FLG R	Wind turbine
	11830	GLÖTESVÄLEN	620919.1N 0133341.4E	410	3602	FLG R	Wind turbine
	11831	GLÖTESVÄLEN	620925.7N 0133401.1E	410	3573	FLG R	Wind turbine
	11832	GLÖTESVÄLEN	620838.5N 0133308.6E	410	3560	FLG R	Wind turbine
	11833	GLÖTESVÄLEN	620847.8N 0133322.7E	410	3596	F R	Wind turbine
	11834	GLÖTESVÄLEN	620902.1N 0133347.9E	410	3625	F R	Wind turbine
	11835	GLÖTESVÄLEN	620913.6N 0133408.4E	410	3619	FLG R	Wind turbine
	11836	GLÖTESVÄLEN	620835.0N 0133338.0E	410	3632	FLG R	Wind turbine
	11837	GLÖTESVÄLEN	620849.1N 0133346.3E	410	3652	F R	Wind turbine
	11838	GLÖTESVÄLEN	620859.1N 0133414.2E	410	3632	F R	Wind turbine
	11839	GLÖTESVÄLEN	620906.2N 0133433.7E	410	3599	FLG R	Wind turbine
	11840	GLÖTESVÄLEN	620834.3N 0133403.8E	410	3711	F R	Wind turbine
	11841	GLÖTESVÄLEN	620845.6N 0133412.5E	410	3645	F R	Wind turbine
	11842	GLÖTESVÄLEN	620852.2N 0133440.9E	410	3589	F R	Wind turbine
	11843	GLÖTESVÄLEN	620857.4N 0133508.6E	410	3599	FLG R	Wind turbine
	11844	GLÖTESVÄLEN	620820.7N 0133412.7E	410	3704	FLG R	Wind turbine
	11845	GLÖTESVÄLEN	620828.6N 0133430.1E	410	3655	F R	Wind turbine
	11846	GLÖTESVÄLEN	620843.3N 0133504.9E	410	3553	F R	Wind turbine
11847	GLÖTESVÄLEN	620845.8N 0133527.7E	410	3530	FLG R	Wind turbine	
11848	GLÖTESVÄLEN	620812.8N 0133436.9E	410	3648	FLG R	Wind turbine	
11849	GLÖTESVÄLEN	620826.5N 0133455.7E	410	3593	F R	Wind turbine	
11850	GLÖTESVÄLEN	620832.2N 0133523.3E	410	3527	FLG R	Wind turbine	
11851	GLÖTESVÄLEN	620812.1N 0133502.0E	410	3671	F R	Wind turbine	
11852	GLÖTESVÄLEN	620817.9N 0133524.2E	410	3606	FLG R	Wind turbine	
11853	GLÖTESVÄLEN	620757.8N 0133508.2E	410	3691	FLG R	Wind turbine	
11854	GLÖTESVÄLEN	620803.2N 0133528.0E	410	3668	FLG R	Wind turbine	
11855	GLÖTESVÄLEN	620800.7N 0133554.1E	410	3560	FLG R	Wind turbine	
62N 14E	9593	RODOVÄLEN	622056.4N 0140618.5E	456	3081	F R	Wind turbine
	9594	RODOVÄLEN	622101.1N 0140640.2E	456	3079	F R	Wind turbine
	9595	RODOVÄLEN	622045.8N 0140705.7E	456	3041	F R	Wind turbine
	9927	SVEDJE/KOMMERBERGET	625518.7N 0141609.3E	456	2314	FLG R	Wind turbine
	10753	SKÅLAN	623717.5N 0141004.0E	492	2703	FLG R	Wind turbine
	10754	SKÅLAN	623715.8N 0140918.8E	492	2503	FLG R	Wind turbine
	10755	SKÅLAN	623705.5N 0140945.7E	492	2480	FLG R	Wind turbine
	11349	RÅTAN	622716.6N 0143950.3E	587	2254	FLG W	Wind turbine
	11350	RÅTAN	622738.2N 0144001.6E	587	2267	FLG W	Wind turbine
	11351	RÅTAN	622721.6N 0144058.8E	587	2398	FLG W	Wind turbine
	11352	RÅTAN	622705.4N 0144159.7E	587	2484	FLG W	Wind turbine
	11353	RÅTAN	622726.0N 0144224.0E	587	2431	FLG W	Wind turbine
	11354	RÅTAN	622658.9N 0144238.1E	587	2520	FLG W	Wind turbine
	11355	RÅTAN	622711.7N 0144316.3E	587	2418	FLG W	Wind turbine
	11356	RÅTAN	622706.2N 0144406.4E	587	2451	FLG W	Wind turbine
	11357	RÅTAN	622722.6N 0144416.9E	587	2451	FLG W	Wind turbine
	11358	RÅTAN	622744.4N 0144402.9E	587	2323	FLG W	Wind turbine
11359	RÅTAN	622754.0N 0144315.1E	587	2234	FLG W	Wind turbine	
11360	RÅTAN	622554.9N 0144510.6E	587	2346	FLG W	Wind turbine	
11361	RÅTAN	622536.6N 0144509.8E	587	2402	FLG W	Wind turbine	

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	11362	RÅTAN	622543.4N 0144425.4E	587	2425	FLG W	Wind turbine
	11363	RÅTAN	622603.6N 0144401.6E	587	2349	FLG W	Wind turbine
	11364	RÅTAN	622553.6N 0144248.6E	587	2372	FLG W	Wind turbine
	11365	RÅTAN	622532.4N 0144304.5E	587	2372	FLG W	Wind turbine
	11366	RÅTAN	622539.5N 0144216.0E	587	2408	FLG W	Wind turbine
	11367	RÅTAN	622535.0N 0144057.4E	587	2385	FLG W	Wind turbine
	11368	RÅTAN	622549.5N 0144027.9E	587	2421	FLG W	Wind turbine
	11369	RÅTAN	622533.0N 0144011.1E	587	2421	FLG W	Wind turbine
	11370	RÅTAN	622511.6N 0144016.4E	587	2425	FLG W	Wind turbine
	11371	RÅTAN	622604.6N 0143958.4E	587	2343	FLG W	Wind turbine
	11372	RÅTAN	622548.1N 0143925.5E	587	2418	FLG W	Wind turbine
	11373	RÅTAN	622525.3N 0143905.6E	587	2316	FLG W	Wind turbine
	11374	RÅTAN	622609.1N 0143825.5E	587	2290	FLG W	Wind turbine
	11656	RÅTANS-DIGERBERGET	623050.5N 0143808.5E	476	2131	FLG R	Wind turbine
	11658	RÅTANS-DIGERBERGET	623033.6N 0143849.1E	476	2116	FLG W	Wind turbine
	11659	RÅTANS-DIGERBERGET	623019.2N 0143818.8E	459	2110	FLG W	Wind turbine
	11660	RÅTANS-DIGERBERGET	623032.7N 0143936.0E	476	2054	FLG W	Wind turbine
	13623	RÅTAN	623434.0N 0145522.6E	722	2395	FLG W	Wind turbine
	13624	RÅTAN	623411.4N 0145517.0E	722	2421	F R	Wind turbine
	13625	RÅTAN	623417.4N 0145600.6E	722	2421	F R	Wind turbine
	13626	RÅTAN	623401.8N 0145615.2E	722	2425	FLG W	Wind turbine
	13627	RÅTAN	623356.5N 0145532.0E	722	2503	F R	Wind turbine
	13631	RÅTAN	623342.0N 0145511.1E	722	2434	FLG W	Wind turbine
	13632	RÅTAN	623326.1N 0145528.9E	722	2457	F R	Wind turbine
	13633	RÅTAN	623333.8N 0145604.3E	722	2510	F R	Wind turbine
	13634	RÅTAN	623326.6N 0145641.2E	722	2507	F R	Wind turbine
	13635	RÅTAN	623310.0N 0145656.8E	722	2441	FLG W	Wind turbine
	13728	RÅTAN	623308.4N 0145550.2E	722	2461	F R	Wind turbine
	13729	RÅTAN	623253.7N 0145531.6E	722	2405	FLG W	Wind turbine
	13730	RÅTAN	623252.8N 0145619.1E	722	2438	F R	Wind turbine
	13731	RÅTAN	623252.9N 0145659.2E	722	2408	F R	Wind turbine
	13732	RÅTAN	623222.9N 0145611.7E	722	2405	F R	Wind turbine
	13733	RÅTAN	623223.7N 0145700.0E	722	2438	F R	Wind turbine
	13734	RÅTAN	623146.9N 0145724.2E	722	2382	FLG W	Wind turbine
	13735	RÅTAN	623154.6N 0145639.7E	722	2359	F R	Wind turbine
	13736	RÅTAN	623139.3N 0145650.7E	722	2372	FLG W	Wind turbine
	13737	RÅTAN	623115.6N 0145721.6E	722	2349	FLG W	Wind turbine
	13974	ALBY	623034.2N 0145957.7E	722	2270	FLG W	Wind turbine
	16191	RÅTANSBYN	623037.7N 0143751.8E	456	2135	FLG R	Wind turbine
62N 15E	438	ÅNGE	623010.7N 0152240.2E	1086	2674	F R/FLG W	Mast
	11396	MÖRTTJÄRNBERGET	624215.4N 0155456.3E	564	2192	FLG W	Wind turbine
	11397	MÖRTTJÄRNBERGET	624232.6N 0155511.0E	564	2195	F R	Wind turbine
	11398	MÖRTTJÄRNBERGET	624237.1N 0155544.9E	564	2211	F R	Wind turbine
	11399	MÖRTTJÄRNBERGET	624241.0N 0155619.9E	564	2175	F R	Wind turbine
	11400	MÖRTTJÄRNBERGET	624302.2N 0155642.7E	564	2185	F R	Wind turbine
	11401	MÖRTTJÄRNBERGET	624247.8N 0155658.7E	564	2195	FLG W	Wind turbine
	11402	MÖRTTJÄRNBERGET	624252.4N 0155739.2E	564	2142	F R	Wind turbine
	11403	MÖRTTJÄRNBERGET	624302.6N 0155814.9E	564	2159	F R	Wind turbine
	11404	MÖRTTJÄRNBERGET	624308.8N 0155846.8E	564	2228	FLG W	Wind turbine
	11405	MÖRTTJÄRNBERGET	624255.3N 0155539.3E	564	2142	F R	Wind turbine
	11406	MÖRTTJÄRNBERGET	624312.1N 0155612.0E	564	2172	F R	Wind turbine
	11407	MÖRTTJÄRNBERGET	624317.9N 0155650.5E	564	2172	F R	Wind turbine
	11408	MÖRTTJÄRNBERGET	624315.2N 0155739.2E	564	2162	F R	Wind turbine
	11409	MÖRTTJÄRNBERGET	624322.2N 0155817.4E	564	2172	F R	Wind turbine
	11410	MÖRTTJÄRNBERGET	624325.7N 0155852.4E	564	2228	F R	Wind turbine
	11411	MÖRTTJÄRNBERGET	624301.4N 0155434.6E	564	2136	F R	Wind turbine
	11412	MÖRTTJÄRNBERGET	624312.2N 0155501.2E	564	2152	F R	Wind turbine
	11413	MÖRTTJÄRNBERGET	624320.2N 0155530.9E	564	2149	F R	Wind turbine
	11414	MÖRTTJÄRNBERGET	624329.8N 0155603.7E	564	2096	F R	Wind turbine
	11415	MÖRTTJÄRNBERGET	624334.1N 0155646.1E	564	2159	F R	Wind turbine
	11416	MÖRTTJÄRNBERGET	624330.8N 0155721.2E	564	2142	F R	Wind turbine
	11417	MÖRTTJÄRNBERGET	624341.0N 0155749.0E	564	2224	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	11418	MÖRTTJÄRNBERGET	624337.9N 0155821.8E	564	2251	F R	Wind turbine
	11419	MÖRTTJÄRNBERGET	624338.8N 0155913.4E	564	2208	FLG W	Wind turbine
	11420	MÖRTTJÄRNBERGET	624307.6N 0155401.0E	564	2116	FLG W	Wind turbine
	11421	MÖRTTJÄRNBERGET	624327.6N 0155445.5E	564	2116	F R	Wind turbine
	11422	MÖRTTJÄRNBERGET	624341.3N 0155510.7E	564	2126	F R	Wind turbine
	11423	MÖRTTJÄRNBERGET	624347.9N 0155541.9E	564	2129	F R	Wind turbine
	11424	MÖRTTJÄRNBERGET	624349.7N 0155618.9E	564	2123	F R	Wind turbine
	11425	MÖRTTJÄRNBERGET	624358.1N 0155739.9E	564	2234	F R	Wind turbine
	11426	MÖRTTJÄRNBERGET	624357.2N 0155814.4E	564	2241	FLG W	Wind turbine
	11427	MÖRTTJÄRNBERGET	624349.4N 0155847.1E	564	2264	F R	Wind turbine
	11428	MÖRTTJÄRNBERGET	624328.3N 0155405.7E	564	2087	F R	Wind turbine
	11429	MÖRTTJÄRNBERGET	624342.2N 0155427.2E	564	2090	FLG W	Wind turbine
	11430	MÖRTTJÄRNBERGET	624354.9N 0155441.8E	564	2064	F R	Wind turbine
	11431	MÖRTTJÄRNBERGET	624359.9N 0155516.1E	564	2083	F R	Wind turbine
	11432	MÖRTTJÄRNBERGET	624406.9N 0155557.9E	564	2077	FLG W	Wind turbine
	12197	STORFLÖTTEN	623030.3N 0150205.8E	397	2004	F R	Mast
	12832	VÄSBERGET	620734.1N 0153152.0E	568	2307	FLG W	Wind turbine
	12833	VÄSBERGET	620756.0N 0153225.2E	568	2350	FLG W	Wind turbine
	12834	VÄSBERGET	620744.1N 0153213.1E	568	2362	FLG W	Wind turbine
	12835	VÄSBERGET	620804.3N 0153155.7E	568	2404	FLG W	Wind turbine
	12836	VÄSBERGET	620813.7N 0153134.1E	568	2376	FLG W	Wind turbine
	12837	VÄSBERGET	620725.4N 0153132.7E	568	2238	FLG W	Wind turbine
	12838	VÄSBERGET	620719.8N 0153207.7E	568	2263	FLG W	Wind turbine
	12839	VÄSBERGET	620708.5N 0153147.4E	568	2288	FLG W	Wind turbine
	13361	RIBERGET	621821.6N 0153012.4E	427	1959	F R	Mast
	13362	BRÄCKE/FASIKAN	623802.6N 0153436.9E	502	2178	F R	Mast
	13912	BRÄCKE	624425.9N 0153208.2E	591	2241	F R	Wind turbine
	13913	BRÄCKE	624447.5N 0153143.1E	591	2218	FLG W	Wind turbine
	13914	BRÄCKE	624409.9N 0153234.3E	591	2310	FLG W	Wind turbine
	13915	BRÄCKE	624418.6N 0153316.1E	591	2333	FLG W	Wind turbine
	13916	BRÄCKE	624401.8N 0153432.1E	591	2234	FLG W	Wind turbine
	13917	BRÄCKE	624727.8N 0153108.3E	591	2270	FLG W	Wind turbine
	13918	BRÄCKE	624708.7N 0153100.1E	591	2264	F R	Wind turbine
	13919	BRÄCKE	624656.4N 0153216.8E	591	2300	FLG W	Wind turbine
	13920	BRÄCKE	624659.7N 0153141.4E	591	2329	F R	Wind turbine
	13921	BRÄCKE	624644.7N 0153119.1E	591	2293	FLG W	Wind turbine
	13922	BRÄCKE	624628.0N 0153223.2E	591	2349	FLG W	Wind turbine
	13966	ALBY	623057.9N 0150417.1E	722	2306	FLG W	Wind turbine
	13967	ALBY	623047.0N 0150341.6E	722	2365	F R	Wind turbine
	13968	ALBY	623052.2N 0150242.8E	722	2349	F R	Wind turbine
	13969	ALBY	623106.8N 0150218.6E	722	2375	FLG W	Wind turbine
	13970	ALBY	623115.2N 0150146.5E	722	2382	F R	Wind turbine
	13971	ALBY	623116.3N 0150101.3E	722	2369	FLG W	Wind turbine
	13972	ALBY	623058.1N 0150123.4E	722	2343	F R	Wind turbine
	13973	ALBY	623057.1N 0150031.8E	722	2365	F R	Wind turbine
	13975	ALBY	623041.0N 0150059.1E	722	2375	F R	Wind turbine
	13976	ALBY	623028.6N 0150138.1E	722	2382	F R	Wind turbine
	13977	ALBY	623017.5N 0150044.9E	722	2382	F R	Wind turbine
	13978	ALBY	623000.3N 0150101.4E	722	2326	F R	Wind turbine
	13979	ALBY	622945.4N 0150127.5E	722	2372	F R	Wind turbine
	13980	ALBY	622932.4N 0150154.6E	722	2402	F R	Wind turbine
	13981	ALBY	622919.2N 0150222.8E	722	2434	F R	Wind turbine
	13982	ALBY	622851.7N 0150213.3E	722	2434	FLG W	Wind turbine
	13983	ALBY	622905.5N 0150111.3E	722	2274	FLG W	Wind turbine
	13984	ALBY	622909.9N 0150035.4E	722	2264	FLG W	Wind turbine
	13985	ALBY	622955.8N 0150209.1E	722	2431	F R	Wind turbine
	13986	ALBY	623019.8N 0150219.5E	722	2418	F R	Wind turbine
	13987	ALBY	622956.2N 0150327.7E	722	2467	F R	Wind turbine
	13988	ALBY	623001.9N 0150250.1E	722	2520	F R	Wind turbine
	13989	ALBY	622950.6N 0150505.3E	722	2408	F R	Wind turbine
	13990	ALBY	622953.3N 0150543.0E	722	2365	FLG W	Wind turbine
	13991	ALBY	622936.2N 0150607.1E	722	2323	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13992	ALBY	622929.0N 0150652.9E	722	2290	FLG W	Wind turbine
	13993	ALBY	622905.3N 0150649.8E	722	2293	F R	Wind turbine
	13994	ALBY	622842.4N 0150727.3E	722	2375	FLG W	Wind turbine
	13995	ALBY	622906.0N 0150729.0E	722	2208	FLG W	Wind turbine
	13996	ALBY	622838.7N 0150641.3E	722	2247	FLG W	Wind turbine
	13997	ALBY	622919.6N 0150411.5E	722	2477	F R	Wind turbine
	13998	ALBY	622917.6N 0150447.8E	722	2477	F R	Wind turbine
	13999	ALBY	622903.7N 0150519.3E	722	2448	FLG W	Wind turbine
	14000	ALBY	622922.8N 0150539.6E	722	2395	F R	Wind turbine
	14001	ALBY	622905.0N 0150558.2E	722	2339	F R	Wind turbine
	14330	MÖRTTJÄRNBERGET	624407.7N 0155506.2E	371	1854	F R	Mast
	14423	RAMSJÖ	621750.2N 0153726.4E	459	1864	F R	Mast
	15419	ÄNGE	622527.2N 0154550.0E	722	2365	FLG W	Wind turbine
	15420	ÄNGE	622508.3N 0154627.2E	722	2346	F R	Wind turbine
	15421	ÄNGE	622453.6N 0154504.7E	722	2303	FLG W	Wind turbine
	15422	ÄNGE	622428.3N 0154510.8E	722	2329	FLG W	Wind turbine
	15423	ÄNGE	622431.5N 0154423.6E	722	2244	F R	Wind turbine
	15424	ÄNGE	622443.5N 0155054.4E	722	2133	F R	Wind turbine
	15425	ÄNGE	622407.0N 0154424.6E	722	2329	F R	Wind turbine
	15426	ÄNGE	622131.8N 0154937.3E	722	2113	FLG W	Wind turbine
	15427	ÄNGE	622340.3N 0154438.0E	722	2303	F R	Wind turbine
	15428	ÄNGE	622327.5N 0154516.5E	722	2264	F R	Wind turbine
	15429	ÄNGE	622514.2N 0154528.0E	722	2231	FLG W	Wind turbine
	15430	ÄNGE	622354.9N 0154529.5E	722	2297	F R	Wind turbine
	15431	ÄNGE	622331.8N 0154807.5E	722	2188	F R	Wind turbine
	15432	ÄNGE	621927.7N 0154457.1E	722	2034	F R	Wind turbine
	15433	ÄNGE	622327.2N 0154940.3E	722	2093	F R	Wind turbine
	15434	ÄNGE	622239.8N 0154619.6E	722	2205	F R	Wind turbine
	15435	ÄNGE	622206.9N 0154624.7E	722	2241	FLG W	Wind turbine
	15436	ÄNGE	622305.3N 0154814.2E	722	2159	F R	Wind turbine
	15437	ÄNGE	622332.0N 0154619.1E	722	2247	F R	Wind turbine
	15438	ÄNGE	622142.5N 0154600.3E	722	2293	F R	Wind turbine
	15439	ÄNGE	622149.8N 0154524.2E	722	2303	F R	Wind turbine
	15440	ÄNGE	622138.6N 0154641.0E	722	2234	F R	Wind turbine
	15441	ÄNGE	622140.7N 0154727.9E	722	2274	F R	Wind turbine
	15442	ÄNGE	622151.0N 0154833.2E	722	2244	F R	Wind turbine
	15443	ÄNGE	622138.0N 0154342.7E	722	2162	F R	Wind turbine
	15444	ÄNGE	622212.6N 0154905.9E	722	2297	FLG W	Wind turbine
	15445	ÄNGE	622224.4N 0154942.5E	722	2333	F R	Wind turbine
	15446	ÄNGE	622211.9N 0155031.3E	722	2136	FLG W	Wind turbine
	15447	ÄNGE	622058.1N 0154353.5E	722	2234	F R	Wind turbine
	15448	ÄNGE	622429.8N 0155021.2E	722	2110	F R	Wind turbine
	15449	ÄNGE	622432.8N 0154607.4E	722	2221	F R	Wind turbine
	15450	ÄNGE	622004.7N 0154626.5E	722	2185	FLG W	Wind turbine
	15451	ÄNGE	621939.4N 0154703.3E	722	2244	F R	Wind turbine
	15452	ÄNGE	622406.9N 0154801.6E	722	2116	F R	Wind turbine
	15466	ÄNGE	622348.9N 0154859.3E	722	2110	F R	Wind turbine
	15467	ÄNGE	622006.9N 0154701.7E	722	2178	F R	Wind turbine
	15468	ÄNGE	622410.8N 0154951.4E	722	2047	F R	Wind turbine
	15469	ÄNGE	622001.8N 0154456.2E	722	2129	F R	Wind turbine
	15470	ÄNGE	622018.2N 0154406.7E	722	2221	FLG W	Wind turbine
	15471	ÄNGE	622044.8N 0154313.6E	722	2195	F R	Wind turbine
	15472	ÄNGE	622038.9N 0154547.6E	722	2185	F R	Wind turbine
	15473	ÄNGE	622040.0N 0154504.6E	722	2205	F R	Wind turbine
	15474	ÄNGE	621936.8N 0154612.8E	722	2146	FLG W	Wind turbine
	15475	ÄNGE	622530.4N 0154624.9E	722	2287	F R	Wind turbine
	15476	ÄNGE	622001.5N 0154258.8E	722	2126	F R	Wind turbine
	15477	ÄNGE	622404.1N 0154500.1E	722	2365	F R	Wind turbine
	15478	ÄNGE	622355.1N 0154651.0E	722	2205	FLG W	Wind turbine
	15479	ÄNGE	622056.5N 0154639.7E	722	2087	F R	Wind turbine
	15480	ÄNGE	622249.1N 0154649.9E	722	2306	F R	Wind turbine
	15481	ÄNGE	622246.4N 0154809.7E	722	2198	FLG W	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	15482	ÅNGE	622139.9N 0154453.9E	722	2234	F R	Wind turbine
	15483	ÅNGE	622433.9N 0154645.7E	722	2142	FLG W	Wind turbine
	15484	ÅNGE	622159.4N 0154951.7E	722	2185	F R	Wind turbine
	15485	ÅNGE	622123.9N 0154734.0E	722	2244	F R	Wind turbine
	15486	ÅNGE	622207.9N 0154709.3E	722	2201	F R	Wind turbine
	15487	ÅNGE	622027.9N 0154251.5E	722	2277	F R	Wind turbine
	15488	ÅNGE	622326.3N 0154654.7E	722	2218	FLG W	Wind turbine
	15489	ÅNGE	622008.0N 0154225.8E	722	2142	F R	Wind turbine
	15490	ÅNGE	622059.5N 0154429.0E	722	2228	F R	Wind turbine
	15491	ÅNGE	622159.9N 0154456.1E	722	2208	FLG W	Wind turbine
	15527	LJUSDAL	621624.0N 0155150.2E	722	2316	FLG W	Wind turbine
	15528	LJUSDAL	621601.8N 0155123.6E	722	2359	FLG W	Wind turbine
	15529	LJUSDAL	621555.2N 0155203.6E	722	2379	F R	Wind turbine
	15530	LJUSDAL	621556.8N 0155241.0E	722	2320	F R	Wind turbine
	15531	LJUSDAL	621557.4N 0155311.0E	722	2316	FLG W	Wind turbine
	15532	LJUSDAL	621532.8N 0155123.6E	722	2241	F R	Wind turbine
	15533	LJUSDAL	621527.5N 0155323.5E	722	2277	FLG W	Wind turbine
	15534	LJUSDAL	621514.9N 0155127.0E	722	2234	FLG W	Wind turbine
	15535	LJUSDAL	621516.2N 0155157.7E	722	2254	F R	Wind turbine
	15536	LJUSDAL	621457.2N 0155240.9E	722	2316	FLG W	Wind turbine
	15537	LJUSDAL	621501.1N 0155311.7E	722	2303	F R	Wind turbine
	15538	LJUSDAL	621459.4N 0155209.9E	722	2277	F R	Wind turbine
	15886	YTTERHOGDAL	621215.9N 0152203.1E	482	1886	FLG R	Mast
	15887	YTTERHOGDAL	620830.2N 0151947.7E	558	1949	FLG W	Mast
	16226	KÄLLMYRTJÄRNEN	624700.8N 0153123.2E	354	2043	unknown	Mast
	17465	RÖDTJÄRNSBERGET	621815.5N 0153332.0E	656	2236	FLG W	Wind turbine
	17466	RÖDTJÄRNSBERGET	621829.2N 0153329.9E	656	2201	F R	Wind turbine
	17467	RÖDTJÄRNSBERGET	621843.4N 0153324.9E	656	2282	F R	Wind turbine
	17468	RÖDTJÄRNSBERGET	621856.6N 0153251.5E	656	2325	FLG W	Wind turbine
	17469	RÖDTJÄRNSBERGET	621844.7N 0153220.8E	656	2227	F R	Wind turbine
	17470	RÖDTJÄRNSBERGET	621838.7N 0153146.2E	656	2218	F R	Wind turbine
	17471	RÖDTJÄRNSBERGET	621849.2N 0153105.4E	656	2183	F R	Wind turbine
	17472	RÖDTJÄRNSBERGET	621813.9N 0153110.9E	656	2212	FLG W	Wind turbine
	17473	RÖDTJÄRNSBERGET	621832.8N 0153053.1E	656	2173	F R	Wind turbine
	17474	RÖDTJÄRNSBERGET	621842.5N 0153017.3E	656	2222	FLG W	Wind turbine
	17475	RÖDTJÄRNSBERGET	621855.7N 0153030.7E	656	2169	FLG W	Wind turbine
62N 16E	9284	POPPBERGET	622100.7N 0161718.6E	328	1932	FLG R	Mast
	10855	NYVALLSÅSEN	620601.7N 0165930.8E	492	1551	FLG R	Wind turbine
	10856	NYVALLSÅSEN	620549.9N 0165934.1E	492	1601	FLG R	Wind turbine
	10862	BRÄNNÅSEN	620254.5N 0165642.0E	492	1494	FLG R	Wind turbine
	10863	BRÄNNÅSEN	620244.2N 0165652.9E	492	1489	FLG R	Wind turbine
	10864	BRÄNNÅSEN	620251.9N 0165724.7E	492	1464	FLG R	Wind turbine
	10865	BRÄNNÅSEN	620242.3N 0165741.0E	492	1476	FLG R	Wind turbine
	11981	NÖTÅSEN	624108.8N 0163700.2E	492	1637	FLG R	Wind turbine
	11982	NÖTÅSEN	624057.0N 0163720.8E	492	1634	FLG R	Wind turbine
	11983	NÖTÅSEN	624047.4N 0163750.9E	492	1601	FLG R	Wind turbine
	11984	NÖTÅSEN	624041.3N 0163658.1E	492	1558	FLG R	Wind turbine
	12446	LIDEN	624646.1N 0165824.7E	446	1785	F R	Mast
	13006	LIDEN	624226.7N 0165414.2E	623	1893	F R	Wind turbine
	13007	LIDEN	624241.8N 0165426.1E	623	1952	F R	Wind turbine
	13008	LIDEN	624236.0N 0165326.8E	623	1844	FLG W	Wind turbine
	13009	LIDEN	624249.1N 0165352.4E	623	1942	F R	Wind turbine
	13010	LIDEN	624258.8N 0165325.4E	623	1854	FLG W	Wind turbine
	13011	LIDEN	624228.0N 0165538.5E	623	1880	F R	Wind turbine
	13012	LIDEN	624240.5N 0165604.5E	623	1886	FLG W	Wind turbine
	13013	LIDEN	624219.0N 0165510.7E	623	1900	F R	Wind turbine
	13014	LIDEN	624203.9N 0165537.7E	623	1909	F R	Wind turbine
	13015	LIDEN	624222.8N 0165639.3E	623	1955	F R	Wind turbine
	13016	LIDEN	624229.4N 0165718.7E	623	1969	FLG W	Wind turbine
	13017	LIDEN	624209.7N 0165700.2E	623	1965	F R	Wind turbine
	13018	LIDEN	624203.9N 0165726.6E	623	1900	F R	Wind turbine
	13019	LIDEN	624152.2N 0165625.8E	623	1975	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13020	LIDEN	624140.0N 0165653.0E	623	1969	F R	Wind turbine
	13021	LIDEN	624149.1N 0165724.6E	623	1936	FLG W	Wind turbine
	13022	LIDEN	624141.5N 0165553.7E	623	1896	F R	Wind turbine
	13023	LIDEN	624136.7N 0165504.7E	623	1919	FLG W	Wind turbine
	13024	LIDEN	624118.5N 0165545.5E	623	1926	F R	Wind turbine
	13025	LIDEN	624044.0N 0165612.0E	623	1870	FLG W	Wind turbine
	13026	LIDEN	624108.2N 0165621.0E	623	1916	F R	Wind turbine
	13027	LIDEN	624108.7N 0165719.1E	623	1919	F R	Wind turbine
	13028	LIDEN	624121.5N 0165812.9E	623	1955	FLG W	Wind turbine
	13502	JÄRKVISSLE	624610.1N 0163418.2E	591	2018	FLG W	Wind turbine
	13503	JÄRKVISSLE	624320.0N 0162741.8E	591	1893	FLG W	Wind turbine
	13504	JÄRKVISSLE	624344.4N 0162740.5E	591	1949	F R	Wind turbine
	13505	JÄRKVISSLE	624420.1N 0162910.9E	591	1936	FLG W	Wind turbine
	13506	JÄRKVISSLE	624412.0N 0162821.8E	591	1975	F R	Wind turbine
	13507	JÄRKVISSLE	624431.9N 0162827.8E	591	1936	F R	Wind turbine
	13508	JÄRKVISSLE	624424.4N 0162748.1E	591	1972	F R	Wind turbine
	13509	JÄRKVISSLE	624440.3N 0162742.7E	591	1936	F R	Wind turbine
	13510	JÄRKVISSLE	624448.0N 0162713.0E	591	1949	FLG W	Wind turbine
	13511	JÄRKVISSLE	624432.1N 0163034.7E	591	1942	FLG W	Wind turbine
	13512	JÄRKVISSLE	624439.3N 0163002.8E	591	2024	F R	Wind turbine
	13513	JÄRKVISSLE	624451.9N 0162942.2E	591	1975	F R	Wind turbine
	13514	JÄRKVISSLE	624507.8N 0162853.2E	591	2021	F R	Wind turbine
	13515	JÄRKVISSLE	624527.0N 0162852.4E	591	2021	F R	Wind turbine
	13516	JÄRKVISSLE	624500.6N 0163119.4E	591	2033	F R	Wind turbine
	13517	JÄRKVISSLE	624505.7N 0163046.9E	591	2024	F R	Wind turbine
	13518	JÄRKVISSLE	624515.2N 0163129.8E	591	2008	F R	Wind turbine
	13519	JÄRKVISSLE	624524.0N 0163058.3E	591	2073	F R	Wind turbine
	13520	JÄRKVISSLE	624525.5N 0163024.0E	591	2044	F R	Wind turbine
	13521	JÄRKVISSLE	624539.1N 0163010.6E	591	2060	F R	Wind turbine
	13522	JÄRKVISSLE	624532.6N 0162932.5E	591	2034	F R	Wind turbine
	13523	JÄRKVISSLE	624547.5N 0162929.1E	591	2073	FLG W	Wind turbine
	13524	JÄRKVISSLE	624530.8N 0163200.9E	591	2047	F R	Wind turbine
	13525	JÄRKVISSLE	624544.5N 0163115.9E	591	2110	F R	Wind turbine
	13526	JÄRKVISSLE	624600.0N 0163053.6E	591	2103	F R	Wind turbine
	13527	JÄRKVISSLE	624702.0N 0163132.2E	591	2057	FLG W	Wind turbine
	13528	JÄRKVISSLE	624716.8N 0163203.4E	591	1991	F R	Wind turbine
	13529	JÄRKVISSLE	624732.6N 0163147.0E	591	1978	F R	Wind turbine
	13530	JÄRKVISSLE	624753.4N 0163111.5E	591	2011	FLG W	Wind turbine
	13531	JÄRKVISSLE	624738.5N 0163114.3E	591	1988	F R	Wind turbine
	13532	JÄRKVISSLE	624533.8N 0163348.6E	591	2005	FLG W	Wind turbine
	13533	JÄRKVISSLE	624549.2N 0163331.4E	591	2064	F R	Wind turbine
	13534	JÄRKVISSLE	624606.7N 0163323.6E	591	2087	F R	Wind turbine
	13535	JÄRKVISSLE	624634.6N 0163412.4E	591	2054	F R	Wind turbine
	13536	JÄRKVISSLE	624643.5N 0163344.0E	591	2067	F R	Wind turbine
	13537	JÄRKVISSLE	624634.2N 0163309.0E	591	2064	F R	Wind turbine
	13538	JÄRKVISSLE	624654.0N 0163307.9E	591	2123	F R	Wind turbine
	13539	JÄRKVISSLE	624706.3N 0163326.2E	591	2067	F R	Wind turbine
	13540	JÄRKVISSLE	624702.8N 0163415.1E	591	2018	FLG W	Wind turbine
	13541	JÄRKVISSLE	624730.3N 0163321.5E	591	2070	F R	Wind turbine
	13542	JÄRKVISSLE	624734.9N 0163359.0E	591	2024	FLG W	Wind turbine
	13543	JÄRKVISSLE	624518.1N 0163338.5E	591	1962	F R	Wind turbine
	13544	JÄRKVISSLE	624502.6N 0163353.4E	591	1949	FLG W	Wind turbine
	13560	NEDANSJÖ	623200.4N 0164843.1E	591	1827	FLG W	Wind turbine
	13561	NEDANSJÖ	623218.7N 0164851.4E	591	1841	F R	Wind turbine
	13562	NEDANSJÖ	623228.4N 0164819.1E	591	1844	FLG W	Wind turbine
	13563	NEDANSJÖ	623245.1N 0164804.3E	591	1821	F R	Wind turbine
	13564	NEDANSJÖ	623324.7N 0164824.7E	591	1837	F R	Wind turbine
	13565	NEDANSJÖ	623327.7N 0164746.7E	591	1877	FLG W	Wind turbine
	13566	NEDANSJÖ	623310.0N 0164752.7E	591	1903	F R	Wind turbine
	13567	NEDANSJÖ	623337.5N 0165045.4E	591	1768	F R	Wind turbine
	13568	NEDANSJÖ	623358.6N 0165056.3E	591	1752	FLG W	Wind turbine
	13569	NEDANSJÖ	623324.3N 0165118.9E	591	1837	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13570	NEDANSJÖ	623308.4N 0165139.6E	591	1808	F R	Wind turbine
	13571	NEDANSJÖ	623252.0N 0165158.0E	591	1716	FLG W	Wind turbine
	13572	NEDANSJÖ	623228.6N 0165302.3E	591	1690	F R	Wind turbine
	13573	NEDANSJÖ	623234.1N 0165346.4E	591	1703	F R	Wind turbine
	13574	NEDANSJÖ	623223.6N 0165420.8E	591	1699	FLG W	Wind turbine
	13575	NEDANSJÖ	623204.0N 0165231.6E	591	1762	FLG W	Wind turbine
	13576	NEDANSJÖ	623150.8N 0165302.7E	591	1706	F R	Wind turbine
	13577	NEDANSJÖ	623131.3N 0165319.5E	591	1683	FLG W	Wind turbine
	15606	KLEVBERGET	622725.0N 0160643.7E	656	1873	FLG W	Wind turbine
	15607	KLEVBERGET	622657.2N 0160654.2E	656	2113	F R	Wind turbine
	15608	KLEVBERGET	622610.4N 0160621.5E	656	2024	FLG W	Wind turbine
	15609	KLEVBERGET	622547.2N 0160626.2E	656	2008	F R	Wind turbine
	15610	KLEVBERGET	622622.6N 0160746.5E	656	2110	F R	Wind turbine
	15611	KLEVBERGET	622604.4N 0160732.7E	656	2083	F R	Wind turbine
	15612	KLEVBERGET	622649.1N 0160728.2E	656	2110	F R	Wind turbine
	15613	KLEVBERGET	622707.9N 0160754.6E	656	2192	F R	Wind turbine
	15614	KLEVBERGET	622647.0N 0160826.0E	656	2028	FLG W	Wind turbine
	15615	KLEVBERGET	622707.6N 0160848.9E	656	2083	F R	Wind turbine
	15616	KLEVBERGET	622656.0N 0160921.2E	656	2001	FLG W	Wind turbine
	15617	KLEVBERGET	622605.5N 0160934.1E	656	1978	FLG W	Wind turbine
	15618	KLEVBERGET	622623.0N 0161017.1E	656	1883	FLG W	Wind turbine
	15619	KLEVBERGET	622544.2N 0160953.4E	656	2011	FLG W	Wind turbine
	15620	KLEVBERGET	622556.2N 0160829.1E	656	2080	F R	Wind turbine
	15621	KLEVBERGET	622530.9N 0160808.3E	656	2070	FLG W	Wind turbine
	15622	KLEVBERGET	622511.7N 0160756.0E	656	2126	FLG W	Wind turbine
	15623	KLEVBERGET	622505.8N 0160644.1E	656	1991	F R	Wind turbine
	15624	KLEVBERGET	622448.5N 0160656.7E	656	2031	FLG W	Wind turbine
	15625	KLEVBERGET	622450.6N 0160750.3E	656	2057	FLG W	Wind turbine
	15626	KLEVBERGET	622406.9N 0160743.6E	656	2005	FLG W	Wind turbine
	15627	KLEVBERGET	622339.0N 0160802.4E	656	2008	FLG W	Wind turbine
	15628	KLEVBERGET	622333.1N 0160703.1E	656	2034	F R	Wind turbine
	15629	KLEVBERGET	622311.6N 0160701.5E	656	1978	FLG W	Wind turbine
	15711	TIMRÄ	624336.8N 0165943.8E	656	1795	F R	Wind turbine
	15712	TIMRÄ	624349.3N 0165837.9E	656	1923	FLG W	Wind turbine
	15713	TIMRÄ	624319.7N 0165930.9E	656	1972	F R	Wind turbine
	15714	TIMRÄ	624322.0N 0165823.5E	656	1988	FLG W	Wind turbine
	15716	TIMRÄ	624256.7N 0165928.3E	656	1988	FLG W	Wind turbine
	15730	TIMRÄ	624600.0N 0165938.2E	656	1903	FLG W	Wind turbine
	15731	TIMRÄ	624621.8N 0165854.4E	656	1900	F R	Wind turbine
	15732	TIMRÄ	624635.8N 0165809.6E	656	1972	FLG W	Wind turbine
	15733	TIMRÄ	624623.3N 0165941.5E	682	1903	F R	Wind turbine
	15735	TIMRÄ	624659.0N 0165958.2E	682	1909	F R	Wind turbine
	15736	TIMRÄ	624716.5N 0165912.9E	656	1883	FLG W	Wind turbine
	15737	TIMRÄ	624833.6N 0165958.4E	656	1896	FLG W	Wind turbine
	15746	TIMRÄ	624936.2N 0165944.8E	682	1870	FLG W	Wind turbine
	15747	TIMRÄ	624956.0N 0165939.2E	682	1985	F R	Wind turbine
	15748	TIMRÄ	625013.3N 0165940.4E	682	2008	F R	Wind turbine
	16222	TORPS-VIKEN	622616.7N 0160722.5E	335	1765	unknown	Mast
62N 17E	458	SUNDSVALL/KLISSBERGET	622243.1N 0171209.3E	348	1214	F R	Mast
	460	SUNDSVALL/S STADSBERGET	622203.1N 0171903.6E	722	1505	F R/FLG W	Mast
	461	HÄRNÖSAND/HÄRNÖN	623631.9N 0175742.2E	354	886	F R	Mast
	462	KRAMFORS/LUGNVIK	625629.7N 0175656.9E	466	1385	F R	Mast
	468	MATFORS	621725.3N 0170204.4E	338	782	F R	Mast
	661	SUNDSVALL/KORSTA	622412.7N 0172326.3E	328	380	F R	Chimney
	1340	TIMRÄ/SODAHUSSKORSTEN	622827.3N 0171945.3E	377	404	-	Chimney
	1607	TIMRÄ/MEDSBRÄNNERIET	622824.5N 0171943.5E	361	391	F R	Chimney
	3351	VEDA	624737.3N 0175553.4E	620	620	F R/FLG W	Tower
	3352	VEDA	624808.6N 0175643.9E	623	623	F R/FLG W	Tower
	5095	SUNDSVALL/TIMRÄ	622828.5N 0171952.4E	364	394	-	Chimney
	9699	UTANSJÖ	624500.3N 0175226.0E	410	1158	FLG R	Wind turbine
	9700	UTANSJÖ	624451.7N 0175248.0E	410	1223	FLG R	Wind turbine
	9701	UTANSJÖ	624442.9N 0175306.0E	410	1190	FLG R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	9702	UTANSJÖ	624504.6N 0175332.6E	410	994	FLG R	Wind turbine
	9703	UTANSJÖ	624446.3N 0175210.6E	410	1106	FLG R	Wind turbine
	10606	VITBERGET	625858.5N 0172612.9E	338	1749	F R	Mast
	10650	HÄRNÖSAND	623624.3N 0175841.1E	492	932	FLG R	Wind turbine
	10651	HÄRNÖSAND	623618.8N 0175748.3E	427	892	FLG R	Wind turbine
	10874	MÖRKÅSEN	620500.3N 0170206.7E	492	1516	FLG R	Wind turbine
	10875	MÖRKÅSEN	620507.9N 0170233.6E	492	1583	FLG R	Wind turbine
	10876	MÖRKÅSEN	620517.8N 0170258.7E	492	1604	FLG R	Wind turbine
	11857	STORLIDBERGET	625739.2N 0171241.8E	394	1653	F R	Mast
	12594	BJÄRTRÄ	625925.1N 0175559.8E	492	1339	FLG R	Wind turbine
	12595	BJÄRTRÄ	625912.1N 0175547.4E	492	1414	FLG R	Wind turbine
	12596	BJÄRTRÄ	625901.5N 0175536.6E	492	1391	FLG R	Wind turbine
	12597	BJÄRTRÄ	625850.0N 0175535.8E	492	1440	FLG R	Wind turbine
	12598	BJÄRTRÄ	625844.0N 0175615.6E	492	1467	FLG R	Wind turbine
	12599	BJÄRTRÄ	625854.4N 0175611.4E	492	1430	FLG R	Wind turbine
	12644	FURUHULT	624611.1N 0174643.0E	492	1396	FLG R	Wind turbine
	12645	FURUHULT	624614.2N 0174538.8E	492	1476	FLG R	Wind turbine
	12646	FURUHULT	624613.2N 0174501.9E	492	1457	FLG R	Wind turbine
	12647	FURUHULT	624629.3N 0174432.9E	492	1434	FLG R	Wind turbine
	12648	FURUHULT	624614.4N 0174414.8E	492	1421	FLG R	Wind turbine
	13883	HÄRNÖSAND	623521.9N 0175009.3E	591	1214	FLG W	Wind turbine
	13884	HÄRNÖSAND	623525.6N 0175046.6E	591	1145	FLG W	Wind turbine
	14148	VIKSJÖ/LUTMYRAN	625139.4N 0172812.4E	410	1717	F R	Mast
	14150	LAXSJÖN	625303.3N 0171059.6E	476	1626	F R	Mast
	14152	LAXSJÖN	625328.4N 0171137.9E	476	1632	F R	Mast
	14241	VIKSJÖ/EKSJÖN	624615.0N 0171736.0E	476	1578	F R	Mast
	14331	VIKSJÖ/EKSJÖN	624605.1N 0171748.7E	722	1804	FLG W	Wind turbine
	14332	VIKSJÖ/EKSJÖN	624615.8N 0171826.3E	722	1824	F R	Wind turbine
	14333	VIKSJÖ/EKSJÖN	624628.3N 0171901.2E	722	1903	F R	Wind turbine
	14334	VIKSJÖ/EKSJÖN	624636.1N 0171956.6E	722	1821	FLG W	Wind turbine
	14335	VIKSJÖ/EKSJÖN	624640.5N 0171752.0E	722	1952	FLG W	Wind turbine
	14336	VIKSJÖ/EKSJÖN	624650.2N 0171845.0E	722	1965	F R	Wind turbine
	14337	VIKSJÖ/EKSJÖN	624657.8N 0171934.2E	722	1919	F R	Wind turbine
	14338	VIKSJÖ/EKSJÖN	624700.6N 0172032.4E	722	1841	F R	Wind turbine
	14339	VIKSJÖ/EKSJÖN	624711.8N 0171841.6E	722	1864	F R	Wind turbine
	14340	VIKSJÖ/EKSJÖN	624721.1N 0172049.4E	722	1906	FLG W	Wind turbine
	14341	VIKSJÖ/EKSJÖN	624725.2N 0171954.5E	722	1995	F R	Wind turbine
	14342	VIKSJÖ/EKSJÖN	624730.6N 0171900.4E	722	1752	F R	Wind turbine
	14343	LAXSJÖN	624826.1N 0171609.5E	722	1909	FLG W	Wind turbine
	14344	LAXSJÖN	624839.6N 0171657.3E	722	1870	F R	Wind turbine
	14345	LAXSJÖN	624847.2N 0171603.7E	722	2001	F R	Wind turbine
	14346	LAXSJÖN	624854.0N 0171726.1E	722	1860	F R	Wind turbine
	14347	LAXSJÖN	624901.1N 0171514.3E	722	2001	F R	Wind turbine
	14348	LAXSJÖN	624902.2N 0171623.0E	656	1969	F R	Wind turbine
	14349	LAXSJÖN	624901.0N 0171824.2E	722	1972	FLG W	Wind turbine
	14350	LAXSJÖN	624909.5N 0171305.5E	722	2001	FLG W	Wind turbine
	14351	LAXSJÖN	624916.8N 0171135.1E	722	1791	FLG W	Wind turbine
	14352	LAXSJÖN	624912.4N 0171701.1E	722	2005	F R	Wind turbine
	14353	LAXSJÖN	624924.0N 0171211.8E	722	2005	F R	Wind turbine
	14354	LAXSJÖN	624923.7N 0171334.8E	722	2001	F R	Wind turbine
	14355	LAXSJÖN	624922.4N 0171512.9E	656	1995	F R	Wind turbine
	14356	LAXSJÖN	624923.4N 0171608.4E	656	2001	F R	Wind turbine
	14357	LAXSJÖN	624924.4N 0171757.1E	656	1995	F R	Wind turbine
	14358	LAXSJÖN	624928.4N 0171845.9E	722	1906	FLG W	Wind turbine
	14359	LAXSJÖN	624935.5N 0171248.2E	610	1988	F R	Wind turbine
	14360	LAXSJÖN	624943.5N 0171137.5E	722	2001	F R	Wind turbine
	14361	LAXSJÖN	624943.4N 0171339.4E	722	2005	F R	Wind turbine
	14362	LAXSJÖN	624942.8N 0171618.4E	656	2001	F R	Wind turbine
	14363	LAXSJÖN	624949.6N 0171425.8E	722	1988	F R	Wind turbine
	14364	LAXSJÖN	624954.2N 0171242.8E	610	1991	F R	Wind turbine
	14365	LAXSJÖN	624950.9N 0171737.6E	656	2005	F R	Wind turbine
	14366	LAXSJÖN	625005.1N 0171154.0E	722	2001	FLG W	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	14367	LAXSJÖN	625004.4N 0171337.0E	722	2001	F R	Wind turbine
	14368	LAXSJÖN	625004.1N 0171556.3E	656	2005	F R	Wind turbine
	14369	LAXSJÖN	625008.5N 0171640.8E	656	1988	F R	Wind turbine
	14370	LAXSJÖN	625022.4N 0171352.5E	722	1998	F R	Wind turbine
	14371	LAXSJÖN	625024.2N 0171259.8E	610	1926	F R	Wind turbine
	14372	LAXSJÖN	625023.1N 0171450.4E	722	1959	FLG W	Wind turbine
	14373	LAXSJÖN	625026.7N 0171205.0E	656	2001	F R	Wind turbine
	14374	LAXSJÖN	625045.6N 0171313.3E	656	2005	F R	Wind turbine
	14375	LAXSJÖN	625047.4N 0171214.2E	722	2001	F R	Wind turbine
	14376	LAXSJÖN	625100.2N 0171341.7E	656	2001	F R	Wind turbine
	14377	LAXSJÖN	625058.4N 0171546.3E	656	2001	F R	Wind turbine
	14378	LAXSJÖN	625108.6N 0171211.2E	656	2001	F R	Wind turbine
	14379	LAXSJÖN	625107.0N 0171641.5E	656	1998	FLG W	Wind turbine
	14380	LAXSJÖN	625114.9N 0171300.3E	610	2008	F R	Wind turbine
	14381	LAXSJÖN	625120.4N 0171344.3E	656	1998	F R	Wind turbine
	14382	LAXSJÖN	625122.3N 0171542.1E	656	2001	F R	Wind turbine
	14383	LAXSJÖN	625130.6N 0171149.9E	656	2008	F R	Wind turbine
	14384	LAXSJÖN	625132.2N 0171232.3E	610	1972	F R	Wind turbine
	14385	LAXSJÖN	625131.6N 0171622.4E	656	2005	F R	Wind turbine
	14386	LAXSJÖN	625138.6N 0171356.1E	722	1998	F R	Wind turbine
	14387	LAXSJÖN	625144.4N 0171300.7E	656	2001	F R	Wind turbine
	14388	LAXSJÖN	625146.7N 0171520.7E	722	1995	F R	Wind turbine
	14389	LAXSJÖN	625149.8N 0171206.4E	656	1998	F R	Wind turbine
	14390	LAXSJÖN	625152.1N 0171113.9E	722	2005	FLG W	Wind turbine
	14391	LAXSJÖN	625147.8N 0171645.1E	722	1841	FLG W	Wind turbine
	14392	LAXSJÖN	625204.1N 0171350.7E	722	1919	F R	Wind turbine
	14393	LAXSJÖN	625211.7N 0171237.0E	722	2001	F R	Wind turbine
	14394	LAXSJÖN	625220.1N 0171123.6E	722	1952	F R	Wind turbine
	14395	LAXSJÖN	625223.0N 0171314.9E	656	1969	F R	Wind turbine
	14396	LAXSJÖN	625223.6N 0171409.5E	722	1939	FLG W	Wind turbine
	14397	LAXSJÖN	625234.3N 0171149.9E	722	1886	F R	Wind turbine
	14398	LAXSJÖN	625240.5N 0171231.9E	722	2001	F R	Wind turbine
	14399	LAXSJÖN	625242.6N 0171320.8E	722	1982	F R	Wind turbine
	14400	LAXSJÖN	625253.1N 0171112.5E	722	1893	FLG W	Wind turbine
	14401	LAXSJÖN	625259.7N 0171158.5E	722	1939	F R	Wind turbine
	14402	LAXSJÖN	625311.2N 0171309.6E	722	1864	FLG W	Wind turbine
	14403	LAXSJÖN	625320.6N 0171157.4E	722	1873	FLG W	Wind turbine
	14689	BJÖRNLANDHÖJDEN	624858.8N 0173017.1E	720	1763	F R	Wind turbine
	14690	BJÖRNLANDHÖJDEN	624920.5N 0173040.7E	720	1767	F R	Wind turbine
	14710	BJÖRNLANDHÖJDEN	624928.2N 0172936.1E	720	1996	F R	Wind turbine
	14711	BJÖRNLANDHÖJDEN	624940.4N 0173009.7E	720	1872	F R	Wind turbine
	14712	BJÖRNLANDHÖJDEN	624958.8N 0173206.3E	720	1727	F R	Wind turbine
	14713	BJÖRNLANDHÖJDEN	625002.2N 0172907.2E	720	1993	F R	Wind turbine
	14714	BJÖRNLANDHÖJDEN	624958.2N 0173336.6E	720	1770	F R	Wind turbine
	14715	BJÖRNLANDHÖJDEN	625007.9N 0172948.0E	720	1911	F R	Wind turbine
	14716	BJÖRNLANDHÖJDEN	625011.7N 0172812.1E	720	1865	F R	Wind turbine
	14717	BJÖRNLANDHÖJDEN	625009.0N 0173243.2E	720	1901	F R	Wind turbine
	14718	BJÖRNLANDHÖJDEN	625011.9N 0173548.4E	720	1675	F R	Wind turbine
	14719	BJÖRNLANDHÖJDEN	625011.1N 0173113.9E	720	1882	F R	Wind turbine
	14720	BJÖRNLANDHÖJDEN	625012.4N 0173032.9E	655	1845	F R	Wind turbine
	14721	BJÖRNLANDHÖJDEN	625021.2N 0172858.0E	720	1996	F R	Wind turbine
	14722	BJÖRNLANDHÖJDEN	625017.6N 0173405.2E	720	1790	F R	Wind turbine
	14723	BJÖRNLANDHÖJDEN	625013.1N 0173458.3E	720	1695	F R	Wind turbine
	14724	BJÖRNLANDHÖJDEN	625028.1N 0172953.4E	720	1983	F R	Wind turbine
	14725	BJÖRNLANDHÖJDEN	625034.0N 0172740.7E	720	1868	F R	Wind turbine
	14726	BJÖRNLANDHÖJDEN	625033.3N 0173034.8E	720	2000	F R	Wind turbine
	14727	BJÖRNLANDHÖJDEN	625031.3N 0173242.5E	720	1964	F R	Wind turbine
	14728	BJÖRNLANDHÖJDEN	625038.8N 0172910.2E	655	1990	F R	Wind turbine
	14729	BJÖRNLANDHÖJDEN	625037.5N 0173144.1E	720	1882	F R	Wind turbine
	14730	BJÖRNLANDHÖJDEN	625037.2N 0173339.2E	720	1806	F R	Wind turbine
	14731	BJÖRNLANDHÖJDEN	625036.2N 0173438.4E	720	1678	F R	Wind turbine
	14732	BJÖRNLANDHÖJDEN	625042.8N 0172817.6E	720	1980	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	14733	BJÖRNLANDHÖJDEN	625044.3N 0172943.0E	655	1990	F R	Wind turbine
	14734	BJÖRNLANDHÖJDEN	625050.6N 0173250.0E	720	1967	F R	Wind turbine
	14735	BJÖRNLANDHÖJDEN	625055.2N 0173026.8E	655	1914	F R	Wind turbine
	14736	BJÖRNLANDHÖJDEN	625055.2N 0173331.4E	720	1740	F R	Wind turbine
	14737	BJÖRNLANDHÖJDEN	625058.0N 0173133.5E	720	1931	F R	Wind turbine
	14738	BJÖRNLANDHÖJDEN	625103.1N 0172809.0E	720	1993	F R	Wind turbine
	14739	BJÖRNLANDHÖJDEN	625113.1N 0172903.4E	609	2003	F R	Wind turbine
	14740	BJÖRNLANDHÖJDEN	625110.4N 0173240.2E	720	1780	F R	Wind turbine
	14741	BJÖRNLANDHÖJDEN	625115.4N 0172942.4E	655	1990	F R	Wind turbine
	14742	BJÖRNLANDHÖJDEN	625119.3N 0173032.6E	720	1914	F R	Wind turbine
	14743	BJÖRNLANDHÖJDEN	625119.3N 0173135.2E	720	1895	F R	Wind turbine
	14744	BJÖRNLANDHÖJDEN	625127.7N 0172813.8E	655	1957	F R	Wind turbine
	14745	BJÖRNLANDHÖJDEN	625135.0N 0172941.6E	655	1996	F R	Wind turbine
	14746	BJÖRNLANDHÖJDEN	625138.9N 0173218.0E	720	1819	F R	Wind turbine
	14747	BJÖRNLANDHÖJDEN	625144.1N 0173045.9E	720	1996	F R	Wind turbine
	14748	BJÖRNLANDHÖJDEN	625151.2N 0173126.2E	720	1921	F R	Wind turbine
	15715	TIMRÅ	624308.7N 0170028.4E	656	1985	FLG W	Wind turbine
	15717	TIMRÅ	624457.4N 0170130.2E	656	1713	FLG W	Wind turbine
	15718	TIMRÅ	624447.6N 0170245.7E	656	1814	F R	Wind turbine
	15719	TIMRÅ	624504.6N 0170248.3E	656	1923	F R	Wind turbine
	15720	TIMRÅ	624419.8N 0170417.8E	656	1785	FLG W	Wind turbine
	15721	TIMRÅ	624340.7N 0170516.7E	656	1893	FLG W	Wind turbine
	15722	TIMRÅ	624456.0N 0170352.5E	656	1870	F R	Wind turbine
	15723	TIMRÅ	624507.4N 0170622.5E	682	1906	FLG W	Wind turbine
	15724	TIMRÅ	624500.2N 0170527.9E	682	1903	F R	Wind turbine
	15725	TIMRÅ	624444.5N 0170601.6E	682	1896	FLG W	Wind turbine
	15726	TIMRÅ	624531.2N 0170502.6E	682	1877	FLG W	Wind turbine
	15727	TIMRÅ	624554.6N 0170345.5E	682	1880	FLG W	Wind turbine
	15728	TIMRÅ	624547.2N 0170308.4E	682	1955	F R	Wind turbine
	15729	TIMRÅ	624529.5N 0170344.7E	682	1955	F R	Wind turbine
	15734	TIMRÅ	624636.4N 0170006.6E	682	1860	F R	Wind turbine
	15738	TIMRÅ	624805.6N 0170018.5E	656	1896	F R	Wind turbine
	15739	TIMRÅ	624740.0N 0170024.7E	682	1857	F R	Wind turbine
	15740	TIMRÅ	624713.2N 0170104.0E	682	1827	F R	Wind turbine
	15741	TIMRÅ	624650.7N 0170135.7E	682	1854	F R	Wind turbine
	15742	TIMRÅ	624803.7N 0170239.0E	656	1909	FLG W	Wind turbine
	15743	TIMRÅ	624739.6N 0170344.4E	656	1969	FLG W	Wind turbine
	15744	TIMRÅ	625004.0N 0170138.2E	656	1985	FLG W	Wind turbine
	15745	TIMRÅ	625020.0N 0170154.8E	656	1919	FLG W	Wind turbine
	15749	TIMRÅ	625029.0N 0170000.8E	682	1972	FLG W	Wind turbine
	15750	TIMRÅ	624953.5N 0170036.2E	682	1988	F R	Wind turbine
	15751	TIMRÅ	625012.2N 0170045.6E	682	2103	F R	Wind turbine
	15752	TIMRÅ	625029.5N 0170056.4E	682	2005	F R	Wind turbine
	16792	SKÖNVIK	622827.8N 0171951.6E	328	358	unknown	Chimney
62N 18E	469	MJÄLLOM	625908.5N 0182334.4E	348	1255	F R	Mast
	901	RINGKALLEN	625300.6N 0181907.6E	344	1227	F R	Mast
	10572	HEMSÖN	624351.6N 0180251.7E	328	1033	F R	Mast
63N 13E	11174	STORBACKEN	634505.8N 0133511.8E	410	2713	FLG R	Wind turbine
	11175	STORBACKEN	634510.3N 0133529.6E	410	2680	FLG R	Wind turbine
	11176	STORBACKEN	634521.7N 0133548.0E	410	2602	FLG R	Wind turbine
	11177	STORBACKEN	634520.5N 0133507.3E	410	2677	FLG R	Wind turbine
	11178	STORBACKEN	634534.3N 0133450.4E	410	2621	FLG R	Wind turbine
	11179	STORBACKEN	634545.6N 0133425.8E	410	2697	FLG R	Wind turbine
	11180	STORBACKEN	634552.0N 0133446.1E	410	2795	FLG R	Wind turbine
	11181	STORBACKEN	634553.1N 0133510.9E	410	2900	FLG R	Wind turbine
	11182	STORBACKEN	634540.6N 0133510.8E	410	2782	FLG R	Wind turbine
	11183	STORBACKEN	634544.2N 0133540.7E	410	2730	FLG R	Wind turbine
	11184	STORBACKEN	634551.8N 0133558.5E	410	2746	FLG R	Wind turbine
	11185	STORBACKEN	634559.1N 0133608.6E	410	2726	FLG R	Wind turbine
63N 14E	480	ÖSTERSUND/BRATTÅSEN	630642.5N 0143600.0E	1083	2577	F R/FLG W	Mast
	6982	RÅSHÖN	632913.9N 0140642.9E	394	2369	F R	Wind turbine
	6983	RÅSHÖN	632920.2N 0140653.2E	394	2480	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	6984	RÅSHÖN	632926.0N 0140704.5E	394	2441	F R	Wind turbine
	6985	RÅSHÖN	632904.3N 0140728.6E	394	2425	F R	Wind turbine
	6986	RÅSHÖN	632911.1N 0140738.6E	394	2464	F R	Wind turbine
	6987	RÅSHÖN	632921.5N 0140747.7E	394	2418	F R	Wind turbine
	6988	RÅSHÖN	632928.4N 0140758.5E	394	2395	F R	Wind turbine
	9590	SVARTBODHÖN	632939.5N 0140834.4E	410	2444	F R	Wind turbine
	9633	MUNKFLOHÖGEN	633258.5N 0145717.8E	410	2090	F R	Mast
	10512	RAFTSJÖHÖJDEN	633534.8N 0145954.8E	492	2034	FLG R	Wind turbine
	10513	RAFTSJÖHÖJDEN	633548.9N 0145952.6E	492	2047	FLG R	Wind turbine
	10514	RAFTSJÖHÖJDEN	633526.4N 0145931.9E	492	2018	FLG R	Wind turbine
	10515	RAFTSJÖHÖJDEN	633541.0N 0145930.0E	492	2080	FLG R	Wind turbine
	12570	FÖLLINGE	633808.7N 0143014.6E	404	1918	F R	Mast
	13301	MUNKFLOHÖGEN	633253.1N 0145759.1E	591	2251	FLG W	Wind turbine
	13302	MUNKFLOHÖGEN	633251.0N 0145721.9E	591	2290	F R	Wind turbine
	13303	MUNKFLOHÖGEN	633242.7N 0145655.3E	591	2283	F R	Wind turbine
	13304	MUNKFLOHÖGEN	633229.6N 0145629.4E	591	2247	F R	Wind turbine
	13305	MUNKFLOHÖGEN	633244.7N 0145620.9E	591	2221	FLG W	Wind turbine
	13306	MUNKFLOHÖGEN	633223.6N 0145558.5E	591	2228	FLG W	Wind turbine
	13307	MUNKFLOHÖGEN	633213.9N 0145636.0E	591	2267	F R	Wind turbine
	13308	MUNKFLOHÖGEN	633219.3N 0145713.1E	591	2320	F R	Wind turbine
	13309	MUNKFLOHÖGEN	633204.7N 0145746.1E	591	2359	F R	Wind turbine
	13310	MUNKFLOHÖGEN	633152.6N 0145820.9E	591	2349	F R	Wind turbine
	13311	MUNKFLOHÖGEN	633138.4N 0145810.7E	591	2359	FLG W	Wind turbine
	13312	MUNKFLOHÖGEN	633153.7N 0145903.7E	591	2283	F R	Wind turbine
	13313	MUNKFLOHÖGEN	633210.2N 0145845.4E	591	2306	F R	Wind turbine
	13314	MUNKFLOHÖGEN	633225.8N 0145912.2E	591	2270	F R	Wind turbine
	13315	MUNKFLOHÖGEN	633208.6N 0145942.6E	591	2290	FLG W	Wind turbine
	13317	MUNKFLOHÖGEN	633218.6N 0145801.4E	591	2326	F R	Wind turbine
	13318	MUNKFLOHÖGEN	633236.7N 0145744.6E	591	2300	F R	Wind turbine
	13319	MUNKFLOHÖGEN	633235.4N 0145832.8E	591	2287	F R	Wind turbine
	13320	MUNKFLOHÖGEN	633249.2N 0145853.9E	591	2241	F R	Wind turbine
	13321	MUNKFLOHÖGEN	633257.8N 0145930.7E	591	2182	FLG W	Wind turbine
	13322	MUNKFLOHÖGEN	633243.5N 0145949.2E	591	2224	F R	Wind turbine
	14822	RAFTSJÖHÖJDEN	633739.9N 0145959.5E	722	2283	FLG W	Wind turbine
	14823	RAFTSJÖHÖJDEN	633724.4N 0145939.2E	722	2313	FLG W	Wind turbine
63N 15E	484	STRÖMSUND	635151.6N 0153634.5E	663	1993	F R/FLG W	Mast
	737	STUGUN	631030.8N 0153511.3E	338	1600	F R	Mast
	8343	RAFTSHÖJDEN	633624.2N 0150203.0E	328	2106	F R	Wind turbine
	10296	RAFTSJÖHÖJDEN	633637.2N 0150215.1E	456	2145	FLG R	Wind turbine
	10297	RAFTSJÖHÖJDEN	633632.4N 0150246.6E	456	2196	FLG R	Wind turbine
	10298	RAFTSJÖHÖJDEN	633652.8N 0150230.5E	456	2098	FLG R	Wind turbine
	10299	RAFTSJÖHÖJDEN	633650.1N 0150307.5E	456	2107	FLG R	Wind turbine
	10300	RAFTSJÖHÖJDEN	633643.8N 0150405.4E	456	2110	FLG R	Wind turbine
	10301	RAFTSJÖHÖJDEN	633646.8N 0150438.9E	456	2113	FLG R	Wind turbine
	10993	STAMÅSEN	634042.1N 0154821.1E (*)	564	1837	FLG W	Wind turbine
	10994	STAMÅSEN	634037.8N 0154749.4E (*)	564	1818	F R	Wind turbine
	10995	STAMÅSEN	634025.2N 0154745.4E (*)	564	1834	F R	Wind turbine
	10996	STAMÅSEN	634017.5N 0154717.4E (*)	564	1916	F R	Wind turbine
	10997	STAMÅSEN	634013.0N 0154644.9E (*)	564	1824	FLG W	Wind turbine
	10998	STAMÅSEN	633952.9N 0154755.6E (*)	564	1959	F R	Wind turbine
	10999	STAMÅSEN	633940.3N 0154806.1E (*)	564	1998	F R	Wind turbine
	11000	STAMÅSEN	633930.1N 0154744.0E (*)	564	1952	FLG W	Wind turbine
	11001	STAMÅSEN	634003.8N 0154905.6E (*)	564	1886	FLG W	Wind turbine
	11002	STAMÅSEN	633946.9N 0154838.1E (*)	564	1949	F R	Wind turbine
	11003	STAMÅSEN	633931.3N 0154843.2E (*)	564	2014	F R	Wind turbine
	11004	STAMÅSEN	633920.0N 0154834.5E (*)	564	1972	F R	Wind turbine
	11005	STAMÅSEN	633944.2N 0154946.1E (*)	564	1906	F R	Wind turbine
	11006	STAMÅSEN	633921.8N 0154912.5E (*)	564	2018	F R	Wind turbine
	11007	STAMÅSEN	633907.8N 0154910.4E (*)	564	1988	F R	Wind turbine
	11008	STAMÅSEN	633854.8N 0154859.8E (*)	564	1909	F R	Wind turbine
	11009	STAMÅSEN	633847.1N 0154840.0E (*)	564	1959	FLG W	Wind turbine
	11010	STAMÅSEN	633942.3N 0155030.4E (*)	564	1909	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	11011	STAMÅSEN	633930.7N 0155011.1E (*)	564	1939	F R	Wind turbine
	11012	STAMÅSEN	633917.3N 0155045.3E (*)	564	1949	F R	Wind turbine
	11013	STAMÅSEN	633929.3N 0155134.4E (*)	564	1883	FLG W	Wind turbine
	11014	STAMÅSEN	633917.1N 0155127.6E (*)	564	1913	F R	Wind turbine
	11015	STAMÅSEN	633900.3N 0155109.9E (*)	564	1978	F R	Wind turbine
	11016	STAMÅSEN	633848.4N 0155104.5E (*)	564	1982	F R	Wind turbine
	11017	STAMÅSEN	633835.0N 0155119.3E (*)	564	1913	F R/FLG W	Wind turbine
	11569	BODMYREN	633125.3N 0155547.5E	367	1738	F R	Mast
	11717	STAMÅSEN	633837.4N 0155159.1E (*)	568	1939	F R/FLG W	Wind turbine
	11749	ÖGONFÄGNADEN	633146.8N 0155808.8E	564	1991	FLG W	Wind turbine
	11750	ÖGONFÄGNADEN	633134.2N 0155829.2E	564	2054	F R	Wind turbine
	11751	ÖGONFÄGNADEN	633117.3N 0155907.3E	564	2080	F R	Wind turbine
	11752	ÖGONFÄGNADEN	633058.2N 0155919.8E	564	2110	F R	Wind turbine
	11753	ÖGONFÄGNADEN	633050.2N 0155948.5E	564	2090	FLG W	Wind turbine
	11754	ÖGONFÄGNADEN	633119.3N 0155810.1E	564	2041	F R	Wind turbine
	11755	ÖGONFÄGNADEN	633047.8N 0155900.6E	564	2146	F R	Wind turbine
	11756	ÖGONFÄGNADEN	633037.9N 0155917.8E	564	2119	F R	Wind turbine
	11757	ÖGONFÄGNADEN	633151.9N 0155625.0E	564	1955	FLG W	Wind turbine
	11758	ÖGONFÄGNADEN	633123.8N 0155708.2E	564	2064	F R	Wind turbine
	11759	ÖGONFÄGNADEN	633057.0N 0155732.7E	564	2201	F R	Wind turbine
	11760	ÖGONFÄGNADEN	633122.2N 0155606.8E	564	2001	FLG W	Wind turbine
	11761	ÖGONFÄGNADEN	633114.3N 0155639.0E	564	2093	F R	Wind turbine
	11762	ÖGONFÄGNADEN	633058.0N 0155659.0E	564	2215	F R	Wind turbine
	11763	ÖGONFÄGNADEN	633045.2N 0155718.7E	564	2231	F R	Wind turbine
	11764	ÖGONFÄGNADEN	633101.9N 0155626.4E	564	2126	F R	Wind turbine
	11765	ÖGONFÄGNADEN	633046.5N 0155643.5E	564	2169	F R	Wind turbine
	11766	ÖGONFÄGNADEN	633029.2N 0155805.2E	564	2234	F R	Wind turbine
	11767	ÖGONFÄGNADEN	633033.7N 0155845.3E	564	2113	F R	Wind turbine
	11768	ÖGONFÄGNADEN	633030.0N 0155731.7E	564	2267	F R	Wind turbine
	11769	ÖGONFÄGNADEN	633030.2N 0155653.5E	564	2149	F R	Wind turbine
	11770	ÖGONFÄGNADEN	633012.1N 0155639.5E	564	2116	F R	Wind turbine
	11771	ÖGONFÄGNADEN	632958.9N 0155658.6E	564	2149	F R	Wind turbine
	11772	ÖGONFÄGNADEN	632959.4N 0155736.2E	564	2136	F R	Wind turbine
	11773	ÖGONFÄGNADEN	633001.3N 0155620.0E	564	2077	FLG W	Wind turbine
	11774	ÖGONFÄGNADEN	632944.7N 0155707.9E	564	2116	F R	Wind turbine
	11775	ÖGONFÄGNADEN	632935.6N 0155828.3E	564	2218	F R	Wind turbine
	11776	ÖGONFÄGNADEN	632932.6N 0155906.3E	564	2133	F R	Wind turbine
	11777	ÖGONFÄGNADEN	632927.6N 0155938.2E	564	2119	FLG W	Wind turbine
	11778	ÖGONFÄGNADEN	632929.5N 0155752.6E	564	2218	F R	Wind turbine
	11779	ÖGONFÄGNADEN	632923.7N 0155836.9E	564	2277	F R	Wind turbine
	11780	ÖGONFÄGNADEN	632913.1N 0155744.3E	564	2198	F R	Wind turbine
	11781	ÖGONFÄGNADEN	632901.5N 0155737.1E	564	2277	FLG W	Wind turbine
	12374	STAMÅSEN	633950.2N 0154739.2E (*)	394	1749	F R	Mast
	12902	KÅLARNE	630003.3N 0155428.8E	328	1926	F R	Mast
	13316	MUNKFLOHÖGEN	633223.2N 0150001.3E	591	2257	F R	Wind turbine
	13323	MUNKFLOHÖGEN	633236.4N 0150027.3E	591	2201	FLG W	Wind turbine
	13648	HAMMERDAL	633315.1N 0150311.0E	591	2087	FLG W	Wind turbine
	13649	HAMMERDAL	633302.0N 0150241.1E	591	2123	F R	Wind turbine
	13650	HAMMERDAL	633300.5N 0150356.4E	591	2123	F R	Wind turbine
	13651	HAMMERDAL	633244.5N 0150222.8E	591	2146	FLG W	Wind turbine
	13652	HAMMERDAL	633249.6N 0150319.6E	591	2188	F R	Wind turbine
	13653	HAMMERDAL	633241.9N 0150404.9E	591	2165	F R	Wind turbine
	13654	HAMMERDAL	633232.4N 0150307.9E	591	2178	F R	Wind turbine
	13655	HAMMERDAL	633224.1N 0150355.6E	591	2188	F R	Wind turbine
	13656	HAMMERDAL	633312.3N 0150558.5E	591	2083	FLG W	Wind turbine
	13657	HAMMERDAL	633256.3N 0150534.9E	591	2152	F R	Wind turbine
	13658	HAMMERDAL	633256.9N 0150622.2E	591	2146	F R	Wind turbine
	13659	HAMMERDAL	633236.9N 0150531.0E	591	2218	F R	Wind turbine
	13660	HAMMERDAL	633238.5N 0150618.6E	591	2228	F R	Wind turbine
	13661	HAMMERDAL	633219.2N 0150521.1E	591	2238	F R	Wind turbine
	13662	HAMMERDAL	633217.6N 0150616.8E	591	2224	F R	Wind turbine
	13663	HAMMERDAL	633202.7N 0150457.7E	591	2228	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13664	HAMMERDAL	633201.8N 0150546.1E	591	2267	F R	Wind turbine
	13665	HAMMERDAL	633151.0N 0150621.7E	591	2290	F R	Wind turbine
	13666	HAMMERDAL	633147.6N 0150431.5E	591	2172	FLG W	Wind turbine
	13667	HAMMERDAL	633145.2N 0150516.1E	591	2274	F R	Wind turbine
	13668	HAMMERDAL	633135.1N 0150600.9E	591	2231	FLG W	Wind turbine
	13669	HAMMERDAL	633410.6N 0151008.2E	591	1972	FLG W	Wind turbine
	13670	HAMMERDAL	633353.8N 0150945.5E	591	2051	F R	Wind turbine
	13671	HAMMERDAL	633356.6N 0151051.6E	591	2031	F R	Wind turbine
	13672	HAMMERDAL	633336.1N 0150927.6E	591	2054	F R	Wind turbine
	13673	HAMMERDAL	633340.3N 0151031.9E	591	2080	F R	Wind turbine
	13674	HAMMERDAL	633335.1N 0151121.7E	591	2060	FLG W	Wind turbine
	13675	HAMMERDAL	633321.9N 0150856.7E	591	2057	FLG W	Wind turbine
	13676	HAMMERDAL	633324.5N 0151010.3E	591	2080	F R	Wind turbine
	13677	HAMMERDAL	633303.9N 0150916.2E	591	2073	F R	Wind turbine
	13678	HAMMERDAL	633248.7N 0150852.7E	591	2080	F R	Wind turbine
	13679	HAMMERDAL	633154.6N 0150953.7E	591	2142	F R	Wind turbine
	13680	HAMMERDAL	633139.0N 0150917.8E	591	2254	F R	Wind turbine
	13681	HAMMERDAL	633126.9N 0150840.1E	591	2201	F R	Wind turbine
	13682	HAMMERDAL	633108.4N 0150856.7E	591	2211	FLG W	Wind turbine
	13683	HAMMERDAL	633120.9N 0150935.1E	591	2293	F R	Wind turbine
	13684	HAMMERDAL	633107.2N 0151002.9E	591	2188	F R	Wind turbine
	13685	HAMMERDAL	633053.6N 0150931.6E	591	2172	F R	Wind turbine
	13686	HAMMERDAL	633051.7N 0151026.2E	591	2133	F R	Wind turbine
	13687	HAMMERDAL	633034.3N 0151022.8E	591	2110	FLG W	Wind turbine
	13688	HAMMERDAL	633052.6N 0151148.7E	591	2037	F R	Wind turbine
	13689	HAMMERDAL	633208.8N 0151023.7E	591	2146	F R	Wind turbine
	13690	HAMMERDAL	633223.2N 0151052.4E	591	2126	F R	Wind turbine
	13691	HAMMERDAL	633234.0N 0151127.8E	591	2100	F R	Wind turbine
	13692	HAMMERDAL	633242.0N 0151210.9E	591	2031	F R	Wind turbine
	13693	HAMMERDAL	633204.6N 0151116.5E	591	2133	F R	Wind turbine
	13694	HAMMERDAL	633152.5N 0151049.6E	591	2165	F R	Wind turbine
	13695	HAMMERDAL	633143.4N 0151131.1E	591	2110	F R	Wind turbine
	13696	HAMMERDAL	633126.3N 0151119.3E	591	2100	F R	Wind turbine
	13697	HAMMERDAL	633110.2N 0151144.4E	591	2060	F R	Wind turbine
	13698	HAMMERDAL	633157.7N 0151236.2E	591	2083	F R	Wind turbine
	13699	HAMMERDAL	633213.4N 0151315.7E	591	2106	F R	Wind turbine
	13700	HAMMERDAL	633222.2N 0151359.0E	591	2047	FLG W	Wind turbine
	13701	HAMMERDAL	633203.5N 0151400.4E	591	2080	F R	Wind turbine
	13702	HAMMERDAL	633154.9N 0151322.1E	591	2146	F R	Wind turbine
	13703	HAMMERDAL	633140.4N 0151255.3E	591	2136	F R	Wind turbine
	13704	HAMMERDAL	633141.5N 0151356.7E	591	2133	F R	Wind turbine
	13705	HAMMERDAL	633127.4N 0151330.9E	591	2087	F R	Wind turbine
	13706	HAMMERDAL	633115.0N 0151300.9E	591	2070	F R	Wind turbine
	13707	HAMMERDAL	633113.2N 0151406.7E	591	2021	FLG W	Wind turbine
	13708	HAMMERDAL	633100.4N 0151334.4E	591	2021	FLG W	Wind turbine
	13709	HAMMERDAL	632800.5N 0150310.7E	591	2093	FLG W	Wind turbine
	13710	HAMMERDAL	632741.4N 0150302.0E	591	2185	F R	Wind turbine
	13711	HAMMERDAL	632745.6N 0150344.2E	591	2119	F R	Wind turbine
	13712	HAMMERDAL	632723.0N 0150315.2E	591	2188	FLG W	Wind turbine
	13713	HAMMERDAL	632724.2N 0150404.8E	591	2123	F R	Wind turbine
	13714	HAMMERDAL	632705.7N 0150340.0E	591	2126	F R	Wind turbine
	13715	HAMMERDAL	632709.1N 0150428.6E	591	2110	FLG W	Wind turbine
	13716	HAMMERDAL	632646.0N 0150332.1E	591	2064	FLG W	Wind turbine
	13717	HAMMERDAL	632828.9N 0150522.7E	591	2182	FLG W	Wind turbine
	13718	HAMMERDAL	632819.2N 0150441.4E	591	2149	F R	Wind turbine
	13719	HAMMERDAL	632809.2N 0150540.2E	591	2139	F R	Wind turbine
	13720	HAMMERDAL	632747.1N 0150611.6E	591	2113	FLG W	Wind turbine
	13721	HAMMERDAL	632842.4N 0150924.9E	591	2142	FLG W	Wind turbine
	13722	HAMMERDAL	632824.7N 0150927.6E	591	2146	F R	Wind turbine
	13723	HAMMERDAL	632814.7N 0150850.2E	591	2162	F R	Wind turbine
	13724	HAMMERDAL	632805.4N 0150955.4E	591	2119	F R	Wind turbine
	13725	HAMMERDAL	632757.5N 0150911.2E	591	2146	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13726	HAMMERDAL	632746.1N 0150959.2E	591	2116	FLG W	Wind turbine
	13727	HAMMERDAL	632738.4N 0150920.4E	591	2100	FLG W	Wind turbine
	14212	BJÖRKVATTNET	632434.6N 0155931.2E	722	2320	F R	Wind turbine
	14213	BJÖRKVATTNET	632450.8N 0155928.5E	722	2339	FLG W	Wind turbine
	14217	BJÖRKVATTNET	632443.2N 0155901.5E	722	2300	FLG W	Wind turbine
	14222	BJÖRKVATTNET	632505.2N 0155912.0E	722	2316	F R	Wind turbine
	14225	BJÖRKVATTNET	632511.6N 0155956.9E	722	2329	F R	Wind turbine
	14226	BJÖRKVATTNET	632518.4N 0155911.1E	722	2323	F R	Wind turbine
	14227	BJÖRKVATTNET	632528.2N 0155952.3E	722	2369	F R	Wind turbine
	14228	BJÖRKVATTNET	632531.1N 0155906.9E	722	2356	FLG W	Wind turbine
	14232	BJÖRKVATTNET	632547.1N 0155905.1E	722	2411	F R	Wind turbine
	14233	BJÖRKVATTNET	632543.6N 0155948.6E	722	2438	FLG W	Wind turbine
	14234	BJÖRKVATTNET	632557.1N 0155957.2E	722	2425	F R	Wind turbine
	14236	BJÖRKVATTNET	632602.5N 0155837.1E	722	2349	FLG W	Wind turbine
	14237	BJÖRKVATTNET	632559.3N 0155922.2E	722	2408	F R	Wind turbine
	14238	BJÖRKVATTNET	632615.1N 0155850.3E	722	2336	FLG W	Wind turbine
	14691	HAMMERDAL	633138.0N 0150445.5E	367	1972	F R	Mast
	14818	RAFTSJÖHÖJDEN	633834.6N 0150355.3E	722	2162	FLG W	Wind turbine
	14819	RAFTSJÖHÖJDEN	633834.0N 0150313.6E	722	2247	F R	Wind turbine
	14820	RAFTSJÖHÖJDEN	633820.3N 0150235.0E	722	2270	F R	Wind turbine
	14821	RAFTSJÖHÖJDEN	633814.3N 0150152.3E	722	2238	FLG W	Wind turbine
	14824	RAFTSJÖHÖJDEN	633721.7N 0150033.9E	722	2339	F R	Wind turbine
	14825	RAFTSJÖHÖJDEN	633735.3N 0150224.3E	722	2270	F R	Wind turbine
	14826	RAFTSJÖHÖJDEN	633709.4N 0150231.0E	722	2316	F R	Wind turbine
	14827	RAFTSJÖHÖJDEN	633645.8N 0150143.6E	722	2402	FLG W	Wind turbine
	14828	RAFTSJÖHÖJDEN	633626.6N 0150407.7E	722	2352	FLG W	Wind turbine
	15630	HOCKSJÖN	632729.8N 0155843.0E	753	2410	FLG W	Wind turbine
	15631	HOCKSJÖN	632712.9N 0155851.6E	753	2242	F R	Wind turbine
	15813	STORBRÄNNKULLEN	632912.9N 0155840.1E	620	2282	FLG W	Wind turbine
	15814	STORBRÄNNKULLEN	632900.5N 0155833.2E	620	2315	F R	Wind turbine
	15815	STORBRÄNNKULLEN	632851.0N 0155754.8E	620	2373	FLG W	Wind turbine
	15816	STORBRÄNNKULLEN	632849.2N 0155831.0E	620	2328	F R	Wind turbine
	15817	STORBRÄNNKULLEN	632838.3N 0155755.6E	620	2235	F R	Wind turbine
	15818	STORBRÄNNKULLEN	632824.5N 0155811.6E	620	2211	F R	Wind turbine
	15819	STORBRÄNNKULLEN	632808.1N 0155808.7E	620	2179	F R	Wind turbine
	15820	STORBRÄNNKULLEN	632753.4N 0155813.1E	620	2161	FLG W	Wind turbine
	15821	STORBRÄNNKULLEN	632747.5N 0155837.2E	620	2189	F R	Wind turbine
	15822	STORBRÄNNKULLEN	632746.7N 0155913.7E	620	2180	FLG W	Wind turbine
63N 16E	486	RAMSELE	633554.2N 0162446.9E	351	1462	F R	Mast
	10374	BACKE	634545.1N 0163009.4E	492	1542	FLG R	Wind turbine
	10375	BACKE	634538.4N 0163035.1E	492	1529	FLG R	Wind turbine
	11596	BJÖRKHÖJDEN	632457.8N 0160713.3E	367	2067	F R	Mast
	11785	RENSJÖN	632820.2N 0160612.1E	564	2034	FLG W	Wind turbine
	11786	RENSJÖN	632813.6N 0160645.7E	564	1995	F R	Wind turbine
	11787	RENSJÖN	632820.4N 0160715.2E	564	2018	FLG W	Wind turbine
	11788	RENSJÖN	632756.9N 0160714.9E	564	2051	F R	Wind turbine
	11789	RENSJÖN	632749.8N 0160748.1E	564	2116	F R	Wind turbine
	11790	RENSJÖN	632746.0N 0160622.1E	564	2103	F R	Wind turbine
	11791	RENSJÖN	632738.5N 0160703.6E	564	2123	F R	Wind turbine
	11792	RENSJÖN	632732.1N 0160628.2E	564	2103	FLG W	Wind turbine
	11793	RENSJÖN	632719.9N 0160649.9E	564	2090	F R	Wind turbine
	11794	RENSJÖN	632707.0N 0160701.7E	564	2057	F R	Wind turbine
	11795	RENSJÖN	632722.0N 0160818.3E	564	2028	FLG W	Wind turbine
	11796	RENSJÖN	632716.3N 0160851.0E	564	2096	F R	Wind turbine
	11797	RENSJÖN	632710.7N 0160923.6E	564	1965	F R	Wind turbine
	11798	RENSJÖN	632654.9N 0160934.2E	564	2034	FLG W	Wind turbine
	11799	RENSJÖN	632705.4N 0160817.7E	564	2073	F R	Wind turbine
	11800	RENSJÖN	632657.2N 0160753.8E	564	2139	F R	Wind turbine
	11801	RENSJÖN	632650.9N 0160826.9E	564	2054	F R	Wind turbine
	11802	RENSJÖN	632634.9N 0160834.1E	564	2070	F R	Wind turbine
	11803	RENSJÖN	632621.3N 0160847.8E	564	2070	F R	Wind turbine
	11804	RENSJÖN	632621.5N 0160659.6E	564	2073	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	11805	RENSJÖN	632606.0N 0160703.0E	564	2139	F R	Wind turbine
	11806	RENSJÖN	632559.0N 0160631.2E	564	2156	FLG W	Wind turbine
	11807	RENSJÖN	632541.6N 0160738.5E	564	2195	F R	Wind turbine
	11808	RENSJÖN	632516.3N 0160824.3E	564	2385	F R	Wind turbine
	11809	RENSJÖN	632522.3N 0160850.7E	564	2215	F R	Wind turbine
	11810	RENSJÖN	632506.3N 0161148.7E	564	2208	FLG W	Wind turbine
	11811	RENSJÖN	632448.7N 0161204.4E	564	2244	F R	Wind turbine
	11812	RENSJÖN	632432.1N 0161216.4E	564	2218	F R	Wind turbine
	11813	RENSJÖN	632420.5N 0161242.0E	564	2126	F R	Wind turbine
	11814	RENSJÖN	632402.5N 0161307.3E	564	2142	F R	Wind turbine
	11815	RENSJÖN	632355.5N 0161341.4E	564	2123	FLG W	Wind turbine
	11816	RENSJÖN	632423.3N 0161153.7E	564	2313	F R	Wind turbine
	11817	RENSJÖN	632511.3N 0160925.1E	564	2280	F R	Wind turbine
	11818	RENSJÖN	632505.1N 0160805.0E	564	2280	F R	Wind turbine
	12317	RENSJÖN	632557.7N 0160733.9E	564	2139	F R	Wind turbine
	12318	RENSJÖN	632548.8N 0160658.5E	564	2139	F R	Wind turbine
	12319	RENSJÖN	632519.1N 0160750.8E	564	2303	F R	Wind turbine
	12320	RENSJÖN	632511.0N 0161043.4E	564	2133	F R	Wind turbine
	12321	RENSJÖN	632457.2N 0161108.2E	564	2267	F R	Wind turbine
	12322	RENSJÖN	632443.3N 0161119.6E	564	2306	F R	Wind turbine
	12323	RENSJÖN	632406.1N 0161151.4E	564	2270	F R	Wind turbine
	12324	RENSJÖN	632350.1N 0161153.9E	564	2247	F R	Wind turbine
	12325	RENSJÖN	632337.8N 0161238.0E	564	2231	F R	Wind turbine
	12326	RENSJÖN	632328.2N 0161306.8E	564	2159	F R	Wind turbine
	12327	RENSJÖN	632304.2N 0161346.8E	564	2073	F R	Wind turbine
	12328	RENSJÖN	632454.9N 0161034.4E	564	2201	F R	Wind turbine
	12329	RENSJÖN	632439.4N 0161049.0E	564	2228	F R	Wind turbine
	12330	RENSJÖN	632425.2N 0161056.1E	564	2260	F R	Wind turbine
	12331	RENSJÖN	632407.8N 0161115.5E	564	2251	F R	Wind turbine
	12332	RENSJÖN	632352.9N 0161113.8E	564	2260	F R	Wind turbine
	12333	RENSJÖN	632337.7N 0161140.5E	564	2379	F R	Wind turbine
	12334	RENSJÖN	632325.7N 0161205.8E	564	2238	F R	Wind turbine
	12335	RENSJÖN	632457.6N 0160933.1E	564	2224	F R	Wind turbine
	12336	RENSJÖN	632425.5N 0161010.8E	564	2293	F R	Wind turbine
	12337	RENSJÖN	632333.6N 0161102.9E	564	2310	F R	Wind turbine
	12338	RENSJÖN	632324.8N 0161133.2E	564	2244	F R	Wind turbine
	12339	RENSJÖN	632307.3N 0161211.0E	564	2211	F R	Wind turbine
	12340	RENSJÖN	632445.5N 0160853.2E	564	2274	F R	Wind turbine
	12341	RENSJÖN	632433.8N 0160922.5E	564	2293	F R	Wind turbine
	12342	RENSJÖN	632419.1N 0160938.5E	564	2382	F R	Wind turbine
	12343	RENSJÖN	632405.9N 0160957.5E	564	2323	F R	Wind turbine
	12344	RENSJÖN	632350.6N 0161028.6E	564	2323	F R	Wind turbine
	12345	RENSJÖN	632335.9N 0161021.8E	564	2346	F R	Wind turbine
	12346	RENSJÖN	632318.8N 0161056.3E	564	2356	F R	Wind turbine
	12347	RENSJÖN	632308.2N 0161136.5E	564	2201	F R	Wind turbine
	12348	RENSJÖN	632250.6N 0161206.1E	564	2175	F R	Wind turbine
	12349	RENSJÖN	632250.3N 0161343.5E	564	2110	F R	Wind turbine
	12350	RENSJÖN	632234.8N 0161358.0E	564	2123	FLG W	Wind turbine
	12351	RENSJÖN	632447.7N 0160817.7E	564	2277	F R	Wind turbine
	12352	RENSJÖN	632417.4N 0160901.2E	564	2385	F R	Wind turbine
	12353	RENSJÖN	632402.7N 0160848.7E	564	2356	F R	Wind turbine
	12354	RENSJÖN	632404.9N 0160923.1E	564	2369	F R	Wind turbine
	12355	RENSJÖN	632351.9N 0160943.4E	564	2297	F R	Wind turbine
	12356	RENSJÖN	632336.7N 0160946.6E	564	2274	F R	Wind turbine
	12357	RENSJÖN	632309.0N 0161023.1E	564	2178	F R	Wind turbine
	12358	RENSJÖN	632249.6N 0161028.2E	564	2172	F R	Wind turbine
	12359	RENSJÖN	632256.7N 0161059.9E	564	2172	F R	Wind turbine
	12360	RENSJÖN	632241.7N 0161141.7E	564	2146	F R	Wind turbine
	12361	RENSJÖN	632234.3N 0161215.1E	564	2142	F R	Wind turbine
	12362	RENSJÖN	632244.9N 0161306.8E	564	2119	F R	Wind turbine
	12363	RENSJÖN	632509.3N 0160723.3E	564	2280	F R	Wind turbine
	12364	RENSJÖN	632453.8N 0160727.3E	564	2274	FLG W	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	12365	RENSJÖN	632423.4N 0160738.3E	564	2320	F R	Wind turbine
	12366	RENSJÖN	632415.2N 0160807.5E	564	2316	F R	Wind turbine
	12367	RENSJÖN	632402.0N 0160754.3E	564	2333	FLG W	Wind turbine
	12368	RENSJÖN	632229.0N 0161020.5E	564	2165	FLG W	Wind turbine
	12369	RENSJÖN	632215.8N 0161040.1E	564	2119	F R	Wind turbine
	12370	RENSJÖN	632218.2N 0161114.1E	564	2133	F R	Wind turbine
	12371	RENSJÖN	632204.1N 0161129.8E	564	2129	F R	Wind turbine
	12372	RENSJÖN	632201.3N 0161203.6E	564	2090	FLG W	Wind turbine
	12898	KRÄNGEDE	630621.6N 0160317.6E	328	1867	F R	Mast
	14206	BJÖRKVATTNET	632358.1N 0160058.0E	722	2470	FLG W	Wind turbine
	14207	BJÖRKVATTNET	632404.2N 0160132.1E	722	2398	F R	Wind turbine
	14208	BJÖRKVATTNET	632412.6N 0160159.7E	722	2428	F R	Wind turbine
	14209	BJÖRKVATTNET	632426.3N 0160240.0E	722	2349	F R	Wind turbine
	14210	BJÖRKVATTNET	632414.3N 0160232.8E	722	2392	FLG W	Wind turbine
	14211	BJÖRKVATTNET	632423.0N 0160026.7E	722	2363	F R	Wind turbine
	14214	BJÖRKVATTNET	632433.8N 0160043.2E	722	2375	F R	Wind turbine
	14215	BJÖRKVATTNET	632429.9N 0160152.0E	722	2402	FLG W	Wind turbine
	14216	BJÖRKVATTNET	632440.9N 0160206.7E	722	2310	F R	Wind turbine
	14218	BJÖRKVATTNET	632443.9N 0160120.5E	722	2362	F R	Wind turbine
	14219	BJÖRKVATTNET	632520.1N 0160110.9E	722	2369	F R	Wind turbine
	14220	BJÖRKVATTNET	632457.7N 0160006.8E	722	2339	F R	Wind turbine
	14221	BJÖRKVATTNET	632425.3N 0160118.4E	722	2392	F R	Wind turbine
	14223	BJÖRKVATTNET	632506.7N 0160151.4E	722	2270	FLG W	Wind turbine
	14224	BJÖRKVATTNET	632505.0N 0160103.5E	722	2398	FLG W	Wind turbine
	14229	BJÖRKVATTNET	632543.7N 0160113.4E	722	2297	FLG W	Wind turbine
	14230	BJÖRKVATTNET	632546.0N 0160037.8E	722	2343	F R	Wind turbine
	14231	BJÖRKVATTNET	632410.5N 0160017.0E	722	2382	F R	Wind turbine
	14235	BJÖRKVATTNET	632356.2N 0160020.2E	722	2431	FLG W	Wind turbine
	15632	HOCKSJÖN	632715.9N 0160017.2E	753	2341	F R	Wind turbine
	15633	HOCKSJÖN	632650.1N 0160001.7E	753	2302	FLG W	Wind turbine
	15634	HOCKSJÖN	632637.0N 0160021.3E	753	2252	F R	Wind turbine
	15635	HOCKSJÖN	632704.6N 0160122.5E	753	2295	F R	Wind turbine
	15636	HOCKSJÖN	632649.3N 0160203.4E	753	2384	F R	Wind turbine
	15637	HOCKSJÖN	632638.5N 0160119.7E	753	2098	F R	Wind turbine
	15638	HOCKSJÖN	632618.4N 0160136.9E	753	2154	FLG W	Wind turbine
	15639	HOCKSJÖN	632722.4N 0160146.7E	753	2055	FLG W	Wind turbine
	15640	HOCKSJÖN	632717.0N 0160303.7E	753	2141	F R	Wind turbine
	15641	HOCKSJÖN	632713.9N 0160421.1E	753	2190	F R	Wind turbine
	15642	HOCKSJÖN	632652.0N 0160457.4E	753	2285	FLG W	Wind turbine
	15643	HOCKSJÖN	632710.9N 0160508.5E	753	2285	F R	Wind turbine
	15644	HOCKSJÖN	632656.6N 0160548.9E	753	2203	FLG W	Wind turbine
	15645	HOCKSJÖN	632726.5N 0160448.3E	753	2288	F R	Wind turbine
	15646	HOCKSJÖN	632743.2N 0160531.7E	753	2226	FLG W	Wind turbine
	15647	HOCKSJÖN	632729.6N 0160548.2E	753	2318	F R	Wind turbine
	15648	HOCKSJÖN	632754.7N 0160439.7E	753	2249	F R	Wind turbine
	15649	HOCKSJÖN	632809.7N 0160518.7E	753	2190	F R	Wind turbine
	15650	HOCKSJÖN	632823.2N 0160532.7E	753	2160	FLG W	Wind turbine
	15651	HOCKSJÖN	632811.1N 0160413.2E	753	2175	F R	Wind turbine
	15652	HOCKSJÖN	632823.7N 0160342.5E	753	2016	FLG W	Wind turbine
	17236	RAMSELE	633114.6N 0163401.9E	656	2032	FLG W	Wind turbine
	17237	RAMSELE	633049.8N 0163440.8E	656	2059	F R	Wind turbine
	17238	RAMSELE	633046.7N 0163404.1E	656	1980	F R	Wind turbine
	17239	RAMSELE	633018.0N 0163427.6E	656	1949	FLG W	Wind turbine
	17240	RAMSELE	633005.3N 0163507.0E	656	1962	FLG W	Wind turbine
	17241	RAMSELE	633021.6N 0163512.3E	656	2060	F R	Wind turbine
	17242	RAMSELE	633121.6N 0163543.2E	656	2093	F R	Wind turbine
	17243	RAMSELE	633059.7N 0163500.0E	656	2119	F R	Wind turbine
	17244	RAMSELE	633047.1N 0163550.8E	656	2063	F R	Wind turbine
	17245	RAMSELE	633033.3N 0163540.8E	656	2001	F R	Wind turbine
	17246	RAMSELE	633119.3N 0163751.6E	656	1892	F R	Wind turbine
	17247	RAMSELE	633107.3N 0163821.1E	656	1831	F R	Wind turbine
	17248	RAMSELE	633054.2N 0163820.1E	656	1764	FLG W	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	17249	RAMSELE	633207.0N 0163713.0E	656	1907	F R	Wind turbine
	17250	RAMSELE	633205.6N 0163754.5E	656	1909	F R	Wind turbine
	17251	RAMSELE	633149.1N 0163827.6E	656	1978	F R	Wind turbine
	17252	RAMSELE	633202.0N 0163843.4E	656	1856	FLG W	Wind turbine
	17253	RAMSELE	633244.1N 0163707.6E	656	1817	F R	Wind turbine
	17254	RAMSELE	633231.3N 0163554.8E	656	1802	FLG W	Wind turbine
	17255	RAMSELE	633257.1N 0163738.3E	656	1787	FLG W	Wind turbine
	17256	RAMSELE	633311.3N 0163706.4E	656	1850	F R	Wind turbine
	17257	RAMSELE	633259.8N 0163625.1E	656	1830	F R	Wind turbine
	17258	RAMSELE	633248.0N 0163600.9E	656	1822	F R	Wind turbine
	17259	RAMSELE	633311.8N 0163529.5E	656	1847	FLG W	Wind turbine
	17260	RAMSELE	633320.3N 0163600.8E	656	1814	FLG W	Wind turbine
	17261	NÄSAKER	632408.7N 0164602.2E	656	1722	FLG W	Wind turbine
	17262	NÄSAKER	632428.0N 0164645.9E	656	1777	F R	Wind turbine
	17263	NÄSAKER	632442.6N 0164554.9E	656	1687	F R	Wind turbine
	17264	NÄSAKER	632454.0N 0164617.7E	656	1748	FLG W	Wind turbine
	17265	NÄSAKER	632408.8N 0164639.1E	656	1803	F R	Wind turbine
	17266	NÄSAKER	632330.1N 0164716.2E	656	1844	F R	Wind turbine
	17267	NÄSAKER	632322.2N 0164653.1E	656	1821	F R	Wind turbine
	17268	NÄSAKER	632309.2N 0164753.4E	656	1767	FLG W	Wind turbine
	17269	NÄSAKER	632338.2N 0164611.4E	656	1756	FLG W	Wind turbine
	17270	NÄSAKER	632332.6N 0164816.9E	656	1746	F R	Wind turbine
	17271	NÄSAKER	632355.1N 0164740.0E	656	1747	F R	Wind turbine
	17272	NÄSAKER	632358.4N 0164850.3E	656	1687	FLG W	Wind turbine
	17273	NÄSAKER	632419.0N 0164802.8E	656	1726	F R	Wind turbine
	17274	NÄSAKER	632444.1N 0164714.7E	656	1741	FLG W	Wind turbine
63N 17E	494	SOLLEFTEÅ/MULTRÅ	631511.0N 0172704.1E	948	2234	FLG W	Mast
	497	LÄNGSELE	631236.8N 0170350.9E	354	1306	F R	Mast
	4764	SOLLEFTEÅ/MULTRÅ	631510.2N 0172703.3E	351	1636	-	Mast
	10800	TRATTBERGET	634834.6N 0172215.7E	574	2182	FLG R	Wind turbine
	10801	TRATTBERGET	634822.1N 0172217.2E	492	2116	FLG R	Wind turbine
	10802	TRATTBERGET	634840.1N 0172246.9E	492	2103	FLG R	Wind turbine
	10803	TRATTBERGET	634826.0N 0172243.6E	492	2146	FLG R	Wind turbine
	10804	TRATTBERGET	634833.1N 0172323.4E	492	2172	FLG R	Wind turbine
	10805	TRATTBERGET	634818.6N 0172318.0E	492	2208	FLG R	Wind turbine
	10806	TRATTBERGET	634839.7N 0172352.5E	492	2178	FLG R	Wind turbine
	10807	TRATTBERGET	634825.7N 0172347.3E	492	2257	FLG R	Wind turbine
	10808	TRATTBERGET	634810.6N 0172344.3E	492	2228	FLG R	Wind turbine
	10809	TRATTBERGET	634831.8N 0172413.9E	492	2260	FLG R	Wind turbine
	10810	TRATTBERGET	634817.3N 0172414.4E	492	2274	FLG R	Wind turbine
	10811	TRATTBERGET	634803.2N 0172412.8E	492	2211	FLG R	Wind turbine
	10812	TRATTBERGET	634827.2N 0172445.6E	492	2224	FLG R	Wind turbine
	10813	TRATTBERGET	634813.9N 0172448.4E	492	2260	FLG R	Wind turbine
	10814	TRATTBERGET	634753.3N 0172436.7E	492	2198	FLG R	Wind turbine
	10815	TRATTBERGET	634819.5N 0172514.2E	492	2208	FLG R	Wind turbine
	10816	TRATTBERGET	634802.8N 0172516.9E	492	2198	FLG R	Wind turbine
	10817	TRATTBERGET	634811.0N 0172540.9E	492	2182	FLG R	Wind turbine
	10818	TRATTBERGET	634757.3N 0172559.5E	492	2172	FLG R	Wind turbine
	10819	TRATTBERGET	634727.5N 0172323.8E	492	2142	FLG R	Wind turbine
	10820	TRATTBERGET	634714.7N 0172309.5E	492	2100	FLG R	Wind turbine
	10821	TRATTBERGET	634730.8N 0172355.1E	492	2139	FLG R	Wind turbine
	10822	TRATTBERGET	634715.7N 0172341.1E	492	2162	FLG R	Wind turbine
	10823	TRATTBERGET	634724.5N 0172424.5E	492	2152	FLG R	Wind turbine
	10824	TRATTBERGET	634711.1N 0172412.5E	492	2133	FLG R	Wind turbine
	10825	TRATTBERGET	634826.5N 0172145.7E	492	2103	FLG R	Wind turbine
	10826	TRATTBERGET	634751.0N 0172533.2E	492	2104	FLG R	Wind turbine
	10827	TRATTBERGET	634803.9N 0172313.0E	492	2096	FLG R	Wind turbine
	10828	TRATTBERGET	634712.8N 0172443.4E	492	2060	FLG R	Wind turbine
	10829	TRATTBERGET	634713.3N 0172237.9E	492	2023	FLG R	Wind turbine
	11526	SIDENSJÖ	631502.8N 0175839.8E	384	1572	F R	Mast
	12159	SIDENSJÖ	631458.3N 0175857.1E	564	1736	FLG W	Wind turbine
	12160	SIDENSJÖ	631511.3N 0175936.1E	564	1732	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	12161	SIDENSJÖ	631525.6N 0175912.0E	564	1768	FLG W	Wind turbine
	12473	RÖDSTAHÖJDEN	630628.1N 0170950.0E	492	1736	FLG R	Wind turbine
	12474	RÖDSTAHÖJDEN	630625.1N 0170912.6E	492	1716	FLG R	Wind turbine
	12475	RÖDSTAHÖJDEN	630607.1N 0170922.8E	492	1752	FLG R	Wind turbine
	12476	RÖDSTAHÖJDEN	630546.0N 0170816.2E	492	1739	FLG R	Wind turbine
	12477	RÖDSTAHÖJDEN	630550.0N 0170904.5E	492	1791	FLG R	Wind turbine
	12478	RÖDSTAHÖJDEN	630540.7N 0170940.7E	558	1860	FLG R	Wind turbine
	12958	HOLMTRÄSK	635402.8N 0172401.2E	591	1979	FLG W	Wind turbine
	12959	HOLMTRÄSK	635406.0N 0172445.0E	591	2060	F R	Wind turbine
	12960	HOLMTRÄSK	635356.4N 0172534.5E	591	2065	FLG W	Wind turbine
	12961	HOLMTRÄSK	635347.0N 0172452.3E	591	2128	F R	Wind turbine
	12962	HOLMTRÄSK	635331.0N 0172519.5E	591	2179	FLG W	Wind turbine
	12963	HOLMTRÄSK	635302.9N 0172620.9E	591	2261	F R	Wind turbine
	12964	HOLMTRÄSK	635316.4N 0172553.6E	591	2208	F R	Wind turbine
	12965	HOLMTRÄSK	635327.5N 0172639.4E	591	2214	F R	Wind turbine
	12966	HOLMTRÄSK	635234.3N 0172710.2E	591	2283	FLG W	Wind turbine
	12967	HOLMTRÄSK	635300.2N 0172703.6E	591	2349	F R	Wind turbine
	12968	HOLMTRÄSK	635248.6N 0172732.8E	591	2420	F R	Wind turbine
	12969	HOLMTRÄSK	635235.2N 0172756.4E	591	2323	F R	Wind turbine
	12970	HOLMTRÄSK	635244.5N 0172831.9E	591	2203	F R	Wind turbine
	12971	HOLMTRÄSK	635230.5N 0172902.5E	591	2229	F R	Wind turbine
	12972	HOLMTRÄSK	635209.9N 0172821.1E	591	2266	FLG W	Wind turbine
	12973	HOLMTRÄSK	635212.3N 0172912.0E	591	2333	F R	Wind turbine
	12974	HOLMTRÄSK	635200.4N 0172943.6E	591	2233	F R	Wind turbine
	12975	HOLMTRÄSK	635140.5N 0173014.3E	591	2134	FLG W	Wind turbine
	12976	HOLMTRÄSK	635341.5N 0172756.5E	591	2042	FLG W	Wind turbine
	12977	HOLMTRÄSK	635315.0N 0172910.1E	591	2152	F R	Wind turbine
	12978	HOLMTRÄSK	635302.9N 0172941.3E	591	2280	FLG W	Wind turbine
	12979	HOLMTRÄSK	635248.2N 0173003.1E	591	2211	FLG W	Wind turbine
	13638	STIGSHÖJDEN	631306.1N 0175920.5E	492	1772	FLG R	Wind turbine
	13639	STIGSHÖJDEN	631316.4N 0175848.7E	492	1857	FLG R	Wind turbine
	13640	STIGSHÖJDEN	631330.4N 0175815.7E	492	1873	FLG R	Wind turbine
	13641	STIGSHÖJDEN	631328.2N 0175944.1E	492	1729	FLG R	Wind turbine
	13642	STIGSHÖJDEN	631334.3N 0175913.6E	492	1814	FLG R	Wind turbine
	13643	STIGSHÖJDEN	631344.6N 0175842.1E	492	1880	FLG R	Wind turbine
	15026	BLACKFJÄLLET	635330.9N 0175936.6E	656	1919	FLG W	Wind turbine
	15028	BLACKFJÄLLET	635354.5N 0175847.3E	656	1930	FLG W	Wind turbine
	15029	BLACKFJÄLLET	635401.5N 0175655.2E	656	2019	FLG W	Wind turbine
	15030	BLACKFJÄLLET	635341.9N 0175656.5E	656	2067	F R	Wind turbine
	15031	BLACKFJÄLLET	635328.0N 0175721.0E	656	2157	F R	Wind turbine
	15032	BLACKFJÄLLET	635308.3N 0175657.9E	656	2161	FLG W	Wind turbine
	15033	BLACKFJÄLLET	635253.9N 0175726.5E	656	2291	FLG W	Wind turbine
	15036	BLACKFJÄLLET	635256.0N 0175916.9E	656	2206	F R	Wind turbine
	15037	BLACKFJÄLLET	635308.0N 0175945.6E	656	2036	F R	Wind turbine
	15038	BLACKFJÄLLET	635331.5N 0175747.9E	656	2189	F R	Wind turbine
	15039	BLACKFJÄLLET	635305.4N 0175809.1E	656	2192	F R	Wind turbine
	15040	BLACKFJÄLLET	635253.8N 0175852.2E	656	2172	F R	Wind turbine
	15041	BLACKFJÄLLET	635322.5N 0175827.3E	656	2290	F R	Wind turbine
	15042	BLACKFJÄLLET	635309.1N 0175850.9E	656	2326	F R	Wind turbine
	15043	BLACKFJÄLLET	635336.8N 0175825.9E	656	2277	F R	Wind turbine
	15044	BLACKFJÄLLET	635347.5N 0175755.9E	656	2218	F R	Wind turbine
	15045	RÖDSANDTORPET	634816.1N 0175927.3E	656	2128	FLG W	Wind turbine
	15046	RÖDSANDTORPET	634824.0N 0175901.3E	656	2254	F R	Wind turbine
	15047	RÖDSANDTORPET	634836.3N 0175954.6E	656	2317	F R	Wind turbine
	15048	RÖDSANDTORPET	634842.7N 0175853.2E	656	2231	F R	Wind turbine
	15049	RÖDSANDTORPET	634850.1N 0175930.1E	656	2156	FLG W	Wind turbine
	15050	RÖDSANDTORPET	634858.9N 0175835.5E	656	2176	F R	Wind turbine
	15051	RÖDSANDTORPET	634829.1N 0175805.5E	656	2173	F R	Wind turbine
	15052	RÖDSANDTORPET	634843.9N 0175813.7E	656	2263	F R	Wind turbine
	15053	RÖDSANDTORPET	634900.5N 0175736.8E	656	2199	F R	Wind turbine
	15054	RÖDSANDTORPET	634909.0N 0175709.2E	656	2062	FLG W	Wind turbine
	15055	RÖDSANDTORPET	634908.3N 0175616.9E	656	1978	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	15056	RÖDSANDTORPET	634810.3N 0175840.7E	656	2057	F R	Wind turbine
	15057	RÖDSANDTORPET	634821.0N 0175742.0E	656	2136	F R	Wind turbine
	15058	RÖDSANDTORPET	634801.6N 0175738.9E	656	2078	FLG W	Wind turbine
	15059	RÖDSANDTORPET	634831.2N 0175708.4E	656	2155	FLG W	Wind turbine
	15060	RÖDSANDTORPET	634821.4N 0175620.2E	656	2331	F R	Wind turbine
	15061	RÖDSANDTORPET	634836.3N 0175603.1E	656	2248	F R	Wind turbine
	15062	RÖDSANDTORPET	634835.0N 0175514.3E	656	2265	F R	Wind turbine
	15063	RÖDSANDTORPET	634847.9N 0175505.8E	656	2308	F R	Wind turbine
	15064	RÖDSANDTORPET	634847.7N 0175546.2E	656	2241	F R	Wind turbine
	15065	RÖDSANDTORPET	634906.9N 0175449.7E	656	2023	FLG W	Wind turbine
	15066	RÖDSANDTORPET	634849.4N 0175406.0E	656	2119	F R	Wind turbine
	15067	RÖDSANDTORPET	634853.6N 0175332.1E	656	2169	F R	Wind turbine
	15068	RÖDSANDTORPET	634854.5N 0175300.1E	656	2146	FLG W	Wind turbine
	15069	RÖDSANDTORPET	634820.4N 0175517.1E	656	2408	FLG W	Wind turbine
	15070	RÖDSANDTORPET	634810.4N 0175536.4E	656	2338	FLG W	Wind turbine
	15071	RÖDSANDTORPET	634834.5N 0175413.3E	656	2243	F R	Wind turbine
	15072	RÖDSANDTORPET	634813.9N 0175447.2E	656	2218	F R	Wind turbine
	15073	RÖDSANDTORPET	634822.2N 0175345.7E	656	2251	F R	Wind turbine
	15074	RÖDSANDTORPET	634820.3N 0175308.4E	656	2302	F R	Wind turbine
	15075	RÖDSANDTORPET	634806.6N 0175340.3E	656	2091	FLG W	Wind turbine
	15076	RÖDSANDTORPET	634755.8N 0175305.5E	656	2140	F R	Wind turbine
	15077	RÖDSANDTORPET	634759.6N 0175231.3E	656	2203	F R	Wind turbine
	15078	RÖDSANDTORPET	634812.3N 0175246.9E	656	2189	F R	Wind turbine
	15079	RÖDSANDTORPET	634811.4N 0175145.6E	656	2104	F R	Wind turbine
	15080	RÖDSANDTORPET	634757.4N 0175146.6E	656	2060	FLG W	Wind turbine
	15081	RÖDSANDTORPET	634834.2N 0175256.8E	656	2287	F R	Wind turbine
	15082	RÖDSANDTORPET	634829.1N 0175222.9E	656	2267	F R	Wind turbine
	15083	RÖDSANDTORPET	634827.5N 0175146.9E	656	2194	FLG W	Wind turbine
	15084	RÖDSANDTORPET	634846.0N 0175219.2E	656	2155	F R	Wind turbine
	17440	STAVRO	635347.8N 0175916.4E	656	1896	unknown	Wind turbine
63N 18E	510	ÖRNSKÖLDSVIK/ÅS	631809.2N 0183938.7E	561	1271	F R/FLG W	Mast
	10672	BJÖRNA	633334.3N 0184355.0E (*)	387	1552	F R	Mast
	11856	STORHÖJDEN	630931.3N 0180035.0E	394	1679	F R	Mast
	11860	SIDENSJÖ BRANDBERGET	631804.3N 0180510.0E	564	1657	FLG W	Wind turbine
	11861	SIDENSJÖ BRANDBERGET	631817.4N 0180552.7E	564	1585	F R	Wind turbine
	11862	SIDENSJÖ BRANDBERGET	631830.4N 0180630.3E	564	1588	FLG W	Wind turbine
	11863	SIDENSJÖ BRANDBERGET	631753.2N 0180558.4E	564	1572	F R	Wind turbine
	11864	SIDENSJÖ BRANDBERGET	631807.3N 0180628.8E	564	1637	F R	Wind turbine
	11865	SIDENSJÖ BRANDBERGET	631818.5N 0180703.7E	564	1637	F R	Wind turbine
	11866	SIDENSJÖ BRANDBERGET	631750.2N 0180637.0E	564	1650	FLG W	Wind turbine
	11867	SIDENSJÖ BRANDBERGET	631801.4N 0180719.9E	564	1650	F R	Wind turbine
	11868	SIDENSJÖ BRANDBERGET	631811.9N 0180749.0E	564	1601	F R	Wind turbine
	11869	SIDENSJÖ BRANDBERGET	631745.4N 0180720.5E	564	1621	F R	Wind turbine
	11870	SIDENSJÖ BRANDBERGET	631755.3N 0180804.3E	564	1663	F R	Wind turbine
	11871	SIDENSJÖ BRANDBERGET	631813.1N 0180843.3E	564	1667	FLG W	Wind turbine
	11872	SIDENSJÖ BRANDBERGET	631754.5N 0180847.7E	564	1732	F R	Wind turbine
	11873	SIDENSJÖ BRANDBERGET	631807.9N 0180923.8E	564	1650	FLG W	Wind turbine
	11874	SIDENSJÖ BRANDBERGET	631735.5N 0180905.4E	564	1693	FLG W	Wind turbine
	11875	SIDENSJÖ BRANDBERGET	631742.7N 0180944.7E	564	1752	FLG W	Wind turbine
	11876	SIDENSJÖ BRANDBERGET	631758.4N 0180954.0E	564	1644	F R	Wind turbine
	12162	SIDENSJÖ	631555.2N 0180013.2E	564	1581	FLG W	Wind turbine
	12163	SIDENSJÖ	631548.3N 0180053.7E	564	1640	F R	Wind turbine
	12164	SIDENSJÖ	631604.1N 0180115.3E	564	1598	FLG W	Wind turbine
	12165	SIDENSJÖ	631540.1N 0180138.8E	564	1637	F R	Wind turbine
	12166	SIDENSJÖ	631556.6N 0180205.9E	564	1647	F R	Wind turbine
	12167	SIDENSJÖ	631535.4N 0180220.5E	564	1647	F R	Wind turbine
	12168	SIDENSJÖ	631528.9N 0180310.9E	564	1732	F R	Wind turbine
	12169	SIDENSJÖ	631548.2N 0180332.2E	564	1650	F R	Wind turbine
	12170	SIDENSJÖ	631523.1N 0180403.0E	564	1627	F R	Wind turbine
	12171	SIDENSJÖ	631537.3N 0180450.2E	564	1575	F R	Wind turbine
	12172	SIDENSJÖ	631517.3N 0180448.5E	564	1575	F R	Wind turbine
	12173	SIDENSJÖ	631532.7N 0180544.0E	564	1555	FLG W	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	12174	SIDENSJÖ	631458.4N 0180526.4E	564	1581	F R	Wind turbine
	12175	SIDENSJÖ	631507.4N 0180326.0E	564	1663	F R	Wind turbine
	12176	SIDENSJÖ	631448.4N 0180349.3E	564	1647	F R	Wind turbine
	12177	SIDENSJÖ	631429.3N 0180415.0E	564	1614	F R	Wind turbine
	12178	SIDENSJÖ	631451.3N 0180138.6E	564	1719	F R	Wind turbine
	12179	SIDENSJÖ	631425.5N 0180133.9E	564	1765	FLG W	Wind turbine
	12180	SIDENSJÖ	631439.4N 0180219.0E	564	1742	F R	Wind turbine
	12181	SIDENSJÖ	631416.2N 0180209.5E	564	1785	FLG W	Wind turbine
	12182	SIDENSJÖ	631405.2N 0180243.2E	564	1742	FLG W	Wind turbine
	12183	SIDENSJÖ	631416.6N 0180501.5E	564	1670	FLG W	Wind turbine
	12184	SIDENSJÖ	631424.2N 0180539.1E	564	1608	FLG W	Wind turbine
	12185	SIDENSJÖ	631446.3N 0180852.2E	564	1467	FLG W	Wind turbine
	12186	SIDENSJÖ	631458.6N 0180917.4E	564	1453	F R	Wind turbine
	12187	SIDENSJÖ	631449.8N 0181006.0E	564	1388	FLG W	Wind turbine
	12188	SIDENSJÖ	631551.4N 0180250.4E	564	1742	FLG W	Wind turbine
	12189	SIDENSJÖ	631513.2N 0180851.1E	564	1427	FLG W	Wind turbine
	13548	ÄLIDEN	634440.6N 0184951.6E (*)	655	1832	FLG W	Wind turbine
	13549	ÄLIDEN	634430.2N 0184930.3E (*)	655	1947	FLG W	Wind turbine
	13550	ÄLIDEN	634423.7N 0185020.6E (*)	655	1895	FLG W	Wind turbine
	13551	ÄLIDEN	634413.7N 0184959.6E (*)	655	1965	FLG W	Wind turbine
	13552	ÄLIDEN	634411.3N 0184918.9E (*)	655	1946	FLG W	Wind turbine
	13553	ÄLIDEN	634403.3N 0185052.3E (*)	655	1915	FLG W	Wind turbine
	13554	ÄLIDEN	634355.3N 0185023.3E (*)	655	1885	F R	Wind turbine
	13555	ÄLIDEN	634326.6N 0185120.5E (*)	655	1781	FLG W	Wind turbine
	13556	ÄLIDEN	634311.0N 0185155.9E (*)	655	1725	FLG W	Wind turbine
	13557	ÄLIDEN	634252.2N 0185124.0E (*)	655	1620	F R	Wind turbine
	13558	ÄLIDEN	634248.0N 0185040.5E (*)	655	1719	FLG W	Wind turbine
	13559	ÄLIDEN	634232.9N 0185202.1E (*)	655	1618	FLG W	Wind turbine
	14077	BRATTMYLIDEN	633912.0N 0185846.6E (*)	656	1680	FLG W	Wind turbine
	14079	BRATTMYLIDEN	633856.0N 0185928.2E (*)	656	1768	FLG W	Wind turbine
	14081	BRATTMYLIDEN	633903.0N 0185806.0E (*)	656	1693	FLG W	Wind turbine
	14082	BRATTMYLIDEN	633847.8N 0185900.6E (*)	656	1798	FLG W	Wind turbine
	14084	BRATTMYLIDEN	633814.5N 0185942.6E (*)	656	1745	FLG W	Wind turbine
	14085	BRATTMYLIDEN	633814.2N 0185754.7E (*)	656	1683	FLG W	Wind turbine
	14089	BRATTMYLIDEN	633752.0N 0185913.6E (*)	656	1742	FLG W	Wind turbine
	14090	BRATTMYLIDEN	633744.7N 0185821.8E (*)	656	1650	F R	Wind turbine
	14091	BRATTMYLIDEN	633737.3N 0185755.0E (*)	656	1614	FLG W	Wind turbine
	14094	BRATTMYLIDEN	633710.9N 0185849.0E (*)	656	1663	FLG W	Wind turbine
	15023	BLACKFJÄLLET	635254.5N 0180121.4E	656	2087	FLG W	Wind turbine
	15024	BLACKFJÄLLET	635310.6N 0180054.7E	656	1955	F R	Wind turbine
	15025	BLACKFJÄLLET	635322.4N 0180005.3E	656	1921	F R	Wind turbine
	15034	BLACKFJÄLLET	635240.8N 0180049.6E	656	2083	FLG W	Wind turbine
	15035	BLACKFJÄLLET	635254.2N 0180007.2E	656	2113	F R	Wind turbine
	16309	ÄSBERGET	631809.5N 0183940.0E	348	1053	unknown	Mast
63N 19E	514	VÄNNÄS	635025.3N 0194921.6E	1060	1858	F R/FLG W	Mast
	690	HUSUM 2	631931.4N 0190937.4E	361	387	F R	Chimney
	9324	HÖRNEFORS	633731.5N 0195812.6E	456	494	FLG R	Wind turbine
	9325	HÖRNEFORS	633743.3N 0195807.1E	456	495	FLG R	Wind turbine
	9326	HÖRNEFORS	633755.9N 0195804.2E	456	499	FLG R	Wind turbine
	9327	HÖRNEFORS	633740.6N 0195712.5E	456	509	FLG R	Wind turbine
	9328	HÖRNEFORS	633751.6N 0195708.7E	456	531	FLG R	Wind turbine
	9329	HÖRNEFORS	633805.7N 0195702.3E	456	538	FLG R	Wind turbine
	9672	HÖRNEFORS	633819.0N 0195757.8E	492	548	FLG R	Wind turbine
	9673	HÖRNEFORS	633807.4N 0195800.9E	492	545	FLG R	Wind turbine
	9674	HÖRNEFORS	633832.1N 0195756.4E	492	548	FLG R	Wind turbine
	9675	HÖRNEFORS	633843.9N 0195755.0E	492	551	FLG R	Wind turbine
	9676	HÖRNEFORS	633815.9N 0195657.5E	492	581	FLG R	Wind turbine
	9814	GABRIELSBERGET	633127.2N 0191633.7E	489	1181	FLG R	Wind turbine
	9834	GABRIELSBERGET	633136.5N 0191643.2E	489	1161	FLG R	Wind turbine
	9835	GABRIELSBERGET	633149.1N 0191532.8E	489	1220	FLG R	Wind turbine
	9836	GABRIELSBERGET	633141.6N 0191559.9E	489	1194	FLG R	Wind turbine
	9837	GABRIELSBERGET	633208.9N 0191534.9E	489	1207	FLG R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	9838	GABRIELSBERGET	633201.1N 0191618.7E	489	1227	FLG R	Wind turbine
	9911	NYLAND/GABRIELSBERGET	633127.4N 0191558.7E	489	1168	FLG R	Wind turbine
	9912	GABRIELSBERGET	633207.1N 0191718.2E	489	1188	FLG R	Wind turbine
	9913	GABRIELSBERGET	633208.0N 0191651.2E	489	1184	FLG R	Wind turbine
	9914	NYLAND/GABRIELSBERGET	633206.7N 0191346.1E	489	1168	FLG R	Wind turbine
	9928	LÖGDEÅ	633219.6N 0191733.3E	489	1149	FLG R	Wind turbine
	9929	LÖGDEÅ	633223.6N 0191711.4E	489	1191	FLG R	Wind turbine
	9967	LÖGDEÅ	633200.6N 0191705.5E	489	1176	FLG R	Wind turbine
	10001	GABRIELSBERGET	633155.0N 0191459.2E	489	1197	FLG R	Wind turbine
	10002	GABRIELSBERGET	633209.0N 0191456.6E	489	1200	FLG R	Wind turbine
	10003	GABRIELSBERGET	633214.9N 0191418.8E	489	1201	FLG R	Wind turbine
	10004	GABRIELSBERGET	633226.5N 0191434.8E	489	1230	FLG R	Wind turbine
	10005	GABRIELSBERGET	633219.2N 0191342.6E	489	1188	FLG R	Wind turbine
	10006	GABRIELSBERGET	633216.6N 0191618.2E	489	1204	FLG R	Wind turbine
	10007	GABRIELSBERGET	633131.9N 0191702.0E	489	1125	FLG R	Wind turbine
	10526	GABRIELSBERGET	633303.2N 0191326.8E	489	1240	FLG R	Wind turbine
	10527	GABRIELSBERGET	633257.4N 0191524.0E	489	1178	FLG R	Wind turbine
	10528	GABRIELSBERGET	633309.2N 0191727.9E	489	1122	FLG R	Wind turbine
	10529	GABRIELSBERGET	633252.4N 0191544.5E	489	1201	FLG R	Wind turbine
	10530	GABRIELSBERGET	633242.1N 0191550.5E	489	1204	FLG R	Wind turbine
	10531	GABRIELSBERGET	633230.4N 0191606.7E	489	1214	FLG R	Wind turbine
	10532	GABRIELSBERGET	633241.0N 0191735.1E	489	1165	FLG R	Wind turbine
	10533	GABRIELSBERGET	633249.9N 0191817.3E	489	1129	FLG R	Wind turbine
	10534	GABRIELSBERGET	633257.0N 0191703.1E	489	1132	FLG R	Wind turbine
	10535	GABRIELSBERGET	633238.0N 0191424.8E	489	1220	FLG R	Wind turbine
	10536	GABRIELSBERGET	633250.7N 0191419.5E	489	1217	FLG R	Wind turbine
	10537	GABRIELSBERGET	633240.7N 0191350.9E	489	1201	FLG R	Wind turbine
	10538	GABRIELSBERGET	633248.6N 0191332.2E	489	1227	FLG R	Wind turbine
	10539	GABRIELSBERGET	633311.6N 0191430.6E	489	1198	FLG R	Wind turbine
	10540	GABRIELSBERGET	633324.7N 0191450.2E	489	1184	FLG R	Wind turbine
	10541	GABRIELSBERGET	633305.4N 0191354.1E	489	1230	FLG R	Wind turbine
	11442	GABRIELSBERGET	633342.9N 0191411.6E	489	1168	FLG R	Wind turbine
	11443	GABRIELSBERGET	633330.2N 0191416.4E	489	1187	FLG R	Wind turbine
	11444	GABRIELSBERGET	633327.9N 0191340.3E	489	1220	FLG R	Wind turbine
	11445	GABRIELSBERGET	633320.4N 0191346.8E	489	1211	FLG R	Wind turbine
	12522	NORDMALING	633053.1N 0191735.6E	394	957	F R	Mast
	14078	BRATTMYLIDEN	633905.5N 0190034.4E (*)	656	1647	FLG W	Wind turbine
	14080	BRATTMYLIDEN	633834.9N 0190106.4E (*)	656	1765	FLG W	Wind turbine
	14083	BRATTMYLIDEN	633828.3N 0190023.5E (*)	656	1755	FLG W	Wind turbine
	14086	BRATTMYLIDEN	633825.9N 0190157.8E (*)	656	1759	FLG W	Wind turbine
	14087	BRATTMYLIDEN	633808.1N 0190218.9E	656	1736	FLG W	Wind turbine
	14088	BRATTMYLIDEN	633756.3N 0190135.0E (*)	656	1650	F R	Wind turbine
	14092	BRATTMYLIDEN	633731.7N 0190102.8E (*)	656	1680	F R	Wind turbine
	14093	BRATTMYLIDEN	633730.1N 0190017.0E (*)	656	1749	FLG W	Wind turbine
	14095	BRATTMYLIDEN	633703.1N 0190022.4E (*)	656	1696	FLG W	Wind turbine
	14817	HUSUM	631933.0N 0190944.1E	401	416	FLG R	Chimney
63N 20E	3849	DÄVAMYRAN	635204.8N 0202435.9E	331	433	F R	Chimney
	8483	HOLMSUND	634022.6N 0202019.1E	410	423	FLG R	Wind turbine
	9177	HOLMSUND	634028.2N 0202003.3E	410	410	F R	Wind turbine
	9432	HOLMSUND	633918.2N 0202339.2E	335	347	F R	Mast
	14424	SÄVAR	635401.2N 0204017.8E	476	574	F R	Mast
64N 15E	8275	HARRSJÖN	642323.5N 0152359.4E (*)	335	2549	F R	Wind turbine
	9044	KOMMERBERGET	642333.0N 0152412.7E (*)	338	2448	FLG R	Wind turbine
	9045	KOMMERBERGET	642330.9N 0152354.5E (*)	338	2451	FLG R	Wind turbine
	9156	BLIEKEVARE	643857.9N 0153257.1E (*)	410	2723	FLG R	Wind turbine
	9157	BLIEKEVARE	643844.0N 0153252.2E (*)	410	2772	F R	Wind turbine
	9158	BLIEKEVARE	643900.9N 0153335.0E (*)	410	2625	FLG R	Wind turbine
	9159	BLIEKEVARE	643847.9N 0153325.0E (*)	410	2756	F R	Wind turbine
	9160	BLIEKEVARE	643835.5N 0153318.0E (*)	410	2789	FLG R	Wind turbine
	9161	BLIEKEVARE	643823.7N 0153304.6E (*)	410	2740	F R	Wind turbine
	9162	BLIEKEVARE	643900.9N 0153413.1E (*)	410	2608	FLG R	Wind turbine
	9163	BLIEKEVARE	643850.1N 0153442.8E (*)	410	2707	FLG R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	9164	BLIEKEVARE	643849.4N 0153405.5E (*)	410	2789	F R	Wind turbine
	9165	BLIEKEVARE	643836.3N 0153403.0E (*)	410	2854	F R	Wind turbine
	9166	BLIEKEVARE	643824.1N 0153402.0E (*)	410	2789	FLG R	Wind turbine
	9167	BLIEKEVARE	643813.7N 0153335.2E (*)	410	2723	F R	Wind turbine
	9168	BLIEKEVARE	643800.1N 0153338.1E (*)	410	2822	FLG R	Wind turbine
	9169	BLIEKEVARE	643749.5N 0153315.0E (*)	410	2789	FLG R	Wind turbine
	9170	BLIEKEVARE	643755.5N 0153249.8E (*)	410	2789	F R	Wind turbine
	9171	BLIEKEVARE	643809.0N 0153248.2E (*)	410	2723	FLG R	Wind turbine
	9172	BLIEKEVARE	643840.4N 0153426.5E (*)	410	2740	F R	Wind turbine
	9173	BLIEKEVARE	643802.5N 0153311.7E (*)	410	2772	F R	Wind turbine
	9515	ALAVATTNET	640205.5N 0153906.5E (*)	476	2172	FLG R	Wind turbine
	9516	ALAVATTNET	640221.0N 0153859.4E (*)	476	2126	FLG R	Wind turbine
	9517	ALAVATTNET	640231.1N 0153914.0E (*)	476	2136	FLG R	Wind turbine
	9518	ALAVATTNET	640239.3N 0153921.6E (*)	476	2146	FLG R	Wind turbine
	9519	ALAVATTNET	640244.1N 0153943.1E (*)	476	2169	FLG R	Wind turbine
	9520	URSÅSEN	640217.8N 0154009.5E (*)	476	2211	FLG R	Wind turbine
	9521	URSÅSEN	640206.7N 0153930.5E (*)	476	2231	FLG R	Wind turbine
	9522	URSÅSEN	640208.7N 0153952.4E (*)	476	2221	FLG R	Wind turbine
	9523	URSÅSEN	640231.0N 0153945.3E (*)	476	2208	FLG R	Wind turbine
	9524	URSÅSEN	640236.6N 0154016.1E (*)	476	2175	FLG R	Wind turbine
	9525	URSÅSEN	640219.2N 0153931.7E (*)	476	2241	FLG R	Wind turbine
	9565	TORPET	640134.3N 0154427.6E (*)	476	2146	FLG R	Wind turbine
	9566	TORPET	640132.7N 0154456.0E (*)	476	2169	FLG R	Wind turbine
	9567	TORPET	640153.1N 0154515.1E (*)	476	2103	FLG R	Wind turbine
	9568	URSÅSEN	640153.3N 0154548.7E (*)	476	2126	FLG R	Wind turbine
	9569	TORPET	640207.7N 0154519.5E (*)	476	2139	FLG R	Wind turbine
	9570	TORPET	640209.3N 0154555.3E (*)	476	2165	FLG R	Wind turbine
	9571	TORPET	640204.1N 0154631.1E (*)	476	2106	FLG R	Wind turbine
	9572	TORPET	640215.6N 0154453.2E (*)	476	2192	FLG R	Wind turbine
	9573	TORPET	640221.8N 0154519.7E (*)	476	2152	FLG R	Wind turbine
	9574	TORPET	640231.1N 0154547.7E (*)	476	2149	FLG R	Wind turbine
	9575	TORPET	640220.4N 0154554.8E (*)	476	2133	FLG R	Wind turbine
	9576	TORPET	640236.3N 0154613.9E (*)	476	2182	FLG R	Wind turbine
	9577	TORPET	640246.3N 0154618.6E (*)	476	2182	FLG R	Wind turbine
	9578	TORPET	640257.8N 0154610.1E (*)	476	2185	FLG R	Wind turbine
	9579	TORPET	640310.0N 0154611.0E (*)	476	2175	FLG R	Wind turbine
	9580	TORPET	640319.5N 0154614.6E (*)	476	2142	FLG R	Wind turbine
	9635	ALAVATTNET	640635.0N 0154201.3E (*)	476	2238	FLG R	Wind turbine
	9636	ALAVATTNET	640644.7N 0154217.4E (*)	476	2188	F R	Wind turbine
	9637	ALAVATTNET	640634.6N 0154239.7E (*)	476	2264	F R	Wind turbine
	9638	ALAVATTNET	640643.9N 0154249.7E (*)	476	2231	FLG R	Wind turbine
	9639	ALAVATTNET	640626.0N 0154220.7E (*)	476	2254	F R	Wind turbine
	9640	ALAVATTNET	640623.5N 0154351.3E (*)	476	2369	F R	Wind turbine
	9641	ALAVATTNET	640637.2N 0154441.0E (*)	476	2359	FLG R	Wind turbine
	9642	ALAVATTNET	640631.1N 0154422.9E (*)	476	2388	F R	Wind turbine
	9643	ALAVATTNET	640607.3N 0154308.6E (*)	476	2362	FLG R	Wind turbine
	9644	ALAVATTNET	640619.4N 0154447.9E (*)	476	2385	F R	Wind turbine
	9645	ALAVATTNET	640529.1N 0154313.2E (*)	476	2405	FLG R	Wind turbine
	9646	ALAVATTNET	640540.7N 0154315.8E (*)	476	2461	F R	Wind turbine
	9647	ALAVATTNET	640552.7N 0154330.2E (*)	476	2493	F R	Wind turbine
	9648	ALAVATTNET	640541.4N 0154350.1E (*)	476	2497	F R	Wind turbine
	9649	ALAVATTNET	640548.1N 0154402.7E (*)	476	2520	F R	Wind turbine
	9650	ALAVATTNET	640532.8N 0154405.3E (*)	476	2572	FLG R	Wind turbine
	9651	ALAVATTNET	640536.8N 0154430.8E (*)	476	2549	F R	Wind turbine
	9652	ALAVATTNET	640545.3N 0154444.4E (*)	476	2526	F R	Wind turbine
	9653	ALAVATTNET	640556.6N 0154447.4E (*)	476	2497	F R	Wind turbine
	9654	ALAVATTNET	640602.9N 0154510.0E (*)	476	2484	FLG R	Wind turbine
	9655	ALAVATTNET	640542.4N 0154510.3E (*)	476	2493	FLG R	Wind turbine
	13092	TÅSJÖ	641357.9N 0155608.1E (*)	963	3020	F R/FLG W	Mast
64N 16E	12455	STORUMAN	645837.2N 0164432.4E (*)	591	2231	FLG W	Mast
64N 17E	8934	SKARVSJÖBY	645845.4N 0170408.3E (*)	338	2110	F R	Wind turbine
	9995	LEDNINGSVALL	642717.4N 0175745.1E	407	2343	F R	Mast

