AIR NAVIGATION SERVICES OF SWEDEN

AIP AMENDMENT SWEDEN

AIRAC AIP AMDT
1
06 FEB 2025

EFFECTIVE 20 MAR 2025

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 **20 MAR 2025**

Subject(s)	AIRAC Changes	AIP page
NPZ	Non-standard Planning Zone (NPZ) for flight planning established.	ENR 1.3, ENR 2.2
Air Traffic Services Airspace	New: Hagshult TMA.	ENR 2.1
Name-Code designators for significant points	New: IBNIC, MIDIC and WAKZU. FRA relevance: ALAMI, KOSKA, NISIX, SONIN, TERPA and XEBIB.	ENR 4.4
Prohibited, restricted and danger areas	New: ESR126 Rågården, ESR127 Solna, ESR128 Harpsund. Changed/renamed: ESR1 Esrange, ESR1A Esrange, ESR2 Vidsel, ESR2A Vidsel, ESR2B Vidsel, ESR2C Vidsel, ESR5 Boden Södra, ESR5A Boden södra, ESR5B Boden Södra, ESR7 Umeå, ESR8 Dagsådalen and ESR9 Saluböle. Space removed from identification of all restricted and danger areas, for example ES R62 SISJÖN becomes ESR62 SISJÖN.	ENR 5.1
Göteborg/Landvetter AD	OFZ, RESA, RDH GP, DME ELEV.	AD 2 ESGG
Hagshult AD	MIL AD published in AD 2. ATS Airspace established.	AD 2 ESMV
Stockholm/Arlanda AD	Apron BC withdrawn, anemometer, local traffic regulations, additional information.	AD 2 ESSA
Sundsvall-Timrå AD	TWY A PCN, LOC/GP Class.	AD 2 ESNN
Sälen/Scandinavian Mountains AD	ILS CAT, LOC/GP class.	AD 2 ESKS

Subject(s)	Non AIRAC changes. 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.	AIP page
Location indicators	ESMV AFTN.	GEN 2.4
Air Traffic Services (ATS)	Hagshult TWR new, Mora AFIS TEL; Göteborg APP TEL & FAX, Göteborg/Landvetter TWR TEL.	GEN 3.3
Military Reserved Airspace (TRA)	New: ESTRA75 and ESTRA76. Withdrawn: ESTRA72. Updated: ESTRA71 and ESTRA80.	ENR 5.2
Borlänge AD	Omnidirectional departure procedure RWY 32.	AD 2 ESSD
Eskilstuna AD	ILS Class.	AD 2 ESSU
Göteborg/Säve AD	AD Operating hours.	AD 2 ESGP
Hagfors AD	Additional information.	AD 2 ESOH
Halmstad AD	OBST.	AD 2 ESMT
Hemavan Tärnaby AD	Ref temp, web, removal of acft, RVR.	AD 2 ESUT
Kalmar AD	Additional information.	AD 2 ESMQ
Kiruna AD	LOC/GP Class.	AD 2 ESNQ
Kramfors-Sollefteå AD	RVR.	AD 2 ESNK
Ljungbyhed AD	ILS Class.	AD 2 ESTL
Lycksele AD	RVR, fuel, windsocks, anemometers.	AD 2 ESNL
Mora/Siljan AD	Address, TEL, e-mail.	AD 2 ESKM
Norrköping/Kungsängen AD	LED lights.	AD 2 ESSP
Pajala AD	Website, e-mail, PPR TEL, ILS Class.	AD 2 ESUP
Stockholm/Bromma AD	Passenger facilities, GP Class, D-ATIS withdrawn.	AD 2 ESSB
Örnsköldsvik AD	LOC/GP Class. Granted exemption.	AD 2 ESNO

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GEN	0-4-1--8	GEN	0-4-1--8
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	3.3-9/10		3.3-9/10
	3.4-1		3.4-1

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	5.4-63/64		5.4-63/64
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	1.1-31--34		1.1-31--34
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AD 2	ARVIDSJAUR	AD 2	ARVIDSJAUR
	ESNX 4-1		ESNX 4-1
	ESNX 4-3		ESNX 4-3
	ESNX 4-91		ESNX 4-91
	BORLÄNGE		BORLÄNGE
	ESSD 1-9/10		ESSD 1-9/10
	ESKILSTUNA		ESKILSTUNA
	ESSU 1-5/6		ESSU 1-5/6
	GÖTEBORG/Landvetter		GÖTEBORG/Landvetter
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	ESGG 1-17/18		ESGG 1-17/18
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	ESGG 2-7/8		ESGG 2-7/8
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	ESGG 4-7/8		ESGG 4-7/8
	ESGG 4-13/14		ESGG 4-13/14
	ESGG 4-19/20		ESGG 4-19/20
	ESGG 4-23/24		ESGG 4-23/24
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	ESGG 5-11/12		ESGG 5-11/12
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	GÖTEBORG/Säve		GÖTEBORG/Säve
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	HAGFORS		HAGFORS
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	HALMSTAD		HALMSTAD
	ESMT 1-3/4		ESMT 1-3/4
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	ESUT 1-1/2		ESUT 1-1/2
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ESMQ 1-1/2
ESMQ 1-7--9

KARLSTAD
ESOK 3-1

KIRUNA
ESNQ 1-7/8

KRAMFORS-SOLLEFTEÅ
ESNK 1-7/8

LJUNGBYHED
ESTL 1-7/8
ESTL 2-1
ESTL 4-3

LYCKSELE
ESNL 1-1/2
ESNL 1-7--10

MALMÖ
ESMS 4-1/2
ESMS 6-1

MORA/Siljan
ESKM 1-1/2
ESKM 2-1

NORRKÖPING/Kungsängen
ESSP 1-5/6

PAJALA
ESUP 1-1/2
ESUP 1-5/6

STOCKHOLM/Arlanda
ESSA 1-1/2
ESSA 1-11--20
ESSA 1-25--28
ESSA 2-1
ESSA 2-3--8
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ESSA 4-37/38
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ESSB 1-1/2
ESSB 1-7--12
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STOCKHOLM/Västerås
ESOW 4-91

SUNDSVALL-TIMRÅ
ESNN 1-3/4
ESNN 1-7/8
ESNN 2-1
ESNN 6-1

SÅTENÄS
ESIB 6-1

SÄLEN/Scandinavian Mountains
ESKS 1-7/8

UMEÅ
ESNU 2-1

Insert the following new pages:
Sätt in följande nya sidor:

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ESGJ 4-17--20
ESGJ 4-91
ESGJ 6-1

KALMAR
ESMQ 1-1/2
ESMQ 1-7--9

KARLSTAD
ESOK 3-1

KIRUNA
ESNQ 1-7/8

KRAMFORS-SOLLEFTEÅ
ESNK 1-7/8

LJUNGBYHED
ESTL 1-7/8
ESTL 2-1
ESTL 4-3

LYCKSELE
ESNL 1-1/2
ESNL 1-7--10

MALMÖ
ESMS 4-1/2
ESMS 6-1

MORA/SILJAN
ESKM 1-1/2
ESKM 2-1

NORRKÖPING/ Kungsängen
ESSP 1-5/6

PAJALA
ESUP 1-1/2
ESUP 1-5/6

STOCKHOLM/Arlanda
ESSA 1-1/2
ESSA 1-11--20
ESSA 1-25--28
ESSA 2-1
ESSA 2-3--8
ESSA 4-1/2
ESSA 4-7
ESSA 4-37/38
ESSA 4-91

STOCKHOLM/Bromma
ESSB 1-1/2
ESSB 1-7--12
ESSB 2-3
ESSB 6-1--4

STOCKHOLM/Västerås
ESOW 4-91

SUNDSVALL-TIMRÅ
ESNN 1-3/4
ESNN 1-7/8
ESNN 2-1
ESNN 6-1

SÅTENÄS
ESIB 6-1

SÄLEN/Scandinavian Mountains
ESKS 1-7/8

UMEÅ
ESNU 2-1

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AD 2	VÄXJÖ/Kronoberg ESMX 4-1 ESMX 4-91 ESMX 6-1 ÖREBRO ESOE 4-91 ÖRNSKÖLDSVIK ESNO 1-5--7 ESNO 5-7--9	AD 2	VÄXJÖ/Kronoberg ESMX 4-1 ESMX 4-91 ESMX 6-1 ÖREBRO ESOE 4-91 ÖRNSKÖLDSVIK ESNO 1-5--7 ESNO 5-7--9

Anteckna ändringen på sida GEN 0.2-1.

Record the Amendment on page GEN 0.2–1.

Följande AIP Supplement, AIC och NOTAM är inarbetade i detta AMDT och upphör att gälla den 20 MAR 25

The following AIP Supplements, AIC and NOTAMs are incorporated in this amendment and will expire on 20 MAR 25.

Supplement: 43/23, 190/24, 239/24, 252/24, 253/24, 254/24

AIC: -

NOTAM:
Series A: 1217/24, 1483/24
Series B: 3737/24, 3984/24, 3985/24, 4464/24, 0273/25
Series C: 0881/24, 0883/24, 0991/24, 0049/25
Series D: 0423/24
Series E: 0852/24, 0898/24, 0899/24, 0900/24, 0901/24, 1011/24, 1057/24
Series H: -

For comments, please contact: aip@lfv.se

- E N D / S L U T -

GEN 0.4 Kontrollista/Checklist of AIP pages

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0-4-1	20 MAR 2025
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0.5-1	30 MAR 2017
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GEN 1	
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1.2-2	17 JUN 2021
1.2-3	17 JUN 2021
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1.2-5	17 JUN 2021
1.3-1	17 JUN 2021
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1.7-25	28 NOV 2024
1.7-26	28 NOV 2024
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2.2-6	19 MAY 2022
2.2-7	19 MAY 2022
2.2-8	19 MAY 2022
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1.6-1	17 JUN 2021
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1.10-3	17 JUN 2021
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1.10-6	17 JUN 2021
1.10-7	30 NOV 2023
1.10-8	17 JUN 2021
1.10-9	25 MAY 2017
1.10-10	17 JUN 2021
1.10-11	17 JUN 2021
1.10-12	17 JUN 2021
1.10-13	17 JUN 2021
1.10-14	17 JUN 2021
1.10-15	17 JUN 2021
1.10-16	30 NOV 2023
1.10-17	30 NOV 2023
1.10-18	30 NOV 2023
1.10-19	30 NOV 2023
1.10-20	30 NOV 2023
1.10-21	30 NOV 2023
1.10-22	30 NOV 2023
1.11-1	03 NOV 2022
1.12-1	12 NOV 2015
1.12-2	12 NOV 2015
1.12-3	28 MAR 2019
1.12-4	28 MAR 2019
1.12-5	12 NOV 2015
1.13-1	28 MAR 2019
1.14-1	30 JAN 2020
1.14-2	30 JAN 2020
1.14-3	30 JAN 2020
1.14-4	30 JAN 2020
1.14-5	30 JAN 2020
1.14-6	30 JAN 2020
1.14-7	30 JAN 2020
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2.1-5	20 MAR 2025
2.1-6	20 MAR 2025
2.1-7	20 MAR 2025
2.1-8	20 MAR 2025
2.1-9	20 MAR 2025
2.1-10	20 MAR 2025
2.1-11	20 MAR 2025
2.1-12	20 MAR 2025
2.1-13	15 JUN 2023
2.1-14	15 JUN 2023
2.1-15	15 JUN 2023
2.1-16	01 DEC 2022
2.1-17	25 JAN 2024
2.2-1	28 MAR 2019
2.2-2	03 DEC 2020
2.2-3	18 MAY 2023
2.2-4	28 MAR 2019
2.2-5	28 MAR 2019
2.2-6	25 JAN 2024
2.2-7	25 JAN 2024
2.2-8	25 JAN 2024
2.2-9	18 JUN 2020
2.2-10	18 JUN 2020

