

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 **08 AUG 2024**

Subject(s)	AIRAC Changes	AIP page
Prohibited, restricted and danger areas	New: ESR124 Björkborn. Changed: ESD180 Kaunisvaara.	ENR 5.1
Gällivare AD	RVR for departing traffic.	AD 2 ESNB
Jönköping AD	Operational hours, RFFS, De-icing, OBST, CWY, RESA.	AD 2 ESGJ
Kalmar AD	PPR.	AD 2 ESMQ
Karlstad AD	RFFS, TEL.	AD 2 ESOK
Kristianstad AD	IAP, MAG VAR, flight procedures, RFFS, OBST converted from meter to feet.	AD 2 ESMK
Linköping/Saab	PPR, contact information, ACL, LED, anemometer, exemptions.	AD 2 ESSL
Stockholm/Bromma AD	Noise abatement procedures, local traffic regulations, windsocks, anemometers.	AD 2 ESSB
Sveg AD	IAP, MAG VAR, address, apron.	AD 2 ESND

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.	
Altimeter setting procedures	Editorial.	ENR 1.7
Area navigation routes	Remarks removed.	ENR 3.2
Aerodrome directory	ESJS, ESHG, ESEW, ESGV, ESGL, ESCL.	AD 1.1
Arvidsjaur AD	Local traffic regulations.	AD 2 ESNX
Göteborg/Landvetter AD	LOC/GP Class.	AD 2 ESGG
Hagfors AD	OBST converted from meter to feet.	AD 2 ESOH
Ljungbyhed AD	OBST converted from meter to feet.	AD 2 ESTL
Skellefteå AD	LED, local traffic regulations.	AD 2 ESNB
Stockholm/Arlanda AD	LOC/GP Class.	AD 2 ESSA
Torsby AD	OBST.	AD 2 ESST
Trollhättan-Vänersborg AD	Fuel.	AD 2 ESGT
Åre Östersund AD	Correction THR, TDZ.	AD 2 ESNZ
Örnsköldsvik AD	RFFS.	AD 2 ESNO

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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 08 aug-24

The following AIP Supplements, AIC and NOTAMs are incorporated in this amendment and will expire on 08 aug-24.

**Supplement:** 92/2024

**AIC:** -

**NOTAM:**

Series A: 0528/24

Series B: 1404/24, 1690/24, 1965/24

Series C: 0903/23, 0099/24, 0525/24, 0529/24

Series D: 0129/24, 0158/24

Series E: 0372/24, 0417/24, 0419/24, 0420/24, 0422/24, 0461/24, 0462/24, 0504/24

Series H: 0187/24

For comments, please contact: [aip@lfv.se](mailto:aip@lfv.se)

- E N D / S L U T -





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<b>Ljungbyhed ESTL</b>		ESPA 5-5	19 MAY 2022	ESMS 4-15	17 JUN 2021	ESSP 6-1	21 MAR 2024
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ESTL 1-7	02 NOV 2023	ESPA 6-1	13 JUN 2024	ESMS 5-3	16 MAY 2024	ESUP 1-6	21 MAR 2024
ESTL 1-8	02 NOV 2023	<b>Lycksele ESNL</b>		ESMS 5-5	16 MAY 2024	ESUP 1-7	21 MAR 2024
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<b>Stockholm/Arlanda ESSA</b>		ESSA 4-36	17 JUN 2021	ESSB 1-3	18 MAY 2023	ESKN 4-13	21 JUN 2018
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ESND 5-6	08 AUG 2024	ESST 1-1	25 JAN 2024	ESNU 4-8	18 JUN 2020	ESNV 1-7	11 AUG 2022
ESND 5-7	08 AUG 2024	ESST 1-2	10 AUG 2023	ESNU 4-13	30 JAN 2020	ESNV 1-8	11 AUG 2022
ESND 5-9	08 AUG 2024	ESST 1-3	25 JAN 2024	ESNU 4-15	30 JAN 2020	ESNV 1-9	11 AUG 2022
ESND 5-10	08 AUG 2024	ESST 1-4	08 AUG 2024	ESNU 4-16	30 JAN 2020	ESNV 2-1	18 MAY 2023
ESND 5-11	08 AUG 2024	ESST 1-5	08 AUG 2024	ESNU 4-19	30 JAN 2020	ESNV 3-1	11 AUG 2022
ESND 6-1	08 AUG 2024	ESST 1-6	08 AUG 2024	ESNU 4-20	30 JAN 2020	ESNV 4-3	30 JAN 2020
		ESST 1-7	08 AUG 2024	ESNU 4-23	05 NOV 2020	ESNV 5-1	10 AUG 2023
<b>Såtenäs ESIB</b>		ESST 1-8	08 AUG 2024	ESNU 4-24	18 JUN 2020	ESNV 5-2	10 AUG 2023
ESIB 1-1	23 MAR 2023	ESST 1-9	08 AUG 2024	ESNU 4-25	18 JUN 2020	ESNV 5-3	29 MAR 2018
ESIB 1-2	03 APR 2014	ESST 2-1	25 JAN 2024	ESNU 4-26	18 JUN 2020	ESNV 5-5	30 JAN 2020
ESIB 1-3	05 NOV 2020	ESST 3-1	08 AUG 2024	ESNU 4-91	21 MAR 2024	ESNV 5-6	30 JAN 2020
ESIB 1-4	17 JUN 2021	ESST 4-3	25 JAN 2024	ESNU 5-1	18 JUN 2020	ESNV 5-7	30 JAN 2020
ESIB 1-5	13 AUG 2020	ESST 5-1	25 JAN 2024	ESNU 5-2	18 JUN 2020	ESNV 5-9	30 JAN 2020
ESIB 1-6	05 NOV 2020	ESST 5-2	25 JAN 2024	ESNU 5-3	18 JUN 2020	ESNV 5-10	30 JAN 2020
ESIB 1-7	17 JUN 2021	ESST 5-3	25 JAN 2024	ESNU 5-4	18 JUN 2020	ESNV 5-11	30 JAN 2020
ESIB 1-8	01 DEC 2022	ESST 5-4	25 JAN 2024	ESNU 5-5	30 JAN 2020	ESNV 6-1	30 JAN 2020
ESIB 1-9	01 DEC 2022	ESST 5-5	25 JAN 2024	ESNU 5-7	18 JUN 2020		
ESIB 2-1	23 MAR 2023	ESST 5-6	25 JAN 2024	ESNU 5-8	18 JUN 2020	<b>Visby ESSV</b>	
ESIB 4-3	28 MAR 2019	ESST 5-7	25 JAN 2024	ESNU 5-9	18 JUN 2020	ESSV 1-1	26 JAN 2023
ESIB 4-91	21 MAR 2024	ESST 5-9	25 JAN 2024	ESNU 5-10	18 JUN 2020	ESSV 1-2	13 JUN 2024
ESIB 5-1	01 DEC 2022	ESST 5-10	25 JAN 2024	ESNU 6-1	21 MAR 2024	ESSV 1-3	15 JUN 2023
ESIB 5-2	01 DEC 2022	ESST 5-11	25 JAN 2024			ESSV 1-4	13 JUN 2024
ESIB 5-3	01 DEC 2022	ESST 6-1	16 MAY 2024	<b>Uppsala ESCM</b>		ESSV 1-5	13 JUN 2024
ESIB 5-4	01 DEC 2022			ESCM 1-1	21 MAR 2024	ESSV 1-6	13 JUN 2024
ESIB 5-5	01 DEC 2022	<b>Trollhättan-Vänernsberg ESGT</b>		ESCM 1-2	23 MAR 2023	ESSV 1-7	13 JUN 2024
ESIB 5-6	01 DEC 2022	ESGT 1-1	02 NOV 2023	ESCM 1-3	26 JAN 2023	ESSV 1-8	13 JUN 2024
ESIB 5-7	01 DEC 2022	ESGT 1-2	08 AUG 2024	ESCM 1-4	26 JAN 2023	ESSV 1-9	13 JUN 2024
ESIB 5-8	01 DEC 2022	ESGT 1-3	23 MAR 2023	ESCM 1-5	26 JAN 2023	ESSV 1-10	13 JUN 2024
ESIB 5-9	01 DEC 2022	ESGT 1-4	23 MAR 2023	ESCM 1-6	21 MAR 2024	ESSV 1-11	13 JUN 2024
ESIB 5-11	01 DEC 2022	ESGT 1-5	02 NOV 2023	ESCM 1-7	26 JAN 2023	ESSV 2-1	13 JUN 2024
ESIB 5-12	01 DEC 2022	ESGT 1-6	23 MAR 2023	ESCM 1-8	21 MAR 2024	ESSV 2-3	13 JUN 2024
ESIB 5-13	01 DEC 2022	ESGT 1-7	02 NOV 2023	ESCM 1-9	18 MAY 2023	ESSV 3-1	16 JUN 2022
ESIB 6-1	21 MAR 2024	ESGT 1-8	02 NOV 2023	ESCM 1-10	18 MAY 2023	ESSV 4-1	13 JUN 2024
		ESGT 1-9	21 MAR 2024	ESCM 2-1	21 MAR 2024	ESSV 4-3	15 AUG 2019
<b>Sälén/Scandinavian Mountains ESKS</b>		ESGT 1-10	21 MAR 2024	ESCM 3-1	26 JAN 2023	ESSV 4-4	02 APR 2015
ESKS 1-1	13 AUG 2020	ESGT 2-1	02 NOV 2023	ESCM 3-3	26 JAN 2023	ESSV 4-5	17 JUN 2021
		ESGT 3-1	02 NOV 2023	ESCM 4-3	21 MAY 2020	ESSV 4-6	15 AUG 2019
				ESCM 5-1	21 MAR 2024	ESSV 4-7	17 JUN 2021

Sida/ Page	Datum/ Date	Sida/ Page	Datum/ Date	Sida/ Page	Datum/ Date	Sida/ Page	Datum/ Date
ESSV 4-8	15 AUG 2019	ESNZ 4-17	02 DEC 2021	ESOE 4-91	08 AUG 2024		
ESSV 4-9	17 JUN 2021	ESNZ 4-18	02 DEC 2021	ESOE 5-1	13 JUN 2024		
ESSV 4-10	15 AUG 2019	ESNZ 4-19	08 NOV 2018	ESOE 5-2	13 JUN 2024		
ESSV 4-11	17 JUN 2021	ESNZ 4-20	09 NOV 2017	ESOE 5-3	13 JUN 2024		
ESSV 4-12	17 JUN 2021	ESNZ 4-21	09 NOV 2017	ESOE 5-4	13 JUN 2024		
ESSV 4-13	17 JUN 2021	ESNZ 4-23	28 MAR 2019	ESOE 5-5	08 AUG 2024		
ESSV 4-14	15 AUG 2019	ESNZ 4-24	28 MAR 2019	ESOE 5-6	13 JUN 2024		
ESSV 4-15	17 JUN 2021	ESNZ 4-25	28 MAR 2019	ESOE 5-7	13 JUN 2024		
ESSV 4-16	15 AUG 2019	ESNZ 4-26	28 MAR 2019	ESOE 5-8	13 JUN 2024		
ESSV 4-91	13 JUN 2024	ESNZ 4-91	15 JUN 2023	ESOE 5-9	15 JUN 2023		
ESSV 5-1	13 JUN 2024	ESNZ 5-1	17 JUN 2021	ESOE 5-11	13 JUN 2024		
ESSV 5-2	13 JUN 2024	ESNZ 5-3	07 NOV 2019	ESOE 5-12	13 JUN 2024		
ESSV 5-3	17 JUN 2021	ESNZ 5-5	28 MAR 2019	ESOE 5-13	10 AUG 2023		
ESSV 5-5	17 JUN 2021	ESNZ 5-6	28 MAR 2019	ESOE 6-1	13 JUN 2024		
ESSV 5-7	17 JUN 2021	ESNZ 5-7	08 NOV 2018				
ESSV 5-8	25 MAR 2021	ESNZ 5-8	25 JUN 2015	<b>Örnsköldsvik ESNO</b>			
ESSV 5-9	17 JUN 2021	ESNZ 5-9	02 DEC 2021	ESNO 1-1	15 AUG 2019		
ESSV 5-11	17 JUN 2021	ESNZ 5-10	02 DEC 2021	ESNO 1-2	08 AUG 2024		
ESSV 5-12	25 MAR 2021	ESNZ 5-11	02 DEC 2021	ESNO 1-3	21 MAR 2024		
ESSV 5-13	25 MAR 2021	ESNZ 5-12	02 DEC 2021	ESNO 1-4	15 AUG 2019		
ESSV 6-1	13 JUN 2024	ESNZ 6-1	26 JAN 2023	ESNO 1-5	28 MAR 2019		
				ESNO 1-6	17 JUN 2021		
				ESNO 1-7	11 AUG 2022		
				ESNO 2-1	17 JUN 2021		
				ESNO 3-1	16 MAY 2024		
				ESNO 4-1	21 MAR 2024		
				ESNO 4-3	16 AUG 2018		
				ESNO 4-91	28 JAN 2021		
				ESNO 5-1	15 AUG 2019		
				ESNO 5-2	07 NOV 2019		
				ESNO 5-3	07 NOV 2019		
				ESNO 5-5	15 AUG 2019		
				ESNO 5-6	15 AUG 2019		
				ESNO 5-7	04 NOV 2021		
				ESNO 5-8	08 NOV 2018		
				ESNO 5-9	16 AUG 2018		
				ESNO 5-11	07 NOV 2019		
				ESNO 5-12	07 NOV 2019		
				ESNO 5-13	16 AUG 2018		
				ESNO 6-1	21 MAR 2024		
				<b>AD 3</b>			
				3.1-1	31 MAR 2016		
<b>Växjö/Kronoberg ESMX</b>		<b>Ängelholm ESTA</b>					
ESMX 1-1	23 MAR 2023	ESTA 1-1	19 MAY 2022				
ESMX 1-2	13 JUN 2024	ESTA 1-2	13 JUN 2024				
ESMX 1-3	23 MAR 2023	ESTA 1-3	27 JAN 2022				
ESMX 1-4	23 MAR 2023	ESTA 1-4	27 JAN 2022				
ESMX 1-5	13 JUN 2024	ESTA 1-5	21 MAR 2024				
ESMX 1-6	23 MAR 2023	ESTA 1-6	21 MAR 2024				
ESMX 1-7	23 MAR 2023	ESTA 1-7	02 NOV 2023				
ESMX 2-1	23 MAR 2023	ESTA 1-8	19 MAY 2022				
ESMX 3-1	21 MAR 2024	ESTA 1-9	19 MAY 2022				
ESMX 4-1	23 MAR 2023	ESTA 2-1	27 JAN 2022				
ESMX 4-3	25 APR 2019	ESTA 2-3	27 JAN 2022				
ESMX 4-91	23 MAR 2023	ESTA 3-1	27 JAN 2022				
ESMX 5-1	23 MAR 2023	ESTA 3-3	07 DEC 2017				
ESMX 5-2	23 MAR 2023	ESTA 4-1	16 MAY 2024				
ESMX 5-3	23 MAR 2023	ESTA 4-3	24 MAR 2022				
ESMX 5-4	23 MAR 2023	ESTA 4-5	04 NOV 2021				
ESMX 5-5	23 MAR 2023	ESTA 4-6	18 JUN 2020				
ESMX 5-6	23 MAR 2023	ESTA 4-7	04 NOV 2021				
ESMX 5-7	23 MAR 2023	ESTA 4-8	18 JUN 2020				
ESMX 5-9	23 MAR 2023	ESTA 4-91	23 MAR 2023				
ESMX 5-10	23 MAR 2023	ESTA 5-1	04 NOV 2021				
ESMX 5-11	23 MAR 2023	ESTA 5-2	04 NOV 2021				
ESMX 6-1	21 MAR 2024	ESTA 5-3	04 NOV 2021				
		ESTA 5-4	04 NOV 2021				
		ESTA 5-5	27 JAN 2022				
		ESTA 5-7	24 MAR 2022				
		ESTA 5-8	24 MAR 2022				
		ESTA 5-9	24 MAR 2022				
		ESTA 5-11	24 MAR 2022				
		ESTA 5-12	24 MAR 2022				
		ESTA 5-13	24 MAR 2022				
		ESTA 6-1	21 MAR 2024				
<b>Äre Östersund ESNZ</b>		<b>Örebro ESOE</b>					
ESNZ 1-1	26 JAN 2023	ESOE 1-1	13 JUN 2024				
ESNZ 1-2	28 JAN 2021	ESOE 1-2	16 MAY 2024				
ESNZ 1-3	26 JAN 2023	ESOE 1-3	13 JUN 2024				
ESNZ 1-4	16 MAY 2024	ESOE 1-4	13 JUN 2024				
ESNZ 1-5	08 AUG 2024	ESOE 1-5	13 JUN 2024				
ESNZ 1-6	13 JUN 2024	ESOE 1-6	13 JUN 2024				
ESNZ 1-7	16 MAY 2024	ESOE 1-7	13 JUN 2024				
ESNZ 1-8	16 MAY 2024	ESOE 1-8	25 JAN 2024				
ESNZ 1-9	16 MAY 2024	ESOE 1-9	25 JAN 2024				
ESNZ 1-10	16 MAY 2024	ESOE 1-10	25 JAN 2024				
ESNZ 2-1	08 AUG 2024	ESOE 2-1	13 JUN 2024				
ESNZ 3-1	23 MAR 2023	ESOE 3-1	13 JUN 2024				
ESNZ 3-3	13 AUG 2020	ESOE 4-1	08 AUG 2024				
ESNZ 4-1	15 JUN 2023	ESOE 4-3	15 JUN 2023				
ESNZ 4-3	02 DEC 2021						
ESNZ 4-5	08 DEC 2016						
ESNZ 4-7	08 NOV 2018						
ESNZ 4-8	08 DEC 2016						
ESNZ 4-9	08 DEC 2016						
ESNZ 4-11	08 NOV 2018						
ESNZ 4-12	08 DEC 2016						
ESNZ 4-13	08 DEC 2016						
ESNZ 4-15	08 DEC 2016						



## 1.7 Höjdmätarinställning

### 1 Allmänt

1.1 Tillämpade förfaranden för höjdmätarinställning stämmer överens med dem som anges i ICAO Doc 8168-OPS/611 och ICAO Doc 4444 PANS-ATM 4.10.1 med tillägg enligt 1.1.1 nedan.

1.1.1 Under stigning till en flyghöjd ovanför genomgångshöjden får luftfartygets aktuella flyghöjd uttryckas i flygnivå även under genomgångshöjden, om ingen höjdbegränsning uttryckt i höjd över havet (QNH) är meddelad eller förutsedd. Föraren skall dock på begäran kunna uttrycka sin flyghöjd i höjd över havet (QNH).

1.2 Uppgift om QNH för höjdmätarinställning innefattas i inflygningsklarering eller klarering att komma in i trafikvarvet samt i upplysningar till avgående luftfartyg, även om uppgiften ingår i ATIS-sändning.

1.3 Uppgift om QFE för höjdmätarinställning lämnas på begäran. Lämnat QFE-värde hänför sig till flygplatsens höjd över havet, utom för:

- a) precisionsinflygningsbana; eller
- b) annan instrumentbana, om tröskeln är belägen 7 ft eller mer under flygplatsens höjd över havet,

i vilka fall lämnat QFE-värde hänför sig till tillämplig tröskel.

### 2 Genomgångshöjd och genomgångsnivå

2.1 Om inte annat angetts ska genomgångshöjden vara den högsta av 5000 ft AMSL eller 3000 ft AGL. Skulle meddelad genomgångshöjd skilja sig från den högsta av 5000 ft AMSL eller 3000 ft AGL, ska den genomgångshöjd som meddelats användas.

Genomgångshöjden anges på berörda VAC och IAC-kort.

2.2 Vid flygning över eller under ett luftrum med meddelad genomgångshöjd (exempelvis TMA eller TIA) ska genomgångshöjden i det luftrummet användas.

2.3 Uppgift om genomgångsnivå innefattas i inflygningsklarering eller klarering att sjunka till flyghöjd på eller under genomgångshöjden. Uppgiften skall kvitteras genom mottäring.

## 1.7 Altimeter setting procedures

### 1 General

1.1 The Altimeter Setting Procedures in use conform to those contained in ICAO Doc 8168-OPS/611 and ICAO Doc 4444 PANS-ATM 4.10.1 with the addition shown in 1.1.1 below.

1.1.1 When climbing to a level above the transition altitude, the vertical position of the aircraft may be expressed in terms of flight levels also at and below the transition altitude provided that no level restriction expressed in terms of altitude (QNH) is indicated or anticipated. The pilot shall, however, be able to report the vertical position of the aircraft in terms of altitude (QNH) when so requested.

1.2 A QNH altimeter setting will be included in approach clearances or clearances to enter the traffic circuit and in the information provided to departing aircraft, also when included in an ATIS broadcast.

1.3 A QFE altimeter setting will be provided on request. The QFE value given relates to the aerodrome elevation except for:

- a) precision approach runways; and
- b) other instrument runways, if the threshold is 7 ft or more below the aerodrome elevation,

in which cases the QFE for the relevant threshold will be provided.

### 2 Transition altitude and transition level

2.1 Unless stated otherwise, the transition altitude shall be the highest of 5000 ft AMSL or 3000 ft AGL. Should a communicated transition altitude differ from the highest of 5000 ft AMSL or 3000 ft AGL, the communicated transition altitude shall be used.

The transition altitude is shown on the VAC and IAC charts.

2.2 When flying above or below an airspace with a communicated transition altitude (for example TMA or TIA) the transition altitude of that airspace shall be used.

2.3 The transition level will be provided in approach clearances and in clearances to descend to a level at or below the transition altitude. The transition level shall be acknowledged by read-back.

**3 Marschhöjder**

3.1 Piloter ska ta hänsyn till lokalt lufttryck när man använder en flygnivå nära till genomgångshöjden och säkerställa att den valda flyghöjden är lämplig. Det är befälhavarens ansvar att säkerställa att en vald marschhöjd är lämplig.

3.2 Vid VFR-flygning bör vald flygnivå ligga minst 500 ft över genomgångshöjden. Omställning av höjdmätarinställning till QNH/QFE-inställning utanför CTR, TMA, TIZ och TIA, rekommenderas att ske på flygnivå enligt tabeller nedan:

QNH (hPa)	Flygnivå för omställning till QNH/QFE-inställning vid genomgångshöjd 5000 ft	Flight level for change to QNH/QFE setting at transition altitude 5000 ft	Erforderlig korrigerig vid genomgångshöjder över 5000 ft	Required correction at transition altitudes above 5000 ft
≥ 1032		FL50		+0 ft
1014-1031		FL55		+500 ft
996-1013		FL60		+1000 ft
978-995		FL65		+1500 ft
960-977		FL70		+2000 ft
943-959		FL75		+2500 ft
≤ 942		FL80		+3000 ft

3.3 Vid IFR-flygning bör vald flygnivå ligga minst 1000 ft över genomgångshöjden. Omställning av höjdmätarinställning till QNH/QFE-inställning utanför CTR, TMA, TIZ och TIA, rekommenderas att ske på flygnivå enligt tabeller nedan:

**3 Cruising levels**

3.1 Pilots shall consider local air pressure when using a flight level close to the transition altitude and ensure that the selected level is suitable. It is the pilot in command's responsibility to ensure that a selected cruising level is suitable.

3.2 During VFR-flight the selected flight level should be at least 500 ft above the transition altitude. Change of the altimeter setting to QNH/QFE-setting outside of CTR, TMA, TIZ and TIA is recommended to take place at a flight level according to the table below:

3.3 During IFR-flight the selected flight level should be at least 1000 ft above the transition altitude. Change of the altimeter setting to QNH/QFE-setting outside of CTR, TMA, TIZ and TIA is recommended to take place at a flight level according to the table below:

QNH (hPa)	Flygnivå för omställning till QNH/QFE-inställning vid genomgångshöjd 5000 ft	Flight level for change to QNH/QFE setting at transition altitude 5000 ft	Erforderlig korrigerig vid genomgångshöjder över 5000 ft	Required correction at transition altitudes above 5000 ft
≥ 1051		FL50		+0 ft
1032-1050		FL55		+500 ft
1014-1031		FL60		+1000 ft
996-1013		FL65		+1500 ft
978-995		FL70		+2000 ft
960-977		FL75		+2500 ft
943-959		FL80		+3000 ft
≤ 942		FL85		+3500 ft

RNAV ROUTES							
RNAV 5 represents a navigation accuracy of $\pm 5$ 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	
<b>M852</b> (RNAV 5)	$\Delta$ VADIN FIR BDRY 570816.0N 0113838.0E	NIL	_____	FL 285 / FL 095 Class C	↓	↑	For continuation, see AIP Denmark. Eastbound AVBL above FL245 only.
	$\Delta$ GIXUN 572516N 0115209E	NIL	_____	FL 285 / FL 095 Class C	↓	↑	Eastbound AVBL above FL245 only.
	$\Delta$ ELBUX 573318.6N 0115836.7E	NIL	_____	FL 285 / FL 095 Class C	↓	↑	
	$\Delta$ LALIL 574625N 0121038E	NIL	_____	FL 285 / FL 095 Class C	↓	↑	
	$\Delta$ NEGIL 581504.8N 0123731.2E	NIL	_____	FL 660 / FL 095 Class C	↓	↑	OGIRO: Entry/exit point for traffic from/to ESOK.
	$\Delta$ OGIRO 584614N 0130740E	NIL	_____	FL 285 / FL 095 Class C	↓	↑	OGIRO: Entry/exit point for traffic from/to ESOK. LEGPO: Entry/exit point for traffic from/to ESSD.
	$\Delta$ LEGPO 600246N 0142618E	NIL	_____	FL 285 / FL 095 Class C	↓	↑	LEGPO: Entry/exit point for traffic from/to ESSD.
	$\Delta$ DEGED 620601N 0164844E	NIL	_____	FL 285 / FL 095 Class C	↓	↑	GAJPA: Entry/exit point for traffic from/to ESNU.
	$\Delta$ GAJPA 630013.5N 0180104.9E	NIL	_____	FL 285 / FL 095 Class C	↓	↑	GAJPA: Entry/exit point for traffic from/to ESNU.
	$\Delta$ RASEN 634843N 0190551E	NIL	_____	FL 285 / FL 095 Class C	↓	↑	
	$\Delta$ MOTIG 635548N 0191604E	NIL	_____	FL 285 / FL 095 Class C	↓	↑	
	$\Delta$ AMPAD 641856N 0195004E	NIL	_____	FL 285 / FL 095 Class C	↓	↑	TIMOB: Exit point for traffic on RNAV STAR to ESPA
	$\Delta$ TIMOB 650411.4N 0210005.1E	NIL	_____	FL 285 / FL 095 Class C	↓	↑	TIMOB: Exit point for traffic on RNAV STAR to ESPA
	$\Delta$ RISEM 651308.6N 0211431.6E	NIL	_____	FL 285 / FL 095 Class C	↓	↑	
	$\Delta$ BESLA 655127.1N 0221836.9E	NIL	_____	FL 285 / FL 095 Class C	↓	↑	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	
<b>M864</b> (RNAV 5)	△ ASKEB 662422N 0231658E	NIL	24.6	FL 285 / FL 095 Class C	↓	↑	CDR1 H24
	△ PERKE FIR BDRY 664407N 0235332E	NIL					For continuation, see AIP Finland.
	△ NINTA FIR BDRY 561344N 0181708E	NIL	10.7	FL 285 / FL 095 Class C	↑	↓	For continuation, see AIP Lithuania.
	△ DIPEB 561057N 0175835E	NIL	40.6	FL 285 / FL 095 Class C	↑	↓	
	△ KOLJA 560000N 0164853E	NIL	51.0	FL 285 / FL 095 Class C	↑	↓	
	△ ETRUS 552824N 0153805E	NIL	48.9	FL 285 / FL 095 Class C		↓	To avoid ES D138 TEMPO radar vectoring on ATC instruction. Route extension: 3 NM
	△ GIROR 550336N 0142424E	NIL	16.6	FL 285 / FL 095 Class C		↓	
	△ UNGAV FIR BDRY 545500N 0135941E	NIL					For continuation, see AIP Germany.
<b>M865</b> (RNAV 5)	△ RØNNE VOR ROE 550356.08N 0144531.29E	NIL	61.3	FL 285 / FL 095 Class C	↓	↑	
	△ LARMA FIR BDRY 551628N 0163006E	NIL					For continuation, see AIP Poland.
<b>M990</b> (RNAV 5)	△ KOLJA 560000N 0164853E	NIL	30.2	FL 285 / FL 245 Class C	↓	↑	
	△ GISON FIR BDRY 555554N 0174206E	NIL					For continuation, see AIP Russia.

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
<b>Z490</b> (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				
<b>Z491</b> (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 544910N 0143351E	NIL				For continuation, see AIP Poland.
<b>Z493</b> (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				
<b>Z540</b> (RNAV 5)	△ NEKLA 590000.0N 0191549.1E	NIL	25.4	FL 660 / FL 095 Class C	↑	↓
	△ ALOLA 591536N 0183706E	NIL				
<b>Z702</b> (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				
<b>Z703</b> (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.
<b>Z731</b> (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				



## Globalt Satellitnavigeringssystem / Global Navigation Satellite System (GNSS)

Name of GNSS element	Frequency	Coordinates	Remarks
		<u>Nominal SVC area</u> Coverage Area	
1	2	3	4
EGNOS	1575.42 MHz	SWEDEN FIR Performance decreasing north of latitude N60	En-route, terminal and approach procedures. Operated by: ESSP (European Satellite Service Provider) SAS
GPS	1 575.42 MHz 1 227.6 MHz	SWEDEN FIR	En-route, terminal and non- precision approaches (NPA). Operated by US Space Force.
GNS-B	108-136.975 MHz	Up to 200 NM from Ground Station (line-of-sight)	GNSS Augmentation Broadcast (ref EUROCAE ED-108A)





## 2.4 Restriktionsområden utfärdade av Transportstyrelsen

2.4.1 Inom områdena ES R24, R102, R105, R106, R107, R108, R109, R110, R111, 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 Försvarmakten, 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 Polismyndigheten, Säkerhetspolisen, Kustbevakningen, Sjöfartsverket, Lantmäteriet, Tullverket, relevant Länsstyrelse, ambulanstransport med hög medicinsk prioritet, eller med luftfartyg när de används i räddningsinsatser enligt bestämmelserna i lagen om skydd mot olyckor (2003:778) eller för renskötsel enligt Rennäringslag (1971:437).

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

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

## 2.4 Restricted areas established by the Swedish Transport Agency

2.4.1 Flight within areas ES R24, R102, R105, R106, R107, R108, R109, R110, R111, 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 local Police Department, Swedish Security Service, Swedish Coast Guard, Swedish Maritime Administration, National Land Survey Office, Swedish Customs Administration, relevant County Administrative Board, ambulance transport with high medical priority, or by aircraft engaged in rescue operations in accordance with Civil Protection Act (2003:778) or for reindeer husbandry according to the Reindeer Husbandry Act (1971:437).

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

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 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.
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.

<b>Restricted areas</b>			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
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.
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.

<b>Restricted areas</b>			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
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.
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.

Danger areas			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
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.
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.

<b>Danger areas</b>			
Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
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.
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.



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	16198	VÄSTRA FRÖLUNDA KA	573849.8N 0115533.1E	328	345	unknown	Mast
	16199	RÖDJAN	574134.0N 0115327.9E	328	368	unknown	Chimney
	16203	ÄLVSBOGFSFJORDEN	574118.1N 0115120.4E	394	393	F R	Crane
	16204	ÄLVSBOGFSFJORDEN	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/BRUDAREMOSSEN	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 BRATTÅS	574554.7N 0120407.8E	371	698	F R	Mast
	1659	KINNA	573004.0N 0123514.6E	348	826	F R	Mast
	1700	BORÅS	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/BRUDAREMOSSEN	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	LÅNGÅS	570034.0N 0122629.6E	492	558	FLG R	Wind turbine
	9223	LÅNGÅS	570028.4N 0122650.2E	492	558	FLG R	Wind turbine
	9224	LÅNGÅS	570022.8N 0122710.8E	492	561	FLG R	Wind turbine
	9225	LÅNGÅS	570017.2N 0122731.2E	492	543	FLG R	Wind turbine
	9226	LÅNGÅS	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	FJÄRÅS KYRKBY	572458.3N 0121355.6E	476	846	FLG R	Wind turbine
	10595	FJÄRÅS KYRKBY	572502.4N 0121420.8E	476	853	FLG R	Wind turbine
	10596	FJÄRÅS KYRKBY	572524.9N 0121441.5E	476	820	FLG R	Wind turbine
	10597	FJÄRÅS 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	BRÅTAGÅRDE	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
11688	FRILLESÅS	572001.3N 0121200.2E	456	587	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
	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	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
	13090	GRIMSÅS	572756.0N 0133307.4E	607	1407	F R	Wind turbine
	13091	GRIMSÅS	572808.9N 0133314.0E	607	1381	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
	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
	11463	EKENÄSSJÖN	572910.7N 0145711.6E	492	1483	FLG R	Wind turbine
	11464	EKENÄSSJÖN	572918.3N 0145740.6E	492	1455	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
	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	MÄRTENSTORP	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
	17302	BAKAREMÅLEN	575604.7N 0145805.6E	492	1422	unknown	Wind turbine
	17303	BAKAREMÅLEN	575555.5N 0145827.1E	492	1436	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	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	
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	

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	15514	GREVEKULLA	574313.6N 0151531.7E	656	1555	F R	Wind turbine
	15515	GREVEKULLA	574302.1N 0151559.8E	656	1578	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
	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
	14607	FLISERYD	570614.2N 0161820.4E	656	790	FLG W	Wind turbine
	14608	FLISERYD	570639.8N 0161853.7E	656	779	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
	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
	3969	SMÖJEN	574359.9N 0185632.1E (*)	328	361	F R	Wind turbine
	3970	SMÖJEN	574351.5N 0185640.5E (*)	328	344	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
	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
	180	SVANESUND/ORUST	581128.1N 0114803.8E	417	704	F R	Mast
	181	LYSEKIL	582044.0N 0112520.1E	459	542	F R	Chimney

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	10224	TÖFTEDAL	585055.4N 0115102.6E	492	1109	FLG R	Wind turbine
	10225	TÖFTEDAL	585120.1N 0115106.7E	492	1112	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
	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	TANUMSHEDA	584542.7N 0112449.0E	492	948	FLG R	Wind turbine
	11879	TANUMSHEDA	584551.9N 0112512.1E	492	978	FLG R	Wind turbine
	11880	TANUMSHEDA	584609.2N 0112524.8E	492	1021	FLG R	Wind turbine
	11881	TANUMSHEDA	584621.8N 0112550.1E	492	1039	FLG R	Wind turbine
	11882	TANUMSHEDA	584608.6N 0112607.3E	492	1017	FLG R	Wind turbine
	11883	TANUMSHEDA	584552.7N 0112610.7E	492	1043	FLG R	Wind turbine
	11884	TANUMSHEDA	584536.9N 0112616.9E	492	1007	FLG R	Wind turbine
	11885	TANUMSHEDA	584529.6N 0112550.5E	492	984	FLG R	Wind turbine
	11886	TANUMSHEDA	584613.9N 0112631.3E	492	1066	FLG R	Wind turbine
	11887	TANUMSHEDA	584602.8N 0112654.2E	492	1071	FLG R	Wind turbine
	11888	TANUMSHEDA	584547.2N 0112648.3E	492	1013	FLG R	Wind turbine
	11989	TANUMSHEDA	584647.2N 0112344.5E	476	928	FLG R	Wind turbine
	11990	TANUMSHEDA	584659.7N 0112332.3E	476	928	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
	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	VÄRGÅRDA	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
	8671	BOLSTAD	583716.0N 0123142.8E	328	501	F R	Wind turbine
	8672	GRINSTAD	583718.3N 0123158.9E	328	500	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
	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	GRÅSTORP	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	GRÅSTORP	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	GRÅSTORP	581738.1N 0124636.6E	459	709	FLG R	Wind turbine
	10505	GRÅSTORP	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
	13132	RÄNSLIDEN	584951.2N 0121855.0E	656	1260	FLG W	Wind turbine
	13133	RÄNSLIDEN	585030.9N 0121827.3E	656	1319	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
	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
	8622	N VÅNGA	581550.1N 0131519.1E (*)	328	659	FLG R	Wind turbine
	8668	KVÄNUM	581814.4N 0130828.1E (*)	459	719	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
	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	KVÄNUM	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	ESKILSÄTER	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	KVÄNUM	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	SKÅNINGS-ÅSAKA	582544.8N 0132916.2E (*)	456	840	FLG R	Wind turbine
	9797	SKÅNINGS-ÅSAKA	582554.6N 0132938.5E (*)	456	850	FLG R	Wind turbine
	9798	SKÅNINGS-ÅSAKA	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	TRÄVAD	581441.5N 0130332.8E (*)	492	774	FLG R	Wind turbine
	10099	TRÄVAD	581354.4N 0130347.9E (*)	492	781	FLG R	Wind turbine
	10100	TRÄVAD	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
	10258	SKARA	582323.9N 0132302.6E (*)	489	843	FLG R	Wind turbine
	10259	SKARA	582336.4N 0132300.7E (*)	489	846	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
	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	ARNÅS	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	TORKESTORP	582140.6N 0131315.5E (*)	456	735	FLG R	Wind turbine
	11379	TORKESTORP	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	VÄMB	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
	7606	DJURSÅTRA	582025.3N 0140410.9E	331	746	F R	Wind turbine
	7670	VÄRSÅS	582216.3N 0140725.9E	331	725	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
	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	581957.9N 0145441.7E (*)	328	656	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	SÄTRA	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 (*)	387	745	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
	11819	VÄSTANSJÖ	585211.0N 0142839.2E (*)	476	1145	FLG R	Wind turbine
	11820	VÄSTANSJÖ	585151.3N 0142839.9E (*)	476	1070	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
	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
	14510	HÖKENSÅS	581415.7N 0140907.6E	459	1200	F R	Mast
	14962	VADSTENA	582323.8N 0144352.6E	492	814	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
58N 15E	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	583246.3N 0150232.7E	410	822	-	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	328	935	F R	Mast
	1155	TJÄLLMO	584541.3N 0152229.6E	338	797	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 0150241.2E	410	829	-	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	583109.7N 0151402.1E (*)	459	735	FLG R	Wind turbine
	9007	ÖSTERSTAD	583102.0N 0151422.0E (*)	459	745	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 0151147.6E (*)	492	968	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	582029.4N 0150204.4E (*)	459	804	FLG R	Wind turbine	
10281	HOGSTAD	582046.1N 0150213.0E (*)	459	787	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	
10313	VINNERSTAD	583036.3N 0150717.9E (*)	328	630	FLG R	Wind turbine	
10376	ÅSBO	581535.9N 0150707.4E (*)	492	1063	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
	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	582549.4N 0152039.7E (*)	492	722	FLG R	Wind turbine
	10765	VÄSTERLÖSA	582603.5N 0152026.4E (*)	492	722	FLG R	Wind turbine
	11301	SÄNNA	584811.2N 0150017.3E (*)	328	879	F R	Mast
	11533	GULLMOSSEN	582859.7N 0151045.5E (*)	490	832	FLG R	Wind turbine
	11534	GULLMOSSEN	582915.6N 0151016.8E (*)	490	835	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	584845.4N 0150037.7E (*)	476	994	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	584622.3N 0150545.5E (*)	591	1283	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	584616.5N 0152019.7E	607	1165	FLG W	Wind turbine
58N 16E	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

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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	NORRKÖPING	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
	14038	NYNÄSHAMN	585610.6N 0175847.7E	408	420	F R	Crane
59N 11E	246	TÖCKSFORS	593516.8N 0114912.8E	400	998	F R	Mast
	248	SVINESUND	590513.7N 0111529.2E	341	644	F R	Mast
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	ÄRJÄNG	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
	9512	HOLMERUD	592538.1N 0120205.2E (*)	328	1132	F R	Mast
	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	ÄRJÄNG	592523.6N 0120235.2E (*)	591	1394	FLG W	Wind turbine
	11929	ÄRJÄNG	592546.3N 0120127.8E (*)	591	1394	FLG W	Wind turbine
	11930	ÄRJÄNG	592549.1N 0120158.0E (*)	591	1427	FLG W	Wind turbine
	11931	ÄRJÄNG	592534.6N 0120147.6E (*)	591	1394	FLG W	Wind turbine
	11932	ÄRJÄNG	592536.1N 0120215.1E (*)	591	1404	FLG W	Wind turbine
	11933	ÄRJÄNG	592509.9N 0120220.7E (*)	591	1417	FLG W	Wind turbine
	11934	ÄRJÄNG	592515.7N 0120154.8E (*)	591	1444	FLG W	Wind turbine
	11935	ÄRJÄNG	592520.7N 0120122.0E (*)	591	1381	FLG W	Wind turbine
	11936	ÄRJÄNG	592532.1N 0120101.6E (*)	591	1342	FLG W	Wind turbine
	11967	ÄRJÄNG	592208.0N 0120334.4E (*)	591	1394	FLG W	Wind turbine
	11968	ÄRJÄNG	592200.1N 0120300.6E (*)	591	1407	FLG W	Wind turbine
	11970	ÄRJÄNG	592140.7N 0120231.3E (*)	591	1394	FLG W	Wind turbine
	11971	ÄRJÄNG	592140.3N 0120301.1E (*)	591	1411	FLG W	Wind turbine
	11972	ÄRJÄNG	592155.3N 0120221.6E (*)	591	1332	FLG W	Wind turbine
	11973	ÄRJÄNG	592125.5N 0120248.1E (*)	591	1394	FLG W	Wind turbine
	11974	ÄRJÄNG	592126.0N 0120320.5E (*)	591	1427	FLG W	Wind turbine
	11975	ÄRJÄNG	592141.5N 0120332.0E (*)	591	1411	FLG W	Wind turbine
	11976	ÄRJÄNG	592152.8N 0120348.3E (*)	591	1401	FLG W	Wind turbine
	11977	ÄRJÄNG	592134.5N 0120402.4E (*)	591	1362	FLG W	Wind turbine
	11978	ÄRJÄNG	592110.3N 0120325.2E (*)	591	1362	FLG W	Wind turbine
	11979	ÄRJÄNG	592107.8N 0120254.8E (*)	591	1335	FLG W	Wind turbine
	11980	ÄRJÄNG	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
	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

## 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 13E	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
	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	
15911	TJÄRGRAVMOSSEN	594127.5N 0130517.5E	404	1248	unknown	Mast	
59N 14E	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
	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	

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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

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	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
59N 17E	16967	JOHANNISBERG	593514.3N 0163044.6E	394	405	unknown	Chimney
	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
	310	OKNÖ	593134.4N 0170737.3E	354	400	F R	Pylon, power line
	319	STOCKHOLM/FITTJA	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.	



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	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	SPARRSÄTRA	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
	325	BROTTBY	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/HÖGDALEN	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	
59N 19E	346	TJÄRVEN	594407.6N 0192010.0E	354	378	F R	Mast
60N 12E	350	SYSSLEBÄCK	604243.6N 0125416.4E	400	1582	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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

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 15E	9116	GRÅNGESBERG	600744.6N 0145501.9E	492	1837	FLG R	Wind turbine
	9117	GRÅNGESBERG	600609.2N 0145513.4E	492	1965	FLG R	Wind turbine
	9118	GRÅNGESBERG	600725.9N 0145417.1E	492	1877	F R	Wind turbine
	9124	SÅLEN	604855.8N 0142411.1E	410	2053	FLG R	Wind turbine
	9125	SÅLEN	604838.8N 0142403.2E	410	2118	F R	Wind turbine
	9126	SÅLEN	604833.2N 0142428.2E	410	2176	F R	Wind turbine
	9127	SÅLEN	604824.0N 0142402.3E	410	2187	FLG R	Wind turbine
	9128	SÅLEN	604759.6N 0142411.7E	410	2263	FLG R	Wind turbine
	9129	SÅLEN	604748.6N 0142406.8E	410	2231	F R	Wind turbine
	9130	SÅLEN	604735.5N 0142359.2E	410	2332	F R	Wind turbine
	9131	SÅLEN	604725.0N 0142408.1E	410	2291	FLG R	Wind turbine
	13619	GRÅNGESBERG	600545.7N 0145326.9E	591	1936	F R	Wind turbine
	13620	GRÅNGESBERG	600541.7N 0145352.2E	591	1949	FLG W	Wind turbine
	16995	BADDOBERGET	600550.1N 0145259.1E	591	1913	unknown	Wind turbine
	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	
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	
60N 16E	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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	LÅNGSHYTTAN	603226.4N 0160557.1E	656	1642	FLG W	Wind turbine
	14864	LÅNGSHYTTAN	603226.4N 0160507.1E	656	1636	FLG W	Wind turbine
	14865	LÅNGSHYTTAN	603227.9N 0160430.4E	656	1593	F R	Wind turbine
	14866	LÅNGSHYTTAN	603219.4N 0160320.7E	656	1681	FLG W	Wind turbine
	14867	LÅNGSHYTTAN	603209.7N 0160510.3E	656	1599	F R	Wind turbine
	14868	LÅNGSHYTTAN	603202.7N 0160436.5E	656	1603	F R	Wind turbine
	14869	LÅNGSHYTTAN	603151.9N 0160455.3E	656	1659	FLG W	Wind turbine
	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

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 17E	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
	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/SLÅSBY	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
	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	
61N 13E	12377	FORSMARK	602430.8N 0180951.0E	335	350	F R	Mast
	407	TRANSTRAND	610307.9N 0131812.2E	361	2295	F R	Mast
	10046	BOSSSEL-ANDERSKITT	611245.6N 0135053.5E (*)	410	2467	FLG R	Wind turbine
	10047	BOSSSEL-ANDERSKITT	611231.3N 0135041.3E (*)	410	2500	FLG R	Wind turbine
	10048	BOSSSEL-ANDERSKITT	611233.1N 0135104.0E (*)	410	2480	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
	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	1060	3374	F R/FLG W	Mast
	412	KRÄCKELBÄCKEN	612934.0N 0141229.0E	335	2667	F R	Mast
	8663	BRICKAN	615520.1N 0141825.9E (*)	410	2690	F R	Wind turbine
	11553	SKAFTÅSEN	614534.3N 0142722.4E (*)	459	2608	F R	Mast
	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



Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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
	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
61N 15E	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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	MICKELSTRÄNNAN	614116.1N 0152432.4E	335	1856	unknown	Mast
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	VACKERDALSBERGET	610357.9N 0163414.6E	476	1575	FLG R	Wind turbine
	10417	VACKERDALSBERGET	610352.9N 0163501.9E	476	1549	FLG R	Wind turbine
	10418	VACKERDALSBERGET	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

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	13255	SÖDERVALLSÄSEN	613603.2N 0160608.4E	492	1818	FLG R	Wind turbine
	13256	SÖDERVALLSÄSEN	613528.3N 0160421.6E	492	2001	FLG R	Wind turbine
	13257	SÖDERVALLSÄSEN	613548.8N 0160604.8E	492	1886	FLG R	Wind turbine
	13258	SÖDERVALLSÄSEN	613521.1N 0160500.8E	492	1969	FLG R	Wind turbine
	13259	SÖDERVALLSÄSEN	613550.6N 0160645.5E	492	1821	FLG R	Wind turbine
	13260	SÖDERVALLSÄSEN	613604.1N 0160726.4E	492	1808	FLG R	Wind turbine
	13262	SÖDERVALLSÄSEN	613521.7N 0160606.0E	492	1903	FLG R	Wind turbine
	13263	SÖDERVALLSÄSEN	613534.5N 0160640.0E	492	1831	FLG R	Wind turbine
	13264	SÖDERVALLSÄSEN	613532.5N 0160723.3E	492	1893	FLG R	Wind turbine
	13265	SÖDERVALLSÄSEN	613547.9N 0160753.4E	492	1768	FLG R	Wind turbine
	13266	SÖDERVALLSÄSEN	613455.3N 0160524.7E	492	1837	FLG R	Wind turbine
	13267	SÖDERVALLSÄSEN	613506.1N 0160612.6E	492	1890	FLG R	Wind turbine
	13268	SÖDERVALLSÄSEN	613516.4N 0160650.6E	492	1795	FLG R	Wind turbine
	13269	SÖDERVALLSÄSEN	613518.1N 0160814.7E	492	1798	FLG R	Wind turbine
	13270	SÖDERVALLSÄSEN	613509.5N 0160953.6E	492	1709	FLG R	Wind turbine
	13271	SÖDERVALLSÄSEN	613504.2N 0161016.5E	492	1722	FLG R	Wind turbine
	13272	SÖDERVALLSÄSEN	613451.3N 0161016.4E	492	1745	FLG R	Wind turbine
	13273	SÖDERVALLSÄSEN	613435.2N 0160516.7E	492	2054	FLG R	Wind turbine
	13274	SÖDERVALLSÄSEN	613432.0N 0160443.9E	492	1985	FLG R	Wind turbine
	13275	SÖDERVALLSÄSEN	613424.9N 0160501.7E	492	2077	FLG R	Wind turbine
	13276	SÖDERVALLSÄSEN	613418.4N 0160527.4E	492	2011	FLG R	Wind turbine
	13277	SÖDERVALLSÄSEN	613433.2N 0160602.8E	492	1909	FLG R	Wind turbine
	13278	SÖDERVALLSÄSEN	613409.2N 0160658.1E	492	1909	FLG R	Wind turbine
	13279	SÖDERVALLSÄSEN	613403.9N 0160719.7E	492	1837	FLG R	Wind turbine
	13280	SÖDERVALLSÄSEN	613340.7N 0160727.6E	492	1804	FLG R	Wind turbine
	13281	SÖDERVALLSÄSEN	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	ÄMOT	610514.8N 0162333.8E	591	1696	FLG W	Wind turbine
	13775	ÄMOT	610511.8N 0162414.5E	591	1778	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
	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
	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

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 12E	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
	429	FUNÄSDALEN/FUNÄSDALSBERGET	623317.1N 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
	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
62N 13E	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	11355	RÄTAN	622711.7N 0144316.3E	587	2418	FLG W	Wind turbine
	11356	RÄTAN	622706.2N 0144406.4E	587	2451	FLG W	Wind turbine
	11357	RÄTAN	622722.6N 0144416.9E	587	2451	FLG W	Wind turbine
	11358	RÄTAN	622744.4N 0144402.9E	587	2323	FLG W	Wind turbine
	11359	RÄTAN	622754.0N 0144315.1E	587	2234	FLG W	Wind turbine
	11360	RÄTAN	622554.9N 0144510.6E	587	2346	FLG W	Wind turbine
	11361	RÄTAN	622536.6N 0144509.8E	587	2402	FLG W	Wind turbine
	11362	RÄTAN	622543.4N 0144425.4E	587	2425	FLG W	Wind turbine
	11363	RÄTAN	622603.6N 0144401.6E	587	2349	FLG W	Wind turbine
	11364	RÄTAN	622553.6N 0144248.6E	587	2372	FLG W	Wind turbine
	11365	RÄTAN	622532.4N 0144304.5E	587	2372	FLG W	Wind turbine
	11366	RÄTAN	622539.5N 0144216.0E	587	2408	FLG W	Wind turbine
	11367	RÄTAN	622535.0N 0144057.4E	587	2385	FLG W	Wind turbine
	11368	RÄTAN	622549.5N 0144027.9E	587	2421	FLG W	Wind turbine
	11369	RÄTAN	622533.0N 0144011.1E	587	2421	FLG W	Wind turbine
	11370	RÄTAN	622511.6N 0144016.4E	587	2425	FLG W	Wind turbine
	11371	RÄTAN	622604.6N 0143958.4E	587	2343	FLG W	Wind turbine
	11372	RÄTAN	622548.1N 0143925.5E	587	2418	FLG W	Wind turbine
	11373	RÄTAN	622525.3N 0143905.6E	587	2316	FLG W	Wind turbine
	11374	RÄTAN	622609.1N 0143825.5E	587	2290	FLG W	Wind turbine
	11656	RÄTANS-DIGERBERGET	623050.5N 0143808.5E	476	2131	FLG R	Wind turbine
	11658	RÄTANS-DIGERBERGET	623033.6N 0143849.1E	476	2116	FLG W	Wind turbine
	11659	RÄTANS-DIGERBERGET	623019.2N 0143818.8E	459	2110	FLG W	Wind turbine
	11660	RÄTANS-DIGERBERGET	623032.7N 0143936.0E	476	2054	FLG W	Wind turbine
	13623	RÄTAN	623434.0N 0145522.6E	722	2395	FLG W	Wind turbine
	13624	RÄTAN	623411.4N 0145517.0E	722	2421	F R	Wind turbine
	13625	RÄTAN	623417.4N 0145600.6E	722	2421	F R	Wind turbine
	13626	RÄTAN	623401.8N 0145615.2E	722	2425	FLG W	Wind turbine
	13627	RÄTAN	623356.5N 0145532.0E	722	2503	F R	Wind turbine
	13631	RÄTAN	623342.0N 0145511.1E	722	2434	FLG W	Wind turbine
	13632	RÄTAN	623326.1N 0145528.9E	722	2457	F R	Wind turbine
	13633	RÄTAN	623333.8N 0145604.3E	722	2510	F R	Wind turbine
	13634	RÄTAN	623326.6N 0145641.2E	722	2507	F R	Wind turbine
	13635	RÄTAN	623310.0N 0145656.8E	722	2441	FLG W	Wind turbine
	13728	RÄTAN	623308.4N 0145550.2E	722	2461	F R	Wind turbine
	13729	RÄTAN	623253.7N 0145531.6E	722	2405	FLG W	Wind turbine
	13730	RÄTAN	623252.8N 0145619.1E	722	2438	F R	Wind turbine
	13731	RÄTAN	623252.9N 0145659.2E	722	2408	F R	Wind turbine
	13732	RÄTAN	623222.9N 0145611.7E	722	2405	F R	Wind turbine
	13733	RÄTAN	623223.7N 0145700.0E	722	2438	F R	Wind turbine
	13734	RÄTAN	623146.9N 0145724.2E	722	2382	FLG W	Wind turbine
	13735	RÄTAN	623154.6N 0145639.7E	722	2359	F R	Wind turbine
	13736	RÄTAN	623139.3N 0145650.7E	722	2372	FLG W	Wind turbine
	13737	RÄTAN	623115.6N 0145721.6E	722	2349	FLG W	Wind turbine
	13974	ALBY	623034.2N 0145957.7E	722	2270	FLG W	Wind turbine
	16191	RÄTANSBYN	623037.7N 0143751.8E	456	2135	FLG R	Wind turbine
62N 15E	438	ÄNGE	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