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
64N 18E	10096	LATIKBERGET	643929.3N 0170330.3E (*)	420	2323	FLG R	Wind turbine
	10458	PAULIDEN	644919.7N 0173420.6E (*)	394	2169	F R	Mast
	10459	RÄFTBERGET	644832.1N 0172127.9E (*)	394	2306	F R	Mast
	10696	VÄSTER-STORSJÖ	640840.6N 0173426.8E (*)	394	2080	F R	Mast
	11018	RISTRÄSK	644442.5N 0172358.6E (*)	328	2372	FLG R	Wind turbine
	14126	ÅSELE	641413.2N 0171349.8E	492	2178	F R	Wind turbine
	14127	ÅSELE	641400.0N 0171338.4E	492	2244	F R	Wind turbine
	14128	ÅSELE	641352.6N 0171402.3E	492	2216	F R	Wind turbine
	14129	ÅSELE	641339.2N 0171414.1E	492	2110	F R	Wind turbine
	17441	TJÄRNBERGET	641405.9N 0171426.5E	722	2417	unknown	Wind turbine
	533	LYCKSELE/KNAFTEN	642849.0N 0183505.1E	1070	2600	F R/FLG W	Mast
	2838	BÄLFORSEN	643946.0N 0182302.2E	404	1653	F R	Mast
	9855	STOR-ROTLIDEN	641237.0N 0182317.7E (*)	459	2156	FLG R	Wind turbine
	9856	STOR-ROTLIDEN	641300.1N 0182344.4E (*)	459	2215	FLG R	Wind turbine
	9857	STOR-ROTLIDEN	641245.8N 0182343.3E (*)	459	2133	FLG R	Wind turbine
	9858	STOR-ROTLIDEN	641401.5N 0182348.1E (*)	459	2238	FLG R	Wind turbine
	9859	STOR-ROTLIDEN	641342.1N 0182313.4E (*)	459	2244	FLG R	Wind turbine
	9860	STOR-ROTLIDEN	641338.5N 0182237.1E (*)	459	2254	F R	Wind turbine
	9861	STOR-ROTLIDEN	641326.1N 0182243.9E (*)	459	2277	FLG R	Wind turbine
	9862	STOR-ROTLIDEN	641311.7N 0182247.2E (*)	459	2280	FLG R	Wind turbine
	9863	STOR-ROTLIDEN	641300.1N 0182259.8E (*)	459	2346	F R	Wind turbine
	9864	STOR-ROTLIDEN	641247.9N 0182304.7E (*)	459	2313	F R	Wind turbine
	9891	STOR-ROTLIDEN	641240.5N 0182156.8E (*)	459	2057	FLG R	Wind turbine
	9892	STOR-ROTLIDEN	641248.3N 0182131.0E (*)	459	2034	FLG R	Wind turbine
	9893	STOR-ROTLIDEN	641302.5N 0182134.7E (*)	459	2123	FLG R	Wind turbine
	9894	STOR-ROTLIDEN	641233.6N 0182242.6E (*)	459	2106	FLG R	Wind turbine
	9895	STOR-ROTLIDEN	641247.2N 0182232.8E (*)	459	2188	F R	Wind turbine
	9896	STOR-ROTLIDEN	641259.4N 0182221.1E (*)	459	2264	F R	Wind turbine
	9897	STOR-ROTLIDEN	641310.3N 0182206.6E (*)	459	2283	F R	Wind turbine
	9898	STOR-ROTLIDEN	641319.6N 0182145.7E (*)	459	2231	F R	Wind turbine
	9899	STOR-ROTLIDEN	641326.6N 0182123.0E (*)	459	2165	FLG R	Wind turbine
	9900	STOR-ROTLIDEN	641337.6N 0182106.8E (*)	459	2126	FLG R	Wind turbine
	9901	STOR-ROTLIDEN	641349.5N 0182100.1E (*)	459	2080	FLG R	Wind turbine
	9902	STOR-ROTLIDEN	641337.8N 0182203.9E (*)	459	2297	F R	Wind turbine
	9903	STOR-ROTLIDEN	641346.3N 0182143.3E (*)	459	2224	F R	Wind turbine
	9904	STOR-ROTLIDEN	641408.3N 0182111.0E (*)	459	2051	FLG R	Wind turbine
	9905	STOR-ROTLIDEN	641429.4N 0182102.4E (*)	459	2054	FLG R	Wind turbine
	9906	STOR-ROTLIDEN	641419.6N 0182123.2E (*)	459	2119	F R	Wind turbine
	9907	STOR-ROTLIDEN	641441.9N 0182132.5E (*)	459	2057	FLG R	Wind turbine
	9908	STOR-ROTLIDEN	641406.8N 0182243.9E (*)	459	2182	F R	Wind turbine
	9909	STOR-ROTLIDEN	641415.4N 0182225.5E (*)	459	2198	F R	Wind turbine
	9910	STOR-ROTLIDEN	641425.6N 0182211.7E (*)	459	2182	F R	Wind turbine
	9916	STOR-ROTLIDEN	641432.8N 0182149.9E (*)	459	2172	F R	Wind turbine
	9917	STOR-ROTLIDEN	641454.7N 0182228.0E (*)	459	2011	FLG R	Wind turbine
	9918	STOR-ROTLIDEN	641442.4N 0182335.2E (*)	459	2162	FLG R	Wind turbine
	9919	STOR-ROTLIDEN	641434.0N 0182355.0E (*)	459	2224	FLG R	Wind turbine
	9920	STOR-ROTLIDEN	641419.3N 0182418.3E (*)	459	2306	FLG R	Wind turbine
	9921	STOR-ROTLIDEN	641409.9N 0182427.9E (*)	459	2313	FLG R	Wind turbine
	9922	STOR-ROTLIDEN	641418.8N 0182346.1E (*)	459	2333	F R	Wind turbine
	9923	STOR-ROTLIDEN	641424.2N 0182319.3E (*)	459	2277	F R	Wind turbine
	9924	STOR-ROTLIDEN	641434.9N 0182301.4E (*)	459	2215	F R	Wind turbine
	9925	STOR-ROTLIDEN	641447.9N 0182258.0E (*)	459	2077	FLG R	Wind turbine
14569	FÄBODBERGET	641405.8N 0182952.4E	591	2156	FLG W	Wind turbine	
14570	FÄBODBERGET	641355.2N 0183009.9E	591	2232	F R	Wind turbine	
14571	FÄBODBERGET	641356.7N 0183042.7E	591	2323	F R	Wind turbine	
14572	FÄBODBERGET	641347.5N 0183109.2E	591	2234	FLG W	Wind turbine	
14573	FÄBODBERGET	641336.2N 0183036.5E	591	2215	F R	Wind turbine	
14574	FÄBODBERGET	641351.1N 0182853.0E	591	2203	FLG W	Wind turbine	
14575	FÄBODBERGET	641343.1N 0182917.5E	591	2203	F R	Wind turbine	
14576	FÄBODBERGET	641340.7N 0182830.2E	591	2148	F R	Wind turbine	
14577	FÄBODBERGET	641330.4N 0182811.3E	591	2125	F R	Wind turbine	
14578	FÄBODBERGET	641327.1N 0182905.3E	591	2248	F R	Wind turbine	

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	14579	FÄBODBERGET	641317.7N 0182936.2E	591	2179	F R	Wind turbine
	14580	FÄBODBERGET	641306.2N 0182920.5E	591	2160	F R	Wind turbine
	14581	FÄBODBERGET	641315.5N 0182746.4E	591	2170	FLG W	Wind turbine
	14582	FÄBODBERGET	641310.0N 0182811.8E	591	2141	F R	Wind turbine
	14583	FÄBODBERGET	641236.4N 0182719.6E	591	2238	F R	Wind turbine
	14584	FÄBODBERGET	641245.2N 0182742.6E	591	2228	F R	Wind turbine
	14585	FÄBODBERGET	641238.9N 0182810.3E	591	2288	F R	Wind turbine
	14586	FÄBODBERGET	641236.7N 0182844.6E	591	2400	F R	Wind turbine
	14587	FÄBODBERGET	641222.3N 0182854.1E	591	2240	FLG W	Wind turbine
	14588	FÄBODBERGET	641224.2N 0182704.3E	591	2176	FLG W	Wind turbine
	14589	FÄBODBERGET	641216.7N 0182735.4E	591	2233	F R	Wind turbine
	14590	FÄBODBERGET	641211.0N 0182840.8E	591	2298	F R	Wind turbine
	14591	FÄBODBERGET	641155.4N 0182727.3E	591	2205	F R	Wind turbine
	14592	FÄBODBERGET	641151.0N 0182755.7E	591	2360	F R	Wind turbine
	14593	FÄBODBERGET	641143.9N 0182821.0E	591	2389	F R	Wind turbine
	14594	FÄBODBERGET	641137.9N 0182733.3E	591	2308	F R	Wind turbine
	14595	FÄBODBERGET	641131.9N 0182808.9E	591	2332	F R	Wind turbine
	14596	FÄBODBERGET	641129.4N 0182710.2E	591	2247	FLG W	Wind turbine
	14597	FÄBODBERGET	641121.5N 0182746.2E	591	2289	F R	Wind turbine
	14598	FÄBODBERGET	641113.6N 0182809.6E	591	2195	F R	Wind turbine
	14599	FÄBODBERGET	641110.3N 0182724.8E	591	2207	F R	Wind turbine
	14600	FÄBODBERGET	641059.7N 0182752.8E	591	2219	F R	Wind turbine
	14601	FÄBODBERGET	641053.6N 0182818.9E	591	2204	FLG W	Wind turbine
	14638	BLAKLIDEN	640130.1N 0180808.8E	591	2379	F R	Wind turbine
	14639	BLAKLIDEN	640143.8N 0180715.0E	591	2349	F R	Wind turbine
	14640	BLAKLIDEN	640258.5N 0180653.8E	591	2264	F R	Wind turbine
	14641	BLAKLIDEN	640218.0N 0180857.0E	591	2343	F R	Wind turbine
	14642	BLAKLIDEN	640153.4N 0180622.5E	591	2270	FLG W	Wind turbine
	14643	BLAKLIDEN	640120.8N 0180708.9E	591	2316	F R	Wind turbine
	14644	BLAKLIDEN	640110.5N 0180547.9E	591	2188	FLG W	Wind turbine
	14645	BLAKLIDEN	640133.1N 0180839.8E	591	2339	FLG W	Wind turbine
	14646	BLAKLIDEN	640215.2N 0180817.0E	591	2297	F R	Wind turbine
	14647	BLAKLIDEN	640140.1N 0180604.4E	591	2247	F R	Wind turbine
	14648	BLAKLIDEN	640215.5N 0180705.2E	591	2267	F R	Wind turbine
	14649	BLAKLIDEN	640146.0N 0180820.5E	591	2343	F R	Wind turbine
	14650	BLAKLIDEN	640307.4N 0180837.3E	591	2201	FLG W	Wind turbine
	14651	BLAKLIDEN	640313.1N 0180626.3E	591	2172	FLG W	Wind turbine
	14652	BLAKLIDEN	640118.9N 0180617.0E	591	2208	F R	Wind turbine
	14653	BLAKLIDEN	640231.0N 0180740.2E	591	2247	F R	Wind turbine
	14654	BLAKLIDEN	640202.0N 0180650.1E	591	2234	F R	Wind turbine
	14655	BLAKLIDEN	640106.9N 0180645.6E	591	2244	F R	Wind turbine
	14656	BLAKLIDEN	640232.9N 0180845.2E	591	2264	FLG W	Wind turbine
	14657	BLAKLIDEN	640103.3N 0180801.8E	591	2218	FLG W	Wind turbine
	14658	BLAKLIDEN	640318.7N 0180500.2E	591	2106	FLG W	Wind turbine
	14659	BLAKLIDEN	640309.1N 0180531.0E	591	2126	F R	Wind turbine
	14660	BLAKLIDEN	640056.7N 0180731.7E	591	2241	F R	Wind turbine
	14661	BLAKLIDEN	640313.7N 0180800.4E	591	2201	F R	Wind turbine
	14662	BLAKLIDEN	640157.8N 0180748.1E	591	2287	F R	Wind turbine
	14663	BLAKLIDEN	640123.6N 0180742.2E	591	2320	F R	Wind turbine
	14664	BLAKLIDEN	640133.3N 0180655.0E	591	2343	F R	Wind turbine
	14665	BLAKLIDEN	640248.9N 0180844.3E	591	2215	F R	Wind turbine
	14666	BLAKLIDEN	640546.8N 0180358.8E	591	2480	F R	Wind turbine
	14667	BLAKLIDEN	640538.0N 0180309.9E	591	2411	F R	Wind turbine
	14668	BLAKLIDEN	640555.9N 0180423.4E	591	2356	F R	Wind turbine
	14669	BLAKLIDEN	640535.0N 0180348.5E	591	2444	F R	Wind turbine
	14670	BLAKLIDEN	640542.7N 0180433.9E	591	2365	F R	Wind turbine
	14671	BLAKLIDEN	640525.0N 0180257.6E	591	2352	F R	Wind turbine
	14672	BLAKLIDEN	640519.5N 0180414.8E	591	2405	F R	Wind turbine
	14673	BLAKLIDEN	640553.2N 0180454.3E	591	2205	F R	Wind turbine
	14674	BLAKLIDEN	640516.6N 0180523.8E	591	2280	F R	Wind turbine
	14675	BLAKLIDEN	640507.4N 0180435.8E	591	2280	F R	Wind turbine
	14676	BLAKLIDEN	640525.9N 0180329.3E	591	2352	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
64N 19E	14677	BLAKLIDEN	640549.1N 0180327.0E	591	2320	F R	Wind turbine
	14678	BLAKLIDEN	640536.6N 0180506.9E	591	2172	F R	Wind turbine
	14679	BLAKLIDEN	640532.4N 0180231.8E	591	2201	FLG W	Wind turbine
	14680	BLAKLIDEN	640507.6N 0180359.0E	591	2228	F R	Wind turbine
	14681	BLAKLIDEN	640603.3N 0180355.4E	591	2162	F R	Wind turbine
	14682	BLAKLIDEN	640453.7N 0180339.2E	591	2136	F R	Wind turbine
	14683	BLAKLIDEN	640457.0N 0180530.6E	591	2133	F R	Wind turbine
	14684	BLAKLIDEN	640608.0N 0180436.9E	591	2100	FLG W	Wind turbine
	14685	BLAKLIDEN	640515.4N 0180558.8E	591	2149	FLG W	Wind turbine
	14686	BLAKLIDEN	640459.4N 0180257.0E	591	2106	FLG W	Wind turbine
	14687	BLAKLIDEN	640513.8N 0180226.7E	591	2106	F R	Wind turbine
	14688	FÄBODBERGET	641403.1N 0182903.1E	591	2185	F R	Wind turbine
	10415	VINDELN	641522.0N 0194628.3E	505	1388	F R	Mast
	12491	VINDELN	641823.2N 0195612.8E	607	1854	F R/FLG W	Wind turbine
	12492	VINDELN	641808.7N 0195642.3E	607	1824	F R/FLG W	Wind turbine
	12493	VINDELN	641809.0N 0195800.6E	607	1896	F R/FLG W	Wind turbine
	12494	VINDELN	641752.3N 0195831.1E	607	1900	F R/FLG W	Wind turbine
	12495	VINDELN	641805.1N 0195927.4E	607	1785	F R/FLG W	Wind turbine
	12497	VINDELN	641743.2N 0195914.2E	607	1834	F R/FLG W	Wind turbine
	12498	VINDELN	641726.3N 0195855.5E	607	1883	F R/FLG W	Wind turbine
	12499	VINDELN	641715.4N 0195928.9E	607	1772	F R/FLG W	Wind turbine
	12500	VINDELN	641717.7N 0195753.6E	607	1808	F R/FLG W	Wind turbine
	12501	VINDELN	641745.4N 0195711.6E	607	1870	F R/FLG W	Wind turbine
	12502	VINDELN	641724.9N 0195714.6E	607	1752	F R/FLG W	Wind turbine
	12503	VINDELN	641726.3N 0195632.4E	607	1785	F R/FLG W	Wind turbine
	12504	VINDELN	641742.2N 0195622.5E	607	1850	F R/FLG W	Wind turbine
	12505	VINDELN	641705.0N 0195710.5E	607	1824	F R/FLG W	Wind turbine
	12506	VINDELN	641711.4N 0195601.1E	607	1759	F R/FLG W	Wind turbine
	12507	VINDELN	641656.8N 0195523.6E	607	1690	F R/FLG W	Wind turbine
	12508	VINDELN	641657.1N 0195441.4E	607	1673	F R/FLG W	Wind turbine
	12509	VINDELN	641718.9N 0195523.1E	607	1762	F R/FLG W	Wind turbine
	12510	VINDELN	641723.5N 0195426.9E	607	1703	F R/FLG W	Wind turbine
	12511	VINDELN	641750.6N 0195518.6E	607	1824	F R/FLG W	Wind turbine
	12512	VINDELN	641742.7N 0195440.5E	607	1749	F R/FLG W	Wind turbine
	12513	VINDELN	641805.5N 0195450.8E	607	1818	F R/FLG W	Wind turbine
	12514	VINDELN	641820.5N 0195414.8E	607	1693	F R/FLG W	Wind turbine
	15842	FÄBODLIDEN	641735.8N 0195334.4E	755	1837	FLG W	Wind turbine
	15843	FÄBODLIDEN	641755.3N 0195407.0E	755	1919	F R	Wind turbine
	15844	FÄBODLIDEN	641820.6N 0195509.9E	755	1978	F R	Wind turbine
	15845	FÄBODLIDEN	641801.5N 0195546.1E	755	2031	F R	Wind turbine
	15920	BJÄRKLIDEN	644746.1N 0194904.1E	404	1690	unknown	Mast
	17323	NORSJÖ	644803.3N 0194810.1E	653	1877	FLG W	Wind turbine
	17324	NORSJÖ	644801.8N 0194902.0E	653	1932	FLG W	Wind turbine
	17325	NORSJÖ	644748.8N 0194905.5E	653	1932	F R	Wind turbine
	17326	NORSJÖ	644735.6N 0194851.7E	653	1932	F R	Wind turbine
	17327	NORSJÖ	644733.4N 0194937.3E	653	1916	FLG W	Wind turbine
	17328	NORSJÖ	644721.1N 0194926.3E	653	1923	F R	Wind turbine
17329	NORSJÖ	644705.2N 0194838.8E	653	1965	F R	Wind turbine	
17330	NORSJÖ	644702.5N 0194930.5E	656	1946	F R	Wind turbine	
17331	NORSJÖ	644645.4N 0194844.3E	653	1978	FLG W	Wind turbine	
17332	NORSJÖ	644635.5N 0194925.6E	653	1900	FLG W	Wind turbine	
64N 20E	541	SKELLEFTEÄ/PRÄSTFÄBOBERGET 1	644627.1N 0205708.3E	1070	1489	F R/FLG W	Mast
	985	BOLIDEN 2	645215.0N 0202141.0E	328	1078	F R	Mine hoist
	9728	ROBERTSFORS	641046.8N 0205957.7E	456	599	F R	Wind turbine
	11621	ROBERTSFORS	641013.0N 0205945.3E	492	614	FLG R	Wind turbine
	11622	ROBERTSFORS	641029.6N 0205959.8E	492	603	FLG R	Wind turbine
	11623	ROBERTSFORS	641013.3N 0205907.0E	492	614	FLG R	Wind turbine
	12496	VINDELN	641739.4N 0200006.1E	607	1739	F R/FLG W	Wind turbine
	14292	BOTSMARK	641833.7N 0201810.4E	656	1644	FLG W	Wind turbine
	14293	BOTSMARK	641815.8N 0201822.4E	656	1696	F R	Wind turbine
	14294	BOTSMARK	641802.9N 0201749.4E	656	1696	F R	Wind turbine
14295	BOTSMARK	641759.8N 0201828.0E	656	1660	FLG W	Wind turbine	

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	14296	BOTSMARK	641726.8N 0201742.3E	656	1667	F R	Wind turbine
	14297	BOTSMARK	641726.9N 0201656.5E	656	1729	FLG W	Wind turbine
	14298	BOTSMARK	641712.4N 0201856.9E	656	1706	FLG W	Wind turbine
	14299	BOTSMARK	641711.8N 0201723.3E	656	1762	F R	Wind turbine
	14300	BOTSMARK	641711.8N 0201639.3E	656	1624	F R	Wind turbine
	14301	BOTSMARK	641703.9N 0201759.1E	656	1722	F R	Wind turbine
	14302	BOTSMARK	641657.6N 0201915.0E	656	1680	F R	Wind turbine
	14303	BOTSMARK	641653.0N 0201829.2E	656	1745	F R	Wind turbine
	14304	BOTSMARK	641655.8N 0201613.8E	656	1680	FLG W	Wind turbine
	14305	BOTSMARK	641652.7N 0201650.9E	656	1706	F R	Wind turbine
	14306	BOTSMARK	641648.6N 0201730.8E	656	1716	F R	Wind turbine
	14307	BOTSMARK	641639.1N 0201801.8E	656	1814	F R	Wind turbine
	14308	BOTSMARK	641636.6N 0201908.6E	656	1611	F R	Wind turbine
	14309	BOTSMARK	641640.0N 0201626.0E	656	1670	F R	Wind turbine
	14310	BOTSMARK	641636.5N 0201703.1E	656	1785	F R	Wind turbine
	14311	BOTSMARK	641626.3N 0201825.5E	656	1716	F R	Wind turbine
	14312	BOTSMARK	641625.4N 0201935.3E	656	1598	FLG W	Wind turbine
	14313	BOTSMARK	641627.0N 0201733.9E	656	1765	F R	Wind turbine
	14314	BOTSMARK	641618.0N 0201902.2E	656	1640	F R	Wind turbine
	14315	BOTSMARK	641614.5N 0201759.5E	656	1660	F R	Wind turbine
	14316	BOTSMARK	641611.6N 0201707.5E	656	1627	FLG W	Wind turbine
	14750	BLÄBERGSLIDEN	643732.4N 0201937.6E	656	1552	FLG W	Wind turbine
	14751	BLÄBERGSLIDEN	643714.6N 0202004.3E	656	1621	F R	Wind turbine
	14752	BLÄBERGSLIDEN	643651.1N 0202101.6E	656	1572	FLG W	Wind turbine
	14753	BLÄBERGSLIDEN	643626.4N 0202140.5E	656	1503	FLG W	Wind turbine
	14754	BLÄBERGSLIDEN	643612.2N 0202054.4E	656	1499	F R	Wind turbine
	14755	BLÄBERGSLIDEN	643553.3N 0202124.9E	656	1440	F R	Wind turbine
	14756	BLÄBERGSLIDEN	643515.6N 0202135.6E	656	1490	F R	Wind turbine
	14757	BLÄBERGSLIDEN	643501.1N 0202156.9E	656	1470	FLG W	Wind turbine
	14758	BLÄBERGSLIDEN	643507.9N 0202030.7E	656	1467	F R	Wind turbine
	14759	BLÄBERGSLIDEN	643518.8N 0201958.2E	656	1499	F R	Wind turbine
	14760	BLÄBERGSLIDEN	643452.8N 0201944.1E	656	1519	F R	Wind turbine
	14761	BLÄBERGSLIDEN	643510.6N 0201850.2E	656	1572	FLG W	Wind turbine
	14762	BLÄBERGSLIDEN	643609.4N 0201945.0E	656	1470	F R	Wind turbine
	14763	BLÄBERGSLIDEN	643634.2N 0201855.9E	656	1555	F R	Wind turbine
	14764	BLÄBERGSLIDEN	643637.5N 0201951.0E	656	1565	F R	Wind turbine
	14765	BLÄBERGSLIDEN	643656.5N 0202002.3E	656	1562	F R	Wind turbine
	14766	BLÄBERGSLIDEN	643640.1N 0201743.3E	656	1594	FLG W	Wind turbine
	14767	BLÄBERGSLIDEN	643651.2N 0201830.9E	656	1647	F R	Wind turbine
	14768	BLÄBERGSLIDEN	643655.0N 0201914.7E	656	1680	F R	Wind turbine
	14769	BLÄBERGSLIDEN	643710.2N 0201848.8E	656	1719	F R	Wind turbine
	14770	BLÄBERGSLIDEN	643718.9N 0201817.7E	656	1726	F R	Wind turbine
	14771	BLÄBERGSLIDEN	643730.1N 0201851.9E	656	1696	F R	Wind turbine
	14772	BLÄBERGSLIDEN	643746.9N 0201818.9E	656	1745	FLG W	Wind turbine
	14773	BLÄBERGSLIDEN	643551.8N 0201912.6E	656	1562	F R	Wind turbine
	14774	BLÄBERGSLIDEN	643535.4N 0201913.8E	656	1568	F R	Wind turbine
	14775	BLÄBERGSLIDEN	643440.8N 0202004.1E	656	1486	FLG W	Wind turbine
	15094	BOLIDEN	645936.1N 0201949.1E	656	1814	FLG W	Wind turbine
	15095	BOLIDEN	645946.1N 0202030.7E	656	1755	FLG W	Wind turbine
64N 21E	546	RÖNNSKÄRSVERKEN	644005.1N 0211628.8E	341	358	-	Chimney
	9726	ROBERTSFORS	641042.0N 0210050.6E	456	549	F R	Wind turbine
	9727	ROBERTSFORS	641101.5N 0210100.6E	456	563	F R	Wind turbine
	9729	ROBERTSFORS	641058.1N 0210014.8E	456	608	F R	Wind turbine
	9730	ROBERTSFORS	641108.8N 0210029.8E	456	620	F R	Wind turbine
	9731	ROBERTSFORS	641118.8N 0210043.3E	456	628	F R	Wind turbine
65N 15E	9510	GARDFJÄLLET	652411.6N 0155146.8E (*)	335	3550	F R	Mast
65N 16E	555	STORUMAN	650354.0N 0165626.2E	1070	2821	F R/FLG W	Mast
	15884	STORUMAN	653244.7N 0165256.3E	489	2457	F R	Mast
65N 17E	9440	STORBLAIKEN	651725.6N 0170842.8E (*)	486	2822	F R	Mast
	9559	ULJABUOUDA	655806.1N 0173637.5E (*)	410	2867	FLG R	Wind turbine
	9560	ULJABUOUDA	655817.9N 0173649.0E (*)	410	2844	FLG R	Wind turbine
	9561	ULJABUOUDA	655808.4N 0173718.2E (*)	410	2943	FLG R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	9562	ULJABUOUDA	655806.3N 0173804.9E (*)	410	2940	FLG R	Wind turbine
	9866	ULJABUOUDA	655753.4N 0173624.6E (*)	410	2854	FLG R	Wind turbine
	9867	ULJABUOUDA	655743.6N 0173700.3E (*)	410	2871	FLG R	Wind turbine
	9868	ULJABUOUDA	655738.6N 0173634.7E (*)	410	2881	FLG R	Wind turbine
	9869	ULJABUOUDA	655753.9N 0173730.1E (*)	410	2910	FLG R	Wind turbine
	9870	ULJABUOUDA	655745.2N 0173759.6E (*)	410	2822	FLG R	Wind turbine
	9871	ULJABUOUDA	655753.1N 0173818.5E (*)	410	2822	FLG R	Wind turbine
	10716	STORBLAIKEN	651537.4N 0171851.8E (*)	489	2713	FLG R	Wind turbine
	10718	STORBLAIKEN	651550.8N 0171819.0E (*)	489	2835	FLG R	Wind turbine
	10719	STORBLAIKEN	651513.5N 0171757.8E (*)	489	2730	FLG R	Wind turbine
	10720	STORBLAIKEN	651600.2N 0171742.9E (*)	489	2785	FLG R	Wind turbine
	10721	STORBLAIKEN	651542.5N 0171739.5E (*)	489	2900	FLG R	Wind turbine
	10722	STORBLAIKEN	651522.6N 0171718.8E (*)	489	2890	FLG R	Wind turbine
	10723	STORBLAIKEN	651530.3N 0171810.2E (*)	489	2805	FLG R	Wind turbine
	10724	STORBLAIKEN	651552.3N 0171701.9E (*)	489	2802	FLG R	Wind turbine
	10725	STORBLAIKEN	651537.5N 0171645.0E (*)	489	2838	FLG R	Wind turbine
	10726	STORBLAIKEN	651520.5N 0171630.8E (*)	489	2759	FLG R	Wind turbine
	10727	STORBLAIKEN	651613.7N 0171614.9E (*)	489	2726	FLG R	Wind turbine
	10728	STORBLAIKEN	651554.8N 0171615.5E (*)	489	2835	FLG R	Wind turbine
	10729	STORBLAIKEN	651536.6N 0171556.4E (*)	489	2785	FLG R	Wind turbine
	10730	STORBLAIKEN	651622.7N 0171533.7E (*)	489	2717	FLG R	Wind turbine
	10731	STORBLAIKEN	651607.0N 0171531.7E (*)	489	2808	FLG R	Wind turbine
	10732	STORBLAIKEN	651550.1N 0171531.0E (*)	489	2851	FLG R	Wind turbine
	10733	STORBLAIKEN	651630.8N 0171453.3E (*)	489	2759	FLG R	Wind turbine
	10734	STORBLAIKEN	651614.8N 0171449.9E (*)	489	2841	FLG R	Wind turbine
	10735	STORBLAIKEN	651558.4N 0171451.2E (*)	489	2894	FLG R	Wind turbine
	10736	STORBLAIKEN	651541.0N 0171452.5E (*)	489	2782	FLG R	Wind turbine
	10737	STORBLAIKEN	651638.6N 0171412.6E (*)	489	2785	FLG R	Wind turbine
	10738	STORBLAIKEN	651622.1N 0171406.8E (*)	489	2841	FLG R	Wind turbine
	10739	STORBLAIKEN	651606.0N 0171410.4E (*)	489	2867	FLG R	Wind turbine
	10740	STORBLAIKEN	651628.6N 0171323.8E (*)	489	2874	FLG R	Wind turbine
	10741	STORBLAIKEN	651612.3N 0171306.8E (*)	489	2799	FLG R	Wind turbine
	10742	STORBLAIKEN	651642.3N 0171245.0E (*)	489	2841	FLG R	Wind turbine
	10743	STORBLAIKEN	651626.9N 0171231.3E (*)	489	2841	FLG R	Wind turbine
	10744	STORBLAIKEN	651638.4N 0171157.7E (*)	489	2802	FLG R	Wind turbine
	10745	STORBLAIKEN	651655.2N 0171118.6E (*)	489	2828	FLG R	Wind turbine
	10746	STORBLAIKEN	651714.6N 0171115.9E (*)	489	2802	FLG R	Wind turbine
	11302	STORBLAIKEN	651616.3N 0171740.0E (*)	489	2644	FLG R	Wind turbine
	11303	STORBLAIKEN	651624.5N 0171652.2E (*)	489	2628	FLG R	Wind turbine
	11304	STORBLAIKEN	651608.3N 0171659.6E (*)	489	2726	FLG R	Wind turbine
	11305	STORBLAIKEN	651632.2N 0171610.8E (*)	489	2631	FLG R	Wind turbine
	11306	STORBLAIKEN	651640.2N 0171530.3E (*)	489	2635	FLG R	Wind turbine
	11307	STORBLAIKEN	651651.7N 0171440.0E (*)	489	2638	FLG R	Wind turbine
	11308	STORBLAIKEN	651549.4N 0171413.0E (*)	489	2776	FLG R	Wind turbine
	11309	STORBLAIKEN	651701.0N 0171359.4E (*)	489	2644	FLG R	Wind turbine
	11310	STORBLAIKEN	651647.4N 0171330.4E (*)	489	2802	FLG R	Wind turbine
	11311	STORBLAIKEN	651557.4N 0171331.6E (*)	489	2769	FLG R	Wind turbine
	11312	STORBLAIKEN	651557.0N 0171245.6E (*)	489	2710	FLG R	Wind turbine
	11313	STORBLAIKEN	651657.7N 0171254.5E (*)	489	2746	FLG R	Wind turbine
	11314	STORBLAIKEN	651610.9N 0171220.7E (*)	489	2759	FLG R	Wind turbine
	11315	STORBLAIKEN	651654.3N 0171208.5E (*)	489	2782	FLG R	Wind turbine
	11316	STORBLAIKEN	651622.3N 0171140.5E (*)	489	2736	FLG R	Wind turbine
	11317	STORBLAIKEN	651714.4N 0171203.7E (*)	489	2766	FLG R	Wind turbine
	11318	STORBLAIKEN	651640.6N 0171058.2E (*)	489	2799	FLG R	Wind turbine
	11319	STORBLAIKEN	651728.8N 0171142.7E (*)	489	2769	FLG R	Wind turbine
	11320	STORBLAIKEN	651704.9N 0171040.0E (*)	489	2808	FLG R	Wind turbine
	11321	STORBLAIKEN	651650.4N 0171018.6E (*)	489	2769	FLG R	Wind turbine
	11322	STORBLAIKEN	651750.5N 0171115.0E (*)	489	2694	FLG R	Wind turbine
	11323	STORBLAIKEN	651735.1N 0171100.2E (*)	489	2789	FLG R	Wind turbine
	11324	STORBLAIKEN	651721.5N 0171034.9E (*)	489	2818	FLG R	Wind turbine
	11325	STORBLAIKEN	651705.3N 0170953.2E (*)	489	2776	FLG R	Wind turbine
	11326	STORBLAIKEN	651754.2N 0171028.7E (*)	489	2753	FLG R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	11327	STORBLAIKEN	651750.5N 0170942.9E (*)	489	2795	FLG R	Wind turbine
	11328	STORBLAIKEN	651738.7N 0171014.9E (*)	489	2802	FLG R	Wind turbine
	11329	STORBLAIKEN	651732.3N 0170932.4E (*)	489	2808	FLG R	Wind turbine
	11330	STORBLAIKEN	651731.5N 0170845.8E (*)	489	2812	FLG R	Wind turbine
	11331	STORBLAIKEN	651716.3N 0170832.2E (*)	489	2808	FLG R	Wind turbine
	12273	BLAIKEN	651710.8N 0171322.4E (*)	476	2615	FLG R	Wind turbine
	12274	BLAIKEN	651721.9N 0171245.5E (*)	476	2625	FLG R	Wind turbine
	12275	BLAIKEN	651624.0N 0171052.6E (*)	476	2680	FLG R	Wind turbine
	12276	BLAIKEN	651744.0N 0171157.8E (*)	476	2615	FLG R	Wind turbine
	12277	BLAIKEN	651628.3N 0171004.2E (*)	476	2664	FLG R	Wind turbine
	12278	BLAIKEN	651642.3N 0170936.4E (*)	476	2707	FLG R	Wind turbine
	12279	BLAIKEN	651630.4N 0170913.4E (*)	476	2618	FLG R	Wind turbine
	12280	BLAIKEN	651809.9N 0171045.0E (*)	476	2635	FLG R	Wind turbine
	12281	BLAIKEN	651806.3N 0170958.6E (*)	476	2710	FLG R	Wind turbine
	12282	BLAIKEN	651717.9N 0170920.7E (*)	476	2785	FLG R	Wind turbine
	12283	BLAIKEN	651700.3N 0171024.5E (*)	476	2782	FLG R	Wind turbine
	12284	BLAIKEN	651646.5N 0170848.7E (*)	476	2687	FLG R	Wind turbine
	12285	BLAIKEN	651819.7N 0170932.3E (*)	476	2582	FLG R	Wind turbine
	12286	BLAIKEN	651800.0N 0170904.6E (*)	476	2720	FLG R	Wind turbine
	12287	BLAIKEN	651744.6N 0170858.5E (*)	476	2776	FLG R	Wind turbine
	12288	BLAIKEN	651659.7N 0170817.6E (*)	476	2713	FLG R	Wind turbine
	12289	BLAIKEN	651647.4N 0170756.3E (*)	476	2651	FLG R	Wind turbine
	12290	BLAIKEN	651630.8N 0170759.7E (*)	476	2648	FLG R	Wind turbine
	12291	BLAIKEN	651812.0N 0170834.3E (*)	476	2648	FLG R	Wind turbine
	12292	BLAIKEN	651754.9N 0170816.7E (*)	476	2746	FLG R	Wind turbine
	12293	BLAIKEN	651739.2N 0170805.0E (*)	476	2785	FLG R	Wind turbine
	12294	BLAIKEN	651724.0N 0170751.1E (*)	476	2746	FLG R	Wind turbine
	12295	BLAIKEN	651706.2N 0170733.7E (*)	476	2690	FLG R	Wind turbine
	12296	BLAIKEN	651643.0N 0170712.8E (*)	476	2648	FLG R	Wind turbine
	12297	BLAIKEN	651823.5N 0170801.9E (*)	476	2657	FLG R	Wind turbine
	12298	BLAIKEN	651807.4N 0170746.9E (*)	476	2756	FLG R	Wind turbine
	12299	BLAIKEN	651748.8N 0170729.9E (*)	476	2769	FLG R	Wind turbine
	12300	BLAIKEN	651735.4N 0170717.5E (*)	476	2740	FLG R	Wind turbine
	12301	BLAIKEN	651718.7N 0170702.0E (*)	476	2677	FLG R	Wind turbine
	12302	BLAIKEN	651658.3N 0170652.3E (*)	476	2625	FLG R	Wind turbine
	12464	GRANBERGET	651755.6N 0171508.5E (*)	489	2572	FLG R	Wind turbine
	12465	GRANBERGET	651806.6N 0171509.6E (*)	489	2543	FLG R	Wind turbine
	12466	GRANBERGET	651748.6N 0171447.8E (*)	489	2566	FLG R	Wind turbine
	12467	GRANBERGET	651740.9N 0171425.3E (*)	489	2523	FLG R	Wind turbine
	12468	GRANBERGET	651754.4N 0171407.1E (*)	489	2552	FLG R	Wind turbine
	12469	GRANBERGET	651803.6N 0171414.5E (*)	489	2543	FLG R	Wind turbine
	12470	GRANBERGET	651823.6N 0171517.9E (*)	489	2530	FLG R	Wind turbine
	12471	GRANBERGET	651831.8N 0171535.4E (*)	489	2605	FLG R	Wind turbine
	12472	GRANBERGET	651841.2N 0171505.0E (*)	489	2589	FLG R	Wind turbine
	12823	BLAIKEN	651738.7N 0171251.5E (*)	476	2546	FLG R	Wind turbine
	12824	BLAIKEN	651800.7N 0171221.7E (*)	476	2552	FLG R	Wind turbine
	12825	BLAIKEN	651812.0N 0171131.7E (*)	476	2552	FLG R	Wind turbine
	12826	BLAIKEN	651823.2N 0171020.8E (*)	476	2585	FLG R	Wind turbine
	12827	BLAIKEN	651837.5N 0170954.2E (*)	476	2556	FLG R	Wind turbine
	12828	BLAIKEN	651828.0N 0170842.4E (*)	476	2615	FLG R	Wind turbine
	12829	BLAIKEN	651855.7N 0171344.6E (*)	476	2598	FLG R	Wind turbine
	12830	BLAIKEN	651848.9N 0171310.0E (*)	476	2579	FLG R	Wind turbine
	12831	BLAIKEN	651836.2N 0171240.3E (*)	476	2539	FLG R	Wind turbine
	16965	SLAKTARMYRAN	651506.6N 0174431.2E	407	2014	unknown	Mast
65N 18E	558	ARVIDSJÄUR/JULTRÄSK	653200.0N 0185921.5E	1076	3540	F R/FLG W	Mast
	10051	JOKKMOKKSLIDEN	651636.5N 0185724.0E	489	2162	FLG R	Wind turbine
	10052	JOKKMOKKSLIDEN	651648.1N 0185745.4E	489	2146	FLG R	Wind turbine
	10053	JOKKMOKKSLIDEN	651658.6N 0185716.8E	489	2165	FLG R	Wind turbine
	10054	JOKKMOKKSLIDEN	651708.1N 0185743.0E	489	2133	FLG R	Wind turbine
	10195	HORNBERGET	650505.9N 0183559.3E	410	2046	FLG R	Wind turbine
	10196	HORNBERGET	650512.4N 0183616.2E	410	2123	FLG R	Wind turbine
	10197	HORNBERGET	650519.7N 0183643.2E	410	2221	FLG R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	10198	HORNBERGET	650529.1N 0183653.1E	410	2244	FLG R	Wind turbine
	10199	HORNBERGET	650531.3N 0183715.6E	410	2156	FLG R	Wind turbine
	10348	STORLIDEN	651244.0N 0185514.5E	489	2146	FLG R	Wind turbine
	10349	STORLIDEN	651301.5N 0185521.5E	489	2093	FLG R	Wind turbine
	10350	STORLIDEN	651252.2N 0185444.9E	489	2047	FLG R	Wind turbine
	10351	STORLIDEN	651250.5N 0185547.6E	489	2077	FLG R	Wind turbine
	10352	STORLIDEN	651250.9N 0185403.6E	489	1916	FLG R	Wind turbine
	10353	STORLIDEN	651304.4N 0185344.1E	489	1896	FLG R	Wind turbine
	10354	STORLIDEN	651312.7N 0185414.0E	489	1936	FLG R	Wind turbine
	10355	STORLIDEN	651307.1N 0185446.7E	489	2047	FLG R	Wind turbine
	10412	NÄDAGUBBLIDEN	650655.7N 0184608.9E	354	1883	F R	Mast
	10432	NÄDAGUBBLIDEN	650628.4N 0183925.1E	492	2087	FLG R	Wind turbine
	10433	NÄDAGUBBLIDEN	650613.3N 0183955.2E	492	2054	FLG R	Wind turbine
	10434	NÄDAGUBBLIDEN	650634.3N 0184033.1E	492	2087	FLG R	Wind turbine
	10435	NÄDAGUBBLIDEN	650656.5N 0184018.6E	492	2093	FLG R	Wind turbine
	10436	NÄDAGUBBLIDEN	650644.7N 0184057.4E	492	2070	FLG R	Wind turbine
	10437	NÄDAGUBBLIDEN	650657.1N 0184130.5E	492	2024	FLG R	Wind turbine
	10438	NÄDAGUBBLIDEN	650702.9N 0184218.5E	492	2018	FLG R	Wind turbine
	10439	NÄDAGUBBLIDEN	650641.7N 0184238.8E	492	2037	FLG R	Wind turbine
	10440	NÄDAGUBBLIDEN	650651.6N 0184310.5E	492	2051	FLG R	Wind turbine
	10441	NÄDAGUBBLIDEN	650700.7N 0184340.4E	492	2064	FLG R	Wind turbine
	10442	NÄDAGUBBLIDEN	650653.0N 0184422.9E	492	2113	FLG R	Wind turbine
	10443	NÄDAGUBBLIDEN	650639.6N 0184454.8E	492	2159	FLG R	Wind turbine
	10444	NÄDAGUBBLIDEN	650624.6N 0184535.1E	492	2129	FLG R	Wind turbine
	10445	NÄDAGUBBLIDEN	650649.5N 0184600.0E	492	2037	FLG R	Wind turbine
	10446	NÄDAGUBBLIDEN	650652.1N 0184711.4E	492	2018	FLG R	Wind turbine
	10447	NÄDAGUBBLIDEN	650656.1N 0184808.3E	492	1998	FLG R	Wind turbine
	10448	NÄDAGUBBLIDEN	650640.0N 0184823.1E	492	2024	FLG R	Wind turbine
	10449	NÄDAGUBBLIDEN	650649.8N 0184913.5E	492	2016	FLG R	Wind turbine
	10450	NÄDAGUBBLIDEN	650627.3N 0185045.7E	492	2047	FLG R	Wind turbine
	10451	NÄDAGUBBLIDEN	650605.0N 0185111.8E	492	2018	FLG R	Wind turbine
	10452	NÄDAGUBBLIDEN	650645.0N 0183944.6E	492	2096	FLG R	Wind turbine
	10453	NÄDAGUBBLIDEN	650645.2N 0185006.5E	492	2034	FLG R	Wind turbine
	10488	HEMLIDEN	651526.3N 0185640.8E	489	2021	FLG R	Wind turbine
	10489	HEMLIDEN	651534.9N 0185710.4E	489	2008	FLG R	Wind turbine
	10490	JOKKMOKKSLIDEN	651624.3N 0185704.0E	489	2218	FLG R	Wind turbine
	10491	JOKKMOKKSLIDEN	651713.8N 0185823.4E	489	2080	FLG R	Wind turbine
	10492	TALLBERGET	651743.4N 0185737.9E	489	2067	FLG R	Wind turbine
	10493	TALLBERGET	651747.5N 0185659.9E	489	2093	FLG R	Wind turbine
	10973	ÄMLIDEN	650246.3N 0185830.1E	476	1873	FLG R	Wind turbine
	10974	ÄMLIDEN	650345.3N 0185845.2E	476	1916	FLG R	Wind turbine
	10976	ÄMLIDEN	650255.0N 0185854.7E	476	1880	FLG R	Wind turbine
	10982	ÄMLIDEN	650401.7N 0185943.5E	476	1893	FLG R	Wind turbine
	10983	ÄMLIDEN	650330.7N 0185959.1E	469	2026	FLG R	Wind turbine
	10984	ÄMLIDEN	650220.1N 0185911.9E	476	1984	FLG R	Wind turbine
	10985	ÄMLIDEN	650229.7N 0185830.9E	476	1911	FLG R	Wind turbine
	10986	ÄMLIDEN	650210.9N 0185818.5E	476	1919	FLG R	Wind turbine
	10987	ÄMLIDEN	650242.9N 0185937.6E	476	2070	FLG R	Wind turbine
	10988	ÄMLIDEN	650257.4N 0185953.5E	476	2070	FLG R	Wind turbine
	16990	ÄMLIDEN	650306.0N 0185917.3E	476	1928	unknown	Wind turbine
65N 19E	10468	ÄMLIDEN	650240.2N 0190023.1E	335	2093	FLG R	Wind turbine
	10964	ÄMLIDEN	650353.4N 0190044.9E	476	1903	FLG R	Wind turbine
	10965	ÄMLIDEN	650357.8N 0190114.9E	476	1877	FLG R	Wind turbine
	10966	ÄMLIDEN	650403.1N 0190139.0E	476	1867	FLG R	Wind turbine
	10967	ÄMLIDEN	650415.4N 0190205.0E	476	1854	FLG R	Wind turbine
	10968	ÄMLIDEN	650425.9N 0190221.3E	476	1867	FLG R	Wind turbine
	10969	ÄMLIDEN	650353.4N 0190350.5E	476	1926	FLG R	Wind turbine
	10970	ÄMLIDEN	650312.3N 0190236.0E	476	1962	FLG R	Wind turbine
	10971	ÄMLIDEN	650325.0N 0190326.9E	476	1883	FLG R	Wind turbine
	10972	ÄMLIDEN	650337.8N 0190344.9E	476	1919	FLG R	Wind turbine
	10977	ÄMLIDEN	650340.4N 0190113.8E	476	1909	FLG R	Wind turbine
	10978	ÄMLIDEN	650353.1N 0190233.4E	476	1880	FLG R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
65N 20E	10979	ÄMLIDEN	650410.2N 0190302.5E	476	1919	FLG R	Wind turbine
	10981	ÄMLIDEN	650339.1N 0190256.1E	476	1909	FLG R	Wind turbine
	10989	ÄMLIDEN	650315.1N 0190012.4E	476	2008	FLG R	Wind turbine
	10990	ÄMLIDEN	650301.2N 0190032.7E	476	2054	FLG R	Wind turbine
	10991	ÄMLIDEN	650315.5N 0190053.7E	476	1982	FLG R	Wind turbine
	10992	ÄMLIDEN	650252.3N 0190058.2E	476	2028	FLG R	Wind turbine
	14112	JÖRN	651244.0N 0195531.3E	666	2060	FLG W	Wind turbine
	14113	JÖRN	651230.8N 0195549.9E	666	2083	FLG W	Wind turbine
	14114	JÖRN	651219.4N 0195619.5E	722	2060	F R	Wind turbine
	14115	JÖRN	651204.1N 0195600.4E	722	2083	FLG W	Wind turbine
	14116	JÖRN	651214.2N 0195536.4E	722	2044	F R	Wind turbine
	14117	JÖRN	651137.6N 0195610.3E	722	2044	F R	Wind turbine
	14118	JÖRN	651128.4N 0195644.2E	722	2054	FLG W	Wind turbine
	14119	JÖRN	651114.8N 0195637.2E	722	2044	F R	Wind turbine
	14120	JÖRN	651103.4N 0195657.1E	722	1975	F R	Wind turbine
	14121	JÖRN	651052.6N 0195721.2E	722	1939	FLG W	Wind turbine
	16989	RIPMYRAN	650325.2N 0190201.3E	476	1926	unknown	Wind turbine
	9322	HULTET	652710.0N 0203049.9E	489	1732	FLG R	Wind turbine
	9323	HULTET	652700.6N 0203106.8E	489	1736	FLG R	Wind turbine
	9809	HULTET	652622.4N 0203117.6E	489	1668	FLG R	Wind turbine
	9810	HULTET	652615.9N 0203145.5E	489	1666	FLG R	Wind turbine
	9815	HULTET	652630.7N 0203054.9E	489	1673	FLG R	Wind turbine
	9842	HULTET	652702.6N 0203004.2E	489	1673	FLG R	Wind turbine
	9843	HULTET	652652.5N 0203022.9E	489	1703	FLG R	Wind turbine
	9844	HULTET	652642.7N 0203043.8E	489	1703	FLG R	Wind turbine
	9845	HULTET	652650.6N 0203125.4E	587	1844	FLG W	Wind turbine
	9846	HULTET	652643.7N 0203154.5E	489	1712	FLG R	Wind turbine
	9847	HULTET	652633.5N 0203219.3E	489	1693	FLG R	Wind turbine
	9848	HULTET	652627.6N 0203235.8E	587	1781	FLG W	Wind turbine
	11230	FJÄLLBODA	650019.0N 0201932.9E	335	1425	F R	Mast
	11384	KROKATRÄSKLIDEN	652907.4N 0204858.8E	397	1229	F R	Mast
	11389	SKOGBERGSLIDEN	652135.8N 0205537.2E	604	1385	FLG W	Wind turbine
	11390	SKOGBERGSLIDEN	652210.0N 0205530.1E	604	1509	F R	Wind turbine
	11391	SKOGBERGSLIDEN	652217.1N 0205604.0E	604	1421	F R	Wind turbine
	11392	SKOGBERGSLIDEN	652232.0N 0205543.6E	604	1460	F R	Wind turbine
	11393	SKOGBERGSLIDEN	652244.4N 0205514.6E	604	1555	F R	Wind turbine
	11394	SKOGBERGSLIDEN	652253.1N 0205444.6E	604	1591	F R	Wind turbine
	11395	SKOGBERGSLIDEN	652221.6N 0205458.7E	604	1509	F R	Wind turbine
	11448	SKOGBERGSLIDEN	652058.8N 0205946.6E	604	1135	FLG W	Wind turbine
	11449	SKOGBERGSLIDEN	652058.0N 0205853.1E	604	1230	F R	Wind turbine
	11450	SKOGBERGSLIDEN	652103.1N 0205808.3E	604	1296	F R	Wind turbine
	11451	SKOGBERGSLIDEN	652105.0N 0205724.6E	604	1312	FLG W	Wind turbine
	11452	SKOGBERGSLIDEN	652119.4N 0205736.2E	604	1335	F R	Wind turbine
	11453	SKOGBERGSLIDEN	652154.8N 0205608.7E	604	1450	F R	Wind turbine
	11454	SKOGBERGSLIDEN	652152.4N 0205529.5E	604	1473	F R	Wind turbine
	11455	SKOGBERGSLIDEN	652112.9N 0205655.5E	604	1306	F R	Wind turbine
	11456	SKOGBERGSLIDEN	652127.3N 0205703.4E	604	1394	FLG W	Wind turbine
	11457	SKOGBERGSLIDEN	652137.1N 0205626.7E	604	1437	FLG W	Wind turbine
	11458	SKOGBERGSLIDEN	652112.9N 0205553.1E	604	1312	FLG W	Wind turbine
	11491	SKOGBERGSLIDEN	652256.5N 0205409.2E	604	1572	F R	Wind turbine
	11492	SKOGBERGSLIDEN	652307.9N 0205432.5E	604	1572	F R	Wind turbine
	11493	SKOGBERGSLIDEN	652322.9N 0205423.5E	604	1506	FLG W	Wind turbine
11494	SKOGBERGSLIDEN	652313.0N 0205357.2E	604	1549	F R	Wind turbine	
11495	SKOGBERGSLIDEN	652325.4N 0205313.7E	604	1522	F R	Wind turbine	
11496	SKOGBERGSLIDEN	652252.2N 0205551.8E	604	1496	FLG W	Wind turbine	
11497	SKOGBERGSLIDEN	652314.9N 0205504.9E	604	1516	F R	Wind turbine	
11498	SKOGBERGSLIDEN	652237.0N 0205422.0E	604	1877	F R	Wind turbine	
11499	SKOGBERGSLIDEN	652245.9N 0205337.5E	604	1565	F R	Wind turbine	
11500	SKOGBERGSLIDEN	652250.5N 0205302.4E	604	1545	FLG W	Wind turbine	
11501	SKOGBERGSLIDEN	652304.4N 0205318.6E	604	1552	F R	Wind turbine	
11591	SKOGBERGSLIDEN	652300.1N 0205237.1E	604	1506	F R	Wind turbine	
11592	SKOGBERGSLIDEN	652315.7N 0205242.8E	604	1562	F R	Wind turbine	

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	11593	SKOGBERGLIDEN	652328.2N 0205216.5E	604	1509	F R	Wind turbine
	11594	SKOGBERGLIDEN	652324.8N 0205135.9E	604	1467	FLG W	Wind turbine
	11648	SKOGBERGLIDEN	652300.2N 0205520.2E	604	1604	F R/FLG W	Wind turbine
	11649	SKOGBERGLIDEN	652316.0N 0205057.5E	604	1457	F R/FLG W	Wind turbine
	11650	SKOGBERGLIDEN	652326.9N 0205036.8E	604	1430	F R/FLG W	Wind turbine
	12868	MYRHEDEN	652101.6N 0200602.7E	410	1740	F R	Mast
	12875	ALDERMYRBERGET	650805.8N 0200546.1E	492	1864	F R	Mast
	12909	STORLIDEN	652528.2N 0203932.6E	623	1864	F R	Wind turbine
	12913	STORLIDEN	652427.2N 0204025.3E	623	1896	F R	Wind turbine
	12914	STORLIDEN	652556.4N 0203943.6E	623	1775	F R	Wind turbine
	12941	STORLIDEN	652554.8N 0203840.4E	623	1821	F R	Wind turbine
	12942	STORLIDEN	652543.0N 0203907.4E	623	1831	F R	Wind turbine
	12943	STORLIDEN	652540.0N 0204006.0E	623	1847	F R	Wind turbine
	12944	STORLIDEN	652453.2N 0203929.8E	623	1919	F R	Wind turbine
	12945	STORLIDEN	652412.7N 0204059.0E	623	1860	F R	Wind turbine
	12954	STORLIDEN	652402.9N 0204126.2E	623	1831	F R	Wind turbine
	12981	STORLIDEN	652438.7N 0203951.9E	623	1900	F R	Wind turbine
	12982	STORLIDEN	652602.0N 0203634.6E	623	1900	F R	Wind turbine
	12983	STORLIDEN	652551.0N 0203729.4E	623	1864	F R	Wind turbine
	12984	STORLIDEN	652506.3N 0203808.1E	623	1857	F R	Wind turbine
	12985	STORLIDEN	652537.0N 0203708.0E	623	1860	F R	Wind turbine
	12986	STORLIDEN	652453.5N 0203832.2E	623	1857	F R	Wind turbine
	12987	STORLIDEN	652442.1N 0203900.0E	623	1867	F R	Wind turbine
	12988	STORLIDEN	652540.9N 0203803.4E	623	1854	F R	Wind turbine
	12989	STORLIDEN	652508.0N 0203909.4E	623	1883	F R	Wind turbine
	12990	STORLIDEN	652523.2N 0203833.9E	623	1854	F R	Wind turbine
	13004	LÄNGTRÅSK	652704.3N 0202349.0E	586	986	FLG W	Wind turbine
	13005	LÄNGTRÅSK	652728.7N 0202302.9E	586	1027	FLG W	Wind turbine
	13120	STORLIDEN	652430.0N 0203833.1E	623	1824	F R	Wind turbine
	13122	STORLIDEN	652509.5N 0203729.6E	623	1834	F R	Wind turbine
	13123	STORLIDEN	652628.4N 0203910.0E	623	1690	F R	Wind turbine
	13124	STORLIDEN	652613.4N 0203810.2E	623	1814	F R	Wind turbine
	13125	STORLIDEN	652612.9N 0203906.5E	623	1736	F R	Wind turbine
	13140	SVARTLIDEN	652044.9N 0204609.8E	656	1572	F R	Wind turbine
	13141	SVARTLIDEN	652054.1N 0204512.0E	656	1545	F R	Wind turbine
	13142	SVARTLIDEN	652104.3N 0204426.3E	656	1555	F R	Wind turbine
	13143	SVARTLIDEN	652111.3N 0204505.1E	656	1713	F R	Wind turbine
	13144	SVARTLIDEN	652120.9N 0204431.1E	656	1686	F R	Wind turbine
	13145	SVARTLIDEN	652130.9N 0204357.2E	656	1690	FLG W	Wind turbine
	13146	SVARTLIDEN	652142.6N 0204432.6E	656	1801	FLG W	Wind turbine
	13147	SVARTLIDEN	652128.8N 0204508.4E	656	1755	F R	Wind turbine
	13148	SVARTLIDEN	652118.1N 0204543.2E	656	1739	F R	Wind turbine
	13149	SVARTLIDEN	652111.0N 0204624.1E	656	1693	F R	Wind turbine
	13150	SVARTLIDEN	652054.0N 0204647.0E	656	1709	FLG W	Wind turbine
	13151	SVARTLIDEN	652129.6N 0204311.7E	656	1604	F R	Wind turbine
	13152	SVARTLIDEN	652132.6N 0204229.2E	656	1588	F R	Wind turbine
	13153	SVARTLIDEN	652049.6N 0205039.9E	656	1463	FLG W	Wind turbine
	13154	SVARTLIDEN	652100.9N 0205013.5E	656	1532	F R	Wind turbine
	13155	SVARTLIDEN	652118.2N 0205040.1E	656	1542	F R	Wind turbine
	13156	SVARTLIDEN	652115.6N 0204954.0E	656	1581	F R	Wind turbine
	13157	SVARTLIDEN	652123.9N 0204911.9E	656	1654	F R	Wind turbine
	13158	SVARTLIDEN	652133.3N 0205019.7E	656	1594	F R	Wind turbine
	13159	SVARTLIDEN	652147.3N 0204959.4E	656	1631	F R	Wind turbine
	13160	SVARTLIDEN	652141.5N 0204917.1E	656	1677	F R	Wind turbine
	13161	SVARTLIDEN	652142.7N 0204834.3E	656	1706	F R	Wind turbine
	13162	SVARTLIDEN	652157.6N 0204814.0E	656	1680	F R	Wind turbine
	13163	SVARTLIDEN	652300.3N 0204758.3E	656	1627	F R	Wind turbine
	13164	SVARTLIDEN	652300.8N 0204837.3E	656	1594	F R	Wind turbine
	13165	SVARTLIDEN	652316.2N 0204816.4E	656	1562	F R	Wind turbine
	13166	SVARTLIDEN	652311.8N 0204913.5E	656	1529	F R	Wind turbine
	13167	SVARTLIDEN	652248.9N 0204907.7E	656	1591	F R	Wind turbine
	13168	SVARTLIDEN	652250.6N 0204947.8E	656	1545	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13169	SVARTLIDEN	652304.9N 0205007.8E	656	1467	F R	Wind turbine
	13170	SVARTLIDEN	652234.6N 0204938.1E	656	1598	F R	Wind turbine
	13171	SVARTLIDEN	652245.6N 0205027.0E	656	1539	F R	Wind turbine
	13172	SVARTLIDEN	652239.5N 0205103.6E	656	1509	F R	Wind turbine
	13173	SVARTLIDEN	652219.2N 0204954.9E	656	1667	F R	Wind turbine
	13174	SVARTLIDEN	652203.1N 0204943.1E	656	1663	F R	Wind turbine
	13175	SVARTLIDEN	652227.4N 0205030.6E	656	1617	F R	Wind turbine
	13176	SVARTLIDEN	652219.5N 0205106.2E	656	1673	F R	Wind turbine
	13177	SVARTLIDEN	652206.0N 0205129.6E	656	1608	F R	Wind turbine
	13178	SVARTLIDEN	652200.2N 0205210.3E	656	1499	F R	Wind turbine
	13179	SVARTLIDEN	652204.8N 0205028.1E	656	1683	FLG W	Wind turbine
	13180	SVARTLIDEN	652153.9N 0205100.9E	656	1693	F R	Wind turbine
	13181	SVARTLIDEN	652136.2N 0205100.6E	656	1696	FLG W	Wind turbine
	13182	SVARTLIDEN	652123.1N 0205129.6E	656	1644	F R	Wind turbine
	13183	SVARTLIDEN	652113.5N 0205202.9E	656	1555	F R	Wind turbine
	13184	SVARTLIDEN	652054.3N 0205237.3E	656	1506	F R	Wind turbine
	13185	SVARTLIDEN	652100.4N 0205137.4E	656	1512	F R	Wind turbine
	13186	SVARTLIDEN	652103.4N 0205057.6E	656	1496	FLG W	Wind turbine
	13187	SVARTLIDEN	652143.0N 0205141.7E	656	1617	F R	Wind turbine
	13188	SVARTLIDEN	652130.7N 0205222.8E	656	1512	F R	Wind turbine
	13189	SVARTLIDEN	652116.6N 0205244.7E	656	1483	F R	Wind turbine
	13190	SVARTLIDEN	652126.7N 0205319.2E	656	1378	F R	Wind turbine
	13191	SVARTLIDEN	652105.8N 0205313.0E	656	1437	F R	Wind turbine
	13192	SVARTLIDEN	652214.9N 0205303.7E	656	1411	F R	Wind turbine
	13193	SVARTLIDEN	652232.3N 0205251.5E	656	1440	F R	Wind turbine
	13194	SVARTLIDEN	652207.1N 0205342.7E	656	1497	F R	Wind turbine
	13195	SVARTLIDEN	652158.9N 0205422.9E	656	1512	F R	Wind turbine
	13196	SVARTLIDEN	652143.2N 0205450.3E	656	1437	F R	Wind turbine
	13197	SVARTLIDEN	652217.4N 0205414.4E	656	1555	F R	Wind turbine
	13198	SVARTLIDEN	652227.4N 0205337.9E	656	1526	F R	Wind turbine
	13199	SVARTLIDEN	652150.1N 0205341.5E	656	1417	FLG W	Wind turbine
	13324	SVARTLIDEN	652316.2N 0204726.5E	656	1575	F R	Wind turbine
	13325	SVARTLIDEN	652331.2N 0204744.9E	656	1532	FLG W	Wind turbine
	13330	SVARTLIDEN	652208.3N 0204740.0E	656	1663	F R	Wind turbine
	13331	SVARTLIDEN	652220.3N 0204710.4E	656	1644	F R	Wind turbine
	13332	SVARTLIDEN	652207.6N 0204850.9E	656	1693	F R	Wind turbine
	13333	SVARTLIDEN	652225.5N 0204854.2E	656	1680	F R	Wind turbine
	13334	SVARTLIDEN	652236.6N 0204658.0E	656	1650	F R	Wind turbine
	13386	STORLIDEN	652313.0N 0204019.5E	656	1759	FLG W	Wind turbine
	13387	STORLIDEN	652312.2N 0204105.8E	656	1844	F R	Wind turbine
	13389	STORLIDEN	652328.3N 0204050.3E	656	1877	F R	Wind turbine
	13390	STORLIDEN	652340.8N 0204019.4E	656	1857	F R	Wind turbine
	13391	STORLIDEN	652353.5N 0203952.9E	656	1854	F R	Wind turbine
	13392	STORLIDEN	652323.3N 0204149.4E	656	1867	F R	Wind turbine
	13393	STORLIDEN	652358.7N 0203913.3E	656	1795	FLG W	Wind turbine
	13394	STORLIDEN	652417.1N 0203948.4E	656	1900	F R	Wind turbine
	13395	STORLIDEN	652406.2N 0204020.5E	656	1900	F R	Wind turbine
	13396	STORLIDEN	652353.8N 0204049.4E	656	1893	F R	Wind turbine
	13397	STORLIDEN	652343.9N 0204124.7E	656	1867	F R	Wind turbine
	13398	STORLIDEN	652348.7N 0204204.3E	656	1814	F R	Wind turbine
	13399	STORLIDEN	652417.9N 0204145.4E	656	1811	F R	Wind turbine
	13400	STORLIDEN	652406.5N 0204215.6E	656	1777	F R	Wind turbine
	13401	STORLIDEN	652354.0N 0204243.6E	656	1760	F R	Wind turbine
	13402	STORLIDEN	652350.5N 0204342.3E	656	1695	FLG W	Wind turbine
	13403	STORLIDEN	652407.0N 0204333.6E	656	1678	F R	Wind turbine
	13404	STORLIDEN	652412.5N 0204255.8E	656	1719	F R	Wind turbine
	13405	STORLIDEN	652423.0N 0204222.9E	656	1744	F R	Wind turbine
	13406	STORLIDEN	652437.5N 0204152.1E	656	1765	F R	Wind turbine
	13407	STORLIDEN	652445.4N 0204116.5E	656	1821	F R	Wind turbine
	13408	STORLIDEN	652454.1N 0204041.6E	656	1860	F R	Wind turbine
	13409	STORLIDEN	652506.2N 0204013.3E	656	1901	F R	Wind turbine
	13410	STORLIDEN	652523.8N 0204017.5E	656	1860	FLG W	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13411	STORLIDEN	652513.5N 0204051.9E	656	1818	F R	Wind turbine
	13412	STORLIDEN	652506.4N 0204128.7E	656	1778	F R	Wind turbine
	13413	STORLIDEN	652540.2N 0204048.8E	656	1816	F R	Wind turbine
	13414	STORLIDEN	652525.6N 0204141.7E	656	1747	F R	Wind turbine
	13415	STORLIDEN	652456.9N 0204247.5E	656	1693	F R	Wind turbine
	13416	STORLIDEN	652505.6N 0204212.3E	656	1719	F R	Wind turbine
	13417	STORLIDEN	652436.3N 0204254.3E	656	1691	F R	Wind turbine
	13418	STORLIDEN	652440.2N 0204339.1E	656	1650	F R	Wind turbine
	13419	STORLIDEN	652423.8N 0204329.5E	656	1678	F R	Wind turbine
	13420	STORLIDEN	652427.5N 0204409.0E	656	1631	F R	Wind turbine
	13421	STORLIDEN	652445.1N 0204418.6E	656	1599	F R	Wind turbine
	13422	STORLIDEN	652421.7N 0204445.9E	656	1594	F R	Wind turbine
	13423	STORLIDEN	652411.1N 0204415.1E	656	1642	F R	Wind turbine
	13424	STORLIDEN	652353.5N 0204436.0E	656	1637	F R	Wind turbine
	13425	STORLIDEN	652406.5N 0204501.4E	656	1604	F R	Wind turbine
	13426	STORLIDEN	652402.5N 0204540.1E	656	1562	F R	Wind turbine
	13427	STORLIDEN	652422.9N 0204532.8E	656	1559	F R	Wind turbine
	13428	STORLIDEN	652422.1N 0204612.9E	656	1522	F R	Wind turbine
	13429	STORLIDEN	652438.8N 0204613.1E	656	1507	FLG W	Wind turbine
	13430	STORLIDEN	652452.6N 0204547.6E	656	1542	F R	Wind turbine
	13431	STORLIDEN	652436.7N 0204509.1E	656	1577	F R	Wind turbine
	13432	STORLIDEN	652453.6N 0204507.0E	656	1601	F R	Wind turbine
	13433	STORLIDEN	652504.9N 0204433.1E	656	1652	F R	Wind turbine
	13434	STORLIDEN	652459.1N 0204347.7E	656	1640	F R	Wind turbine
	13435	STORLIDEN	652517.9N 0204401.5E	656	1706	F R	Wind turbine
	13436	STORLIDEN	652523.9N 0204315.5E	656	1712	F R	Wind turbine
	13437	STORLIDEN	652534.6N 0204235.2E	656	1739	F R	Wind turbine
	13438	STORLIDEN	652548.4N 0204259.4E	656	1791	F R	Wind turbine
	13439	STORLIDEN	652559.3N 0204221.2E	656	1798	F R	Wind turbine
	13440	STORLIDEN	652600.8N 0204114.2E	656	1752	F R	Wind turbine
	13441	STORLIDEN	652548.4N 0204148.4E	656	1771	F R	Wind turbine
	13442	STORLIDEN	652539.0N 0204338.3E	656	1744	F R	Wind turbine
	13443	STORLIDEN	652534.6N 0204418.0E	656	1696	F R	Wind turbine
	13444	STORLIDEN	652521.3N 0204442.6E	656	1657	F R	Wind turbine
	13445	STORLIDEN	652534.4N 0204508.2E	656	1594	F R	Wind turbine
	13446	STORLIDEN	652511.6N 0204512.9E	656	1613	F R	Wind turbine
	13447	STORLIDEN	652518.2N 0204552.1E	656	1613	F R	Wind turbine
	13448	STORLIDEN	652535.1N 0204548.5E	656	1527	FLG W	Wind turbine
	13449	STORLIDEN	652558.6N 0204512.1E	656	1570	F R	Wind turbine
	13450	SKOGBERGLIDEN	652123.7N 0205822.1E	656	1273	F R	Wind turbine
	13451	SKOGBERGLIDEN	652115.9N 0205859.6E	656	1217	FLG W	Wind turbine
	13452	SKOGBERGLIDEN	652142.8N 0205802.0E	656	1283	F R	Wind turbine
	13453	SKOGBERGLIDEN	652138.8N 0205844.4E	656	1198	F R	Wind turbine
	13454	SKOGBERGLIDEN	652156.0N 0205830.5E	656	1211	FLG W	Wind turbine
	13455	SKOGBERGLIDEN	652142.4N 0205721.4E	656	1358	FLG W	Wind turbine
	13456	SKOGBERGLIDEN	652158.0N 0205743.7E	656	1286	F R	Wind turbine
	13457	SKOGBERGLIDEN	652156.9N 0205653.6E	656	1378	F R	Wind turbine
	13458	SKOGBERGLIDEN	652216.5N 0205650.1E	656	1352	F R	Wind turbine
	13459	SKOGBERGLIDEN	652240.6N 0205622.3E	656	1446	F R	Wind turbine
	13460	SKOGBERGLIDEN	652239.3N 0205710.8E	656	1293	F R	Wind turbine
	13461	SKOGBERGLIDEN	652223.8N 0205725.9E	656	1286	F R	Wind turbine
	13462	SKOGBERGLIDEN	652251.9N 0205637.9E	656	1352	F R	Wind turbine
	13463	SKOGBERGLIDEN	652308.1N 0205616.8E	656	1372	F R	Wind turbine
	13464	SKOGBERGLIDEN	652315.8N 0205653.4E	656	1276	FLG W	Wind turbine
	13465	SKOGBERGLIDEN	652325.1N 0205619.6E	656	1299	F R	Wind turbine
	13466	SKOGBERGLIDEN	652325.3N 0205538.6E	656	1411	F R	Wind turbine
	13467	SKOGBERGLIDEN	652342.4N 0205537.8E	656	1316	F R	Wind turbine
	13468	SKOGBERGLIDEN	652331.5N 0205458.0E	656	1434	F R	Wind turbine
	13469	SKOGBERGLIDEN	652340.0N 0205422.2E	656	1434	F R	Wind turbine
	13470	SKOGBERGLIDEN	652342.3N 0205334.6E	656	1463	F R	Wind turbine
	13471	SKOGBERGLIDEN	652340.6N 0205253.6E	656	1509	F R	Wind turbine
	13472	SKOGBERGLIDEN	652312.3N 0205203.1E	656	1568	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13473	SKOGBERGSLIDEN	652346.2N 0205133.8E	656	1444	FLG W	Wind turbine
	13474	SKOGBERGSLIDEN	652345.5N 0205215.0E	656	1454	F R	Wind turbine
	13475	SKOGBERGSLIDEN	652355.7N 0205449.8E	656	1339	F R	Wind turbine
	13476	SKOGBERGSLIDEN	652405.5N 0205533.5E	656	1234	FLG W	Wind turbine
	13477	SKOGBERGSLIDEN	652353.7N 0205613.3E	656	1247	F R	Wind turbine
	13478	SKOGBERGSLIDEN	652408.9N 0205622.2E	656	1224	F R	Wind turbine
	13479	SKOGBERGSLIDEN	652354.0N 0205649.6E	656	1250	F R	Wind turbine
	13480	SKOGBERGSLIDEN	652409.1N 0205711.8E	656	1217	F R	Wind turbine
	13481	SKOGBERGSLIDEN	652402.3N 0205747.9E	656	1214	FLG W	Wind turbine
	13482	SVARTLIDEN	652147.5N 0204350.2E	656	1808	F R	Wind turbine
	13483	SVARTLIDEN	652158.2N 0204321.6E	656	1831	FLG W	Wind turbine
	13484	SVARTLIDEN	652100.4N 0204552.6E	656	1673	F R	Wind turbine
	13485	SVARTLIDEN	652218.6N 0204817.1E	656	1729	F R	Wind turbine
	13486	SVARTLIDEN	652240.6N 0204824.5E	656	1673	F R	Wind turbine
	13487	SVARTLIDEN	652231.9N 0204744.2E	656	1778	F R	Wind turbine
	13488	SVARTLIDEN	652247.9N 0204728.2E	656	1726	F R	Wind turbine
	13489	SVARTLIDEN	652301.7N 0204703.4E	656	1693	FLG W	Wind turbine
	13490	STORLIDEN	652552.4N 0204426.1E	656	1647	F R	Wind turbine
	13491	STORLIDEN	652611.9N 0204447.6E	656	1578	F R	Wind turbine
	13492	STORLIDEN	652626.2N 0204425.4E	656	1558	FLG W	Wind turbine
	13493	STORLIDEN	652632.6N 0204351.2E	656	1594	F R	Wind turbine
	13494	STORLIDEN	652620.7N 0204328.7E	656	1686	F R	Wind turbine
	13495	STORLIDEN	652634.5N 0204302.0E	656	1690	F R	Wind turbine
	13496	STORLIDEN	652700.2N 0204318.0E	656	1588	FLG W	Wind turbine
	13497	STORLIDEN	652555.9N 0204025.8E	656	1755	FLG W	Wind turbine
	13498	STORLIDEN	652646.6N 0204344.1E	656	1587	F R	Wind turbine
	13885	STORLIDEN	652628.1N 0203720.8E	650	1839	F R	Wind turbine
	13886	STORLIDEN	652616.5N 0203659.6E	650	1883	F R	Wind turbine
	13887	STORLIDEN	652618.0N 0203621.6E	650	1932	F R	Wind turbine
	13888	STORLIDEN	652630.5N 0203645.5E	650	1870	F R	Wind turbine
	13889	STORLIDEN	652646.2N 0203651.0E	650	1823	F R	Wind turbine
	13890	STORLIDEN	652639.7N 0203610.0E	650	1890	F R	Wind turbine
	13891	STORLIDEN	652610.4N 0203733.8E	650	1863	F R	Wind turbine
	13892	STORLIDEN	652629.3N 0203822.8E	650	1768	F R	Wind turbine
	13893	STORLIDEN	652642.0N 0203727.3E	650	1786	F R	Wind turbine
	13894	STORLIDEN	652701.7N 0203721.0E	650	1706	F R	Wind turbine
	13895	STORLIDEN	652659.1N 0203634.0E	650	1781	F R	Wind turbine
	13896	STORLIDEN	652649.2N 0203846.0E	650	1697	F R	Wind turbine
	13942	STORLIDEN	652704.1N 0203815.2E	650	1684	F R	Wind turbine
	13943	STORLIDEN	652723.5N 0203726.6E	650	1606	F R	Wind turbine
	13944	STORLIDEN	652712.7N 0203657.0E	650	1684	FLG W	Wind turbine
	13945	STORLIDEN	652629.7N 0203542.3E	650	1926	F R	Wind turbine
	13946	STORLIDEN	652726.4N 0203814.1E	650	1612	F R	Wind turbine
	13947	STORLIDEN	652445.2N 0203755.8E	650	1836	F R	Wind turbine
	13948	STORLIDEN	652551.3N 0203552.8E	650	1886	F R	Wind turbine
	13949	STORLIDEN	652531.8N 0203612.1E	650	1841	FLG W	Wind turbine
	13950	STORLIDEN	652523.1N 0203646.8E	650	1842	F R	Wind turbine
	13951	STORLIDEN	652615.2N 0203528.8E	650	1916	FLG W	Wind turbine
	14022	LÄNGTRÅSK	652716.3N 0202233.4E	656	2051	FLG W	Wind turbine
	14130	S BRÄNNTRÅSK	653436.9N 0201827.8E	591	2051	FLG W	Wind turbine
	14131	ALDERMYRBERGET	650909.6N 0200628.6E	755	1969	FLG W	Wind turbine
	14132	ALDERMYRBERGET	650858.6N 0200637.7E	755	1969	F R	Wind turbine
	14133	ALDERMYRBERGET	650845.3N 0200718.4E	755	2073	FLG W	Wind turbine
	14134	ALDERMYRBERGET	650836.2N 0200435.7E	755	1886	F R	Wind turbine
	14135	ALDERMYRBERGET	650834.5N 0200356.1E	755	1831	FLG W	Wind turbine
	14136	ALDERMYRBERGET	650834.0N 0200634.2E	755	2146	F R	Wind turbine
	14137	ALDERMYRBERGET	650823.3N 0200601.6E	755	2208	F R	Wind turbine
	14138	ALDERMYRBERGET	650824.2N 0200637.1E	755	2198	F R	Wind turbine
	14139	ALDERMYRBERGET	650810.7N 0200614.7E	755	2185	F R	Wind turbine
	14140	ALDERMYRBERGET	650811.8N 0200453.7E	755	1972	F R	Wind turbine
	14141	ALDERMYRBERGET	650800.5N 0200654.9E	755	2014	F R	Wind turbine
	14142	ALDERMYRBERGET	650801.7N 0200540.9E	755	2113	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	14143	ALDERMYRBERGET	650755.8N 0200624.7E	755	2080	F R	Wind turbine
	14144	ALDERMYRBERGET	650741.6N 0200652.0E	755	1975	FLG W	Wind turbine
	14145	ALDERMYRBERGET	650740.8N 0200626.0E	755	2060	F R	Wind turbine
	14146	ALDERMYRBERGET	650738.3N 0200415.9E	755	1972	FLG W	Wind turbine
	14147	ALDERMYRBERGET	650734.9N 0200527.8E	755	1873	FLG W	Wind turbine
	14155	S BRÄNNTRÄSK	653511.0N 0201751.6E	656	1808	F R	Wind turbine
	14156	S BRÄNNTRÄSK	653520.9N 0201845.8E	656	1775	FLG W	Wind turbine
	14157	S BRÄNNTRÄSK	653506.8N 0201831.6E	656	1909	F R	Wind turbine
	14158	S BRÄNNTRÄSK	653454.5N 0201753.7E	656	1952	F R	Wind turbine
	14159	S BRÄNNTRÄSK	653450.9N 0201830.1E	656	2024	F R	Wind turbine
	14160	S BRÄNNTRÄSK	653444.3N 0201712.4E	656	1831	F R	Wind turbine
	14161	S BRÄNNTRÄSK	653440.1N 0201747.9E	656	2031	F R	Wind turbine
	14162	S BRÄNNTRÄSK	653427.6N 0201720.0E	656	1900	FLG W	Wind turbine
	14163	S BRÄNNTRÄSK	653423.6N 0201755.8E	591	2024	FLG W	Wind turbine
	14164	S BRÄNNTRÄSK	653410.6N 0201653.0E	656	1903	FLG W	Wind turbine
	14165	S BRÄNNTRÄSK	653409.6N 0201733.3E	656	2005	FLG W	Wind turbine
	14166	S BRÄNNTRÄSK	653407.2N 0201807.0E	591	2051	FLG W	Wind turbine
	14167	S BRÄNNTRÄSK	653357.0N 0201700.9E	656	1975	FLG W	Wind turbine
	14168	S BRÄNNTRÄSK	653348.3N 0201728.5E	591	2028	F R	Wind turbine
	14169	S BRÄNNTRÄSK	653340.0N 0201755.8E	591	2044	FLG W	Wind turbine
	14170	S BRÄNNTRÄSK	653336.0N 0201657.6E	591	2057	F R	Wind turbine
	14171	S BRÄNNTRÄSK	653502.6N 0201327.3E	591	2024	FLG W	Wind turbine
	14172	S BRÄNNTRÄSK	653453.3N 0201355.1E	656	1985	F R	Wind turbine
	14173	S BRÄNNTRÄSK	653447.3N 0201427.8E	656	1926	F R	Wind turbine
	14174	S BRÄNNTRÄSK	653434.4N 0201401.8E	656	1936	F R	Wind turbine
	14175	S BRÄNNTRÄSK	653413.6N 0201349.9E	656	1978	FLG W	Wind turbine
	14176	S BRÄNNTRÄSK	653411.7N 0201428.0E	656	1886	F R	Wind turbine
	14177	S BRÄNNTRÄSK	653405.1N 0201457.1E	656	1913	F R	Wind turbine
	14178	S BRÄNNTRÄSK	653356.6N 0201524.6E	656	1942	F R	Wind turbine
	14179	S BRÄNNTRÄSK	653350.8N 0201419.1E	656	1893	F R	Wind turbine
	14180	S BRÄNNTRÄSK	653345.1N 0201452.7E	656	1919	F R	Wind turbine
	14181	S BRÄNNTRÄSK	653345.9N 0201547.4E	656	2005	F R	Wind turbine
	14182	S BRÄNNTRÄSK	653335.0N 0201517.6E	656	1972	F R	Wind turbine
	14183	S BRÄNNTRÄSK	653332.4N 0201557.3E	656	2067	F R	Wind turbine
	14184	S BRÄNNTRÄSK	653321.5N 0201523.3E	656	2051	F R	Wind turbine
	14185	S BRÄNNTRÄSK	653318.2N 0201607.5E	591	2044	F R	Wind turbine
	14186	S BRÄNNTRÄSK	653312.9N 0201428.3E	656	1913	F R	Wind turbine
	14187	S BRÄNNTRÄSK	653305.2N 0201505.4E	656	2037	F R	Wind turbine
	14188	S BRÄNNTRÄSK	653259.1N 0201538.9E	591	2047	F R	Wind turbine
	14189	S BRÄNNTRÄSK	653247.1N 0201606.1E	591	2047	F R	Wind turbine
	14190	S BRÄNNTRÄSK	653236.1N 0201623.5E	591	2005	F R	Wind turbine
	14191	S BRÄNNTRÄSK	653227.2N 0201648.8E	656	2011	F R	Wind turbine
	14192	S BRÄNNTRÄSK	653219.8N 0201720.7E	656	1962	F R	Wind turbine
	14193	S BRÄNNTRÄSK	653208.1N 0201736.1E	656	1942	FLG W	Wind turbine
	14194	S BRÄNNTRÄSK	653251.0N 0201459.9E	656	1998	F R	Wind turbine
	14195	S BRÄNNTRÄSK	653230.6N 0201543.2E	656	2037	F R	Wind turbine
	14196	S BRÄNNTRÄSK	653221.0N 0201607.2E	656	1985	F R	Wind turbine
	14197	S BRÄNNTRÄSK	653213.0N 0201642.0E	656	1962	F R	Wind turbine
	14198	S BRÄNNTRÄSK	653237.4N 0201441.3E	656	1877	F R	Wind turbine
	14199	S BRÄNNTRÄSK	653226.4N 0201502.5E	656	1890	FLG W	Wind turbine
	14200	S BRÄNNTRÄSK	653234.4N 0201126.5E	591	2034	FLG W	Wind turbine
	14201	S BRÄNNTRÄSK	653149.8N 0200920.9E	591	2031	F R	Wind turbine
	14202	S BRÄNNTRÄSK	653221.1N 0200925.3E	591	2051	FLG W	Wind turbine
	14203	S BRÄNNTRÄSK	653222.0N 0201011.9E	591	2034	F R	Wind turbine
	14239	KLÖVERFORS	650515.8N 0203519.1E	492	1614	F R	Mast
	14829	FAGERHEDEN	651855.4N 0205027.6E	656	1603	F R	Wind turbine
	14830	FAGERHEDEN	651838.3N 0205048.8E	656	1618	F R	Wind turbine
	14831	FAGERHEDEN	651817.5N 0205048.8E	656	1618	F R	Wind turbine
	14832	FAGERHEDEN	651807.1N 0205122.2E	656	1622	F R	Wind turbine
	14833	FAGERHEDEN	651802.6N 0205200.9E	656	1627	F R	Wind turbine
	14834	FAGERHEDEN	651849.8N 0205203.4E	656	1668	F R	Wind turbine
	14835	FAGERHEDEN	651905.5N 0205217.9E	656	1600	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	14836	FAGERHEDEN	651845.2N 0205248.5E	656	1660	F R	Wind turbine
	14837	FAGERHEDEN	651832.0N 0205303.0E	656	1709	F R	Wind turbine
	14838	FAGERHEDEN	651836.4N 0205337.2E	656	1646	FLG W	Wind turbine
	14839	FAGERHEDEN	651814.9N 0205342.4E	656	1635	F R	Wind turbine
	14840	FAGERHEDEN	651706.4N 0205341.8E	656	1559	F R	Wind turbine
	14841	FAGERHEDEN	651744.4N 0205440.2E	656	1544	F R	Wind turbine
	14842	FAGERHEDEN	651800.1N 0205427.3E	656	1578	FLG W	Wind turbine
	14843	FAGERHEDEN	651817.6N 0205422.6E	656	1601	F R	Wind turbine
	14844	FAGERHEDEN	651655.8N 0205237.5E	656	1507	F R	Wind turbine
	14845	FAGERHEDEN	651644.2N 0205304.4E	656	1521	FLG W	Wind turbine
	14846	FAGERHEDEN	651645.4N 0205411.3E	656	1524	F R	Wind turbine
	14847	FAGERHEDEN	651634.9N 0205338.4E	656	1501	F R	Wind turbine
	14848	FAGERHEDEN	651623.6N 0205434.9E	656	1475	F R	Wind turbine
	14849	FAGERHEDEN	651638.5N 0205458.1E	656	1499	F R	Wind turbine
	14850	FAGERHEDEN	651625.1N 0205550.3E	656	1470	F R	Wind turbine
	14851	FAGERHEDEN	651729.2N 0205418.3E	656	1601	F R	Wind turbine
	14852	FAGERHEDEN	651720.5N 0205506.9E	656	1514	F R	Wind turbine
	14853	FAGERHEDEN	651718.1N 0205543.3E	656	1492	F R	Wind turbine
	14854	FAGERHEDEN	651701.5N 0205524.4E	656	1491	F R	Wind turbine
	14855	FAGERHEDEN	651648.1N 0205614.8E	656	1478	F R	Wind turbine
	14856	FAGERHEDEN	651655.2N 0205656.0E	656	1456	FLG W	Wind turbine
	14857	FAGERHEDEN	651611.2N 0205521.8E	656	1446	FLG W	Wind turbine
	14858	FAGERHEDEN	651602.9N 0205604.3E	656	1457	FLG W	Wind turbine
	14951	PITEÅ	651559.2N 0205534.2E	381	1145	F R	Mast
	14952	PITEÅ	652110.7N 0203549.6E	381	1453	F R	Mast
	14953	PITEÅ	652208.5N 0203711.4E	381	1467	F R	Mast
	15096	BOLIDEN	650002.2N 0202018.9E	656	1755	FLG R	Wind turbine
	15097	BOLIDEN	650018.2N 0201927.9E	656	1752	FLG W	Wind turbine
	15098	BOLIDEN	650002.9N 0201907.1E	656	1739	FLG R	Wind turbine
	15099	BOLIDEN	650042.7N 0201917.2E	656	1713	FLG R	Wind turbine
	15100	BOLIDEN	650033.9N 0201831.3E	656	1713	FLG R	Wind turbine
	15101	BOLIDEN	650057.9N 0201834.5E	656	1732	FLG W	Wind turbine
	15102	BOLIDEN	650106.2N 0201708.3E	656	1667	FLG W	Wind turbine
	15103	BOLIDEN	650044.0N 0201729.9E	656	1686	FLG W	Wind turbine
	15104	FAGERHEDEN	651933.8N 0204943.8E	656	1545	FLG W	Wind turbine
	15105	FAGERHEDEN	651919.0N 0204842.9E	656	1604	F R	Wind turbine
	15106	FAGERHEDEN	651913.5N 0205003.4E	656	1592	F R	Wind turbine
	15107	FAGERHEDEN	651744.5N 0205135.0E	656	1564	F R	Wind turbine
	15108	FAGERHEDEN	651730.4N 0205201.9E	656	1547	F R	Wind turbine
	15109	FAGERHEDEN	651718.2N 0205229.4E	656	1552	F R	Wind turbine
	15110	FAGERHEDEN	651726.3N 0205309.5E	656	1588	F R	Wind turbine
	15111	FAGERHEDEN	651928.2N 0205033.1E	656	1578	F R	Wind turbine
	15112	FAGERHEDEN	651918.0N 0205144.9E	656	1582	FLG W	Wind turbine
	15113	FAGERHEDEN	651913.8N 0205059.4E	656	1612	F R	Wind turbine
	15114	FAGERHEDEN	651858.6N 0205123.0E	656	1633	F R	Wind turbine
	15115	FAGERHEDEN	651751.3N 0205328.6E	656	1605	F R	Wind turbine
	15116	FAGERHEDEN	651633.6N 0205635.9E	656	1443	F R	Wind turbine
	15117	FAGERHEDEN	651631.7N 0205715.3E	656	1429	F R	Wind turbine
	15118	FAGERHEDEN	651640.8N 0205737.2E	656	1439	F R	Wind turbine
	15119	FAGERHEDEN	651555.0N 0205850.3E	656	1385	F R	Wind turbine
	15120	FAGERHEDEN	651538.3N 0205915.5E	656	1340	FLG W	Wind turbine
	15121	FAGERHEDEN	651618.4N 0205901.1E	656	1380	FLG W	Wind turbine
	15122	FAGERHEDEN	651547.8N 0205816.9E	656	1380	F R	Wind turbine
	15123	FAGERHEDEN	651603.7N 0205744.9E	656	1407	F R	Wind turbine
	15124	FAGERHEDEN	651914.6N 0204653.9E	656	1688	FLG W	Wind turbine
	15125	FAGERHEDEN	651902.8N 0204727.0E	656	1679	F R	Wind turbine
	15126	FAGERHEDEN	651832.6N 0204808.7E	656	1718	F R	Wind turbine
	15127	FAGERHEDEN	651815.7N 0204730.0E	656	1763	F R	Wind turbine
	15128	FAGERHEDEN	651805.7N 0204758.4E	656	1747	F R	Wind turbine
	15129	FAGERHEDEN	651816.9N 0204912.7E	656	1639	F R	Wind turbine
	15130	FAGERHEDEN	651832.2N 0204930.9E	656	1597	FLG W	Wind turbine
	15131	FAGERHEDEN	651758.0N 0204846.5E	656	1743	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	15132	FAGERHEDEN	651749.1N 0204816.5E	656	1767	F R	Wind turbine
	15133	FAGERHEDEN	651741.9N 0204853.5E	656	1728	F R	Wind turbine
	15134	FAGERHEDEN	651750.2N 0204934.6E	656	1684	F R	Wind turbine
	15135	FAGERHEDEN	651731.1N 0204934.7E	656	1655	F R	Wind turbine
	15136	FAGERHEDEN	651721.5N 0205000.7E	656	1617	FLG W	Wind turbine
	15137	FAGERHEDEN	651712.0N 0205032.6E	656	1572	F R	Wind turbine
	15138	FAGERHEDEN	651855.0N 0204519.6E	656	1785	F R	Wind turbine
	15139	FAGERHEDEN	651847.5N 0204617.1E	656	1773	F R	Wind turbine
	15140	FAGERHEDEN	651841.3N 0204720.0E	656	1731	F R	Wind turbine
	15141	FAGERHEDEN	651923.0N 0204501.2E	656	1800	F R	Wind turbine
	15142	FAGERHEDEN	651911.7N 0204531.2E	656	1781	F R	Wind turbine
	15292	ÄLVSBYN	652705.3N 0204111.1E	653	1748	F R	Wind turbine
	15293	ÄLVSBYN	652704.0N 0204110.8E	653	1736	F R	Wind turbine
	15294	ÄLVSBYN	652701.7N 0204212.2E	653	1683	F R	Wind turbine
	15295	ÄLVSBYN	652650.4N 0204130.3E	653	1755	F R	Wind turbine
	15296	ÄLVSBYN	652646.9N 0204227.2E	653	1701	F R	Wind turbine
	15297	ÄLVSBYN	652632.7N 0204136.6E	653	1763	F R	Wind turbine
	15298	ÄLVSBYN	652734.3N 0203907.7E	653	1628	FLG W	Wind turbine
	15299	ÄLVSBYN	652727.7N 0204001.9E	653	1670	F R	Wind turbine
	15300	ÄLVSBYN	652625.4N 0204003.8E	653	1726	F R	Wind turbine
	15301	ÄLVSBYN	652616.9N 0204036.7E	653	1765	F R	Wind turbine
	15302	ÄLVSBYN	652643.2N 0204007.8E	653	1752	F R	Wind turbine
	15303	ÄLVSBYN	652700.8N 0203938.1E	653	1742	F R	Wind turbine
	15304	ÄLVSBYN	652713.3N 0203918.1E	653	1707	F R	Wind turbine
	15305	ÄLVSBYN	652713.6N 0204016.2E	653	1726	F R	Wind turbine
	15306	ÄLVSBYN	652656.7N 0204038.3E	653	1768	F R	Wind turbine
	15307	ÄLVSBYN	652740.5N 0204057.3E	653	1643	F R	Wind turbine
	15308	ÄLVSBYN	652735.5N 0204133.8E	653	1649	FLG W	Wind turbine
	15309	ÄLVSBYN	652718.6N 0204238.5E	653	1605	FLG W	Wind turbine
	15310	ÄLVSBYN	652619.1N 0204243.2E	653	1748	FLG W	Wind turbine
	15311	ÄLVSBYN	652632.6N 0204216.9E	653	1772	F R	Wind turbine
	15351	LÄNGTRÄSK	652331.0N 0203620.1E	656	1936	FLG W	Wind turbine
	15352	LÄNGTRÄSK	652323.7N 0203719.4E	656	1978	F R	Wind turbine
	15353	LÄNGTRÄSK	652317.2N 0203640.7E	656	1919	F R	Wind turbine
	15354	LÄNGTRÄSK	652312.3N 0203746.8E	656	1932	FLG W	Wind turbine
	15355	LÄNGTRÄSK	652303.8N 0203702.9E	656	1932	FLG W	Wind turbine
	15356	LÄNGTRÄSK	652254.0N 0203743.1E	656	1932	F R	Wind turbine
	15357	LÄNGTRÄSK	652211.8N 0203735.8E	656	1706	F R	Wind turbine
	15358	LÄNGTRÄSK	652157.9N 0203709.4E	656	1706	F R	Wind turbine
	15359	LÄNGTRÄSK	652157.2N 0203753.5E	656	1706	FLG W	Wind turbine
	15360	LÄNGTRÄSK	652142.9N 0203650.1E	656	1752	F R	Wind turbine
	15361	LÄNGTRÄSK	652135.9N 0203735.8E	656	1791	F R	Wind turbine
	15362	LÄNGTRÄSK	652128.9N 0203811.9E	656	1795	F R	Wind turbine
	15363	LÄNGTRÄSK	652114.9N 0203826.4E	656	1827	F R	Wind turbine
	15364	LÄNGTRÄSK	652116.1N 0203742.4E	656	1834	F R	Wind turbine
	15365	LÄNGTRÄSK	652117.4N 0203702.8E	656	1762	F R	Wind turbine
	15366	LÄNGTRÄSK	652124.2N 0203602.6E	656	1713	FLG W	Wind turbine
	15367	LÄNGTRÄSK	652100.1N 0203613.1E	656	1686	F R	Wind turbine
	15368	LÄNGTRÄSK	652054.8N 0203705.9E	656	1693	F R	Wind turbine
	15369	LÄNGTRÄSK	652101.9N 0203757.1E	656	1693	F R	Wind turbine
	15370	LÄNGTRÄSK	652107.3N 0203902.3E	656	1768	FLG W	Wind turbine
	15371	LÄNGTRÄSK	652056.0N 0203927.1E	656	1768	F R	Wind turbine
	15372	LÄNGTRÄSK	652045.4N 0203955.0E	656	1703	F R	Wind turbine
	15373	LÄNGTRÄSK	652053.5N 0203848.2E	656	1706	F R	Wind turbine
	15374	LÄNGTRÄSK	652040.3N 0203651.5E	656	1673	F R	Wind turbine
	15375	LÄNGTRÄSK	652024.4N 0203720.2E	656	1742	F R	Wind turbine
	15376	LÄNGTRÄSK	652015.6N 0203645.2E	656	1627	FLG W	Wind turbine
	15377	LÄNGTRÄSK	652017.2N 0203757.6E	656	1795	F R	Wind turbine
	15378	LÄNGTRÄSK	652008.1N 0203727.9E	656	1795	F R	Wind turbine
	15379	LÄNGTRÄSK	652000.7N 0203805.2E	656	1778	F R	Wind turbine
	15380	LÄNGTRÄSK	652007.7N 0203841.5E	656	1749	F R	Wind turbine
	15381	LÄNGTRÄSK	651956.1N 0203902.8E	656	1745	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	15382	LÄNGTRÄSK	652000.5N 0203947.0E	656	1667	F R	Wind turbine
	15383	LÄNGTRÄSK	651952.6N 0204024.2E	656	1650	F R	Wind turbine
	15384	LÄNGTRÄSK	652033.6N 0204131.9E	656	1693	FLG W	Wind turbine
	15385	LÄNGTRÄSK	652019.4N 0204206.2E	656	1693	F R	Wind turbine
	15386	LÄNGTRÄSK	652009.3N 0204117.5E	656	1627	F R	Wind turbine
	15387	LÄNGTRÄSK	651957.0N 0204159.4E	656	1634	F R	Wind turbine
	15388	LÄNGTRÄSK	651943.4N 0204250.2E	656	1667	F R	Wind turbine
	15389	LÄNGTRÄSK	651946.6N 0204338.3E	656	1752	F R	Wind turbine
	15390	LÄNGTRÄSK	651946.5N 0204417.9E	656	1811	FLG W	Wind turbine
	15391	LÄNGTRÄSK	651931.2N 0203824.6E	656	1594	FLG W	Wind turbine
	15392	LÄNGTRÄSK	651923.7N 0203909.4E	656	1601	F R	Wind turbine
	15393	LÄNGTRÄSK	651929.2N 0204003.9E	656	1637	F R	Wind turbine
	15394	LÄNGTRÄSK	651922.5N 0204102.4E	656	1627	F R	Wind turbine
	15395	LÄNGTRÄSK	651901.0N 0203959.4E	656	1539	FLG W	Wind turbine
	15396	LÄNGTRÄSK	651906.2N 0204046.5E	656	1591	F R	Wind turbine
	15397	LÄNGTRÄSK	651858.9N 0204138.3E	656	1601	F R	Wind turbine
	15398	LÄNGTRÄSK	651845.5N 0204114.4E	656	1578	F R	Wind turbine
	15399	LÄNGTRÄSK	651830.9N 0204137.3E	656	1555	F R	Wind turbine
	15400	LÄNGTRÄSK	651820.1N 0204210.9E	656	1549	FLG W	Wind turbine
	15401	LÄNGTRÄSK	651814.6N 0204252.0E	656	1545	FLG W	Wind turbine
	15402	LÄNGTRÄSK	651813.1N 0204335.8E	656	1542	F R	Wind turbine
	15403	LÄNGTRÄSK	651841.4N 0204236.7E	656	1575	F R	Wind turbine
	15404	LÄNGTRÄSK	651918.3N 0204229.6E	656	1644	F R	Wind turbine
	15405	LÄNGTRÄSK	651921.5N 0204336.2E	656	1706	F R	Wind turbine
	15406	LÄNGTRÄSK	651922.8N 0204420.4E	656	1808	F R	Wind turbine
	15407	LÄNGTRÄSK	651907.1N 0204436.5E	656	1775	F R	Wind turbine
	15408	LÄNGTRÄSK	651902.4N 0204337.7E	656	1660	F R	Wind turbine
	15409	LÄNGTRÄSK	651839.0N 0204402.6E	656	1634	F R	Wind turbine
	15410	LÄNGTRÄSK	651849.6N 0204448.1E	656	1749	F R	Wind turbine
	15411	LÄNGTRÄSK	651825.8N 0204437.5E	656	1696	F R	Wind turbine
	15412	LÄNGTRÄSK	651834.6N 0204515.8E	656	1772	F R	Wind turbine
	15413	LÄNGTRÄSK	651814.7N 0204500.7E	656	1762	F R	Wind turbine
	15414	LÄNGTRÄSK	651821.9N 0204537.1E	656	1781	F R	Wind turbine
	15415	LÄNGTRÄSK	651759.6N 0204525.8E	656	1736	F R	Wind turbine
	15416	LÄNGTRÄSK	651806.7N 0204629.3E	656	1788	F R	Wind turbine
	15417	LÄNGTRÄSK	651751.8N 0204606.6E	656	1719	FLG W	Wind turbine
	15418	LÄNGTRÄSK	651755.7N 0204652.6E	656	1778	F R	Wind turbine
	15453	S BRÄNNTRÄSK	653500.8N 0201506.6E	656	1818	FLG W	Wind turbine
	15454	S BRÄNNTRÄSK	653225.0N 0201150.8E	656	1818	F R	Wind turbine
	15455	S BRÄNNTRÄSK	653201.1N 0201224.8E	656	1923	F R	Wind turbine
	15456	S BRÄNNTRÄSK	653124.4N 0201207.4E	656	1900	FLG W	Wind turbine
	15457	S BRÄNNTRÄSK	653135.4N 0201147.5E	656	1919	F R	Wind turbine
	15458	S BRÄNNTRÄSK	653144.7N 0201122.4E	656	1952	F R	Wind turbine
	15459	S BRÄNNTRÄSK	653121.9N 0201024.8E	656	1923	FLG W	Wind turbine
	15460	S BRÄNNTRÄSK	653157.9N 0201038.0E	656	2028	F R	Wind turbine
	15461	S BRÄNNTRÄSK	653145.8N 0200957.1E	656	2028	F R	Wind turbine
	15462	S BRÄNNTRÄSK	653135.3N 0200925.1E	656	2034	F R	Wind turbine
	15463	S BRÄNNTRÄSK	653138.5N 0200758.5E	656	2110	FLG W	Wind turbine
	15464	S BRÄNNTRÄSK	653144.3N 0200724.6E	656	2093	F R	Wind turbine
	15465	S BRÄNNTRÄSK	653157.7N 0200709.7E	656	2047	FLG W	Wind turbine
	15494	STORBLÄLIDEN	652704.5N 0202303.7E	656	1972	FLG W	Wind turbine
	15495	STORBLÄLIDEN	652731.6N 0202209.2E	656	2008	FLG W	Wind turbine
	15496	STORBLÄLIDEN	652757.8N 0202258.4E	656	2024	FLG W	Wind turbine
	15756	STORLIDEN	652425.9N 0203912.7E	620	1837	F R	Wind turbine
	15925	STORBÄCKEN	653149.3N 0201005.8E	420	1755	unknown	Mast
	15926	STORSLYET	653011.0N 0202306.2E	417	1706	unknown	Mast
	15927	BASTATJÄRNEN	652813.3N 0202610.4E	404	1533	unknown	Mast
	15928	HÄSTBERGET	653310.1N 0201856.3E	397	1949	unknown	Mast
	15929	SVANAMYRAN	653403.0N 0201517.0E	417	1703	unknown	Mast
	16801	NILSDALSSLYET	652429.4N 0204101.3E	623	1838	unknown	Wind turbine
65N 21E	569	BODEN/ÄLVSBYN	654116.9N 0211557.2E	1066	1965	F R/FLG W	Mast
	10264	BONDÖN	651215.5N 0214255.7E	443	449	FLG R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	10265	BONDÖN	651229.2N 0214234.9E	443	463	FLG R	Wind turbine
	10266	BONDÖN	651312.8N 0214131.5E	443	463	FLG R	Wind turbine
	10267	BONDÖN	651320.3N 0214158.3E	443	466	FLG R	Wind turbine
	10268	BONDÖN	651225.5N 0214349.1E	443	466	FLG R	Wind turbine
	10269	BONDÖN	651240.2N 0214328.2E	443	466	FLG R	Wind turbine
	10270	BONDÖN	651254.6N 0214309.7E	443	472	FLG R	Wind turbine
	10271	BONDÖN	651243.8N 0214213.9E	443	459	FLG R	Wind turbine
	10272	BONDÖN	651259.1N 0214154.8E	443	469	FLG R	Wind turbine
	10273	BONDÖN	651222.3N 0214323.6E	443	472	FLG R	Wind turbine
	10274	BONDÖN	651241.1N 0214253.2E	443	469	FLG R	Wind turbine
	10275	BONDÖN	651300.4N 0214227.0E	443	482	FLG R	Wind turbine
	10276	BONDÖN	651309.0N 0214249.0E	443	469	FLG R	Wind turbine
	10277	BONDÖN	651323.3N 0214229.2E	443	456	FLG R	Wind turbine
	16344	BONDÖN	651305.4N 0214204.0E	397	433	unknown	Mast
65N 22E	573	LULEÅ/SINKSUNDSBERGET	653650.8N 0221208.2E	354	572	F R	Mast
65N 23E	576	HAPARANDA/LÅNGTRÅSK	655616.0N 0233058.2E	1066	1364	F R/FLG W	Mast
	8114	BÅTSKÅRSNÄS	654643.0N 0232329.4E	335	380	F R	Wind turbine
	9375	STORÖN	654235.6N 0230510.9E	328	364	F R	Wind turbine
	11161	SESKARÖ	654309.9N 0234229.8E	328	385	F R	Wind turbine
	11162	SESKARÖ	654308.0N 0234307.1E	328	374	F R	Wind turbine
	11163	SESKARÖ	654306.0N 0234345.1E	328	393	F R	Wind turbine
	11164	SESKARÖ	654254.2N 0234321.8E	328	371	F R	Wind turbine
	11165	SESKARÖ	654255.9N 0234249.2E	328	388	F R	Wind turbine
	16812	GALTVIKBERGET	654651.8N 0232309.5E	492	559	unknown	Wind turbine
	16813	GALTVIKBERGET	654659.0N 0232250.9E	492	522	unknown	Wind turbine
66N 19E	1010	LIGGA	664835.5N 0195434.2E	344	1136	F R	Mast
66N 20E	590	VUOLLERIM	662652.6N 0204235.2E	351	1340	F R	Mast
66N 22E	610	ÖVERKALIX	661804.3N 0225112.0E	1083	1414	F R/FLG W	Mast
	10160	STORMUGGBERGET	662043.5N 0221330.9E	331	1207	F R	Mast
	13234	LEHTIROVA	665852.3N 0220606.2E	604	1814	FLG W	Wind turbine
	13235	LEHTIROVA	665833.2N 0220531.8E	604	1716	FLG W	Wind turbine
	13236	LEHTIROVA	665834.3N 0220624.8E	604	1745	F R	Wind turbine
	13237	LEHTIROVA	665834.3N 0220854.3E	604	1732	FLG W	Wind turbine
	13238	LEHTIROVA	665820.3N 0220924.4E	604	1660	F R	Wind turbine
	13239	LEHTIROVA	665756.7N 0220931.2E	604	1654	FLG W	Wind turbine
	13240	LEHTIROVA	665758.7N 0220806.9E	604	1821	F R	Wind turbine
	13241	LEHTIROVA	665739.4N 0220822.5E	604	1726	F R	Wind turbine
	13242	LEHTIROVA	665725.9N 0220850.8E	604	1654	FLG W	Wind turbine
	14411	NIEMISEL	661945.8N 0220547.9E	417	1378	F R	Mast
	14412	NIEMISEL	661833.4N 0221205.2E	417	1263	F R	Mast
66N 23E	7583	ETU-AAPUA	665056.1N 0232704.5E	390	1526	F R	Wind turbine
	7584	ETU-AAPUA	665049.5N 0232720.1E	390	1542	F R	Wind turbine
	7585	ETU-AAPUA	665041.3N 0232722.3E	390	1512	F R	Wind turbine
	7586	ETU-AAPUA	665025.9N 0232739.4E	390	1604	F R	Wind turbine
	7587	ETU-AAPUA	665017.4N 0232740.9E	390	1612	F R	Wind turbine
	7588	ETU-AAPUA	664958.1N 0232740.8E	390	1670	F R	Wind turbine
	7589	ETU-AAPUA	664948.9N 0232748.1E	390	1683	F R	Wind turbine
	11889	KORPILOMBOLO	665315.1N 0231846.2E	587	1512	FLG W	Wind turbine
	11890	KORPILOMBOLO	665300.0N 0231914.5E	587	1490	F R	Wind turbine
	11891	KORPILOMBOLO	665247.8N 0231946.6E	587	1473	F R	Wind turbine
	11892	KORPILOMBOLO	665305.2N 0232032.3E	587	1555	F R	Wind turbine
	11893	KORPILOMBOLO	665247.2N 0232033.9E	587	1572	F R	Wind turbine
	11894	KORPILOMBOLO	665228.9N 0232030.7E	587	1516	F R	Wind turbine
	11895	KORPILOMBOLO	665215.5N 0232053.8E	587	1457	FLG W	Wind turbine
	11896	KORPILOMBOLO	665303.2N 0232116.3E	587	1581	FLG W	Wind turbine
	11897	KORPILOMBOLO	665245.8N 0232129.2E	587	1496	F R	Wind turbine
	11898	KORPILOMBOLO	665244.8N 0232309.0E	587	1506	FLG W	Wind turbine
	11899	KORPILOMBOLO	665226.9N 0232325.0E	587	1509	F R	Wind turbine
	11900	KORPILOMBOLO	665210.7N 0232340.6E	587	1436	FLG W	Wind turbine
	11901	KORPILOMBOLO	665132.9N 0231659.7E	587	1572	FLG W	Wind turbine
	11902	KORPILOMBOLO	665125.5N 0231739.9E	587	1490	F R	Wind turbine
	11903	KORPILOMBOLO	665114.8N 0231655.9E	587	1539	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	11904	KORPILOMBOLO	665058.2N 0231631.4E	587	1542	FLG W	Wind turbine
	11905	KORPILOMBOLO	665056.8N 0231715.2E	587	1637	F R	Wind turbine
	11906	KORPILOMBOLO	665048.6N 0231748.8E	587	1552	FLG W	Wind turbine
	11907	KORPILOMBOLO	665032.0N 0231722.3E	587	1621	F R	Wind turbine
	11908	KORPILOMBOLO	665013.8N 0231707.7E	587	1539	F R	Wind turbine
	11909	KORPILOMBOLO	665001.6N 0231732.2E	587	1473	FLG W	Wind turbine
	11910	KORPILOMBOLO	665017.9N 0231832.5E	587	1572	F R	Wind turbine
	11911	KORPILOMBOLO	665000.0N 0231833.8E	587	1496	F R	Wind turbine
	11912	KORPILOMBOLO	664957.6N 0231915.0E	587	1496	FLG W	Wind turbine
	12718	KORPILOMBOLO	665626.5N 0231823.5E	597	1621	FLG W	Wind turbine
	12719	KORPILOMBOLO	665622.0N 0231907.8E	597	1562	F R	Wind turbine
	12720	KORPILOMBOLO	665618.2N 0231959.0E	597	1565	FLG W	Wind turbine
	12721	KORPILOMBOLO	665601.0N 0232011.1E	597	1650	F R	Wind turbine
	12722	KORPILOMBOLO	665548.4N 0232042.8E	597	1677	F R	Wind turbine
	12723	KORPILOMBOLO	665531.1N 0232054.9E	597	1558	F R	Wind turbine
	12724	KORPILOMBOLO	665515.6N 0232115.1E	597	1467	FLG W	Wind turbine
	12725	KORPILOMBOLO	665555.5N 0231823.3E	597	1555	FLG W	Wind turbine
	12726	KORPILOMBOLO	665544.3N 0231859.2E	597	1650	F R	Wind turbine
	12727	KORPILOMBOLO	665527.5N 0231920.4E	597	1624	FLG W	Wind turbine
67N 20E	618	KIRUNA/KIRUNAVAARA	675001.0N 0201108.7E	709	2919	F R/FLG W	Mast
	620	GÄLLIVARE/DUNDRET	670556.7N 0203641.2E	518	2971	F R/FLG W	Mast
	10903	SJISKA	673659.4N 0200841.4E	427	2566	FLG R	Wind turbine
	10904	SJISKA	673656.0N 0200811.2E	427	2448	FLG R	Wind turbine
	10905	SJISKA	673711.7N 0200827.8E	427	2589	F R	Wind turbine
	10906	SJISKA	673718.0N 0200802.8E	427	2569	FLG R	Wind turbine
	10907	SJISKA	673723.8N 0200734.2E	427	2454	FLG R	Wind turbine
	10908	SJISKA	673727.5N 0200704.6E	427	2392	FLG R	Wind turbine
	10909	SJISKA	673734.1N 0200635.7E	427	2343	FLG R	Wind turbine
	10910	SJISKA	673742.6N 0200612.7E	427	2310	FLG R	Wind turbine
	10911	SJISKA	673750.9N 0200640.9E	427	2526	F R	Wind turbine
	10912	SJISKA	673800.8N 0200607.3E	427	2310	FLG R	Wind turbine
	10913	SJISKA	673758.4N 0200706.3E	427	2375	FLG R	Wind turbine
	10914	SJISKA	673745.9N 0200709.9E	427	2408	F R	Wind turbine
	10915	SJISKA	673748.6N 0200740.5E	427	2434	F R	Wind turbine
	10916	SJISKA	673757.9N 0200815.4E	427	2441	FLG R	Wind turbine
	10917	SJISKA	673800.6N 0200846.4E	427	2464	FLG R	Wind turbine
	10918	SJISKA	673803.5N 0200956.7E	427	2415	FLG R	Wind turbine
	10919	SJISKA	673743.2N 0200811.5E	427	2500	F R	Wind turbine
	10920	SJISKA	673735.7N 0200835.6E	427	2569	F R	Wind turbine
	10921	SJISKA	673743.4N 0200859.9E	427	2572	F R	Wind turbine
	10922	SJISKA	673741.6N 0201001.5E	427	2628	FLG R	Wind turbine
	10923	SJISKA	673736.1N 0200924.4E	427	2674	F R	Wind turbine
	10924	SJISKA	673725.1N 0200943.6E	427	2717	FLG R	Wind turbine
	10925	SJISKA	673714.1N 0200950.6E	427	2785	FLG R	Wind turbine
	10926	SJISKA	673711.2N 0200919.8E	427	2690	F R	Wind turbine
	10927	SJISKA	673656.7N 0200914.4E	427	2559	FLG R	Wind turbine
	10928	SJISKA	673653.6N 0200944.7E	427	2562	FLG R	Wind turbine
	10929	SJISKA	673646.4N 0201008.2E	427	2569	FLG R	Wind turbine
	10930	SJISKA	673657.4N 0201018.8E	427	2566	FLG R	Wind turbine
	10931	SJISKA	673717.6N 0200853.5E	427	2635	F R	Wind turbine
	10932	SJISKA	673748.1N 0200934.8E	427	2562	F R	Wind turbine
67N 21E	16710	LINBANETOPPEN	670557.4N 0203640.3E	351	2806	unknown	Mast
	10344	KUUSIVAARA	672859.7N 0215717.3E	328	1609	F R	Mast
	13202	LEHTIROVA	670957.1N 0215948.6E	604	1959	FLG W	Wind turbine
	16519	ROMUPUOLINEN	675334.2N 0210620.3E	341	1320	unknown	Mast
67N 22E	13203	LEHTIROVA	670945.1N 0220017.6E	604	1929	F R	Wind turbine
	13204	LEHTIROVA	670933.0N 0220045.6E	604	1916	F R	Wind turbine
	13205	LEHTIROVA	670917.1N 0220104.1E	604	1896	F R	Wind turbine
	13206	LEHTIROVA	670906.9N 0220137.8E	604	1860	FLG W	Wind turbine
	13207	LEHTIROVA	670955.8N 0220635.6E	604	1768	FLG W	Wind turbine
	13208	LEHTIROVA	670945.0N 0220705.2E	604	1847	F R	Wind turbine
	13209	LEHTIROVA	670932.3N 0220732.4E	604	1909	F R	Wind turbine

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13210	LEHTIROVA	670918.0N 0220757.3E	604	1808	F R	Wind turbine
	13211	LEHTIROVA	670906.8N 0220828.7E	604	1709	FLG W	Wind turbine
	13212	LEHTIROVA	670913.2N 0220657.3E	604	1880	F R	Wind turbine
	13213	LEHTIROVA	670851.4N 0220701.5E	604	1841	FLG W	Wind turbine
	13214	LEHTIROVA	670834.5N 0220721.6E	604	1808	F R	Wind turbine
	13215	LEHTIROVA	670818.3N 0220741.9E	604	1752	FLG W	Wind turbine
	13216	LEHTIROVA	670445.4N 0220539.7E	604	1726	FLG W	Wind turbine
	13217	LEHTIROVA	670426.8N 0220505.7E	604	1818	F R	Wind turbine
	13218	LEHTIROVA	670413.4N 0220537.6E	604	1729	F R	Wind turbine
	13219	LEHTIROVA	670352.0N 0220548.6E	604	1729	F R	Wind turbine
	13220	LEHTIROVA	670334.3N 0220613.4E	604	1722	FLG W	Wind turbine
	13221	LEHTIROVA	670458.9N 0220234.0E	604	1867	FLG W	Wind turbine
	13222	LEHTIROVA	670453.2N 0220317.5E	604	1818	F R	Wind turbine
	13223	LEHTIROVA	670431.9N 0220242.3E	604	1870	F R	Wind turbine
	13224	LEHTIROVA	670421.2N 0220315.9E	604	1837	F R	Wind turbine
	13225	LEHTIROVA	670410.7N 0220221.4E	604	1749	FLG W	Wind turbine
	13226	LEHTIROVA	670400.3N 0220318.0E	604	1890	F R	Wind turbine
	13227	LEHTIROVA	670340.5N 0220335.7E	604	1824	F R	Wind turbine
	13228	LEHTIROVA	670328.8N 0220407.8E	604	1749	FLG W	Wind turbine
	13229	LEHTIROVA	670331.6N 0220204.0E	604	1755	F R	Wind turbine
	13230	LEHTIROVA	670324.6N 0220244.4E	604	1755	F R	Wind turbine
	13231	LEHTIROVA	670313.0N 0220138.3E	604	1791	FLG W	Wind turbine
	13232	LEHTIROVA	670119.0N 0220128.8E	604	1900	FLG W	Wind turbine
	13233	LEHTIROVA	670122.7N 0220215.4E	604	1791	FLG W	Wind turbine
	13963	TÄRENDÖ	670810.2N 0222252.7E	502	1564	F R	Mast
67N 23E	628	PAJALA 2	671642.6N 0231355.7E	1099	1881	F R/FLG W	Mast
68N 22E	633	KARESUANDO	682416.5N 0222950.7E	358	1981	F R	Mast

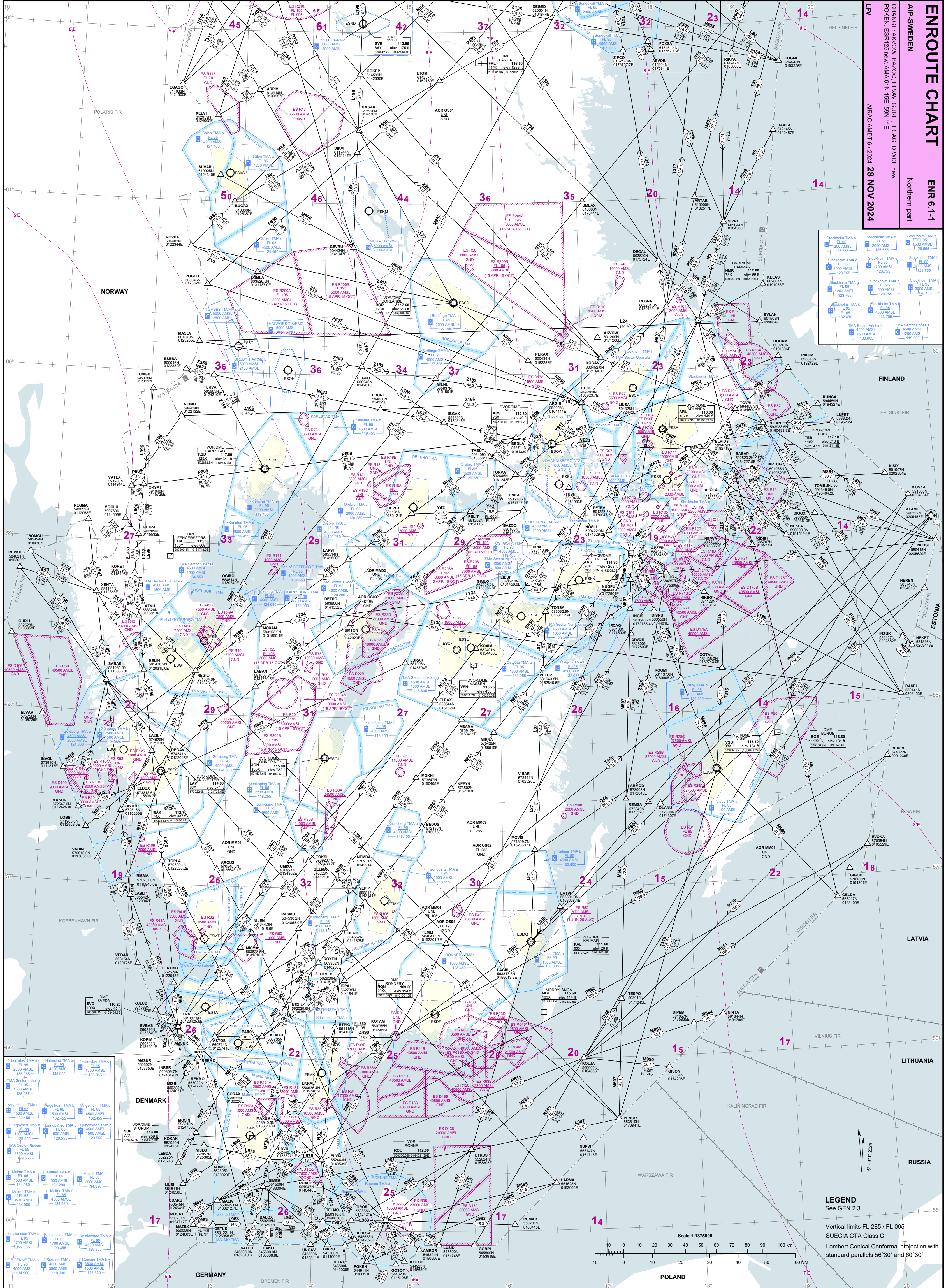
ENROUTE CHART

AP-SWEDEN

ENR 6-1-1

Northern part

CHANGE: AKOV, BAZO, ELVA, GURL, IFCAG, DIVIDE new.
POKIN, ESR123 new, AUA 61N 15E, 59N 11E.
AIRAC AMDT 6 / 2024 29 NOV 2024

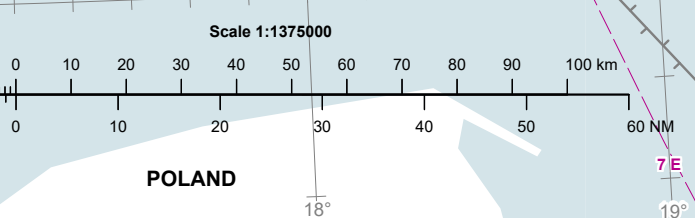


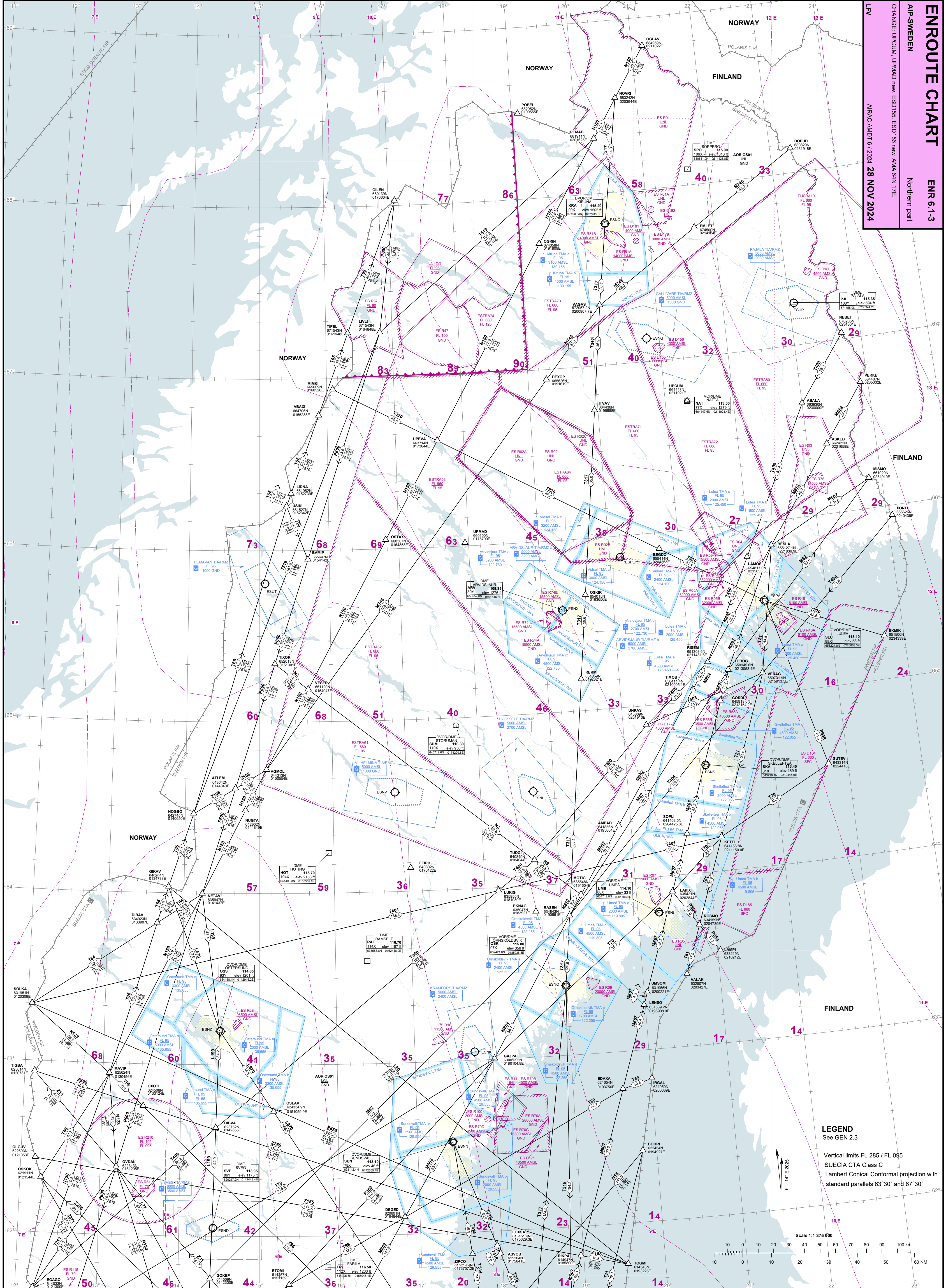
Stockholm TMA a	Stockholm TMA b	Stockholm TMA c
EL 59 1200 AMSL 123.755	EL 59 2000 AMSL 126.655	Stockholm TMA c EL 59 1200 AMSL 123.755
Stockholm TMA d EL 59 1200 AMSL 123.755	Stockholm TMA e EL 59 1200 AMSL 123.755	Stockholm TMA f EL 59 1200 AMSL 123.755
Stockholm TMA g EL 59 1200 AMSL 123.755	Stockholm TMA h EL 59 1200 AMSL 123.755	Stockholm TMA i EL 59 1200 AMSL 123.755
Stockholm TMA j EL 59 1200 AMSL 123.755	Stockholm TMA k EL 59 1200 AMSL 123.755	Stockholm TMA l EL 59 1200 AMSL 123.755

TMA Sector Västerås	TMA Sector Uppsala
5000 AMSL 1500 AMSL 130.605	4500 AMSL 1200 AMSL 119.200

LEGEND
See GEN 2.3

Vertical limits FL 285 / FL 095
SUECIA CTA Class C
Lambert Conformal projection with
standard parallels 56°30' and 60°30'

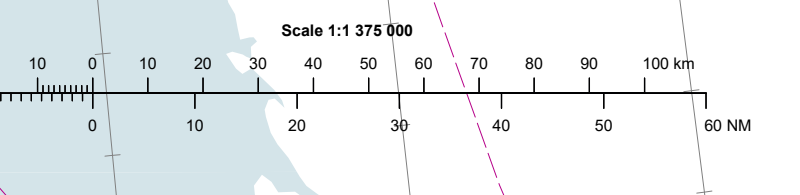


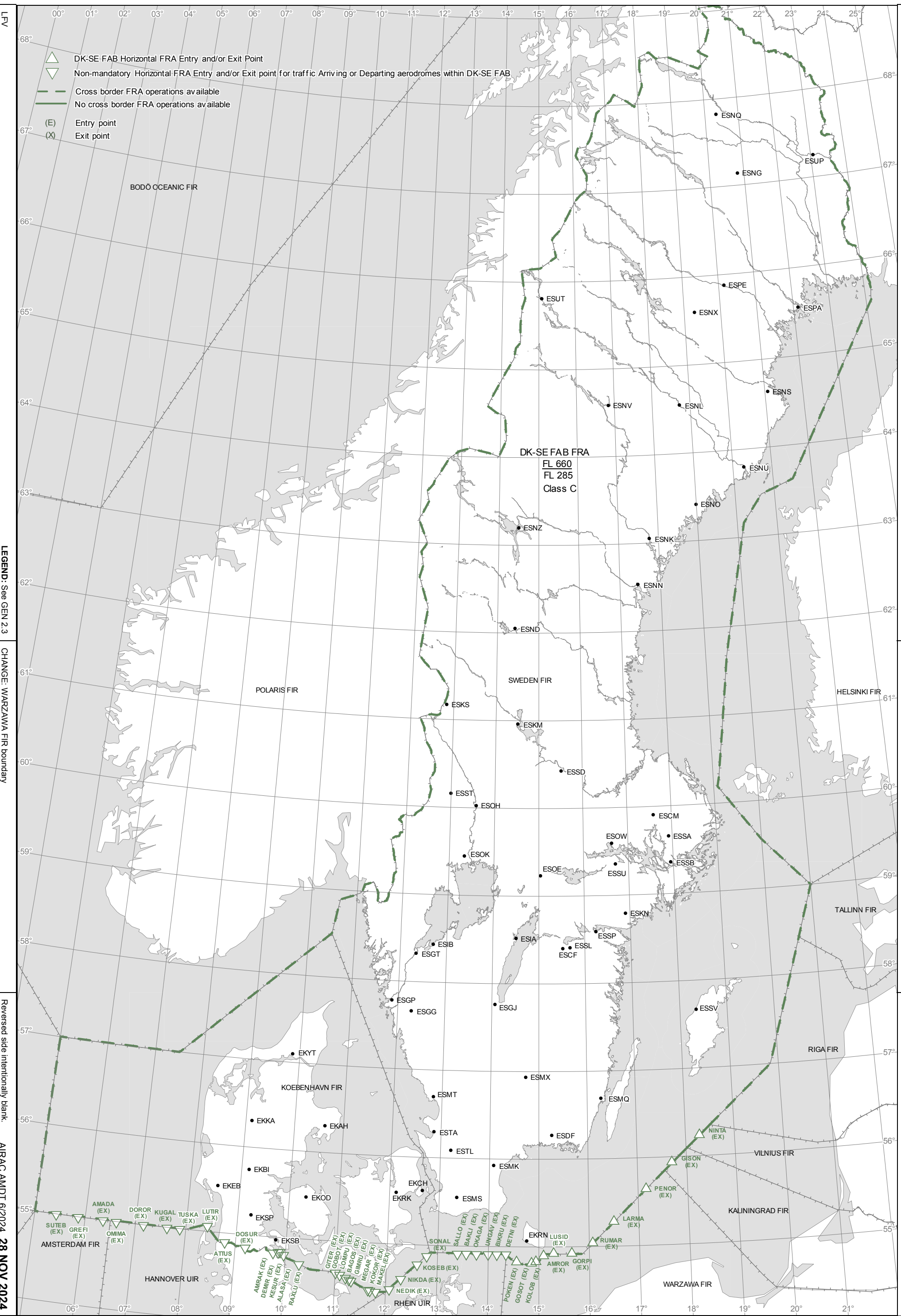


LEGEND

See GEN 2.3

Vertical limits FL 285 / FL 095
SUECIA CTA Class C
Lambert Conformal projection with standard parallels 63°30' and 67°30'





LEGEND: See GEN 2.3

CHANGE: WARZAWA FIR boundary

Reversed side intentionally blank

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LFV

Landande luftfartyg:

- a) bakomvarande landande kategori 1 luftfartyg får passera tröskeln när framförvarande kategori 1 eller 2 luftfartyg:
- har landat och passerat en punkt minst 600 m från tröskeln, är under utrullning och ska lämna banan utan att taxa banan tillbaka; eller
 - har startat och passerat en punkt minst 600 m från tröskeln.
- b) bakomvarande landande kategori 2 luftfartyg får passera tröskeln när framförvarande kategori 1 eller 2 luftfartyg:
- har landat och passerat en punkt minst 1500 m från tröskeln, är under utrullning och ska lämna banan utan att taxa banan tillbaka; eller
 - har startat och passerat en punkt minst 1500 m från tröskeln.
- c) bakomvarande landande kategori 1, 2 eller 3 luftfartyg får passera tröskeln när framförvarande kategori 3 luftfartyg:
- har landat och passerat en punkt minst 2400 m från tröskeln, är under utrullning och ska lämna banan utan att taxa banan tillbaka; eller
 - har startat och passerat en punkt minst 2400 m från tröskeln.