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2.2-16	25 JAN 2024
2.2-17	03 DEC 2020
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2.2-19	20 MAR 2025
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3.2-1	02 NOV 2023
3.2-2	02 NOV 2023
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3.2-6	02 NOV 2023
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3.2-10	02 NOV 2023
3.2-11	02 NOV 2023
3.2-12	02 NOV 2023
3.2-13	02 NOV 2023
3.2-14	02 NOV 2023
3.2-15	02 NOV 2023
3.2-16	08 AUG 2024
3.2-17	02 NOV 2023
3.2-18	02 NOV 2023
3.2-19	02 NOV 2023
3.2-20	02 NOV 2023
3.2-21	02 NOV 2023
3.2-22	02 NOV 2023
3.2-23	02 NOV 2023
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3.2-26	02 NOV 2023
3.2-27	02 NOV 2023
3.2-28	02 NOV 2023
3.2-29	02 NOV 2023
3.2-30	02 NOV 2023
3.2-31	28 NOV 2024
3.2-32	02 NOV 2023
3.2-33	02 NOV 2023
3.2-34	02 NOV 2023
3.2-35	02 NOV 2023
3.2-36	02 NOV 2023
3.2-37	02 NOV 2023
3.2-38	02 NOV 2023
3.2-39	02 NOV 2023
3.2-40	02 NOV 2023
3.2-41	02 NOV 2023
3.2-42	28 NOV 2024
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3.2-44	02 NOV 2023
3.2-45	28 NOV 2024
3.3-1	02 NOV 2023
3.3-2	02 NOV 2023
3.3-3	02 NOV 2023
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3.3-5	02 NOV 2023
3.3-6	02 NOV 2023
3.3-7	28 NOV 2024
3.3-8	02 NOV 2023
3.3-9	20 MAR 2025
3.3-10	02 NOV 2023
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3.3-13	02 NOV 2023
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4.1-3	27 JAN 2022
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ESNV 5-7	30 JAN 2020
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ESNV 6-1	30 JAN 2020

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ESSV 1-4	13 JUN 2024
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ESSV 1-8	13 JUN 2024
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ESSV 1-10	28 NOV 2024
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ESSV 4-15	17 JUN 2021
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ESNO 6-1	21 MAR 2024
AD 3	
3.1-1	31 MAR 2016

tillkomst, beskaffenhet eller förändring av anläggningar, tjänster, föreskrifter eller hinder för luftfart, varom tidig kännedom är av väsenlig betydelse för flygtrafiken		condition or change in any aeronautical facility, service, procedure or hazard, the timely knowledge of which is essential to personnel concerned with flight operations
November	NOV	November
Normal operationszon	NOZ #	Normal operating zone
Icke precisionsinflygning	NPA	Non-precision approach
Område ej tillgängligt för färdplanering	NPZ	Non-standard Planning Zone
Nummer	NR	Number
Inget svar uppfattat	NRH	No reply heard
Nimbostratus	NS	Nimbostratus
Inga signifikanta moln	NSC	Nil significant cloud
Inget signifikant väder	NSW	Nil significant weather
Nationell	NTL	National
Spärrzon	NTZ #	No transgression zone
Nordväst	NW	North-west
Nordvästgående	NWB	North-westbound
Nästa	NXT	Next
	O	
Ocean-områdeskontroll	OAC	Oceanic area control centre
Hinderyta	OAS	Obstacle assessment surface
Operationell flygtrafik	OAT ^	Operational air traffic
Observera eller observerad eller observation	OBS	Observe or observed or observation
Skymma eller skymd eller skymmande	OBSC	Obscure or obscured or obscuring
Hinder	OBST	Obstacle
OCA (se BCL-Begrepp, "OCA/H")	OCA	Obstacle clearance altitude
Ocean-kontrollområde	OCA	Oceanic control area
Dolt eller skymt (om ljus)	OCC	Occulting (light)
OCH (se BCL-Begrepp, "OCA/H")	OCH	Obstacle clearance height
Tillfälligt eller tillfälligtvis	OCNL	Occasional or occasionally
Hinderfrihetsyta	OCS	Obstacle clearance surface
(Ej översatt)	OCS	Online coordination system (airport slot)
Oktober	OCT	October
Hinderfri zon	OFZ	Obstacle free zone
Avsända (trafiksignal i AFS)	OGN	Originate (to be used in AFS as a procedure signal)
Plats (position rakt över)	OHD	Overhead
Vi instämmer, vi samtycker eller det är rätt (trafiksignal i AFS)	OK °°	We agree or it is correct (to be used in AFS as a procedure signal)
Utväxling av data Online	OLDI *	Online data interchange
Yttersignal	OM	Outer marker
Vit ogenomskinlig isbildning	OPA	Opaque, white type of ice formation
Angiven kontroll är flygföretagets operativa kontroll	OPC	The control indicated is operational control
Operativ meteorologisk information	OPMET *	Operational meteorological (information)
Öppen, öppet, öppnande, öppnad eller öppnat	OPN	Open or opening or opened
Expeditör, flygoperatör, operera, opererande eller operationell	OPR	Operator or operate or operative or operating or operational
Funktioner eller verksamhet	OPS *	Operations
På begäran	O/R	On request
Order	ORD	Indication of an order
Väderskepp	OSV	Ocean station vessel
Utsikter (används i SIGMET-meddelanden för vulkanisk aska och tropiska cykloner)	OTLK	Outlook (used in SIGMET messages for volcanic ash and tropical cyclones)
Över alla moln	OTP	On top
Organiserat färdlinjesystem	OTS	Organized track system
Annan än standard kategori II-verksamhet	OTS	Other than standard
Utgående	OUBD	Outbound
Mulet eller heltäckt med moln	OVC	Overcast
	P	
Förbjudet område (följt av beteckning)	P...	Prohibited area (followed by identification)
Prognoskarta för 300 hPa yta	P3 >>	Prognostic chart for 300 hPa surface
Prognoskarta för 500 hPa yta	P5 >>	Prognostic chart for 500 hPa surface
Prognoskarta för 700 hPa yta	P7 >>	Prognostic chart for 700 hPa surface

Precisionsinflygning	PA	Precision approach
Inflygningsljus för precisionsinflygning	PALS	Precision approach lighting system (specify category)
Ilsignal (RTF)	PAN PAN	Urgency signal (RTF)
Föreskrifter för flygtrafiktjänst	PANS	Procedures for air navigation service
PAPI (system för noggrann visuell glidbaneindikering; typ av glidbaneljus)	PAPI *	Precision approach path indicator
Precisionsradar	PAR #	Precision approach radar
Parallell	PARL	Parallel
Terrängkarta för precisionsinflygning (följt av benämning)	PATC	Precision approach terrain chart (followed by name/title)
Passagerare	PAX	Passenger(s)
(Ej översatt)	PBN	Performance-Based Navigation
Fortsätt eller fortsätter	PCD	Proceed or proceeding
Förarstyrda ljus	PCL	Pilot controlled lighting
PCN-tal	PCN	Pavement classification number
Klarering meddelad före avgång	PDC #	Pre-departure clearance
Stiggradient (vid framtagning av startprocedur)	PDG	Procedure design gradient
Prestanda	PER	Performance
Ständig	PERM	Permanent
Informationsbulletin inför flygning	PIB	Pre-flight information bulletin
(Ej översatt)	PINS	Point-in-space
Fallskärmshoppning (övning)	PJE	Parachute jumping exercise
Iskorn	PL	Ice pellets
Övningsomdrag	PLA	Practice low approach
Nuvarande flyghöjd	PLVL	Present level
Förhandsmeddelande erfordras	PN	Prior notice required
Aktionsradiepunkt (point of no return)	PNR	Point of no return
Stoftvirvlar	PO	Dust/Sand whirls (dust devils)
Personer ombord	POB	Persons on board
Möjlig(t)	POSS	Possible
Plan polär indikator	PPI	Plan position indicator
Förhandstillstånd erfodras	PPR	Prior permission required
Nuvarande position	PPSN	Present position
Flygplatsen delvis täckt av dimma	PRFG	Aerodrome partially covered by fog
Primär	PRI	Primary
Parkering	PRKG	Parking
Sannolikhet	PROB *	Probability
Förfarande	PROC	Procedure
Provisorisk	PROV	Provisional
(Ej översatt)	PRP	Point in space reference system
Plus	PS	Plus
Passerar	PSG	Passing
Position	PSN	Position
Perforerat stålplank	PSP	Pierced steel plank
Primärradar	PSR #	Primary radar
Prognoskarta för signifikativt väder	Psw >>	Prognostic significant weather chart
Inflygningssväng	PTN	Procedure turn
Provisorisk beräknad starttid	PTOT ^	Provisional take-off time
Flygvägssystem över polarområdet	PTS	Polar track structure
Kraft	PWR	Power
	Q	
IFR-flygning obligatorisk	QBI	Compulsory IFR flight
Magnetisk kurs (ingen vind)	QDM #	Magnetic heading (zero wind)
Magnetisk bäring	QDR	Magnetic bearing
Lufttryck vid flygplatsens höjd över havet (eller vid banans tröskel)	QFE #	Atmospheric pressure at aerodrome elevation (or at runway threshold)
En banas magnetiska riktning	QFU	Magnetic orientation of runway
Höjdmätaren inställd så att höjden över havsytans medelnivå erhålls när man befinner sig på marken	QNH #	Altimeter sub-scale setting to obtain elevation when on ground
Incidentjakt	QRA	Quick reaction alert
Transitering av meddelande (trafiksignal i AFS)	QSP	Relay of message (to be used in AFS as a Q Code)
Annullering av telegram (trafiksignal i AFS)	QTA	Cancel telegram (to be used in AFS as a Q Code)
Geografisk bäring	QTE	True bearing
Kvadrant	QUAD	Quadrant