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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
	14422	RAMSJÖ	621500.6N 0153628.6E	459	1765	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



Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	15474	ÅNGE	621936.8N 0154612.8E	722	2146	FLG W	Wind turbine
	15475	ÅNGE	622530.4N 0154624.9E	722	2287	F R	Wind turbine
	15476	ÅNGE	622001.5N 0154258.8E	722	2126	F R	Wind turbine
	15477	ÅNGE	622404.1N 0154500.1E	722	2365	F R	Wind turbine
	15478	ÅNGE	622355.1N 0154651.0E	722	2205	FLG W	Wind turbine
	15479	ÅNGE	622056.5N 0154639.7E	722	2087	F R	Wind turbine
	15480	ÅNGE	622249.1N 0154649.9E	722	2306	F R	Wind turbine
	15481	ÅNGE	622246.4N 0154809.7E	722	2198	FLG W	Wind turbine
	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
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
	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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	TIMRÅ	624336.8N 0165943.8E	656	1795	F R	Wind turbine
	15712	TIMRÅ	624349.3N 0165837.9E	656	1923	FLG W	Wind turbine
	15713	TIMRÅ	624319.7N 0165930.9E	656	1972	F R	Wind turbine
	15714	TIMRÅ	624322.0N 0165823.5E	656	1988	FLG W	Wind turbine
	15716	TIMRÅ	624256.7N 0165928.3E	656	1988	FLG W	Wind turbine
	15730	TIMRÅ	624600.0N 0165938.2E	656	1903	FLG W	Wind turbine
	15731	TIMRÅ	624621.8N 0165854.4E	656	1900	F R	Wind turbine
	15732	TIMRÅ	624635.8N 0165809.6E	656	1972	FLG W	Wind turbine
	15733	TIMRÅ	624623.3N 0165941.5E	682	1903	F R	Wind turbine
	15735	TIMRÅ	624659.0N 0165958.2E	682	1909	F R	Wind turbine
	15736	TIMRÅ	624716.5N 0165912.9E	656	1883	FLG W	Wind turbine
	15737	TIMRÅ	624833.6N 0165958.4E	656	1896	FLG W	Wind turbine
	15746	TIMRÅ	624936.2N 0165944.8E	682	1870	FLG W	Wind turbine
	15747	TIMRÅ	624956.0N 0165939.2E	682	1985	F R	Wind turbine
	15748	TIMRÅ	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	TIMRÅ/SODAHUSSKORSTEN	622827.3N 0171945.3E	377	404	-	Chimney
	1607	TIMRÅ/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/TIMRÅ	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
	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more								
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles	
63N 15E	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	633808.6N 0143014.3E (*)	394	1893	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	
		484	STRÖMSUND	635151.6N 0153634.5E	653	1966	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
		9552	BRÄNNKULLEN	632915.3N 0155833.1E (*)	328	2001	F R	Mast
		9596	STORHÖGEN	632255.5N 0150818.7E (*)	328	1969	F R	Mast
		10296	RAFTSJÖHÖJDEN	633638.1N 0150215.3E (*)	456	2146	FLG R	Wind turbine
		10297	RAFTSJÖHÖJDEN	633631.5N 0150244.6E (*)	456	2198	FLG R	Wind turbine
		10298	RAFTSJÖHÖJDEN	633651.9N 0150229.7E (*)	456	2106	FLG R	Wind turbine
		10299	RAFTSJÖHÖJDEN	633650.4N 0150305.7E (*)	456	2113	FLG R	Wind turbine
		10300	RAFTSJÖHÖJDEN	633644.9N 0150405.7E (*)	456	2113	FLG R	Wind turbine
		10301	RAFTSJÖHÖJDEN	633646.8N 0150438.9E (*)	456	2113	FLG R	Wind turbine
		10302	NYBODARNA	632749.8N 0150858.7E (*)	328	1870	F R	Mast
		10303	FYRINGSKÄLEN	633151.7N 0150611.5E (*)	328	2057	F R	Mast
		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	

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	11010	STAMÅSEN	633942.3N 0155030.4E (*)	564	1909	F R	Wind turbine
	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	633125.4N 0155547.9E (*)	367	1739	F R	Mast
	11595	FULLSJÖN	633015.2N 0155620.4E (*)	367	1854	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	KÄLARNE	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



Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13662	HAMMERDAL	633217.6N 0150616.8E (*)	591	2224	F R	Wind turbine
	13663	HAMMERDAL	633202.7N 0150457.7E (*)	591	2228	F R	Wind turbine
	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13724	HAMMERDAL	632805.4N 0150955.4E (*)	591	2119	F R	Wind turbine
	13725	HAMMERDAL	632757.5N 0150911.2E (*)	591	2146	F R	Wind turbine
	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
	9878	LILL-VILLFLON	632405.8N 0160049.3E (*)	328	2057	F R	Mast
	10136	KÄRMSJÖHÖJDEN	635224.8N 0164351.6E (*)	328	1814	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
	11565	RENSJÖN	632749.6N 0160607.9E (*)	367	1909	F R	Mast
	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

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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	KRÅNGEDE	630621.6N 0160317.6E	328	1867	F R	Mast
	13298	IMFORS	633244.9N 0163718.9E (*)	427	1594	F R	Mast
	13299	NÄSAKER	632359.0N 0164644.3E (*)	427	1555	F R	Mast
	13366	RAMSELE	633108.2N 0163454.6E (*)	427	1811	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	632423.1N 0160026.8E	722	2349	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 0160420.8E	753	2111	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	632811.2N 0160413.3E	753	2098	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

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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
	9437	STORBERGET	635644.5N 0172836.5E (*)	394	1909	F R	Mast
	10454	TANNFLOHÖJDEN	632826.6N 0170840.8E (*)	394	2021	F R	Mast
	10455	VITBERGSHÖJDEN	632738.7N 0171701.4E (*)	394	1808	F R	Mast
	10456	BRÄNNAN	633020.0N 0172146.2E (*)	394	1601	F R	Mast
	10457	STORSJÖHÖJDEN	632203.0N 0172146.3E (*)	394	1752	F R	Mast
	10581	HOLMTRÅSK	635321.1N 0172537.6E (*)	394	2011	F R	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	10819	TRATTBERGET	634727.7N 0172323.1E (*)	492	2129	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	634750.7N 0172533.0E (*)	492	2103	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 0172237.3E (*)	492	2024	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
	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
	15027	BLACKFJÄLLET	635341.0N 0175810.7E	656	1897	F R	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

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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
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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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	BRATTMYRLIDEN	633912.0N 0185846.6E (*)	656	1680	FLG W	Wind turbine
	14079	BRATTMYRLIDEN	633856.0N 0185928.2E (*)	656	1768	FLG W	Wind turbine
	14081	BRATTMYRLIDEN	633903.0N 0185806.0E (*)	656	1693	FLG W	Wind turbine
	14082	BRATTMYRLIDEN	633847.8N 0185900.6E (*)	656	1798	FLG W	Wind turbine
	14084	BRATTMYRLIDEN	633814.5N 0185942.6E (*)	656	1745	FLG W	Wind turbine
	14085	BRATTMYRLIDEN	633814.2N 0185754.7E (*)	656	1683	FLG W	Wind turbine
	14089	BRATTMYRLIDEN	633752.0N 0185913.6E (*)	656	1742	FLG W	Wind turbine
	14090	BRATTMYRLIDEN	633744.7N 0185821.8E (*)	656	1650	F R	Wind turbine
	14091	BRATTMYRLIDEN	633737.3N 0185755.0E (*)	656	1614	FLG W	Wind turbine
	14094	BRATTMYRLIDEN	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	ÅSBERGET	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



Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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

## 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 15E	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
	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
	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	URSÄSEN	640217.8N 0154009.5E (*)	476	2211	FLG R	Wind turbine
	9521	URSÄSEN	640206.7N 0153930.5E (*)	476	2231	FLG R	Wind turbine
	9522	URSÄSEN	640208.7N 0153952.4E (*)	476	2221	FLG R	Wind turbine
	9523	URSÄSEN	640231.0N 0153945.3E (*)	476	2208	FLG R	Wind turbine
	9524	URSÄSEN	640236.6N 0154016.1E (*)	476	2175	FLG R	Wind turbine
	9525	URSÄSEN	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	URSÄSEN	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	

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 16E	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	TÄSJÖ	641357.9N 0155608.1E (*)	963	3020	F R/FLG W	Mast
	11255	HEMBERGET	640553.6N 0163556.7E (*)	328	1877	F R	Mast
	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
	9151	STORBERGSKULLEN	641427.0N 0170507.8E (*)	328	2231	F R	Mast
	9995	LEDNINGSVALL	642717.4N 0175745.1E	407	2343	F R	Mast
	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	RISTRÅSK	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
64N 18E	14128	ÅSELE	641352.4N 0171402.6E (*)	492	2198	F R	Wind turbine
	14129	ÅSELE	641339.1N 0171415.9E (*)	492	2087	F R	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	

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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
64N 19E	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

## 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 20E	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
	541	SKELLEFTEÅ/PRÄSTFÅBOBERGET 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
	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	

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 21E	15094	BOLIDEN	645936.1N 0201949.1E	656	1814	FLG W	Wind turbine
	15095	BOLIDEN	645946.1N 0202030.7E	656	1755	FLG W	Wind turbine
	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
65N 15E	9731	ROBERTSFORS	641118.8N 0210043.3E	456	628	F R	Wind turbine
	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
	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	

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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



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 18E	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
	558	ARVIDSJAUR/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
	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	

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 19E	10987	ÅMLIDEN	650242.9N 0185937.6E	476	2070	FLG R	Wind turbine
	10988	ÅMLIDEN	650257.4N 0185953.5E	476	2070	FLG R	Wind turbine
	16990	ÅMLIDEN	650306.0N 0185917.3E	476	1928	unknown	Wind turbine
	10468	ÅMLIDEN	650240.2N 0190023.1E	335	2093	FLG R	Wind turbine
	10964	ÅMLIDEN	650353.4N 0190044.9E	476	1903	FLG R	Wind turbine
	10965	ÅMLIDEN	650357.8N 0190114.9E	476	1877	FLG R	Wind turbine
	10966	ÅMLIDEN	650403.1N 0190139.0E	476	1867	FLG R	Wind turbine
	10967	ÅMLIDEN	650415.4N 0190205.0E	476	1854	FLG R	Wind turbine
	10968	ÅMLIDEN	650425.9N 0190221.3E	476	1867	FLG R	Wind turbine
	10969	ÅMLIDEN	650353.4N 0190350.5E	476	1926	FLG R	Wind turbine
	10970	ÅMLIDEN	650312.3N 0190236.0E	476	1962	FLG R	Wind turbine
	10971	ÅMLIDEN	650325.0N 0190326.9E	476	1883	FLG R	Wind turbine
	10972	ÅMLIDEN	650337.8N 0190344.9E	476	1919	FLG R	Wind turbine
	10977	ÅMLIDEN	650340.4N 0190113.8E	476	1909	FLG R	Wind turbine
	10978	ÅMLIDEN	650353.1N 0190233.4E	476	1880	FLG R	Wind turbine
	10979	ÅMLIDEN	650410.2N 0190302.5E	476	1919	FLG R	Wind turbine
	10981	ÅMLIDEN	650339.1N 0190256.1E	476	1909	FLG R	Wind turbine
	10989	ÅMLIDEN	650315.1N 0190012.4E	476	2008	FLG R	Wind turbine
	10990	ÅMLIDEN	650301.2N 0190032.7E	476	2054	FLG R	Wind turbine
	10991	ÅMLIDEN	650315.5N 0190053.7E	476	1982	FLG R	Wind turbine
	10992	ÅMLIDEN	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
	65N 20E	9322	HULTET	652710.0N 0203049.9E	489	1732	FLG R
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		SKOGBERGLIDEN	652135.8N 0205537.2E	604	1385	FLG W	Wind turbine
11390		SKOGBERGLIDEN	652210.0N 0205530.1E	604	1509	F R	Wind turbine
11391		SKOGBERGLIDEN	652217.1N 0205604.0E	604	1421	F R	Wind turbine
11392		SKOGBERGLIDEN	652232.0N 0205543.6E	604	1460	F R	Wind turbine
11393		SKOGBERGLIDEN	652244.4N 0205514.6E	604	1555	F R	Wind turbine
11394		SKOGBERGLIDEN	652253.1N 0205444.6E	604	1591	F R	Wind turbine
11395		SKOGBERGLIDEN	652221.6N 0205458.7E	604	1509	F R	Wind turbine
11448		SKOGBERGLIDEN	652058.8N 0205946.6E	604	1135	FLG W	Wind turbine
11449		SKOGBERGLIDEN	652058.0N 0205853.1E	604	1230	F R	Wind turbine
11450		SKOGBERGLIDEN	652103.1N 0205808.3E	604	1296	F R	Wind turbine
11451		SKOGBERGLIDEN	652105.0N 0205724.6E	604	1312	FLG W	Wind turbine
11452		SKOGBERGLIDEN	652119.4N 0205736.2E	604	1335	F R	Wind turbine
11453	SKOGBERGLIDEN	652154.8N 0205608.7E	604	1450	F R	Wind turbine	
11454	SKOGBERGLIDEN	652152.4N 0205529.5E	604	1473	F R	Wind turbine	
11455	SKOGBERGLIDEN	652112.9N 0205655.5E	604	1306	F R	Wind turbine	
11456	SKOGBERGLIDEN	652127.3N 0205703.4E	604	1394	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
	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
	11593	SKOGBERGSLIDEN	652328.2N 0205216.5E	604	1509	F R	Wind turbine
	11594	SKOGBERGSLIDEN	652324.8N 0205135.9E	604	1467	FLG W	Wind turbine
	11648	SKOGBERGSLIDEN	652300.2N 0205520.2E	604	1604	F R/FLG W	Wind turbine
	11649	SKOGBERGSLIDEN	652316.0N 0205057.5E	604	1457	F R/FLG W	Wind turbine
	11650	SKOGBERGSLIDEN	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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	SKOGBERGSLIDEN	652123.7N 0205822.1E	656	1273	F R	Wind turbine
	13451	SKOGBERGSLIDEN	652115.9N 0205859.6E	656	1217	FLG W	Wind turbine
	13452	SKOGBERGSLIDEN	652142.8N 0205802.0E	656	1283	F R	Wind turbine
	13453	SKOGBERGSLIDEN	652138.8N 0205844.4E	656	1198	F R	Wind turbine
	13454	SKOGBERGSLIDEN	652156.0N 0205830.5E	656	1211	FLG W	Wind turbine
	13455	SKOGBERGSLIDEN	652142.4N 0205721.4E	656	1358	FLG W	Wind turbine
	13456	SKOGBERGSLIDEN	652158.0N 0205743.7E	656	1286	F R	Wind turbine
	13457	SKOGBERGSLIDEN	652156.9N 0205653.6E	656	1378	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
	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
	13473	SKOGBERGLIDEN	652346.2N 0205133.8E	656	1444	FLG W	Wind turbine
	13474	SKOGBERGLIDEN	652345.5N 0205215.0E	656	1454	F R	Wind turbine
	13475	SKOGBERGLIDEN	652355.7N 0205449.8E	656	1339	F R	Wind turbine
	13476	SKOGBERGLIDEN	652405.5N 0205533.5E	656	1234	FLG W	Wind turbine
	13477	SKOGBERGLIDEN	652353.7N 0205613.3E	656	1247	F R	Wind turbine
	13478	SKOGBERGLIDEN	652408.9N 0205622.2E	656	1224	F R	Wind turbine
	13479	SKOGBERGLIDEN	652354.0N 0205649.6E	656	1250	F R	Wind turbine
	13480	SKOGBERGLIDEN	652409.1N 0205711.8E	656	1217	F R	Wind turbine
	13481	SKOGBERGLIDEN	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

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13951	STORLIDEN	652615.2N 0203528.8E	650	1916	FLG W	Wind turbine
	14022	LÄNGTRÄSK	652716.3N 0202233.4E	656	2051	FLG W	Wind turbine
	14130	S BRÄNNTRÄSK	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
	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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



Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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

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 21E	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	HÅSTBERGET	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
	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
	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/LÄNGTRÄSK	655616.0N 0233058.2E	1066	1364	F R/FLG W	Mast
66N 19E	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
	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
66N 23E	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
	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	

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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

Air Navigation obstacles – HGT 328 ft / 100 m AGL or more							
Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
67N 21E	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
	16710	LINBANETOPPEN	670557.4N 0203640.3E	351	2806	unknown	Mast
	10344	KUUSIVAARA	672859.7N 0215717.3E	328	1609	F R	Mast
67N 22E	13202	LEHTIROVA	670957.1N 0215948.6E	604	1959	FLG W	Wind turbine
	16519	ROMUPUOLINEN	675334.2N 0210620.3E	341	1320	unknown	Mast
	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
	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

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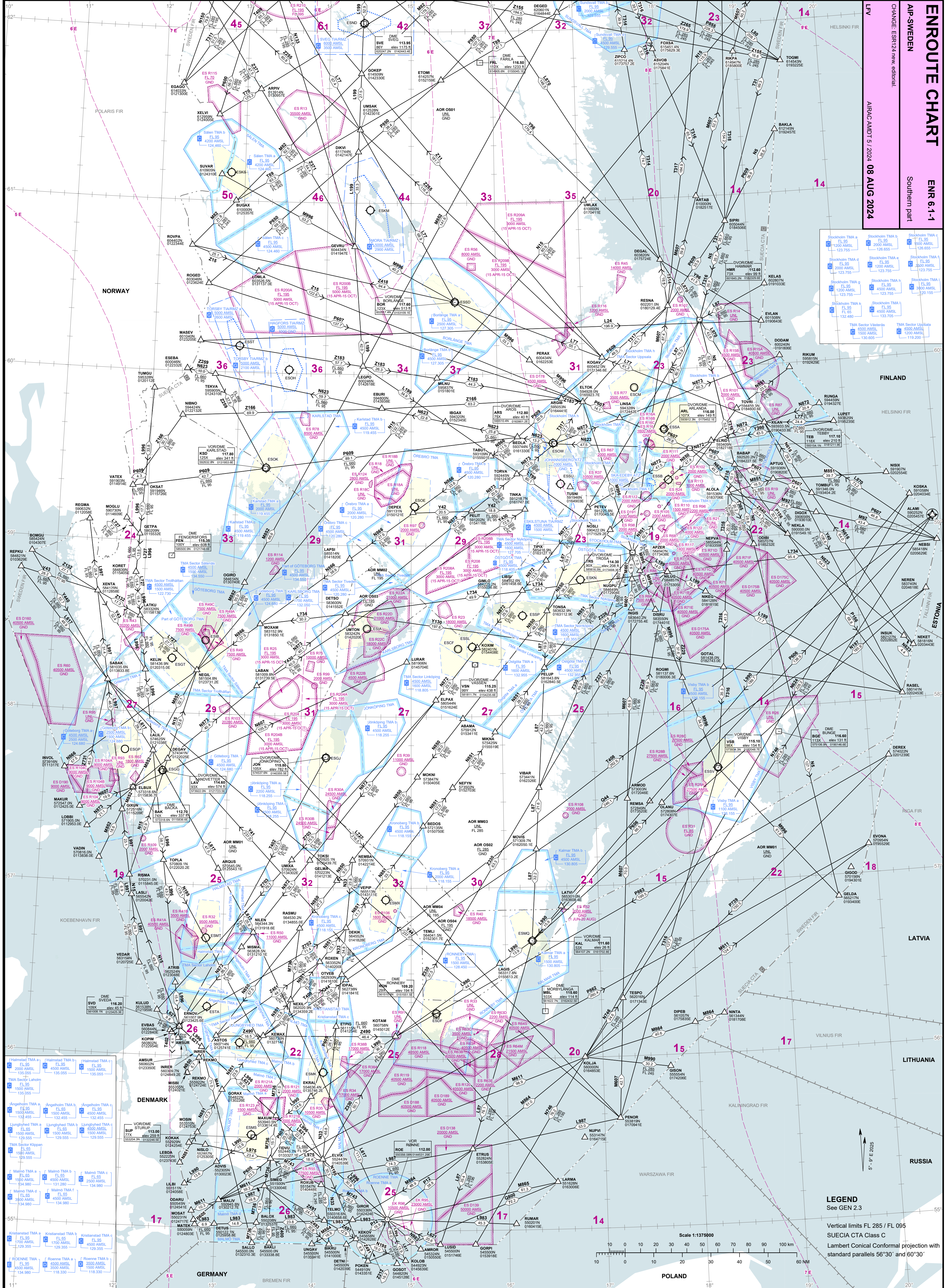


# ENROUTE CHART

AP-SWEDEN

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CHANGE EST/24 new editorial  
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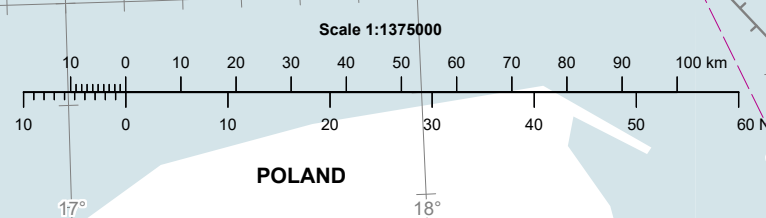
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Stockholm TMA g	Stockholm TMA h	Stockholm TMA i
FL 95 2000 AMSL 123.755	FL 95 1200 AMSL 123.755	FL 95 2000 AMSL 123.755
Stockholm TMA j	Stockholm TMA k	Stockholm TMA l
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TMA Sector Västerås  
FL 95  
130.600

TMA Sector Uppsala  
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118.200

**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'









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 <b>PPR</b> 30 PN SOS Rescue Coordination Centre +46 (0) 920 22 02 75 Ambulance and rescue flights only. Regulations see Heliport chart, www.nllplus.se/heliport
LUND/Skånes universitetssjukhus ESEM 554242N 0131156E (*) 352 ft	TLOF Ø 29.3 FATO Ø 29.3	CONC (11) CONC (11)	E E	Yes	-	Licensed helicopter AD County council +46 (0)46 17 10 00 (exch) +46 (0)771 41 00 11 UAS consultation <b>PPR</b> 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 <b>PPR</b> 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) CONC (11)	E E	Yes	-	Licensed helicopter AD County council +46 (0)23 49 00 00 <b>PPR</b> 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) <b>PPR</b> 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 <b>PPR</b> 20 min PN Ambulance and rescue flights only. SOS Rescue Coordination Centre +46 (0)920 22 02 75
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 <b>PPR</b> 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

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
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 <b>PPR</b> 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 <a href="http://www.ds.se/heliport">www.ds.se/heliport</a>
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 <b>PPR</b>
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 <b>PPR</b> 10 min PN SOS Rescue Coordination Centre +46 (0)8 454 26 22 or via RAKEL. Ambulance and rescue flights only. <a href="http://www.locum.se/verktygen/flygsakerhet/">www.locum.se/verktygen/flygsakerhet/</a>
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 (6) E CONC (6) E	E E	Yes  Yes	-  -	Licensed helicopter AD County council +46 (0)8 123 172 30 +46(0)72 546 05 38 <b>PPR</b> 10 min PN SOS Rescue Coordination Centre +46 (0)8 454 26 22 or via RAKEL. Ambulance and rescue flights only. <a href="http://www.locum.se/verktygen/flygsakerhet/">www.locum.se/verktygen/flygsakerhet/</a> 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 <b>PPR</b> 10 min PN SOS Rescue Coordination Centre +46 (0)8 454 26 22 or via RAKEL. Ambulance and rescue flights only. <a href="http://www.sodersjukhuset.se/heliport">www.sodersjukhuset.se/heliport</a>
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 <b>PPR</b> 60 min PN Länssjukhuset Sundsvall +46 (0)60 18 10 00 (exch) Ambulance and rescue flights only. <a href="http://www.rvn.se/heliport">www.rvn.se/heliport</a>

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
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 <b>PPR</b> 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 <b>PPR</b> 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 <b>PPR</b> 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, <a href="https://region uppsala.se/samverkanswebben/it-service-och-fastighet/helikopterflygplats/">https://region uppsala.se/samverkanswebben/it-service-och-fastighet/helikopterflygplats/</a>
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 <b>PPR</b> 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 <b>PPR</b> 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
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 <b>PPR</b>

<b>HELIPORT</b> 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
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 <b>PPR</b> 30 min PN +46 (0)19 602 22 22 Ambulance and rescue flights only. <a href="http://www.regionorebrolan.se/hkp">www.regionorebrolan.se/hkp</a> 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.
EDSBYD 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 <b>PPR</b> 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 <b>PPR</b> 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 <b>PPR</b>
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. <b>PPR</b> 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.

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
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 565817N 0122321E (*) 36 ft	09/27	700x30	Grass	Yes	100LL	-	Non-licensed AD Falkenbergs 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 <b>PPR</b> 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 <b>PPR</b> 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 <b>PPR</b> 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
LANDSKRONA ESML 555640N 0125210E (*) 4.3 NM NNE 194 ft	12R/30L 12L/30R	1180x30 1050x90	ASPH Grass	Yes No	100LL 91/96UL	123.350	Non-licensed AD Municipal +46 (0)418 750 10 Fax +46 (0)418 750 34 <b>PPR</b> for repeated take-offs and landings. THR 12R displaced 105 m. THR 30L displaced 60 m. Right hand traffic circuit to RWY 12R for powered aeroplanes and helicopters and to RWY 30R for gliders. PCL on freq 123.350 MHz, 3 transmissions within 5 sec. Motor activity may occur.
LIDKÖPING ESGL 582755N 0131028E 2.5 NM S Lidköping 200 ft	06/24	1990x45	ASPH	Yes	100LL 91/96 Jet A1	131.765	Non-licensed AD Municipal +46 (0)709 68 92 23 +46 (0)510 53 51 00 Glider info <b>PPR</b> PCL on freq 131.765 MHz, 10 sec duration. Repeated take-off and landing exercises (TGL) during darkness only permitted ordinary Tuesdays 1700-2000 (1600-1900). andre.persson@lidkoping.se www.lidkopingairport.com
LINKÖPING/Malmen ESCF Details, see AD 2	01/19 08/26	2214x35 1870x37	ASPH ASPH	Yes Yes	TWR	Yes	MIL, licensed, instrument AD FM/Swedish Armed Forces
LINKÖPING/Saab ESSL Details, see AD 2	11/29	2135x45	ASPH	Yes	TWR	Yes	Licensed, instrument AD Private
LJUNGBY/Feringe ESMG 565701N 0135518E 7 NM NE Ljungby 538 ft	01/19	1150x30	ASPH	No	100LL Jet A1	123.015	Non-licensed AD Feringe flygklubb +46 (0)705 98 19 85 +46 (0)370 819 85 <b>PPR</b> Motor activities may occur. www.feringeairport.se/
LJUNGBYHED ESTL Details, see AD 2	11L/29R 11R/29L	1998x40 1986x40	ASPH ASPH/ CONC	Yes Yes	TWR	Yes	Licensed, instrument AD Municipal
LJUSDAL ESUL 614901N 0160015E (*) 2.0 NM WSW 485 ft	09/27	620x35	Grass	No	100LL 91/96	123.200	Non-licensed AD Ljusdal flygklubb +46 (0)651 107 46 +46 (0)651 334 56 +46 (0)706 95 50 09 Overflying of surface quarry on 614800N 0155900E 1000m S of Ljusdal AD should be avoided below 2000 ft MSL.

<b>AERODROME</b> 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
LUDVIKA ESSG 600518N 0150547E 2 NM WSW Ludvika 894 ft	01/19	819x30	ASPH	Yes	91/96	123.150	Non-licensed AD Municipal +46 (0)70 328 17 27 Turbulence over RWY when wind from the east. Motor activities on RWY weekdays 1 APR-30 SEP 0600-1200 (0500-1100) 1 OCT-31 MAR 0600-1500 (0500-1400)
LULEÅ/Kallax ESPA Details, see AD 2	14/32	3350x45	ASPH	Yes	TWR	Yes	MIL, licensed, instrument AD FM/Swedish Armed Forces
LYCKSELE ESNL Details, see AD 2	14/32	2092x45	ASPH	Yes	AFIS	Yes	Licensed, instrument AD Municipal
MALMÖ ESMS Details, see AD 2	17/35 11/29	2800x45 799x18	ASPH ASPH	Yes No	TWR	Yes	Licensed, instrument AD Swedavia AB
MALUNG/Skinnlanda ESVM 603932N 0134336E (*) 1.7 NM SSE 975 ft	16/34	800x23	ASPH	Yes	91/96	123.330	Non-licensed AD Malungs flygklubb +46 (0)702 76 22 89 +46 (0)705 80 91 80 +46 (0)703 98 33 20 Right hand traffic circuit when RWY 16 is in use. RWY and lightning facilities TEMPO CLSD during winter season. Info on <a href="http://www.malungsflygklubb.se">www.malungsflygklubb.se</a>
MELLANSEL ESUI 632331N 0181914E (*) 13 NM NW Ömsköldsvik 265 ft	09/27	795x35	Grass	No	91/96	123.400	Non-licensed AD Mellansels Flygklubb +46 (0)660 910 54 +46 (0)660 922 00 Further 235 m available in emergency when landing RWY 27.
MOHED ESUM 611728N 0165047E (*) 6 NM W Söderhamn 215 ft	12/30	800x30	ASPH	Yes	91/96	123.600	Non-licensed AD Municipal +46 (0)703 51 50 66
MORA/Siljan ESKM Details, see AD 2	16/34	1814x45	ASPH	Yes	AFIS	Yes	Licensed, instrument AD Municipal
MUNKFORS ESKO 594756N 0132926E (*) 1.6 NM S 279 ft	03/21	700x40	Grass	No	100LL	-	Non-licensed AD Munkfors flygklubb +46 (0)552 303 89 (AD) +46 (0)563 510 74 Hangar
NORRKÖPING/Kungsängen ESSP Details, see AD 2	09/27 11/29	2205x45 600x35	ASPH Grass	Yes No	TWR	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
SMÅLANDSSTENAR ESMY 571007N 0132624E (*) 540 ft	04/22	915x15	ASPH	Yes	100LL	123.200	Non-licensed AD AB Varmförzinkning +46 (0)371 343 00 MON-FRI 0630-1530 (0530-1430) info@varmforzinkning.se <b>PPR</b> After TKOF RWY 22 climb on RWY heading until 700 ft AMSL (160 ft AGL). Turn right and climb on heading 235° to MNM 1500 ft AMSL (1000 ft AGL). PCL on freq 123.200 MHz, 20 sec duration.
SOLLEFTEÅ ESNB 631016N 0165908E (*) 2.4 NM WSW 433 ft	14/32	820x30	ASPH	No	Jet A1	123.350	Non-licensed AD Sollefteå flygklubb +46 (0)702 81 65 24 sollefteå.flygklubb@gmail.com
STEGEBORG ESVE 582600N 0163618E (*) 6 ft	08/26	800x30	Grass	No	-	123.550	Non-licensed AD Stegeborgs Egendom AB +46 (0)121 420 04 stegeborg@stegeborg.se www.stegeborg.se
STOCKHOLM/Arlanda ESSA Details, see AD 2	01L/19R 01R/19L 08/26	3301x45 2500x45 2500x45	ASPH ASPH ASPH	Yes Yes Yes	TWR	Yes	Licensed, instrument AD Swedavia AB
STOCKHOLM/Bromma ESSB Details, see AD 2	12/30	1668x45	ASPH	Yes	TWR	Yes	Licensed, instrument AD Swedavia AB
STOCKHOLM/Skavsta ESKN Details, see AD 2	08/26 16/34	2878x45 2043x40	ASPH ASPH	Yes Yes	TWR	Yes	Licensed, instrument AD Private
STOCKHOLM/Skå-Edeby ESSE 592042N 0174426E (*) 10 NM W 17 ft	11/29 03/21	800x50 650x65	Grass Grass	No No	100LL 91/96 UL	123.200	Non-licensed AD Municipal +46 (0)706 95 40 48 <b>PPR</b> for commercial operations NOV-APR soft or CLSD RWY, call for condition. Helicopter traffic not accepted exc police and rescue operations. ATZ established, ref ENR 2.2. Hangar and repair. TGL RWY 11 not allowed. www.skaedebyflygfalt.se
STOCKHOLM/Västerås ESOW Details, see AD 2	01/19	2581x45	ASPH	Yes	TWR	Yes	Licensed, instrument AD Municipal
STORUMAN ESUD 645739N 0174148E ESE 16.0 NM from Storuman 915 ft	15/33	2283x40	ASPH	No	-	-	Non-licensed AD Municipal +46 (0)951 141 07 <b>PPR</b>

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
STORVIK/Lemstanäs ESOL 603516N 0163512E (*) 210 ft	06/24	620x23	ASPH	No	91/96 Jet A1	123.550	Non-licensed AD Västra Gästrike flygklubb +46 (0)290 375 97 Right hand traffic circuit to RWY 06. THR 06 displaced 150 m.
STRÖMSTAD/Näsinge ESGS 590101N 0112037E (*) 7 NM NE 115 ft	03/21	900x53	Grass	No	91/96 UL JET A1	123.550	Non-licensed AD Municipal +46 (0)526 190 00 (Exch) +46 (0)526 311 37 +46 (0)733 74 72 00 +47 913 23 326 <b>PPR</b>
SUNDBRO ESKC 595522N 0173212E (*) 5 NM NW Uppsala 62 ft	03/21 08/26 14/32	630x40 470x60 435x35	Grass Grass Grass	Yes No No	100LL 91/96	123.350	Non-licensed AD Uppsala Flygklubb +46 (0)18 35 70 13 (AD) +46 (0)708 84 99 49 (Info, PPR) +46 (0)706 20 90 75 (Info, PPR) www.uppsalaflygklubb.se  Situated within Uppsala CTR. Right hand traffic circuit to RWY 03 and 08. TKOF RWY 21: immediate right turn to track 217° MAG. PCL on freq 123.350 MHz, 5 transmissions of APRX 0.5 sec during 10 sec  Flying permitted: MON-THU: 0700-1900 (0600-1800) FRI: 0700-1600 (0600-1500) SAT, SUN, day before HOL, HOL: 0800-1600 (0700-1500) Other times <b>PPR</b> . In addition between 15 JUN-15 AUG: SUN, day before HOL, HOL: <b>PPR</b>  <b>PPR</b> for school flights and glider towing. Landing with gliders exempted from <b>PPR</b> .  Fuel HX: Cash
SUNDSVALL-TIMRÅ ESNN Details, see AD 2	16/34	1954x45	ASPH	Yes	TWR	Yes	Licensed, instrument AD Municipal
SUNNE ESKU 595137N 0130646E (*) 1.5 NM NW 380 ft	01/19	770x100	Grass	No	100LL	123.200	Non-licensed AD Municipal +46 (0)565 101 11 +46 (0)565 77 01 55 +46 (0)703 73 05 66 THR 01 displaced 130 m.
SVEG ESND Details, see AD 2	09/27	1701x30	ASPH	Yes	AFIS	Yes	Licensed, instrument AD Municipal
SÄTENÄS ESIB Details, see AD 2	01/19 11/29	2264x45 1933x40	ASPH ASPH	Yes Yes	TWR	Yes	MIL, licensed, instrument AD FM/Swedish Armed Forces

**ESNX 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA**

1.	Apron surface and strength	Apron 1 ASPH PCN 39 F/B/X/U
2.	Taxiway width, surface and strength	TWY A 23 m ASPH PCN 39 F/B/X/U TWY B 23 m ASPH PCN 39 F/B/X/U
3.	ACL, location and elevation	Apron 1254 ft
4.	VOR checkpoints	-
5.	INS checkpoints	-
6.	Remarks	-

**ESNX 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 12/30: Designator, THR, TDZ, CL and edges are day marked. RTHL, REDL, RENL  TWY A: CL, HLDG day marked, lighted sign. Edge lights, RGL B: CL, HLDG day marked, lighted sign. Edge lights, RGL
3.	Stop bars	-
4.	Remarks	-

**ESNX 2.10 AERODROME OBSTACLES**

In Area 2					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
Not available					

In Area 3					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
Not available					

## ESNX 2.11 METEOROLOGICAL INFORMATION PROVIDED

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

## ESNX 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	128.19° GEO 120° MAG	2500 x 45	PCN 39 F/B/X/U ASPH	653554.80N 0191522.22E  GUND 92 ft	THR 1242.0 ft TDZ 1245 ft
30	308.23° GEO 300° MAG	2500 x 45	PCN 39 F/B/X/U ASPH	653504.88N 0191755.52E  GUND 92 ft	THR 1240.1 ft TDZ 1240 ft

Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
12 See ESNX AOC	-	-	2660 x 300	-	-
30 See ESNX AOC	-	-	2660 x 300	-	-

## ESNX 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
12	2500	2500	2500	2500	-
30	2500	2500	2500	2500	-

## ESNX 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 CAT I 720 m LIL/LIH	Green	PAPI Left/3.00° (52.5 ft)	-	-	2500/60 m White Caution zone 600 m yellow LIL/LIH	Red	-
30	Calvert CAT I 900 m LIL/LIH	Green WBAR	PAPI Left/3.00° (55.8 ft)	-	-	2500/60 m White Caution zone 600 m yellow LIL/LIH	Red	-
10 Remarks: -								

## ESNX 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 apron  
-
3. TWY edge and centre line lighting Edge: TWY A, B  
CL: -
4. Secondary power supply/switch-over time Available/Less than 1 sec for departures when LVP is established.
5. Remarks -

## ESNX 2.16 HELICOPTER LANDING AREA

RWY 12/30 to be used

## ESNX 2.17 ATS AIRSPACE

1. Designation and lateral limits ARVIDSJAUR CTR, 654359N 0185731E - 654222N 0191838E -  
TIZ/RMZ 653958N 0192507E - 653554N 0193336E -  
652935N 0194251E - 652616N 0193629E -  
652719N 0192321E - 653102N 0190814E -  
654102N 0185157E - 654359N 0185731E
2. Vertical limits ARVIDSJAUR CTR, 3200 ft AMSL  
TIZ/RMZ GND
3. Airspace classification CTR C  
TIZ/RMZ G
4. ATS unit call sign ARVIDSJAUR TOWER/INFORMATION  
Language(s) Swedish/English
5. Transition altitude 5000 ft AMSL
6. Remarks Continuous two-way radiocommunication required in CTR and TIZ/RMZ.  
CTR established during hours of TWR.  
TIZ/RMZ established during hours of AFIS.

## ESNX 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/ Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR/AFIS	ARVIDSJAUR TOWER/INFORMATION	122.730	HX	-
		121.500	HX	-

## ESNX 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 I (8° E 2020)	ARV	109.35 MHz	H24 *	653453.1N 0191831.6E		590 m beyond THR 30 ILS Class I/E/2
GP		331.85 MHz	H24 *	653551.9N 0191546.1E		Angle 3.0° RDH 50.9 ft 295 m past THR left side. During winter angle may vary btn 3.0° and 3.25° due snow
L 12	AN	381 kHz	H24 *	653802.1N 0190834.9E		Range 30 NM
LOC 30 ILS CAT I (8° E 2020)	NX	111.50 MHz	H24 *	653559.9N 0191506.6E		255 m beyond THR 12 ILS Class I/E/2
GP		332.90 MHz	H24 *	653513.9N 0191742.9E		Angle 3.0° RDH 49.9 ft 300 m past THR 30 right side During winter angle may vary btn 3.0° and 3.25° due snow.
L 30	AS	358 kHz	H24 *	653343.8N 0192203.4E		Range 15 NM
DME	ARV	109.35 MHz	H24 *	653552.0N 0191546.3E	1276 ft	Co-located with GP 12 DME channel 30Y
DME	NX	111.50 MHz	H24 *	653514.0N 0191743.1E	1278 ft	Co-located with GP 30 DME channel 52X

\* Monitoring of signal in space limited to ATS HR of OPS

## ESNX 2.20 LOKALA TRAFIKFÖRESKRIFTER

- För skol- och övningsflygning gäller PPR under tider för TWR/AFIS. PPR TEL 0960 173 85.
- Högervarv gäller till RWY 30 vid start- och landningsövningar utanför TWR öppethållning.
- Väntplats på TWY A är inte tillgänglig under AFIS öppethållningstid och när banan är upptagen av annat luftfartyg.
- Begäran om motorstart med ATS är obligatorisk för alla luftfartyg. Trafik som använder sig av marktjänster måste alltid samordna med startledare/ markpersonal innan denna begäran.

## LOCAL TRAFFIC REGULATIONS

- PPR by school and training flights during hours of TWR/AFIS. PPR TEL +46 (0)960 173 85.
- Right hand traffic circuit applies to RWY 30 during take-off and landing exercises outside hours of TWR.
- 3Holding on TWY A is not available during AFIS hours and when RWY is blocked by other ACFT.
- Start-up request with ATS is mandatory for all aircraft. Traffic using groundhandling services must always coordinate start-up with mashaller/ground crew , prior to this request.

**ESNX 2.21 MINSKNING AV BULLERSTÖRNING**

Överflygning av centrala delarna av Arvidsjaur bör undvikas under 3000 ft AMSL.

**NOISE ABATEMENT PROCEDURES**

Overflying of the central parts of Arvidsjaur should be avoided below 3000 ft AMSL.

**ESNX 2.22 FLYGPROCEDURER**

## 1. Startprocedurer, omnidirectional

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
12	Climb straight ahead to MNM turning ALT 2400 ft AMSL. Continue climb to appropriate MSA.	Antenna	3522	240°/14310
30	Climb straight ahead to MNM turning ALT 3000 ft AMSL. Continue climb to appropriate MSA.	Antenna	3522	248°/15400

**FLIGHT PROCEDURES**

## 1. Omnidirectional departure procedures

## 2. Lågsiktsprocedurer (LVP)

ATC förbereder LVP när RVR underskrider 800 m och/eller när molntäckeshöjd eller vertikalsikten underskrider 300 ft. LVP träder i kraft senast när RVR är lägre än 550 m eller när molntäckeshöjden eller vertikalsikten är lägre än 200ft.

Lägsta RVR för avgående trafik är 400 m.

När LVP tillämpas tillåts endast ett luftfartyg eller endast fordon på manöverområdet.

Meddelande om att LVP är i kraft lämnas av ATS.

LVP-beskrivning:

- När RVR understiger 550 m tillåts endast ett luftfartyg alternativt fordon inom manöverområdet.
- Luftfartyg kan bli instruerade att invänta taxiklarering på uppställningsplats i avvaktan på trafikavveckling.
- Fordon inom manöverområdet är ej tillåtet i samband med avgångstrafik. Undantag görs för fordon som utför inspektion av manöverområdet eller som utför mätning av RVR.
- In- och uttaxning till RWY 12/30 ska företrädesvis ske via TWY A.

Meddelande om att LVP upphör lämnas av ATS.

## 3. VFR-flygning inom Arvidsjaur CTR

Luftfartyg skall följa de föreskrifter som anges i ENR 1.2. Därutöver gäller följande:

Normala in- och utpasseringspunkter  
RONNBERG, DEPPIS, ABBOR och RAVEN.

Väntläge NORD, vägslutet vid Bäcklund.

## 2. Low visibility procedures (LVP)

LVP operations will be prepared by ATC when RVR is below 800 m and/or ceiling or vertical visibility is below 300 ft. LVP will be in force at latest when RVR is below 550 m or ceiling or vertical visibility is below 200 ft.

Minimum RVR for departing traffic is 400 m.

When LVP applies only one aircraft or only vehicles are allowed in the manoeuvring area.

The application of LVP will be announced by ATS.

Description of LVP:

- When RVR is below 550 m only one aircraft or vehicles are allowed in the manoeuvring area.
- Aircraft can be instructed to hold on parking until no other aircraft- or vehicle movements are under way.
- Vehicles on the manoeuvring area are not permitted when departure operations are in progress. Exception is made for vehicles conducting runway inspection or manually measuring RVR.
- Entry and exit to RWY 12/30 preferentially via TWY A.

ATS announces when LVP no longer applies.

## 3. VFR flights in Arvidsjaur CTR

Aircraft shall adhere to the procedures stipulated in ENR 1.2. In addition, the following applies:

Normal entry and exit points  
RONNBERG, DEPPIS, ABBOR and RAVEN.

Holding NORTH, at the end of the road at Bäcklund.

**ESNX 2.23 ÖVRIG INFORMATION**

Under vintersäsongen provbana för bilar på isbana 3-4 NM minus THR 12.

**ADDITIONAL INFORMATION**

During winter season test facility for motorcars on icetrack 3-4 NM minus THR 12.

**ESNX 2.24 TILLHÖRANDE KARTOR**

AD chart

AOC

RWY 12/30

Area chart

List of waypoints and significant points

ATC Surveillance Minimum ALT chart

IAC

ILS z or LOC z RWY 30

IAC

ILS y or LOC y RWY 30

IAC

NDB RWY 30 (Cat A/B/C)

IAC

ILS z or LOC z RWY 12

IAC

ILS y or LOC y RWY 12

IAC

NDB RWY 12

IAC

RNP RWY 12

IAC

RNP RWY 30

VAC

**RELATED CHARTS**

ESNX 2-1

ESNX-3-1

ESNX 4-1

ESNX 4-3

ESNX 4-91

ESNX 5-1

ESNX 5-2

ESNX 5-3

ESNX 5-4

ESNX 5-5

ESNX 5-6

ESNX 5-7

ESNX 5-11

ESNX 6-1



## ESNG 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
AFIS	GÄLLIVARE INFORMATION	122.330	HO	-
		121.500	HO	-

## ESNG 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
L 12	TG	346 kHz	H24	670846.6N 0204437.5E		Range 15 NM
LOC 30 ILS CAT I (9° E 2020)	NG	108.10 MHz	H24	670811.5N 0204740.6E		126 m beyond THR 12 ILS class I/D/2
GP		334.70 MHz	H24	670744.0N 0204932.2E		Angle 3.0° RDH 49.2 ft 253 m past THR 30 left side During winter angle may vary BTN 3.0° and 3.25° due snow.
LO 30	OG	325 kHz	H24	670614.2N 0205707.0E		Range 15 NM
DME	NG	108.10 MHz	H24	670743.8N 0204932.0E	993 ft	DME channel 18X

## ESNG 2.20 LOKALA TRAFIKFÖRESKRIFTER

NIL

## LOCAL TRAFFIC REGULATIONS

NIL

## ESNG 2.21 MINSKNING AV BULLERSTÖRNING

NIL

## NOISE ABATEMENT PROCEDURES

NIL

## ESNG 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
12	Climb straight ahead to MNM turning ALT 2700 ft. Continue climb to appropriate MSA.	Tree(CIO)	998	123°/1795
		Pylon	2988	243°/9055
30	Climb straight ahead with MNM 330 ft/NM (5.3%) to MNM turning ALT 3000 ft. Continue climb to appropriate MSA.	Terrain (CIO)	1175	280°/1879
		Pylon	2067	315°/7334
		Pylon	2988	243°/9056

2 Lägsta RVR för avgående trafik är 550 m.

2 Minimum RVR for departing traffic is 550 m.

**ESNG 2.23 ÖVRIG INFORMATION**

- 1 Beviljade undantag från krav i CS-ADR-CSN
- Länglutningen på banan är maximum 1.0%.
  - Första fjärdedelen av bana 30 har länglutning 1.0%.
  - Första fjärdedelen av bana 12 har länglutning 0.9%.
  - Fasta hinder genomtränger hinderbegränsande ytor.

**ADDITIONAL INFORMATION**

- 1 Granted exemptions from requirements in CS-ADR-CSN
- Longitudinal slope of the runway is maximum 1.0%.
  - RWY 30: The first quarter of the length of runway longitudinal slope is 1.0%.
  - RWY 12: The first quarter of the length of runway longitudinal slope is 0.9%.
  - Fixed obstacles penetrating the obstacle area.

**ESNG 2.24 TILLHÖRANDE KARTOR**

AD chart	
AOC	RWY 12/30
List of waypoints and significant points	
IAC	ILS or LOC RWY 30
IAC	NDB RWY 30
IAC	NDB RWY 12
IAC	RNP RWY 12
IAC	RNP RWY 30
VAC	

**RELATED CHARTS**

ESNG 2-1  
ESNG 3-1  
ESNG 4-3  
ESNG 5-1  
ESNG 5-2  
ESNG 5-3  
ESNG 5-5  
ESNG 5-9  
ESNG 6-1

## ESGG 2.17 ATS AIRSPACE

1.	Designation and lateral limits	LANDVETTER CTR	574959N 0121951E - 574716N 0123008E - 573749N 0122751E - 572959N 0121251E - 573214N 0120436E - 574229N 0120611E - 574959N 0121951E
2.	Vertical limits	LANDVETTER CTR	1500 ft AMSL GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	LANDVETTER TOWER	Swedish/English
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	CTR established during hours of TWR.	

## ESGG 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	LANDVETTER TOWER	118.605	H24	Primary channel
		121.500	H24	-
		123.100	HO	SAR
	LANDVETTER GROUND	121.905	H24	Start-up, push-back and taxi instructions.
	CLEARANCE DELIVERY	121.680	H24	ATC clearance DCL service available by ACARS for ACFT equipped with ACARS-MU (AEEC 623 compliant) (Provider: ARINC for datalink communication).
ATIS	LANDVETTER ATIS	118.380	H24	Simultaneous transmission, both frequencies. D-ATIS service available.
		114.600	H24	Simultaneous transmission, both frequencies. D-ATIS service available.

## ESGG 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 03 ILS CAT III (4° E 2020)	SGG	110.30 MHz	HO	574042.7N 0121738.8E		295 m beyond THR 21 LOC Class III/E/4
GP		335.00 MHz	HO	573908.4N 0121604.9E		Angle 3.0° RDH 54.1 ft 290 m past THR 03 left side GP Class III/T/4
OM				573541.8N 0121313.5E		-
MM				573826.3N 0121534.7E		-
L 03	SL	342 kHz	H24	573541.5N 0121313.4E		Range 15 NM
LOC 21 ILS CAT III (4° E 2020)	NGG	108.50 MHz	HO	573849.8N 0121556.0E		291 m beyond THR 03 LOC Class III/E/4
GP		329.90 MHz	HO	574026.6N 0121716.0E		Angle 3.0° RDH 49.9 ft 322 m past THR 21 right side GP Class III/T/4
OM				574350.4N 0122039.5E		-
MM				574102.8N 0121757.0E		-
L 21	NL	369 kHz	H24	574350.1N 0122039.2E		Range 15 NM
DVOR/DME (4° E 2020)	LAV	114.60 MHz	H24	573922.0N 0121723.5E	574 ft	DME channel 93X
DME	HGG	113.95 MHz	H24	573445.7N 0121843.6E	675 ft	DME channel 86Y
DME	PGG	113.35 MHz	H24	574357.4N 0121139.7E	451 ft	DME channel 80Y
DME	SDH	115.65 MHz	H24	574538.6N 0125031.3E	1066 ft	DME channel 103Y

## ESGG 2.20 LOKALA TRAFIKFÖRESKRIFTER

## 1. Flygplatskoordinering

Ansökan om SLOT är obligatoriskt för alla ankomster och avgångar. SLOT-ansökan skickas via OCS eller via e-post som en SCR eller GCR.