Startande luftfartyg:

- a) startklarering får lämnas för ett kategori 1 luftfartyg när framförvarande kategori 1 eller 2 luftfartyg är i luften och har passerat en punkt minst 600 m från efterföljandes startposition
- b) startklarering får lämnas för ett kategori 2 luftfartyg när framförvarande kategori 1 eller 2 luftfartyg är i luften och har passerat en punkt minst 1500 m från efterföljandes startposition
- c) startklarering får lämnas för ett luftfartyg när framförvarande kategori 3 luftfartyg är i luften och har passerat en punkt minst 2400 m från efterföljandes startposition.

Landing aircraft:

- a) a succeeding landing Category 1 aircraft may cross the runway threshold when the preceding aircraft is a Category 1 or 2 aircraft which either:
- has landed and passed a point at least 600 m from the threshold of the runway, is in motion and will vacate the runway without backtracking, or
 - is airborne and has passed a point at least 600 m from the threshold of the runway.
- b) a succeeding landing Category 2 aircraft may cross the runway threshold when the preceding aircraft is a Category 1 or 2 which either:
- has landed and passed a point at least 1500 m from the threshold of the runway, is in motion and will vacate the runway without backtracking, or
 - is airborne and has passed a point at least 1500 m from the threshold of the runway
- c) a succeeding landing aircraft may cross the runway threshold when a preceding Category 3 aircraft:
- has landed and passed a point at least 2400 m from the threshold of the runway, is in motion and will vacate the runway without backtracking; or
 - is airborne and has passed a point at least 2400 m from the threshold of the runway.

Departing aircraft:

- a) a Category 1 aircraft may be cleared for take-off when the preceding departing aircraft is a Category 1 or 2 aircraft which is airborne and has passed a point at least 600 m from the position of the succeeding aircraft
- b) a Category 2 aircraft may be cleared for take-off when the preceding departing aircraft is a Category 1 or 2 aircraft which is airborne and has passed a point at least 1500 m from the position of the succeeding aircraft
- c) an aircraft may be cleared for take-off when a preceding departing Category 3 aircraft is airborne and has passed a point at least 2400 m from the position of the succeeding aircraft.

11 Helikopterflygplatser

Helikopterflygplatser definierade enligt ICAO Annex 15 AD 3 finns inte etablerade i Sverige.

11 Heliports

Heliports as defined in ICAO Annex 15 AD 3 are not established in Sweden.

HELIPORT Location Indicator Coordinates (ARP) Elevation (ft)	Dimensions (m)	Surface Bearing strength (Tonnes) Types E=Elevated H=Helideck S=Surface-level W=Water	Light	ATS Fuel	COM FREQ (MHz)	Category Owner/Operator TEL Fax Regulations and restrictions Remarks
BOLLNÄS/Sjukhuset ESJB 612110N 0162140E 233 ft	TLOF Ø 29.3 FATO Ø 29.3	ASPH - S ASPH - S	Yes	-	-	Non-licensed helicopter AD County council +46 (0)20 47 04 70 +46 (0)73 020 52 58 PPR 45 min PN Ambulance and rescue flights only. Regulations see Heliport chart, www.regiongavleborg.se/heliport
BORÅS/Borås sjukhus ESEB 574327N 0125751E 597 ft	TLOF Ø 24 FATO Ø 24	ASPH - S ASPH - S	Yes	-	-	Non-licensed helicopter AD County council +46 (0)33 616 50 00 PPR 15 min PN SOS Rescue Coordination Centre +46 (0)31 703 15 80 Ambulance and rescue flights only. Regulations see Heliport chart, www.vgregion.se/heliport
BÄCKEFORS/Dalslands sjukhus ESJD 584751N 0120942E 514 ft	TLOF Ø 16 FATO Ø 16	ASPH - S ASPH - S	Yes	-	-	Non-licensed helicopter AD County council PPR 15 min PN SOS Rescue Coordination Centre +46 (0)31 703 15 80 Ambulance and rescue flights only. Regulations see Heliport chart, www.vgregion.se/heliport
FALUN/Falu lasarett ESEF 603627N 0153843E 471 ft	TLOF Ø 20 FATO Ø 20	CONC (11) CONC (11)	E E	Yes	-	Licensed helicopter AD County council +46 (0)23 49 00 00 PPR 15 min PN +46 (0)70 582 35 85 RAKEL 325-3302 SOS Rescue Coordination Centre +46 (0)23 102 51 Ambulance and rescue flights only. Regulations see Heliport chart, www.regiondalarna.se/heliport
GÄLLIVARE/Gällivare sjukhus ESHA 670752N 0204059E 1141 ft	TLOF 50x50 FATO 50x50	ASPH - S ASPH - S	Yes	-	-	Non-licensed helicopter AD County council +46 (0)920 28 40 00 PPR 30 min PN Ambulance and rescue flights only. https://vardgivarwebben.norrboten.se/sv/samverkan-och-avtal/helikopterflygplatser---svenskt-ambulansflyg/
GÄLLIVARE//assara ESEG 670812N 0203755E (*) 1160 ft	TLOF Ø 5.4 FATO Ø 28.5	ASPH - - ASPH - -	Yes	Jet A1 O/R	-	Non-licensed helicopter AD Municipal Operator: AB Norrlandsflyg +46 (0)970 140 65 PPR

HELIPORT Location Indicator Coordinates (ARP) Elevation (ft)	Dimensions (m)	Surface Bearing strength (Tonnes) Types E=Elevated H=Helideck S=Surface-level W=Water	Light	ATS Fuel	COM FREQ (MHz)	Category Owner/Operator TEL Fax Regulations and restrictions Remarks
GÄVLE/Sjukhuset ESJA 604053N 0170705E 70 ft	TLOF Ø 29.3 FATO Ø 29.3	ASPH - - ASPH - -	Yes	-	-	Licensed helicopter AD County council +46 (0)20 47 04 70 +46 (0)73 020 52 58 PPR 30 min PN Ambulance and rescue flights only. Regulations see Heliport chart, www.regiongavleborg.se/heliport
GÖTEBORG/Sahlgrenska sjukhuset ESHS 574100N 0115723E (*) 180 ft	TLOF Ø 28 FATO Ø 28	METAL (11) E METAL (11) E	Yes	-	-	Licensed helicopter AD County council +46 (0)31 342 10 00 PPR 15 min PN SOS Rescue Coordination Centre +46 (0)31 703 15 80 Ambulance and rescue flights only. Regulations see Heliport chart, www.vgregion.se/heliport
GÖTEBORG/Östra sjukhuset ESHB 574310N 0120302E 240 ft	TLOF Ø 20 FATO Ø 20	CONC (11) E CONC (11) E	Yes	-	-	Licensed helicopter AD County council +46 (0)31 342 65 00 PPR 15 min PN HEMS-coordinator: +46 (0)31 334 11 96 Ambulance and rescue flights only. Regulations see Heliport chart, www.vgregion.se/heliport
GÖVIKEN/Helikopterflygplats ESJH 631129N 0143750E 968 ft	TLOF Ø 20 FATO Ø 20	ASPH - S ASPH - S	Yes	Jet A1	-	Non-licensed helicopter AD County council +46 (0)63 15 30 00 PPR 15 min PN +46 (0)70 350 99 64 PCL on freq 123.650 MHz, 5 sec duration. Ambulance and rescue flights only.
HUDIKSVALL/Sjukhuset ESHX 614350N 0170600E (*) 76 ft	TLOF 20.9x22.8 FATO 20.9x22.8	CONC (10) E CONC (10) E	Yes	-	-	Licensed helicopter AD County council +46 (0)20 47 04 70 +46 (0)70 342 54 77 (Securitas) +46 (0)73 020 52 58 PPR 45 min PN Ambulance and rescue flights only. Regulations see Heliport chart, www.regiongavleborg.se/heliport
JÖNKÖPING/Ryhov sjukhus ESHJ 574553N 0141140E 346 ft	TLOF Ø 24 FATO Ø 24	CONC/ASPH - S CONC/ASPH - S	Yes	-	-	Non-licensed helicopter AD County council +46 (0)10 241 00 00 PPR 15 min PN SOS Rescue Coordination Centre +46 (0)36 12 38 44 +46 (0)36 13 00 03 Ambulance and rescue flights only. Regulations see Heliport chart, www.rjl.se/heliport
KARLSKRONA/Blekingesjukhuset ESHN 561100N 0153632E 90 ft	TLOF Ø 17 FATO Ø 17	ASPH - - ASPH - -	Yes	-	-	Non-licensed helicopter AD County council Lights switched on by SOS Rescue Coordination Centre. +46 (0)455 73 10 00 Ambulance and rescue flights only.

HELIPORT Location Indicator Coordinates (ARP) Elevation (ft)	Dimensions (m)	Surface Bearing strength (Tonnes) Types E=Elevated H=Helideck S=Surface-level W=Water	Light	ATS Fuel	COM FREQ (MHz)	Category Owner/Operator TEL Fax Regulations and restrictions Remarks
KARLSTAD/Centralsjukhuset ESHV 592234N 0132834E 157 ft	TLOF Ø 28 FATO Ø 28	ASPH - S ASPH - S	Yes	-	-	Licensed helicopter AD County council +46 (0)10 831 50 00 PPR 15 min PN Sjukvårdens Larmcentral (SvLC) Värmland +46 (0)54 83 34 50 or via RAKEL. Ambulance and rescue flights only. Regulations see Heliport chart, www.regionvarmland.se/heliport
KIRUNA/Kiruna sjukhus ESEQ 675101N 0201412E 1758 ft	TLOF 20x20 FATO 20x20	ASPH - - ASPH - -	Yes	-	-	Non-licensed helicopter AD County council +46 (0)920 28 40 00 PPR 30 min PN SOS Rescue Coordination Centre +46 (0)920 22 02 75 Ambulance and rescue flights only. Regulations see Heliport chart, https://vardgivarwebben.norrbottn.se/sv/samverkan-och-avtal/helikopterflygplatser---svenskt-ambulansflyg/
KIRUNA/Luossajärvi ESEK 675136N 0201225E 1550 ft	TLOF Ø 5.4 FATO Ø 60	Gravel - - Gravel - -	No	Jet A1 O/R	-	Non-licensed helicopter AD Private Operator: Kallax Flyg AB +46 (0)911 25 10 30 PPR
Kriegers Flak A ESEX 550128N 0125103E (*) 118 ft	TLOF Ø 17 FATO -	METAL (6.8) -	E	Yes	-	123.405 Licensed by Danish CAA Foreign Operator: Energinet (TSO in Denmark) +45 (0)70 10 22 44
Kriegers Flak B ESEZ 550255N 0125642E (*) 115 ft	TLOF Ø 17 FATO -	METAL (6.8) -	E	Yes	-	125.405 Licensed by Danish CAA Foreign Operator: Energinet (TSO in Denmark) +45 (0)70 10 22 44
KUNGÄLV/Kungälv sjukhus ESHM 575238N 0115805E 36 ft	TLOF Ø 24 FATO Ø 24	ASPH - S ASPH - S	Yes	-	-	Non-licensed helicopter AD County council +46 (0)30 39 80 00 PPR 15 min PN SOS Rescue Coordination Centre +46 (0)31 703 15 80 Ambulance and rescue flights only. Regulations see Heliport chart, www.vgregion.se/heliport
LINKÖPING/US Linköping helikopterflygplats ESJL 582406N 0153710E 364 ft	TLOF Ø 20 FATO Ø 20	CONC (11) CONC (11)	E E	Yes	-	- Licensed helicopter AD County council +46 (0)10 103 00 00 PPR 30 min PN SOS Rescue Coordination Centre +46 (0)11 10 40 10 Ambulance and rescue flights only. Max rotor diameter 16.4 m. Regulations see www.regionostergotland.se/heliport

HELIPORT Location Indicator Coordinates (ARP) Elevation (ft)	Dimensions (m)	Surface Bearing strength (Tonnes) Types E=Elevated H=Helideck S=Surface-level W=Water	Light	ATS Fuel	COM FREQ (MHz)	Category Owner/Operator TEL Fax Regulations and restrictions Remarks
LULEÅ/Sunderby sjukhuset ESES 654020N 0215609E (*) 39 ft	TLOF 20x20 FATO 20x20	ASPH - S ASPH - S	Yes	Jet A1	-	Licensed helicopter AD County council +46 (0)920 28 40 00 PPR 30 PN SOS Rescue Coordination Centre +46 (0) 920 22 02 75 Ambulance and rescue flights only. Regulations see Heliport chart, https://vardgivarwebben.norbotten.se/sv/samverkan-och-avtal/helikopterflygplatser---svenskt-ambulansflyg/
LUND/Skånes universitetssjukhus ESEM 554242N 0131156E (*) 352 ft	TLOF Ø 29.3 FATO Ø 29.3	CONC (11) E CONC (11) E	Yes	-	-	Licensed helicopter AD County council +46 (0)46 17 10 00 (exch) +46 (0)771 41 00 11 UAS consultation PPR 15 min PN SOS Rescue Coordination Centre +46 (0)722 07 01 37 Ambulance and rescue flights only. Regulations and restrictions see www.skane.se/heliport
LYCKSELE/Sjukhuset ESEY 643507N 0184051E (*) 742 ft	TLOF Ø 29 FATO Ø 29	ASPH - - ASPH - -	Yes	-	-	Licensed helicopter AD County council +46 (0)950 397 40 PPR Ambulance and rescue flights only. www.vll.se/heliport
MORA/Mora lasarett ESJM 610102N 0143503E 646 ft	TLOF Ø 20 FATO Ø 20	CONC (11) E CONC (11) E	Yes	-	-	Licensed helicopter AD County council +46 (0)23 49 00 00 PPR 15 min PN +46 (0)72 570 54 60 RAKEL 325-3303 SOS Rescue Coordination Centre +46 (0)23 102 51 Ambulance and rescue flights only. Regulations see Heliport chart, www.regiondalarna.se/heliport
NORRTÄLJE/Sjukhuset ESHY 594528N 0184121E 61 ft	TLOF Ø 19.8 FATO Ø 19.8	CONC (6) E CONC (6) E	Yes	-	122.880	Licensed helicopter AD County council +46 (0)176 101 00 (exch) PPR 15 min PN SOS Rescue Coordination Centre +46 (0)8 454 26 22 or via RAKEL. Ambulance and rescue flights only. Restrictions applies for helicopters, see webpage www.tiohundra.se/heliport
SKELLEFTEÅ LASARETT ESJS 644520N 0205627E 72 ft	TLOF Ø 16 FATO Ø 16	ASPH - S ASPH - S	Yes	-	-	Non-licensed helicopter AD County council +46 (0)90 785 00 00 PPR 20 min PN Ambulance and rescue flights only. SOS Rescue Coordination Centre +46 (0)920 22 02 75

HELIPORT Location Indicator Coordinates (ARP) Elevation (ft)	Dimensions (m)	Surface Bearing strength (Tonnes) Types E=Elevated H=Helideck S=Surface-level W=Water	Light	ATS Fuel	COM FREQ (MHz)	Category Owner/Operator TEL Fax Regulations and restrictions Remarks
SKÖVDE/Kärnsjukhuset ESHO 582531N 0135053E 490 ft	TLOF Ø 24 FATO Ø 24	ASPH - S ASPH - S	Yes	Jet A1	-	Non-licensed helicopter AD County council +46 (0)500 43 10 00 PPR 15 min PN SOS Rescue Coordination Centre +46 (0)31 703 15 80 Ambulance and rescue flights only. Regulations see Heliport chart, www.vgregion.se/heliport
STOCKHOLM/Danderyds sjukhus ESHD 592329N 0180148E 5 ft	TLOF Ø 20 FATO 19x19	ASPH (6) S CONC (6) W	Yes	-	-	Licensed helicopter AD County council +46 (0)8 123 550 00 PPR 15 min PN SOS Rescue Coordination Centre +46 (0)8 454 26 22 or via RAKEL. Ambulance and rescue flights only. Restrictions applies for helicopters, see webpage www.ds.se/heliport
STOCKHOLM/Gamla Stan ESHG 591922N 0180358E 3 ft	TLOF 15x8 FATO 15x8	CONC - - CONC - -	No	-	-	Non-licensed helicopter AD Private Operator: Arlanda Helicopter AB +46 (0)8 88 00 80 PPR
STOCKHOLM/Huddinge sjukhus ESHL 591311N 0175603E 264 ft	TLOF Ø 29.3 FATO Ø 29.3	CONC (12) CONC (12)	E E	Yes	-	Licensed helicopter AD County council +46 (0)8 123 172 30 +46 (0)72 546 05 38 PPR 10 min PN SOS Rescue Coordination Centre +46 (0)8 454 26 22 or via RAKEL. Ambulance and rescue flights only. www.locum.se/verktygen/flygsakerhet/
STOCKHOLM/Karolinska Universitetssjukhuset Solna ESHK 592057N 0180155E 250 ft	Twin North TLOF 19.6x19.6 FATO 19.6x19.6 Twin South TLOF 19.6x19.6 FATO 19.6x19.6	CONC (11) CONC (11) CONC (7) E CONC (7) E	E E E E	Yes Yes	- -	Licensed helicopter AD County council +46 (0)8 123 172 30 +46(0)72 546 05 38 PPR 10 min PN SOS Rescue Coordination Centre +46 (0)8 454 26 22 or via RAKEL. Ambulance and rescue flights only. www.locum.se/verktygen/flygsakerhet/ Single FATO permanently closed see webpage. Twin FATO Max rotor diameter 16.3 m. Sector NE 033°-213° obstacle clearance 4.5% Sector SW 233°-053° obstacle clearance 4.5% Restrictions applies for helicopters over 6 tonnes, see webpage.
STOCKHOLM/Södersjukhuset ESHC 591830N 0180317E 136 ft	TLOF Ø 28.1 FATO Ø 28.1	CONC (10) CONC (10)	S S	Yes	-	Licensed helicopter AD County council +46 (0)8 123 610 00 PPR 10 min PN SOS Rescue Coordination Centre +46 (0)8 454 26 22 or via RAKEL. Ambulance and rescue flights only. www.sodersjukhuset.se/heliport

HELIPORT Location Indicator Coordinates (ARP) Elevation (ft)	Dimensions (m)	Surface Bearing strength (Tonnes) Types E=Elevated H=Helideck S=Surface-level W=Water	Light	ATS Fuel	COM FREQ (MHz)	Category Owner/Operator TEL Fax Regulations and restrictions Remarks
SUNDSVALL/Länssjukhuset ESED 622429N 0171808E 312 ft	TLOF 17.2x16.2 FATO 17.2x16.2	ASPH - - ASPH - -	Yes	-	-	Licensed helicopter AD County council +46 (0) 611 80 000 PPR 60 min PN Länssjukhuset Sundsvall +46 (0)60 18 10 00 (exch) Ambulance and rescue flights only. www.rvn.se/heliport
TORSBY/Torsby sjukhus ESET 600812N 0125951E (*) 335 ft	TLOF Ø 24 FATO Ø 24	CONC/ASPH - S CONC/ASPH - S	Yes	-	-	Non-licensed helicopter AD County council +46 (0)560 712 04 PPR 60 min PN Unmanned SOS Rescue Coordination Centre +46 (0)54 83 34 50 Ambulance and rescue flights only. Regulations see Heliport chart, www.liv.se/heliport
TROLLHÄTTAN/NÄL sjukhus ESEN 581909N 0121605E 312 ft	TLOF Ø 24 FATO Ø 24	ASPH - S ASPH - S	Yes	Jet A1	-	Licensed helicopter AD County council +46 (0)521 910 00 PPR 15 min PN SOS Rescue Coordination Centre +46 (0)31 703 15 80 Ambulance and rescue flights only. Regulations see Heliport chart, www.vgregion.se/heliport
UMEÅ/Universitetssjukhuset ESHZ 634902N 0201754E (*) 233 ft	TLOF Ø 23 FATO Ø 23	METAL (12) E METAL (12) E	Yes	-	-	Licensed helicopter AD County council +46 (0)90 785 00 00 PPR 15 min PN SOS Rescue Coordination Centre Ambulance and rescue flights only. Regulations see Heliport chart, www.vll.se/heliport
UPPSALA/Akademiska sjukhuset ESHU 595050N 0173825E (*) 172 ft	TLOF Ø 27.9 FATO Ø 27.9	CONC (11) E CONC (11) E	Yes	-	-	Licensed helicopter AD County council +46 (0)18 611 00 00 Ambulance and rescue flights only. 30 min PN before ARR TEL +46 (0)10 603 88 31 Regulations see Heliport chart, https://region uppsala.se/helikopterflyg plats
VISBY/Sjukhuset ESEV 573900N 0181803E (*) 26 ft	TLOF Ø 28.1 FATO Ø 28.1	CONC/ASPH - - CONC/ASPH - -	Yes	-	-	Licensed helicopter AD Municipal +46 (0)498 20 35 55 PPR 30 min PN Ambulance and SAR OPS: SOS 112. Ambulance and rescue flights only. www.gotland.se/heliport
VÄSTERÅS/Västmanlands sjukhus ESEW 593657N 0163455E 92 ft	TLOF Ø 20 FATO Ø 20	ASPH - S ASPH - S	Yes	-	-	Non-licensed Helicopter AD County council +46 (0)21 17 30 00 PPR 30 min PN Rescue Coordination Centre Sjukvårdens Larmcentral +46 (0)21 30 01 63 Ambulance and rescue flights only. Regulations see Heliport chart, regionvastmanland.se/helikopter

HELIPORT Location Indicator Coordinates (ARP) Elevation (ft)	Dimensions (m)	Surface Bearing strength (Tonnes) Types E=Elevated H=Helideck S=Surface-level W=Water	Light	ATS Fuel	COM FREQ (MHz)	Category Owner/Operator TEL Fax Regulations and restrictions Remarks
ÅKERSBERGA ESHR 592908N 0181618E (*) 5 ft	TLOF 10x10 FATO 25x25	CONC - - Grass - -	Yes	-	123.475	Non-licensed helicopter AD Private Operator: Arlanda Helicopter AB +46 (0)70 689 21 42 PPR
ÖREBRO/Universitetssjukhuset ESHQ 591629N 0151344E 165 ft	TLOF Ø 28.1 FATO Ø 28.1	CONC (10) E CONC (10) E	Yes	-	-	Licensed helicopter AD County council +46 (0)19 602 22 22 PPR 30 min PN +46 (0)19 602 22 22 Ambulance and rescue flights only. www.regionorebrolan.se/hkp Max rotor diameter 15.6 m.

AERODROME Location Indicator Coordinates (ARP) Location Elevation (ft)	RWY	Dimensions (m)	Surface	Light	ATS Fuel	COM FREQ (MHz)	Category Owner/Operator TEL Fax Regulations and restrictions Remarks
DALA-JÄRNA ESKD 603322N 0142238E (*) 5 NM ENE Vansbro 773 ft	03/21	900x24	ASPH	Yes	100LL	123.350	Non-licensed AD Västerdalarnas flygklubb +46 (0)281 203 82 +46 (0)281 202 60 THR 03 displaced 100 m. Repeated take-offs and landings not allowed: MON-FRI 2100-0600 (2000-0500) SAT, SUN, HOL 2100-0800 (2000-0700) Exemption can be applied for with the airport manager.
EDSBYNN ESUY 612313N 0155000E (*) 1 NM NE 515 ft	11/29	700x40	Grass	No	80/87	123.550	Non-licensed AD Edsbyn flygklubb +46 (0)271 211 50 +46 (0)271 222 14 THR 11 displaced 160 m.
EKSHÄRAD ESKH 600917N 0133143E (*) 1.5 NM SSE 460 ft	15/33	540x45	Grass	No	100LL	-	Non-licensed AD Ekshärad flygklubb +46 (0)563 404 66 +46 (0)563 400 01 THR 15 displaced 115 m.
EKSJÖ/Ränneslätt ESMC 574012N 0145631E (*) 0.5 NM W 720 ft	01/19	1000x30	Grass	No	100LL 91/96	123.425	Non-licensed AD Norra Smålands flygklubb +46 (0)381 160 50 PPR TEL +46 (0)381 181 03 (Ing 2) THR 01 displaced 200 m. THR 19 displaced 120 m. Right hand traffic circuit to RWY 01. Within ES R39
ENKÖPING/Långtora ESVL 594450N 0170842E (*) 6.5 NM NNE Enköping 49 ft	12/30 07/25	720x200 670x200	Grass Grass	No No	91/96	123.525	Non-licensed AD Stockholms segelflygklubb +46 (0)706 68 50 11 PPR See website Repeated/practice take-offs and landings not allowed. Glider traffic, circuit always north of RWY. Motor traffic, circuit always south of RWY. www.ssfk.se Mainly gliding activity from APR-OCT.
ESKILSTUNA ESSU Details, see AD 2	18/36	1886x35	ASPH/ CONC	Yes	AFIS	Yes	Licensed, instrument AD Municipal
ESKILSTUNA/Ekeby ESSC 592302N 0162631E (*) 43 ft	05/23	850x150	Grass	No	91/96	123.200	Non-licensed AD Municipal +46 (0)16 51 34 89 +46 (0)16 14 03 57 Fax +46 (0)16 51 34 77 For gliding only PPR

AERODROME Location Indicator Coordinates (ARP) Location Elevation (ft)	RWY	Dimensions (m)	Surface	Light	ATS Fuel	COM FREQ (MHz)	Category Owner/Operator TEL Fax Regulations and restrictions Remarks
ESLÖV ESME 555054N 0131952E 1 NM NE 296 ft	12/30 06/24	799x20 450x30	ASPH Grass	Yes No	100LL O/R	123.150	Non-licensed AD Municipal +46 (0)705 54 70 00 THR 06 displaced 90 m. PPR for take-off/landing exercises by visiting ACFT, +46 (0)705 54 70 00. RWY 06/24 not to be used for repeated take-off/landing exercises. Right hand traffic circuit when RWY 24 and 30 is in use.
FAGERHULT ESMF 562316N 0132814E (*) 1 NM N 378 ft	17/35	590x30	Grass	No	-	-	Non-licensed AD Private +46 (0)706 27 22 76 +46 (0)703 82 33 74 THR 17 displaced 100 m THR 35 displaced 30 m
FALKENBERG/Morup ESGF 565807N 0122314E (*) 23 ft	09/27	700x30	Grass	Yes	100LL	-	Non-licensed AD Falkenberg's flygklubb +46 (0)346 944 80 +46 (0)346 943 13
FALKÖPING ESGK 581012N 0133516E NE 1.5 NM from Falköping 785 ft	04/22	1316x30	ASPH	Yes	100LL O/R	123.350	Non-licensed AD Municipal +46 (0)515 806 30 PPR NOV-APR PCL on freq 123.350 MHz. Right hand circuit to RWY 04. APR-OCT, winch launching of gliders. Infrequent winter maintenance. Other activities may occur on RWY, TWY and apron.
FJÄLLBACKA ESTF 583749N 0111854E (*) 1.5 NM NNE 6 ft	06/24	740x34	Grass	No	100 LL	123.200	Non-licensed AD Municipal +46 (0)705 33 78 16 +46 (0)525 180 00 (Exch) +46 (0)705 12 49 35 PPR estf@telia.com
GAGNEF ESVG 603303N 0150441E (*) 2.7 NM S 575 ft	08/26	600x30	Grass	No	-	123.550	Non-licensed AD Gagnef flygklubb +46 (0)730 52 59 89 +46 (0)706 65 51 79 info@gagnefsflygklubb.se www.gagnefsflygklubb.se Right hand traffic circuit to RWY 08. Other activities may occur on RWY. RWY conditions wet and swampy after heavy rain.
GARGNÄS ESUG 651819N 0175832E (*) 0.3 NM SE 980 ft	17/35	940x30	Grass	No	100LL	123.450	Non-licensed AD Municipal +46 (0)952 213 29 +46 (0)952 212 08 +46 (0)706 07 27 32 PPR THR 17 displaced 50 m THR 35 displaced 90 m Right hand traffic circuit to RWY 35.

AERODROME Location Indicator Coordinates (ARP) Location Elevation (ft)	RWY	Dimensions (m)	Surface	Light	ATS Fuel	COM FREQ (MHz)	Category Owner/Operator TEL Fax Regulations and restrictions Remarks
NORRTÄLJE ESSN 594358N 0184147E (*) 1.6 NM S 40 ft	07/25	830x18	ASPH	Yes	100LL 91/96 Jet A1	123.325	Non-licensed AD Roslagens flygklubb +46 (0)176 163 08 info@rfk.nu RWY 07 down slope. RWY 25 up slope. Right hand traffic circuit to RWY 07. RWY lights 3 m outside ASPH edge. Only 650 meter starting from THR RWY 25. PCL on freq 123.325 MHz 8 sec duration. PPR for TGL during darkness. TGL not allowed 2100-0600 (2000-0500) during weekdays and 1800-0800 (1700-0700) during HOL
OPTAND ESNM 630731N 0144830E (*) 5 NM SE Östersund 1236 ft	18/36 15/33	1000x18 750x40	ASPH Grass	Yes No	100LL	123.550	Non-licensed AD Östersunds flygklubb +46 (0)63 352 45 +46 (0)63 51 01 50 Right hand traffic circuit to RWY 33 and 36. Situated near restricted area ES R08C.
ORSA ESNR 611132N 0144309E (*) 1 NM WNW Mässbacken 683 ft	03/21	1000x30	ASPH	No	-	123.400	Non-licensed AD Orsa Tallhed Flygsällskap +46 (0)250 55 01 47 +46 (0)705 48 13 81 +46 (0)706 38 10 70 +46 (0)762 73 11 01 Motor activities on RWY may occur. Grass area preferably for ultra light, winchlaunching of gliders and parachute jumping.
OSKARSHAMN ESMO 572107N 0162954E NNE 5.4 NM from Oskarshamn 96 ft	01/19	1504x30	ASPH	No	-	123.350	Non-Licensed AD Municipal +46 (0)73 076 74 09 +46 (0)70 570 60 38 No snow clearance during winterperiod. Other activities may occur on RWY, TWY and apron se NOTAM. servicecenter@oskarshamn.se www.oskarshamn.se/flygplatsen
OVIKEN ESUO 630230N 0140005E (*) 1640 ft	18/36	750x20	Grass	No	91UL 100LL O/R	123.150	Non-licensed AD Private +46 (0)702 88 64 19 +46 (0)706 41 59 41 PPR Hangar Caution - Low level turbulence/Lee wave rotor in wind directions from SW to NW.
PAJALA ESUP Details, see AD 2	11/29	2300x45	ASPH	Yes	AFIS	Yes	Licensed, instrument AD Municipal

AERODROME Location Indicator Coordinates (ARP) Location Elevation (ft)	RWY	Dimensions (m)	Surface	Light	ATS Fuel	COM FREQ (MHz)	Category Owner/Operator TEL Fax Regulations and restrictions Remarks
PITEÅ ESNP 652354N 0211539E (*) 8 NM NW 43 ft	16/34	1000x25	ASPH	Yes	100LL Jet A1	123.550	Non-licensed AD Piteå flygklubb +46 (0)706 45 38 87 PPR
RAMSELE ESUR 632925N 0162901E (*) 2.7 NM S 660 ft	14/32	740x30	Grass	No	100LL 91/96	123.600	Non-licensed AD Ramsele flygklubb +46 (0)623 200 05 +46 (0)623 320 18 THR 14 displaced 30 m. THR 32 displaced 60 m.
RONNEBY ESDF Details, see AD 2	01/19 12/30	2331x45 600x30	ASPH Grass	Yes No	TWR	Yes	MIL, licensed instrument AD FM/Swedish Armed Forces
RÅDA ESRF 582953N 0130311E (*) 230 ft	18/36	1987x35	ASPH	Yes	-	-	MIL, non-licensed AD Military +46 (0)510 87 75 00 (Airport manager) PPR Permission will be granted in exceptional cases only.
SANDVIK ESFS 570406N 0165151E (*) 16 NM NNE Borgholm 36 ft	17/35	600x25	Grass	No	-	123.450	Non-licensed AD Private +46 (0)720 62 60 53 +46 (0)704 61 66 75 +46 (0)705 40 33 76 PPR Available APR-SEP
SILJANSNÄS ESVS 604706N 0144938E (*) 1 NM NW 611 ft	14R/32L 14L/32R	850x16 850x35	ASPH Grass	No No	100LL 91/96	123.550	Non-licensed AD Siljansnäs flygklubb +46 (0)247 228 80 +46 (0)247 228 51 Right hand traffic circuit to RWY 14.
SJÖBO SÖVDE ESMI 553554N 0134038E (*) 2 NM SSW Sjöbo 118 ft	12/30	950x50	Grass	Yes	91/96 UL	123.650	Non-licensed AD Municipal +46 (0)416 160 51 For powered aircraft right hand traffic circuit when RWY 30 is in use. For gliders right hand traffic circuit when RWY 12 is in use. APR-NOV extensive launching of gliders.
SKELLEFTEÅ ESNS Details, see AD 2	10/28	2520x45	ASPH	Yes	TWR	Yes	Licensed, instrument AD Municipal
SKÖVDE ESGR 582722N 0135822E 5.4 NM NE from Skövde 324 ft	01/19	1736x30	ASPH	Yes	91/96	123.055	Non-licensed AD Municipal +46 (0)500 49 86 00 info@esgr.se PPR 01 NOV-31 MAR PCL on freq 123.055 MHz, 10 sec duration.

1.3 Flygplatsöversikt / Index to aerodromes

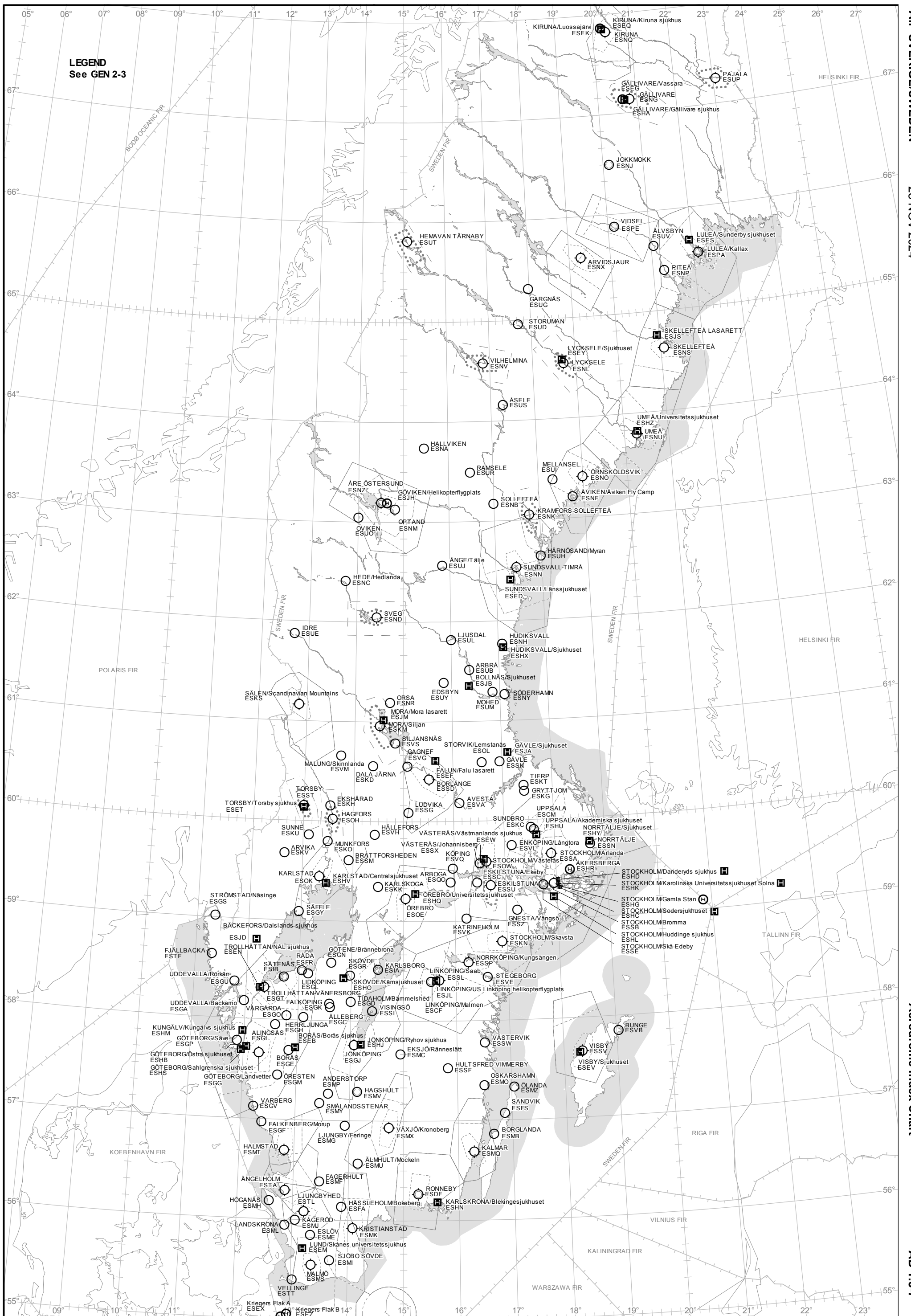
Aerodrome Location indicator		Type of traffic permitted to use the aerodrome			Reference to AD Section and remarks
		INTL-NTL	IFR-VFR	S = Scheduled NS = Non-scheduled P = Private	
1		2	3	4	5
ALINGSÅS	ESGI	NTL	VFR	P	AD 1.1.12
ANDERSTORP	ESMP	NTL	VFR	P	AD 1.1.12
ARBOGA	ESQO	NTL	VFR	P	AD 1.1.12
ARBRÅ	ESUB	NTL	VFR	P	AD 1.1.12
ARVIDSJAUR	ESNX	INTL-NTL	IFR-VFR	S, NS, P	AD 2
ARVIKA	ESKV	NTL	VFR	P	AD 1.1.12
AVESTA	ESVA	NTL	VFR	P	AD 1.1.12
BOLLNÄS/Sjukhuset	ESJB	NTL	VFR	NS	AD 1.1.11
BORGLANDA	ESMB	NTL	VFR	P	AD 1.1.12
BORLÄNGE	ESSD	INTL-NTL	IFR-VFR	S, NS, P	AD 2
BORÅS	ESGE	NTL	VFR	P	AD 1.1.12
BORÅS/Borås sjukhus	ESEB	NTL	VFR	NS	AD 1.1.11
BRATTFORSHEDEN	ESSM	NTL	VFR	P	AD 1.1.12
BUNGE	ESVB	NTL	VFR	P	AD 1.1.12
BÄCKEFORS/Dalslands sjukhus	ESJD	NTL	VFR	NS	AD 1.1.11
DALA-JÄRNA	ESKD	NTL	VFR	P	AD 1.1.12
EDSBYEN	ESUY	NTL	VFR	P	AD 1.1.12
EKSHÄRAD	ESKH	NTL	VFR	P	AD 1.1.12
EKSJÖ/Ränneslätt	ESMC	NTL	VFR	P	AD 1.1.12
ENKÖPING/Långtora	ESVL	NTL	VFR	P	AD 1.1.12
ESKILSTUNA	ESSU	NTL	IFR-VFR	NS, P	AD 2
ESKILSTUNA/Ekeby	ESSC	NTL	VFR	P	AD 1.1.12
ESLÖV	ESME	NTL	VFR	P	AD 1.1.12
FAGERHULT	ESMF	NTL	VFR	P	AD 1.1.12
FALKENBERG/Morup	ESGF	NTL	VFR	P	AD 1.1.12
FALKÖPING	ESGK	NTL	VFR	P	AD 1.1.12
FALUN/Falu lasarett	ESEF	NTL	VFR	NS	AD 1.1.11
FJÄLLBACKA	ESTF	NTL	VFR	P	AD 1.1.12
GAGNEF	ESVG	NTL	VFR	P	AD 1.1.12
GARGNÄS	ESUG	NTL	VFR	P	AD 1.1.12
GNESTA/Vängsö	ESSZ	NTL	VFR	P	AD 1.1.12
GRYTTJOM	ESKG	NTL	VFR	P	AD 1.1.12
GÄLLIVARE	ESNG	NTL	IFR-VFR	S, NS, P	AD 2
GÄLLIVARE/Gällivare sjukhus	ESHA	NTL	VFR	NS	AD 1.1.11
GÄLLIVARE/Vassara	ESEG	NTL	VFR	NS, P	AD 1.1.11

Aerodrome Location indicator		Type of traffic permitted to use the aerodrome			Reference to AD Section and remarks
		INTL–NTL	IFR–VFR	S = Scheduled NS = Non-scheduled P = Private	
1		2	3	4	5
GÄVLE	ESSK	NTL	VFR	NS, P	AD 1.1.12
GÄVLE/Sjukhuset	ESJA	NTL	VFR	NS	AD 1.1.11
GÖTEBORG/Landvetter	ESGG	INTL-NTL	IFR-VFR	S, NS, P	AD 2
GÖTEBORG/Sahlgrenska sjukhuset	ESHS	NTL	VFR	NS	AD 1.1.11
GÖTEBORG/Säve	ESGP	INTL-NTL	VFR	NS, P	AD 2
GÖTEBORG/Östra sjukhuset	ESHB	NTL	VFR	NS	AD 1.1.11
GÖTENE/Brännebrona	ESGN	NTL	VFR	P	AD 1.1.12
GÖVIKEN/Helikopterflygplats	ESJH	NTL	VFR	NS	AD 1.1.11
HAGFORS	ESOH	NTL	IFR-VFR	S, NS, P	AD 2
HAGSHULT	ESMV	NTL	VFR	P	AD 1.1.12
HALLVIKEN	ESNA	NTL	VFR	P	AD 1.1.12
HALMSTAD	ESMT	INTL-NTL	IFR-VFR	S, NS, P	AD 2
HEDE/Hedlanda	ESNC	NTL	VFR	P	AD 1.1.12
HEMAVAN TÄRNABY	ESUT	NTL	IFR-VFR	S, NS, P	AD 2
HERRLJUNGA	ESGH	NTL	VFR	P	AD 1.1.12
HUDIKSVALL	ESNH	NTL	VFR	P	AD 1.1.12
HUDIKSVALL/Sjukhuset	ESHX	NTL	VFR	NS	AD 1.1.11
HULTSFRED-VIMMERBY	ESSF	NTL	VFR	P	AD 1.1.12
HÄLLEFORS	ESVH	NTL	VFR	P	AD 1.1.12
HÄRNÖSAND/Myran	ESUH	NTL	VFR	P	AD 1.1.12
HÄSSLEHOLM/Bokeberg	ESFA	NTL	VFR	P	AD 1.1.12
HÖGANÄS	ESMH	NTL	VFR	P	AD 1.1.12
IDRE	ESUE	NTL	VFR	P	AD 1.1.12
JOKKMOKK	ESNJ	NTL	VFR	P	AD 1.1.12
JÖNKÖPING	ESGJ	INTL-NTL	IFR-VFR	S, NS, P	AD 2
JÖNKÖPING/Ryhov sjukhus	ESHJ	NTL	VFR	NS	AD 1.1.11
KALMAR	ESMQ	INTL-NTL	IFR-VFR	S, NS, P	AD 2
KARLSBORG	ESIA	NTL	VFR	NS, P	AD 2
KARLSKOGA	ESKK	NTL	VFR	NS, P	AD 1.1.12
KARLSKRONA/Blekingesjukhuset	ESHN	NTL	VFR	NS	AD 1.1.11
KARLSTAD	ESOK	INTL-NTL	IFR-VFR	S, NS, P	AD 2
KARLSTAD/Centralsjukhuset	ESHV	NTL	VFR	NS	AD 1.1.11
KATRINEHOLM	ESVK	NTL	VFR	P	AD 1.1.12
KIRUNA	ESNQ	INTL-NTL	IFR-VFR	S, NS, P	AD 2
KIRUNA/Kiruna sjukhus	ESEQ	NTL	VFR	NS	AD 1.1.11
KIRUNA/Luossajärvi	ESEK	NTL	VFR	NS, P	AD 1.1.11

Aerodrome Location indicator		Type of traffic permitted to use the aerodrome			Reference to AD Section and remarks
		INTL-NTL	IFR-VFR	S = Scheduled NS = Non-scheduled P = Private	
1		2	3	4	5
KRAMFORS-SOLLEFTEÅ	ESNK	NTL	IFR-VFR	S, NS, P	AD 2
Kriegers Flak A	ESEX	NTL	VFR	P	AD 1.1.11
Kriegers Flak B	ESEZ	NTL	VFR	P	AD 1.1.11
KRISTIANSTAD	ESMK	INTL-NTL	IFR-VFR	S, NS, P	AD 2
KUNGÄLV/Kungälv's sjukhus	ESHM	NTL	VFR	NS	AD 1.1.11
KÄGERÖD	ESMJ	NTL	VFR	P	AD 1.1.12
KÖPING	ESVQ	NTL	VFR	P	AD 1.1.12
LANDSKRONA	ESML	NTL	VFR	P	AD 1.1.12
LIDKÖPING	ESGL	NTL	VFR	P	AD 1.1.12
LINKÖPING/Malmen	ESCF	NTL	IFR-VFR	NS, P	AD 2
LINKÖPING/Saab	ESSL	INTL-NTL	IFR-VFR	S, NS, P	AD 2
LINKÖPING/US Linköping helikopterflygplats	ESJL	NTL	VFR	NS	AD 1.1.11
LJUNGBY/Feringe	ESMG	NTL	VFR	P	AD 1.1.12
LJUNGBYHED	ESTL	NTL	IFR-VFR	NS, P	AD 2
LJUSDAL	ESUL	NTL	VFR	P	AD 1.1.12
LUDVIKA	ESSG	NTL	VFR	P	AD 1.1.12
LULEÅ/Kallax	ESPA	INTL-NTL	IFR-VFR	S, NS, P	AD 2
LULEÅ/Sunderby sjukhuset	ESES	NTL	VFR	NS	AD 1.1.11
LUND/Skånes universitetssjukhus	ESEM	NTL	VFR	NS	AD 1.1.11
LYCKSELE	ESNL	NTL	IFR-VFR	S, NS, P	AD 2
LYCKSELE/Sjukhuset	ESEY	NTL	VFR	NS	AD 1.1.11
MALMÖ	ESMS	INTL-NTL	IFR-VFR	S, NS, P	AD 2
MALUNG/Skinnlanda	ESVM	NTL	VFR	P	AD 1.1.12
MELLANSEL	ESUI	NTL	VFR	P	AD 1.1.12
MOHED	ESUM	NTL	VFR	P	AD 1.1.12
MORA/Mora lasarett	ESJM	NTL	VFR	NS	AD 1.1.11
MORA/Siljan	ESKM	NTL	IFR-VFR	S, NS, P	AD 2
MUNKFORS	ESKO	NTL	VFR	P	AD 1.1.12
NORRKÖPING/Kungsängen	ESSP	INTL-NTL	IFR-VFR	S, NS, P	AD 2
NORRTÄLJE	ESSN	NTL	VFR	P	AD 1.1.12
NORRTÄLJE/Sjukhuset	ESHY	NTL	VFR	NS	AD 1.1.11
OPTAND	ESNM	NTL	VFR	P	AD 1.1.12
ORSA	ESNR	NTL	VFR	P	AD 1.1.12
OSKARSHAMN	ESMO	NTL	VFR	P	AD 1.1.12
OVIKEN	ESUO	NTL	VFR	P	AD 1.1.12

Aerodrome Location indicator		Type of traffic permitted to use the aerodrome			Reference to AD Section and remarks
		INTL-NTL	IFR-VFR	S = Scheduled NS = Non-scheduled P = Private	
1		2	3	4	5
PAJALA	ESUP	INTL-NTL	IFR-VFR	S, NS, P	AD 2
PITEÅ	ESNP	NTL	VFR	P	AD 1.1.12
RAMSELE	ESUR	NTL	VFR	P	AD 1.1.12
RONNEBY	ESDF	INTL-NTL	IFR-VFR	S, NS, P	AD 2
RÅDA	ESFR	NTL	VFR	P	AD 1.1.12
SANDVIK	ESFS	NTL	VFR	P	AD 1.1.12
SILJANSNÄS	ESVS	NTL	VFR	P	AD 1.1.12
SJÖBO SÖVDE	ESMI	NTL	VFR	P	AD 1.1.12
SKELLEFTEÅ	ESNS	INTL-NTL	IFR-VFR	S, NS, P	AD 2
SKELLEFTEÅ LASARETT	ESJS	NTL	VFR	NS	AD 1.1.11
SKÖVDE	ESGR	NTL	VFR	P	AD 1.1.12
SKÖVDE/Kärnsjukhuset	ESHO	NTL	VFR	NS	AD 1.1.11
SMÅLANDSSTENAR	ESMY	NTL	VFR	P	AD 1.1.12
SOLLEFTEÅ	ESNB	NTL	VFR	P	AD 1.1.12
STEGEBORG	ESVE	NTL	VFR	P	AD 1.1.12
STOCKHOLM/Arlanda	ESSA	INTL-NTL	IFR-VFR	S, NS, P	AD 2
STOCKHOLM/Bromma	ESSB	INTL-NTL	IFR-VFR	S, NS, P	AD 2
STOCKHOLM/Danderyds sjukhus	ESHD	NTL	VFR	NS	AD 1.1.11
STOCKHOLM/Gamla Stan	ESHG	NTL	VFR	P	AD 1.1.11
STOCKHOLM/Huddinge sjukhus	ESHL	NTL	VFR	NS	AD 1.1.11
STOCKHOLM/Karolinska Universitetssjukhuset Solna	ESHK	NTL	VFR	NS	AD 1.1.11
STOCKHOLM/Skavsta	ESKN	INTL-NTL	IFR-VFR	S, NS, P	AD 2
STOCKHOLM/Skå-Edeby	ESSE	NTL	VFR	P	AD 1.1.12
STOCKHOLM/Södersjukhuset	ESHC	NTL	VFR	NS	AD 1.1.11
STOCKHOLM/Västerås	ESOW	INTL-NTL	IFR-VFR	S, NS, P	AD 2
STORUMAN	ESUD	NTL	VFR	NS, P	AD 1.1.12
STORVIK/Lemstanäs	ESOL	NTL	VFR	P	AD 1.1.12
STRÖMSTAD/Näsinge	ESGS	NTL	VFR	NS, P	AD 1.1.12
SUNDBRO	ESKC	NTL	VFR	P	AD 1.1.12
SUNDSVALL/Länssjukhuset	ESED	NTL	VFR	NS	AD 1.1.11
SUNDSVALL-TIMRÅ	ESNN	INTL-NTL	IFR-VFR	S, NS, P	AD 2
SUNNE	ESKU	NTL	VFR	P	AD 1.1.12
SVEG	ESND	NTL	IFR-VFR	S, NS, P	AD 2
SÄTENÄS	ESIB	NTL	IFR-VFR	NS, P	AD 2
SÄFFLE	ESGY	NTL	VFR	P	AD 1.1.12

LEGEND
See GEN 2-3



LFV

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AIRAC AMDT 6/2024

ESNG 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	Associated MET Office	STOCKHOLM/Arlanda
2.	Hours of service MET Office outside hours	H24
3.	Office responsible for TAF preparation Periods of validity, interval of issuance	STOCKHOLM/Arlanda 9 HR, https://tafplanner.smhi.se/app.php/production-program
4.	Type of landing forecast Interval of issuance	Not issued
5.	Briefing/consultation provided	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
6.	Flight documentation Language(s) used	TAF, METAR, SIGMET, Upper air winds Swedish/English
7.	Charts and other information available for briefing or consultation	SWC, WC, Nordic SIGWX Chart, Low level forecast
8.	Supplementary equipment available for providing information	-
9.	ATS units provided with information	GÄLLIVARE AFIS
10.	Additional information (limitation of service, etc.)	-

ESNG 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	True BRG and MAG BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APCH RWY
1	2	3	4	5	6
12	117.94° GEO 109° MAG	1714 x 45	PCN 22 F/B/X/T ASPH	670809.63N 0204749.86E GUND 93 ft	THR 1027 ft
30	297.97° GEO 289° MAG	1714 x 45	PCN 22 F/B/X/T ASPH	670743.69N 0204955.50E GUND 93.0 ft	THR 971.0 ft TDZ 990.6 ft

Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
12 See ESNG AOC	-	-	1834 x 300	-	-
30 See ESNG AOC	-	-	1834 x 300	-	-

ESNG 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
12	1714	1714	1714	1714	-
30	1714	1714	1714	1714	-

ESNB 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT Type, LEN INTST	THR LGT Colour WBAR	VASIS (MEHT)	TDZ LGT LEN	RWY Centre Line LGT LEN, Spacing Colour INTST	RWY Edge LGT LEN, Spacing Colour INTST	RWY End LGT Colour WBAR	SWY LGT LEN, Colour
1	2	3	4	5	6	7	8	9
12	Barrette CL SALS 150 m LIH	Green	PAPI Left/4.00° (49.2 ft)	-	-	1714/60 m White Caution zone 600 m yellow LIH	Red	-
30	Barrette CL CAT I 900 m LIH	Green	PAPI Left/3.00° (55.8 ft)	-	-	1714/60 m White Caution zone 600 m yellow LIH	Red	-

10 Remarks: -

ESNB 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

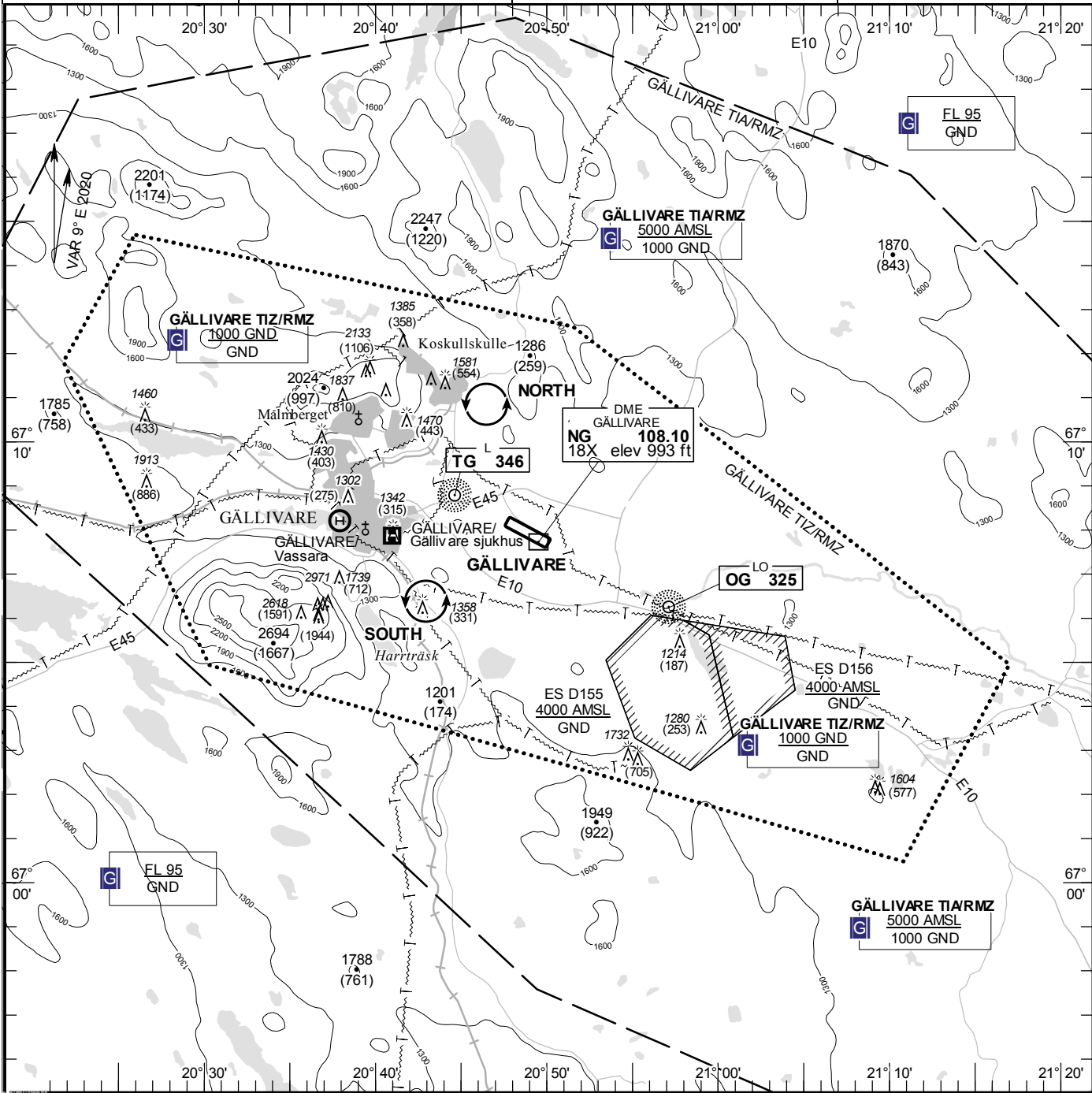
- ABN/IBN location, characteristics and hours of operation -
- LDI location and LGT
Anemometer location and LGT
Windssocks at RWY ends and at apron
500 m NW THR 30 lighted, 300 m SE THR 12
- TWY edge and centre line lighting
Edge: TWY A, B
CL: -
LED lights on TWY B edge lights
LED lights on TWY A RGL
- Secondary power supply/switch-over time Available/1 sec
- Remarks -

ESNB 2.16 HELICOPTER LANDING AREA

RWY 12/30 to be used

ESNB 2.17 ATS AIRSPACE

- Designation and lateral limits
GÄLLIVARE TIZ/RMZ 671442N 0202557E - 671237N 0205131E -
670457N 0211700E - 670029N 0211049E -
670456N 0203018E - 671149N 0202147E -
671442N 0202557E
- Vertical limits
GÄLLIVARE TIZ/RMZ 1000 ft GND
GND
- Airspace classification G
- ATS unit call sign
Language(s)
GÄLLIVARE INFORMATION
Swedish/English
- Transition altitude 5000 ft AMSL
- Remarks
Continuous two-way radiocommunication required in TIZ/RMZ.
TIZ/RMZ established during hours of AFIS.



Communication failure
NIL

Remark
NIL

RWY NR	THR ELEV	PAPI (MEHT)
12	1027 ft	Left/4.00° (49 ft)
30	971.0 ft	Left/3.00° (56 ft)

Entry / exit point
NIL

Holding
 NORTH: Hold east of Koskullskulle
 SOUTH: Hold north east of Harträsk

Legend
See GEN 2.3

ESGG 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	True BRG and MAG BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APCH RWY
1	2	3	4	5	6
03	025.98° GEO 022° MAG	3299 x 45	PCN 81 F/B/X/T ASPH	573858.29N 0121603.75E GUND 116.7 ft	THR 478.3 ft TDZ 493.0 ft
21	206.00° GEO 202° MAG	3299 x 45	PCN 81 F/B/X/T ASPH	574034.13N 0121730.95E GUND 116.5 ft	THR 506.4 ft TDZ 506.4 ft

Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
03 See ESGG AOC	-	-	3480 x 280	-	-
21 See ESGG AOC	-	-	3480 x 280	-	-

ESGG 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
03	3299	3299	3299	3299	-
21	3299	3299	3299	3299	-

DECLARED DISTANCES TAKE-OFF INTERSECTIONS

RWY Designator	INTERSECTION	TORA (m)	TODA (m)	ASDA (m)	Remarks	
1		2	3	4	5	6
03	TWY B	3083	3083	3083	-	-
03	TWY C	2189	2189	2189	-	-
03	TWY D	1811	1811	1811	-	-
21	TWY E	2142	2142	2142	-	-
21	TWY F	3124	3124	3124	-	-

ESGG 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT Type, LEN INTST	THR LGT Colour WBAR	VASIS (MEHT)	TDZ LGT LEN	RWY Centre Line LGT LEN, Spacing Colour INTST	RWY Edge LGT LEN, Spacing Colour INTST	RWY End LGT Colour WBAR	SWY LGT LEN, Colour
1	2	3	4	5	6	7	8	9
03	Calvert CAT III 900 m LIH	Green	PAPI Left/3.00° (59.4 ft)	White 900 m	3299/15 m 0-2400 m white 2400-3000 m white/red 3000-3299 m red LIH	3299/60 m White Caution zone 600 m yellow LIH	Red	-
21	Calvert CAT III 900 m LIH	Green	PAPI Left/3.00° (56.4 ft)	White 900 m	3299/15 m 0-2400 m white 2400-3000 m white/red 3000-3299 m red LIH	3299/60 m White Caution zone 600 m yellow LIH	Red	-
10 Remarks: RWY 03: LED lights on RTHL, REDL, RENL, RCLL, RTZL RWY 21: LED lights on RTHL, REDL, RENL, RCLL, RTZL								

ESGG 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

- ABN/IBN location, characteristics and hours of operation -
- LDI location and LGT Lighted windsocks at PAPI locations and on apron between stand 58-60.
Unlighted windsock at fire station.
Anemometer location and LGT 540 m past THR 03 right side, unlighted (outside TWY)
435 m past THR 21 right side, unlighted
345 m past THR 21 left side, unlighted
- TWY edge and centre line lighting Edge: -

CL: TWY A, B, C, D, E, F, G, H, J, K, L, Y, Z

LED lights on all TWY centre line light
LED lights on all RGL
LED lights on all stopbars
- Secondary power supply/switch-over time Available/1 sec
- Remarks See also ESGG 2-1 and ESGG 2-3

ESGG 2.16 HELICOPTER LANDING AREA

RWY 03/21 to be used

Parkeringstiden är begränsad till 18 timmar för fraktflyg som ej går i linjetrafik i enlighet med Lokal Riktlinje TSL 2018-4996.

Pushback är normal procedur för luftfartyg Kod B eller större. Kontakta handlingbolag före ankomst om pushback inte är möjlig.

Flygningar som är undantagna från koordinering i enlighet med EU-förordning (EG) nr. 793/2004 om ändring av rådets förordning (EEG) nr 95/93:

1. Statsflygningar.
2. Humanitära flygningar t.ex. akuta medicinska flygningar, organtransporter, flygningar som deltar i räddningsinsats och ambulansflygningar där patientens tillstånd är akut.
3. Nödlandningar.

Kontaktinformation:

Airport Coordination Sweden ACS
Box 202
SE-190 47 Stockholm-Arlanda
E-post: slot@acslot.se

Telefon: + 46 (0)70 597 82 66, +46 (0)70 757 43 45

SCR/GCR: scr@airportcoordination.com
OCS: www.online-coordination.com

Utanför kontorstid kontaktas Airport Operation Center - OPC:

Telefon: +46 (0)10 109 36 01
E-post: OPCGOT@swedavia.se

För mer information: <http://airportcoordination.com>

2. Marktjänst

Anlitande av marktjänstbolag är obligatoriskt för alla flygningar till och från GÖTEBORG/Landvetter. Undantaget är ambulansflyg (HOSP), statsluftfartyg (HEAD eller STATE) och polishelikoptrar.

Operatörer skall försäkra sig om att arrangemang med marktjänstbolag finns före ankomst och avgång. För ytterligare information om marktjänst: www.swedavia.com.

3. Undantag från krav på dubbelriktad radioförbindelse med TWR kan medges endast för överföringsflygning till eller från flygplatsen i samband med erforderligt underhållsarbete på flygplanet.

4. Enligt miljödom gäller restriktioner för visuella inflygningar. Endast propellerdrivna luftfartyg med MTOM 7000 kg eller lägre får utföra visuella inflygningar H24.

5. Då förhållandena så medger bör reversering utöver IDLE REVERSE eller motsvarande ej utföras.

The parking time is limited to 18 hours for non scheduled cargo flights according to Local Rule TSL 2018-4996.

Pushback is normal procedure for aircrafts Code B and larger. Contact handling agent before arrival if pushback is not possible.

Flights that are exempted from coordination according to EU Regulation (EC) No. 793/2004 amending Council Regulation (EEC) No. 95/93:

1. State flights.
2. Humanitarian flights i.e. medical emergencies, donor flights, search and rescue operations and air ambulance flights where the condition of patient is urgent.
3. Emergency landings.

Contact information:

Airport Coordination Sweden ACS
Box 202
SE-190 47 Stockholm-Arlanda
E-mail: slot@acslot.se

Phone: + 46 (0)70 597 82 66, +46 (0)70 757 43 45

SCR/GCR: scr@airportcoordination.com
OCS: www.online-coordination.com

During Out of Office hours contact Airport Operation Center - OPC:

Phone: +46 (0)10 109 36 01
E-mail: OPCGOT@swedavia.se

For more information: <http://airportcoordination.com>

2. Ground Handling

All flights to and from GÖTEBORG/Landvetter are subject to mandatory handling. Exceptions apply for hospital flights (HOSP), state aircraft (HEAD or STATE) and police helicopters.

Operators shall assure arrangements with ground handling agent prior to arrival and departure. For further information about handling services: www.swedavia.com.

3. Exemptions from the requirement for two-way radiocommunication with TWR will only be granted for ferry flight to or from the aerodrome in connection with necessary maintenance on the aircraft.

4. Visual approach procedures limited due to environmental law decision. Only propeller driven aircraft with MTOM 7000 kg or below is permitted to carry out visual approach H24.

5. When conditions permit do not use more than IDLE REVERSE or equivalent.

6. Restriktioner för skol- och övningsflygning:

- a. Skol- och övningsflyg med starter, landningar eller inflygningar/utflygningar är inte tillåtet. Undantag kan medges för luftfartyg över 8 ton MTOM, PPR H24 ska sökas hos flygtrafikledningen (LFV), via epost: esggws@lfv.se.

Simulering av motorbortfall på en eller flera motorer är inte tillåtet.

Flyguppvisning inom Landvetter CTR är inte tillåten.

b. Till ansökan ska följande anges:

- Flygplanstyp
- Antal start och landningsövningar
- Tid som önskas för skol och övning

Observera att godkänd PPR inte ersätter ansökan om SLOT enligt ESGG 2.20 punkt 1.

- c. Vid godkänt skol- och övningsflyg enligt pkt a) ska följande lägsta höjder för utflygning och trafikvarv användas av jetflygplan:
efter start stig rakt fram till 1500 ft AMSL innan sväng, lägsta höjd i trafikvarv är 2000 ft AMSL.

7. Föreskrifter för markrörelser

7.1 Taxning

- a. ATC utövas inte på plattan. För att upprätthålla ett ordnat flöde på plattorna, tillhandahålls en begränsad trafikinformationstjänst och alla flygplansrörelser på plattan ska anmälas till TWR.

- b. Avgående luftfartyg skall taxa via TWY Z om inte annan instruktion lämnas. TWY Z får användas av luftfartyg med vingspann högst 62 m.

- c. Ankommande flygplan skall taxa via TWY Y.

- d. TWY D får användas av luftfartyg med vingspann högst 52 m.

- e. Centrumlinjeljus saknas på platta mellan TWY F och uppställningsplatserna 1-3. Ledsagning är obligatorisk vid RVR under 350 m eller när dagermarkeringar ej är synliga.

- f. Minsta möjliga motoreffekt skall användas vid taxning på plattan.

7.2 Ankomst

- a. TWY D skall inte användas som avfart RWY 03 om inte annan instruktion lämnas av TWR.

- b. TWY E skall inte användas som avfart RWY 21. Undantag kan göras för HOSP eller luftfartyg av kategori LÄTT.

- c. TWY C skall inte användas som avfart RWY 03. Undantag kan göras för HOSP eller luftfartyg av kategori LÄTT.

6. Restrictions for school and training flights:

- a. School and exercise flights with starts, landings or approaches/departures are not allowed. Exceptions may be granted for aircraft over 8 tonnes MTOM, PPR H24 shall be requested from air traffic control (LFV) by mail: esggws@lfv.se .

Simulation of engine failure on one or more engines is not permitted.

Air display within Landvetter CTR is not permitted.

b. The request must state the following:

- Aircraft type
- Number of start and landing exercises
- Time desired for school and exercise

Note that the approved PPR does not replace the application for SLOT according to ESGG 2.20 para 1.

- c. For approved school and exercise flights according to point a), the following minimum altitudes for departure and traffic circuit shall be used by jet aircraft:
after departure climb straight ahead to 1500 ft AMSL before turning, minimum altitude in traffic circuit is 2000 ft AMSL.

7. Ground movement procedures

7.1 Taxiing

- a. ATC is not provided on apron. In order to maintain orderly flow on aprons, a limited traffic information service is provided and all aircraft movements are subject to prior contact with TWR.

- b. Departing aircraft shall taxi via TWY Z unless otherwise instructed. TWY Z is limited to aircraft having a max wingspan of 62 m.

- c. Arriving aircraft shall taxi via TWY Y.

- d. TWY D is limited to aircraft having a max wingspan of 52 m.

- e. Apron taxiway between TWY F and stands 1-3 is not equipped with centre line lights. Marshalling is mandatory when RVR is lower than 350 m or when daylight markings are not visible.

- f. Engines shall be operated at minimum power required when taxiing on apron.

7.2 Arrival

- a. TWY D not to be used for exit RWY 03 unless instructed by TWR.

- b. TWY E not to be used for exit RWY 21. Exemptions can be made for HOSP or aircraft category LIGHT.

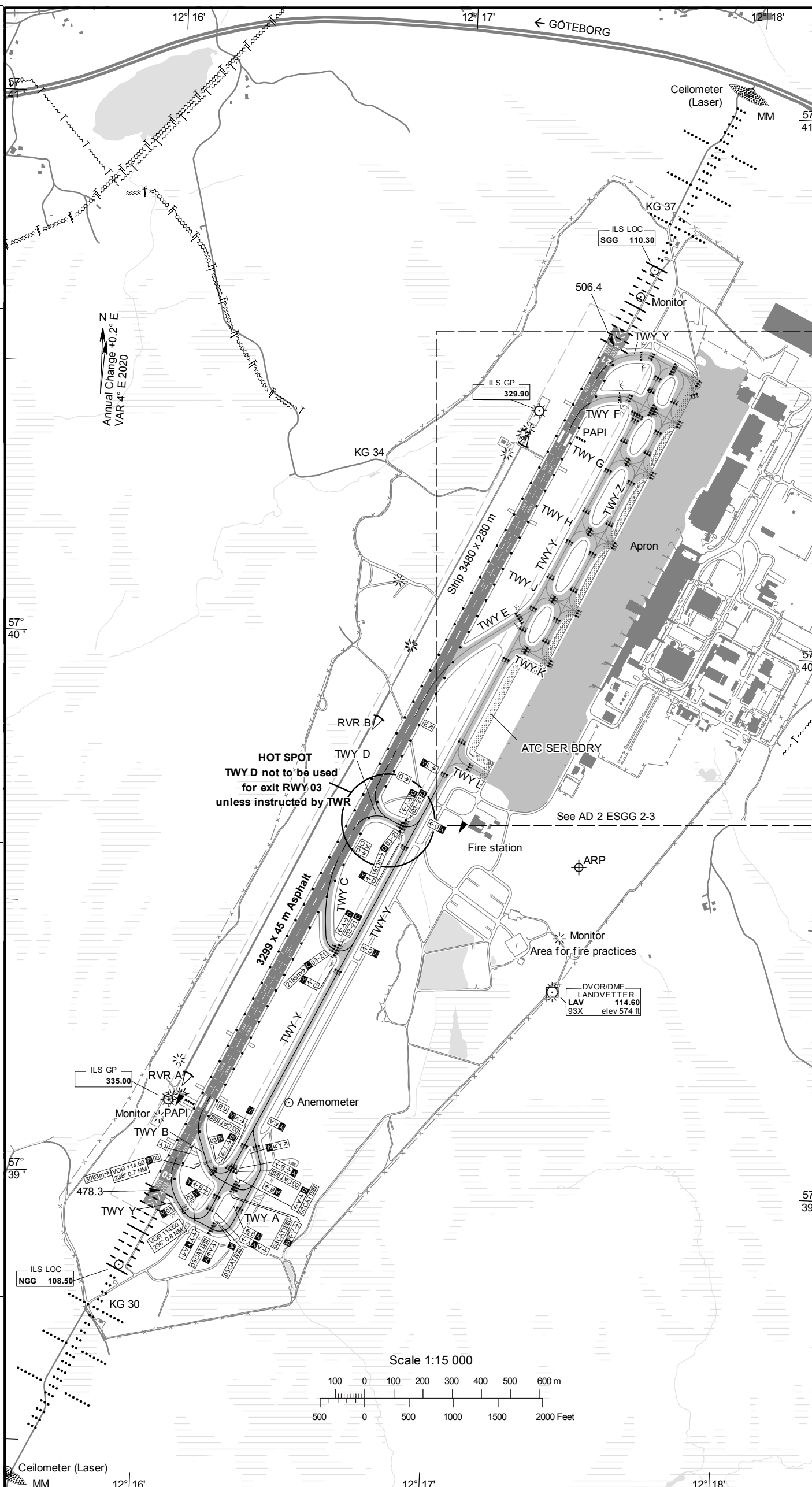
- c. TWY C not to be used for exit RWY 03. Exemptions can be made for HOSP or aircraft category LIGHT.

ARP 573936N 0121728E

AD ELEV 507 FEET

LEGEND See GEN 2.3

Dimensions in m, ELEV in ft



TWY NR	WIDTH	Surface Bearing strength	Day marking		Taxiway lighting	
			Centerline Holding	Edge Centerline	RGL Stopbar	Stopbar
A	23 m	ASPH PCN 70 F/B/X/T	CL HLDG	CL		Stopbar
B	23 m	ASPH PCN 70 F/B/X/T	CL HLDG	CL		RGL Stopbar
C	23 m	ASPH PCN 70 F/B/X/T	CL HLDG	CL		RGL Stopbar
D	23 m	ASPH PCN 70 F/B/X/T	CL HLDG	CL		RGL Stopbar
E	23 m	ASPH PCN 70 F/B/X/T	CL HLDG	CL		RGL Stopbar
F	23 m	ASPH PCN 70 F/B/X/T	CL HLDG	CL		RGL Stopbar
G	23 m	ASPH PCN 70 F/B/X/T	CL	CL		
H	23 m	ASPH PCN 70 F/B/X/T	CL	CL		
J	23 m	ASPH PCN 70 F/B/X/T	CL	CL		
K	23 m	ASPH PCN 70 F/B/X/T	CL	CL		
L	23 m	ASPH PCN 70 F/B/X/T	CL	CL		
Y	23 m	ASPH PCN 70 F/B/X/T	CL HLDG	CL		RGL Stopbar
Z	23 m	ASPH PCN 70 F/B/X/T	CL HLDG	CL		Stopbar

REMARKS:

Apron TWY surface and bearing strength; ASPH, PCN 70 F/B/X/T

TWY B, C, D, E, F, Y: Centreline on exit TWY:s within ILS critical/sensitive areas and centreline within 150 m from RWY centreline -alternately green and yellow

MAX wingspan 52 m on TWY D.

INS Coordinates for Aircraft Stands			
APRON Surface Bearing strength	NR	COORD	ELEV
Apron CONC+ASPH		See AD 2 ESGG 2-4	

TWR 118.605

AERODROME CHART - ICAO

AD 2 ESGG 2-1
GÖTEBORG/Landvetter

LFV

CHANGE: VOR checkpoint sign

AIRAC AMDT6/2024 28 NOV 2024

RWY NR	TRUE & MAG BRG	THR PSN Geoid undulation	Bearing Strength	THR ELEV and highest ELEV of TDZ of precision APCH RWY	Declared distances				Approach and runway lighting					
					TORA	TODA	ASDA	LDA	APCH	THR TRID TDZ	VASIS (MEHT)	RWY CL	Edge	End
03	025.98° GEO 022° MAG	573858.29N 0121603.75E GUND 116.7 ft	PCN 81 F/B/X/T	THR 478.3 ft TDZ 493 ft	3299	3299	3299	3299	Calvert Cat III 900 m LIH	THR Green TDZ White 900 m	PAPI Left/3.00° (59.4 ft)	3299/15 m 0-2400 m white 2400-3000 m white/red 3000-3299 m red LIH	3299/60 m White Caution zone 600 m yellow LIH	Red
21	206.00° GEO 202° MAG	574034.13N 0121730.95E GUND 116.5 ft	PCN 81 F/B/X/T	THR 506.4 ft TDZ 506 ft	3299	3299	3299	3299	Calvert Cat III 900 m LIH	THR Green TDZ White 900 m	PAPI Left/3.00° (56.4 ft)	3299/15 m 0-2400 m white 2400-3000 m white/red 3000-3299 m red LIH	3299/60 m White Caution zone 600 m yellow LIH	Red



ARP 573936N 0121728E
AD ELEV 507 FEET

LEGEND See GEN 2.3
Dimensions in m, ELEV in ft

TWY A-Z width 23 m, bearing strength PCN 70 F/B/X/T
TWY centre line lights green
Lead in lights yellow
Turning guidance light yellow

TWY B, C, D, E, F, Y: Centreline on exit TWY's within ILS critical/sensitive areas and centerline within 150 m from RWY centerline - alternately green and yellow.

MAX wingspan TWY Z 62 m
MAX wingspan TWY entry to Apron:
TWY F: 65 m
TWY G: 65 m
TWY H: 48.2 m
TWY J: 65 m
TWY K: 65 m
TWY L: 65 m

Docking system type
FMT APIS
SAFEDOCK

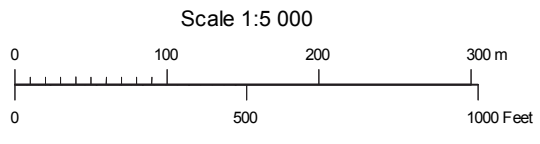
Stands Number
5A, 8-17, 19-20, 30-41A
21-23B

STRAIGHT – THROUGH PROCEDURE
When taxiing on apron CAUTION advised. The Straight Through procedure still remains. The aircraft shall then proceed straight into intersections until the pilot is aligned with the centreline before turning to desired direction or lead-in line to parking position

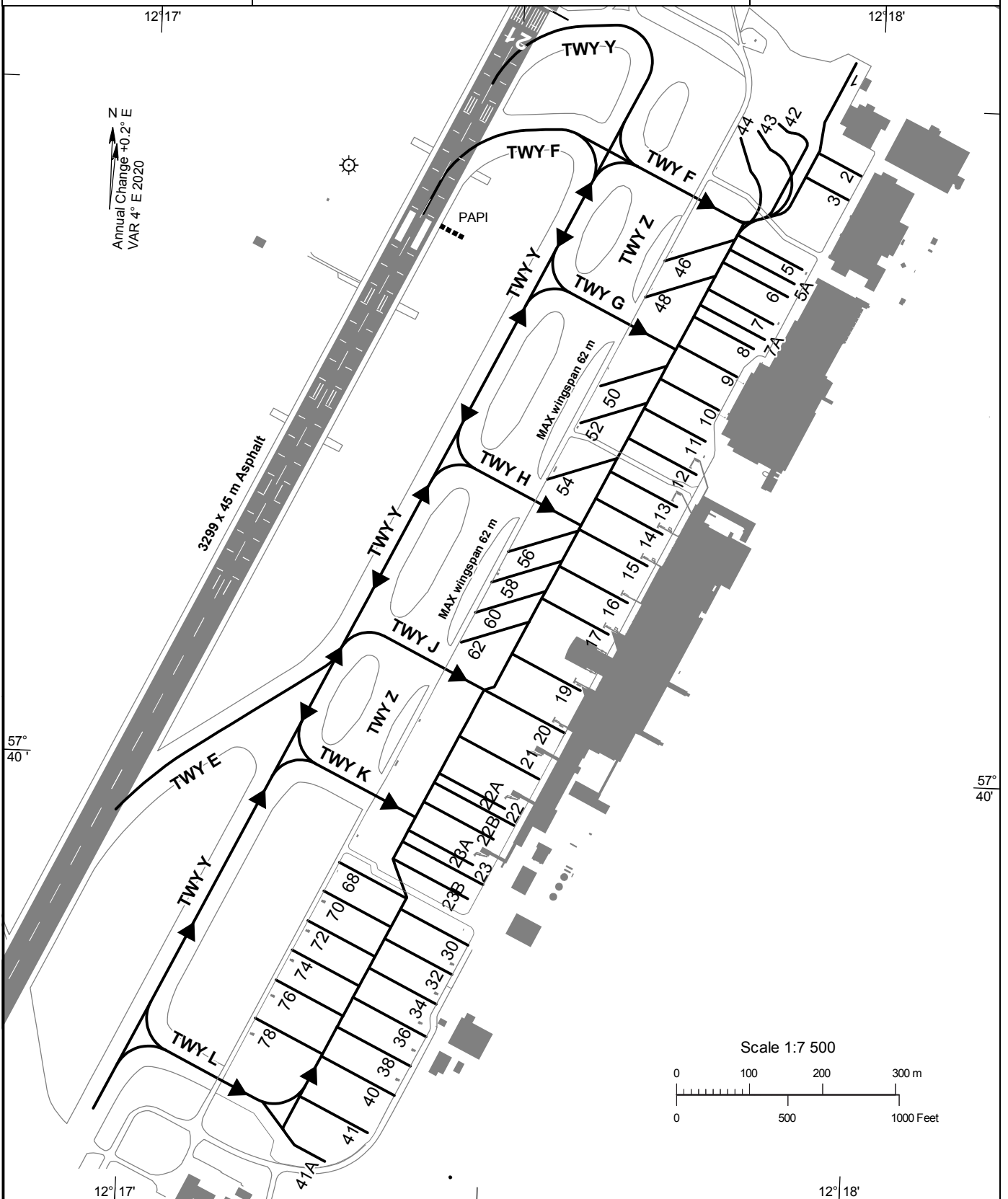
Self-maneuvering procedure for stand 1-3.
Stop Aircraft when pilots eye view are at an angle of 90° to stipline at the stand.

LEGEND

- TDZ lights
- Reflectors



ACL/INS Reference points						GÖTEBORG/Landvetter					
STAND	INS COORD		ELEV ft	PARKING AID	BEARING STRENGTH	STAND	INS COORD		ELEV ft	PARKING AID	BEARING STRENGTH
1	574031.70N	0121757.44E	507		PCN 45 F/B/X/U	32	573951.01N	0121726.33E	502	APIS	PCN 90 F/B/X/U
2	574027.23N	0121757.56E	507		PCN 62 F/B/X/U	34	573949.67N	0121725.11E	503	APIS	PCN 90 F/B/X/U
3	574026.14N	0121756.57E	507		PCN 62 F/B/X/U	36	573948.33N	0121723.90E	505	APIS	PCN 90 F/B/X/U
5	574022.88N	0121753.29E	507		PCN 60 R/B/X/T	38	573946.88N	0121723.10E	506	APIS	PCN 90 F/B/X/U
5A	574022.12N	0121753.09E	507	APIS	PCN 60 R/B/X/T	40	573945.55N	0121721.88E	507	APIS	PCN 90 F/B/X/U
6	574021.65N	0121752.17E	507		PCN 60 R/B/X/T	41	573943.76N	0121720.11E	507	APIS	PCN 90 F/B/X/U
7	574020.41N	0121751.05E	507		PCN 60 R/B/X/T	41A	573942.37N	0121716.84E	508	APIS	PCN 90 F/B/X/U
7A	574019.61N	0121750.81E	507		PCN 60 R/B/X/T	42	574029.16N	0121751.47E	506		PCN 79 R/B/X/T
8	574019.26N	0121749.62E	506	APIS	PCN 60 R/B/X/T	43	574028.81N	0121749.79E	506		PCN 44 F/B/X/T
9	574017.97N	0121748.35E	506	APIS	PCN 90 R/B/X/U	44	574028.47N	0121748.35E	506		PCN 66 R/B/X/T
10	574016.46N	0121746.97E	505	APIS	PCN 90 R/B/X/U	46	574022.99N	0121743.11E	507		PCN 41 F/B/X/T
11	574015.05N	0121745.96E	504	APIS	PCN 90 R/B/X/U	48	574021.34N	0121741.60E	507		PCN 41 F/B/X/T
12	574013.58N	0121745.23E	504	APIS	PCN 40 R/B/X/T	50	574017.29N	0121737.96E	506		PCN 34 R/B/X/T
13	574012.07N	0121743.86E	503	APIS	PCN 40 R/B/X/T	52	574015.60N	0121736.43E	505		PCN 34 R/B/X/T
14	574010.83N	0121742.73E	502	APIS	PCN 40 R/B/X/T	54	574013.09N	0121734.14E	504		PCN 34 R/B/X/T
15	574009.44N	0121741.46E	503	APIS	PCN 56 R/B/X/T	56	574009.81N	0121731.25E	503		PCN 52 R/B/X/T
16	574007.76N	0121739.94E	503	APIS	PCN 56 R/B/X/T	58	574008.44N	0121729.98E	503		PCN 52 R/B/X/T
17	574006.30N	0121738.60E	502	APIS	PCN 56 R/B/X/T	60	574007.06N	0121728.72E	502		PCN 52 R/B/X/T
19	574003.80N	0121736.27E	502	APIS	PCN 56 R/B/X/T	62	574005.68N	0121727.47E	502		PCN 52 R/B/X/T
20	574002.00N	0121734.64E	503	APIS	PCN 56 R/B/X/T						
21	573959.81N	0121733.03E	502	Safedock	PCN 70 R/B/X/T						
22A	573958.48N	0121730.14E	501	Safedock	PCN 70 R/B/X/T						
22	573957.71N	0121731.11E	502	Safedock	PCN 70 R/B/X/T	68	573955.38N	0121718.24E	501		PCN 90 F/B/X/U
22B	573957.04N	0121729.55E	501	Safedock	PCN 70 F/B/X/T	70	573954.07N	0121717.05E	501		PCN 90 F/B/X/U
23A	573955.90N	0121727.79E	501	Safedock	PCN 70 R/B/X/T	72	573952.74N	0121715.83E	503		PCN 90 F/B/X/U
23	573955.05N	0121728.63E	502	Safedock	PCN 70 R/B/X/T	74	573951.40N	0121714.61E	504		PCN 90 F/B/X/U
23B	573954.34N	0121727.63E	502	Safedock	PCN 70 F/B/X/T	76	573950.04N	0121713.36E	505		PCN 90 F/B/X/U
30	573952.41N	0121727.29E	501	APIS	PCN 90 F/B/X/U	78	573948.33N	0121711.69E	506		PCN 90 F/B/X/U



ARRIVAL

REMARK: TWY Y ("OUTER") FOR INTAXING.

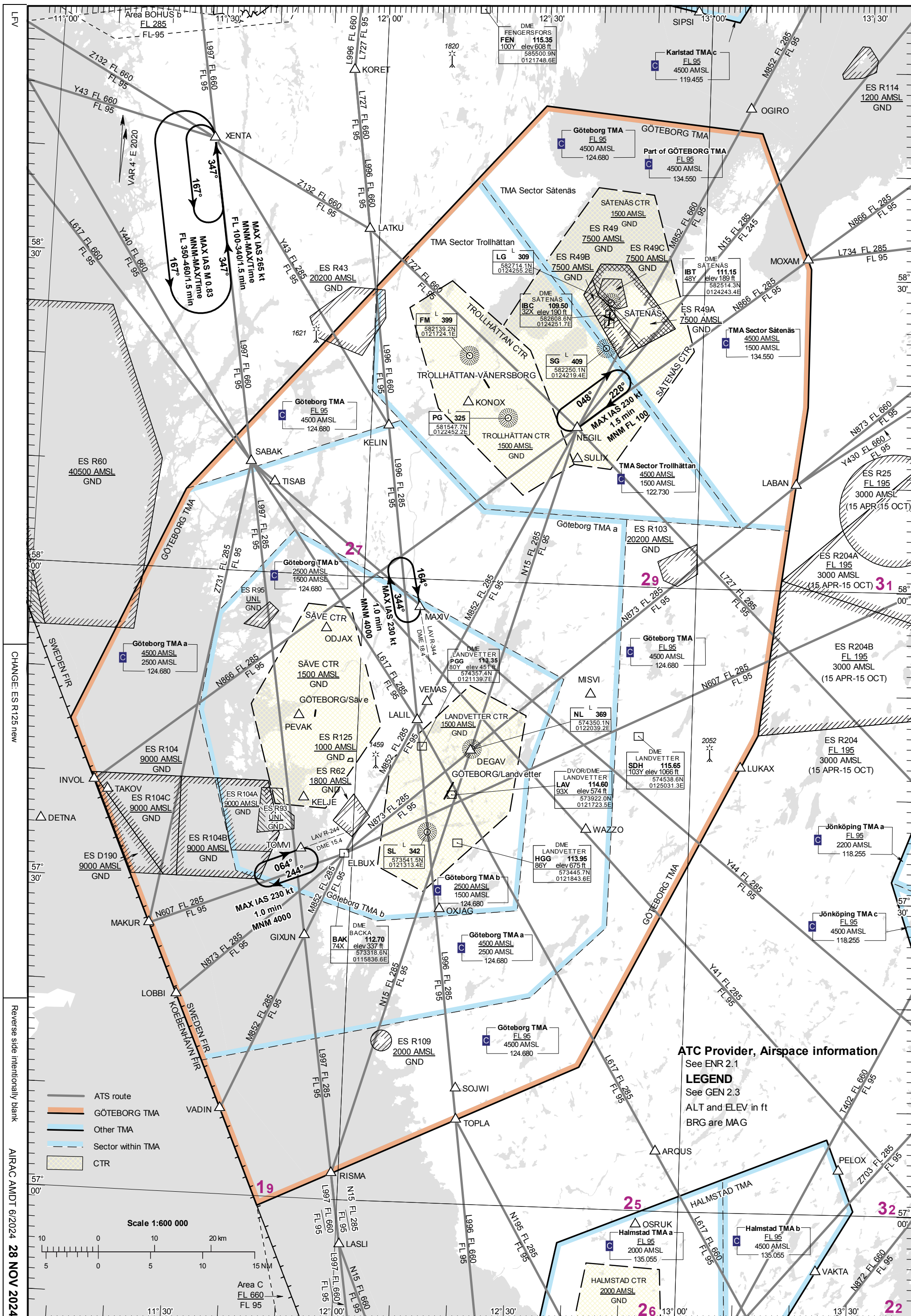
Exception:

Entry via TWY E access to stands
30, 32, 34, 36, 38, 40, 41A, 68, 70, 72, 74, 22A-23B
by TWY J

MAX wingspan TWY Z 62 m

MAX wingspan TWY entry to Apron:

- TWY F: 65 m
- TWY G: 65 m
- TWY H: 48.2 m
- TWY J: 65 m
- TWY K: 65 m
- TWY L: 65 m



CHANGE: ES R125 new

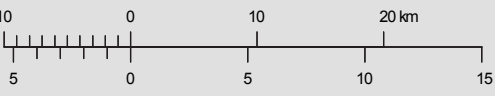
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AIRAC AMDT 6/2024 28 NOV 2024

ATC Provider, Airspace information
 See ENR 2.1
LEGEND
 See GEN 2.3
 ALT and ELEV in ft
 BRG are MAG

- ATS route
- GÖTEBORG TMA
- Other TMA
- Sector within TMA
- CTR

Scale 1:600 000



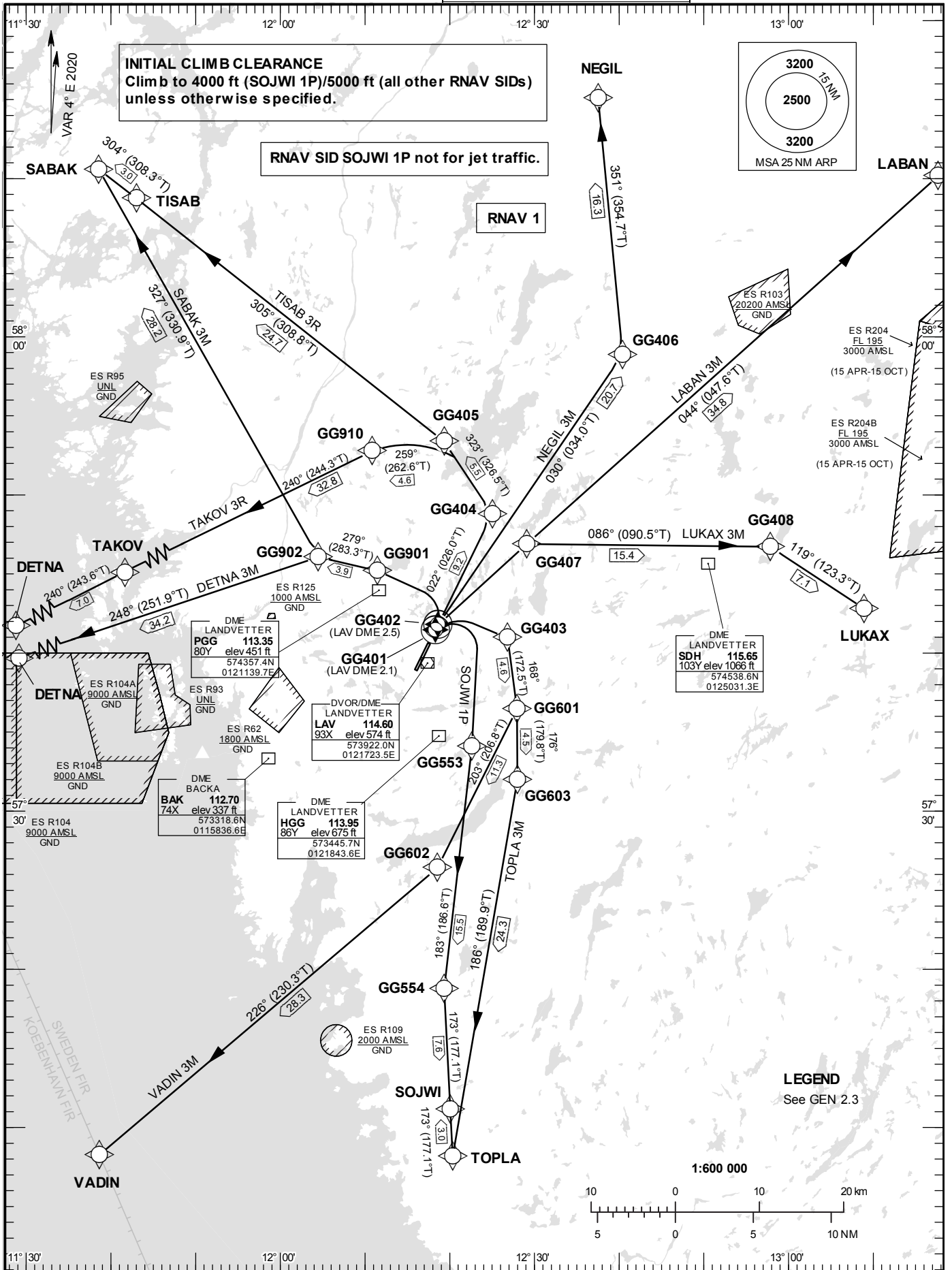
Area C
 FL 660
 FL 95

STANDARD INSTRUMENT
DEPARTURE CHART (SID) -
ICAO

HGT and ALT in ft
BRG are MAG (True)
TA 5000 ft AMSL

LANDVETTER TOWER	118.605
LANDVETTER ATIS	118.380
GÖTEBORG APPROACH	124.680

RNAV (DME/DME or GNSS)
SID RWY 03



Prescribed Coding of RNAV SID (DME/DME or GNSS) for RWY 03

REMARK

INITIAL CLIMB CLEARANCE: Climb to 4000 ft (SOJWI 1P)/5000 ft (all other RNAV SIDs) unless otherwise specified.

All RNAV SIDs are based on RNAV 1.

MNM climb gradient due to terrain/obstacles in individual departures below:
Where no climb gradient is specified 3.3% (200 ft/NM) is assumed.

MNM climb gradient required by ATC: Aircraft proceeding on SID shall use 6.6% (400 ft/NM) as a minimum gradient of climb up to 5000 ft AMSL. Aircraft unable to conform with this procedure shall inform ATC accordingly.

Aircraft from GÖTEBORG/Landvetter shall not be operated at an airspeed of more than 250 kt IAS below FL100 unless otherwise instructed.

When instructed by TWR contact GÖTEBORG APPROACH on frequency indicated adjacent to SID instruction below.

See AD 2.21 para 1.6 for availability.

RNAV SID SOJWI 1P not for jet traffic.

DETNA 3M

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/RDH (°/ft)	Rec Navaid	Navigation Specification
CF	GG401	Y	022°(026.0°)	1.0	-	-	-	-	LAV	RNAV 1
CA	-	-	022°(026.0°)	-	-	+900	-	-	-	RNAV 1
DF	GG901	-	-	-	L	-	-210	-	-	RNAV 1
TF	GG902	-	279°(283.3°)	3.9	-	-	-	-	-	RNAV 1
TF	DETNA	-	248°(251.9°)	34.2	-	-	-	-	-	RNAV 1

SID instruction: Climb on track 022° to GG401 (MNM 900 ft before turn) – GG901 (max IAS 210 kt until GG901) – GG902 – DETNA (MNM climb gradient 6.4% (390 ft /NM) until GG401). **124.680**

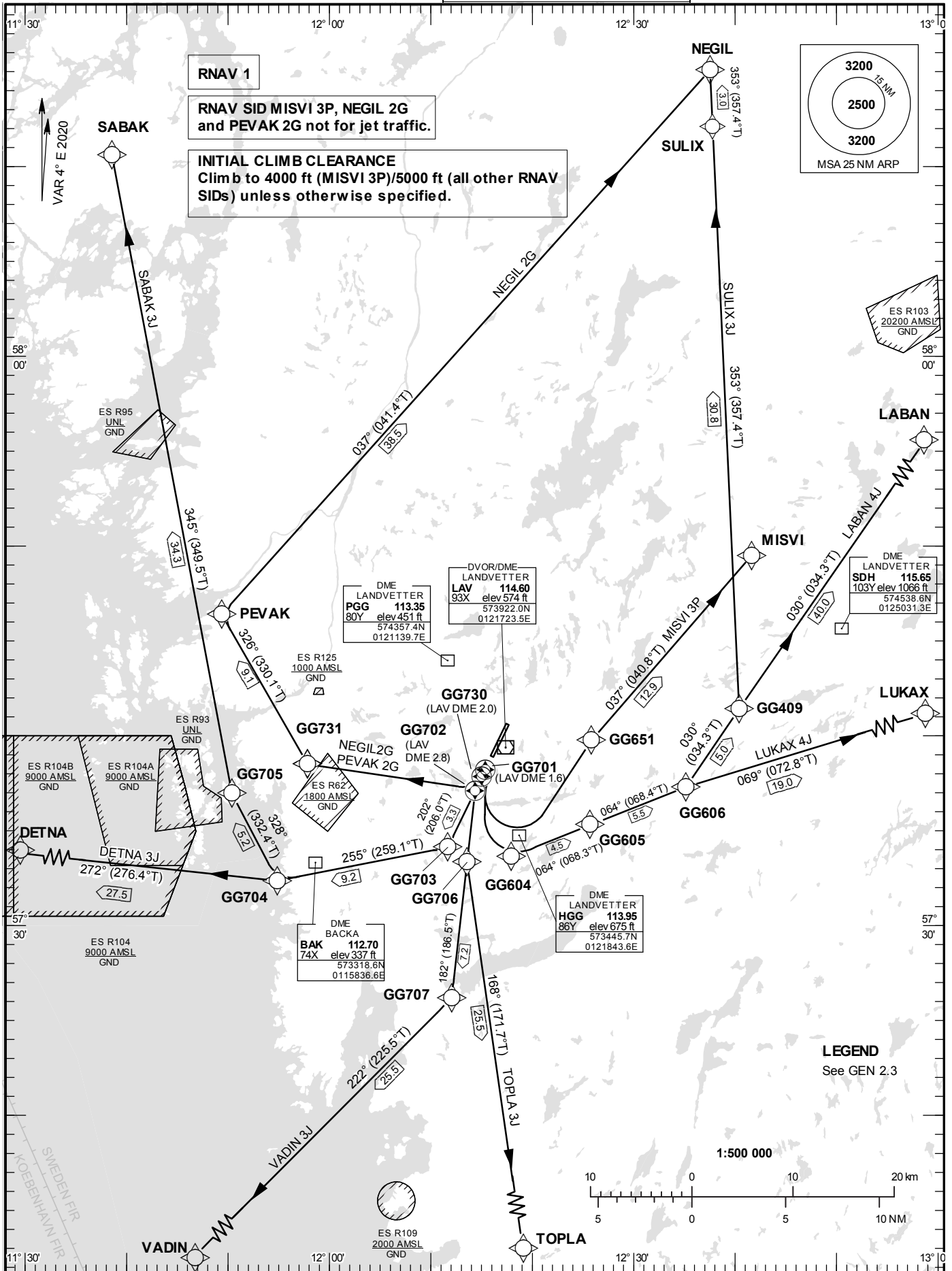
ACFT unable to follow RNAV SID: Report "unable RNAV SID due RNAV type" to Clearance Delivery and "unable RNAV SID" to Göteborg Approach at first contact.
Climb on track 022° to LAV DME 2.1 (MNM 900 ft before turn). Turn left to track 296° (max 210 kt IAS until established on 296°). Expect radar vectors to DETNA. (MNM climb gradient 6.4% (390 ft /NM) until LAV DME 2.1).

STANDARD INSTRUMENT
DEPARTURE CHART (SID) -
ICAO

HGT and ALT in ft
BRG are MAG (True)
TA 5000 ft AMSL

LANDVETTER TOWER	118.605
LANDVETTER ATIS	118.380
GÖTEBORG APPROACH	124.680

RNAV (DME/DME or GNSS)
SID RWY 21



Prescribed Coding of RNAV SID (DME/DME or GNSS) for RWY 21

REMARK

INITIAL CLIMB CLEARANCE: Climb to 4000 ft (MISVI 3P)/5000 ft (all other RNAV SIDs) unless otherwise specified.

All RNAV SIDs are based on RNAV 1.

MNM climb gradient due to terrain/obstacles in individual departures below:
Where no climb gradient is specified 3.3% (200 ft/NM) is assumed.

MNM climb gradient required by ATC: Aircraft proceeding on SID shall use 6.6% (400 ft/NM) as a minimum gradient of climb up to 5000 ft AMSL. Aircraft unable to conform with this procedure shall inform ATC accordingly.

Aircraft from GÖTEBORG/Landvetter shall not be operated at an airspeed of more than 250 kt IAS below FL100 unless otherwise instructed.

When instructed by TWR contact GÖTEBORG APPROACH on frequency indicated adjacent to SID instruction below.

RNAV SID MISVI 3P, NEGIL 2G, PEVAK 2G not for jet traffic.

DETNA 3J

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/RDH (°/ft)	Rec Navaid	Navigation Specification
CF	GG702	Y	202°(206.0°)	2.1	-	-	-	-	LAV	RNAV 1
TF	GG703	-	202°(206.0°)	3.3	-	-	-	-	-	RNAV 1
TF	GG704	-	255°(259.1°)	9.2	-	-	-	-	-	RNAV 1
TF	DETNA	-	272°(276.4°)	27.5	-	-	-	-	-	RNAV 1

SID instruction: Climb on track 202° to GG702 – GG703 – GG704 – DETNA.

124.205

ACFT unable to follow RNAV SID: Report “unable RNAV SID due RNAV type” to Clearance Delivery and “unable SID” to Göteborg Approach at first contact. Climb on track 202° to LAV DME 5.2. Turn right to track 255°. Expect radar vectors to DETNA.

LABAN 4J

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/RDH (°/ft)	Rec Navaid	Navigation Specification
CF	GG701	Y	202°(206.0°)	0.9	-	-	-	-	LAV	RNAV 1
CA	-	-	202°(206.0°)	-	-	+900	-	-	-	RNAV 1
DF	GG604	-	-	-	-	-	-210	-	-	RNAV 1
TF	GG605	-	064°(068.3°)	4.5	L	-	-	-	-	RNAV 1
TF	GG606	-	064°(068.4°)	5.5	-	-	-	-	-	RNAV 1
TF	LABAN	-	030°(034.3°)	40.0	-	-	-	-	-	RNAV 1

SID instruction: Climb on track 202° to GG701 (MNM 900 ft before turn) – GG604 (max IAS 210 kt until GG604) – GG605 – GG606 – LABAN (MNM climb gradient 7.3% (445 ft /NM) until GG701).

124.680

ACFT unable to follow RNAV SID: Report “unable RNAV SID due RNAV type” to Clearance Delivery and “unable RNAV SID” to Göteborg Approach at first contact. Climb on track 202° to LAV DME 1.6 (MNM 900 ft before turn). Turn left to track 153° (max 210 kt IAS until established on 153°). At LAV DME 3.8 turn left to track 065°. Expect radar vectors to LABAN (MNM climb gradient 7.3% (445 ft /NM) until LAV DME 1.6).

LUKAX 4J

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/RDH (°/ft)	Rec Navaid	Navigation Specification
CF	GG701	Y	202°(206.0°)	0.9	-	-	-	-	LAV	RNAV 1
CA	-	-	202°(206.0°)	-	-	+900	-	-	-	RNAV 1
DF	GG604	-	-	-	-	-	-210	-	-	RNAV 1
TF	GG605	-	064°(068.3°)	4.5	L	-	-	-	-	RNAV 1
TF	GG606	-	064°(068.4°)	5.5	-	-	-	-	-	RNAV 1
TF	LUKAX	-	069°(072.8°)	19.0	-	-	-	-	-	RNAV 1

SID instruction: Climb on track 202° to GG701 (MNM 900 ft before turn) – GG604 (max IAS 210 kt until GG604) – GG605 – GG606 – LUKAX (MNM climb gradient 7.3% (445 ft /NM) until GG701). **124.680**

ACFT unable to follow RNAV SID: Report “unable RNAV SID due RNAV type” to Clearance Delivery and “unable RNAV SID” to Göteborg Approach at first contact.
Climb on track 202° to LAV DME 1.6 (MNM 900 ft before turn). Turn left to track 153° (max 210 kt IAS until established on 153°). At LAV DME 3.8 turn left to track 065°. Expect radar vectors to LUKAX. (MNM climb gradient 7.3% (445 ft /NM) until LAV DME 1.6).

MISVI 3P (Not for jet traffic)

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/RDH (°/ft)	Rec Navaid	Navigation Specification
CA	-	-	202°(206.0°)	-	-	1000	-	-	-	RNAV 1
DF	GG651	-	-	-	L	-	-210	-	-	RNAV 1
TF	MISVI	-	037°(040.8°)	12.9	-	-	-	-	-	RNAV 1

SID instruction: Climb on track 202° to 1000 ft – GG651 (max IAS 210 kt until GG651) – MISVI. **124.680**

ACFT unable to follow RNAV SID: Report “unable RNAV SID due RNAV type” to Clearance Delivery and “unable RNAV SID” to Göteborg Approach at first contact.
Climb on track 202° to 1000 ft. Turn left to track 065°, (max 210 kt until established on 065°). Expect radar vectors to MISVI.

NEGIL 2G (Not for jet traffic)

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/RDH (°/ft)	Rec Navaid	Navigation Specification
CF	GG730	Y	202°(206.0°)	1.3	-	-	-	-	LAV	RNAV 1
CA	-	-	-	-	-	+900	-	-	-	RNAV 1
DF	GG731	-	-	-	-	-	-210	-	-	RNAV 1
TF	PEVAK	-	326°(330.1°)	9.1	-	-	-	-	-	RNAV 1
TF	NEGIL	-	037°(041.4°)	38.5	-	-	-	-	-	RNAV 1

SID instruction: Climb on track 202° to GG730 (MNM 900 ft before turn) – GG731 (max IAS 210 kt until GG731) – PEVAK – NEGIL (MNM climb gradient 4.9% (300 ft /NM) until GG730). **124.205**

ACFT unable to follow RNAV SID: Report “unable RNAV SID due RNAV type” to Clearance Delivery and “unable RNAV SID” to Göteborg Approach at first contact.
Climb on track 202° to LAV DME 2.0 (MNM 900 ft before turn). Turn right to track 276° (max IAS 210 kt until established on track 276°). Expect radar vectors to NEGIL.
(MNM climb gradient 4.9% (300 ft /NM) until LAV DME 2.0).

PEVAK 2G (Not for jet traffic)

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/ RDH (°/ft)	Rec Navaid	Navigation Specification
CF	GG730	Y	202°(206.0°)	1.3	-	-	-	-	LAV	RNAV 1
CA	-	-	-	-	-	+900	-	-	-	RNAV 1
DF	GG731	-	-	-	-	-	-210	-	-	RNAV 1
TF	PEVAK	-	326°(330.1°)	9.1	-	-	-	-	-	RNAV 1

SID instruction: Climb on track 202° to GG730 (MNM 900 ft before turn) – GG731 (max IAS 210 kt until GG731) – PEVAK (MNM climb gradient 4.9% (300 ft /NM) until GG730). **124.205**

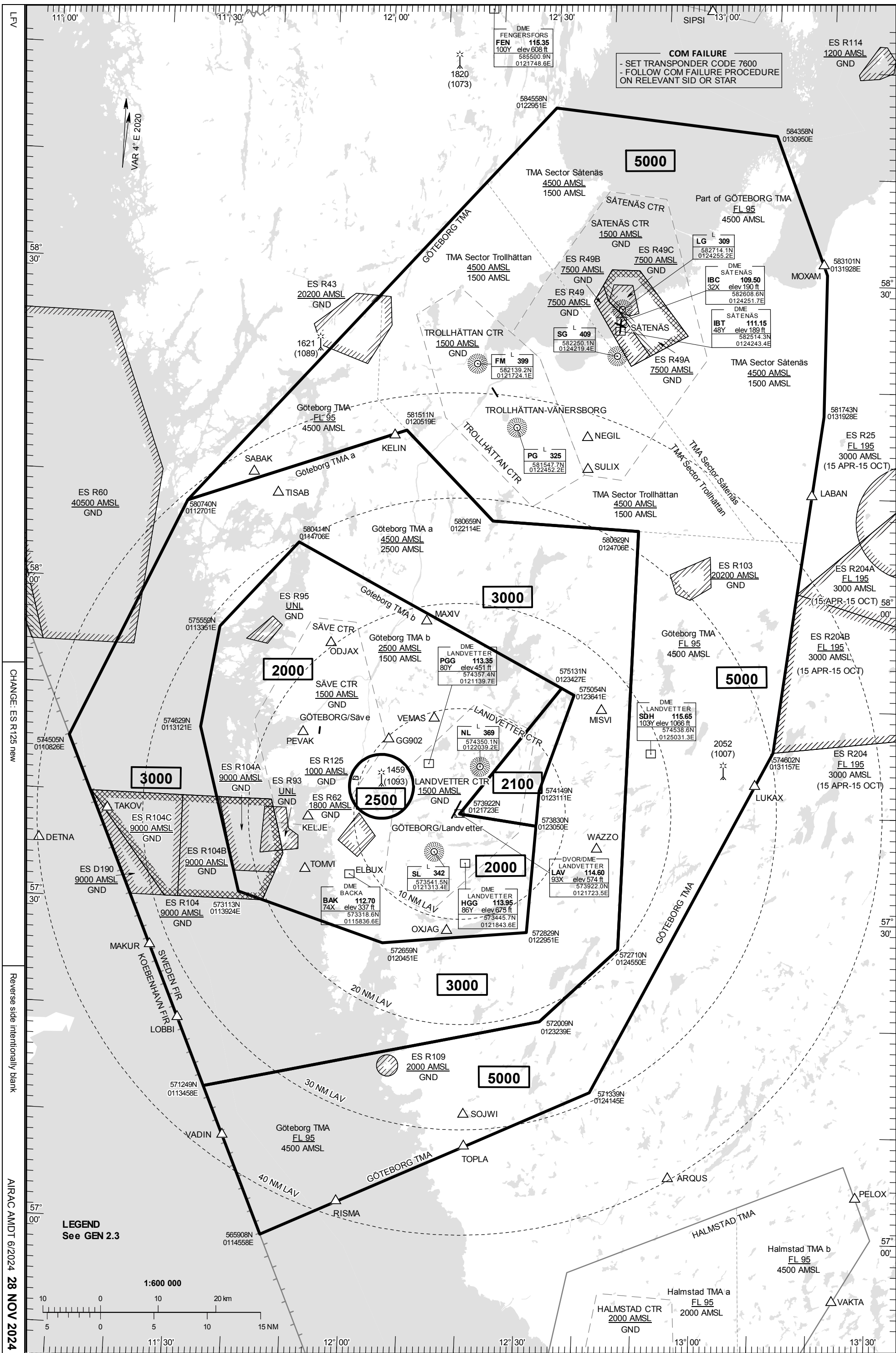
ACFT unable to follow RNAV SID: Report “unable RNAV SID due RNAV type” to Clearance Delivery and “unable RNAV SID” to Göteborg Approach at first contact.
Climb on track 202° to LAV DME 2.0 (MNM 900 ft before turn). Turn right to track 276° (max IAS 210 kt until established on track 276°). Expect radar vectors to PEVAK.
(MNM climb gradient 4.9% (300 ft /NM) until LAV DME 2.0).

SABAK 3J

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/ RDH (°/ft)	Rec Navaid	Navigation Specification
CF	GG702	Y	202°(206.0°)	2.1	-	-	-	-	LAV	RNAV 1
TF	GG703	-	202°(206.0°)	3.3	-	-	-	-	-	RNAV 1
TF	GG704	-	255°(259.1°)	9.2	-	-	-	-	-	RNAV 1
TF	GG705	-	328°(332.4°)	5.2	-	-	-	-	-	RNAV 1
TF	SABAK	-	345°(349.5°)	34.3	-	-	-	-	-	RNAV 1

SID instruction: Climb on track 202° to GG702 – GG703 – GG704 – GG705 – SABAK. **124.205**

ACFT unable to follow RNAV SID: Report “unable RNAV SID due RNAV type” to Clearance Delivery and “unable RNAV SID” to Göteborg Approach at first contact.
Climb on track 202° to LAV DME 5.2. Turn right to track 255°. Expect radar vectors to SABAK.



AIP SWEDEN	ESGG AD ELEV 507 FEET	LANDVETTER TOWER	118.605
HGT and ALT in ft		LANDVETTER ATIS	123.100
TA 5000 AMSL		GÖTEBORG APPROACH	118.380
			114.600
			124.205
			124.680
		ATC Surveillance Minimum Altitude Chart – GÖTEBORG	
		AD 2 ESGG 4-91	

COM FAILURE
 - SET TRANSPONDER CODE 7600
 - FOLLOW COM FAILURE PROCEDURE ON RELEVANT SID OR STAR

VAR 4° E 2020

LEGEND
 See GEN 2.3

1:600 000



CHANGE: ES R125 new

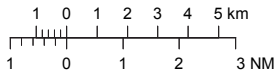
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AIRAC AMDT 6/2024 28 NOV 2024

THIS CHART MAY ONLY BE USED FOR CROSS-CHECKING OF ASSIGNED ALTITUDES WHILE IN RECEIPT OF RADAR SERVICE LEVELS ASSIGNED BY ATC INCLUDE A CORRECTION FOR LOW TEMPERATURE EFFECT

VISUAL APPROACH CHART - ICAO

1:250000



AD ELEV 507 FEET

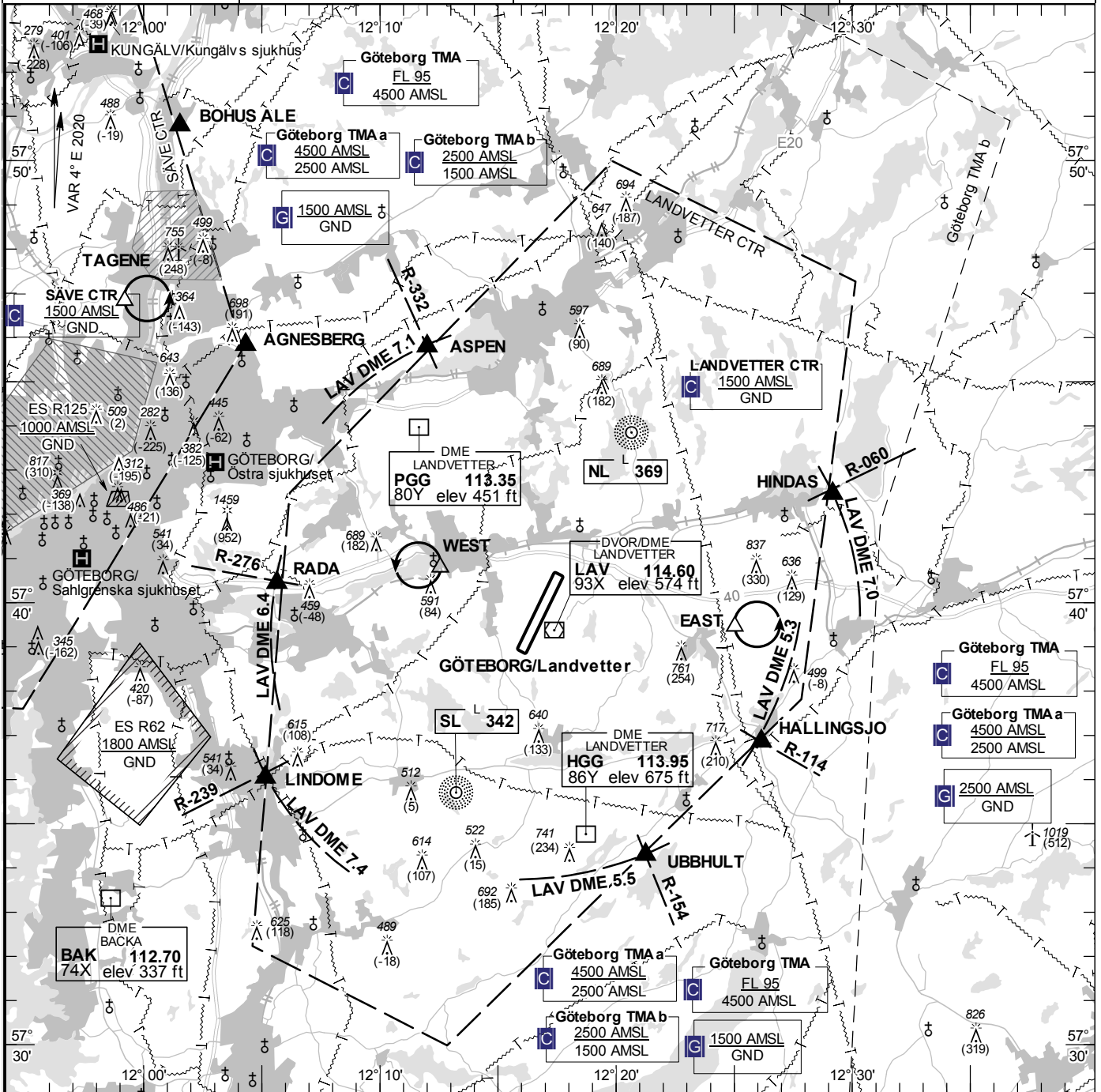
ELEV and ALT in ft
HGT in ft above AD ELEV

TA 5000 AMSL

LANDVETTER TOWER	118.605
	123.100
LANDVETTER GROUND	121.905
CLR DELIVERY	121.680
LANDVETTER ATIS	118.380
	114.600

AD 2 ESGG 6-1

GÖTEBORG/Landvetter SWEDEN



Communication failure

Aircraft outside CTR having received no clearance should land at an aerodrome outside CTR and obtain clearance by telephone for further flight to Göteborg/Landvetter. If no suitable aerodrome is within reach;

- 1 SQUAWK 7600
- 2 Enter CTR via RADA to Holding WEST at or below 1500 ft AMSL. Transmit blind your intentions.
- 3 In holding stand by for optical signals from TWR.

Remark

Obstacle below 197 ft AGL not shown in CTR.

RWY NR	THR ELEV	PAPI (MEHT)
03	478.3 ft	Left/3.00° (59 ft)
21	506.4 ft	Left/3.00° (56 ft)

Legend
See GEN 2.3

Entry / exit point

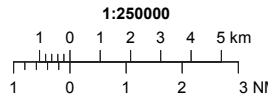
ASPEN	574547N 0121200E
HINDAS	574227N 0122910E
HALLINGSJO	573651N 0122609E
UBBHULT	573417N 0122115E
LINDOME	573602N 0120509E
RADA	574026N 0120538E

Holding

EAST: Hold south of road 40 and east of power line, east of point 573927N 0122502E

WEST: Hold west of LANDVETTER church, west of point 574047N 0121232E

VISUAL APPROACH CHART - ICAO



AD ELEV 59 FEET

ELEV and ALT in ft
 HGT in ft above AD ELEV

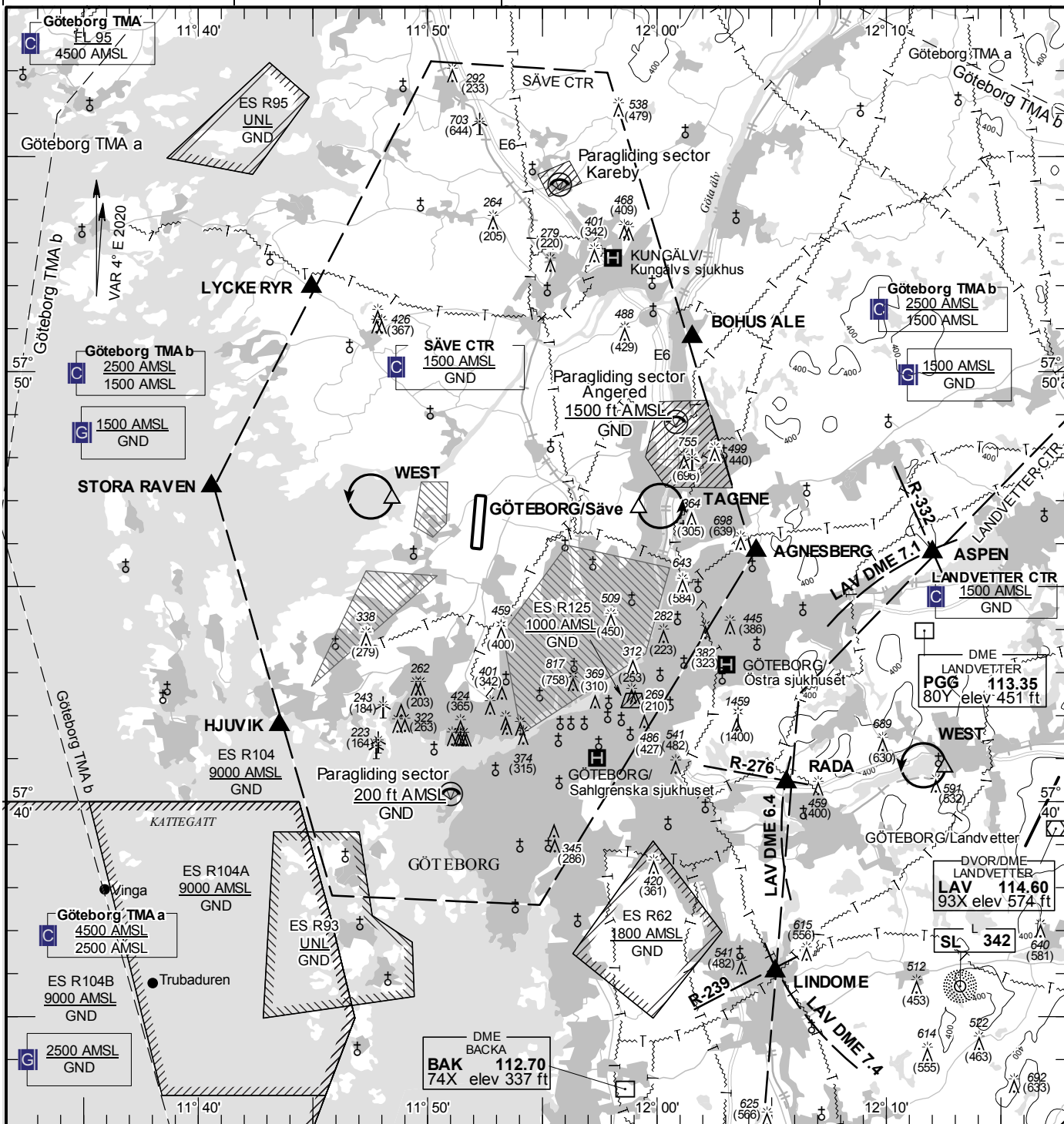
TA 5000 AMSL

SÄVE TOWER

119.055

AD 2 ESGP 6-1

**GÖTEBORG/Säve
 SWEDEN**



Communication failure

- 1 SQUAWK 7600
- 2 Enter CTR via AGNESBERG - Holding TAGENE or via STORA RAVEN – Holding WEST at or below 1500 ft AMSL to join traffic circuit.
Transmit blind your intentions.
- 3 Flash LDG-lights and watch TWR for optical signals.

Remark

Obstacle below 197 ft AGL not shown in CTR.
 Noise sensitive area, to be avoided.

RWY	THR	PAPI
NR	ELEV	(MEHT)
01	51 ft	NIL
19	48 ft	NIL

Legend
 See GEN 2.3

Entry / exit point

LYCKE RYR	575157N 0114456E
BOHUS ALE	575047N 0120132E
AGNESBERG	574549N 0120419E
HJUVIK	574146N 0114332E
STORA RAVEN	574719N 0114034E

Holding

TAGENE:	Hold over gravel pit east of point 574649N 0115912E
WEST:	Hold west of Nolvik over the sea, west of point 574702N 0114826E

ESOH 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT Type, LEN INTST	THR LGT Colour WBAR	VASIS (MEHT)	TDZ LGT LEN	RWY Centre Line LGT LEN, Spacing Colour INTST	RWY Edge LGT LEN, Spacing Colour INTST	RWY End LGT Colour WBAR	SWY LGT LEN, Colour
1	2	3	4	5	6	7	8	9
18	Barrette CL CAT I 900 m LIL/LIH	Green	PAPI Left/3.00° (50.0 ft)	-	-	1508/60 m White Caution zone 600 m yellow LIL/LIH	Red	-
36	-	Green	PAPI Left/3.00° (21.5 ft)	-	-	1508/60 M White Caution zone 600 m yellow LIL/LIH	Red	-
10 Remarks: -								

ESOH 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1. ABN/IBN location, characteristics and hours of operation -
2. LDI location and LGT
Anemometer location and LGT Lighted windsock S apron, windsocks at RWY ends
At PAPI RWY 18
3. TWY edge and centre line lighting Edge: TWY A
CL: -
4. Secondary power supply/switch-over time Available/15 sec
5. Remarks -

ESOH 2.16 HELICOPTER LANDING AREA

RWY 18/36 to be used

ESOH 2.17 ATS AIRSPACE

1. Designation and lateral limits HAGFORS TIZ/RMZ 600844N 0133718E - 600132N 0134406E -
595352N 0133915E - 595339N 0133141E -
600100N 0132526E - 600832N 0133016E -
600844N 0133718E
2. Vertical limits HAGFORS TIZ/RMZ 1000 ft GND
GND
3. Airspace classification G
4. ATS unit call sign HAGFORS INFORMATION
Language(s) Swedish/English
5. Transition altitude 5000 ft AMSL
6. Remarks Continuous two-way radiocommunication required in TIZ/RMZ.
TIZ/RMZ established during hours of AFIS.

ESOH 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
AFIS	HAGFORS INFORMATION	122.230	HO	-
		121.500	HO	-

ESOH 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
LOC 18 ILS CAT I (5° E 2020)	IHF	110.10 MHz	H24	600042.9N 0133447.5E		155 m beyond THR 36 ILS Class I/D/2
GP		334.40 MHz	H24	600125.7N 0133434.4E		Angle 3.0° RDH 49.9 ft 330 m THR 18 right side
L 18	HT	345 kHz	H24	600634.7N 0133403.0E		Range 15 NM
L 36	AB	393 kHz	H24	595701.5N 0133509.0E		Range 15 NM
DME	IHF	110.10 MHz	H24	600125.6N 0133434.2E	488 ft	DME channel 38X

ESOH 2.20 LOKALA TRAFIKFÖRESKRIFTER

- NDB 36 och AB väntläge får användas efter tillstånd från ESOK ATS. Se ESOH-5-4.
- För landning utanför ATS öppethållning ska avsikt att landa och tid till landning tydligt aviseras på kanalen för Hagfors AFIS, följt av att banan korsas på trafikvarvshöjd +500 ft för säkerställande av fri tillgänglighet samt för att uppmärksamma flygplatspersonal.
- För start utanför ATS öppethållning ska avsikt att starta samt tid till start tydligt aviseras på kanalen för Hagfors AFIS.

LOCAL TRAFFIC REGULATIONS

- NDB 36 and AB holding is available with prior permission from ESOK ATS. See ESOH-5-4.
- For landing outside ATS operational hours intention to land and time to landing shall be clearly declared on channel for Hagfors AFIS, followed by a RWY crossing at AD traffic pattern altitude +500 ft in order to verify RWY availability and to alert AD personnel of presence.
- For take-off outside ATS operational hours intention to start and time to start shall be clearly declared on channel for Hagfors AFIS.

ESOH 2.21 MINSKNING AV BULLERSTÖRNING

- Överflygning av Råda samhälle (SE RWY 18) och Uddeholm samhälle bör undvikas.
- Upprepade studs-och-gå är förbjudet mellan 2100-0500 (2000-0400).

NOISE ABATEMENT PROCEDURES

- Overflying Råda (SE end RWY 18) and Uddeholm should be avoided.
- Repeated touch-and-go landings are prohibited between 2100-0500 (2000-0400).

AD 2 AERODROMES

ESUT 2.1 AERODROME LOCATION INDICATOR AND NAME

ESUT – HEMAVAN TÄRNABY

ESUT 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	ARP coordinates and site at AD	654822N 0150458E RWY centre point
2.	Direction and distance from (city)	SSW 0.5 NM from Hemavan
3.	Elevation/Reference temperature	1503 ft/+19.1°C
4.	Geoid undulation at AD ELEV PSN	107 ft
5.	MAG VAR/Annual change	8° E 2025/+0.2 increasing
6.	Administration, address, telephone, fax, AFS	Hemavan Tärnaby Airport Älvstigen SE-925 93 Hemavan TEL: +46 (0)954 305 30 E-mail: info@htairport.se AFS: ESUTZTZX Website: www.hemavantarnabyairport.se
7.	Types of traffic permitted (IFR/VFR)	IFR/VFR. Max RWY ref code 3C
8.	Remarks	PPR request shall be made to www.hemavantarnabyairport.se

ESUT 2.3 OPERATIONAL HOURS

1.	AD Administration AD Operating hours	HX O/R TEL +46 (0)954 305 30
2.	Customs and immigration	-
3.	Health and sanitation	-
4.	AIS Briefing Office	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
5.	ATS Reporting Office (ARO)	As ATS
6.	MET Briefing Office	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
7.	ATS	Ref AIP SUP/NOTAM
8.	Fuelling	O/R
9.	Handling	O/R
10.	Security	O/R
11.	De-Icing	O/R
12.	Remarks	Increased charges outside hours of scheduled operations

ESUT 2.4 HANDLING SERVICES AND FACILITIES

- | | | |
|----|--|--|
| 1. | Cargo-handling facilities | O/R |
| 2. | Fuel/oil types | Fuel Jet A1
Oil - |
| 3. | Fuelling facilities/discharge capacity | Jet A1: 30,000 l stationary pressure fuelling |
| 4. | De-icing facilities | Available, Type I and II, mobile unit |
| 5. | Hangar space for visiting ACFT | O/R |
| 6. | Repair facilities for visiting ACFT | - |
| 7. | Remarks | For payment of fuel major credit cards accepted. |

ESUT 2.5 PASSENGER FACILITIES

- | | | |
|----|----------------------|---|
| 1. | Hotels | In Hemavan |
| 2. | Restaurants | In Hemavan |
| 3. | Transportation | Taxis |
| 4. | Medical facilities | In Tärnaby 20 km |
| 5. | Bank and Post Office | ATM in Tärnaby 20 km, Post Office in Hemavan 1 km |
| 6. | Tourist Office | In Hemavan 1 km |
| 7. | Remarks | - |

ESUT 2.6 RESCUE AND FIRE FIGHTING SERVICES

- | | | |
|----|---|---|
| 1. | AD category for fire fighting | CAT 5 for SKED TFC, CAT 6 O/R 24HR PN |
| 2. | Rescue equipment | Tracked vehicles, rescue boat |
| 3. | Capability for removal of disabled aircraft | Aerodrome Coordinator during AD Operating hours
TEL: +46 (0)703 33 07 49 |
| 4. | Remarks | During periods of reduced aerodrome activity, RFFS level of protection may be lowered to a level corresponding to the largest aircraft using the aerodrome during that period. Non-commercial operations and specialised operation below 5700 kg exempted or O/R. |

ESUT 2.7 SEASONAL AVAILABILITY – CLEARING

- | | | |
|----|-----------------------------|---|
| 1. | Types of clearing equipment | Snowplough, blower, sweeper, slinger, spreader |
| 2. | Clearance priorities | RWY, TWY, other rescue access roads, PAPI, ILS, Apron |
| 3. | Remarks | AD uses frozen SAND for treatment of RWY
No clearing SAT and outside TWR HR of OPS |

ESUT 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	Apron surface and strength	Apron ASPH PCN 19 F/B/X/T
2.	Taxiway width, surface and strength	TWY A 15 m ASPH PCN 19 F/B/X/T
3.	ACL, location and elevation	See ESUT 2-1
4.	VOR checkpoints	-
5.	INS checkpoints	-
6.	Remarks	-

ESUT 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of ACFT stands	Taxi guide lines and signs. Marshalling available.
2.	RWY and TWY markings and LGT	RWY 15/33: Designator, THR, TDZ, CL and edges are day marked RTHL, REDL, RENL TWY A: CL, HLDG day marked. Edge lights, RGL
3.	Stop bars	-
4.	Remarks	-

ESUT 2.10 AERODROME OBSTACLES

In Area 2					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT in feet	Markings/ Type, colour	Remarks
a	b	c	d	e	f
ESUT1	Pole	654755.9N 0150525.8E	1509 / -	-	-
ESUT2	Sign	654753.4N 0150530.1E	1510 / -	-	-
ESUT3	Vegetation	654736.7N 0150546.1E	1541 / -	-	-
ESUT4	Vegetation	654736.0N 0150548.2E	1544 / -	-	-
ESUT5	Vegetation	654737.8N 0150600.7E	1548 / -	-	-
ESUT6	Vegetation	654735.9N 0150607.1E	1552 / -	-	-
ESUT7	Vegetation	654735.6N 0150607.9E	1554 / -	-	-
ESUT8	Vegetation	654735.6N 0150614.3E	1599 / -	-	-
ESUT9	Vegetation	654721.2N 0150637.9E	1626 / -	-	-
ESUT10	Pole	654843.0N 0150436.4E	1510 / -	-	-
ESUT11	Pole	654843.6N 0150427.4E	1511 / -	-	-
ESUT12	Vegetation	654844.6N 0150421.5E	1516 / -	-	-
ESUT13	Vegetation	654844.9N 0150422.3E	1518 / -	-	-
ESUT14	Vegetation	654845.6N 0150422.2E	1519 / -	-	-
ESUT15	Vegetation	654849.0N 0150434.1E	1522 / -	-	-
ESUT16	Vegetation	654851.7N 0150426.9E	1530 / -	-	-
ESUT17	Vegetation	654854.0N 0150424.6E	1549 / -	-	-
ESUT18	Vegetation	654855.0N 0150425.0E	1555 / -	-	-

In Area 3					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
Not available					

ESUT 2.11 METEOROLOGICAL INFORMATION PROVIDED

- | | | |
|-----|--|---|
| 1. | Associated MET Office | STOCKHOLM/Arlanda |
| 2. | Hours of service
MET Office outside hours | H24 |
| 3. | Office responsible for TAF preparation
Periods of validity | TAF not produced |
| 4. | Type of landing forecast
Interval of issuance | Not issued |
| 5. | Briefing/consultation provided | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 6. | Flight documentation
Language(s) used | METAR, SIGMET, Upper air winds
Swedish/English |
| 7. | Charts and other information available for
briefing or consultation | SWC, WC, Nordic SIGWX Chart, Low level forecast |
| 8. | Supplementary equipment available for
providing information | - |
| 9. | ATS units provided with information | HEMAVAN AFIS |
| 10. | Additional information (limitation of service,
etc.) | Flight planning room available |

ESUT 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	True BRG and MAG BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APCH RWY
1	2	3	4	5	6
15	152.54° GEO 145° MAG	1445 x 30	PCN 24 F/B/X/T ASPH	654839.69N 0150435.37E GUND 107 ft	THR 1503 ft
33	332.56° GEO 325° MAG	1445 x 30	PCN 24 F/B/X/T ASPH	654758.27N 0150527.81E GUND 107.1 ft	THR 1502.5 ft TDZ 1503 ft

Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
15 Info not avbl.	-	-	1744 x 280	-	-
33 Info not avbl.	-	-	1744 x 280	-	-

ESUT 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
15	1594	1594	1594	1445	Including RWY starter extension 148 m
33	1593	1593	1593	1445	Including RWY starter extension 147 m

ESUT 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT Type, LEN INTST	THR LGT Colour WBAR	VASIS (MEHT)	TDZ LGT LEN	RWY Centre Line LGT LEN, Spacing Colour INTST	RWY Edge LGT LEN, Spacing Colour INTST	RWY End LGT Colour WBAR	SWY LGT LEN, Colour
1	2	3	4	5	6	7	8	9
15	-	Green	PAPI Left/3.50° (40.0 ft)	-	-	1445/60 m White Caution zone 600 m yellow LIL/LIH	Red	-
33	Barrette CL CAT I 720 m LIL/LIH	Green	PAPI Left/3.00° (26.2 ft)	-	-	1445/60 m White Caution zone 600 m yellow LIL/LIH	Red	-

10 Remarks: -

ESUT 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1. ABN/IBN location, characteristics and hours of operation -
2. LDI location and LGT Anemometer location and LGT Windsock NW RWY centre point lighted, at RWY ends unlighted 96 m SW THR 15 lighted, 310 m NW THR 33 lighted
3. TWY edge and centre line lighting Edge: TWY A
CL: -
4. Secondary power supply/switch-over time Available/15 sec
5. Remarks -

ESUT 2.16 HELICOPTER LANDING AREA

RWY 15/33 to be used

ESUT 2.17 ATS AIRSPACE

1. Designation and lateral limits HEMAVAN TIZ/RMZ 655603N 0150308E - 653844N 0153053E - 653407N 0150913E - 655235N 0144659E - 655603N 0150308E
2. Vertical limits HEMAVAN TIZ/RMZ 1000 ft GND
GND
3. Airspace classification G
4. ATS unit call sign Language(s) HEMAVAN INFORMATION Swedish/English
5. Transition altitude 9000 ft AMSL
6. Remarks Continuous two-way radiocommunication required in TIZ/RMZ. TIZ/RMZ established during hours of AFIS.