Rättvisande färdlinje	QUJ	True track
	R	
Mottaget (mottagningskvittens) (trafiksignal i AFS)	R °°	Recieved (acknowledgement of receipt) (to be used in AFS as a procedure signal)
Röd	R	Red
Reparationer	R >>	Repairs
Höger (banbeteckning)	R	Right (runway identification)
Radial från VOR (följt av tre siffror)	R...	Radial from VOR (followed by three figures)
Restriktionsområde (följt av beteckning)	R...	Restricted area (followed by identification)
Radiohöjdmätarindikering	RA >>	Radio altimeter reading
Regn	RA	Rain
Trafikregler för luftfart och flygtrafikledning	RAC	Rules of the air and air traffic services
(Ej översatt)	RAD ^	Route Availability Document
Sönderriven	RAG	Ragged
Utrullningshinder	RAG	Runway arresting gear
Ljusfyr för inriktning mot banan	RAI	Runway alignment indicator
(Ej översatt)	RAIM *	Receiver autonomous integrity monitoring
(Ej översatt)	RASC *	Regional AIS system centre
Livbåt	RB	Rescue boat
Uppnå marschhöjd	RCA	Reach cruising altitude
Räddningscentral	RCC	Rescue co-ordination centre
Begäran om klarering (datalänk)	RCD	Request clearance
Meddelande om avbrott i radioförbindelse	RCF	Radio communication failure message
Nå eller når	RCH	Reach or reaching
Bancentrumlinje	RCL	Runway centre line
Centrumlinjeljus	RCLL	Runway centre line light(s)
Omklarerad	RCLR	Recleared
Krav på kommunikationsprestanda	RCP	Required communication performance
Referenshöjd	RDH	Reference datum height
Radial	RDL	Radial
Radio	RDO	Radio
Radarplanépunkt	RDP >>	Radar descent point
(Ej översatt)	RDY ^	Ready message
Nyligen (används i kombination med väderfenomen, t.ex. RERA = regn sedan föregående METAR)	RE	Recent (used to qualify weather phenomena e.g. RERA = recent rain)
Mottaga eller mottagare	REC	Receive or receiver
Bankantljus	REDL	Runway edge light(s)
Refererande till eller referera till	REF	Reference to... or refer to...
Brand- och räddningstjänstkategori	REFF >>	Rescue and fire fighting category
Registreringsbeteckning	REG	Registration
Banändljus	RENL	Runway end light(s)
Rapportpunkt	REP	Reporting point
Begär(an) eller begärd	REQ	Request or requested
Omrouta (ändra flygväg)	RERTE	Reroute
Säkerhetsområde vid banände	RESA	Runway end safety area
Taxibana för snabb avfart	RET >>	Rapid exit taxiway
(Ej översatt)	RF	Radius-to-fix
Brand- och räddningstjänst	RFFS	Rescue and fire fighting services
Ersättande färdplan	RFP	Replacement flight plan
Räckvidd (ljus)	RG	Range (lights)
Varningsljus för bana i användning	RGL >>	Runway guard lights
Högervarv (Höger trafikvarv)	RHC	Right-hand circuit
Omklarering under flygning	RIF	Reclearance in flight
Höger (svängriktning)	RITE	Right (direction of turn)
Anmäl när Du lämnar	RL	Report leaving
Transitera till	RLA	Relay to
Begär höjdändring på sträckan	RLCE	Request level change enroute
Baninledningsljus	RLLS	Runway lead-in lighting system
Begärd höjd är inte tillgänglig	RLNA	Requested level not available
Anmärkning	RMK	Remark
Regler för militär luftfart	RML >>	Rules for military aviation
Luftrum med krav på dubbelriktad radioförbindelse	RMZ ^	Radio mandatory zone
Områdesnavigering	RNAV *	Area navigation
Riktad radiofyr	RNG	Radio range
Krav på navigeringsnoggrannhet	RNP	Required Navigation Performance

Stighastighet	ROC	Rate of climb
Sjunkhastighet	ROD	Rate of descent
Sträckprognos (i meteorologisk kod för luftfarten)	ROFOR	Route forecast (in aeronautcial meteorological code)
Endast mottagning	RON	Receiving only
Fjärrstyrt luftfartygssystem	RPAS	Remotely Piloted Aircraft Systems
Radarpositionsindikering	RPI #	Radar position indication
Repeterfärdplan	RPL	Repetetive flight plan
Ersätt eller ersatt	RPLC	Replace or replaced
Radarpositionssymbol	RPS	Radar position symbol
Repetera eller Jag repeterar (trafiksignal i AFS)	RPT °°	Repeat or I repeat (to be used as a procedure signal)
Beteckning på förfrågan (trafiksignal i AFS)	RQ °°	Indication of a request (to be used as a procedure signal)
Meddelande med begäran om färdplan	RQP	Request flight plan (message type designator)
Meddelande med begäran om kompletterande färdplan	RQS	Request supplementary flight plan (message type designator)
Anmäl när Du når	RR	Report reaching
(Ej översatt)	RRP ^	Rerouting proposal message
Räddningsundercentral	RSC	Rescue sub-centre
Banförhållanden	RSCD	Runway surface condition
Svarsfyr	RSP	Responder beacon
Övervakningsradar för flygsträcka	RSR	En-route surveillance radar
(Ej översatt)	RTC >>	Remote tower centre
Försenad (används för att ange försenat meteorologiskt meddelande)	RTD	Delayed (used to indicate delayed meteorological message)
Flygväg	RTE	Route
Radiotelefon	RTF	Radiotelephone
Radiotelegraf	RTG	Radiotelegraph
Tröskelljus	RTHL	Runway threshold light(s)
Återvänd(a) eller har återvänt eller jag återvänder	RTN	Return or returned or returning
Tillgänglig startsträcka för avbruten start, helikopter	RTODAH	Rejected take-off distance available, helicopter
(Ej översatt)	RTS >>	Remote tower service
Åter(gå) i tjänst eller i drift	RTS	Return to service
Radioteleprinter	RTT	Radioteletypewriter
Mast med kamerainstallation på flygplats	R-TWR >>	Mast with camerainstallation on aerodrome
Sättningszonljus	RTZL	Runway touchdown zone light(s)
Sändningsfrekvenser enligt regional standard för berörd sträcka	RUT	Standard regional route transmitting frequencies
Räddningskryssare	RV	Rescue vessel
Bansynvidd	RVR #	Runway visual range
Reducerat vertikalt separationsminima	RVSM	Reduced vertical separation minima
Bana	RWY	Runway
	S	
Söder eller sydlig latitud	S	South or southern latitude
Synoptisk markkarta var 3:e timme	S3 >>	Every 3 hours surface synoptic chart
Sand	SA	Sand
Flygvapnet	SAF >>	Swedish air force
Enkelt inflygningsljussystem	SALS	Simple approach lighting system
Meddelande om tilldelad CTOT	SAM ^	Slot allocation message
Sanitär kontroll	SAN	Sanitary
Så snart som möjligt	SAP	As soon as possible
Flygräddningstjänst	SAR	Search and rescue
Standardbestämmelser och rekommendationer (ICAO)	SARPS	Standards and recommended practices (ICAO)
Lördag	SAT	Saturday
Satellitkommunikation	SATCOM *	Satellite communication
Sydgående	SB	Southbound
(Ej översatt)	SBAS *	Satellite based augmentation system
Stratocumulus	SC	Stratocumulus
(Ej översatt)	SCR	Slot clearance request/reply
Spridd(a)	SCT	Scattered
Vänta	SDBY	Stand by
(Ej översatt)	SDF	Step down fix
Sydost	SE	South-east
Sydostgående	SEB	South-eastbound

Sekunder	SEC	Seconds
Sektor	SECT	Sector
Selektivt anropssystem (SELCAL)	SELCAL *	Selective calling system (SELCAL)
September	SEP	September
Tjänst, tjänstgöring eller betjänad	SER	Service or servicing or served
Svår (används tex för att i rapporter gradera is-bildning, turbulens etc)	SEV	Severe (used e.g. to qualify icing and turbulence reports)
Yta	SFC	Surface
Kornsnö	SG	Snow grains
Signal	SGL	Signal
Skurar eller byar (följt av RA = regn, SN = snö, PL = iskorn, GR = hagel, GS = småhagel och/eller snöhagel eller kombinationer därav, t.ex. SHRASN = byar av regn och snö)	SH...	Showers (followed by RA = rain, SN = snow, PL = ice pellets, GR = hail, GS = small hail and/or snow pellets or combinations thereof, e.g. SHRASN = showers of rain and snow)
Centimetervågor (3 000 - 30 000 MHz)	SHF	Super high frequency (3 000 - 30 000 MHz)
Internationella måttenhetssystemet	SI	International system of units
Standardflygväg för avgående IFR-trafik	SID *	Standard instrument departure
Utrustning för selektiv identifiering	SIF	Selective identification feature
Signifikant	SIG	Significant
Uppgift om väderfenomen under flygning som kan inverka på flygsäkerheten	SIGMET *	Information concerning en route weather phenomena which may affect the safety of aircraft operations
Samtidig(t)	SIMUL	Simultaneous or simultaneously
(Ej översatt)	SIP ^	Slot improvement proposal
Belastning per enkelhjul	SIWL	Single isolated wheel load
Klar himmel	SKC	Sky clear
Tidtabell eller regelbunden	SKED	Schedule or scheduled
Upphävande av tidigare tilldelad(e) SLOT	SLC ^	Slot cancellation
Signallampa	SLG >>	Signal light gun for optical signals
(Ej översatt)	SLP	Speed limiting point
Långsam	SLW	Slow
Kontroll av markrörelser	SMC	Surface movement control
(Ej översatt)	SMM ^	Slot missed message
Markrörelseradar	SMR	Surface movement radar
Sekvens nummer	SN ^	Sequence number
Snöfall	SN	Snow
En särskild serie NOTAM som anger förekomst eller borttagande av riskfyllda förhållanden på grund av snö, is, slask eller vattensamlingar i samband med snö, slask och is på färdområdet och som sammanställs enligt därför fastställt format	SNOWTAM *	A special series NOTAM notifying the presence or removal of hazardous conditions due to snow, ice, slush or standing water associated with snow, slush and ice on the movement area, by means of a specific format
Svensk normaltid (=UTC + 1 HR)	SNT >>	Swedish standard time (= UTC +1 HR)
(Ej översatt)	SPA ^	Slot improvement proposal acceptance
Utvald specialrapport för luftfarten (i meteorologisk kod för luftfarten)	SPECI *	Aviation selected special weather report (in aeronautical meteorological code)
Meteorologisk specialrapport (i förkortad klartext)	SPECIAL *	Special meteorological report (in abbreviated plain language)
(Ej översatt)	SPI >>	Special position indicator
Kompletterande färdplansmeddelande	SPL	Supplementary flight plan message
(Ej översatt)	SPO ^	Specialised Operations
SAR kontaktpunkt	SPOC	SAR point of contact
Punktvind	SPOT *	Spot wind
Utpräglad, stark vindby	SQ	Squall
Bylinje	SQL	Squall line
Soluppgång	SR	Sunrise
Radarinflygning (utförd med övervakningsradar)	SRA	Surveillance radar approach
Övervakningsradardel av precisionsradarsystem	SRE	Surveillance radar element of precision approach radar system
Kort räckvidd eller korttids-	SRG	Short range
(Ej översatt)	SRJ ^	Slot improvement proposal rejection
(Ej översatt)	SRM ^	Slor revision message
Flygräddningsregion	SRR	Search and rescue region
Sekundär	SRY	Secondary
Sandstorm	SS	Sandstorm
Solnedgång	SS	Sunset
Enkelt sidband	SSB	Single sideband
Sydsydost	SSE	South south east