Ansökan om slot för passageraravgångar (flight type J, C och G) mellan 2200 och 0400 (2100-0300) behöver godkännande från flygplatsen.

Förändring eller avbokning av begäran om SLOT skall meddelas utan dröjsmål. Godkännande av SLOT ersätter inte färdplan eller begäran om marktjänst.

## LOCAL TRAFFIC REGULATIONS

## 1. Aerodrome Coordination

SLOT request is mandatory for all arrivals and departures. SLOT request shall be sent via OCS or via e-mail as a SCR or GCR.

Slot request for scheduled passenger departures (flight type J, C and G) between 2200 and 0400 (2100-0300) requires approval by airport authority.

Any change or cancellation in the request of SLOT shall be reported without delay. The SLOT approval does not replace flight plan or handling request.

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) och statsluftfartyg (HEAD eller STATE). Operatörer skall försäkra sig om att arrangemang med marktjänstbolag finns före ankomst och avgång. För ytterligare information om marktjänst: [www.swedavia.com](http://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) and state aircrafts (HEAD or STATE). Operators shall assure arrangements with ground handling agent prior to arrival and departure. For further information about handling services: [www.swedavia.com](http://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.

**ESOH 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 giude lines and signs  |
| 2. | RWY and TWY markings and LGT  | RWY 18/36: Designator, THR, CL and edges are day marked RTHL, REDL, RENL<br><br>TWY A: CL, HLDG day marked. Edge LGT, RGL |
| 3. | Stop bars   | -   |
| 4. | Remarks   | -   |

**ESOH 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
ESOH1	Pole	600044.9N 0133447.2E	473 / -	-	-
ESOH2	Shrub	600044.1N 0133440.6E	484 / -	-	-
ESOH3	Shrub	600042.9N 0133453.7E	487 / -	-	-
ESOH4	Forest	600042.3N 0133453.9E	488 / -	-	-
ESOH5	Forest	600041.8N 0133440.5E	508 / -	-	-
ESOH6	Forest	600041.6N 0133440.8E	513 / -	-	-
ESOH7	Shrub	600143.8N 0133447.4E	488 / -	-	-
ESOH8	Shrub	600144.3N 0133446.1E	489 / -	-	-
ESOH9	Shrub	600146.1N 0133432.3E	492 / -	-	-
ESOH10	Shrub	600148.5N 0133433.0E	495 / -	-	-
ESOH11	Forest	600155.7N 0133448.2E	510 / -	-	-
ESOH12	Forest	600202.6N 0133449.1E	547 / -	-	-
ESOH13	Forest	600203.6N 0133448.6E	558 / -	-	-
ESOH14	Forest	600204.4N 0133447.1E	564 / -	-	-
ESOH15	Forest	600204.5N 0133446.7E	564 / -	-	-
ESOH16	Forest	600211.8N 0133443.0E	574 / -	-	-
ESOH17	Forest	600215.0N 0133441.6E	580 / -	-	-
ESOH18	Forest	600218.6N 0133424.1E	590 / -	-	-

In Area 3					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
Not available					

## ESOH 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	HAGFORS AFIS
10.	Additional information (limitation of service, etc.)	Flight planning room available

## ESOH 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
18	176.69° GEO 172° MAG	1508 x 30	PCN 25 F/B/X/T ASPH	600136.57N 0133441.24E  GUND 102.1 ft	THR 474.3 ft TDZ 474.3 ft
36	356.69° GEO 352° MAG	1508 x 30	PCN 25 F/B/X/T ASPH	600047.91N 0133446.87E  GUND 102 ft	THR 469 ft

Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
18 See ESOH AOC	-	-	1628 x 280	-	-
36 See ESOH AOC	-	-	1628 x 280	-	-

## ESOH 2.13 DECLARED DISTANCES

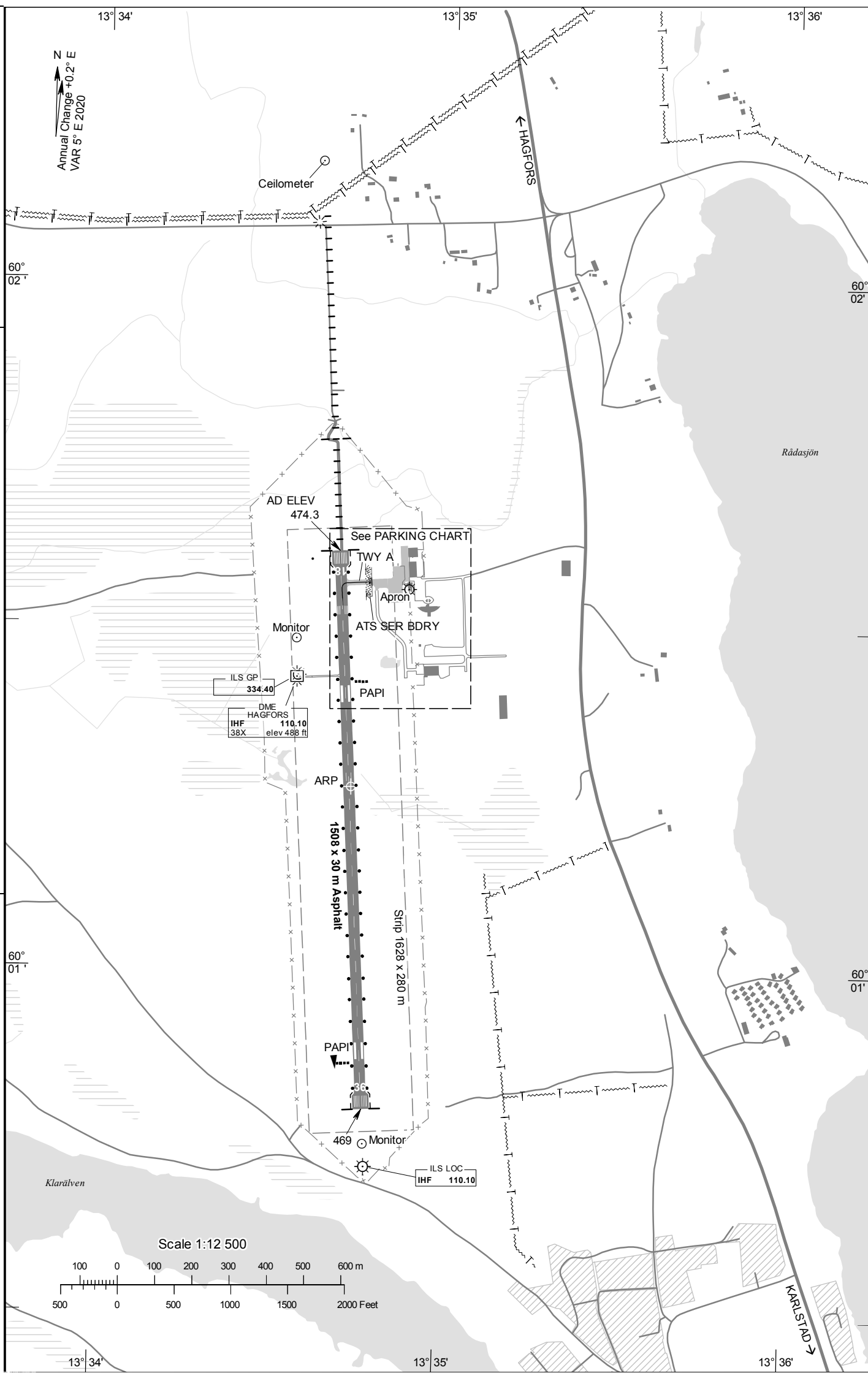
RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
18	1508	1508	1508	1508	-
36	1508	1508	1508	1508	-



LFV

CHANGE: RWY and apron markings

AIRAC AMDT 5/2024 08 AUG 2024



ARP 600116N 0133444E

AD ELEV 474 FEET

LEGEND See GEN 2.3

Dimensions in m, ELEV in ft

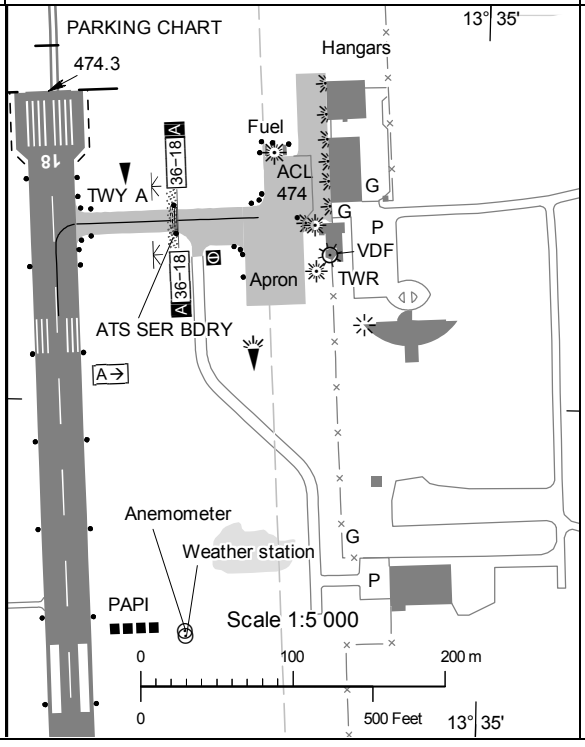
TWY NR	WIDTH	Surface Bearing strength	Day marking		Taxiway lighting	
			Centerline Holding	Edge Centerline	RGL Stopbar	RGL
A	15 m	ASPH PCN 26 F/B/X/T	CL HLDG	EDGE		RGL

INS Coordinates for Aircraft Stands			
APRON Surface Bearing strength	NR	COORD	ELEV
ASPH PCN 22 F/B/X/T			

AIP SWEDEN

AFIS 122.230

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
18	176.69° GEO 172° MAG	600136.57N 0133441.24E GUND 102.1 ft	PCN 25 F/B/X/T	THR 474.3 ft TDZ 474.3 ft	1508	1508	1508	1508	Barrette CL Cat I 900 m LIL/LIH	THR Green	PAPI Left/3.00° (50.0 ft)	1508/60 m White Caution zone 600 m yellow LIL/LIH	Red
36	356.69° GEO 352° MAG	600047.91N 0133446.87E GUND 102 ft	PCN 25 F/B/X/T	THR 469 ft	1508	1508	1508	1508		THR Green	PAPI Left/3.00° (21.5 ft)	1508/60 M White Caution zone 600 m yellow LIL/LIH	Red



AERODROME CHART - ICAO

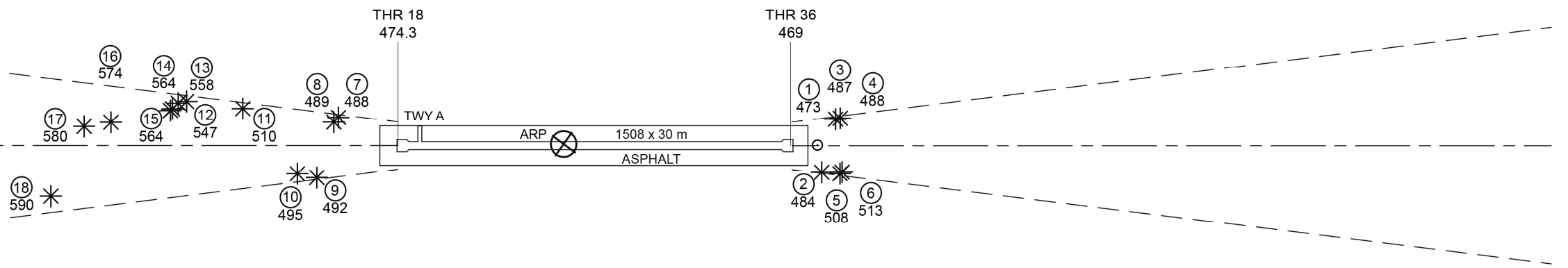
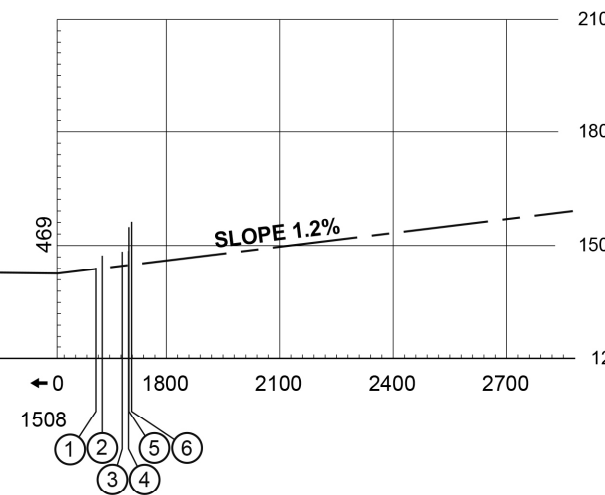
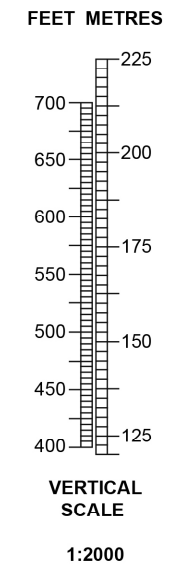
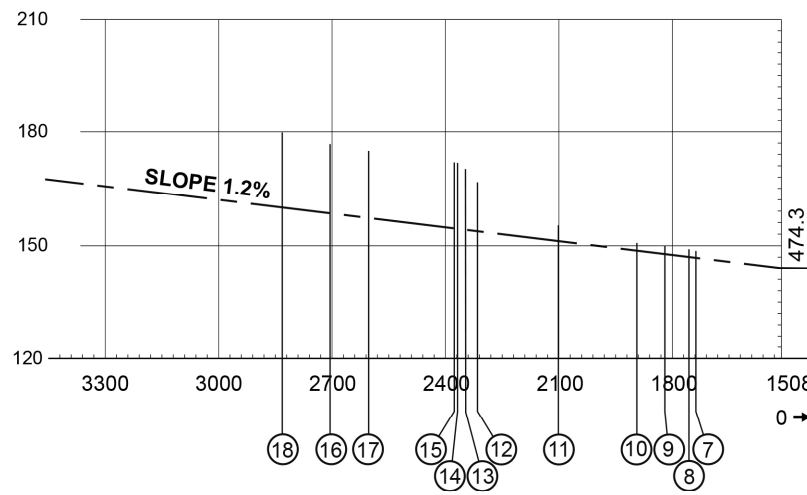
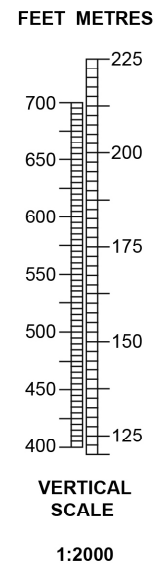
AD 2 ESOH 2-1  
HAGFORS



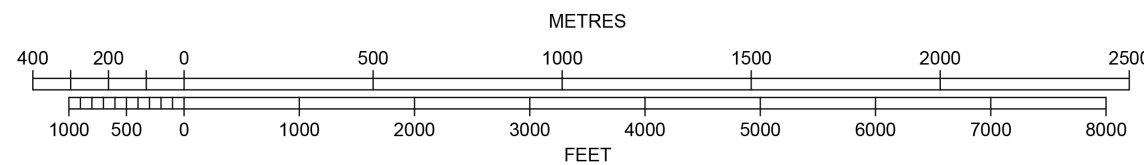
**AERODROME ELEVATION 474 FEET**  
MAGNETIC VARIATION 5° E 2020

**RUNWAY BEARINGS**  
18 = GEO 176.69°; MAG 172°  
36 = GEO 356.69°; MAG 352°

RWY 18	DECLARED DISTANCES	RWY 36
1508	TAKE-OFF RUN AVAILABLE	1508
1508	TAKE-OFF DISTANCE AVAILABLE	1508
1508	ACCELERATE STOP DIST. AVAILABLE	1508
1508	LANDING DISTANCE AVAILABLE	1508



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	▲



## 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                        | 5° E 2020/+0.2 increasing   |
| 6. | Administration, address, telephone, fax, AFS | Jönköping Airport AB<br>Jönköping flygplats<br>SE-555 93 Jönköping<br>TEL: +46 (0)36 31 12 00<br>E-mail: info@jonkopingairport.se<br>AFS: ESGJZTZX<br>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.<br>PPR for commercial traffic and aircraft exceeding MTOM 4000 kg.<br>Requests shall be made during hours of AD administration to:<br>groundhandling@jonkopingairport.se or TEL: +46 (0)36 31 12 11. |

## ESGJ 2.3 OPERATIONAL HOURS

- |     |   |  |
|-----|---|--|
| 1.  | AD Administration<br>AD Operating hours | MON-FRI 0730-1530 (0630-1430)<br>Ref AIP SUP/NOTAM   |
| 2.  | Customs and immigration                 | O/R Customs TEL +46 (0)31 63 38 00, Immigration<br>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<br>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

**ESGJ 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 A 23 m ASPH PCN 55 F/B/X/T TWY B 23 m ASPH PCN 55 F/B/X/T
3.	ACL, location and elevation	See ESGJ 2-1
4.	VOR checkpoints	On TWY B
5.	INS checkpoints	-
6.	Remarks	TWY B max aircraft ref code 4C

**ESGJ 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 See ESGJ 2-1
2.	RWY and TWY markings and LGT	RWY 01/19: Designator, THR, TDZ, CL and edges are day marked. RTHL, REDL, RENL. 11/29: White flat rectangular markers, size 1m by 3m, no lights.  TWY A: CL, HLDG day marked. Edge lights, RGL B: CL, HLDG day marked. Edge lights, RGL
3.	Stop bars	-
4.	Remarks	-

## ESGJ 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
ESGJ1	NAVAID	574604.2N 0140430.0E	741 / -	-	-
ESGJ2	NAVAID	574607.4N 0140431.9E	745 / -	-	-
ESGJ3	VEGETATION	574618.8N 0140442.7E	755 / -	-	-
ESGJ4	NAVAID	574622.3N 0140438.0E	762 / -	-	-
ESGJ5	TREE	574629.1N 0140436.6E	773 / -	-	-
ESGJ6	TREE	574629.1N 0140437.1E	773 / -	-	-
ESGJ7	TREE	574629.2N 0140437.6E	778 / -	-	-
ESGJ8	TREE	574629.1N 0140438.1E	785 / -	-	-
ESGJ9	TREE	574631.2N 0140438.5E	791 / -	-	-
ESGJ10	TREE	574629.3N 0140454.4E	794 / -	-	-
ESGJ11	TREE	574632.7N 0140437.5E	805 / -	-	-
ESGJ12	TREE	574636.7N 0140459.7E	814 / -	-	-
ESGJ13	TREE	574703.4N 0140455.1E	848 / -	-	-
ESGJ14	TREE	574706.2N 0140451.2E	858 / -	-	-
ESGJ15	TREE	574706.5N 0140450.3E	859 / -	-	-
ESGJ16	TREE	574706.5N 0140450.8E	860 / -	-	-
ESGJ17	VEGETATION	574444.4N 0140346.6E	745 / -	-	-
ESGJ18	VEGETATION	574442.2N 0140346.1E	755 / -	-	-
ESGJ19	VEGETATION	574436.2N 0140328.1E	768 / -	-	-
ESGJ20	TREE	574421.9N 0140337.7E	804 / -	-	-
ESGJ21	TREE	574421.6N 0140338.1E	806 / -	-	-
ESGJ22	TREE	574419.5N 0140337.9E	810 / -	-	-
ESGJ23	TREE	574410.8N 0140314.0E	827 / -	-	-
ESGJ24	TREE	574410.3N 0140314.4E	828 / -	-	-
ESGJ25	TREE	574351.6N 0140316.2E	854 / -	-	-
ESGJ26	TREE	574346.0N 0140317.1E	863 / -	-	-
ESGJ27	TREE	574340.9N 0140319.7E	884 / -	-	-
ESGJ28	TREE	574204.6N 0140124.2E	1029 / -	-	-
ESGJ29	TREE	574204.5N 0140124.1E	1032 / -	-	-
ESGJ30	TREE	574203.1N 0140114.9E	1037 / -	-	-



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<br>MET Office outside hours  | H24  |
| 3. Office responsible for TAF preparation<br>Periods of validity, interval of issuance | STOCKHOLM/Arlanda<br>9 HR, <a href="https://tafplanner.smhi.se/app.php/production-program">https://tafplanner.smhi.se/app.php/production-program</a> |
| 4. Type of landing forecast<br>Interval of issuance                                    | Not issued   |
| 5. Briefing/consultation provided  | FPC H24, +46 (0)8 797 63 40, <a href="http://www.lfv.se/fpc">www.lfv.se/fpc</a>  |
| 6. Flight documentation<br>Language(s) used  | TAF, METAR, SIGMET, Upper air winds<br>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 013° 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 193° 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 109° MAG	525 x 25	PCN - GRASS	574513.16N 0140405.11E  GUND 108 ft	THR 737 ft
29	293.91° GEO 289° 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	-

DECLARED DISTANCES TAKE-OFF INTERSECTIONS						
RWY	INTERSECTION	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1		2	3	4	5	6
01	TWY A	1640	2090	1640	-	-

**ESGJ 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
01	Calvert CAT I 900 m LIH	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	Green	PAPI Left/3.00° (59.7 ft)	-	-	2203/50 m White Caution zone 600 m yellow LIH	Red	-

10 Remarks: -

**ESGJ 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY**

- |    |  |  |
|----|--|--|
| 1. | ABN/IBN location, characteristics and hours of operation | -  |
| 2. | LDI location and LGT<br>Anemometer location and LGT      | Windsock 780 m past THR 01 right side, lighted. Windsocks at RWY ends<br>390 m past THR 01 right side, lighted<br>540 m past THR 19 left side, lighted |
| 3. | TWY edge and centre line lighting                        | Edge: TWY A, B<br><br>CL: -  |
| 4. | Secondary power supply/switch-over time                  | Available/15 sec, during LVP less than 1 sec   |
| 5. | Remarks  | -  |

**ESGJ 2.16 HELICOPTER LANDING AREA**

RWY 01/19 and 11/29 to be used

## ESGJ 2.17 ATS AIRSPACE

1.	Designation and lateral limits	JÖNKÖPING CTR	575647N 0140456E - 575459N 0141548E - 575107N 0141718E - 574025N 0141020E - 573434N 0140322E - 573621N 0135304E - 574156N 0135209E - 575146N 0135801E - 575647N 0140456E
2.	Vertical limits	JÖNKÖPING CTR	2200 ft AMSL GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	JÖNKÖPING TOWER Swedish/English	
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	CTR established during hours of TWR.	

## ESGJ 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	JÖNKÖPING TOWER	118.255	HO	Primary channel VDF.
		121.500	HO	-

## ESGJ 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 (5° E 2020)	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 (5° E 2020)	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 (5° E 2020)	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)	821	023°/3232
19	Climb straight ahead to MNM turning ALT 1300 ft AMSL. Continue climb to appropriate MSA.	Tree (CIO) Terrain	854 906	205°/3548 195°/6730

## 4. Avbrott i radioförbindelse

Lufffartyg 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 lufffartyget 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 lufffartyget 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

Lufffartyget 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. Lägsiktsprocedurer (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 lufffartyg 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

## 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

Se ESGJ 6-1

6.4 Avbrott i radioförbindelse

Se ESGJ 6-1

See 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.

Instrumentinflygningsprocedurerna 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

AOC RWY 01/19

Area chart (TMA)

List of waypoints and significant points

RNAV (GNSS) SID RWY 01

RNAV (GNSS) SID RWY 19

RNAV (GNSS) STAR RWY 01

RNAV (GNSS) STAR RWY 19

SID/STAR RWY 01

SID STAR RWY 19

ATC Surveillance  
Minimum ALT chart

IAC ILS or LOC RWY 01

IAC NDB RWY 01

IAC ILS or LOC RWY 19

IAC NDB RWY 19

IAC RNP RWY 01

IAC RNP RWY 19

VAC

### RELATED CHARTS

ESGJ 2-1

ESGJ-3-1

ESGJ 4-1

ESGJ 4-3

ESGJ 4-5

ESGJ 4-7

ESGJ 4-9

ESGJ 4-11

ESGJ 4-13

ESGJ 4-15

ESGJ 4-91

ESGJ 5-1

ESGJ 5-2

ESGJ 5-3

ESGJ 5-4

ESGJ 5-5

ESGJ 5-9

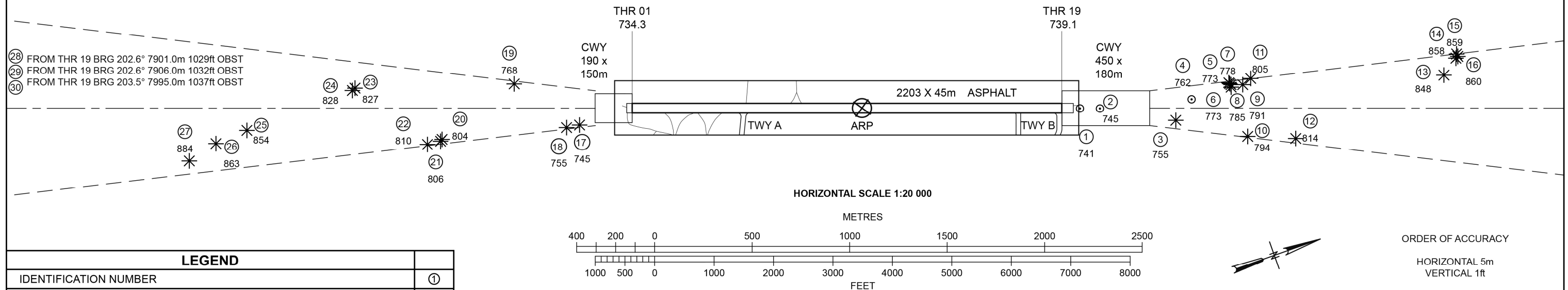
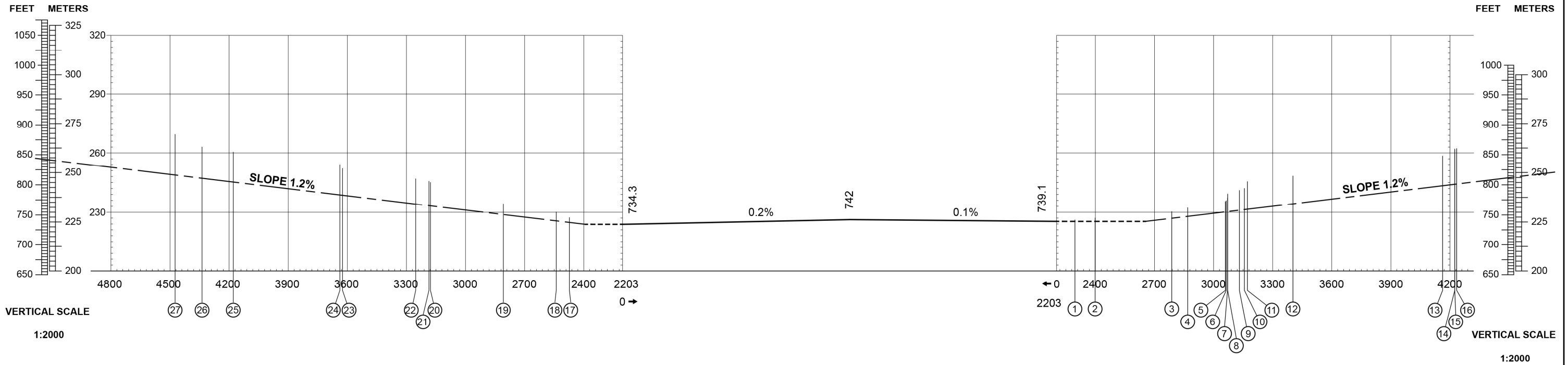
ESGJ 6-1



**AERODROME ELEVATION 742 FEET**  
MAGNETIC VARIATION 5° E 2020

**RUNWAY BEARINGS**  
01 = GEO 018.07°; MAG 013°  
19 = GEO 198.08°; MAG 193°

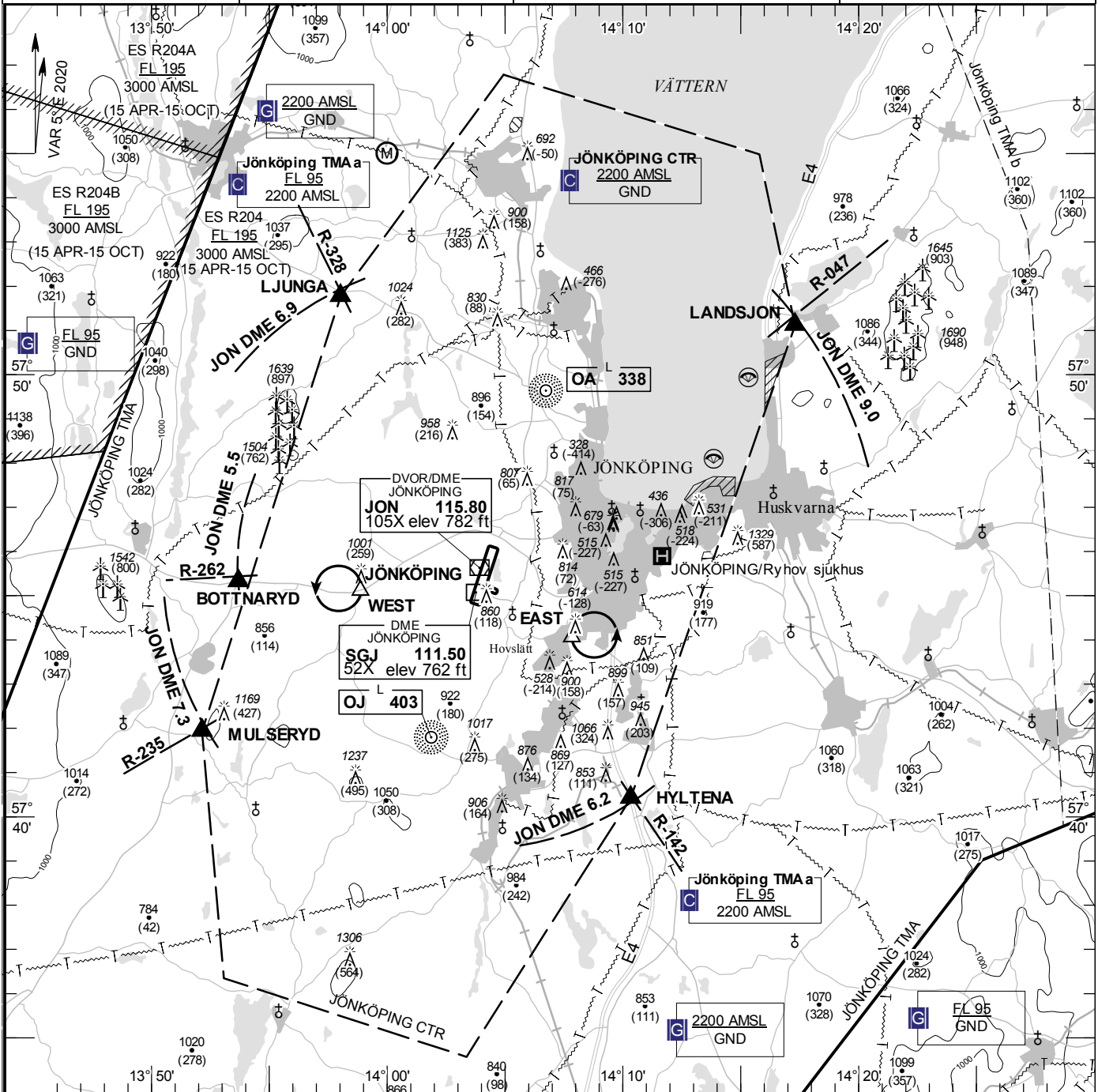
RWY 01	DECLARED DISTANCES	RWY 19
2203	TAKE-OFF RUN AVAILABLE	2203
2653	TAKE-OFF DISTANCE AVAILABLE	2393
2203	ACCELERATE DIST. AVAILABLE	2203
2203	LANDING DISTANCE AVAILABLE	2203



LEGEND	
IDENTIFICATION NUMBER	①
POLE, TOWER, SPIRE, ANTENNA, ETC.	○
TREE OR SHRUB	*
TERRAIN PENETRATING OBSTACLE PLANE	▲

ORDER OF ACCURACY  
HORIZONTAL 5m  
VERTICAL 1ft





**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



**AD 2 AERODROMES****ESMQ 2.1 AERODROME LOCATION INDICATOR AND NAME****ESMQ – KALMAR****ESMQ 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

- |    |  |  |
|----|--|--|
| 1. | ARP coordinates and site at AD               | 564108N 0161715E RWY 640 m from THR 34   |
| 2. | Direction and distance from (city)           | WNW 2.5 NM from Kalmar   |
| 3. | Elevation/Reference temperature              | 18 ft/+18.5°C  |
| 4. | Geoid undulation at AD ELEV PSN              | 100 ft   |
| 5. | MAG VAR/Annual change                        | 6° E 2020/+0.2 increasing  |
| 6. | Administration, address, telephone, fax, AFS | KalmarOland Airport AB<br>SE-392 41 Kalmar<br>TEL: +46 (0)10 357 48 00<br>FAX: +46 (0)10 357 48 05<br>E-mail: flyget@kalmarairport.se<br>AFS: ESMQZTZX<br>Website: www.kalmarolandairport.se |
| 7. | Types of traffic permitted (IFR/VFR)         | IFR/VFR. Max RWY ref code 4E   |
| 8. | Remarks                                      | PPR for all traffic outside TWR HR of OPS. Apply for PPR via kalmarolandairport.se   |

**ESMQ 2.3 OPERATIONAL HOURS**

- |     |   |   |
|-----|---|---|
| 1.  | AD Administration<br>AD Operating hours | MON-FRI 0700-1600 (0600-1500)<br>H24  |
| 2.  | Customs and immigration                 | O/R TEL +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   |
| 8.  | Fuelling                                | As ATS  |
| 9.  | Handling                                | As ATS  |
| 10. | Security                                | As ATS  |
| 11. | De-Icing                                | As ATS  |
| 12. | Remarks                                 | Increased charges outside TWR HR of OPS.<br>Extended operational hours occurs frequently. |

**ESMQ 2.4 HANDLING SERVICES AND FACILITIES**

1.	Cargo-handling facilities	Available by arrangement
2.	Fuel/oil types	Fuel Jet A1, UL 91 Oil -
3.	Fuelling facilities/discharge capacity	Jet A1: 120,000 l UL 91: -
4.	De-icing facilities	Type I and II, mobile unit
5.	Hangar space for visiting ACFT	-
6.	Repair facilities for visiting ACFT	-
7.	Remarks	Fuel supplier AirBP

**ESMQ 2.5 PASSENGER FACILITIES**

1.	Hotels	In Kalmar
2.	Restaurants	At AD
3.	Transportation	Airport buses, taxis, rental cars
4.	Medical facilities	In Kalmar
5.	Bank and Post Office	In Kalmar
6.	Tourist Office	In Kalmar
7.	Remarks	-

**ESMQ 2.6 RESCUE AND FIRE FIGHTING SERVICES**

1.	AD category for fire fighting	CAT 6. For commercial traffic exceeding 2500 kg MTOM 180 sec. CAT 7 O/R
2.	Rescue equipment	By arrangement, municipal rescue service
3.	Capability for removal of disabled aircraft	By arrangement, contact airport duty officer TEL +46 (0)10 357 49 93.
4.	Remarks	-

**ESMQ 2.7 SEASONAL AVAILABILITY – CLEARING**

1.	Types of clearing equipment	Snowploughs, blowers, sweepers, slinger
2.	Clearance priorities	RWY, TWY, Apron
3.	Remarks	RWY 05/23 not cleared during winter season

**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<br>SE-655 91 Karlstad<br>TEL: +46 (0)54 540 77 14<br>FAX: +46 (0)54 53 23 06<br>E-mail: karlstadairport@karlstad.se<br>AFS: ESOKZTZX<br>Website: www.ksdarpst.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.   |

**ESOK 2.3 OPERATIONAL HOURS**

- |     |   |  |
|-----|---|--|
| 1.  | AD Administration<br>AD Operating hours | MON-FRI 0700-1500 (0600-1400)<br>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:<br>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	For payment of fuel all major credit cards are accepted. Handling: Karlstad Airport Fax +46 (0)54 53 23 06

**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



**AD 2 AERODROMES****ESMK 2.1 AERODROME LOCATION INDICATOR AND NAME****ESMK – KRISTIANSTAD****ESMK 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

- |    |  |   |
|----|--|---|
| 1. | ARP coordinates and site at AD               | 555514N 0140507E RWY 950 m inwards THR 01   |
| 2. | Direction and distance from (city)           | S 7.5 NM from Kristianstad  |
| 3. | Elevation/Reference temperature              | 77 ft/+18.5°C   |
| 4. | Geoid undulation at AD ELEV PSN              | 115 ft  |
| 5. | MAG VAR/Annual change                        | 6° E 2025/+0.2 increasing   |
| 6. | Administration, address, telephone, fax, AFS | Kristianstad Airport AB<br>SE-297 92 Everöd<br>TEL: +46 (0)44 23 88 00<br>FAX: +46 (0)44 23 88 78<br>E-mail: info@kidairport.com<br>AFS: ESMKZTZX<br>Website: www.kidairport.com                        |
| 7. | Types of traffic permitted (IFR/VFR)         | IFR/VFR. Max RWY ref code 4C  |
| 8. | Remarks                                      | PPR request for all IFR shall be made via AD e-mail during AD Administration hours.<br>PN compulsory for VFR outside TWR hours, fill in PN form at <a href="http://www.krfk.se/pn">www.krfk.se/pn</a> . |

**ESMK 2.3 OPERATIONAL HOURS**

- |     |   |   |
|-----|---|---|
| 1.  | AD Administration<br>AD Operating hours | As ATS<br>As ATS  |
| 2.  | Customs and immigration                 | O/R   |
| 3.  | Health and sanitation                   | -   |
| 4.  | AIS Briefing Office                     | FPC H24, +46 (0)8 797 63 40, <a href="http://www.lfv.se/fpc">www.lfv.se/fpc</a> |
| 5.  | ATS Reporting Office (ARO)              | As ATS  |
| 6.  | MET Briefing Office                     | FPC H24, +46 (0)8 797 63 40, <a href="http://www.lfv.se/fpc">www.lfv.se/fpc</a> |
| 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                                 | Increased charges outside TWR HR of OPS   |

**ESMK 2.4 HANDLING SERVICES AND FACILITIES**

1.	Cargo-handling facilities	Available by arrangement
2.	Fuel/oil types	Fuel Jet A1, 91 UL Oil -
3.	Fuelling facilities/discharge capacity	Jet A1: 150,000 l, fuel truck 91 UL: 20,000 l
4.	De-icing facilities	Available, Type I and II, mobile unit
5.	Hangar space for visiting ACFT	-
6.	Repair facilities for visiting ACFT	-
7.	Remarks	Fuel supplier Air BP. For 91 UL Air Bp Sterlingcard is necessary. Handling channel 131.805

**ESMK 2.5 PASSENGER FACILITIES**

1.	Hotels	In Kristianstad
2.	Restaurants	In Kristianstad
3.	Transportation	Buses, taxis, rental cars
4.	Medical facilities	In Kristianstad
5.	Bank and Post Office	In Kristianstad
6.	Tourist Office	In Kristianstad
7.	Remarks	-

**ESMK 2.6 RESCUE AND FIRE FIGHTING SERVICES**

1.	AD category for fire fighting	CAT 6, CAT 7 O/R
2.	Rescue equipment	By arrangement, municipal rescue service
3.	Capability for removal of disabled aircraft	By arrangement
4.	Remarks	-

**ESMK 2.7 SEASONAL AVAILABILITY – CLEARING**

1.	Types of clearing equipment	Sweepers, blowers, spreaders, slinger, snowploughs
2.	Clearance priorities	RWY, TWY, Apron
3.	Remarks	-

**ESMK 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA**

1.	Apron surface and strength	Apron ASPH PCN 45 F/B/X/T
2.	Taxiway width, surface and strength	TWY A 23 m ASPH PCN 45 F/B/X/T TWY B 23 m ASPH PCN 45 F/B/X/T TWY C 7.5 m ASPH PCN - TWY D 7.5 m ASPH+GRASS PCN -
3.	ACL, location and elevation	Apron 73 ft
4.	VOR checkpoints	-
5.	INS checkpoints	-
6.	Remarks	-

**ESMK 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 01/19: 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 C: CL, HLDG day marked. RGL D: CL day marked
3.	Stop bars	-
4.	Remarks	-

**ESMK 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
ESMK1	Forest	555603.8N 0140523.2E	115 / -	-	-
ESMK2	Shrub	555428.4N 0140501.5E	98 / -	-	-
ESMK3	Forest	555426.9N 0140450.5E	122 / -	-	-
ESMK4	Forest	555423.1N 0140450.1E	132 / -	-	-
ESMK5	Forest	555422.3N 0140457.8E	134 / -	-	-
ESMK6	Forest	555417.1N 0140501.3E	148 / -	-	-
ESMK7	Forest	555415.6N 0140501.2E	160 / -	-	-
ESMK8	Forest	555413.5N 0140458.4E	163 / -	-	-
ESMK9	Forest	555414.2N 0140445.4E	164 / -	-	-
ESMK10	Forest	555046.7N 0140318.1E	535 / -	-	-

In Area 3					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
Not available					

**ESMK 2.11 METEOROLOGICAL INFORMATION PROVIDED**

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

**ESMK 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	007.15° GEO 001° MAG	2215 x 45	PCN 45 F/B/X/T ASPH	555442.49N 0140459.97E  GUND 114 ft	THR 77 ft
19	187.15° GEO 181° MAG	2215 x 45	PCN 45 F/B/X/T ASPH	555553.60N 0140515.86E  GUND 114.1 ft	THR 73.8 ft TDZ 73.8 ft
Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
01 See ESMK AOC	-	250 x 180	2335 x 300	-	-
19 See ESMK AOC	-	350 x 180	2335 x 300	-	-

## ESMK 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
01	2215	2465	2215	2215	-
19	2215	2565	2215	2215	-

## DECLARED DISTANCES TAKE-OFF INTERSECTIONS

RWY Designator	INTERSECTION	TORA (m)	TODA (m)	ASDA (m)	Remarks	
1		2	3	4	5	6
01	TWY A	1050	1300	1050	-	-
01	TWY B	848	1098	848	-	-
01	TWY C	923	1173	923	-	-
19	TWY A	1189	1539	1189	-	-
19	TWY B	1390	1740	1390	-	-
19	TWY C	1300	1650	1300	-	-

## ESMK 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
01	-	Green	PAPI Left/3.00° (50.3 ft)	-	-	2215/60 m White Caution zone 600 m yellow LIH	Red	-
19	Calvert CAT I 900 m LIL/LIH	Green	PAPI Left/3.25° (59.0 ft)	-	-	2215/60 m White Caution zone 600 m yellow LIH	Red	-

10 Remarks: RWY 01: TRID FLG W LIH  
RWY 19: EFAS 870-330 m before THR and crossbar 3:c

## ESMK 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 THR 01 and THR 19  
870 m N THR 01 and S of ILS GP, lighted
3. TWY edge and centre line lighting Edge: TWY A, B  
CL: -
4. Secondary power supply/switch-over time Available/15 sec.  
RVR below 800 m and during LVP: Available/1 sec.
5. Remarks -

## ESMK 2.16 HELICOPTER LANDING AREA

RWY 01/19 to be used

## ESMK 2.17 ATS AIRSPACE

- |    |                                   |                                     |   |
|----|-----------------------------------|-------------------------------------|---|
| 1. | Designation and lateral limits    | KRISTIANSTAD CTR                    | 560800N 0140150E - 560730N 0141435E -<br>555438N 0141600E - 554350N 0140830E -<br>554418N 0135720E - 555616N 0135536E -<br>560800N 0140150E |
| 2. | Vertical limits                   | KRISTIANSTAD CTR                    | 1700 ft AMSL<br><hr/> GND   |
| 3. | Airspace classification           | C                                   |   |
| 4. | ATS unit call sign<br>Language(s) | KRISTIANSTAD TOWER                  | Swedish/English   |
| 5. | Transition altitude               | 5000 ft AMSL                        |   |
| 6. | Remarks                           | CTR established during hours of TWR |   |

## ESMK 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/ Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	KRISTIANSTAD TOWER	129.355	HO	Primary channel
		121.500	HO	-

## ESMK 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
L 01	KD	375 kHz	H24 *	555216.5N 0140441.4E		Range 15 NM
LOC 19 ILS CAT I (6° E 2025)	MK	108.50 MHz	H24 *	555429.6N 0140457.1E		402 m beyond THR 01 ILS Class I/E/2
GP		329.90 MHz	H24 *	555544.4N 0140506.5E		Angle 3.25° RDH 51.8 ft 303 m past THR 19 right side
NDB 19	OEM	363 kHz	H24 *	555923.1N 0140603.1E		Range 30 NM
DME	MK	108.50 MHz	H24 *	555544.3N 0140506.7E	88 ft	DME channel 22X

\* Monitoring of signal in space limited to ATS HR of OPS

**ESMK 2.20 LOKALA TRAFIKFÖRESKRIFTER**

## 1. Allmänt

Trafik med luftfartyg med MTOM överstigande 5700 kg skall efter start RWY 19 stiga rakt fram till 1500 ft innan sväng påbörjas. För trafik med MTOM 5700 kg eller mindre gäller högervarv efter start då RWY 19 är i användning.

## 2. Användning av APU

## Ankomst

APU skall stängas av snarast efter parkering.

## Avgång

APU får startas först efter tecken från markpersonalen. Då utomhustemperaturen överstiger 25°C, får APU startas tidigast 10 min före beräknad tid för taxning.

## 3. Parkering utanför ATS öppethållning

Parkering på plattan endast tillåtet under ATS öppethållning. Undantag för SAR, ambulans och polis.

## 4. Fordonstrafik på manöverområdet

Fordonstrafik kan förekomma på manöverområdet utanför ATS öppethållning.

**LOCAL TRAFFIC REGULATIONS**

## 1. General

Aircraft having a MTOM exceeding 5700 kg shall, on take-off RWY 19, climb straight ahead to 1500 ft until turn is initiated. For traffic with MTOM 5700 kg or below, right hand circuit applies after departure when RWY 19 is in use.

## 2. Use of APU

## Arrival

APU shall be shut down soonest after parking.

## Departure

APU shall not be started until OK from ground crew. When the outside temperature exceeds 25°C, APU may be started not earlier than 10 min before estimated time for taxiing.

## 3. Parking outside ATS operational hours

Parking on apron outside ATS operational hours is not allowed. Exceptions for SAR, ambulance and police.

## 4. Vehicle traffic on manoeuvring area

Vehicle traffic may occur on the manoeuvring area outside ATS operational hours.

**ESMK 2.21 MINSKNING AV BULLERSTÖRNING**

Flygning över Everöds samhälle bör undvikas.

**NOISE ABATEMENT PROCEDURES**

Overflying the community of Everöd should be avoided.

**ESMK 2.22 FLYGPROCEDURER**

## 1. Startprocedurer, omnidirectional

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
01	Climb straight ahead to MNM turning ALT 500 ft AMSL. Continue climb to appropriate MSA.	Windmill CIO exist	1027	239°/7740
19	Climb straight ahead with MNM 230 ft/NM (3.8%) to MNM turning ALT 1000 ft AMSL. Continue climb to appropriate MSA.	Antenna CIO exist	853	206°/11530

## 2. 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.

Lägsta RVR för avgående trafik är 400 m.

Vid RVR mellan 400 m och 300 m, är start endast tillåten om operatören har tillstånd för flygplatstrafik i starkt nedsatt sikt från Transportstyrelsen eller annan behörig myndighet.

När LVP tillämpas skall luftfartyg meddela lämnande av manöverområdet genom att anmäla framme på avsedd parkeringsplats.

## 1. Omnidirectional departure procedures

## 2. 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.

Minimum RVR for departing traffic is 400 m.

At RVR between 400 m and 300 m, TKOF is only permitted if the operator has permission for Low Visibility Operations from The Swedish Transport Agency or other competent authority.

When LVP is applied aircraft shall report RWY vacated at stand.

## 3. VFR-flygning inom KRISTIANSTAD CTR

Normala in- och utpasseringspunkter  
Se ESMK 6-1

Väntråge  
Se ESMK 6-1

Avbrott i radioförbindelse  
Se ESMK 6-1

Observera höga vindkraftverk mellan inpasseringspunkt  
Sydväst och flygplatsen.

4. Instrumentinflygningsprocedurerna får inte användas  
utanför ATS öppethållning.

## 3. VFR flight within KRISTIANSTAD CTR

Normal entry and exit points  
See ESMK 6-1

Holding point  
See ESMK 6-1

Communication failure  
See ESMK 6-1

Observe group of high wind turbines between entrypoint  
Southwest and the aerodrome.

4. Instrument approach procedures may not be used  
outside ATS hours of operation.

**ESMK 2.23 ÖVRIG INFORMATION**

Reducerad banseparation tillämpas enligt AD 1.1 mom 10.

**ADDITIONAL INFORMATION**

Reduced runway separation applies in accordance with  
AD 1.1 para 10.