ESUT 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
AFIS	HEMAVAN INFORMATION	122.980	HO	-
		121.500	HO	-

ESUT 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
LOC 15 (8° E 2025)	WUT	111.50 MHz	H24	654749.9N 0150538.4E		293 m beyond THR 33 Limited coverage to ±10° from CL
LOC 33 ILS CAT I (8° E 2025)	IUT	110.10 MHz	H24	654851.5N 0150420.4E		412 m beyond THR 15 ILS Class I/D/2 Limited coverage to ±10° from CL
GP		334.40 MHz	H24	654805.2N 0150509.2E		Angle 3.0° RDH 53.8 ft 300 m past THR 33 left side W CL coverage limited to 4°
L 33	SUT	342 kHz	H24	654239.5N 0151205.2E		Range 25 NM
L	NUT	325 kHz	H24	655009.8N 0150244.0E		Range 25 NM
DME	IUT	110.10 MHz	H24	654805.1N 0150508.7E	1535 ft	Limited coverage outside sectors 130-170° and 260-360° DME channel 38X

ESUT 2.20 LOKALA TRAFIKFÖRESKRIFTER

- Högervarv tillämpas när RWY 15 är i användning.
- Vid landning enligt VFR utanför ATS öppethållning ska avsikt att landa samt ETA tydligt aviseras på kanal 122.980 och en s.k. "visuell överflygning" av banan genomförs för att säkerställa fri tillgänglighet samt att uppmärksamma eventuell flygplatspersonal och annan trafik på banan. Är banan inte tillgänglig i sin fulla längd och bredd ska inte landning genomföras.
- Vid start utanför ATS öppethållning ska avsikt att starta tydligt aviseras på kanal 122.980. Är banan inte tillgänglig i sin fulla längd och bredd ska inte start genomföras.
- Fordonstrafik kan förekomma på färdområdet utanför ATS öppethållning.

LOCAL TRAFFIC REGULATIONS

- Right hand traffic circuit when RWY 15 is in use.
- For VFR landing outside ATS hours of operation the intention to land and the ETA shall be clearly declared on channel 122.980 followed by a "visual fly over check" in order to verify runway availability and alerting any AD personnel and other traffic on the runway. If the runway is not available in its full length and width, the landing shall not be carried out.
- For take-off outside ATS hours of operation the intention to take-off shall clearly be declared on channel 122.980. If the runway is not available in its full length and width, the take-off shall not be carried out.
- Vehicles may occur in the movement area outside ATS opening hours.

ESUT 2.21 MINSKNING AV BULLERSTÖRNING

NIL

NOISE ABATEMENT PROCEDURES

NIL

ESUT 2.22 FLYGPROCEDURER

FLIGHT PROCEDURES

1 Startprocedurer, omnidirectional

1 Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
15	Climb straight ahead with MNM 610 ft/NM (10.0%) to MNM turning ALT 3800 ft. Continue climb to appropriate MSA. Sector 010° – 124° GEO from ARP not to be entered until ALT 5700 ft is reached.	Tree (CIO)	1544	159°/1568
		Terrain (CIO)	1657	162°/2600
		Tree	2931	131°/6784
		Terrain	2953	130°/6600
		Terrain	4380	357°/9900
		Tree	5418	049°/9694
		Terrain	5732	042°/12510
		Terrain	5830	044°/12600
33	Climb straight ahead with MNM 700 ft/NM (11.5%) to MNM turning ALT 4700 ft. Continue climb to appropriate MSA. Sector 010° – 124° GEO from ARP not to be entered until ALT 5700 ft is reached.	Antenna (CIO)	1535	339°/1525
		Terrain (CIO)	1657	346°/3000
		Tree	3612	352°/9260
		Terrain	4032	357°/10825
		Terrain	4380	354°/11000
		Tree	4400	354°/11195
		Terrain	5732	038°/13124
		Terrain	5830	039°/13000

2 Lägsta RVR för avgående trafik är 400 m.

2 Minimum RVR for departing traffic is 400 m.

ESUT 2.23 ÖVRIG INFORMATION

ADDITIONAL INFORMATION

1 Flygplatsen är belägen i fjällterräng. Svår turbulens och nedsvep kan förekomma i flygplatsens närhet vid vindhastigheter över 20 kt samtliga vindriktningar.

1 The aerodrome is surrounded by high ground. Severe turbulence and down draft may occur in the vicinity of the aerodrome at wind speeds above 20 kt, all directions.

2 Beviljade undantag från krav i CS-ADR-DSN

2 Granted exemptions from requirements in CS-ADR-DSN

- Helikopterhangar tränger igenom inflygningsytan.
- Terminal/Torn genomtränger övergångsytan.
- Det finns fasta hinder i flygplatsens hinderlytor som inte är försedda med hinderljus.

- Helicopter hangar is penetrating approach surface.
- Terminal/Tower penetrating transitional surface.
- There are fixed obstacles in the airport's obstacle areas that are not lighted.

3 Belysning från bilväg samt skidbackar kan vara missledande/störande vid inflygning till bana 15/33.

3 Lights from road and ski area may be misleading/disturbing during approach to RWY 15/33.

ESUT 2.24 TILLHÖRANDE KARTOR

RELATED CHARTS

AD chart

ESUT 2-1

AOC

RWY 15/33

ESUT-3-1

List of waypoints and significant points

ESUT 4-3

IAC

ILS or LOC RWY 33

ESUT 5-1

IAC

LOC RWY 15

ESUT 5-2

IAC

RNP RWY 15 (LNAV only)

ESUT 5-3

IAC

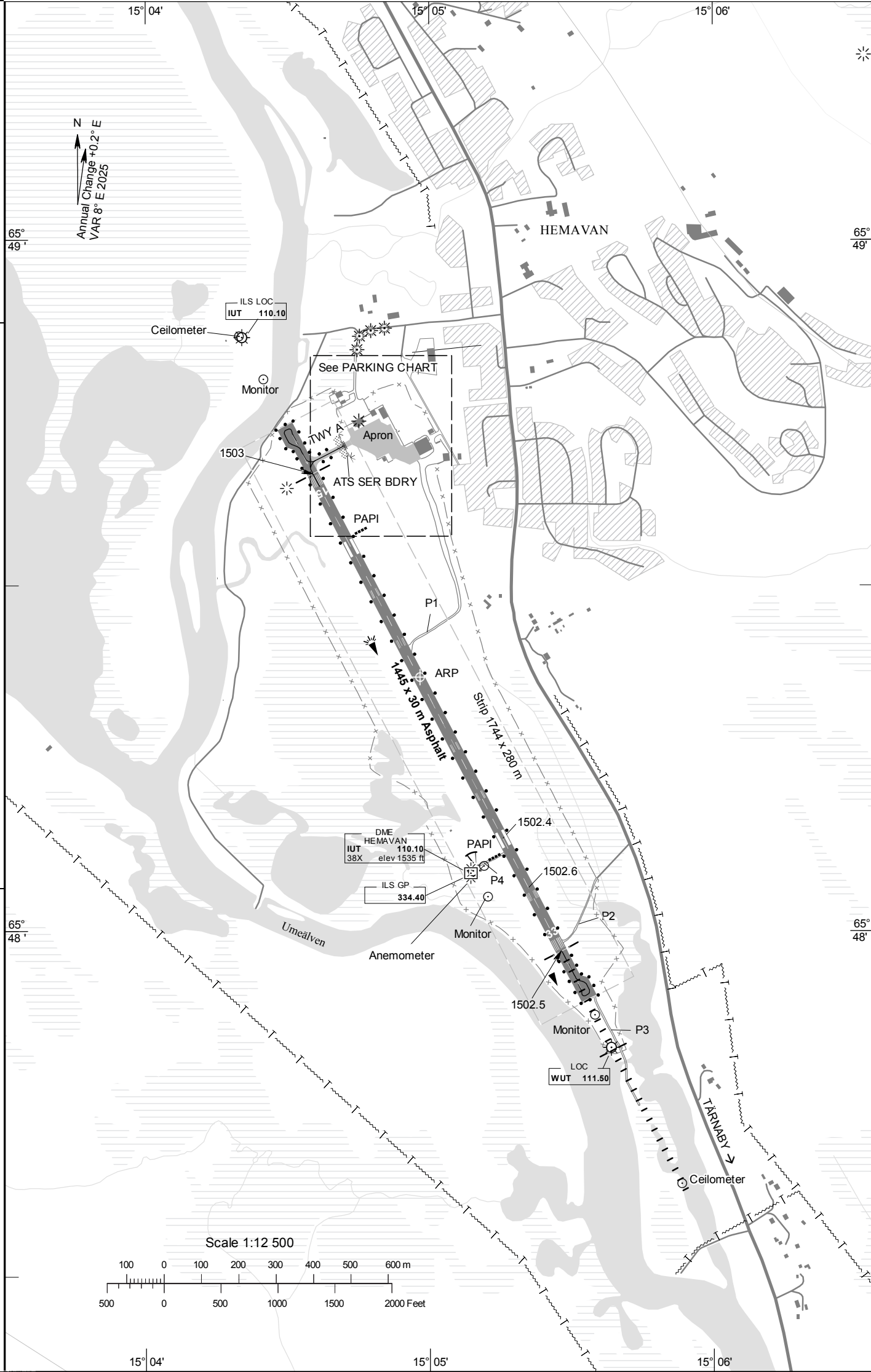
RNP RWY 33

ESUT 5-5

VAC

ESUT 6-1

LFV
CHANGE: VAR



✧ ARP 654822N 0150458E
AD ELEV 1503 FEET
LEGEND See GEN 2.3
Dimensions in m, ELEV in ft

AIP SWEDEN

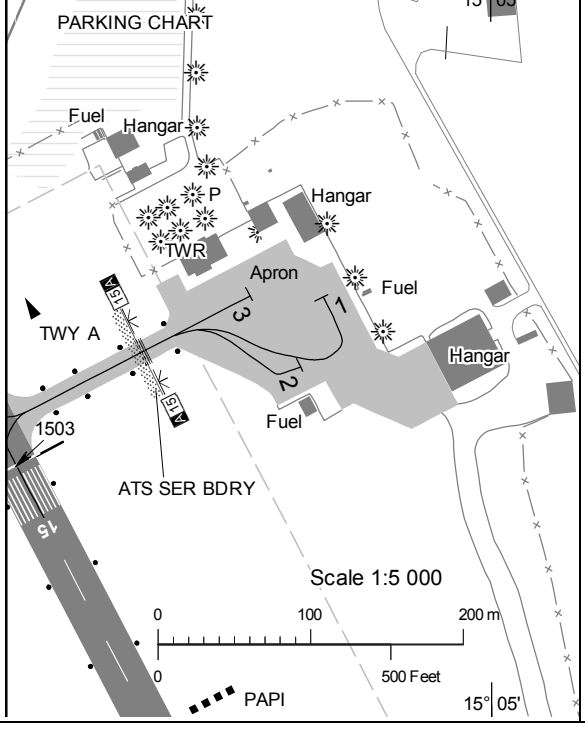
TWY NR	WIDTH	Surface Bearing strength	Day marking		Taxiway lighting	
			Centerline Holding	Edge Centerline	RGL Stopbar	RGL
A	15 m	ASPH PCN 19 F/B/X/T	CL HLDG	EDGE	RGL	RGL

ACL/INS Coordinates for Aircraft Stands			
APRON Surface Bearing strength	NR	COORD	ELEV
ASPH PCN 19 F/B/X/T	1	654843.29N 0150451.31E	1502
	2	654841.80N 0150450.14E	1504
	3	654843.32N 0150447.53E	1503

AFIS 122.980

RWY NR	TRUE & MAG BRG	THR PSN Geoid undulation	Bearing strength	THR ELEV and highest ELEV of TDZ of precision APCH RWY	Declared distances				Approach and runway lighting				
					TORA	TODA	ASDA	LDA	APCH	THR TRID TDZ	VASIS (MEHT)	Edge	End
15	152.54° GEO 145° MAG	654839.69N 0150435.37E GUND 107 ft	PCN 24 F/B/X/T	THR 1503 ft	1594	1594	1594	1445		THR Green	PAPI Left/3.50° (40.0 ft)	1445/60 m White Caution zone 600 m yellow LIL/LIH	Red
33	332.56° GEO 325° MAG	654758.27N 0150527.81E GUND 107.1 ft	PCN 24 F/B/X/T	THR 1502.5 ft TDZ 1503 ft	1593	1593	1593	1445	Barrette CL Cat I 720 m LIL/LIH	THR Green	PAPI Left/3.00° (26.2 ft)	1445/60 m White Caution zone 600 m yellow LIL/LIH	Red

REMARK: RWY 15/33 TORA, TODA, ASDA including RWY starter extension.



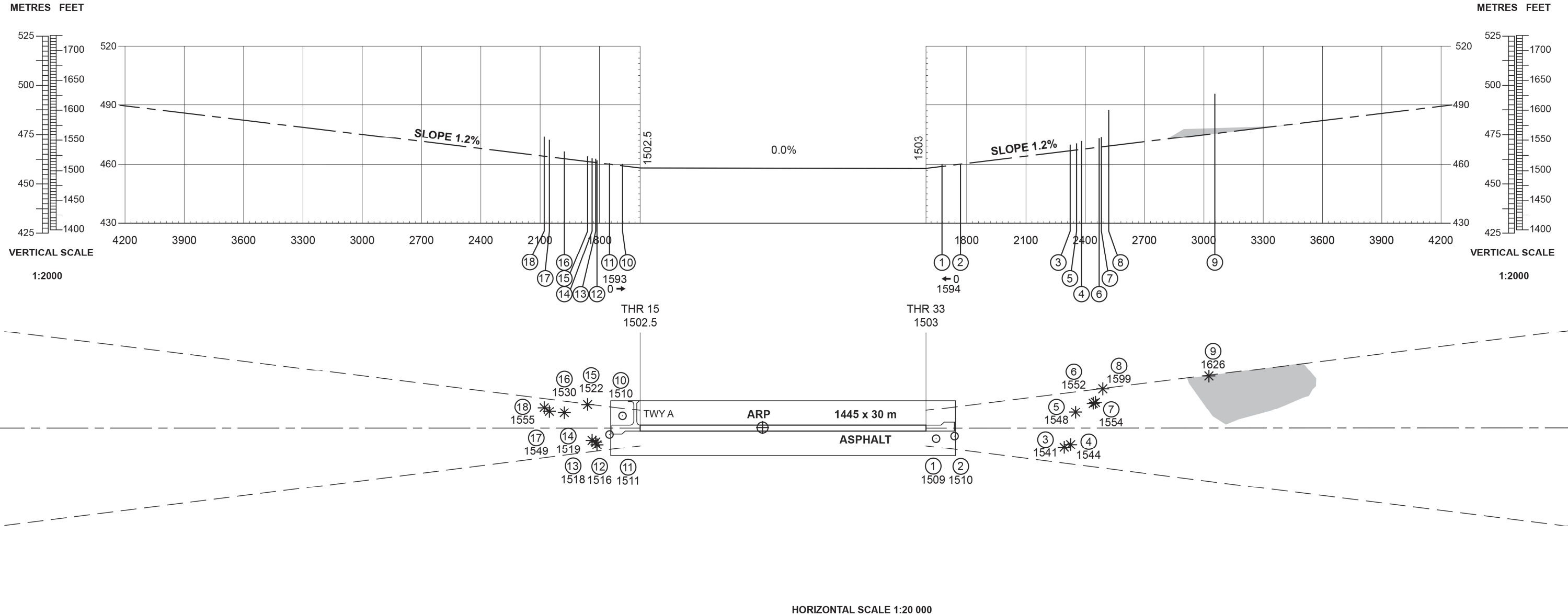
AERODROME CHART - ICAO
HEMAVAN TARNABY
AD 2 ESUT 2-1

AIRAC AMDT 6/2024 28 NOV 2024

AERODROME ELEVATION 1503 FEET
MAGNETIC VARIATION 8° E 2025

RUNWAY BEARINGS
15 = GEO 152.54°; MAG 145°
33 = GEO 332.56°; MAG 325°

RWY 15	DECLARED DISTANCES	RWY 33
1594	TAKE-OFF RUN AVAILABLE	1593
1594	TAKE-OFF DISTANCE AVAILABLE	1593
1594	ACCELERATE STOP DIST. AVAILABLE	1593
1445	LANDING DISTANCE AVAILABLE	1445



LFV	
-----	--

CHANGE: VAR.

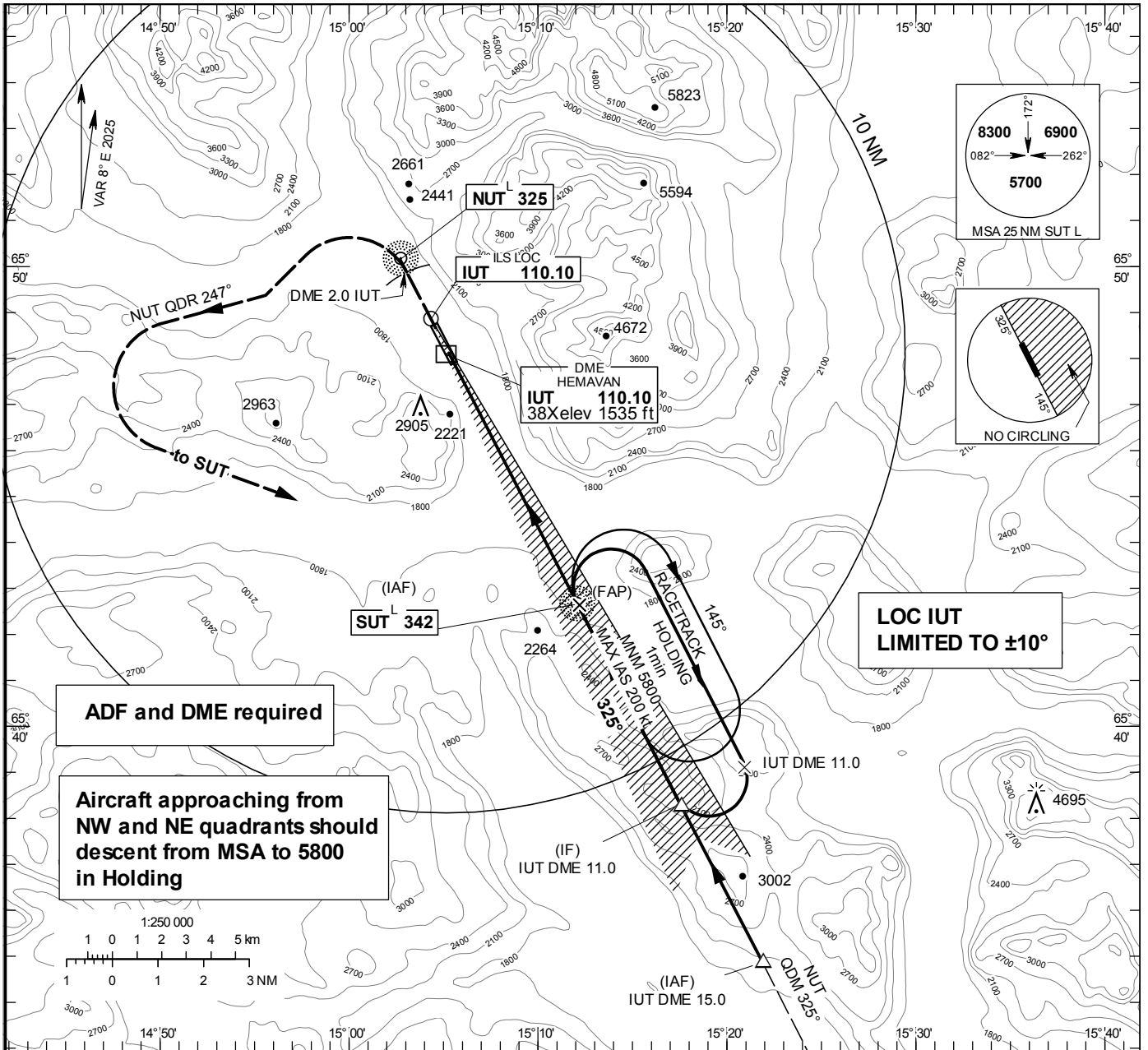
AIRAC AMDT 6/2024

INSTRUMENT APPROACH CHART – ICAO

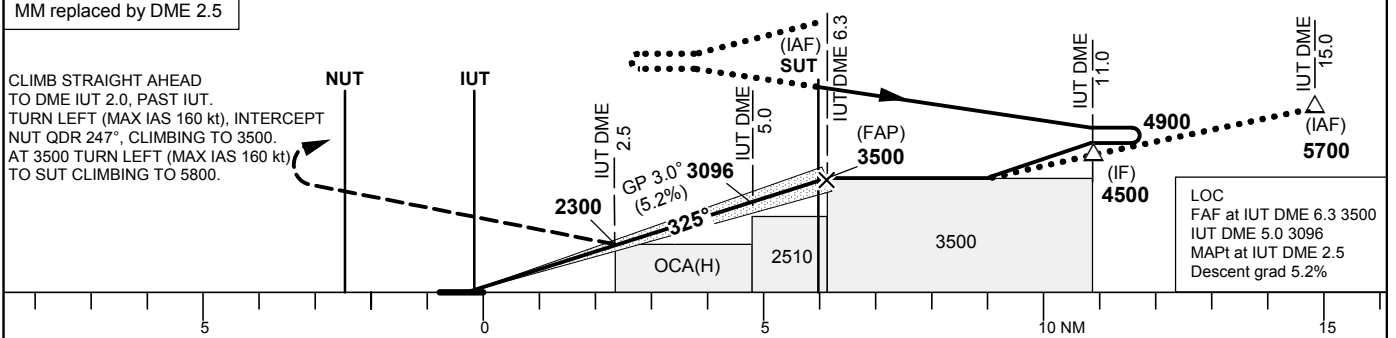
THR ELEV 1502.5 ft, AD ELEV 1503 ft
 OCH are related to THR.
 Circling OCH are related to AD ELEV.
 BRG are MAG
 ALT. HGT and ELEV in ft.

HEMAVAN INFORMATION 122.980

ILS or LOC RWY 33



TA 9000 ft AMSL RDH 53.8 ft Max speed within racetrack 160 kt IAS *Timing not authorized for defining the MAPt
 OM replaced by DME 5.0 MISSED APCH TURN LIMITED TO 110 kt IAS CAT A, 150 kt IAS CAT B, 160 kt CAT C
 MM replaced by DME 2.5



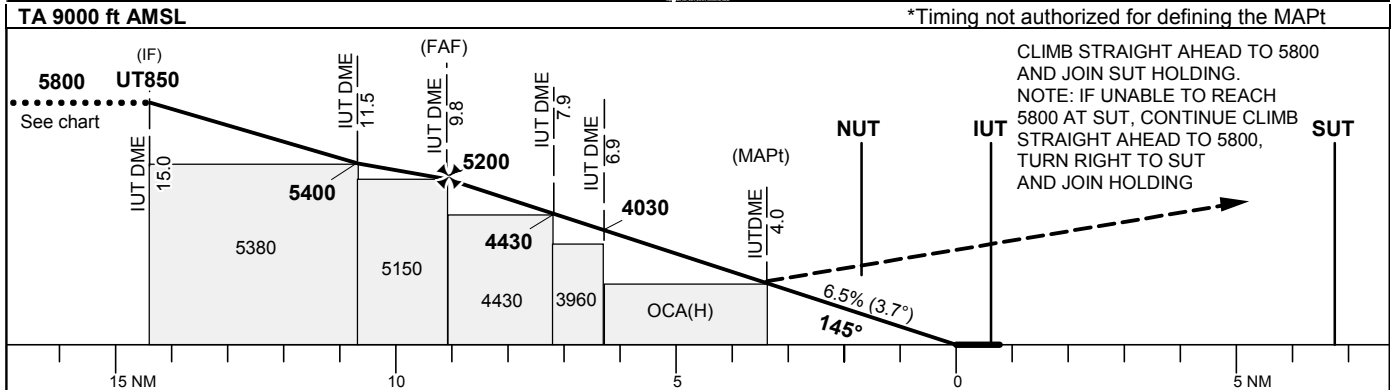
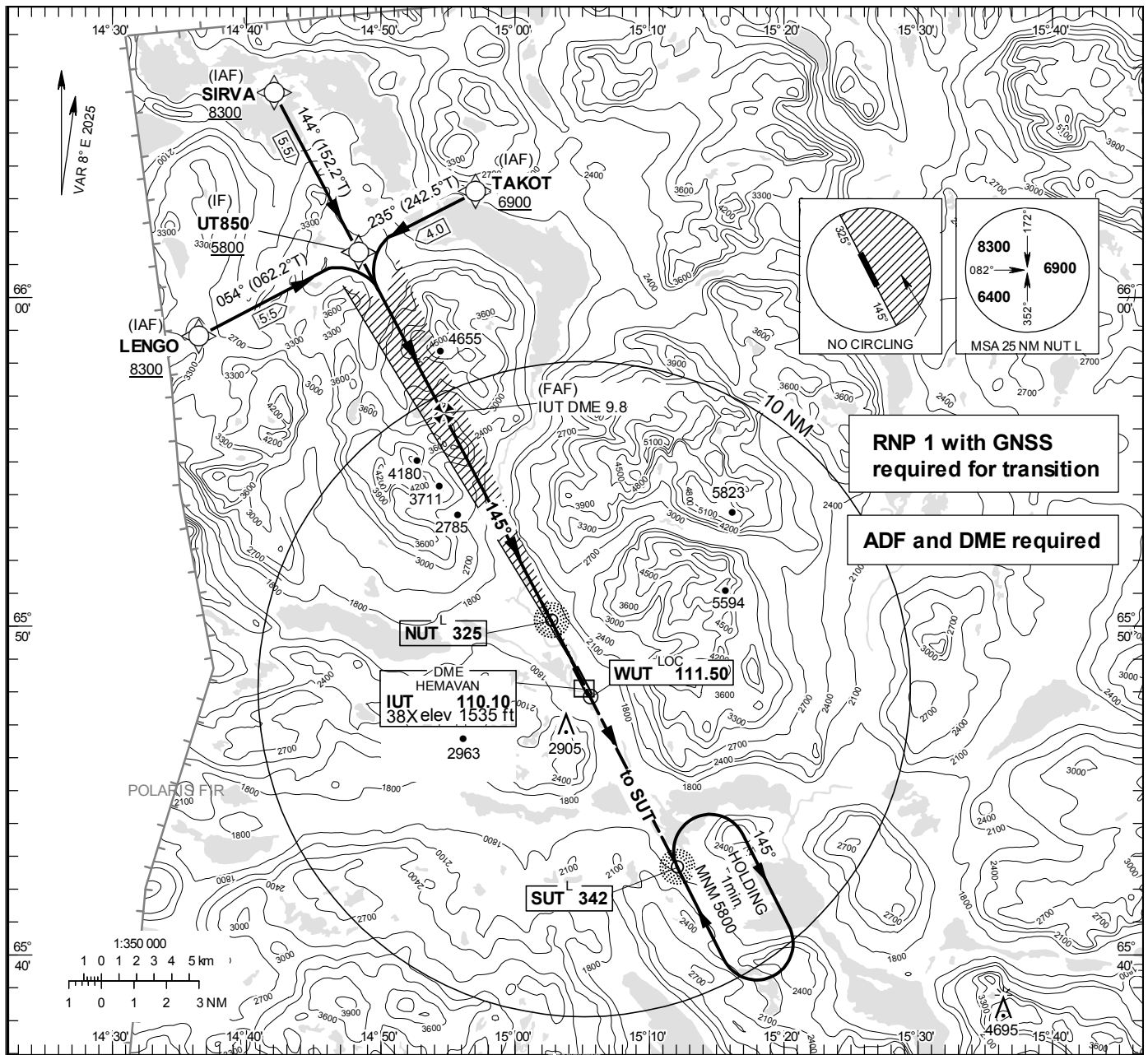
		OCA (H)			Final approach	Distance FAF-MAPt 3.8 NM*					
Cat of ACFT		A	B	C	DME IUT NM	3	4	5	6		
Straight-in Approach	CAT I	Mapch climb grad 2.5%	2068(566)	2192(690)	2200(698)	ALT	2460	2780	3100	3420	
	LOC	Mapch climb grad 3.0%	1985(483)	2096(594)	2103(601)	GS	kt	80	100	120	140
		Mapch climb grad 2.5%	2300(800)	2300(800)	2300(800)	Time	min:s	2:50	2:16	1:53	1:37
Circling SW RWY		3210(1710)	3210(1710)	3360(1860)	Rate of descent	ft/min	425	530	635	745	

LOC RWY 15

HEMAVAN INFORMATION 122.980

THR ELEV 1503 ft, AD ELEV 1503 ft
 OCH are related to THR.
 Circling OCH are related to AD ELEV.
 BRG are MAG
 ALT. HGT and ELEV in ft.

INSTRUMENT
 APPROACH
 CHART – ICAO



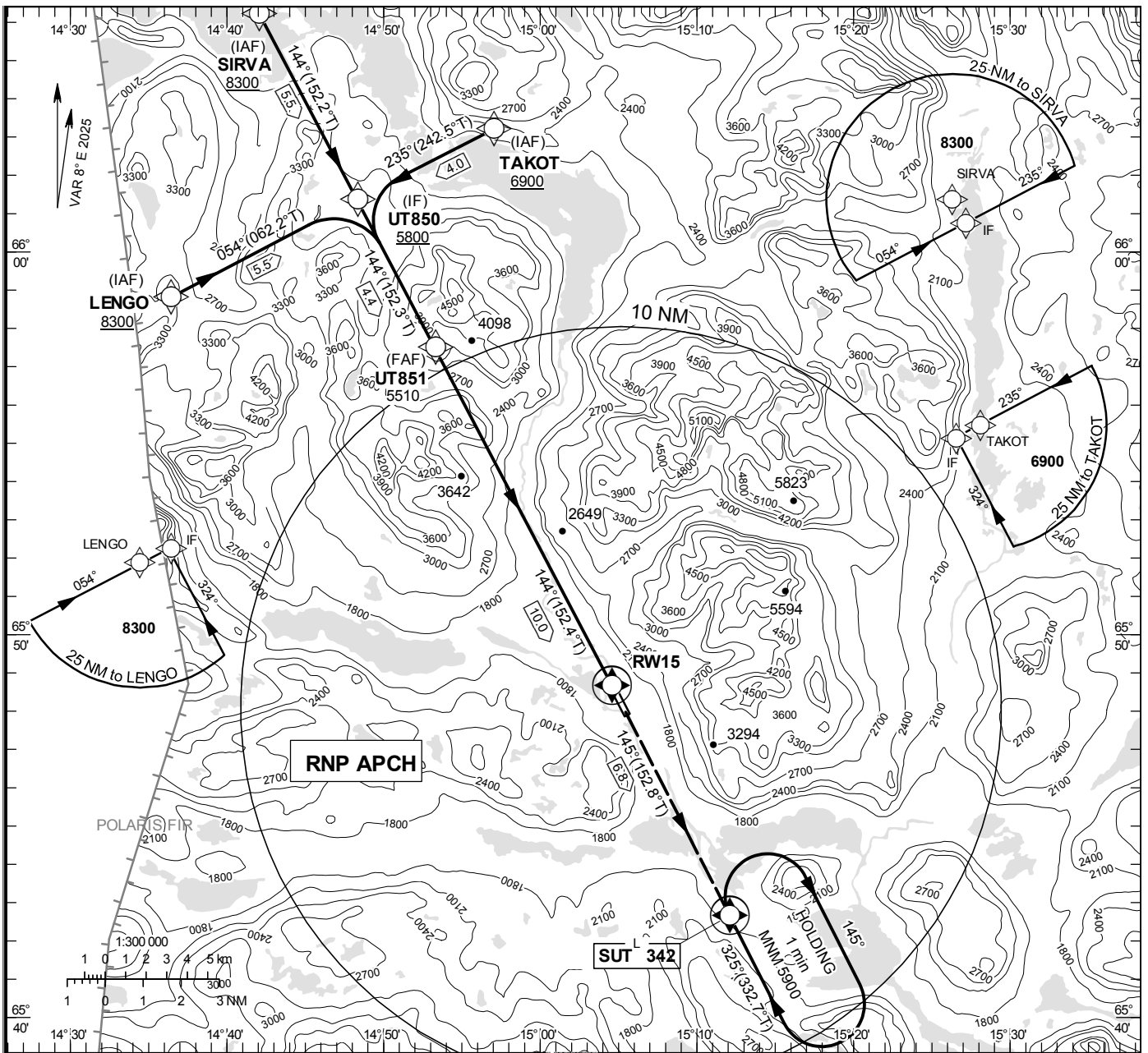
OCA (H)		Final approach					Distance FAF-MAPt 5.8 NM*				
Cat of ACFT	A	B		DME IUT NM	9	8	7	6	5	5	
Straight-in Approach	3040 (1540)				4860	4470	4070	3680	3280		
Circling SW RWY	3210 (1710)		3210 (1710)		GS	kt	80	100	120	140	
					Time	min:s	4:22	3:30	2:55	2:30	
					Rate of descent	ft/min	525	660	790	920	

INSTRUMENT APPROACH CHART – ICAO

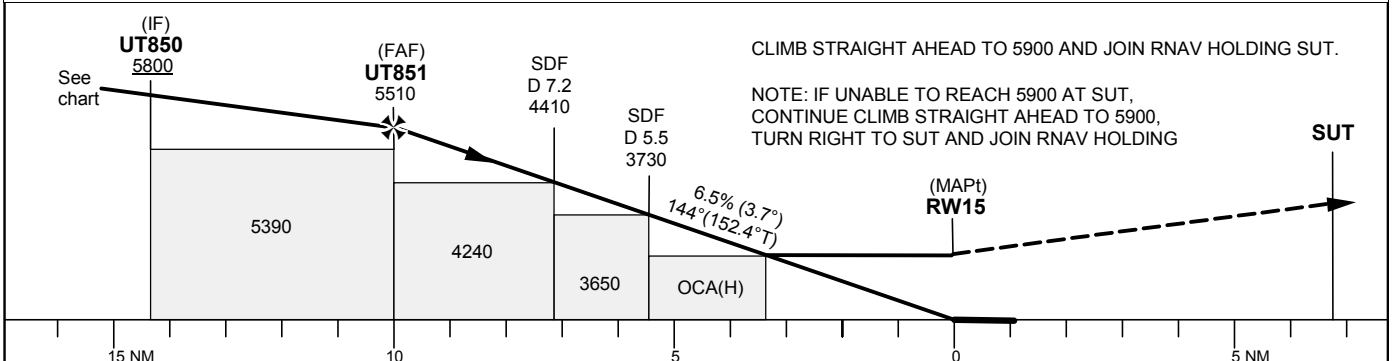
THR ELEV 1503 ft, AD ELEV 1503 ft
 OCH are related to THR.
 BRG are MAG (True).
 ALT, HGT and ELEV in ft.

HEMAVAN INFORMATION 122.980

RNP RWY 15 (LNAV only)



TA 9000 ft AMSL RDH 50 ft



CLIMB STRAIGHT AHEAD TO 5900 AND JOIN RNAV HOLDING SUT.
 NOTE: IF UNABLE TO REACH 5900 AT SUT, CONTINUE CLIMB STRAIGHT AHEAD TO 5900, TURN RIGHT TO SUT AND JOIN RNAV HOLDING

Cat of ACFT	OCA (H)		Distance FAF-MAPt 10.0 NM						
	A	B	9	8	7	6	5	4	
LNAV missed APCH climb grad 2.5%	3080 (1580)		5120	4720	4320	3930	3530	3140	
LNAV missed APCH climb grad 3.0%	3040 (1540)			80	100	120	140		
LNAV missed APCH climb grad 4.0%	2950 (1450)			530	660	790	925		

RNP RWY 15 via SIRVA

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	SIRVA	-	-	-	-	+8300	-	-	-	RNP APCH
TF	UT850	-	144°(152.2°)	5.5	-	+5800	-	-	-	RNP APCH

RNP RWY 15 via TAKOT

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	TAKOT	-	-	-	-	+6900	-	-	-	RNP APCH
TF	UT850	-	235°(242.5°)	4.0	-	+5800	-	-	-	RNP APCH

RNP RWY 15 via LENGO

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	LENGO	-	-	-	-	+8300	-	-	-	RNP APCH
TF	UT850	-	054°(062.2°)	5.5	-	+5800	-	-	-	RNP APCH

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	UT850	-	-	-	-	+5800	-	-	-	RNP APCH
TF	UT851	-	144°(152.3°)	4.4	-	@5510	-	-	-	RNP APCH
TF	RW15	Y	144°(152.4°)	10.0	-	@1553	-	-	-	RNP APCH
TF	SUT	Y	145°(152.8°)	-	-	-	-	-	-	RNP APCH
HM	SUT	Y	325°(332.7°)	-	R	+5900	-	-	-	RNAV 1

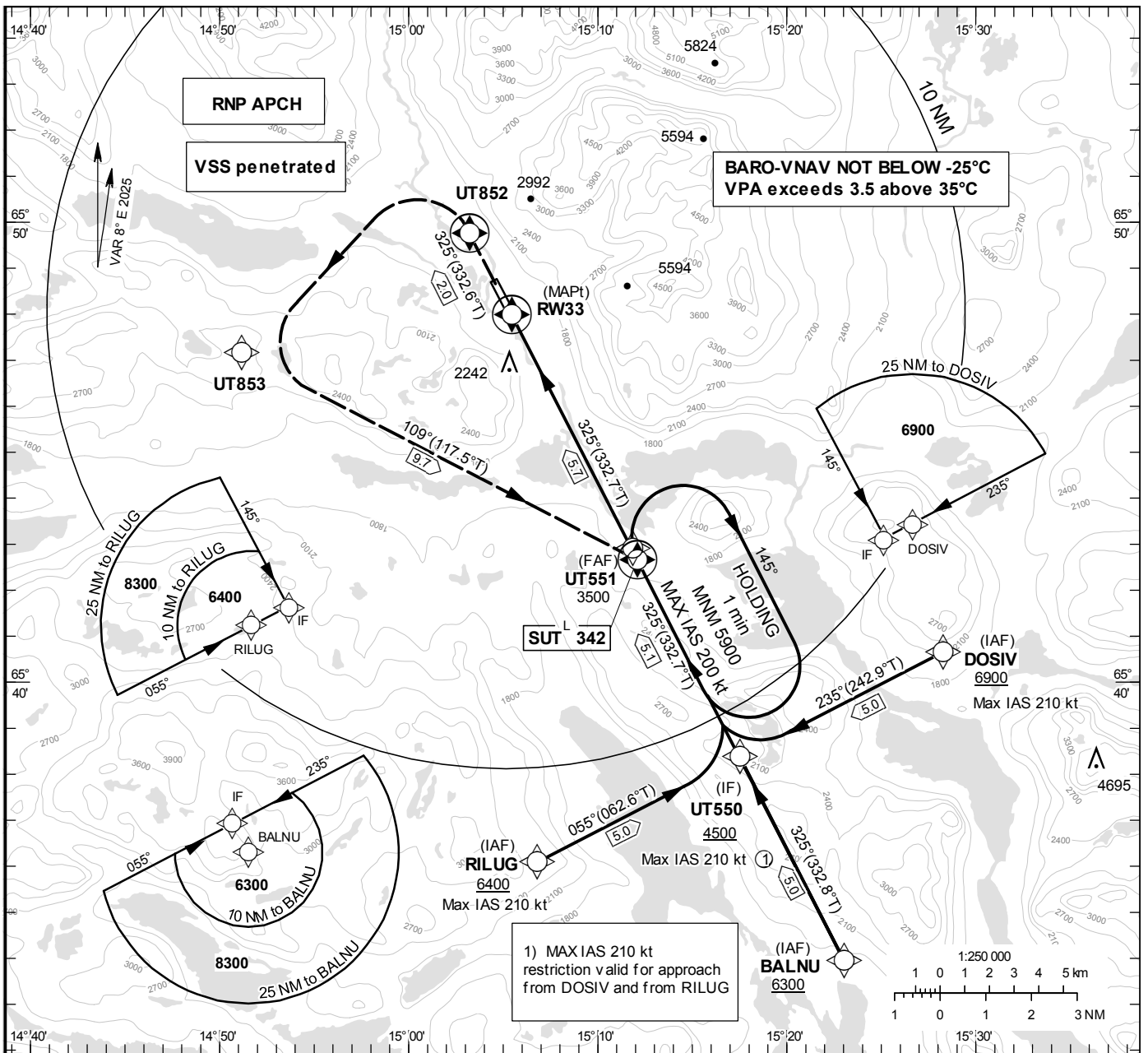
INSTRUMENT APPROACH CHART – ICAO

THR ELEV 1502.5 ft, AD ELEV 1503 ft
OCH are related to THR.
BRG are MAG (True).
ALT, HGT and ELEV in ft.

HEMAVAN INFORMATION 122.980

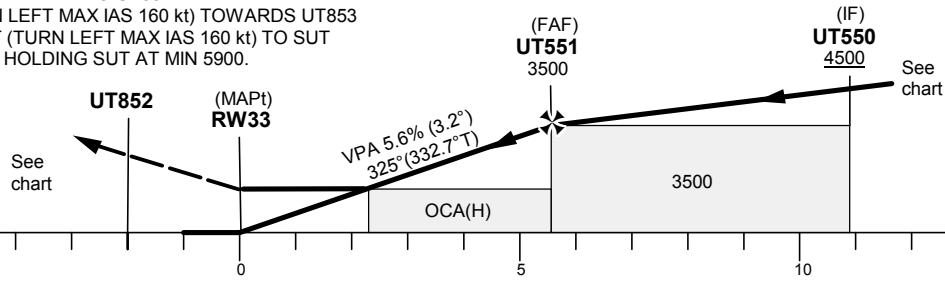
RNP RWY 33

EGNOS Ch 55015 E33A



TA 9000 ft AMSL RDH 50 ft

CLIMB STRAIGHT AHEAD TO UT852.
AT UT852 (TURN LEFT MAX IAS 160 kt) TOWARDS UT853
AND TURN LEFT (TURN LEFT MAX IAS 160 kt) TO SUT
AND JOIN RNAV HOLDING SUT AT MIN 5900.



Cat of ACFT	OCA (H)			Final approach Dist to RW 33	Distance FAF-MAPt 5.7 NM					
	A	B	C		4	5	6	7	8	
LPV	2372 (870)	2384 (882)	2392 (890)	ALT	2910				3250	
LNAV/VNAV	2480 (978)	2498 (996)	2526 (1024)	GS	80	100	120	140	160	
LNAV	2850 (1350)			Rate of descent	ft/min	455	565	680	795	905

RNP RWY 33 via BALNU

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	BALNU	-	-	-	-	+6300	-	-	-	RNP APCH
TF	UT550	-	325°(332.8°)	5.0	-	+4500	-	-	-	RNP APCH

RNP RWY 33 via DOSIV

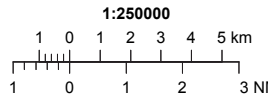
Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	DOSIV	-	-	-	-	+6900	-210	-	-	RNP APCH
TF	UT550	-	235°(242.9°)	5.0	-	+4500	-210	-	-	RNP APCH

RNP RWY 33 via RILUG

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	RILUG	-	-	-	-	+6400	-210	-	-	RNP APCH
TF	UT550	-	055°(062.6°)	5.0	-	+4500	-210	-	-	RNP APCH

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	UT550	-	-	-	-	+4500	-	-	-	RNP APCH
TF	UT551	-	325°(332.7°)	5.1	-	@3500	-	-	-	RNP APCH
TF	RW33	Y	325°(332.7°)	5.7	-	@1553	-	-3.2/50	-	RNP APCH
TF	UT852	Y	325°(332.6°)	2.0	-	-	-160	-	-	RNP APCH
DF	UT853	-	-	-	L	-	-160	-	-	RNP APCH
TF	SUT	Y	109°(117.5°)	9.7	L	+5900	-	-	-	RNP APCH
HM	SUT	Y	325°(332.7°)	-	R	+5900	-200	-	-	RNAV 1

VISUAL APPROACH CHART - ICAO



AD ELEV 1503 FEET

ELEV and ALT in ft
HGT in ft above AD ELEV

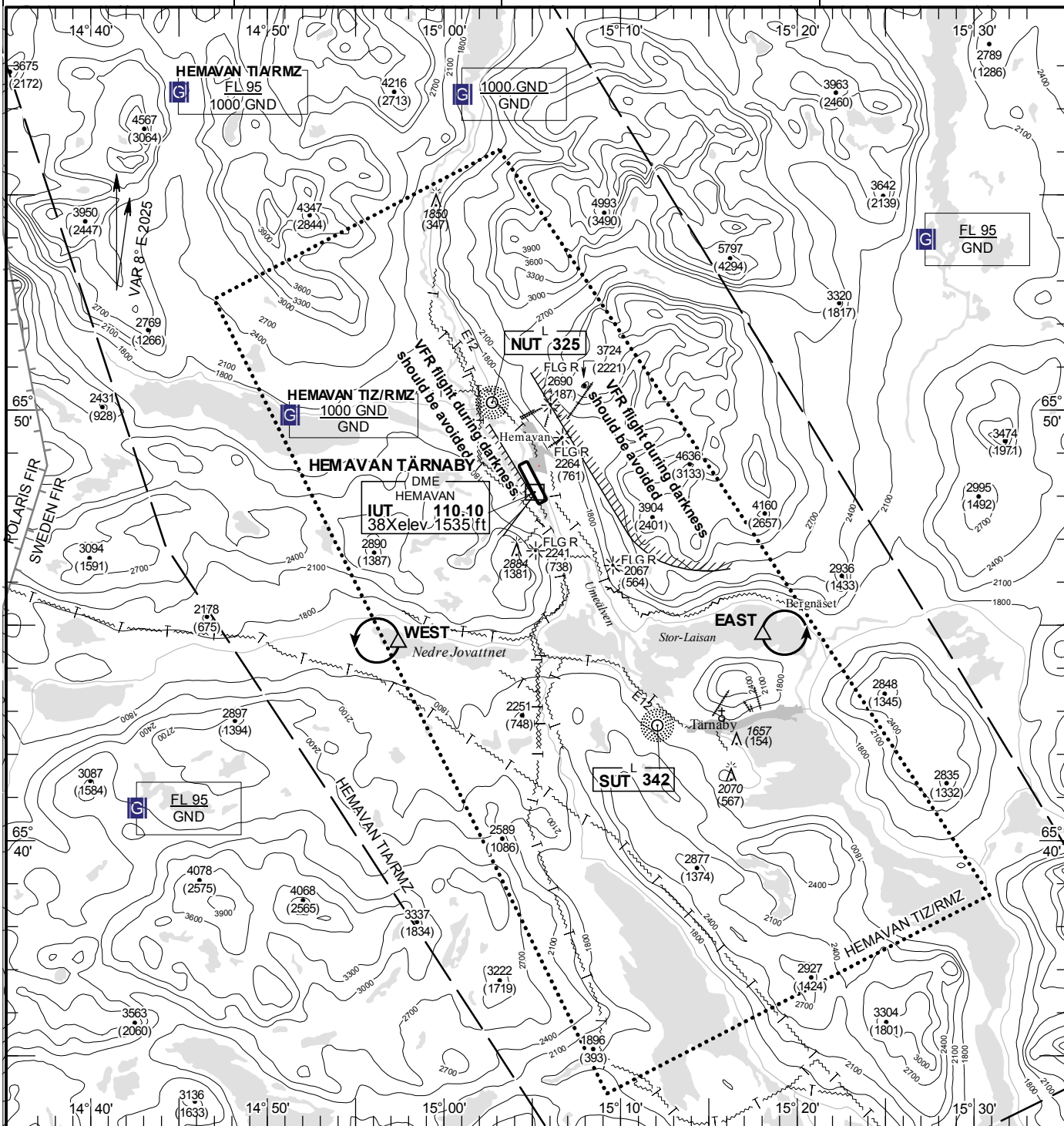
TA 9000 AMSL

HEMAVAN INFORMATION

122.980

AD 2 ESUT 6-1

HEMAVAN TÄRNABY SWEDEN



Communication failure

NIL

Warning

Heavy turbulence and down draft may occur in the vicinity of the AD when wind is above 20 kt in all directions.

RWY NR	THR ELEV	PAPI (MEHT)
15	1503 ft	Left/3.50° (40 ft)
33	1502.5 ft	Left/3.00° (26 ft)

Legend
See GEN 2.3

Entry / exit point

NIL

Holding

EAST: Hold at the peninsula Bergnäset in lake Stor-Laisan, east of point 654446N 0151803E

WEST: Hold at western part of Nedre Jovattnet, west of point 654435N 0145724E

AD 2 AERODROMES

ESGJ 2.1 AERODROME LOCATION INDICATOR AND NAME

ESGJ – JÖNKÖPING

ESGJ 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

- | | | |
|----|--|---|
| 1. | ARP coordinates and site at AD | 574530N 0140409E RWY 1200 m from THR 01 |
| 2. | Direction and distance from (city) | WSW 3.5 NM from Jönköping |
| 3. | Elevation/Reference temperature | 742 ft/+21.6°C |
| 4. | Geoid undulation at AD ELEV PSN | 108 ft |
| 5. | MAG VAR/Annual change | 7° E 2025/+0.2 increasing |
| 6. | Administration, address, telephone, fax, AFS | Jönköping Airport AB
Jönköping flygplats
SE-555 93 Jönköping
TEL: +46 (0)36 31 12 00
E-mail: info@jonkopingairport.se
AFS: ESGJZTZX
Website: www.jonkopingairport.se |
| 7. | Types of traffic permitted (IFR/VFR) | IFR/VFR. Max RWY ref code 4E |
| 8. | Remarks | PPR outside TWR HR of OPS.
PPR for commercial traffic and aircraft exceeding MTOM 4000 kg.
Requests shall be made during hours of AD administration to:
groundhandling@jonkopingairport.se or TEL: +46 (0)36 31 12 11. |

ESGJ 2.3 OPERATIONAL HOURS

- | | | |
|-----|---|--|
| 1. | AD Administration
AD Operating hours | MON-FRI 0730-1530 (0630-1430)
Ref AIP SUP/NOTAM |
| 2. | Customs and immigration | O/R Customs TEL +46 (0)31 63 38 00, Immigration
TEL +46 (0)10 569 42 37. |
| 3. | Health and sanitation | As AD operating hours, Designated quarantine AD |
| 4. | AIS Briefing Office | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 5. | ATS Reporting Office (ARO) | As ATS |
| 6. | MET Briefing Office | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 7. | ATS | Ref AIP SUP/NOTAM |
| 8. | Fuelling | As AD operating hours |
| 9. | Handling | As AD operating hours |
| 10. | Security | As AD operating hours |
| 11. | De-Icing | As AD operating hours |
| 12. | Remarks | Increased charges outside AD operating hours. Extended operational
hours occurs frequently. |

ESGJ 2.4 HANDLING SERVICES AND FACILITIES

1.	Cargo-handling facilities	All types available
2.	Fuel/oil types	Fuel Jet A1, 100LL Oil -
3.	Fuelling facilities/discharge capacity	Jet A1: 40,000l fuel truck/150,000l stationary 100LL: 20,000l
4.	De-icing facilities	Type I and II mobile unit
5.	Hangar space for visiting ACFT	Limited, Heated, O/R: groundhandling@jonkopingairport.se or TEL +46 (0)36 31 12 11
6.	Repair facilities for visiting ACFT	Limited, O/R: groundhandling@jonkopingairport.se or TEL +46 (0)36 31 12 11
7.	Remarks	For payment of fuel AIR BP, VISA, Mastercard and American Express accepted.

ESGJ 2.5 PASSENGER FACILITIES

1.	Hotels	In Jönköping
2.	Restaurants	At AD
3.	Transportation	Buses, taxi, rental cars
4.	Medical facilities	In Jönköping
5.	Bank and Post Office	In Jönköping
6.	Tourist Office	In Jönköping
7.	Remarks	Conference facilities at AD

ESGJ 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	CAT 7. Up to CAT 9 available. RFFS level corresponds to the current aircraft specification.
2.	Rescue equipment	3 RFFS trucks, Commander vehicle, Terrain vehicle, Decontamination equipment.
3.	Capability for removal of disabled aircraft	On site towing capability code C A/C, lifting capability code A A/C. Other by arrangement.
4.	Remarks	RFFS for non-commercial operations and specialized operations only available on request during AD OP HR. 15 min PN for NON-SKED Commercial Air Transport Operations TFC.

ESGJ 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	Snowploughs, blowers, sweepers, slingers, spreaders
2.	Clearance priorities	RWY, TWY, Apron
3.	Remarks	RWY, TWY and Apron de-iced with NAFO/UREA/SAND/FROZEN SAND RWY 11/29 closed between oct 1 - apr 30

In Area 3					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
Not available					

ESGJ 2.11 METEOROLOGICAL INFORMATION PROVIDED

- | | |
|--|--|
| 1. Associated MET Office | STOCKHOLM/Arlanda |
| 2. Hours of service
MET Office outside hours | H24 |
| 3. Office responsible for TAF preparation
Periods of validity, interval of issuance | STOCKHOLM/Arlanda
9 HR, https://tafplanner.smhi.se/app.php/production-program |
| 4. Type of landing forecast
Interval of issuance | Not issued |
| 5. Briefing/consultation provided | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 6. Flight documentation
Language(s) used | TAF, METAR, SIGMET, Upper air winds
Swedish/English |
| 7. Charts and other information available for briefing or consultation | SWC, WC, Nordic SIGWX Chart, Low level forecast |
| 8. Supplementary equipment available for providing information | - |
| 9. ATS units provided with information | JÖNKÖPING TWR |
| 10. Additional information (limitation of service, etc.) | Flight planning room available. |

ESGJ 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	True BRG and MAG BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APCH RWY
1	2	3	4	5	6
01	018.07° GEO 011° MAG	2203 x 45	PCN 55 F/B/X/T ASPH	574453.48N 0140346.76E GUND 108.0 ft	THR 734.3 ft TDZ 739.0 ft
19	198.08° GEO 191° MAG	2203 x 45	PCN 55 F/B/X/T ASPH	574601.19N 0140428.09E GUND 107.8 ft	THR 739.1 ft TDZ 741.3 ft
11	113.91° GEO 107° MAG	525 x 25	PCN - GRASS	574513.16N 0140405.11E GUND 108 ft	THR 737 ft
29	293.91° GEO 287° MAG	525 x 25	PCN - GRASS	574506.29N 0140434.11E GUND 108 ft	THR 738 ft

Designations RWY NR	Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	RESA dimensions (m)
1	7	8	9	10	11
01	See ESGJ AOC	-	450 x 180	2380 x 280	400 x 180
19	See ESGJ AOC	-	190 x 180	2380 x 280	120 x 180
11	-	-	-	585 x 60	-
29	-	-	-	585 x 60	-

Designations RWY NR	Location/ description of arresting system	OFZ (Yes/No)	Remarks
1	12	13	14
01	-	No	-
19	-	No	-
11	-	No	-
29	-	No	-

ESGJ 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
01	2203	2653	2203	2203	Intermediate distances, see ESGJ AOC
19	2203	2393	2203	2203	-
11	525	525	525	525	-
29	525	525	525	525	-

Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
LOC 01 ILS CAT I (7° E 2025)	SGJ	111.50 MHz	H24 *	574607.3N 0140431.8E		199 m beyond THR 19 ILS Class I/E/2
GP		332.90 MHz	H24 *	574504.4N 0140346.7E		Angle 3.0° RDH 56.0 ft 320 m past THR 01 left side
L 01	OJ	403 kHz	H24 *	574147.0N 0140152.2E		Range 25 NM
LOC 19 ILS CAT I (7° E 2025)	SJ	109.90 MHz	H24 *	574442.8N 0140340.2E		349 m beyond THR 01 ILS Class I/E/2
GP		333.80 MHz	H24 *	574552.6N 0140414.8E		Angle 3.0° RDH 50.9 ft 322 m past THR 19 right side
OM				574937.6N 0140644.4E		-
MM				574633.3N 0140447.6E		-
L 19	OA	338 kHz	H24 *	574937.4N 0140644.4E		Range 25 NM
DVOR/DME (7° E 2025)	JON	115.80 MHz	H24 *	574537.6N 0140355.5E	782 ft	DME channel 105X
DME	SGJ	111.50 MHz	H24 *	574504.4N 0140346.4E	762 ft	319 m past THR 01 DME channel 52X

* Monitoring of signal in space limited to ATS HR of OPS

ESGJ 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. Utanför ATS öppethållning ska flygning i trafikvarvet i samband med upprepade start- och landningsövningar RWY 01/19 och RWY 11/29 utföras väster och söder om respektive bana.

2. Övrig flygplatstrafik

För övrig flygplatstrafik, normala in- och utflygningar, start och landning, som inte medför upprepade trafikvarv, ska normala trafikrutiner följas enligt SERA.3225.

Utanför ATS öppethållning är blindsändning obligatoriskt inom det geografiska området för upprättad ESGJ CTR.

3. Vid landning enligt VFR utanför ATS öppethållning ska avsikt att landa samt ETA tydligt aviseras på kanal 118.255 och banan ska korsas på minst 1000 ft AGL för att säkerställa fri tillgänglighet samt att uppmärksamma eventuell flygplatspersonal och annan trafik på banan. Är banan inte är tillgänglig i sin fulla längd och bredd ska inte landning genomföras.

4. Vid start utanför ATS öppethållning ska avsikt att starta tydligt aviseras på kanal 118.255. Är banan inte tillgänglig i sin fulla längd och bredd ska inte start genomföras.

LOCAL TRAFFIC REGULATIONS

1. Outside ATS hours of operation, flights in the traffic circuit including repeated take-off and landing exercises RWY 01/19 and RWY 11/29 shall be carried out west and south of respective runway.

2. Other aerodrome traffic

For other aerodrome traffic, normal arrivals and departures, take-off and landing, which not involve flying in the traffic circuit or repeated take-offs and landings, normal traffic procedures must be followed in accordance with SERA.3225.

Outside ATS hours of operations, blind transmission is mandatory within the geographical area when ESGJ CTR is established.

3. For VFR landing outside ATS hours of operation the intention to land and ETA shall be clearly declared on channel 118.255 followed by crossing the runway at least 1000 ft AGL in order to verify runway availability and alerting any AD personnel and other traffic on the runway. If the runway is not available in its full length and width, the landing shall not be carried out.

4. For take-off outside ATS hours of operation the intention to take-off shall clearly be declared on channel 118.255. If the runway is not available in its full length and width, the take-off shall not be carried out.

5. Fordonstrafik kan förekomma på manöverområdet utanför ATS öppethållning.

5. Vehicle traffic may occur in the manoeuvring area outside ATS opening hours.

ESGJ 2.21 MINSKNING AV BULLERSTÖRNING

1. Flygplatsföreskrifter

Flygning som inte följer SID
För propellerdrivet flygplan med MTOM överstigande 5700 kg samt för samtliga jetflygplan gäller;
a) högersväng efter start RWY 01 får inte påbörjas före passage av L OA eller
b) vänstersväng efter start RWY 19 får inte påbörjas före passage av L OJ.

Då förhållandena så medger bör reversering utöver «Idle Reverse» eller motsvarande ej användas under tiden 2100-0600 (2000-0500).

APU skall inte användas vid parkering vid andra tillfällen än då så krävs för motorstart eller för reglering av kabintemperatur. Start av APU måste alltid meddelas till ramhandlingpersonal.

2. Skol och övningsflygning

Skolflyg med helikopter är inte tillåtet.

Upprepade inflygningar och/eller start och landningar är ej tillåtet under tiden 2100-0600 (2000-0500).

3. Över tätbebyggt område

Över de centrala delarna av Jönköping och Huskvarna bör luftfartyg inte framföras på lägre höjd än 2000 ft AMSL utom då så är nödvändigt i samband med start och landning.

Angivna flygvägar för ankommande och avgående trafik har upprättats även för att minska bullerstörningar. Luftfartyg skall noggrant följa i klareringen angiven flygväg samt i övrigt framföras så att onödiga bullerstörningar inte förorsakas.

NOISE ABATEMENT PROCEDURES

1. Aerodrome regulations

Aircraft not following SID
For propeller driven aircraft with MTOM exceeding 5700 kg and for all jet aircraft the following applies;
a) after take-off RWY 01 right hand turn must not be initiated until passing L OA or
b) after take-off RWY 19 left hand turn must not be initiated until passing L OJ.

When conditions permit more than «Idle Reverse» or equivalent shall not be used between 2100-0600 (2000-0500).

APU shall not be used on parking unless required for engine start or adjustment of cabin heat. Start of APU must always be reported to ramp handling staff.

2. School and training flights

Helicopter school flights are not permitted.

Repeated approaches and/or take-off and landings are not permitted between 2100-0600 (2000-0500).

3. Over built up areas

Over the central parts of Jönköping and Huskvarna aircraft should not be operated below 2000 ft AMSL except when necessary for take-off or landing.

The routes for inbound and outbound traffic have been established also for noise abatement purposes. Aircraft shall strictly adhere to assigned route and be operated in such a manner that unnecessary noise disturbances are not caused

ESGJ 2.22 FLYGPROCEDURER

1. Ankommande IFR-trafik inom Jönköping TMA/CTR

Flygvägar är upprättade enligt sid ESGJ 4-9 till ESGJ 4-16.

Väntlägen (Ref ENR 1.3 mom 9)
Väntlägen är upprättade enligt sid ESGJ 4-1.

Visuellinflygning
Luftfartyg skall bibehålla 2500 ft till final.

2. Avgående IFR-trafik inom Jönköping TMA/CTR

Flygvägar
Flygvägar är upprättade enligt sid ESGJ 4-5 till ESGJ 4-16.

3. Startprocedurer, omnidirectional

FLIGHT PROCEDURES

1. Inbound IFR traffic within Jönköping TMA/CTR.

Routes established in accordance with pages ESGJ 4-9 through ESGJ 4-16.

Holdings (Ref ENR 1.3 para 9)
Holding patterns are established in accordance with page ESGJ 4-1.

Visual approach
Aircraft shall maintain 2500 ft until on final approach.

2. Outbound IFR traffic within Jönköping TMA/CTR.

Routes
Established in accordance with pages ESGJ 4-5 through ESGJ 4-16.

3. Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
01	Climb straight ahead to MNM turning ALT 1200 ft AMSL. Continue climb to appropriate MSA.	Tree (CIO) CIO exist	789	022°/2915
19	Climb straight ahead to MNM turning ALT 1300 ft AMSL. Continue climb to appropriate MSA.	Tree CIO exist	1202	172°/7296

4. Avbrott i radioförbindelse

Luffartyg skall följa de föreskrifter som anges i ENR 1.3 mom 10. Under IMC gäller dessutom följande.

4.1 Ankommande klarering mottagen och kvitterad

Normalt är gällande bana gräns för den av ACC meddelade ankommande klareringen. Härvid skall luftfartyget med bibehållande av senast tilldelad och kvitterad flyghöjd följa angiven flygväg till OA L (RWY 19) eller OJ L (RWY 01).

Om gränsen för den av ACC meddelade ankommande klareringen är annan än gällande bana skall luftfartyget med bibehållande av senast tilldelad och kvitterad flyghöjd följa angiven flygväg till denna gräns och därifrån flyga direct till OA L eller OJ L. Har beräknad tidpunkt för inflygning mottagits och kvitterats skall angiven nedgång påbörjas först vid denna tidpunkt.

Efter ankomst över OA L eller OJ L skall erforderlig nedgång utföras i väntläge OSCAR ALFA eller OSCAR JULIET varefter normal instrumentinflygning skall utföras.

4.2 Ankommande klarering ej mottagen och/eller kvitterad

Luffartyget skall med bibehållande av senast tilldelad och kvitterad flyghöjd flyga via aktuell inpasseringspunkt i TMA direkt till L OA. I väntläge OSCAR ALFA (se ESGJ-5-1 till ESGJ-5-4) skall nedgång utföras till 2800 ft AMSL varefter normal instrumentinflygning till RWY 01 eller RWY 19 skall utföras.

5. Lågsiktsprocedurer (LVP) etablerade.

LVP träder i kraft när bansynvidden (RVR) är lägre än 550 m eller när molntäckeshöjden eller vertikalsikten är lägre än 200 ft.

Meddelande om att LVP är i kraft lämnas via ATS.

När LVP tillämpas tillåts endast ett luftfartyg alternativt endast fordon på manöverområdet.

6. VFR-flygning inom Jönköping TMA/CTR.

6.1 Trafikvarvshöjd

Lägsta höjd i trafikvarv är 500 ft GND med undantag väster om RWY 01/19 under perioden 1 MAR-30 SEP då lägsta höjd är 700 ft GND.

6.2 Normala in- och utpasseringspunkter

Se ESGJ 6-1

6.3 Väntlägen

Se ESGJ 6-1

4. Communication failure

Aircraft shall adhere to the procedures stipulated in ENR 1.3 para 10. In addition, in IMC the relevant procedures below shall be applied.

4.1 Inbound clearance received and acknowledged

Clearance limit for the inbound clearance issued by ACC is normally the runway-in-use. When this is the case the aircraft shall, maintaining the level last received and acknowledged, fly the specified route to OA L (RWY 19) or OJ L (RWY 01).

If the clearance limit for the inbound clearance issued by ACC is another than the runway-in-use the aircraft shall, maintaining the level last received and acknowledged, fly the specified route to this limit and then proceed direct to OA L or OJ L. If an expected approach time has been received and acknowledged the descent specified shall not be commenced until that time.

After arrival over OA L or OJ L descent, if required, shall be made in OSCAR ALFA or OSCAR JULIET holding pattern. Thereafter a normal instrument approach shall be carried out.

4.2 No inbound clearance received and/or acknowledged

The aircraft shall maintaining the level last received and acknowledged fly via the relevant TMA entry point direct to L OA. In the holding pattern OSCAR ALFA (see ESGJ-5-1 through ESGJ-5-4) descent to 2800 ft AMSL shall be made. Thereafter a normal instrument approach to RWY 01 or RWY 19 shall be carried out.

5. Low visibility procedures (LVP) are established.

LVP will be in force when RVR is below 550 m or ceiling or vertical visibility is below 200 ft.

The application of LVP will be announced by ATS.

When LVP is applied only one aircraft or vehicles are allowed in the manoeuvring area.

6. VFR flight within Jönköping TMA/CTR.

6.1 Traffic circuit altitude

Minimum altitude in traffic circuit is 500 ft GND except west of RWY 01/19 during the period 1 MAR-30 SEP when minimum altitude is 700 ft GND.

6.2 Normal entry and exit points

See ESGJ 6-1

6.3 Holdings

See ESGJ 6-1

6.4 Avbrott i radioförbindelse

Se ESGJ 6-1

6.4 Communication failure

See ESGJ 6-1

ESGJ 2.23 ÖVRIG INFORMATION

Reducerad separation tillämpas för luftfartyg med MTOM 2000 kg eller lägre (Kategori 1) enligt AIP AD 1.1 mom 10.

Instrumentflygningsprocedureerna får inte användas för att landa utanför ATS öppethållning.

ADDITIONAL INFORMATION

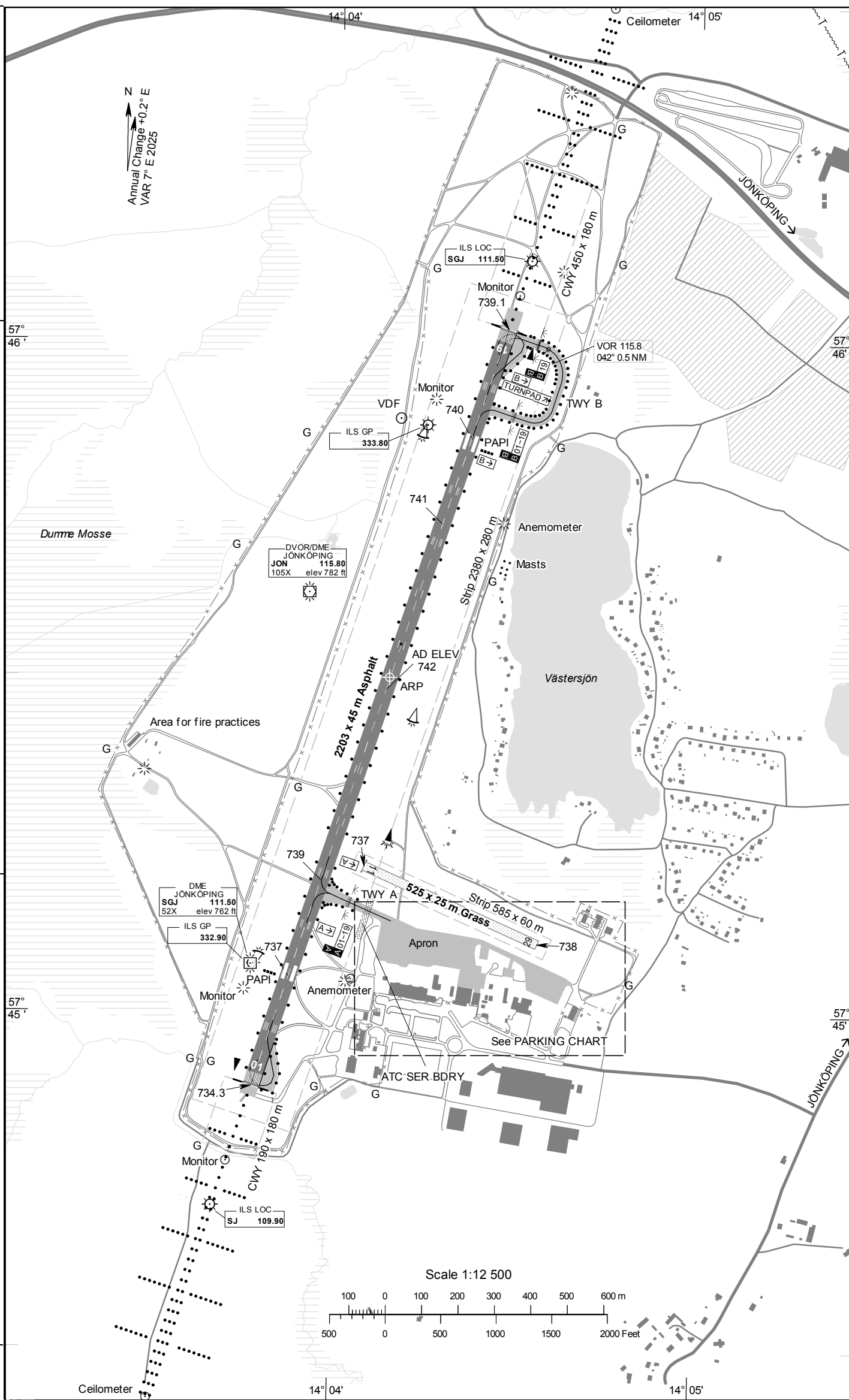
Reduced separation is applied to aircraft with MTOM 2000 kg or lower (Category 1) in accordance with AIP AD 1.1 para 10.

Prohibited to use instrument approach procedures for landing outside ATS HR of OPS.

ESGJ 2.24 TILLHÖRANDE KARTOR

AD chart		ESGJ 2-1
AOC	RWY 01/19	ESGJ-3-1
Area chart	(TMA)	ESGJ 4-1
List of waypoints and significant points		ESGJ 4-3
RNAV (GNSS) SID	RWY 01	ESGJ 4-5
RNAV (GNSS) SID	RWY 19	ESGJ 4-7
RNAV (GNSS) STAR	RWY 01	ESGJ 4-9
RNAV (GNSS) STAR	RWY 19	ESGJ 4-11
SID	RWY 01 BENGI 5B, NEGAS 6B, DEVNI 6B	ESGJ 4-13
SID	RWY 19 BENGI 5C, DEVNI 7C, NEGAS 6C	ESGJ 4-15
STAR	RWY 01 DEVNI 6E, NEGAS 6E	ESGJ 4-17
STAR	RWY 19 DEVNI 6F, NEGAS 6F	ESGJ 4-19
ATC Surveillance Minimum ALT chart		ESGJ 4-91
IAC	ILS or LOC RWY 01	ESGJ 5-1
IAC	NDB RWY 01	ESGJ 5-2
IAC	ILS or LOC RWY 19	ESGJ 5-3
IAC	NDB RWY 19	ESGJ 5-4
IAC	RNP RWY 01	ESGJ 5-5
IAC	RNP RWY 19	ESGJ 5-9
VAC		ESGJ 6-1

RELATED CHARTS



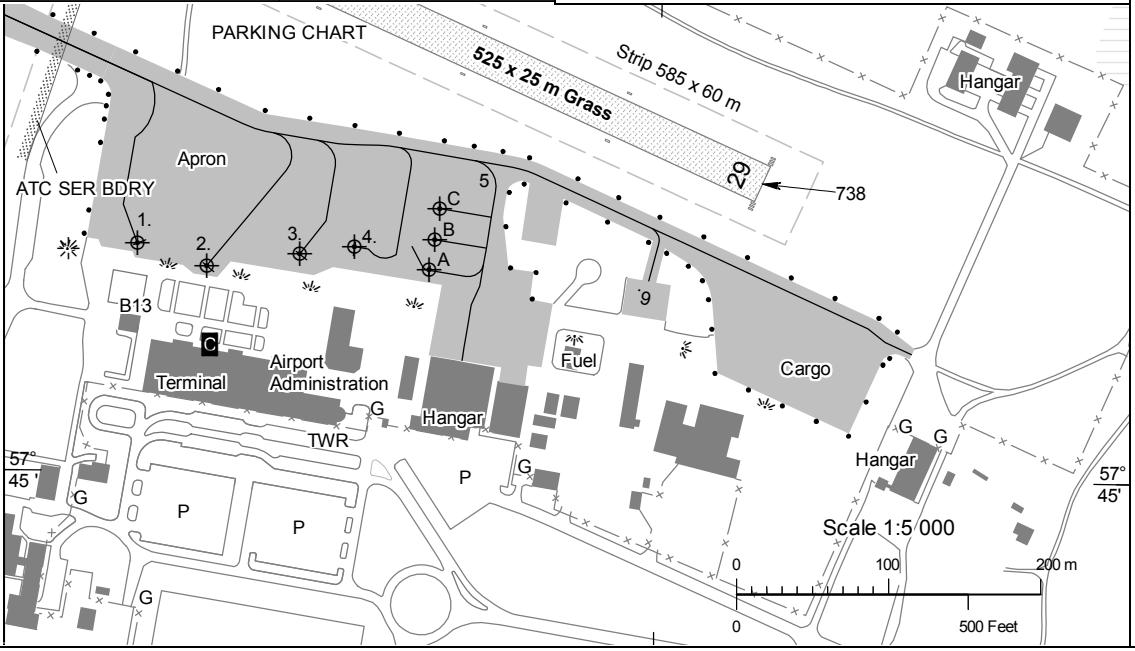
ARP 574530N 0140409E
 AD ELEV 742 FEET
 LEGEND See GEN 2.3
 Dimensions in m, ELEV in ft

TWY NR	WIDTH	Surface Bearing strength	Day marking		Taxiway lighting	
			Centerline Holding	Edge Centerline	RGL	Stopbar
A	23 m	ASPH PCN 55 F/B/X/T	CL HLDG	EDGE	RGL	
B	23 m	ASPH PCN 55 F/B/X/T	CL HLDG	EDGE	RGL	

INS Coordinates for Aircraft Stands			
APRON Surface Bearing strength	NR	COORD	ELEV
ASPH PCN 55 F/B/X/T	1	574504.85N 0140409.20E	737
	2	574504.39N 0140411.98E	739
	3	574504.66N 0140415.68E	738
	4	574504.84N 0140417.87E	737
	5a	574504.35N 0140420.86E	736
	5b	574505.01N 0140421.06E	736
	5c	574505.67N 0140421.24E	736

Approach and runway lighting					
RWY NR	APCH	THR TRID TDZ	VASIS (MEHT)	Edge	End
01	Calvert Cat I 900 m LIH	THR Green	PAPI Left/3.00° (55.8 ft)	2203/50 m White Caution zone 600 m yellow LIH	Red
19	Calvert Cat I 900 m LIH	THR Green	PAPI Left/3.00° (59.7 ft)	2203/50 m White Caution zone 600 m yellow LIH	Red
11					
29					

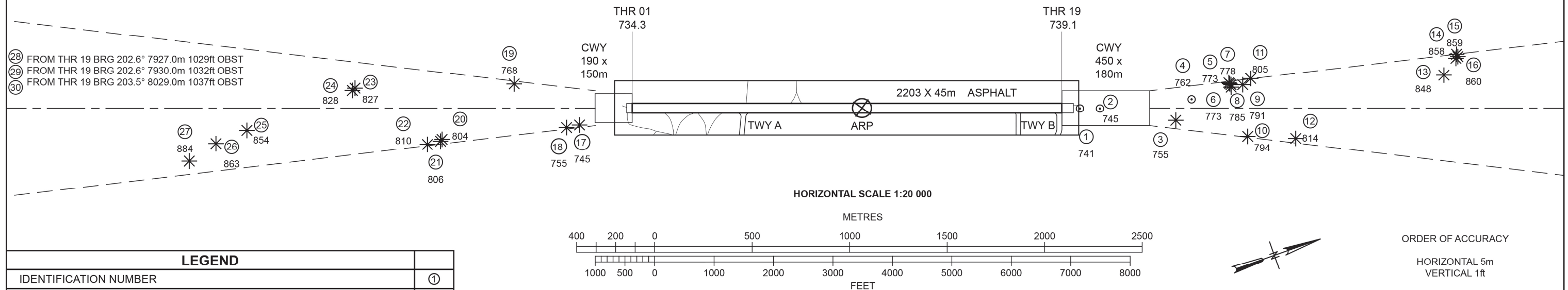
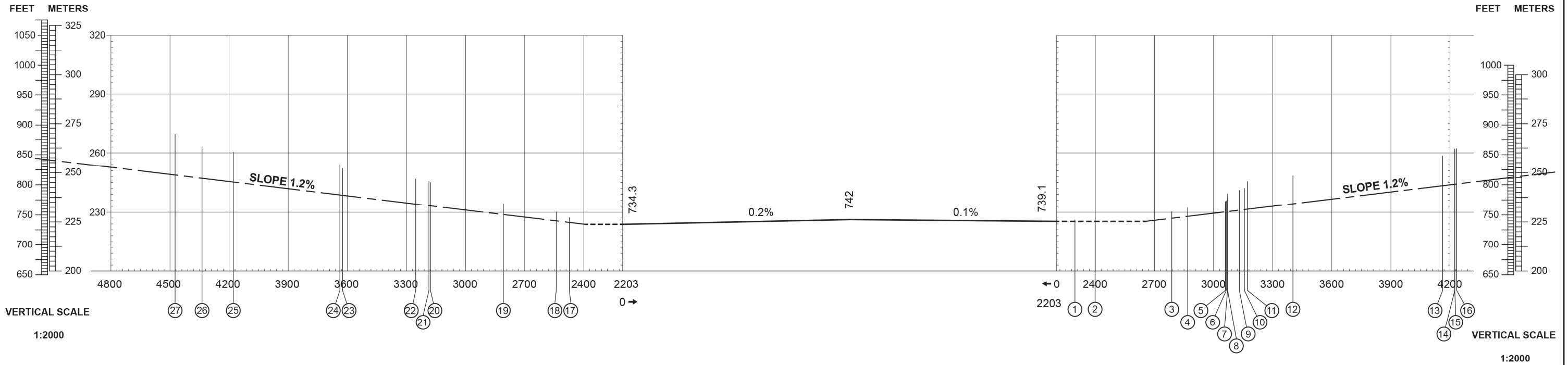
RWY NR	TRUE & MAG BRG	THR PSN Geoid undulation	Bearing strength	THR ELEV and highest ELEV of TDZ of precision APCH RWY	Declared distances			
					TORA	TODA	ASDA	LDA
01	018.07° GEO 011° MAG	574453.48N 0140346.76E GUND 108.0 ft	PCN 55 F/B/X/T	THR 734.3 ft TDZ 739 ft	2203	2653	2203	2203
19	198.08° GEO 191° MAG	574601.19N 0140428.09E GUND 107.8 ft	PCN 55 F/B/X/T	THR 739.1 ft TDZ 741 ft	2203	2393	2203	2203
11	113.91° GEO 107° MAG	574513.16N 0140405.11E GUND 108 ft		THR 737 ft	525	525	525	525
29	293.91° GEO 287° MAG	574506.29N 0140434.11E GUND 108 ft		THR 738 ft	525	525	525	525



AERODROME ELEVATION 742 FEET
MAGNETIC VARIATION 7° E 2025

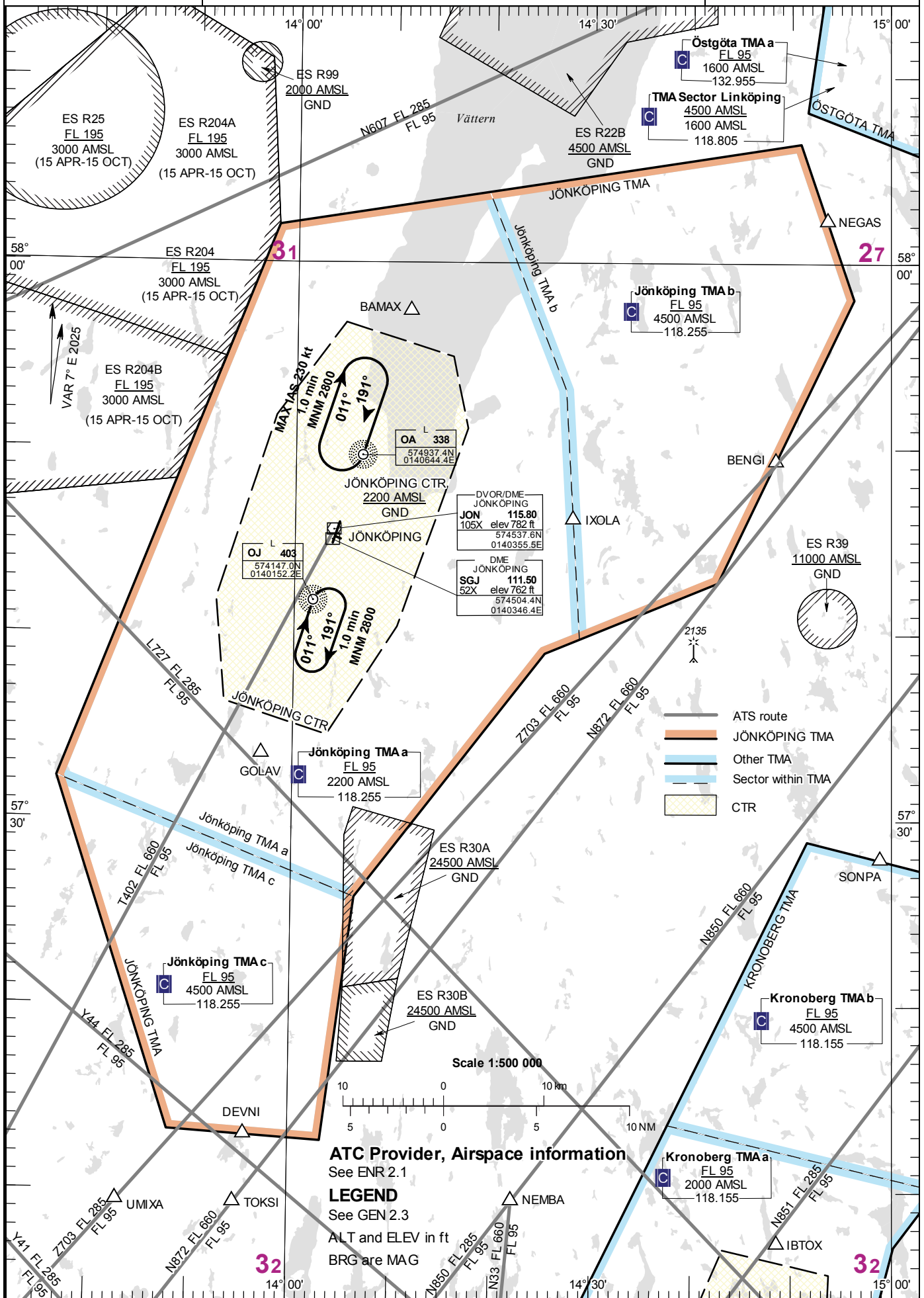
RUNWAY BEARINGS
01 = GEO 018.07°; MAG 013°
19 = GEO 198.08°; MAG 193°

RWY 01	DECLARED DISTANCES	RWY 19
2203	TAKE-OFF RUN AVAILABLE	2203
2653	TAKE-OFF DISTANCE AVAILABLE	2393
2203	ACCELERATE DIST. AVAILABLE	2203
2203	LANDING DISTANCE AVAILABLE	2203



LEGEND	
IDENTIFICATION NUMBER	①
POLE, TOWER, SPIRE, ANTENNA, ETC.	○
TREE OR SHRUB	✱
TERRAIN PENETRATING OBSTACLE PLANE	▲

ORDER OF ACCURACY
HORIZONTAL 5m
VERTICAL 1ft



ATC Provider, Airspace information

See ENR 2.1

LEGEND

See GEN 2.3

ALT and ELEV in ft

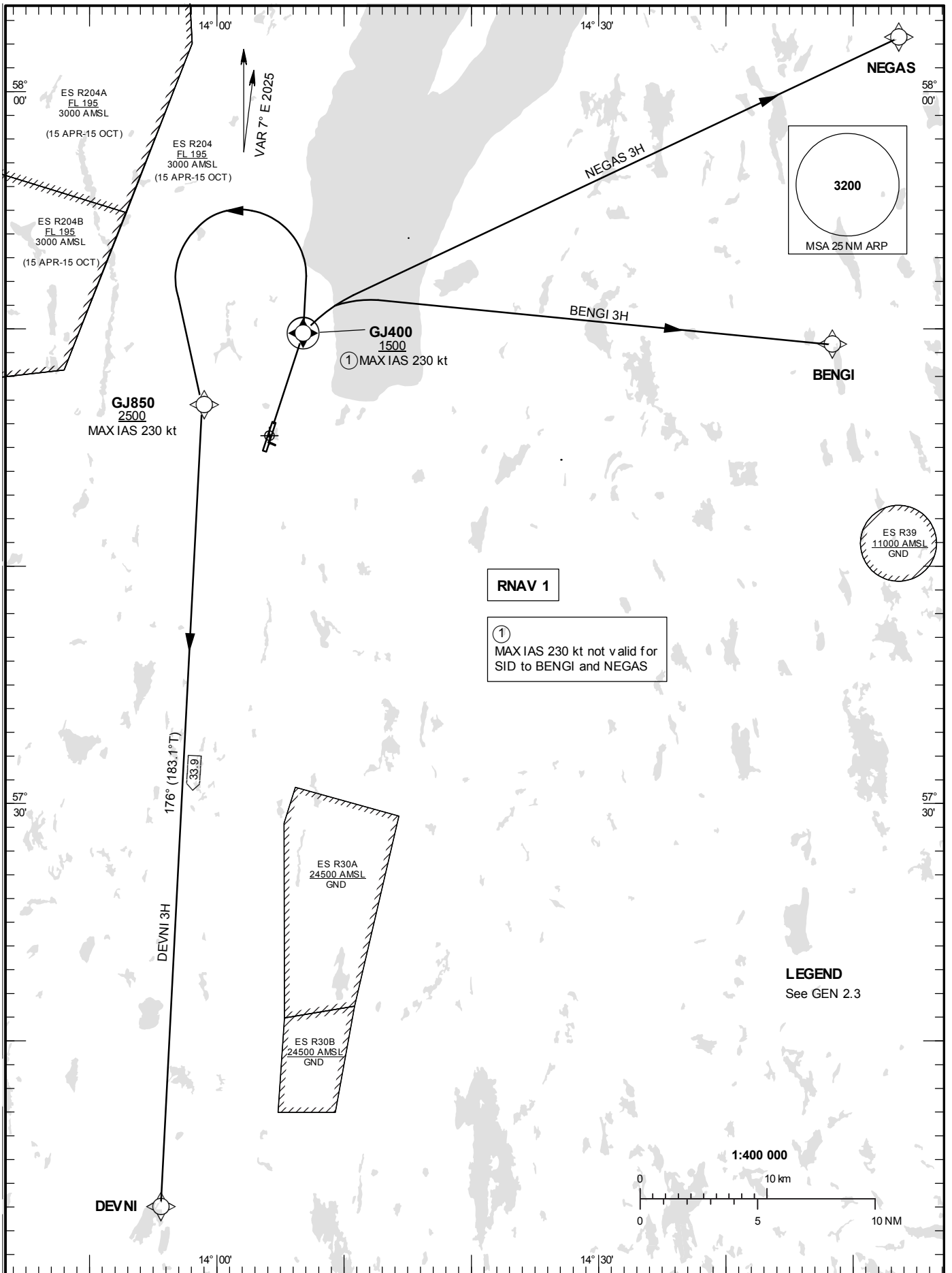
BRG are MAG

STANDARD INSTRUMENT
DEPARTURE CHART (SID) -
ICAO

HGT and ALT in ft
BRG are MAG (True)
TA 5000 ft AMSL

JÖNKÖPING TOWER 118.255

RNAV (GNSS) RWY 01
BENGI 3H, DEVNI 3H, NEGAS 3H.



Prescribed Coding of RNAV SID for RWY 01

BENGI 3H

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/ RDH (°/ft)	Rec Navaid	Navigation Specification
DF	GJ400	Y	-	-	-	+1500	-	-	-	RNAV 1
DF	BENGI	-	-	-	R	-	-	-	-	RNAV 1

SID instruction: GJ400 (1500 ft or above) – BENGI

DEVNI 3H

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/ RDH (°/ft)	Rec Navaid	Navigation Specification
DF	GJ400	Y	-	-	-	+1500	-230	-	-	RNAV 1
DF	GJ850	-	-	-	L	+2500	-230	-	-	RNAV 1
TF	DEVNI	-	176°(183.1°)	33.9	-	-	-	-	-	RNAV 1

SID instruction: GJ400 (1500 ft or above, MAX IAS 230 kt) – GJ850 (2500 ft or above, MAX IAS 230 kt) – DEVNI

NEGAS 3H

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/ RDH (°/ft)	Rec Navaid	Navigation Specification
DF	GJ400	Y	-	-	-	+1500	-	-	-	RNAV 1
DF	NEGAS	-	-	-	R	-	-	-	-	RNAV 1

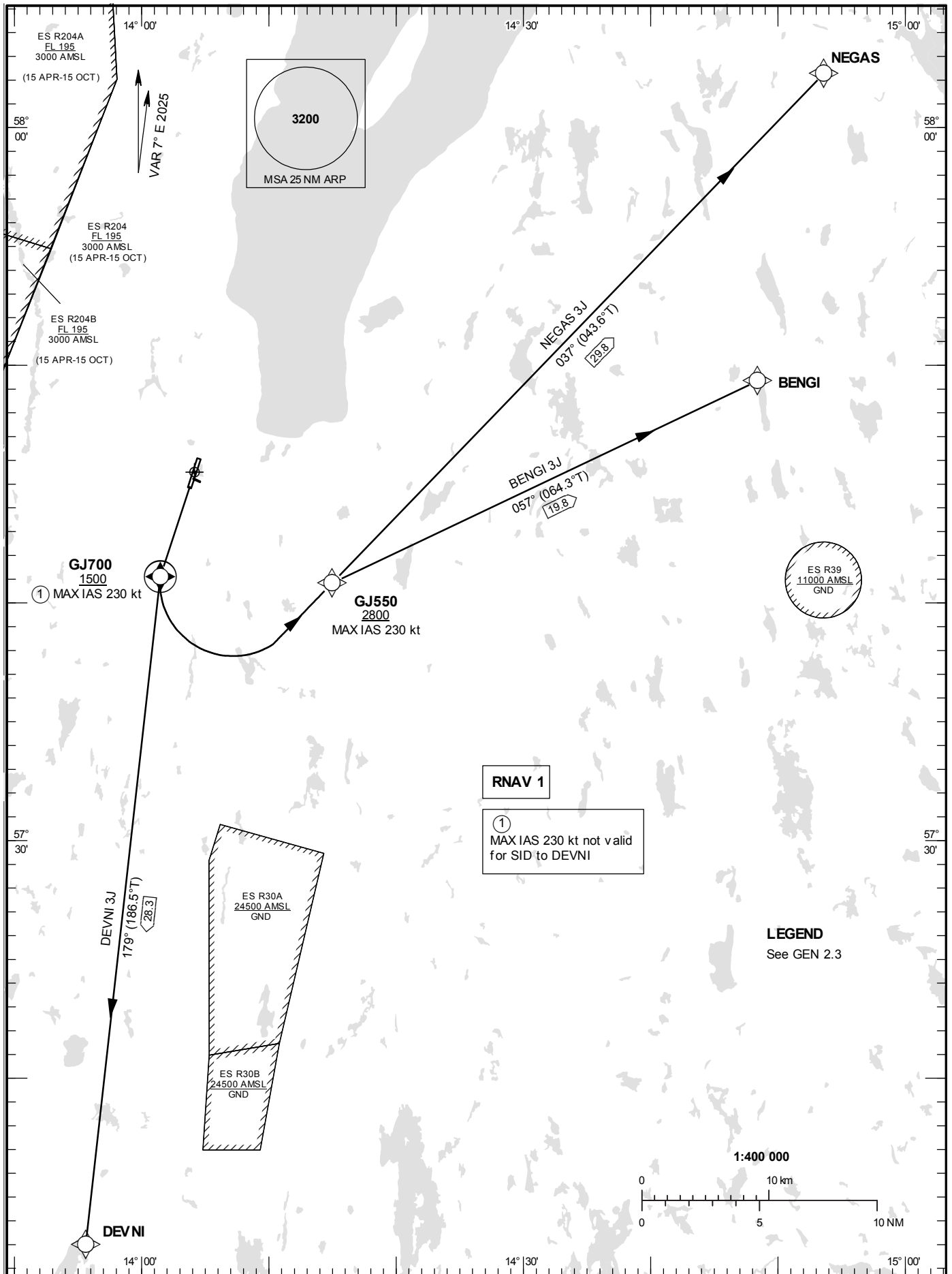
SID instruction: GJ400 (1500 ft or above) – NEGAS

STANDARD INSTRUMENT
DEPARTURE CHART (SID) -
ICAO

HGT and ALT in ft
BRG are MAG (True)
TA 5000 ft AMSL

JÖNKÖPING TOWER 118.255

RNAV (GNSS) RWY 19
BENGI 3J, DEVNI 3J, NEGAS 3J.



Prescribed Coding of RNAV SID for RWY 19

BENGI 3J

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/RDH (°/ft)	Rec Navaid	Navigation Specification
DF	GJ700	Y	-	-	-	+1500	-230	-	-	RNAV 1
DF	GJ550	-	-	-	L	+2800	-230	-	-	RNAV 1
TF	BENGI	-	057°(064.3°)	19.8	-	-	-	-	-	RNAV 1

SID instruction: GJ700 (1500 ft or above, MAX IAS 230 kt) – GJ550 (2800 ft or above, MAX IAS 230 kt) – BENGI

DEVNI 3J

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/RDH (°/ft)	Rec Navaid	Navigation Specification
DF	GJ700	Y	-	-	-	+1500	-	-	-	RNAV 1
TF	DEVNI	-	179°(186.5°)	28.3	-	-	-	-	-	RNAV 1

SID instruction: GJ700 (1500 ft or above) – DEVNI

NEGAS 3J

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/RDH (°/ft)	Rec Navaid	Navigation Specification
DF	GJ700	Y	-	-	-	+1500	-230	-	-	RNAV 1
DF	GJ550	-	-	-	L	+2800	-230	-	-	RNAV 1
TF	NEGAS	-	037°(043.6°)	29.8	-	-	-	-	-	RNAV 1

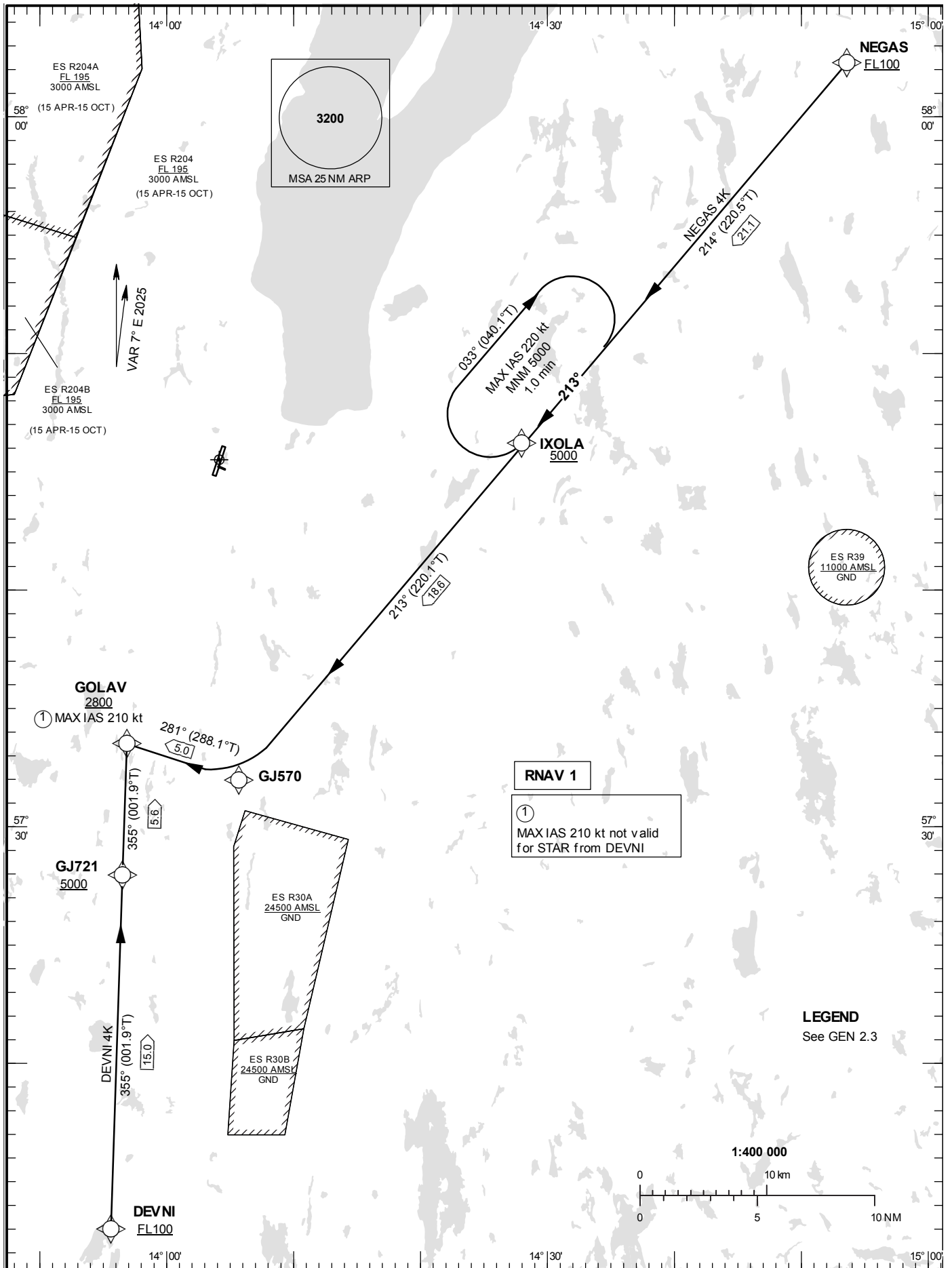
SID instruction: GJ700 (1500 ft or above, MAX IAS 230 kt) – GJ550 (2800 ft or above, MAX IAS 230 kt) – NEGAS

STANDARD INSTRUMENT
ARRIVAL CHART (STAR) -
ICAO

HGT and ALT in ft
BRG are MAG (True)
TA 5000 ft AMSL

JÖNKÖPING TOWER 118.255

RNAV (GNSS) RWY 01
DEVNI 4K, NEGAS 4K.



Prescribed Coding of RNAV STAR for RWY 01

DEVNI 4K

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/RDH (°/ft)	Rec Navaid	Navigation Specification
IF	DEVNI	-	-	-	-	+FL100	-	-	-	RNAV 1
TF	GJ721	-	355°(001.9°)	15.0	-	+5000	-	-	-	RNAV 1
TF	GOLAV	-	355°(001.9°)	5.6	-	+2800	-	-	-	RNAV 1

STAR instruction: DEVNI (FL100 or above) – GJ721 (5000 ft or above) – GOLAV (2800 ft or above)

NEGAS 4K

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/RDH (°/ft)	Rec Navaid	Navigation Specification
IF	NEGAS	-	-	-	-	+FL100	-	-	-	RNAV 1
TF	IXOLA	-	214°(220.5°)	21.1	-	+5000	-	-	-	RNAV 1
TF	GJ570	-	213°(220.1°)	18.6	-	-	-	-	-	RNAV 1
TF	GOLAV	-	281°(288.1°)	5.0	-	+2800	-210	-	-	RNAV 1

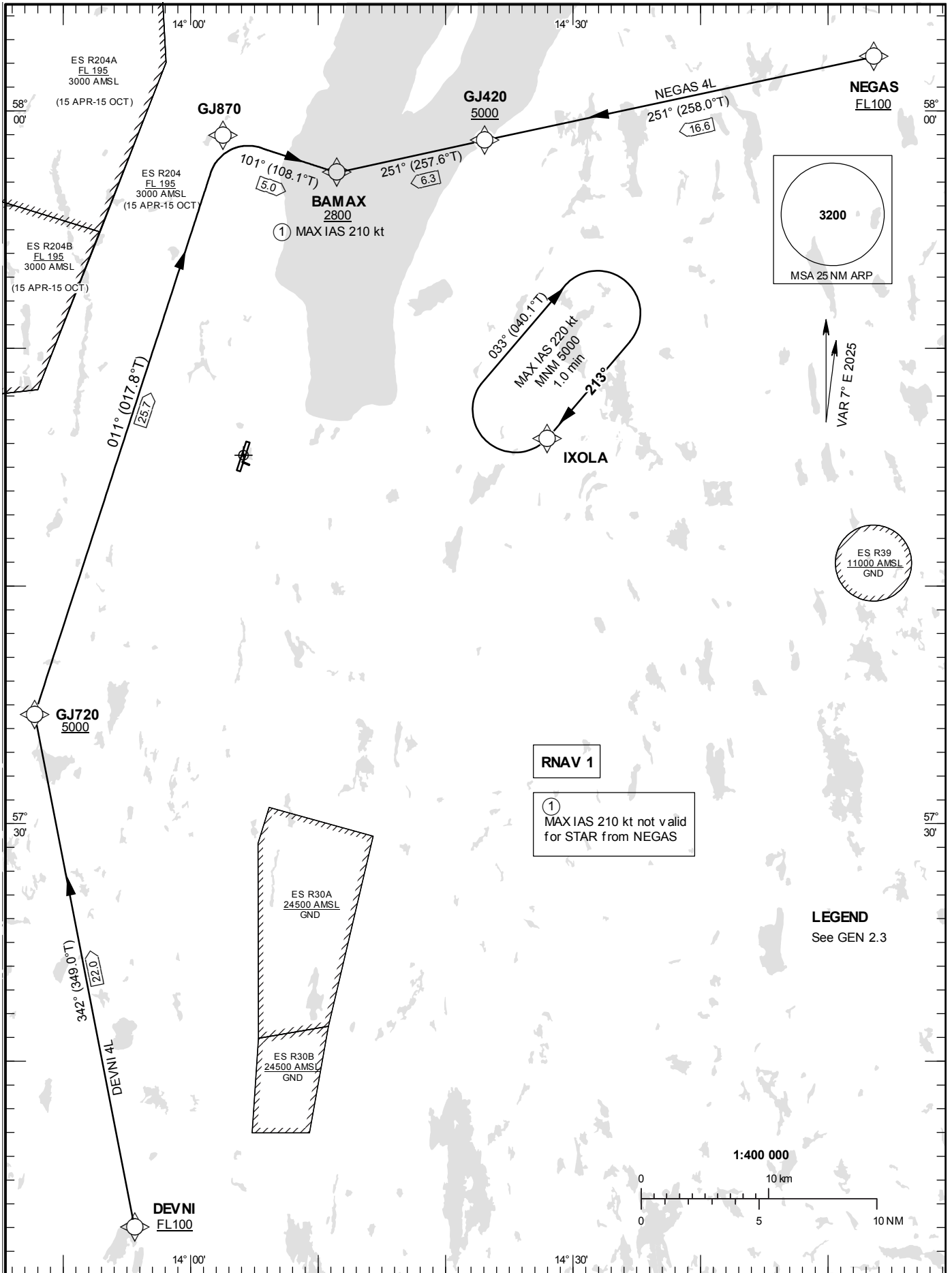
STAR instruction: NEGAS (FL100 or above) – IXOLA (5000 ft or above) – GJ570 – GOLAV (2800 ft or above, MAX IAS 210 kt)

STANDARD INSTRUMENT
ARRIVAL CHART (STAR) -
ICAO

HGT and ALT in ft
BRG are MAG (True)
TA 5000 ft AMSL

JÖNKÖPING TOWER 118.255

RNAV (GNSS) RWY 19
DEVNI 4L, NEGAS 4L



RNAV 1

① MAX IAS 210 kt not valid for STAR from NEGAS

LEGEND
See GEN 2.3

Prescribed Coding of RNAV STAR for RWY 19

DEVNI 4L

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/RDH (°/ft)	Rec Navaid	Navigation Specification
IF	DEVNI	-	-	-	-	+FL100	-	-	-	RNAV 1
TF	GJ720	-	342°(349.0°)	22.0	-	+5000	-	-	-	RNAV 1
TF	GJ870	-	011°(017.8°)	25.7	-	-	-	-	-	RNAV 1
TF	BAMAX	-	101°(108.0°)	5.0	-	+2800	-210	-	-	RNAV 1

STAR instruction: DEVNI (FL100 or above) – GJ720 (5000 ft or above) – GJ870 – BAMAX (2800 ft or above, MAX IAS 210 kt)

NEGAS 4L

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/RDH (°/ft)	Rec Navaid	Navigation Specification
IF	NEGAS	-	-	-	-	+FL100	-	-	-	RNAV 1
TF	GJ420	-	251°(258.0°)	16.6	-	+5000	-	-	-	RNAV 1
TF	BAMAX	-	251°(257.6°)	6.3	-	+2800	-	-	-	RNAV 1

STAR instruction: NEGAS (FL100 or above) – GJ420 (5000 ft or above) – BAMAX (2800 ft or above)

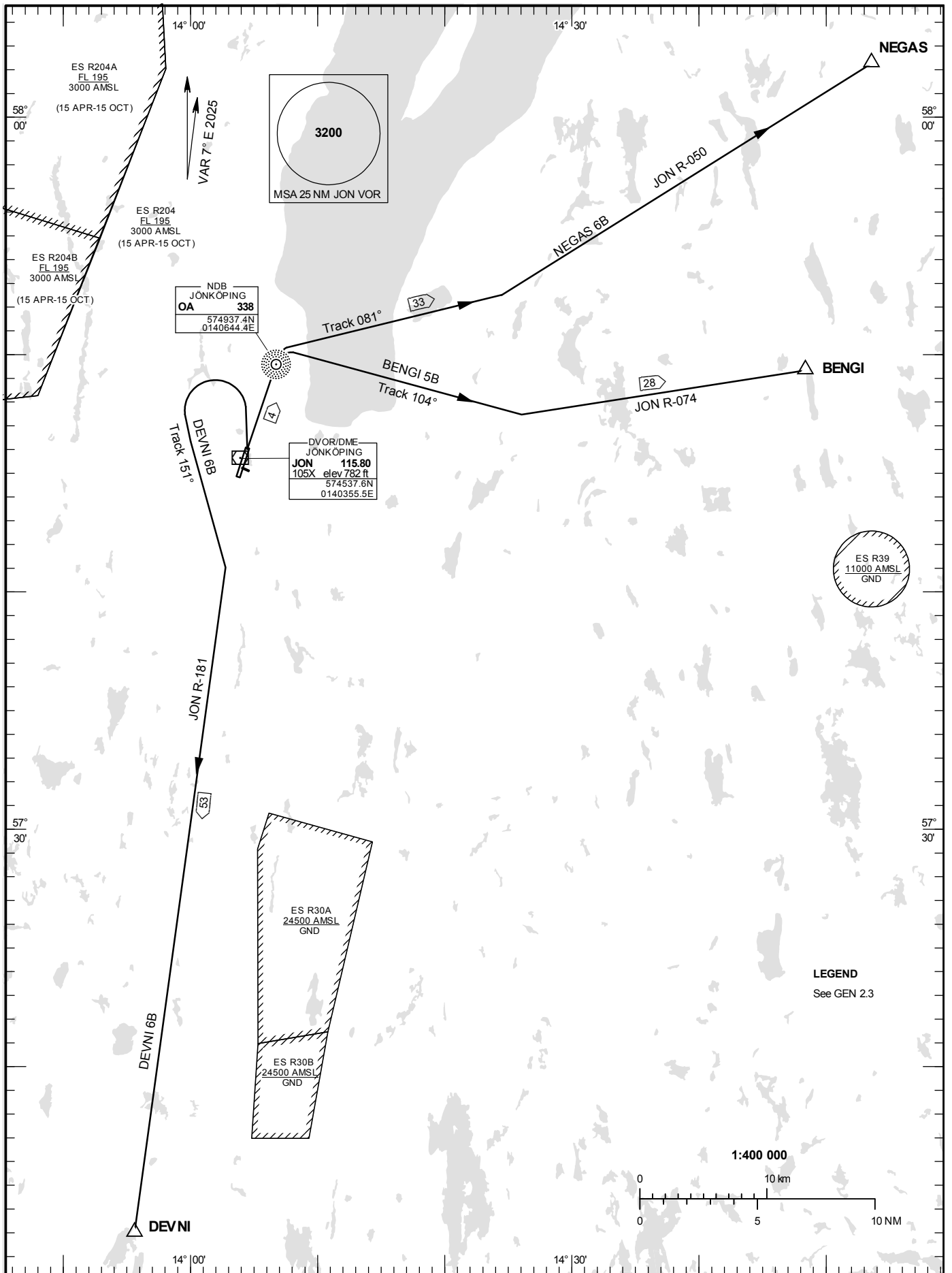
STANDARD INSTRUMENT
DEPARTURE CHART (SID) -
ICAO

HGT and ALT in ft
BRG are MAG
TA 5000 ft AMSL

JÖNKÖPING TOWER 118.255

RWY 01

BENGI 5B, NEGAS 6B, DEVNI 6B



DEPARTURE (SID) RWY 01

BENGI FIVE BRAVO DEPARTURE (BENGI 5B)

Straight ahead to OA, turn right to track 104°. Intercept JON R-074 and proceed to BENGI.

NEGAS SIX BRAVO DEPARTURE (NEGAS 6B)

Straight ahead to OA, turn right to track 081°, intercept JON R-050 and proceed to NEGAS.

DEVNI SIX BRAVO DEPARTURE (DEVNI 6B)

Straight ahead to 1200 ft, turn left to track 151°, intercept JON R-181 and proceed to DEVNI.

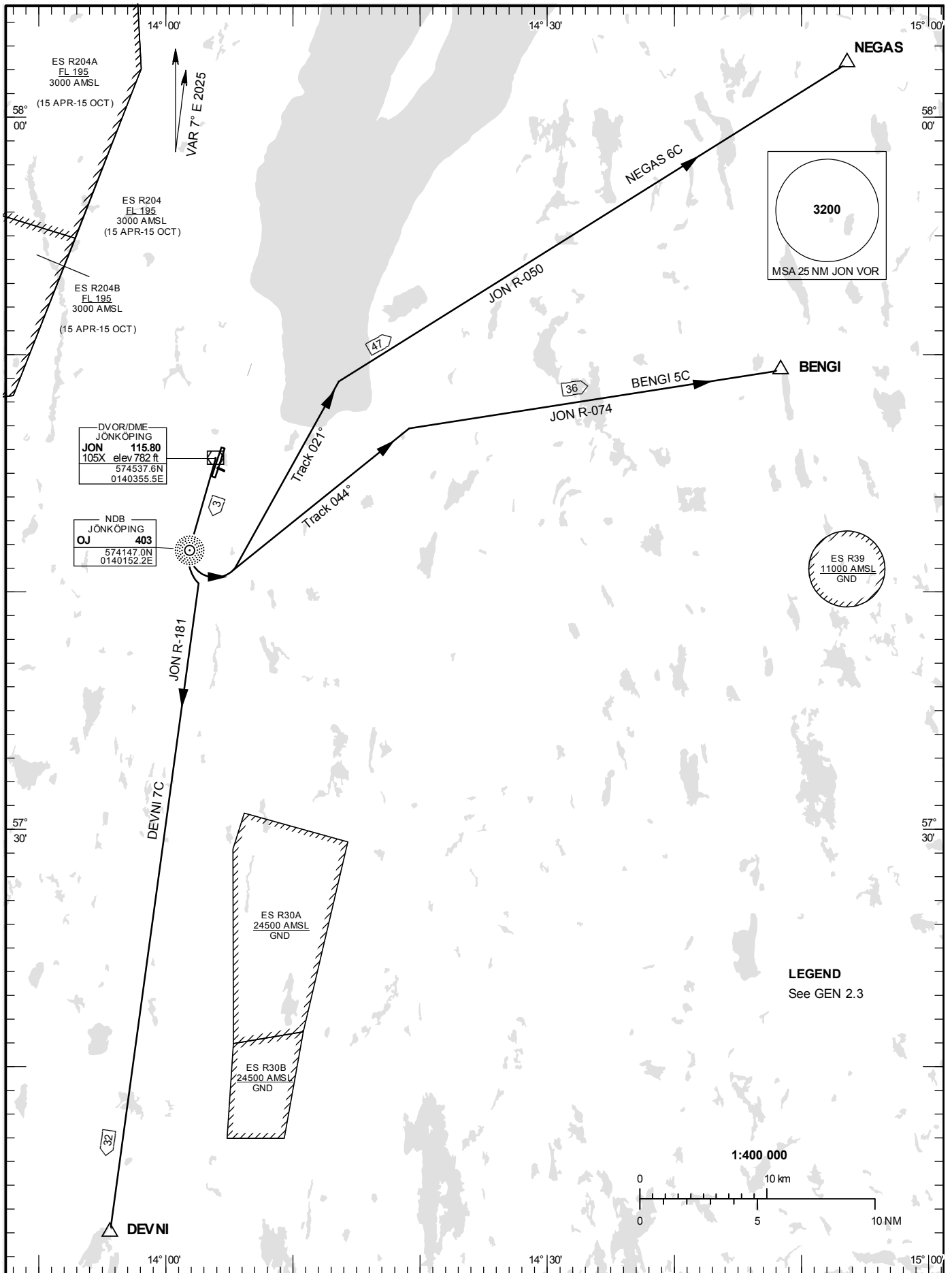
STANDARD INSTRUMENT
DEPARTURE CHART (SID) -
ICAO

HGT and ALT in ft
BRG are MAG
TA 5000 ft AMSL

JÖNKÖPING TOWER 118.255

RWY 19

BENGI 5C, DEVNI 7C, NEGAS 6C



DEPARTURE (SID) RWY 19

BENGI FIVE CHARLIE DEPARTURE (BENGI 5C)

Straight ahead to OJ, turn left to track 044°. Intercept JON R-074 and proceed to BENGI.

DEVNI SEVEN CHARLIE DEPARTURE (DEVNI 7C)

Straight ahead to OJ, intercept JON R-181 and proceed to DEVNI.

NEGAS SIX CHARLIE DEPARTURE (NEGAS 6C)

Straight ahead to OJ, turn left to track 021°. Intercept JON R-050 and proceed to NEGAS.

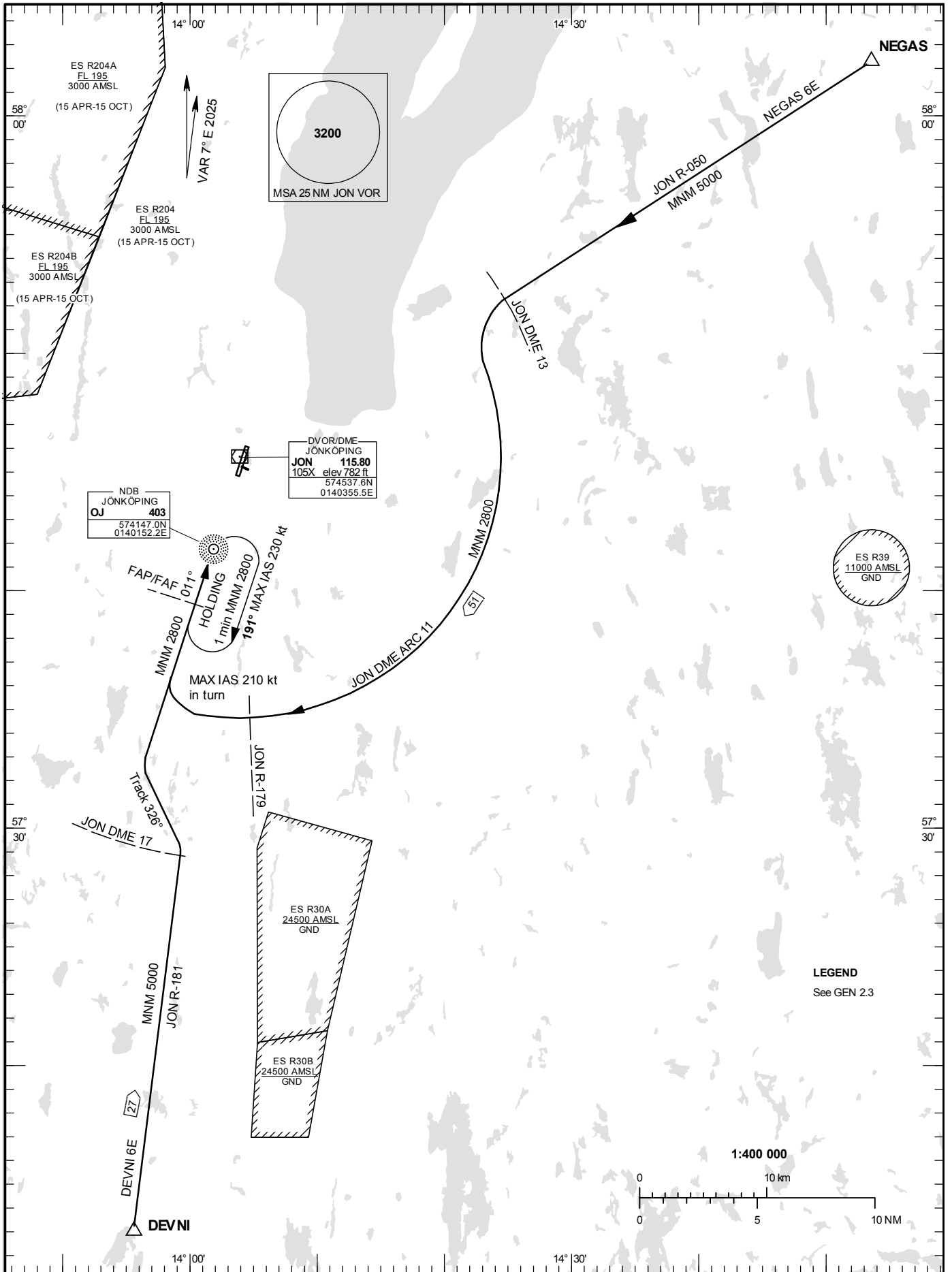
STANDARD INSTRUMENT
ARRIVAL CHART (STAR) -
ICAO

HGT and ALT in ft
BRG are MAG
TA 5000 ft AMSL

JÖNKÖPING TOWER 118.255

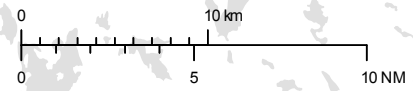
RWY 01

DEVNI 6E, NEGAS 6E



LEGEND
See GEN 2.3

1:400 000



ARRIVAL (STAR) RWY 01

REMARK

Descent to minimum altitude for an arrival route must not be initiated until an ATC clearance to this altitude or an approach clearance has been received.

DEVNI SIX ECHO ARRIVAL (DEVNI 6E)

At DEVNI intercept JON R-181, not below 5000 ft until JON DME 17. At JON DME 17 turn left to track 326° to intercept LOC SGJ, not below 2800 ft until FAP/FAF.

NEGAS SIX ECHO ARRIVAL (NEGAS 6E)

After NEGAS intercept JON R-050 and proceed to JON DME 13, not below 5000 ft. Turn left and proceed on JON DME ARC 11, not below 2800 ft.
At JON R-179 turn right (MAX IAS 210 kt in turn) to intercept LOC SGJ, not below 2800 ft until FAF/FAF.

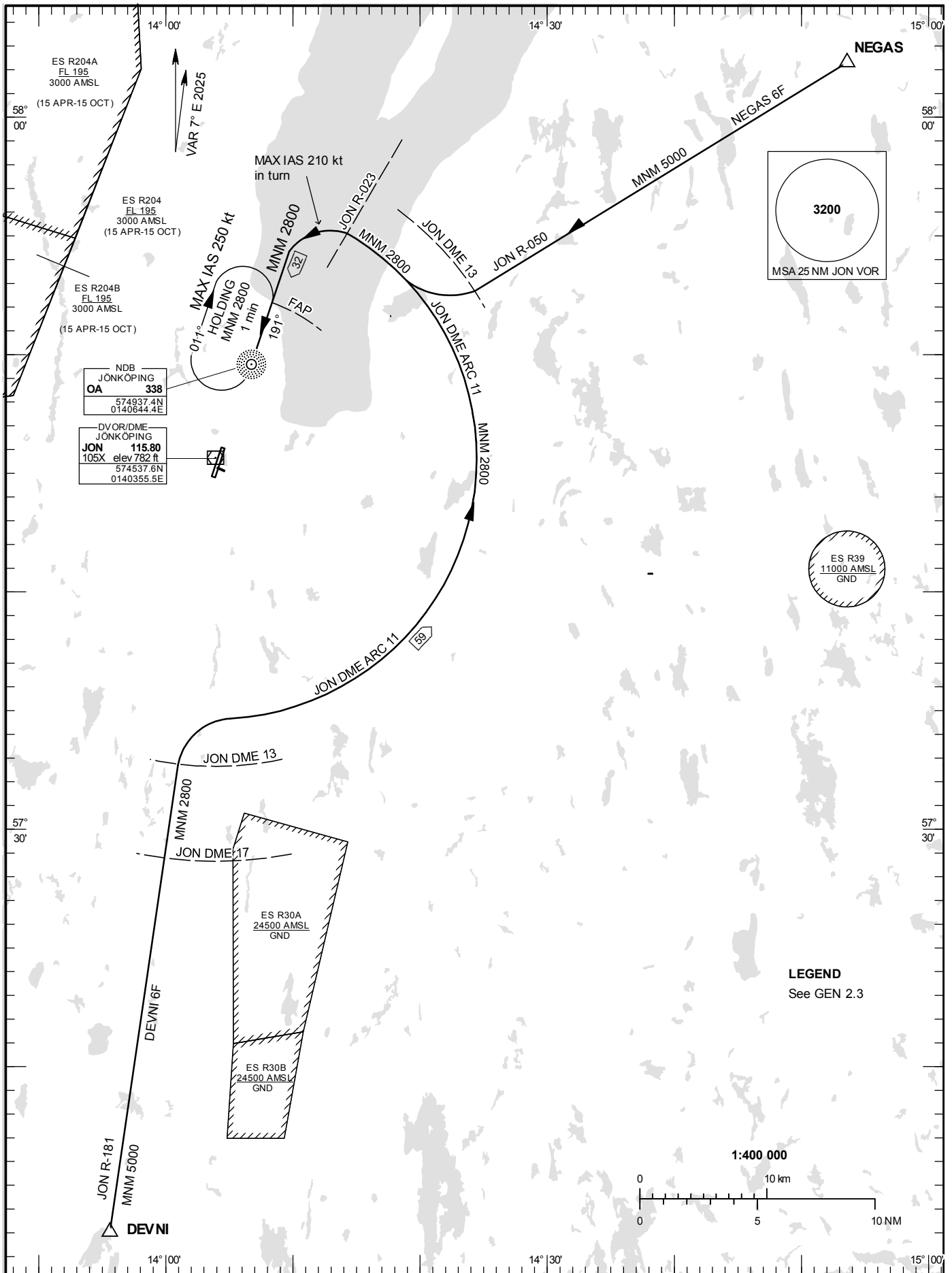
STANDARD INSTRUMENT
ARRIVAL CHART (STAR) -
ICAO

HGT and ALT in ft
BRG are MAG
TA 5000 ft AMSL

JÖNKÖPING TOWER 118.255

RWY 19

DEVNI 6F, NEGAS 6F



ARRIVAL (STAR) RWY 19

REMARK

Descent to minimum altitude for an arrival route must not be initiated until an ATC clearance to this altitude or an approach clearance has been received.

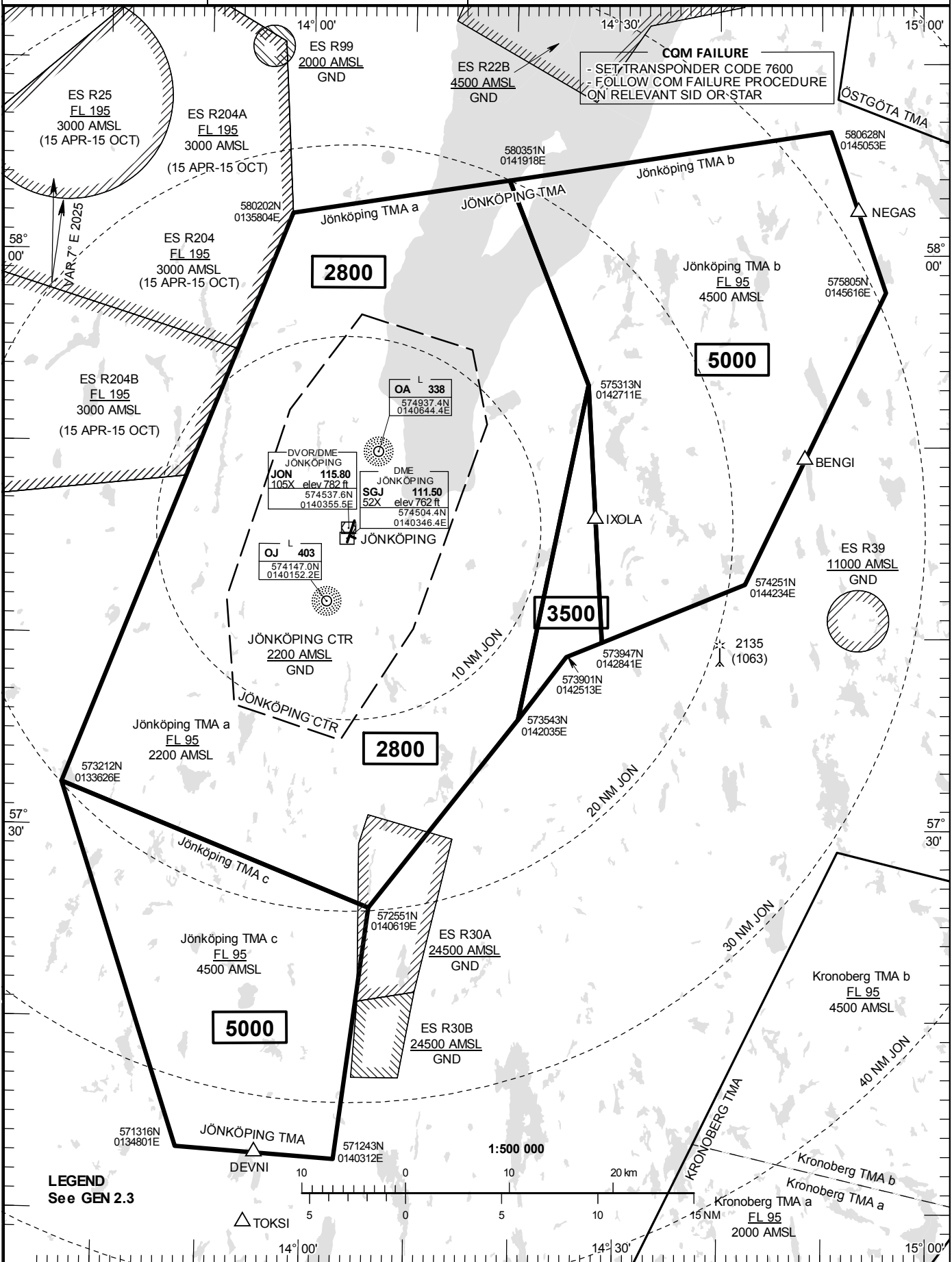
DEVNI SIX FOXTROT ARRIVAL (DEVNI 6F)

At DEVNI intercept JON R-181, not below 5000 ft until JON DME 17. At JON DME 13 turn right and proceed on JON DME ARC 11, not below 2800 ft. At JON R-023 turn left to intercept LOC SJ, not below 2800 ft until FAP.

NEGAS SIX FOXTROT ARRIVAL (NEGAS 6F)

At NEGAS intercept JON R-050, and proceed to JON DME 13, not below 5000 ft. Turn right and intercept JON DME ARC 11, not below 2800 ft. At JON R-023 turn left to intercept LOC SJ, not below 2800 ft until FAP.