Sekundär övervakningsradar	SSR #	Secondary surveillance radar
Överljudsplan	SST	Supersonic transport
Svensk sommartid (UTC + 2 HR)	SSUT >>	Swedish summer time (UTC + 2 HR)
Sydsydväst	SSW	South south west
Stratus	ST	Stratus
Direktinflygning	STA	Straight in approach
Standardflygväg för ankommande IFR - trafik	STAR	Standard instrument arrival
Konfliktvarningssystem	STCA	Short-term conflict alert
Standard	STD	Standard
Stratiform	STF	Stratiform
Station	STN	Station
Stationär	STNR	Stationary
Kort start och landning	STOL	Short take-off and landing
Stridsledningsenhet	STRI >>	(Not translated)
Status	STS	Status
Ljus vid utrullningsområde	STWL	Stopway light(s)
Beroende av eller Under förutsättning av eller Med reservation för	SUBJ	Subject to...
Söndag	SUN	Sunday
Supplement (AIP Supplement)	SUP	Supplement (AIP Supplement)
Regionala tilläggsföreskrifter	SUPPS	Regional supplementary procedures
Tjänstemeddelande	SVC	Service message
Användbar, i funktion	SVCBL	Serviceable
Sydväst	SW	South-west
Svensk(a)	SW >>	Swedish
Sydvästgående	SWB	South-westbound
Utrullningsområde	SWY	Stopway
	T	
Temperatur	T	Temperature
Genomgångshöjd	TA	Transition altitude
(Ej översatt)	TAA	Terminal arrival altitude
Taktiskt navigationshjälpmedel för luftfarten UHF	TACAN *	UHF tactical air navigation aid
Flygplatsprognos	TAF *	Aerodrome forecast
Medvind	TAIL *	Tail wind
Övervakningsradar för TMA	TAR	Terminal area surveillance radar
Kurshastighet	TAS	True airspeed
Körning på marken eller köra på marken	TAX	Taxiing or taxi
Tropisk virvelstorm	TC	Tropical cyclone
(Ej översatt)	TCAS	Traffic alert and collision avoidance system
(Ej översatt)	TCH	Threshold Crossing Height
Upptornande cumulus	TCU	Towering cumulus
Tromb	TDO	Tornado
Sättningszon (vid landning)	TDZ	Touchdown zone
Teknisk orsak	TECR	Technical reason
Telefon (nummer)	TEL	Telephone
Tidvis	TEMPO *	Temporary or temporarily
(Ej översatt)	TF	Track-to-fix
Trafik	TFC	Traffic
Telefon (apparat)	TFN >>	Telephone (apparatus)
Landning följd av omedelbart pådrag (Studs - och - gå)	TGL	Touch-and-go landing
Vägledningsljus för taxning	TGS	Taxiing guidance system
Tröskel	THR	Threshold
Torsdag	THU	Thursday
Trafikinformationsområde	TIA >>	Traffic information area
CQ-utsändning av trafikinformation från luftfartyg	TIBA *	Traffic information broadcast by aircraft
Tills	TIL *	Until
Taktiskt instrumentlandningssystem	TILS >>	-
Tills förbi...(plats)	TIP	Until past...(place)
Trafikinformationszon	TIZ >>	Traffic information zone
Start	TKOF	Take-off
Till kl .. (följt av den tid då väderförändring är förutsagd att sluta)	TL. .	Till (followed by time by which weather change is forecast to end)
Sättnings- och lättningsplats	TLOF	Touchdown and lift-off area

Terminalområde	TMA #	Terminal control area
Transportabel markradiopejl	TMRP >>	-
Svänghöjd (QNH)	TNA	Turn altitude
Svänghöjd (QFE)	TNH	Turn height
Till...(plats)	TO	To...(place)
Fullbordad stigning	TOC	Top of climb
Tillgänglig startsträcka	TODA	Take-off distance available
Tillgänglig startsträcka för helikopter	TODAH	Take-off distance available, helicopter
Molntopp	TOP *	Cloud top
Tillgänglig start-rullsträcka	TORA	Take-off run available
(Ej översatt)	TOS	Traffic orientation schemes
Svängpunkt	TP	Turning point
Färdlinje	TR	Track
Tillfälligt reserverat luftrum	TRA	Temporary reserved airspace
Sänder eller sändare	TRANS	Transmits or transmitter
Landningsrapport	TREND	Landing forecast
Tröskelidentifieringsljus	TRID >>	Threshold identification lights
Genomgångsnivå	TRL	Transition level
Tropopaus	TROP	Tropopause
Åskväder (i flygplatsrelaterade rapporter och prognoser innebär »TS» ensamt åskväder utan nederbörd på flygplatsen)	TS	Thunderstorm (in aerodrome reports and forecasts, TS used alone means thunder heard but no precipitation at the aerodrome)
Åskväder (följt av RA = regn, SN = snö, PE = iskorn, GR = ishagel och/eller snökorn eller kombinationer därav, t.ex. TSRASN = åskväder med regn och snö)	TS. .	Thunderstorm (followed by RA = rain, SN = snow, PE = ice pellets, GR = hail and/or snow pellets or combinations thereof, e.g. TSRASN = thunderstorm with rain and snow)
Transportstyrelsens författningssamling	TSFS >>	(Not translated)
Fjärrskrivare	TT	Teletypewriter
Tisdag	TUE	Tuesday
Turbulens	TURB	Turbulence
TMA VOR	TVOR	Terminal VOR
Flygplatskontroll	TWR	Aerodrome control tower
Taxibana	TWY	Taxiway
Förbindelseled mellan taxibanor	TWYL	Taxiway-link
Maxtemperatur	TX	Maximum temperature
Text (När denna signal används för att begära en repetition, föregås signalen av frågetecken (IMI), tex IMI TXT) (trafiksignal i AFS)	TXT °°	Text (when the abbreviation is used to request a repetition, the question mark (IMI) precedes the abbrevatition, e.g. IMI TXT) (to be used in AFS as a procedure signal)
Typ av luftfartyg	TYP	Type of aircraft
Tropisk virvelstorm	TYPH	Typhoon
	U	
Förbättring (tendens för RVR under de senaste 10 min)	U	Upward (tendency in RVR during previous 10 minutes)
300 hPa-karta	U3 >>	300 hPa chart
500 hPa-karta	U5 >>	500 hPa chart
700 hPa-karta	U7 >>	700 hPa chart
Tills meddelande erhålls från...	UAB	Until advised by...
Områdeskontroll för övre luftrummet	UAC	Upper area control centre
Övre flygväg	UAR	Upper air route
Obemannat luftfartygsystem	UAS	Unmanned aircraft system
Obemannat luftfartyg	UAV ^	Unmanned Aircraft Vehicle
UHF-pejl	UDF	Ultra high frequency direction-finding station
Tills vidare	UFN	Until further notice
Färdtillstånd på högre höjd kan ej lämnas p g a trafik	UHDT	Unable higher due traffic
Decimetervågor (300 - 3 000 MHz)	UHF #	Ultra high frequency (300 - 3000 MHz)
Informationscentral för övre luftrummet	UIC	Upper information centre
Övre flyginformationsregion	UIR #	Upper flight information region
Extremt lång räckvidd	ULR	Ultra long range
Kan inte	UNA	Unable
Kan inte godkänna/tillåta	UNAP	Unable to approve
Obegränsad	UNL	Unlimited
Otillförlitlig	UNREL	Unreliable
Ur funktion	U/S	Unserviceable
Övre kontrollområde	UTA	Upper control area

Samordnad världstid	UTC #	Universal Time Coordinated
(Ej översatt)	UUP ^	Updated airspace use plan
	V	
Vulkanisk aska	VA	Volcanic ash
Visuellinflygningskarta (följt av benämning)	VAC	Visual approach chart (followed by name/title)
I dalgångar	VAL	In valleys
(Ej översatt)	VAL ^	Vertical Alarm Limit
Fordon för bankontroll	VAN	Runway control van
Missvisning, magnetisk	VAR	Magnetic variation
Talfyr	VAR	Visual-aural radio range
System för glidbaneindikering	VASIS	Visual approach slope indicator systems
I närheten av flygplatsen (följs av FG = dimma, FC = utpräglade stoftvirvlar, PO = tromb, BLDU = höga stoftvirvlar, BLSA = höga sandvirvlar, BLSN = högt snödrev, t.ex. VC FG = dimma i flygplatsens närhet)	VC	In vicinity of the aerodrome (followed by FG = fog, FC = funnel cloud, PO = dust devils, BLDU = blowing dust, BLSA = blowing sand, or BLSN = blowing snow, e.g. VC FG = fog in vicinity)
Närhet(en)	VCY	Vicinity
VHF-pejl	VDF	Very high frequency direction-finding station
Vertikal	VER	Vertical
Visuellflygregler	VFR #	Visual flight rules
Metervågor (30 000 kHz - 300 MHz)	VHF #	Very high frequency (30000 kHz - 300 MHz)
Mycket betydande person	VIP #	Very important person
Sikt	VIS	Visibility
Kilometervågor (3 - 30 kHz)	VLF	Very low frequency (3 - 30 kHz)
Mycket lång räckvidd	VLR	Very long range
Visuella väderförhållanden	VMC #	Visual meteorological conditions
(Ej översatt)	VNAV	Vertical navigation
Meteorologiska informationer för luftfartyg under flygning	VOLMET *	Meteorological information for aircraft in flight
Riktad radiofyr, VHF	VOR #	VHF omnidirectional radio range
VOR- och TACAN-kombination	VORTAC *	VOR and TACAN combination
Flygburen VOR-utrustning för prov	VOT	VOR airborne equipment test facility
(Ej översatt)	VPA	Vertical Path Angle
Varierande (växlande)	VRB	Variable
Genom marksikt	VSA	By visual reference to the ground
(Ej översatt)	VSDA	Visual segment descent angle
Vertikal hastighet	VSP	Vertical speed
Vertikal start och landning	VTOL	Vertical take-off and landing
	W	
Väster eller västlig longitud	W	West or western longitude
Vit	W	White
(Ej översatt)	WAAS *	Wide area augmentation system
Världsflygkarta ICAO 1:1 000 000 (följt av benämning)	WAC	World aeronautical chart - ICAO 1:1000000 (followed by name/title)
Global central för områdesprognoser	WAFC	World area forecast centre
Västgående	WB	Westbound
"Wingbar"-ljus	WBAR	Wing bar light
Indikator som anger vindriktning	WDI	Wind direction indicator
Utbredd eller vidsträckt	WDSPR	Widespread
Onsdag	WED	Wednesday
Från och med	WEF	With effect from or effective from
Globalt geodetiskt referenssystem 1984	WGS-84	World geodetic system - 1984
Inom	WI	Within
Vidd eller bredd	WID	Width
Med omedelbar verkan	WIE	With immediate effect or effective immediately
Ska ske	WILCO *	Will comply
Höjdvinds- och temperaturprognos för luftfarten	WINTEM	Forecast upper wind and temperature for aviation
Arbete pågår	WIP	Work in progress
Försvaga(s)	WKN	Weaken or weakening
Västnordväst	WNW	West north west
Utan	WO	Without
Routepunkt	WPT	Way point
Varning	WRNG	Warning
Vindskjuvning	WS	Wind shear