**ESMK 2.24 TILLHÖRANDE KARTOR**

AD chart	
AOC	RWY 01/19
Area Chart	(TMA)
List of waypoints and significant points	
ATC Surveillance	
Minimum ALT chart	
IAC	ILS or LOC RWY 19
IAC	NDB RWY 19
IAC	NDB RWY 01
IAC	RNP RWY 01
IAC	RNP RWY 19
VAC	

**RELATED CHARTS**

ESMK 2-1  
ESMK 3-1  
ESMK 4-1  
ESMK 4-3  
ESMK 4-91  
ESMK 5-1  
ESMK 5-2  
ESMK 5-3  
ESMK 5-5  
ESMK 5-9  
ESMK 6-1

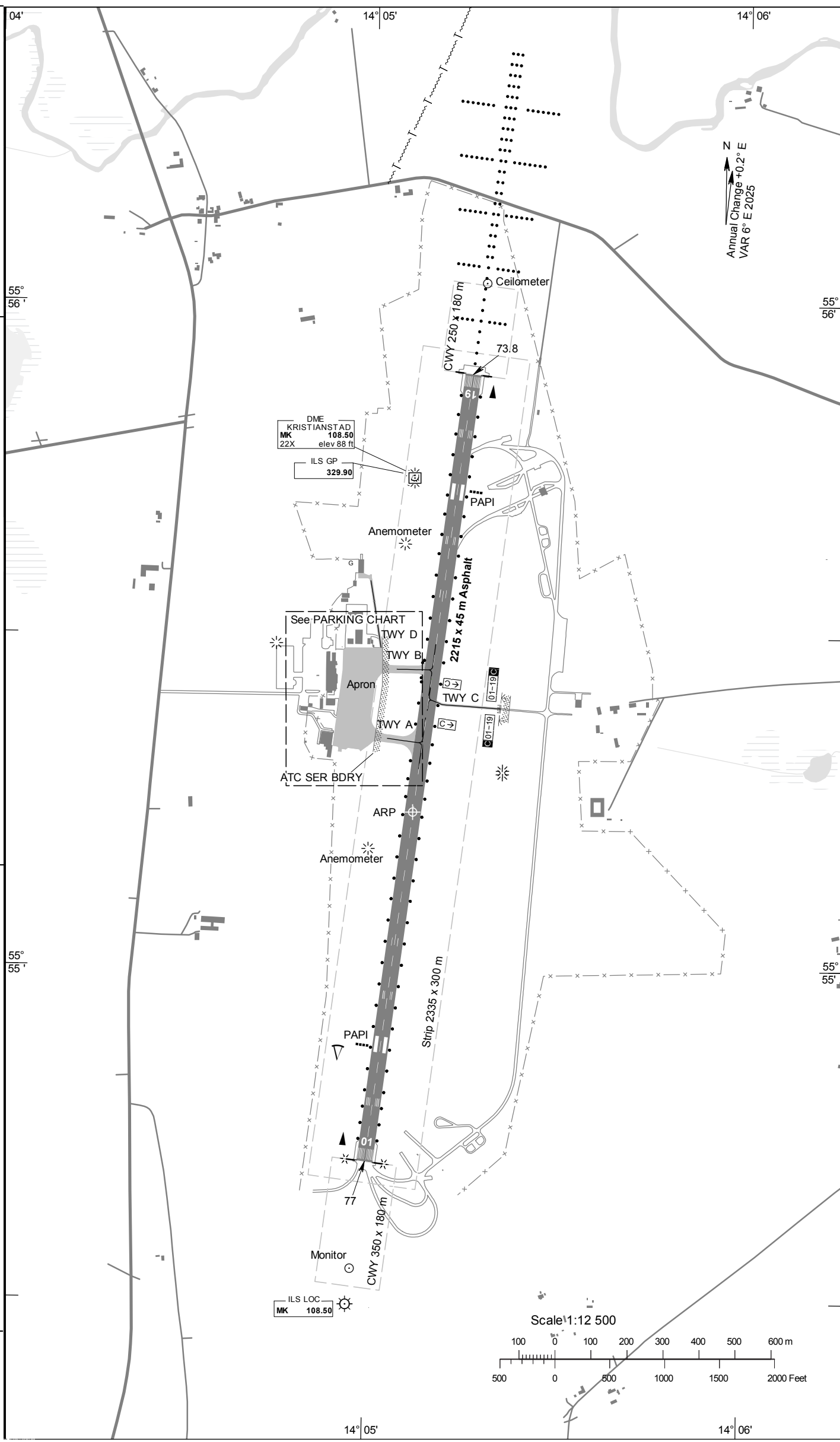


ARP 555514N 0140507E

AD ELEV 77 FEET

LEGEND See GEN 2.3

Dimensions in m, ELEV in ft

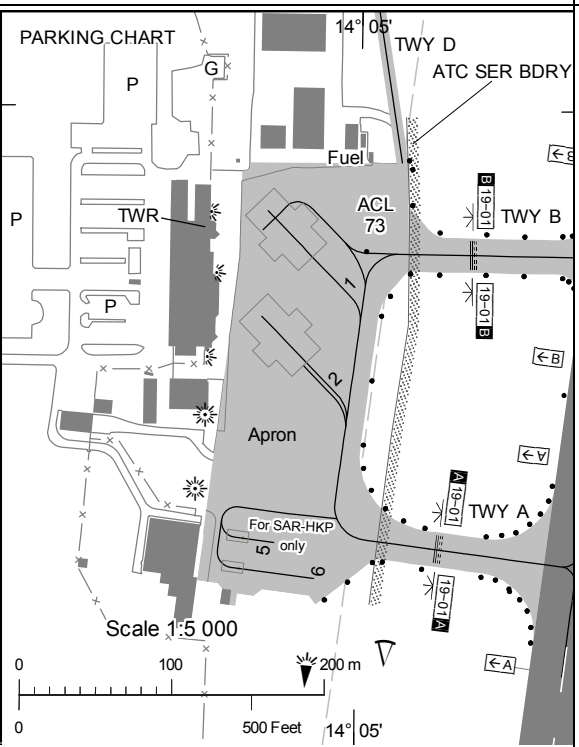


TWY NR	WIDTH	Surface Bearing strength	Day marking		Taxiway lighting	
			Centerline Holding	Edge Centerline	RGL Stopbar	RGL
A	23 m	ASPH PCN 45 F/B/X/T	CL HLDG	EDGE	RGL	RGL
B	23 m	ASPH PCN 45 F/B/X/T	CL HLDG	EDGE	RGL	RGL
C	7.5 m	ASPH	CL HLDG			RGL
D	7.5 m	ASPH+GRASS	CL			

INS Coordinates for Aircraft Stands			
APRON Surface Bearing strength	NR	COORD	ELEV
Apron ASPH PCN 45 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)	Edge	End
01	007.15° GEO 001° MAG	555442.49N 0140459.97E GUND 114 ft	PCN 45 F/B/X/T	THR 77 ft	2215	2465	2215	2215		THR Green TRID LIH	PAPI Left/3.00° (50.3 ft)	2215/60 m White Caution zone 600 m yellow LIH	Red
19	187.15° GEO 181° MAG	555553.60N 0140515.86E GUND 114.1 ft	PCN 45 F/B/X/T	THR 73.8 ft TDZ 73.8 ft	2215	2565	2215	2215	Calvert Cat I 900 m LIL/LIH	THR Green	PAPI Left/3.25° (59.0 ft)	2215/60 m White Caution zone 600 m yellow LIH	Red

REMARK: Electronic Flashing System lights to RWY 19 (870-330 m before THR) and crossbar 3:c.





DIMENSIONS IN METRES  
ELEVATIONS IN FEET

**AERODROME OBSTACLE CHART-ICAO**  
TYPE A-OPERATING LIMITATIONS

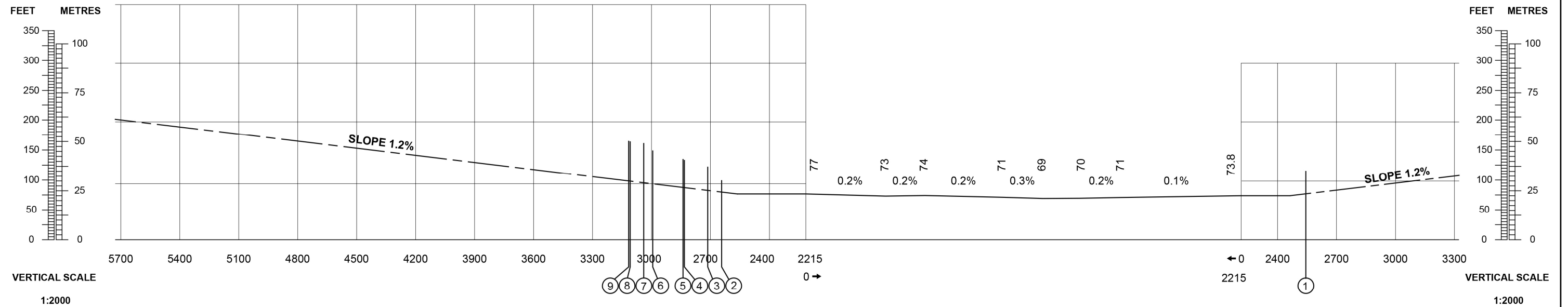
**KRISTIANSTAD**  
**SWEDEN**

**AD 2-ESMK-3-1**  
**RWY 01/19**

**AERODROME ELEVATION 77 FEET**  
MAGNETIC VARIATION 6° E 2025

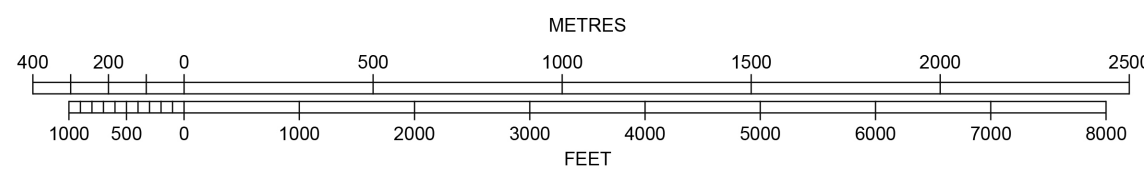
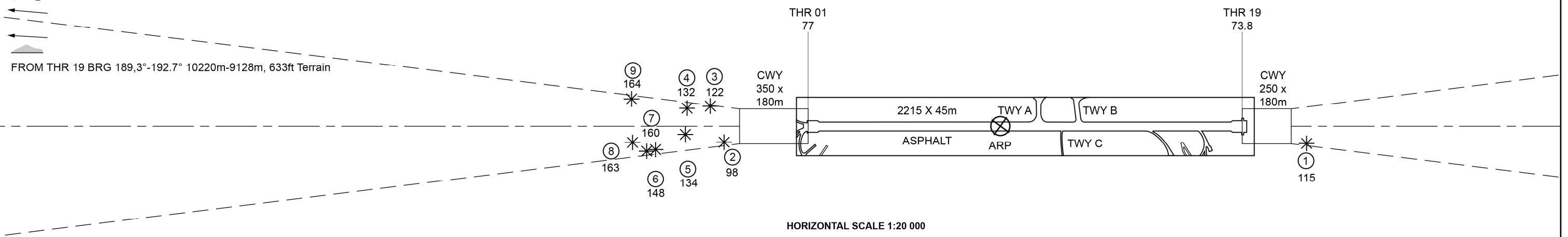
**RUNWAY BEARINGS**  
01 = GEO 007.15°; MAG 001°  
19 = GEO 187.15°; MAG 181°

RWY 01	DECLARED DISTANCES	RWY 19
2215	TAKE-OFF RUN AVAILABLE	2215
2465	TAKE-OFF DISTANCE AVAILABLE	2565
2215	ACCELERATE DIST. AVAILABLE	2215
2215	LANDING DISTANCE AVAILABLE	2215



\* ⑩ FROM THR 19 BRG 192.1° 9710.0m 535ft OBST

FROM THR 19 BRG 189.3°-192.7° 10220m-9128m, 633ft Terrain



ORDER OF ACCURACY  
HORIZONTAL 5 m  
VERTICAL 1 ft

LEGEND	
IDENTIFICATION NUMBER	②
POLE, TOWER, SPIRE, ANTENNA, ETC.	○
TREE OR SHRUB	*
TERRAIN PENETRATING OBSTACLE PLANE	▲

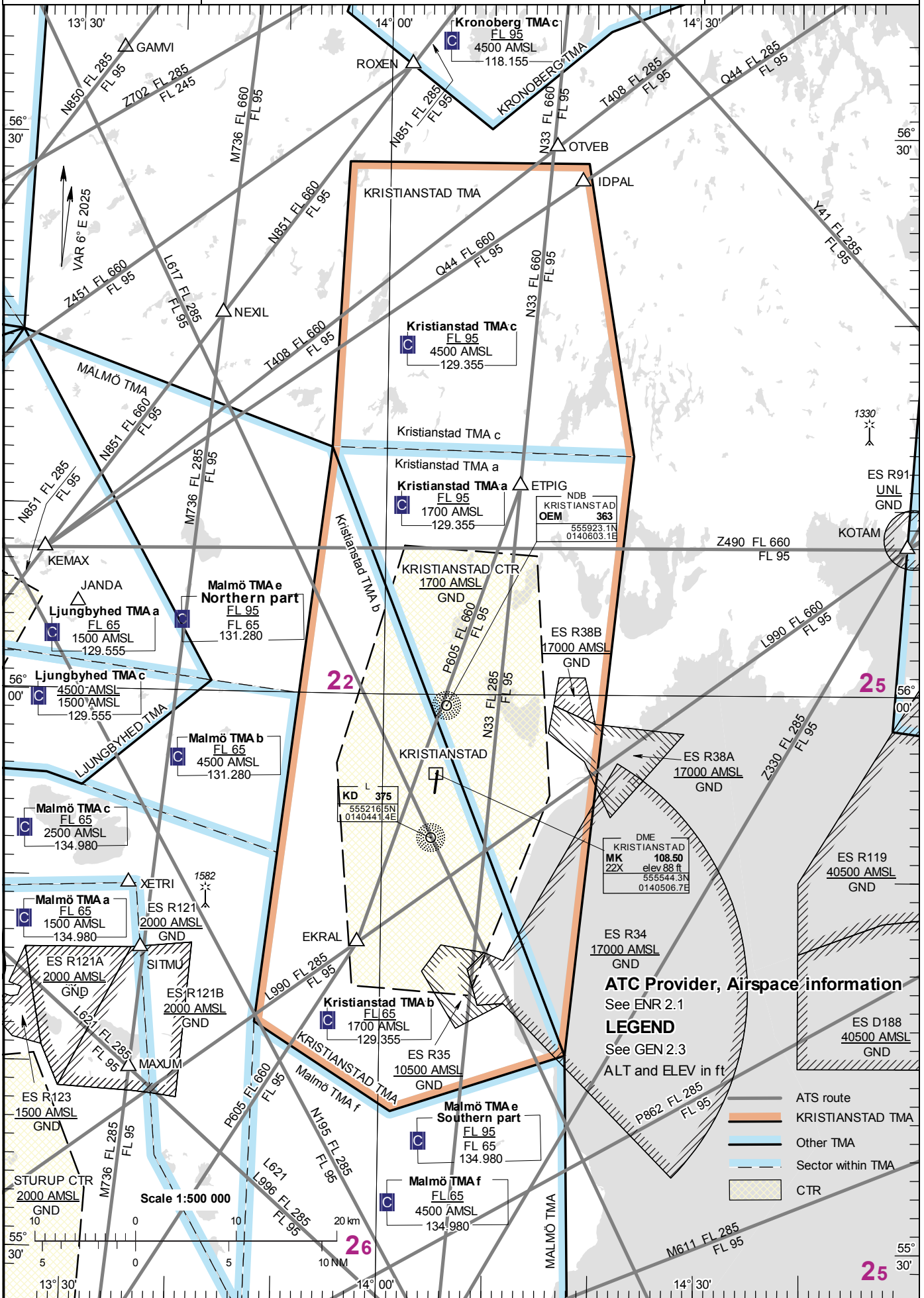
LFV

CHANGE: VAR, ELEV IN FEET

AIRAC AMDT 5/2024

**ESMK-AOC 01/19**  
**08 AUG 2024**





**ATC Provider, Airspace information**

See ENR 2.1

**LEGEND**

See GEN 2.3

ALT and ELEV in ft

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

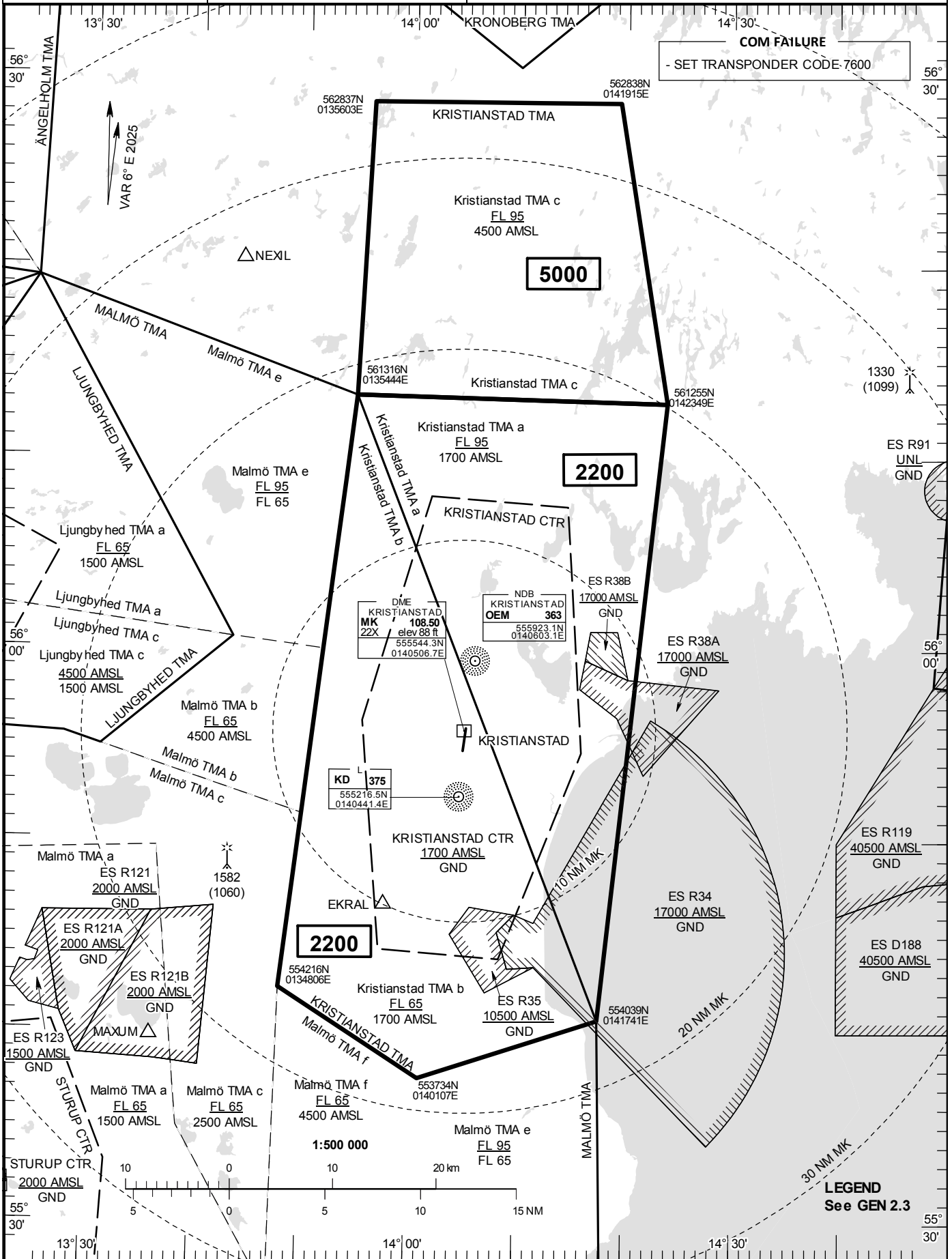
Scale 1:500 000



AD ELEV 77 FEET  
HGT and ALT in ft  
TA 5000 AMSL

KRISTIANSTAD TOWER 129.355

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





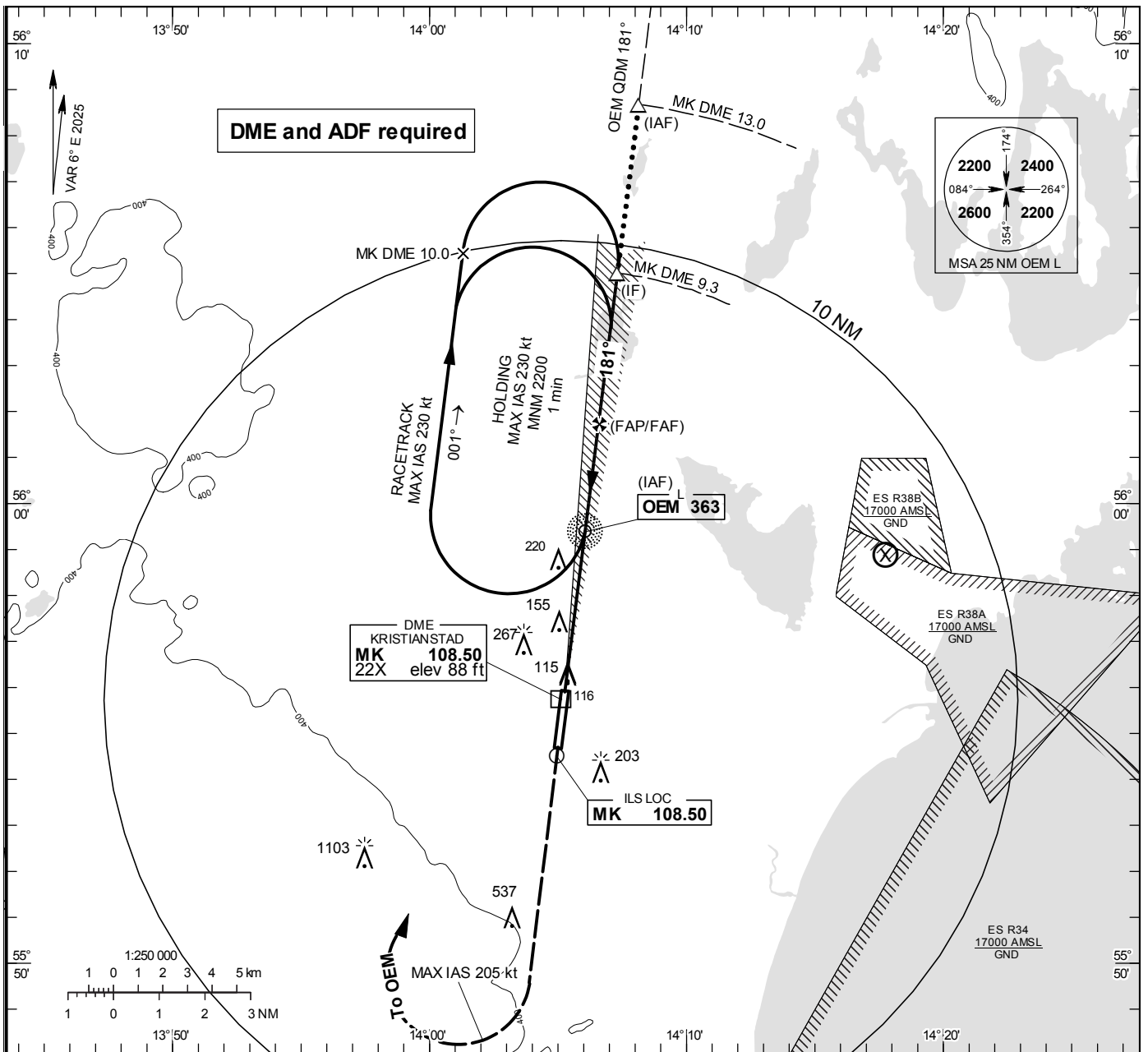


**INSTRUMENT APPROACH CHART – ICAO**

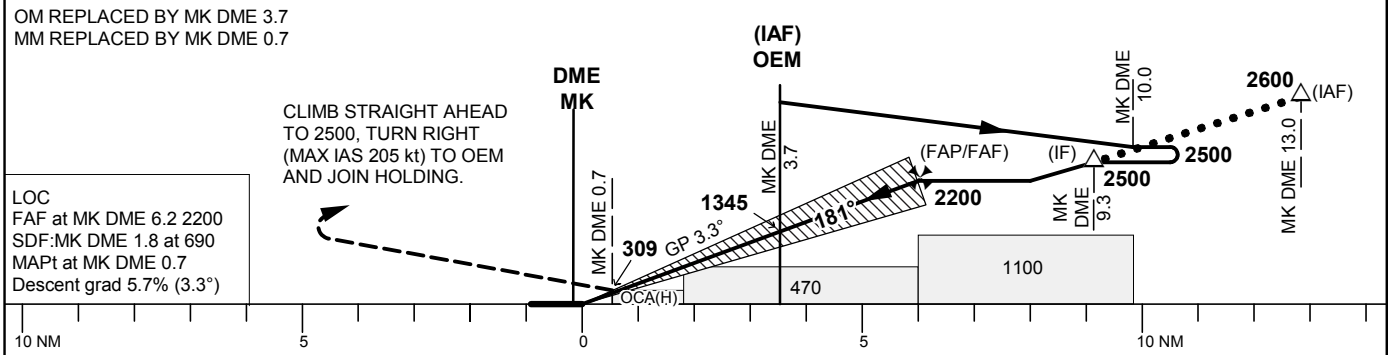
THR ELEV 73.8 ft, AD ELEV 77 ft  
 OCH are related to THR.  
 Circling OCH are related to AD ELEV.  
 BRG are MAG  
 ALT, HGT and ELEV in ft.

KRISTIANSTAD TOWER 129.355

ILS or LOC RWY 19



TA 5000 ft AMSL RDH 51.8 ft Max speed within racetrack 230 kt IAS \* Timing not authorized for defining the MAPt



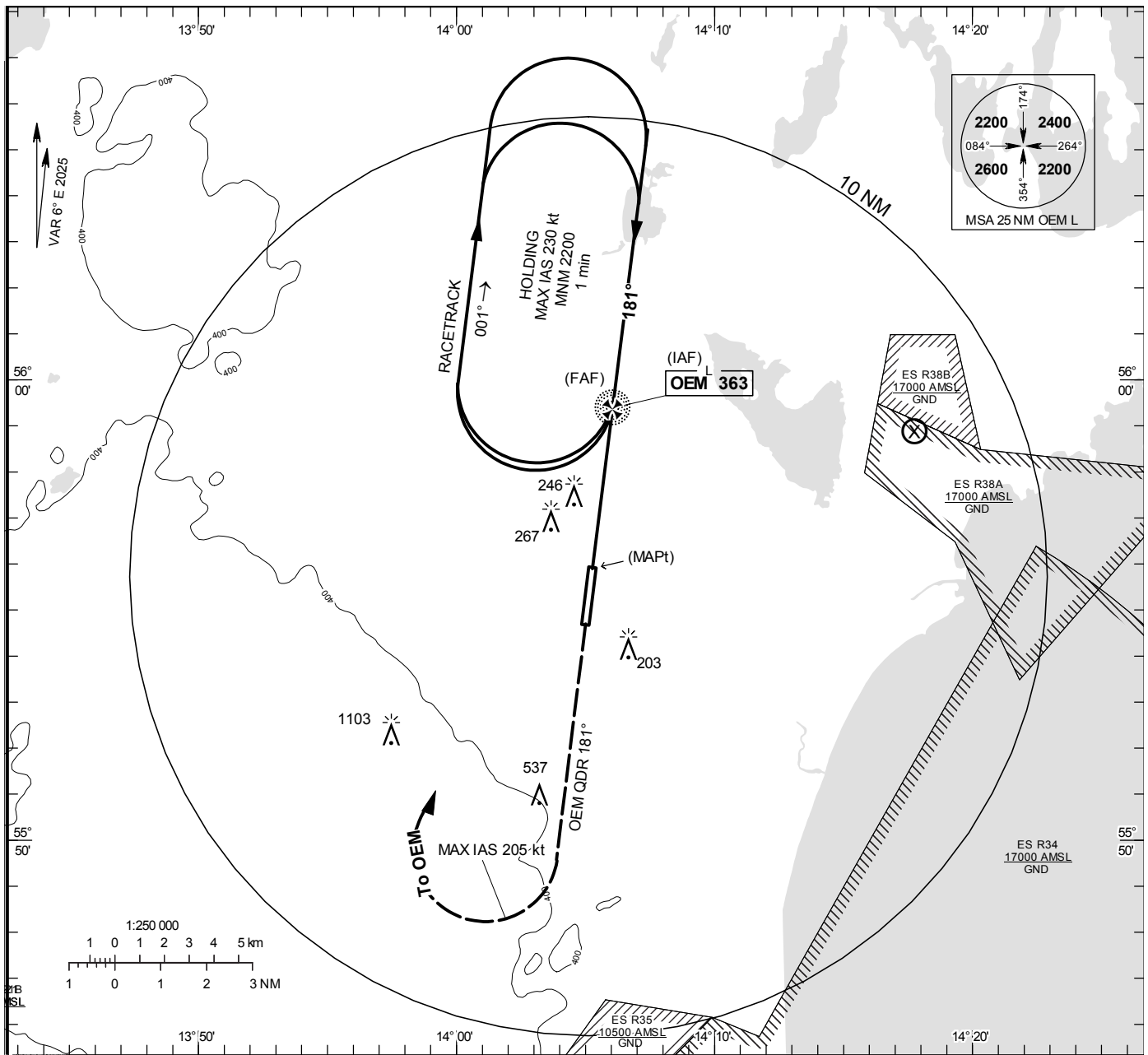
OCA (H)					Final approach	LOC Distance FAF-MAPt 5.5 NM*						
Cat of ACFT	A	B	C	D	DME MK NM	1	2	3	4	5	6	
Straight-in Approach	CAT	225(151)	232(158)	241(167)	251(177)	410	760	1100	1450	1790	2140	
	LOC	410(340)				GS	Kt	80	100	120	140	160
Circling	570(500)	570(500)	940(870)	1500(1430)	Time	min:s	4:07	3:17	2:44	2:21	2:03	1:50
Circling E RWY	500(430)	570(500)	940(870)	940(870)	Rate of descent	ft/min	460	575	690	805	920	1035

NDB RWY 19

KRISTIANSTAD TOWER 129.355

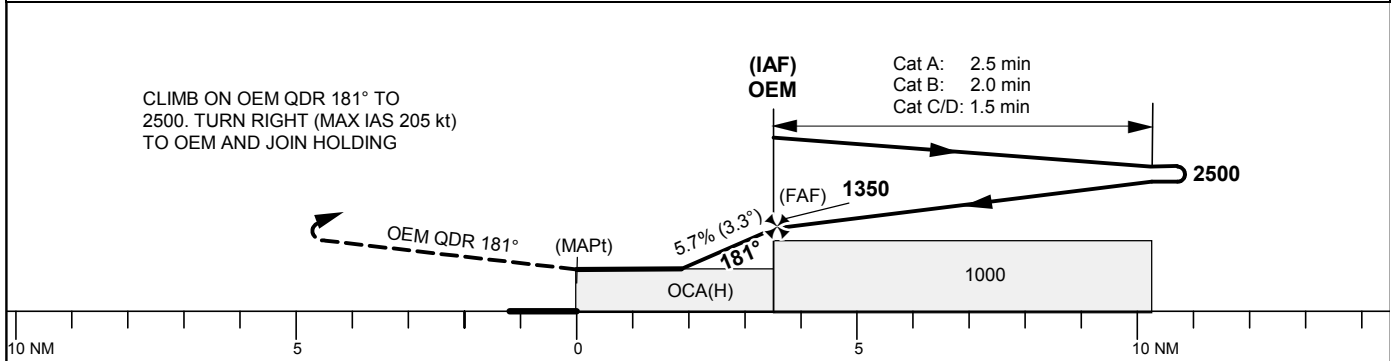
THR ELEV 73.8 ft, AD ELEV 77 ft  
OCH are related to THR.  
Circling OCH are related to AD ELEV.  
BRG are MAG  
ALT, HGT and ELEV in ft.

INSTRUMENT  
APPROACH  
CHART – ICAO



TA 5000 ft AMSL

MAX speed within racetrack 230 kt IAS



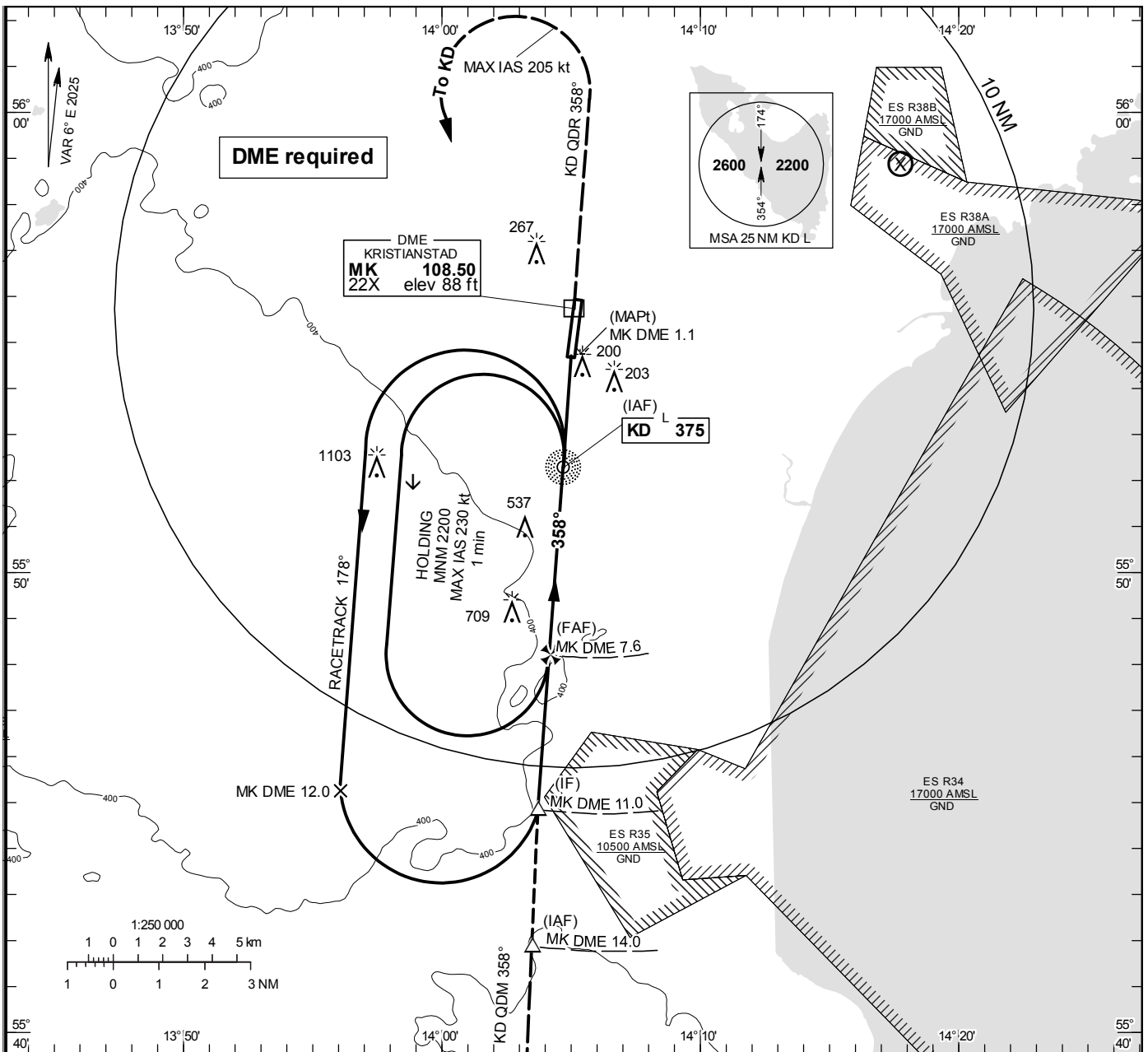
OCA (H)					Final approach	Distance FAF-MAPt 3.5 NM						
Cat of ACFT	A	B	C	D	DME MK NM	2			3			
Straight-in Approach	500(430)				ALT	760						
Circling	570(500)	570(500)	940(870)	1500(1430)	GS	80	100	120	140	160	180	
Circling E RWY	500(430)	570(500)	940(870)	940(870)	Time	min:s	2:39	2:07	1:46	1:31	1:19	1:11
					Rate of descent	ft/min	460	575	690	805	920	1035

**INSTRUMENT  
APPROACH  
CHART – ICAO**

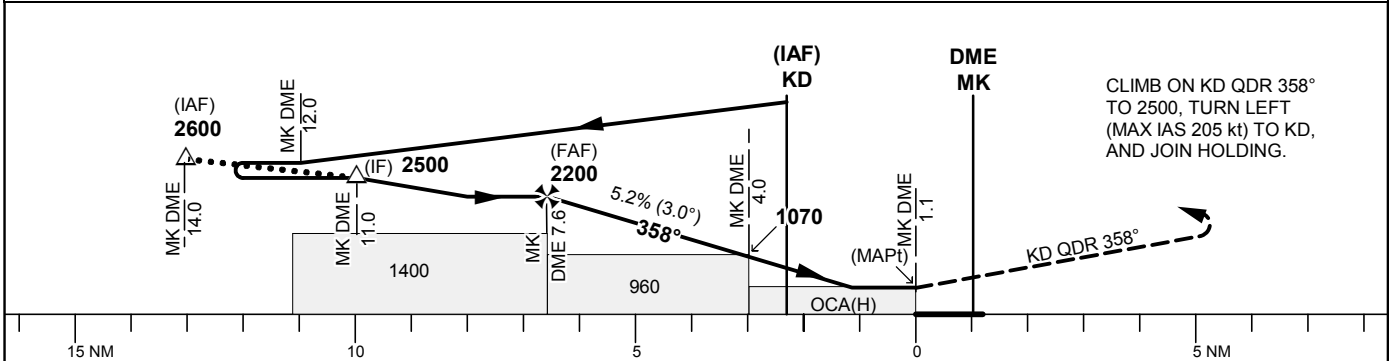
**THR ELEV 77 ft, AD ELEV 77 ft**  
 OCH are related to THR.  
 Circling OCH are related to AD ELEV.  
 BRG are MAG  
 ALT. HGT and ELEV in ft.

KRISTIANSTAD TOWER 129.355

**NDB RWY 01**



**TA 5000 ft AMSL**      No turns before MAPt      Final APCH line offset 3°      \*Timing not authorized for defining the MAPt



OCA (H)					Final approach	Distance FAF-MAPt 6.5 NM*						
Cat of ACFT	A	B	C	D	DME MK NM	7	6	5	4	3		
Straight-in approach	450 (380)				ALT	2030	1710	1390	1070	750		
Circling	570(500)	570(500)	940(870)	1500(1430)	GS	kt	80	100	120	140	160	180
Circling E RWY	500(430)	570(500)	940(870)	940(870)	Time	min:s	4:50	3:52	3:14	2:46	2:25	2:09
					Rate of descent	ft/min	425	530	635	745	850	955



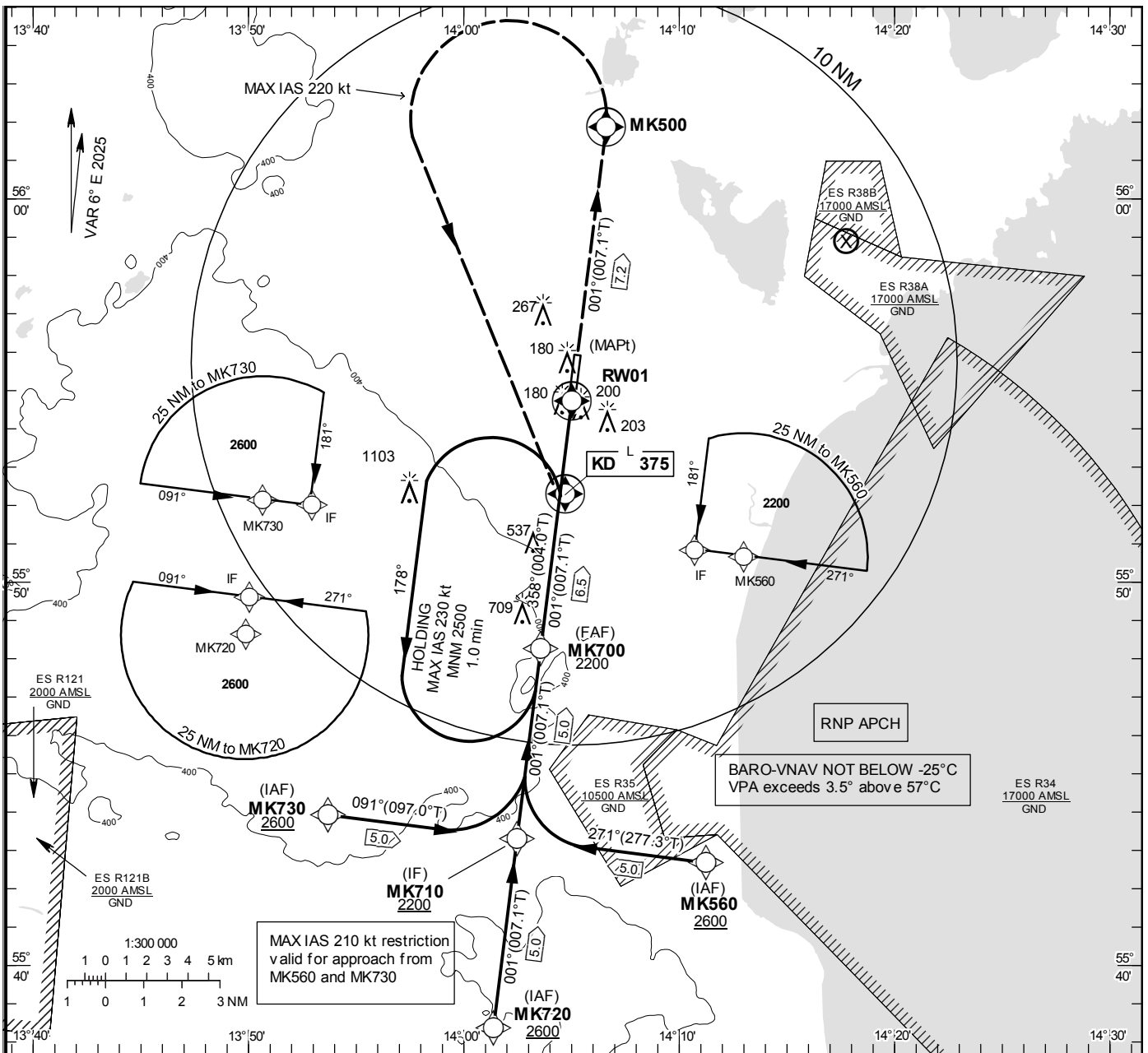
**INSTRUMENT  
APPROACH  
CHART – ICAO**

**THR ELEV 77 ft, AD ELEV 77 ft**  
 OCH are related to THR.  
 BRG are MAG (True).  
 ALT, HGT and ELEV in ft.

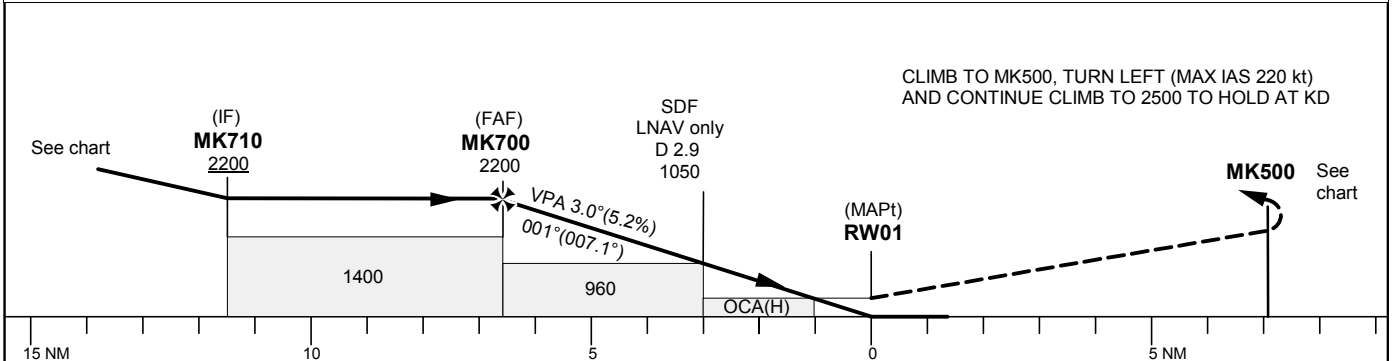
KRISTIANSTAD TOWER 129.355

**RNP RWY 01**

EGNOS Ch 69797 E 01A



TA 5000 ft AMSL RDH 50.0 ft



Cat of ACFT	OCA (H)				Final approach Dist to RW 01	Distance FAF-MAPt 6.5 NM						
	A	B	C	D		6	5	4	3	2		
LPV	310 (233)	323 (246)	331 (254)	341 (264)	ALT	2040	1720	1400	1080	760		
LNAV/VNAV	331 (254)	343 (266)	351 (274)	361 (284)	GS	kt	80	100	120	140	160	180
LNAV	450 (380)				Rate of descent	ft/min	425	530	635	745	850	955
Circling	570 (500)	570 (500)	940 (870)	1500 (1430)								
Circling E RWY	500 (430)	570 (500)	940 (870)	940 (870)								

## RNP RWY 01 via MK720

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	MK720	-	-	-	-	+2600	-	-	-	RNP APCH
TF	MK710	-	001 <sup>0</sup> (007.1 <sup>0</sup> )	5.0	-	+2200	-	-	-	RNP APCH

## RNP RWY 01 via MK560

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	MK560	-	-	-	-	+2600	-	-	-	RNP APCH
TF	MK710	-	271 <sup>0</sup> (277.3 <sup>0</sup> )	5.0	-	+2200	-210	-	-	RNP APCH

## RNP RWY 01 via MK730

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	MK730	-	-	-	-	+2600	-	-	-	RNP APCH
TF	MK710	-	091 <sup>0</sup> (097.0 <sup>0</sup> )	5.0	-	+2200	-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	MK710	-	-	-	-	+2200	-	-	-	RNP APCH
TF	MK700	-	001 <sup>0</sup> (007.1 <sup>0</sup> )	5.0	-	+2200	-	-	-	RNP APCH
TF	RW01	Y	001 <sup>0</sup> (007.1 <sup>0</sup> )	6.5	-	@127	-	-3.0/50	-	RNP APCH
TF	MK500	Y	001 <sup>0</sup> (007.1 <sup>0</sup> )	7.2	-	-	-	-	-	RNP APCH
DF	KD	Y	-	-	L	+2500	-220	-	-	RNP APCH

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
HM	KD	Y	358 <sup>0</sup> (004.0 <sup>0</sup> )	-	L	+2500	-230	-	-	RNAV 1

## FAS Data Block

## RNP RWY 01

## Input data

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	ESMK
Runway	01
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E01A
LTP/FTP Latitude	555442.4900N
LTP/FTP Longitude	0140459.9740E
LTP/FTP Ellipsoidal Height (metres)	58.2
FPAP Latitude	555553.5990N
Delta FPAP Latitude (seconds)	71.1090
FPAP Longitude	0140515.8620E
Delta FPAP Longitude (seconds)	15.8880
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)	50.0

## Output data

Data Block	10 0B 0D 13 05 01 00 00 01 31 30 05 74 A7 FE 17 8C 3D 0B 06 46 16 8A 2B 02 20 7C 00 F4 01 2C 01 64 00 C8 FA 74 A0 5E 4F
Calculated CRC Value	74A05E4F

## Required Additional Data

ICAO Code	ES
LTP/FTP Orthometric Height (metres)	23.4





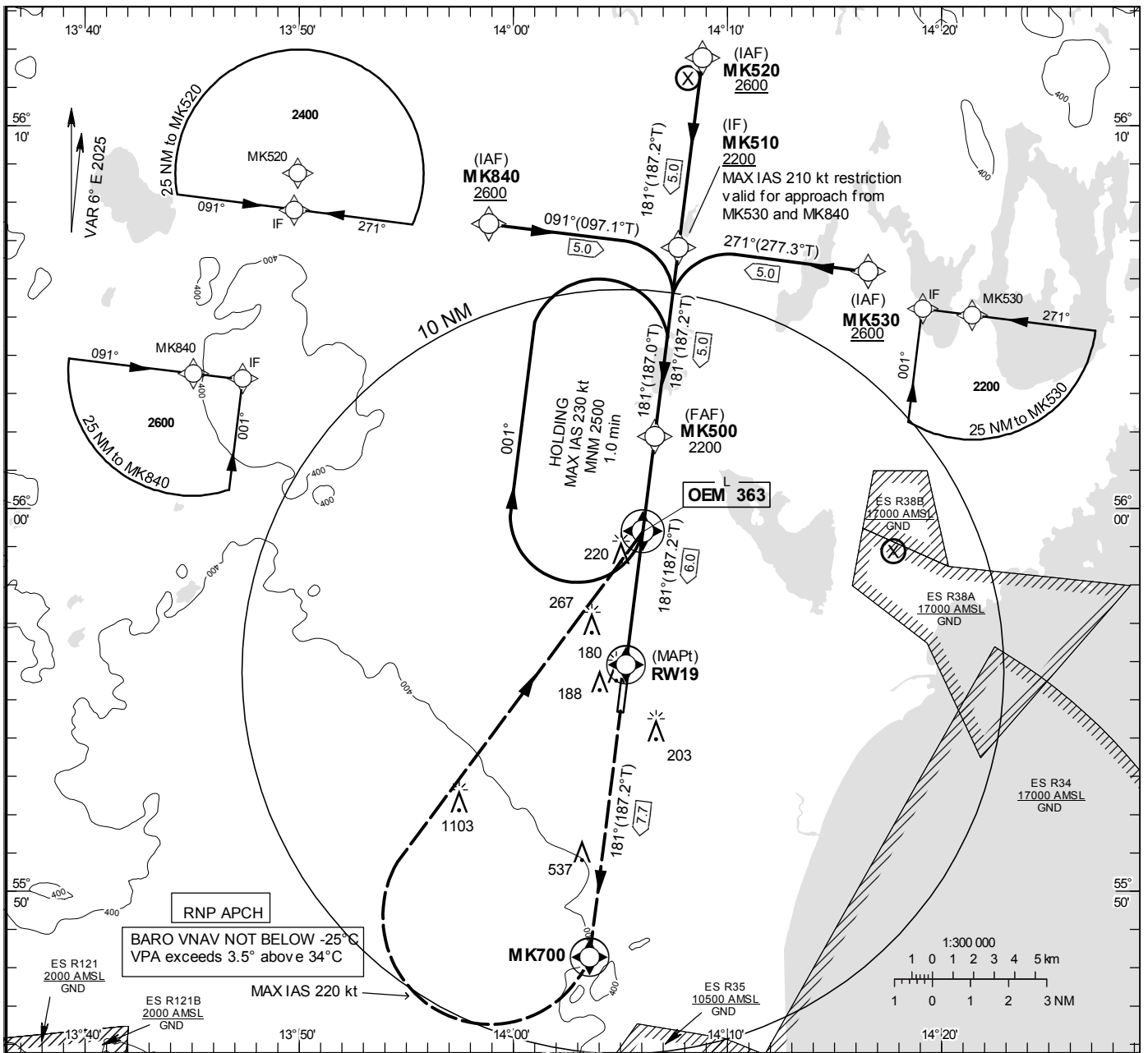
**INSTRUMENT  
APPROACH  
CHART – ICAO**

**THR ELEV 73.8 ft, AD ELEV 77 ft**  
 OCH are related to THR.  
 BRG are MAG (True).  
 ALT, HGT and ELEV in ft.

KRISTIANSTAD TOWER 129.355

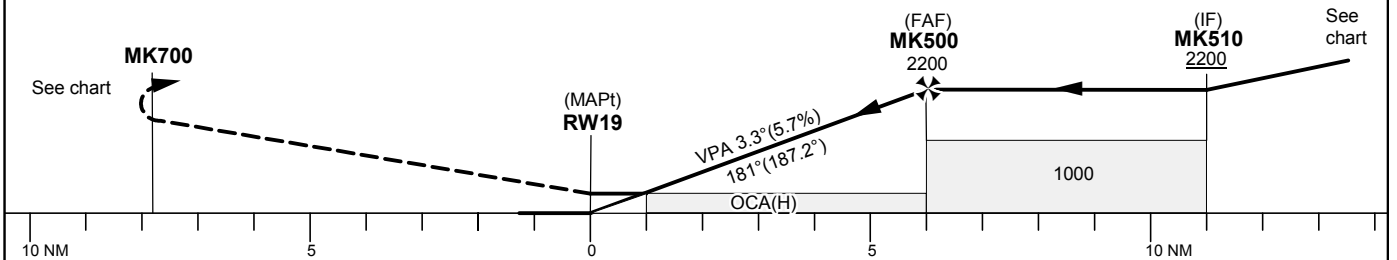
**RNP RWY 19**

EGNOS Ch 60050 E 19A



TA 5000 ft AMSL RDH 50.0 ft

CLIMB TO MK700, TURN RIGHT (MAX IAS 220 kt)  
 AND CONTINUE CLIMB TO 2500 TO HOLD AT OEM.