AD ELEV 742 FEET HGT and ALT in ft TA 5000 AMSL	JÖNKÖPING TOWER 118.255 ES R99 2000 AMSL GND	THIS CHART MAY ONLY BE USED FOR CROSS-CHECKING OF ASSIGNED ALTITUDES WHILST IN RECEIPT OF RADAR SERVICE LEVELS ASSIGNED BY ATC INCLUDE A CORRECTION FOR LOW TEMPERATURE EFFECT
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LEGEND
See GEN 2.3

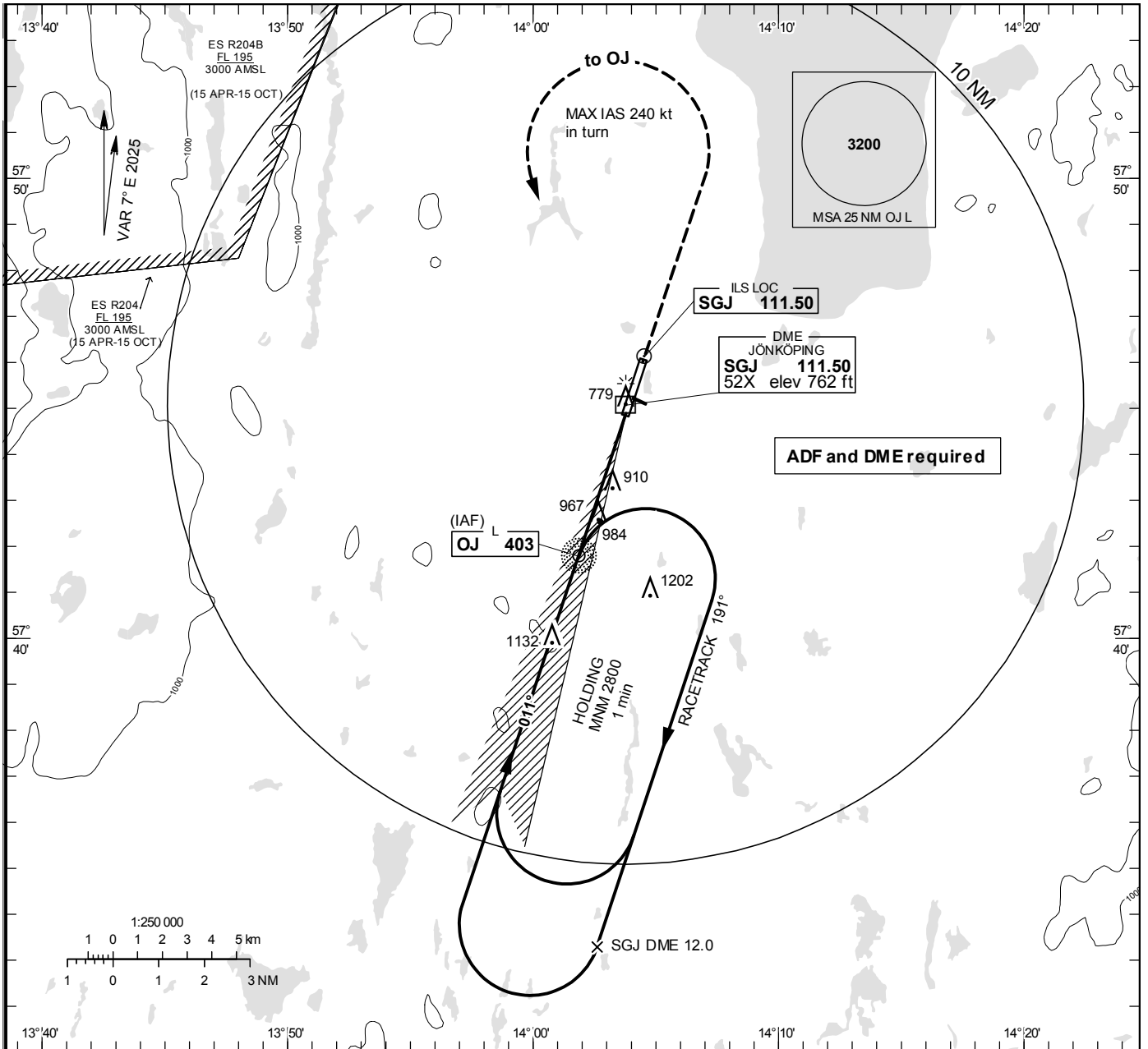
Reverse side intentionally blank

INSTRUMENT APPROACH CHART – ICAO

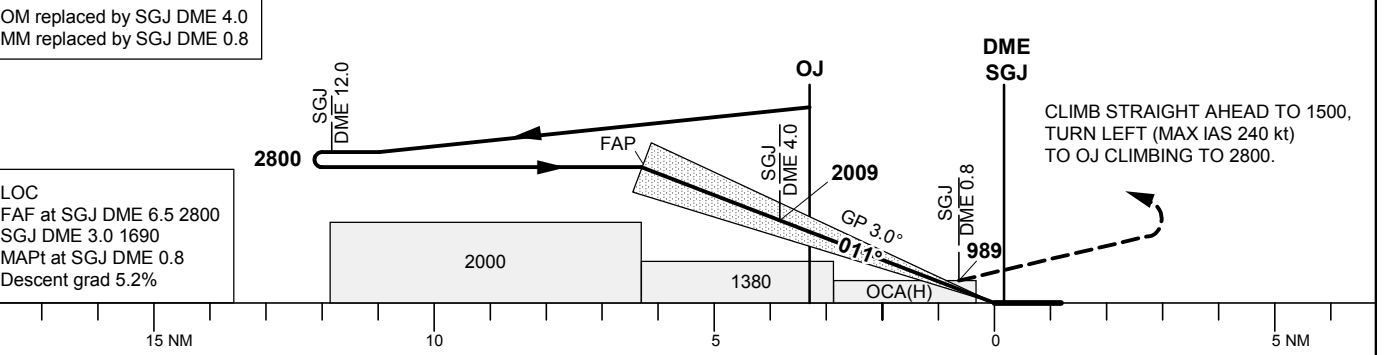
THR ELEV 734.3 ft, AD ELEV 742 ft
 OCH are related to THR.
 Circling OCH are related to AD ELEV.
 BRG are MAG
 ALT, HGT and ELEV in ft.

JÖNKÖPING TOWER 118.255

ILS or LOC RWY 01



TA 5000 ft AMSL RDH 56.0 ft *Timing not authorized for defining the MAPt



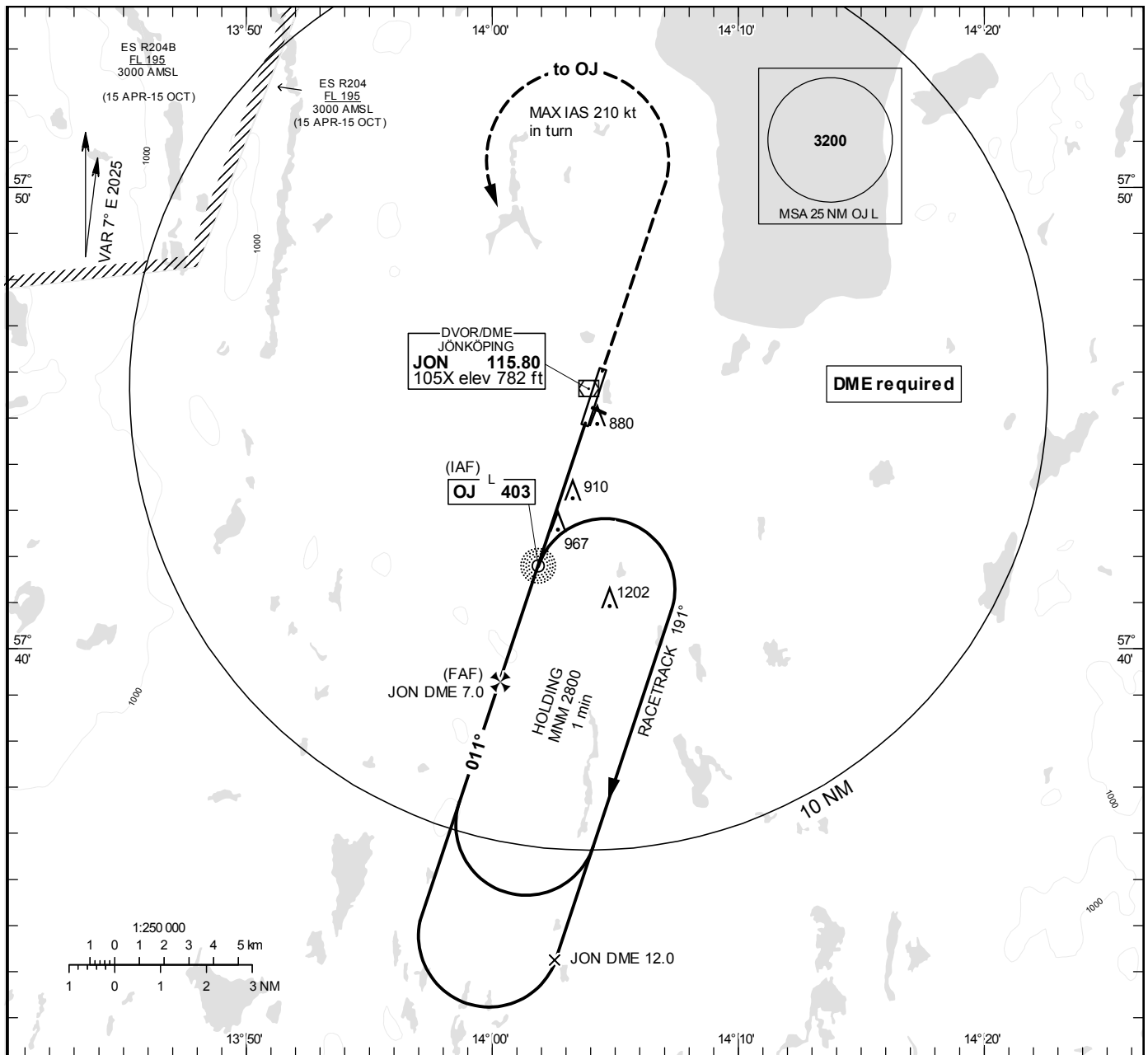
OCA (H)					Final approach		LOC Distance FAF-MAPt 6.0 NM*						
Cat of ACFT	A	B	C	D	DME SGJ NM	6	5	4	3	2			
Straight-in Approach	CAT I	876(141)	885(150)	896(161)	908(173)	ALT	2650	2330	2010	1690	1380		
	LOC	1230(500)				GS	kt	80	100	120	140	160	180
						Time	min:s	4:30	3:36	3:00	2:34	2:15	2:00
Circling (MAX IAS 190 kt)	1210(470)	1270(530)	1600(860)	1600(860)	Rate of descent	ft/min	425	530	635	745	850	955	

NDB RWY 01

JÖNKÖPING TOWER 118.255

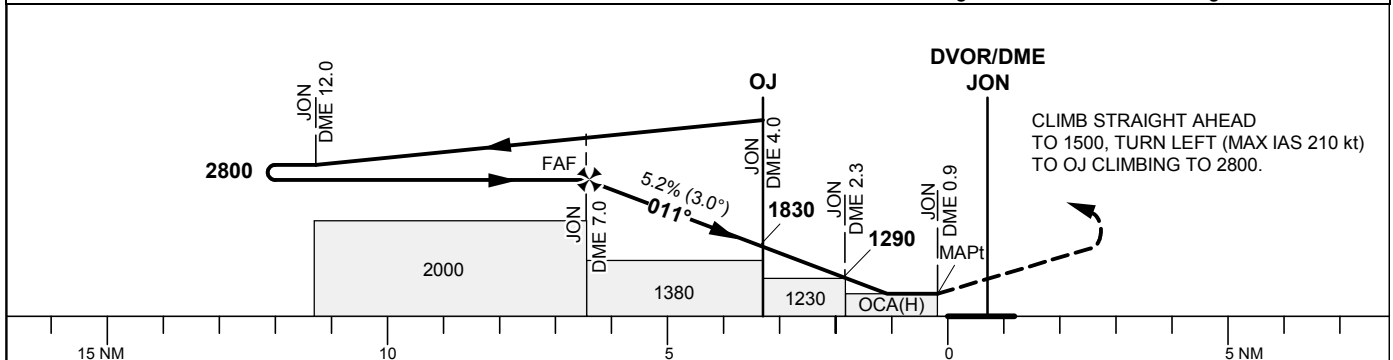
THR ELEV 734.3 ft, AD ELEV 742 ft
OCH are related to THR.
Circling OCH are related to AD ELEV.
BRG are MAG
ALT, HGT and ELEV in ft.

INSTRUMENT
APPROACH
CHART – ICAO



TA 5000 ft AMSL

*Timing not authorized for defining the MAPt



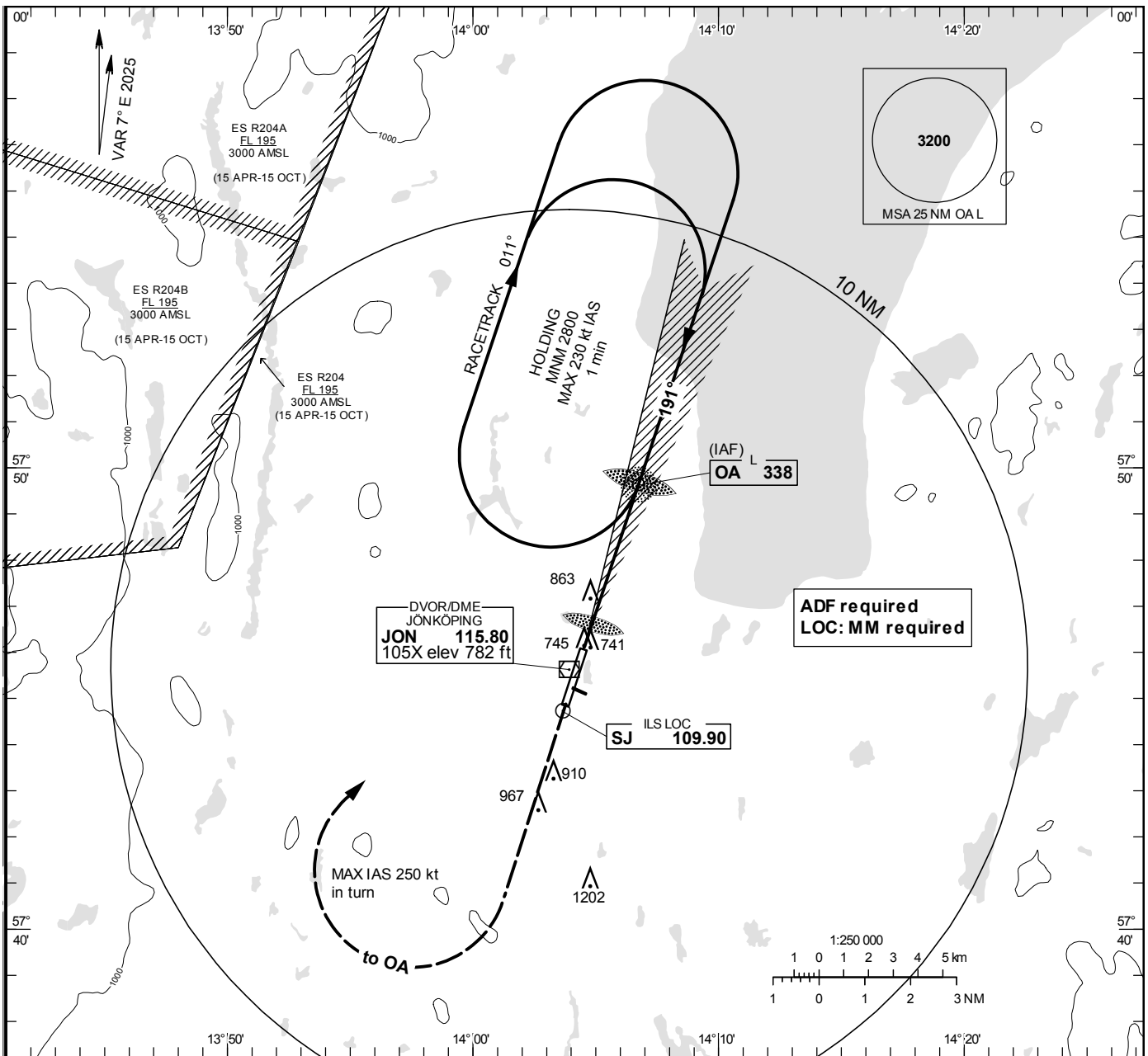
OCA (H)					Final approach		Distance FAF-MAPt 6.1 NM*					
Cat of ACFT	A	B	C	D	DME JON NM	7	6	5	4	3	2	
Straight-in Approach	1160(430)				ALT	2790	2470	2150	1830	1510	1200	
Circling (Max IAS 190 kt)	1210(470)	1270(530)	1600(860)	1600(860)	GS	kt	80	100	120	140	160	180
					Time	min:s	4:35	3:40	3:03	2:37	2:17	2:02
					Rate of descent	ft/min	425	530	635	745	850	955

INSTRUMENT APPROACH CHART – ICAO

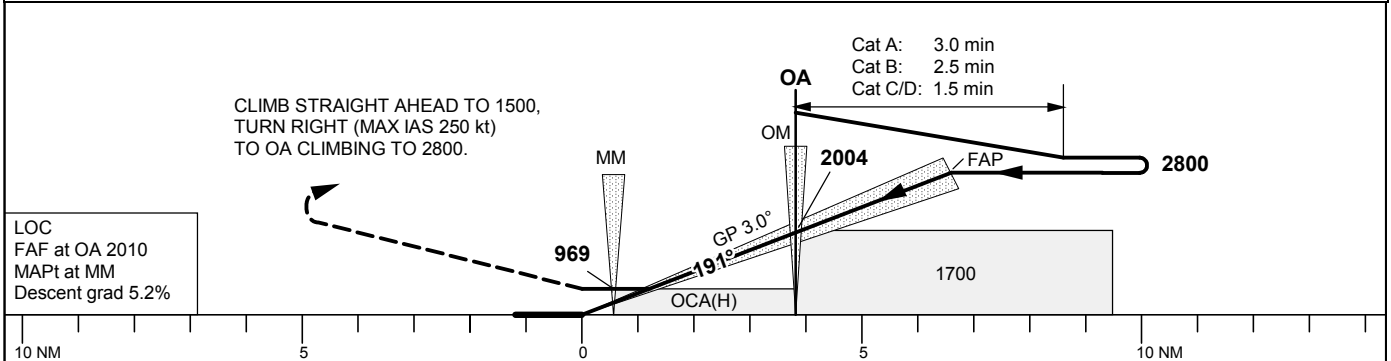
THR ELEV 739.1 ft, AD ELEV 742 ft
 OCH are related to THR.
 Circling OCH are related to AD ELEV.
 BRG are MAG
 ALT. HGT and ELEV in ft.

JÖNKÖPING TOWER 118.255

ILS or LOC RWY 19



TA 5000 ft AMSL RDH 50.9 ft *Timing not authorized for defining the MAPt



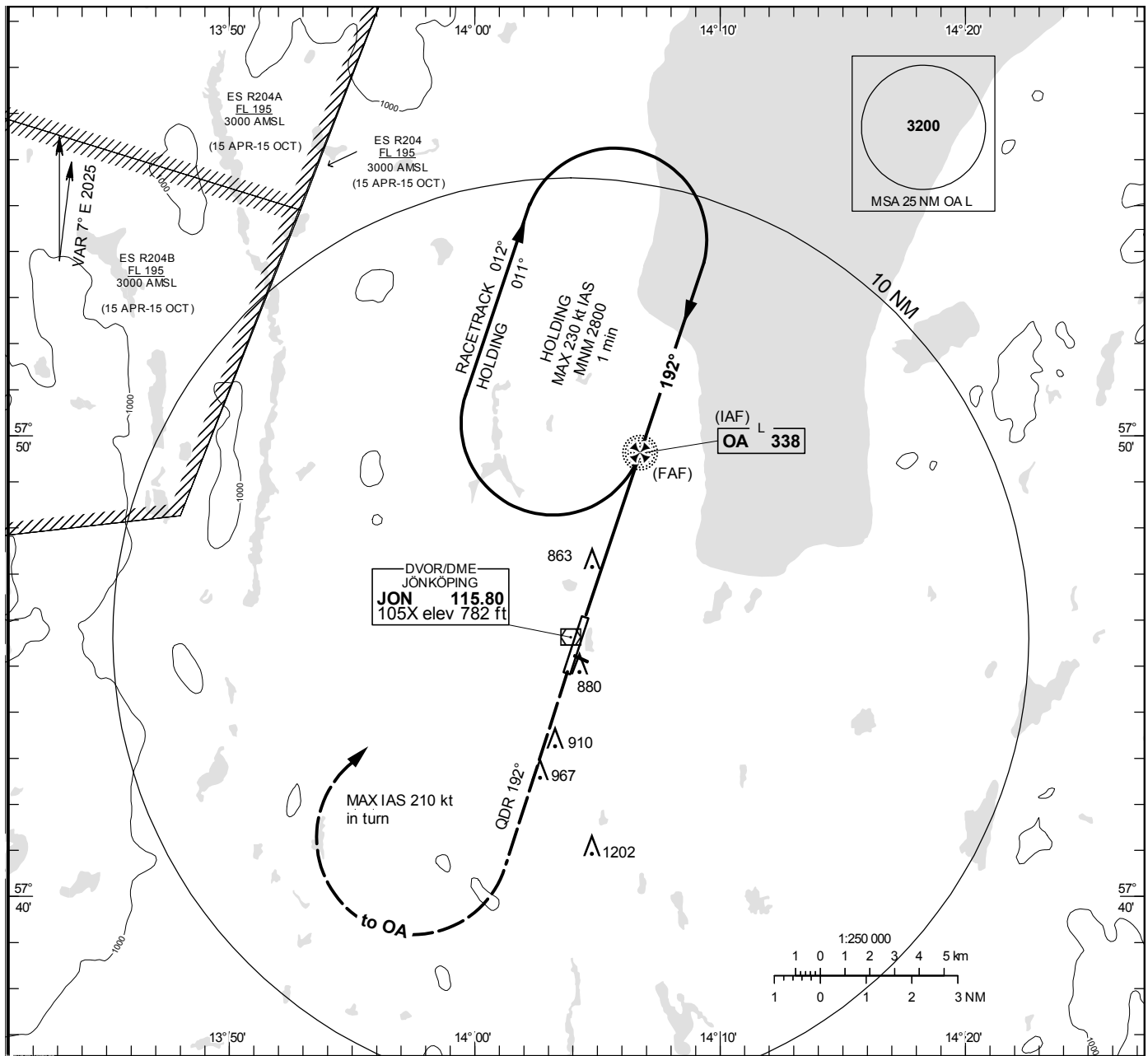
OCA (H)					Final approach		LOC Distance FAF-MAPt 3.2 NM*						
Cat of ACFT	A	B	C	D	DME JON NM	2	3	4					
Straight-in Approach	CAT I	884(144)	892(152)	901(161)	910(170)	1280	1600	1920					
	LOC	1110(380)				GS	80	100	120	140	160	180	
Circling (Max IAS 190 kt)		1210(470)	1270(530)	1600(860)	1600(860)	Time	min:s	2:26	1:57	1:38	1:24	1:13	1:05
						Rate of descent	ft/min	425	530	635	745	850	955

NDB RWY 19

JÖNKÖPING TOWER 118.255

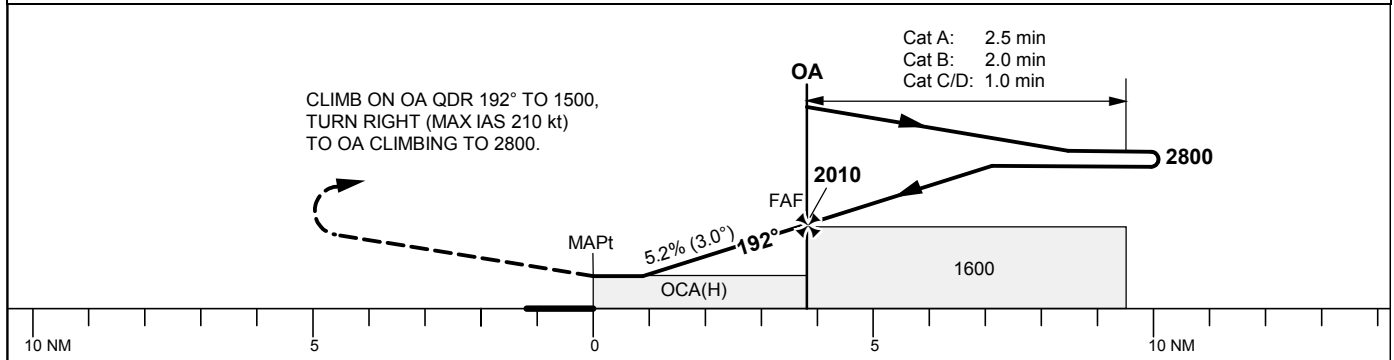
THR ELEV 739.1 ft, AD ELEV 742 ft
OCH are related to THR.
Circling OCH are related to AD ELEV.
BRG are MAG
ALT. HGT and ELEV in ft.

INSTRUMENT
APPROACH
CHART – ICAO



TA 5000 ft AMSL

Final APCH line 1° offset



OCA (H)					Final approach	Distance FAF-MAPt 3.8 NM						
Cat of ACFT	A	B	C	D	DME JON NM	2	3	4				
Straight-in Approach	1130(400)				ALT	1280	1600	1920				
Circling (Max IAS 190 kt)	1210(470)	1270(530)	1600(860)	1600(860)	GS	kt	80	100	120	140	160	180
					Time	min:s	2:51	2:17	1:54	1:38	1:26	1:16
					Rate of descent	ft/min	425	530	635	745	850	955

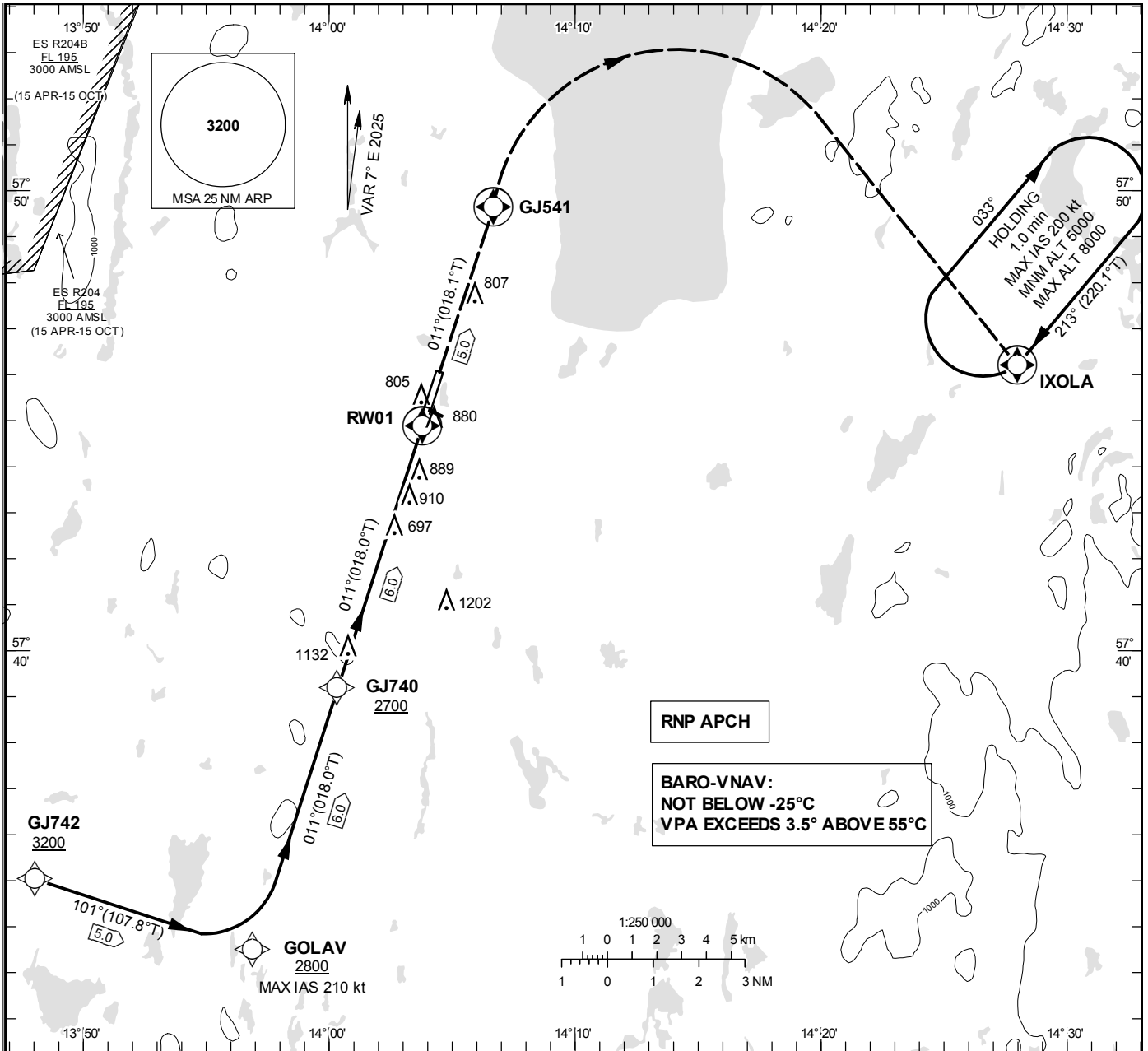
**INSTRUMENT
APPROACH
CHART – ICAO**

THR ELEV 734.3 ft, AD ELEV 742 ft
 OCH are related to THR.
 BRG are MAG (True).
 ALT, HGT and ELEV in ft.

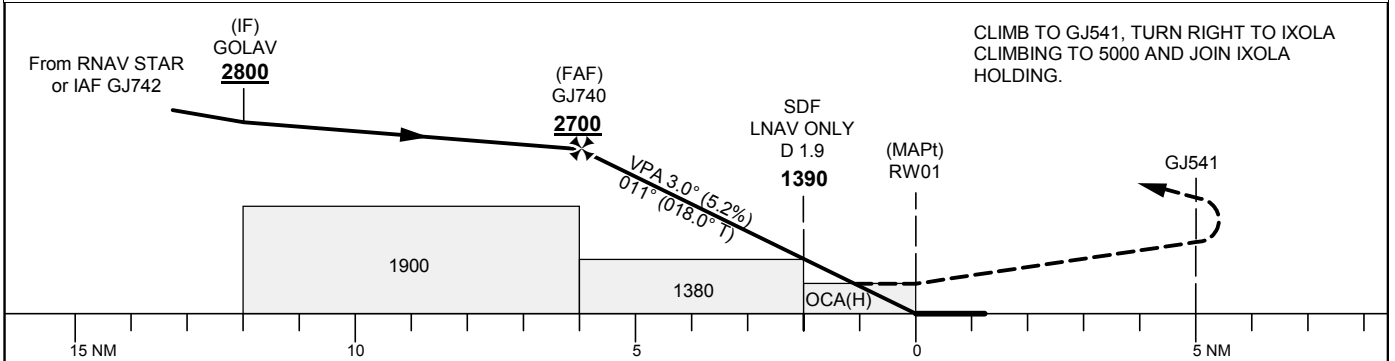
JÖNKÖPING TOWER 118.255

RNP RWY 01

EGNOS CH 69803 E 01A



TA 5000 ft AMSL RDH 50 ft



Cat of ACFT	OCA (H)				Final approach	Distance FAF-MAPt 6.0 NM						
	A	B	C	D	Dist to RW 01	6	5	4	3	2		
LPV	877(142)	886(151)	896(161)	908(173)	ALT	2700	2380	2060	1740	1420		
LNAV/VNAV	1019(285)	1032(298)	1040(306)	1050(316)	GS	kt	80	100	120	140	160	180
LNAV	1190(460)				Rate of descent	ft/min	425	530	635	745	850	955
Circling (MAX IAS 190 kt)	1210(470)	1270(530)	1600(860)	1600(860)								

RNP RWY 01

Instrument Approach Procedure via RNAV STAR DEVNI 4K / NEGAS 4K

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	GOLAV	-	-	-	-	+2800	-210*	-	-	RNP APCH
TF	GJ740	-	011°(018.0°)	6.0	-	+2700	-	-	-	RNP APCH
TF	RW01	Y	011°(018.0°)	6.0	-	@784	-	-3.0/50	-	RNP APCH
TF	GJ541	Y	011°(018.1°)	5.0	-	-	-	-	-	RNP APCH
DF	IXOLA	Y	-	-	R	+5000	-	-	-	RNP APCH

*speed restriction only valid for arrivals via NEGAS 4K

Instrument Approach Procedure via GJ742

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	GJ742	-	-	-	-	+3200	-	-	-	RNP APCH
TF	GOLAV	-	101°(107.8°)	5.0	-	+2800	-	-	-	RNP APCH
TF	GJ740	-	011°(018.0°)	6.0	L	+2700	-	-	-	RNP APCH
TF	RW01	Y	011°(018.0°)	6.0	-	@784	-	-3.0/50	-	RNP APCH
TF	GJ541	Y	011°(018.1°)	5.0	-	-	-	-	-	RNP APCH
DF	IXOLA	Y	-	-	R	+5000	-	-	-	RNP APCH

ESGJ Holding IXOLA

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
HM	IXOLA	Y	213°(220.1°)	-	R	+5000	-200	-	-	RNAV 1

FAS Data Block

RNP RWY 01

Input data

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	ESGJ
Runway	01
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E01A
LTP/FTP Latitude	574453.4800N
LTP/FTP Longitude	0140346.7555E
LTP/FTP Ellipsoidal Height (metres)	256.7
FPAP Latitude	574601.1885N
Delta FPAP Latitude (seconds)	67.7085
FPAP Longitude	0140428.0940E
Delta FPAP Longitude (seconds)	41.3385
Threshold Crossing Height	50.0
TCH Units Selector	0 (feet)
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	35.0

Output data

Data Block	10 0A 07 13 05 01 00 00 01 31 30 05 D0 67 C8 18 87 01 09 06 07 1E F9 10 02 F5 42 01 F4 01 2C 01 64 00 C8 AF 2D 0C 95 0F
Calculated CRC Value	2D0C950F

Required Additional Data

ICAO Code	ES
LTP/FTP Orthometric Height (metres)	223.8

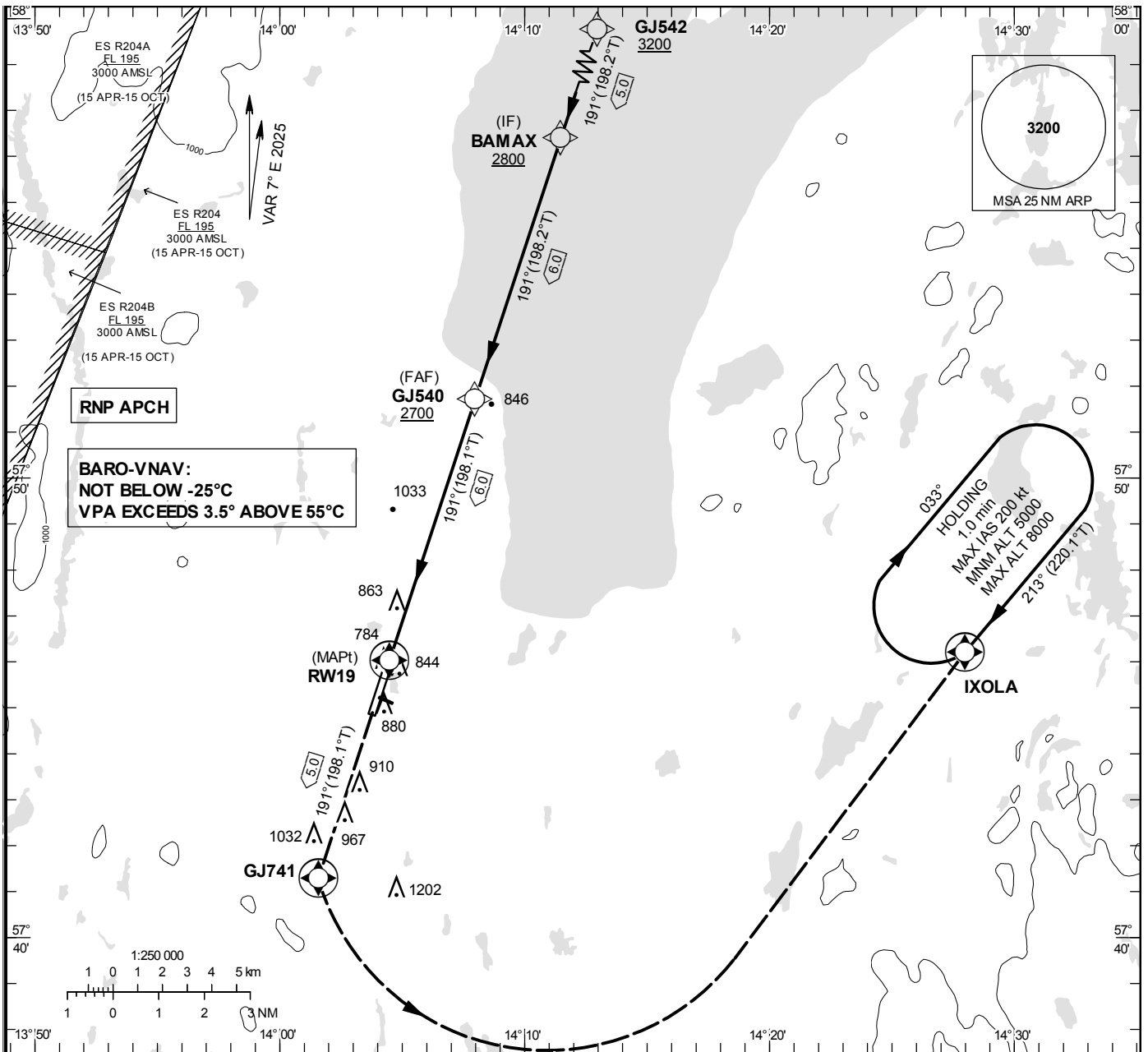
**INSTRUMENT
APPROACH
CHART – ICAO**

THR ELEV 739.1 ft, AD ELEV 742 ft
 OCH are related to THR.
 BRG are MAG (True).
 ALT, HGT and ELEV in ft.

JÖNKÖPING TOWER 118.255

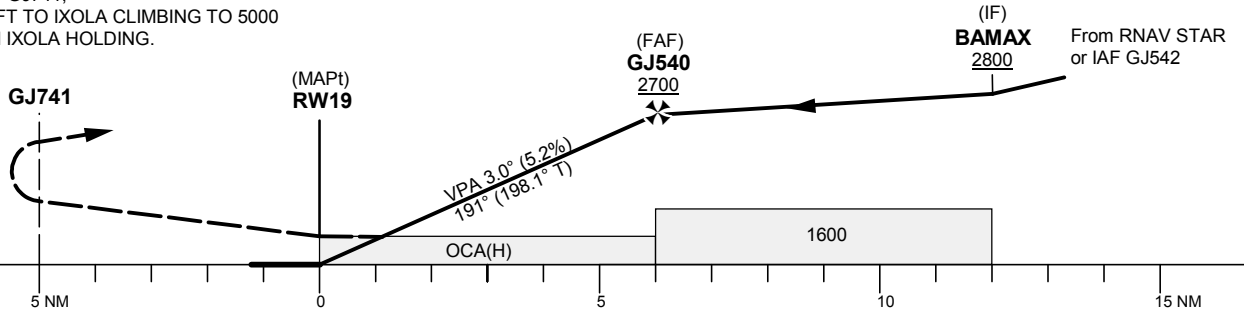
RNP RWY 19

EGNOS CH 71157 E 19A



TA 5000 ft AMSL RDH 50 ft

CLIMB TO GJ741,
 TURN LEFT TO IXOLA CLIMBING TO 5000
 AND JOIN IXOLA HOLDING.



Cat of ACFT	OCA (H)				Final approach Dist to RW 19	Distance FAF-MAPT 6.0 NM						
	A	B	C	D		6	5	4	3	2	1	
LPV	884(144)	892(152)	901(161)	910(170)	ALT	2700	2380	2060	1740	1430	1110	
LNAV/VNAV	993(254)	1005(266)	1013(274)	1024(285)	GS	kt	80	100	120	140	160	180
LNAV	1110(380)				Rate of descent	ft/min	425	530	635	745	850	955
Circling (MAX IAS 190kt)	1210(470)	1270(530)	1600(860)	1600(860)								

RNP RWY 19

Instrument Approach Procedure via RNAV STAR DEVNI 4L / NEGAS 4L

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	BAMAX	-	-	-	-	+2800	-210*	-	-	RNP APCH
TF	GJ540	-	191°(198.2°)	6.0	-	+2700	-	-	-	RNP APCH
TF	RW19	Y	191°(198.1°)	6.0	-	@788	-	-3.0/50	-	RNP APCH
TF	GJ741	Y	191°(198.1°)	5.0	-	-	-	-	-	RNP APCH
DF	IXOLA	Y	-	-	L	+5000	-	-	-	RNP APCH

*speed restriction only valid for arrivals via DEVNI 4L

Instrument Approach Procedure via GJ542

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	GJ542	-	-	-	-	+3200	-	-	-	RNP APCH
TF	BAMAX	-	191°(198.2°)	5.0	-	+2800	-	-	-	RNP APCH
TF	GJ540	-	191°(198.2°)	6.0	-	+2700	-	-	-	RNP APCH
TF	RW19	Y	191°(198.1°)	6.0	-	@788	-	-3.0/50	-	RNP APCH
TF	GJ741	Y	191°(198.1°)	5.0	-	-	-	-	-	RNP APCH
DF	IXOLA	Y	-	-	L	+5000	-	-	-	RNP APCH

ESGJ Holding IXOLA

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
HM	IXOLA	Y	213°(220.1°)	-	R	+5000	-200	-	-	RNAV 1

FAS Data Block

RNP RWY 19

Input data

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	ESGJ
Runway	19
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E19A
LTP/FTP Latitude	574601.1885N
LTP/FTP Longitude	0140428.0940E
LTP/FTP Ellipsoidal Height (metres)	258.1
FPAP Latitude	574452.1655N
Delta FPAP Latitude (seconds)	-69.0230
FPAP Longitude	0140345.9580E
Delta FPAP Longitude (seconds)	-42.1360
Threshold Crossing Height	50.0
TCH Units Selector	0 (feet)
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	35.0

Output data

Data Block	10 0A 07 13 05 13 00 00 01 39 31 05 C9 78 CA 18 7C 44 0A 06 15 1E C2 E4 FD D0 B6 FE F4 01 2C 01 64 00 C8 AF 09 4F 61 C8
Calculated CRC Value	094F61C8

Required Additional Data

ICAO Code	ES
LTP/FTP Orthometric Height (metres)	225.3

VISUAL APPROACH CHART - ICAO

1:250000
1 0 1 2 3 4 5 km
1 0 1 2 3 NM

AD ELEV 742 FEET

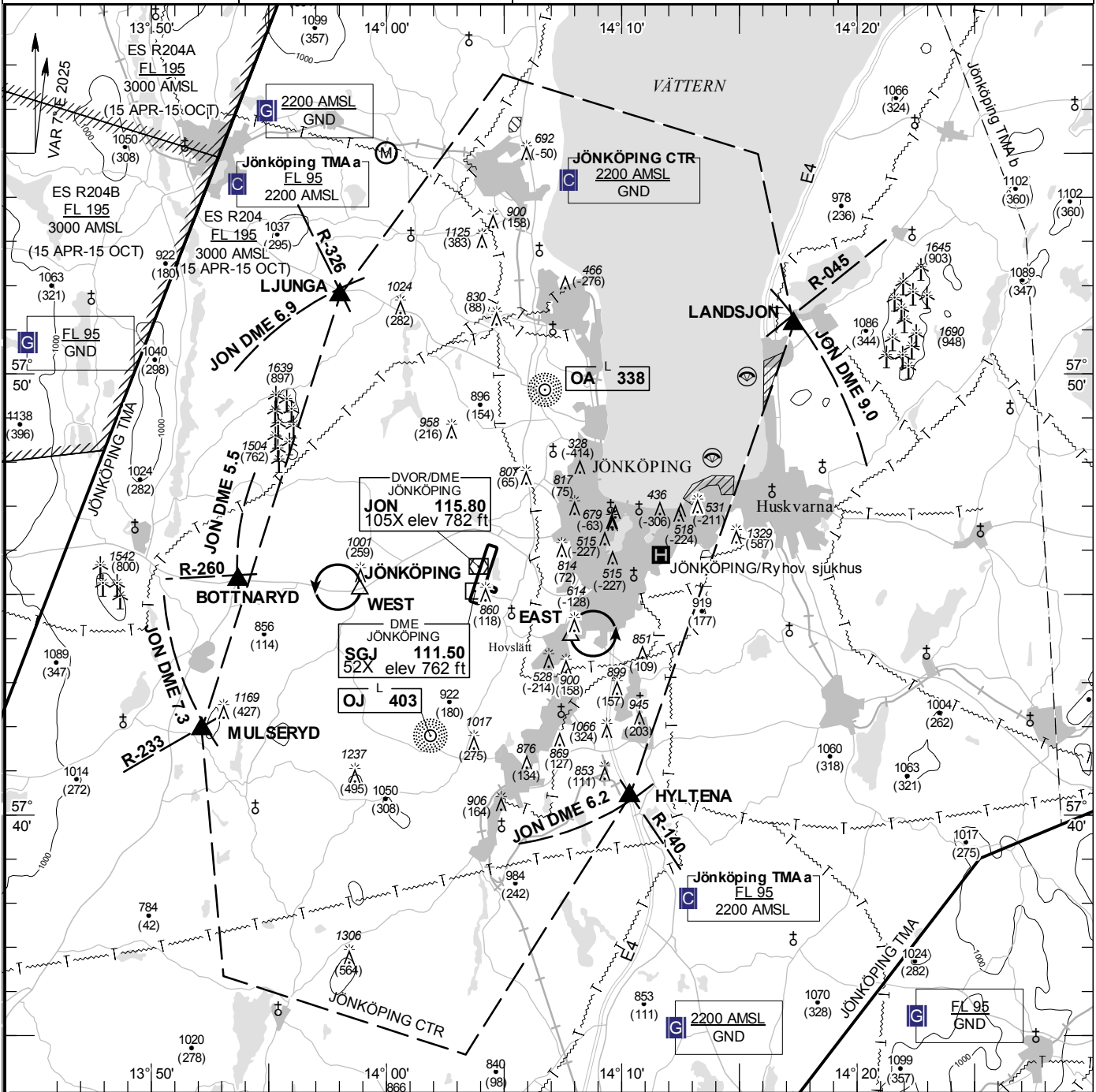
ELEV and ALT in ft
HGT in ft above AD ELEV

TA 5000 AMSL

JÖNKÖPING TOWER 118.255

AD 2 ESGJ 6-1

JÖNKÖPING SWEDEN



Communication failure

- 1 SQUAWK 7600
- 2 Enter CTR via BOTTNARYD – Holding WEST at or below 2200 ft AMSL to traffic circuit. Transmit blind your intentions.
- 3 Flash LDG-lights and watch TWR for optical signals.

RWY NR	THR ELEV	PAPI (MEHT)
01	734.3 ft	Left/3.00° (56 ft)
19	739.1 ft	Left/3.00° (60 ft)

Entry / exit point

LJUNGA	575146N 0135801E
LANDSJON	575107N 0141718E
HYLTENA	574025N 0141020E
MULSERYD	574156N 0135209E
BOTTNARYD	574519N 0135341E

Remark

Model flying area 500 ft GND
Paragliding area 500 ft GND

Minimum altitude in traffic circuit is 500 ft GND except west of RWY 01/19 during the period 1 MAR-30 SEP when minimum altitude is 700 ft GND.

Legend

See GEN 2.3

Holding

EAST: Hold at Hovslätt, east of railway, above five circle constructed buildings, east of point 574403N 0140750E
WEST: Hold at crossroad, west of point 574506N 0135851E

LFV

CHANGE: VAR

AIRAC AMDT 6/2024 **28 NOV 2024**

ESMQ 2.17 ATS AIRSPACE

1.	Designation and lateral limits	KALMAR CTR	565221N 0161228E - 564248N 0162617E - 563458N 0162934E - 563222N 0162028E - 563819N 0160849E - 564939N 0160251E - 565221N 0161228E
2.	Vertical limits	KALMAR CTR	1500 ft AMSL GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	KALMAR TOWER Swedish/English	
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	CTR established during hours of TWR.	

ESMQ 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR/APP	KALMAR TOWER	130.805	HO	Primary channel VDF.
		121.500	HO	VDF
		127.055	HX	VDF

ESMQ 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
LOC 16 ILS CAT I (6° E 2020)	MQ	108.70 MHz	H24	564034.0N 0161747.4E		556 m beyond THR 34 ILS Class I/E/2
GP		330.50 MHz	H24	564141.2N 0161651.0E		Angle 3.0° RDH 50.2 ft 320 m past THR 16 left side
VOR/DME (6° E 2020)	KAL	111.60 MHz	H24	564107.2N 0161702.8E	26 ft	200 m W ARP DME channel 53X
DME	MQ	108.70 MHz	H24	564141.3N 0161651.2E	13 ft	Poor DME coverage below 4000 ft AMSL beyond 17 NM. DME channel 24X

ESMQ 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. Minsta möjliga motoreffekt ska användas vid taxning på plattan.
2. Fordonstrafik utan dubbelriktad flygradioförbindelse kan förekomma utanför ATS öppethållning.

Vid flygning i CTR utanför ATS öppethållning ska blindsändning göras på 130.805.

Taxning med luftfartyg utanför ATS öppethållning får endast ske då sikten överstiger 500 m.

LOCAL TRAFFIC REGULATIONS

1. Engines shall be operated at minimum power required when taxiing on apron.
2. Vehicle movements without two way radio communication may occur outside ATS hours of operations.

When flying in CTR outside ATS hours of operations blind transmission should be made on 130.805.

Taxiing of aircraft outside ATS hours of operations is only allowed in visibility above 500 m.

ESMQ 2.21 MINSKNING AV BULLERSTÖRNING

Luftfartyg ska noggrant följa i klareringen angiven flygväg samt i övrigt framföras så att onödiga bullerstörningar inte försakas.

NOISE ABATEMENT PROCEDURES

Aircraft shall strictly adhere to the assigned route and be operated in such manner that unnecessary noise disturbances are not caused.

ESMQ 2.22 FLYGPROCEDURER

1. Flygvägar för ankommande och avgående trafik IFR
Se ESMQ 4-5 till ESMQ 4-20.

Väntlägen (Ref ENR 1.3 mom 9)
Väntlägen är upprättade enligt ESMQ 4-1.

2. Instrumentinflygningsprocedurerna får endast användas under ATS öppethållning.

3. Startprocedurer, omnidirectional

FLIGHT PROCEDURES

1. Arrival and departure routes IFR
See ESMQ 4-5 through ESMQ 4-20.

Holdings (Ref ENR para 1.3 mom 9)
Holdings are established accordance with ESMQ 4-1.

2. Instrument approach procedures may only be used during ATS hours of operation.

3. Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
16	Climb straight ahead to MNM turning ALT 500 ft AMSL. Continue climb to appropriate MSA.	Tree (CIO)	60	148°/2504
		Stack (Chimneys)	224	144°/5310
34	Climb straight ahead to MNM turning ALT 500 ft AMSL. Continue climb to appropriate MSA.	Tree (CIO)	142	337°/3234

4. Lägsta RVR för avgående trafik är 400 m.

5. Lågsiktsprocedurer (LVP) etablerade.

LVP träder i kraft när bansynvidden (RVR) är lägre än 550 m eller när molntäckeshöjden eller vertikalsikten är lägre än 200 ft.

Meddelande om att LVP är i kraft lämnas av ATS.

När LVP tillämpas tillåts endast ett luftfartyg eller fordon på manöverområdet.

När LVP tillämpas ska luftfartyg meddela lämnade av manöverområdet genom att anmäla framme på avsedd parkeringsplats.

6. VFR-flygning inom Kalmar TMA/CTR

Normala in- och utpasseringspunkter
Se ESMQ 6-1

Väntlägen
Se ESMQ 6-1

Avbrott i radioförbindelse
Se ESMQ 6-1

4. Minimum RVR for departing traffic is 400 m.

5. Low visibility procedures (LVP) established.

LVP will be in force when RVR is below 550 m or ceiling or vertical visibility is below 200 ft.

The application of LVP will be announced by ATS.

When LVP is applied only one aircraft or vehicles are allowed on the manoeuvring area.

When LVP is applied aircraft shall report RWY vacated at stand.

6. VFR flight within Kalmar TMA/CTR

Normal entry and exit points
See ESMQ 6-1

Holdings
See ESMQ 6-1

Communication failure
See ESMQ 6-1

ESMQ 2.23 ÖVRIG INFORMATION

Reducerad banseparation tillämpas på flygplatsen enligt AIP AD 1.1 mom 10.

ADDITIONAL INFORMATION

Reduced runway separation is applied at the aerodrome in accordance with AIP AD 1.1 para 10.

ESMQ 2.24 TILLHÖRANDE KARTOR

RELATED CHARTS

AD chart		ESMQ 2-1
AOC	RWY 16/34	ESMQ 3-1
Area chart	(TMA)	ESMQ 4-1
List of waypoints and significant points		ESMQ 4-3
SID	RWY 16	ESMQ 4-5
SID	RWY 34	ESMQ 4-7
STAR	RWY 16	ESMQ 4-9
STAR	RWY 34	ESMQ 4-11
SID RNP	RWY 16 LAGIS 1K, LATVI 1K, MOVIS 1K, TILSA 1K	ESMQ 4-13
SID RNP	RWY 34 LAGIS 1L, LATVI 1L, MOVIS 1L, TILSA 1L	ESMQ 4-15
STAR RNP	RWY 16 LAGIS 1S, LATVI 1S, MOVIS 1S, TILSA 1S	ESMQ 4-17
STAR RNP	RWY 34 LAGIS 1T, LATVI 1T, MOVIS 1T, TILSA 1T	ESMQ 4-19
ATC Surveillance Minimum ALT chart		ESMQ 4-91
IAC	ILS or LOC RWY 16	ESMQ 5-1
IAC	VOR RWY 34	ESMQ 5-2
IAC	RNP RWY 16	ESMQ 5-3
IAC	RNP RWY 34	ESMQ 5-7
VAC		ESMQ 6-1

List of waypoints and significant points at KALMAR (ESMQ)

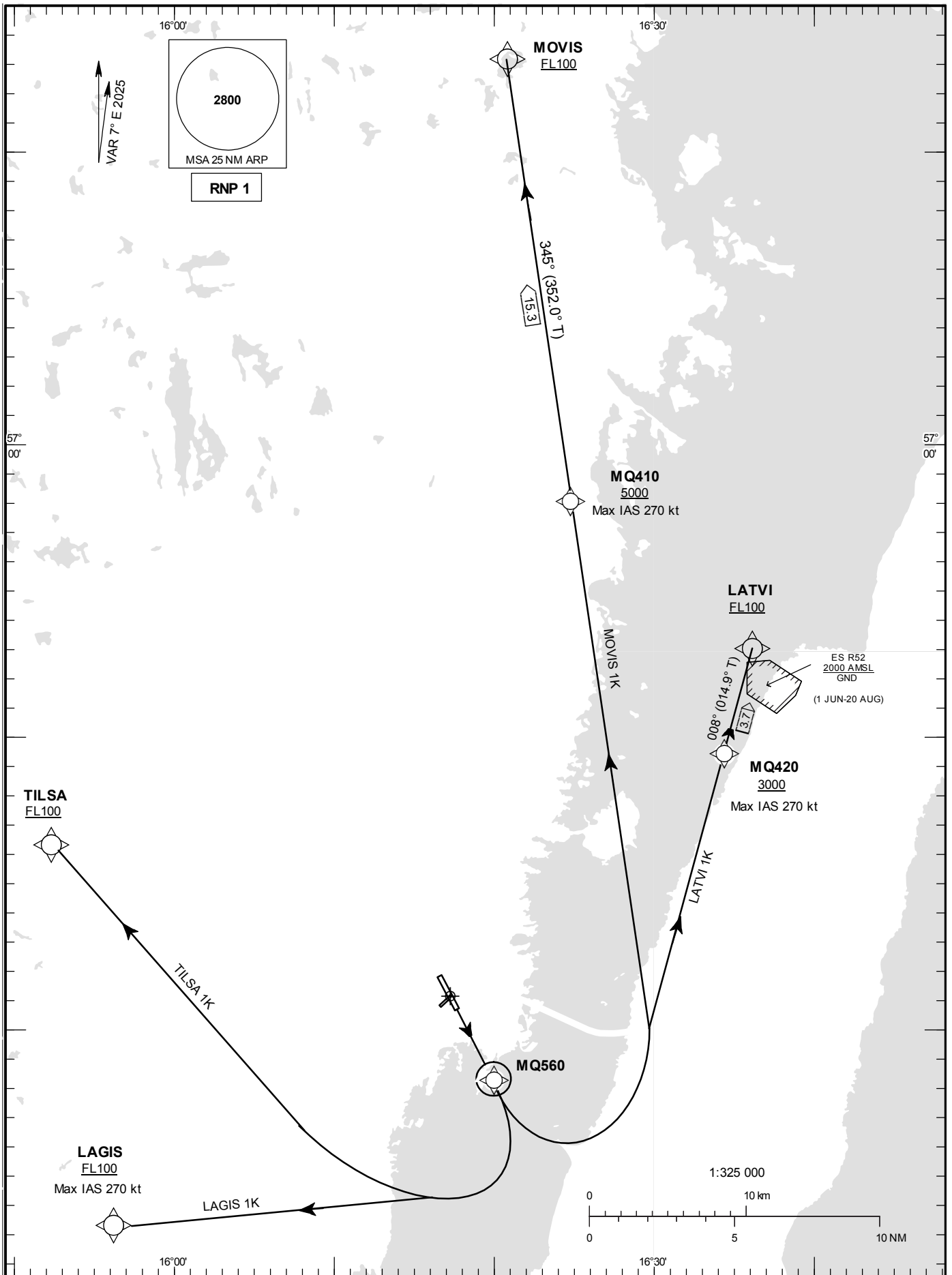
WPT	Coordinates	WPT	Coordinates
RW16	564148.55N 0161635.98E	MQ860	565822.5N 0161127.4E
RW34	564049.93N 0161732.19E	MQ870	564411.5N 0161418.7E
MQ410	565802.8N 0162445.7E	MQ880	565814.8N 0161645.8E
MQ420	564924.7N 0163423.1E	MQ900	564451.0N 0161341.3E
MQ430	565144.8N 0163111.4E	BEXAM	565037.9N 0160805.9E
MQ500	565800.9N 0162600.6E	DIXOT	562940.3N 0161758.9E
MQ510	565315.3N 0163041.3E	EMKAS	563819.0N 0160849.0E
MQ520	564903.6N 0163540.6E	GOPNI	562827.9N 0162919.3E
MQ550	563528.0N 0162239.9E	LAGIS	563317.8N 0155613.2E
MQ560	563816.3N 0161959.2E	LATVI	565301.0N 0163608.4E
MQ850	565134.4N 0160711.2E	MOVIS	571309.7N 0162050.1E
MQ851	565505.9N 0160345.9E	SULAX	563159.9N 0162557.9E
MQ852	564913.8N 0155908.9E	TESVI	563419.0N 0163357.9E
MQ853	565354.5N 0161514.4E	TILSA	564618.1N 0155218.6E
MQ854	564709.9N 0161126.9E		

STANDARD INSTRUMENT
DEPARTURE CHART (SID) -
ICAO

HGT and ALT in ft
BRG are MAG
TA 5000 ft AMSL

KALMAR TOWER 130.805

RNP RWY 16
LAGIS 1K, LATVI 1K, MOVIS 1K,
TILSA 1K.



RNP SID RWY 16 Coding tables and Notes

1. Operators unable to fly RNP 1 shall inform ATC "UNABLE RNP SID". Radar vectors or conventional SID will then be provided.
2. +FL100 altitude restriction at LAGIS, LATVI, MOVIS and TILSA are provided to stay within controlled airspace.
3. SID LAGIS 1K: MNM average climb gradient 9.8% required to reach LAGIS at FL100 and stay within controlled airspace.
4. SID LATVI 1K: MNM average climb gradient 8.2% required to reach LATVI at FL100 and stay within controlled airspace.
5. SID TILSA 1K: MNM average climb gradient 8.3% required to reach TILSA at FL100 and stay within controlled airspace.

LAGIS 1K

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
DF	MQ560	Y	-	-	-	-	-	-	-	RNP 1
DF	LAGIS	-	-	-	R	+FL100	-270	-	-	RNP 1

SID instruction: MQ560 – LAGIS (FL100 or above, Max IAS 270 kt)

LATVI 1K

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
DF	MQ560	Y	-	-	-	-	-	-	-	RNP 1
DF	MQ420	-	-	-	L	+3000	-270	-	-	RNP 1
TF	LATVI	-	008°(014.9°)	3.7	-	+FL100	-	-	-	RNP 1

SID instruction: MQ560 – MQ420 (3000 ft or above, Max IAS 270 kt) – LATVI (FL100 or above)

MOVIS 1K

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
DF	MQ560	Y	-	-	-	-	-	-	-	RNP 1
DF	MQ410	-	-	-	L	+5000	-270	-	-	RNP 1
TF	MOVIS	-	345°(352.0°)	15.3	-	+FL100	-	-	-	RNP 1

SID instruction: MQ560 – MQ410 (5000 ft or above, Max IAS 270 kt) – MOVIS (FL100 or above)

TILSA 1K

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
DF	MQ560	Y	-	-	-	-	-	-	-	RNP 1
DF	TILSA	-	-	-	R	+FL100	-	-	-	RNP 1

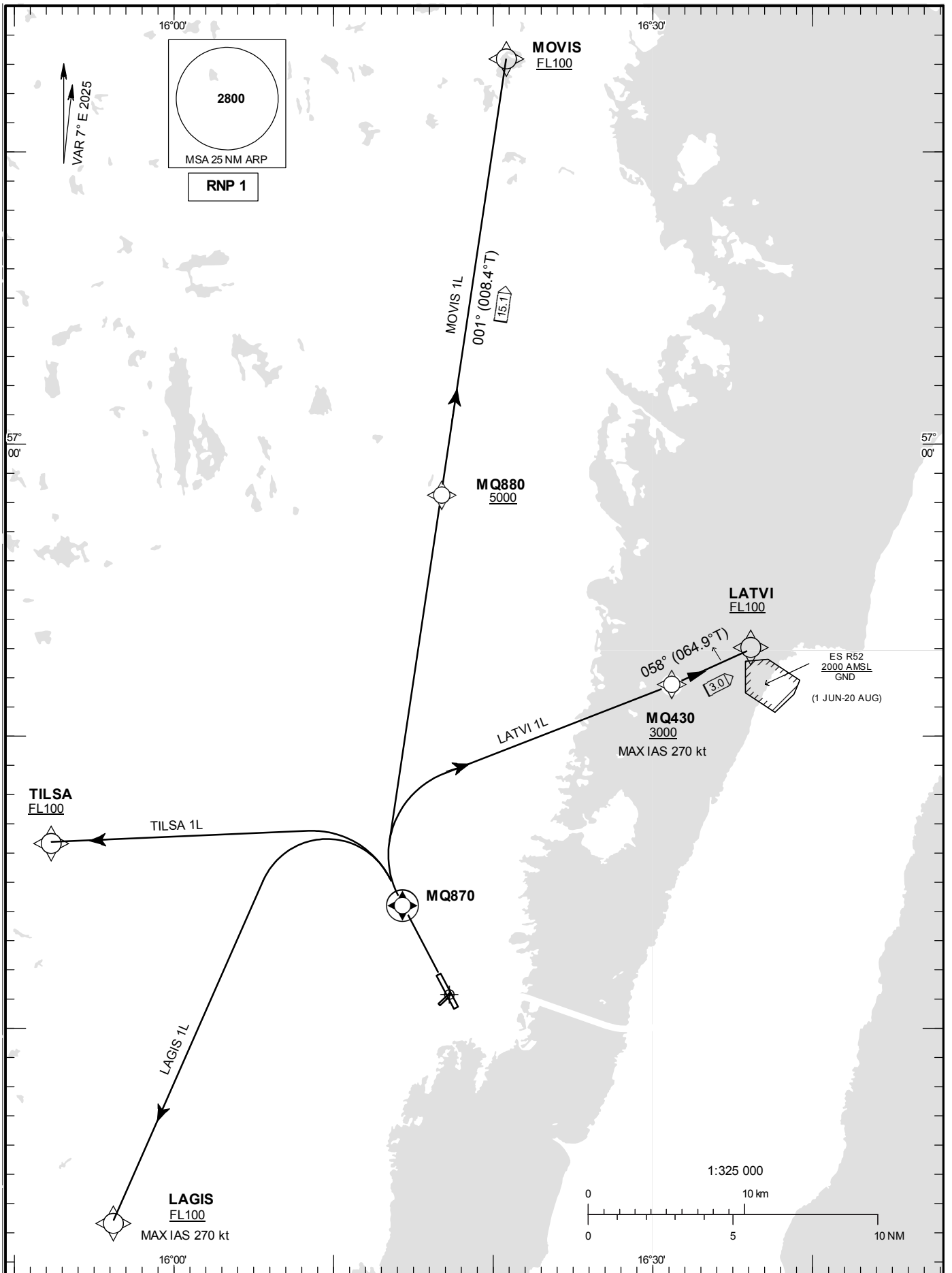
SID instruction: MQ560 – TILSA (FL100 or above)

STANDARD INSTRUMENT
DEPARTURE CHART (SID) -
ICAO

HGT and ALT in ft
BRG are MAG
TA 5000 ft AMSL

KALMAR TOWER 130.805

RNP RWY 34
LAGIS 1L, LATVI 1L, MOVIS 1L,
TILSA 1L.



RNP SID RWY 34 Coding tables and Notes

1. Operators unable to fly RNP 1 shall inform ATC "UNABLE RNP SID". Radar vectors or conventional SID will then be provided.
2. +FL100 altitude restriction at LAGIS, LATVI, MOVIS and TILSA are provided to stay within controlled airspace.
3. SID LAGIS 1L: MNM average climb gradient 9.4% required to reach LAGIS at FL100 and stay within controlled airspace.
4. SID LATVI 1L: MNM average climb gradient 9.3% required to reach LATVI at FL100 and stay within controlled airspace.
5. SID TILSA 1L: MNM average climb gradient 11.0% required to reach TILSA at FL100 and stay within controlled airspace.

LAGIS 1L

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
DF	MQ870	Y	-	-	-	-	-	-	-	RNP 1
DF	LAGIS	-	-	-	L	+FL100	-270	-	-	RNP 1

SID instruction: MQ870 – LAGIS (FL100 or above, Max IAS 270 kt)

LATVI 1L

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
DF	MQ870	Y	-	-	-	-	-	-	-	RNP 1
DF	MQ430	-	-	-	R	+3000	-270	-	-	RNP 1
TF	LATVI	-	058°(064.9°)	3.0	-	+FL100	-	-	-	RNP 1

SID instruction: MQ870 – MQ430 (3000 ft or above, Max IAS 270 kt) – LATVI (FL100 or above)

MOVIS 1L

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
DF	MQ870	Y	-	-	-	-	-	-	-	RNP 1
DF	MQ880	-	-	-	R	+5000	-	-	-	RNP 1
TF	MOVIS	-	001°(008.4°)	15.1	-	+FL100	-	-	-	RNP 1

SID instruction: MQ870 – MQ880 (5000 ft or above) – MOVIS (FL100 or above)

TILSA 1L

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
DF	MQ870	Y	-	-	-	-	-	-	-	RNP 1
DF	TILSA	-	-	-	L	+FL100	-	-	-	RNP 1

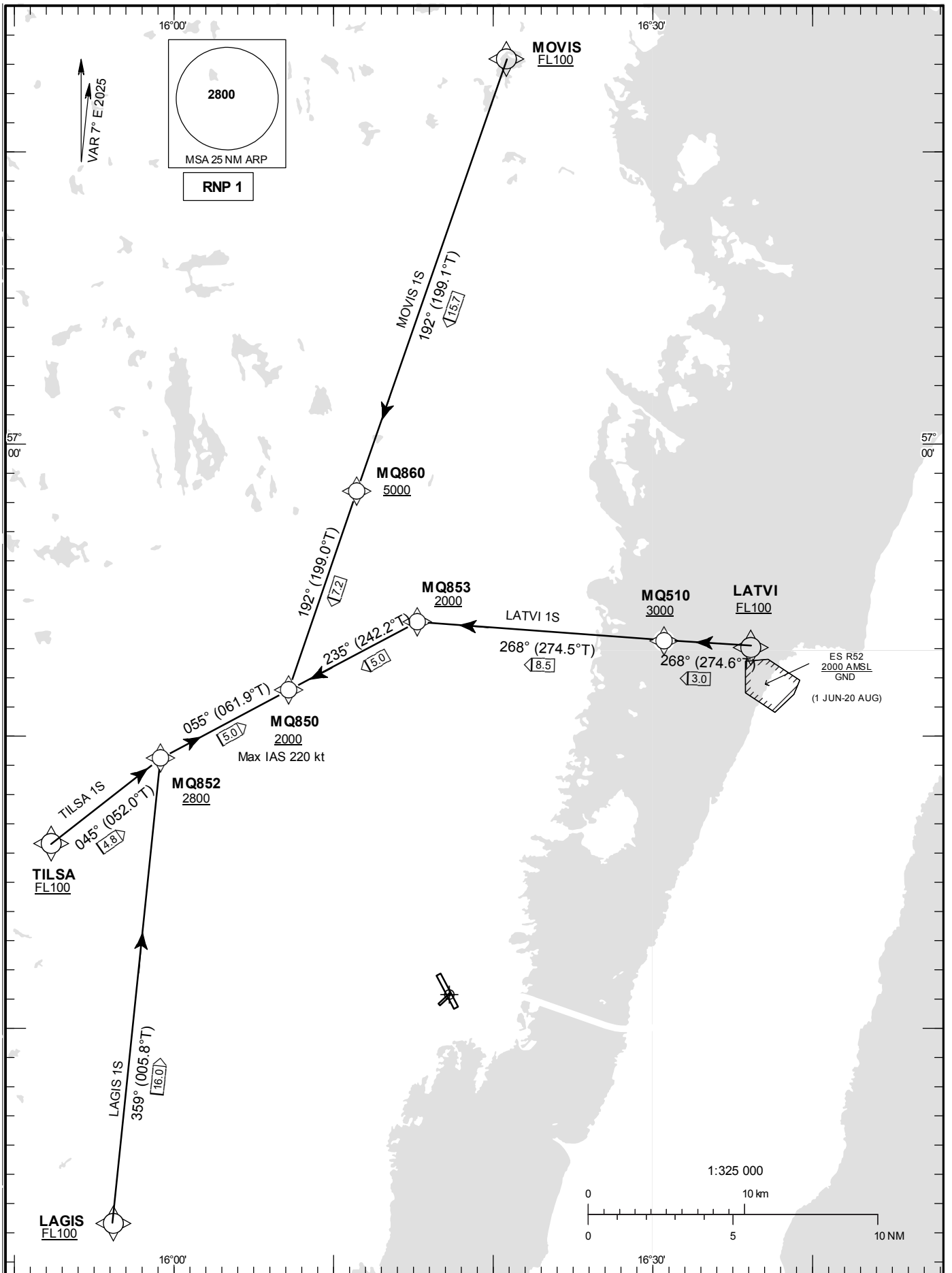
SID instruction: MQ870 – TILSA (FL100 or above)

STANDARD INSTRUMENT
ARRIVAL CHART (STAR) -
ICAO

HGT and ALT in ft
BRG are MAG
TA 5000 ft AMSL

KALMAR TOWER 130.805

RNP RWY 16
LAGIS 1S, LATVI 1S, MOVIS 1S,
TILSA 1S.



RNP STAR RWY 16 Coding tables and Notes

1. Operators unable to fly RNP 1 shall inform ATC "UNABLE RNP STAR". Radar vectors or conventional STAR will then be provided.
2. +FL100 altitude restriction at LAGIS, LATVI, MOVIS and TILSA are provided to stay within controlled airspace.
3. STAR LAGIS 1S: If LAGIS is passed at FL100, descent gradient on STAR (to MQ850) is 3.6° (6.3%).
4. STAR LATVI 1S: If LATVI is passed at FL100, descent gradient on STAR (to MQ850) is 4.6° (8.0%).
5. STAR MOVIS 1S: If MOVIS is passed at FL100, descent gradient on STAR (to MQ850) is 3.3° (5.8%).
6. STAR TILSA 1S: If TILSA is passed at FL100, descent gradient on STAR (to MQ850) is 7.7°(13.5%).

LAGIS 1S

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	LAGIS	-	-	-	-	+FL100	-	-	-	RNP 1
TF	MQ852	-	359°(005.8°)	16.0	-	+2800	-	-	-	RNP 1
TF	MQ850	-	055°(061.9°)	5.0	-	+2000	-220	-	-	RNP 1

STAR instruction: LAGIS (FL100 or above) – MQ852 (2800 ft or above) – MQ850 (2000 ft or above, Max IAS 220 kt)

LATVI 1S

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	LATVI	-	-	-	-	+FL100	-	-	-	RNP 1
TF	MQ510	-	268°(274.6°)	3.0	-	+3000	-	-	-	RNP 1
TF	MQ853	-	268°(274.5°)	8.5	-	+2000	-	-	-	RNP 1
TF	MQ850	-	235°(242.2°)	5.0	-	+2000	-220	-	-	RNP 1

STAR instruction: LATVI – MQ510 (3000 ft or above) – MQ853 (2000 ft or above) – MQ850 (2000 ft or above, Max IAS 220 kt)

MOVIS 1S

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	MOVIS	-	-	-	-	+FL100	-	-	-	RNP 1
TF	MQ860	-	192°(199.1°)	15.7	-	+5000	-	-	-	RNP 1
TF	MQ850	-	192°(199.0°)	7.2	-	+2000	-220	-	-	RNP 1

STAR instruction: MOVIS (FL100 or above) – MQ860 (5000 ft or above) – MQ850 (2000 ft or above, Max IAS 220 kt)

TILSA 1S

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	TILSA	-	-	-	-	+FL100	-	-	-	RNP 1
TF	MQ852	-	045°(052.0°)	4.8	-	+2800	-	-	-	RNP 1
TF	MQ850	-	055°(061.9°)	5.0	-	+2000	-220	-	-	RNP 1

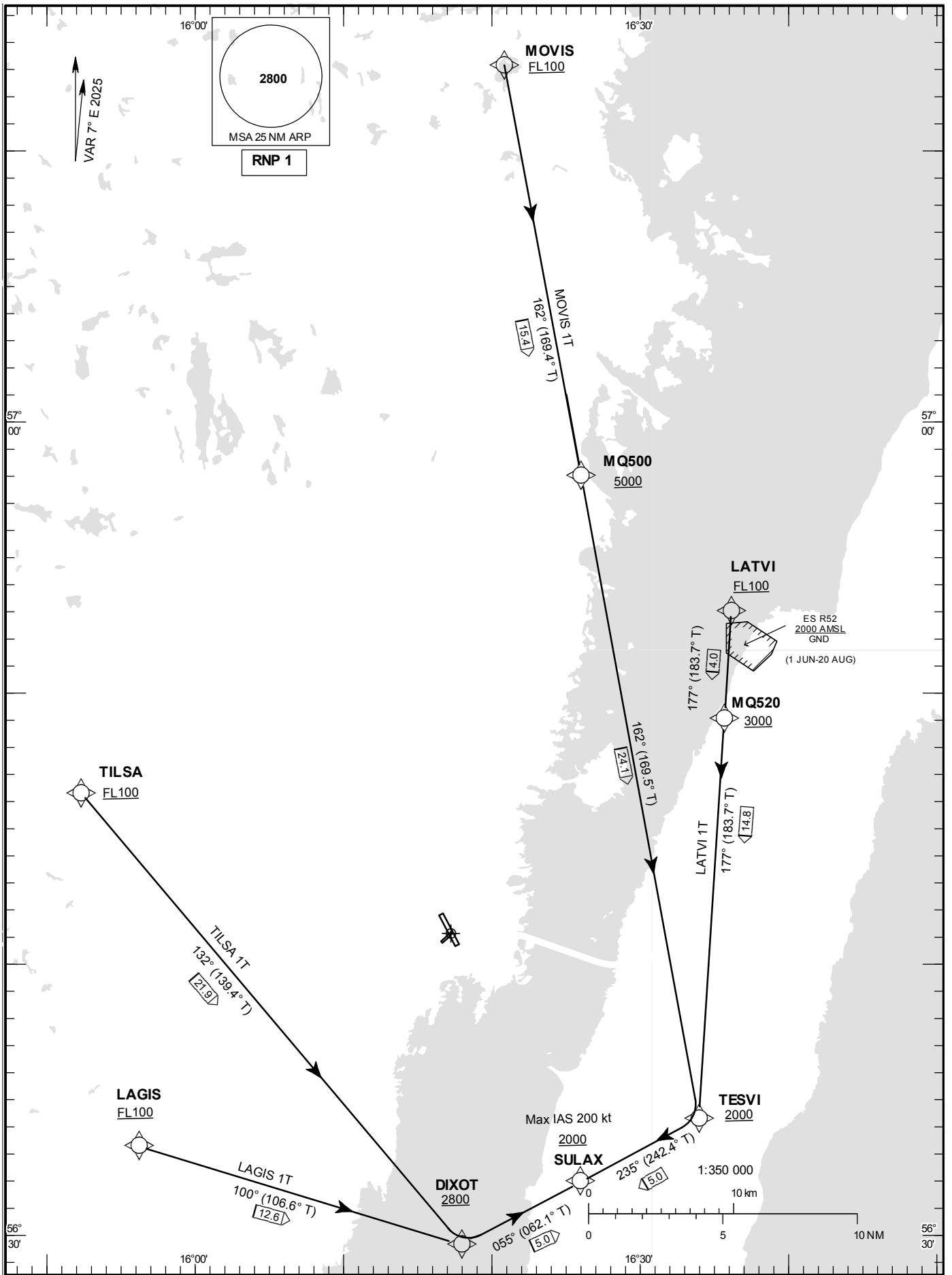
STAR instruction: TILSA (FL100 or above) – MQ852 (2800 ft or above) – MQ850 (2000 ft or above, Max IAS 220 kt)

STANDARD INSTRUMENT
ARRIVAL CHART (STAR) -
ICAO

HGT and ALT in ft
BRG are MAG
TA 5000 ft AMSL

KALMAR TOWER 130.805

RNP RWY 34
LAGIS 1T, LATVI 1T, MOVIS 1T,
TILSA 1T.



RNP STAR RWY 34 Coding tables and Notes

- Operators unable to fly RNP 1 shall inform ATC "UNABLE RNP STAR". Radar vectors or conventional STAR will then be provided.
- +FL100 altitude restriction at LAGIS, LATVI, MOVIS and TILSA are provided to stay within controlled airspace.
- STAR LAGIS 1T: If LAGIS is passed at FL100, descent gradient on STAR (to SULAX) is 4.3° (7.5%).
- STAR LATVI 1T: If LATVI is passed at FL100, descent gradient on STAR (to SULAX) is 3.2° (5.6%).

LAGIS 1T

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	LAGIS	-	-	-	-	+FL100	-	-	-	RNP 1
TF	DIXOT	-	100°(106.6°)	12.6	-	+2800	-	-	-	RNP 1
TF	SULAX	-	055°(062.1°)	5.0	-	+2000	-200	-	-	RNP 1

STAR instruction: LAGIS (FL100 or above) – DIXOT (2800 ft or above) – SULAX (2000 ft or above, Max IAS 200 kt)

LATVI 1T

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	LATVI	-	-	-	-	+FL100	-	-	-	RNP 1
TF	MQ520	-	177° (183.7°)	4.0	-	+3000	-	-	-	RNP 1
TF	TESVI	-	177°(183.7°)	14.8	-	+2000	-	-	-	RNP 1
TF	SULAX	-	235°(242.4°)	5.0	-	+2000	-200	-	-	RNP 1

STAR instruction: LATVI – MQ520 (3000 ft or above) – TESVI (2000 ft or above) – SULAX (2000 ft or above, Max IAS 200 kt)

MOVIS 1T

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	MOVIS	-	-	-	-	+FL100	-	-	-	RNP 1
TF	MQ500	-	162°(169.4°)	15.4	-	+5000	-	-	-	RNP 1
TF	TESVI	-	162°(169.5°)	24.1	-	+2000	-	-	-	RNP 1
TF	SULAX	-	235°(242.4°)	5.0	-	+2000	-200	-	-	RNP 1

STAR instruction: MOVIS (FL100 or above) – MQ500 (5000 ft or above) – TESVI (2000 ft or above) – SULAX (2000 ft or above, Max IAS 200 kt)

TILSA 1T

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	TILSA	-	-	-	-	+FL100	-	-	-	RNP 1
TF	DIXOT	-	132°(139.4°)	21.9	-	+2800	-	-	-	RNP 1
TF	SULAX	-	055°(062.1°)	5.0	-	+2000	-200	-	-	RNP 1

STAR instruction: TILSA (FL100 or above) – DIXOT (2800 ft or above) – SULAX (2000 ft or above, Max IAS 200 kt)

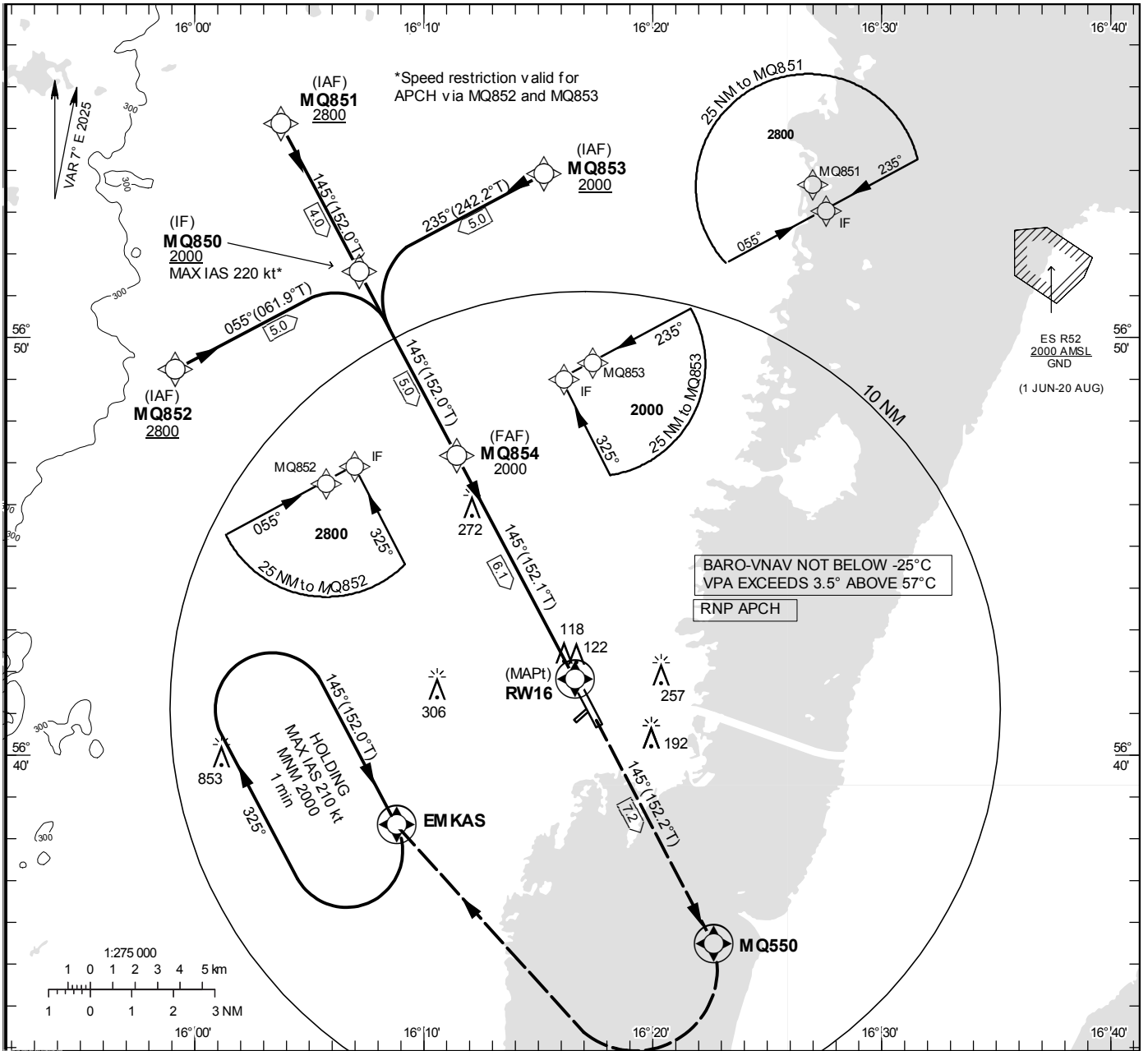
**INSTRUMENT
APPROACH
CHART – ICAO**

THR ELEV 18 ft, AD ELEV 18 ft
OCH are related to THR.
BRG are MAG (True).
ALT, HGT and ELEV in ft.

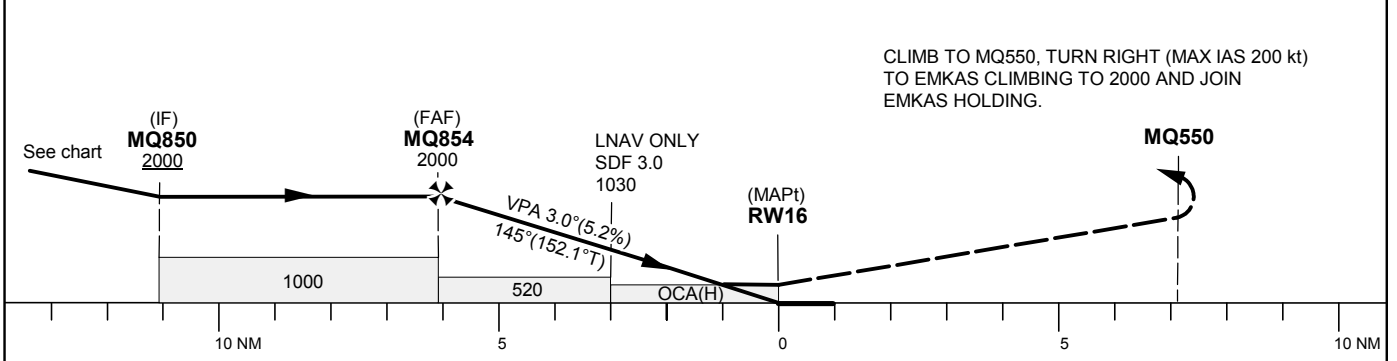
KALMAR TOWER 130.805

RNP RWY 16

EGNOS Ch 94400 E 16A



TA 5000 ft AMSL RDH 50 ft Circling MAX IAS 200 kt



Cat of ACFT	OCA (H)				Final approach Dist to RW16 (NM)	Distance FAF-MAPt 6.1 NM						
	A	B	C	D		6	5	4	3	2	1	
LPV	248(230)	260(242)	268(250)	279(261)	ALT	1980	1660	1340	1020	700	390	
LNAV/VNAV	253(235)	265(247)	273(255)	283(265)	GS	kt	80	100	120	140	160	180
LNAV	370 (360)				Rate of descent	ft/min	425	530	635	745	850	955
Circling	490(480)	560(550)	700(690)	700(690)								

RNP RWY 16 via MQ851

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	MQ851	-	-	-	-	+2800	-	-	-	RNP APCH
TF	MQ850	-	145°(152.0°)	4.0	-	+2000	-	-	-	RNP APCH

RNP RWY 16 via MQ852

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	MQ852	-	-	-	-	+2800	-	-	-	RNP APCH
TF	MQ850	-	055°(061.9°)	5.0	-	+2000	-220	-	-	RNP APCH

RNP RWY 16 via MQ853

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	MQ853	-	-	-	-	+2000	-	-	-	RNP APCH
TF	MQ850	-	235°(242.2°)	5.0	-	+2000	-220	-	-	RNP APCH

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	MQ850	-	-	-	-	+2000	-	-	-	RNP APCH
TF	MQ854	-	145°(152.0°)	5.0	-	@2000	-	-	-	RNPAPCH
TF	RW16	Y	145°(152.1°)	6.1	-	@68	-	-3.0/50	-	RNP APCH
TF	MQ550	Y	145°(152.2°)	7.2	-	-	-	-	-	RNP APCH
DF	EMKAS	Y	-	-	R	+2000	-200	-	-	RNP APCH

ESMQ Holding EMKAS

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
HM	EMKAS	Y	145°(152.0°)	-	R	+2000	-210	-	-	RNAV 1

Inputdata

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	ESMQ
Runway	16
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E16A
LTP/FTP Latitude	564148.5510N
LTP/FTP Longitude	0161635.9710E
LTP/FTP Ellipsoidal Height (metres)	35.9
FPAP Latitude	564042.7290N
Delta FPAP Latitude (seconds)	-65.8220
FPAP Longitude	0161739.0695E
Delta FPAP Longitude (seconds)	63.0985
Threshold Crossing Height	50.0
TCH Units Selector	0 (feet)
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	256
HAL (metres)	40.0
VAL (metres)	50.0

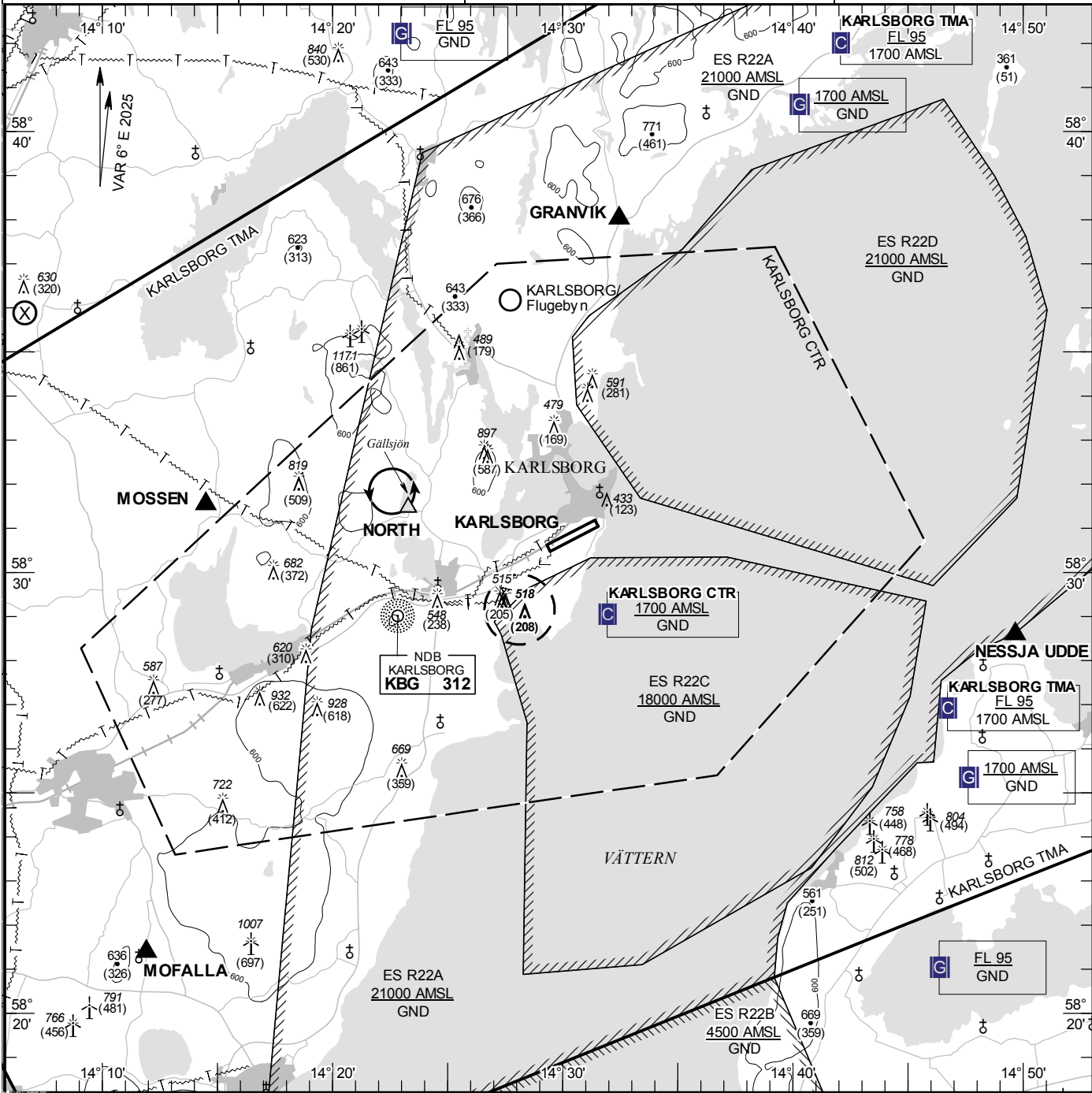
Outputdata

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Calculated CRC Value	FF117479

Required Additional Data

ICAOCode	ES
LTP/FTP Orthometric Height (metres)	5.5

VISUAL APPROACH CHART - ICAO 1:250000 	AD ELEV 310 FEET ELEV and ALT in ft HGT in ft above AD ELEV TA 5000 AMSL	KARLSBORG TOWER 133.000 132.050 KARLSBORG APPROACH 132.050	AD 2 ESIA 6-1 KARLSBORG SWEDEN
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Communication failure

Aircraft with Communication failure is not allowed to enter Karlsborg CTR. In case of Communication failure proceed to aerodrome outside Karlsborg CTR.

RWY	THR	PAPI
NR	ELEV	(MEHT)
06	307 ft	NIL
24	310 ft	NIL

Entry / exit point

GRANVIK	583801N 0143227E
NESSJA UDDE	582835N 0144939E
MOFALLA	582123N 0141155E
MOSSEN	583132N 0141430E

Remark

NIL

Legend

See GEN 2.3

Holding

NORTH: Hold over lake Gällsjön, north west of point 583127N 0142317E

AD 2 AERODROMES**ESOK 2.1 AERODROME LOCATION INDICATOR AND NAME****ESOK – KARLSTAD****ESOK 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

- | | | |
|----|--|---|
| 1. | ARP coordinates and site at AD | 592641N 0132015E RWY centre point |
| 2. | Direction and distance from (city) | NW 6.5 NM from Karlstad |
| 3. | Elevation/Reference temperature | 353 ft/+20.0°C |
| 4. | Geoid undulation at AD ELEV PSN | 104 ft |
| 5. | MAG VAR/Annual change | 5° E 2020/+0.2 increasing |
| 6. | Administration, address, telephone, fax, AFS | Karlstad Airport
SE-655 91 Karlstad
TEL: +46 (0)54 540 77 14
FAX: +46 (0)54 53 23 06
E-mail: karlstadairport@karlstad.se
AFS: ESOKZTZX
Website: www.ksdarprt.se |
| 7. | Types of traffic permitted (IFR/VFR) | IFR/VFR. Max RWY ref code 4E |
| 8. | Remarks | IFR traffic is only allowed when ATS is open.
HEMS RNP 3D approaches (LPV or LNAV/VNAV) and HEMS RNP departures allowed during all hours. |

ESOK 2.3 OPERATIONAL HOURS

- | | | |
|-----|---|---|
| 1. | AD Administration
AD Operating hours | MON-FRI 0700-1500 (0600-1400)
As ATS |
| 2. | Customs and immigration | O/R +46 (0)40 661 32 20 |
| 3. | Health and sanitation | - |
| 4. | AIS Briefing Office | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 5. | ATS Reporting Office (ARO) | As ATS |
| 6. | MET Briefing Office | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 7. | ATS | Ref AIP SUP/NOTAM or on request |
| 8. | Fuelling | As ATS |
| 9. | Handling | O/R |
| 10. | Security | O/R |
| 11. | De-Icing | O/R |
| 12. | Remarks | Increased charges outside TWR HR of OPS. For request e-mail: karlstadairport@karlstad.se during AD adm hours. |

ESOK 2.4 HANDLING SERVICES AND FACILITIES

1.	Cargo-handling facilities	Available O/R
2.	Fuel/oil types	Fuel Jet A1, 100LL Oil -
3.	Fuelling facilities/discharge capacity	Jet A1: 48,700 l fuel truck/stationary, additional capacity O/R 100LL: 20,000 l stationary
4.	De-icing facilities	Available, Type I and II
5.	Hangar space for visiting ACFT	Available, private
6.	Repair facilities for visiting ACFT	-
7.	Remarks	Fuel Jet A1 supplier Air BP. Service only to aircraft with contract; Air BP card or fuel release. Fuel 100LL supplier Air BP. All major credit cards are accepted for payment.

ESOK 2.5 PASSENGER FACILITIES

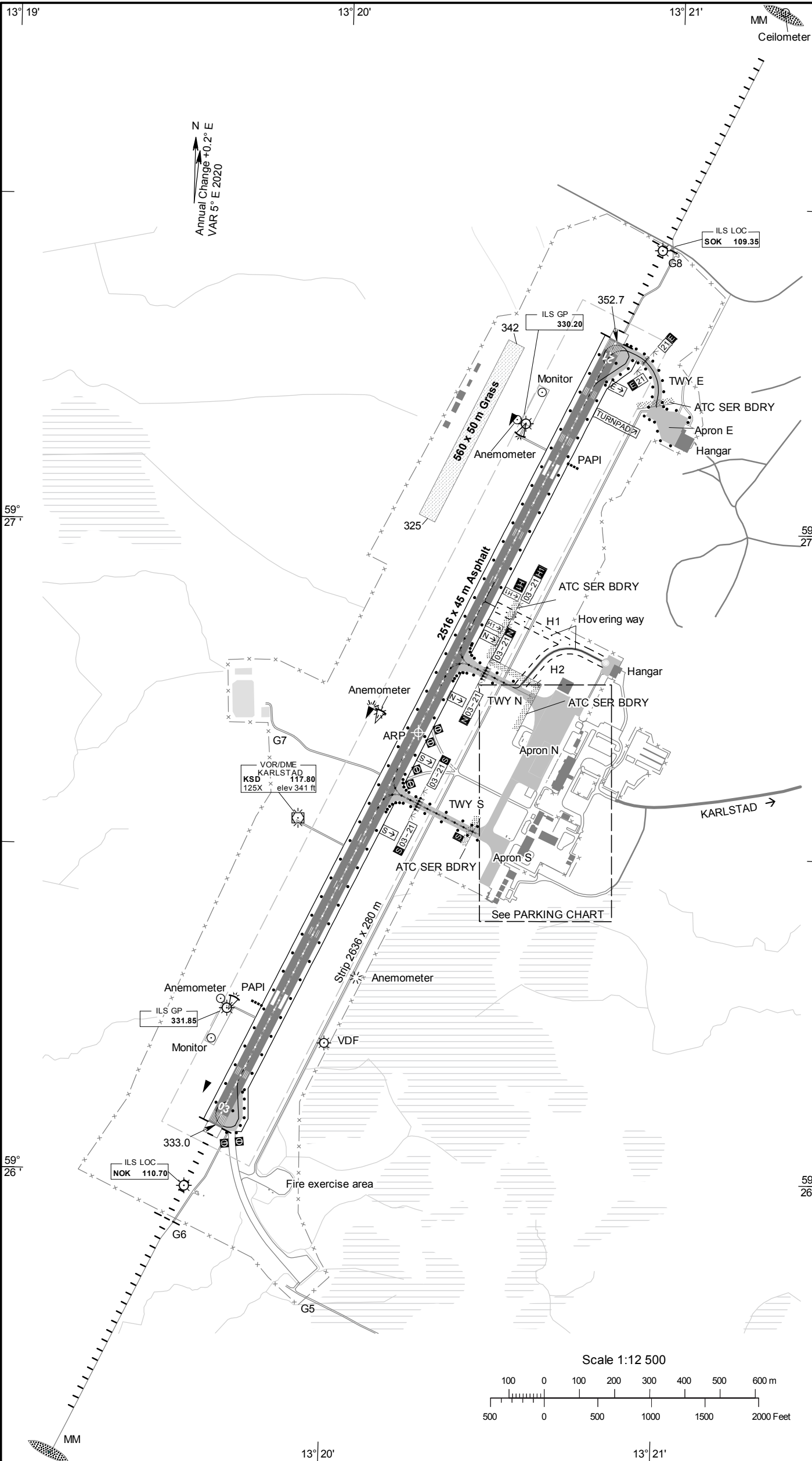
1.	Hotels	In Karlstad
2.	Restaurants	At AD
3.	Transportation	Buses, taxis, rental cars
4.	Medical facilities	In Karlstad
5.	Bank and Post Office	In Karlstad
6.	Tourist Office	In Karlstad
7.	Remarks	-

ESOK 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	CAT 6. Up to CAT 9 available O/R. RFFS level corresponds to the current aircraft specification.
2.	Rescue equipment	Available by arrangement
3.	Capability for removal of disabled aircraft	Available by arrangement, contact duty officer +46 (0)54 540 77 34
4.	Remarks	RFFS for non-commercial operations and specialized operations only available on request during ATS OP HR. 8 min PN for NON SKED Commercial Air Transport Operations TFC.

ESOK 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	Snowploughs, blowers, sweepers, spreaders
2.	Clearance priorities	RWY, TWY, Apron
3.	Remarks	RWY de-iced with SAND, KFOR/UREA TWY and apron de-iced with SAND

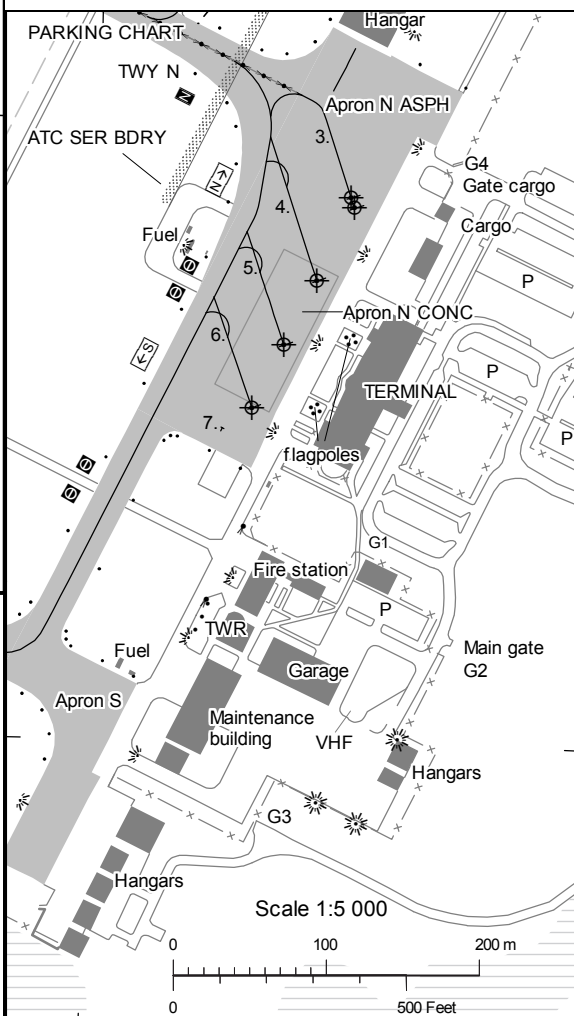


ARP 592641N 0132015E
AD ELEV 353 FEET
LEGEND See GEN 2.3
Dimensions in m, ELEV in ft

TWY NR	WIDTH	Surface Bearing strength	Day marking		Taxiway lighting	
			Centerline Holding	Edge	RGL	Stopbar
E	23 m	ASPH PCN 48 F/B/X/T	CL HLDG	EDGE	RGL	RGL
N	23 m	ASPH PCN 64 F/B/X/T	CL HLDG	EDGE CL	RGL STOPBAR	
S	23 m	ASPH PCN 41 F/B/X/T	CL HLDG	EDGE CL	RGL STOPBAR	

See PARKING CHART

ACL/INS Coordinates for Aircraft Stands			
APRON Surface Bearing strength	NR	COORD	ELEV
N ASPH ASPH PCN 58 F/B/X/T	3.1	592641.42N 0132040.66E	337
	3.2	592641.65N 0132040.51E	338
N CONC CONC PCN 38 R/B/X/T	4	592639.86N 0132039.18E	336
	5	592638.48N 0132037.86E	335
	6	592637.13N 0132036.61E	335
S ASPH PCN 35 F/B/X/T			
E ASPH PCN 43 F/B/X/T			



RWY NR	TRUE & MAG BRG	THR PSN Geoid undulation	Bearing Strength	THR ELEV and highest ELEV of TDZ of precision APCH RWY	Declared distances				Approach and runway lighting					
					TORA	TODA	ASDA	LDA	APCH	THR TRID TDZ	VASIS (MEHT)	RWY CL	Edge	End
03	025.65° GEO 021° MAG	592604.32N 0131939.95E GUND 104.3 ft	PCN 65 F/B/X/T	THR 333.0 ft TDZ 333 ft	2516	2516	2516	2516	Barrette CL Cat I 900 m LIL/LIH	THR Green	PAPI Left/3.00° (57.4 ft)	2516/30 m 0-1600 m white 1600-2200 m white/red 2200-2516 m red LIH	2516/60 m White Caution zone 600 m yellow LIL/LIH	Red
21	205.67° GEO 201° MAG	592717.61N 0132049.08E GUND 104.1 ft	PCN 65 F/B/X/T	THR 352.7 ft TDZ 353 ft	2516	2516	2516	2516	Barrette CL Cat I 900 m LIL/LIH	THR Green	PAPI Left/3.00° (57.4 ft)	2516/30 m 0-1600 m white 1600-2200 m white/red 2200-2516 m red LIH	2516/60 m White Caution zone 600 m yellow LIL/LIH	Red

AD 2 AERODROMES

ESNQ 2.1 AERODROME LOCATION INDICATOR AND NAME

ESNQ – KIRUNA

ESNQ 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

- | | | |
|----|--|---|
| 1. | ARP coordinates and site at AD | 674917N 0202008E BRG 033.7° GEO 1150 m from THR 03 |
| 2. | Direction and distance from (city) | SE 2 NM from Kiruna |
| 3. | Elevation/Reference temperature | 1509 ft/+19.7°C |
| 4. | Geoid undulation at AD ELEV PSN | 98 ft |
| 5. | MAG VAR/Annual change | 10° E 2020/+0.2 increasing |
| 6. | Administration, address, telephone, fax, AFS | Swedavia AB
Kiruna Airport
Box 831
SE-981 28 Kiruna
TEL: +46 (0)10 109 46 00
FAX: +46 (0)10 109 46 50
E-mail: krn.groundhandling@swedavia.se
AFS: ESNQZTZX
Website: www.swedavia.se/kiruna, www.swedavia.net/airport/kiruna |
| 7. | Types of traffic permitted (IFR/VFR) | IFR/VFR. Max RWY ref code 4D |
| 8. | Remarks | PPR for all aircraft with MTOM exceeding 18 000 kg. Request shall be made during AD Administration hours to krn.groundhandling@swedavia.se. |

ESNQ 2.3 OPERATIONAL HOURS

- | | | |
|-----|---|---|
| 1. | AD Administration
AD Operating hours | MON-FRI 0800-1600 (0700-1500)
Ref AIP SUP/NOTAM |
| 2. | Customs and immigration | O/R +46 (0)8 456 66 20, kcgs.vb@tullverket.se |
| 3. | Health and sanitation | - |
| 4. | AIS Briefing Office | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 5. | ATS Reporting Office (ARO) | FPC H24 |
| 6. | MET Briefing Office | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 7. | ATS | TWR opens 15 min prior AD operating hours.
Closes as AD operating hours. |
| 8. | Fuelling | As AD HR of OPS |
| 9. | Handling | For scheduled flights. Other O/R |
| 10. | Security | Screening and CSRA for scheduled flights,
other O/R |
| 11. | De-icing | For scheduled flights, other O/R |
| 12. | Remarks | Increased charges outside AD HR of OPS (AD OPR HRS EXT D)
PPR required for operations outside AD operational hours (AD CLSD)
subject to a signed agreement. Applications shall be submitted during
AD Administration hours to krn.safety@swedavia.se . |

ESNQ 2.4 HANDLING SERVICES AND FACILITIES

1.	Cargo-handling facilities	Available
2.	Fuel/oil types	Fuel Jet A1 Oil -
3.	Fuelling facilities/discharge capacity	Jet A1: 200,000 l fuel truck/stationary
4.	De-icing facilities	Available, Type I and II, mobile unit
5.	Hangar space for visiting ACFT	Available up to B747-400
6.	Repair facilities for visiting ACFT	Limited
7.	Remarks	Fuel on Shell (fuel and fly or carnet) and major credit cards. Towing by towbar, limited availability of towbars.

ESNQ 2.5 PASSENGER FACILITIES

1.	Hotels	In Kiruna
2.	Restaurants	At AD (only for departing passengers other O/R)
3.	Transportation	Buses, taxis, rental cars
4.	Medical facilities	In Kiruna
5.	Bank and Post Office	In Kiruna
6.	Tourist Office	In Kiruna
7.	Remarks	-

ESNQ 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	CAT 5. CAT 6 for SKED TFC other O/R
2.	Rescue equipment	Tracked vehicle
3.	Capability for removal of disabled aircraft	By arrangement. On-the-scene commander during AD Operating hours. TEL: +46 (0)72 387 38 69.
4.	Remarks	-

ESNQ 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	Snowploughs, sweepers, blowers, slingers
2.	Clearance priorities	RWY, TWY, Apron
3.	Remarks	AD uses frozen SAND for treatment of RWY. RWY 03/21 approved (by the Swedish Transport Agency) for reporting specially prepared winter runway. For more information contact krn.safety@swedavia.se.

ESNQ 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	Apron surface and strength	Apron Hangar 2 ASPH PCN 47 F/B/X/T Apron Arena ASPH ASPH PCN 53 F/B/X/T Apron Arena CONC CONC PCN 49 R/B/X/T Apron Terminal ASPH ASPH PCN 45 F/B/X/T Apron Terminal CONC CONC PCN 54 R/B/X/T
2.	Taxiway width, surface and strength	TWY A 23 m ASPH PCN 50 F/B/X/T TWY B 23 m ASPH PCN 51 F/B/X/T TWY Y 23 m ASPH PCN 41 F/B/X/T
3.	ACL, location and elevation	-
4.	VOR checkpoints	-
5.	INS checkpoints	See ESNQ 2-3
6.	Remarks	TWY Y ref Code C wingspan < 36 m

ESNQ 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of ACFT stands	Taxi guide lines and signs. Marshalling and follow-me service available.
2.	RWY and TWY markings and LGT	RWY 03/21: Designator, THR, TDZ, CL and edges are day marked. RTHL, REDL, RENL. TWY A: CL, HLDG day marked. Edge lights, RGL. B: CL, HLDG day marked. Edge lights, RGL. Y: CL day marked. Edge lights.
3.	Stop bars	-
4.	Remarks	In absence of visual aids (markings) taxiing to stand positions shall be done by marshalling hand signals. In addition to marshalling hand signals, follow-me service may be used.

ESNQ 2.10 AERODROME OBSTACLES

In Area 2					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT in feet	Markings/ Type, colour	Remarks
a	b	c	d	e	f
ESNQ1	Sign	674847.1N 0201906.8E	1518 / -	-	-
ESNQ2	Shrub	674840.6N 0201855.7E	1529 / -	-	-
ESNQ3	LOC	674834.1N 0201851.2E	1540 / -	-	-
ESNQ4	Shrub	674834.4N 0201838.8E	1546 / -	-	-
ESNQ5	Shrub	674832.2N 0201838.0E	1549 / -	-	-
ESNQ6	Forest	674820.0N 0201844.7E	1567 / -	-	-
ESNQ7	Forest	674813.0N 0201838.2E	1580 / -	-	-
ESNQ8	Forest	674749.5N 0201749.4E	1621 / -	-	-
ESNQ9	Forest	674751.2N 0201735.0E	1629 / -	-	-
ESNQ10	Forest	674753.6N 0201724.2E	1640 / -	-	-
ESNQ11	Forest	674742.8N 0201748.6E	1649 / -	-	-
ESNQ12	Forest	674740.7N 0201756.0E	1654 / -	-	-
ESNQ13	Forest	674737.0N 0201750.2E	1664 / -	-	-
ESNQ14	Forest	674739.3N 0201704.4E	1673 / -	-	-
ESNQ15	Forest	674734.2N 0201712.4E	1677 / -	-	-
ESNQ16	Forest	674734.2N 0201704.7E	1681 / -	-	-
ESNQ17	Forest	674730.3N 0201717.4E	1686 / -	-	-
ESNQ18	Forest	674730.2N 0201714.6E	1691 / -	-	-

In Area 3					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
Not available					

ESNQ 2.17 ATS AIRSPACE

- | | | | |
|----|-----------------------------------|--------------------------------------|---|
| 1. | Designation and lateral limits | KIRUNA CTR | 680054N 0202744E - 675754N 0204244E -
674625N 0203344E - 673725N 0201444E -
674025N 0195844E - 675154N 0200704E -
680054N 0202744E |
| 2. | Vertical limits | KIRUNA CTR | 3100 ft AMSL
<hr style="width: 50%; margin: 0 auto;"/> GND |
| 3. | Airspace classification | C | |
| 4. | ATS unit call sign
Language(s) | KIRUNA TOWER
Swedish/English | |
| 5. | Transition altitude | 6000 ft AMSL | |
| 6. | Remarks | CTR established during hours of TWR. | |

ESNQ 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	KIRUNA TOWER	130.155	HO	Primary channel LRG
		121.500	HO	-
		122.100	HX	By directive from ATS
		121.775	HO	De-icing

ESNQ 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
LOC 21 ILS CAT I (10° E 2020)	NQ	110.30 MHz	H24	674833.8N 0201852.4E		439 m beyond THR 03 ILS Class I/E/2
GP		335.00 MHz	H24	674942.1N 0202105.2E		Angle 3.0° RDH 58.5 ft 315 m past THR 21 left side During winter angle may vary btn 3.00° and 3.25° due to snow
L 21	OP	360 kHz	H24	675314.9N 0202709.9E		Range 40 NM
DVOR/DME (10° E 2020)	KRA	115.20 MHz	H24	674909.3N 0202015.3E	1505 ft	DME channel 99X
DME	NQ	110.30 MHz	H24	674942.0N 0202105.6E	1469 ft	DME channel 40X

ESNQ 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. Klarering för uttaxning

LOCAL TRAFFIC REGULATIONS

1. Clearance at gate

Alla luftfartyg ska begära start-up från ATC. Klarering lämnas på begäran före begäran om start-up. Klareringen utfärdas för gällande bana och tillämplig SID eller utpasseringspunkt ur TMA.

2. Föreskrifter vid taxning på TWY Y

Maximalt vingspann 36 m för taxning på TWY Y. Avisning av luftfartyg med större vingspann än 36 m ska kontakta TWR för särskilda instruktioner.

3. Föreskrifter för taxning och bogsering

Vid taxning eller bogsering ska luftfartygets antikollisions- och positionsljus (om sådana finns) vara påslagna.

4. Föreskrifter för markrörelser

Minsta möjliga motoreffekt ska användas vid taxning på platta Terminal, Hangar 2 och Arena. Försiktighet ska vidtas när man svänger runt på plattorna. Se upp för passagerare på plattorna.

All aircraft shall request start-up from ATC. ATC clearance will be delivered on request prior to start-up. Such clearance will be issued for RWY in use, appropriate SID or TMA exit point.

2. Taxi regulations on TWY Y

Maximum wingspan 36 m for taxiing on TWY Y. De-icing of aircraft with larger wingspan than 36 m shall contact TWR for special instructions.

3. Taxiing and towing regulations

When taxiing or towing, the aircraft's anti-collision and position lights (if equipped) shall be turned on.

4. Ground movement procedures

Engines shall be operated at minimum power required when taxiing on Apron Terminal, Hangar 2 and Arena. Caution advised when turning around on aprons. Watch out for passengers on aprons.

ESNQ 2.21 MINSKNING AV BULLERSTÖRNING

IFR som gör visuell inflygning, VA, ska i möjligaste mån undvika överflygning av Kiruna tätort.

NOISE ABATEMENT PROCEDURES

IFR making visual approach, VA, should if possible, avoid flying overhead Kiruna City.

ESNQ 2.22 FLYGPROCEDURER

1. Ankommande IFR-trafik inom Kiruna TMA/CTR

Flygvägar

Flygvägar för ankommande trafik är upprättade enligt ESNQ 4–5 till ESNQ 4–12.

2. Avgående IFR-trafik inom Kiruna TMA/CTR

Flygvägar

Flygvägar för avgående trafik är upprättade enligt ESNQ 4–9 till ESNQ 4–12.

Vid RVR understigande 350 m är start inte tillåten.

3. Startprocedurer, omnidirectional

FLIGHT PROCEDURES

1. Inbound IFR traffic within Kiruna TMA/CTR

Routes

Arrival routes are established in accordance with ESNQ 4–5 through ESNQ 4–12.

2. Outbound IFR traffic within Kiruna TMA/CTR

Routes

Departure routes are established in accordance with ESNQ 4–9 through ESNQ 4–12.

When RVR is below 350 m TKOF is not permitted.

3. Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
03	Climb straight ahead to MNM turning ALT 2800 ft. Continue climb to appropriate MSA.			
21	Climb straight ahead to MNM turning ALT 2800 ft. Continue climb to appropriate MSA.			

4. Avbrott i radioförbindelse

Luftfartyg skall följa de föreskrifter som anges i AIP ENR 1.3 mom 10. Under IMC gäller dessutom följande för ankommande luftfartyg.

4.1 Avbruten inflygning vid radiobortfall

Flygplan med RNAV-kapacitet:

4. Communication failure

Aircraft shall adhere to the procedures stipulated in AIP ENR 1.3 para 10. In addition, in IMC the relevant procedures below shall be applied by inbound aircraft.

4.1 Missed approach in case of communication failure

ACFT with RNAV capability:

RWY 03	Climb straight ahead to NQ532, turn right (Max IAS 230 kt) to KRA climbing to 4500 ft. At KRA turn left and proceed to NQ703 for a normal instrument approach.
RWY 21	Climb straight ahead to 4000 ft. Turn left (Max IAS 230 kt) to KRA climbing to 4500 ft. At KRA turn right and proceed to NQ529 for a normal instrument approach.

Flygplan utan RNAV-kapacitet:

Följ publicerad procedur för avbruten inflygning. Utför därefter normal instrumentinflygning till bana i användning.

5. Lågsiktsprocedurer (LVP) etablerade

LVP träder i kraft när bansynvidden (RVR) underskrider 550 m eller när molntäckeshöjden eller vertikalsikten är lägre än 200 ft.

Meddelande om att LVP är i kraft lämnas av ATS med frasen "low visibility procedures in operation".

När LVP tillämpas tillåts endast fordon alternativt ett luftfartyg på manöverområdet.

När LVP tillämpas skall ACFT meddela när det lämnat banan och befinner sig på tilldelad uppställningsplats på plattan.

6. VFR-flygning inom Kiruna TMA/CTR

Normala in- och utpasseringspunkter
Se ESNQ 6-1

Väntlägen
Se ESNQ 6-1

Avbrott i radioförbindelse
Se ESNQ 6-1

ACFT without RNAV capability:

Follow published missed approach procedure. Then carry out a normal instrument approach to the runway-in-use.

5. Low visibility procedures (LVP) established

LVP will be in force when runway visual range (RVR) falls below 550 m or when ceiling or vertical visibility is below 200 ft.

The application of LVP will be announced by ATS with the phrase "low visibility procedures in operation".

When LVP is applied vehicles or only one aircraft is allowed in the manoeuvring area.

When LVP is applied ACFT shall report RWY vacated at stand on apron.

6. VFR flight within Kiruna TMA/CTR

Normal entry and exit points
See ESNQ 6-1

Holdings
See ESNQ 6-1

Communication failure
See ESNQ 6-1

ESNQ 2.23 ÖVRIG INFORMATION

- ATS-tjänst bedrivs från RTC Stockholm.
- Signalstrålkastare placerad på R-TWR.
- Beviljande undantag från krav i CS-ADR-DSN:
 - RWY 03/21: första och sista fjärdedelen av rullbanan har längd lutning max 1.0%.
 - Fasta belysta och obelysta hinder/terräng genomtränger följande hinderbegränsande ytor enligt förteckning:
Inflygningsyta bana 03
Start-stigytan bana 21
Horisontella ytan
Koniska ytan
 - RCLL saknas för RWY 03/21. För starter understigande bansynvidd (RVR) 400 m krävs LVO-tillstånd från operatörens behöriga myndighet.

ADDITIONAL INFORMATION

- ATS provided from RTC Stockholm.
- Signalling lamp positioned at R-TWR.
- Granted exemptions from requirements in CS-ADR-DSN:
 - RWY 03/21: first and last quarter of runway has longitudinal slope of max 1.0%.
 - Fixed lighted and not lighted obstacles/terrain penetrate the following obstacle limitation surfaces according to list:
Approach surface RWY 03
Take-off climb surface RWY 21
Horizontal surface
Conical surface
 - RWY 03/21 is not equipped with RCLL. RVR below 400 m TKOF only to be conducted with LVO approved by the operator's competent authority.

ESNQ 2.24 TILLHÖRANDE KARTOR

RELATED CHARTS

AD chart		ESNQ 2-1
Parking/Docking chart		ESNQ 2-3
AOC	RWY 03/21	ESNQ-3-1
Area chart	(TMA)	ESNQ 4-1
List of waypoints and significant points		ESNQ 4-3
RNP STAR	RWY 03	ESNQ 4-5
RNP STAR	RWY 21	ESNQ 4-7
SID and STAR	RWY 03	ESNQ 4-9
SID and STAR	RWY 21	ESNQ 4-11
ATC Surveillance		ESNQ 4-91
Minimum ALT chart		
IAC	ILS or LOC z RWY 21	ESNQ 5-1
IAC	ILS or LOC y RWY 21	ESNQ 5-2
IAC	VOR RWY 21	ESNQ 5-3
IAC	NDB z RWY 21	ESNQ 5-4
IAC	NDB y RWY 21	ESNQ 5-5
IAC	VOR z RWY 03	ESNQ 5-7
IAC	VOR y RWY 03	ESNQ 5-8
IAC	RNP RWY 03	ESNQ 5-9
IAC	RNP RWY 21	ESNQ 5-13
VAC		ESNQ 6-1

ARP 674917N 0202008E

AD ELEV 1509 FEET

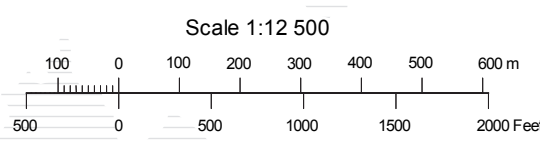
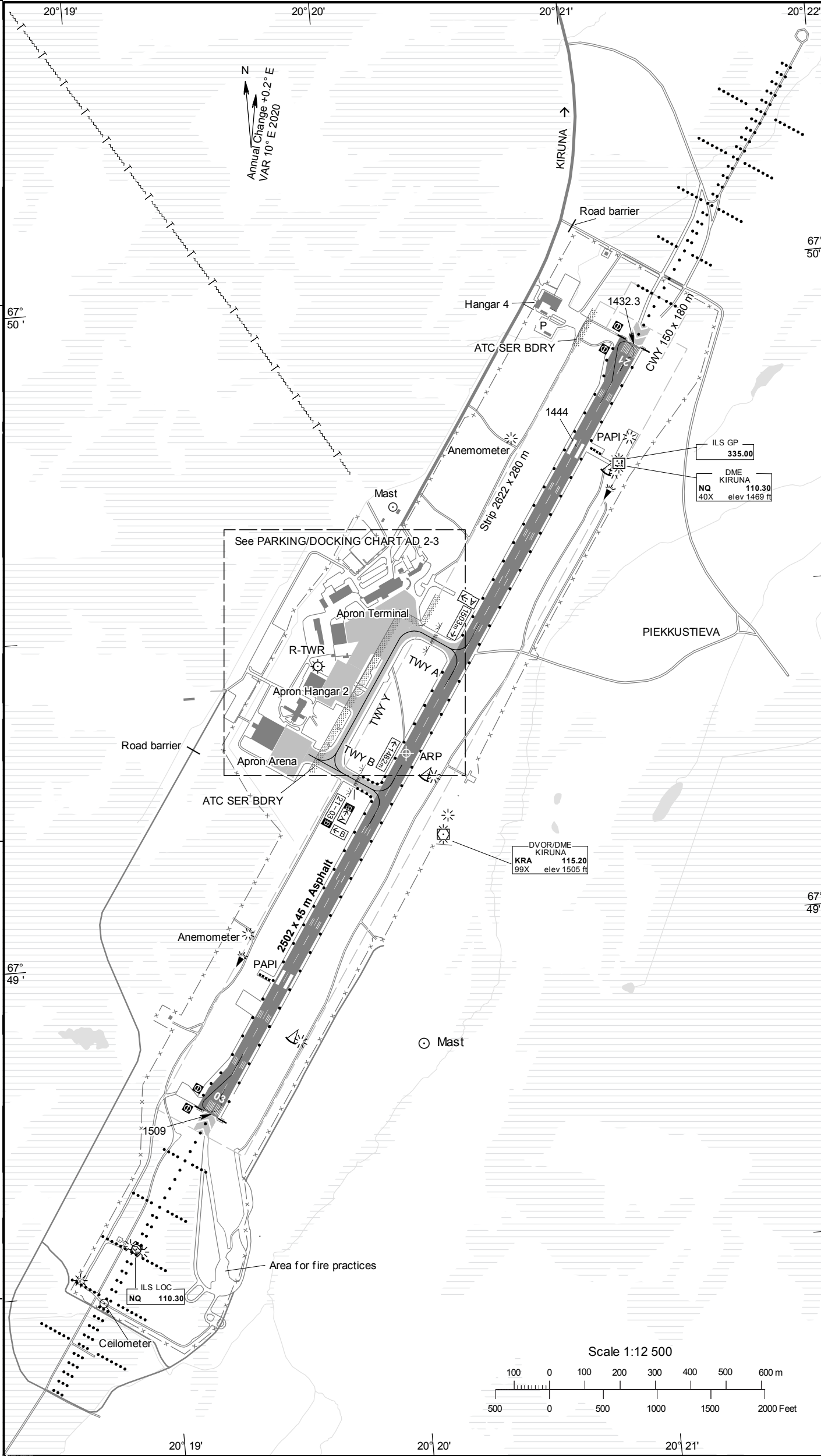
LEGEND See GEN 2.3

Dimensions in m, ELEV in ft

TWY NR	WIDTH	Surface Bearing strength	Day marking		Taxiway lighting	
			Centerline Holding	Edge Centerline	RGL Stopbar	
A	23 m	ASPH PCN 50 F/B/X/T	CL HLDG	EDGE	RGL	
B	23 m	ASPH PCN 51 F/B/X/T	CL HLDG	EDGE	RGL	
Y	23 m	ASPH PCN 41 F/B/X/T	CL	EDGE		

REMARK:

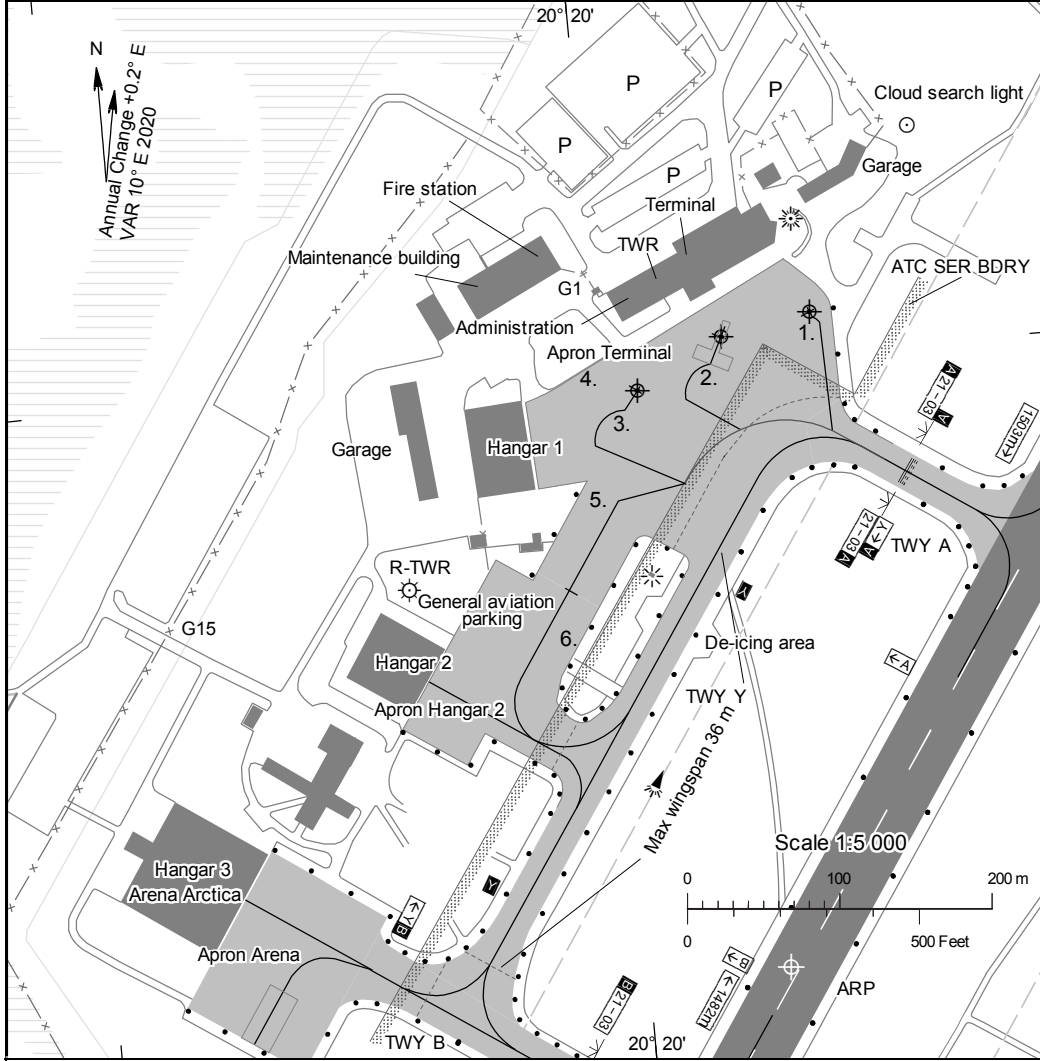
MAX wingspan at TWY Y 36 m (118 ft).



RWY NR	TRUE & MAG BRG	THR PSN Geoid undulation	Bearing strength	THR ELEV and highest ELEV of TDZ of precision APCH RWY	Declared distances				Approach and runway lighting				
					TORA	TODA	ASDA	LDA	APCH	THR TRID TDZ	VASIS (MEHT)	Edge	End
03	033.65° GEO 024° MAG	674845.54N 0201913.10E GUND 98 ft	PCN 75 F/B/X/T	THR 1509 ft	2502	2652	2502	2502	Calvert Cat I 900 m LIH	THR Green	PAPI Left/3.00° (55.0 ft)	2502/60 m White Caution zone 600 m yellow LIH	Red
21	213.69° GEO 204° MAG	674952.75N 0202111.59E GUND 97.0 ft	PCN 75 F/B/X/T	THR 1432.3 ft TDZ 1444 ft	2502	2502	2502	2502	Calvert Cat I 900 m LIH	THR Green	PAPI Left/3.00° (60.4 ft)	2502/60 m White Caution zone 600 m yellow LIH	Red

LFLV
CHANGE: Aiside fence, anemometer move, signs, RVR OBST lights, evacuation road, editorial.

AIRAC AMDT 6/2024 28 NOV 2024



ARP 674917N 0202008E
AD ELEV 1509 FEET
LEGEND See GEN 2.3
 Dimensions in m, ELEV in ft

TWY NR	WIDTH	Surface Bearing strength	Day marking		Taxiway lighting	
			Centerline Holding	Edge Centerline	RGL Stopbar	RGL
A	23 m	ASPH PCN 50 F/B/X/T	CL HLDG	EDGE		RGL
B	23 m	ASPH PCN 51 F/B/X/T	CL HLDG	EDGE		RGL
Y	23 m	ASPH PCN 41 F/B/X/T	CL	EDGE		

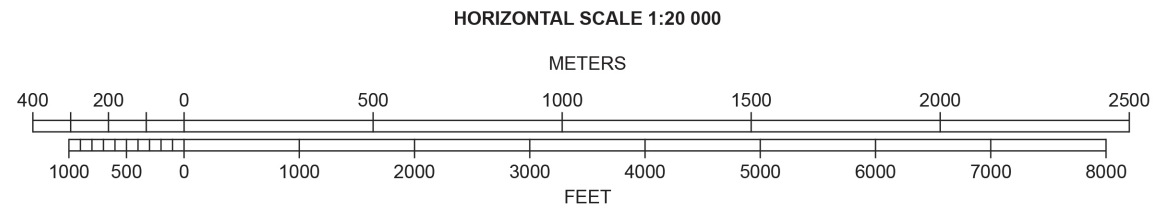
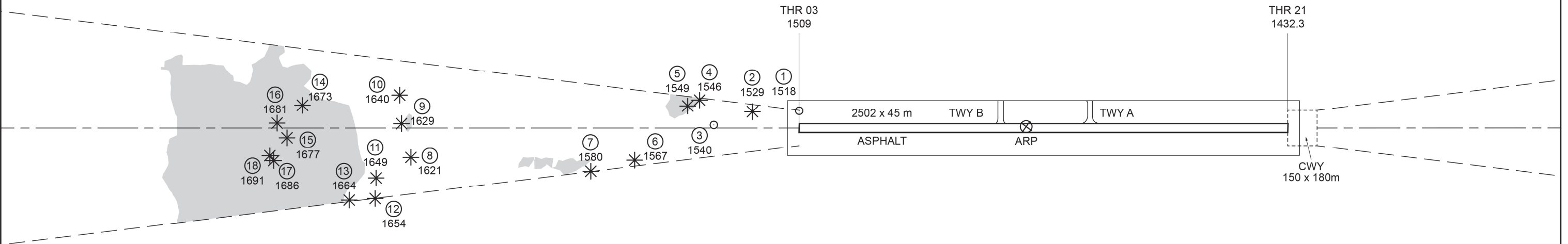
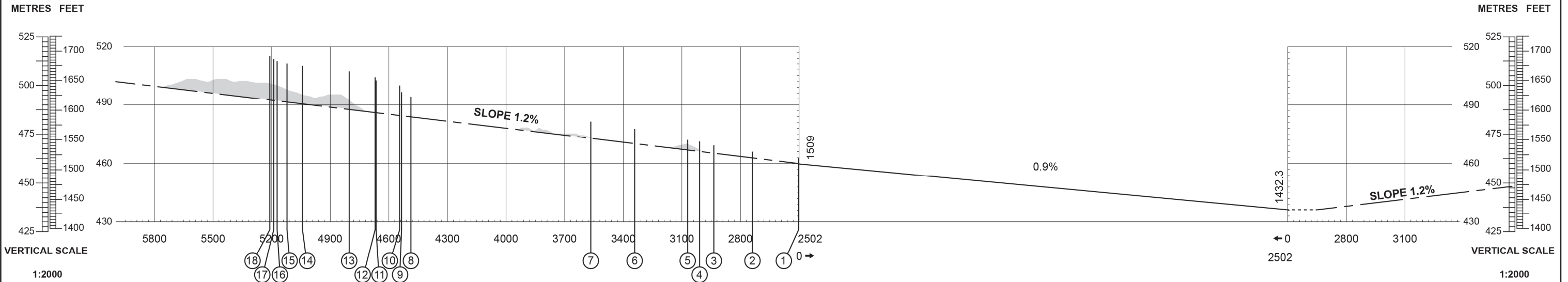
ACL/INS Coordinates for Aircraft Stands				
APRON Surface	NR	COORD	Bearing strength	ELEV
Terminal ASPH ASPH	1	674930.87N 0202012.19E	PCN 45 F/B/X/T	1459
	3	674929.51N 0202002.14E	PCN 45 F/B/X/T	1462
Terminal CONC CONC	2	674930.49N 0202007.09E	PCN 54 R/B/X/T	1461
Hangar 2 ASPH			PCN 47 F/B/X/T	
Arena ASPH ASPH			PCN 53 F/B/X/T	
Arena CONC CONC			PCN 49 R/B/X/T	

REMARK: Obstacle: De-icing building 29 m from centerline TWY Y. Height 3.65 m (12 ft).
 MAX wingspan at TWY Y 36 m (118 ft). De-icing of aircraft with larger wingspan than 36 m shall contact TWR for special instructions.