Vindhastighet	WSPD	Windspeed
Västsydväst	WSW	West south west
Vikt	WT	Weight
Skydrag	WTSPT	Waterspout
(ej översatt)	WWW	World wide web
Väder	WX	Weather
	X	
Korsa eller passera	X	Cross
»Crossbar» (ingår i system för inflygningsljus)	XBAR	Crossbar (of approach lighting system)
Korsar eller passerar	XNG	Crossing
Atmosfäriska störningar	XS	Atmospherics
	Y	
Gul	Y	Yellow
Gul varningszon (banbelysning)	YCZ	Yellow caution zone (runway lighting)
Ja (jakande) (trafiksignal i AFS)	YES °°	Yes (affirmative) (to be used in AFS as a procedure signal)
Er(t)	YR	Your
	Ö	
Öppethållningstid	ÖHT >>	Operational hours

2 Definitioner

AMC Manageable Area (AMA)

Ett område som hanteras och allokeras av AMC (cell för luftrumsplanering) på nivå 2.

FRA Arrival Connecting Point:

Ett radionavigationshjälpmedel/en signifikant punkt till vilken FRA färdplanering är tillåten för ankommande trafik.

FRA Departure Connecting Point:

Ett radionavigationshjälpmedel/en signifikant punkt från vilken FRA färdplanering är tillåten för avgående trafik.

FRA Horizontal Entry Point:

Ett radionavigationshjälpmedel/en signifikant punkt från vilken FRA färdplanering är tillåten.

FRA Horizontal Exit Point:

Ett radionavigationshjälpmedel/en signifikant punkt till vilken FRA färdplanering är tillåten.

FRA Connecting Point:

En position där övergång mellan FRA och flygvägar planeras.

FRA Connecting Route:

Ett specifikt segment som förbinder FRA Connecting Point med procedurer för avgående/ankommande trafik.

2 Definitions

AMC Manageable Area (AMA)

An area subject to management and allocation by AMC (Airspace Management Cell) at Level 2.

FRA Arrival Connecting Point:

A published NAV aid/Significant Point to which FRA operations are allowed for arriving traffic to specific aerodromes.

FRA Departure Connecting Point:

A published NAV aid/Significant Point from which FRA operations are allowed for departing traffic from specific aerodromes.

FRA Horizontal Entry Point:

A published Significant Point on the horizontal boundary of the Free Route Airspace from which FRA operations are allowed.

FRA Horizontal Exit Point:

A published Significant Point on the horizontal boundary of the Free Route Airspace to which FRA operations are allowed.

FRA Connecting Point:

A position where transit between FRA and Fixed Route operation is planned.

FRA Connecting Route:

A specified segment connecting a FRA Connecting Point with departure/arrival procedures.

FRA Intermediate Point:

Ett radionavigeringshjälpmedel/en signifikant punkt eller en geografisk koordinat via vilken FRA operationer är tillåtet.	A published Significant Point or unpublished point, defined by geographical coordinates or by bearing and distance via which FRA operations are allowed.

2.4 Platsindikatorer / Location indicators

» Inte ansluten till AFTN / Not connected to the AFTN

1 Platsindikatorer efter plats / Location indicators by Location

Location	Indicator	
AFTN-central/AFTN-centre	ESSS	
ALINGSÅS	ESGI	»
ANDERSTORP	ESMP	»
ARBOGA	ESQO	»
ARBRÅ	ESUB	»
ARVIDSJAUR	ESNX	
ARVIKA	ESKV	»
AVESTA	ESVA	»
BOLLNÄS/Sjukhuset	ESJB	»
BORGLANDA	ESMB	»
BORLÄNGE	ESSD	
BORÅS	ESGE	»
BORÅS/Borås sjukhus	ESEB	»
BRATTFORSHEDEN	ESSM	»
BUNGE	ESVB	»
BÄCKEFORS/Dalslands sjukhus	ESJD	»
DALA-JÄRNA	ESKD	»
EDSBYN	ESUY	»
EKSHÄRAD	ESKH	»
EKSJÖ/Ränneslätt	ESMC	»
ENKÖPING/Långtora	ESVL	»
ESKILSTUNA	ESSU	
ESKILSTUNA/Ekeby	ESSC	»
ESLÖV	ESME	»
FAGERHULT	ESMF	»
FALKENBERG/Morup	ESGF	»
FALKÖPING	ESGK	»
FALUN/Falu lasarett	ESEF	»
FJÄLLBACKA	ESTF	»
Flygräddningscentral/ Aeronautical Rescue Co-ordination Centre (ARCC)	ESOR	
FM Hkv	ESCC	
GAGNEF	ESVG	»
GARGNÄS	ESUG	»
GNESTA/Vängsö	ESSZ	»
GRYTTJOM	ESKG	»
GÄLLIVARE	ESNG	
GÄLLIVARE/Gällivare sjukhus	ESHA	»
GÄLLIVARE/Vassara	ESEG	»
GÄVLE	ESSK	»
GÄVLE/Sjukhuset	ESJA	»

Location	Indicator	
GÖTEBORG/Landvetter	ESGG	
GÖTEBORG/Sahlgrenska sjukhuset	ESHS	»
GÖTEBORG/Säve	ESGP	
GÖTEBORG/Östra sjukhuset	ESHB	»
GÖTENE/Brännebrona	ESGN	»
GÖVIKEN/Helikopterflygplats	ESJH	»
HAGFORS	ESOH	
HAGSHULT	ESMV	
HALLVIKEN	ESNA	»
HALMSTAD	ESMT	
HEDE/Hedlanda	ESNC	»
HEMAVAN TÄRNABY	ESUT	
HERRLJUNGA	ESGH	»
HUDIKSVALL	ESNH	»
HUDIKSVALL/Sjukhuset	ESHX	»
HULTSFRED-VIMMERBY	ESSF	»
HÄLLEFORS	ESVH	»
HÄRNÖSAND/Myran	ESUH	»
HÄSSLEHOLM/Bokeberg	ESFA	»
HÖGANÄS	ESMH	»
IDRE	ESUE	»
JOKKMOKK	ESNJ	»
JÖNKÖPING	ESGJ	
JÖNKÖPING/Ryhov sjukhus	ESHJ	»
KALMAR	ESMQ	
KARLSBORG	ESIA	
KARLSKOGA	ESKK	
KARLSKRONA/Blekingesjukhuset	ESHN	»
KARLSTAD	ESOK	
KARLSTAD/Centralsjukhuset	ESHV	»
KATRINEHOLM	ESVK	»
KIRUNA	ESNQ	
KIRUNA/Kiruna sjukhus	ESEQ	»
KIRUNA/Luossajärvi	ESEK	»
KRAMFORS-SOLLEFTEÅ	ESNK	
Kriegers Flak A	ESEX	»
Kriegers Flak B	ESEZ	»
KRISTIANSTAD	ESMK	
KUNGÄLV/Kungälvs sjukhus	ESHM	»
KÅGERÖD	ESMJ	»
KÖPING	ESVQ	»
LANDSKRONA	ESML	»

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

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

Indicator		Location
ESKR		Stockholm Radio
ESKS		SÄLEN/Scandinavian Mountains
ESKT	»	TIERP
ESKU	»	SUNNE
ESKV	»	ARVIKA
ESMB	»	BORGLANDA
ESMC	»	EKSJÖ/Ränneslätt
ESME	»	ESLÖV
ESMF	»	FAGERHULT
ESMG	»	LJUNGBY/Feringe
ESMH	»	HÖGANÄS
ESMI	»	SJÖBO SÖVDE
ESMJ	»	KÅGERÖD
ESMK		KRISTIANSTAD
ESML	»	LANDSKRONA
ESMM		MALMÖ ACC
ESMO	»	OSKARSHAMN
ESMP	»	ANDERSTORP
ESMQ		KALMAR
ESMS		MALMÖ
ESMT		HALMSTAD
ESMU	»	ÄLMHULT/Möckeln
ESMV		HAGSHULT
ESMX		VÄXJÖ/Kronoberg
ESMY	»	SMÅLANDSSTENAR
ESMZ	»	ÖLANDA
ESNA	»	HALLVIKEN
ESNB	»	SOLLEFTEÅ
ESNC	»	HEDE/Hedlanda
ESND		SVEG
ESNF	»	ÅVIKEN/Åviken Fly Camp
ESNG		GÄLLIVARE
ESNH	»	HUDIKSVALL
ESNJ	»	JOKKMOKK
ESNK		KRAMFORS-SOLLEFTEÅ
ESNL		LYCKSELE
ESNM	»	OPTAND
ESNN		SUNDSVALL-TIMRÅ
ESNO		ÖRNSKÖLDSVIK
ESNP	»	PITEÅ
ESNQ		KIRUNA
ESNR	»	ORSA
ESNS		SKELLEFTEÅ
ESNU		UMEÅ
ESNV		VILHELMINA
ESNX		ARVIDSJAUR
ESNY	»	SÖDERHAMN

Indicator		Location
ESNZ		ÅRE ÖSTERSUND
ESOE		ÖREBRO
ESOH		HAGFORS
ESOK		KARLSTAD
ESOL	»	STORVIK/Lemstanäs
ESOR		Flygräddningscentral/ Aeronautical Rescue Co-ordination Centre (ARCC)
ESOS		STOCKHOLM ACC
ESOW		STOCKHOLM/Västerås
ESPA		LULEÅ/Kallax
ESPE		VIDSEL
ESPF		StriC N
ESQO	»	ARBOGA
ESSA		STOCKHOLM/Arlanda
ESSB		STOCKHOLM/Bromma
ESSC	»	ESKILSTUNA/Ekeby
ESSD		BORLÄNGE
ESSE	»	STOCKHOLM/Skå-Edeby
ESSF	»	HULTSFRED-VIMMERBY
ESSG	»	LUDVIKA
ESSI	»	VISINGSÖ
ESSK	»	GÄVLE
ESSL		LINKÖPING/Saab
ESSM	»	BRATTFORSHEDEN
ESSN	»	NORRTÄLJE
ESSP		NORRKÖPING/Kungsängen
ESSR		RTC STOCKHOLM
ESSS		AFTN-central/AFTN-centre
ESST		TORSBY
ESSU		ESKILSTUNA
ESSV		VISBY
ESSW	»	VÄSTERVIK
ESSX	»	VÄSTERÅS/Johannisberg
ESSZ	»	GNESTA/Vängsö
ESTA		ÄNGELHOLM
ESTF	»	FJÄLLBACKA
ESTL		LJUNGBYHED
ESTT	»	VELLINGE
ESUB	»	ARBRÅ
ESUD	»	STORUMAN
ESUE	»	IDRE
ESUG	»	GARGNÄS
ESUH	»	HÄRNÖSAND/Myran
ESUI	»	MELLANSEL
ESUJ	»	ÅNGE/Tälje
ESUL	»	LJUSDAL