Cat of ACFT	OCA (H)				Final approach Dist to RWY 19	Distance FAF-MAPt 6.0 NM						
	A	B	C	D		2	3	4	5			
LPV	314 (241)	326 (253)	334 (261)	344 (271)	ALT	810	1160	1500	1850			
LNAV/VNAV	314 (241)	326 (253)	334 (261)	352 (279)	GS	kt	80	100	120	140	160	180
LNAV	470 (400)				Rate of descent	ft/min	460	575	690	805	920	1035
Circling	570(500)	570(500)	940(870)	1500(1430)								
Circling E RWY	500(430)	570(500)	940(870)	940(870)								

## RNP RWY 19 via MK520

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	MK520	-	-	-	-	+2600	-	-	-	RNP APCH
TF	MK510	-	181 <sup>0</sup> (187.2 <sup>0</sup> )	5.0	-	+2200	-	-	-	RNP APCH

## RNP RWY 19 via MK840

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	MK840	-	-	-	-	+2600	-	-	-	RNP APCH
TF	MK510	-	091 <sup>0</sup> (097.1 <sup>0</sup> )	5.0	-	+2200	-210	-	-	RNP APCH

## RNP RWY 19 via MK530

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	MK530	-	-	-	-	+2600	-	-	-	RNP APCH
TF	MK510	-	271 <sup>0</sup> (277.3 <sup>0</sup> )	5.0	-	+2200	-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	MK510	-	-	-	-	+2200	-	-	-	RNP APCH
TF	MK500	-	181 <sup>0</sup> (187.2 <sup>0</sup> )	5.0	-	+2200	-	-	-	RNP APCH
TF	RW19	Y	181 <sup>0</sup> (187.2 <sup>0</sup> )	6.0	-	@124	-	-3.25/50	-	RNP APCH
TF	MK700	Y	181 <sup>0</sup> (187.2 <sup>0</sup> )	7.7	-	-	-	-	-	RNP APCH
DF	OEM	Y	-	-	R	+2500	-220	-	-	RNP APCH

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
HM	OEM	Y	181 <sup>0</sup> (187.0 <sup>0</sup> )	-	R	+2500	-230	-	-	RNAV 1

## FAS Data Block

## RNP RWY 19

## Input data

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	ESMK
Runway	19
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E19A
LTP/FTP Latitude	555553.5990N
LTP/FTP Longitude	0140515.8620E
LTP/FTP Ellipsoidal Height (metres)	57.3
FPAP Latitude	555439.3855N
Delta FPAP Latitude (seconds)	-74.2135
FPAP Longitude	0140459.2800E
Delta FPAP Longitude (seconds)	-16.5820
Threshold Crossing Height	50.0
TCH Units Selector	0 (feet)
Glidepath Angle (degrees)	3.25
Course Width (metres)	105.00
Length Offset (metres)	96
HAL (metres)	40.0
VAL (metres)	50.0

## Output data

Data Block	10 0B 0D 13 05 13 00 00 01 39 31 05 FE D2 00 18 AC B9 0B 06 3D 16 35 BC FD 74 7E FF F4 01 45 01 64 0C C8 FA 37 9C F4 ED
Calculated CRC Value	379CF4ED

## Required Additional Data

ICAO Code	ES
LTP/FTP Orthometric Height (metres)	22.5



**VISUAL APPROACH CHART - ICAO**

1:250000



**AD ELEV 77 FEET**

ELEV and ALT in ft  
HGT in ft above AD ELEV

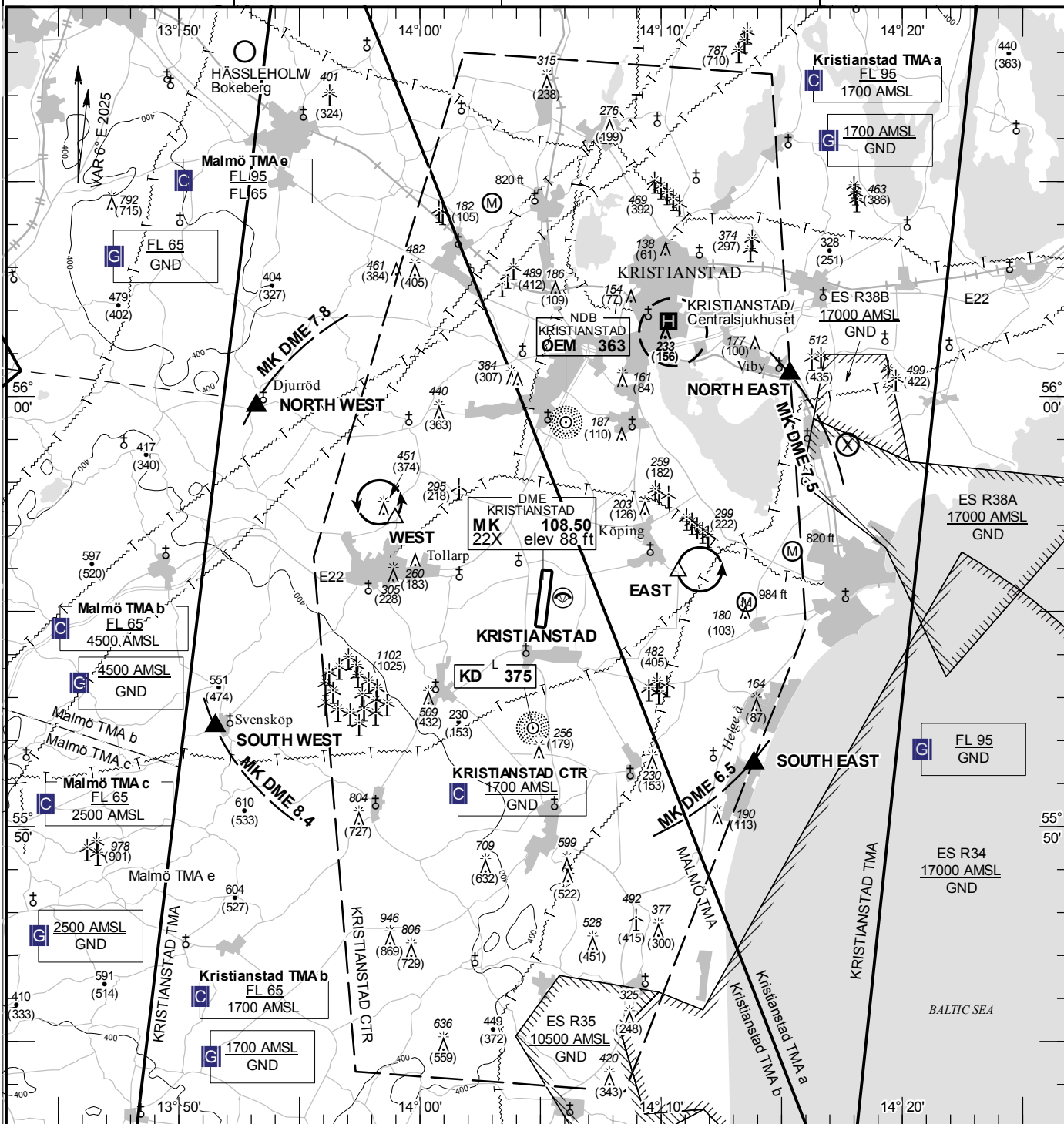
**TA 5000 AMSL**

**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	THR	PAPI
NR	ELEV	(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: VAR

AIRAC AMDT 5/2024 **08 AUG 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<br>SE-581 88 Linköping<br>TEL: +46 (0)13 18 00 00<br>CIV OPR: Linköping City Airport AB<br>Linköping City Airport<br>SE-582 54 Linköping<br>TEL: +46 (0)13 26 28 00<br>E-mail: op@linkopingcityairport.se<br>AFS: ESSLZTZX<br>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<br>(0600-1430)<br>E-mail: op@linkopingcityairport.se   |

**ESSL 2.3 OPERATIONAL HOURS**

- |     |   |  |
|-----|---|--|
| 1.  | AD Administration<br>AD Operating hours | MON-FRI 0700-1530 (0600-1430)<br>See Local Traffic Regulations |
| 2.  | Customs and immigration                 | O/R +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



**ESSL 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA**

- |    |                                     |  |
|----|-------------------------------------|--|
| 1. | Apron surface and strength          | Apron ASPH PCN 16 F/B/X/T  |
| 2. | Taxiway width, surface and strength | TWY C inner part 15 m ASPH PCN 30 F/B/X/T<br>TWY C outer part 40 m ASPH PCN 40 F/B/X/T<br>TWY D 15 m ASPH PCN 30 F/B/X/T<br>TWY I 23 m ASPH PCN 40 F/B/X/T<br>TWY L 15 m ASPH PCN 35 F/B/X/U |
| 3. | ACL, location and elevation         | Apron, stand 1 and 2, 147 ft.  |
| 4. | VOR checkpoints                     | -  |
| 5. | INS checkpoints                     | See ESSL 2-1   |
| 6. | Remarks                             | -  |

**ESSL 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 mandatory  |            |  |                   |                                       |               |                                   |    |                                       |    |                                       |    |                                       |
| 2.                | RWY and TWY markings and LGT  | <table border="0"> <tr> <td style="vertical-align: top;">RWY 11/29:</td> <td style="vertical-align: top;">Designator, THR, TDZ, CL, edges day marked. RTHL, REDL, RENL</td> </tr> <tr> <td style="vertical-align: top;">TWY C inner part:</td> <td style="vertical-align: top;">CL, HLDG day marked, Edge lights, RGL</td> </tr> <tr> <td style="vertical-align: top;">C outer part:</td> <td style="vertical-align: top;">CL, edges day marked, Edge lights</td> </tr> <tr> <td style="vertical-align: top;">D:</td> <td style="vertical-align: top;">CL, HLDG day marked, Edge lights, RGL</td> </tr> <tr> <td style="vertical-align: top;">I:</td> <td style="vertical-align: top;">CL, HLDG day marked, Edge lights, RGL</td> </tr> <tr> <td style="vertical-align: top;">L:</td> <td style="vertical-align: top;">CL, HLDG day marked, Edge lights, RGL</td> </tr> </table> | RWY 11/29: | Designator, THR, TDZ, CL, edges day marked. RTHL, REDL, RENL | TWY C inner part: | CL, HLDG day marked, Edge lights, RGL | C outer part: | CL, edges day marked, Edge lights | D: | CL, HLDG day marked, Edge lights, RGL | I: | CL, HLDG day marked, Edge lights, RGL | L: | CL, HLDG day marked, Edge lights, RGL |
| RWY 11/29:        | Designator, THR, TDZ, CL, edges day marked. RTHL, REDL, RENL  |  |            |  |                   |                                       |               |                                   |    |                                       |    |                                       |    |                                       |
| TWY C inner part: | CL, HLDG day marked, Edge lights, RGL   |  |            |  |                   |                                       |               |                                   |    |                                       |    |                                       |    |                                       |
| C outer part:     | CL, edges day marked, Edge lights   |  |            |  |                   |                                       |               |                                   |    |                                       |    |                                       |    |                                       |
| D:                | CL, HLDG day marked, Edge lights, RGL   |  |            |  |                   |                                       |               |                                   |    |                                       |    |                                       |    |                                       |
| I:                | CL, HLDG day marked, Edge lights, RGL   |  |            |  |                   |                                       |               |                                   |    |                                       |    |                                       |    |                                       |
| L:                | CL, HLDG day marked, Edge lights, RGL   |  |            |  |                   |                                       |               |                                   |    |                                       |    |                                       |    |                                       |
| 3.                | Stop bars   | TWY C inner part   |            |  |                   |                                       |               |                                   |    |                                       |    |                                       |    |                                       |
| 4.                | Remarks   | RWY 11/29: MIL marker boards along RWY 11/29<br>LED lights on RWY and TWY C, D, I, L   |            |  |                   |                                       |               |                                   |    |                                       |    |                                       |    |                                       |

**ESSL 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
ESSL1	Stack	582508.5N 0153734.0E	296 / -	-	-
ESSL2	Tank	582516.0N 0153737.4E	297 / -	-	-
ESSL3	Stack	582508.8N 0153729.7E	335 / -	-	-

In Area 3					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
Not available					

## ESSL 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, <a href="https://tafplanner.smhi.se/app.php/production-program">https://tafplanner.smhi.se/app.php/production-program</a>
4.	Type of landing forecast Interval of issuance	Not issued
5.	Briefing/consultation provided	FPC H24, +46 (0)8 797 63 40, <a href="http://www.lfv.se/fpc">www.lfv.se/fpc</a>
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	ÖSTGÖTA APP LINKÖPING/Saab TWR
10.	Additional information (limitation of service, etc.)	Flight planning room available

## ESSL 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
11	112.17° GEO 106° MAG	2135 x 45	PCN 40 F/A/X/T ASPH	582428.34N 0154022.26E  GUND 95.3 ft	THR 156.9 ft TDZ 163 ft
29	292.20° GEO 286° MAG	2135 x 45	PCN 40 F/A/X/T ASPH	582402.29N (*) 0154223.99E  GUND 95.2 ft	THR 177.9 ft TDZ 178 ft

Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
11 See ESSL AOC	-	-	2255 x 280	-	Transverse slope. Last 1200 m of RWY non cambered, single crossfall from left to right. Arresting net beyond THR 29
29 See ESSL AOC	-	-	2255 x 280	-	Transverse slope. First 1200 m of RWY non cambered, single crossfall from right to left. Arresting net beyond THR 11

**ESSL 2.13 DECLARED DISTANCES**

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
11	2135	2135	2135	2135	-
29	2135	2135	2135	2135	-

**ESSL 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
11	Barrette CL CAT I 900 m LIH	Green	PAPI Left/3.00° (57.7 ft)	-	-	2135/60 m White Caution zone 600 m yellow LIH	Red	-
29	Barrette CL CAT I 900 m LIH	Green	PAPI Left/3.00° (59.0 ft)	-	-	2135/60 m White Caution zone 600 m yellow LIH	Red	-
<b>10 Remarks:</b> RWY 11: LED lights on APCH, RTHL, REDL, RENL and PAPI. RWY 29: LED lights on APCH, RTHL, REDL, RENL and PAPI.								

**ESSL 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY**

- |   |   |
|---|---|
| 1. ABN/IBN location, characteristics and hours of operation | -   |
| 2. LDI location and LGT<br>Anemometer location and LGT      | Lighted windsock 1040 m inwards THR 29 left side. At RWY ends, unlighted.<br>Anemometer at GP RWY 29, lighted, at PAPI RWY 11, lighted. |
| 3. TWY edge and centre line lighting                        | Edge: TWY C inner part, C outer part, D, I, L<br><br>CL: -  |
| 4. Secondary power supply/switch-over time                  | Available/0 sec   |
| 5. Remarks  | -   |

**ESSL 2.16 HELICOPTER LANDING AREA**

RWY 11/29 to be used

## ESSL 2.17 ATS AIRSPACE

1.	Designation and lateral limits	SAAB CTR	583129N 0152309E - 582959N 0154221E - 582308N 0160319E - 581723N 0155825E - 581941N 0153719E - 582544N 0151859E - 583129N 0152309E
		Sector a	582959N 0154221E - 582308N 0160319E - 581723N 0155825E - 581941N 0153719E - 582642N 0153711E - 582959N 0154221E
		Sector b	583129N 0152309E - 582959N 0154221E - 582642N 0153711E - 581941N 0153719E - 582544N 0151859E - 583129N 0152309E
2.	Vertical limits	SAAB CTR	1600 ft AMSL <hr/> GND
		Sector a	1600 ft AMSL <hr/> GND
		Sector b	1600 ft AMSL <hr/> GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	SAAB TOWER Swedish/English	
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	CTR established during hours of TWR. During the operational hours of MALMEN TWR: SAAB Sector b is delegated to MALMEN TWR. -	

## ESSL 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	SAAB TOWER	118.805	HO	Primary channel Designated operational coverage 25 NM/4000 ft
		121.500	HO	-
		133.105	HO	-
APP	ÖSTGÖTA APPROACH	132.955	HO	-
		135.850	HX	-

## ESSL 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 11 ILS CAT I (6° E 2020)	LSL	108.90 MHz	HO	582358.3N 0154242.5E		325(*) m beyond THR 29 ILS Class I/D/2
GP		329.30 MHz	HO	582421.3N 0154035.7E		Angle 3.0° RDH 52.8 ft 285 m past THR 11 right side
LOC 29 ILS CAT I (6° E 2020)	SL	108.10 MHz	HO	582441.3N 0153921.7E		1062(*) m beyond THR 11 ILS Class I/D/2
GP		334.70 MHz	HO	582409.5N 0154209.7E		Angle 3.0° RDH 54.1 ft 300 m past THR 29 right side
DME	LSL	108.90 MHz	HO	582421.4N 0154035.8E	188 ft	284 m past THR 11 right side DME channel 26X
DME	SL	108.10 MHz	HO	582409.4N 0154209.6E	196 ft	299 m past THR 29 right side DME channel 18X

## ESSL 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. Flygplatsens miljötillstånd medger trafik dagligen mellan 0600 och 2200 lokal tid. Utöver detta kan, efter särskilt tillstånd från flygplatschefen, reguljära eller samhällsnyttiga flygningar tillåtas.

2. Förhandstillstånd (PPR) erfordras H24 för besökande flyg. PPR TEL 013 26 28 40 eller op@linkopingcityairport.se för tillträde och parkering vid terminalen. För tillträde och parkering till GAC ges PPR via Linköping Flygklubb för luftfartyg med MTOM 4000 kg via LFK.se. PPR ges inte för studs-och-gå.

3. När ÖSTGÖTA APP är stängd får skolflygning inom ÖSTGÖTA TMA utföras endast efter förhandstillstånd från skiftledaren vid STOCKHOLM ACC, TEL 08 585 547 02.

Omfattande skolverksamhet med militära jetflygplan och helikoptrar utanför Malmen och SAAB CTR.

4. Högervarv gäller till RWY 29.

5. VFR-flygning med luftfartyg med MTOM 4000 kg

Om inte ATS meddelar annat, skall högersväng påbörjas när höjd 500 ft AMSL uppnåtts efter start RWY 29. Gäller även när ATS är stängt.

6. När ATS är stängd bör luftfartyg blandsända positionsrapport och avsikt på kanal 118.805 vid användande av manöverområdet samt före angörande av och under flygning i trafikvarv.

7. Start RWY 29 och landning RWY 11 får endast ske när vindförhållanden eller andra flygsäkerhetsskäl så kräver.

## LOCAL TRAFFIC REGULATIONS

1. The environmental concession permits daily traffic between 0600 and 2200 local time. In addition, after special permission from the airport manager, scheduled and traffic of public interest may be accepted.

2. Prior Permission Required (PPR) H24 for visiting flights. PPR phone +46 (0)13 26 28 40 or op@linkopingcityairport.se for parking at terminal. Access and parking at GAC the PPR can be obtained from Linköping Flygklubb for aircraft with MTOM 4000 kg via LFK.se. No PPR given for touch-and-go.

3. 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 02.

Intensive training activities with military jet aeroplanes and helicopters outside Malmen and SAAB CTR.

4. Right hand circuit to RWY 29.

5. VFR flights with aircraft with MTOM 4000 kg

If ATS not informs differently, right hand turn shall be initiated when reaching 500 ft AMSL after take-off RWY 29. Valid also when ATS is closed.

6. 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.

7. Take-off RWY 29 and landing RWY 11 accepted only when wind conditions or other flight safety reasons so require.

8. 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 minuter 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 minuter före beräknad tid för taxning.

8. 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 minutes before estimated time for taxiing.  
When the temperature outside 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 taxiing.

## ESSL 2.21 MINSKNING AV BULLERSTÖRNING

Lufffartyg bör inte framföras på en lägre höjd än 2000 ft AMSL över Linköping innerstad och vid flygplatsens närliggande statsdelar, utom då så är nödvändigt i samband med start och landning.

Över gården Bökestad NE THR 29 skall överflygningar undvikas i samband med start och landning samt flygning i trafikvarv.

Lufffartyg skall noggrant följa i klareringen angiven flygväg samt i övrigt framföras så att onödiga bullerstörningar inte förorsakas.

Fly-over gäller för punkten SIRJO om den ingår i klareringen.

Fly-by gäller för punkten LUFAC om den ingår i klareringen.

## NOISE ABATEMENT PROCEDURES

Aircraft should not be operated below 2000 ft AMSL over the central parts of Linköping and the suburban areas close to the aerodrome, except when necessary for take-off and landing.

The farm at Bökestad situated NE of THR 29 shall be avoided during take-off, landing and flight in traffic circuit.

Aircraft shall strictly adhere to assigned route and be operated in such a manner that unnecessary noise disturbances are not caused.

Fly-over applies for waypoint SIRJO if included in clearance.

Fly-by applies for waypoint LUFAC if included in clearance.

## ESSL 2.22 FLYGPROCEDURER

1. Ankommande IFR-trafik inom Östgöta TMA och SAAB CTR

Inflygningsförfaranden  
Se sid ESSL 5-1, ESSL 5-3 och ESSL 5-5 till ESSL 5-8.

Väntlägen (Ref ENR 1.3)  
Väntlägen är upprättade enligt sid ESSP 4-1.

2. Startprocedurer, omnidirectional

## FLIGHT PROCEDURES

1. Inbound IFR traffic within Östgöta TMA and SAAB CTR

Approach procedures  
See pages ESSL 5-1, ESSL 5-3 and ESSL 5-5 through ESSL 5-8.

Holdings (Ref ENR 1.3)  
Holding patterns are established in accordance with page ESSP 4-1.

2. Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
11	Climb straight ahead to MNM turning ALT 700 ft AMSL. Continue climb to appropriate MSA.	CIO exist		
29	Climb straight ahead with MNM 270 ft/NM (4.4%) to MNM turning ALT 700 ft AMSL. Continue climb to appropriate MSA.	CIO exist Church Building+ Antenna	539 502	283°/5346 268°/4199

3. Avbrott i radioförbindelse

Lufffartyg ska följa de föreskrifter som anges i ENR 1.3, mom 10. Under IMC gäller dessutom följande för ankommande lufffartyg.

3.1 Generellt:  
Med tillämpligt faställt navigeringshjälpmedel vid destinationsflygplatsen, enligt ENR 1.3, mom 10.2 e), avses i detta fall VSN.

3. 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.

3.1 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 VSN.

3.2 Ankommande klarering mottagen och kvitterad: Bibehåll senast tilldelad och kvitterad flyghöjd, flyg direkt mot VSN holding. Efter ankomst över VSN utför nedgång i väntläge till 2500 ft AMSL (gör minst ett varv i väntläget). Gå till aktuellt IAF (RNAV eller RNP). Utför därefter en normal instrumentinflygning (ILS eller RNP) till bana 11 eller 29.

Om avbrott i radioförbindelse inträffar under radarvektorer för ILS-inflygning eller RNP-inflygning: Bibehåll senast tilldelad och kvitterad flyghöjd, dock ej lägre höjd än tillämplig lägsta sektorhöjd, flyg direkt till VSN holding. Efter ankomst över VSN utför nedgång i väntläge till 2500 ft AMSL (gör minst ett varv i väntläget). Gå till aktuellt IAF (RNAV eller RNP). Utför därefter en normal instrumentinflygning (ILS eller RNP) till bana 11 eller 29.

3.3 Ankommande klarering ej mottagen och/eller kvitterad: Bibehåll senast tilldelad och kvitterad flyghöjd. Fortsätt via aktuell inpasseringspunkt i TMA direkt till VSN. Efter ankomst över VSN utför nedgång i väntläge till 2500 ft AMSL (gör minst ett varv i väntläget.) Gå till aktuellt IAF (RNAV eller RNP). Utför därefter en normal instrumentinflygning (ILS eller RNP) till bana 11 eller 29.

3.4 Avbruten inflygning i samband med avbrott i radioförbindelse:

RWY 11: Stig rakt fram till 2500 ft AMSL. Därefter högersväng (Max IAS 230 kt) mot VSN holding. Gör ett varv i holding och gå därefter mot SL840 (RNAV eller RNP). Utför därefter en normal instrumentinflygning (ILS eller RNP) till bana 11.

RWY 29: Stig rakt fram till 2500 ft AMSL. Därefter vänstersväng (Max IAS 230 kt) mot VSN holding. Gör ett varv i holding och gå därefter mot SL602 (RNAV eller RNP). Utför därefter en normal instrumentinflygning (ILS eller RNP) till bana 29.

#### 4. Lågsiktprocedurer (LVP) etablerade

Lägsta RVR för avgående trafik 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 meddelas av ATS.

När LVP tillämpas tillåts endast ett luftfartyg eller fordon på manöverområdet.

#### 5. VFR-flygning inom Östgöta TMA och SAAB CTR

Normala in- och utpasseringspunkter  
Se ESSL 6-1

Väntläge  
Se ESSL 6-1

Avbrott i radioförbindelse  
Se ESSL 6-1

### ESSL 2.23 ÖVRIG INFORMATION

1. Utrullningshinder utanför bansluten är resta när ATS är stängt.

3.2 Inbound clearance received and acknowledged: Maintain last received and acknowledged level, proceed direct to VSN holding. After arrival over VSN, descend in the holding pattern to 2500 ft AMSL (fly at least one circuit in the holding pattern). Proceed to the relevant IAF (RNAV or RNP). Then carry out a normal instrument approach (ILS or RNP) to runway 11 or 29.

In the event of communication failure during radar vectors for an ILS or RNP approach: Maintain last received and acknowledged level or the applicable minimum sector altitude whichever is higher; proceed direct to VSN holding. After arrival over VSN, descend in the holding pattern to 2500 ft AMSL (fly at least one circuit in the holding pattern). Proceed to the relevant IAF (RNAV or RNP). Then carry out a normal instrument approach (ILS or RNP) to runway 11 or 29.

3.3 No inbound clearance received and/or acknowledged: Maintain last received and acknowledged level. Proceed via the relevant TMA entry point direct to VSN. After arrival over VSN, descend in the holding pattern to 2500 ft AMSL (fly at least one circuit in the holding pattern). Proceed to the relevant IAF (RNAV or RNP). Then carry out a normal instrument approach (ILS or RNP) to runway 11 or 29.

3.4 Missed approach in connection with communication failure:

RWY 11: Climb straight ahead to 2500 ft AMSL. Turn right (Max IAS 230 kt) towards VSN holding. Fly one circuit in the holding pattern and proceed to SL840 (RNAV or RNP). Then carry out a normal instrument approach (ILS or RNP) to runway 11.

RWY 29: Climb straight ahead to 2500 ft AMSL. Turn left (Max IAS 230 kt) towards VSN holding. Fly one circuit in the holding pattern and proceed to SL602 (RNAV or RNP). Then carry out a normal instrument approach (ILS or RNP) to runway 29.

#### 4. Low visibility procedures (LVP) established

Minimum RVR for departing traffic is 400 m.

LVP will be in force when RVR is below 550 m or when 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.

#### 5. VFR flight within Östgöta TMA and SAAB CTR

Normal entry and exit points  
See ESSL 6-1

Holding point  
See ESSL 6-1

Communication failure  
See ESSL 6-1

### ADDITIONAL INFORMATION

1. Arresting net outside runway ends erected when ATS is closed.

2. Förhandstillstånd (PPR) krävs för följande flygningar inom ÖSTGÖTA TMA;

- Fotoflyg
- Prospekteringsflyg
- Lyft av fallskärmschoppare
- Mät och kontrollflygning av navigeringshjälpmedel

Innan färdplan lämnas in skall operatör begära förhandstillstånd från ÖSTGÖTA APP TEL 011 19 28 14.

3. ATS-tjänst bedrivs från RTC Sundsvall.

4. Signalstrålkastare placerad på R-TWR.

Signaler från signalstrålkastare bana 29 kan initialt vara svåra att upptäcka i mörker p g a upplyst stadskärna.

5. Beviljade undantag från krav i CS-ADR-DSN:

- Hinder genomtränger hinderbegränsade ytor. Övergångsytan genomträngs av RTC kameratorn, 324 ft, samt gammalt torn, 275 ft. Obelysta hinder genomtränger även horisontella ytan samt koniska ytan.
- Lutningar på plattan uppgår till 1,5%.

2. 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.

3. ATS provided from RTC Sundsvall.

4. Signalling lamp positioned on R-TWR.

Signals from signalling lamp runway 29 may initially be difficult to detect in the dark due to illuminated city center.

5. Granted exemptions from requirements in CS-ADR-DSN:

- Obstacles penetrate obstacle limitation surfaces. Transitional surface penetrated by remote tower, 324 ft, and old tower, 275 ft. Unlighted obstacles penetrate horizontal and conical surfaces.
- Slopes on the apron amount to 1.5%.

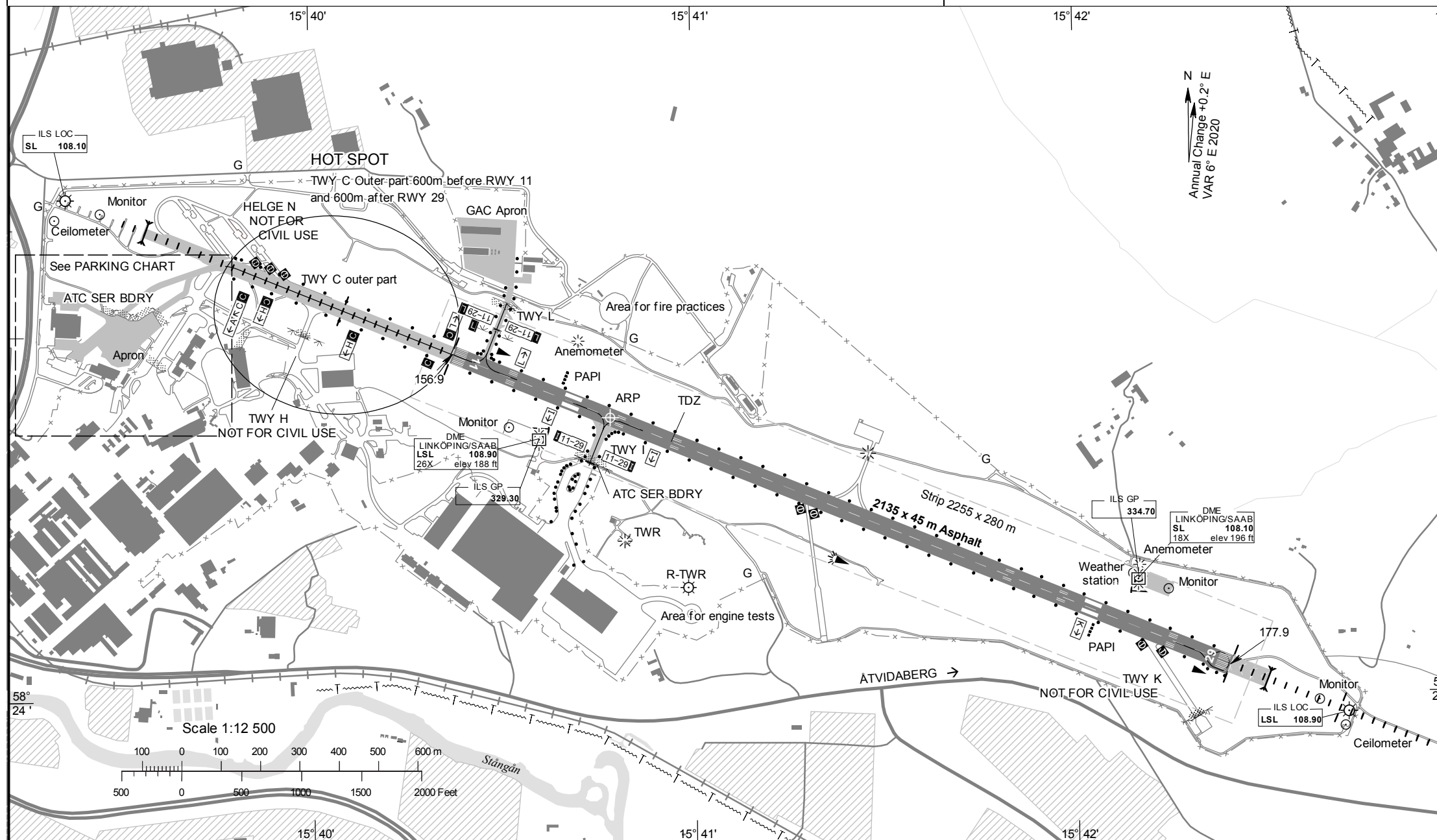
## ESSL 2.24 TILLHÖRANDE KARTOR

AD chart	
AOC	RWY 11/29
Area chart (TMA)	
List of waypoints and significant points	
ATC Surveillance Minimum ALT chart	
IAC	ILS or LOC RWY 29
IAC	ILS or LOC RWY 11
IAC	RNP RWY 11 (LNAV, LNAV/VNAV only)
IAC	RNP RWY 29 (LNAV, LNAV/VNAV only)
VAC	

## RELATED CHARTS

ESSL 2-1
ESSL-3-1
See <b>ESSP 4-1</b>
ESSL 4-3
See <b>ESSP 4-91</b>
ESSL 5-1
ESSL 5-3
ESSL 5-5
ESSL 5-7
ESSL 6-1





ARP 582423N 0154047E

AD ELEV 178 FEET

LEGEND See GEN 2.3

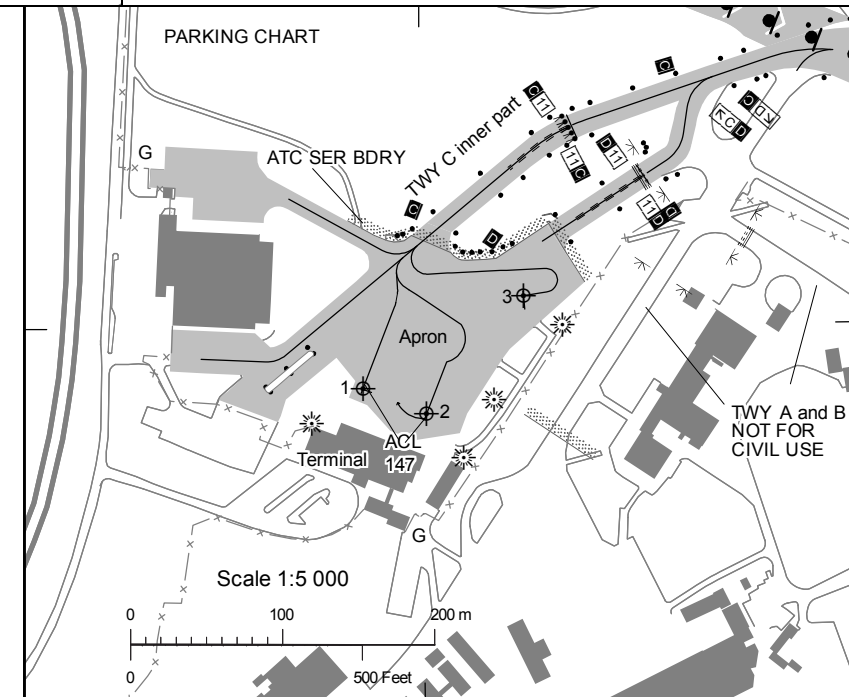
Dimensions in m, ELEV in ft

TWY NR	WIDTH	Surface Bearing strength	Day marking		Taxiway lighting	
			Centerline Holding	Edge Centerline	RGL Stopbar	RGL STOPBAR
C INNER PART	15 m	ASPH PCN 30 F/B/X/T	CL HLDG	EDGE	RGL	STOPBAR
C OUTER PART	40 m	ASPH PCN 40 F/B/X/T	CL	EDGE		
D	15 m	ASPH PCN 30 F/B/X/T	CL HLDG	EDGE	RGL	
I	23 m	ASPH PCN 40 F/B/X/T	CL HLDG	EDGE	RGL	
L	15 m	ASPH PCN 35 F/B/X/U	CL HLDG	EDGE	RGL	

INS Coordinates for Aircraft Stands			
APRON Surface Bearing strength	NR	COORD	ELEV
CONC PCN 41 R/B/X/T	1	582428.67 N 153927.59 E	147
	2	582428.12 N 153930.16 E	147
ASPH PCN 16 F/B/X/T	3	582430.62 N 153934.14 E	143

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
11	112.17° GEO 106° MAG	582428.34N 0154022.26E GUND 95.3 ft	PCN 40 F/A/X/T	THR 156.9 ft TDZ 163 ft	2135	2135	2135	2135	Barrette CL Cat I 900 m LIH	THR Green	PAPI Left/3.00° (57.7 ft)	2135/60 m White Caution zone 600 m yellow LIH	Red
29	292.20° GEO 286° MAG	582402.29N (*) 0154223.99E GUND 95.2 ft	PCN 40 F/A/X/T	THR 177.9 ft TDZ 178 ft	2135	2135	2135	2135	Barrette CL Cat I 900 m LIH	THR Green	PAPI Left/3.00° (59.0 ft)	2135/60 m White Caution zone 600 m yellow LIH	Red

**REMARKS :**  
 RWY 11: Transverse slope. Last 1200 m of RWY non cambered, single crossfall from left to right  
 RWY 29: Transverse slope. First 1200 m of RWY non cambered, single crossfall from right to left  
 RWY 29: Additional distance signs only for military purpose.  
 Apron: Self-manouvering /Pushback. Marshalling mandatory.





**ESTL 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA**

1.	Apron surface and strength	Apron 1 CONC PCN - Apron 2 CONC PCN - Apron 3 CONC PCN - Apron 4 CONC PCN - Apron 5 CONC PCN -
2.	Taxiway width, surface and strength	TWY A 8 m CONC PCN - TWY B 10 m CONC+ASPH PCN - TWY C 8 m CONC PCN - TWY D 10 m CONC PCN - TWY E 10 m CONC PCN - TWY F 10 m CONC PCN - TWY H 8 m ASPH PCN - TWY J 4.8 m ASPH PCN - TWY K 8 m CONC PCN - TWY Y 8 m CONC+ASPH PCN -
3.	ACL, location and elevation	Apron 139 ft
4.	VOR checkpoints	-
5.	INS checkpoints	-
6.	Remarks	-

**ESTL 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.																																				
2.	RWY and TWY markings and LGT	<table border="0"> <tr> <td style="vertical-align: top;">RWY</td> <td style="vertical-align: top;">11L/29R:</td> <td style="vertical-align: top;">Designator, THR, TDZ, CL and edges are day marked. RTHL, REDL, RENL</td> </tr> <tr> <td></td> <td style="vertical-align: top;">11R/29L:</td> <td style="vertical-align: top;">Designator, THR, TDZ, CL and edges are day marked. RTHL, REDL, RENL</td> </tr> <tr> <td style="vertical-align: top;">TWY</td> <td style="vertical-align: top;">A:</td> <td style="vertical-align: top;">CL, HLDG day marked. Edge lights, RGL</td> </tr> <tr> <td></td> <td style="vertical-align: top;">B:</td> <td style="vertical-align: top;">CL, HLDG day marked. Edge lights, RGL</td> </tr> <tr> <td></td> <td style="vertical-align: top;">C:</td> <td style="vertical-align: top;">CL, HLDG day marked.</td> </tr> <tr> <td></td> <td style="vertical-align: top;">D:</td> <td style="vertical-align: top;">CL, HLDG day marked.</td> </tr> <tr> <td></td> <td style="vertical-align: top;">E:</td> <td style="vertical-align: top;">CL, HLDG day marked.</td> </tr> <tr> <td></td> <td style="vertical-align: top;">F:</td> <td style="vertical-align: top;">CL, HLDG day marked.</td> </tr> <tr> <td></td> <td style="vertical-align: top;">H:</td> <td style="vertical-align: top;">CL day marked.</td> </tr> <tr> <td></td> <td style="vertical-align: top;">J:</td> <td style="vertical-align: top;">CL, HLDG day marked. RGL</td> </tr> <tr> <td></td> <td style="vertical-align: top;">K:</td> <td style="vertical-align: top;">CL day marked. Edge lights</td> </tr> <tr> <td></td> <td style="vertical-align: top;">Y:</td> <td style="vertical-align: top;">CL, HLDG day marked. Edge lights, RGL</td> </tr> </table>	RWY	11L/29R:	Designator, THR, TDZ, CL and edges are day marked. RTHL, REDL, RENL		11R/29L:	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		C:	CL, HLDG day marked.		D:	CL, HLDG day marked.		E:	CL, HLDG day marked.		F:	CL, HLDG day marked.		H:	CL day marked.		J:	CL, HLDG day marked. RGL		K:	CL day marked. Edge lights		Y:	CL, HLDG day marked. Edge lights, RGL
RWY	11L/29R:	Designator, THR, TDZ, CL and edges are day marked. RTHL, REDL, RENL																																				
	11R/29L:	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																																				
	C:	CL, HLDG day marked.																																				
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	H:	CL day marked.																																				
	J:	CL, HLDG day marked. RGL																																				
	K:	CL day marked. Edge lights																																				
	Y:	CL, HLDG day marked. Edge lights, RGL																																				
3.	Stop bars	-																																				
4.	Remarks	-																																				

## ESTL 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
ESTL1	Shrub	560440.9N 0131244.6E	151 / -	-	-
ESTL2	Shrub	560439.0N 0131252.8E	161 / -	-	-
ESTL3	Forest	560436.3N 0131256.8E	178 / -	-	-
ESTL4	Forest	560434.7N 0131303.3E	189 / -	-	-
ESTL5	Forest	560434.8N 0131304.6E	191 / -	-	-
ESTL6	Forest	560433.8N 0131304.7E	202 / -	-	-
ESTL7	Forest	560433.0N 0131305.4E	206 / -	-	-
ESTL8	Forest	560429.8N 0131343.0E	236 / -	-	-
ESTL9	Shrub	560509.2N 0131050.3E	134 / -	-	-
ESTL10	Forest	560516.5N 0131046.0E	141 / -	-	-
ESTL11	Forest	560517.4N 0131042.7E	145 / -	-	-
ESTL12	Forest	560514.1N 0131029.5E	154 / -	-	-
ESTL13	Forest	560522.1N 0131029.1E	161 / -	-	-
ESTL14	Forest	560522.5N 0131029.3E	165 / -	-	-
ESTL15	Forest	560515.4N 0131015.4E	180 / -	-	-

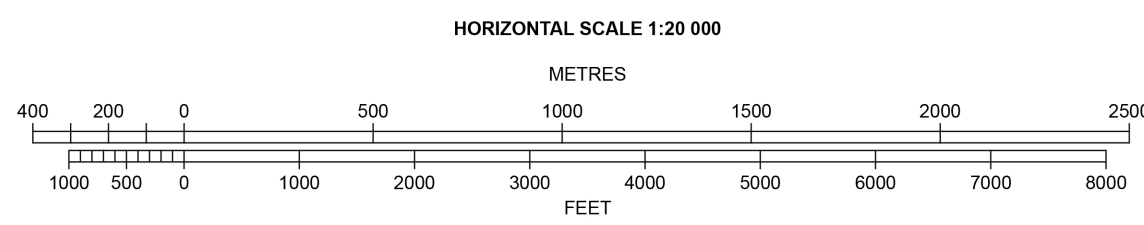
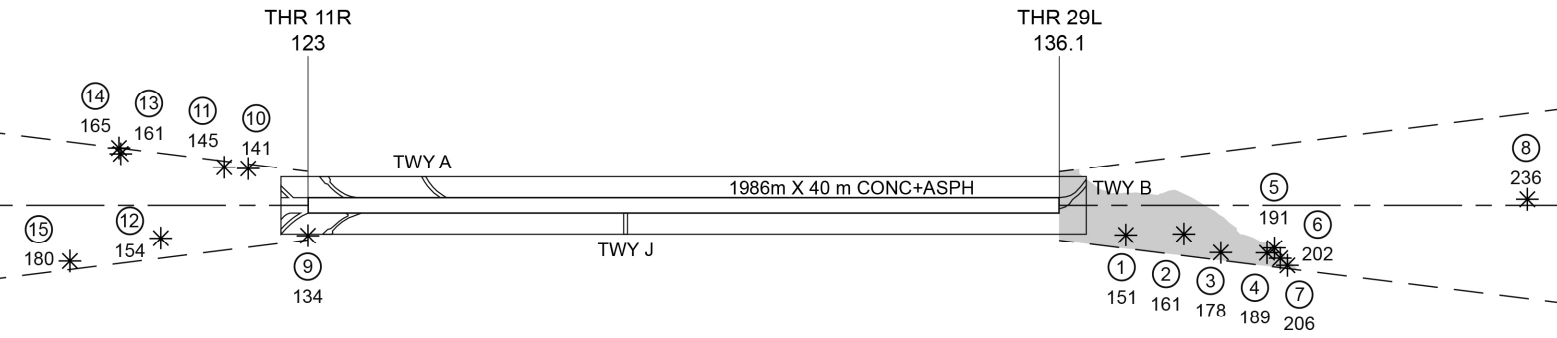
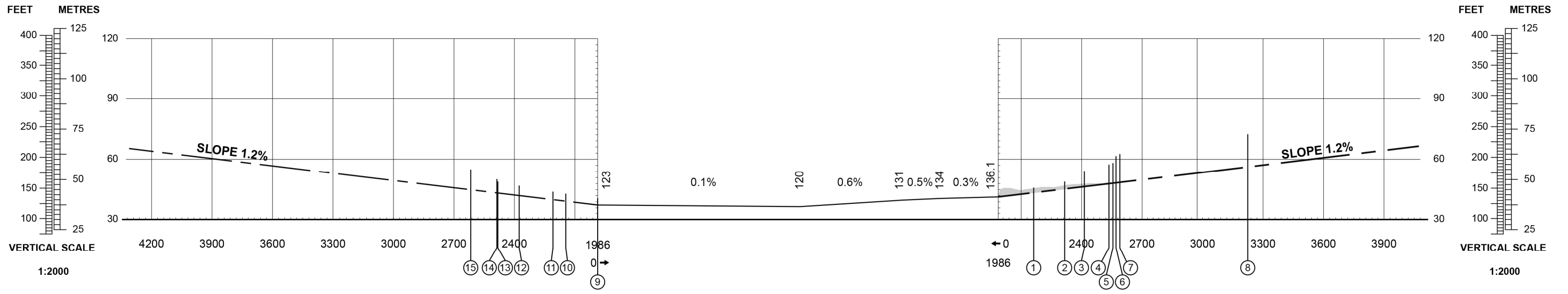
  

In Area 3					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
Not available					

**AERODROME ELEVATION 139 FEET**  
MAGNETIC VARIATION 4° E 2020

**RUNWAY BEARINGS**  
11R = GEO 113.9°; MAG 110°  
29L = GEO 293.9°; MAG 290°

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



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	▲

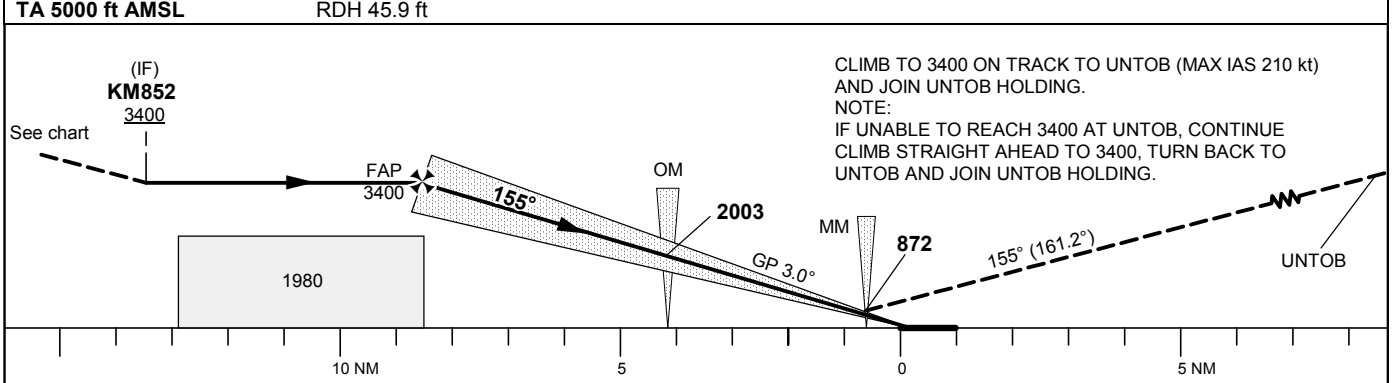
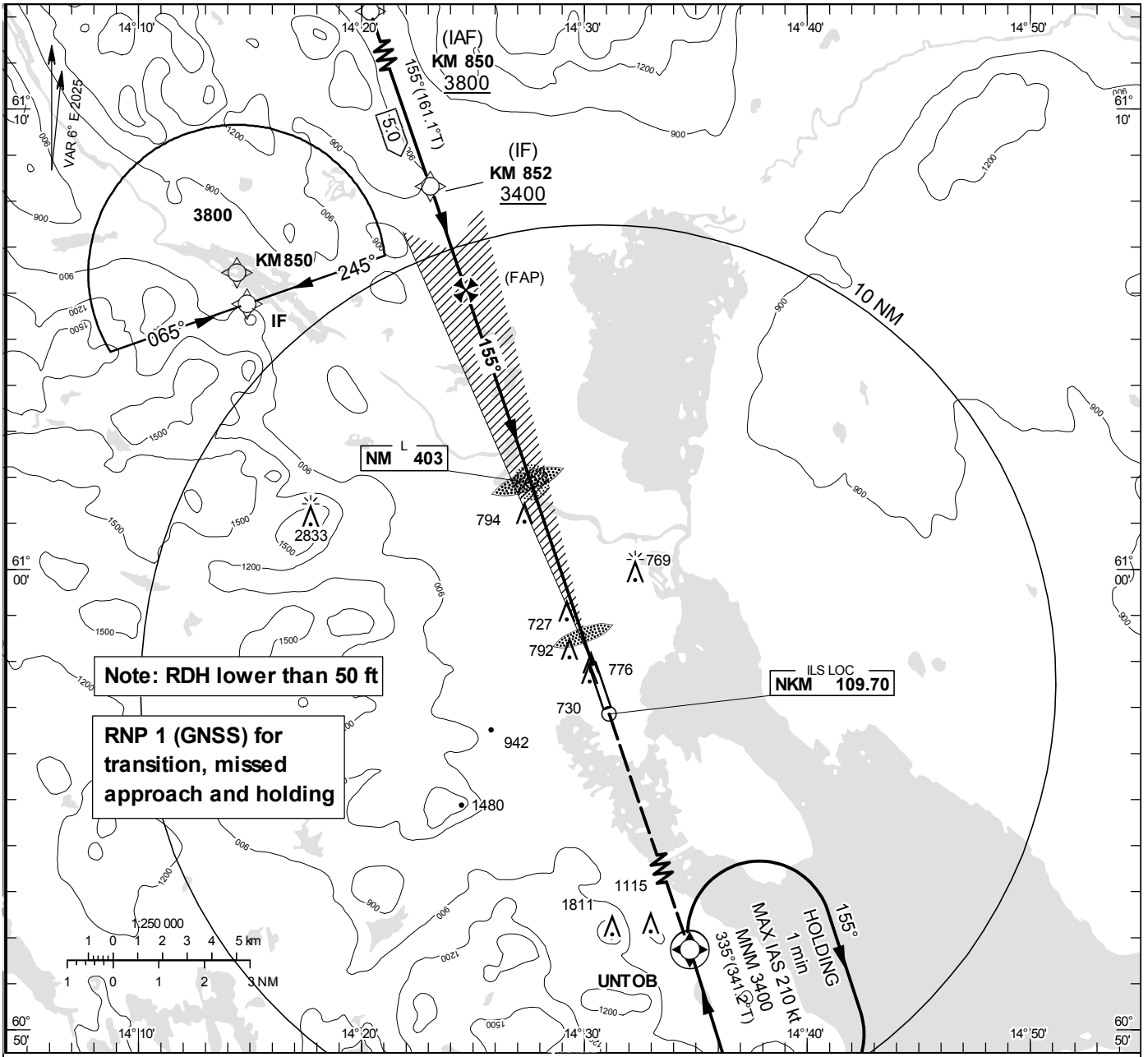


**INSTRUMENT  
APPROACH  
CHART – ICAO**

**THR ELEV 631.2 ft, AD ELEV 635 ft**  
 OCH are related to THR.  
 Circling OCH are related to AD ELEV.  
 BRG are MAG  
 ALT. HGT and ELEV in ft.

MORA INFORMATION 119.055

ILS z RWY 16



		OCA (H)			
Cat of ACFT		A	B	C	D
Straight-in Approach	CAT I	779(147)	789(157)	798(166)	811(179)
	Circling	1090(460)	1240(610)	1880(1250)	2210(1580)
	Circling E RWY	1030(400)	1130(500)	1230(600)	1510(880)





**ESNS 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, <a href="https://tafplanner.smhi.se/app.php/production-program">https://tafplanner.smhi.se/app.php/production-program</a>
4.	Type of landing forecast Interval of issuance	Not issued
5.	Briefing/consultation provided	FPC H24, +46 (0)8 797 63 40, <a href="http://www.lfv.se/fpc">www.lfv.se/fpc</a>
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	SKELLEFTEÅ TWR
10.	Additional information (limitation of service, etc.)	Flight planning room available

**ESNS 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
10	106.24° GEO 096° MAG	2520 x 45	PCN 56 F/B/X/T ASPH	643738.67N 0210320.83E  GUND 71 ft	THR 158 ft
28	286.28° GEO 276° MAG	2520 x 45	PCN 56 F/B/X/T ASPH	643715.89N 0210622.89E  GUND 71.0 ft	THR 122.3 ft TDZ 132.6 ft

Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
10 See ESNS AOC	-	450 x 150	2640 x 280	-	-
28 See ESNS AOC	-	-	2640 x 280	-	-

**ESNS 2.13 DECLARED DISTANCES**

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
10	2520	2970	2520	2520	-
28	2520	2520	2520	2520	-

## ESNS 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
10	Barrette CL 900 m LIH	Green	PAPI Left/3.00° (55.8 ft)	-	-	2520/50 m White Caution zone 600 m yellow LIH	Red	-
28	Barrette CL CAT I 900 m LIH	Green	PAPI Left/3.00° (56.4 ft)	-	-	2520/50 m White Caution zone 600 m yellow LIH	Red	-
10 Remarks: RWY 10: LED lights on RTHL, REDL and RENL. RWY 28: LED lights on RTHL, REDL and RENL.								

## ESNS 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

- ABN/IBN location, characteristics and hours of operation -
- LDI location and LGT  
Anemometer location and LGT Lighted windsock at GP 28 and E Apron  
230 m SE THR 10 and at GP 28
- TWY edge and centre line lighting  
Edge: TWY A  
CL: -  
LED lights on all TWY edge lights  
LED lights on all RGL
- Secondary power supply/switch-over time  
Normally: Available/7 sec  
Less than 1 sec for departure when RVR is below  
800 m.
- Remarks -

## ESNS 2.16 HELICOPTER LANDING AREA

RWY 10/28 to be used

## ESNS 2.17 ATS AIRSPACE

1.	Designation and lateral limits	SKELLEFTEÅ CTR	644318N 0210445E - 643744N 0213134E - 643136N 0212745E - 643156N 0205705E - 643744N 0204604E - 644121N 0204820E - 644318N 0210445E
2.	Vertical limits	SKELLEFTEÅ CTR	<u>2000 ft AMSL</u> GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	SKELLEFTEÅ TOWER Swedish/English	
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	CTR established during hours of TWR.	