AERODROME ELEVATION 1509 FEET
MAGNETIC VARIATION 10° E 2020

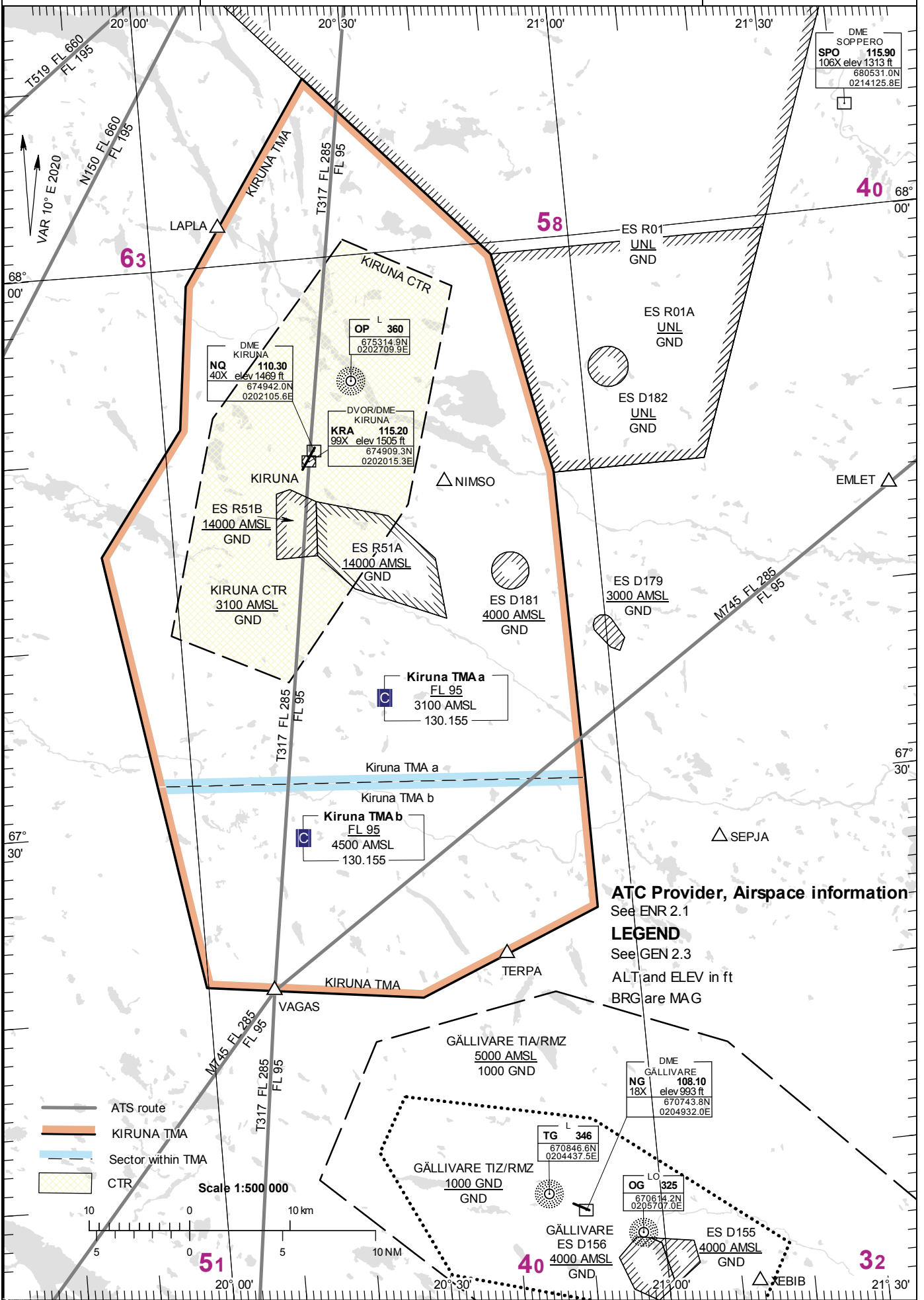
RUNWAY BEARINGS
03 = GEO 033.65°; MAG 024°
21 = GEO 213.69°; MAG 204°

RWY 03	DECLARED DISTANCES	RWY 21
2502	TAKE-OFF RUN AVAILABLE	2502
2652	TAKE-OFF DISTANCE AVAILABLE	2502
2502	ACCELERATE STOP DIST. AVAILABLE	2502
2502	LANDING DISTANCE AVAILABLE	2502



ORDER OF ACCURACY
HORIZONTAL 5 m
VERTICAL 1 ft

LEGEND	
IDENTIFICATION NUMBER	①
POLE, TOWER, SPIRE, ANTENNA, ETC.	○
TREE OR SHRUB	✱
TERRAIN PENETRATING OBSTACLE PLANE	▬

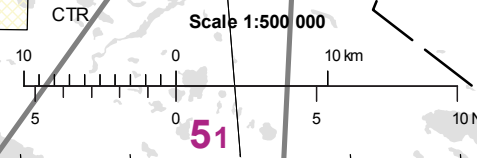


ATC Provider, Airspace information
See ENR 2.1

LEGEND
See GEN 2.3

ALT and ELEV in ft
BRG are MAG

- ATS route
- KIRUNA TMA
- Sector within TMA
- CTR



VISUAL APPROACH CHART - ICAO

1:250000



AD ELEV 77 FEET

ELEV and ALT in ft
HGT in ft above AD ELEV

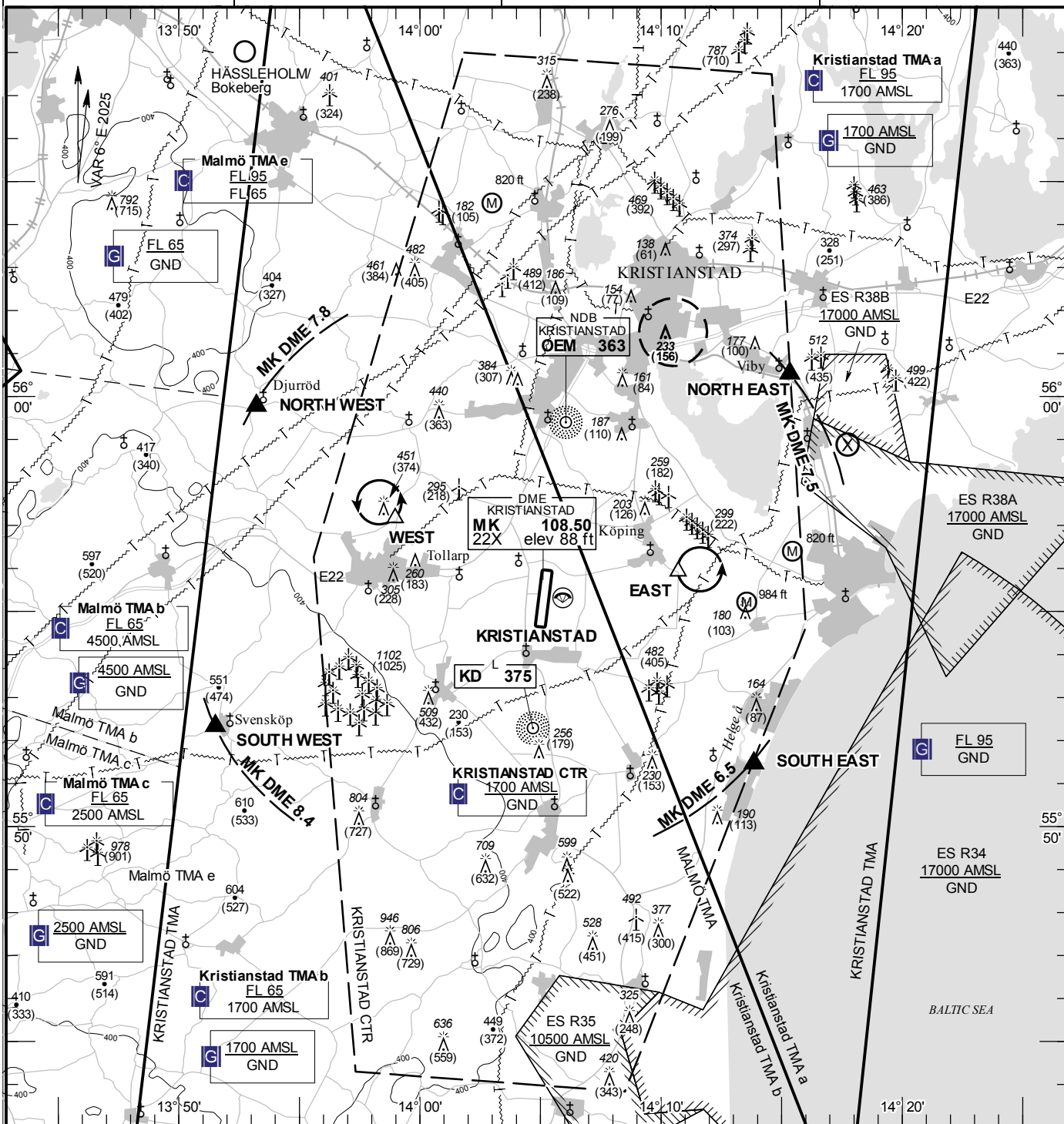
TA 5000 AMSL

KRISTIANSTAD TOWER

129.355

AD 2 ESMK 6-1

KRISTIANSTAD SWEDEN



Communication failure

- SQUAWK 7600
- Enter CTR via NORTH WEST/
SOUTH WEST – Holding WEST
or via NORTH EAST/SOUTH EAST –
Holding EAST at or below 1500 ft AMSL to
traffic circuit.
Transmit blind your intentions.
- Flash LDG-lights and watch TWR for optical
signals.

Remark

Departure RWY 19 right turn. Parajumping area
on airfield.

RWY NR	THR ELEV	PAPI (MEHT)
01	77 ft	Left/3.00° (50 ft)
19	73.8 ft	Left/3.25° (59 ft)

Legend
See GEN 2.3

Entry / exit point

NORTH EAST: East of Viby 560031N 0141520E
SOUTH EAST: Mouth of
river Helge å 555127N 0141351E
SOUTH WEST: Svensköp 555219N 0135131E
NORTH WEST: Djurröd 555946N 0135313E

Holding

EAST: Hold east of Köpings, east of point
555555N 0141043E
WEST: Hold north of Tollarp, north west of
point 555709N 0135858E

LFV

CHANGE: ESHI withdrawn

AIRAC AMDT 6/2024 **28 NOV 2024**

ESCF 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
LOC 01 ILS CAT I (7° E 2025)	CFE	108.35 MHz	HO	582433.7N 0153149.0E		440 m beyond THR 19 ILS Class I/D/2
GP		333.95 MHz	HO	582319.6N 0153109.3E		Angle 3.0° RDH 50.0 ft 275 m past THR 01 right side
L 01	LCF	285 kHz	H24	581917.3N (*) 0152832.2E		Range 15 NM
LOC 19 ILS CAT I (7° E 2025)	CFB	110.10 MHz	HO	582241.2N 0153038.0E		1013 m beyond THR 01 ILS Class I/D/2
GP		334.40 MHz	HO	582411.5N 0153127.8E		Angle 3.2° RDH 55.8 ft 320 m past THR 19 right side
DME	CFB	110.10 MHz	H24	582411.4N 0153128.0E	311 ft	At ILS GP DME channel 38X
DME	CFE	108.35 MHz	H24	582319.6N 0153109.2E	272 ft	At ILS GP DME channel 20Y

ESCF 2.20 LOKALA TRAFIKFÖRESKRIFTER

- När ATS har stängt bör luftfartyg blandsända positionsrapport och avsikt på kanal 118.805 vid användande av manöverområdet samt före angörande av och under flygning i trafikvarv.
- Högervarv tillämpas när RWY 08 och 19 är i användning.
- Omfattande skolverksamhet med militära jetflygplan och helikoptrar utanför Malmen och SAAB CTR.

LOCAL TRAFFIC REGULATIONS

- When ATS is closed position reports and intentions should be transmitted on channel 118.805 before using the manoeuvring area or entering the traffic circuit.
- Right hand traffic circuit when RWY 08 and 19 are in use.
- Intensive training activities with military jet aeroplanes and helicopters outside Malmen and SAAB CTR.

ESCF 2.21 MINSKNING AV BULLERSTÖRNING

Bullerkänsliga områden: Jägarvallen (SE TWR), Linköping stad, Ljungsbro, Malmslätt och Vikingstad.

NOISE ABATEMENT PROCEDURES

Noise sensitive areas: Jägarvallen (SE TWR), City of Linköping, Ljungsbro, Malmslätt and Vikingstad.

ESCF 2.22 FLYGPROCEDURER

- Ankommande IFR-trafik inom Östgöta TMA och Malmen CTR

Inflygningsförfaranden
Se sid ESCF 5–1 till ESCF 5–10.

Väntlägen är upprättade enligt sid ESSP 4–1.
- Avgående IFR-trafik inom Östgöta TMA och Malmen CTR

RWY 01/19
Stig rakt fram, lägsta svänghöjd 1300 ft QNH dager/1800 ft QNH mörker.

FLIGHT PROCEDURES

- Inbound IFR traffic within Östgöta TMA and Malmen CTR

Approach procedures
See pages ESCF 5–1 through ESCF 5–10.

Holding patterns are established in accordance with page ESSP 4–1.
- Outbound IFR traffic within Östgöta TMA and Malmen CTR

RWY 01/19
Climb straight ahead, no turn before 1300 ft QNH daylight/1800 ft QNH darkness.

Om inflygningsfyr (L) ingår i avgående klarering skall fyren överflygas innan sväng påbörjas.

RVR 400 m eller mer krävs för start bana 01/19 (EASA CS ADR-DSN.M.690).

3. Startprocedurer, omnidirectional

If a Locator is included in departure clearance the beacon is a fly-over point until turn is initiated.

RVR 400 m or more is required for departure runway 01/19 (EASA CS ADR-DSN.M.690).

3. Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
01	Climb straight ahead to MNM turning ALT 700 ft. Continue climb to appropriate MSA.	CIO exist Tree	420	026°/2766
19	Climb straight ahead to MNM turning ALT 800 ft. Continue climb to appropriate MSA.	CIO exist Tree Antenna	435 896	193°/5853 159°/9952

4. VFR-flygning inom Östgöta TMA och Malmen CTR

Normala in- och utpasseringspunkter
Se ESCF 6-1

Väntlägen
Se ESCF 6-1

Avbrott i radioförbindelse
Se ESCF 6-1

5. Avbrott i radioförbindelse

Luffartyg ska följa de föreskrifter som anges i ENR 1.3, mom 10. Under IMC gäller dessutom följande för ankommande luffartyg.

5.1 Generellt

Med tillämpligt fastställt navigeringshjälpmedel vid destinationsflygplatsen, enligt ENR 1.3, mom 10.2 e), avses i detta fall LCF.

5.2 Bibehåll senast tilldelad och kvitterad flyghöjd, flyg direkt mot LCF holding. Sjunk i väntläge till 2500 ft AMSL (gör minst ett varv i väntläget). Utför därefter en full procedur ILS-inflygning till bana 01 följt av landning bana 01 eller cirkling till bana 19.

Om avbrott i radioförbindelse inträffar under radarvektorer till instrumentinflygning: Bibehåll senast tilldelad och kvitterad flyghöjd, dock ej lägre höjd än tillämplig lägsta sektorhöjd, flyg direkt till LCF holding. Sjunk i väntläge till 2500 ft AMSL (gör minst ett varv i väntläget). Utför därefter en full procedur ILS-inflygning till bana 01 följt av landning bana 01 eller cirkling till bana 19.

5.3 Avbruten inflygning i samband med avbrott i radioförbindelse

RWY 01 : Stig rakt fram till 2500 ft AMSL. Därefter vänstersväng mot LCF. Gör ett varv i LCF holding. Utför därefter en full procedur ILS-inflygning till bana 01 följt av landning bana 01 eller cirkling till bana 19.

4. VFR flight within Östgöta TMA and Malmen CTR

Normal entry and exit points
See ESCF 6-1

Holdings
See ESCF 6-1

Communication failure
See ESCF 6-1

5. Communication failure

Aircraft shall follow the procedures in ENR 1.3, para 10. In IMC, an inbound aircraft shall in addition follow the relevant procedures specified below.

5.1 General

With appropriate designated navigation aid serving the destination aerodrome, in accordance with ENR 1.3, para 10.2 e), in this case refers to LCF.

5.2 Maintain last received and acknowledged level, proceed direct to LCF holding. Descend in the holding pattern to 2500 ft AMSL (fly at least one circuit in the holding pattern). Then carry out a full procedure ILS-approach to runway 01 followed by landing runway 01 or circling to runway 19.

In the event of communication failure during radar vectors for an instrument approach: Maintain last received and acknowledged level or the applicable minimum sector altitude whichever is higher, proceed direct to LCF holding. Descend in the holding pattern to 2500 ft AMSL (fly at least one circuit in the holding pattern). Then carry out a full procedure ILS-approach to runway 01 followed by landing runway 01 or circling to runway 19.

5.3 Missed approach in connection with communication failure

RWY 01: Climb straight ahead to 2500 ft AMSL. Turn left towards LCF holding. Fly one circuit in the holding pattern. Then carry out a full procedure ILS-approach to runway 01 followed by landing runway 01 or circling to runway 19.

RWY 19: Stig rakt fram till 2500 ft AMSL. Angör LCF holding (Max IAS 230 kt). Gör ett varv i holding. Utför därefter en full procedur ILS-inflygning till bana 01 följt av landning bana 01 eller cirkling till bana 19.

RWY 19: Climb straight ahead to 2500 ft AMSL. Join LCF holding (Max IAS 230 kt). Fly one circuit in the holding pattern. Then carry out a full procedure ILS-approach to runway 01 followed by landing runway 01 or circling to runway 19.

ESCF 2.23 ÖVRIG INFORMATION

- Förhandstillstånd (PPR) krävs för följande flygningar inom ÖSTGÖTA TMA;
 - Fotoflyg
 - Prospekteringsflyg
 - Lyft av fallskärmshoppare
 - Mät och kontrollflygning av navigeringshjälpmedel

Innan färdplan lämnas in skall operatör begära förhandstillstånd från ÖSTGÖTA APP TEL 011 19 28 14.

- Medgivanden om undantag från krav i TSFS:
 - RWY 08/26 är utformad med en ensidig lutning. (TSFS 2010:132 3 kap 8 §)
 - RWY 08/26 som inte är en instrumentbana har högintensiva banljus. (TSFS 2019:24 5 kap 6 §)
- Nedsvep kan förekomma på kort final bana 26.

ADDITIONAL INFORMATION

- Prior Permission Required (PPR) for the following types of flights within ÖSTGÖTA TMA;
 - Aerial photographing
 - Geological survey flights
 - Parachute dropping
 - Calibration flight for nav-aids and approach aids

Before submitting a flight plan the operator shall request prior permission from ÖSTGÖTA APP phone +46 (0)11 19 28 14.

- Granted exemptions from requirements in TSFS:
 - RWY 08/26 is designed with a one-sided slope. (TSFS 2010:132 3 kap 8 §)
 - RWY 08/26 is a non-instrument RWY with high intensity RWY lights. (TSFS 2019:24 5 kap 6 §)
- Down-draught may occur on short final RWY 26.

ESCF 2.24 TILLHÖRANDE KARTOR

AD chart
AOC
AOC
Area chart
List of waypoints and significant points
ATC Surveillance Minimum ALT chart
IAC
IAC
IAC
IAC
IAC
IAC
IAC
IAC
VAC

RWY 01/19
RWY 08/26
(TMA)
ILS z or LOC z RWY 01
ILS y or LOC y RWY 01
NDB z RWY 01
NDB y RWY 01
ILS or LOC RWY 19
RNP RWY 01 (LNAV/VNAV, LNAV only)
RNP RWY 19 (LNAV/VNAV, LNAV only)

RELATED CHARTS

ESCF-2-1
ESCF-3-1
ESCF-3-3
See **ESSP 4-1**
ESCF 4-3
See **ESSP 4-91**
ESCF 5-1
ESCF 5-2
ESCF 5-3
ESCF 5-4
ESCF 5-5
ESCF 5-7
ESCF 5-9
ESCF 6-1

VISUAL APPROACH CHART - ICAO

1:250000



AD ELEV 309 FEET

ELEV and ALT in ft
HGT in ft above AD ELEV

TA 5000 AMSL

MALMEN TOWER

129.800 121.050 132.600

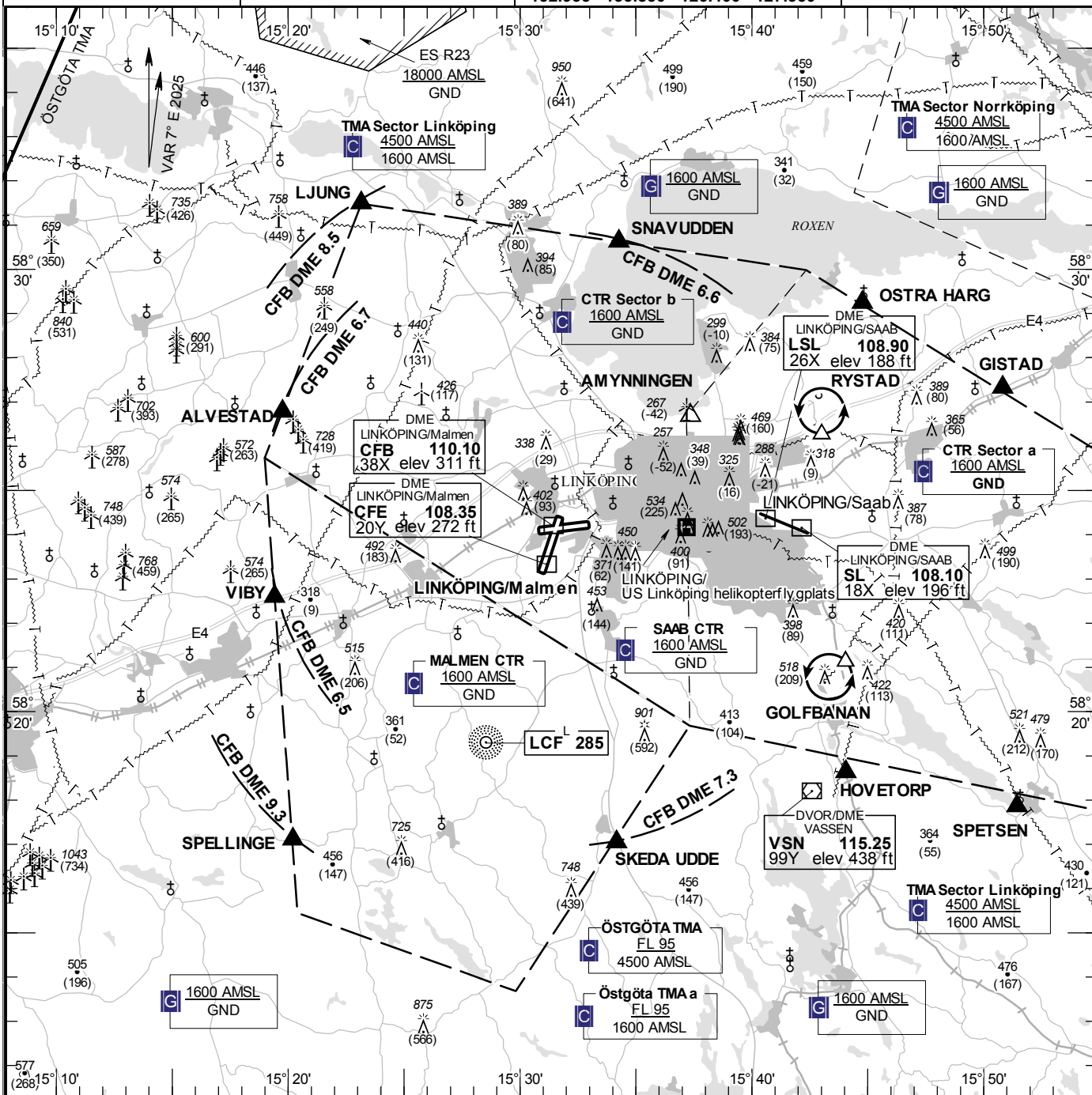
MALMEN GROUND 121.850

ÖSTGÖTA APPROACH

132.955 135.850 126.400 127.350

AD 2 ESCF 6-1

LINKÖPING/Malmen SWEDEN



Communication failure

Traffic with Communication failure is not allowed to enter Malmen CTR. In case of communication failure proceed to SAAB/Linköping and follow Communication failure instruction for SAAB/Linköping.

RWY NR	THR ELEV	PAPI (MEHT)
01	250.7 ft	Left/3.00° (53 ft)
19	295.4 ft	Left/3.20° (53 ft)
08	309 ft	NIL
26	278 ft	NIL

Entry / exit point

LJUNG	583129N 0152309E
SNVUDDEN	583037N 0153416E
SKEDA UDDE	581702N 0153410E
SPELLINGE	581706N 0152012E
VIBY	582235N 0151925E
ALVESTAD	582646N 0151945E

Remark

NIL

Legend

See GEN 2.3

Reporting point

AMYNNINGEN	582640N 0153721E
------------	------------------

Holding

NIL

LFV

CHANGE: OBST

AIRAC AMDT 6/2024 **28 NOV 2024**

AD 2 AERODROMES**ESSL 2.1 AERODROME LOCATION INDICATOR AND NAME****ESSL – LINKÖPING/SAAB****ESSL 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

- | | | |
|----|--|--|
| 1. | ARP coordinates and site at AD | 582423N 0154047E RWY 11/29 intersection TWY I |
| 2. | Direction and distance from (city) | E 2 NM from Linköping |
| 3. | Elevation/Reference temperature | 178 ft/+19.0°C |
| 4. | Geoid undulation at AD ELEV PSN | 95 ft |
| 5. | MAG VAR/Annual change | 6° E 2020/+0.2 increasing |
| 6. | Administration, address, telephone, fax, AFS | Saab Airport AB
SE-581 88 Linköping
TEL: +46 (0)13 18 00 00
CIV OPR: Linköping City Airport AB
Linköping City Airport
SE-582 54 Linköping
TEL: +46 (0)13 26 28 00
E-mail: op@linkopingcityairport.se
AFS: ESSLZTZX
Website: www.linkopingcityairport.se |
| 7. | Types of traffic permitted (IFR/VFR) | IFR/VFR. Max RWY ref code 4C |
| 8. | Remarks | Test AD PPR H24, TEL +46 (0)13 26 28 40 MON-FRI 0700-1530
(0600-1430)
E-mail: op@linkopingcityairport.se |

ESSL 2.3 OPERATIONAL HOURS

- | | | |
|-----|---|--|
| 1. | AD Administration
AD Operating hours | MON-FRI 0700-1530 (0600-1430)
See Local Traffic Regulations |
| 2. | Customs and immigration | O/R, MON-SUN 0800-1400 (0700-1300)
+46 (0)8 456 66 20, FAX +46 (0)8 456 65 96 |
| 3. | Health and sanitation | - |
| 4. | AIS Briefing Office | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 5. | ATS Reporting Office (ARO) | As ATS |
| 6. | MET Briefing Office | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 7. | ATS | Ref AIP SUP/NOTAM |
| 8. | Fuelling | As ATS |
| 9. | Handling | As ATS |
| 10. | Security | As ATS |
| 11. | De-Icing | As ATS |
| 12. | Remarks | - |

ESSL 2.4 HANDLING SERVICES AND FACILITIES

1.	Cargo-handling facilities	-
2.	Fuel/oil types	Fuel Jet A1 Oil -
3.	Fuelling facilities/discharge capacity	Jet A1: No limitations
4.	De-icing facilities	Available, Type I and II
5.	Hangar space for visiting ACFT	-
6.	Repair facilities for visiting ACFT	-
7.	Remarks	Fuel Jet A1 supplier Shell. Service only to aircraft with contract, carnet card or fuel release. No private credit cards accepted. Tel: +44 207 026 32 68. E-mail: aviation-eusa@shell.com Fuel 100LL and 91/96UL available at aero club at GAC apron. Request of refuelling contact info@lfk.se. Payment VISA/Mastercard.

ESSL 2.5 PASSENGER FACILITIES

1.	Hotels	In Linköping
2.	Restaurants	At AD
3.	Transportation	Taxis
4.	Medical facilities	In Linköping
5.	Bank and Post Office	In Linköping
6.	Tourist Office	In Linköping
7.	Remarks	-

ESSL 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	CAT 6 for commercial flights. For non-commercial flights periodically downgraded to CAT 3-higher with 8 min PN.
2.	Rescue equipment	By arrangement
3.	Capability for removal of disabled aircraft	Suitable for aircraft up to E190. Contact: Linköping City Airport. TEL: +46 (0)13 26 28 40. E-mail: op@linkopingcityairport.se .
4.	Remarks	-

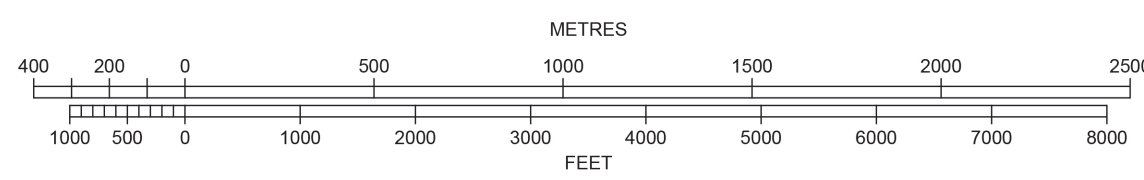
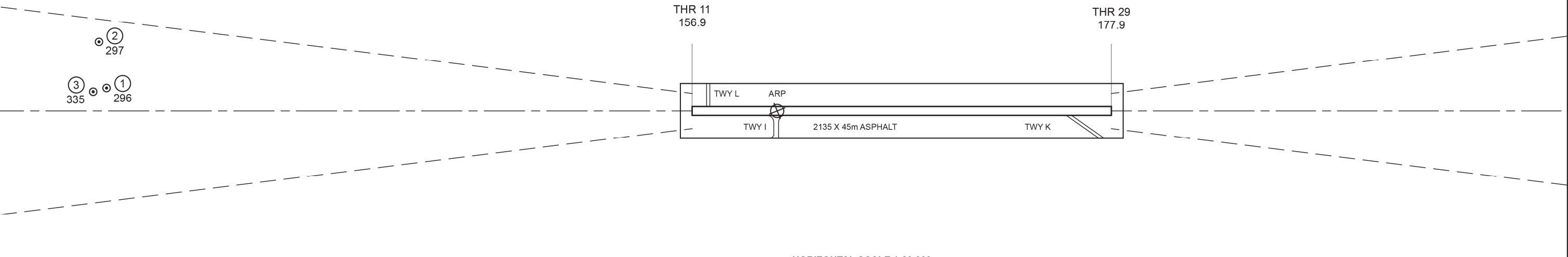
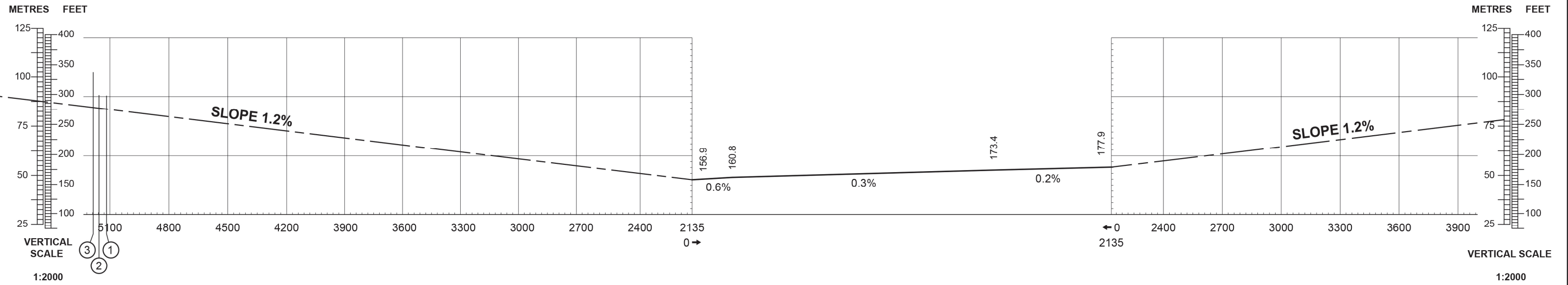
ESSL 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	Snowploughs, sweepers, blowers
2.	Clearance priorities	RWY, TWY, Apron
3.	Remarks	RWY and TWY de-iced/anti-iced with UREA

AERODROME ELEVATION 178 FEET
MAGNETIC VARIATION 6° E 2020

RUNWAY BEARINGS
11 = GEO 112.17°; MAG 106°
29 = GEO 292.19°; MAG 286°

RWY 11	DECLARED DISTANCES	RWY 29
2135	TAKE-OFF RUN AVAILABLE	2135
2135	TAKE-OFF DISTANCE AVAILABLE	2135
2135	ACCELERATE STOP DIST. AVAILABLE	2135
2135	LANDING DISTANCE AVAILABLE	2135



ORDER OF ACCURACY
HORIZONTAL 5 m
VERTICAL 1 ft

LEGEND	
IDENTIFICATION NUMBER	①
POLE, TOWER, SPIRE, ANTENNA, ETC.	○
TREE OR SHRUB	*
BUILDING OR LARGE STRUCTURE	□

AD 2 AERODROMES**ESTL 2.1 AERODROME LOCATION INDICATOR AND NAME****ESTL – LJUNGBYHED****ESTL 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

- | | | |
|----|--|--|
| 1. | ARP coordinates and site at AD | 560507N 0131225E RWY 11L/29R centre point |
| 2. | Direction and distance from (city) | W 1 NM from Ljungbyhed |
| 3. | Elevation/Reference temperature | 139 ft/+22.0°C |
| 4. | Geoid undulation at AD ELEV PSN | 120 ft |
| 5. | MAG VAR/Annual change | 5° E 2025/+0.2 increasing |
| 6. | Administration, address, telephone, fax, AFS | Ljungbyheds Flygplats
Ulanvägen 6
SE-264 51 Ljungbyhed
TEL: -
E-mail: flygplatsen@estl.eu
AFS: ESTLZTZX
Website: www.ljungbyhedpark.se |
| 7. | Types of traffic permitted (IFR/VFR) | IFR/VFR. Max RWY ref code 2C |
| 8. | Remarks | PPR for all flights. |

ESTL 2.3 OPERATIONAL HOURS

- | | | |
|-----|---|---|
| 1. | AD Administration
AD Operating hours | MON-FRI 0700-1500 (0600-1400)
As ATS |
| 2. | Customs and immigration | - |
| 3. | Health and sanitation | - |
| 4. | AIS Briefing Office | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 5. | ATS Reporting Office (ARO) | As ATS |
| 6. | MET Briefing Office | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 7. | ATS | Ref AIP SUP/NOTAM |
| 8. | Fuelling | - |
| 9. | Handling | - |
| 10. | Security | - |
| 11. | De-Icing | - |
| 12. | Remarks | Increased charges outside TWR HR of OPS |

ESTL 2.4 HANDLING SERVICES AND FACILITIES

- | | | |
|----|--|-----------------|
| 1. | Cargo-handling facilities | - |
| 2. | Fuel/oil types | Fuel -
Oil - |
| 3. | Fuelling facilities/discharge capacity | - |
| 4. | De-icing facilities | - |
| 5. | Hangar space for visiting ACFT | - |
| 6. | Repair facilities for visiting ACFT | - |
| 7. | Remarks | - |

ESTL 2.5 PASSENGER FACILITIES

- | | | |
|----|----------------------|---------------------------|
| 1. | Hotels | In Ljungbyhed and Klippan |
| 2. | Restaurants | At AD |
| 3. | Transportation | Taxis |
| 4. | Medical facilities | In Ljungbyhed and Klippan |
| 5. | Bank and Post Office | In Ljungbyhed and Klippan |
| 6. | Tourist Office | In Klippan |
| 7. | Remarks | - |

ESTL 2.6 RESCUE AND FIRE FIGHTING SERVICES

- | | | |
|----|---|------------------------------------|
| 1. | AD category for fire fighting | - |
| 2. | Rescue equipment | - |
| 3. | Capability for removal of disabled aircraft | By arrangement +46 (0)435 44 55 13 |
| 4. | Remarks | - |

ESTL 2.7 SEASONAL AVAILABILITY – CLEARING

- | | | |
|----|-----------------------------|---|
| 1. | Types of clearing equipment | Snowploughs, blowers, sweepers, spreaders |
| 2. | Clearance priorities | RWY, TWY, Apron |
| 3. | Remarks | RWY de-iced/anti-iced with UREA |

ESTL 2.11 METEOROLOGICAL INFORMATION PROVIDED

- | | |
|--|---|
| 1. Associated MET Office | STOCKHOLM/Arlanda |
| 2. Hours of service
MET Office outside hours | H24 |
| 3. Office responsible for TAF preparation
Periods of validity, interval of issuance | STOCKHOLM/Arlanda
9 HR , https://tafplanner.smhi.se/app.php/production-program |
| 4. Type of landing forecast
Interval of issuance | Not issued |
| 5. Briefing/consultation provided | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 6. Flight documentation
Language(s) used | TAF, METAR, SIGMET, Upper air winds
Swedish/English |
| 7. Charts and other information available for
briefing or consultation | SWC, WC, Nordic SIGWX Chart, Low level forecast |
| 8. Supplementary equipment available for
providing information | - |
| 9. ATS units provided with information | LJUNGBYHED APP
LJUNGBYHED TWR |
| 10. Additional information (limitation of service,
etc.) | - |

ESTL 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	True BRG and MAG BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APCH RWY
1	2	3	4	5	6
11L	113.04° GEO 108° MAG	1998 x 40	PCN 25 R/B/X/T ASPH	560518.61N 0131133.02E GUND 119 ft	THR 126 ft
29R	293.06° GEO 288° MAG	1998 x 40	PCN 25 R/B/X/T ASPH	560453.31N 0131319.36E GUND 119 ft	THR 139 ft
11R	113.86° GEO 109° MAG	1986 x 40	PCN 25 R/B/X/T CONC+ASPH	560511.45N 0131052.36E GUND 119 ft	THR 123 ft
29L	293.89° GEO 289° MAG	1986 x 40	PCN 25 R/B/X/T CONC+ASPH	560445.46N 0131237.35E GUND 119.3 ft	THR 136.1 ft TDZ 136.1 ft

Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
11L	-	-	2130 x 150	-	Non instrument
29R	-	-	2130 x 150	-	Non instrument
11R See ESTL AOC	-	-	2109 x 150	-	-
29L See ESTL AOC	-	-	2109 x 150	-	-

ESTL 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
11L	1998	1998	1998	1998	-
29R	1998	1998	1998	1998	-
11R	1986	1986	1986	1986	-
29L	1986	1986	1986	1986	-

DECLARED DISTANCES TAKE-OFF INTERSECTIONS

RWY Designator	INTERSECTION	TORA (m)	TODA (m)	ASDA (m)	Remarks	
1		2	3	4	5	6
11L	TWY D	1643	1643	1643	-	-
11R	TWY A	1633	1633	1633	-	-
11R	TWY J	1148	1148	1148	-	-

ESTL 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT Type, LEN INTST	THR LGT Colour WBAR	VASIS (MEHT)	TDZ LGT LEN	RWY Centre Line LGT LEN, Spacing Colour INTST	RWY Edge LGT LEN, Spacing Colour INTST	RWY End LGT Colour WBAR	SWY LGT LEN, Colour
1	2	3	4	5	6	7	8	9
11R	-	Green	APAPI Left/3.00°	-	-	1986/60 m White Caution zone 600 m yellow LIH	Red	-
29L	Calvert CAT I 750 m LIL/LIH	Green WBAR	PAPI Left/3.00° (57.4 ft)	-	-	1986/60 m White Caution zone 600 m yellow LIH	Red	-

10 Remarks: RWY 29L: APAPI
Left/2.86° (back-up)

ESTL 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

- ABN/IBN location, characteristics and hours of operation -
- LDI location and LGT -
Anemometer location and LGT 350 m past THR 11R right side,
550 m E THR 29L
- TWY edge and centre line lighting Edge: TWY A, B, K, Y
CL: -
LED lights on all RGL

4. Secondary power supply/switch-over time Available/15 sec
5. Remarks -

ESTL 2.16 HELICOPTER LANDING AREA

RWY 11R/29L to be used

ESTL 2.17 ATS AIRSPACE

1. Designation and lateral limits LJUNGBYHED CTR 560918N 0130132E - 560730N 0131850E -
560503N 0132709E - 555903N 0132130E -
560130N 0130750E - 560514N 0125857E -
560918N 0130132E
2. Vertical limits LJUNGBYHED CTR 1500 ft AMSL
GND
3. Airspace classification C
4. ATS unit call sign LJUNGBYHED TOWER
Language(s) Swedish/English
5. Transition altitude 5000 ft AMSL
6. Remarks CTR established during hours of TWR.

ESTL 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	LJUNGBYHED TOWER	130.705	HO	Primary channel
		129.705	HX	-
		121.500	HO	-
	LJUNGBYHED GROUND	121.655	HX	Taxi freq
APP	LJUNGBYHED APPROACH	129.555	HO	-
ATIS	LJUNGBYHED ATIS	132.755	HO	-

ESTL 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
LOC 29L ILS CAT I (5° E 2025)	DA	108.55 MHz	H24 *	560518.9N 0131022.3E		569 m beyond THR 11R
GP		329.75 MHz	H24 *	560453.0N 0131224.1E		Angle 3.0° RDH 50.9 ft 303 m past THR 29L right side
DME	DA	108.55 MHz	H24 *	560453.1N 0131224.2E	169 ft	303 m past THR 29L right side. DME channel 22Y

* Monitoring of signal in space limited to ATS HR of OPS

ESTL 2.20 LOKALA TRAFIKFÖRESKRIFTER

- 1 Högervarv tillämpas när RWY 29L/R är i användning.
- 2 Flygtrafik utanför ATS öppethållning
 - Flygplatsens medgivande krävs för flygtrafik.
 - Start och landning får endast ske när sikten överstiger 800 m.
 - Ingen flygtrafik får förekomma i skymning och mörker.
 - All flygtrafik inom CTR ska blandsända sin avsikt på kanal 130.705.
 - Markfordon kan förekomma utan dubbelriktad flygradioförbindelse.

LOCAL TRAFFIC REGULATIONS

- 1 Right hand traffic circuit when RWY 29L/R is in use.
- 2 Air traffic outside ATS hours of operation
 - Aerodrome consent is required for all traffic.
 - Take-off or landing may only take place when visibility exceeds 800 m.
 - No traffic may take place during twilight and darkness.
 - All traffic within the CTR must transmit their intention on channel 130.705.
 - Ground vehicles can occur without two-way VHF communication.

ESTL 2.21 MINSKNING AV BULLERSTÖRNING

Full banlängd skall användas vid start RWY 29L för att undvika bullerstörningar.

NOISE ABATEMENT PROCEDURES

Full runway length shall be used for departure RWY 29L to avoid noise disturbance.

ESTL 2.22 FLYGPROCEDURER

- 1 Startprocedurer, omnidirectional

FLIGHT PROCEDURES

- 1 Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
11R	Climb straight ahead to MNM turning ALT 800 ft. Continue climb to appropriate MSA.	Antenna CIO exists	853	210°/3398
29L	Climb straight ahead to MNM turning ALT 900 ft. Continue climb to appropriate MSA.	Antenna CIO exists	828	251°/4256

- 2 VFR-flygning inom Ljungbyhed CTR

Normala in- och utpasseringspunkter
Se ESTL 6-1

Väntlägen
Se ESTL 6-1

Avbrott i radioförbindelse
Se ESTL 6-1

- 2 VFR flight within Ljungbyhed CTR

Normal entry and exit points
See ESTL 6-1

Holdings
See ESTL 6-1

Communication failure
See ESTL 6-1

ESTL 2.23 ÖVRIG INFORMATION

Flygplatsen är ej tillgänglig när RVR understiger 800 m.

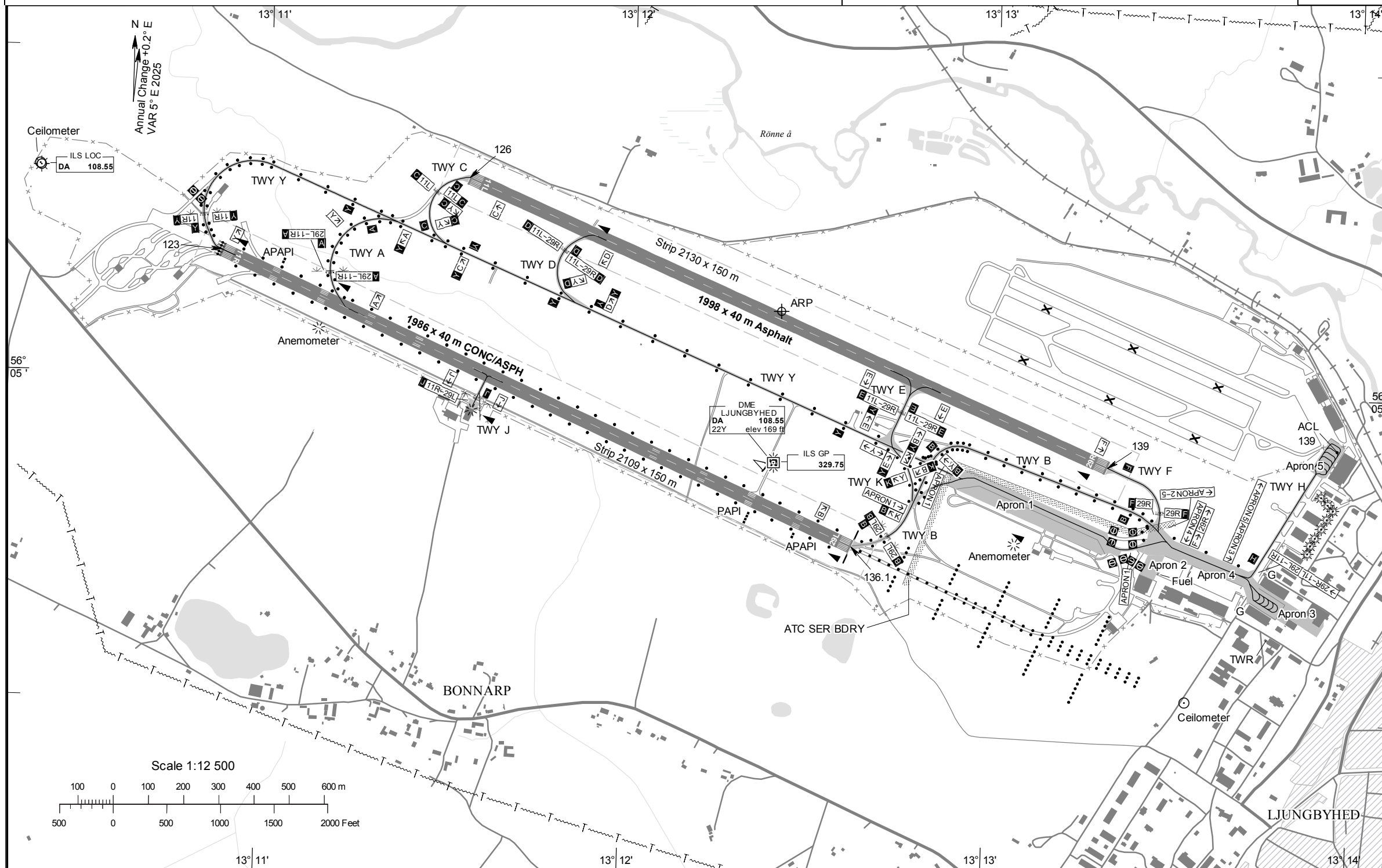
ADDITIONAL INFORMATION

Aerodrome is not available when RVR is less than 800 m.

ESTL 2.24 TILLHÖRANDE KARTOR

RELATED CHARTS

AD chart		ESTL 2-1
AOC	RWY 11R/29L	ESTL 3-1
Area chart	(TMA)	ESTL 4-1
List of waypoints and significant points		ESTL 4-3
ATC Surveillance		ESTL 4-91
Minimum ALT chart		
IAC	ILS z or LOC z RWY 29L (Cat A/B)	ESTL 5-1
IAC	ILS y or LOC y RWY 29L (Cat A/B)	ESTL 5-2
IAC	RNP RWY 11R (Cat A/B)	ESTL 5-5
IAC	RNP RWY 29L (Cat A/B)	ESTL 5-9
VAC		ESTL 6-1



ARP 560507N 0131225E

AD ELEV 139 FEET

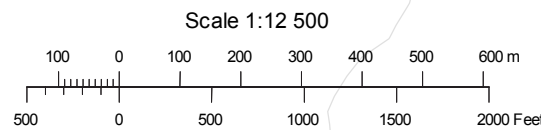
LEGEND See GEN 2.3

Dimensions in m, ELEV in ft

TWY NR	WIDTH	Surface Bearing strength	Day marking		Taxiway lighting	
			Centerline Holding	Edge Centerline	RGL Stopbar	
A	8 m	CONC PCN	CL HLDG	EDGE	RGL	
B	10 m	CONC+ASPH PCN	CL HLDG	EDGE	RGL	
C	8 m	CONC PCN	CL HLDG			
D	10 m	CONC PCN	CL HLDG			
E	10 m	CONC PCN	CL HLDG			
F	10 m	CONC PCN	CL HLDG			
H	8 m	ASPH PCN	CL			
J	4.8 m	ASPH PCN	CL HLDG		RGL	
K	8 m	CONC PCN	CL	EDGE		
Y	8 m	CONC+ASPH PCN	CL HLDG	EDGE	RGL	

INS Coordinates for Aircraft Stands

APRON Surface Bearing strength	NR	COORD	ELEV
1 CONC PCN			
2 CONC PCN			
3 CONC PCN			
4 CONC PCN			
5 CONC PCN			

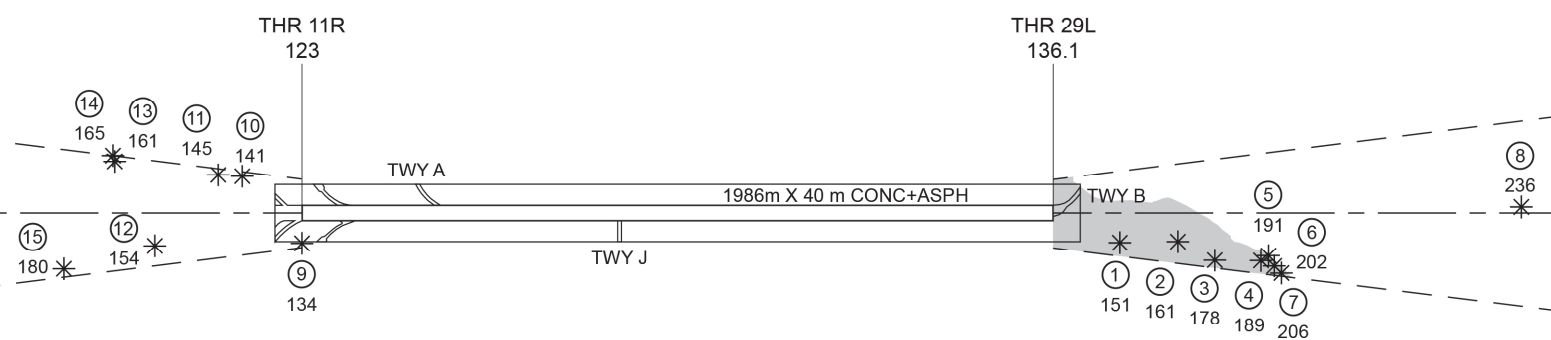
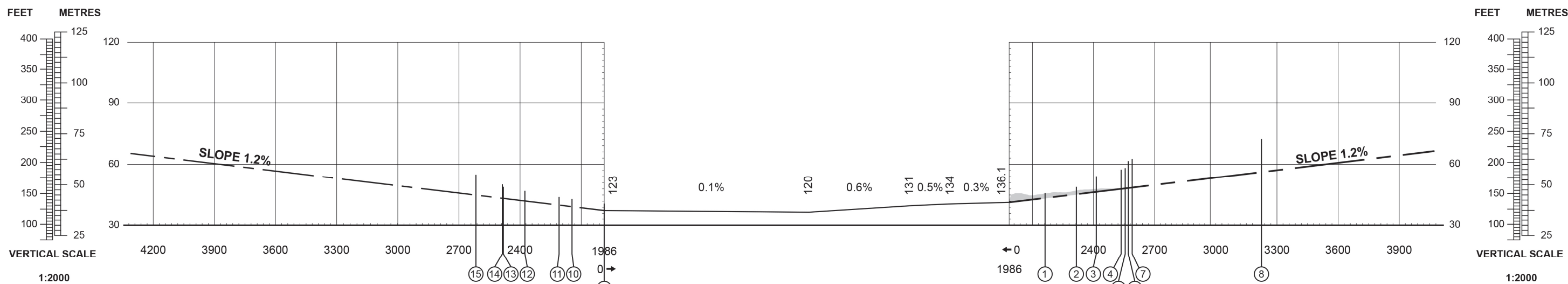


RWY NR	TRUE & MAG BRG	THR PSN Geoid undulation	Bearing strength	THR ELEV and highest ELEV of TDZ of precision APCH RWY	Declared distances				Approach and runway lighting				
					TORA	TODA	ASDA	LDA	APCH	THR TRID TDZ	VASIS (MEHT)	Edge	End
11R	113.86° GEO 109° MAG	560511.45N 0131052.36E GUND 119 ft	PCN 25 R/B/X/T	THR 123 ft	1986	1986	1986	1986		THR Green	APAPI Left/3.00°	1986/60 m White Caution zone 600 m yellow LIH	Red
29L	293.89° GEO 289° MAG	560445.46N 0131237.35E GUND 119.3 ft	PCN 25 R/B/X/T	THR 136.1 ft TDZ 136 ft	1986	1986	1986	1986	Calvert Cat I 750 m LIL/LIH	THR Green WBAR	PAPI Left/3.00° (57.4 ft)	1986/60 m White Caution zone 600 m yellow LIH	Red
11L	113.04° GEO 108° MAG	560518.61N 0131133.02E GUND 119 ft	PCN 25 R/B/X/T	THR 126 ft	1998	1998	1998	1998					
29R	293.06° GEO 288° MAG	560453.31N 0131319.36E GUND 119 ft	PCN 25 R/B/X/T	THR 139 ft	1998	1998	1998	1998					

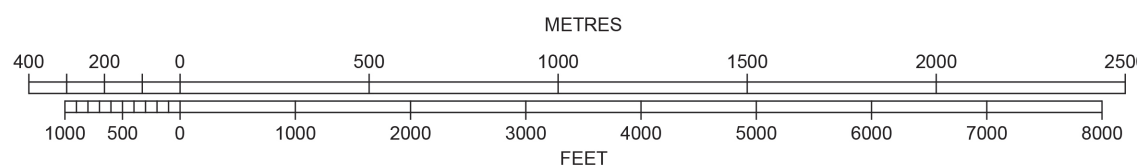
AERODROME ELEVATION 139 FEET
MAGNETIC VARIATION 5° E 2025

RUNWAY BEARINGS
11R = GEO 113.9°; MAG 109°
29L = GEO 293.9°; MAG 289°

RWY 11R	DECLARED DISTANCES	RWY 29L
1986	TAKE-OFF RUN AVAILABLE	1986
1986	TAKE-OFF DISTANCE AVAILABLE	1986
1986	ACCELERATE DIST. AVAILABLE	1986
1986	LANDING DISTANCE AVAILABLE	1986



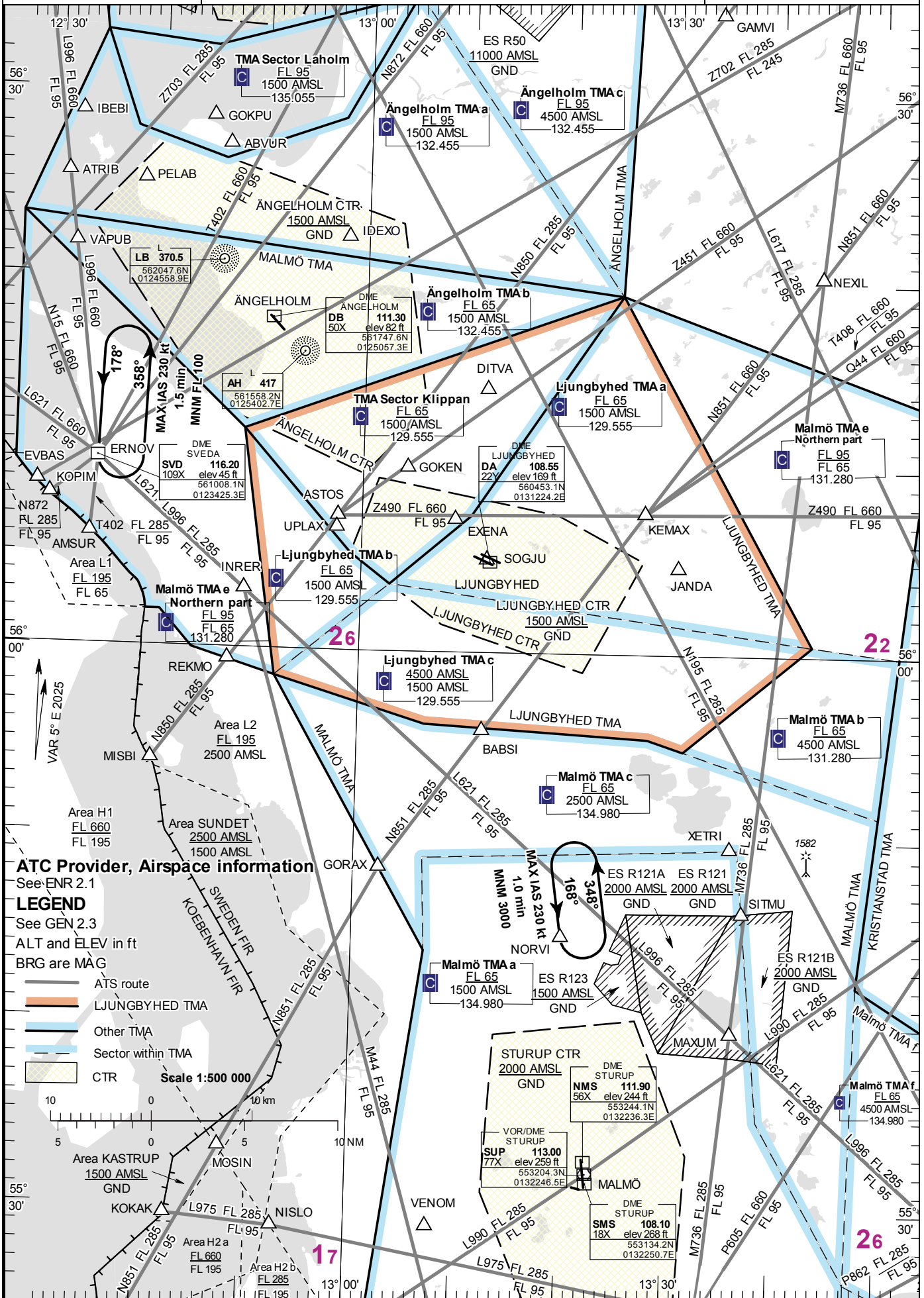
HORIZONTAL SCALE 1:20 000



ORDER OF ACCURACY

HORIZONTAL 5 m
VERTICAL 1 ft

LEGEND	
IDENTIFICATION NUMBER	①
POLE, TOWER, SPIRE, ANTENNA, ETC.	○
TREE OR SHRUB	*
TERRAIN PENETRATING OBSTACLE PLANE	▲



ATC Provider, Airspace information

See ENR 2.1

LEGEND

See GEN 2.3

ALT and ELEV in ft

BRG are MÄG

- ATS route
- LJUNGBYHED TMA
- Other TMA
- Sector within TMA
- CTR

Scale 1:500 000



LFV

CHANGE: VOR/DME LJU withdrawn, VAR, SOGJU new

AIRAC AMDT 6/2024 28 NOV 2024

Reverse side intentionally blank

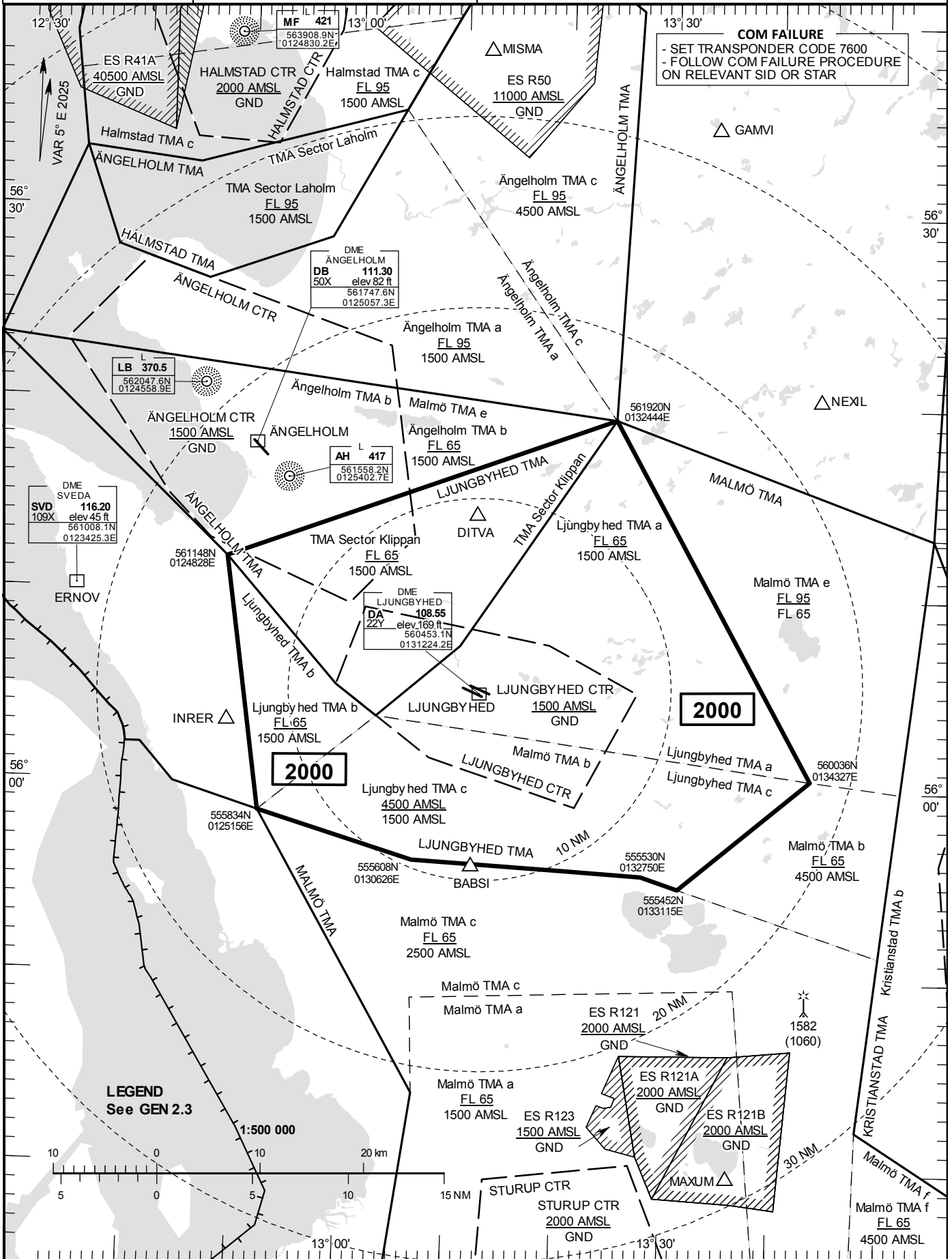
List of waypoints and significant points at LJUNGBYHED (ESTL)

WPT	Coordinates
RW11R	560511.45N 0131052.36E
RW29L	560445.46N 0131237.35E
TL550	560226.9N 0132154.3E
TL551	560101.6N 0132736.1E
TL553	555948.1N 0133228.7E
TL554	555722.8N 0132441.9E
TL600	560332.6N 0131731.0E
TL850	560624.0N 0130558.4E
TL900	560730.1N 0130129.7E
TL901	560854.4N 0125546.0E
TL902	560515.1N 0125253.6E
TL903	561006.4N 0125051.1E
TL904	561233.6N 0125839.0E
INRER	560309.7N 0124849.2E
JANDA	560440.2N 0133030.9E
MAXUM	553940.5N 0133614.4E
NEXIL	562020.9N 0134359.2E
SOGJU	560459.2N 0131204.5E

AD ELEV 139 FEET
HGT and ALT in ft
TA 5000 AMSL

LJUNGBYHED TOWER 130.705
129.705
LJUNGBYHED GROUND 121.655
LJUNGBYHED APPROACH 129.555

THIS CHART MAY ONLY BE USED FOR CROSS-CHECKING OF ASSIGNED ALTITUDES WHILST IN RECEIPT OF RADAR SERVICE LEVELS ASSIGNED BY ATC INCLUDE A CORRECTION FOR LOW TEMPERATURE EFFECT



LEGEND
See GEN 2.3

1:500 000

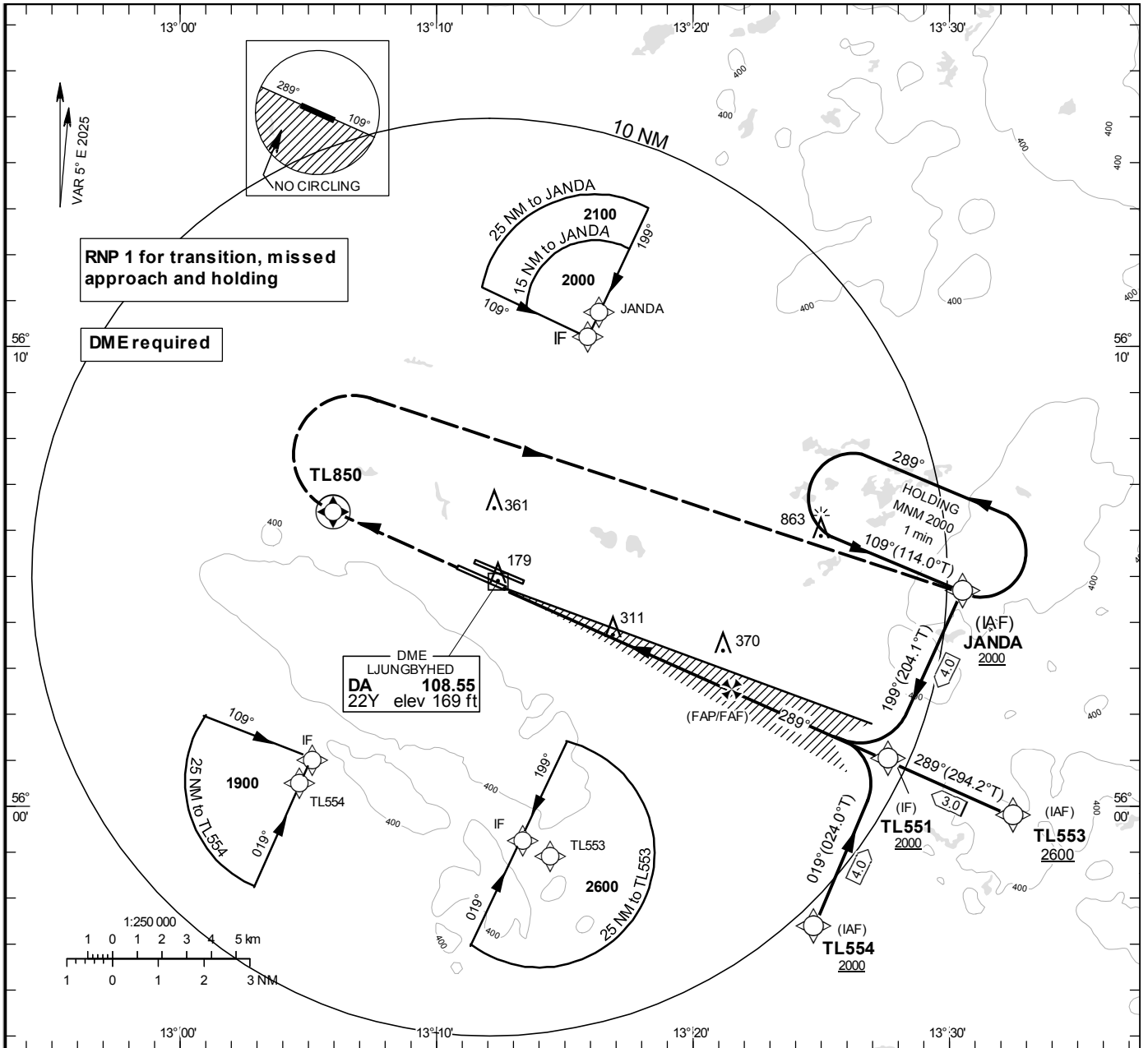


INSTRUMENT APPROACH CHART – ICAO

THR ELEV 136.1 ft, AD ELEV 139 ft
 OCH are related to THR.
 Circling OCH are related to AD ELEV.
 BRG are MAG
 ALT, HGT and ELEV in ft.

LJUNGBYHED TOWER 130.705
 LJUNGBYHED GROUND 121.655
 LJUNGBYHED APPROACH 129.555

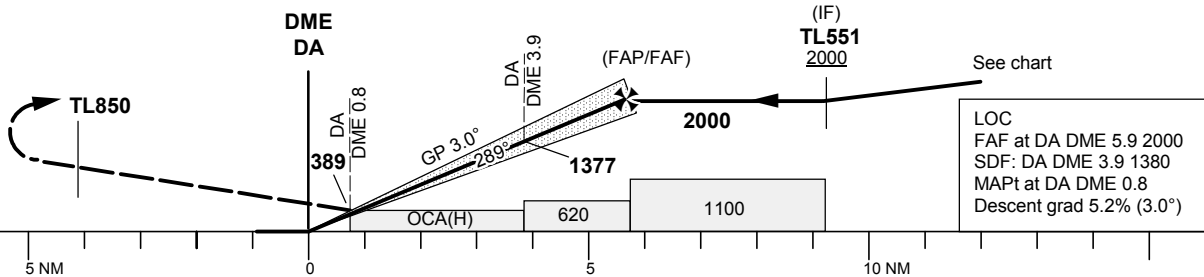
ILS z or LOC z RWY 29L
(Cat A/B)



TA 5000 ft AMSL RDH 50.9 ft *Timing not authorized for defining the MAPt

CLIMB TO TL850.
 AT TL850 TURN RIGHT TO JANDA
 CLIMBING TO 2000 AND JOIN JANDA HOLDING.

OM replaced by DA DME 3.9
 MM replaced by DA DME 0.8



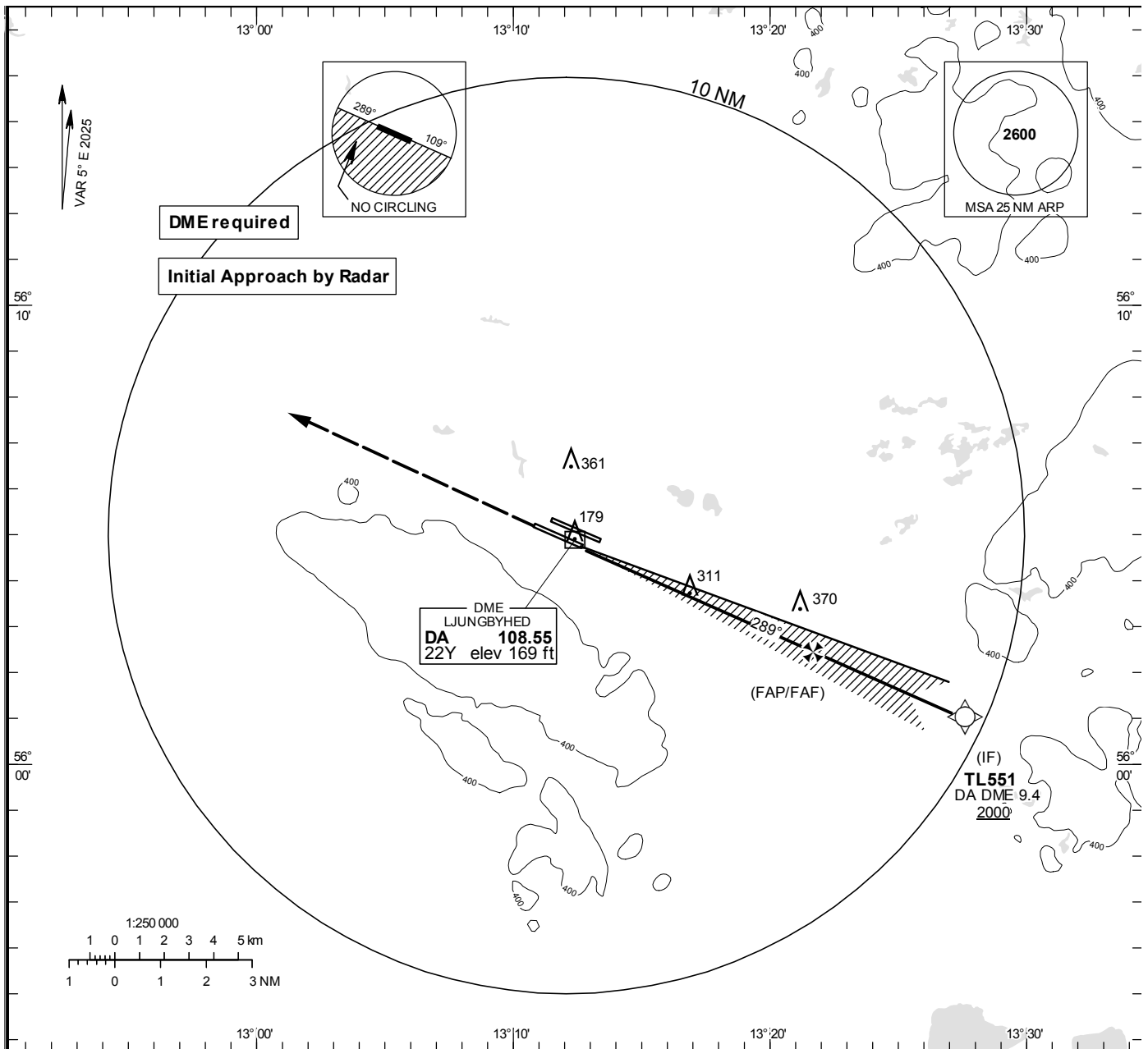
		OCA (H)		Final approach	LOC Distance FAF-MAPt 5.1 NM*				
Cat of ACFT		A	B	DME DA NM	2	3	4	5	
Straight-in Approach	CAT I	281 (144)	290 (153)	ALT	770	1090	1410	1730	
	LOC	560 (430)		GS	kt	80	100	120	140
Circling NE RWY		660 (530)	660 (530)	Time	min:s	3:48	3:02	2:32	2:10
				Rate of descent	ft/min	425	530	635	745

ILS y or LOC y RWY 29L
(Cat A/B)

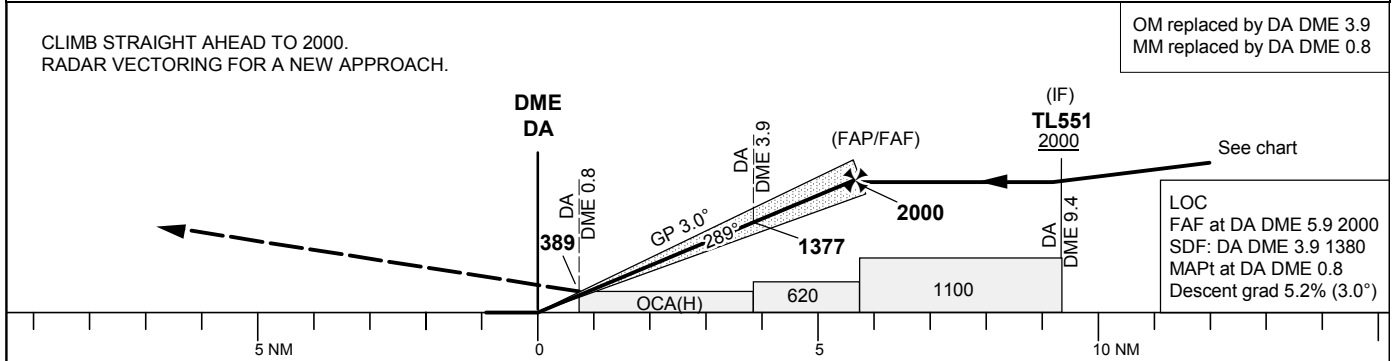
LJUNGBYHED TOWER	130.705
LJUNGBYHED GROUND	121.655
LJUNGBYHED APPROACH	129.555

THR ELEV 136.1 ft, AD ELEV 139 ft
OCH are related to THR.
Circling OCH are related to AD ELEV.
BRG are MAG
ALT. HGT and ELEV in ft.

INSTRUMENT
APPROACH
CHART - ICAO



TA 5000 ft AMSL RDH 50.9 ft *Timing not authorized for defining the MAPt



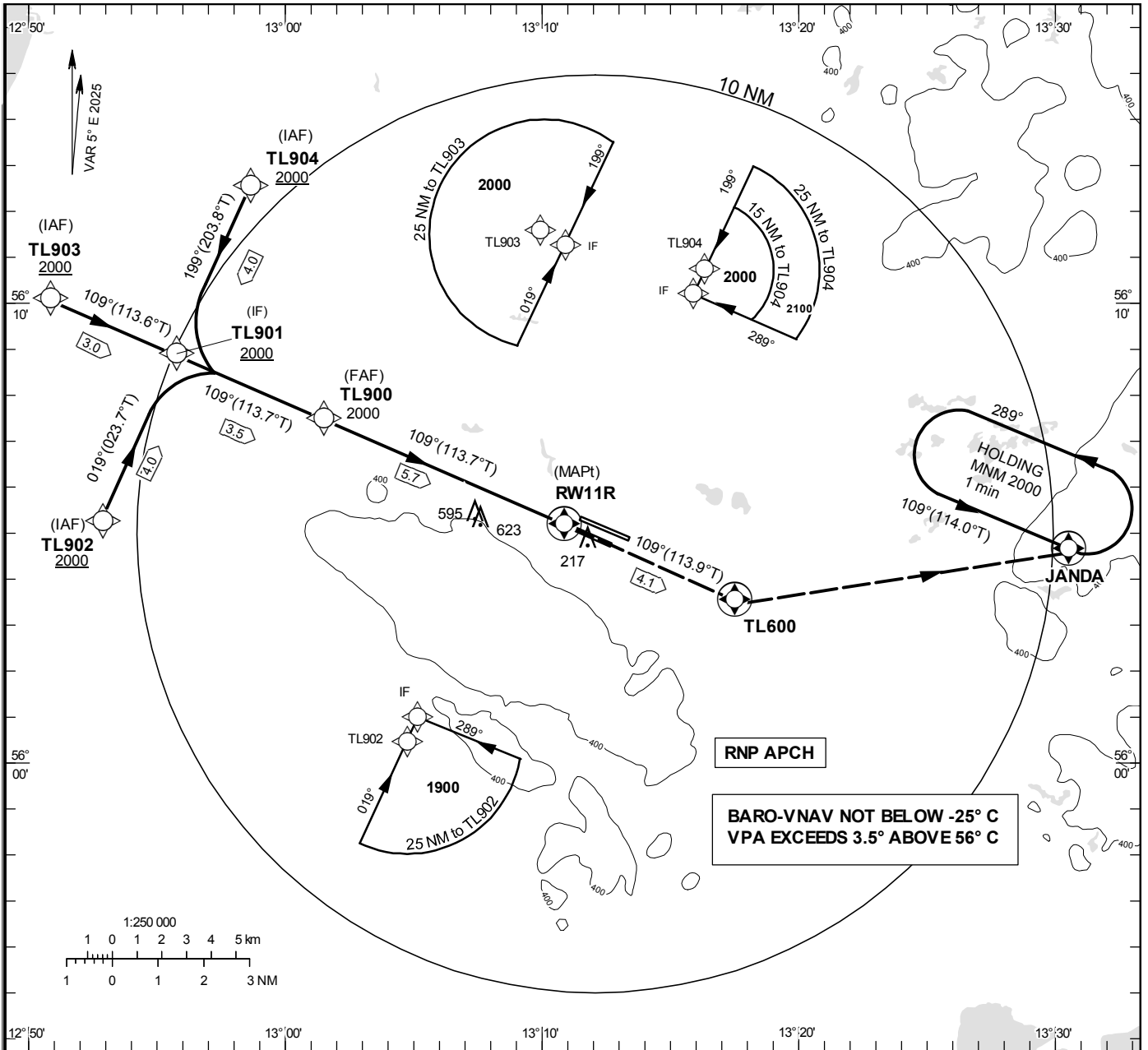
		OCA (H)		Final approach		LOC Distance FAF-MAPt 5.1 NM*			
Cat of ACFT		A	B	DME DA NM	2	3	4	5	
Straight-in Approach	CAT I	281(144)	290 (153)	2	770	1090	1410	1730	
	LOC	560 (430)							
Circling NE RWY		660 (530)	660 (530)						
				GS	kt	80	100	120	140
				Time	min:s	3:48	3:02	2:32	2:10
				Rate of descent	ft/min	425	530	635	745

INSTRUMENT APPROACH CHART – ICAO
THR ELEV 123 ft, AD ELEV 139 ft
 OCH are related to THR.
 BRG are MAG (True).
 ALT, HGT and ELEV in ft.

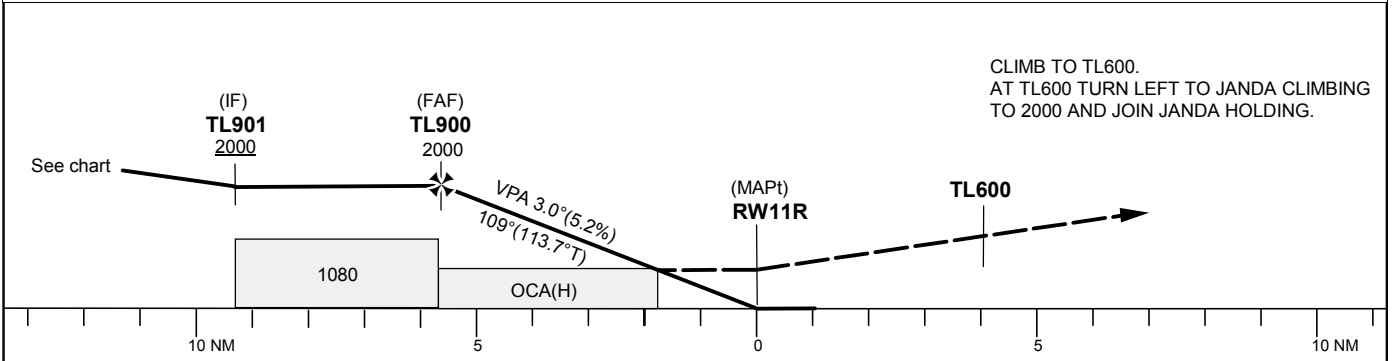
LJUNGBYHED TOWER	130.705
LJUNGBYHED GROUND	121.655
LJUNGBYHED APPROACH	129.555

RNP RWY 11R (Cat A/B)

EGNOS Ch 92296 E11A



TA 5000 ft AMSL RDH 50 ft



Cat of ACFT	OCA (H)		Final approach Dist to RW11R	Distance FAF-MAPt 5.7 NM			
	A	B		5	4	3	2
LPV	348 (225)	360 (237)	ALT	1770	1450	1130	810
LNAV/VNAV	673 (550)	678 (555)	GS	kt	80	100	120
LNAV	740 (620)		Rate of descent	ft/min	425	530	635

RNP RWY 11R via TL902

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/RDH (°/ft)	Rec Navaid	Navigation Specification
IF	TL902	-	-	-	-	+2000	-	-	-	RNP APCH
TF	TL901	-	019°(023.7°)	4.0	-	-	-	-	-	RNP APCH

RNP RWY 11R via TL903

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/RDH (°/ft)	Rec Navaid	Navigation Specification
IF	TL903	-	-	-	-	+2000	-	-	-	RNP APCH
TF	TL901	-	109°(113.6°)	3.0	-	-	-	-	-	RNP APCH

RNP RWY 11R via TL904

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/RDH (°/ft)	Rec Navaid	Navigation Specification
IF	TL904	-	-	-	-	+2000	-	-	-	RNP APCH
TF	TL901	-	199°(203.8°)	4.0	-	-	-	-	-	RNP APCH

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	TL901	-	-	-	-	+2000	-	-	-	RNP APCH
TF	TL900	-	109°(113.7°)	3.5	-	@2000	-	-	-	RNP APCH
TF	RW11R	Y	109°(113.7°)	5.7	-	@173	-	-3.0/50	-	RNP APCH
TF	TL600	Y	109°(113.9°)	4.1	-	-	-	-	-	RNP APCH
DF	JANDA	Y	-	-	L	+2000	-	-	-	RNP APCH

Holding JANDA

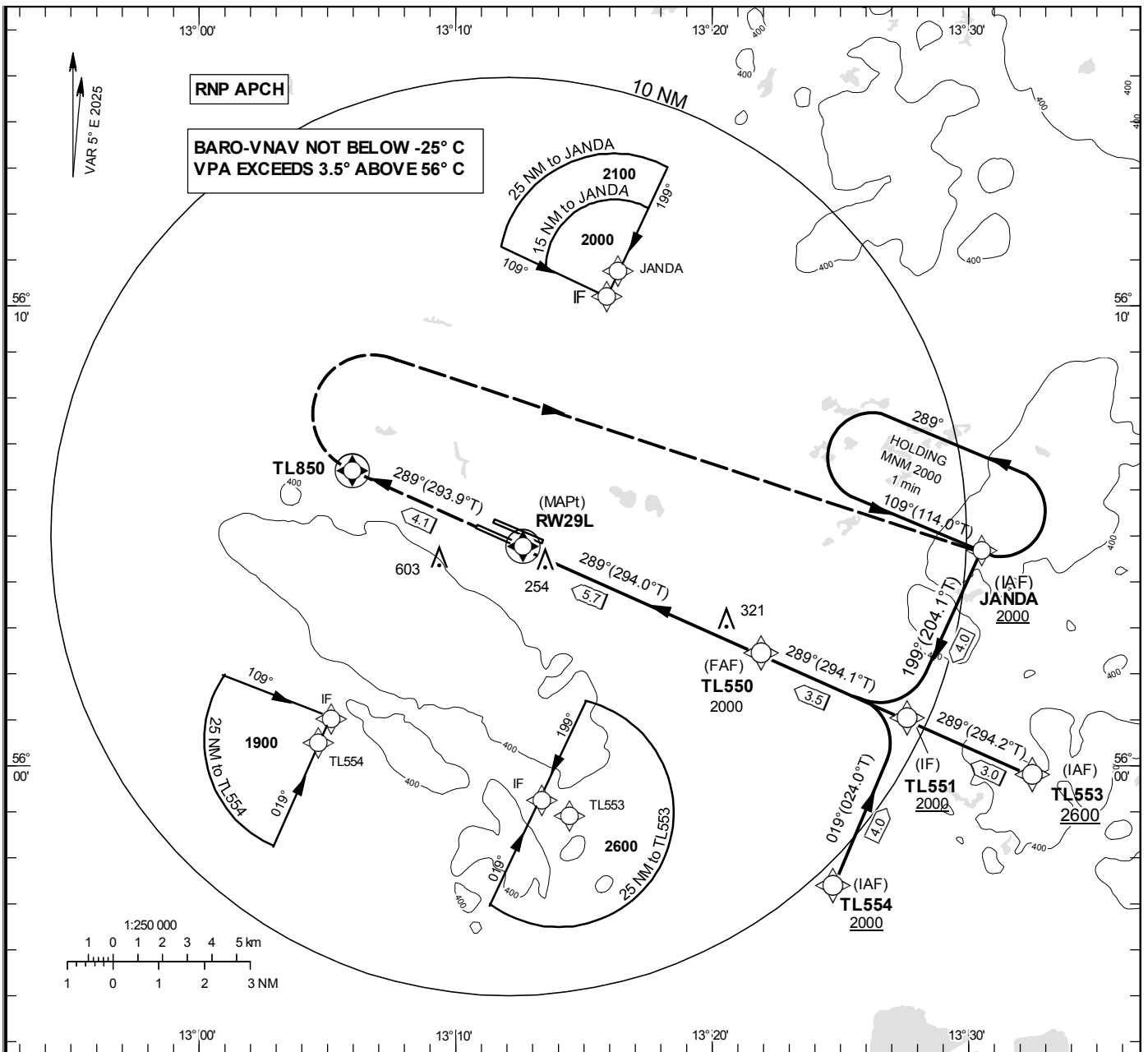
Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/RDH (°/ft)	Rec Navaid	Navigation Specification
HM	JANDA	Y	109°(114.0°)	-	L	+2000	-	-	-	RNP 1

INSTRUMENT APPROACH CHART – ICAO

THR ELEV 136.1 ft, AD ELEV 139 ft
 OCH are related to THR.
 BRG are MAG (True).
 ALT, HGT and ELEV in ft.

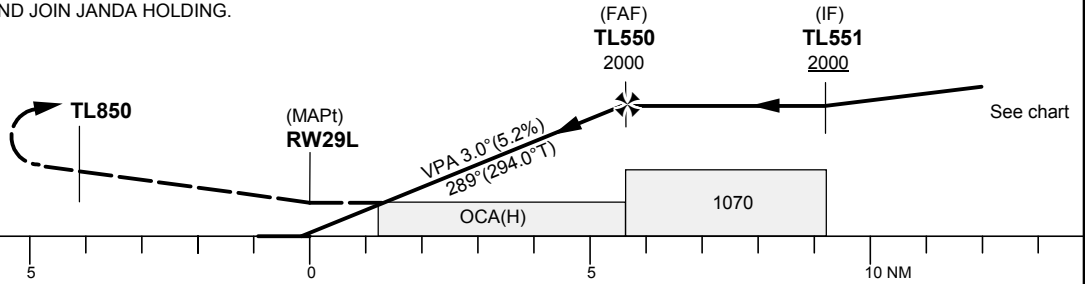
LJUNGBYHED TOWER 130.705
 LJUNGBYHED GROUND 121.655
 LJUNGBYHED APPROACH 129.555

RNP RWY 29L (Cat A/B)
 EGNOS Ch 74642 E29A



TA 5000 ft AMSL RDH 50 ft

CLIMB TO TL850.
 AT TL850 TURN RIGHT TO JANDA
 CLIMBING TO 2000 AND JOIN JANDA HOLDING.



Cat of ACFT	OCA (H)		Final approach Dist to RW29L	Distance FAF-MAPt 5.7 NM				
	A	B		2	3	4	5	
LPV	385 (249)	396 (260)	ALT	820	1140	1460	1780	
LNAV/VNAV	439 (303)	452 (316)	GS	kt	80	100	120	140
LNAV	580 (450)		Rate of descent	ft/min	425	530	635	745

RNP RWY 29L via JANDA

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/RDH (°/ft)	Rec Navaid	Navigation Specification
IF	JANDA	-	-	-	-	+2000	-	-	-	RNP APCH
TF	TL551	-	199°(204.1°)	4.0	-	-	-	-	-	RNP APCH

RNP RWY 29L via TL553

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/RDH (°/ft)	Rec Navaid	Navigation Specification
IF	TL553	-	-	-	-	+2600	-	-	-	RNP APCH
TF	TL551	-	289°(294.2°)	3.0	-	-	-	-	-	RNP APCH

RNP RWY 29L via TL554

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/RDH (°/ft)	Rec Navaid	Navigation Specification
IF	TL554	-	-	-	-	+2000	-	-	-	RNP APCH
TF	TL551	-	019°(024.0°)	4.0	-	-	-	-	-	RNP APCH

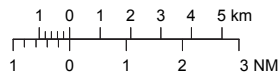
Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	TL551	-	-	-	-	+2000	-	-	-	RNP APCH
TF	TL550	-	289°(294.1°)	3.5	-	@2000	-	-	-	RNP APCH
TF	RW29L	Y	289°(294.0°)	5.7	-	@186	-	-3.0/50	-	RNP APCH
TF	TL850	Y	289°(293.9°)	4.1	-	-	-	-	-	RNP APCH
DF	JANDA	-	-	-	R	+2000	-	-	-	RNP APCH

Holding JANDA

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/RDH (°/ft)	Rec Navaid	Navigation Specification
HM	JANDA	Y	109°(114.0°)	-	L	+2000	-	-	-	RNP 1

VISUAL APPROACH CHART - ICAO

1:250000



AD ELEV 139 FEET

ELEV and ALT in ft
HGT in ft above AD ELEV

TA 5000 AMSL

LJUNGBYHED TOWER 130.705

129.705

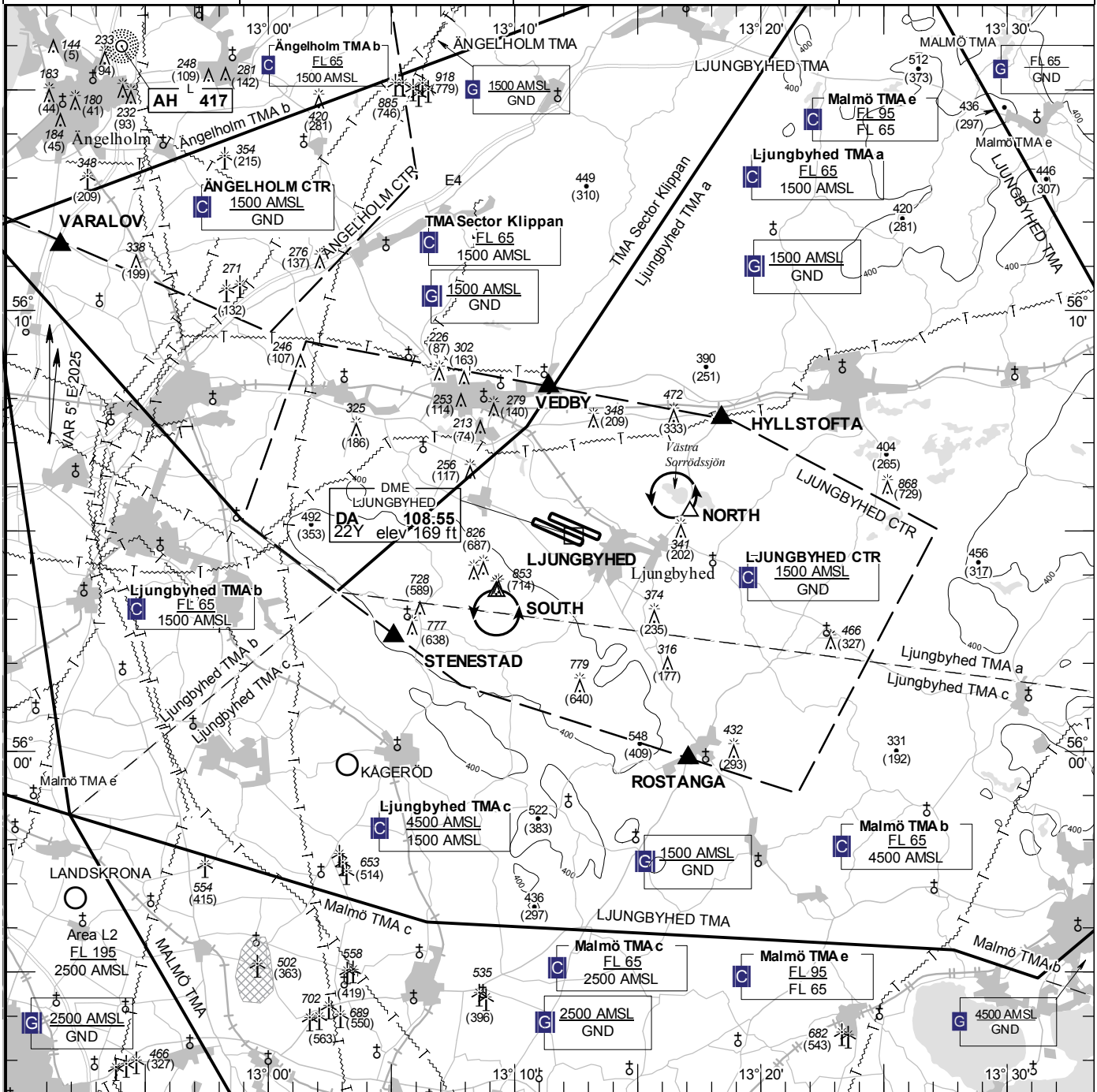
LJUNGBYHED GROUND 121.655

LJUNGBYHED APPROACH 129.555

LJUNGBYHED ATIS 132.755

AD 2 ESTL 6-1

LJUNGBYHED SWEDEN



Communication failure

- 1 SQUAWK 7600
- 2 Enter CTR via HYLLSTOFTA – Holding NORTH or via STENESTAD-Holding SOUTH at or below 1200 ft AMSL to traffic circuit. Transmit blind your intentions.
- 3 Flash LDG-lights and watch TWR for optical signals. From holding NORTH proceed overhead the field and join right hand traffic circuit RWY 11R or left hand traffic circuit RWY 29L. From holding SOUTH proceed for right hand traffic circuit RWY 11R or left hand traffic circuit RWY 29L.

RWY	THR	PAPI
NR	ELEV	(MEHT)
11L	126 ft	NIL
29R	139 ft	NIL
11R	123 ft	APAPI Left/3.00°
29L	136.1 ft	Left/3.00° (57 ft)

Entry / exit point

VEDBY	560816N 0131123E
HYLLSTOFTA	560733N 0131824E
ROSTANGA	555950N 0131703E
STENESTAD	560236N 0130505E

Holding

NORTH: Hold over Västra Sorrhödsjön, north west of point 560525N 0131707E

SOUTH: Hold south of the mast, south of point 560336N 0130915E

Legend

See GEN 2.3

Remark

Right hand traffic circuit when RWY 29L/29R are in use.

Sector KLIPPAN:
ATC provider, see ENR 2.1.

LFV

CHANGE: VOR/DME LJU withdrawn, VAR

AIRAC AMDT 6/2024 **28 NOV 2024**

ESMS 2.11 METEOROLOGICAL INFORMATION PROVIDED

- | | | |
|-----|--|--|
| 1. | Associated MET Office | STOCKHOLM/Arlanda |
| 2. | Hours of service
MET Office outside hours | H24 |
| 3. | Office responsible for TAF preparation
Periods of validity | STOCKHOLM/Arlanda
24 HR |
| 4. | Type of landing forecast
Interval of issuance | Not issued |
| 5. | Briefing/consultation provided | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 6. | Flight documentation
Language(s) used | TAF, METAR, SIGMET, Upper air winds
Swedish/English |
| 7. | Charts and other information available for
briefing or consultation | SWC, WC, Nordic SIGWX Chart, Low level forecast |
| 8. | Supplementary equipment available for
providing information | - |
| 9. | ATS units provided with information | MALMÖ/Sturup TWR/RTC Stockholm |
| 10. | Additional information (limitation of service,
etc.) | - |

ESMS 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	True BRG and MAG BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APCH RWY
1	2	3	4	5	6
17	173.35° GEO 169° MAG	2800 x 45	PCN 80 F/B/X/T ASPH	553253.00N 0132225.59E GUND 116.6 ft	THR 208.8 ft TDZ 224 ft
35	353.35° GEO 349° MAG	2800 x 45	PCN 80 F/B/X/T ASPH	553123.07N 0132244.09E GUND 116.4 ft	THR 236.3 ft TDZ 237 ft
11	105.31° GEO 101° MAG	799 x 18	PCN 10 F/B/X/T ASPH	553123.34N 0132135.14E GUND 116 ft	THR 232 ft
29	285.32° GEO 281° MAG	799 x 18	PCN 10 F/B/X/T ASPH	553116.51N 0132219.11E GUND 116 ft	THR 228 ft

Designations RWY NR	Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	RESA dimensions (m)
1	7	8	9	10	11
17	See ESMS AOC	-	300 x 180	2920 x 300	218 x 90
35	See ESMS AOC	-	300 x 180	2920 x 300	218 x 90
11	Info not avbl	-	-	859 x 60	-
29	Info not avbl	-	-	859 x 60	-

Designations RWY NR	Location/ description of arresting system	OFZ (Yes/No)	Remarks
1	12	13	14
17	-	Yes	-
35	-	Yes	-
11	-	No	Non instrument, VFR daylight
29	-	No	Non instrument, VFR daylight

ESMS 2.13 DECLARED DISTANCES

RWY	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
17	2800	3100	2800	2800	-
35	2800	3100	2800	2800	-
11	799	799	799	799	-
29	799	799	799	799	-

DECLARED DISTANCES TAKE-OFF INTERSECTIONS

RWY	INTERSECTION	TORA (m)	TODA (m)	ASDA (m)	Remarks	
1		2	3	4	5	6
17	TWY A	2163	2463	2163	-	-
35	TWY B	2052	2352	2052	-	-

ESMS 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT Type, LEN INTST	THR LGT Colour WBAR	VASIS (MEHT)	TDZ LGT LEN	RWY Centre Line LGT LEN, Spacing Colour INTST	RWY Edge LGT LEN, Spacing Colour INTST	RWY End LGT Colour WBAR	SWY LGT LEN, Colour
1	2	3	4	5	6	7	8	9
17	Barrette CL CAT II 900 m LIH	Green	PAPI Left/3.00° (59.0 ft)	White 900 m	2800/30 m 0-1900 m white 1900-2500 m white/red 2500-2800 m red LIH	2800/60 m White Caution zone 600 m yellow LIH	Red	-
35	Barrette CL CAT I 900 m LIH	Green	PAPI Left/3.00° (60.4 ft)	-	2800/30 m 0-1900 m white 1900-2500 m white/red 2500-2800 m red LIH	2800/60 m White Caution zone 600 m yellow LIH	Red	-
10 Remarks: RWY 17: LED lights on RTHL, RTZL, RCLL, REDL and RENL. See also ESMS 2-1 RWY 35: LED lights on RTHL, RCLL, REDL and RENL. See also ESMS 2-1								

ESMS 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

- | | | |
|----|--|--|
| 1. | ABN/IBN location, characteristics and hours of operation | - |
| 2. | LDI location and LGT
Anemometer location and LGT | Lighted windsock at PAPI 17. Unlighted windsocks at PAPI 35, between TWY C and D, at rescue station and south of FATO.
At aiming points, unlighted. |
| 3. | TWY edge and centre line lighting | Edge: TWY H, J

CL: TWY A, B, C, D, Y

LED lights on TWY centre line and edge lights
LED lights on all RGL
LED lights on all STOP bars |
| 4. | Secondary power supply/switch-over time | Available/1 sec |
| 5. | Remarks | See also ESMS 2-1 and ESMS 2-3 |

ESMS 2.16 HELICOPTER LANDING AREA

1.	Coordinates TLOF or THR of FATO Geoid undulation	553202.76N 0132153.37E 116 FT
2.	FATO and TLOF elevation	219 FT
3.	Dimensions (m) Bearing strength (Tonnes) Surface and type Markings	13 x 13 6 ASPH White edges and white letter H
4.	True BRG of FATO	084.80°/264.80°
5.	Declared distances available	-
6.	APP and FATO lighting	No
7.	Remarks	Swedish police flights only. For other helicopter traffic any RWY to be used.

ESMS 2.17 ATS AIRSPACE

1.	Designation and lateral limits	STURUP CTR	554024N 0132711E - 553310N 0133215E - 552436N 0133119E - 552344N 0131820E - 553101N 0131255E - 553931N 0131347E - 554024N 0132711E
2.	Vertical limits	STURUP CTR	<u>2000 ft AMSL</u> GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	STURUP TOWER	Swedish/English
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	CTR established during hours of TWR.	

ESMS 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	STURUP TOWER	118.805	H24	Primary channel
		121.500	H24	-
		121.705	HO	-
ATIS	STURUP ATIS	129.280	H24	D-ATIS service available

ESMS 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
LOC 17 ILS CAT II (4° E 2020)	NMS	111.90 MHz	HO	553114.2N 0132245.9E		277 m beyond THR 35 LOC Class II/E/3
GP		331.10 MHz	HO	553244.1N 0132236.0E		Angle 3.0° RDH 57.0 ft 295 m past THR 17 left side GP Class II/T/3
LOC 35 ILS CAT II (4° E 2020)	SMS	108.10 MHz	HO	553302.2N 0132223.7E		285 m beyond THR 17 LOC Class II/E/3 Limited coverage below 2500 ft at distance 46.3 km (25NM)
GP		334.70 MHz	HO	553134.2N 0132250.4E		Angle 3.0° RDH 52.2 ft 330 m past THR 35 right side GP Class II/T/3
VOR/DME (4° E 2020)	SUP	113.00 MHz	H24	553204.3N 0132246.5E	259 ft	DME channel 77X
DME	NMS	111.90 MHz	H24	553244.1N 0132236.3E	244 ft	DME channel 56X
DME	SMS	108.10 MHz	H24	553134.2N 0132250.7E	268 ft	DME channel 18X

ESMS 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. Allmänt

Undantag från krav på dubbelriktad radioförbindelse med TWR kan medges endast för överföringsflygning till eller från flygplatsen i samband med erforderligt underhållsarbete på flygplanet.

Mellan 2100–0600 (2000–0500) tillåts endast tomgångsreversering.

APU skall inte användas vid parkering vid andra tillfällen än då så krävs för motorstart eller för reglering av kabintemperatur. Därvid får APU startas tidigast 5 min före beräknad tid för push-back eller taxning. Då utomhustemperaturen överstiger 25° C, och då cirkulation av kabinluften inte är möjlig på annat sätt medges dock start av APU i max 20 minuter före beräknad tid för push-back eller taxning.

Ankommande med allmänflyg, vars maximala startmassa är 10 ton eller mindre skall alltid beställa transport mellan flygplanets parkeringsplats och terminalbyggnaden. Beställning av transport görs på kanal 118.805 alternativt TEL 010 109 63 42.

LOCAL TRAFFIC REGULATIONS

1. General

Exemptions from the requirement for Two-way radio communication with TWR will only be granted for ferry flight to or from the aerodrome in connection with necessary maintenance on the aircraft.

Between 2100–0600 (2000–0500) only idle reverse is permitted.

APU shall not be used on parking unless required for engine start or adjustment of cabin heat. On these occasions APU must not be started earlier than 5 min before estimated time for push-back or taxiing. When the outside temperature exceeds 25° C and when air cannot otherwise be circulated in the cabin, APU may be started at a maximum of 20 minutes before estimated time for push-back or taxiing.

Arriving non commercial traffic with a take-off mass of 10 tonnes or less shall request transport between stand and terminal. Request shall be made on channel 118.805 or TEL +46 (0)10 109 63 42.

2. Föreskrifter för markrörelser

Ankomst

Tremotoriga flygplan skall stänga av mittmotorn innan flygplanet kommer in på plattan. Är dockningssystemet inte aktiverat, skall flygplanet omedelbart stoppas och en »Follow-me»-bil eller rangervakt skall inväntas. Ankommande flygplan till plats 22 och 24 får ej använda högre effekt än idle thrust. I övriga fall skall bogsering ske.

Avgång

Uppstart, push-back och taxning skall föregås av godkännande från ATC. Flygplanets parkering skall anges vid anropet.

3. Restriktioner för skol- och övningsflygning

a) Tillstånd för skol- och övningsflygning skall i förväg inhämtas från TWR på telefon 040 613 15 50.

b) Start- och landningsövningar och upprepade instrumentinflygningar tillåts endast under tiden 0600–2100 (0500–2000), vissa helger undantagna (nyårsdagen, trettondagen, långfredag, påskafton, påskdagen, annandag påsk, valborgsmässoafton, första maj, Kristi himmelfärdsdag, pingstafton, pingstdagen, nationaldagen, midsommarafton, midsommardagen, alla helgons dag, julafton, juldagen, annandag jul och nyårsafton).

c) För flygplan med MTOM överstigande 5700 kg får trafikvarv och cirkling endast utföras i högervarv till RWY 17 och i vänstervarv till RWY 35. Trafikvarvet skall ligga W om förlängningslinjen genom RWY 17/35.

4. D-ATIS

D-ATIS tillgängligt via ACARS för FPL utrustade med ACARS-MU. (AEEC 623 kompatibla) (ARINC är leverantör för datalänkkommunikation och ESMS flygplats för ATIS service.)

2. Ground movement procedures

Arrival

Three-engined aircraft shall shut down the middle engine before entering apron. If the docking guidance system has not been activated, the aircraft shall be stopped immediately, and a Follow-me car or a marshal shall be waited for. Arriving aircraft to stand 22 and 24 shall not use more than idle thrust. Use of brake-away thrust not permitted, under these circumstances towing is mandatory.

Departure

Start-up, push-back and taxiing is subject to prior permission from ATC. The aircraft position shall be stated in the initial call.

3. Restrictions for school and training flights

a) School and training flights by prior permission from TWR on phone +46 (0)40 613 15 50.

b) Take-off and landing exercises and repeated instrument approaches are permitted 0600–2100 (0500–2000) only, certain holidays excluded (New Year's Day, Epiphany, Good Friday, Easter Eve, Easter Day, Easter Monday, Walpurgis Night, May Day, Ascension Day, Whitsun Eve, Whitsun Day, National Day, Midsummer Eve, Midsummer Day, All Saints Day, Christmas Eve, Christmas Day, Boxing Day and New Year's Eve).

c) For ACFT with MTOM exceeding 5700 kg aerodrome traffic circuits and circling are to be carried out as right hand circuits to RWY 17 and left hand circuits to RWY 35. The traffic circuit shall be flown W of the extended centre line of RWY 17/35.

4. D-ATIS

D-ATIS service available by ACARS for ACFT equipped with ACARS-MU. (AEEC 623 compliant) (Provider is ARINC for datalink com and ESMS airport for ATIS service.)

ESMS 2.21 MINSKNING AV BULLERSTÖRNING

Över tätbebyggt område

Över de centrala delarna av Malmö och Lund samt över tätbebyggda områden runt Malmö flygplats bör luftfartyg inte framföras på lägre höjd än 2000 ft AMSL utom då så är nödvändigt i samband med start och landning.

Angivna flygvägar för ankommande och avgående trafik har upprättats även för att minska bullerstörningar. Luftfartyg skall noggrant följa i färdtillståndet angiven flygväg samt i övrigt framföras så att onödiga bullerstörningar inte förorsakas.

ESMS 2.22 FLYGPROCEDURER

Beträffande trafik genom Malmö TMA på väg till eller från København/Kastrup, se även AIP Danmark.

NOISE ABATEMENT PROCEDURES

Over built up areas

Over the central parts of Malmö and Lund and over built up areas around Malmö aerodrome aircraft should not be operated below 2000 ft AMSL except when necessary for take-off or landing.

The routes for inbound and outbound traffic have been established also for noise abatement purposes. Aircraft shall strictly adhere to assigned route and be operated in such a manner that unnecessary noise disturbances are not caused.

FLIGHT PROCEDURES

As regards traffic through Malmö TMA bound for or departing from København/Kastrup, see also AIP Denmark.

1. Ankommande IFR-trafik inom Malmö TMA och Sturup CTR

Allmänt

Ankommande trafik till MALMÖ skall färdplanera via BAKLI, DETUS, EKRAL, ERNOV, RASMU, ROE.

Anm. Berör ej ankommande trafik från destinationer inom Köbenhavn TMA och Malmö TMA.

Flygvägar

STAR är upprättade enligt sid ESMS 4-13 t.o.m. 4-19.

Höjdrestriktioner

Förare skall planera inpassering i Malmö TMA på höjder enligt STAR-beskrivningar publicerade på sid ESMS 4-13 t.o.m. 4-19. Klarering för lämnande av höjd ges av ATC. Kan angiven höjd inte följas, meddela ATC och ange orsak.

Väntning (Ref ENR 1.3 mom 9)

Väntlägen är upprättade enligt sid ESMS 4-1.

Hastighetsanpassning - ankommande trafik

Lufffartyg som är etablerat på grundlinjen för slutlig inflygning ska bibehålla 160 kt IAS eller högre till NMS/SMS DME 4.0, om inte annat begärs av ATC. Om detta inte är möjligt, skall ATC underrättas härom.

2. Avgående IFR-trafik inom Malmö TMA och Sturup CTR

Allmänt

Avgående trafik från MALMÖ skall färdplanera via DISGO, EKRAL, ERNOV, NEXIL, SALLO, TELMO, BABSJ.

Anm. Berör ej avgående trafik med destination inom Köbenhavn TMA och Malmö TMA.

Flygvägar

SID upprättade enligt sid ESMS 4-5 t.o.m. 4-12.

Stiggradient på SID

Lufffartyg som flyger på SID från MALMÖ skall använda en stiggradient av minimum 400 ft per NM upp till 4000 ft AMSL. Lufffartyg som inte kan uppfylla detta villkor skall meddela ATS härom.

3. Startprocedurer, omnidirectional

1. Inbound IFR traffic within Malmö TMA and Sturup CTR

General

Inbound traffic to MALMÖ shall be flight planned via BAKLI, DETUS, EKRAL, ERNOV, RASMU, ROE.

Note: Traffic arriving from destinations within Copenhagen TMA and Malmö TMA not affected.

Routes

STARs established in accordance with page ESMS 4-13 through 4-19.

Descent planning

Pilots shall plan the descent into Malmö TMA in accordance with STAR descriptions as published on page ESMS 4-13 through 4-19. Actual descent clearance will be as directed by ATC. If unable to comply, inform ATC stating reason for non-compliance.

Holdings (Ref ENR 1.3 para 9)

Holding patterns are established in accordance with page ESMS 4-1.

Speed adjustment - inbound traffic

When established on final approach track, aircraft shall maintain 160 kt IAS or more until passing NMS/SMS DME 4.0, unless otherwise instructed. If this is not practicable, ATC shall be notified accordingly.

2. Outbound IFR traffic within Malmö TMA and Sturup CTR

General

Outbound traffic from MALMÖ shall be flight planned via DISGO, EKRAL, ERNOV, NEXIL, SALLO, TELMO, BABSJ.

Note: Traffic with destination within Copenhagen TMA and Malmö TMA not affected.

Routes

SIDs established in accordance with page ESMS 4-5 through 4-12.

Climb gradient on SID

Aircraft proceeding on SID from MALMÖ shall use a minimum gradient of climb of 400 ft per NM up to 4000 ft AMSL. Aircraft unable to conform to this procedure shall inform ATS accordingly.

3. Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
17	Climb straight ahead with MNM 250 ft/NM (4%) to MNM turning ALT 700 ft. Continue climb to appropriate MSA.	Antenna	405	168°/4600
35	Climb straight ahead to MNM turning ALT 700 ft. Continue climb to appropriate MSA.	-		

4. Avbrott i radioförbindelse

Lufffartyg skall följa de föreskrifter som anges i ENR 1.3 mom 10. Under IMC gäller dessutom följande.

4. Communication failure

Aircraft shall adhere to the procedures stipulated in ENR 1.3 para 10. In addition, in IMC the relevant procedures below shall be applied.

Ankommande klarering inte mottagen och/eller kvitterad.

Luffartyget skall, med bibehållande av senast tilldelad och kvitterad flyghöjd, flyga via aktuell inpasseringspunkt i TMA direkt till TIDVU och därefter till SUP VOR varefter instrumentinflygning påbörjas. Om senast tilldelade och kvitterade höjd är högre än FL 70 skall plané utföras i väntläge TIDVU. Efter passage TIDVU mot SUP VOR skall plané från FL 70, eller senast tilldelade och kvitterade höjd om lägre, utföras till höjd för inledande inflygning.

Avbruten inflygning

Stig rakt fram till 2500 ft AMSL. Därefter vänstersväng till SUP VOR för ny instrumentinflygning.

5. Lågsiktsprocedurer (LVP)

Kategori II väntplatser används för RWY 17 och 35. Start från framflyttad startposition TWY A eller B är inte tillgänglig.

Banan skall lämnas vid banslut eller via TWY A eller B. Förare bör anmäla "Har lämnat ILS skyddsområde" när luffartyget har passerat färgkodad del av centrumlinjeljus i taxibana.

Vägledning för taxning genom selektiv upptändning av centrumlinjeljus i taxibana.

LVP träder i kraft senast när RVR underskrider 550 m och/eller vertikalsikten underskrider 200 ft. Meddelande om att LVP är i kraft lämnas via ATIS eller radio.

Mindre förseningar kan förekomma. Skolflygning accepteras ej.

Markrörelseradar (SMR) är inte tillgänglig.

Vid bansynvidd mindre än 300 m är taxning på TWY E ej tillåtet.

6. VFR flygning inom Malmö TMA

Luffartyg skall följa de föreskrifter som anges i ENR 1.2.

7. VFR flygning inom Sturup CTR

Luffartyg skall följa de föreskrifter som anges i ENR 1.2. Därutöver gäller följande:

Normala in- och utpasseringspunkter
Se ESMS 6-1.

Väntlägen

a) VÄST Vänstervarv väster om Fjällfotasjöns östra strandlinje

b) OST Vänstervarv öster om Björkesåkrasjön
Se ESMS 6-1.

Avbrott i radioförbindelse
Se ESMS 6-1.

ESMS 2.23 ÖVRIG INFORMATION

1. Stigprofil inom Köpenhamn FIR

No inbound clearance received and/or acknowledged.

The aircraft shall, maintaining the level last received and acknowledged, proceed via the relevant TMA entry point direct to TIDVU. After passing TIDVU proceed to SUP VOR for an instrument approach. If last received and acknowledged altitude is higher than FL 70 descent shall be made in TIDVU holding. After passing TIDVU towards SUP VOR descend from FL 70 or level last received and acknowledged if lower, to an altitude for initial approach.

Missed approach

Climb straight ahead to 2500 ft AMSL. Then turn left to SUP VOR for a new instrument approach.

5. Low visibility procedures (LVP)

Cat II taxi-holding position to be used for RWY 17 and 35. Take-off from intersections TWY A or B is not permitted.

Vacation of RWY via runway ends or via TWY A or B. Pilots should report "ILS sensitive area vacated" when the aircraft is clear of the colour coded taxiway centre line lights.

Taxi guidance by selective switching on of TWY centre line lights.

LVP will be in force at latest when the RVR falls below 550 m and/or vertical visibility falls below 200 ft. The application of LVP will be announced by ATIS or RTF.

Minor delays may occur. School and training flights are not accepted.

Surface movement radar (SMR) is not available.

Taxiing on TWY E is not permitted when RVR falls below 300 m.

6. VFR flight within Malmö TMA

Aircraft shall adhere to the procedures stipulated in ENR 1.2.

7. VFR flight within Sturup CTR

Aircraft shall adhere to the procedures stipulated in ENR 1.2. In addition, the following shall be applied.

Normal entry and exit points
See ESMS 6-1.

Holding points

a) WEST Left circuit west of the eastern shoreline of lake Fjällfotasjön

b) EAST Left circuit east of lake Björkesåkrasjön
See ESMS 6-1.

Communication failure
See ESMS 6-1.

ADDITIONAL INFORMATION

1. Climb profile in Copenhagen FIR

Lufffartyg som begär marschhöjd på eller över FL260 efter passage av Alsie VOR eller MICOS och som startar från flygplatser inom Copenhagen Area eller MALMÖ TMA anmodas att planlägga stigningen så att luftfartyget kan passera Alsie VOR eller MICOS på eller över FL260.

2. Förhandstillstånd (PPR) inom Malmö TMAs sidogränser FL 195 och därunder i kontrollerat luftrum (ESMS CTR undantaget).

PPR krävs för följande flygningar inom Malmö TMAs sidogränser FL 195 och därunder i kontrollerat luftrum (ESMS CTR undantaget):

- Fotoflyg är normalt inte tillåtet MÅN-FRE mellan 0500-0900 (0400-0800) och 1600-2100 (1500-2000) samt SÖN mellan 1600-2100 (1500-2000).

Fotoflyg ges normalt inte tillstånd att bedriva verksamhet under 5000 ft inom Malmö TMA sektor a+c. Flygningen inom Malmö TMA sektor a+c förväntas ske på höjder i hela 1000-tals fot eller jämna FL t.ex. 5000 ft, 6000 ft FL70 o.s.v.

Flygningen kan bli flyttad eller inställd på planerad flygdag, av WS ATCC Malmö, om den aktuella trafiksituationen i området så kräver.

Avsteg ifrån tids- och höjdbegränsning kan göras av WS ATCC Malmö.

- Skol- och övningsflyg som avser ligga i holding eller göra airwork.
- Planerad kontrollflygning (mätflygning) av navigerings- och inflygningshjälpmedel.
- Fällning av fallskärmshoppare som inte tidigare reglerats i avtal med ATCC Malmö.
- Prospekteringsflyg.
- Geologisk mätflygning och liknande.
- Testflygningar.

Statsluftfartyg är undantagna.

Innan färdplan lämnas in ska förhandstillstånd inhämtas hos Watch Supervisor ATCC Malmö.

Detta ska göras på helgfri vardag, 0600-1400 (0500-1300), hos Watch Supervisor ATCC Malmö
TEL +46 (0)40 613 24 00.

Kartunderlag och liknande skickas till Watch Supervisor ATCC Malmö wsesmm@lfv.se

Verksamhet som endast berör ESTA, ESTL och ESMK TMA är undantagna under deras publicerade öppethållning.

3. Verksamhet med stora flygplan

Som stora flygplan betraktas flygplan som har vingspann överstigande 65m.

Aircraft requesting cruising levels at or above FL260 after VOR Alsie or after MICOS and departing from aerodromes within Copenhagen Area and Malmö TMA are advised to arrange the climb such that the aircraft will be able to pass Alsie VOR or MICOS at or above FL260.

2. Prior Permission Required (PPR) within Malmö TMAs lateral limit FL 195 and below in controlled airspace (ESMS CTR exempted).

PPR is required for the following flights within Malmö TMAs lateral limits FL 195 and below in controlled airspace (ESMS CTR exempted):

- Aerial photography is normally not permitted MON-FRI between 0500-0900 (0400-0800) and 1600-2100 (1500-2000), SUN between 1600-2100 (1500-2000).

Aerial photography is normally not permitted below 5000 ft within Malmö TMA sektor a+c. These flights are expected to be executed at altitudes of 1000 ft and FL, e.g. 5000 ft, 6000 ft and FL70 etc.

The flight might be repositioned or cancelled on the day for the flight, by WS ATCC Malmö, due to the actual traffic situation in the sector.

Deviations from the time limits and/or altitude restrictions may be made by WS ATCC Malmö.

- School- and training flights that intend to join a holding or do airwork.
- Preplanned calibration flight for navigation- and approach aids.
- Parachute drop that are not previously regulated in a Letter of Agreement with ATCC Malmö.
- Exploration flight.
- Flight performing geological survey and similar.
- Test flights.

State aircrafts are exempted.

Before submitting a flight plan, the operator shall obtain a prior authorization with Watch Supervisor ATCC Malmö. This should be done on weekdays, Monday to Friday (not possible on public holidays) 0600-1400 (0500-1300) with Watch Supervisor ATCC Malmö on phone +46 (0)40 613 24 00.

Maps and similar documentation are sent to Watch Supervisor ATCC Malmö at wsesmm@lfv.se

An operation that only concerns ESTA, ESTL and ESMK TMA is exempted during their published opening hours.

3. Operations with large aircraft

Large aircraft is considered as aircraft with wingspan with more than 65 m.

3.1 A380 verksamhet

- RWY 17/35 kommer att användas för start och landning.
- RWY avfart Y THR 17 och 35 är godkända.
- RWY påfart Y THR 17 och 35 är godkända.
- Idle thrust ska användas på yttermotorerna vid taxning.
- Överstyrningsteknik ska användas enligt befälhavarens bedömning.
- Parkering kommer företrädesvis att utföras på plats 20 på platta S.
- A380 pushbackstäng finns inte tillgänglig på flygplatsen. Operatör ansvarar själv för att säkerställa egen utrustning.
- A380 operatör är ansvarig för att kontraktera marktjänstföretag före användandet av flygplatsen.

3.2 An-124 verksamhet

- RWY 17/35 kommer att användas för start och landning.
- RWY avfart Y THR 17 och 35 är godkända.
- RWY påfart Y THR 17 och 35 är godkända.
- Idle thrust ska användas på yttermotorerna vid taxning.
- Överstyrningsteknik ska användas enligt befälhavarens bedömning.
- Parkering kommer företrädesvis att utföras på plats 20 på platta S.
- An-124 operatör är ansvarig för att kontraktera marktjänstföretag före användandet av flygplatsen.

3.3 B747-8 verksamhet

- RWY 17/35 kommer att användas för start och landning.
- RWY avfart Y THR 17 och 35 är godkända.
- RWY påfart Y THR 17 och 35 är godkända.
- Idle thrust ska användas på yttermotorerna vid taxning.
- Överstyrningsteknik ska användas enligt befälhavarens bedömning.
- Parkering kommer företrädesvis att utföras på plats 20 på platta S.
- B747-8 operatör är ansvarig för att kontraktera marktjänstföretag före användandet av flygplatsen.

4. Växelvis ATS-tjänst

ATS-tjänst bedrivs växelvis från nuvarande TWR på Malmö flygplats och från RTC Stockholm.

5. Signalstrålkastare

Signalstrålkastare placerad både på R-TWR och på nuvarande ATS TWR.

3.1 A380 operations

- RWY 17/35 will be used for landing and take-off.
- RWY exit Y THR 17 and 35 are approved.
- RWY entry Y THR 17 and 35 are approved.
- Idle thrust shall be used on outer engines when taxiing.
- Judgemental oversteer shall be used.
- Parking will primarily take place at stand 20 on apron S.
- A380 towbar is not available at the airport. Operator shall secure for arrangements with own equipment.
- A380 operator is responsible for contracting handling company before using the airport.

3.2 An-124 operations

- RWY 17/35 will be used for landing and take-off.
- RWY exit Y THR 17 and 35 are approved.
- RWY entry Y THR 17 and 35 are approved.
- Idle thrust shall be used on outer engines when taxiing.
- Judgemental oversteer shall be used.
- Parking will primarily take place at stand 20 on apron S.
- An-124 operator is responsible for contracting handling company before using the airport.

3.3 B747-8 operations

- RWY 17/35 will be used for landing and take-off.
- RWY exit Y THR 17 and 35 are approved.
- RWY entry Y THR 17 and 35 are approved.
- Idle thrust shall be used on outer engines when taxiing.
- Judgemental oversteer shall be used.
- Parking will primarily take place at stand 20 on apron S.
- B747-8 operator is responsible for contracting handling company before using the airport.

4. Alternating Air Traffic Service

Air Traffic Service (ATS) provided alternately from existing TWR at Malmö AD and RTC Stockholm.

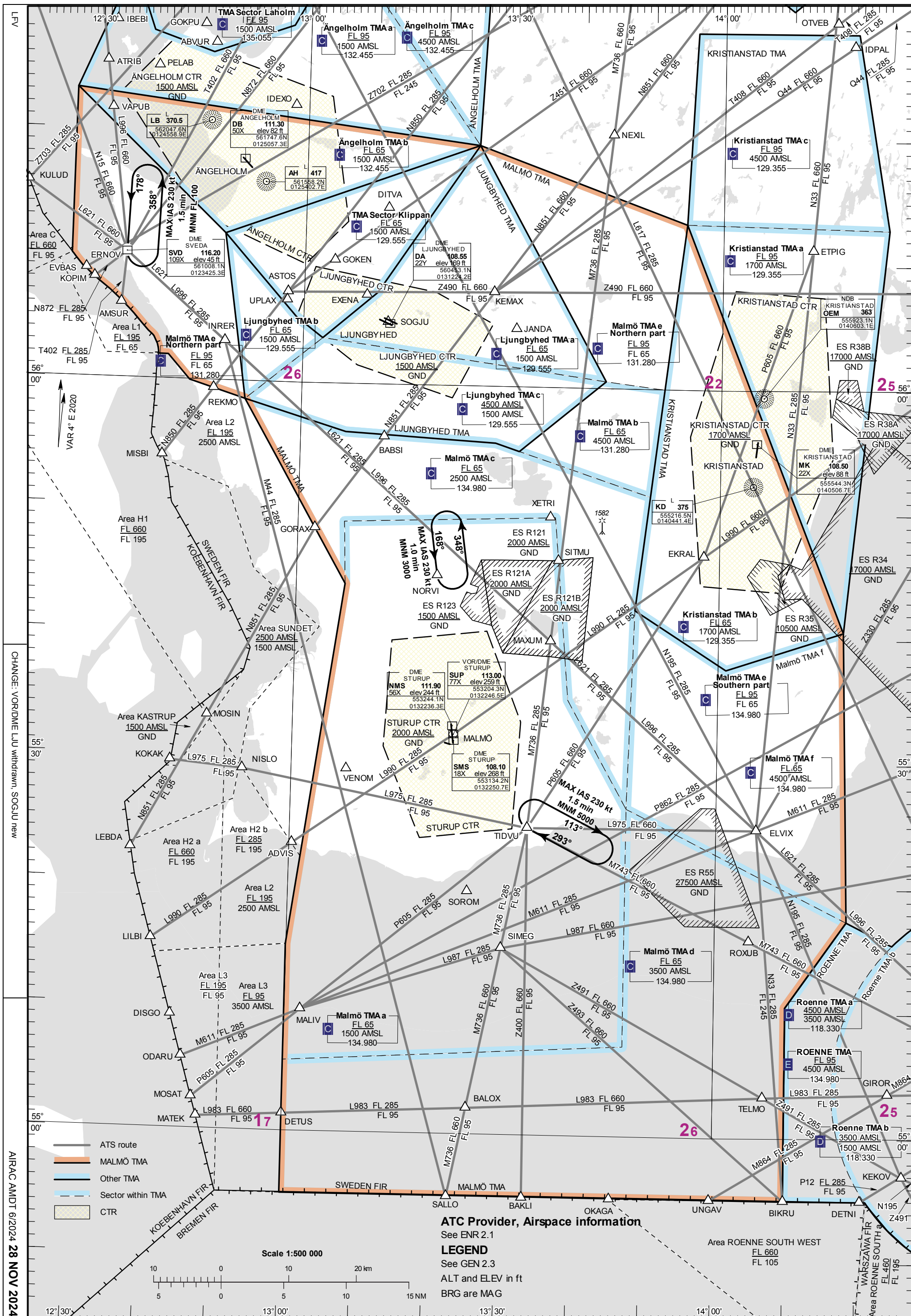
5. Signaling lamp

Signaling lamp positioned at R-TWR and on existing ATS TWR.

ESMS 2.24 TILLHÖRANDE KARTOR

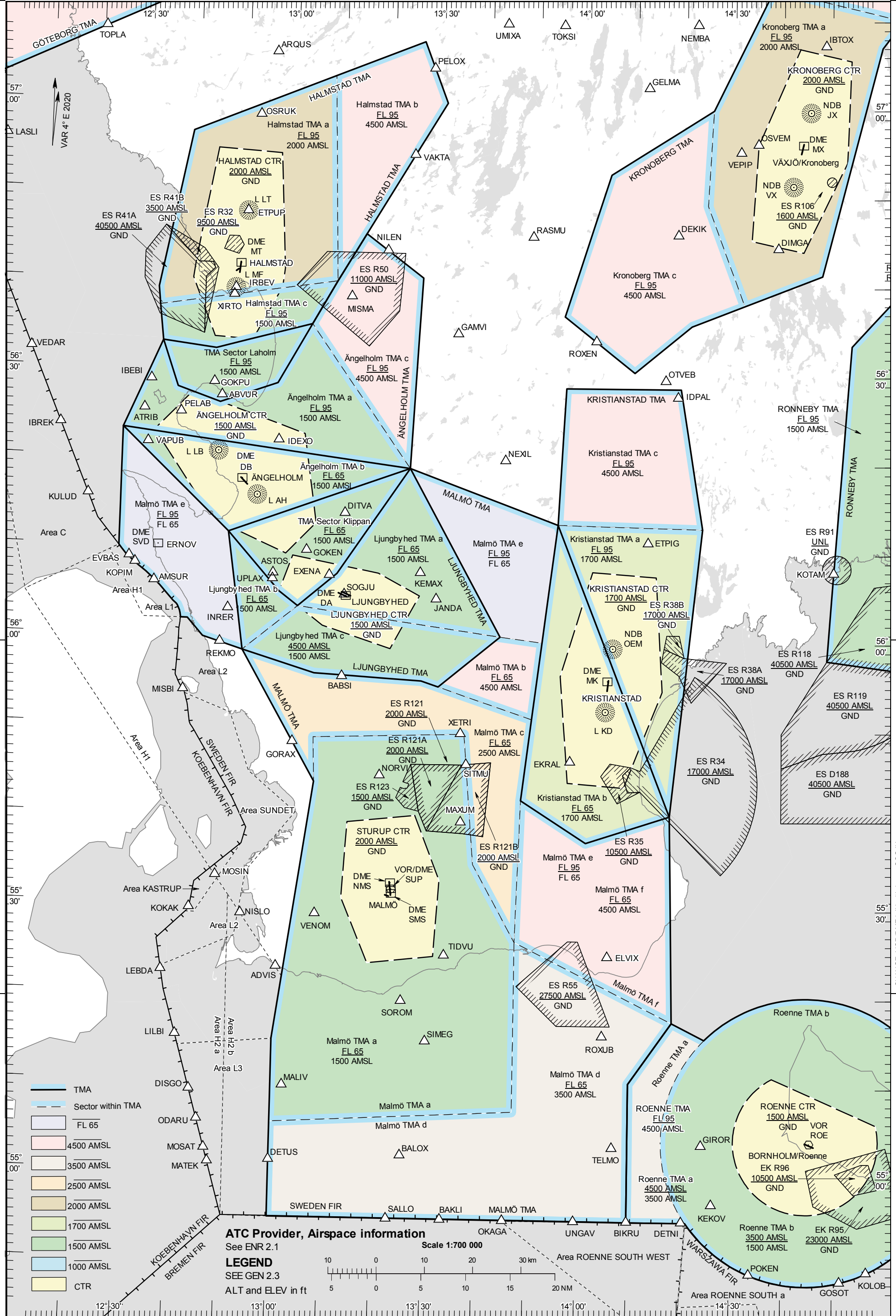
RELATED CHARTS

AD chart		ESMS 2-1
Parking/docking chart		ESMS 2-3
AOC	RWY 17/35	ESMS-3-1
PATC	RWY 17	ESMS-3-3
PATC	RWY 35	ESMS 3-5
Area chart	(TMA)	ESMS 4-1
Area chart		ESMS 4-2
List of waypoints and significant points		ESMS 4-3
RNAV (GNSS) SID	RWY 17	ESMS 4-5
RNAV (GNSS) SID	RWY 35	ESMS 4-9
RNAV (GNSS) STAR	RWY 17	ESMS 4-13
RNAV (GNSS) STAR	RWY 35	ESMS 4-17
ATC Surveillance		
Minimum ALT Chart		ESMS 4-91
IAC	ILS or LOC RWY 17	ESMS 5-1
IAC	VOR RWY 17	ESMS 5-2
IAC	ILS or LOC RWY 35	ESMS 5-3
IAC	VOR RWY 35	ESMS 5-5
IAC	RNP z RWY 17	ESMS 5-7
IAC	RNP y RWY 17 (AR)	ESMS 5-9
IAC	RNP z RWY 35	ESMS 5-11
IAC	RNP y RWY 35 (AR)	ESMS 5-13
VAC		ESMS 6-1



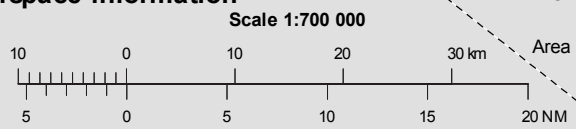
CHANGE: VORDME LJU withdrawn, SOGJU new

AIRAC AMDT 6/2024 28 NOV 2024



- TMA
- Sector within TMA
- FL 65
- 4500 AMSL
- 3500 AMSL
- 2500 AMSL
- 2000 AMSL
- 1700 AMSL
- 1500 AMSL
- 1000 AMSL
- CTR

ATC Provider, Airspace information
 See ENR 2.1
LEGEND
 SEE GEN 2.3
 ALT and ELEV in ft



CHANGE: VOR/DME LJU withdrawn, SOGJU new

28 NOV 2024 AIRAC AMDT 6/2024

AIP SWEDEN

ATC Surveillance Minimum Altitude Chart - MALMÖ

AD 2 ESMS 4-91

AD ELEV 237 FEET
HGT and ALT in ft
TA 5000 AMSL

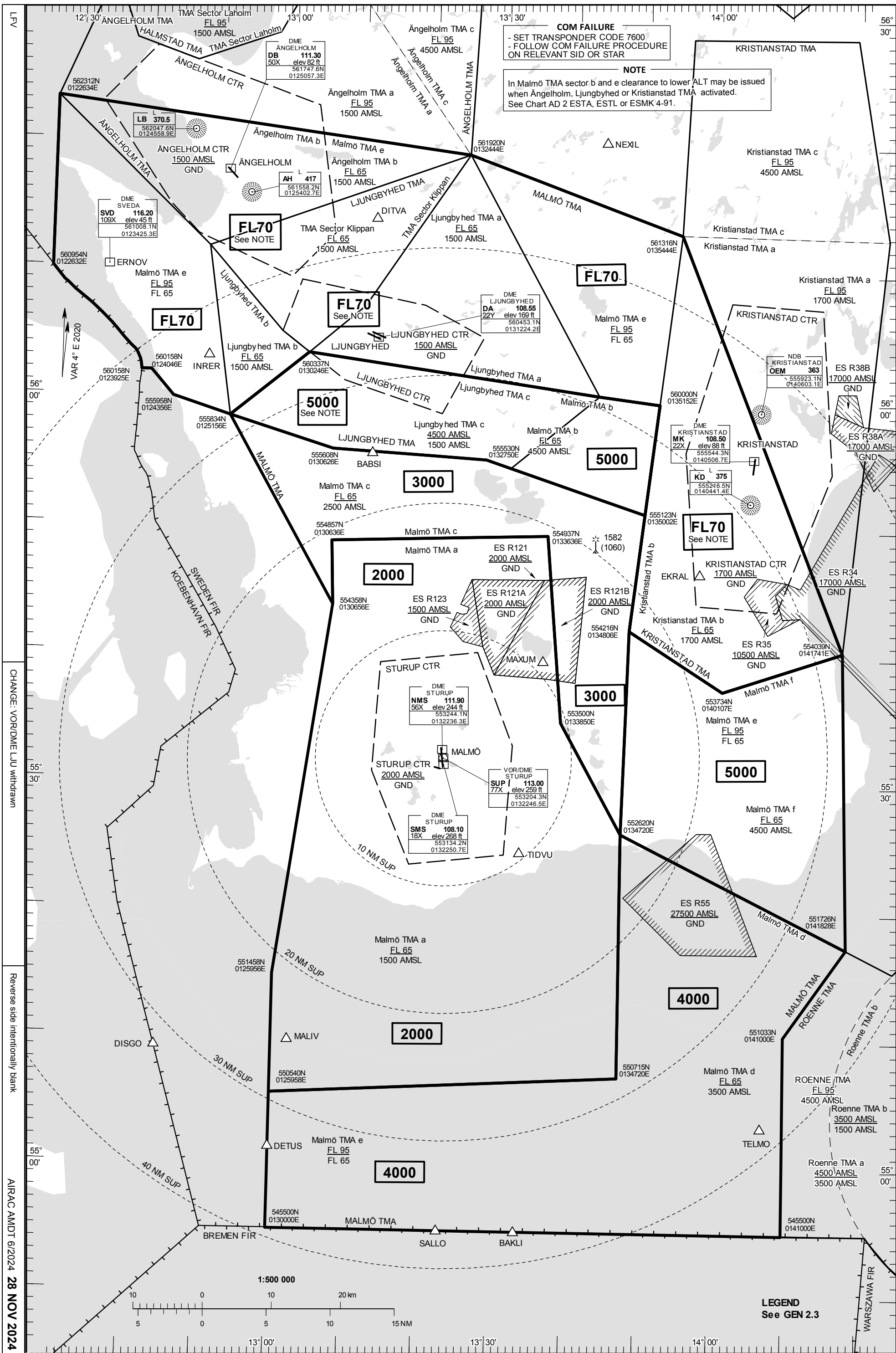
STURUP TOWER 118.805
121.705

STURUP ATIS 129.280

THIS CHART MAY ONLY BE USED FOR CROSS-CHECKING OF ASSIGNED ALTITUDES WHILE IN RECEIPT OF RADAR SERVICE
LEVELS ASSIGNED BY ATC INCLUDE A CORRECTION FOR LOW TEMPERATURE EFFECT

COM FAILURE
- SET TRANSPONDER CODE 7600
- FOLLOW COM FAILURE PROCEDURE ON RELEVANT SID OR STAR

NOTE
In Malmö TMA sector b and e clearance to lower ALT may be issued when Ängelholm, Ljungbyhed or Kristianstad TMA activated.
See Chart AD 2 ESTA, ESTL or ESMK 4-91.