Indicator		Location
ESUM	»	MOHED
ESUO	»	OVIKEN
ESUP		PAJALA
ESUR	»	RAMSELE
ESUS	»	ÅSELE
ESUT		HEMAVAN TÄRNABY
ESUV	»	ÄLVSBYN
ESUY	»	EDSBYN
ESVA	»	AVESTA
ESVB	»	BUNGE
ESVE	»	STEGEBORG

Indicator		Location
ESVG	»	GAGNEF
ESVH	»	HÄLLEFORS
ESVK	»	KATRINEHOLM
ESVL	»	ENKÖPING/Långtora
ESVM	»	MALUNG/Skinnlanda
ESVQ	»	KÖPING
ESVS	»	SILJANSNÄS
ESWI		Sveriges Meteorologiska och Hydrologiska Institut, SMHI/ Swedish Meteorological and Hydrological Institute

3.3 Flygtrafikledningstjänster (ATS)

1 Ansvarig myndighet

Ansvarig myndighet för flygtrafikledningen är Transportstyrelsen.

Postal address: Transportstyrelsen
SE-601 73 Norrköping
Telephone: +46 (0)771 503 503
Fax: +46 (0)11 18 52 56
E-mail: transportstyrelsen@transportstyrelsen.se
AFS address: ESALYAYX
Website: www.transportstyrelsen.se

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

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

2 Geografiskt ansvarsområde

Flygtrafikledningstjänst utövas inom Sweden FIR.

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

3 Serviceutbud

Övervakningstjänst ingår som integrerad del av ATS-systemet.

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

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

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

4 Samordning mellan flygtrafikledningsenheter och flygoperatörer

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

5 Lägsta flyghöjd

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

3.3 Air traffic services (ATS)

1 Responsible authority

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

Postal address: Transportstyrelsen
SE-601 73 Norrköping
Telephone: +46 (0)771 503 503
Fax: +46 (0)11 18 52 56
E-mail: transportstyrelsen@transportstyrelsen.se
AFS address: ESALYAYX
Website: www.transportstyrelsen.se

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

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

2 Geographical area of responsibility

Air traffic services are provided in Sweden FIR.

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

3 Types of services

Surveillance service is an integral part of the ATS system.

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

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

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

4 Co-ordination between ATS and operators

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

5 Minimum flight altitude

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

b) Inom ”L3” CTA är lägsta IFR-marschhöjd 4000 ft AMSL. Lägsta användbara flygnivå fastställs av vederbörande ATS-enhet.

c) Ovanstående fritar inte befälhavaren från skyldigheten att försäkra sig om att föreskriven vertikal hinderfrihet föreligger i varje skede av flygningen, om inte luftfartyget radarleds. Jfr ICAO Doc 4444 PANS-ATM 4.10.3 note 3.

d) Beträffande ”lägsta vektoreringshöjd”, se ENR 1.6 mom 2.4.

b) Within ”L3 ”CTA the minimum IFR cruising level is 4000 ft AMSL. The lowest usable flight level is determined by the appropriate ATS unit.

c) The above does not relieve the pilot-in-command of his responsibility to ensure that adequate terrain clearance will exist at all times, except when an IFR flight is vectored by radar (cf. ICAO Doc 4444 PANS-ATM 4.10.3 note 3).

d) As regards ”minimum vectoring altitude ”, see ENR 1.6 para 2.4.

6 Flygtrafikledningens adresslista / ATS units address list

Unit name/service	Postal address	Telephone	Fax	AFS
ARVIDSJAUR TWR/AFIS	Arvidsjaur Flygplats AB Flygtrafikledningen Flygplatsen SE-933 91 Arvidsjaur	+46 (0)960 173 85	+46 (0)960 133 38	ESNXZTZX
BORLÄNGE TWR	ACR Dala Airport AB Överstevägen 50 SE-784 63 Borlänge	+46 (0)243 645 20		ESSDZTZX
ESKILSTUNA AFIS	Eskilstuna flygplats c/o Nordflyg SE-635 06 Eskilstuna	+46 (0)16 940 20	+46 (0)16 940 90	ESSUZTZX
GÄLLIVARE AFIS	Trafikledningen Box 92 SE-972 21 Gällivare	+46 (0)970 780 20	+46 (0)970 780 21	ESNGZTZX
GÖTEBORG APP	LFV Flygtrafikledningen SE-438 80 Landvetter	+46 (0)31 94 11 44	+46 (0)31 94 62 20	ESGGYHYX
GÖTEBORG/Landvetter TWR	LFV Flygtrafikledningen SE-438 80 Landvetter	+46 (0)31 94 11 39	+46 (0)31 94 65 94	ESGGZTZX
GÖTEBORG/Säve TWR	ACR Flygtrafikledningen Holmvägen 100 SE-417 46 Göteborg	+46 (0)31 55 23 10		
HAGFORS AFIS	ATS Hagfors Flygplatsvägen 13 SE-683 93 Råda	+46 (0)563 603 68 +46 (0)563 601 75		ESOHZTZX
HAGSHULT TWR	Flygtrafikledningen HAG Blekinge flygflottilj, F17 Box 502 SE-372 25 Ronneby	+46 (0)454 47 15 54		ESMVZTZX
HALMSTAD TWR	FMTS/Flygtrafikledningen Box 516 SE-301 80 Halmstad	+46 (0)35 18 26 50	+46 (0)35 15 75 07	ESMTZTZX
HEMAVAN AFIS	Hemavan Tärnaby Airport Älvstigen 20 SE-920 66 Hemavan	+46 (0)954 305 30		ESUTZTZX
JÖNKÖPING TWR	ACR Flygtrafikledningen Jönköpings flygplats SE-555 93 Jönköping	+46 (0)36 31 12 20	+46 (0)36 731 51	ESGJZTZX
KALMAR TWR	ACR Flygtrafikledningen Kalmar flygplats SE-392 41 Kalmar	+46 (0)10 357 48 33		ESMQZTZX

Unit name/service	Postal address	Telephone	Fax	AFS
KARLSBORG TWR	LFV ATS Karlsborg Flygplatsen PL19 SE-546 83 Karlsborg	+46 (0)505 45 10 50 +46 (0)505 45 10 17	+46 (0)505 45 10 58	ESIAZTZX
KARLSTAD TWR	ACR Flygtrafikledningen SE-655 91 Karlstad	+46 (0)54 55 60 76		ESOKZTZX
KIRUNA TWR	LFV Box 918 SE-195 05 Arlandastad E-mail: atskiruna@lfv.se	+46 (0)8 511 886 14		ESNQZTZX
KRAMFORS AFIS	Höga kusten Airport Gistgårdsön 2150 SE-870 52 Nyland	+46 (0)612 223 55	+46 (0)612 71 81 22	ESNKZTZX
KRISTIANSTAD TWR	ACR Kristianstad Airport AB Flygtrafikledningen Kristianstad flygplats SE-297 92 Everöd	+46 (0)44 23 88 58	+46 (0)44 23 88 78	ESMKZTZX
LINKÖPING/Malmen TWR	LFV Flygtrafikledningen SE-581 98 Linköping	+46 (0)13 28 35 90 +46 (0)13 28 30 00	+46 (0)13 28 36 99	ESCFZTZX
LINKÖPING/Saab TWR	RTC Sundsvall/SDATS Midlandavägen 14 SE-861 41 Sörberge E-mail: ats.saab@saabgroup.com	+46 (0)60 19 75 13		ESSLZTZX
LJUNGBYHED TWR	ACR Flygtrafikledningen Drottningvägen 3 SE-264 51 Ljungbyhed E-mail: ats.ljungbyhed@acr-sweden.se	+46 (0)435 44 03 57 +46 (0)435 44 55 13		ESTLZTZX
LULEÅ/Kallax TWR	LFV ATS F21 SE-971 73 Luleå	+46 (0)920 23 63 29 +46 (0)920 23 49 32	+46 (0)920 23 49 39	ESPAZTZX
LYCKSELE AFIS	Lycksele Airport AB SE-921 81 Lycksele E-mail: ats@lyckseleairport.se	+46 (0)950 275 51 +46 (0)950 275 60		ESNLZTZX
MALMÖ ACC Marked (+) to be used only for relevant ATS messages, i.e. FPL, DEP and closing of flight plan.	LFV Flygtrafikledningen Box 54 SE-230 32 Malmö-Sturup	+46 (0)40 613 24 00 +46 (0)40 28 34 00 +46 (0)40 613 24 05 (+) +46 (0)40 28 34 05 (+)	+46 (0)40 50 02 54	ESMMZRZX ESMMZQZX (+) ESMMZFZX (+)
MALMÖ/Sturup TWR	LFV Box 918 SE-195 05 Arlandastad E-mail: ats.esms@lfv.se	+46 (0)40 613 15 50 +46 (0)40 613 10 00		ESMSZTZX
MORA/Siljan AFIS	Mora Siljan flygplats Mora Airport SE-792 91 Mora E-mail: ats.mora@acr-sweden.se	+46 (0)250 393 10 +46 (0)250 393 11		ESKMZTZX
NORRKÖPING/Kungsängen TWR	ACR Flygtrafikledningen Norrköping Flygplats SE-603 61 Norrköping	+46 (0)11 14 02 00	+46 (0)11 14 54 10	ESSPZTZX
PAJALA AFIS	Pajala Airport Flygtrafikledningen SE-984 91 Pajala	+46 (0)978 129 61		ESUPZTZX