## ESNS 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	SKELLEFTEÅ TOWER	122.055	HO	Primary channel VDF
		121.500	HO	VDF

## ESNS 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 28 ILS CAT I (10° E 2025)	NS	109.50 MHz	H24 *	643740.7N 0210304.6E		224 m beyond THR 10. ILS Class I/E/2 On approach from S outside ILS positive coverage, intermittent ID from EFVA ILS VA.
GP		332.60 MHz	H24 *	643722.4N 0210603.4E		Angle 3.0° RDH 53.1 ft 306 m past THR 28 right side During winter angle may vary btn 3.0° and 3.25° due to snow.
DVOR/DME (10° E 2025)	SKA	113.40 MHz	H24 *	643736.1N 0210445.9E	189 ft	DME channel 81X
DME	NS	109.50 MHz	H24 *	643722.6N 0210603.5E	152 ft	DME channel 32X

\* Monitoring of signal in space limited to ATS HR of OPS

**ESNS 2.20 LOKALA TRAFIKFÖRESKRIFTER**

## 1. Tillgänglighet.

PPR erfordras för all trafik utanför ATS öppethållningstid, med undantag för på flygplatsen baserade verksamheter i enlighet med lokala säkerhetsregler.

Vid behov av PPR kontaktas flygplatsen TEL 0910 576 25 eller [insatsledare@sft.se](mailto:insatsledare@sft.se).

2. Med anledning av integrerad räddnings- och ramptjänst skall operatör av luftfartyg för vilket sådan tjänst erfordras begära tillstånd för motorstart hos startmästaren.

## 3. Klarering före uttaxning.

Klarering lämnas på begäran före begäran om start-up. Klarering utfärdas för gällande bana och utpasseringspunkt ur TMA. Uppift om transponderkod lämnas under uttaxning.

4. Minsta möjliga motoreffekt ska användas vid taxning på plattan.

**LOCAL TRAFFIC REGULATIONS**

## 1. Availability.

PPR is required for all traffic outside ATS hours of operation, except for airportbased businesses in accordance with local safety regulations.

For PPR, contact aerodrome phone +46 (0)910 576 25 or [insatsledare@sft.se](mailto:insatsledare@sft.se).

2. Owing to integrated rescue and ramp service operator of aircraft requiring such service shall request permission for engine start from the start-up supervisor.

## 3. Clearance at gate.

ATC clearance will be delivered on request prior to start-up. Such clearance will be issued for RWY in use and TMA exit point. Transponder code will be communicated during taxi.

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

**ESNS 2.21 MINSKNING AV BULLERSTÖRNING**

NIL

**NOISE ABATEMENT PROCEDURES**

NIL

**ESNS 2.22 FLYGPROCEDURER**

## 1. Startprocedurer, omnidirectional

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
10	Climb straight ahead to MNM turning ALT 600 ft. Continue climb to appropriate MSA.	CIO exist	-	-
28	Climb straight ahead to MNM turning ALT 600 ft. Continue climb to appropriate MSA.	CIO exist	-	-

**FLIGHT PROCEDURES**

## 1. Omnidirectional departure procedures

## 2. Lågsiktsprocedurer (LVP) etablerade

Förberedelsefasen träder i kraft när bansynvidden (RVR) understiger 800 m och/eller molntäckeshöjden är 300 ft eller lägre.

LVP träder i kraft när 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.

LVP upphör när bansynvidden (RVR) är större än 550 m och molntäckeshöjden är högre än 200 ft och en fortsatt förbättring av dessa värden är att vänta.

Minimum RVR för avgående trafik 400 m.

Vid RVR mellan 400 m och 300 m är start endast tillåten om operatören har tillstånd för flygplatstrafik i starkt nedsatt sikt från Transportstyrelsen.

När LVP tillämpas tillåts endast ett luftfartyg eller fordon på manöverområdet.

Start från framflyttad position är inte tillåten.

## 2. Low visibility procedures (LVP) established.

The preparation phase will be implemented when RVR falls below 800 m and/or ceiling is at or below 300 ft.

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.

LVP will be terminated when RVR is greater than 550 m and ceiling is greater than 200 ft and continuing improvement in these conditions is anticipated.

Minimum RVR for departing traffic is 400 m.

At RVR between 400 m and 300 m TKOF is only permitted if the operator has permission for Low Visibility Operations from the Swedish Transport Agency.

When LVP applies only one aircraft or vehicles are allowed in the manoeuvring area.

Intersection take-offs are not permitted.

## 3. VFR-flygning inom Skellefteå TMA/CTR

Lufffartyg skall följa föreskrifterna i ENR 1.2.  
Därutöver gäller nedanstående föreskrifter.

Normala in- och utpasseringspunkter  
Se ESNS 6-1

Väntlägen  
Se ESNS 6-1

Avbrott i radioförbindelse  
Se ESNS 6-1

## 3. VFR flight within Skellefteå TMA/CTR

Aircraft shall adhere to the procedures stipulated in ENR 1.2.  
In addition, the procedures specified below shall be applied.

Normal entry and exit points  
See ESNS 6-1

Holdings  
See ESNS 6-1

Communication failure  
See ESNS 6-1

**ESNS 2.23 ÖVRIG INFORMATION**

## 1. Reducerad banseparation.

Reducerad banseparation tillämpas enligt AD 1.1 mom 10  
mellan lufffartyg kategori 1 inbördes.

## 2. Beviljade undantag från krav i CS-ADR-DSN

- Tornet genomtränger de hinderbegränsande ytorna.
- Kod 4E flygplanens stjärtfena tränger igenom övergångsytor vid uppställning på platta.

**ADDITIONAL INFORMATION**

## 1. Reduced runway separation.

Reduced runway separation applies in accordance with AIP  
AD 1.1 para 10 between aircraft of category 1 themselves.

## 2. Granted exemptions from requirements in CS-ADR-DSN

- The tower penetrates the obstacle-limiting surfaces.
- Code 4E aircraft's tail fin penetrates transitional surfaces when parked on apron.

**ESNS 2.24 TILLHÖRANDE KARTOR**

AD chart

AOC

Area chart (TMA)

List of waypoints and significant points

ATC Surveillance Minimum ALT chart

IAC

IAC

IAC

IAC

IAC

VAC

RWY 10/28

ILS or LOC RWY 28

VOR RWY 28

VOR RWY 10

RNP RWY 10

RNP RWY 28

**RELATED CHARTS**

ESNS 2-1

ESNS 3-1

ESNS 4-1

ESNS 4-3

ESNS 4-91

ESNS 5-1

ESNS 5-3

ESNS 5-5

ESNS 5-7

ESNS 5-11

ESNS 6-1





ARP 643729N 0210437E

AD ELEV 158 FEET

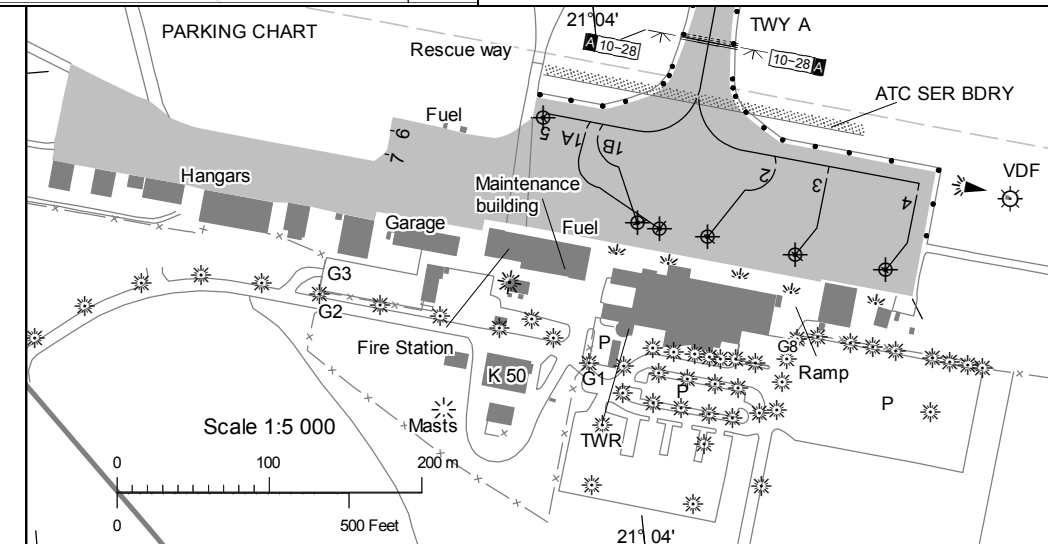
LEGEND See GEN 2.3

Dimensions in m, ELEV in ft

TWY NR	WIDTH	Surface Bearing strength	Day marking		Taxiway lighting	
			Centerline Holding	Edge Centerline	RGL Stopbar	RGL
A	25 m	ASPH PCN 48 F/B/X/T	CL HLDG	EDGE		RGL

INS Coordinates for Aircraft Stands			
APRON Surface Bearing strength	NR	COORD	ELEV
ASPH PCN 48 F/B/X/T	1A	643725.43N 0210402.23E	152
	1B	643725.58N 0210401.16E	152
	2	643725.14N 0210404.55E	152
	3	643724.59N 0210408.81E	152
	4	643724.08N 0210413.18E	151
5	643728.00N 0210357.00E	151	

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
10	106.24° GEO 096° MAG	643738.67N 0210320.83E GUND 71 ft	PCN 56 F/B/X/T	THR 158 ft	2520	2970	2520	2520	Barrette CL 900 m LIH	THR Green	PAPI Left/3.00° (55.8 ft)	2520/50 m White Caution zone 600 m yellow LIH	Red
28	286.28° GEO 276° MAG	643715.89N 0210622.89E GUND 71.0 ft	PCN 56 F/B/X/T	THR 122.3 ft TDZ 132.6 ft	2520	2520	2520	2520	Barrette CL Cat I 900 m LIH	THR Green	PAPI Left/3.00° (56.4 ft)	2520/50 m White Caution zone 600 m yellow LIH	Red







## ESSA 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 01L ILS CAT III (6° E 2020)	SSA	109.90 MHz	HO	594006.4N 0175528.2E		231 m beyond THR 19R LOC Class III/E/4 Poor coverage below 2800 ft at distance 46.3 km (25 NM) west of centreline.
GP		333.80 MHz	HO	593825.8N 0175442.4E		Angle 3.0° RDH 56.1 ft 342 m past THR 01L left side GP Class III/T/4
LOC 19R ILS CAT I (6° E 2020)	NSA	110.70 MHz	HO	593806.0N 0175444.7E		256 m beyond THR 01L LOC Class I/E/2 Poor coverage below 2500 ft distance 46.3 km (25 NM).
GP		330.20 MHz	HO	593949.1N 0175512.2E		Angle 3.0° RDH 50.9 ft 340 m past THR 19R right side GP Class I/T/2
LOC 01R ILS CAT III (6° E 2020)	TSA	109.35 MHz	HO	593903.8N 0175734.9E		292 m beyond THR 19L LOC Class III/E/4
GP		331.85 MHz	HO	593744.7N 0175714.3E		Angle 3.0° RDH 50.9 ft 326 m past THR 01R right side GP Class III/T/4
LOC 19L ILS CAT III (6° E 2020)	USA	111.35 MHz	HO	593725.8N 0175659.3E		291 m beyond THR 01R LOC Class III/E/4
GP		332.15 MHz	HO	593844.5N 0175736.0E		Angle 3.0° RDH 50.9 ft 291 m past THR 19L left side GP Class III/T/4
LOC 08 (6° E 2020)	WSA	109.55 MHz	HO	593952.3N 0175903.0E		291 m beyond THR 26
L 08	WA	348 kHz	H24	593920.8N 0175455.5E		Range 15 NM
LOC 26 ILS CAT I (6° E 2020)	ESA	110.10 MHz	HO	593928.6N 0175556.4E		221 m beyond THR 08 LOC Class I/D/2
GP		334.40 MHz	HO	593951.0N 0175821.2E		Angle 3.0° RDH 53.5 ft 354 m past THR 26 right side GP Class I/C/2
NDB	ERK	383 kHz	H24	595346.5N 0182012.9E		Range 25 NM
NDB	LNA	330 kHz	H24	593220.3N 0172130.1E		Range 25 NM
DVOR/DME (6° E 2020)	ARL	116.00 MHz	H24	593912.3N 0175452.1E	149 ft	DME channel 107X DVOR on R-286 between 14-12 NM interference that can be mistaken for overhead indication.
DME	ANE	113.30 MHz	H24	594138.3N 0180335.5E	120 ft	DME channel 80X
DME	ANW	112.05 MHz	H24	594247.8N 0175109.3E	176 ft	DME channel 57Y
DME	ASE	114.45 MHz	H24	593813.9N 0175726.5E	145 ft	DME channel 91Y
DME	ASW	113.75 MHz	H24	593515.7N	234 ft	DME channel 84Y

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
				0174910.9E		
DME	ESA	110.10 MHz	H24	593951.3N 0175820.9E	159 ft	DME channel 38X
DME	NSA	110.70 MHz	H24	593949.1N 0175511.7E	144 ft	DME channel 44X
DME	SSA	109.90 MHz	H24	593825.9N 0175441.9E	121 ft	DME channel 36X
DME	TSA	109.35 MHz	H24	593744.6N 0175714.8E	162 ft	DME channel 30Y
DME	USA	111.35 MHz	H24	593844.4N 0175736.4E	129 ft	DME channel 50Y

**ESSA 2.20 LOKALA TRAFIKFÖRESKRIFTER****LOCAL TRAFFIC REGULATIONS**

1. Flygplats koordinering
- 1.1 Ansökan om flygplats –SLOT för ankomst och avgång är obligatoriskt för alla flygningar, undantaget nedan;
  - Flygningar som använder STOCKHOLM/Arlanda som alternativ av meteorologiska skäl
  - Flygningar som använder STOCKHOLM/Arlanda som alternativ av medicinska skäl
  - Flygningar som använder STOCKHOLM/Arlanda som alternativ av tekniska skäl
  - Flygningar som använder STOCKHOLM/Arlanda som alternativ av säkerhets skäl
  - Luffartyg på räddningsuppdrag
  - Helikopter flygningar under dager VMC

SLOT begäran skall vara Arlanda SLOT koordinatör tillhanda senast 3 timmar innan beräknad avgång eller ankomst.

Adress:  
Airport Coordination Sweden ACS  
Box 202  
SE-190 47 Stockholm-Arlanda

All flygverksamhet  
Telefon: 070 597 82 66

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

Tjänstgöringstider: H24  
Förändring eller avbokning av begäran om SLOT ska meddelas utan dröjsmål. Godkännande av SLOT ersätter inte färdplan eller begäran om marktjänst.

1. Aerodrome coordination
- 1.1 Allocation of departure and arrival aerodrome SLOTS are mandatory for all flights, unless exempted below;
  - Flights using STOCKHOLM/Arlanda as alternate for meteorological reasons
  - Flights using STOCKHOLM/Arlanda as alternate for medical reasons
  - Flights using STOCKHOLM/Arlanda as alternate for technical reasons
  - Flights using STOCKHOLM/Arlanda as alternate for security reasons
  - Aircraft on rescue missions
  - Helicopter flights during daylight VMC

SLOT request shall be sent to Arlanda Scheduling Coordinator at the latest 3 hours prior to estimated departure or arrival

Address:  
Airport Coordination Sweden ACS  
Box 202  
SE-190 47 Stockholm-Arlanda

All flights  
Phone: +46 (0)70 597 82 66

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

Operational hours: H24  
Any change or cancellation in the request of SLOT shall be reported without delay. SLOT approval does not replace flight plan or handling request.

**ESSB 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 CAT I 900 m LIH	Green	PAPI Left/3.50° (55.8 ft)	white 830 m	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	Calvert CAT I 556 m LIH	Green	PAPI Left/3.50° (37.7 ft)	white 830 m	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	-
<b>10 Remarks:</b> RWY 12: EFAS 900 m from THR. LED lights on EFAS, RCLL and RTZL. RWY 30: EFAS 556 m from THR. LED lights on EFAS, RCLL and RTZL.								

**ESSB 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY**

- |    |  |  |
|----|--|--|
| 1. | ABN/IBN location, characteristics and hours of operation | -  |
| 2. | LDI location and LGT<br>Anemometer location and LGT      | Unlighted windsock BTN RWY and TWY Y and lighted windsocks at aiming points for RWY 12 and 30<br>Unlighted anemometers N of TWY Y1 and N of THR 30 |
| 3. | TWY edge and centre line lighting                        | Edge: TWY G1<br><br>CL: TWY R, S, T, Y, Y1, Y2, Y3, Y4, Y5, YU, YW<br><br>LED lights on all TWY Centre Line LGT<br>LED lights on all RGL           |
| 4. | Secondary power supply/switch-over time                  | Available/less than 1 sec  |
| 5. | Remarks  | -  |

**ESSB 2.16 HELICOPTER LANDING AREA**

Ref AD 2 ESSB 2-3, RWY 12/30 to be used

## ESSB 2.17 ATS AIRSPACE

- |    |                                   |  |   |
|----|-----------------------------------|--|---|
| 1. | Designation and lateral limits    | BROMMA CTR   | 592628N 0174448E - 592629N 0175717E -<br>592258N 0180948E - 591458N 0180948E -<br>591458N 0174448E - 591928N 0174448E -<br>591928N 0174148E - 592158N 0174148E -<br>592158N 0174448E - 592628N 0174448E |
| 2. | Vertical limits                   | BROMMA CTR   | 2000 ft AMSL<br>GND   |
| 3. | Airspace classification           | C  |   |
| 4. | ATS unit call sign<br>Language(s) | BROMMA TOWER   | Swedish/English   |
| 5. | Transition altitude               | 5000 ft AMSL   |   |
| 6. | Remarks                           | CTR established during hours of TWR.<br>Skå-Edeby ATZ with airspace class G penetrates CTR. The lower limit of Bromma CTR in this part is 1000 ft AMSL. For details see ENR 2.2 and AD 2 ESSB 6-1. |   |

## ESSB 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	BROMMA TOWER	118.105	HO	Primary channel
		121.500	HO	-
	BROMMA GROUND	121.605	HO	Taxi freq (start-up and taxi instructions)
ATIS	BROMMA ATIS	122.455	HO	D-ATIS service available

### 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, ensamflygning under grundutbildning 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, solo flights during basic training 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.)

**ESSB 2.21 MINSKNING AV BULLERSTÖRNING**

## 1. Flygplatsbestämmelser

Ljudemissionen för luftfartyg får ej överstiga 89 EPNdB i medeltal för de tre mätpunkterna enligt ICAO Annex 16, Vol I, chapter 3. För luftfartyg i linjefart gäller särskilda restriktioner.

Operatörer som vill tillämpa speciell procedur för att därmed underskrida ovanstående värde måste söka tillstånd av flygplatsledningen. Förfrågan skall åtföljas av uppgifter om typ och modell av flygplan och motor, MTOM samt en beskrivning av föreslagen procedur. Förfrågan kan endast handläggas under kontorstid.

2. APU får inte användas vid parkering vid andra tillfällen än då så krävs vid motorstart eller för reglering av kabintemperatur. APU får startas tidigast 5 min före beräknad tid för push-back eller taxning. Övrig körning av APU, se mom 3.

3. Över de centrala delarna av Stockholm bör luftfartyg inte framföras på lägre höjd än 1500 ft AMSL, utom då så är nödvändigt i samband med start eller landning. De centrala delarna av Stockholm (Stockholm City) innefattar Norrmalm, Östermalm, Gärdet, Djurgården, Gamla Stan, Södermalm, Kungsholmen samt Essingeöarna.

4. I mom 2.22 angivna flygvägar för ankommande och avgående IFR- resp. VFR-trafik har upprättats även för att minska bullerstörningar. Luftfartyg ska noggrant följa i färdtillstånd angiven flygväg samt i övrigt framföras så att onödiga bullerstörningar inte försakas.

5. Följande avgångsprocedur för att reducera buller (NADP) skall tillämpas av alla luftfartyg överstigande 5700 kg MTOM.

ICAO NADP 2

Ref ICAO Doc 8168, Procedures for Air Navigation Services, Aircraft Operations, Vol III.

## 6. Ankommande luftfartyg

Vid landning bör reversering utöver Idle Reverse inte användas.

**ESSB 2.22 FLYGPROCEDURER**

1. Ankommande IFR-trafik inom Stockholm TMA och Bromma CTR

1.1. Ankommande trafik till STOCKHOLM/Bromma ska färdplaneras via tillämplig inpasseringspunkt enligt nedan: TRS, XILAN, HMR, ARS, TINKA och ALOLA.

1.2. Förare ska planera inpassering i Stockholm TMA på höjder enligt STAR-beskrivningar publicerade på sidorna ESSB 4–13 till ESSB 4–19.

1.3. Klarering för lämnande av höjd ges av ATC. Kan angiven höjd inte följas, meddela ATC och ange orsak.

**NOISE ABATEMENT PROCEDURES**

## 1. Aerodrome restrictions

The noise emission must not exceed 89 EPNdB, an average for the three points of measurement in accordance with ICAO Annex 16 Vol I chapter 3. Special restrictions apply to scheduled air transport.

Operators wanting to apply for special procedure to lower their noise emission in order to operate within the limits above must seek permission addressed to the aerodrome manager in writing or in special cases by phone. The request shall include relevant information on type and model of the aircraft and engines, MTOM and an exact description of the suggested procedure. The matter can be handled during office hours only.

2. APU must not be used on parking unless required for engine start or adjustment of cabin heat. APU must not be started earlier than 5 min before estimated time for push-back or taxiing. Other use of APU, see para 3.

3. Over the central parts of Stockholm, aircraft should not be operated below 1500 ft AMSL except when necessary for take-off or landing.

4. The routes for arriving and departing IFR and VFR traffic mentioned in para 2.22 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.

5. Following Noise Abatement departure procedure (NADP) applies to all aircraft exceeding 5700 kg MTOM.

ICAO NADP 2

Ref ICAO Doc 8168, Procedures for Air Navigation Services, Aircraft Operations, Vol III.

## 6. Arriving aircraft

On landing reversing more than Idle Reverse should not be applied.

**FLIGHT PROCEDURES**

1. Inbound IFR traffic within Stockholm TMA och Bromma CTR

1.1. Inbound traffic to STOCKHOLM/Bromma shall be flight planned via applicable TMA entry point as below: TRS, XILAN, HMR, ARS, TINKA and ALOLA.

1.2. Pilots shall plan the descent into Stockholm TMA in accordance with STAR descriptions as published on pages ESSB 4–13 through ESSB 4–19.

1.3. Actual descent clearance will be as directed by ATC. If unable to comply, inform ATC stating reason for non-compliance.

1.4. Flygvägar

Destination STOCKHOLM/Bromma:  
Se sidorna ESSB 4–13 till ESSB 4–19.

1.5. Väntlägen

Väntlägen är upprättade enligt AD 2 **ESSA** 4–2. Luftfartyg som är etablerat i väntläge men som nödgas lämna detsamma för alternativflygplats bör meddela ATC 10–15 min före utträdet.

1.6. Visuellinflygningar tillämpas normalt inte.

1.7. Störningar på LOC 12 kan förekomma om framförvarande luftfartyg lämnar banan via TWY Y5.

2. Avgående IFR-trafik inom Stockholm TMA och Bromma CTR

2.1. Om inte annat anges, ska luftfartyg efter start upprätta dubbelriktad radioförbindelse med STOCKHOLM APPROACH/DEPARTURE på angiven kanal enligt beskrivning i SID.

2.2. Avgående trafik från STOCKHOLM/Bromma ska färdplaneras via tillämplig signifikant punkt enligt följande:

TINKA, RESNA, TOVRI, ALOLA, TRS, NOSLI, PETEV, ARS

2.3. Avgående trafik med destination ESSA STOCKHOLM/Arlanda ska färdplaneras via TEB.

2.4. Flygvägar

Avgång från STOCKHOLM/Bromma:  
Se sidorna ESSB 4–5 till ESSB 4–11.

2.5. Obligatorisk Fly-over waypoint

Avgående IFR-trafik med MTOM överstigande 5700 kg är förbjuden att påbörja sväng före passage av SB559 (bana 12) eller SB850 (bana 30).

3. Startprocedurer, omnidirectional

1.4. Routes

Routes STOCKHOLM/Bromma:  
See pages ESSB 4–13 through ESSB 4–19.

1.5. Holdings

Holding patterns are established in accordance with AD 2 **ESSA** 4–2. When established in holding pattern and deemed necessary to divert, advise ATC 10–15 min before diversion.

1.6. Visual approach is normally not permitted.

1.7. Deviations may occur on LOC 12 if preceding aircraft is vacating RWY via TWY Y5.

2. Outbound IFR traffic within Stockholm TMA och Bromma CTR

2.1. Unless otherwise instructed aircraft shall establish two-way radio communication with STOCKHOLM APPROACH/DEPARTURE on channel as indicated in SID description.

2.2. Outbound traffic from STOCKHOLM/Bromma shall be flight planned via the applicable significant point specified below:

2.3. Outbound traffic with destination ESSA STOCKHOLM/Arlanda shall be flight planned via TEB.

2.4. Routes

Departure from STOCKHOLM/Bromma:  
See pages ESSB 4–5 through ESSB 4–11.

2.5. Mandatory Fly-over waypoint

Outbound IFR-traffic with MTOM exceeding 5700 kg is prohibited to initiate turn before fly-over of SB559 (RWY 12) or SB850 (RWY 30).

3. Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
12	Climb straight ahead with MNM 340 ft/NM (5.6%) to MNM turning ALT 500 ft. Continue climb to appropriate MSA.	Terrain (CIO)	90	131°/1798
		Tree (CIO)	118	131°/1885
		Tree (CIO)	125	131°/1961
		Pylon	289	130°/3428
		Pylon	564	103°/6134
30	Climb straight ahead with MNM 220 ft/NM (3.6%) to MNM turning ALT 700 ft. Continue climb to appropriate MSA.	Antenna (CIO)	81	310°/1743
		Tree (CIO)	137	299°/1900
		Tree	204	306°/3340

4. Avbrott i radioförbindelse

Luftfartyg ska följa de föreskrifter som anges i ENR 1.3 mom 10. Under IMC gäller dessutom följande för ankommande luftfartyg.

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. Ankommande klarering mottagen och kvitterad eller om avbrott i radioförbindelse inträffar under radarledning:

Bibehåll senast tilldelad och kvitterad flyghöjd. Fortsätt direkt till COR. Vid behov, sjunk i COR väntläge (MNM 2500 ft AMSL, MAX IAS 210 kt).

Flygplan med RNAV-kapacitet

Från COR, för bana 12, sväng höger till SB852 för att ansluta till RNAV STAR TRS 1U (ej under 2500 ft AMSL) följt av normal instrumentinflygning.

Från COR, för bana 30, sväng höger till SB706 för att ansluta till RNAV STAR ARS 8Y (ej under 2500 ft AMSL) följt av normal instrumentinflygning.

Flygplan utan RNAV-kapacitet

Från COR, för bana 12, sväng höger till track 070° och anslut till SB DME ARC 13. Sväng vänster och fortsätt på SB DME ARC 13. Sväng höger och angör LOC SB, ej under 2500 ft fram till FAP/FAF:

Från COR, för bana 30, sväng höger till track 070° och anslut till SB DME ARC 13. Sväng höger och fortsätt på SB DME ARC 13. Sväng vänster och angör LOC SBA, ej under 2500 ft fram till FAP/FAF.

Har EAT mottagits och kvitterats, påbörja nedgången till 2500 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 COR (undantag: från HMR VOR fortsätt via TOVRI – SB561 till COR; från XILAN fortsätt via SB532 – SB561 till COR). Efter ankomst över COR, sjunk till 2500 ft AMSL i publicerat väntläge.

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 COR. If required descend in HLDG COR (MNM 2500 ft AMSL, MAX IAS 210 kt).

ACFT with RNAV capability

From COR, for RWY 12, turn right to SB852 to join RNAV STAR TRS 1U (not below 2500 ft AMSL) for a normal instrument approach.

From COR, for RWY 30, turn right to SB706 to join RNAV STAR ARS 8Y (not below 2500 ft AMSL) for a normal instrument approach.

ACFT without RNAV capability

From COR, for RWY 12, turn right to track 070° to join SB DME ARC 13. Turn left and proceed on SB DME ARC 13. Turn right and intercept LOC SB, not below 2500 ft until FAP/FAF.

From COR, for RWY 30, turn right to track 070° to join SB DME ARC 13. Turn right and proceed on SB DME ARC 13. Turn left and intercept LOC SBA, not below 2500 ft until FAP/FAF.

If an EAT has been received and acknowledged, commence the above descent to 2500 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 COR (exceptions: from HMR VOR proceed via TOVRI – SB561 to COR; from XILAN proceed via SB532 – SB561 to COR).

After arrival over COR, descend to 2500 ft AMSL in the published holding pattern.

Flygplan med RNAV-kapacitet

Från COR, för bana 12, sväng höger till SB852 för att ansluta till RNAV STAR TRS 1U (ej under 2500 ft AMSL) följt av normal instrumentinflygning.

Från COR, bana 30, sväng höger till SB706 för att ansluta till RNAV STAR ARS 8Y (ej under 2500 ft AMSL) följt av normal instrumentinflygning.

Flygplan utan RNAV-kapacitet

Från COR, för bana 12, sväng höger till track 070° och anslut till SB DME ARC 13. Sväng vänster och fortsätt på SB DME ARC 13. Sväng höger och angör LOC SB, ej under 2500 ft fram till FAP/FAF.

Från COR, för bana 30, sväng höger till track 070° och anslut till SB DME ARC 13. Sväng höger och fortsätt på SB DME ARC 13. Sväng vänster och angör LOC SBA, ej under 2500 ft fram till FAP/FAF.

4.3. Avbruten inflygning

Se ESSB 5–1 till ESSB 5–6.

5. Lågsiktsprocedurer (LVP)

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 ATIS och/eller av ATS.

När LVP tillämpas tillåts endast ett luftfartyg alternativt fordon på manöverområdet.

6. VFR-FLYGNING

6.1. STOCKHOLM TMA

Luftfartyg skall följa föreskrifterna i ENR 1.2.

6.2. STOCKHOLM/ Bromma CTR

Luftfartyg skall följa föreskrifterna i ENR 1.2.

Därutöver gäller följande:

Normala in- och utpasseringspunkter:

Se sid ESSB–6–1 and ESSB–6–3/4.

Normala in- och utflygningssvägar:

Se sid ESSB–6–3/4.

Väntlägen:

Se sid ESSB–6–3/4.

Avbrott i radioförbindelse:

Se sid ESSB–6–3/4.

SSR-transponder

För all luftfart vid flygning inom Bromma CTR gäller krav på transponder. När individuell SSR-kod ej erhållits skall all luftfart använda SSR-kod 7000 utan anmodan från ATS.

ACFT with RNAV capability

From COR, for RWY 12, turn right to SB852 to join RNAV STAR TRS 1U (not below 2500 ft AMSL) for a normal instrument approach.

From COR, for RWY 30, turn right to SB706 to join RNAV STAR ARS 8Y (not below 2500 ft AMSL) for a normal instrument approach.

ACFT without RNAV capability

From COR, for RWY 12, turn right to track 070° to join SB DME ARC 13. Turn left and proceed on SB DME ARC 13. Turn right and intercept LOC SB, not below 2500 ft until FAP/FAF.

Från COR, för RWY 30, turn right to track 070° to join SB DME ARC 13. Turn right and proceed on SB DME ARC 13. Turn left and intercept LOC SBA, not below 2500 ft until FAP/FAF.

4.3. Missed approach

See ESSB 5–1 through ESSB 5–6.

5. Low visibility procedures (LVP)

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 ATIS and/or ATS.

When LVP is applied only one aircraft or vehicle is allowed in the manoeuvring area.

6. VFR FLIGHT

6.1. STOCKHOLM TMA

Aircraft shall adhere to the procedures stipulated in ENR 1.2.

6.2. STOCKHOLM/ Bromma 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 pages ESSB–6–1 and ESSB–6–3/4.

Normal inbound and outbound routes:

See pages ESSB–6–3/4.

Holdings:

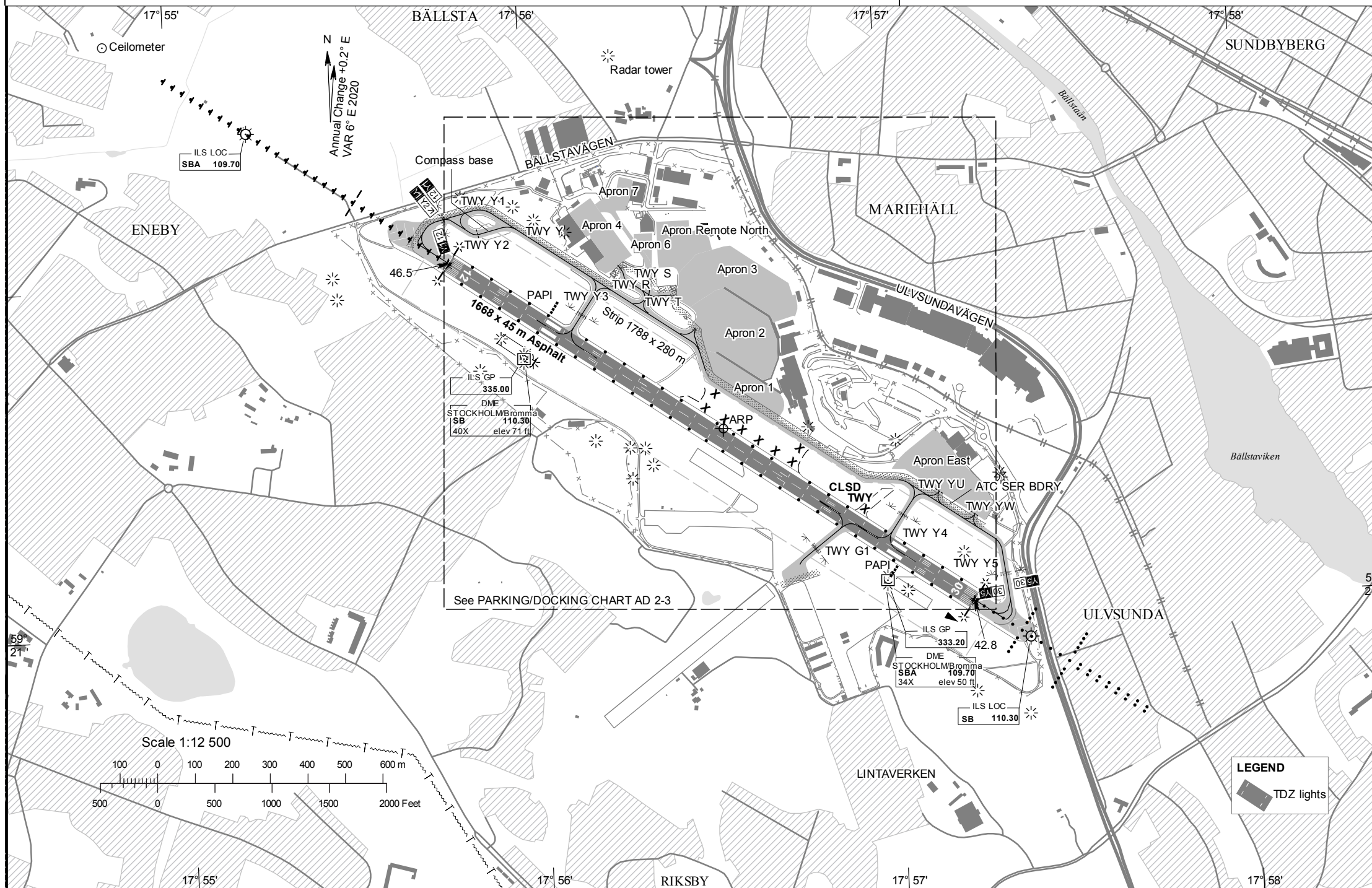
See pages ESSB–6–3/4.

Communication failure:

See pages ESSB–6–3/4.

SSR transponder

Transponder is required by all air traffic operating within Bromma CTR. When an individual SSR-code has not been received, all operators shall use SSR-code 7000 without instruction from ATS.



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	RGL 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 81 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 BGN RWY: 592133.25N 0175540.98E	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 BGN RWY: 592058.22N 0175718.91E	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.



ARP 592116N 0175632E

LEGEND See GEN 2.3

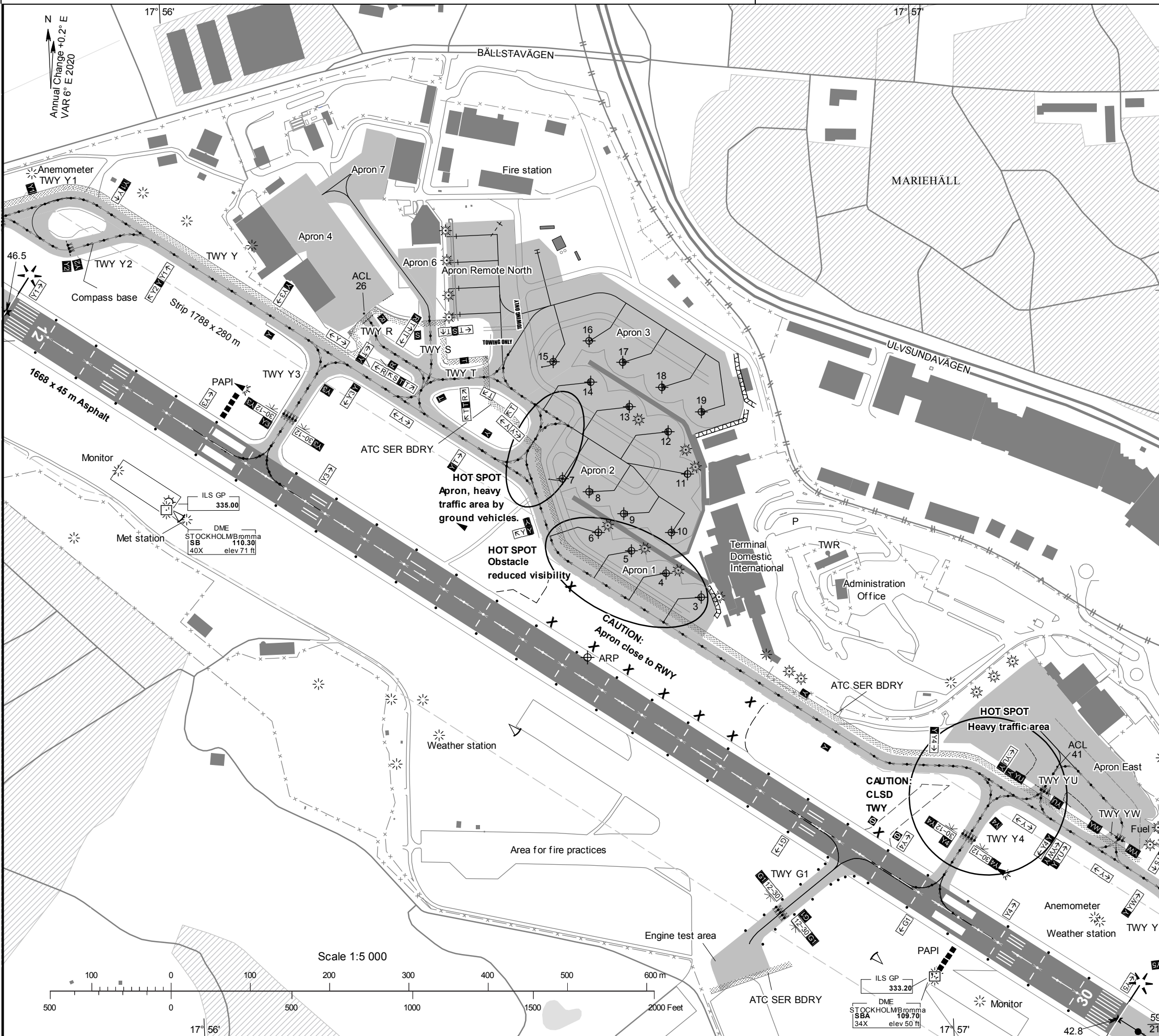
AD ELEV 47 FEET

Dimensions in m, ELEV in ft

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 81 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
Apron 2 ASPH PCN 85 F/B/X/T	6	592121.09 N 0175633.30 E	18
	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
Apron 3 ASPH PCN 71 F/B/X/T	13	592126.18 N 0175636.24 E	16
	14	592127.26 N 0175633.22 E	18
	15	592128.16 N 0175630.31 E	18
	16	592128.95 N 0175633.26 E	19
Apron East ASPH PCN 98 F/A/X/T (W part: PCN 30 F/A/X/T)	17	592128.02 N 0175635.87 E	18
	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			







**AD 2 AERODROMES****ESND 2.1 AERODROME LOCATION INDICATOR AND NAME****ESND – SVEG****ESND 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

- |    |  |  |
|----|--|--|
| 1. | ARP coordinates and site at AD               | 620252N 0142527E RWY 687 m from THR 27   |
| 2. | Direction and distance from (city)           | NE 2.4 NM from Sveg  |
| 3. | Elevation/Reference temperature              | 1178 ft/+23.3°C  |
| 4. | Geoid undulation at AD ELEV PSN              | 109 ft   |
| 5. | MAG VAR/Annual change                        | 6° E 2025/+0.2 increasing  |
| 6. | Administration, address, telephone, fax, AFS | Härjedalen Airport<br>Flygplatsvägen 5<br>SE-842 92 Sveg<br>TEL: +46 (0)680 71 42 50<br>E-mail: info@harjedalenairport.se<br>AFS: ESNDZTX<br>Website: www.harjedalenairport.se |
| 7. | Types of traffic permitted (IFR/VFR)         | IFR/VFR. Max RWY ref code 3C   |
| 8. | Remarks                                      | PPR for IFR traffic and ACFT that requires RWY ref code 3C<br>IFR traffic requires ATS availability<br>VFR traffic without ATS upon PIC discretion                             |

**ESND 2.3 OPERATIONAL HOURS**

- |     |   |  |
|-----|---|--|
| 1.  | AD Administration<br>AD Operating hours | Ref AIP SUP/NOTAM<br>H24   |
| 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)              | H24  |
| 6.  | MET Briefing Office                     | FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc                                |
| 7.  | ATS                                     | AFIS for SKED TFC, other O/R from AD<br>Administration +46 (0)680 71 13 51 |
| 8.  | Fuelling                                | As AD Administration   |
| 9.  | Handling                                | As AD Administration   |
| 10. | Security                                | O/R  |
| 11. | De-Icing                                | As AD Administration   |
| 12. | Remarks                                 | -  |

**ESND 2.4 HANDLING SERVICES AND FACILITIES**

1.	Cargo-handling facilities	-
2.	Fuel/oil types	Fuel Jet A1, 100LL Oil -
3.	Fuelling facilities/discharge capacity	Jet A1: 50,000 l in stationary unit and 20,000 l in fuel truck 100LL: 20,000 l in stationary unit
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	-

**ESND 2.5 PASSENGER FACILITIES**

1.	Hotels	In Sveg
2.	Restaurants	In Sveg
3.	Transportation	Taxis, rental cars
4.	Medical facilities	In Sveg
5.	Bank and Post Office	In Sveg
6.	Tourist Office	In Sveg
7.	Remarks	-

**ESND 2.6 RESCUE AND FIRE FIGHTING SERVICES**

1.	AD category for fire fighting	Cat 3 for SKED TFC, up to CAT 5 O/R 24 HR PN +46 (0)680 71 13 50
2.	Rescue equipment	By arrangement, municipal rescue service
3.	Capability for removal of disabled aircraft	By arrangement, contact aerodrome coordinator +46(0)680 71 13 50
4.	Remarks	-

**ESND 2.7 SEASONAL AVAILABILITY – CLEARING**

1.	Types of clearing equipment	Blowers, sweepers, slingers, snowplough
2.	Clearance priorities	RWY, TWY, Apron
3.	Remarks	Normally no clearing SAT and HOL



**ESND 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA**

- |    |                                     |  |
|----|-------------------------------------|--|
| 1. | Apron surface and strength          | Apron E ASPH PCN 33 F/B/X/T<br>Apron W ASPH PCN 23 F/B/X/T |
| 2. | Taxiway width, surface and strength | TWY A 15 m ASPH PCN 20 F/B/X/T                             |
| 3. | ACL, location and elevation         | Apron 1172 ft  |
| 4. | VOR checkpoints                     | -  |
| 5. | INS checkpoints                     | -  |
| 6. | Remarks                             | -  |

**ESND 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 | -  |
| 2. | RWY and TWY markings and LGT  | RWY 09/27: Designator, THR, TDZ, CL and edges are day marked.<br>RTHL, REDL, RENL<br><br>TWY A: CL, HLDG, day marked. Edge lights, RGL |
| 3. | Stop bars   | -  |
| 4. | Remarks   | -  |

## ESND 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
ESND1	Navaid	620253.4N 0142628.8E	1188 / -	-	-
ESND2	Tree	620259.1N 0142659.8E	1207 / -	-	-
ESND3	Tree	620259.3N 0142702.9E	1225 / -	-	-
ESND4	Tree	620259.5N 0142703.8E	1227 / -	-	-
ESND5	Tree	620258.8N 0142705.1E	1236 / -	-	-
ESND6	Tree	620257.9N 0142707.3E	1242 / -	-	-
ESND7	Fence	620249.7N 0142406.9E	1179 / -	-	-
ESND8	Fence	620250.0N 0142406.8E	1180 / -	-	-
ESND9	Tree	620246.9N 0142344.0E	1195 / -	-	-
ESND10	Vegetation	620250.8N 0142341.5E	1196 / -	-	-
ESND11	Tree	620250.7N 0142340.9E	1197 / -	-	-
ESND12	Tree	620247.1N 0142338.2E	1212 / -	-	-
ESND13	Tree	620244.4N 0142333.9E	1219 / -	-	-
ESND14	Tree	620244.8N 0142333.0E	1220 / -	-	-
ESND15	Tree	620254.8N 0142325.8E	1239 / -	-	-
ESND16	Tree	620303.2N 0141904.6E	1391 / -	-	-
In Area 3					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
Not available					

**ESND 2.11 METEOROLOGICAL INFORMATION PROVIDED**

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

**ESND 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
09	087.03° GEO 081° MAG	1701 x 30	PCN 29 F/B/X/T ASPH	620250.41N 0142417.28E  GUND 109 ft	THR 1172.7 ft TDZ 1177 ft
27	267.06° GEO 261° MAG	1701 x 30	PCN 29 F/B/X/T ASPH	620253.24N 0142614.19E  GUND 109 ft	THR 1177 ft

Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
09 See ESND AOC	-	-	1821 x 280	-	See AD Chart for Strip limitation.
27 See ESND AOC	-	-	1821 x 280	-	See AD Chart for Strip limitation.

**ESND 2.13 DECLARED DISTANCES**

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
09	1701	1701	1701	1701	-
27	1701	1701	1701	1701	-

## ESND 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
09	Barrette CL CAT I 630 m LIL/LIH	Green	PAPI Left/3.00° (50.0 ft)	-	-	1701/60 m White Caution zone 575 m yellow LIL/LIH	Red	-
27	-	Green	PAPI Left/3.00° (50.0 ft)	-	-	1701/60 m White Caution zone 575 m yellow LIL/LIH	Red	-

10 Remarks: RWY 09: LED lights on APCH, RTHL, REDL and RENL  
PCL LIL RWY on channel 122.205 for 8 SEC.  
RWY 27: LED lights on RTHL, REDL and RENL  
PCL LIL RWY on channel 122.205 for 8 SEC.

## ESND 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 windsocks S TDZ RWY 09/27  
200 m past THR 09 right side, lighted  
150 m past THR 27 left side, lighted
3. TWY edge and centre line lighting  
Edge: TWY A  
CL: -  
LED lights on all TWY edge lights  
LED lights on all RGL
4. Secondary power supply/switch-over time Available/15 sec
5. Remarks -

## ESND 2.16 HELICOPTER LANDING AREA

RWY 09/27 to be used

## ESND 2.17 ATS AIRSPACE

1.	Designation and lateral limits	SVEG TIZ/RMZ	620742N 0142424E - 620414N 0144438E - 620224N 0144449E - 615800N 0142524E - 620051N 0140547E - 620352N 0140528E - 620742N 0142424E
2.	Vertical limits	SVEG TIZ/RMZ	<u>3500 ft AMSL</u> GND
3.	Airspace classification	G	
4.	ATS unit call sign Language(s)	SVEG INFORMATION Swedish/English	
5.	Transition altitude	6000 ft AMSL	
6.	Remarks	Continuous two-way radiocommunication required in TIZ/RMZ. TIZ/RMZ established during hours of AFIS.	

## ESND 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
AFIS	SVEG INFORMATION	122.205	HO	-
		121.500	HO	-

## ESND 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 2025)	IND	109.10 MHz	H24	620253.6N 0142628.7E		210 m beyond THR 27 ILS Class I/E/2
GP		331.40 MHz	H24	620254.8N 0142437.8E		Angle 3.0° RDH 53 ft 305 m past THR 09
L 09	OY	368 kHz	H24	620243.5N 0141934.0E		Range 30 NM
DME	IND	109.10 MHz	H24	620255.0N 0142437.8E	1201 ft	DME channel 28X
DME	SVE	113.95 MHz	H24	620247.2N 0142443.4E	1175 ft	DME channel 86Y

## ESND 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. Vid VFR-landning utanför ATS öppethållning ska avsikt att landa samt ETA tydligt aviseras på kanal 122.205 och banan ska korsas (500 ft + trafikvarvshöjd) för att säkerställa fri tillgänglighet samt att uppmärksamma eventuella personer och annan trafik på banan. Om bana och stråk inte är tillgänglig i sin fulla längd och bredd så ska inte landning genomföras.

2. Vid start utanför ATS öppethållning ska avsikt att starta och ETD tydligt aviseras på kanal 122.205. Är bana och stråk inte tillgänglig i sin fulla längd och bredd så ska inte start genomföras.

## LOCAL TRAFFIC REGULATIONS

For VFR landing outside ATS hours the intention to land and ETA should be clearly declared on channel 122.205 followed by a RWY crossing (500 ft + traffic pattern altitude) in order to verify RWY availability and alerting any persons and other traffic on RWY. If the runway and runway strip are not available in their full length and width, the landing should not be carried out.

For take-off outside ATS hours the intention to take-off and ETD shall be clearly declared on channel 122.205. If the runway and runway strip are not available in their full length and width, the start should not be carried out.

**ESND 2.21 MINSKNING AV BULLERSTÖRNING**

1. Överflygning av Sveg samhälle bör undvikas.
2. Efter start RWY 27 får vänstersväng inte påbörjas förrän en höjd av 2500 ft AMSL har uppnåtts.

**ESND 2.22 FLYGPROCEDURER**

Startprocedurer, omnidirectional

**NOISE ABATEMENT PROCEDURES**

1. Overflying of the built up areas of Sveg should be avoided.
2. After take-off RWY 27 left hand turn must not be initiated until an altitude of 2500 ft AMSL has been reached.

**FLIGHT PROCEDURES**

Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
09	Climb straight ahead to MNM turning ALT 2000 ft. Continue climb to appropriate MSA. Sector 188° – 218° GEO from ARP not to be entered until ALT 3900 ft is reached. Close-in obstacles exist.	Antenna	3391	199°/14620
		Antenna	1730	069°/6450
		CIO exist		
27	Climb straight ahead to MNM turning ALT 2300 ft. Continue climb to appropriate MSA. Sector 188° – 218° GEO from ARP not to be entered until ALT 4000 ft is reached. Close-in obstacles exist.	Antenna	3391	205°/15350
		Antenna	2240	224°/8840
		CIO exist		

**ESND 2.23 ÖVRIG INFORMATION**

1. Operatörer av kommersiell flygtransport (CAT) vid Sveg flygplats med luftfartyg av ICAO kod C ska klassificera flygplatsen som kategori B, ref EASA AMC1 ORO.FC.105 (b) (2);(c), p.g.a. stråkets avvikelser från standardmått samt att väntplats TWY A är placerad 75 m från banans centrumlinje.
2. En rad med ljus söder om banan kan förväxlas med inflygningsljus till bana 09.
3. Inflygningsljus bana 09  
Flygplatsens inhägnad genomtränger ljusplanet 150 m före tröskel.
4. Bankantljus bana 09/27 upphöjda 65 cm över marken. Sista paret sänkt för vändning.
5. Beviljade undantag från krav i CS ADR-DSN:
  - Bana för precisionsinflygning - Fasta hinder genomtränger koniska ytor i NO och SV.