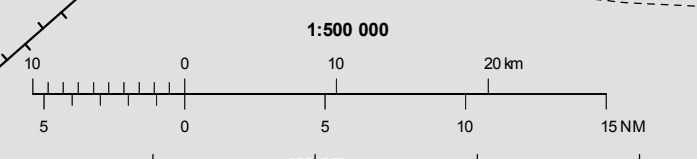
LFV

VAR 4° E 2020

CHANGE: VORDMELJU withdrawn

Reverse side intentionally blank

AIRAC AMDT 6/2024 28 NOV 2024



LEGEND
See GEN 2.3

ESSP 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	Apron surface and strength	Apron ASPH PCN 55 F/B/X/T
2.	Taxiway width, surface and strength	TWY B 23 m ASPH PCN 55 F/B/X/T TWY C 15 m ASPH PCN 55 F/B/X/T TWY D 6 m ASPH PCN -
3.	ACL, location and elevation	Apron, see AD 2 ESSP 2-1
4.	VOR checkpoints	See AD 2-ESSP 2-1
5.	INS checkpoints	See AD 2-ESSP 2-1
6.	Remarks	-

ESSP 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of ACFT stands	Taxi guide lines and signs. Marshalling available
2.	RWY and TWY markings and LGT	RWY 09/27: Designator, THR, TDZ, CL, edges day marked. RTHL, REDL, RENL. 11/29: Marked by cones, no lights TWY B: CL, HLDG day marked. Edge lights. RGL C: CL, HLDG day marked. Edge lights. RGL. D: CL, HLDG day marked. RGL
3.	Stop bars	-
4.	Remarks	-

ESSP 2.10 AERODROME OBSTACLES

In Area 2					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT in feet	Markings/ Type, colour	Remarks
a	b	c	d	e	f
ESSP1	LOC Monitor	583508.8N 0161619.5E	42 / -	-	-
ESSP2	Forest	583505.8N 0161716.9E	79 / -	-	-
ESSP3	Forest	583503.0N 0161718.6E	107 / -	-	-
ESSP4	Forest	583504.8N 0161724.5E	121 / -	-	-
ESSP5	Forest	583504.4N 0161724.7E	122 / -	-	-
ESSP6	Forest	583503.3N 0161726.0E	128 / -	-	-
ESSP7	Forest	583501.5N 0161728.7E	130 / -	-	-
ESSP8	Forest	583504.4N 0161752.5E	159 / -	-	-
ESSP9	Forest	583507.1N 0161755.5E	162 / -	-	-
ESSP10	Forest	583502.5N 0161801.6E	171 / -	-	-
ESSP11	Forest	583517.0N 0161804.4E	180 / -	-	-
ESSP12	LOC Monitor	583510.1N 0161346.0E	19 / -	-	-
ESSP13	Sign	583513.3N 0161343.3E	23 / -	-	-
ESSP14	Antenna	583512.4N 0161338.7E	32 / -	-	-
ESSP15	Forest	583513.8N 0161324.5E	56 / -	-	-
ESSP16	Forest	583508.6N 0161251.6E	81 / -	-	-
ESSP17	Forest	583505.9N 0161243.6E	90 / -	-	-
ESSP18	Forest	583514.5N 0161238.3E	112 / -	-	-
ESSP19	Antenna	583517.0N 0161222.7E	127 / -	-	-
ESSP20	Building	583510.2N 0161128.5E	166 / -	-	-
ESSP21	Building	583509.3N 0161128.4E	167 / -	-	-
ESSP22	Building	583509.7N 0161128.3E	169 / -	-	-
ESSP23	Spire	583522.9N 0161116.3E	197 / -	-	-
ESSP24	Building	583504.5N 0161042.9E	221 / -	-	-
ESSP25	Lamp post	583506.2N 0161027.4E	281 / -	-	-

In Area 3					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
Not available					

ESSP 2.17 ATS AIRSPACE

1.	Designation and lateral limits	KUNGSÄNGEN CTR	584028N 0161549E - 583828N 0163748E - 583139N 0163728E - 582929N 0161449E - 583259N 0155449E - 583928N 0155449E - 584028N 0161549E
2.	Vertical limits	KUNGSÄNGEN CTR	1600 ft AMSL GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	KUNGSÄNGEN TOWER	Swedish/English
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	CTR established during hours of TWR.	

ESSP 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	KUNGSÄNGEN TOWER	120.355	HO	Primary channel
		121.500	HO	-
APP	ÖSTGÖTA APPROACH	132.955	HO	-

ESSP 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
LOC 09 ILS CAT I (6° E 2020)	KSP	111.10 MHz	HO	583508.8N 0161625.7E		246 m beyond THR 27 ILS Class I/E/2
GP		331.70 MHz	HO	583513.8N 0161412.4E		Angle 3.0° RDH 50.9 ft 295 m past THR 09, left side
LOC 27 ILS CAT I (6° E 2020)	SP	109.50 MHz	HO	583510.1N 0161338.8E		246 m beyond THR 09 ILS Class I/E/2
GP		332.60 MHz	HO	583505.2N 0161548.6E		Angle 3.0° RDH 49.9 ft 352 m past THR 27 left side
L 27	ON	324 kHz	H24	583504.0N 0162255.3E		Range 25 NM
DME	KSP	111.10 MHz	H24	583514.0N 0161412.4E	52 ft	DME channel 48X
DME	SP	109.50 MHz	H24	583505.0N 0161548.6E	63 ft	DME channel 32X

ESSP 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. Tillgänglighet

Start eller landning på flygplatsen är inte tillåten utanför ATS öppethållningstid, med undantag för på flygplatsen baserade verksamheter och besökande till dessa i enlighet med lokala säkerhetsregler. Vid behov av extra öppethållning kontaktas flygplatsen via telefon eller e-post.

2. Skol- och övningsflygning

PPR erfordras för IFR-skolning och för VFR-flygning som avser göra upprepade TGL, TEL 011 14 02 00.

När ÖSTGÖTA APP är stängd får skolflygning inom ÖSTGÖTA TMA utföras endast efter förhandstillstånd från skiftledaren vid STOCKHOLM ACC, TEL 08 585 547 02.

3. Trafikvarv

Utanför flygplatsens/ATS öppethållande ska högervarv tillämpas vid start och landning bana 09 och bana 29. Se även mom 1.ovan.

4. Restriktioner TWY D

TWY D är endast avsedd för trafik med flygplan med sådan bredd på hjulbasen att 1.5 m frigång uppnås på varje sida om hjulbasen i enlighet med CS ADR-DSN.D.240.

5. Markrörelser

Vid markrörelser, utanför manöverområdet, ska piloter sända sina avsikter och passa tornets frekvens.

6. Start av motorer – schemalagd trafik

Schemalagd trafik ska endast starta motorer efter att överenskommelse med rangerare erhållits.

ESSP 2.21 MINSKNING AV BULLERSTÖRNING

1. Flygplatsföreskrifter

Utflygning från RWY 09 och söderut, skall förskjutas åt öster mot Locator ON, så att den ej ligger över Ljunga samhälle.

Då förhållandena så medger skall reversering utöver Idle Reverse eller motsvarande ej användas.

Nattetid 2200–0700 (2100–0600) gäller följande ljud-emissionsvillkor uppmätta enligt Annex 16, Vol 1, Part II, Chapter 3, resp.5:

Startande flygplan:

Ljudemissionen i »flyover» -mätpunkten får ej överstiga 89 EPNdB resp. 94 EPNdB i »sideline» -mätpunkten.

Landande flygplan:

Ljudemissionen i »approach» -mätpunkten får ej överstiga 98 EPNdB.

LOCAL TRAFFIC REGULATIONS

1. Availability

Departure or landing at the aerodrome is not allowed outside ATS hours of operation, except for airportbased businesses and visitors to these in accordance with local safety regulations. For extended hours of operation, contact aerodrome by telephone or e-mail.

2. School and training flights

PPR is required for IFR school and for VFR flights planning to carry out repeated TGL, phone +46 (0)11 14 02 00.

When ÖSTGÖTA APP is not in operation trainingflights within ÖSTGÖTA TMA may be carried out only after prior permission from the Supervisor at STOCKHOLM ACC, phone +46 (0)8 585 547 02.

3. Traffic circuit

Outside the aerodrome/ATS operational hours right hand traffic circuit applies during take-off and landings to RWY 09 and RWY 29. See also para 1 above.

4. Restrictions TWY D

TWY D is intended only for aircraft with a wheel base width such that 1.5 m clearance is achieved on each side of the wheel base in accordance with CS ADR-DSN.D.240.

5. Ground movements

During ground movements, outside the manoeuvring area, pilots shall transmit their intentions and monitor the tower frequency.

6. Engine start – scheduled traffic

Scheduled traffic shall only start engines after agreement with marshaller.

NOISE ABATEMENT PROCEDURES

1. Aerodrome regulations

Departure from RWY 09 and south, must be moved to the east towards Locator ON, so that it is not above Ljunga community.

When conditions permit more than Idle Reverse or equivalent must not be applied.

During night hours 2200–0700 (2100–0600) the noise emission measured in accordance with Annex 16, Vol 1, Part II, Chapter 3 and 5 applies as follows:

Departures:

The emission at the flyover measurement point must not exceed 89 EPNdB and 94 EPNdB at the sideline measurement point respectively.

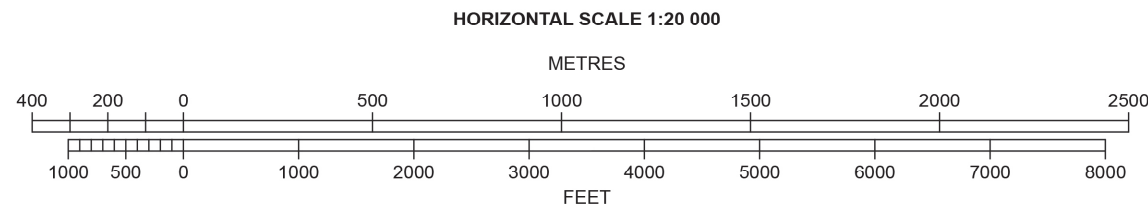
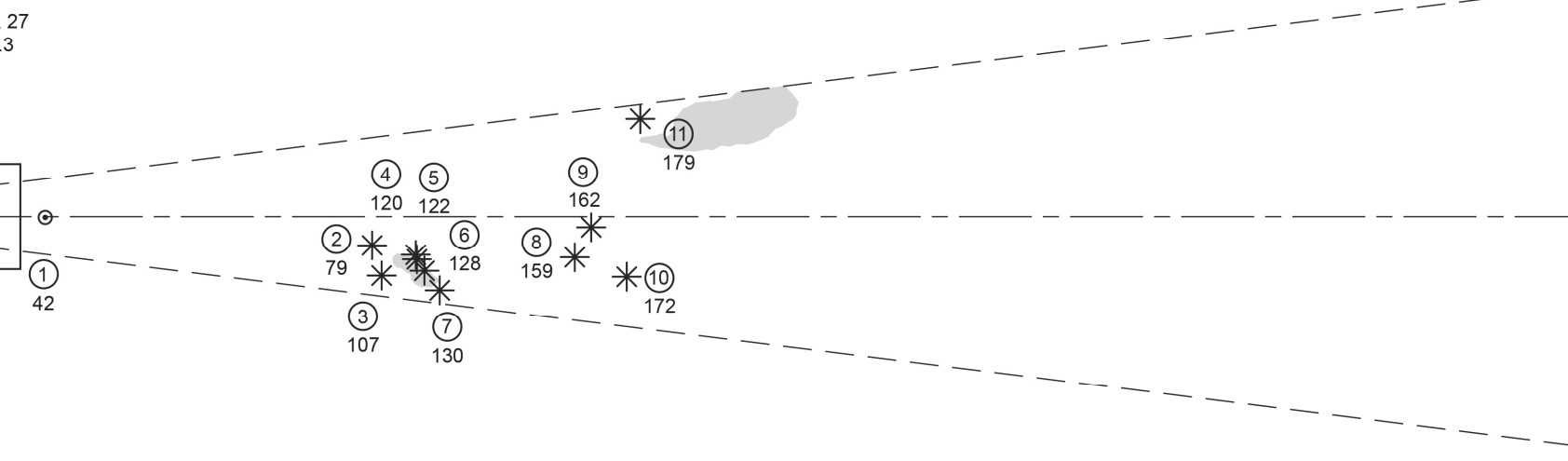
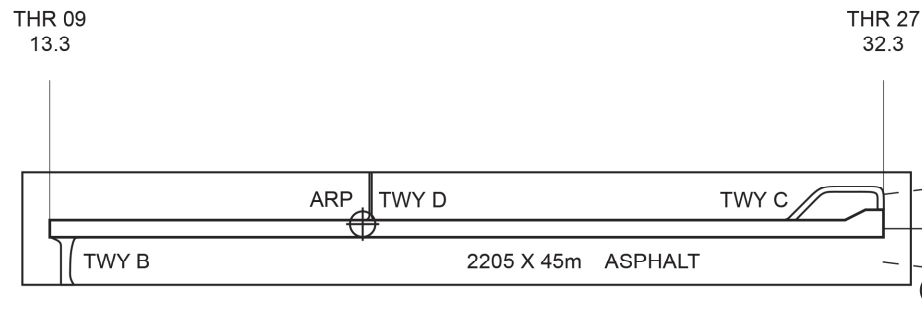
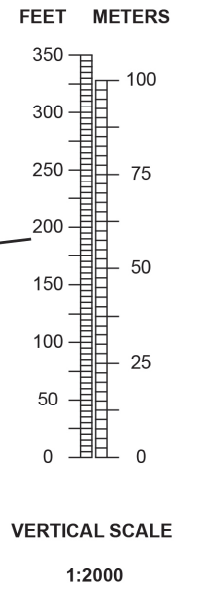
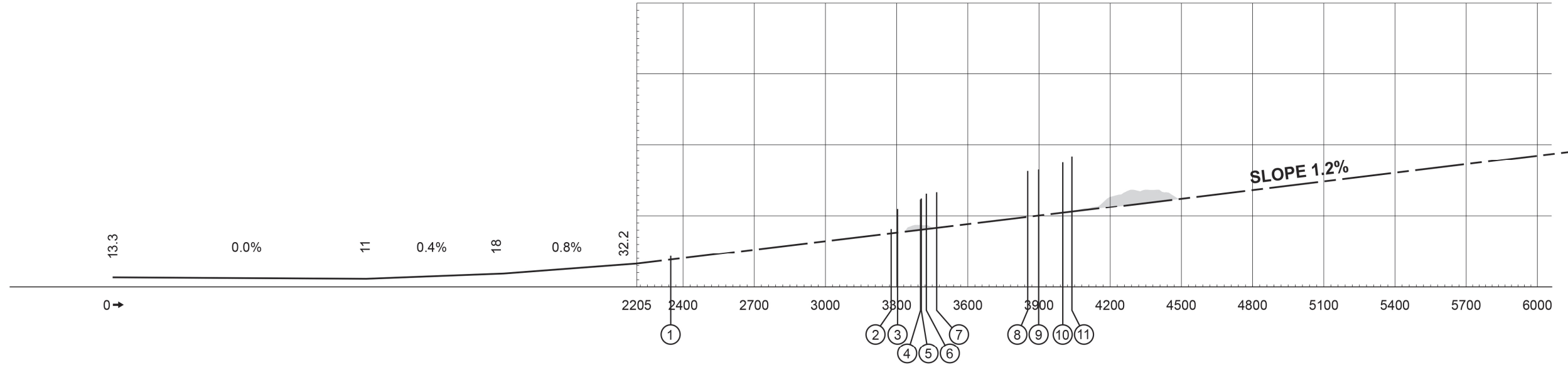
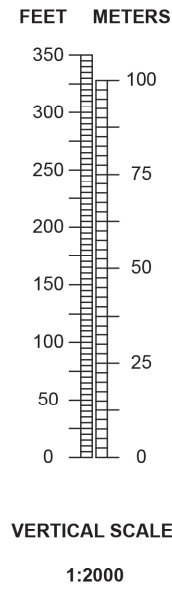
Arrivals:

The emission at the approach measurement point must not exceed 98 EPNdB.

AERODROME ELEVATION 32 FEET
MAGNETIC VARIATION 6° E 2020

RUNWAY BEARINGS
09 = GEO 090.86°; MAG 085°

DECLARED DISTANCES	RWY 09
TAKE-OFF RUN AVAILABLE	2205
TAKE-OFF DISTANCE AVAILABLE	2205
ACCELERATE STOP DIST. AVAILABLE	2205
LANDING DISTANCE AVAILABLE	2205



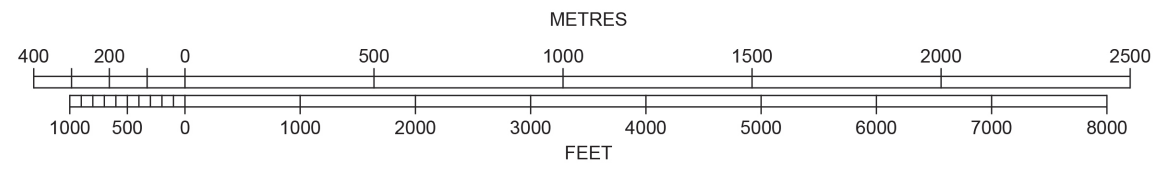
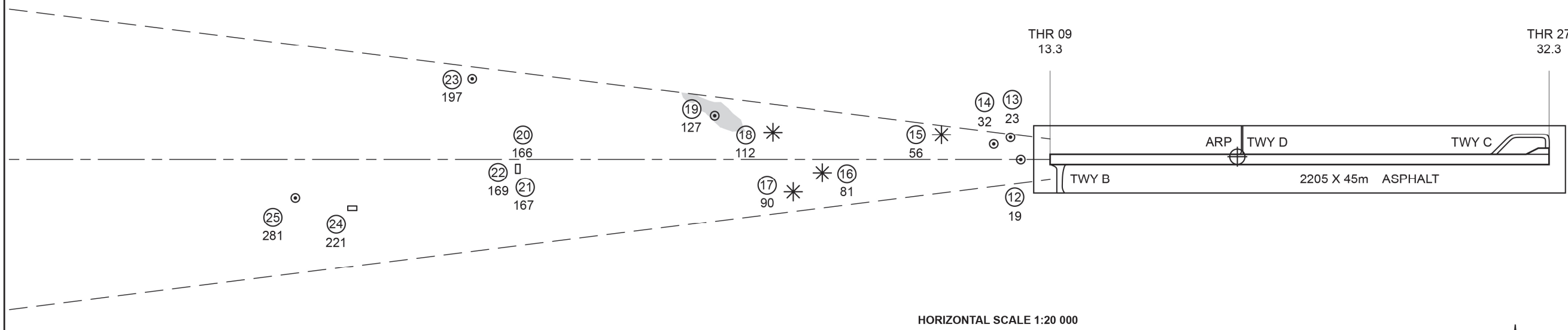
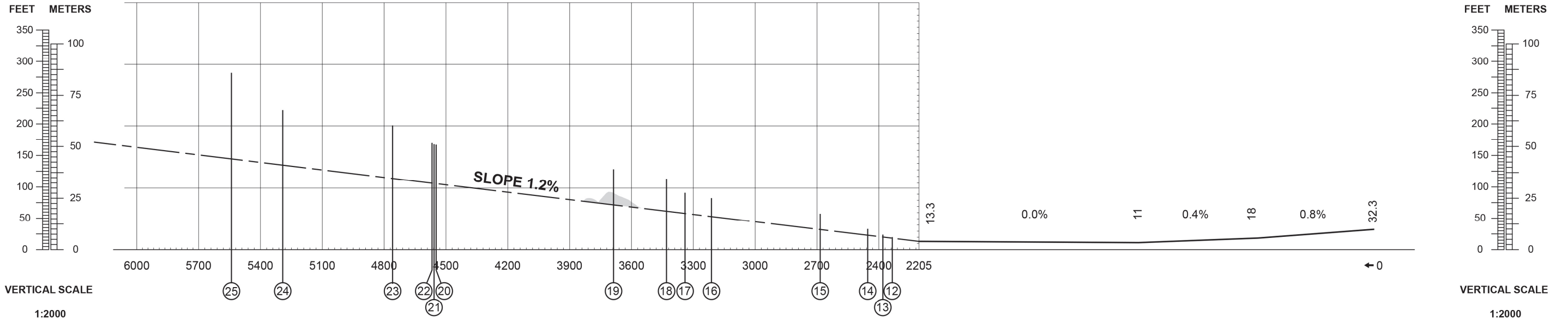
ORDER OF ACCURACY
HORIZONTAL 5 m
VERTICAL 1 ft

LEGEND	
IDENTIFICATION NUMBER	①
POLE, TOWER, SPIRE, ANTENNA, ETC.	○
TREE OR SHRUB	*
TERRAIN PENETRATING OBSTACLE PLANE	▲

AERODROME ELEVATION 32 FEET
MAGNETIC VARIATION 6° E 2020

RUNWAY BEARINGS
27 = GEO 270.89°; MAG 265°

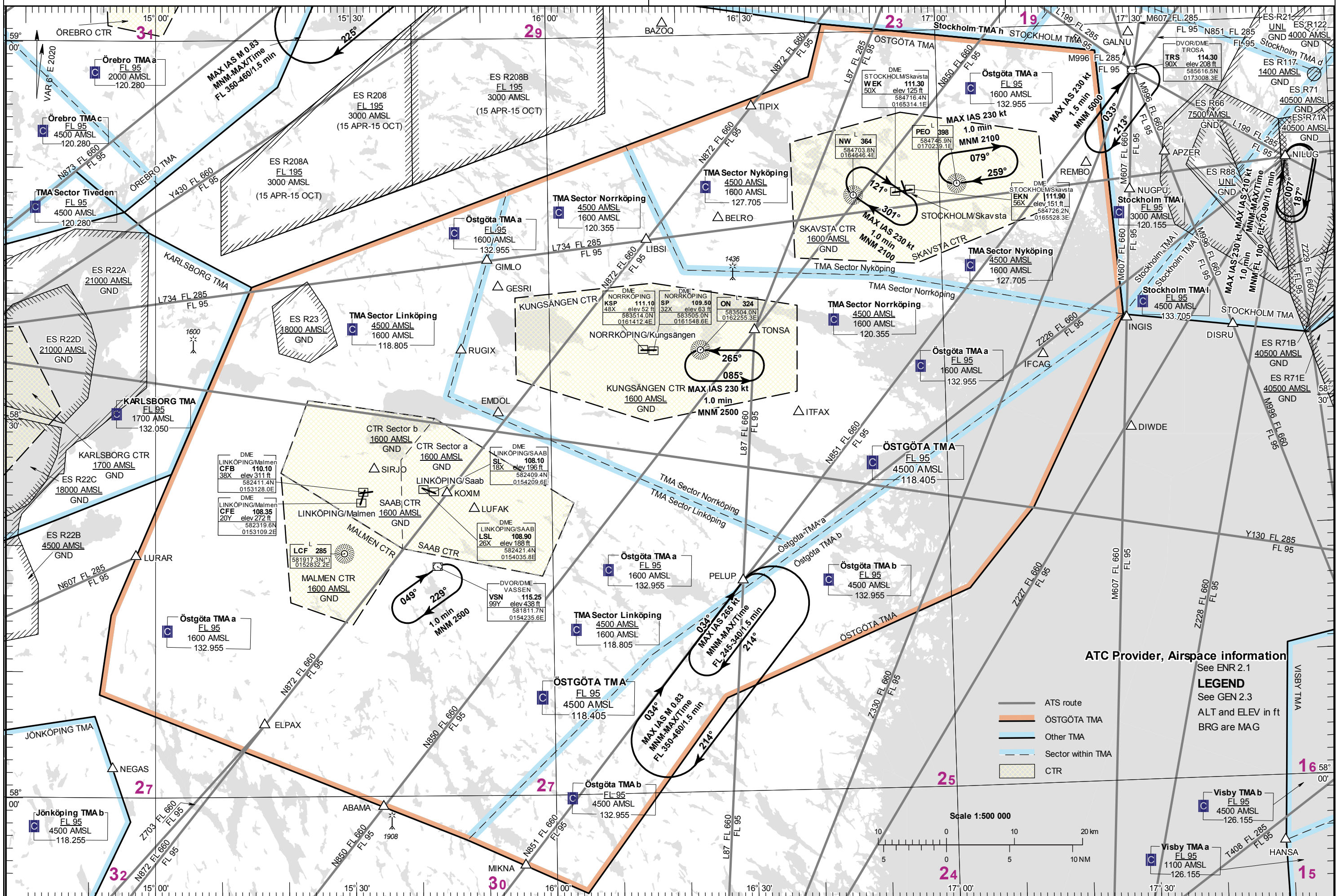
DECLARED DISTANCES	RWY 27
TAKE-OFF RUN AVAILABLE	2205
TAKE-OFF DISTANCE AVAILABLE	2205
ACCELERATE STOP DIST. AVAILABLE	2205
LANDING DISTANCE AVAILABLE	2205



ORDER OF ACCURACY
HORIZONTAL 5 m
VERTICAL 1 ft

LEGEND

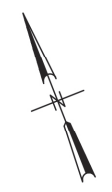
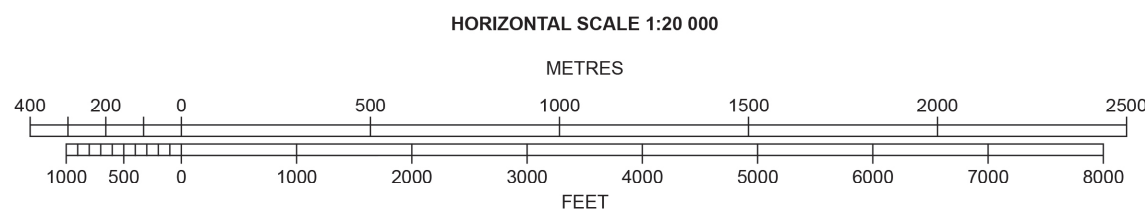
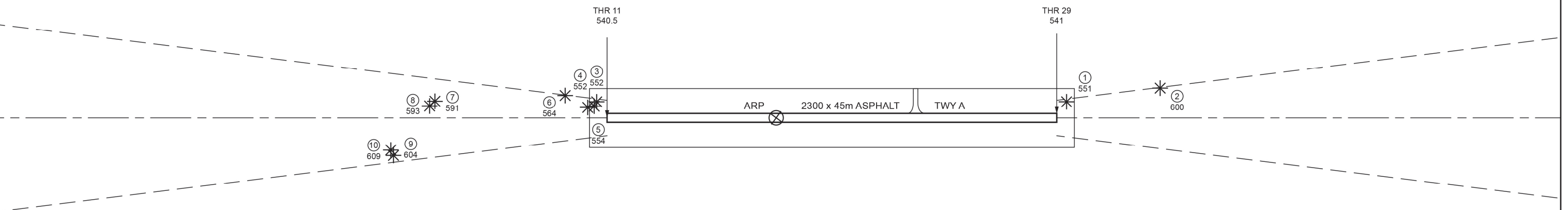
IDENTIFICATION NUMBER	(25)
POLE, TOWER, SPIRE, ANTENNA, ETC.	○
TREE OR SHRUB	*
BUILDING OR LARGE STRUCTURE	□
TERRAIN PENETRATING OBSTACLE PLANE	▲



AERODROME ELEVATION 542 FEET
MAGNETIC VARIATION 9° E 2015

RUNWAY BEARINGS
01 = GEO 118.19°; MAG 109°
19 = GEO 298.23°; MAG 289°

RWY 11	DECLARED DISTANCES	RWY 29
2300	TAKE-OFF RUN AVAILABLE	2300
2300	TAKE-OFF DISTANCE AVAILABLE	2300
2300	ACCELERATE STOP DIST. AVAILABLE	2300
2300	LANDING DISTANCE AVAILABLE	2300



ORDER OF ACCURACY
Horizontal 5m
Vertical 1ft

LEGEND	
IDENTIFICATION NUMBER	①
POLE, TOWER, SPIRE, ANTENNA, ETC.	○
TREE OR SHRUB	*
TERRAIN PENETRATING OBSTACLE PLANE	⌒

AD 2 AERODROMES**ESSA 2.1 AERODROME LOCATION INDICATOR AND NAME****ESSA – STOCKHOLM/ARLANDA****ESSA 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

- | | | |
|----|--|---|
| 1. | ARP coordinates and site at AD | 593907N 0175507E 010.5° GEO 1650 m from THR 01L |
| 2. | Direction and distance from (city) | N 20 NM from Stockholm |
| 3. | Elevation/Reference temperature | 138 ft/+23.8°C |
| 4. | Geoid undulation at AD ELEV PSN | 75 ft |
| 5. | MAG VAR/Annual change | 6° E 2020/+0.2 increasing |
| 6. | Administration, address, telephone, fax, AFS | Swedavia AB
Flygvägen 1
SE-190 45 Stockholm/Arlanda
TEL: +46 (0)10 109 10 00
FAX: +46 (0)10 109 05 00
E-mail: info.arlanda@swedavia.se
AFS: ESSAZTZX
Website: www.swedavia.se/arlanda/ |
| 7. | Types of traffic permitted (IFR/VFR) | IFR/VFR. Max RWY ref code 4E, all runways |
| 8. | Remarks | PPR for all VFR traffic TEL +46 (0)8 585 544 50 |

ESSA 2.3 OPERATIONAL HOURS

- | | | |
|-----|---|---|
| 1. | AD Administration
AD Operating hours | MON-FRI 0700-1530 (0600-1430)
H24 |
| 2. | Customs and immigration | H24 Direct transit area |
| 3. | Health and sanitation | H24, Designated quarantine AD |
| 4. | AIS Briefing Office | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 5. | ATS Reporting Office (ARO) | H24 |
| 6. | MET Briefing Office | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 7. | ATS | H24 |
| 8. | Fuelling | H24 |
| 9. | Handling | H24 |
| 10. | Security | H24 |
| 11. | De-icing | H24 |
| 12. | Remarks | Marshalling available H24. No marshall service on apron H, J and L. |

ESSA 2.4 HANDLING SERVICES AND FACILITIES

- | | | |
|----|--|--|
| 1. | Cargo-handling facilities | All types |
| 2. | Fuel/oil types | Fuel Jet A1
Oil - |
| 3. | Fuelling facilities/discharge capacity | Jet A1: No limitations, hydrant fuelling
Fueltrucks on apron G, J, K, M, S and on Terminal 3 north side |
| 4. | De-icing facilities | Type I and II, mobile units |
| 5. | Hangar space for visiting ACFT | Limited |

- | | | |
|----|-------------------------------------|---|
| 6. | Repair facilities for visiting ACFT | Available for various types of aircraft |
| 7. | Remarks | For payment of fuel contact Shell, BP or World Fuel Service |

ESSA 2.5 PASSENGER FACILITIES

- | | | |
|----|----------------------|---|
| 1. | Hotels | At AD and in nearby cities/towns |
| 2. | Restaurants | At AD, several |
| 3. | Transportation | Train, buses, taxis, rental cars |
| 4. | Medical facilities | At AD, hospitals in nearby cities/towns |
| 5. | Bank and Post Office | At AD |
| 6. | Tourist Office | At AD |
| 7. | Remarks | - |

ESSA 2.6 RESCUE AND FIRE FIGHTING SERVICES

- | | | |
|----|---|--|
| 1. | AD category for fire fighting | CAT 10, 2 fire fighting stations |
| 2. | Rescue equipment | Tracked vehicle, decontamination vehicle, airport medical assistance, lift bags, rescue boat and rescue rafts. |
| 3. | Capability for removal of disabled aircraft | By arrangement
On-the-scene commander H24, APOC Supervisor +46 (0)10 109 13 00 |
| 4. | Remarks | - |

ESSA 2.7 SEASONAL AVAILABILITY – CLEARING

- | | | |
|----|-----------------------------|--|
| 1. | Types of clearing equipment | Blowers, sweepers, snowploughs, slingers, spreaders |
| 2. | Clearance priorities | RWY, TWY, Apron, roads |
| 3. | Remarks | All RWYs de-iced with KFOR/NAFO
All TWYs and aprons de-iced with KFOR/NAFO/SAND |

ESSA 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

- | | | |
|----|----------------------------|--|
| 1. | Apron surface and strength | Apron D ASPH PCN 92 F/A/W/T
Apron E ASPH PCN 72 F/A/W/T
Apron F ASPH PCN 76 F/A/W/T
Apron G CONC PCN 68 R/A/W/T
Apron J ASPH PCN 69 F/A/W/T
Apron K ASPH PCN 48 F/A/W/T
Apron L ASPH PCN 32 F/A/W/T
Apron R ASPH PCN 87 F/A/X/T
Apron AB ASPH PCN 62 F/A/W/T
Apron BC ASPH PCN 79 F/A/W/T
Apron CD ASPH PCN 102 F/A/W/T
Apron FA ASPH PCN 102 F/A/X/T
Apron H ASPH ASPH PCN 54 F/A/W/T
Apron H CONC CONC PCN 50 R/A/W/T
Apron M ASPH ASPH PCN 75 F/A/W/T
Apron M CONC CONC PCN 70 R/A/W/T
Apron S North part ASPH PCN 48 F/A/W/T
Apron S South part ASPH PCN 41 F/A/X/T |
|----|----------------------------|--|

2.	Taxiway width, surface and strength	<p>TWY apron D 25 m ASPH PCN 78 F/A/W/T TWY EA 25 m ASPH PCN 82 F/A/W/T TWY JV 19 m ASPH PCN 78 F/A/W/T TWY KW 25 m ASPH PCN 72 F/A/X/T TWY LY 14 m ASPH PCN 32 F/A/X/T TWY M 25 m ASPH PCN 88 F/A/X/T TWY PA 25 m ASPH PCN 97 F/A/W/T TWY SC 25 m ASPH PCN 79 F/A/W/T TWY U east part 23 m ASPH PCN 84 F/A/X/T East of TWY UE TWY U west part 25 m ASPH PCN 84 F/A/X/T West of TWY UE TWY UA 25 m ASPH PCN 95 F/A/W/T TWY UB 25 m ASPH PCN 85 F/A/W/T TWY UC 25 m ASPH PCN 69 F/A/W/T TWY UD 25 m ASPH PCN 82 F/A/W/T TWY UE 25 m ASPH PCN 110 F/A/W/T TWY UF 25 m ASPH PCN 106 F/A/X/T TWY UG 25 m ASPH PCN 80 F/A/X/T TWY W 23 m ASPH PCN 89 F/A/X/T TWY W1 25 m ASPH PCN 87 F/A/W/T TWY W2 25 m ASPH PCN 89 F/A/W/T TWY W3 25 m ASPH PCN 74 F/A/W/T TWY W4 25 m ASPH PCN 77 F/A/W/T TWY W5 25 m ASPH PCN 82 F/A/W/T TWY W6 25 m ASPH PCN 90 F/A/W/T TWY W7 25 m ASPH PCN 83 F/A/W/T TWY W8 25 m ASPH PCN 79 F/A/W/T TWY X east part 25 m ASPH PCN 72 F/A/X/T East of TWY W TWY X west part 25 m ASPH PCN 76 F/A/W/T West of TWY W TWY X2 25 m ASPH PCN 68 F/A/W/U TWY X3 25 m ASPH PCN 72 F/A/W/T TWY X5 25 m ASPH PCN 84 F/A/W/T TWY Y 25 m ASPH PCN 89 F/A/W/T TWY Y1 25 m ASPH PCN 99 F/A/W/T TWY Y2 25 m ASPH PCN 105 F/A/X/T TWY Y3 25 m ASPH PCN 92 F/A/X/T TWY Y4 25 m ASPH PCN 118 F/A/W/T TWY Y5 25 m ASPH PCN 108 F/A/X/T TWY Y6 25 m ASPH PCN 100 F/A/X/T TWY Y7 25 m ASPH PCN 99 F/A/W/T TWY Y8 25 m ASPH PCN 125 F/A/W/T TWY Y9 25 m ASPH PCN 105 F/A/W/T TWY Y10 25 m ASPH PCN 101 F/A/X/T TWY Z 25 m ASPH PCN 70 F/A/W/T TWY ZE 25 m ASPH PCN 106 F/A/W/T TWY ZF 25 m ASPH PCN 102 F/A/W/T TWY ZG 25 m ASPH PCN 106 F/A/W/T TWY ZH 25 m ASPH PCN 102 F/A/W/T TWY ZJ 25 m ASPH PCN 103 F/A/W/T TWY ZK 25 m ASPH PCN 94 F/A/W/T TWY ZL 25 m ASPH PCN 94 F/A/W/T TWY ZM 25 m ASPH PCN 98 F/A/W/T TWY ZN 25 m ASPH PCN 73 F/A/W/T TWY ZP 25 m ASPH PCN 69 F/A/W/T TWY ZQ 25 m ASPH PCN 64 F/A/W/T TWY ZS 25 m ASPH PCN 113 F/A/W/T TWY ZT 25 m ASPH PCN 98 F/A/W/T</p>
3.	ACL, location and elevation	See AD 2 ESSA 2-8
4.	VOR checkpoints	-
5.	INS checkpoints	See AD 2 ESSA 2-8
6.	Remarks	<p>TWY U east part Taxiway bridges TWY W Taxiway bridges</p>

ESSA 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

- | | | |
|----|---|---|
| 1. | Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of ACFT stands | See ESSA 2-3 through ESSA 2-7. |
| 2. | RWY and TWY markings and LGT | RWY 01L/19R: See ESSA 2-1 through ESSA 2-7
01R/19L: See ESSA 2-1 through ESSA 2-7
08/26: See ESSA 2-1 through ESSA 2-7

TWY See ESSA 2-1 through ESSA 2-7 |
| 3. | Stop bars | See ESSA 2-3/4 |
| 4. | Remarks | - |

ESSA 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	Associated MET Office	STOCKHOLM/Arlanda
2.	Hours of service MET Office outside hours	H24
3.	Office responsible for TAF preparation Periods of validity	STOCKHOLM/Arlanda 24 HR
4.	Type of landing forecast Interval of issuance	TREND 30 min
5.	Briefing/consultation provided	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
6.	Flight documentation Language(s) used	TAF, METAR, SIGMET, Upper air winds Swedish/English
7.	Charts and other information available for briefing or consultation	SWC, WC, Nordic SIGWX Chart, Low level forecast
8.	Supplementary equipment available for providing information	-
9.	ATS units provided with information	STOCKHOLM/Arlanda TWR STOCKHOLM APP
10.	Additional information (limitation of service, etc.)	-

ESSA 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	True BRG and MAG BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APCH RWY
1	2	3	4	5	6
01L	010.37° GEO 004° MAG	3301 x 45	PCN 112 F/A/X/T ASPH	593814.11N 0175447.60E GUND 75.8 ft	THR 98.6 ft TDZ 100.3 ft
19R	190.38° GEO 184° MAG	3301 x 45	PCN 112 F/A/X/T ASPH	593959.04N 0175525.56E GUND 75.8 ft	THR 118.2 ft TDZ 118.2 ft
01R	010.40° GEO 004° MAG	2500 x 45	PCN 67 F/A/W/T ASPH	593735.03N 0175702.67E GUND 75.4 ft	THR 138.0 ft TDZ 138.0 ft
19L	190.40° GEO 184° MAG	2500 x 45	PCN 67 F/A/W/T ASPH	593854.49N 0175731.48E GUND 75.4 ft	THR 98.9 ft TDZ 103.7 ft
08	075.86° GEO 070° MAG	2500 x 45	PCN 89 F/A/W/T ASPH	593930.31N 0175610.08E GUND 76 ft	THR 108 ft
26	255.89° GEO 250° MAG	2500 x 45	PCN 89 F/A/W/T ASPH	593950.03N 0175844.96E GUND 75.3 ft	THR 124.8 ft TDZ 124.8 ft

Designations RWY NR	Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	RESA dimensions (m)
1	7	8	9	10	11
01L	See ESSA AOC RWY 01L/19R	-	-	3421 x 280	90 x 90
19R	See ESSA AOC RWY 01L/19R	-	-	3421 x 280	90 x 90
01R	See ESSA AOC RWY 01R/19L	-	-	2620 x 280	90 x 90
19L	See ESSA AOC RWY 01R/19L	-	-	2620 x 280	90 x 90
08	See ESSA AOC RWY 08/26	-	300 x 150	2620 x 280	90 x 90
26	See ESSA AOC RWY 08/26	-	-	2620 x 280	90 x 90

Designations RWY NR	Location/ description of arresting system	OFZ (Yes/No)	Remarks
1	12	13	14
01L	-	Yes	CLSD due maintenance WED 1000-1200 (0900-1100) Not applicable during holidays. Change by NOTAM
19R	-	No	CLSD due maintenance WED 1000-1200 (0900-1100) Not applicable during holidays. Change by NOTAM
01R	-	Yes	CLSD due maintenance THU 1000-1200 (0900-1100) Not applicable during holidays. Change by NOTAM
19L	-	Yes	CLSD due maintenance THU 1000-1200 (0900-1100) Not applicable during holidays. Change by NOTAM
08	-	No	CLSD due maintenance TUE 1000-1200 (0900-1100) Not applicable during holidays. Change by NOTAM
26	-	No	CLSD due maintenance TUE 1000-1200 (0900-1100) Not applicable during holidays. Change by NOTAM

ESSA 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
01L	3301	3301	3301	3301	-
19R	3301	3301	3301	3301	-
01R	2500	2500	2500	2500	-
19L	2500	2500	2500	2500	-
08	2500	2800	2500	2500	-
26	2500	2500	2500	2500	-

DECLARED DISTANCES TAKE-OFF INTERSECTIONS

RWY Designator	INTERSECTION	TORA (m)	TODA (m)	ASDA (m)	Remarks	
1		2	3	4	5	6
01L	TWY Y2	2512	2512	2512	-	-
01L	TWY Y3	2276	2276	2276	-	-
19R	TWY Y9	2514	2514	2514	-	-
19R	TWY Y8	2288	2288	2288	-	-
01R	TWY W3	2147	2147	2147	-	-
19L	TWY W6	2147	2147	2147	-	-
08	TWY X3	1879	2179	1879	-	-

ESSA 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT Type, LEN INTST	THR LGT Colour WBAR	VASIS (MEHT)	TDZ LGT LEN	RWY Centre Line LGT LEN, Spacing Colour INTST	RWY Edge LGT LEN, Spacing Colour INTST	RWY End LGT Colour WBAR	SWY LGT LEN, Colour
1	2	3	4	5	6	7	8	9
01L	Barrette CL CAT II/III 900 m LIH	Green	PAPI Left/3.00° (61.4 ft)	900 m	3301/15 m 0-2400 m white, 2400-3000 m white/red, 3000-3301 m red. LIH	3301/60 m White Caution zone 600 m yellow LIH	Red	-
19R	Calvert CAT I 900 m LIH	Green	PAPI Left/3.00° (56.4 ft)	-	3301/15 m 0-2400 m white, 2400-3000 m white/red, 3000-3301 m red. LIH	3301/60 m White Caution zone 600 m yellow LIH	Red	-
01R	Barrette CL CAT II/III 900 m LIH	Green WBAR	PAPI Right/3.00° (57.3 ft)	900 m	2500/15 m 0-1600 m white 1600-2200 m white/red 2200-2500 m red LIH	2500/60 m White Caution zone 600 m yellow LIH	Red	-
19L	Barrette CL CAT II/III 900 m LIH	Green WBAR	PAPI Left/3.00° (57.3 ft)	900 m	2500/15 m 0-1600 m white 1600-2200 m white/red 2200-2500 m red LIH	2500/60 m White Caution zone 600 m yellow LIH	Red	-
08	Barrette CL CAT I 600 m LIH	Green	PAPI Left/3.00° (56.4 ft)	-	2500/30 m 0-1600 m white, 1600-2200 m white/red, 2200-2500 m red. LIH	2500/60 m White Caution zone 600 m yellow LIH	Red	-
26	Calvert CAT I 900 m LIH	Green	PAPI Left/3.00° (60.0 ft)	-	2500/30 m 0-1600 m white 1600-2200 m white/red, 2200-2500 m red, LIH	2500/60 m White Caution zone 600 m yellow LIH	Red	-

10 Remarks: RWY 01L: All lights LED except PAPI
RWY 19R: All lights LED except ALS and PAPI
RWY 01R: All lights LED except PAPI
RWY 19L: All lights LED except PAPI
RWY 08: All lights LED except PAPI
RWY 26: All lights LED except PAPI

Target Start Up Approval Time (TSAT)

1. TSAT meddelas av ATS i samband med avgående klarering.
2. Om TSAT uppdateras meddelas pilot via:
 - DCL eller,
 - Docking Guidance System-display eller,
 - A-CDM app:
Installeras via App Store/Google Play.
Sök efter A-CDM ESSA eller,
 - På websidan:
<https://www.swedavia.net/airport/arlanda/start/om-flygplatsen/operations/a-cdm> eller,
 - Marktjänstföretag eller flygoperatör.

TOBT/TSAT

1. Pilot ansvarar för att luftfartyget är klart för start-up vid TOBT.
2. Om luftfartyget är klar före TOBT måste ny TOBT registreras av marktjänstföretag eller flygoperatör.
3. Om luftfartyget inte är klar vid TOBT måste ny TOBT registreras av marktjänstföretag eller flygoperatör.
4. Pilot ska vara uppmärksam på TOBT och TSAT och följa dessa.

Start Request

1. Start-up/push-back ska begäras inom TSAT-fönster +/- 5 minuter.
2. Om pilot har gjort begäran inom TSAT-fönster men blir försenad av ATS behövs ingen ny TOBT.
3. Om Arlanda Ground inte anropats för start-up vid TSAT +5 minuter, kommer luftfartyget att förlora sin plats i sekvenseringen (TSAT raderas). Pilot begär ny TOBT från marktjänstföretag eller flygoperatör.
4. Som fort ny TOBT blir registrerad kommer luftfartyget att få ny plats i sekvenseringskön och ny TSAT.
5. Luftfartyget kommer inte att kunna avgå förrän ny TOBT är registrerad och uppdaterad TSAT visas och följs.

2.2.2.3 Inflyttad startposition

Start från inflyttad position ska alltid begäras av TWR.

2.2.2.4 Omedelbar start

Flygbesättning som inte är redo för omedelbar start under uttaxning ska meddela TWR innan ankomst till väntplats.

2.2.3 Taxi procedurer vid låga siktvärden

I syfte att säkerställa korrekt taxning på plattor som inte är utrustade med taxningsljus (platta G, H, J, K och S) gäller följande:

Vid RVR värden understigande 550 m under mörker och 350 m under dager, kommer ledsagning utföras mellan plattans infart/utfart och uppställningsplats.

På platta H och J kommer ledsagning att utföras mellan plattans infart/utfart och stopplinje på plattan.

Target Start Up Approval Time (TSAT)

1. TSAT is provided by ATS with the departure clearance.
2. If TSAT is updated pilot will be notified via:
 - DCL or,
 - Docking Guidance System-display or,
 - A-CDM app:
Download via App Store/Google Play.
Search for A-CDM ESSA or,
 - On the website:
<https://www.swedavia.net/airport/arlanda/start/om-flygplatsen/operations/a-cdm> or,
 - Ground handling company or airline operator.

TOBT/TSAT

1. Pilot shall ensure the flight is ready for start-up at TOBT.
2. If flight is ready before TOBT then TOBT must be updated by ground handling company or airline operator.
3. If flight is not ready then TOBT must be updated by ground handling company or airline operator.
4. Pilot shall take notice of TOBT and TSAT and comply with them.

Start Request

1. Start-up/push-back shall be requested within TSAT-window +/- 5 minutes.
2. If pilot has called ready but is then delayed by ATS there is no requirement for TOBT to be updated.
3. If at TSAT + 5 minutes Arlanda Ground has not received a start-up request, the aircraft will lose its TSAT. Pilot shall request new TOBT from ground handling company or airline operator.
4. Once new TOBT is entered the aircraft will be re-sequenced with new TSAT.
5. Aircraft will not be allowed to depart until a valid TOBT is entered and revised TSAT is given and complied to.

2.2.2.3 Intermediate take-off position

Take off from intermediate positions shall always be requested from TWR.

2.2.2.4 Immediate take-off

Flight crew not ready for immediate take-off during outtaxing shall advise TWR before entering RWY holding position.

2.2.3 Taxi procedures in low visibility conditions

In order to ensure correct taxi operations on aprons not equipped with taxi lights (apron G, H, J, K and S) following procedure will apply:

In RVR less than 550 m during darkness and 350 m during daylight, marshalling will be conducted between the apron's entry/exit point and aircraft stand.

On apron H and J marshalling will be conducted between the apron's entry/exit point and stop line on apron.

2.2.4 Begränsningar för taxibanor

TWY Y4, Y5, Y6 och Y7
TWY W2 och W4

Endast tillåtna för flygplan med maximalt vingspann 42 m till följd av otillräckliga utfyllnader i kurvor.

2.2.5 Reducerande avstånd

Reducerade avstånd mellan ytterhjul och taxibankant tillämpas i kurvor vid nedanstående taxibanor till följd av otillräckliga utfyllnader i kurvor;

TWY M, Y2, W8 och PA för A350-1000 och B777-300/-300ER.

TWY ZH och ZK för A330-300, A330-900, A340-300, A350-900 och B777-200.

TWY KW för A330-200, A340-300 och B747.

Återstående avstånd mellan ytterhjul och taxibankant är mer än 2,5 m av kravet 4 m med förarplats över centrumlinjen. Förhöjd uppmärksamhet av pilot samt taxning med noshjulet på centrumlinjen alternativt användning av överstyrningsmetod rekommenderas.

3. Föreskrifter för uppställningsplatta

3.1 Föreskrifter vid taxning på platta

ATC utövas inte på plattorna.

För att upprätthålla ett ordnat flöde på plattorna, tillhandahålls en begränsad trafikinformationstjänst och alla flygplansrörelser på plattan ska anmälas till TWR och följa de procedurer som finns redovisade på AD 2-ESSA-2-5--7 om inte TWR angivit annat.

Följande föreskrifter gäller;

Taxning mellan terminalbyggnad och flygplan efter avslutad push-back är endast tillåtet efter anmälan till TWR och att instruktioner för detta har erhållits.

Terminal 2

Uttaxning ska utföras enligt följande:

Uppställningsplats 62 ut via UA.

Uppställningsplats 63-65 ut via UB.

Uppställningsplats 66-68 ut via UC.

Terminal 4

Intaxning till plats 31 ska utföras via ZE.

Taxning eller bogsering är inte tillåten på uppställningsplattan mellan ZF-ZG.

Terminal 5

Taxning eller bogsering är inte tillåten på uppställningsplattan mellan ZH-ZK och ZL-ZN.

Intaxning från TWY Z till platta FA via ZN är endast tillåtet med luftfartyg med max vingspann 36 m, undantaget vid parkering på plats 8.

Intaxning till plats 9 ska utföras via ZL.

Intaxning till plats 10 ska utföras via ZN.

Intaxning till plats 19 ska utföras via ZH.

Intaxning till plats 20 ska utföras via ZK.

Uttaxning från platserna 1-7 ska utföras via ZL.

Uttaxning från platserna 12-18 ska utföras via ZK.

2.2.4 Taxiway limitations

TWY Y4, Y5, Y6 and Y7
TWY W2 and W4

Only permitted for aircraft with wingspan maximum 42 m due to insufficient fillets in taxiway curves.

2.2.5 Reduced distance

Reduced distance between outer main gear wheel and taxiway edge will apply at taxiway curves on the taxiways below due to insufficient fillets;

TWY M, Y2, W8 and PA for A350-1000 and B777-300/-300ER.

TWY ZH and ZK for A330-300, A330-900, A340-300 and B777-200.

TWY KW for A330-200, A340-300 and B747.

Remaining distance between outer main gear wheel and taxiway edge will be more than 2,5 m of required 4 m with cockpit over centre line. Pilot awareness and taxiing with nose gear on centre line alternatively usage of oversteer method is recommended.

3. Apron regulations

3.1 Taxi regulations on apron

ATC is not provided on aprons.

In order to maintain orderly flow on aprons, a limited traffic information service is provided and all aircraft movements are subject to prior contact with TWR and are required to follow procedures shown in AD 2-ESSA-2-5--7 unless otherwise instructed by TWR.

Following regulations will apply;

Taxiing between terminal building and aircraft after completed push-back is only allowed after TWR has been informed and taxiing aircraft has been instructed to do so.

Terminal 2

Taxiing out shall take place as follows:

From stand 62 out via UA.

From stand 63-65 out via UB.

From stand 66-68 out via UC.

Terminal 4

Taxiing to stand 31 shall take place via ZE.

Taxiing and towing on apron area between ZF-ZG is not allowed.

Terminal 5

Taxiing or towing on apron area is not allowed between ZH-ZK and ZL-ZN.

Taxiing from TWY Z to apron FA via ZN only allowed for aircraft with max wingspan 36 m, except if parking at stand 8.

Taxiing to stand 9 shall take place only via ZL.

Taxiing to stand 10 shall take place only via ZN.

Taxiing to stand 19 shall take place only via ZH.

Taxiing to stand 20 shall take place only via ZK.

Taxiing out from stand 1-7 shall take place via ZL.

Taxiing out from stand 12-18 shall take place via ZK.

3.2	Restriktioner vingspann	3.2	Wing span restrictions
	Maximalt vingspann 24 m för taxning på platta S söder om SC.		Maximum wing span 24 m for taxiing on apron S south of SC.
3.3	Jetstrålar	3.3	Jet Blast
	Minsta möjliga motoreffekt ska användas på alla plattor vid taxning för att undvika jetstrålar.		Engines shall be operated at minimum required thrust on all aprons when taxiing to avoid jetblast.
4.	Föreskrifter för helikoptertrafik	4.	Helicopter traffic
	TWR kommer att anvisa start och landning till någon RWY. Taxning eller hovring till eller ifrån uppställningsplats ska följa publicerade taxivägar om inget annat anges av TWR.		TWR will advise approach and take off to any RWY. Taxiing/hover to and from parking stand shall follow published taxi routes if not otherwise instructed by TWR.
5.	Föreskrifter för uppställningsplats	5.	Stand regulations
5.1	Reducerat säkerhetsavstånd	5.1	Reduced safety distances
	Terminal 4 Reducerade säkerhetsavstånd ned till 3 m tillämpas på tillämpliga uppställningsplatser mellan vänster motor och passagerarbrygga för A220-100, A319, B737-600/-700, E170. Förfarandet uppfyller kraven enligt EASA CS ADR-DSN.E.365.		Terminal 4 Reduced safety distances minimum 3 m will apply between left engine and passenger bridge for A220-100, A319, B737-600/-700, E170 on all applicable stands. The procedure is assessed according to EASA CS ADR-DSN.E.365.
	Plats R5 Reducerat säkerhetsavstånd ned till 6.2 m tillämpas på höger sida tvärs belysningsstolpe på plats R4 för flygplan med vingspann överskridande 63 m men mindre än 65 m. Belysningsstolpe är markerad med färg och ljus. Förfarandet uppfyller kraven enligt EASA CS ADR-DSN.E.365.		Stand R5 Reduced safety distance minimum 6.2 m will apply on right side abeam light pole at stand R4 for ACFT with wingspan above 63 m but not 65 m. Light pole marked with colour and lights. The procedure is assessed according to EASA CS ADR-DSN.E.365.
5.2	Frigörande av uppställningsplats	5.2	Push and Hold
	När försening till följd av ändrad CTOT uppstår kan luftfartyg instrueras av TWR att lämna uppställningsplats, för att frigöra uppställningskapacitet.		When delayed by CTOT, aircraft may be ordered to push and hold to release stand capacity according to instructions from TWR.
5.3	Push-back	5.3	Push-back
	Push-back ska alltid utföras vid "nose-in" parkering. Vid övrig uppställning ska push-back alltid utföras för jetflygplan, avvikelser från detta kan förekomma. Marktföretag informerar om push-back ska tillämpas eller inte, i enlighet med Lokala Föreskrifter på flygplatsen. Power-back som alternativ till push-back är inte tillåten.		Push-back is compulsory for all nose-in stands. For self-service stands push-back is normally mandatory for all jet-aircraft, however deviations are allowed. Handling agent will inform if applicable or not, according to Airport Regulations. Power-back as an alternative to push-back where mandatory is not allowed.
5.4	Dockningssystem	5.4	Parking Guidance System
	När dockningssystem inte är aktiverat eller installerat ska luftfartyg vänta på plattans inkörningsspår eller inriktningsspår utanför uppställningsplats tills dockningssystem har blivit aktiverat eller signal från rangerare för att köra in har tagits emot.		Whenever parking guidance system is not activated or not installed, aircraft shall wait on apron taxi line or outside parking stand whichever applicable until parking guidance system has been activated or until signal from a marshal for entering has been received.
5.5	APU användning	5.5	Use of APU
	APU får startas tidigast 5 min före beräknad tid för push-back eller taxning. Vid ankomst ska APU stängas av inte senare än 5 min efter on-block.		APU shall not be started earlier than 5 min before estimated time for push-back or taxiing. On arrival the APU must be shut down not later than 5 min after on-block.

6. Föreskrifter för avisning

6.1 Avisning kan beställas från något av följande företag;

Menzies Aviation	08 797 80 70
Aviator	08 797 71 90
SAS Ground Handling	070 997 59 92

6.2 Procedur

Avisning genomförs på uppställningsplats eller annan anvisad avisningsplats.

På T2 utförs push-back innan avisning påbörjas.

7. Banföreskrifter

7.1 Begäran om annan bana

Begäran om annan bana än den i användning medges endast av flygsäkerhetsskäl, HOSP eller av prestandaskäl.

7.2 Inflyttad startposition

Flygplan ska begära inflyttad startposition från "GROUND" tidigast på TWY eller vid första kontakt med TWR.

7.3 High intensity runway operations (HIRO)

I avsikt att reducera förseningar och påskynda trafikavveckling tillämpas HIRO för alla luffartyg. Kort tid på rullbanan medger största möjliga kapacitet.

7.3.1 HIRO för avgående flygplan

- Vid mottagande av klarering att ställa upp ska piloter taxa till korrekta position på rullbana utan dröjsmål.
- Piloter ska påbörja startförfarandet omedelbart när starttillstånd har erhållits.
- Piloter som inte kan följa dessa krav ska meddela ATC vid första kontakt efter överlämning till Arlanda TWR.

7.3.2 HIRO för ankommande flygplan

- HIRO kräver att alla flygplan lämnar rullbanan så fort som möjligt. Förlängd tid på rullbanan kan medföra avbruten inflygning för efterföljande flygplan.
- Under approach briefing bör piloter planera och namnge vilken RET (om möjligt) de avser lämna rullbanan.
- Om man inte kan lämna via den planerade avfarten, ska piloten anpassa hastigheten för att snabbt kunna lämna rullbanan via nästa RET (om möjligt). Låg taxihastighet på rullbanan ska undvikas.

6. De/anti-icing regulations

6.1 De/anti-icing is available through following companies;

Menzies Aviation	+46(0)8 797 80 70
Aviator	+46(0)8 797 71 90
SAS Ground Handling	+46(0)70 997 59 92

6.2 Procedure

De-icing will take place at parking stand or other advised de-icing spot.

At T2 push-back will be performed before de-icing starts.

7. RWY regulations

7.1 RWY other than in use

RWY other than in use only permitted due flight safety, HOSP or performance.

7.2 Intersection take-off position

Aircraft shall request intersection take-off position from "GROUND" earliest when on TWY or on initial contact with TWR.

7.3 High intensity runway operations (HIRO)

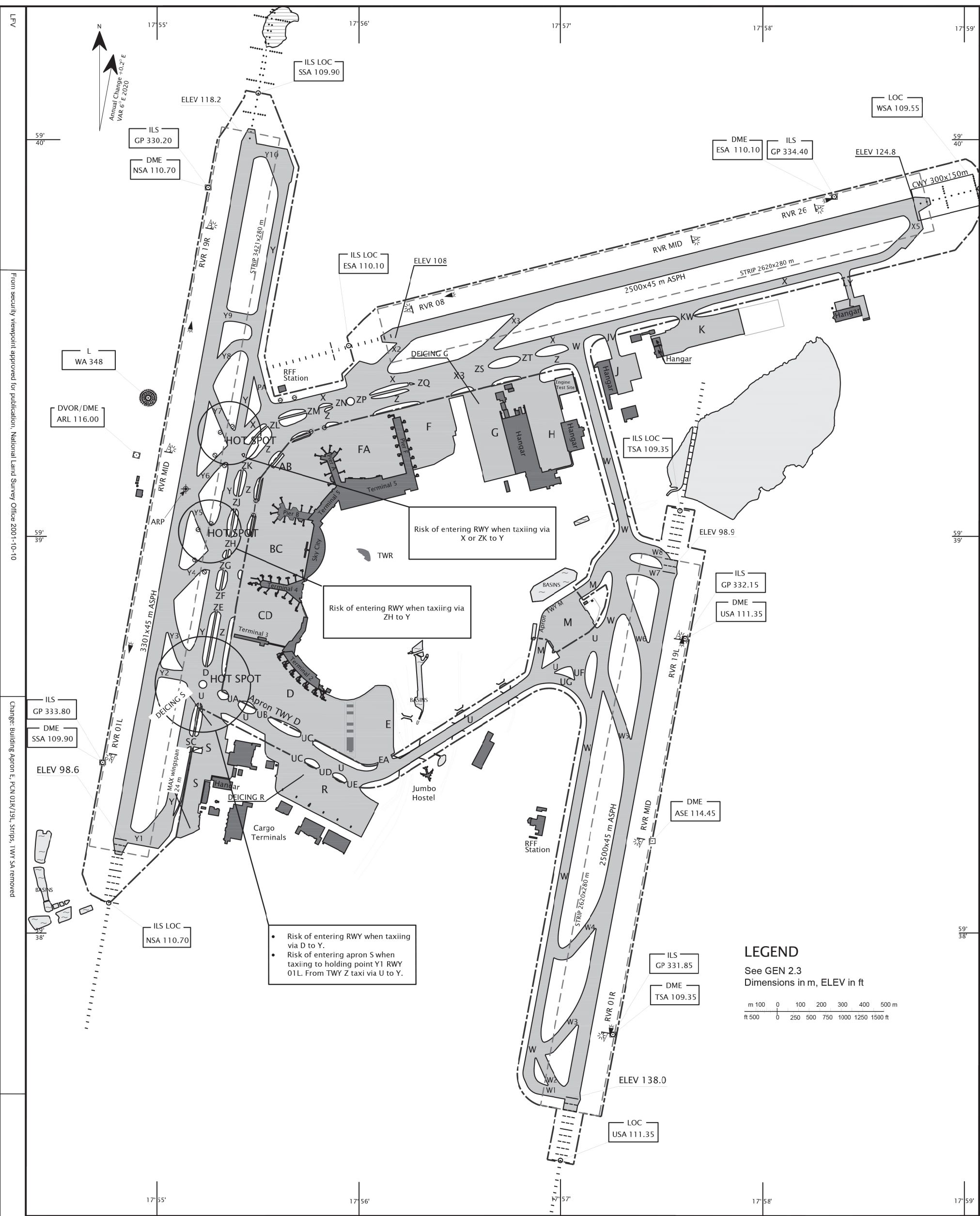
In order to reduce delays and expedite traffic HIRO should be applied to all aircraft. Short runway occupancy times allow for the highest possible throughput per hour.

7.3.1 HIRO for departing aircraft

- On receipt of clearance to line-up, pilots should taxi into the correct position on the RWY without delay.
- Pilot should commence take-off roll immediately when take-off clearance is issued.
- Pilots who are unable to comply with these requirements shall notify ATC when transferred to Arlanda TWR.

7.3.2 HIRO for arriving aircraft

- HIRO requires all aircraft to exit the runway as quickly as possible. Extended runway occupancy time may result in the following aircraft being assigned a missed approach.
- During approach briefing pilots should plan and name which rapid exit taxiway (if applicable) they will vacate.
- In case the aircraft will miss the planned exit, pilots shall adjust taxi speed to quickly vacate the runway via the next rapid exit taxiway (if applicable). Low taxi speeds on the runway shall be avoided.



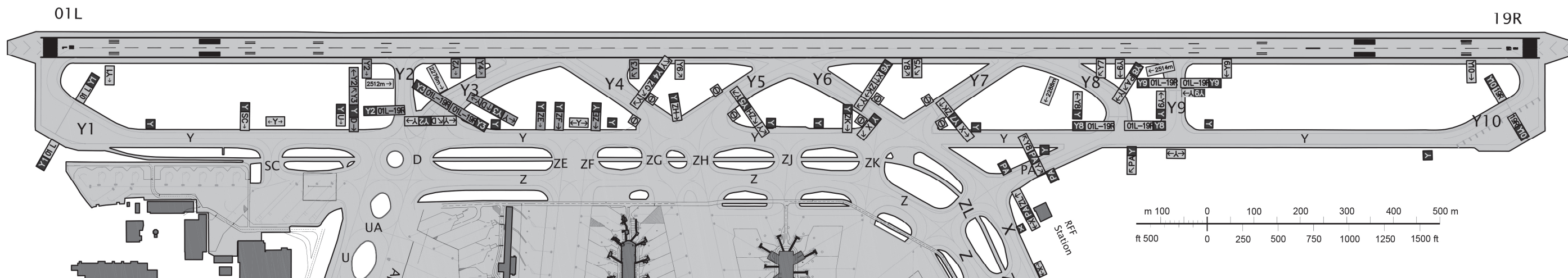
LRV
 From security viewpoint approved for publication, National Land Survey Office 2001-10-10
 Changes: Building Apron E, PCN 01R/19L, Strips, TWY SA removed
 AIRAC AMDT 6/2024 28 NOV 2024

RWY	BRG MAG	THR COORDINATES	THR ELEV (FT)	TDZ ELEV (FT)	RWY DIMENSIONS (m)	STRENGTH PCN	SURFACE	PAPI	
								GP	MEHT
01L	004°	593814.11N 0175447.60E	98.6	100.3	3301x45	112 F/A/X/T	ASPH	Left 3.0°	61.4 ft
19R	184°	593959.04N 0175525.56E	118.2	118.2	3301x45	112 F/A/X/T	ASPH	Left 3.0°	56.4 ft
01R	004°	593735.03N 0175702.67E	138.0	138.0	2500x45	67 F/A/W/T	ASPH	Right 3.0°	57.3 ft
19L	184°	593854.49N 0175731.48E	98.9	103.7	2500x45	67 F/A/W/T	ASPH	Left 3.0°	57.3 ft
08	070°	593930.31N 0175610.08E	108		2500x45	89 F/A/W/T	ASPH	Left 3.0°	56.4 ft
26	250°	593950.03N 0175844.96E	124.8	124.8	2500x45	89 F/A/W/T	ASPH	Left 3.0°	60.0 ft

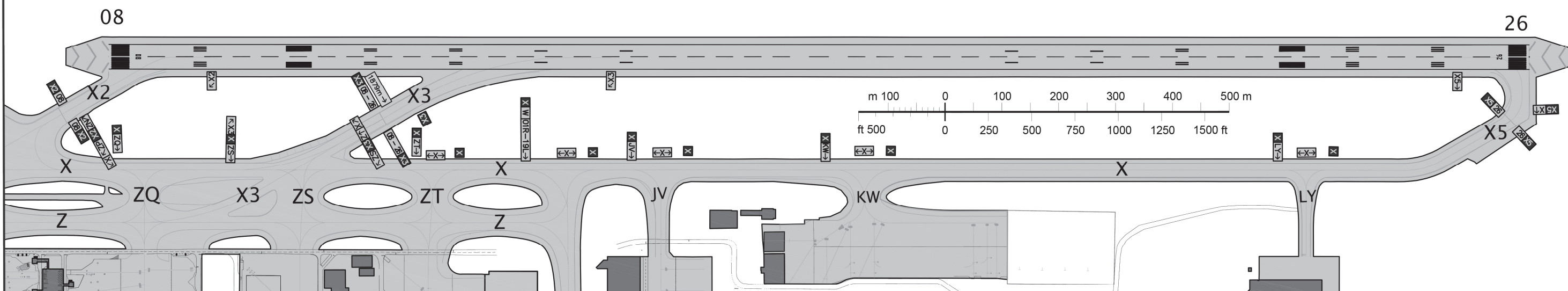
AD GEOGRAPHICAL DATA
 AD ELEV 138ft
 ARP 59°39'07"N 017°55'07"E
 For further information see ESSA AD 2.2

REMARKS
 RWY and TWY Markings see AD 2-ESSA-2-3
 RWY and TWY Lighting see AD 2-ESSA-2-4
 Altimeter Check-Location (ACL) and stand coordinates see AD 2-ESSA ACL/INS Reference points

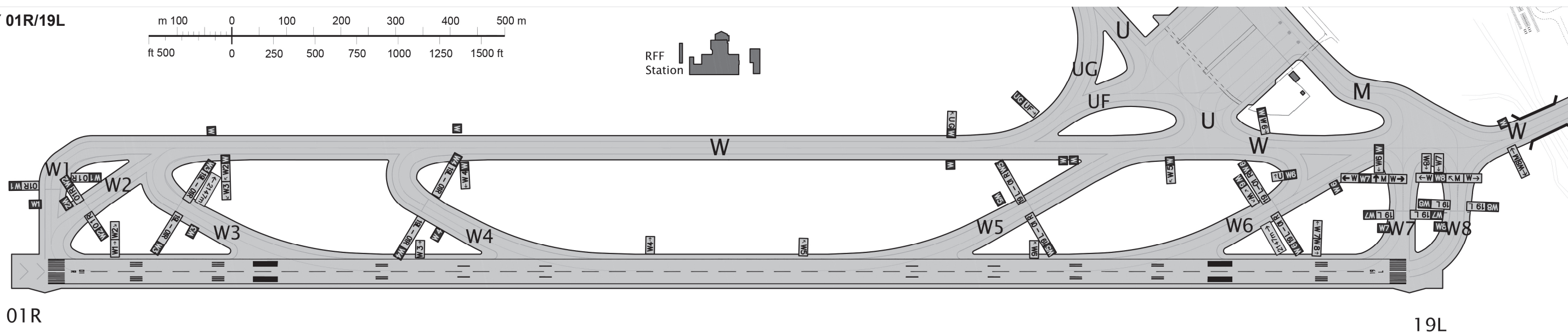
RWY 01L/19R



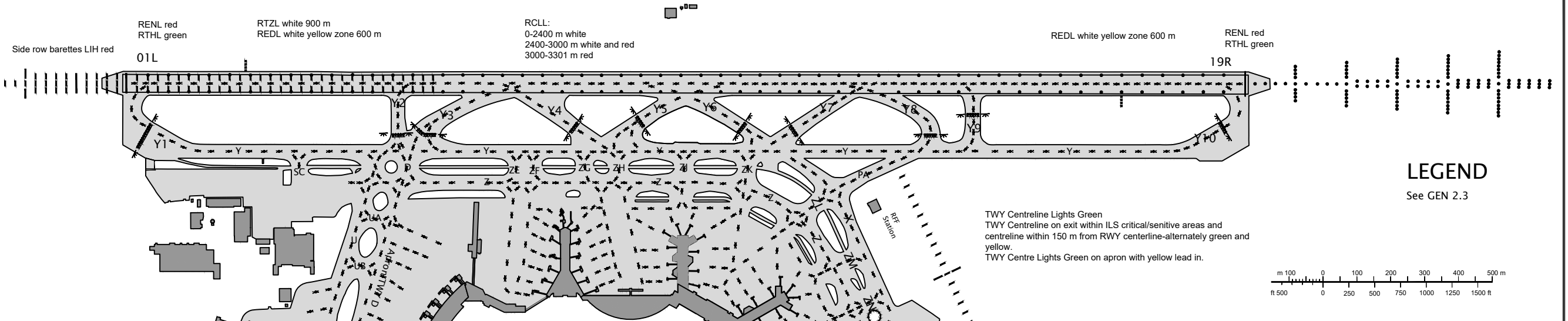
RWY 08/26



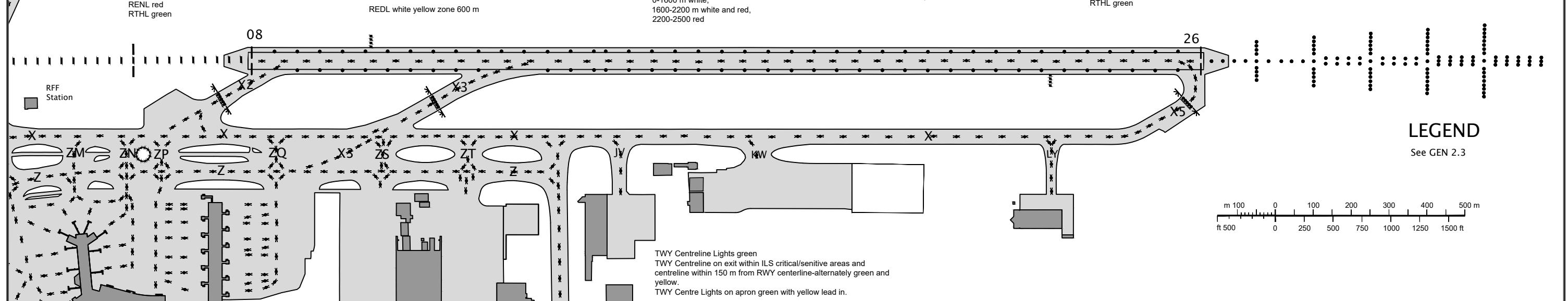
RWY 01R/19L



RWY 01L/19R



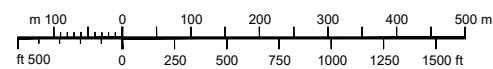
RWY08/26



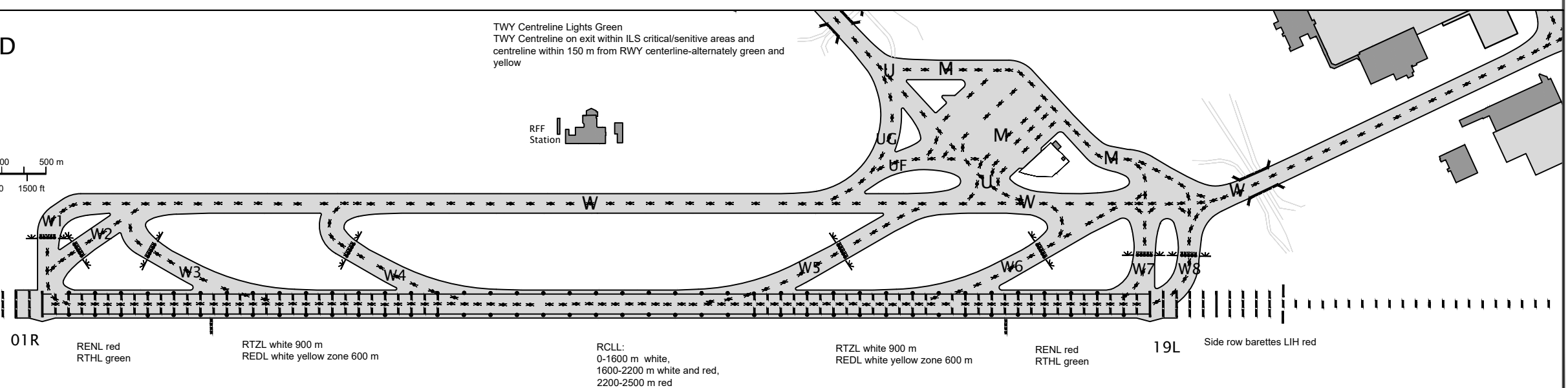
RWY 01R/19L

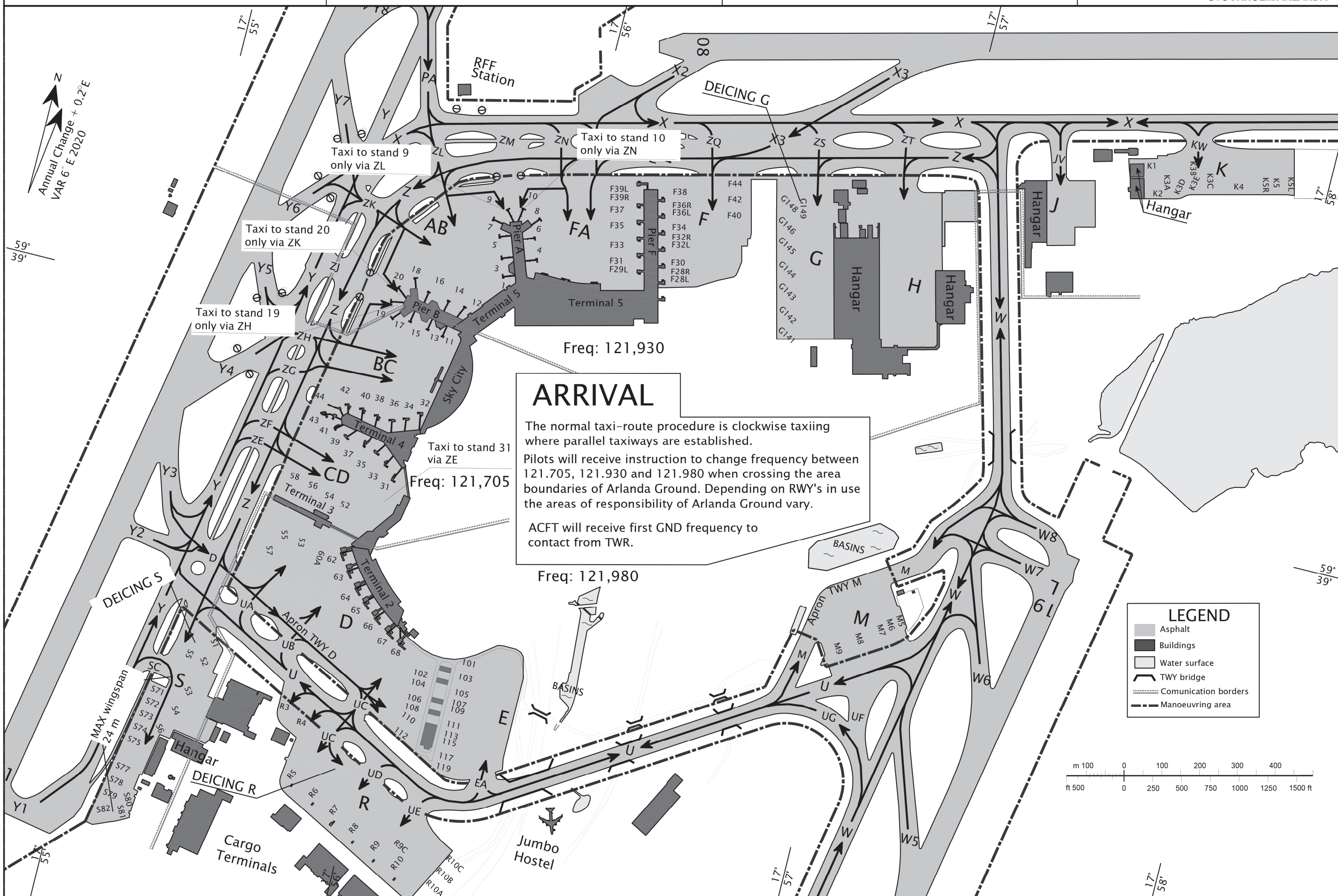
LEGEND

See GEN 2.3



Side row barettes LIH red





Annual Change + 0.2°E
VAR 6° E 2020

Taxi to stand 9
only via ZL

Taxi to stand 10
only via ZN

Taxi to stand 20
only via ZK

Taxi to stand 19
only via ZH

Taxi to stand 31
via ZE

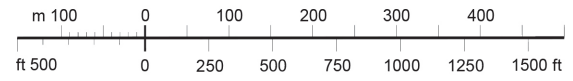
ARRIVAL

The normal taxi-route procedure is clockwise taxiing where parallel taxiways are established. Pilots will receive instruction to change frequency between 121.705, 121.930 and 121.980 when crossing the area boundaries of Arlanda Ground. Depending on RWY's in use the areas of responsibility of Arlanda Ground vary.

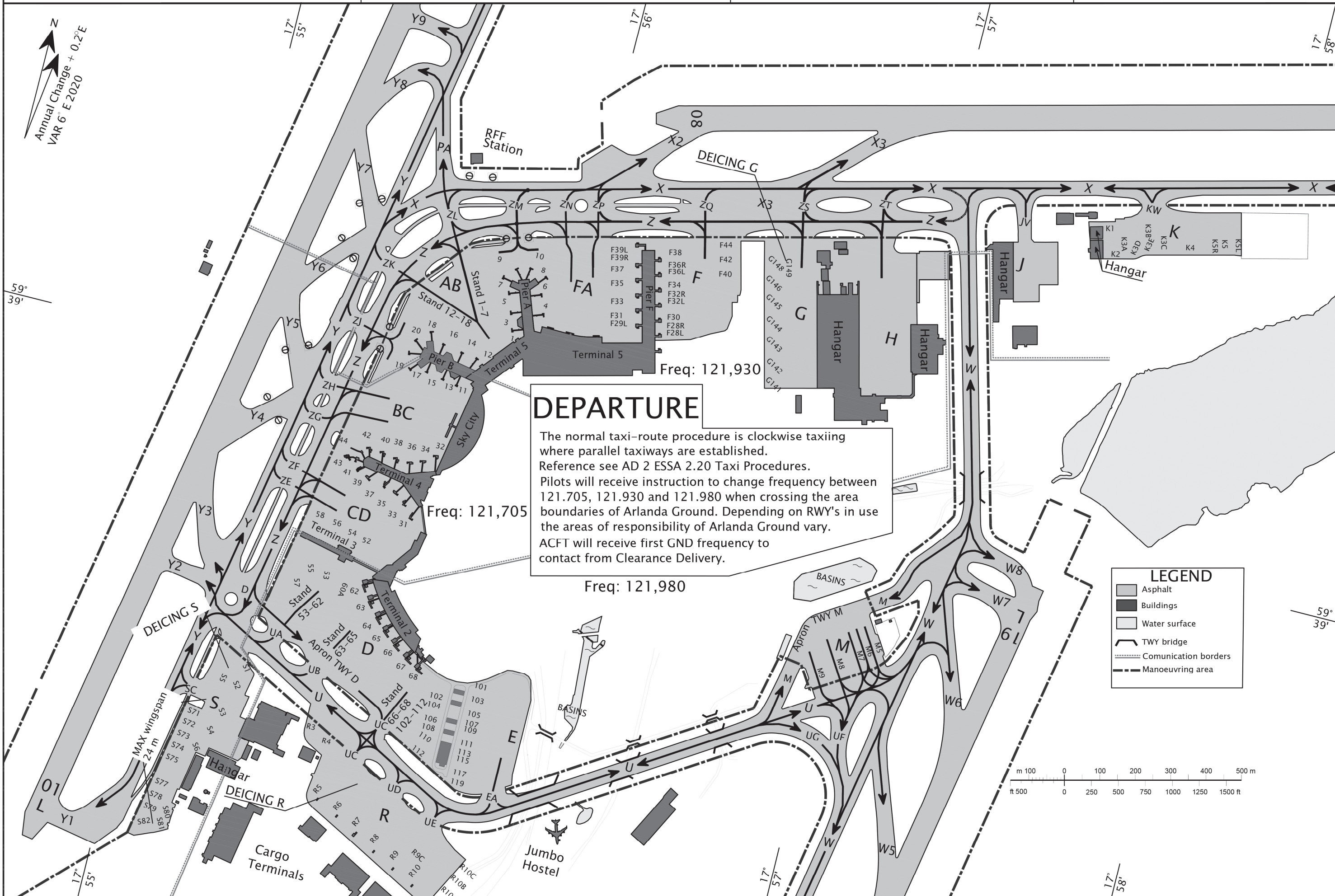
ACFT will receive first GND frequency to contact from TWR.

LEGEND

- Asphalt
- Buildings
- Water surface
- TWY bridge
- Communication borders
- Manoeuvring area



Annual Change + 0.2°E
VAR 6° E 2020



DEPARTURE

The normal taxi-route procedure is clockwise taxiing where parallel taxiways are established. Reference see AD 2 ESSA 2.20 Taxi Procedures. Pilots will receive instruction to change frequency between 121.705, 121.930 and 121.980 when crossing the area boundaries of Arlanda Ground. Depending on RWY's in use the areas of responsibility of Arlanda Ground vary. ACFT will receive first GND frequency to contact from Clearance Delivery.

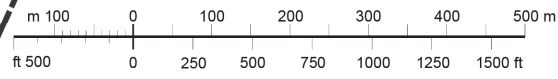
Freq: 121,705

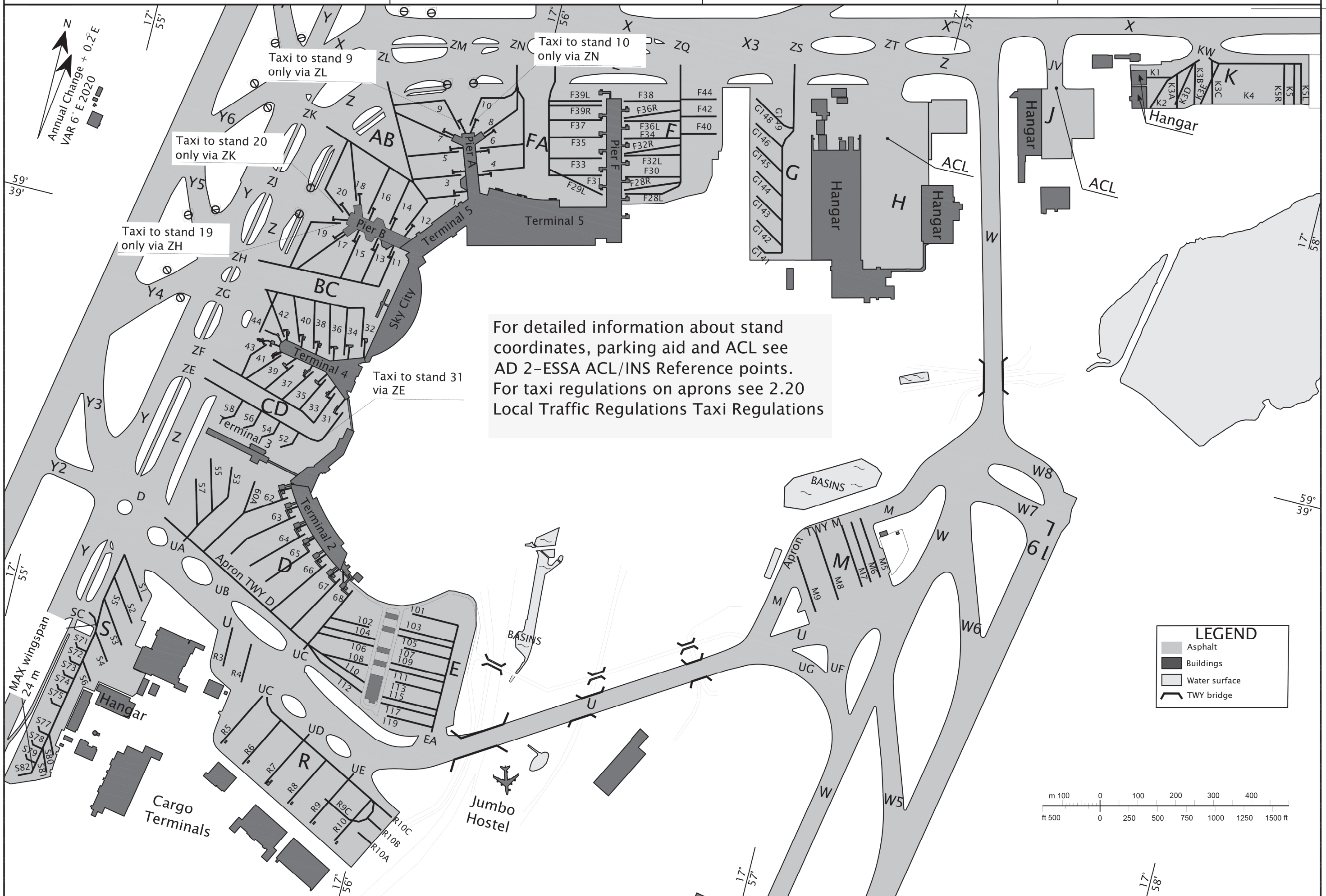
Freq: 121,930

Freq: 121,980

LEGEND

- Asphalt
- Buildings
- Water surface
- TWY bridge
- Communication borders
- Manoeuvring area





Annual Change + 0.2°E
VAR 6° E 2020

Taxi to stand 9
only via ZL

Taxi to stand 20
only via ZK

Taxi to stand 19
only via ZH

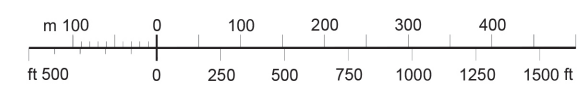
Taxi to stand 10
only via ZN

Taxi to stand 31
via ZE

For detailed information about stand
coordinates, parking aid and ACL see
AD 2-ESSA ACL/INS Reference points.
For taxi regulations on aprons see 2.20
Local Traffic Regulations Taxi Regulations

LEGEND

- Asphalt
- Buildings
- Water surface
- TWY bridge



ACL/INS Reference points				
STAND	INS COORD		ELEV ft	PARKING AID
Terminal 2				
62	593841.07N	0175535.33E	103	APIS++
63	593839.76N	0175537.21E	103	APIS++
64	593838.55N	0175539.33E	103	APIS++
65	593837.61N	0175541.29E	103	APIS++
66	593836.60N	0175543.79E	103	APIS++
67	593835.72N	0175546.48E	103	APIS++
68	593835.08N	0175548.87E	103	APIS++
Terminal 3				
52	593844.98N	0175533.06E	102	INOGON
53	593842.53N	0175526.86E	105	SAFEDOCK
54	593845.41N	0175530.06E	102	INOGON
55	593843.02N	0175523.72E	105	SAFEDOCK
56	593845.75N	0175526.80E	103	INOGON
57	593840.64N	0175521.78E	106	SAFEDOCK
58	593846.10N	0175523.54E	102	INOGON
60A	593841.98N	0175530.54E	104	SAFEDOCK
Terminal 4				
31	593848.51N	0175540.72E	102	SAFEDOCK
32	593854.89N	0175541.16E	101	SAFEDOCK
33	593849.63N	0175538.80E	101	SAFEDOCK
34	593853.91N	0175538.89E	102	SAFEDOCK
35	593850.42N	0175536.87E	102	SAFEDOCK
36	593853.50N	0175536.67E	102	SAFEDOCK
37	593850.75N	0175534.30E	102	SAFEDOCK
38	593853.59N	0175534.11E	102	SAFEDOCK
39	593851.06N	0175531.31E	101	SAFEDOCK
40	593853.80N	0175531.49E	102	SAFEDOCK
41	593851.54N	0175528.89E	101	SAFEDOCK
42	593853.80N	0175529.02E	101	SAFEDOCK
43	593852.42N	0175526.98E	100	SAFEDOCK
44	593853.54N	0175525.66E	100	SAFEDOCK
Terminal 5 Pier A				
1	593907.41N	0175549.77E	101	SAFEDOCK
3	593908.91N	0175548.76E	102	SAFEDOCK
4	593909.97N	0175554.08E	101	SAFEDOCK
5	593910.64N	0175547.54E	100	SAFEDOCK
6	593911.70N	0175552.85E	101	SAFEDOCK
7	593911.87N	0175545.57E	103	SAFEDOCK
8	593913.28N	0175552.69E	101	SAFEDOCK
9	593913.02N	0175547.17E	101	SAFEDOCK
10	593913.61N	0175549.50E	99	SAFEDOCK

ACL/INS Reference points				
STAND	INS COORD		ELEV ft	PARKING AID
Terminal 5 Pier B				
11	593901.49N	0175542.65E	100	SAFEDOCK
12	593904.44N	0175544.10E	101	SAFEDOCK
13	593901.73N	0175539.95E	102	SAFEDOCK
14	593904.56N	0175541.22E	101	SAFEDOCK
15	593902.03N	0175536.81E	101	SAFEDOCK
16	593904.89N	0175537.62E	101	SAFEDOCK
17	593901.78N	0175533.72E	101	SAFEDOCK
18	593905.61N	0175534.86E	101	SAFEDOCK
19	593903.05N	0175532.56E	100	SAFEDOCK
20	593904.38N	0175532.70E	101	SAFEDOCK
Terminal 5 Pier F				
F28L	593911.07N	0175617.53E	102	APIS++
F28R	593911.31N	0175616.14E	102	APIS++
F29L	593910.47N	0175609.85E	105	APIS++
F30	593912.39N	0175616.89E	102	APIS++
F31	593911.49N	0175609.12E	103	APIS++
F32L	593913.98N	0175616.01E	102	APIS++
F32R	593914.08N	0175614.76E	103	APIS++
F33	593912.79N	0175608.28E	103	APIS++
F34	593915.31N	0175615.50E	102	SAFEDOCK
F35	593914.42N	0175607.75E	102	APIS++
F36L	593916.58N	0175614.51E	104	SAFEDOCK
F36R	593916.77N	0175613.34E	104	SAFEDOCK
F37	593915.72N	0175607.01E	101	APIS++
F38	593918.13N	0175613.92E	102	SAFEDOCK
F39L	593917.19N	0175606.35E	101	APIS++
F39R	593916.95N	0175607.52E	103	APIS++
Apron D				
102	593833.02N	0175551.69E	104	SAFEDOCK
104	593832.21N	0175552.98E	104	SAFEDOCK
106	593831.64N	0175553.59E	104	SAFEDOCK
108	593830.09N	0175552.94E	103	SAFEDOCK
110	593829.01N	0175552.85E	103	SAFEDOCK
112	593828.11N	0175553.55E	103	SAFEDOCK

ACL/INS Reference points				
STAND	INS COORD		ELEV ft	PARKING AID
Apron E				
101	593834.85N	0175600.48E	105	SAFEDOCK
103	593833.47N	0175558.59E	105	SAFEDOCK
105	593832.97N	0175559.33E	105	SAFEDOCK
107	593832.10N	0175600.49E	104	SAFEDOCK
109	593830.73N	0175558.59E	104	SAFEDOCK
111	593830.23N	0175559.33E	103	SAFEDOCK
113	593829.35N	0175600.49E	103	SAFEDOCK
115	593827.98N	0175558.60E	102	SAFEDOCK
117	593827.48N	0175559.34E	102	SAFEDOCK
119	593826.61N	0175600.50E	102	SAFEDOCK
Apron F				
F40	593917.08N	0175626.41E	110	SAFEDOCK
F42	593918.39N	0175625.76E	110	SAFEDOCK
F44	593919.70N	0175625.11E	110	SAFEDOCK
Apron G				
G141	593909.33N	0175637.02E	118	INOGON
G142	593911.28N	0175635.82E	118	SAFEDOCK
G143	593913.12N	0175634.87E	118	SAFEDOCK
G144	593914.97N	0175633.93E	118	SAFEDOCK
G145	593916.84N	0175633.00E	117	SAFEDOCK
G146	593918.68N	0175632.09E	115	SAFEDOCK
G148	593920.53N	0175631.16E	114	SAFEDOCK
G149	593920.05N	0175633.16E	117	
Apron H				
ACL	593919.94N	0175652.30E	117	
Apron J				
ACL	593927.08N	0175715.73E	121	
Apron K				
K1	593929.62N	0175729.35E	113	
K2	593927.62N	0175730.73E	115	
K3A	593928.02N	0175734.47E	110	
K3B	593928.69N	0175736.90E	108	
K3C	593929.02N	0175739.51E	106	
K3D	593928.00N	0175734.19E	111	
K3E	593928.86N	0175738.04E	108	
K5	593930.57N	0175751.82E	104	
K5L	593930.70N	0175752.84E	104	
K5R	593930.37N	0175750.34E	104	

ACL/INS Reference points				
STAND	INS COORD		ELEV ft	PARKING AID
Apron L				
ACL	593935.69N	0175826.21E	116	
Apron M				
M5	593846.70N	0175707.40E	94	
M6	593846.40N	0175705.93E	94	
M7	593845.85N	0175704.75E	94	
M8	593844.65N	0175701.39E	94	
M9	593843.61N	0175658.15E	94	
Apron R				
R3	593827.31N	0175532.65E	103	SAFEDOCK
R4	593826.39N	0175536.09E	102	SAFEDOCK
R5	593822.23N	0175536.13E	103	SAFEDOCK
R6	593821.13N	0175540.20E	99	SAFEDOCK
R7	593820.06N	0175544.32E	101	SAFEDOCK
R8	593819.10N	0175548.58E	98	SAFEDOCK
R9	593817.97N	0175552.60E	99	SAFEDOCK
R9C	593819.15N	0175552.91E	100	
R10	593816.98N	0175556.81E	101	SAFEDOCK
Apron S				
S1	593830.69N	0175518.15E	106	
S2	593828.82N	0175517.47E	106	
S3	593826.93N	0175516.79E	106	
S4	593825.48N	0175515.12E	107	
S5	593830.52N	0175514.12E	104	
S6	593823.63N	0175513.48E	107	
S71	593826.25N	0175509.84E	103	INOGON
S72	593825.08N	0175509.40E	103	INOGON
S73	593823.90N	0175508.99E	103	INOGON
S74	593822.72N	0175508.56E	102	INOGON
S75	593821.54N	0175508.14E	102	INOGON
S77	593819.20N	0175507.27E	100	INOGON
S78	593818.02N	0175506.86E	98	INOGON
S79	593816.84N	0175506.43E	96	INOGON
S80	593817.28N	0175510.56E	99	
S81	593816.04N	0175510.15E	97	
S82	593815.19N	0175506.61E	96	

DIMENSIONS IN METRES
ELEVATIONS IN FEET

AERODROME OBSTACLE CHART-ICAO
TYPE A-OPERATING LIMITATIONS

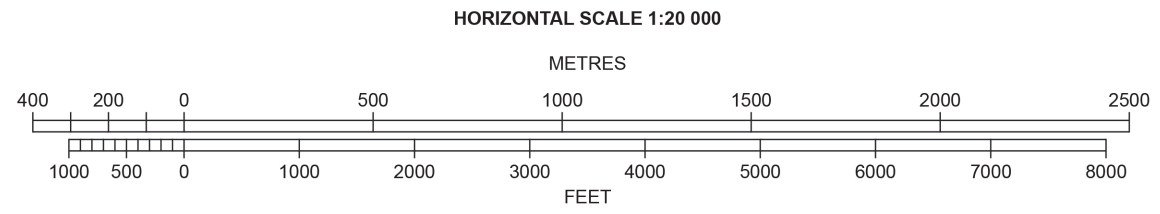
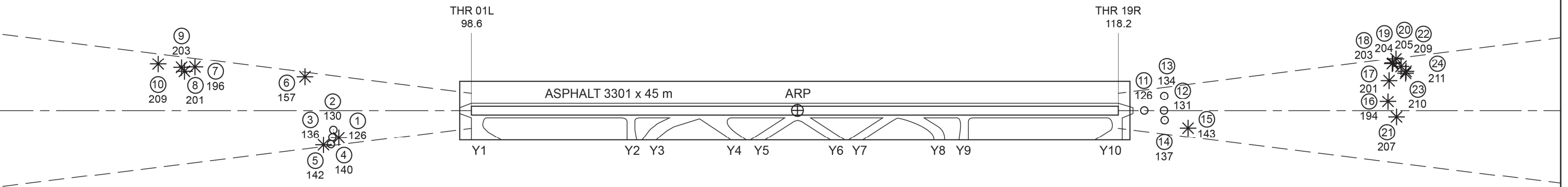
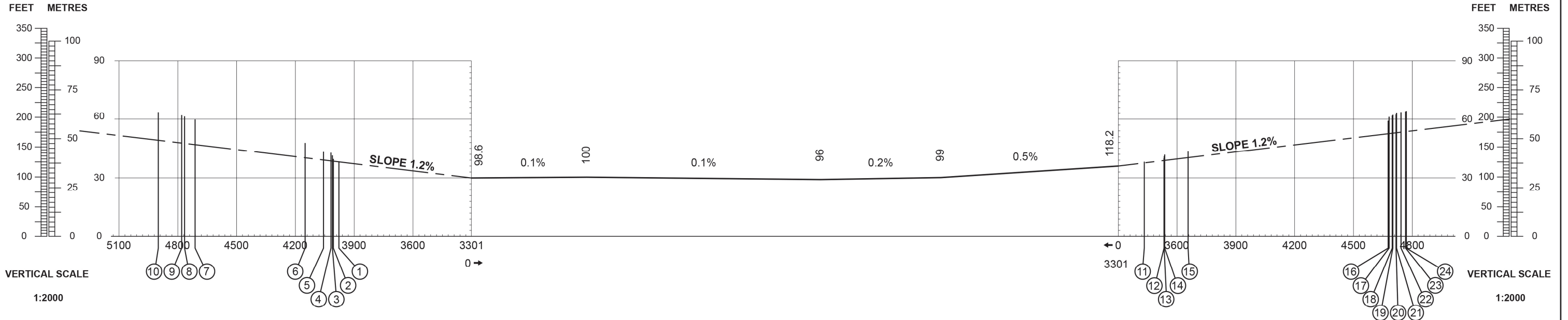
STOCKHOLM/ARLANDA
SWEDEN

AD 2-ESSA-3-1
RWY 01L/19R

AERODROME ELEVATION 138 FEET
MAGNETIC VARIATION 6° E 2020

RUNWAY BEARINGS
01L = GEO 010.37°; MAG 004°
19R = GEO 190.38°; MAG 184°

RWY 01L	DECLARED DISTANCES	RWY 19R
3301	TAKE-OFF RUN AVAILABLE	3301
3301	TAKE-OFF DISTANCE AVAILABLE	3301
3301	ACCELERATE STOP DIST. AVAILABLE	3301
3301	LANDING DISTANCE AVAILABLE	3301



ORDER OF ACCURACY
HORIZONTAL 5 m
VERTICAL 1 ft

LEGEND	
IDENTIFICATION NUMBER	②
POLE, TOWER, SPIRE, ANTENNA, ETC.	○
TREE OR SHRUB	*
BUILDING OR LARGE STRUCTURE	□

DIMENSIONS IN METRES
ELEVATIONS IN FEET

AERODROME OBSTACLE CHART-ICAO
TYPE A-OPERATING LIMITATIONS

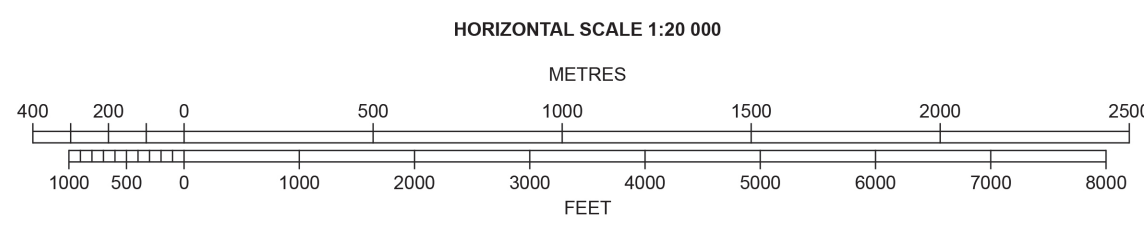
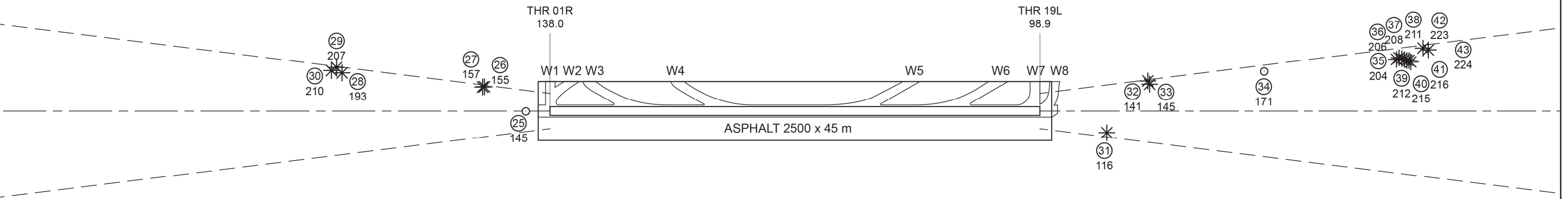
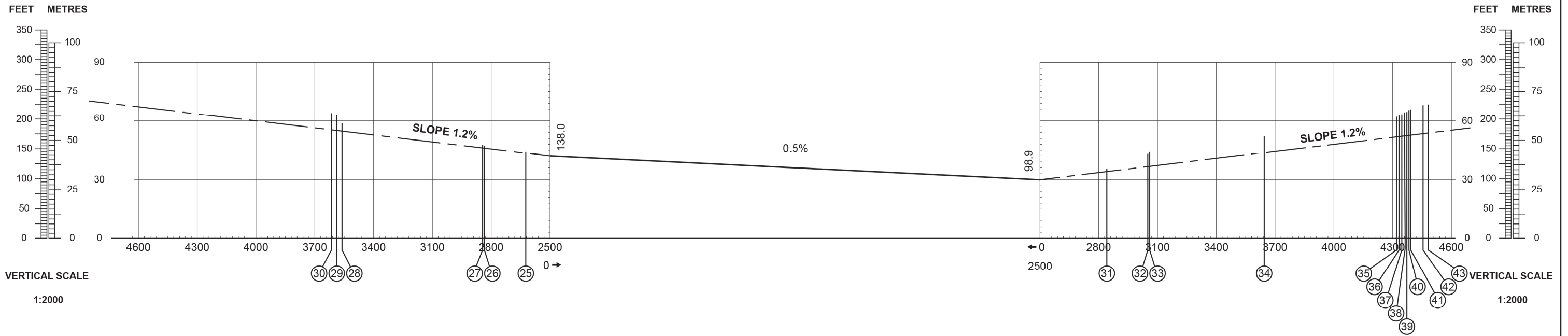
STOCKHOLM/ARLANDA
SWEDEN

AD 2-ESSA-3-3
RWY 01R/19L

AERODROME ELEVATION 138 FEET
MAGNETIC VARIATION 6° E 2020

RUNWAY BEARINGS
01R = GEO 010.40°; MAG 004°
19L = GEO 190.40°; MAG 184°

RWY 01R	DECLARED DISTANCES	RWY 19L
2500	TAKE-OFF RUN AVAILABLE	2500
2500	TAKE-OFF DISTANCE AVAILABLE	2500
2500	ACCELERATE STOP DIST. AVAILABLE	2500
2500	LANDING DISTANCE AVAILABLE	2500



ORDER OF ACCURACY
HORIZONTAL 5 m
VERTICAL 1 ft

LEGEND	
IDENTIFICATION NUMBER	②
POLE, TOWER, SPIRE, ANTENNA, ETC.	○
TREE OR SHRUB	✱
BUILDING OR LARGE STRUCTURE	□

LFV

CHANGE: Editorial.

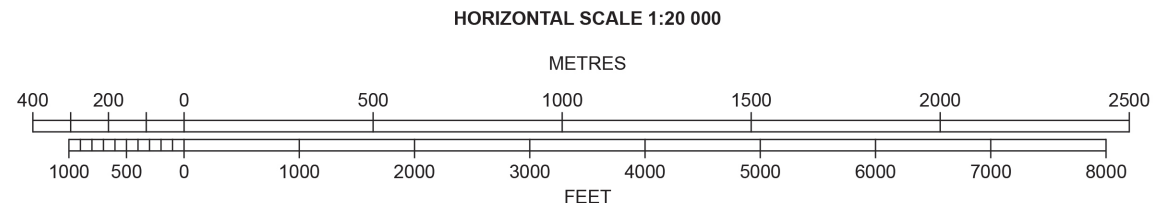
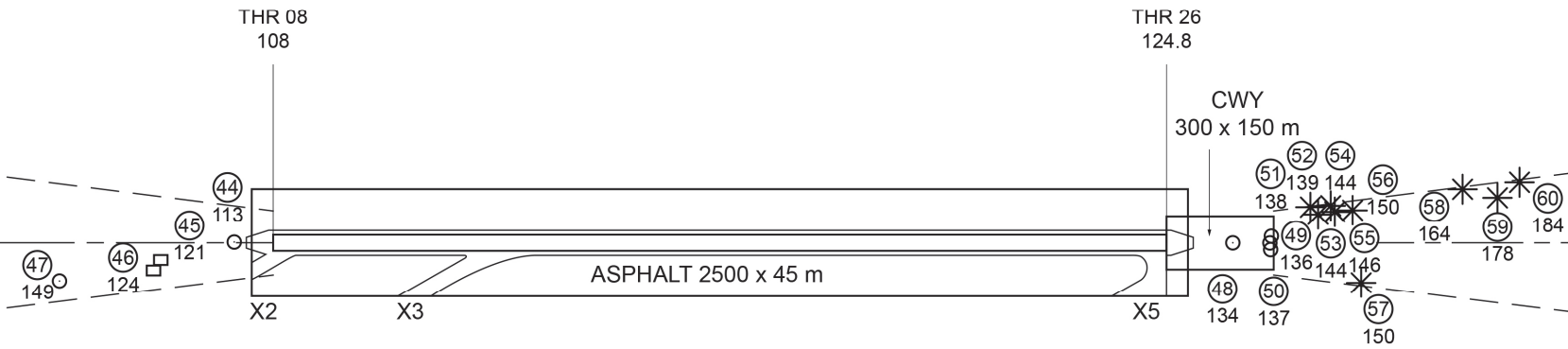
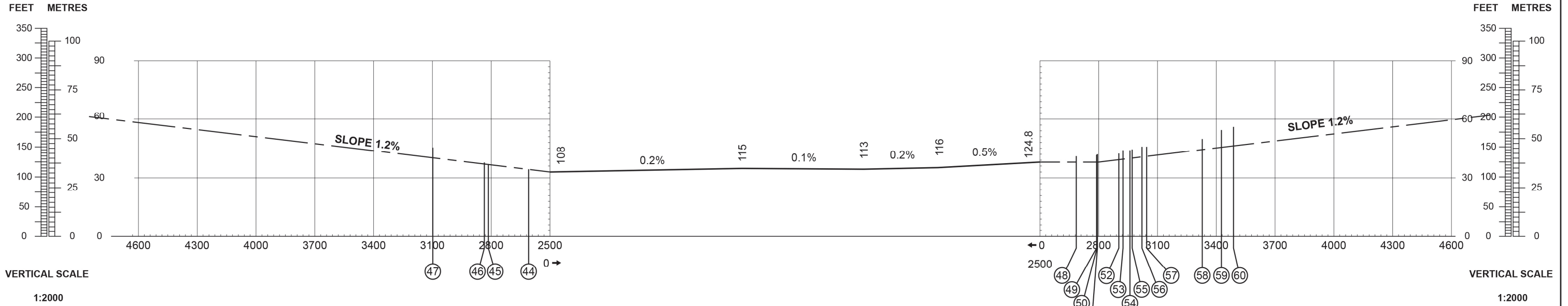
AIRAC AMDT 6/2024

ESSA-AOC 01R/19L
28 NOV 2024

AERODROME ELEVATION 138 FEET
MAGNETIC VARIATION 6° E 2020

RUNWAY BEARINGS
08 = GEO 075.86°; MAG 070°
26 = GEO 255.89°; MAG 250°

RWY 08	DECLARED DISTANCES	RWY 26
2500	TAKE-OFF RUN AVAILABLE	2500
2800	TAKE-OFF DISTANCE AVAILABLE	2500
2500	ACCELERATE STOP DIST. AVAILABLE	2500
2500	LANDING DISTANCE AVAILABLE	2500



ORDER OF ACCURACY
HORIZONTAL 5 m
VERTICAL 1 ft

LEGEND	
IDENTIFICATION NUMBER	②
POLE, TOWER, SPIRE, ANTENNA, ETC.	○
TREE OR SHRUB	*
BUILDING OR LARGE STRUCTURE	□

LFV

CHANGE: Editorial.

AIRAC AMDT 6/2024

ESSA-AOC 08/26
28 NOV 2024



CHANGE: AKVOW, BAZOQ, DIVDE and IFCAG new

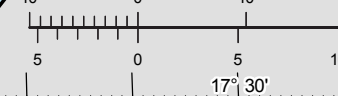
AIRAC AMDT 6/2024 28 NOV 2024

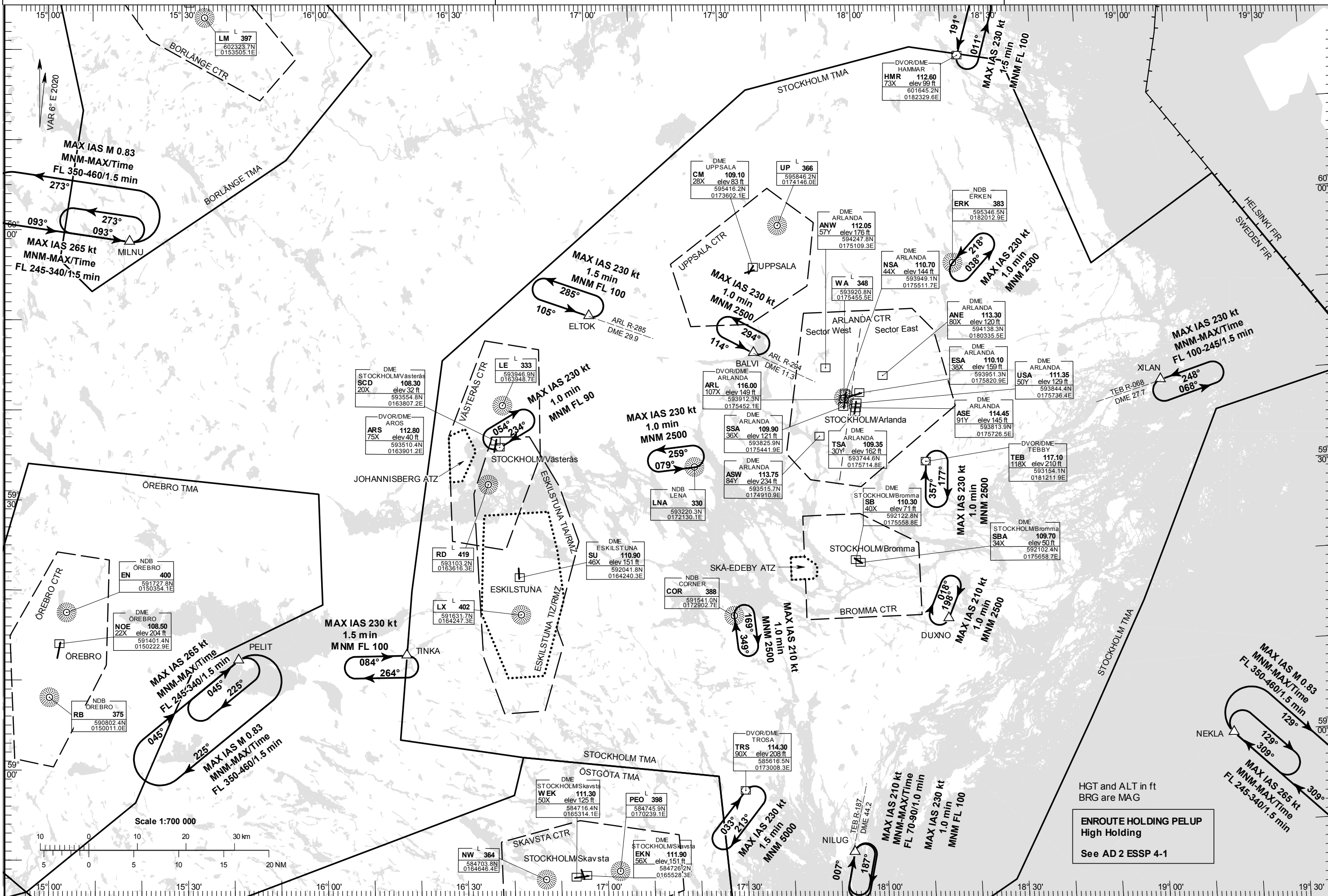
ATC Provider, Airspace information
 See ENR 2.1

LEGEND
 See GEN 2.3

ALT and ELEV in ft

Scale 1:700 000





HGT and ALT in ft
BRG are MAG

ENROUTE HOLDING PELUP
High Holding

See AD 2 ESSP 4-1

AD 2 AERODROMES**ESB 2.1 AERODROME LOCATION INDICATOR AND NAME****ESB – STOCKHOLM/BROMMA****ESB 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

- | | | |
|----|--|---|
| 1. | ARP coordinates and site at AD | 592116N 0175632E 125° GEO 840 m from THR 12 |
| 2. | Direction and distance from (city) | WNW 4 NM from centre of Stockholm |
| 3. | Elevation/Reference temperature | 47 ft/+24.9°C |
| 4. | Geoid undulation at AD ELEV PSN | 77 ft |
| 5. | MAG VAR/Annual change | 6° E 2020/+0.2 increasing |
| 6. | Administration, address, telephone, fax, AFS | Swedavia AB
SE-168 67 Bromma
TEL: +46 (0)10 109 10 00
FAX: +46 (0)10 109 05 00
E-mail: info.arlanda@swedavia.se
AFS: ESSBZTX
Website: www.swedavia.se/Bromma
www.swedavia.net/airport/Bromma |
| 7. | Types of traffic permitted (IFR/VFR) | IFR/VFR. Max RWY ref code 3C |
| 8. | Remarks | PPR for all non-scheduled flights. For application and details see ESB 2.20 |

ESB 2.3 OPERATIONAL HOURS

- | | | |
|-----|---|--|
| 1. | AD Administration
AD Operating hours | Ref AIP SUP/NOTAM
Ref AIP SUP/NOTAM |
| 2. | Customs and immigration | O/R |
| 3. | Health and sanitation | - |
| 4. | AIS Briefing Office | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 5. | ATS Reporting Office (ARO) | As ATS |
| 6. | MET Briefing Office | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 7. | ATS | MON-FRI 0545-2100 (0445-2000),
SAT 0745-1600 (0645-1500), SUN 1045-2100 (0945-2000) |
| 8. | Fuelling | MON-FRI 0500-2100 (0400-2000),
SAT 0700-1600 (0600-1500), SUN 1000-2100 (0900-2000) |
| 9. | Handling | MON-FRI 0500-2100 (0400-2000),
SAT 0700-1600 (0600-1500), SUN 1000-2100 (0900-2000) |
| 10. | Security | MON-FRI 0500-2100 (0400-2000),
SAT 0700-1600 (0600-1500), SUN 1000-2100 (0900-2000) |
| 11. | De-icing | MON-FRI 0500-2100 (0400-2000),
SAT 0700-1600 (0600-1500), SUN 1000-2100 (0900-2000) |
| 12. | Remarks | See ESB 2.20 |

ESSB 2.4 HANDLING SERVICES AND FACILITIES

1.	Cargo-handling facilities	Limited/By arrangement
2.	Fuel/oil types	Fuel Jet A1, 100LL Oil Turbo oil, Piston oil, Hydraul oil
3.	Fuelling facilities/discharge capacity	Jet A1: Fuelling trucks. No limitations 100LL: Stationary unit 25,000 l, 90 l/min
4.	De-icing facilities	Available, Type I and II, mobile unit
5.	Hangar space for visiting ACFT	Limited
6.	Repair facilities for visiting ACFT	Available, various types
7.	Remarks	For payment of fuel Jet A1 only BP and Shell fuel card accepted. Fuel 100LL prior arrangement required through handling companies. Oil prior arrangement required.

ESSB 2.5 PASSENGER FACILITIES

1.	Hotels	At AD
2.	Restaurants	At AD
3.	Transportation	Buses, tram, taxis, rental cars
4.	Medical facilities	In City
5.	Bank and Post Office	In City
6.	Tourist Office	In City
7.	Remarks	-

ESSB 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	CAT 6
2.	Rescue equipment	Tracked vehicle in accordance with AD category for firefighting CAT 6 and arrangement with additional recourses from municipal rescue service
3.	Capability for removal of disabled aircraft	By arrangement. On-the-scene commander during AD Operating hours, APOC Supervisor TEL: +46 (0)10 109 13 00
4.	Remarks	-

ESSB 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	Snowploughs, blowers, sweepers, loaders, graders
2.	Clearance priorities	RWY, TWY, Apron
3.	Remarks	RWY 12/30, TWYs and aprons de-iced with KFOR/NAFO/SAND

ESSB 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

- | | | |
|----|-------------------------------------|--|
| 1. | Apron surface and strength | Apron 1 ASPH PCN 82 F/B/X/T
Apron 2 ASPH PCN 85 F/B/X/T
Apron 3 ASPH PCN 80 F/B/X/T
Apron 4 ASPH PCN 44 F/B/X/T
Apron 6 ASPH PCN 14 F/A/X/T
Apron 7 ASPH PCN 19 F/B/X/T Narrow part connecting to TWY S PCN 12 F/A/X/T
Apron East ASPH PCN 98 F/A/X/T (W part: PCN 30 F/A/X/T)
Apron Remote North ASPH PCN 101 F/A/X/T |
| 2. | Taxiway width, surface and strength | TWY G1 20 m ASPH PCN 9 F/B/X/T
TWY R 16 m ASPH PCN 40 F/A/X/T
TWY S 15 m ASPH PCN 120 F/A/X/T
TWY T 19 m ASPH PCN 100 F/A/X/T
TWY Y 19 m ASPH PCN 59 F/A/X/T
TWY Y1 19 m ASPH PCN 60 F/A/X/T
TWY Y2 20 m ASPH PCN 38 F/B/X/T
TWY Y3 19 m ASPH PCN 64 F/A/X/T
TWY Y4 19 m ASPH PCN 55 F/B/X/T
TWY Y5 19 m ASPH PCN 38 F/A/X/T
TWY YU 24 m ASPH PCN 71 F/A/X/T
TWY YW 24 m ASPH PCN 103 F/A/X/T |
| 3. | ACL, location and elevation | Apron, see AD 2 ESB 2-3 |
| 4. | VOR checkpoints | - |
| 5. | INS checkpoints | See AD 2 ESB 2-3 |
| 6. | Remarks | - |

ESSB 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

- | | | |
|----|---|--|
| 1. | Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of ACFT stands | Apron 1: Taxi guide lines and signs. Marshalling available.
Apron 2: Taxi guide lines and signs. Marshalling available.
Apron 3: Taxi guide lines and signs. Marshalling available.
Apron 4: Taxi guide lines and signs. Marshalling available.
Apron 6: Taxi guide lines and signs. Marshalling available.
Apron 7: Taxi guide lines and signs. Marshalling available.
Apron East: Taxi guide lines and signs. Marshalling available.
Apron Remote North: No taxiing, for towing operation only. |
| 2. | RWY and TWY markings and LGT | RWY 12/30: Designator,THR, TDZ, CL and edges day marked. RTHL, RENL and REDL.

TWY G1: CL, HLDG day marked. Edge lights, RGL
R: CL day marked. CL lights
S: CL day marked. CL lights
T: CL day marked. CL lights
Y: CL day marked. CL lights
Y1: CL, HLDG day marked. CL lights, RGL
Y2: CL, ITHP day marked. CL lights
Y3: CL, HLDG day marked. CL lights, RGL
Y4: CL, HLDG day marked. CL lights, RGL
Y5: CL, HLDG day marked. CL lights, RGL
YU: CL, ITHP day marked. CL lights
YW: CL, ITHP day marked. CL lights |
| 3. | Stop bars | At TWY HLDG |
| 4. | Remarks | - |

ESSB 2.10 AERODROME OBSTACLES

In Area 2					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT in feet	Markings/ Type, colour	Remarks
a	b	c	d	e	f
ESSB1	LOC	592057.0N 0175722.4E	55 / -	-	-
ESSB2	Lamp-post	592057.7N 0175724.4E	59 / -	-	-
ESSB3	Lamp-post	592057.3N 0175724.5E	60 / -	-	-
ESSB4	Lamp-post	592057.0N 0175724.7E	61 / -	-	-
ESSB5	Lamp-post	592056.6N 0175724.8E	61 / -	-	-
ESSB6	Antenna	592058.7N 0175727.7E	70 / -	-	-
ESSB7	Antenna	592049.4N 0175731.1E	86 / -	-	-
ESSB8	Chimney	592047.9N 0175736.2E	91 / -	-	-
ESSB9	Forest	592043.6N 0175743.0E	105 / -	-	-
ESSB10	Forest	592044.1N 0175745.5E	113 / -	-	-
ESSB11	Forest	592042.1N 0175747.8E	116 / -	-	-
ESSB12	Forest	592046.8N 0175811.4E	129 / -	-	-
ESSB13	Antenna	592021.7N 0175854.4E	192 / -	-	-
ESSB14	Antenna	592021.4N 0175856.5E	195 / -	-	-
ESSB15	Antenna	592022.9N 0175859.8E	213 / -	-	-
ESSB16	Antenna	591941.2N 0180059.0E	351 / -	-	-
ESSB17	Antenna	591940.8N 0180058.5E	364 / -	-	-
ESSB18	Lamp-post	592135.2N 0175531.8E	57 / -	-	-
ESSB19	Lamp-post	592135.6N 0175531.7E	58 / -	-	-
ESSB20	Lamp-post	592135.0N 0175530.1E	59 / -	-	-
ESSB21	Lamp-post	592134.8N 0175528.1E	60 / -	-	-
ESSB22	Lamp-post	592134.5N 0175526.4E	66 / -	-	-
ESSB23	Forest	592135.9N 0175521.2E	72 / -	-	-
ESSB24	Forest	592138.3N 0175522.3E	76 / -	-	-
ESSB25	Forest	592138.4N 0175521.9E	78 / -	-	-
ESSB26	Forest	592142.6N 0175524.6E	85 / -	-	-
ESSB27	Forest	592145.8N 0175523.4E	102 / -	-	-
ESSB28	Forest	592137.6N 0175511.0E	118 / -	-	-
ESSB29	Forest	592147.3N 0175453.8E	135 / -	-	-
ESSB30	Forest	592147.2N 0175453.0E	135 / -	-	-
ESSB31	Forest	592147.3N 0175452.3E	136 / -	-	-
ESSB32	Forest	592153.3N 0175458.4E	140 / -	-	-
ESSB33	Forest	592154.0N 0175435.5E	153 / -	-	-
ESSB34	Forest	592200.8N 0175420.9E	172 / -	-	-

ESSB35	Forest	592203.6N 0175424.4E	194 / -	-	-
ESSB36	Forest	592203.5N 0175424.2E	195 / -	-	-
ESSB37	Forest	592203.3N 0175421.8E	206 / -	-	-

In Area 3					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
Not available					

ESSB 2.11 METEOROLOGICAL INFORMATION PROVIDED

- | | | |
|-----|---|--|
| 1. | Associated MET Office | STOCKHOLM/Arlanda |
| 2. | Hours of service
MET Office outside hours | H24 |
| 3. | Office responsible for TAF preparation
Periods of validity, interval of issuance | STOCKHOLM/Arlanda
9 HR, https://tafplanner.smhi.se/app.php/production-program |
| 4. | Type of landing forecast
Interval of issuance | Not issued |
| 5. | Briefing/consultation provided | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 6. | Flight documentation
Language(s) used | TAF, METAR, SIGMET, Upper air winds
Swedish/English |
| 7. | Charts and other information available for
briefing or consultation | SWC, WC, Nordic SIGWX Chart, Low level forecast |
| 8. | Supplementary equipment available for
providing information | - |
| 9. | ATS units provided with information | STOCKHOLM/Bromma TWR |
| 10. | Additional information (limitation of service,
etc.) | - |

ESSB 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	True BRG and MAG BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APCH RWY
1	2	3	4	5	6
12	125.01° GEO 119° MAG	1668 x 45	PCN 138 F/B/X/T ASPH	592131.21N 0175546.72E BGN RWY: 592133.25N 0175540.98E GUND 76.1 ft	THR 46.5 ft TDZ 46.5 ft
30	305.03° GEO 299° MAG	1668 x 45	PCN 138 F/B/X/T ASPH	592100.28N 0175713.17E BGN RWY: 592058.22N 0175718.91E GUND 76.0 ft	THR 42.8 ft TDZ 42.8 ft

Designations RWY NR	Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	RESA dimensions (m)
1	7	8	9	10	11
12	See ESSB AOC	-	-	1788 x 280	90 x 90
30	See ESSB AOC	-	-	1788 x 280	90 x 90

Designations RWY NR	Location/ description of arresting system	OFZ (Yes/No)	Remarks
1	12	13	14
12	-	Yes	Part of strip, width 250 m
30	-	Yes	Part of strip, width 250 m

ESSB 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
12	1668	1668	1668	1668	-
TWY Y1	1779	1779	1779	-	Start extension 111 m included.
30	1668	1668	1668	1668	-
TWY Y5	1779	1779	1779	-	Start extension 111 m included.

3. Särskilda föreskrifter omkring öppningsstid

Klarering och start-up får inte begäras tidigare än 15 minuter före öppethållningstid enligt mom 1.

Taxningstillstånd för utkörning i samband med start får inte begäras tidigare än 5 minuter före öppethållningstid enligt mom 1.

4. Särskilda föreskrifter för trafik före stängning

4.1. Ankommande trafik

Inflygning får utföras av luftfartyg som framförs enligt:

- a) IFR, om det senast 5 minuter före stängningstid befinner sig inom 15 track miles från flygplatsen.
- b) VFR, om det senast 5 minuter före stängningstid har passerat in i BROMMA CTR.

4.2. Avgående trafik

Luffartyg lämnas starttillstånd endast om utkörning till start har påbörjats senast 5 minuter innan stängningstid.

5. Start-up och klarering

Start-up och ATC klarering skall begäras från »Ground» på kanal 121.605. Luftfartygets position samt identifieringsbeteckning för senast erhållna ATIS-utsändning skall anges vid första anrop. För IFR kan begäran ske tidigast 30 min före EOBT.

6. Föreskrifter vid taxning

6.1. All taxning inom färdområdet skall påbörjas inom ATS öppethållningstider.

6.2. Taxningsprocedurer

Ankommande trafik bana 12 ska lämna rullbanan via TWY Y4, Y5 eller G1. När bankondition så medger undvik att lämna via TWY Y5, detta för att minska störningar på LOC 12 för efterföljande luftfartyg.

Ankommande trafik bana 30 ska lämna rullbanan via TWY Y3, Y1 eller G1.

Ankommande trafik bana 30 ska taxa via TWY Y till uppställningsplats 3-6, och via TWY T till uppställningsplats 7-19 (eller enligt klarering från ATC).

Avgående trafik bana 12 ska taxa via TWY Y från uppställningsplats 3-7, och via TWY T från uppställningsplats 8-19 (eller enligt klarering från ATC).

Hastigheten begränsad till max 15 kt vid taxning på plattorna samt på TWY Y längs platta 1.

Slutlig intaxning till uppställningsplats 3-19 är förbjuden utan assistans av rangeringspersonal. Luftfartyg skall vänta på plattans inkörnings- eller inriktningsspår utanför uppställningsplats tills rangeringspersonal anländer.

Begränsad sikt råder för avgående trafik från uppställningsplats 11-14 gentemot ankommande trafik till platta 2. Styrman rekommenderas hålla uppsikt höger/bakåt innan och under taxning från uppställningsplatsen.

Vid inhämtande av taxiinstruktioner för korsning av rullbanan ska taxiinstruktionen alltid innehålla frasen "**Korsa banan**".

3. Special regulations around opening hours

ATC clearance and start-up must not be requested until 15 minutes prior to the opening time in accordance with para 1.

Clearance to taxi in connection with take-off must not be requested until 5 minutes prior to the opening time in accordance with para 1.

4. Special regulations for traffic around closing time

4.1. Inbound traffic

Approach may, however, be carried out by an aircraft operated in accordance with:

- a) IFR, if it by 5 minutes before closing time is within 15 track miles from the aerodrome.
- b) VFR, if it by 5 minutes before closing time has entered Bromma CTR.

4.2. Outbound traffic

An aircraft will receive take-off clearance only if the taxiing for take-off has been initiated by 5 minutes before closing time.

5. Start-up and clearance

Start-up and ATC clearance shall be requested from »Ground» on channel 121.605. Aircraft position and identification of ATIS broadcast latest received shall be given at initial call. For IFR traffic shall request not be made earlier than 30 min before EOBT.

6. Taxi regulations

6.1. Taxiing within the movement area is to be commenced during ATS hours of operation.

6.2. Taxi procedures

Arriving traffic on RWY 12 shall vacate the runway via TWY Y4, Y5 or G1. When performance conditions permit avoid vacating via TWY Y5, in order to prevent deviations on LOC 12 for following aircraft.

Arriving traffic on RWY 30 shall vacate the runway via TWY Y3, Y1 or G1.

Arriving traffic on RWY 30 shall use TWY Y to stands 3-6 and TWY T to stands 7-19 (or as cleared by ATC).

Departing traffic on RWY 12 shall use TWY Y from stands 3-7, and TWY T from stands 8-19 (or as cleared by ATC).

Taxi speed restricted to max 15 kt on aprons and on TWY Y alongside apron 1.

Final taxiing to position at stand 3-19 is not allowed without marshalling assistance. Aircraft shall wait on apron taxi line or outside parking stand, whichever applicable, until marshal arrives.

Limited visibility for departing traffic from stand 11-14 in respect to arriving traffic to apron 2. First Officer is recommended to carefully watch right/back before and during commencing taxiing to stand.

Clearance for crossing of the runway shall always include the phrase "**Cross runway**".

Taxning till/från platta 4 via TWY R förväntas taxa kortaste väg på TWY T till/från TWY Y (alltså ej via platta 2).

Taxning till och från plattorna 6 och 7 är begränsad till luftfartyg med vingspann maximalt 29 m samt spårvidd huvudställ maximalt 5 m.

Taxning till/från platta 6 och 7 via TWY S förväntas taxa kortaste väg på TWY T till/från TWY Y (alltså ej via platta 2).

Taxning till och från uppställningsplats R5 – R9 är inte tillåtet, endast bogsering. För bogsering kontakta Bromma Operations Center TEL 010 109 41 40.