Unit name/service	Postal address	Telephone	Fax	AFS
RONNEBY TWR	Blekinge flygflottilj, F17 Box 502 SE-372 25 Ronneby	+46 (0)457 47 15 55	+46 (0)457 47 15 56	ESDFZTZX
SKELLEFTEÅ TWR	ACR Flygtrafikledningen Skellefteå Flygplats SE-931 92 Skellefteå	+46 (0)910 576 90	+46 (0)910 841 00	ESNSZTZX
STOCKHOLM ACC Marked (+) to be used only for relevant ATS messages, i.e. FPL, DEP and closing of flight plan.	LFV Flygtrafikledningen SE-190 45 Stockholm-Arlanda	+46 (0)8 585 547 00 +46 (0)8 585 547 01 +46 (0)8 585 545 05 (+) +46 (0)8 594 926 96 (+)	+46 (0)8 593 619 00	ESOSZRZX ESOSZQZX (+) ESOSZFZX (+)
STOCKHOLM/Arlanda TWR	LFV Flygtrafikledningen SE-190 45 Stockholm-Arlanda	+46 (0)8 594 922 50 +46 (0)8 797 60 00	+46 (0)8 593 627 23	ESSAZTZX
STOCKHOLM/Bromma TWR	LFV Flygtrafikledningen Bromma Stockholm Airport SE-168 67 Bromma	+46 (0)8 797 68 61 +46 (0)8 28 87 22		ESSBZTZX
STOCKHOLM/Flight Planning Centre AIS/ARO/NOF	LFV FPC/NOF Box 115 SE-190 46 Stockholm-Arlanda	+46 (0)8 797 63 40 +46 (0)8 797 63 38	+46 (0)8 593 601 79	ESSAZPZX ESSAYNYX
STOCKHOLM/Skavsta TWR	ACR Flygtrafikledningen Stockholm Skavsta flygplats AB Box 44 SE-611 22 Nyköping	+46 (0)155 28 04 20 +46 (0)155 28 04 23	+46 (0)155 28 04 86	ESKNZTZX
STOCKHOLM/Västerås TWR	Västerås flygplats AB Flygtrafikledningen Västerås flygplats SE-721 31 Västerås	+46 (0)21 80 00 20	+46 (0)21 80 13 20	ESOWZTZX
SUNDSVALL-TIMRÅ TWR	RTC Sundsvall/SDATS Midlandavägen 14 SE-861 41 Sörberge E-mail: ats.sundsvall@saabgroup.com	+46 (0)60 19 75 07		ESNNZTZX
SVEG AFIS	Härjedalens kommun Härjedalen Sveg Airport SE-842 80 Sveg	+46 (0)680 71 13 50	+46 (0)680 131 30	ESNDZTZX
SÅTENÄS TWR	Skaraborgs flygflottilj, F7 SE-530 32 Såtenäs	+46 (0)510 804 90 +46 (0)510 47 70 00	+46 (0)510 47 73 39	ESIBZTZX
SÄLEN TWR	RTC Sundsvall/SDATS Midlandavägen 14 SE-861 41 Sörberge E-mail: ats.salen@saabgroup.com	+46(0)60 19 75 04		ESKSZTZX
TORSBY AFIS	Torsby Flygplats Vasserudsvägen 3 SE-685 34 Torsby	+46 (0)560 717 24	+46 (0)560 143 99	ESSTZTZX
TROLLHÄTTAN-VÄNERSBORG TWR	ACR Flygtrafikledningen Trollhättan-Vänersborg flygplats SE-461 93 Trollhättan	+46 (0)520 42 93 61	+46 (0)520 173 57	ESGTZTZX
UMEÅ TWR	LFV Box 918 SE-195 05 Arlandastad E-mail: ats.umea@lfv.se	+46 (0)8 511 886 20		ESNUZTZX

Unit name/service	Postal address	Telephone	Fax	AFS
UPPSALA TWR	LFV Flygtrafikledningen LSS Box 645 SE-751 27 Uppsala E-mail: ats.uppsala@lfv.se	+46 (0)18 19 60 72 +46 (0)18 19 60 73	+46 (0)18 19 60 79	ESCMZTZX
VIDSEL TWR	LFV Flygtrafikledningen RFN SE-942 23 Vidsel	+46 (0)929 360 25 +46 (0)929 370 00	+46 (0)929 374 73	ESPEZTZX
VILHELMINA AFIS	Vilhelmina flygplats ATS Sagadal 4 SE-912 90 Vilhelmina	+46 (0)940 310 09	+46 (0)940 398 98	ESNVZTZX
VISBY TWR	LFV Flygtrafikledningen Visby flygplats SE-621 41 Visby	+46 (0)498 26 31 42 +46 (0)498 21 23 49	+46 (0)498 27 13 65	ESSVZTZX
VÄXJÖ/Kronoberg TWR	ACR Flygtrafikledningen Växjö flygplats SE-355 93 Växjö	+46 (0)470 75 85 30	+46 (0)470 75 85 39	ESMXZTZX
ÄNGELHOLM TWR	ACR Flygtrafikledningen Fibulavägen 14, Valhall Park SE-262 74 Ängelholm E-mail: ats.angelholm@acr-sweden.se	+46 (0)431 202 14 +46 (0)431 48 45 50		ESTAZTZX
ÖREBRO TWR	ACR Flygtrafikledningen Örebro Bofors flygplats SE-705 94 Örebro	+46 (0)19 30 70 08	+46 (0)19 30 70 06	ESOEZTZX
ÖRNSKÖLDSVIK TWR	RTC Sundsvall/SDATS Midlandavägen 14 SE-861 41 Sörberge E-mail: ats.ornskoldsvik@saabgroup.com	+46 (0)60 19 75 05		ESNOZTZX
ÖSTERSUND TWR	LFV Box 918 SE-195 05 Arlandastad E-mail: ats.ostersund@lfv.se	+46 (0)8 511 886 17		ESNZZTZX
ÖSTGÖTA APP	Norrköping flygplats LFV/ATS ÖKC SE-603 61 Norrköping E-mail : okc@lfv.se	+46 (0)11 19 28 14	+46 (0)11 14 54 16	ESSPYHYX

DEL 2 – EN-ROUTE (ENR) – PART 2

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11.3 ATC tillhandahåller övervakningstjänst och navigeringshjälp, när navigeringshjälpmedel/ RNAV-system är ur funktion/otillräckliga till dess att egennavigering åter kan ske, samt på begäran.
Inom svenska fjällområdet, se ENR 1.1.14, finns områden med otillräcklig VOR-täckning för att stödja RNAV 5 (B-RNAV)

11.3 ATC will provide surveillance services and navigational assistance when navigation aids/RNAV-systems are unserviceable/insufficient until own navigation can be resumed, and on request. There are areas within the Swedish mountainous area, see ENR 1.1.14, with insufficient VOR coverage to support RNAV 5 (B-RNAV).

11.4 När klarering erhållits för flygning som berör restriktionsområde inom kontrollerat luftrum, behöver särskilt tillstånd att passera detta område inte inhämtas.

11.4 When a clearance has been obtained penetrating a restricted area within controlled airspace, special permission to cross this area is not required.

11.5 Beträffande krav på SSR-transponder, se GEN 1.5.

11.5 As regards mandatory carriage of SSR transponder, see GEN 1.5.

11.6 Om det framgår av inlämnad färdplan att luftfartyg önskar gå direkt (det vill säga ej via publicerade ut- eller inpasseringspunkter i TMA), eller om luftfartyget så begär per radio, kommer klarering inom kontrollerat luftrum att lämnas i enlighet därmed om trafiken så medger, även om stigning till eller nedgång från SUECIA CTA då kan komma att utföras delvis utanför kontrollerat luftrum. Trafikinformation lämnas för den del av flygningen som sker utanför kontrollerat luftrum.

11.6 If indicated in the filed flight plan that an aircraft is requesting a direct route (i.e. not via published exit or entry points in TMA), or if so requested by the aircraft by radio, the aircraft will be cleared accordingly with an ATC clearance for controlled airspace if traffic permitting. This applies even if the climb to or descent from SUECIA CTA may partly be carried out outside controlled airspace. Traffic Information will be provided for the portion of the flight that is outside controlled airspace.

12 Tillstånd till motorstart

12.1 För att underlätta flygtrafikledningstjänsten och minska väntning på marken med gående motorer tillråds avgående turbindrivna luftfartyg att inhämta tillstånd till motorstart från TWR.

Anm. Vid vissa flygplatser är förfarandet obligatoriskt.

12 Permission for engine start-up

12.1 In order to facilitate air traffic service and minimize ground holding with running engines, departing turbine engine aircraft are recommended to obtain permission for engine startup from TWR.

Note. At some aerodromes, this procedure is compulsory.

13 Flygning inom RVSM-luftrum

13.1 Flygning som utförs som allmän flygtrafik (GAT) inom RVSM-luftrum skall utföras enligt IFR, om inte annat medgivits av Transportstyrelsen inom tillfälligt reserverat område som inte är tillgängligt för IFR-flygningar (se ENR 1.2).

13 Flight within RVSM airspace

13.1 Flights operating as General Air Traffic (GAT) within RVSM airspace shall be conducted in accordance with IFR unless otherwise authorized by the Swedish Transport Agency within a temporarily reserved area not available to IFR flights (see ENR 1.2).

14 Nödplané

14.1 Om ett luftfartyg under en kontrollerad flygning råkar ut för plötslig dekompression eller ett annat fel som kräver nödplané, ska den som framför luftfartyget om möjligt:

a) ansätta sväng bort från den tilldelade flygvägen eller färdlinjen innan nödplanén påbörjas,

b) snarast möjligt informera berörd flygtrafikledningsenhet om nödplanén,

c) ställa in transpondern på kod 7700 och, om så är tillämpligt, ställa in moden för trängande situation på systemet för automatisk beroende positionsövervakning / datalänk-förbindelse mellan flygledare och pilot (ADS/CPDLC),

d) tända yttre ljus på luftfartyget,

e) hålla utkik efter konfliktande trafik både visuellt och med hjälp av ACAS, och

f) samordna sina ytterligare avsikter med berörd flygtrafik-ledningsenhet.

14.2 Luftfartyget får lägst sjunka till en säker minimiflyghöjd.

14 Emergency descent

14.1 When an aircraft operated as a controlled flight experiences sudden decompression or a malfunction requiring an emergency descent, the aircraft shall, if able:

a) initiate a turn away from the assigned route or track before commencing the emergency descent;

b) advise the appropriate air traffic services unit as soon as possible of the emergency descent;

c) set transponder to Code 7700 and select the Emergency Mode on the automatic dependent surveillance/controller-pilot data link communications (ADS/CPDLC) system, if applicable;

d) turn on aircraft exterior lights;

e) watch for conflicting traffic both visually and by reference to ACAS (if equipped); and

f) coordinate its further intentions with the appropriate ATS unit.

14.2 The aircraft shall not descend below the safe minimum altitude.

14.3 Den som framför ett luftfartyg och som via en flygtrafikledningsenhet får information om att ett luftfartyg genomför en nödplané i närheten ska lyssna noga på informationen då den kan innehålla instruktioner om att vidta särskilda åtgärder eller instruktioner om att fortsätta följa redan gällande klarering. Om flygtrafikledningsenheten inte ger några instruktioner ska luftfartyget lämna området och passa frekvensen för ytterligare klareringar eller instruktioner.