**ADDITIONAL INFORMATION**

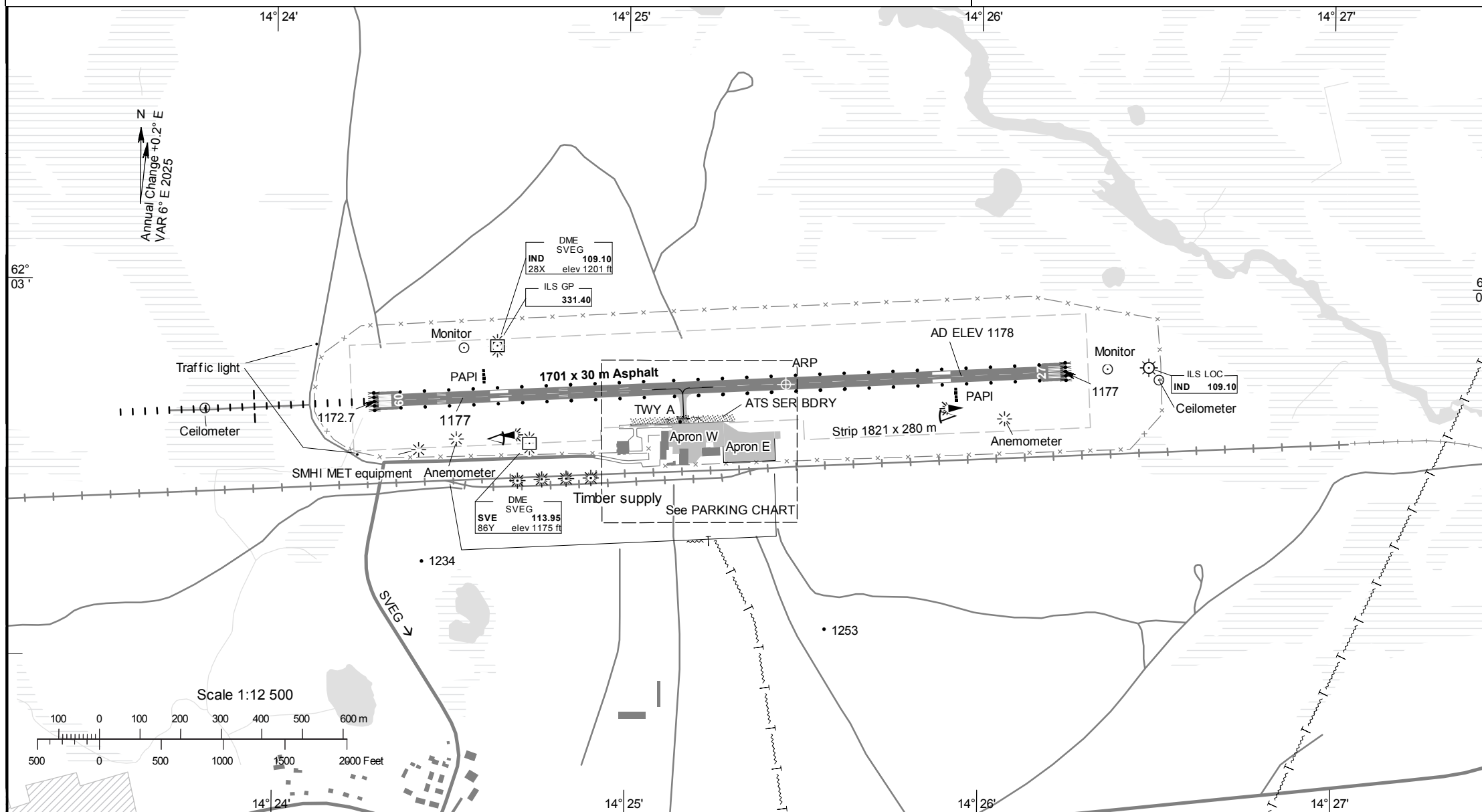
1. Commercial air transport (CAT) operators at Sveg aerodrome with ICAO code letter C aircraft shall classify the aerodrome as category B, ref EASA AMC1 ORO.FC.105 (b) (2);(c). This is due to the non-standard dimensions of the strip and that TWY A holding point is positioned 75 m from RWY CL.
2. A row of lights south of RWY may be mistaken for approach light system to RWY 09.
3. Approach lighting system RWY 09  
Airport perimeter fence penetrates light plane 150 m from THR.
4. Runway edge lights RWY 09/27 raised 65 cm above ground. Last pair lowered for turnaround.
5. Granted exemptions from requirements in CS ADR-DSN:
  - Precision approach runways – Fixed obstacles penetrate conical surface in NE and SW.

**ESND 2.24 TILLHÖRANDE KARTOR**

AD chart	
AOC	RWY 09/27
List of waypoints and significant points	
IAC	ILS z or LOC z RWY 09
IAC	ILS y or LOC y RWY 09
IAC	NDB RWY 09
IAC	RNP RWY 09
IAC	RNP RWY 27
VAC	

**RELATED CHARTS**

ESND 2-1
ESND-3-1
ESND 4-3
ESND 5-1
ESND 5-2
ESND 5-3
ESND 5-5
ESND 5-9
ESND 6-1



ARP 620252N 0142527E

AD ELEV 1178 FEET

LEGEND See GEN 2.3

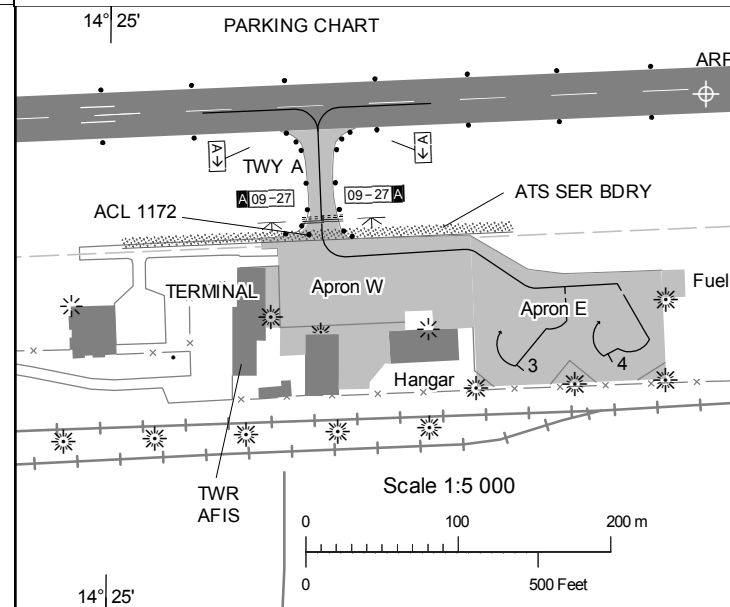
Dimensions in m, ELEV in ft

TWY NR	WIDTH	Surface Bearing strength	Day marking		Taxiway lighting	
			Centerline Holding	Edge Centerline	RGL Stopbar	RGL
A	15 m	PCN 20 F/B/X/T	CL HLDG	EDGE		RGL

INS Coordinates for Aircraft Stands			
APRON Surface Bearing strength	NR	COORD	ELEV
Apron E ASPH PCN 33 F/B/X/T			
Apron W ASPH PCN 23 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
09	087.03° GEO 081° MAG	620250.41N 0142417.28E GUND 109.0 ft	PCN 29 F/B/X/T	THR 1172.7 ft TDZ 1177 ft	1701	1701	1701	1701	Barrette CL Cat I 630 m LIL/LIH	THR Green	PAPI Left/3.00° (50.0 ft)		1701/60 m White Caution zone 575 m yellow LIL/LIH	Red
27	267.06° GEO 261° MAG	620253.24N 0142614.19E GUND 109 ft	PCN 29 F/B/X/T	THR 1177 ft	1701	1701	1701	1701		THR Green	PAPI Left/3.00° (50.0 ft)		1701/60 m White Caution zone 575 m yellow LIL/LIH	Red

REMARK : Caution advised. A row of lights S of RWY may be mistaken for approach light system to RWY 09.  
Note that strip dimensions are non standard for ref code 3C (full strip width is not met for parts of the strip south of runway).



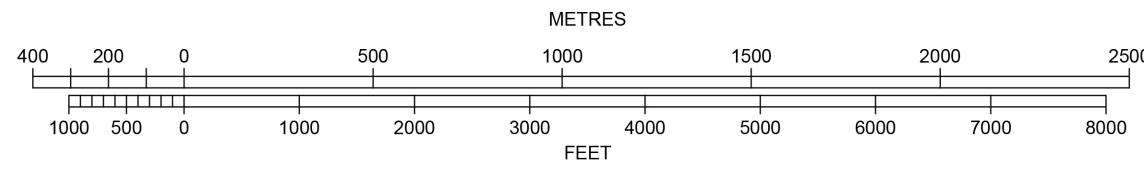
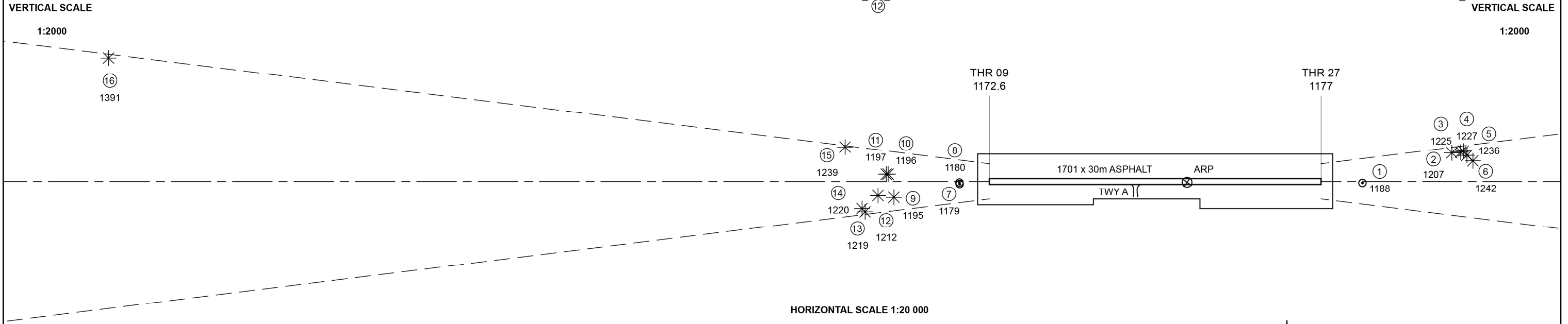
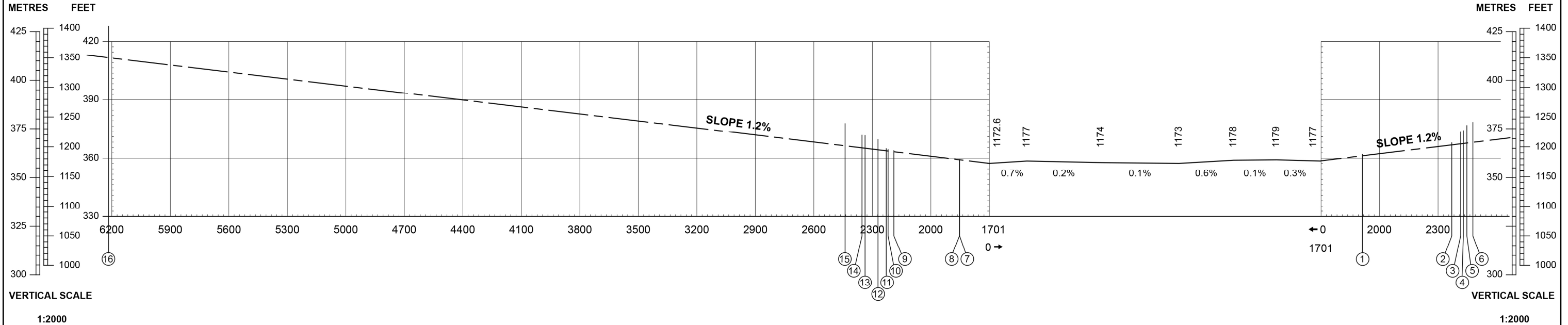




**AERODROME ELEVATION 1178 FEET**  
MAGNETIC VARIATION 6° E 2025

**RUNWAY BEARINGS**  
01 = GEO 087.03°; MAG 081°  
19 = GEO 267.06°; MAG 261°

RWY 09	DECLARED DISTANCES	RWY 27
1701	TAKE-OFF RUN AVAILABLE	1701
1701	TAKE-OFF DISTANCE AVAILABLE	1701
1701	ACCELERATE STOP DIST. AVAILABLE	1701
1701	LANDING DISTANCE AVAILABLE	1701



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	▲

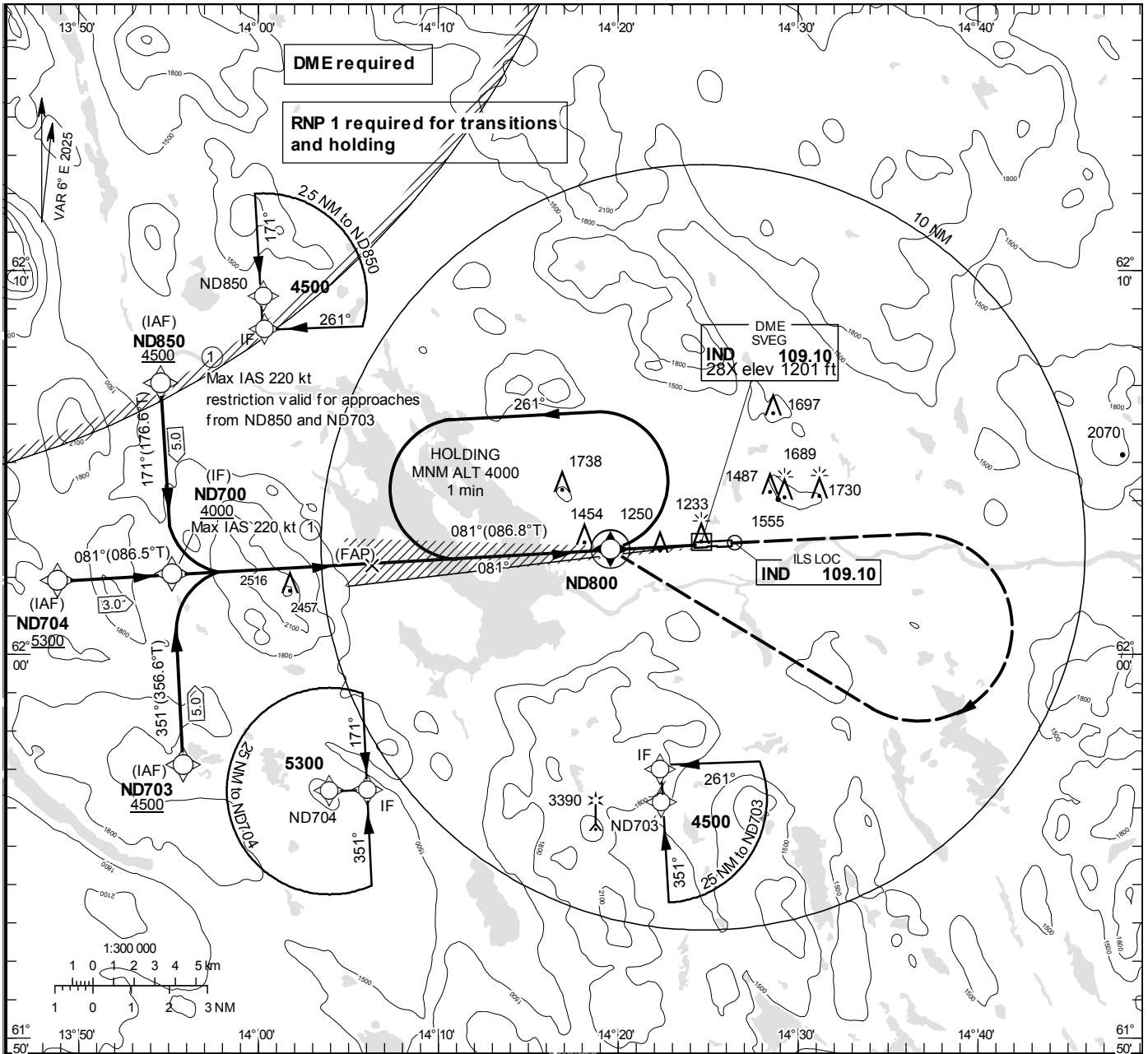


**INSTRUMENT APPROACH CHART – ICAO**

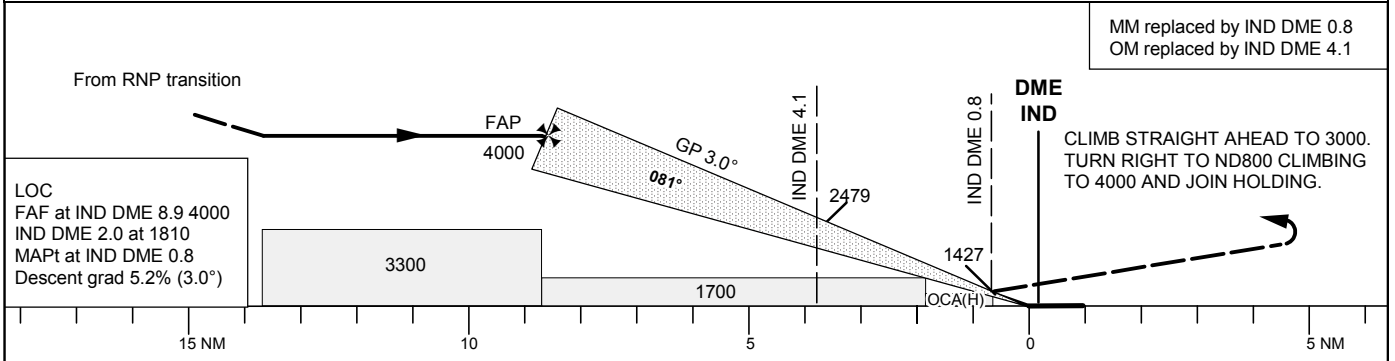
THR ELEV 1172.7 ft, AD ELEV 1178 ft  
 OCH are related to THR.  
 Circling OCH are related to AD ELEV.  
 BRG are MAG  
 ALT, HGT and ELEV in ft.

SVEG INFORMATION 122.205

ILS z or LOC z RWY 09



TA 6000 ft AMSL RDH 53.1 \*Timing not authorized for defining the MAPt



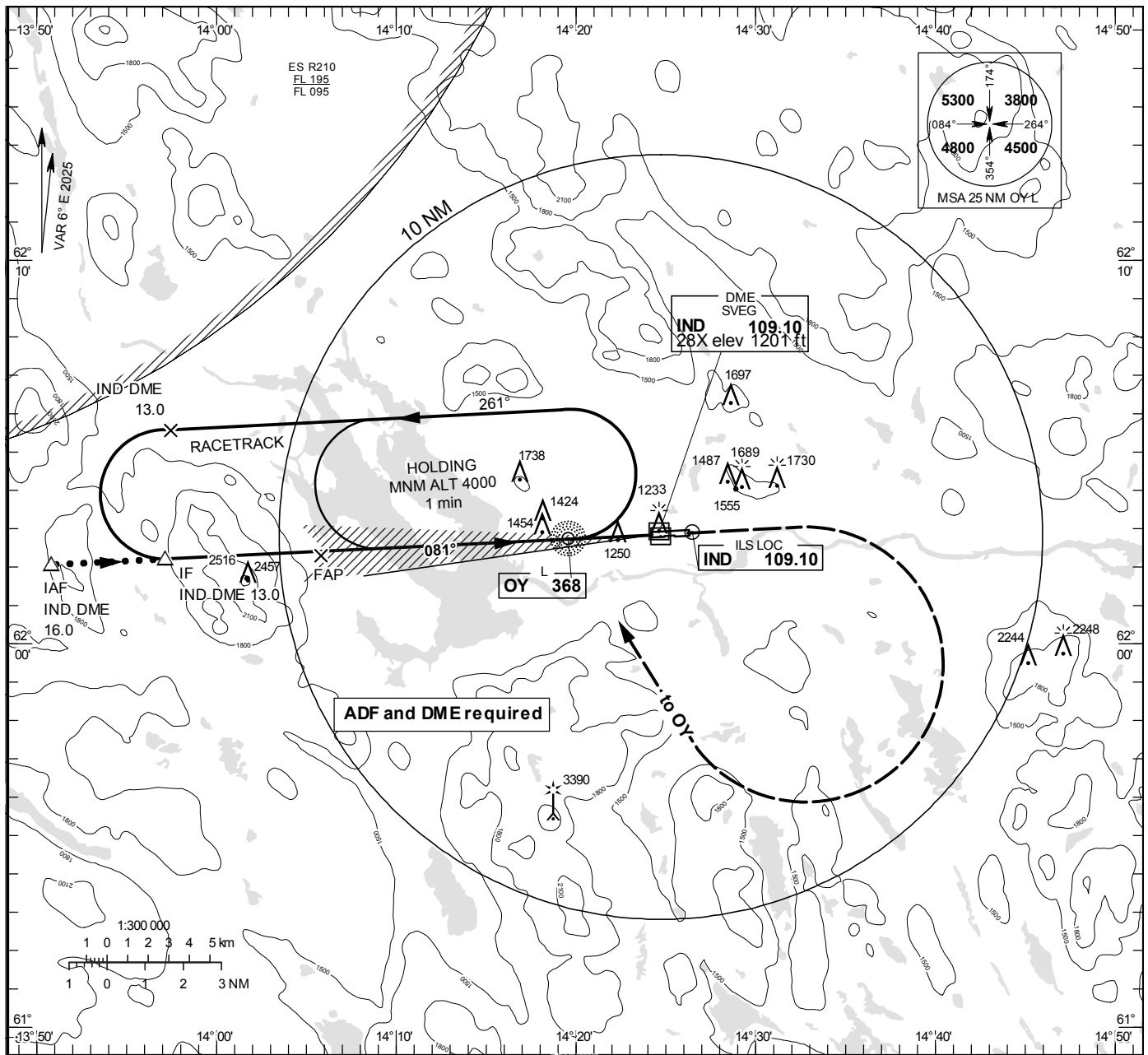
		OCA (H)			Final approach	Distance FAF-MAPt 8.1 NM*						
Cat of ACFT		A	B	C	DME IND NM	8	7	6	5	4	3	2
Straight-in Approach	CAT I	1328 (155)	1338 (165)	1350 (177)	ALT	3720	3400	3080	2770	2450	2130	1810
	LOC		1500 (330)		GS	kt	80	100	120	140	160	
Circling N RWY		1850 (680)	2200 (1030)	2640 (1470)	Time	min:s	6:03	4:50	4:02	3:27	3:01	
		1790 (620)	2030 (860)	2140 (970)	Rate of descent	ft/min	425	530	635	745	850	

ILS y or LOC y RWY 09

SVEG INFORMATION 122.205

THR ELEV 1172.7 ft, AD ELEV 1178 ft  
OCH are related to THR.  
Circling OCH are related to AD ELEV.  
BRG are MAG  
ALT. HGT and ELEV in ft.

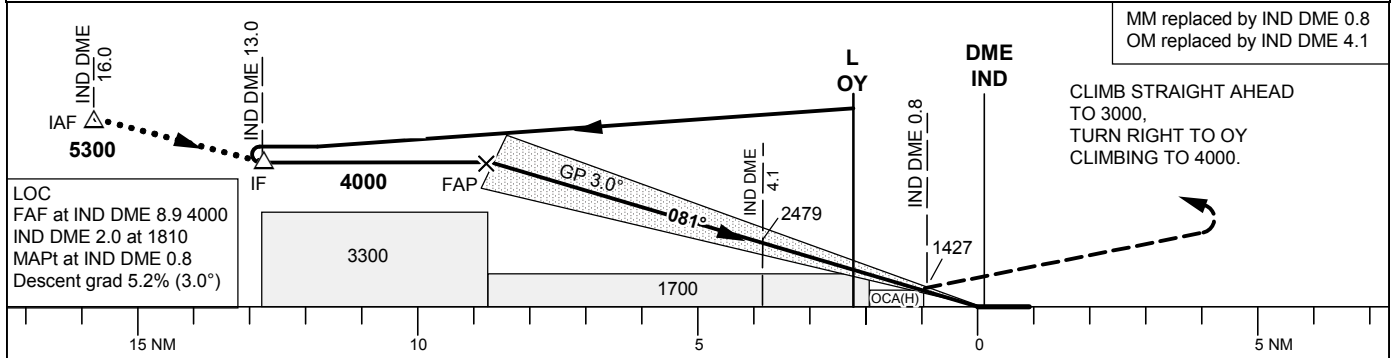
INSTRUMENT  
APPROACH  
CHART - ICAO



TA 6000 ft AMSL

RDH 53.1

\*Timing not authorized for defining the MAPt



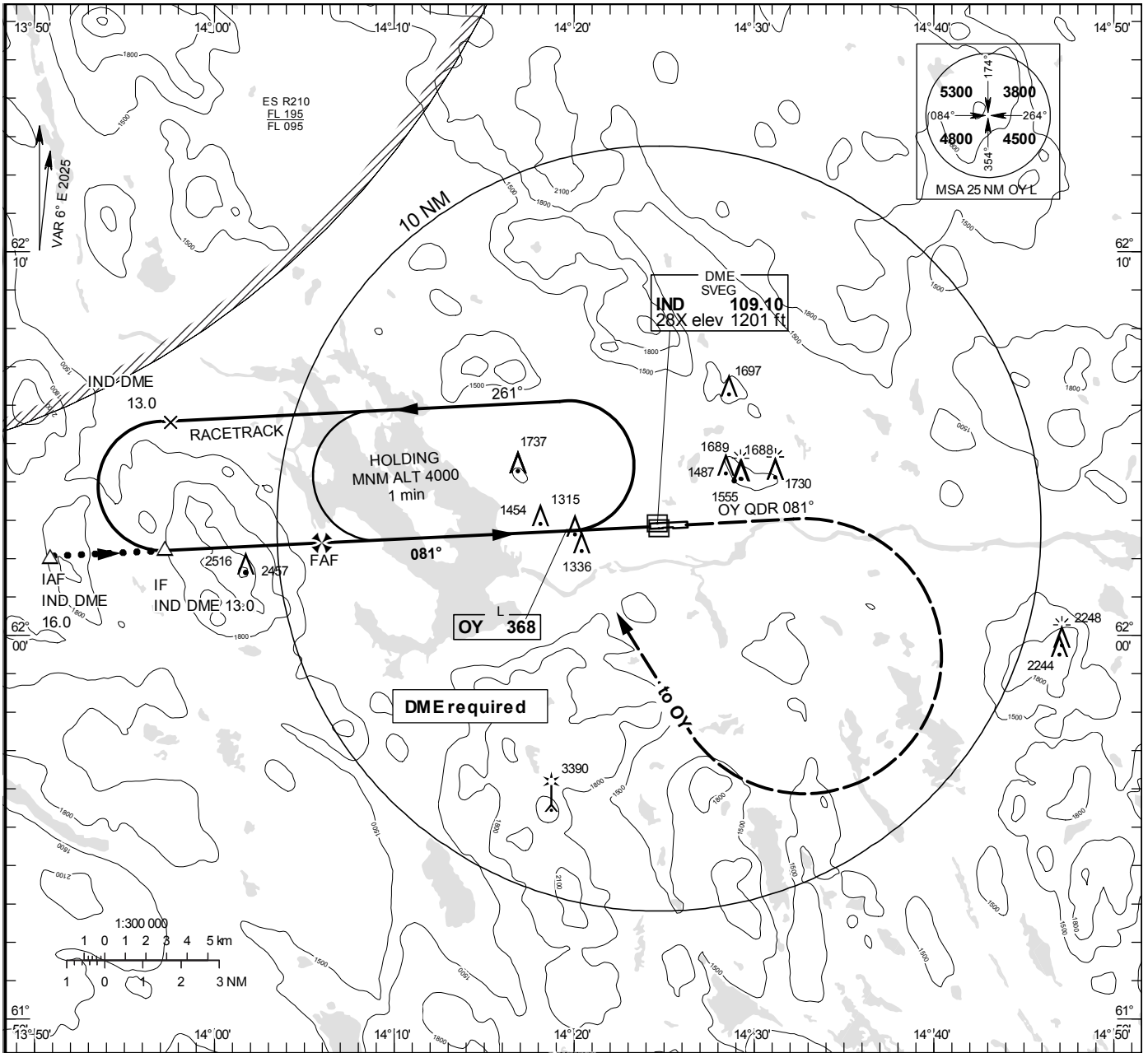
OCA (H)				Final approach	Distance FAF-MAPt 8.1 NM*							
Cat of ACFT	A	B	C	DME IND NM	8	7	6	5	4	3	2	
Straight-in Approach	CAT I	1328 (155)	1338 (165)	1350 (177)	ALT	3720	3400	3080	2770	2450	2130	1810
	LOC	1500 (330)			GS	kt	80	100	120	140	160	
		1850 (680)	2200 (1030)	2640 (1470)	Time	min:s	6:03	4:50	4:02	3:27	3:01	
		1790 (620)	2030 (860)	2140 (970)	Rate of descent	ft/min	425	530	635	745	850	

**INSTRUMENT  
APPROACH  
CHART – ICAO**

**THR ELEV 1172.7 ft, AD ELEV 1178 ft**  
 OCH are related to THR.  
 Circling OCH are related to AD ELEV.  
 BRG are MAG  
 ALT. HGT and ELEV in ft.

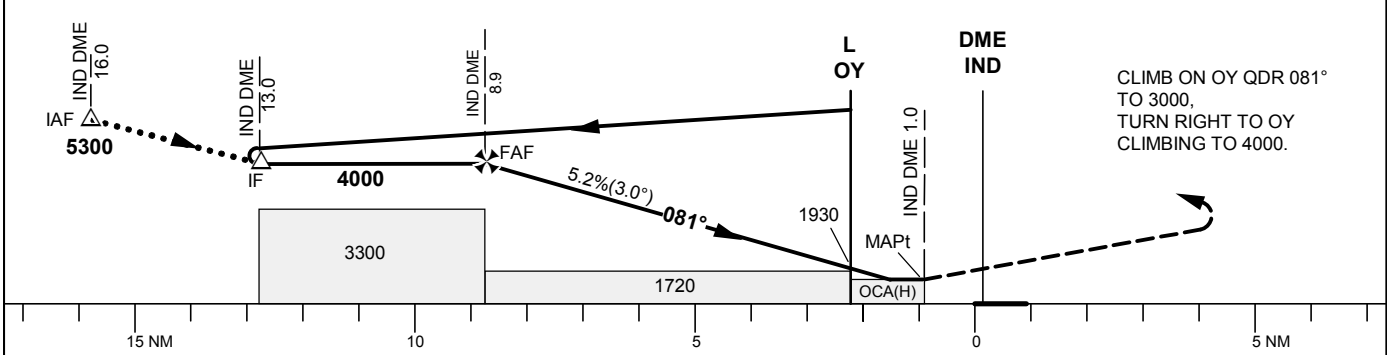
**SVEG INFORMATION 122.205**

**NDB RWY 09**



**TA 6000 ft AMSL**

\*Timing not authorized for defining the MAPt



OCA (H)			Final approach	Distance FAF-MAPt 7.9 NM*							
Cat of ACFT	A	B	C	DME IND NM	8	7	6	5	4	3	2
Straight-in Approach	1540 (370)			ALT	3720	3400	3080	2760	2440	2120	1810
Circling	1850 (680)	2200 (1030)	2640 (1470)	GS	kt	80	100	120	140	160	
Circling N RWY	1790 (620)	2030 (860)	2140 (970)	Time	min:s	5:55	4:44	3:56	3:23	2:57	
				Rate of descent	ft/min	425	530	635	745	850	



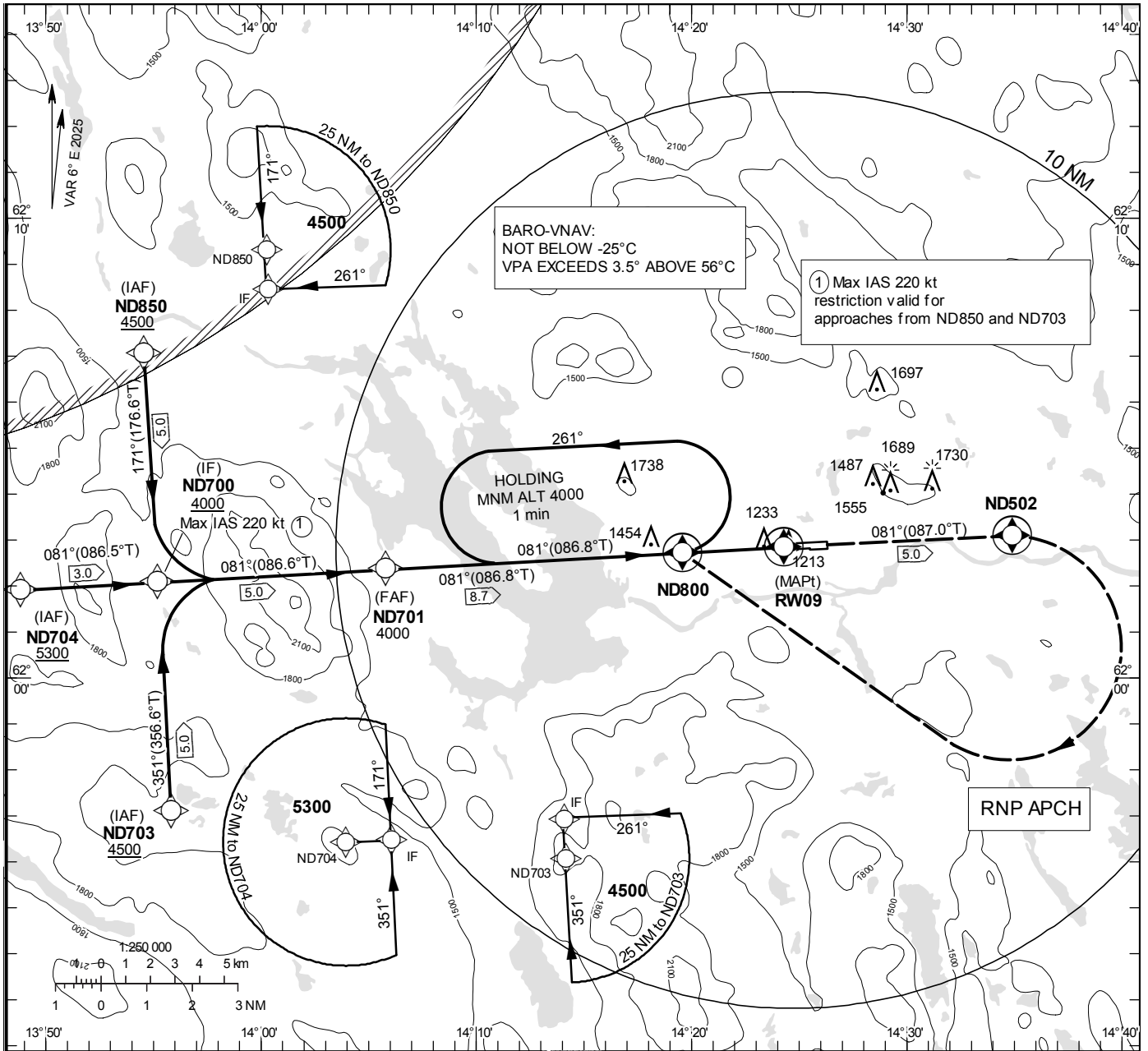
**INSTRUMENT  
APPROACH  
CHART – ICAO**

**THR ELEV 1172.7 ft, AD ELEV 1178 ft**  
 OCH are related to THR.  
 Circling OCH are related to AD ELEV.  
 BRG are MAG (True).  
 ALT, HGT and ELEV in ft.

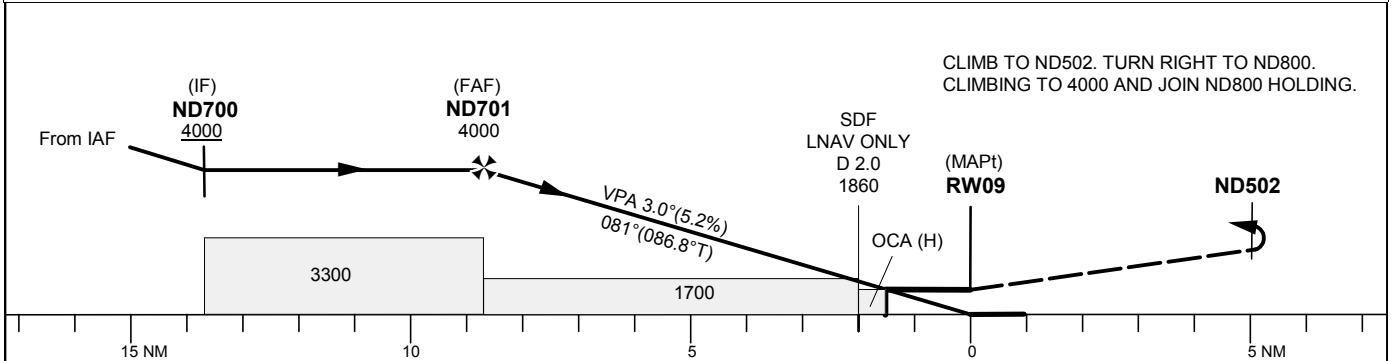
**SVEG INFORMATION** 122.205

**RNP RWY 09**

**EGNOS Ch 87862 E 09A**



TA 6000 ft AMSL RDH 50 ft



Cat of ACFT	OCA (H)			Final approach	Distance FAF-MAPt 8.7 NM						
	A	B	C	Dist to RW09 NM	8	7	6	5	4	3	2
LPV	1327 (154)	1337 (164)	1347 (174)	ALT	3770	3450	3130	2810	2500	2180	1860
LNAV/VNAV	1434 (262)	1446 (274)	1466 (294)	GS	kt	80	100	120	140	160	
LNAV	1610 (440)			Rate of descent	ft/min	425	530	635	745	850	
Circling	1850 (680)	2200 (1030)	2640 (1470)								
Circling N RWY	1790 (620)	2030 (860)	2140 (970)								

## RNP RWY 09 via ND850

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	ND850	-	-	-	-	+4500	-	-	-	RNP APCH
TF	ND700	-	171°(176.6°)	5.0	-	+4000	-220	-	-	RNP APCH

## RNP RWY 09 via ND704

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	ND704	-	-	-	-	+5300	-	-	-	RNP APCH
TF	ND700	-	081°(086.5°)	3.0	-	+4000	-	-	-	RNP APCH

## RNP RWY 09 via ND703

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	ND703	-	-	-	-	+4500	-	-	-	RNP APCH
TF	ND700	-	351°(356.6°)	5.0	-	+4000	-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	ND700	-	-	-	-	+4000	-	-	-	RNP APCH
TF	ND701	-	081°(086.6°)	5.0	-	+4000	-	-	-	RNP APCH
TF	RW09	Y	081°(086.8°)	8.7	-	@1223	-	-3.0/50	-	RNP APCH
TF	ND502	Y	081°(087.0°)	5.0	-	-	-	-	-	RNP APCH
DF	ND800	Y	-	-	R	+4000	-	-	-	RNP APCH

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
HM	ND800	Y	081°(086.8°)	-	L	+4000	-	-	-	RNP 1



## FAS Data Block

## RNP RWY 09

## Input data

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	ESND
Runway	09
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E09A
LTP/FTP Latitude	620250.4105N
LTP/FTP Longitude	0142417.2795E
LTP/FTP Ellipsoidal Height (metres)	390.6
FPAP Latitude	620253.2390N
Delta FPAP Latitude (seconds)	2.8285
FPAP Longitude	0142614.1905E
Delta FPAP Longitude (seconds)	116.9110
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 04 0E 13 05 09 00 00 01 39 30 05 55 B9 A0 1A FF 8E 2E 06 42 23 19 16 00 5E 91 03 F4 01 2C 01 64 00 C8 AF B7 25 FF AD
Calculated CRC Value	B725FFAD

## Required Additional Data

ICAO Code	ES
LTP/FTP Orthometric Height (metres)	357.4

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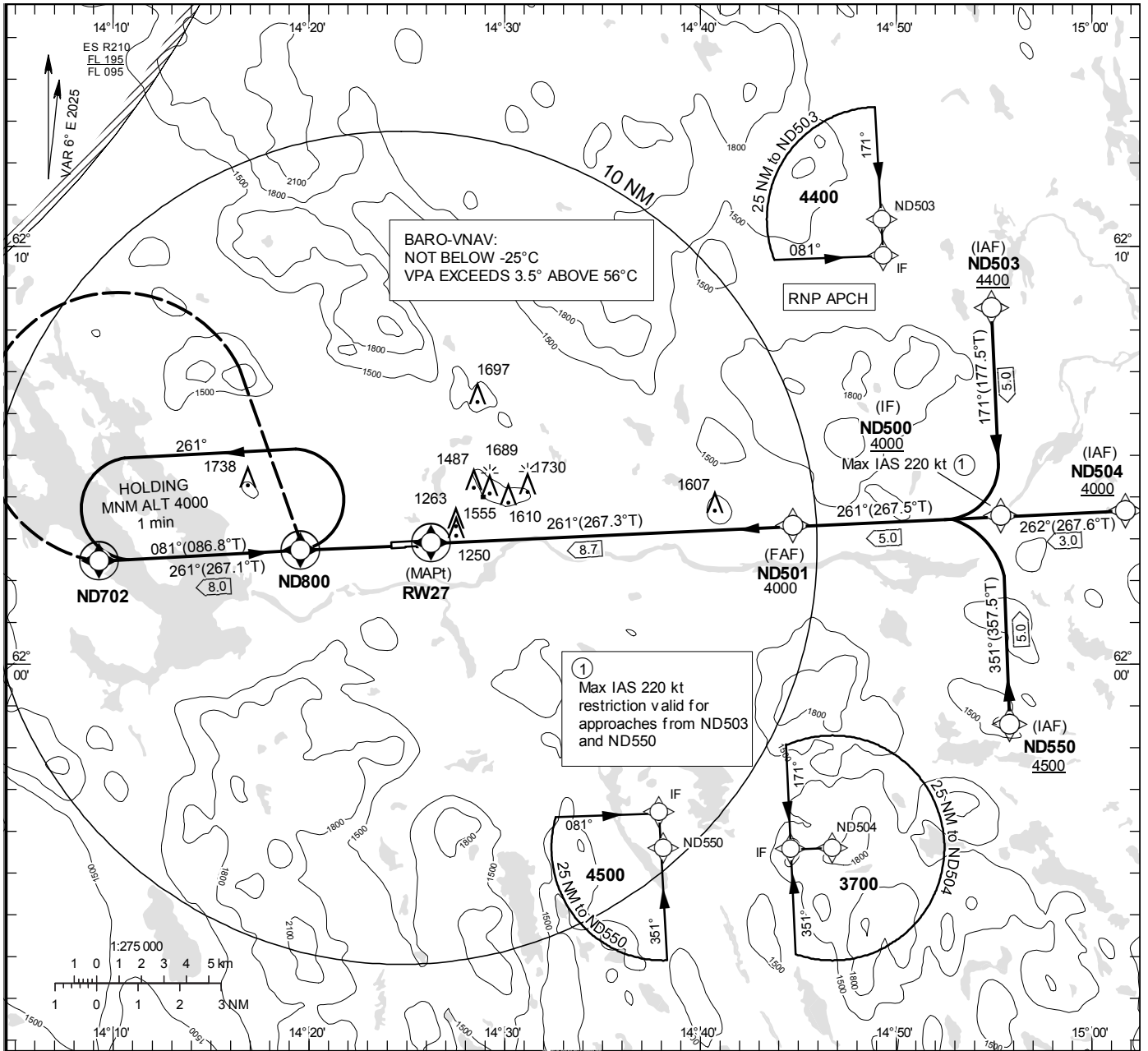
**INSTRUMENT  
APPROACH  
CHART – ICAO**

**THR ELEV 1177 ft, AD ELEV 1178 ft**  
 OCH are related to THR.  
 Circling OCH are related to AD ELEV.  
 BRG are MAG (True).  
 ALT. HGT and ELEV in ft.

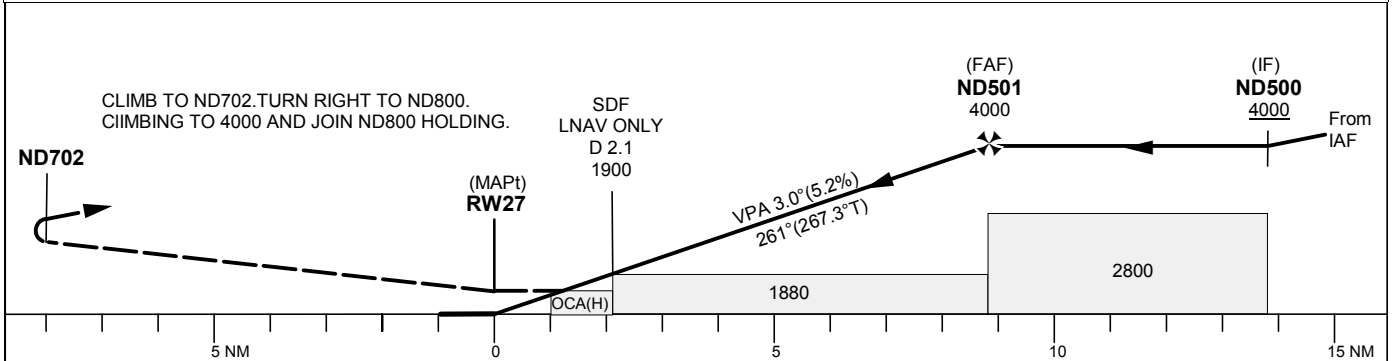
**SVEG INFORMATION** 122.205

**RNP RWY 27**

**EGNOS Ch 90027 E 27A**



**TA 6000 ft AMSL RDH 50 ft**



Cat of ACFT	OCA (H)			Final approach Dist to RWY27 NM	Distance FAF-MAPt 8.7 NM							
	A	B	C		2	3	4	5	6	7	8	
LPV	1380 (203)	1393 (216)	1401 (224)	ALT	1860	2180	2500	2820	3140	3460	3770	
LNAV/VNAV	1394 (217)	1406 (229)	1414 (237)	GS	kt	80	100	120	140	160		
LNAV	1670 (500)			Rate of descent	ft/min	425	530	635	745	850		
Circling	1850 (680)	2200 (1030)	2640 (1470)									
Circling N RWY	1790 (620)	2030 (860)	2140 (970)									

## RNP RWY 27 via ND550

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	ND550	-	-	-	-	+4500	-	-	-	RNP APCH
TF	ND500	-	351°(357.5°)	5.0	-	+4000	-220	-	-	RNP APCH

## RNP RWY 27 via ND504

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	ND504	-	-	-	-	-	-	-	-	RNP APCH
TF	ND500	-	262°(267.6°)	3.0	-	+4000	-	-	-	RNP APCH

## RNP RWY 27 via ND503

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
IF	ND503	-	-	-	-	+4400	-	-	-	RNP APCH
TF	ND500	-	171°(177.5°)	5.0	-	+4000	-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	ND500	-	-	-	-	+4000	-	-	-	RNP APCH
TF	ND501	-	261°(267.5°)	5.0	-	+4000	-	-	-	RNP APCH
TF	RW27	Y	261°(267.3°)	8.7	-	@1227	-	-3.0/50	-	RNP APCH
TF	ND702	Y	261°(267.1°)	8.0	-	-	-	-	-	RNP APCH
DF	ND800	Y	-	-	R	+4000	-	-	-	RNP APCH

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/RDH	Rec Navaid	Navigation Specification
HM	ND800	Y	081°(086.8°)	-	L	+4000	-	-	-	RNP 1

## FAS Data Block

## RNP RWY 27

## Input data

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	ESND
Runway	27
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E27A
LTP/FTP Latitude	620253.2390N
LTP/FTP Longitude	0142614.1905E
LTP/FTP Ellipsoidal Height (metres)	391.8
FPAP Latitude	620250.4105N
Delta FPAP Latitude (seconds)	-2.8285
FPAP Longitude	0142417.2795E
Delta FPAP Longitude (seconds)	-116.9110
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)	50.0

## Output data

Data Block	10 04 0E 13 05 1B 00 00 01 37 32 05 6E CF A0 1A 5D 20 32 06 4E 23 E7 E9 FF A2 6E FC F4 01 2C 01 64 00 C8 FA 73 B7 53 6B
Calculated CRC Value	73B7536B

## Required Additional Data

ICAO Code	ES
LTP/FTP Orthometric Height (metres)	358.7

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**VISUAL APPROACH CHART - ICAO**

1:250000  
1 0 1 2 3 4 5 km  
1 0 1 2 3 NM

**AD ELEV 1178 FEET**

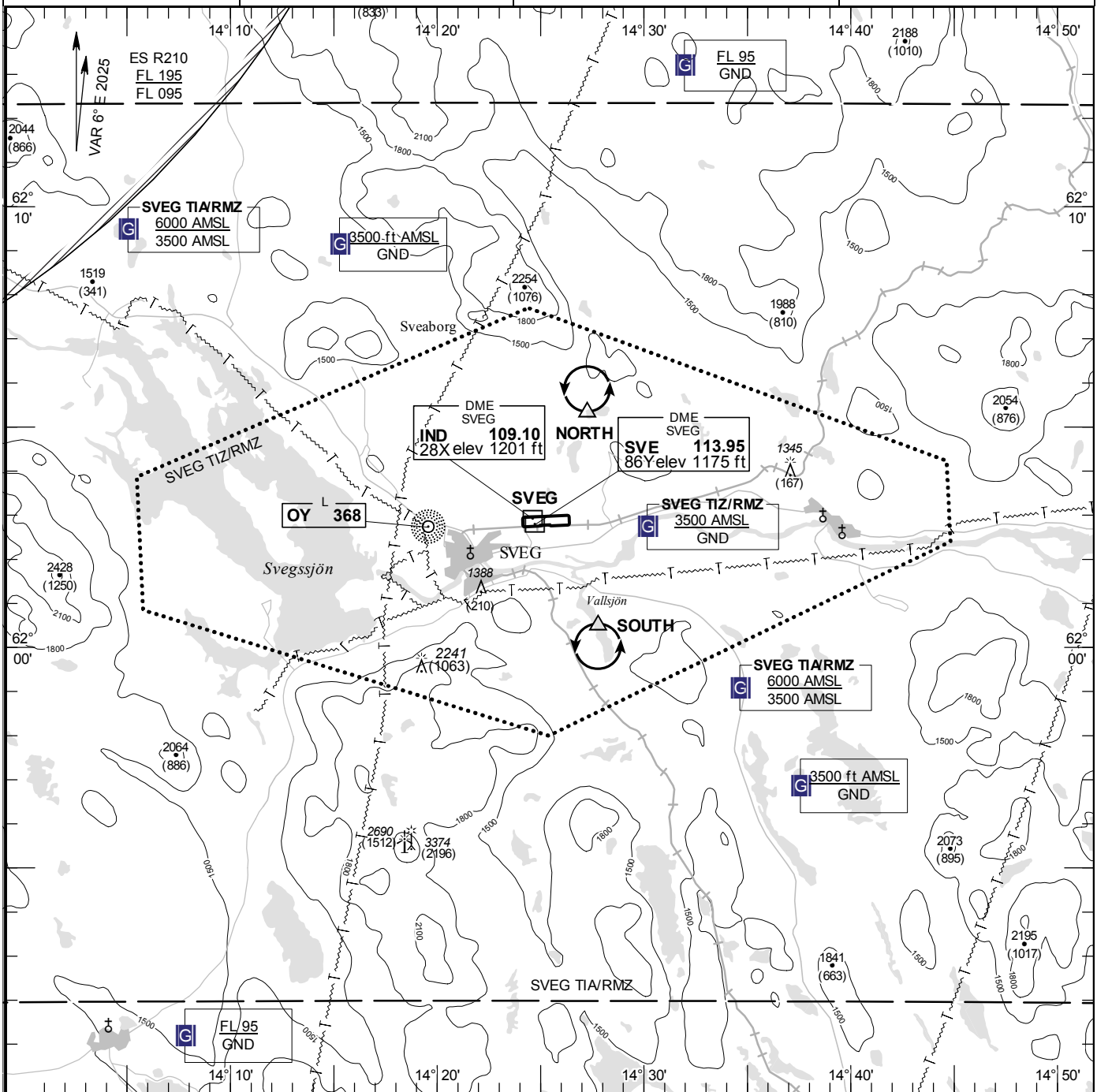
ELEV and ALT in ft  
HGT in ft above AD ELEV

**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 Vallsjön, south of point 620029N 0142746E





**ESST 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 16/34: Designator, THR, CL and edges are day marked. RTHL, REDL, RENL.<br>TWY A: CL, HLDG day marked, edge LGT, RGL.<br>B: CL, HLDG day marked, edge LGT, RGL. |
| 3. | Stop bars   | -  |
| 4. | Remarks   | -  |

## ESST 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
ESST1	Vegetation	600857.4N 0125950.4E	400 / -	-	-
ESST2	Electrical exit light	600856.3N 0125959.8E	405 / -	-	-
ESST3	Navaid	600855.3N 0125955.0E	411 / -	-	-
ESST4	Tree	600852.0N 0130007.7E	418 / -	-	-
ESST5	Electrical exit light	600848.2N 0125951.5E	419 / -	-	-
ESST6	Electrical exit light	600846.6N 0125952.4E	423 / -	-	-
ESST7	Electrical exit light	600846.5N 0125957.9E	427 / -	-	-
ESST8	Electrical exit light	600846.1N 0125957.3E	428 / -	-	-
ESST9	Tree	600841.3N 0130006.8E	439 / -	-	-
ESST10	Tree	600839.9N 0130002.9E	441 / -	-	-
ESST11	Tree	600839.2N 0125959.6E	445 / -	-	-
ESST12	Tree	600836.7N 0125959.1E	453 / -	-	-
ESST13	Tree	600834.1N 0130002.7E	457 / -	-	-
ESST14	Tree	600833.5N 0130001.3E	468 / -	-	-
ESST15	Spire	600815.0N 0130049.1E	519 / -	-	-
ESST16	Tree	601007.8N 0125843.4E	401 / -	-	-
ESST17	Tree	601008.0N 0125843.9E	402 / -	-	-
ESST18	Tree	601056.4N 0125755.9E	490 / -	-	-
ESST19	Tree	601102.8N 0125754.4E	505 / -	-	-
ESST20	Tree	601103.5N 0125752.3E	507 / -	-	-
ESST21	Tree	601204.9N 0125801.6E	582 / -	-	-
ESST22	Tree	601211.5N 0125623.6E	736 / -	-	-
ESST23	Tree	601212.9N 0125624.3E	763 / -	-	-
ESST24	Tree	601214.5N 0125622.9E	769 / -	-	-
ESST25	Tree	601234.9N 0125603.1E	827 / -	-	-
ESST26	Tree	601237.2N 0125604.1E	842 / -	-	-
ESST27	Tree	601241.5N 0125621.5E	871 / -	-	-
ESST28	Tower	601241.1N 0125610.2E	900 / -	-	-
ESST29	Tree	601244.1N 0125617.4E	946 / -	-	-
ESST30	Tree	601257.5N 0125616.3E	966 / -	-	-
ESST31	Tree	601312.8N 0125633.5E	993 / -	-	-

ESST32	Tree	601323.2N 0125619.0E	1047 / -	-	-
ESST33	Tree	601331.1N 0125558.1E	1074 / -	-	-
ESST34	Tree	601339.1N 0125558.6E	1134 / -	-	-

## In Area 3

OBST ID/Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
Not available					

## ESST 2.11 METEOROLOGICAL INFORMATION PROVIDED

- |   |   |
|---|---|
| 1. Associated MET Office  | STOCKHOLM/Arlanda   |
| 2. Hours of service<br>MET Office outside hours                           | H24   |
| 3. Office responsible for TAF preparation<br>Periods of validity          | TAF not produced  |
| 4. Type of landing forecast<br>Interval of issuance                       | Not issued  |
| 5. Briefing/consultation provided   | FPC H24, +46 (0)8 797 63 40, <a href="http://www.lfv.se/fpc">www.lfv.se/fpc</a> |
| 6. Flight documentation<br>Language(s) used                               | METAR, SIGMET, Upper air winds<br>Swedish/English                               |
| 7. Charts and other information available for<br>briefing or consultation | SWC, WC, Nordic SIGWX Chart, Low level forecast                                 |
| 8. Supplementary equipment available for<br>providing information         | -   |
| 9. ATS units provided with information                                    | TORSBY AFIS   |
| 10. Additional information (limitation of service,<br>etc.)               | Flight planning room available  |

## ESST 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
16	157.70° GEO 152° MAG	1590 x 30	PCN 37 F/C/W/T ASPH	600950.31N 0125909.75E  GUND 107 ft	THR 350 ft
34	337.71° GEO 332° MAG	1590 x 30	PCN 37 F/C/W/T ASPH	600902.77N 0125948.85E  GUND 106 ft	THR 394 ft

Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
16 See ESST AOC	-	-	1770 x 280	-	See AD chart for strip limitation.
34 See ESST AOC	-	-	1770 x 280	-	See AD chart for strip limitation.