Luftfartygsrörelser inom samtliga plattor där dagermarkering taxningslinje saknas, skall assisteras av rangeringspersonal. Undantag medges endast för luftfartyg till/från tankningsanläggning på Apron East, där befälhavare navigerar under egen uppsikt och säkerställer korrekt positionering inom därför avsedd yta.

7. Skol-, uppvisning- och övningsflygning med flygplan och helikopter

Det är inte tillåtet att utföra upprepade start- och landningsövningar samt uppvisningsflyg på eller i närheten av flygplatsen.

Simulering av motorbortfall är inte tillåten.

För att minska bullerstörning är hovring i skol- och övningsflygning ej tillåtet. Helikoptrar får endast hovra i samband med taxning.

8. Undvikande av jetstrålar

För att undvika jetstrålar på parkerade luftfartyg på ramper gäller följande procedur: Luftfartyg som under någon del av intaxning eller uttaxning har parkerade luftfartyg bakom sig får inte använda högre effekt än "idle". Luftfartyg som av någon orsak under dessa förhållande stannas, skall för att undvika användandet av "brake-away", begära assistans för att dras till position för slutgiltig parkering alternativt position där användandet av "brake-away" inte längre utgör någon fara.

9. Motortestplats

Motortestplats endast tillgänglig när dagsljus råder MON-SAT 0800-1500 (0700-1400) och SUN 1100-1500 (1000-1400) med en sammanhängande tid på max 30 min.

Kontrollkörning av motorer är endast tillåten efter godkännande från Aircraft Stand Parking, Telefon: 010 109 10 52.

10. D-ATIS

D-ATIS tillgängligt via ACARS för FPL utrustade med ACARS-MU. (AEEC 623 kompatibla) (ARINC är leverantör för datalänkkommunikation och ESSB flygplats för ATIS service.)

Taxiing to/from apron 4 via TWY R is expected to taxi shortest route on TWY T to/from TWY Y (i.e. not via apron 2).

Taxiing to/from apron 6 and 7 is limited to maximum wingspan 29 m and main gear wheelspan maximum 5 m. Taxiing to/from apron 6 and 7 via TWY S is expected to taxi shortest route on TWY T to/from TWY Y (i.e. not via apron 2).

Taxing to and from remote parking R5 – R9 is not allowed. Towing only. For towing contact Bromma Operations Center by phone +46 (0)10 109 41 40.

Aircraft movements within all aprons where daylight marking taxi lines are not present, must be guided by marshalling assistance. Exception is granted only to Aircraft navigating to/from fuelling station on Apron East, where commander is navigating under own supervision and ensuring correct positioning within therefore intended area.

7. School flights, training flights and aerobatics with aircraft and helicopter

Repeated take-off and landing exercises and aerobatics at or in the vicinity of the airport is not permitted.

Simulated engine failures are not permitted.

Due to noise, hovering for school and training purposes is not allowed. Helicopters are only allowed to hover for airtaxi purposes.

8. Avoidance of jet blast

To avoid jet blast on parked aircraft on apron following procedure applies: Aircraft at any part of in- or outtaxiing having aircraft parked behind, shall not use more than idle thrust. Aircraft for any reason been forced into stop during these circumstances, shall to avoid any use of brake-away thrust, request assistance for pull into position of final stop or position where use of brake-away power no longer constitute danger.

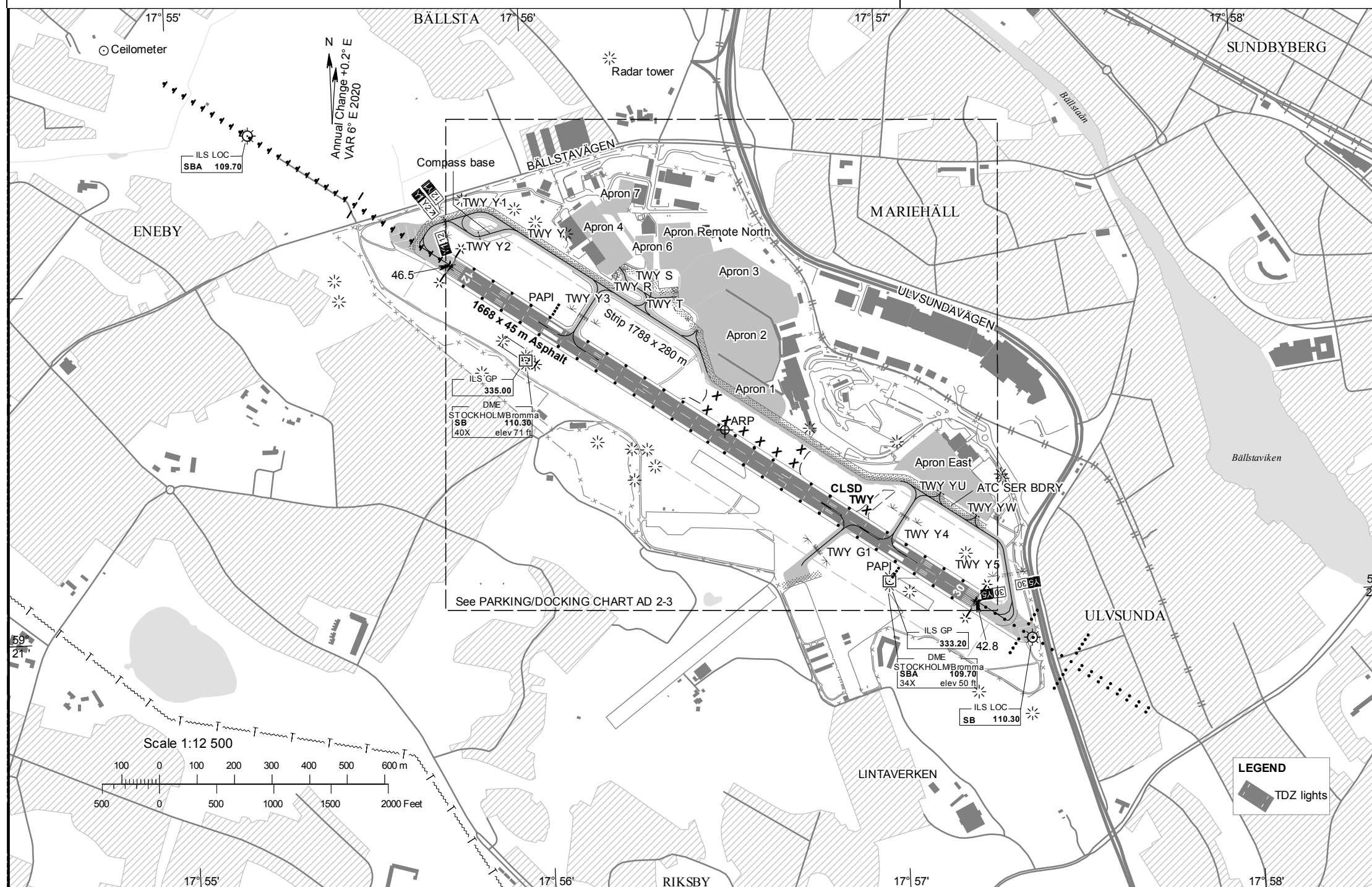
9. Engine test area

Engine test area only available during daylight operation MON-SAT 0800-1500 (0700-1400) and SUN 1100-1500 (1000-1400) with a continuous time of max 30 min.

Test running of engines is only allowed after approval from Aircraft Stand Parking, Phone: +46 (0)10 109 10 52.

10. D-ATIS

D-ATIS service available by ACARS for ACFT equipped with ACARS-MU. (AEEC 623 compliant) (Provider is ARINC for datalink com and ESSB airport for ATIS service.)



ARP 592116N 0175632E

AD ELEV 47 FEET

LEGEND See GEN 2.3

Dimensions in m, ELEV in ft

TWY NR	WIDTH	Surface Bearing strength	Day marking		Taxiway lighting	
			Centerline	Edge	Centerline	RGL
G1	20 m	PCN 9 F/B/X/T	CL HLDG	EDGE	CL	STOPBAR
R	16 m	PCN 40 F/A/X/T	CL	CL		
S	15 m	PCN 120 F/A/X/T	CL	CL		
T	19 m	PCN 100 F/A/X/T	CL	CL		
Y	19 m	PCN 59 F/A/X/T	CL	CL		
Y1	19 m	PCN 60 F/A/X/T	CL HLDG	CL		RGL STOPBAR
Y2	20 m	PCN 38 F/B/X/T	CL ITHP	CL		
Y3	19 m	PCN 64 F/A/X/T	CL HLDG	CL		RGL STOPBAR
Y4	19 m	PCN 55 F/B/X/T	CL HLDG	CL		RGL STOPBAR
Y5	19 m	PCN 38 F/A/X/T	CL HLDG	CL		RGL STOPBAR
YU	24 m	PCN 71 F/A/X/T	CL ITHP	CL		
YW	24 m	PCN 103 F/A/X/T	CL ITHP	CL		

REMARK: Pilot will receive instructions to change to GND frequency from TWR after landing.

For Apron surface/bearing strength/INS coordinates see AD 2-3

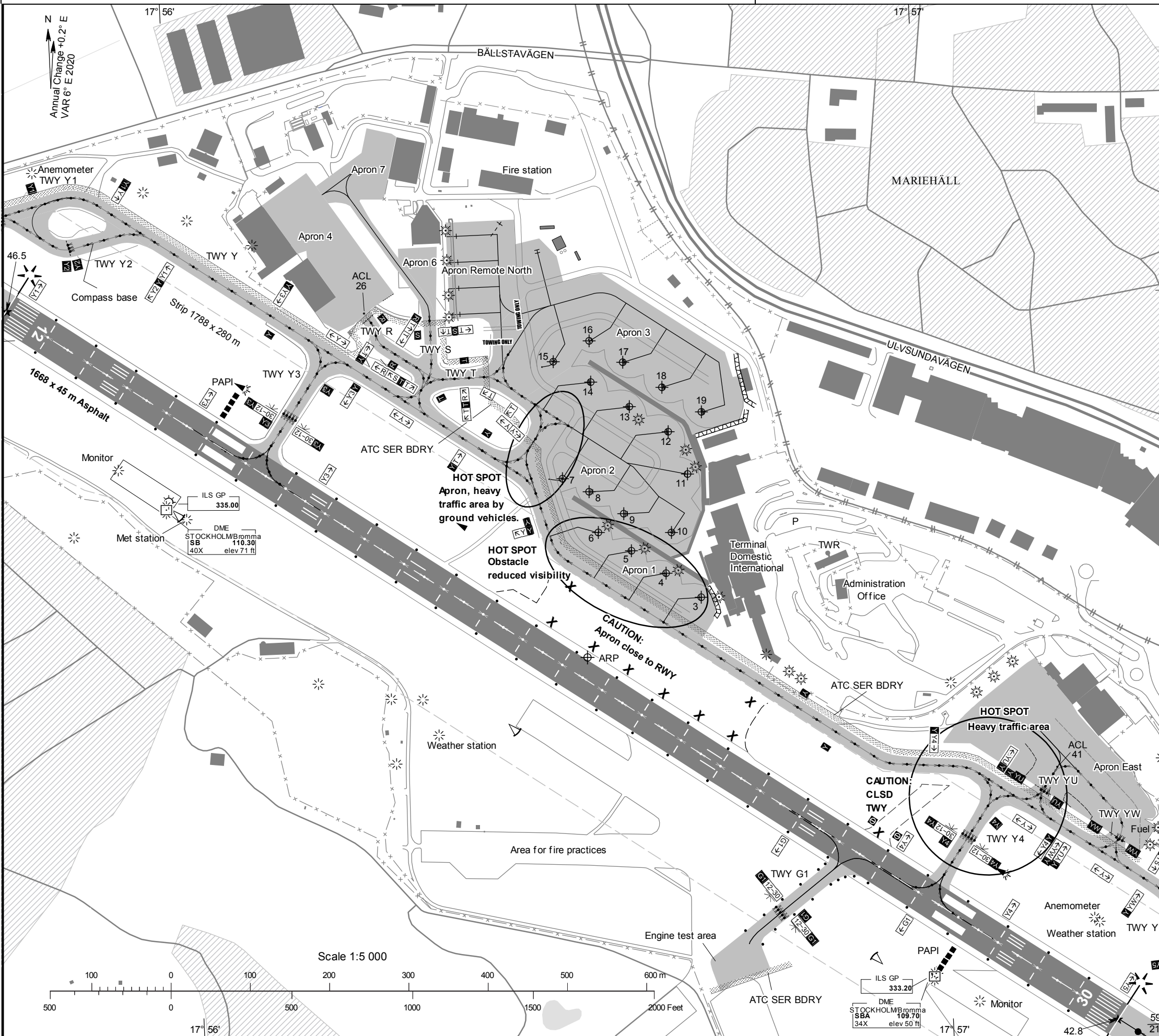
RWY NR	TRUE & MAG BRG	THR PSN Geoid undulation	Bearing Strength	THR ELEV and highest ELEV of TDZ of precision APCH RWY	Declared distances				Approach and runway lighting					
					TORA	TODA	ASDA	LDA	APCH	THR TRID TDZ	VASIS (MEHT)	RWY CL	Edge	End
12	125.01° GEO 119° MAG	592131.21N 0175546.72E GUND 76.1 ft	PCN 138 F/B/X/T	THR 46.5 ft TDZ 46.5 ft	1668	1668	1668	1668	Barrette CL Cat I 900 m LIH	THR Green TDZ white 830 m	PAPI Left/3.50° (55.8 ft)	1668/30 m 0-834 m white 834-1368 m white/red 1368-1668 m red LIH	1668/60 m White Caution zone 600 m yellow LIH	Red
30	305.03° GEO 299° MAG	592100.28N 0175713.17E GUND 76.0 ft	PCN 138 F/B/X/T	THR 42.8 ft TDZ 42.8 ft	1668	1668	1668	1668	Calvert Cat I 556 m LIH	THR Green TDZ white 830 m	PAPI Left/3.50° (37.7 ft)	1668/30 m 0-834 m white 834-1368 m white/red 1368-1668 m red LIH	1668/60 m White Caution zone 600 m yellow LIH	Red

REMARK : Part of strip, width 250 m.
RWY 12 EFAS 900 m. RWY 30 EFAS 556 m.
For Declared Distances TKOF from TWY Y1, Y5, see AD 2 ESSB 3-1.

TWY NR	WIDTH	Surface Bearing strength	Day marking		Taxiway lighting	
			Centerline Holding	Edge Centerline	RGL Stopbar	RGL STOPBAR
G1	20 m	PCN 9 F/B/X/T	CL HLDG	EDGE		
R	16 m	PCN 40 F/A/X/T	CL	CL		
S	15 m	PCN 120 F/A/X/T	CL	CL		
T	19 m	PCN 100 F/A/X/T	CL	CL		
Y	19 m	PCN 59 F/A/X/T	CL	CL		
Y1	19 m	PCN 60 F/A/X/T	CL HLDG	CL		RGL STOPBAR
Y2	20 m	PCN 38 F/B/X/T	CL ITHP	CL		
Y3	19 m	PCN 64 F/A/X/T	CL HLDG	CL		RGL STOPBAR
Y4	19 m	PCN 55 F/B/X/T	CL HLDG	CL		RGL STOPBAR
Y5	19 m	PCN 38 F/A/X/T	CL HLDG	CL		RGL STOPBAR
YU	24 m	PCN 71 F/A/X/T	CL ITHP	CL		
YW	24 m	PCN 103 F/A/X/T	CL ITHP	CL		

REMARK: Pilot will receive instructions to change to GND frequency from TWR after landing.

INS Coordinates for Aircraft Stands			
APRON Bearing strength	NR	COORD	ELEV
Apron 1 ASPH PCN 82 F/B/X/T	3	592118.27 N 0175641.31 E	18
	4	592119.31 N 0175638.60 E	17
	5	592120.29 N 0175635.90 E	18
	6	592121.09 N 0175633.30 E	18
Apron 2 ASPH PCN 85 F/B/X/T	7	592123.37 N 0175630.63 E	18
	8	592122.78 N 0175632.72 E	18
	9	592121.82 N 0175635.41 E	17
	10	592120.96 N 0175639.17 E	18
	11	592123.33 N 0175640.65 E	16
	12	592125.10 N 0175639.26 E	15
	13	592126.18 N 0175636.24 E	16
Apron 3 ASPH PCN 80 F/B/X/T	14	592127.26 N 0175633.22 E	18
	15	592128.16 N 0175630.31 E	18
	16	592128.95 N 0175633.26 E	19
	17	592128.02 N 0175635.87 E	18
Apron East ASPH PCN 98 F/A/X/T (W part: PCN 30 F/A/X/T)	18	592126.93 N 0175638.93 E	16
	19	592125.84 N 0175641.98 E	15
Apron 4 ASPH PCN 44 F/B/X/T			
Apron 6 ASPH PCN 14 F/A/X/T			
Apron 7 ASPH PCN 19 F/B/X/T Narrow part connecting to TWY S PCN 12 F/A/X/T			
Apron Remote North ASPH PCN 101 F/A/X/T			



ESKN 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. Restriktioner för skol- och övningsflygning

PPR gäller för all skol- och övningsflygning. PPR gäller även all annan flygning som innebär TGL och/eller "airwork" i ESKN CTR.

Flygning med studs och gå får endast ske mellan klockan:
MON-FRI 0500-2000 (0400-1900)
SAT 0600-2000 (0500-1900)
SUN and HOL 0800-1500 (0700-1400)

När ÖSTGÖTA APP är stängd får skolflygning inom ÖSTGÖTA TMA utföras endast efter förhandstillstånd från skiftledaren vid STOCKHOLM ACC, TEL 08 585 547 00.

2. Platta 1 och Platta 2: Intaxning till uppställningsplats

Intaxning till uppställningsplats får endast ske med hjälp av manuella rangeringssignaler. Utöver manuella rangeringssignaler kan "Follow-Me bil" användas.

3. Undvikande av jetstrålar

För att undvika jetstrålar tillåts endast tomgångsvarv vid intaxning till uppställningsplats 8, 9 och 10A.

ESKN 2.21 MINSKNING AV BULLERSTÖRNING

1. Luftfartyg certifierade enligt ICAO Annex 16, Vol I, Kapitel 1 och 2 får inte trafikera flygplatsen.

2. Standardproceduren för att reducera buller vid flygplatsen (NADP 2) ska tillämpas. Ref ICAO Procedures for AIR Navigation Services – Aircraft Operations (PANS-OPS Doc 8168) Vol I – Flight Procedures.

3. För flygplan med MTOM överstigande 7000 kg gäller:

- Dagligen 0600-1700 (0500-1600): Flygplan som utför visuell inflygning får inte understiga 2000 ft AMSL innan etablering på banans centrumlinje.
- Dagligen 1700-0600 (1600-0500): Visuella inflygning ej tillåtet.

4. Över tätbebyggt område

Över Nyköping och Stigtomta bör luftfartyg inte framföras på lägre höjd än 3000 ft AMSL, utom då så är nödvändigt i samband med start och landning.

Angivna flygvägar, IFR och VFR, har upprättats även för att minska bullerstörningar. Luftfartyg skall noggrant följa i färdtillstånd angiven flygväg samt i övrigt framföras så att onödiga bullerstörningar inte förorsakas.

LOCAL TRAFFIC REGULATIONS

1. Restrictions for school and training flights

PPR required for all school and training flights. PPR also required for all other flights involving TGL and/or airwork within ESKN CTR.

Flights with touch-and-go landings are only permitted:
MON-FRI 0500-2000 (0400-1900)
SAT 0600-2000 (0500-1900)
SUN and HOL 0800-1500 (0700-1400)

When ÖSTGÖTA APP is not in operation, training flights within ÖSTGÖTA TMA may be carried out only after prior permission from the Supervisor at STOCKHOLM ACC, phone +46 (0)8 585 547 00.

2. Apron 1 and Apron 2: Taxiing to stand position

When taxiing to stand position, guidance by manual marshalling signals is mandatory. In addition to manual marshalling signals, a "Follow-Me car" may be used.

3. Avoidance of jet blast

Use idle thrust due to jet blast risk when taxiing to stands 8, 9 and 10A.

NOISE ABATEMENT PROCEDURES

1. Aircraft certificated in accordance with ICAO Annex 16, Vol I, Chapter 1 and 2 must not use the aerodrome.

2. Noise Abatement Departure Procedure alleviating noise at the aerodrome (NADP 2) shall be used. Ref ICAO Procedures for AIR Navigation Services – Aircraft Operations (PANS-OPS Doc 8168) Vol I – Flight Procedures.

3. For aircraft with MTOM exceeding 7000 kg the following applies:

- Daily 0600-1700 (0500-1600). Aircraft performing visual APCH must not descend below 2000 ft AMSL before established on RWY CL.
- Daily 1700-0600 (1600-0500): Visual approach not permitted.

4. Over built up areas

Over Nyköping and Stigtomta aircraft should not be operated below 3000 ft AMSL, except when necessary for take-off and landning.

Routes for inbound and outbound traffic, IFR and VFR, have been established also for noise abatement. Aircraft shall strictly adhere to assigned route and be operated in such a manner that unnecessary noise disturbances are not caused.

ESKN 2.22 FLYGPROCEDURER

1. Ankommande IFR-trafik inom Östgöta TMA och Skavsta CTR

Flygvägar
Se sid ESKN 4–13 till ESKN 4–22.

Väntlägen (Ref ENR 1.3 mom 9)
Väntlägen är upprättade enligt sid ESSP 4–1.

2. Avgående IFR-trafik inom Östgöta TMA och Skavsta CTR

Flygvägar
Se sid ESKN 4–5 till ESKN 4–11.

Om en inflygningsfyr (L) ingår i avgående klarering, skall fyren överflygas innan sväng påbörjas.

3. Startprocedurer, omnidirectional

FLIGHT PROCEDURES

1. Inbound IFR traffic within Östgöta TMA and Skavsta CTR

Routes
See pages ESKN 4–13 through ESKN 4–22.

Holdings (Ref ENR 1.3 para 9)
Holding patterns are established in accordance with page ESSP 4–1.

2. Outbound IFR traffic within Östgöta TMA and Skavsta CTR

Routes
See pages ESKN 4–5 through ESKN 4–11.

If a Locator is included in departure clearance the beacon is a fly-over point before a turn is initiated.

3. Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
08	Climb straight ahead to MNM turning ALT 600 ft. Continue climb to appropriate MSA.	Tree (CIO)	155	079°/3090
16	Climb straight ahead to MNM turning ALT 600 ft. Continue climb to appropriate MSA.	Tree (CIO) Antenna	199 276	167°/2250 169°/5820
26	Climb straight ahead to MNM turning ALT 600 ft. Continue climb to appropriate MSA.	Tree (CIO) Tree	202 247	258°/3620 267°/5750
34	Climb straight ahead to MNM turning ALT 600 ft. Continue climb to appropriate MSA.	Tree (CIO)	161	338°/2050

4. Avbrott i radioförbindelse

Luftfartyg skall följa de föreskrifter som anges i ENR 1.3 mom 10. Under IMC gäller dessutom för ankommande luftfartyg följande.

4.1 Ankommande klarering mottagen och kvitterad

Bibehåll senast tilldelade och kvitterade flyghöjd. Följ angiven flygväg till den gräns för klarering som anges i den ankommande klareringen. Fortsätt därifrån direkt till det följande hjälpmedel:

L PEO (bana 26) eller L NW (bana 08).

Om avbrott i radioförbindelse inträffar under *radarvektoring*: bibehåll senast tilldelad och kvitterad flyghöjd, dock ej lägre höjd än tillämplig lägsta sektorhöjd; flyg direkt till tillämpligt hjälpmedel, L PEO (bana 26) eller L NW (bana 08).

Efter ankomst över hjälpmedel (L PEO (bana 26) eller L NW (bana 08)) utför erforderlig nedgång i väntläge enligt sid ESSP 4–1. Utför därefter normal instrumentinflygning till gällande bana.

4. Communication failure

The communication failure procedures of ENR 1.3 para 10 shall be observed. In addition, in IMC an inbound aircraft shall apply the relevant procedures specified below.

4.1 Inbound clearance received and acknowledged

Maintain the level last received and acknowledged. Follow the specified route to the clearance limit specified in the inbound clearance. Then proceed direct to the facility mentioned below:

L PEO (runway 26) or L NW (runway 08).

In the event of communication failure during *radar vectoring*: maintain the level last received and acknowledged or the applicable minimum sector altitude whichever is higher; proceed direct to the relevant facility of L PEO (runway 26) or L NW (runway 08).

After arrival over the facility (L PEO (runway 26) or L NW (runway 08)) descent as required in the holding pattern specified on page ESSP 4–1. Then carry out a normal instrument approach to the runway-in-use.

ESNN 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT Type, LEN INTST	THR LGT Colour WBAR	VASIS (MEHT)	TDZ LGT LEN	RWY Centre Line LGT LEN, Spacing Colour INTST	RWY Edge LGT LEN, Spacing Colour INTST	RWY End LGT Colour WBAR	SWY LGT LEN, Colour
1	2	3	4	5	6	7	8	9
16	Barrette CL SALS 180 m LIL/LIH	Green	PAPI Left/3.25° (60.0 ft)	-	-	1954/60 m White Caution zone 600 m yellow LIL/LIH	Red	-
34	Calvert CAT I 900 m LIL/LIH	Green	PAPI Left/3.00° (57.4 ft)	-	-	1949/60 m White Caution zone 600 m yellow LIL/LIH	Red	-
10 Remarks: RWY 16: LED lights on APCH, RTHL, REDL, RENL and TRID. TRID FLG white. LIH. RWY 34: LED lights on RTHL, REDL and RENL.								

ESNN 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

- ABN/IBN location, characteristics and hours of operation -
- LDI location and LGT See ESNN 2-1
Anemometer location and LGT See ESNN 2-1
- TWY edge and centre line lighting Edge: TWY A, B, C, D
CL: -
LED lights on all TWY edge lights
LED lights on all RGL
- Secondary power supply/switch-over time Available/1 sec
- Remarks -

ESNN 2.16 HELICOPTER LANDING AREA

RWY 16/34 to be used

ESNN 2.17 ATS AIRSPACE

- Designation and lateral limits SUNDSVALL CTR 624157N 0172537E - 623327N 0173747E -
622009N 0174112E - 621802N 0172655E -
623032N 0171448E - 624007N 0171347E -
624157N 0172537E
- Vertical limits SUNDSVALL CTR 2500 ft AMSL
GND
- Airspace classification C
- ATS unit call sign SUNDSVALL TOWER
Language(s) Swedish/English
- Transition altitude 5000 ft AMSL
- Remarks CTR established during hours of TWR.

ESNN 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	SUNDSVALL TOWER	129.555	HO	Primary channel
		121.500	HO	-
		118.105	HX	By directive from TWR
ATIS	SUNDSVALL ATIS	127.405	HO	-

ESNN 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
LOC 16 ILS CAT I (7° E 2020)	NNN	108.70 MHz	HO	623100.8N 0172709.7E		380 m beyond THR 34 ILS Class 1/E/2
GP		330.50 MHz	HO	623200.4N 0172632.1E		Angle 3.25° RDH 50.0 ft 266 m past THR 16 left side. Horizontal coverage E RWY CL limited to 4°
LOC 34 ILS CAT I (7° E 2020)	SNN	110.30 MHz	HO	623237.4N 0172554.3E		995 m beyond THR 16 ILS Class 1/E/2
GP		335.00 MHz	HO	623123.6N 0172700.8E		Angle 3.0° RDH 50.9 ft 328 m past THR 34 right side
DVOR/DME (7° E 2020)	SUN	113.10 MHz	H24	623142.4N 0172655.4E	46 ft	DME channel 78X DVOR and DME on R-022 is approved to use from 22 NM and restricted due to low signal level between 30 NM and 22 NM.
DME	NNN	108.70 MHz	HO	623200.4N 0172632.5E	45 ft	Low signal in sector 10°-35° east of the extended CL below 5000 ft, 17 NM and beyond. 265 m past THR 16 left side. DME channel 24X
DME	SNN	110.30 MHz	HO	623123.6N 0172701.2E	39 ft	DME channel 40X

ESNN 2.20 LOKALA TRAFIKFÖRESKRIFTER

- Tillstånd för motorstart skall alltid inhämtas från TWR.
- När flygsäkerhet, trafiksituation och väderförhållanden så medger ska landningar som ankommer söderifrån ske på bana 34 och starter mot destinationer söderut ske på bana 16.
- Flygplan på uppställningsplats 2-6 eller 11-16 får inte utföra backning med egna motorer som ett standardförfarande. Detta är endast tillåtet om flygplatsen inte kan utföra push-back med bogserstäng eller TBL-traktor.

LOCAL TRAFFIC REGULATIONS

- Start-up clearance shall be obtained from TWR at all times
- When flight safety, traffic situation and weather conditions permit, landings arriving from the south must be performed on RWY 34 and take-offs for destinations to the south must be performed on RWY 16.
- Aircraft parked on stands 2-6 or 11-16 shall not perform power push-back as a standard procedure. This is only permitted if the aerodrome is unable to perform push-back by towing or TBL tractor.

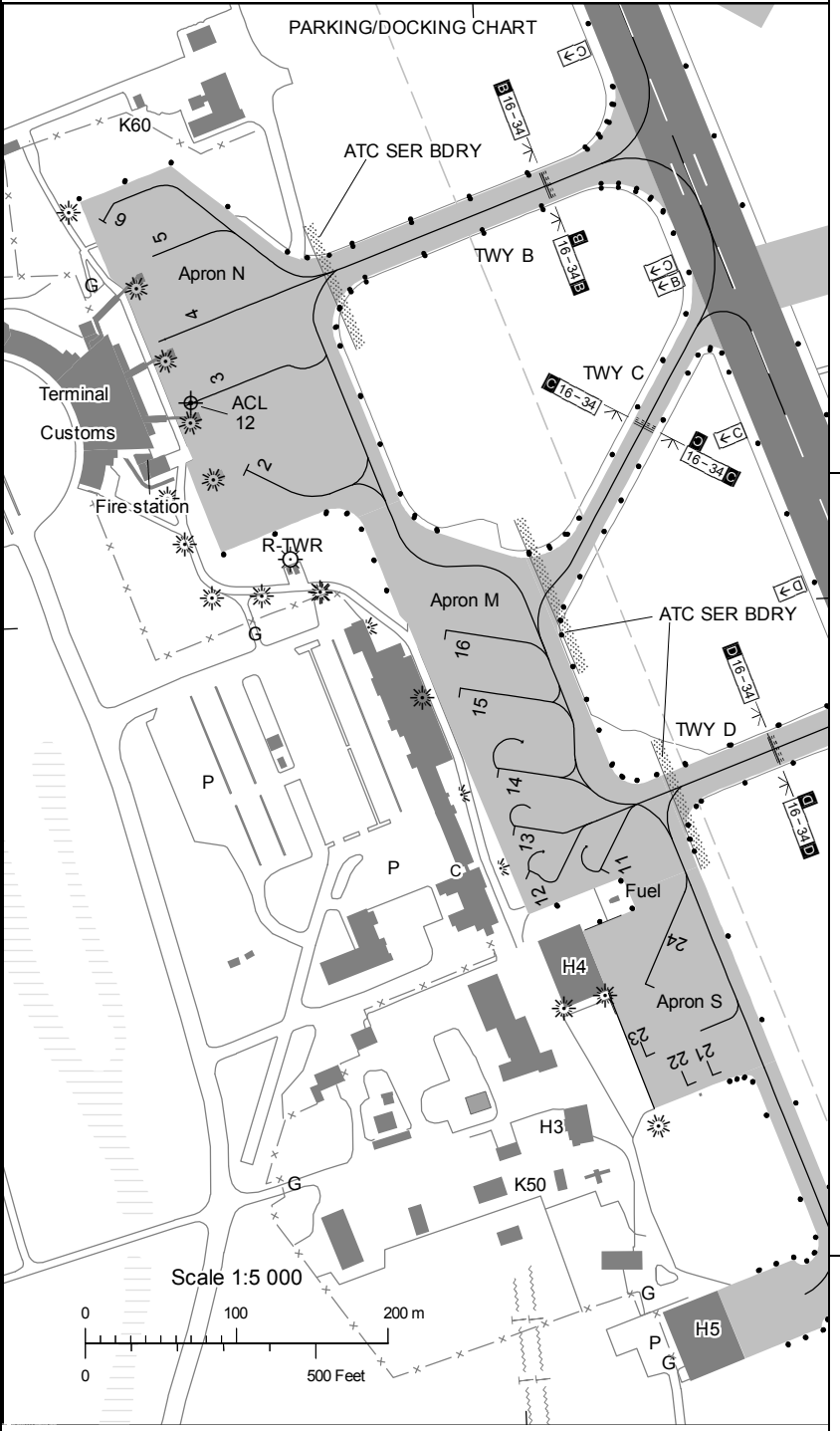
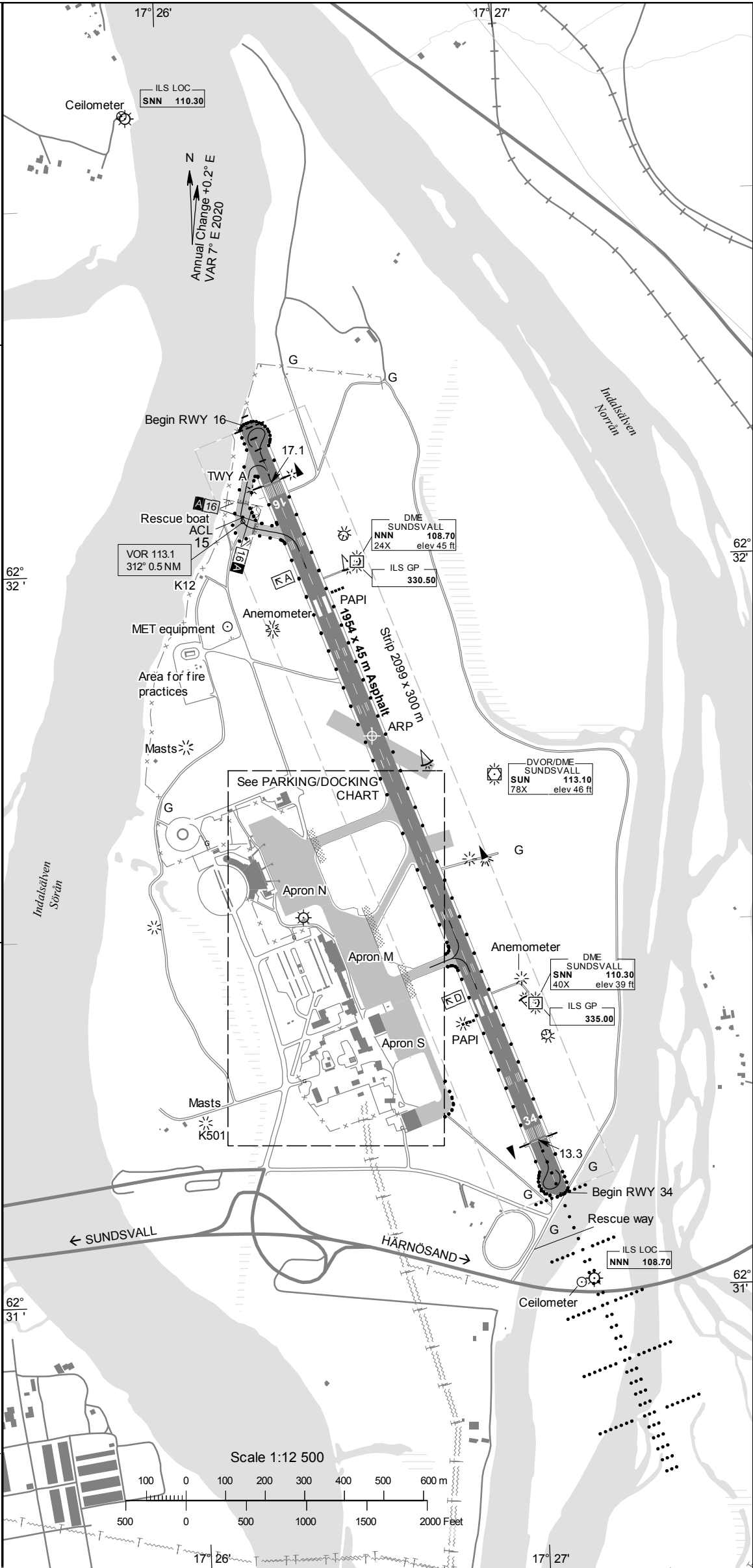
ARP 623146N 0172634E

AD ELEV 17 FEET

LEGEND See GEN 2.3

Dimensions in m, ELEV in ft

INS Coordinates for Aircraft Stands			
Apron Surface Bearing strength	NR	COORD	ELEV
M ASPH PCN 50 F/B/X/T			
N ASPH PCN 50 F/B/X/T			
S ASPH PCN 10 F/B/X/T			



CHANGE: Stands on apron S and M.

AIPAC AMDT 6/2024 28 NOV 2024

RWY NR	TRUE & MAG BRG	THR PSN Geoid undulation	Bearing strength	THR ELEV and highest ELEV of TDZ of precision APCH RWY	Declared distances				Approach and runway lighting				
					TORA	TODA	ASDA	LDA	APCH	THR TRID TDZ	VASIS (MEHT)	Edge	End
16	160.16° GEO 153° MAG	623207.12N 0172617.86E GUND 84.9 ft	PCN 50 F/B/X/T	THR 17.1 ft TDZ 17.1 ft	1954	1954	1954	1804	Barrette CL SALS 180 m LIL/LIH	THR Green TRID LIH	PAPI Left/3.25° (60.0 ft)	1954/60 m White Caution zone 600 m yellow LIL/LIH	Red
34	340.15° GEO 333° MAG	623112.31N 0172700.73E GUND 84.7 ft	PCN 50 F/B/X/T	THR 13.3 ft TDZ 13.3 ft	1949	1949	1949	1804	Calvert Cat 1 900 m LIL/LIH	THR Green	PAPI Left/3.00° (57.4 ft)	1949/60 m White Caution zone 600 m yellow LIL/LIH	Red

TWY NR	WIDTH	Surface Bearing Strength	Day marking		Taxiway lighting	
			Centerline Holding	Edge Centerline	RGL	Stopbar
A	23 m	ASPH PCN 50 F/B/X/T	CL HLDG	EDGE	RGL	RGL
B	18 m	ASPH PCN 50 F/B/X/T	CL HLDG	EDGE	RGL	RGL
C	15 m	ASPH PCN 50 F/B/X/T	CL HLDG	EDGE	RGL	RGL
D	23 m	ASPH PCN 50 F/B/X/T	CL HLDG	EDGE	RGL	RGL

REMARK: Begin RWY 16, 150 m in front of THR. Begin RWY 34, 144 m in front of THR.
Apron S, A-aircraft only. Apron M, pushback required from stand 15 for aircraft with dimensions equivalent to B737 and A320.

VISUAL APPROACH CHART - ICAO

1:250000



AD ELEV 1178 FEET

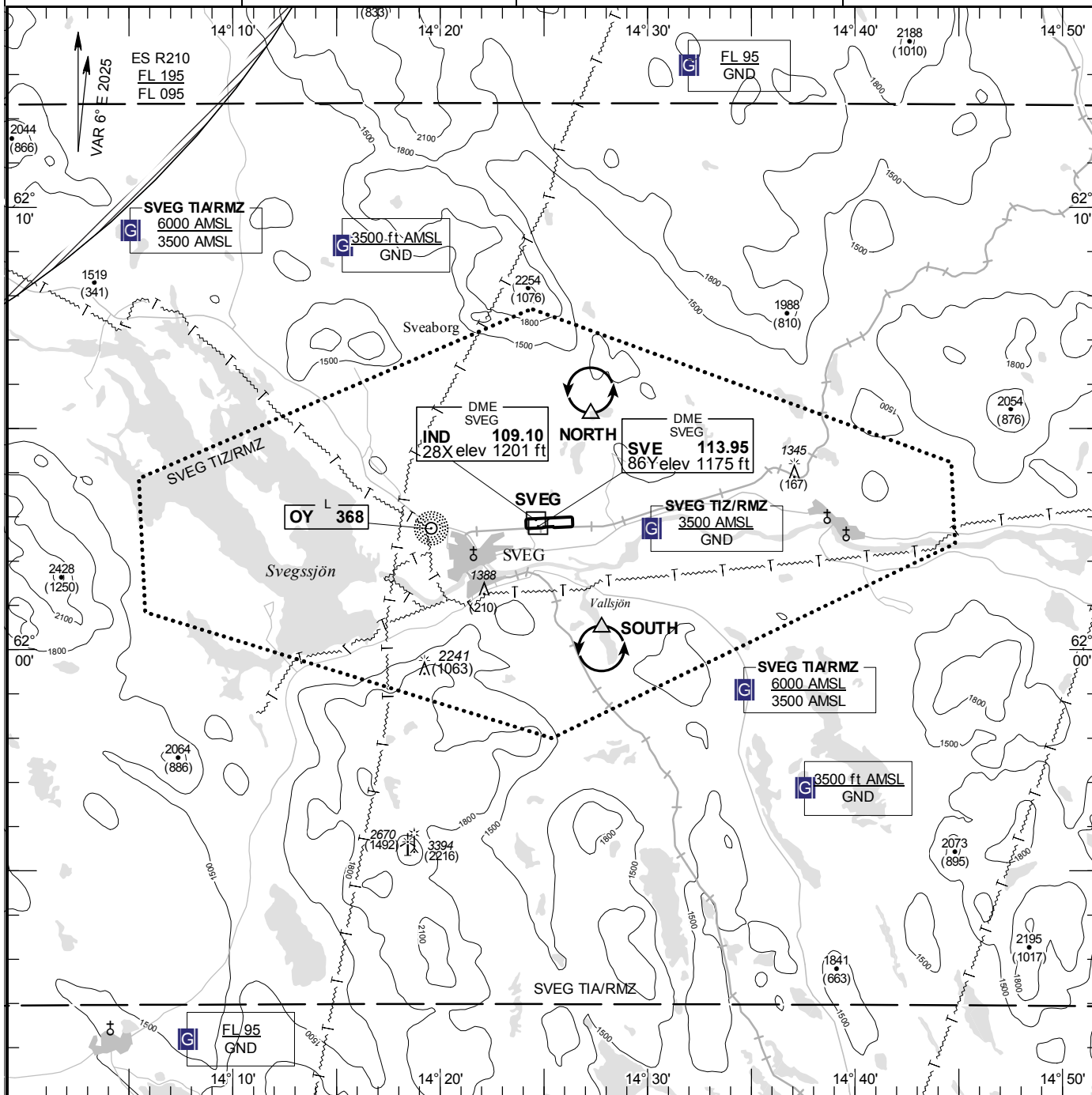
ELEV and ALT in ft
HGT in ft above AD ELEV

TA 6000 AMSL

SVEG INFORMATION 122.205

AD 2 ESND 6-1

SVEG SWEDEN



Communication failure

NIL

Remark/Warning

NIL

RWY NR	THR ELEV	PAPI (MEHT)
09	1172.7 ft	Left/3.00° (50 ft)
27	1177 ft	Left/3.00° (50 ft)

Legend
See GEN 2.3

Entry / exit point

NIL

Holding

NORTH: Hold over Western shoreline of Nordsjön, north of point 620519N 0142715E
SOUTH: Hold over south part of lake Valsjön, south of point 620029N 0142746E

AD 2 AERODROMES

ESNU 2.1 AERODROME LOCATION INDICATOR AND NAME

ESNU – UMEÅ

ESNU 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

- | | |
|---|--|
| 1. ARP coordinates and site at AD | 634735N 0201648E BRG 138.5° GEO 800 m from THR 14 |
| 2. Direction and distance from (city) | S 2.5 NM from Umeå |
| 3. Elevation/Reference temperature | 25 ft/+22.6°C |
| 4. Geoid undulation at AD ELEV PSN | 72 ft |
| 5. MAG VAR/Annual change | 8° E 2020/+0.2 increasing |
| 6. Administration, address, telephone, fax, AFS | Swedavia AB
Umeå Airport
SE-904 22 Umeå
TEL: +46 (0)10 109 50 00
E-mail: ume.groundhandling@swedavia.se
AFS: ESNUZTX
Website: www.swedavia.se/umea |
| 7. Types of traffic permitted (IFR/VFR) | IFR/VFR. Max RWY ref code 4C |
| 8. Remarks | PPR outside AD Operating hours. Request shall be made during hours of AD Administration. TEL +46 (0)10 109 50 24. |

ESNU 2.3 OPERATIONAL HOURS

- | | |
|--|---|
| 1. AD Administration
AD Operating hours | MON-FRI 0700-1500 (0600-1400)
Ref. AIP SUP/NOTAM |
| 2. Customs and immigration | O/R TEL +46(0)8 456 66 20, kcgn.op.samord@tullverket.se |
| 3. Health and sanitation | As AD operating hours, Designated quarantine AD |
| 4. AIS Briefing Office | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 5. ATS Reporting Office (ARO) | As ATS |
| 6. MET Briefing Office | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 7. ATS | H24 |
| 8. Fuelling | H24, +46 (0)70 598 61 43 |
| 9. Handling | As AD Operating hours |
| 10. Security | As AD Operating hours |
| 11. De-Icing | As AD Operating hours |
| 12. Remarks | Request shall be made on TEL +46 (0)10 109 50 24. Increased charges outside AD Operating hours. |

ESNU 2.4 HANDLING SERVICES AND FACILITIES

1.	Cargo-handling facilities	O/R
2.	Fuel/oil types	Fuel Jet A1, 100LL Oil -
3.	Fuelling facilities/discharge capacity	Jet A1: 2 trucks, 35,000 l and 20,000 l/700 l/min. 100LL: Stationary
4.	De-icing facilities	Available, Type I and II, mobile unit
5.	Hangar space for visiting ACFT	Limited
6.	Repair facilities for visiting ACFT	Limited
7.	Remarks	Fuel Supplier AIR BP, Payment by BP Card or Fuel Request to Air BP Out of hours, TEL: +97 150 453 6032, E-mail: airbpoutofhours@bp.com

ESNU 2.5 PASSENGER FACILITIES

1.	Hotels	In Umeå
2.	Restaurants	At AD
3.	Transportation	Buses, taxis, rental cars
4.	Medical facilities	In Umeå
5.	Bank and Post Office	In Umeå
6.	Tourist Office	In Umeå
7.	Remarks	-

ESNU 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	CAT 7 for SKED TFC, other O/R
2.	Rescue equipment	Rescue boat
3.	Capability for removal of disabled aircraft	By arrangement. On-the-scene commander during AD Operating hours. TEL: +46 (0)10 109 50 15.
4.	Remarks	PPR for all non-SKED TFC. Request shall be made on TEL +46 (0)10 109 50 24.

ESNU 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	Snowploughs, blowers, sweepers, slingers
2.	Clearance priorities	RWY, TWY, Apron
3.	Remarks	RWY de-iced/anti-iced with KFOR/UREA/SAND TWY de-iced/anti-iced with KFOR/UREA/SAND Apron de-iced/anti-iced with KFOR/UREA/SAND

ESNU 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	Apron surface and strength	Cargo Apron ASPH PCN 17 F/B/X/T Terminal Apron ASPH PCN 45 F/B/X/T Apron surrounding stand 1 PCN 11 F/B/XT
2.	Taxiway width, surface and strength	TWY B 18 m ASPH PCN 22 F/B/X/T TWY C 23 m ASPH PCN 45 F/B/X/T TWY D 8 m ASPH PCN 11 F/B/X/T Available to light aircraft only
3.	ACL, location and elevation	-
4.	VOR checkpoints	See ESNU 2-1
5.	INS checkpoints	See ESNU 2-1
6.	Remarks	-

ESNU 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of ACFT stands	Taxi guide lines and signs. Marshalling available.
2.	RWY and TWY markings and LGT	RWY 14/32: Designator, THR, TDZ, CL and edges are day marked. RTHL, REDL, RENL. TWY B: CL, HLDG day marked. Edge lights, RGL C: CL, HLDG day marked. Edge lights, RGL D: CL, HLDG day marked. Edge lights, RGL
3.	Stop bars	-
4.	Remarks	-

ESNU 2.10 AERODROME OBSTACLES

In Area 2					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT in feet	Markings/ Type, colour	Remarks
a	b	c	d	e	f
ESNU1	Antenna	634651.9N 0201806.6E	28 / -	-	-
ESNU2	Forest	634656.0N 0201817.4E	38 / -	-	-
ESNU3	Forest	634632.9N 0201839.6E	71 / -	-	-
ESNU4	Forest	634637.4N 0201851.7E	72 / -	-	-
ESNU5	Forest	634635.4N 0201855.8E	77 / -	-	-
ESNU6	Forest	634633.3N 0201853.0E	83 / -	-	-
ESNU7	Forest	634616.4N 0201959.7E	165 / -	-	-
ESNU8	Forest	634616.3N 0201959.8E	167 / -	-	-
ESNU9	Forest	634552.6N 0202055.5E	207 / -	-	-
ESNU10	Building	634801.8N 0201604.8E	34 / -	-	-
ESNU11	Forest	634805.1N 0201556.1E	47 / -	-	-
ESNU12	Forest	634805.0N 0201555.4E	49 / -	-	-
ESNU13	Forest	634805.4N 0201553.5E	50 / -	-	-
ESNU14	Forest	634809.1N 0201548.1E	59 / -	-	-
ESNU15	Forest	634805.7N 0201536.1E	67 / -	-	-
ESNU16	Forest	634805.7N 0201535.2E	78 / -	-	-
ESNU17	Forest	634814.5N 0201539.0E	88 / -	-	-
ESNU18	Forest	634815.0N 0201536.2E	95 / -	-	-
ESNU19	Forest	634815.9N 0201536.1E	97 / -	-	-

In Area 3					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
Not available					

ESNU 2.11 METEOROLOGICAL INFORMATION PROVIDED

- | | | |
|-----|--|--|
| 1. | Associated MET Office | STOCKHOLM/Arlanda |
| 2. | Hours of service
MET Office outside hours | H24 |
| 3. | Office responsible for TAF preparation
Periods of validity | STOCKHOLM/Arlanda
9 HR, https://tafplanner.smhi.se/app.php/production-program |
| 4. | Type of landing forecast
Interval of issuance | Not issued |
| 5. | Briefing/consultation provided | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 6. | Flight documentation
Language(s) used | TAF, METAR, SIGMET, Upper air winds
Swedish/English |
| 7. | Charts and other information available for
briefing or consultation | SWC, WC, Nordic SIGWX Chart, Low level forecast |
| 8. | Supplementary equipment available for
providing information | - |
| 9. | ATS units provided with information | UMEÅ TWR |
| 10. | Additional information (limitation of service,
etc.) | Flight planning room not available |

ESNU 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	True BRG and MAG BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APCH RWY
1	2	3	4	5	6
14	138.45° GEO 130° MAG	2302 x 45	PCN 70 F/B/X/T ASPH	634754.75N 0201609.49E End RWY: 634659.10N 0201800.96E GUND 72.3 ft	THR 25.2 ft TDZ 25 ft
32	318.48° GEO 310° MAG	2302 x 45	PCN 70 F/B/X/T ASPH	634700.55N 0201758.05E GUND 71.8 ft	THR 17.3 ft TDZ 17 ft

Designations RWY NR	Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	RESA dimensions (m)
1	7	8	9	10	11
14	See ESNU AOC	-	-	2422 x 280	90 x 90
32	See ESNU AOC	-	-	2422 x 280	90 x 90

Designations RWY NR	Location/ description of arresting system	OFZ (Yes/No)	Remarks
1	12	13	14
14	-	No	-
32	-	No	THR 32 displaced 60 m

ESNU 2.13 DECLARED DISTANCES

RWY	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
14	2302	2302	2302	2302	-
32	2302	2302	2302	2242	-

DECLARED DISTANCES TAKE-OFF INTERSECTIONS

RWY	INTERSECTION	TORA (m)	TODA (m)	ASDA (m)	Remarks
1	2	3	4	5	6
14	TWY B	1721	1721	1721	-
32	TWY D	1599	1599	1599	-

ESNU 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT Type, LEN INTST	THR LGT Colour WBAR	VASIS (MEHT)	TDZ LGT LEN	RWY Centre Line LGT LEN, Spacing Colour INTST	RWY Edge LGT LEN, Spacing Colour INTST	RWY End LGT Colour WBAR	SWY LGT LEN, Colour
1	2	3	4	5	6	7	8	9
14	Barrette CL CAT I 870 m LIH	Green	PAPI Left/3.00° (61.4 ft)	-	-	2302/50 m White Caution zone 600 m yellow LIH	Red WBAR	-
32	Barrette CL CAT I 420 m LIH	Green WBAR	PAPI Left/3.00° (55.4 ft)	-	-	60/50 m Red 2242/50 m White Caution zone 600 m yellow LIH	Red	-

10 Remarks: RWY 14: LED lights on RTHL, REDL, RENL and APCH.
RWY 32: LED lights on RTHL, REDL, RENL and APCH.

ESNU 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

- ABN/IBN location, characteristics and hours of operation -
- LDI location and LGT
Anemometer location and LGT
Unlighted windsocks at RWY ends. Lighted
At aiming points, unlighted.
- TWY edge and centre line lighting
Edge: TWY B, C, D
CL: -
LED lights on TWY edge lights
LED lights on RGL
- Secondary power supply/switch-over time Available/Less than 1 sec
- Remarks -

ESNU 2.16 HELICOPTER LANDING AREA

FATO established on TWY B. Approach- and departure parallel to RWY 14/32.
 FATO for daylight and VMC operations. During IMC or darkness RWY 14/32 to be used.
 Air-taxiing to parking by directive from TWR.
 TLOF lighting by Flood flight.

ESNU 2.17 ATS AIRSPACE

1.	Designation and lateral limits	UMEÅ CTR	635733N 0200327E - 635126N 0202555E - 634057N 0204121E - 633712N 0203257E - 634014N 0201327E - 634620N 0195913E - 635301N 0195354E - 635733N 0200327E
2.	Vertical limits	UMEÅ CTR	2000 ft AMSL GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	UMEÅ TOWER Swedish/English	
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	CTR established during hours of TWR.	

ESNU 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	UMEÅ TOWER	119.805	HO	Primary channel
		121.500	HO	-
		118.080	HO	By directive from TWR
	UMEÅ DE-ICING	121.775	HO	-

ESNU 2.19 RADIO NAVIGATION AND LANDING AIDS

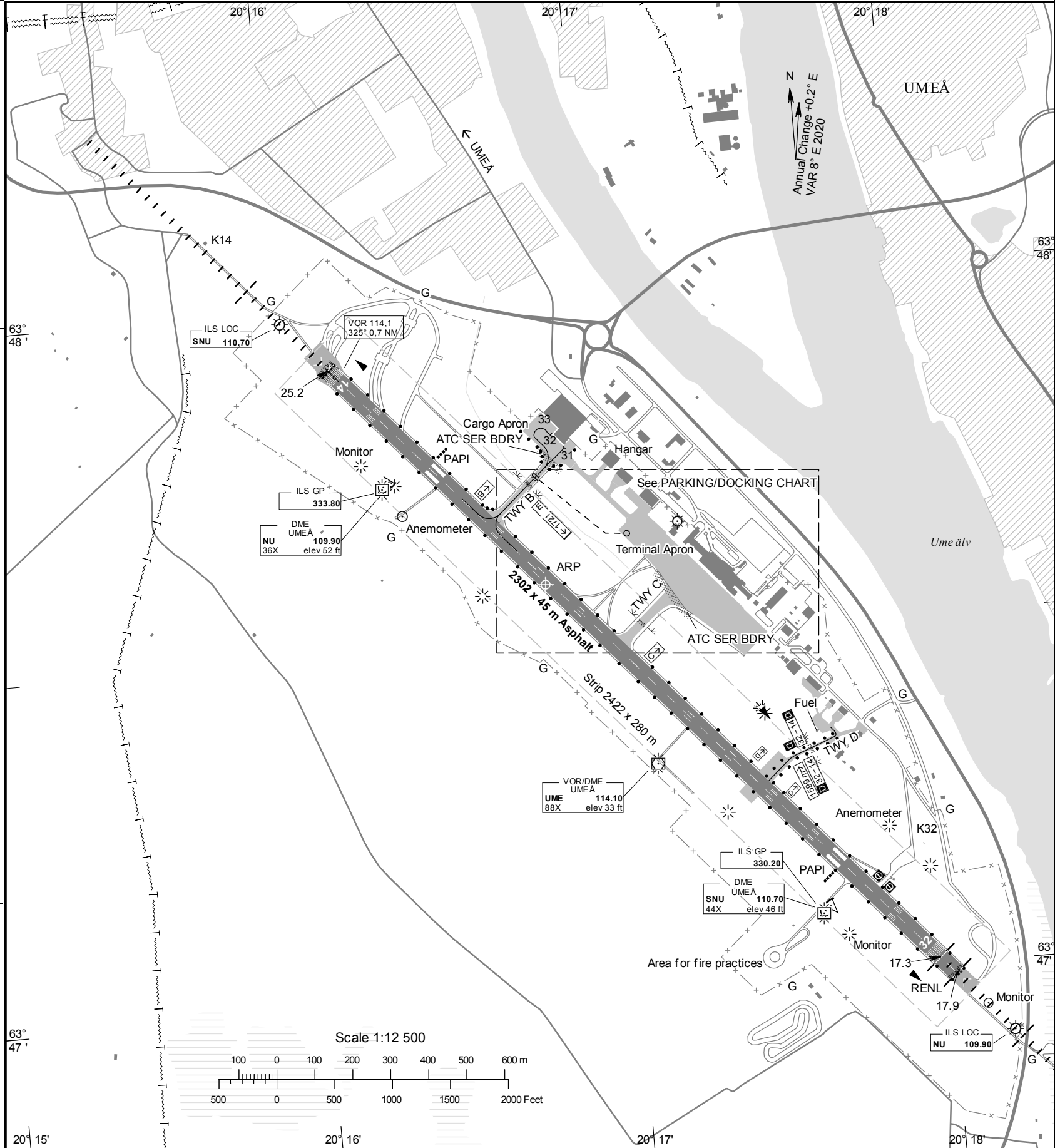
Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
LOC 14 ILS CAT I (8° E 2020)	NU	109.90 MHz	HO	634653.9N 0201811.3E		214 m beyond END RWY 14 LOC Class I/E/2
GP		333.80 MHz	HO	634744.4N 0201618.3E		Angle 3.0° RDH 56.0 ft 319 m past THR 14 right side During winter angle may vary BTN 3.0° and 3.25° due snow. GP Class I/C/2
LOC 32 ILS CAT I (8° E 2020)	SNU	110.70 MHz	HO	634759.0N 0201601.0E		176 m beyond THR 14 LOC Class I/E/2
GP		330.20 MHz	HO	634705.3N 0201736.6E		Angle 3.0° RDH 53.8 ft 305 m past THR 32 left side During winter angle may vary BTN 3.0° and 3.25° due snow. GP Class I/C/2
L 32	WU	329 kHz	H24	634325.8N 0202456.5E		Range 15 NM
NDB	VNA	364 kHz	H24	634957.6N 0195052.7E		Range 30 NM Reduced range during certain conditions. When not received inform ATS.
VOR/DME (8° E 2020)	UME	114.10 MHz	H24	634719.0N 0201706.8E	33 ft	DME channel 88X
DME	NU	109.90 MHz	H24	634744.3N 0201618.1E	52 ft	DME channel 36X
DME	SNU	110.70 MHz	H24	634705.2N 0201736.4E	46 ft	DME channel 44X

ESNU 2.20 LOKALA TRAFIKFÖRESKRIFTER

LOCAL TRAFFIC REGULATIONS

- | | |
|---|--|
| 1. Dagligen mellan 2100–0600 (2000–0500) får flygplatsen inte trafikeras av flygplan certifierade enligt ICAO Annex 16, Volume I, Part II, Chapter 2. | 1. Daily between 2100–0600 (2000–0500) the aerodrome must not be used by aircraft certificated in accordance with ICAO Annex 16, Volume I, Part II, Chapter 2. |
| 2. Start-up och klarering för IFR-trafik skall begäras från ATC på kanal 119.805. Begäran kan ske tidigast 30 min före EOBT. | 2. Start-up and clearance for IFR-traffic shall be requested from ATC on channel 119.805. For IFR-traffic shall request not be made earlier than 30 min before EOBT. |
| 3. Under tiden 2100–0600 (2000–0500) är start bana 32 och landning bana 14 ej tillåten om inte annat krävs av flygsäkerhetsskäl. | 3. During the hours 2100–0600 (2000–0500) take-off RWY 32 and landing RWY 14 not permitted unless otherwise required by flight safety reasons. |
| 4. Mellan 2100–0600 (2000–0500) bör reversering undvikas. | 4. During the hours 2100–0600 (2000–0500) engine reverse should be avoided. |
| 5. Föreskrifter för markrörelser
Minsta möjliga motoreffekt skall användas vid taxning på plattan. Uppsyn på passagerare på plattan före taxning påbörjas. | 5. Ground movement procedures
Engines shall be operated at minimum power required when taxiing on apron. Caution advised when turning around on apron. Watch out for passengers on apron. |

LFV
CHANGE: Editorial



ARP 634735N 0201648E
AD ELEV 25 FEET
LEGEND See GEN 2.3
Dimensions in m, ELEV in ft

REMARKS
Threshold RWY 32 permanently displaced 60 m for landing
TWY D available to light aircraft only

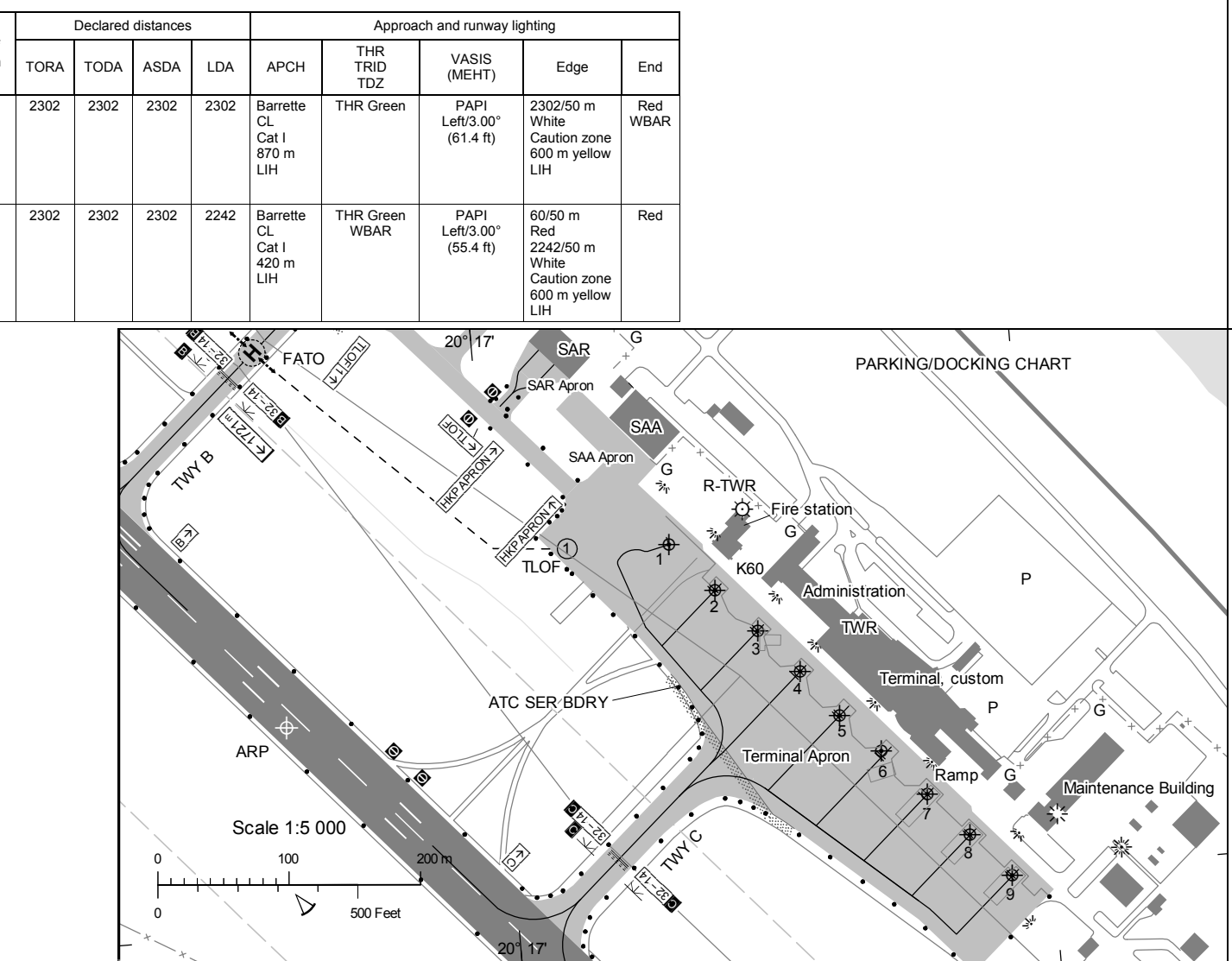
AIP SWEDEN

TWR 119.805

RWY NR	TRUE & MAG BRG	THR PSN Geoid undulation END PSN	Bearing strength	THR ELEV and highest ELEV of TDZ of precision APCH RWY	Declared distances				Approach and runway lighting				
					TORA	TODA	ASDA	LDA	APCH	THR TRID TDZ	VASIS (MEHT)	Edge	End
14	138.45° GEO 130° MAG	634754.75N 0201609.49E GUND 72.3 ft	PCN 70 F/B/X/T	THR 25.2 ft TDZ 25 ft	2302	2302	2302	2302	Barrette CL Cat I 870 m LIH	THR Green	PAPI Left/3.00° (61.4 ft)	2302/50 m White Caution zone 600 m yellow LIH	Red WBAR
32	318.48° GEO 310° MAG	634700.55N 0201758.05E GUND 71.8 ft	PCN 70 F/B/X/T	THR 17.3 ft TDZ 17 ft	2302	2302	2302	2242	Barrette CL Cat I 420 m LIH	THR Green WBAR	PAPI Left/3.00° (55.4 ft)	60/50 m Red 2242/50 m White Caution zone 600 m yellow LIH	Red

TWY NR	Width	Surface Bearing strength	Day marking		Taxiway lighting	
			Centerline Holding	Edge Centerline	RGL Stopbar	RGL
B	18 m	ASPH PCN 22 F/B/X/T	CL HLDG	EDGE	RGL	RGL
C	23 m	ASPH PCN 45 F/B/X/T	CL HLDG	EDGE	RGL	RGL
D	8 m	ASPH PCN 11 F/B/X/T	CL HLDG	EDGE	RGL	RGL

INS Coordinates for Aircraft Stands			
APRON Surface Bearing strength	NR	COORD	ELEV
Terminal Apron ASPH PCN 45 F/B/X/T (Apron surrounding stand 1 PCN 11 F/B/X/T)	1	634738.73N 0201710.09E	19
	2	634737.52N 0201712.46E	19
	3	634736.43N 0201714.64E	19
	4	634735.34N 0201716.82E	18
	5	634734.18N 0201718.81E	18
	6	634733.24N 0201720.96E	17
	7	634732.07N 0201723.33E	16
	8	634730.99N 0201725.51E	16
	9	634729.90N 0201727.69E	16
Cargo Apron ASPH PCN 17 F/B/X/T			



AERODROME CHART - ICAO

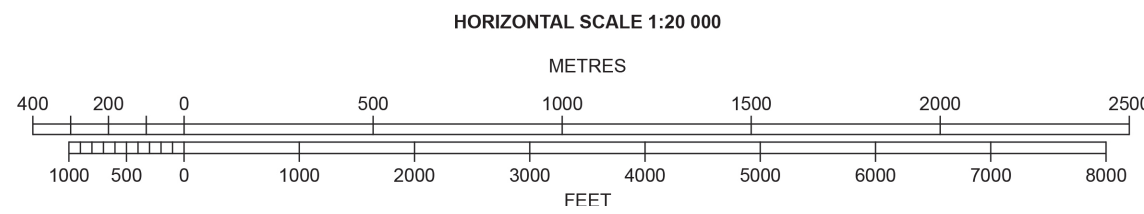
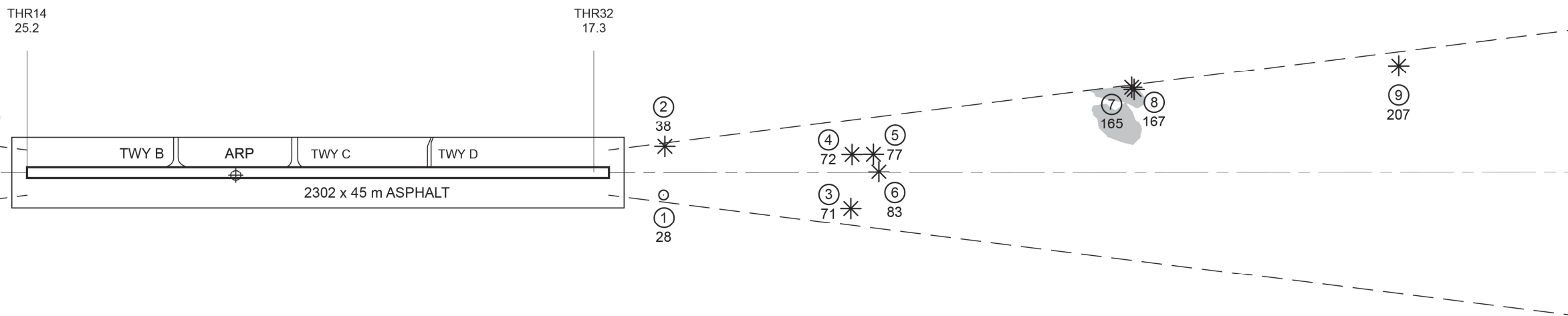
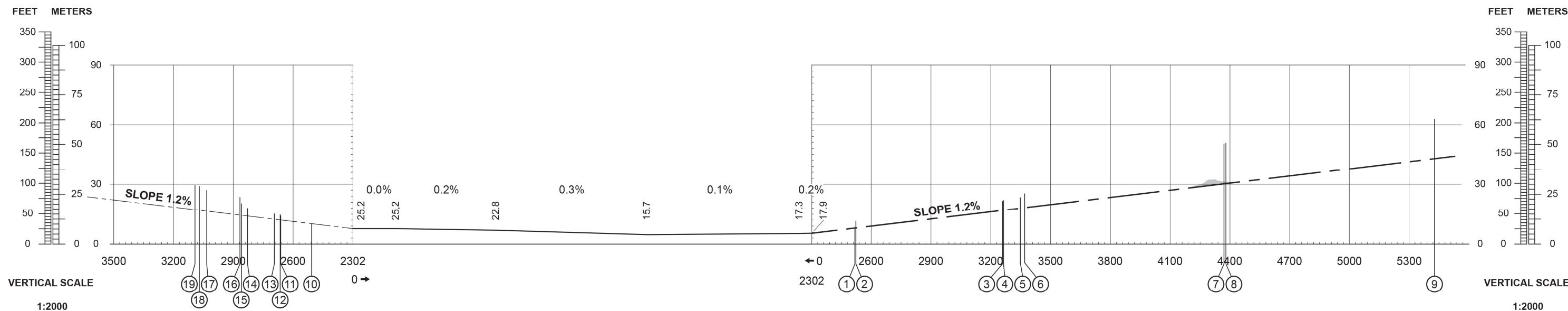
AD 2 ESNL 2-1
UMEÅ

AIRAC AMDT 6/2024 28 NOV 2024

AERODROME ELEVATION 25 FEET
MAGNETIC VARIATION 8° E 2020

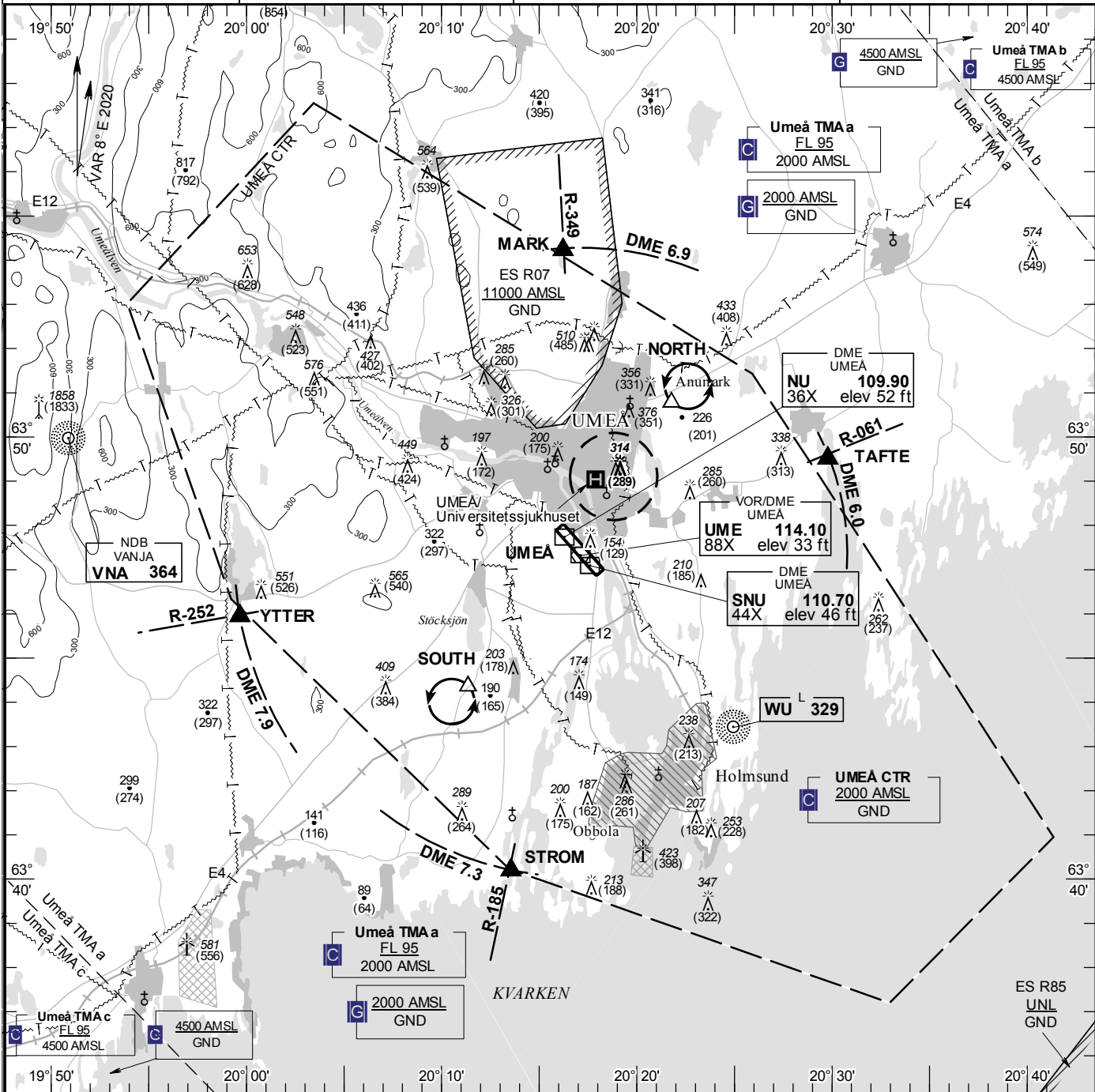
RUNWAY BEARINGS
14 = GEO 138.46°; MAG 130°
31 = GEO 318.48°; MAG 310°

RWY 14	DECLARED DISTANCES	RWY 32
2302	TAKE-OFF RUN AVAILABLE	2302
2302	TAKE-OFF DISTANCE AVAILABLE	2302
2302	ACCELERATE STOP DIST. AVAILABLE	2302
2302	LANDING DISTANCE AVAILABLE	2242



ORDER OF ACCURACY
HORIZONTAL 5 m
VERTICAL 1 ft

LEGEND	
IDENTIFICATION NUMBER	①
POLE, TOWER, SPIRE, ANTENNA, ETC.	○
TREE OR SHRUB	✱
BUILDING OR LARGE STRUCTURE	□



Communication failure

- 1 SQUAWK 7600
- 2 Enter CTR via STROM – Holding SOUTH or via TAFTE – Holding NORTH at or below 1500 ft AMSL to traffic circuit. Transmit blind your intentions.
- 3 Flash LDG-lights and watch for optical signals from signalling lamp from the camera installation placed on top of the remote tower (position marked R-TWR on AD Chart).

RWY NR	THR ELEV	PAPI (MEHT)
14	25.2 ft	Left/3.00° (61 ft)
32	17.3 ft	Left/3.00° (55 ft)

Entry / exit point

MARK	635413N 0201613E
TAFTE	634930N 0202947E
STROM	634011N 0201333E
YTTER	634556N 0195940E

Legend
See GEN 2.3

Holding

- NORTH:** Hold north of Anumark village, north east of point 635045N 0202147E
- SOUTH:** Hold over motocross track south of lake Stöcksjön, south west of point 634420N 0201121E

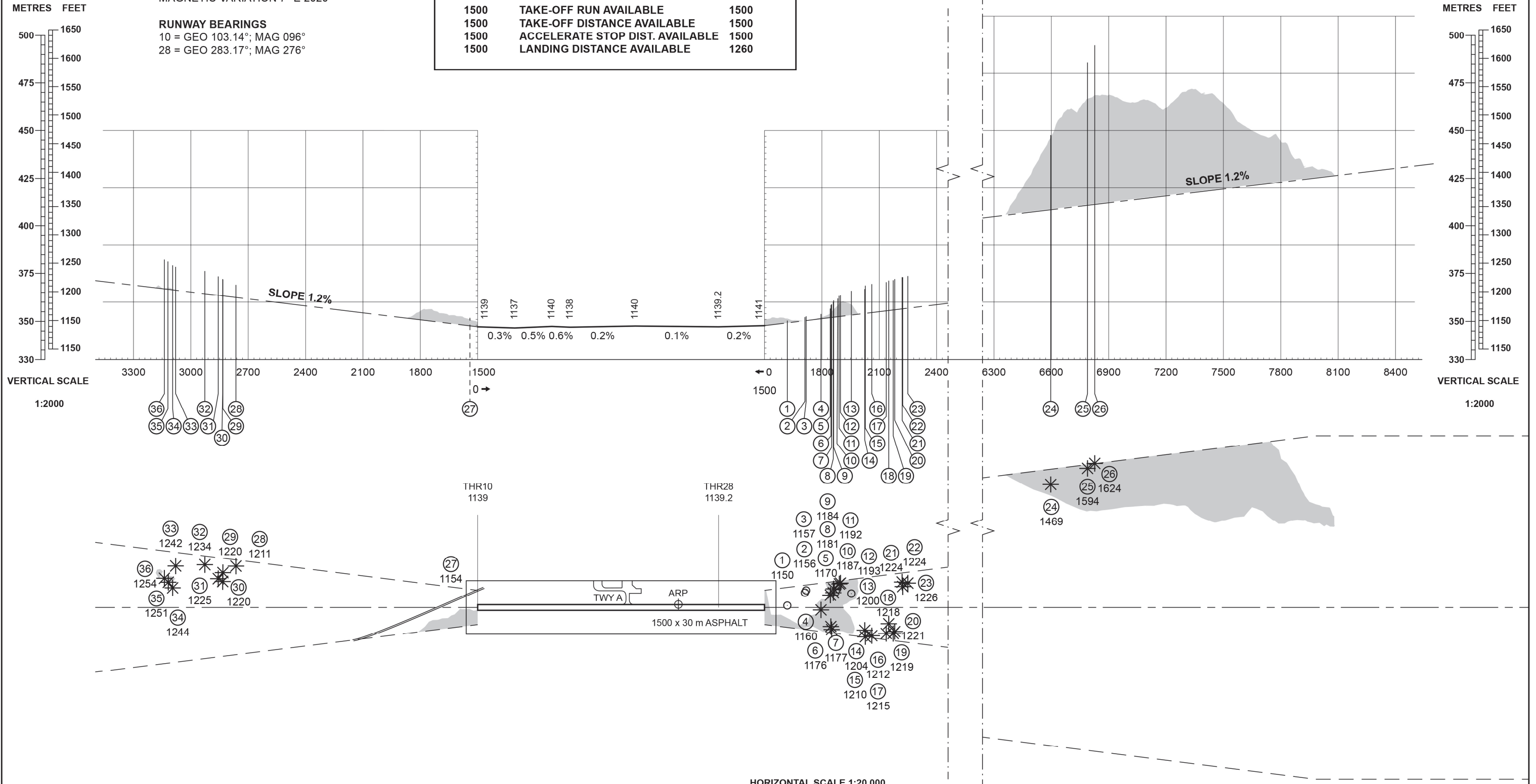
Remark

Noise sensitive area should be avoided below 2500 ft AMSL

AERODROME ELEVATION 1141 FEET
MAGNETIC VARIATION 7° E 2020

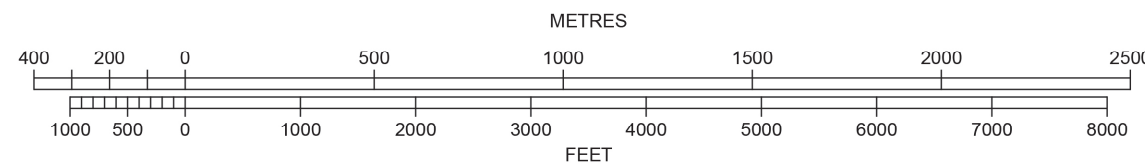
RUNWAY BEARINGS
10 = GEO 103.14°; MAG 096°
28 = GEO 283.17°; MAG 276°

RWY 10	DECLARED DISTANCES	RWY 28
1500	TAKE-OFF RUN AVAILABLE	1500
1500	TAKE-OFF DISTANCE AVAILABLE	1500
1500	ACCELERATE STOP DIST. AVAILABLE	1500
1500	LANDING DISTANCE AVAILABLE	1260



LEGEND

IDENTIFICATION NUMBER	①
POLE, TOWER, SPIRE, ANTENNA, ETC.	○
TREE OR SHRUB	*
ROAD TRAFFIC IN PROFILE	- - -
TERRAIN PENETRATING OBSTACLE PLANE	▬



ORDER OF ACCURACY
HORIZONTAL 5 m
VERTICAL 1 ft

AD 2 AERODROMES

ESSV 2.1 AERODROME LOCATION INDICATOR AND NAME

ESSV – VISBY

ESSV 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

- | | | |
|----|--|--|
| 1. | ARP coordinates and site at AD | 573946N 0182046E 021° GEO 1000 m from THR 03 |
| 2. | Direction and distance from (city) | NE 2 NM from Visby |
| 3. | Elevation/Reference temperature | 164 ft/+24.0°C |
| 4. | Geoid undulation at AD ELEV PSN | 82 ft |
| 5. | MAG VAR/Annual change | 6° E 2020/+0.2 increasing |
| 6. | Administration, address, telephone, fax, AFS | Swedavia AB
Visby Airport
SE-621 41 Visby
TEL: +46 (0)10 109 52 00
FAX: +46 (0)10 109 52 45
E-mail: info@visbyairport.se
AFS: ESSVZTZX
Website: www.swedavia.se/visby
www.swedavia.net/visby |
| 7. | Types of traffic permitted (IFR/VFR) | IFR/VFR. Max RWY ref code 03/21 4C, 10/28 2B |
| 8. | Remarks | PPR outside AD Operating hours. Request shall be made to vby.ado@swedavia.se. |

ESSV 2.3 OPERATIONAL HOURS

- | | | |
|-----|---|--|
| 1. | AD Administration
AD Operating hours | MON-FRI 0700-1500 (0600-1400)
Ref AIP SUP/NOTAM |
| 2. | Customs and immigration | O/R. Customs +46 (0)8 456 66 20. Immigration +46 (0)10 569 29 09. |
| 3. | Health and sanitation | - |
| 4. | AIS Briefing Office | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 5. | ATS Reporting Office (ARO) | As ATS |
| 6. | MET Briefing Office | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc |
| 7. | ATS | TWR opens 30 min prior AD Operating hours. Closes as AD Operating hours. |
| 8. | Fuelling | As AD Operating hours |
| 9. | Handling | O/R, e-mail: vby.groundhandling@swedavia.se |
| 10. | Security | As AD Operating hours |
| 11. | De-Icing | As AD Operating hours |
| 12. | Remarks | Increased charges outside AD Operating hours. Frequent extension of operational hours. |

ESSV 2.4 HANDLING SERVICES AND FACILITIES

1.	Cargo-handling facilities	-
2.	Fuel/oil types	Fuel Jet A1, 91/96UL Oil -
3.	Fuelling facilities/discharge capacity	Jet A1: 30,000 l in fuel truck, 150,000 l in store 91/96UL: 20,000 l
4.	De-icing facilities	Type I and II. Available OCT-APR. MAY-SEP on request.
5.	Hangar space for visiting ACFT	-
6.	Repair facilities for visiting ACFT	-
7.	Remarks	Fuel supplier Jet A1 Shell, 91/96UL Hjelmcö. For payment of fuel only credit cards accepted. 91/96UL only available during daylight.

ESSV 2.5 PASSENGER FACILITIES

1.	Hotels	In Visby
2.	Restaurants	At AD (terminal building Apron A)
3.	Transportation	Taxis, rental cars, buses (terminal building Apron A)
4.	Medical facilities	In Visby
5.	Bank and Post Office	In Visby
6.	Tourist Office	In Visby
7.	Remarks	-

ESSV 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	CAT 6. Other O/R.
2.	Rescue equipment	By arrangement, municipal rescue service
3.	Capability for removal of disabled aircraft	Limited capability. Could be arranged on request. On-the-scene commander during AD Operating hours +46(0)10 109 52 12.
4.	Remarks	-

ESSV 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	Snowploughs, blowers, sweepers
2.	Clearance priorities	RWY 03/21, TWY A, Apron A
3.	Remarks	RWY 03/21 de-iced/anti-iced with UREA/SAND

ESSV 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
LOC 21 ILS CAT I (6° E 2020)	SV	109.15 MHz	H24	573850.0N 0182006.2E		858 m beyond THR 03 LOC Class I/E/2
GP		331.25 MHz	H24	574005.1N 0182107.7E		Angle 3.0° RDH 57.1 ft 323 m past THR 21 left side GP Class I/C/2
VOR/DME (6° E 2020)	VSB	115.10 MHz	H24	573934.3N 0182048.7E	154 ft	350 m S ARP DME channel 98X
DME	SV	109.15 MHz	H24	574005.0N 0182108.1E	162 ft	323 m past THR 21 left side DME channel 28Y

ESSV 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. Tillgänglighet

RWY 10/28 och TWY G är tillgängliga perioden MAJ–SEP. Under annan tid skall information om banförhållanden inhämtas från ATS för färdplanering.

2. Start-up och klarering för IFR-trafik

Start-up och klarering skall begäras på kanal 120.305 tidigast 30 MIN före EOBT.

3. Start-up och klarering för VFR-trafik

Start-up och klarering skall begäras innan taxning från platta B.

4. Skol- och övningsflygning

För skol- och övningsflygning krävs tillstånd. Tillstånd lämnas av ATS TEL 0498 26 31 42.

5. Fallskärmschoppning

För fallskärmschoppning krävs tillstånd. Tillstånd lämnas av ATS. Landningsområde för fallskärm – se AD2 ESSV 2-1.

6. Parkering platta A

Förhandstillstånd erfordras (PPR) för flyg som ej opererar i linjetrafik för parkering på platta A, ambulansflyg undantagna. Maximal parkeringstid är 60 minuter om inget annat avtalats. Förfrågan skickas till vby.ado@swedavia.se eller TEL 010 109 52 20.

7. Föreskrifter för markrörelser

Minsta möjliga motoreffekt ska användas vid taxning på platta A och B. Försiktighet ska vidtas när man svänger runt på platta A och B. Se upp för passagerare på plattorna. Överstyrning krävs vid taxning från/till södra TWY M från/till platta A uppställningsplats 1, 2 och 3.

LOCAL TRAFFIC REGULATIONS

1. Availability

RWY 10/28 and TWY G are available during MAY–SEP. During other period information on runway conditions shall be obtained from ATS for flight planning.

2. Start-up and clearance for IFR traffic

Startup and clearance shall be requested on channel 120.305 not earlier than 30 MIN before EOBT.

3. Start-up and clearance for VFR traffic

Start-up and clearance shall be requested before taxiing from apron B.

4. School and training flights

For school and training, permission is required. Permission by ATS TEL +46 (0) 498 26 31 42.

5. Parachuting

For parachuting, permission is required. Permission by ATS. Parachuting landing area – see AD2 ESSV 2-1.

6. Parking Apron A

Prior permission required (PPR) for non-schedule flights for parking apron A, except ambulance flight. Maximum parking time is 60 minutes unless otherwise agreed. Request shall be addressed to vby.ado@swedavia.se or TEL +46 (0)10 109 52 20.

7. Ground movement procedures

Engines shall be operated at minimum power required when taxiing on apron A and B. Caution advised when turning around on apron A and B. Watch out for passengers on aprons. Oversteering is required when taxiing from/to south TWY M from/to apron A stand 1, 2 and 3.

ESSV 2.21 MINSKNING AV BULLERSTÖRNING

1. Över tätbebyggt område

Över de centrala delarna av Visby bör luftfartyg inte framföras på lägre höjd än 2000 ft MSL, utom då så är nödvändigt i samband med start och landning.

Angivna flygvägar, IFR och VFR, har upprättats även för att minska bullerstörningar. Luftfartyg skall noggrant följa i klarering angiven flygväg samt i övrigt framföras så att onödiga bullerstörningar inte förorsakas.

2. Ankommande luftfartyg

Vid landning bör reversering utöver Idle Reverse inte användas mellan 2100-0600 (2000-0500).

3. Motorkörning

Motorkörning i samband med underhåll får endast ske på bana 03/21 mellan 0500-2100 (0400-2000), övriga tider se: www.swedavia.net/airport/visby/start/airport-regulations

4. APU

APU skall inte användas vid parkering vid andra tillfällen än då så krävs för motorstart eller för reglering av kabin temperatur. Därvid får APU startas tidigast 5 min före beräknad tid för taxning. Då utomhustemperaturen överstiger 25°C, och då cirkulation av kabinluften inte är möjlig på annat sätt medges dock start av APU i max 20 min före beräknad tid för taxning. Gäller ej HOSP.

NOISE ABATEMENT PROCEDURES

1. Over built up areas

Over the central parts of Visby aircraft should not be operated below 2000 ft MSL, except when necessary for take-off and landing.

Routes for inbound and outbound traffic, IFR and VFR, have been established also for noise abatement. Aircraft shall strictly adhere to assigned route and be operated in such a manner that unnecessary noise disturbances are not caused

2. Inbound aircraft

On landing reversing more than Idle Reverse should not be applied between 2100-0600 (2000-0500).

3. Test running of engines

Test running of engines in connection with maintenance may be carried out at RWY 03/21, between 0500-2100 (0400-2000), during other hours: www.swedavia.net/airport/visby/start/airport-regulations

4. APU

APU shall not be used on parking unless required for engine start or adjustment of cabin heat. On these occasions APU must not be started earlier than 5 min before estimated time for taxiing. When the temperature outside exceeds 25°C and where air cannot otherwise be circulated in the cabin, APU may be started at a maximum of 20 min before estimated time for taxiing. HOSP excepted.

ESSV 2.22 FLYGPROCEDURER

1. Ankommande IFR-trafik inom Visby TMA/CTR

1.1 Flygvägar

Flygvägar för ankommande trafik är upprättade enligt ESSV 4-4 och ESSV 4-9 till ESSV 4-16.

1.2 Väntlägen

Väntlägen (Ref ENR 1.3 mom 8)
Väntlägen är upprättade enligt ESSV 4-1.

1.3 Visuellinflygningar

Visuellinflygningar i vänstervarv till RWY 03 skall ske söder om Visby hamn på lägsta flyghöjd 1500 ft intill dess flygplanet är etablerat på final RWY 03. Detta gäller för flygplan som överstiger MTOM 7000 kg.

1.4 Cirkling

Cirkling till RWY 03 skall ske i höger varv (öster om banan) p.g.a. bullerrestriktioner över Visby stad. Gäller flygplan med MTOM 7000 kg eller högre.

FLIGHT PROCEDURES

1. Inbound IFR traffic within Visby TMA/CTR

1.1 Routes

Arrival routes are established in accordance with ESSV 4-4 and ESSV 4-9 through ESSV 4-16.

1.2 Holdings

Holdings (Ref ENR 1.3 para 8)
Holding patterns are established in accordance with ESSV 4-1.

1.3 Visual approach

Visual approaches in left hand circuit to RWY 03 shall be carried out south of Visby harbour not below 1500 ft until established on final RWY 03. Limitation applicable to aircraft with MTOM 7000 kg or more.

1.4 Circling

Circling to RWY 03 shall be performed in a right hand circuit (east of runway) due to noise abatement over the city of Visby. Limitation applicable to aircraft with MTOM 7000 kg or more.

2. Avgående IFR-trafik inom Visby TMA/CTR

Flygvägar
SID upprättade enligt ESSV 4-4 till ESSV 4-8
och ESSV 4-15/16.

3. Startprocedurer, omnidirectional

2. Outbound IFR traffic within Visby TMA/CTR

Routes
SIDs established in accordance with
ESSV 4-4 through ESSV 4-8 and ESSV 4-15/16.

3. Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
03	Climb straight ahead to MNM turning ALT 700 ft. Continue climb to appropriate MSA.	Pylon	1109	164°/7150
21	Climb straight ahead to MNM turning ALT 1300 ft. Continue climb to appropriate MSA.	Pylon	1109	172°/8800

4. Avbrott i radioförbindelse

Luffartyg skall följa de föreskrifter som anges i ENR 1.3
mom 10. Under IMC gäller dessutom följande för
ankommande luffartyg.

4.1 Ankommande klarering mottagen och kvitterad eller
om avbrott i radioförbindelse inträffar under radarledning:

Bibehåll senast tilldelad och kvitterad flyghöjd. Fortsätt direkt
till VSB. Vid behov, sjunk i VSB väntläge (MNM 2100 ft
AMSL).

Flygplan med RNAV-kapabilitet:

Från VSB, för bana 03, fortsätt direkt till DEMUS (ej under
2200 ft AMSL) följt av normal instrumentinflygning.

Från VSB, för bana 21, fortsätt direkt till EKMUN (ej under
2200 ft AMSL) följt av normal instrumentinflygning.

Flygplan utan RNAV-kapabilitet:

Efter ankomst över VSB skall erforderlig nedgång utföras i
väntläge, varefter normal instrumentinflygning skall utföras.

Har EAT mottagits och kvitterats, påbörja nedgången till
2200 ft AMSL vid EAT.

4.2 Ankommande klarering inte mottagen och/eller
kvitterad:

Bibehåll senast tilldelad och kvitterad flyghöjd.
Fortsätt via aktuell inpasseringspunkt i TMA (ref punkt 1.1
ovan) direkt till VSB.
Efter ankomst över VSB, sjunk i VSB väntläge
(MNM 2100 ft AMSL).

Flygplan med RNAV-kapabilitet:

Från VSB, för bana 03, fortsätt direkt till DEMUS (ej under
2200 ft AMSL) följt av normal instrumentinflygning.

Från VSB, för bana 21, fortsätt direkt till EKMUN (ej under
2200 ft AMSL) följt av normal instrumentinflygning.

Flygplan utan RNAV-kapabilitet:

Efter ankomst över VSB skall erforderlig nedgång utföras i
väntläge, varefter normal instrumentinflygning skall utföras.

4. Communication failure

Aircraft shall adhere to the procedures stipulated in ENR 1.3
para 10. In addition, in IMC the relevant procedures below
shall be applied by inbound aircraft.

4.1 Inbound clearance received and acknowledged or in
the event of communication failure during radar vectoring:

Maintain the level last received and acknowledged. Proceed
direct to VSB. If required descend in HLDG VSB
(MNM 2100 ft AMSL).

ACFT with RNAV capability:

From VSB, for RWY 03, proceed direct to DEMUS (not below
2200 ft AMSL) for a normal instrument approach.

From VSB, for RWY 21, proceed direct to EKMUN (not below
2200 ft AMSL) for a normal instrument approach.

ACFT without RNAV capability.

After arrival overhead VSB descent, if required, shall be
made in holding. Thereafter a normal instrument approach
shall be carried out.

If an EAT has been received and acknowledged, commence
the above descent to 2200 ft AMSL at the EAT.

4.2 No inbound clearance received and/or
acknowledged:

Maintain the level last received and acknowledged.
Proceed via the relevant TMA entry point (ref 1.1 above)
direct to VSB.
After arrival over VSB, descend in the published holding
pattern (MNM 2100 ft AMSL).

ACFT with RNAV capability:

From VSB, for RWY 03, proceed direct to DEMUS (not below
2200 ft AMSL) for a normal instrument approach.

From VSB, for RWY 21, proceed direct to EKMUN (not below
2200 ft AMSL) for a normal instrument approach.

ACFT without RNAV capability:

After arrival overhead VSB descent, if required, shall be
made in holding. Thereafter a normal instrument approach
shall be carried out.

4.3 Avbruten inflygning

Stig rakt fram till 2200 ft AMSL. Därefter vänstersväng till VSB VOR för ny instrumentinflygning.

5. Lågsiktsprocedurer (LVP) etablerade

Lägsta RVR för avgående trafik på bana 03/21 är 400 m.

LVP träder i kraft när bansynvidden (RVR) är lägre än 550 m eller när molntäckeshöjden eller vertikalsikten är lägre än 200 ft.

Meddelande om att LVP är i kraft lämnas av ATS.

När LVP är aktiverat tillåts endast en rörelse åt gången på manöverområdet.

6. VFR-flygning inom Visby TMA/CTR

Lufffartyg skall följa föreskrifterna i ENR 1.2 mom 4. Därutöver gäller nedanstående föreskrifter.

Normala in- och utpasseringspunkter
Se ESSV 6-1

Väntlägen
Se ESSV 6-1

Avbrott i radioförbindelse
Se ESSV 6-1

4.3 Missed approach

Climb straight ahead to 2200 ft AMSL. Then turn left to VSB VOR for a new instrument approach.

5. Low visibility procedures (LVP) established

Minimum RVR for departing traffic at RWY 03/21 is 400 m.

LVP will be in force when RVR is below 550 m or ceiling or vertical visibility is below 200 ft.

The application of LVP will be announced by ATS.

During LVP operations only one movement at a time is allowed at the manoeuvring area.

6. VFR flight within Visby TMA/CTR

Aircraft shall adhere to the procedures stipulated in ENR 1.2 para 4 and. In addition, the procedures specified below shall be applied.

Normal entry and exit points:
See ESSV 6-1

Holdings
See ESSV 6-1

Communication failure
See ESSV 6-1

ESSV 2.23 ÖVRIG INFORMATION

1. Reducerad banseparation

Reducerad banseparation tillämpas enligt AD 1.1 mom 10 mellan lufffartyg kategori 1 inbördes, samt mellan kategori 1 och 2 om kategori 1 är bakomvarande.

2. Obemannade ballonger

Obemannade ballonger för rutinmässiga aerologiska mätningar skickas upp från SMHI autosondstation, väster om tröskel bana 21, dagligen 0040 och 1240 (2340 och 1140).

3. Parkering för lätta lufffartyg

Parkering för lätta lufffartyg hänvisas till platta B (gräs) söder om bana 10/28. Bedömning av tillräckligt säkerhetsavstånd vid rangering skall ske av befälhavare.

4. Beviljade undantag från krav i CS-ADR-DSN:

- TILS placering på stråket (30 m från bankant).

ADDITIONAL INFORMATION

1. Reduced runway separation

Reduced runway separation is applied in accordance with AD 1.1 para 10 between aircraft of category 1 themselves, also between category 1 and 2 aircraft if category 1 is behind.

2. Unmanned balloons

Unmanned balloons for routine aerological measurements are sent from SMHI automatic probe station, W of threshold runway 21, daily 0040 and 1240 (2340 and 1140).

3. Parking of light aircraft

Parking of light aircraft shall be made at apron B (grass) south of RWY 10/28. Parking safety assessment shall be made by pilot in command.

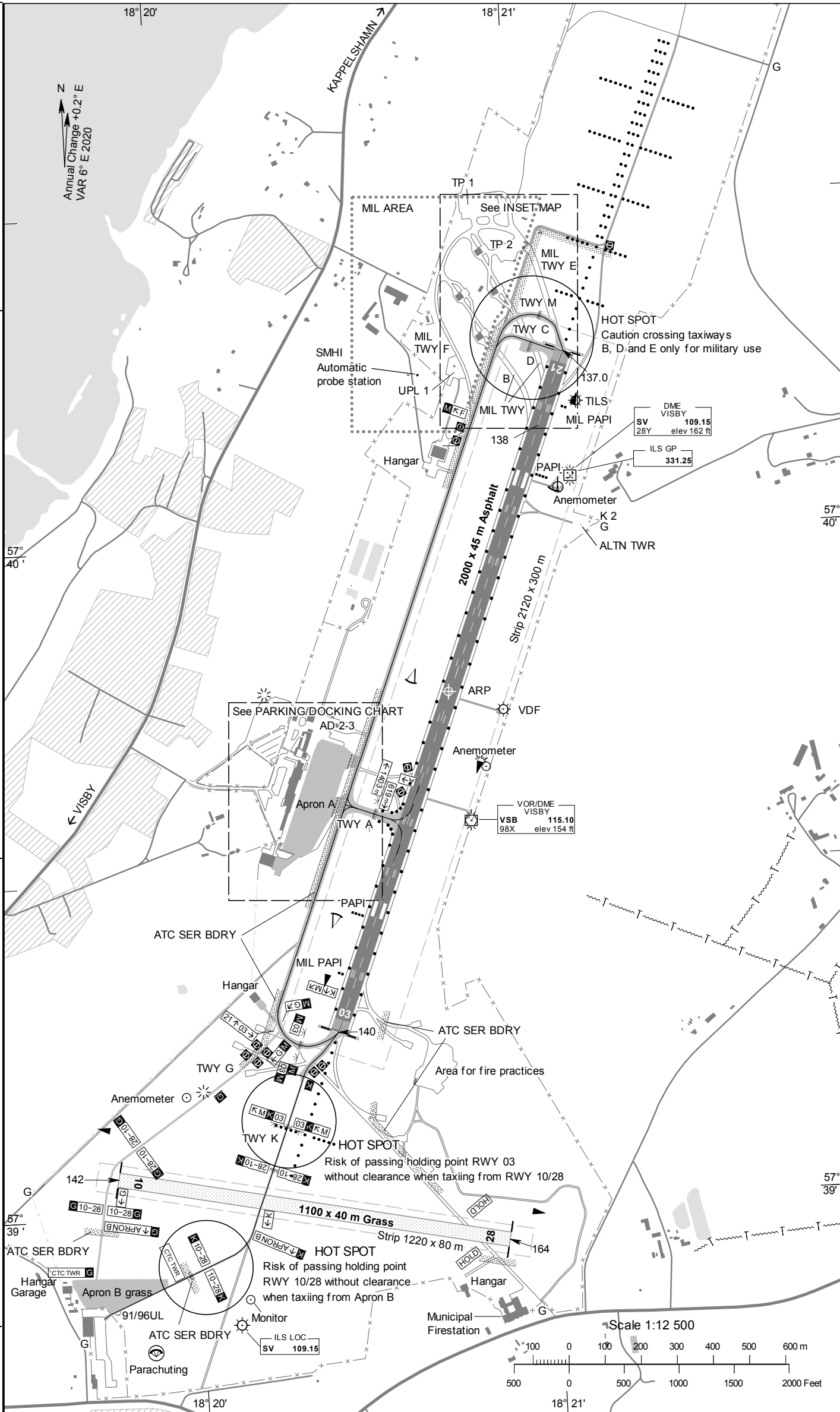
4. Granted exemptions from requirements in CS-ADR-DSN:

- TILS position on the runway strip (30 m from runway edge).

ESSV 2.24 TILLHÖRANDE KARTOR

RELATED CHARTS

AD chart		ESSV 2-1
AD chart		ESSV 2-3
AOC		ESSV-3-1
Area chart		ESSV 4-1
List of waypoints and significant points		ESSV 4-3
RNAV SID/STAR General		ESSV 4-4
RNAV (GNSS) SID	RWY 03	ESSV 4-5
RNAV (GNSS) SID	RWY 21	ESSV 4-7
RNAV (GNSS) STAR	RWY 03	ESSV 4-9
RNAV (GNSS) STAR	RWY 21	ESSV 4-11
STAR	RWY 03	ESSV 4-13
SID and STAR	RWY 21	ESSV 4-15
ATC Surveillance Minimum ALT chart		ESSV 4-91
IAC	ILS z or LOC z RWY 21	ESSV 5-1
IAC	ILS y or LOC y RWY 21	ESSV 5-2
IAC	VOR RWY 21	ESSV 5-3
IAC	VOR RWY 03	ESSV 5-5
IAC	RNP RWY 03	ESSV 5-7
IAC	RNP RWY 21	ESSV 5-11
VAC		ESSV 6-1



ARP 573946N 0182046E

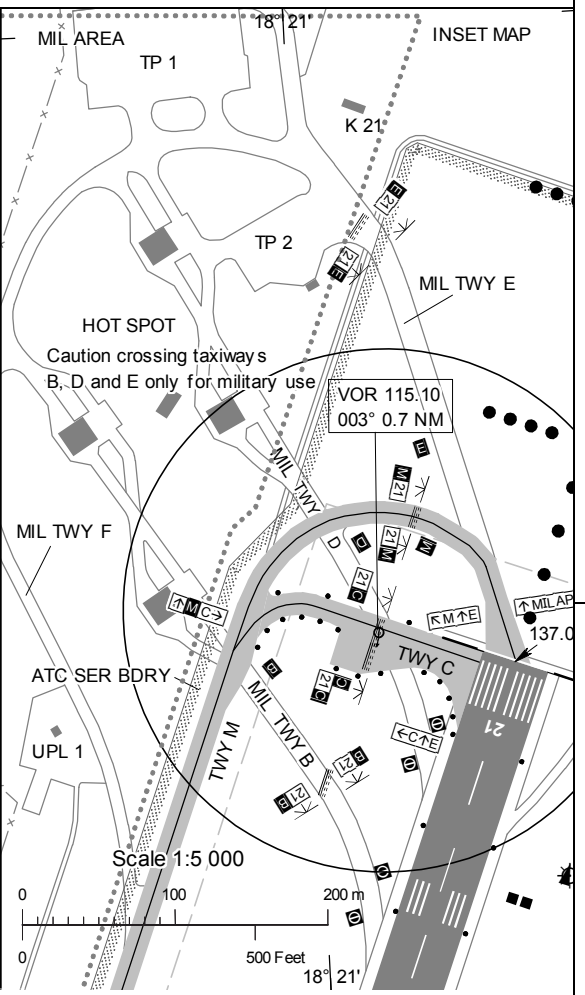
AD ELEV 164 FEET

LEGEND See GEN 2.3

Dimensions in m, ELEV in ft

TWY NR	WIDTH	Surface Bearing strength	Day marking		Taxiway lighting	
			Centerline Holding	Edge Centerline	RGL	Stopbar
A	20 m	ASPH PCN 50 F/A/X/T	CL HLDG	EDGE	RGL	
C	15 m	ASPH PCN 44 F/A/X/T	CL HLDG	EDGE	RGL	
G	6 m	GRASS				
K	6 m	ASPH	CL HLDG		RGL	
M	15 m	ASPH PCN 50 F/A/X/T	CL HLDG		RGL	

SPECIAL REGULATIONS:
 TWY B, D, E and F only available for MIL traffic.
 TWY M available during daylight for CIV traffic aircraft code A, B and C with wheelbase below 18 m.



57° 39'

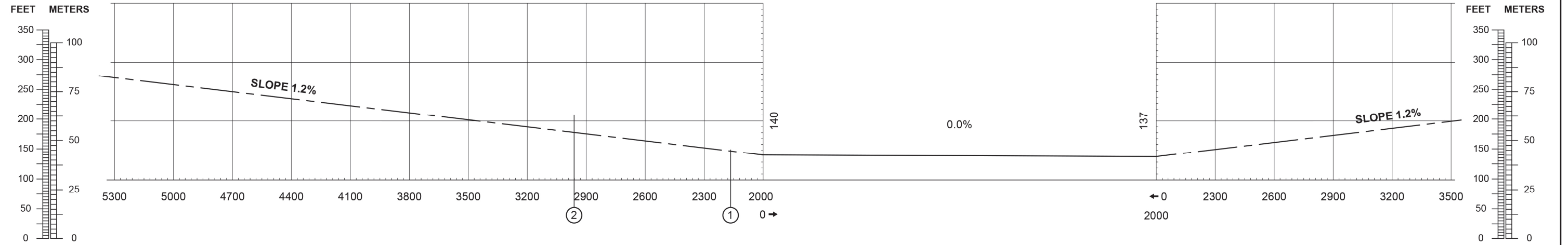
RWY NR	TRUE & MAG BRG	THR PSN Geoid undulation	Bearing strength	THR ELEV and highest ELEV of TDZ of precision APCH RWY	Declared distances				Approach and runway lighting				
					TORA	TODA	ASDA	LDA	APCH	THR TRID TDZ	VASIS (MEHT)	Edge	End
03	020.98° GEO 015° MAG	573915.89N 0182024.75E GUND 82 ft	PCN 50 F/A/X/T	THR 140 ft	2000	2000	2000	2000	SALS 420 m LIH	THR Green WBAR	PAPI Left/3.00° (55.8 ft)	2000/55 m White Caution zone 600 m yellow LIH	Red WBAR
21	200.99° GEO 195° MAG	574016.25N 0182107.96E GUND 81.7 ft	PCN 50 F/A/X/T	THR 137.0 ft TDZ 137.8 ft	2000	2000	2000	2000	Calvert Cat I 900 m LIH	THR Green WBAR	PAPI Left/3.00° (61.7 ft)	2000/55 m White Caution zone 600 m yellow LIH	Red WBAR
10	101.40° GEO 095° MAG	573903.56N 0181946.75E GUND 82 ft		THR 142 ft	1100	1100	1100	1100					
28	281.40° GEO 275° MAG	573856.53N 0182051.80E GUND 82 ft		THR 164 ft	1100	1100	1100	1100					

REMARK: 91/96UL daytime.

AERODROME ELEVATION 164 FEET
MAGNETIC VARIATION 6° E 2020

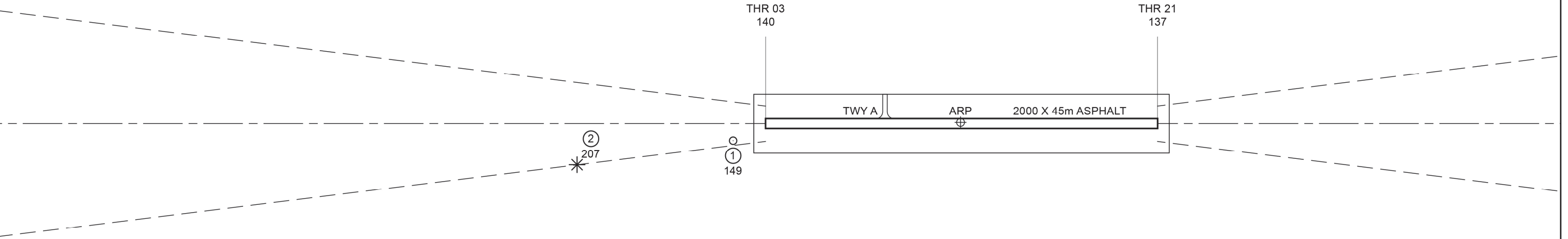
RUNWAY BEARINGS
03 = GEO 020.98°; MAG 015°
21 = GEO 200.99°; MAG 195°

RWY 03	DECLARED DISTANCES	RWY 21
2000	TAKE-OFF RUN AVAILABLE	2000
2000	TAKE-OFF DISTANCE AVAILABLE	2000
2000	ACCELERATE STOP DIST. AVAILABLE	2000
2000	LANDING DISTANCE AVAILABLE	2000

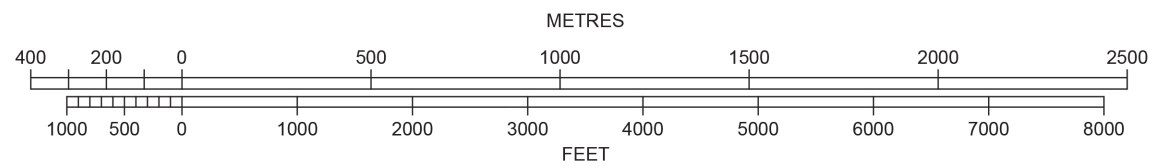


VERTICAL SCALE
1:2000

VERTICAL SCALE
1:2000



HORIZONTAL SCALE 1:20 000



ORDER OF ACCURACY
HORIZONTAL 5 m
VERTICAL 1 ft

LEGEND	
IDENTIFICATION NUMBER	①
POLE, TOWER, SPIRE, ANTENNA, ETC.	○
BUILDING OR LARGE STRUCTURE	□
TREE OR SHRUB	*
LFV	

CHANGE: Editorial.

AIRAC AMDT 6/2024

ESSV-AOC 03/21
28 NOV 2024

ESNZ 2.17 ATS AIRSPACE

1.	Designation and lateral limits	ÖSTERSUND CTR	631716N 0141449E - 631706N 0142949E - 631344N 0145149E - 630636N 0144349E - 630408N 0143749E - 630756N 0142109E - 631236N 0141009E - 631716N 0141449E
2.	Vertical limits	ÖSTERSUND CTR	<u>3050 ft AMSL</u> GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	ÖSTERSUND TOWER Swedish/English	
5.	Transition altitude	6000 ft AMSL	
6.	Remarks	CTR established during hours of TWR.	

ESNZ 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR/APP	ÖSTERSUND TOWER	135.655	HO	Primary channel
		130.905	HO	By directive from ATS
		121.500	HO	-
		122.100	HX	By directive from ATS
		131.705	HO	De-icing

ESNZ 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
LOC 12 ILS CAT III (5° E 2020)	PC	109.50 MHz	H24	631116.4N 0143155.2E		412 m beyond THR 30 LOC Class III/E/4
GP		332.60 MHz	H24	631154.2N 0142913.7E		Angle 3.0° RDH 51.2 ft 371 m past THR 12 left side. During winter angle may vary BTN 2.86° and 3.14° due snow. GP Class III/T/4
L 30	DJ	312 kHz	H24	631041.4N 0143503.5E		Range 15 NM
DVOR/DME (5° E 2020)	OSS	114.65 MHz	H24	631158.4N 0142915.2E	1201 ft	DME channel 93Y No VOR/DME coverage BTN R-120 and R-150 outside OSS DME 25 below 6600 ft AMSL.
DME	PC	109.50 MHz	H24	631154.4N 0142913.8E	1227 ft	370 m past THR 12 left side DME channel 32X

ESNZ 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. Alla luftfartyg ska begära start-up från ATC. Klarering lämnas på begäran före begäran om start-up. Klareringen utfärdas för gällande bana och tillämplig SID eller utpasseringspunkt ur TMA.
2. Dagligen mellan 2100-0500 (2000-0400) får flygplatsen inte trafikeras av flygplan certifierade enligt Annex 16, Volume I, Part II, Chapter 2.
3. Kontakta TWR eller ledsagning på platta innan flyttning av flygplan från anvisad parkering.
4. Motorkörning av luftfartyg på plattor kräver tillstånd från flygtrafikledning eller Swedavia under flygplatsens publicerade öppethållningstider, på andra tider skall luftfartyg som motorkör passa flygtrafikledningens kanal 135.655.
5. Uttaxning från platta Norr
Under uttaxning från platta Norr skall luftfartyg övergå från "Break away" till "Idle" så snart det kommit i rullning. Fart < 3 km/h och noshjulvinkel 80% gäller vid utkörning/sväng från uppställningplats 1-4. När luftfartyg passerar gränsen platta - taxibana får mer gaspådrag nyttjas.

ESNZ 2.21 MINSKNING AV BULLERSTÖRNING

Start RWY 12 samt landning RWY 30 är inte tillåten om inte vind eller trafikförhållanden så kräver.

ESNZ 2.22 FLYGPROCEDURER

1. Ankommande IFR-trafik inom Östersund TMA/CTR
Standardflygvägar för ankommande IFR-trafik (P-RNAV STAR och STAR) är upprättade enligt ESNZ 4-17 -- 4-26.
2. Avgående IFR-trafik inom Östersund TMA/CTR
Standardflygvägar för avgående IFR-trafik (P-RNAV SID och SID) är upprättade enligt ESNZ 4-7 -- 4-13 och ESNZ 4-23/24.
3. Startprocedurer, omnidirectional

LOCAL TRAFFIC REGULATIONS

1. All aircraft shall request start-up from ATC. ATC clearance will be delivered on request prior to start-up. Such clearance will be issued for RWY in use, appropriate SID or TMA exit point.
2. Daily between 2100-0500 (2000-0400) the aerodrome must not be used by aircraft certificated in accordance with ICAO Annex 16, Volume I, Part II, Chapter 2.
3. Contact TWR or Marshal on apron before moving aircraft from advised parking.
4. Test running of engines in connection with maintenance requires permission from TWR or Swedavia during AD operating hours, if test running outside AD operating hours aircraft must monitor TWR channel 135.655.
5. Taxi from apron North
When taxiing from apron North, aircraft should reduce thrust from "Break away" to "Idle" as soon as the aircraft has started rolling. When taxiing from stand 1-4, speed < 3 km/h and nose wheel angle 80% applies. When aircraft has reached the taxiway more thrust may be used.

NOISE ABATEMENT PROCEDURES

Take-off RWY 12 or landing RWY 30 is not permitted unless wind or traffic conditions so require.

FLIGHT PROCEDURES

1. Inbound IFR traffic within Östersund TMA/CTR
Standard Instrument Arrival (P-RNAV STAR and STAR) are established in accordance with ESNZ 4-17 -- 4-26.
2. Outbound IFR traffic within Östersund TMA/CTR
Standard Instrument Departure (P-RNAV SID and SID) are established in accordance with ESNZ 4-7 -- 4-13 and ESNZ 4-23/24.
3. Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
12	Climb straight ahead with MNM 260 ft/NM (4.3%) to MNM turning ALT 2800 ft. Continue climb to appropriate MSA.	Tower	1650	107°/6245
		Antenna	2577	148°/11445
30	Climb straight ahead to MNM turning ALT 2000 ft. Continue climb to appropriate MSA.	Antenna	2577	156°/9452

4. Lägsiktsprocedurer (LVP)
LVP träder i kraft senast när bansynvidden (RVR) är lägre än 550 m eller när molntäckeshöjden eller vertikalsikten är lägre än 200 ft.
Meddelande om att LVP är i kraft lämnas av ATS.

4. Low visibility procedures (LVP)
LVP will be in force at latest when RVR falls below 550 m or ceiling or vertical visibility is below 200 ft.
The application of LVP will be announced by ATS.

Uppstart/driftsättning av LVP tar upp till 30 min.

The preparation phase of LVP lasts approximately 30 min.

När LVP tillämpas tillåts endast fordon alternativt ett luftfartyg på manöverområdet.

When LVP is applied vehicles or only one aircraft is allowed in the manoeuvring area.

5. VFR-flygning inom Östersund TMA/CTR

5. VFR flight within Östersund TMA/CTR

Normala in- och utpasseringspunkter
Se ESNZ 6-1

Normal entry and exit points
See ESNZ 6-1

Väntlägen
Se ESNZ 6-1

Holdings
See ESNZ 6-1

Avbrott i radioförbindelse
Se ESNZ 6-1

Communication failure
See ESNZ 6-1

6. Inflygningsprocedur RNP y RWY 12 (AR)

6. Approach procedure RNP y RWY 12 (AR)

Anslut på RNP y RWY 12 (AR) via RNAV (GNSS) STAR OSLAV 1H eller DOFOK 1H alternativt via radarvektorer, max 45° anslutningsvinkel. RNAV 1 gäller för STAR OSLAV 1H och DOFOK 1H.

Join RNP y RWY 12 (AR) via RNAV (GNSS) STAR OSLAV 1H or DOFOK 1H or via radar vectors, max 45° intercept angle. RNAV 1 valid for STAR OSLAV 1H or DOFOK 1H.

ESNZ 2.23 ÖVRIG INFORMATION

1. ATS-tjänst bedrivs från RTC Stockholm.
2. Signalstrålkastare placerad på R-TWR.
3. GÖVIKEN/Helikopterflygplats ESJH

Med anledning av helikopterflygplats vid Göviken, ca 6500 m öster om ARP, kan försening uppstå vid trafik till/från ESJH med ambulanshelikopter anmäld som HOSP.

4. Beviljade undantag från krav i CS-ADR-DSN

- Längdlutning på banan är maximum 1.14%.
- Första fjärdedelen av bana 30 har länglutning maximum 1.08%.
- Sista fjärdedelen av bana 12 har länglutning maximum 1.08%.
- Fasta hinder genomtränger hinderbegränsande ytor.
- RWY 12: Sättningszonljus (RTZL) 893 m.
- Medeltexturdjupet på banans beläggning är godkänd till 0.8 mm.

ADDITIONAL INFORMATION

1. ATS provided from RTC Stockholm.
2. Signalling lamp positioned at R-TWR.
3. GÖVIKEN/Heliport ESJH

Due to heliport at Göviken, aprx 6500 m E ARP, delays may occur when ambulance helicopter declared as HOSP is flying to/from ESJH.

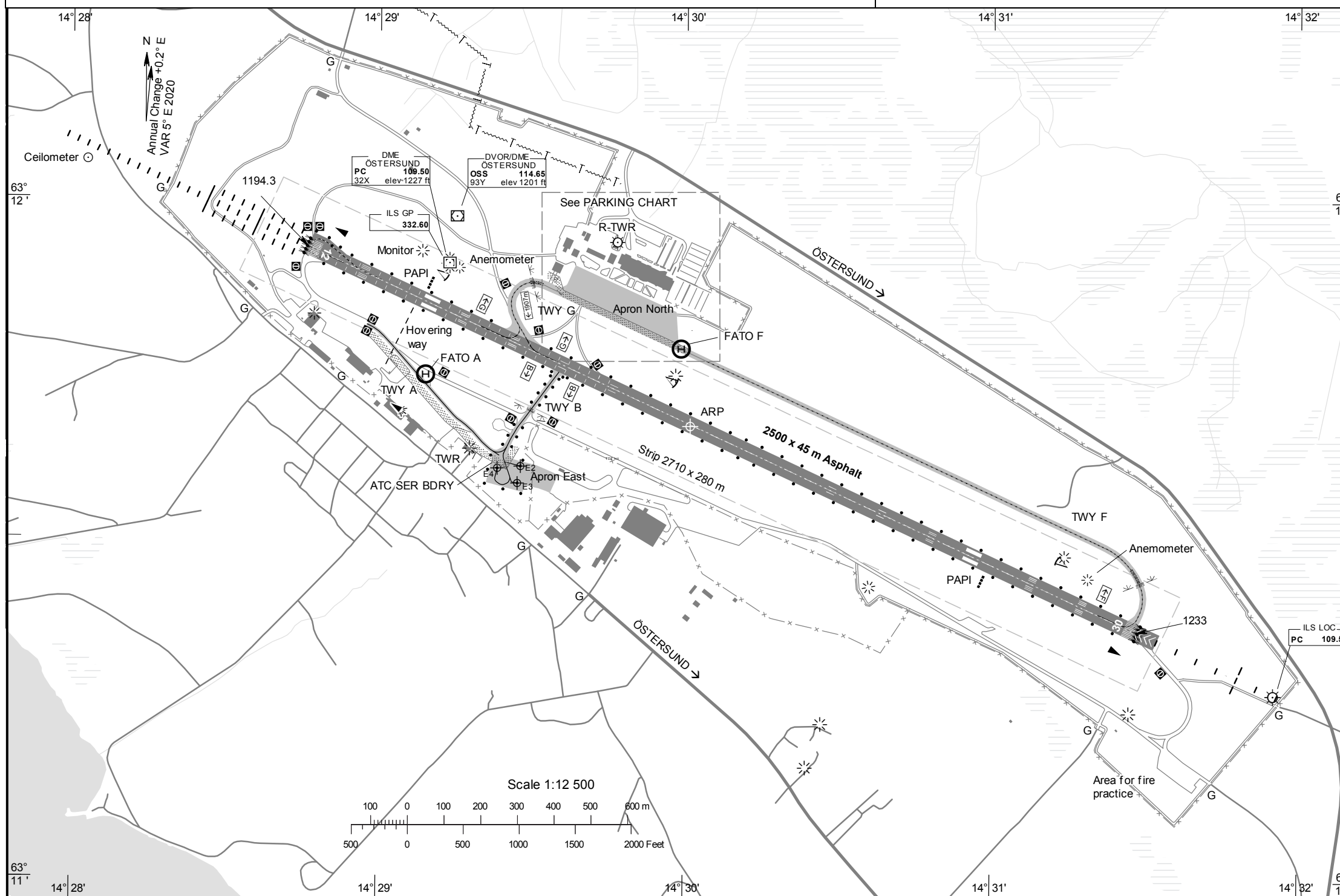
4. Granted exemptions from requirements in CS-ADR-DSN

- Longitudinal slope of the runway is maximum 1.14%.
- RWY 30: The first quarter of the length of runway longitudinal slope is 1.08%.
- RWY 12: The last quarter of the length of runway longitudinal slope is 1.08%.
- Fixed obstacles penetrating the obstacle area.
- RWY 12: Touchdown zone lights (RTZL) 893 m.
- Average surface texture depth on the runway is approved to be 0.8 mm.

ESNZ 2.24 TILLHÖRANDE KARTOR

RELATED CHARTS

AD chart		ESNZ 2-1
AOC		ESNZ-3-1
PATC	RWY 12	ESNZ-3-3
Area chart	(TMA)	ESNZ 4-1
List of Waypoints and significant points		ESNZ 4-3
RNAV SID General		ESNZ 4-5
RNAV (GNSS) SID	RWY 12	ESNZ 4-7
RNAV (GNSS) SID	RWY 30	ESNZ 4-11
RNAV STAR General		ESNZ 4-15
RNAV (GNSS) STAR	RWY 12	ESNZ 4-17
RNAV (GNSS) STAR	RWY 30	ESNZ 4-19
SID/STAR	RWY 12	ESNZ 4-23
STAR	RWY 30	ESNZ 4-25
ATC Surveillance Minimum ALT chart		ESNZ 4-91
IAC	ILS or LOC RWY 12	ESNZ 5-1
IAC	VOR RWY 12	ESNZ 5-3
IAC	VOR RWY 30	ESNZ 5-5
IAC	NDB RWY 30	ESNZ 5-6
IAC	RNP RWY 30	ESNZ 5-7
IAC	RNP z RWY 12	ESNZ 5-9
IAC	RNP y RWY 12 (AR)	ESNZ 5-11
VAC		ESNZ 6-1



ARP 631140N 0143001E

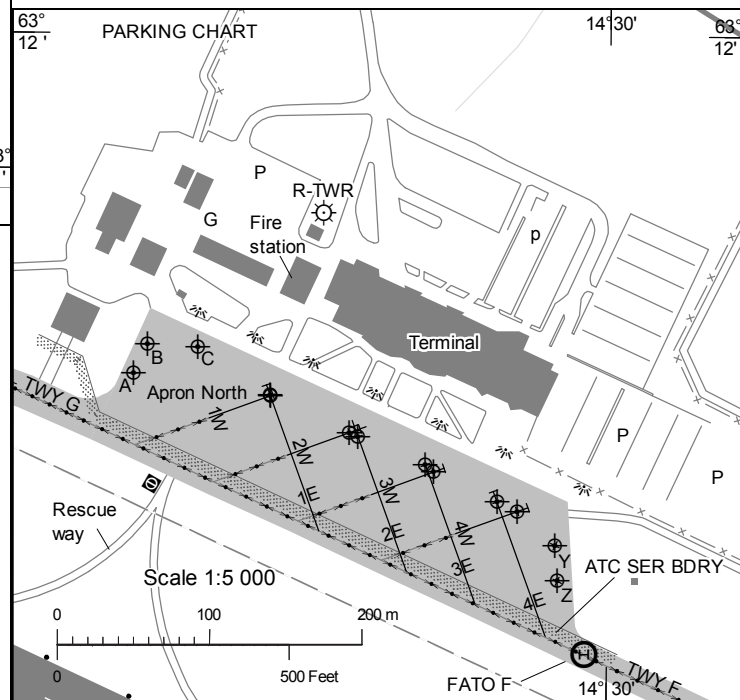
AD ELEV 1233 FEET

LEGEND See GEN 2.3

Dimensions in m, ELEV in ft

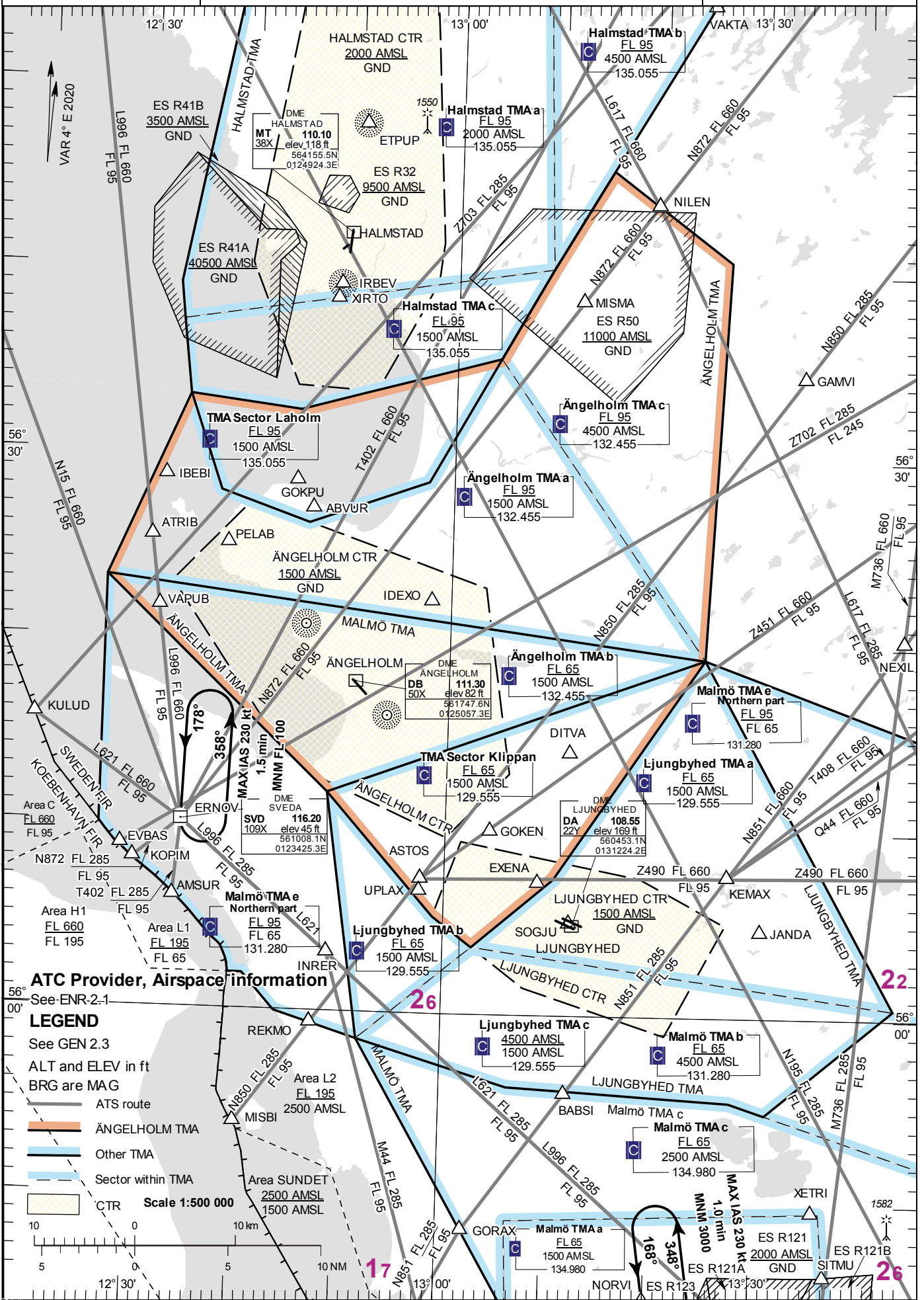
TWY NR	WIDTH	Surface Bearing strength	Day marking		Taxiway lighting	
			Centerline Holding	Edge Centerline	RGL Stopbar	
A	10 m	ASPH PCN 25 F/B/X/T	CL			
B	15 m	ASPH PCN 30 F/B/X/T	CL HLDG	EDGE		RGL
F	18 m	ASPH PCN 71 F/B/X/T	CL HLDG	CL		RGL
G	23 m	ASPH PCN 38 F/B/X/T	CL HLDG	CL		RGL

INS Coordinates for Aircraft Stands			
APRON Surface Bearing strength	NR	COORD	ELEV
Apron East ASPH PCN 23 F/B/X/T	E2	631136.39N 0142927.81E	1183
	E3	631134.87N 0142927.21E	1182
	E4	631136.22N 0142923.27E	1182
Apron North ASPH PCN 55 F/B/X/T	A	631152.76N 0142937.59E	1167
	B	631153.38N 0142938.23E	1167
	C	631153.33N 0142940.61E	1166
	1E	631152.31N 0142944.04E	1165
	2E	631151.44N 0142948.21E	1165
	3E	631150.85N 0142951.39E	1165
	4E	631150.08N 0142954.79E	1164
	1W	631152.30N 0142944.07E	1165
	2W	631151.53N 0142947.80E	1165
	3W	631150.70N 0142951.78E	1165
4W	631149.88N 0142955.75E	1164	
Y	631149.16N 0142957.54E	1165	
Z	631148.40N 0142957.66E	1166	



RWY NR	TRUE & MAG BRG	THR PSN Geoid undulation	Bearing Strength	THR ELEV and highest ELEV of TDZ of precision APCH RWY	Declared distances				Approach and runway lighting					
					TORA	TODA	ASDA	LDA	APCH	THR TRID TDZ	VASIS (MEHT)	RWY CL	Edge	End
12	114.67° GEO 110° MAG	631155.71N 0142845.98E GUND 104.2 ft	PCN 55 F/B/X/T	THR 1194.3 ft TDZ 1194.3 ft	2500	2500	2500	2500	Barrette CL Cat III 720 m LIH	THR Green TDZ 893 m	PAPI Left/3.00° (53.8 ft)	2500/15 m 0-1600 m white, 1600-2200 m white/red, 2200-2500 m red. LIH	2500/60 m White Caution zone 600 m yellow LIH	Red
30	294.71° GEO 290° MAG	631121.99N 0143128.43E GUND 105 ft	PCN 55 F/B/X/T	THR 1233 ft	2500	2500	2500	2500	Barrette CL SALS 420 m LIH	THR Green	PAPI Left/3.00° (68.2 ft)	2500/15 m 0-1600 m white, 1600-2200 m white/red, 2200-2500 m red. LIH	2500/60 m White Caution zone 600 m yellow LIH	Red

REMARK : RWY 12 : Transverse slope. RWY non cambered, single crossfall from right to left. RWY 30 : Transverse slope. RWY non cambered, single crossfall from left to right. Caution Downdraught on short final RWY 12 at wind direction 180°.



ATC Provider, Airspace information

See ENR-2-1

LEGEND

See GEN 2.3

ALT and ELEV in ft

BRG are MAG

— ATS route

— ÄNGELHOLM TMA

— Other TMA

— Sector within TMA

□ CTR

Scale 1:500 000



CHANGE: VOR/DME LJU withdrawn, SOGJU new

AIRAC AMDT 6/2024 28 NOV 2024

Reverse side intentionally blank

AD ELEV 62 FEET
HGT and ALT in ft
TA 5000 AMSL

ÄNGELHOLM TOWER 127.105
ÄNGELHOLM APPROACH 132.455

THIS CHART MAY ONLY BE USED FOR CROSS-CHECKING OF ASSIGNED ALTITUDES WHILST IN RECEIPT OF RADAR SERVICE LEVELS ASSIGNED BY ATC INCLUDE A CORRECTION FOR LOW TEMPERATURE EFFECT