## ESST 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
16	1590	1590	1590	1590	-
34	1590	1590	1590	1590	-

## ESST 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 CAT I 900 m LIH	Green	PAPI Left/3.50° (16.4 ft)	-	-	1590/60 m White Caution zone 600 m yellow LIL/LIH	Red	-
34	SALS 420 m LIH	Green	PAPI Left/3.50° (16.4 ft)	-	-	1590/60 m White Caution zone 600 m yellow LIL/LIH	Red	-

10 Remarks: -
---------------

**ESST 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY**

- |    |  |   |
|----|--|---|
| 1. | ABN/IBN location, characteristics and hours of operation | -   |
| 2. | LDI location and LGT<br>Anemometer location and LGT      | -<br>At RWY ends, lighted. 15 m north DME NST, lighted. |
| 3. | TWY edge and centre line lighting                        | Edge: TWY A, B<br><br>CL: -                             |
| 4. | Secondary power supply/switch-over time                  | Available/4.5 sec                                       |
| 5. | Remarks  | -   |

**ESST 2.16 HELICOPTER LANDING AREA**

RWY 16/34 to be used

**ESST 2.17 ATS AIRSPACE**

- |    |                                   |   |   |
|----|-----------------------------------|---|---|
| 1. | Designation and lateral limits    | TORSBY TIZ/RMZ  | 601836N 0125436E - 601047N 0130416E -<br>600308N 0130822E - 600154N 0130215E -<br>600843N 0125414E - 601741N 0125008E -<br>601836N 0125436E |
| 2. | Vertical limits                   | TORSBY TIZ/RMZ  | 2600 ft AMSL<br><hr style="width: 50px; margin: 0 auto;"/> GND  |
| 3. | Airspace classification           | G   |   |
| 4. | ATS unit call sign<br>Language(s) | TORSBY INFORMATION<br>Swedish/English   |   |
| 5. | Transition altitude               | 5000 ft AMSL  |   |
| 6. | Remarks                           | Continuous two-way radiocommunication required in TIZ/RMZ.<br>TIZ/RMZ established during hours of AFIS. |   |

**ESST 2.18 ATS COMMUNICATION FACILITIES**

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
AFIS	TORSBY INFORMATION	122.055	HX	-
		121.500	HX	-

## ESST 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 (6° E 2025)	NST	108.70 MHz	HO	600855.3N 0125955.0E		250 m beyond THR 34
L 16	TH	402 kHz	H24	601546.7N 0125401.5E		Range 15 NM
LOC 34 (6° E 2025)	ST	110.90 MHz	HO	601001.7N 0125900.4E		380 m beyond THR 16 Positive guidance only between ±10° from approach line
L 34	TY	384 kHz	H24	600555.0N 0130216.7E		Range 25 NM
DME	NST	108.70 MHz	H24	600927.9N 0125933.4E	400 ft	DME channel 24X

## ESST 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. Skol- och övningsflygning med upprepade start och landningar ej tillåtet mellan 2100-0500 (2000-0400).

2. Då ATS är stängt ska visuell kontroll av start- och landningsbana genomföras innan start med luftfartyg för att säkerställa att ingen fordonstrafik eller verksamhet pågår inom manöverområdet.

Inför landning ska en s.k. "visuell överflygning" genomföras, för att säkerställa att ingen fordonstrafik eller annan verksamhet pågår inom manöverområdet.

## LOCAL TRAFFIC REGULATIONS

1. School and training flights with repeated TKOF and LDG not permitted between 2100-0500 (2000-0400).

2. When ATS is closed, a visual check of the runway shall be conducted before take off to ensure that there are no other activities or vehicles occupying the movement area.

Before landing, a "visual fly over check" shall be conducted to ensure that there are no other activities or vehicles occupying the movement area.

## ESST 2.21 MINSKNING AV BULLERSTÖRNING

Start och landning över Torsby samhälle ska undvikas om det kan ske utan flygsäkerhetspåverkan.

## NOISE ABATEMENT PROCEDURES

Take off and landing over Torsby community should be avoided if possible without flight safety impact.

## ESST 2.22 FLYGPROCEDURER

Startprocedurer, omnidirectional

## FLIGHT PROCEDURES

Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
16	Climb straight ahead to MNM turning ALT 1500 ft AMSL. Continue climb to appropriate MSA.	CIO exist	-	-
34	Climb straight ahead with MNM 290 ft/NM (4.7%) to MNM turning ALT 1800 ft AMSL. Continue climb to appropriate MSA.	Pylon CIO exist	1905	354°/15730

Lägsta RVR för avgående trafik är 550 m.

Minimum RVR for departing traffic is 550 m.

**ESST 2.23 ÖVRIG INFORMATION**

1. Omfattande segelflygverksamhet JUN – JUL
2. Störande belysning från sportfält 1100 m S om THR RWY 34.
3. Nya flygoperatörer vid Torsby flygplats med luftfartyg tillhörande referenskodsiffran 3 skall ha tagit del av den aktuella hindersituationen och övriga avsteg från referenskod 3C innan flygplatsen trafikeras. Dokumentation tillhandahålls av flygplatsen. Flygoperatören skall innan trafiken påbörjas redovisa för flygplatsen att de kan operera på ett säkert sätt.
4. Undantag från krav i CS ADR-DSN för flygplatsreferenskod 3C:
  - Delar av stråket uppfyller inte krav på stråkbredd.
  - Tvärlutningen på den del av stråket som är mellan banan och den östra hangarplattan uppfyller inte lutningskravet på max 2.5% på den graderade delen.
  - Det finns fasta föremål på stråket, vilka avviker från kravet.
  - Avstånd från väntplats för TWY B till banans centrumlinje är 60 m, vilket avviker från kravet på 75 m.
  - Det finns hinder i den koniska ytan, horisontella ytan, inflygningsytan, start- och stigyten, övergångsytorerna och stråkytorerna.

**ADDITIONAL INFORMATION**

1. Extensive gliding activity JUN – JUL
2. Disturbing lights from sports ground located 1100 m S of THR RWY 34.
3. New operators at Torsby AD with aircraft belonging to aerodrome reference code number 3 shall review the obstacle situation and other deviations from reference code 3C. Documentation of the deviations is available from the aerodrome administration. Before the traffic commences, the operator must present to the aerodrome that they can operate safely.
4. Exemptions from requirements in CS ADR-DSN for aerodrome reference code 3C:
  - Parts of the runway strip does not fulfil the requirement for width of runway strip.
  - The transverse slope on the strip between the runway and the hangar apron east of the runway does not fulfil the requirement of max 2.5% on the graded part.
  - There are objects on the runway strip, which do not fulfil the requirement.
  - Distance between the runway holding position on TWY B and the runway centre line is 60 m, the requirement is 75 m.
  - There are obstacles penetrating the conical surface, horizontal surface, approach surface, take-off- and climb surface, transitional surfaces and the strip surface.

**ESST 2.24 TILLHÖRANDE KARTOR**

AD chart	
AOC	RWY 16/34
List of waypoints and significant points	
IAC	LOC RWY 16
IAC	NDB RWY 16
IAC	LOC RWY 34
IAC	NDB RWY 34
IAC	RNP RWY 16
IAC	RNP RWY 34
VAC	

**RELATED CHARTS**

ESST 2-1
ESST-3-1
ESST 4-3
ESST 5-1
ESST 5-2
ESST 5-3
ESST 5-4
ESST 5-5
ESST 5-9
ESST 6-1

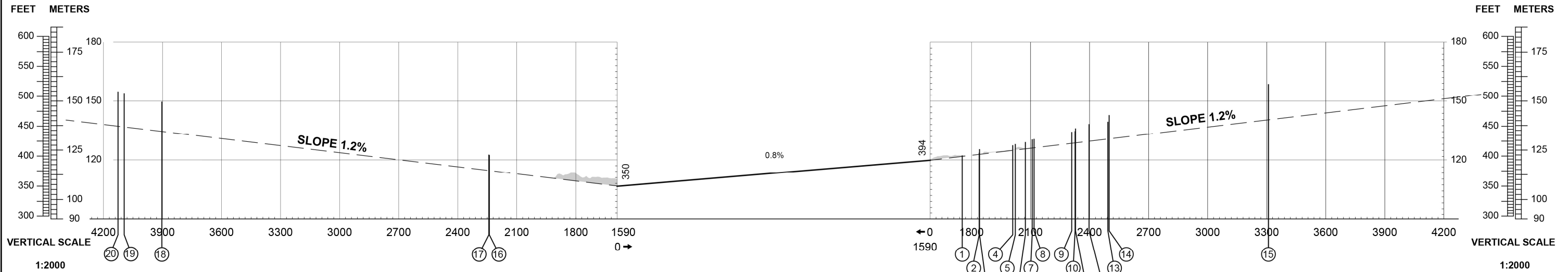




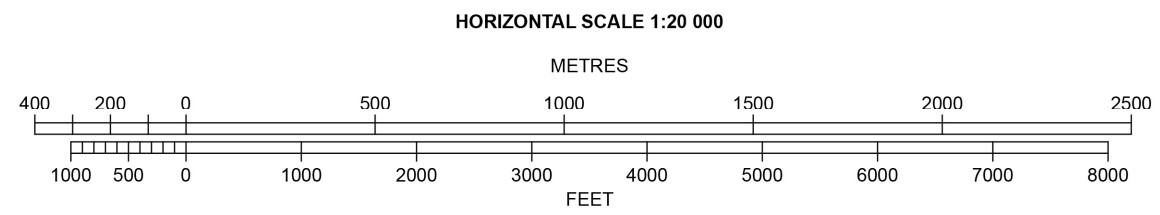
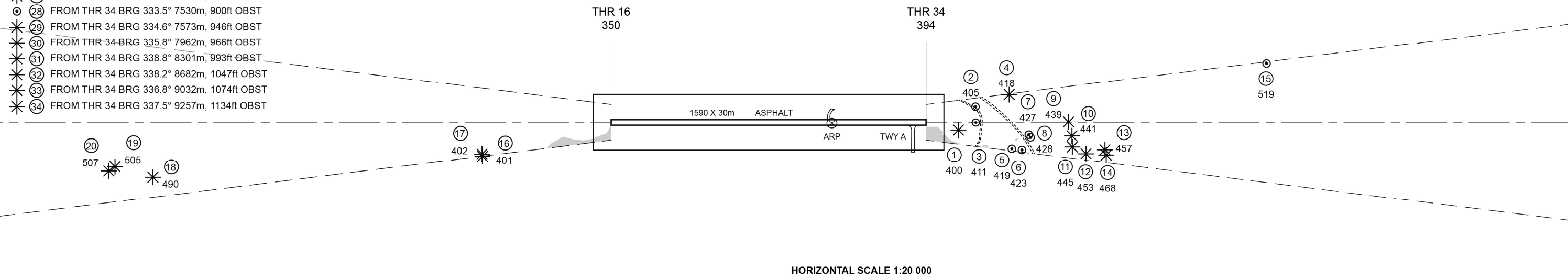
**AERODROME ELEVATION 394 FEET**  
MAGNETIC VARIATION 6° E 2025

**RUNWAY BEARINGS**  
16 = GEO 157.70°; MAG 152°  
34 = GEO 337.71°; MAG 332°

RWY 16	DECLARED DISTANCES	RWY 34
1590	TAKE-OFF RUN AVAILABLE	1590
1590	TAKE-OFF DISTANCE AVAILABLE	1590
1590	ACCELERATE STOP DISTANCE AVAILABLE	1590
1590	LANDING DISTANCE AVAILABLE	1590



- FROM THR 34 BRG 331°-334° 5890-11590m, TERRAIN
- \* (21) FROM THR 34 BRG 343.7° 5840m, 582ft OBST
- \* (22) FROM THR 34 BRG 331.6° 6605m, 736ft OBST
- \* (23) FROM THR 34 BRG 331.8° 6639m, 763ft OBST
- \* (24) FROM THR 34 BRG 331.9° 6693m, 769ft OBST
- \* (25) FROM THR 34 BRG 332.1° 7392m, 827ft OBST
- \* (26) FROM THR 34 BRG 332.2° 7452m, 842ft OBST
- \* (27) FROM THR 34 BRG 334.8° 7475m, 871ft OBST
- o (28) FROM THR 34 BRG 333.5° 7530m, 900ft OBST
- \* (29) FROM THR 34 BRG 334.6° 7573m, 946ft OBST
- \* (30) FROM THR 34 BRG 335.8° 7962m, 966ft OBST
- \* (31) FROM THR 34 BRG 338.8° 8301m, 993ft OBST
- \* (32) FROM THR 34 BRG 338.2° 8682m, 1047ft OBST
- \* (33) FROM THR 34 BRG 336.8° 9032m, 1074ft OBST
- \* (34) FROM THR 34 BRG 337.5° 9257m, 1134ft OBST



LEGEND	
IDENTIFICATION NUMBER	(1)
POLE, TOWER, SPIRE, ANTENNA, ETC.	o
TREE OR SHRUB	*
TERRAIN PENETRATING OBSTACLE PLANE	▲

ORDER OF ACCURACY  
HORIZONTAL 5 m  
VERTICAL 1 ft



**AD 2 AERODROMES****ESGT 2.1 AERODROME LOCATION INDICATOR AND NAME****ESGT – TROLLHÄTTAN-VÄNERSBORG****ESGT 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

- |    |  |  |
|----|--|--|
| 1. | ARP coordinates and site at AD               | 581905N 0122042E RWY centre point  |
| 2. | Direction and distance from (city)           | NE 2.9 NM from Trollhättan, S 3.8 NM from Vänersborg   |
| 3. | Elevation/Reference temperature              | 137 ft/+18.5°C   |
| 4. | Geoid undulation at AD ELEV PSN              | 114 ft   |
| 5. | MAG VAR/Annual change                        | 5° E 2025/+0.2 increasing  |
| 6. | Administration, address, telephone, fax, AFS | Trollhättan flygplats<br>SE-461 93 Trollhättan<br>TEL: +46 (0)520 825 00<br>FAX: +46 (0)520 838 17<br>E-mail: info@fyrstadsflyget.se<br>AFS: ESGTZTX<br>Website: www.fyrstadsflyget.se |
| 7. | Types of traffic permitted (IFR/VFR)         | IFR/VFR. Max RWY ref code 3C   |
| 8. | Remarks                                      | -  |

**ESGT 2.3 OPERATIONAL HOURS**

- |     |   |   |
|-----|---|---|
| 1.  | AD Administration<br>AD Operating hours | As ATS<br>As ATS                            |
| 2.  | Customs and immigration                 | MON-SUN 0600-2000 (0500-1900)               |
| 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                                 | Increased charges outside TWR HR of OPS     |

## ESGT 2.4 HANDLING SERVICES AND FACILITIES

1.	Cargo-handling facilities	Available, forklift
2.	Fuel/oil types	Fuel Jet A1, 91UL Oil -
3.	Fuelling facilities/discharge capacity	Jet A1: 15,000 l in fuelling truck, 100,000 l in store 91UL: 20,000 l
4.	De-icing facilities	Available, Type I and Type II
5.	Hangar space for visiting ACFT	-
6.	Repair facilities for visiting ACFT	Available
7.	Remarks	Fuel supplier: Fyrstads Flygplats AB (AD Operator) Battery charger: Pipistrel skycharge M20 Portable charger Fuel can only be paid by VISA or Mastercard credit cards or via invoice.

## ESGT 2.5 PASSENGER FACILITIES

1.	Hotels	In Trollhättan and Vänersborg
2.	Restaurants	In Trollhättan and Vänersborg
3.	Transportation	Taxis
4.	Medical facilities	In Trollhättan and Vänersborg
5.	Bank and Post Office	In Trollhättan and Vänersborg
6.	Tourist Office	In Trollhättan and Vänersborg
7.	Remarks	-

## ESGT 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	CAT 4 for scheduled traffic requiring, CAT 6 O/R
2.	Rescue equipment	By arrangement, municipal rescue service
3.	Capability for removal of disabled aircraft	Contact +46(0)520 825 00 for arrangements
4.	Remarks	-

## ESGT 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	Sweepers/blowers
2.	Clearance priorities	RWY, TWY, Apron
3.	Remarks	Not cleared outside operational hours. RWY 15/33 de-iced with SAND.

## ESNZ 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	114.67° GEO 110° MAG	2500 x 45	PCN 55 F/B/X/T ASPH	631155.71N 0142845.98E  GUND 104.2 ft	THR 1194.3 ft TDZ 1194.3 ft
30	294.71° GEO 290° MAG	2500 x 45	PCN 55 F/B/X/T ASPH	631121.99N 0143128.43E  GUND 105 ft	THR 1233 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 ESNZ AOC	-	-	2710 x 280	90 x 90
30	See ESNZ AOC	-	-	2710 x 280	90 x 90

Designations RWY NR	Location/ description of arresting system	OFZ (Yes/No)	Remarks
1	12	13	14
12	-	Yes	Transverse slope. RWY non cambered, single crossfall from right to left.
30	-	No	Transverse slope. RWY non cambered, single crossfall from left to right.

## ESNZ 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
12	2500	2500	2500	2500	-
30	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
12	TWY G	1907	1907	1907	-	-

## ESNZ 2.14 APPROACH AND RUNWAY LIGHTING

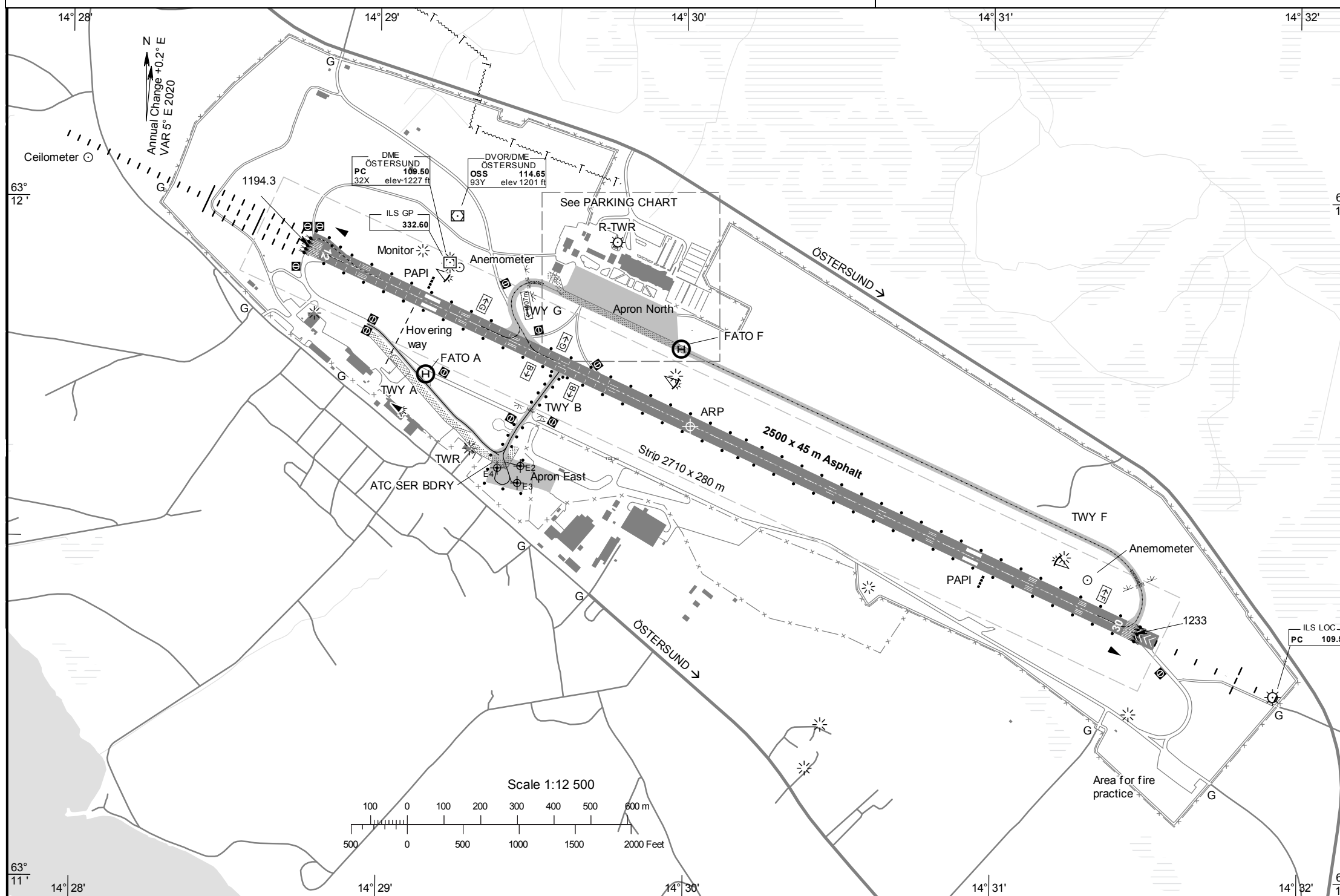
RWY Designator	APCH LGT Type, LEN INTST	THR LGT Colour WBAR	VASIS (MEHT)	TDZ LGT LEN	RWY Centre Line LGT LEN, Spacing Colour INTST	RWY Edge LGT LEN, Spacing Colour INTST	RWY End LGT Colour WBAR	SWY LGT LEN, Colour
1	2	3	4	5	6	7	8	9
12	Barrette CL CAT III 720 m LIH	Green	PAPI Left/3.00° (53.8 ft)	893 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	-
30	Barrette CL SALS 420 m LIH	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	-
10 Remarks: RWY 12: LED lights on RTHL, REDL, RENL, RCLL, RTZL and APCH RWY 30: LED lights on RTHL, REDL, RENL, RCLL and APCH								

## ESNZ 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

- |    |  |   |
|----|--|---|
| 1. | ABN/IBN location, characteristics and hours of operation | Not available   |
| 2. | LDI location and LGT<br>Anemometer location and LGT      | Unlighted windsocks at RWY ends.<br>Lighted windsock southwest of FATO A.<br>At RWY ends, unlighted |
| 3. | TWY edge and centre line lighting                        | Edge: TWY B<br><br>CL: TWY F, G<br><br>LED lights on TWY F and G centre line lights                 |
| 4. | Secondary power supply/switch-over time                  | Available/1 sec   |
| 5. | Remarks  | -   |

## ESNZ 2.16 HELICOPTER LANDING AREA

FATO A established on TWY A. Approach- and departure direction parallel to RWY 12/30.  
FATO F established on TWY F east of apron North. Approach- and departure direction parallel to RWY 12/30.  
FATO A and F for daylight and VMC operations. During IMC or darkness RWY 12/30 to be used.  
Airtaxiing to parking by directive from TWR.



ARP 631140N 0143001E

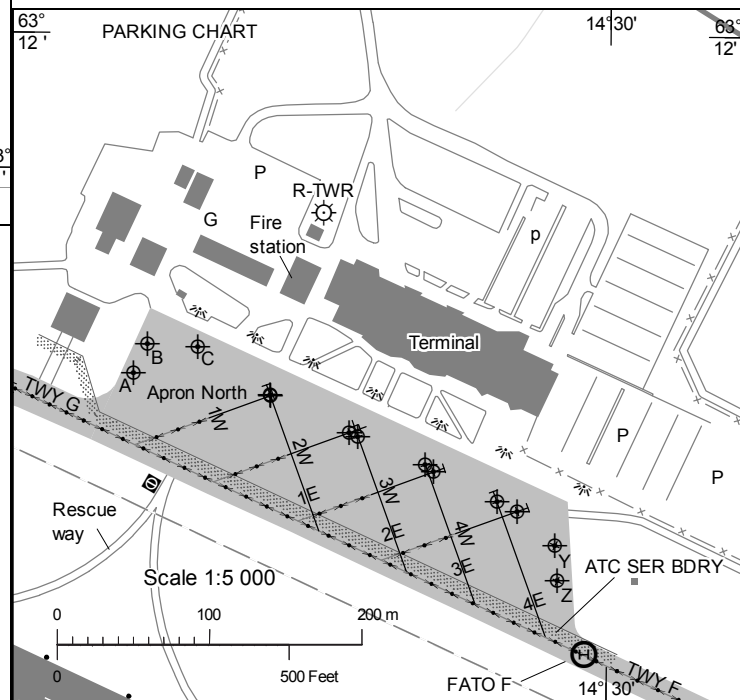
AD ELEV 1233 FEET

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	

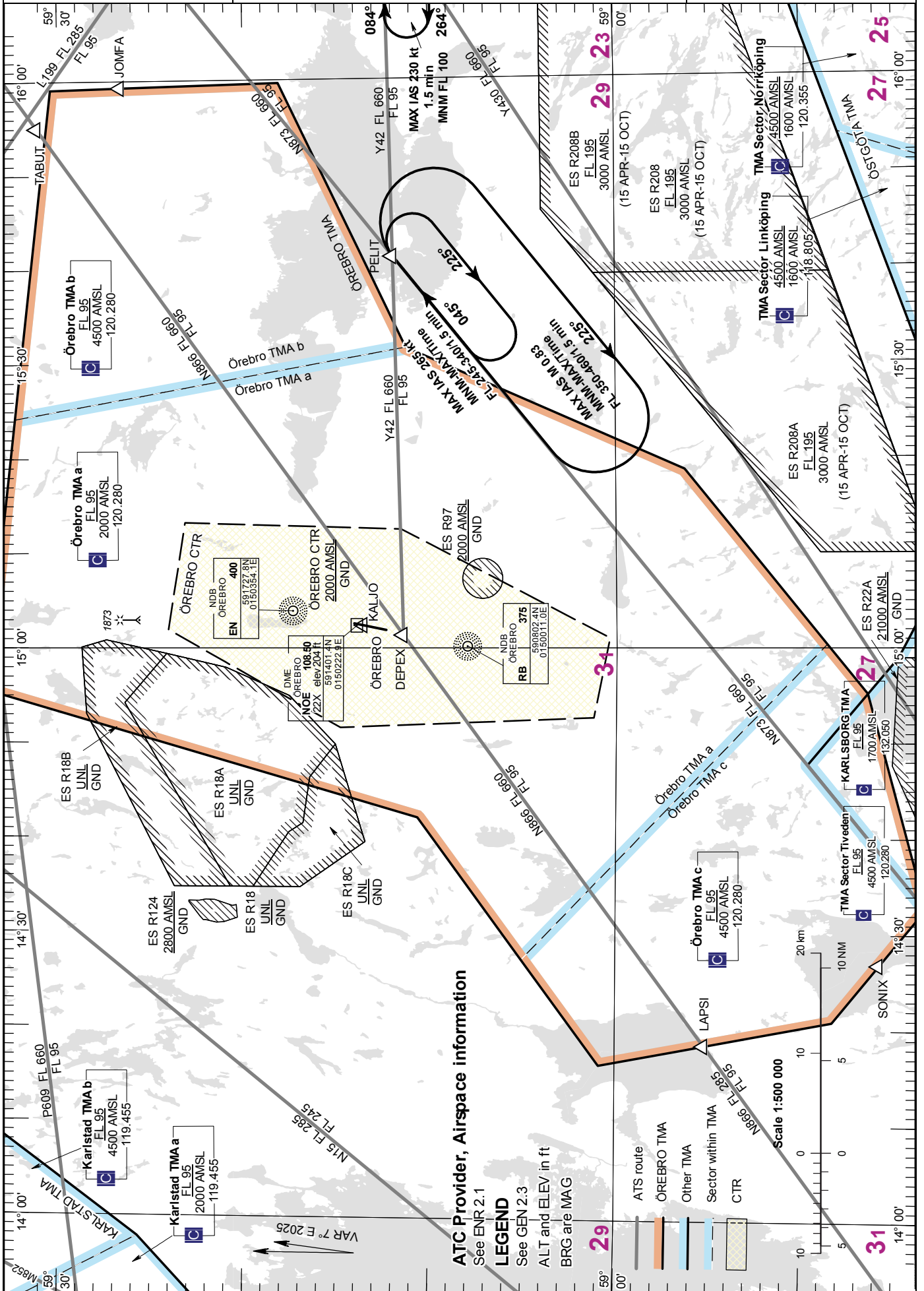


RWY NR	TRUE & MAG BRG	THR PSN Geoid undulation	Bearing Strength	THR ELEV and highest ELEV of TDZ of precision APCH RWY	Declared distances				Approach and runway lighting					
					TORA	TODA	ASDA	LDA	APCH	THR TRID TDZ	VASIS (MEHT)	RWY CL	Edge	End
12	114.67° GEO 110° MAG	631155.71N 0142845.98E GUND 104.2 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

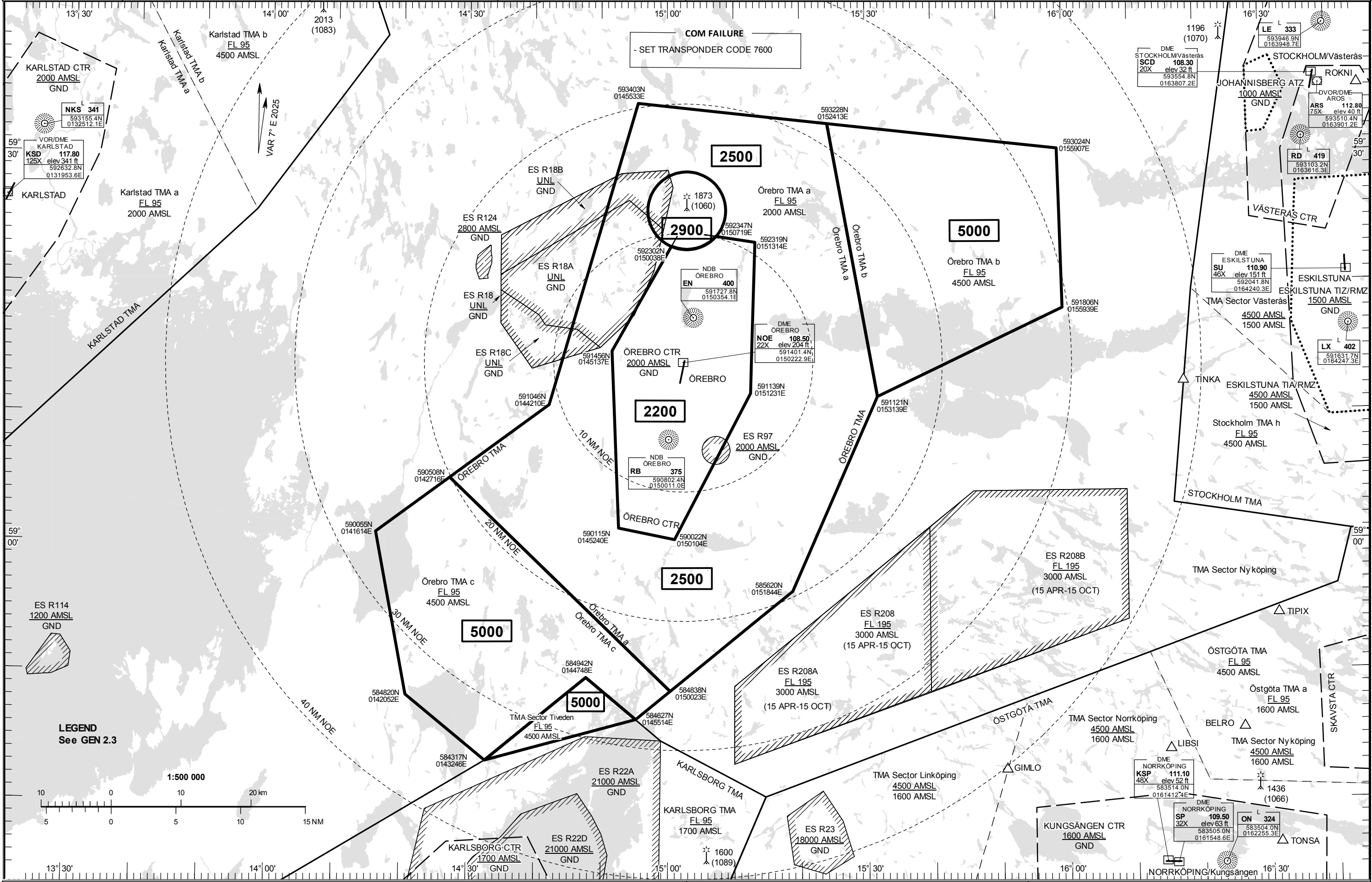
ALT and ELEV in ft

BRG are MAG

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

Scale 1:500 000





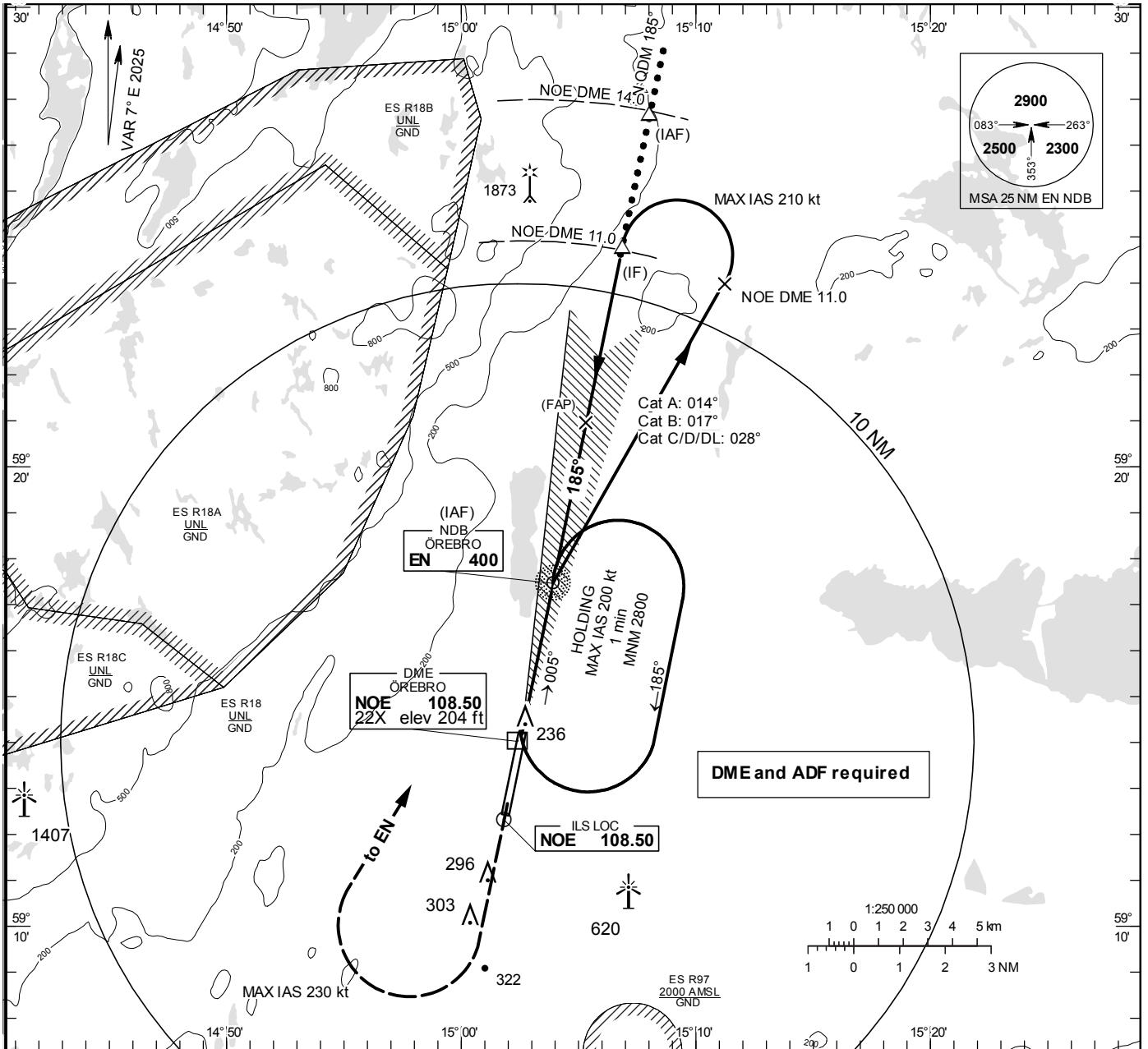


**INSTRUMENT  
APPROACH  
CHART – ICAO**

**THR ELEV 191.1 ft, AD ELEV 192 ft**  
 OCH are related to THR.  
 Circling OCH are related to AD ELEV.  
 BRG are MAG  
 ALT. HGT and ELEV in ft.

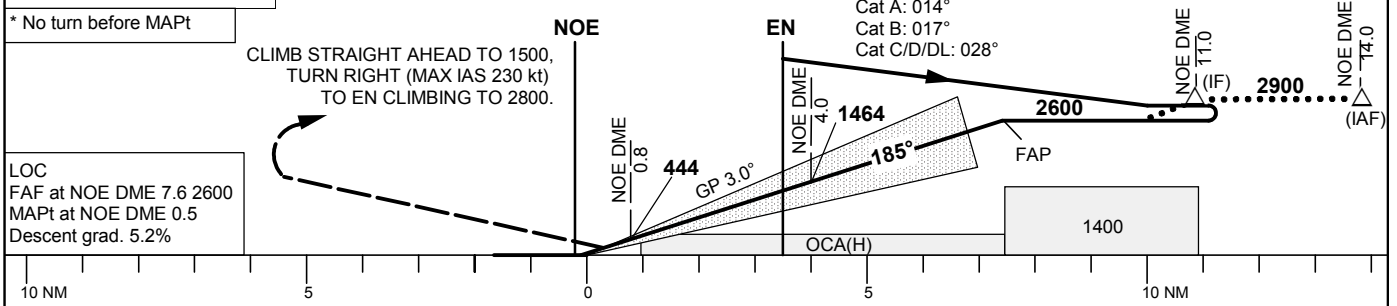
ÖREBRO TOWER 120.280

ILS y or LOC y RWY 19



TA 5000 ft AMSL RDH 54.1 ft \*Timing not authorized for defining the MAPt

OM replaced by NOE DME 4.0 MAX SPEED within base turn 210 kt IAS MAX SPEED within missed approach turn 230 kt IAS  
 MM replaced by NOE DME 0.8



OCA (H)						Final approach	Distance FAF-MAPt 7.1 NM*						
Cat of ACFT	A	B	C	D	D <sub>L</sub>	NOE DME NM	2	3	4	5	6	7	
Straight-in Approach	Cat I	354 (162)	361 (169)	373 (181)	383 (191)	387 (195)	ALT	820	1140	1460	1780	2100	2420
	LOC	570 (380)					GS	kt	80	100	120	140	160
Circling	600 (410)	690 (500)	1020 (830)			Rate of descent	ft/min	425	535	635	745	850	955

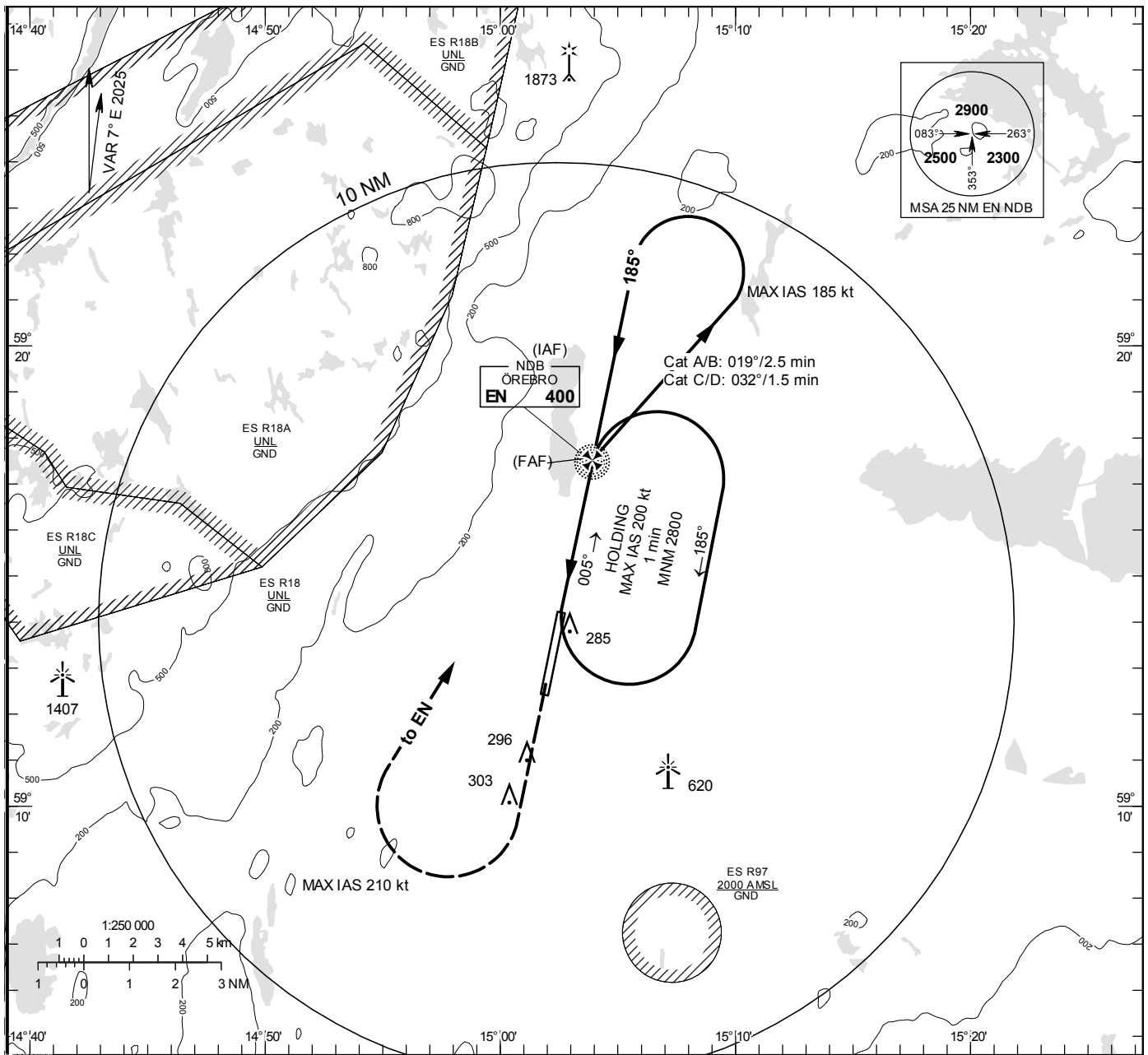


NDB RWY 19

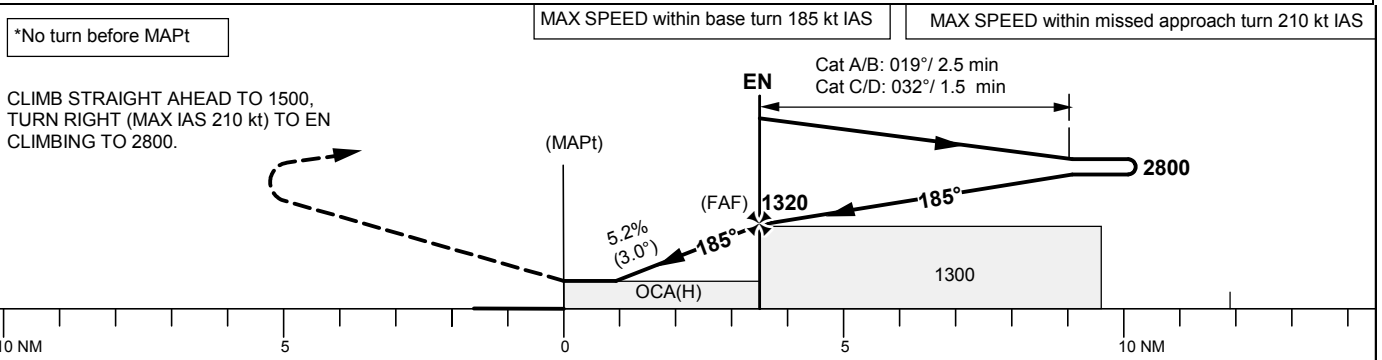
ÖREBRO TOWER 120.280

THR ELEV 191.1 ft, AD ELEV 192 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



Cat of ACFT	OCA (H)				Final approach		Distance FAF-MAPt 3.4 NM*					
	A	B	C	D	NOE	DME NM	2			3		
Straight-in Approach	540 (350)				ALT		820					
Circling	600 (410)	690 (500)	1020 (830)		GS	kt	80	100	120	140	160	180
					Time	min:s	2:31	2:01	1:41	1:26	1:16	1:07
					Rate of descent	ft/min	425	530	635	745	850	955

**AD 2 AERODROMES****ESNO 2.1 AERODROME LOCATION INDICATOR AND NAME****ESNO – ÖRNSKÖLD SVIK****ESNO 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

- |    |  |  |
|----|--|--|
| 1. | ARP coordinates and site at AD               | 632428N 0185933E RWY 800 m from THR 30   |
| 2. | Direction and distance from (city)           | NE 10 NM from Örnköldsvik  |
| 3. | Elevation/Reference temperature              | 355 ft/+18.5°C   |
| 4. | Geoid undulation at AD ELEV PSN              | 77 ft  |
| 5. | MAG VAR/Annual change                        | 8° E 2020/+0.2 increasing  |
| 6. | Administration, address, telephone, fax, AFS | Örnköldsvik Airport AB<br>Västanå 100<br>SE-896 91 Husum<br>TEL: +46 (0)660 874 00<br>FAX: +46 (0)660 874 07<br>E-mail: info@oer.se<br>AFS: ESNOZTX<br>Website: www.oer.se |
| 7. | Types of traffic permitted (IFR/VFR)         | IFR/VFR. Max RWY ref code 4C   |
| 8. | Remarks                                      | PPR outside TWR HR of OPS.<br>Request during TWR HR of OPS. TEL +46 (0)60 19 75 05   |

**ESNO 2.3 OPERATIONAL HOURS**

- |     |   |   |
|-----|---|---|
| 1.  | AD Administration<br>AD Operating hours | MON-FRI 0700-1500 (0600-1400)<br>Ref AIP SUP/NOTAM                                |
| 2.  | Customs and immigration                 | O/R TEL +46 (0)8 405 05 70, FAX +46 (0)8 654 06 11, tuk@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)              | 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 HRS   |
| 9.  | Handling                                | O/R   |
| 10. | Security                                | O/R   |
| 11. | De-Icing                                | O/R   |
| 12. | Remarks                                 | Increased charges outside AD HR of OPS.<br>For information TEL +46 (0)60 19 75 05 |

**ESNO 2.4 HANDLING SERVICES AND FACILITIES**

1.	Cargo-handling facilities	Available, limited
2.	Fuel/oil types	Fuel UL91, Jet A1 Oil -
3.	Fuelling facilities/discharge capacity	UL91: 20,000 l stationary Jet A1: 120,000 l fuel truck
4.	De-icing facilities	Available, Type I and II, mobile unit
5.	Hangar space for visiting ACFT	Limited O/R
6.	Repair facilities for visiting ACFT	Limited O/R
7.	Remarks	Fuel Supplier Air BP

**ESNO 2.5 PASSENGER FACILITIES**

1.	Hotels	In Örnsköldsvik
2.	Restaurants	At AD
3.	Transportation	Taxis, rental cars
4.	Medical facilities	In Örnsköldsvik
5.	Bank and Post Office	In Örnsköldsvik
6.	Tourist Office	In Örnsköldsvik
7.	Remarks	-

**ESNO 2.6 RESCUE AND FIRE FIGHTING SERVICES**

1.	AD category for fire fighting	CAT 6 for SKED traffic. Other traffic O/R. During periods of reduced AD activity, RFFS level of protection may be lowered to a level corresponding to the largest aircraft using the AD during that period.
2.	Rescue equipment	Off road vehicle
3.	Capability for removal of disabled aircraft	Suitable for aircraft up to A321
4.	Remarks	-

**ESNO 2.7 SEASONAL AVAILABILITY – CLEARING**

1.	Types of clearing equipment	Snowploughs, blowers/sweepers, slingers, spreaders
2.	Clearance priorities	RWY, Emergency access road, ILS-PAPI, TWY, Apron
3.	Remarks	RWY and TWY de-iced with KFOR or frozen SAND Apron de-iced with frozen SAND