14.3 An aircraft, receiving a message from an ATS concerning an on-going emergency descent in the vicinity, shall carefully note instructions for specific actions to be taken or instruction to continue in accordance with their current clearances. In the absence of specific instructions the aircraft shall clear the area on their own initiative and keep a watch on the frequency for further clearances or instructions.

15 Område ej tillgängligt för färdplanering (NPZ)

a) NPZ finns publicerat inom ESAA FIR.

b) Ett NPZ är en definierad luftvolym där det inom avsett område inte är tillåtet att färdplanera, alternativt endast är tillåtet att färdplanera i undantagsfall om så finns beskrivet.

c) Luftrumsbrukare kan undvika ett sådant område genom att färdplanera via lämpliga signifikanta punkter runt området. Färdplanering genom ett NPZ kommer att generera ett ”reject-meddelande” från IFPS, förutom vid de tillfällen då en färdplan uppfyller publicerade villkor om sådana finns för avsett område. Om inga villkor finns publicerade för ett specifikt NPZ så är området inte tillgängligt för färdplanering.

15 Non-standard Planning Zone (NPZ) for flight planning

a) NPZ are published within the airspace of ESAA FIR.

b) NPZ is a defined airspace volume within which the planning of DCT trajectories is either not allowed or allowed only for exceptions if described.

c) Airspace users can avoid these areas by flight planning via appropriate significant points around the NPZ. Flight planning through the relevant NPZ will cause a reject message by IFPS except where flight plan complies with the conditions published for a given NPZ. If no condition/exceptions are defined then an area defined by a given NPZ is completely unavailable in the flight planning process.

Terminal Control Areas		**ATS Airspace Classification. Ref ENR 1.4**	
Name	Lateral limits	Vertical limits	ATC unit Channel/FREQ Callsign
Göteborg TMA a Established H24	581511N 0120519E - 580659N 0122114E - 580629N 0124706E - 572710N 0124550E - 572009N 0123239E - 571249N 0113458E - 574505N 0110826E - 580740N 0112701E - 581511N 0120519E	4500 ft AMSL ——————— 2500 ft AMSL Class C	GÖTEBORG APP 124.680 GÖTEBORG APPROACH GÖTEBORG APP 124.205 GÖTEBORG APPROACH
Göteborg TMA b Established H24	580414N 0114706E - 575054N 0123641E - 574149N 0123111E - 572829N 0122951E - 572659N 0120451E - 573113N 0113924E - 574629N 0113121E - 575559N 0113351E - 580414N 0114706E	2500 ft AMSL ——————— 1500 ft AMSL Class C	GÖTEBORG APP 124.680 GÖTEBORG APPROACH GÖTEBORG APP 124.205 GÖTEBORG APPROACH
Part of GÖTEBORG TMA Established H24	584558N 0122951E - 584358N 0130950E - 583101N 0131928E - 581743N 0131928E - 580549N 0131637E - 580601N 0130745E - 580629N 0124706E - 580659N 0122114E - 581511N 0120519E - 581759N 0115951E - 582755N 0115951E - 583844N 0121744E - 584558N 0122951E	FL 095 ——————— 4500 ft AMSL Class C	When Såtenäs APP open: SÅTENÄS APP 134.550 SÅTENÄS APPROACH When Såtenäs APP open: SÅTENÄS APP 123.000 SÅTENÄS APPROACH When Såtenäs APP closed: GÖTEBORG APP 124.680 GÖTEBORG APPROACH When Såtenäs APP closed: GÖTEBORG APP 124.205 GÖTEBORG APPROACH
Sector Såtenäs Established during operational hours of SÅTENÄS TWR	584558N 0122951E - 584358N 0130950E - 583101N 0131928E - 581743N 0131928E - 580549N 0131637E - 580601N 0130745E - 583844N 0121744E - 584558N 0122951E	4500 ft AMSL ——————— 1500 ft AMSL Class C	When Såtenäs APP open: SÅTENÄS APP 134.550 SÅTENÄS APPROACH When Såtenäs APP open: SÅTENÄS APP 123.000 SÅTENÄS APPROACH Reduced radio coverage below sector Såtenäs. 124.680 to be used in uncontrolled airspace.
Sector Trollhättan Established during operational hours of TROLLHÄTTAN TWR and/or SÅTENÄS TWR/APP	583844N 0121744E - 580601N 0130745E - 580629N 0124706E - 580659N 0122114E - 581511N 0120519E - 581759N 0115951E - 582755N 0115951E - 583844N 0121744E	4500 ft AMSL ——————— 1500 ft AMSL Class C	When Såtenäs closed: TROLLHÄTTAN-VÄNERSBORG TWR 122.730 TROLLHÄTTAN TOWER When Såtenäs APP open: SÅTENÄS APP 134.550 SÅTENÄS APPROACH When Såtenäs APP open: SÅTENÄS APP 123.000 SÅTENÄS APPROACH
HAGSHULT TMA	573901N 0142513E - 572815N 0144759E - 572854N 0145134E - 565959N 0142529E - 565241N 0140438E - 565520N 0135039E - 570629N 0132837E - 573901N 0142513E		

Terminal Control Areas			ATS Airspace Classification. Ref ENR 1.4
Name	Lateral limits	Vertical limits	ATC unit Channel/FREQ Callsign
Hagshult TMA a Established during operational hours of HAGSHULT TWR.	573901N 0142513E - 572815N 0144759E - 565520N 0135039E - 570629N 0132837E - 573901N 0142513E	FL 095 ——— 2000 ft AMSL Class C	HAGSHULT APP 121.150 HAGSHULT APPROACH
Hagshult TMA b Established during operational hours of HAGSHULT TWR.	572854N 0145134E - 565959N 0142529E - 565241N 0140438E - 565520N 0135039E - 572815N 0144759E - 572854N 0145134E	FL 095 ——— 4500 ft AMSL Class C	HAGSHULT APP 121.150 HAGSHULT APPROACH
HALMSTAD TMA	570718N 0132556E - 570027N 0133048E - 564535N 0131450E - 564013N 0130908E - 563520N 0130414E - 562836N 0125732E - 562617N 0124601E - 562755N 0123723E - 563303N 0123406E - 563704N 0123314E - 563904N 0123249E - 565642N 0123855E - 570315N 0130746E - 570718N 0132556E		
Halmstad TMA a Established during operational hours of HALMSTAD TWR	570315N 0130746E - 564013N 0130908E - 563704N 0123314E - 563904N 0123249E - 565642N 0123855E - 570315N 0130746E	FL 095 ——— 2000 ft AMSL Class C	HALMSTAD TWR 135.055 HALMSTAD TOWER
Halmstad TMA b Established during operational hours of HALMSTAD TWR.	570718N 0132556E - 570027N 0133048E - 564535N 0131450E - 564013N 0130908E - 570315N 0130746E - 570718N 0132556E	FL 095 ——— 4500 ft AMSL Class C	HALMSTAD TWR 135.055 HALMSTAD TOWER
Halmstad TMA c Established during operational hours of HALMSTAD TWR.	564013N 0130908E - 563520N 0130414E - 563221N 0124453E - 563303N 0123406E - 563704N 0123314E - 564013N 0130908E	FL 095 ——— 1500 ft AMSL Class C	HALMSTAD TWR 135.055 HALMSTAD TOWER
Sector Laholm Established during operational hours of HALMSTAD TWR and/or ÄNGELHOLM TWR.	563520N 0130414E - 562836N 0125732E - 562617N 0124601E - 562755N 0123723E - 563303N 0123406E - 563221N 0124453E - 563520N 0130414E	FL 095 ——— 1500 ft AMSL Class C	When Ängelholm APP open: ÄNGELHOLM APP 132.455 ÄNGELHOLM APPROACH When Ängelholm APP closed: HALMSTAD TWR 135.055 HALMSTAD TOWER
JÖNKÖPING TMA	580628N 0145053E - 575805N 0145616E - 574251N 0144234E - 573947N 0142841E - 573901N 0142513E - 572551N 0140619E - 571243N 0140312E - 571316N 0134801E - 573212N 0133626E - 580202N 0135804E - 580351N 0141918E - 580628N 0145053E		
Jönköping TMA a Established during operational hours of JÖNKÖPING TWR.	580351N 0141918E - 575313N 0142711E - 573947N 0142841E - 573901N 0142513E - 572551N 0140619E - 573212N 0133626E - 580202N 0135804E - 580351N 0141918E	FL 095 ——— 2200 ft AMSL Class C	JÖNKÖPING TWR 118.255 JÖNKÖPING TOWER
Jönköping TMA b Established during operational hours of JÖNKÖPING TWR.	580628N 0145053E - 575805N 0145616E - 574251N 0144234E - 573947N 0142841E - 575313N 0142711E - 580351N 0141918E - 580628N 0145053E	FL 095 ——— 4500 ft AMSL Class C	JÖNKÖPING TWR 118.255 JÖNKÖPING TOWER

Terminal Control Areas		**ATS Airspace Classification. Ref ENR 1.4**	
Name	Lateral limits	Vertical limits	ATC unit Channel/FREQ Callsign
Jönköping TMA c Established during operational hours of JÖNKÖPING TWR.	573212N 0133626E - 572551N 0140619E - 571243N 0140312E - 571316N 0134801E - 573212N 0133626E	FL 095 ——— 4500 ft AMSL Class C	JÖNKÖPING TWR 118.255 JÖNKÖPING TOWER
KALMAR TMA	571324N 0161129E - 571258N 0162807E - 565748N 0163414E - 564202N 0164030E - 562959N 0163949E - 562412N 0161932E - 562309N 0160529E - 563930N 0155030E - 565844N 0155539E - 571324N 0161129E		
Kalmar TMA a Established during operational hours of KALMAR TWR.	565844N 0155539E - 565748N 0163414E - 564202N 0164030E - 562959N 0163949E - 562412N 0161932E - 562309N 0160529E - 563930N 0155030E - 565844N 0155539E	FL 095 ——— 1500 ft AMSL Class C	KALMAR TWR 130.805 KALMAR TOWER
Kalmar TMA b Established during operational hours of KALMAR TWR.	571324N 0161129E - 571258N 0162807E - 565748N 0163414E - 565844N 0155539E - 571324N 0161129E	FL 095 ——— 4500 ft AMSL Class C	KALMAR TWR 130.805 KALMAR TOWER
KARLSBORG TMA Established during operational hours of KARLSBORG TWR.	584942N 0144748E - 584448N 0145858E - 584028N 0151439E - 582539N 0150225E - 581435N 0140950E - 583056N 0135333E - 584317N 0143246E - 584942N 0144748E	FL 095 ——— 1700 ft AMSL Class C	KARLSBORG APP 132.050 KARLSBORG APPROACH
KARLSTAD TMA	594712N 0141205E - 593915N 0141736E - 592542N 0135750E - 590702N 0131930E - 585435N 0130505E - 585617N 0124950E - 591328N 0125433E - 593117N 0130125E - 594634N 0132532E - 594644N 0133537E - 594712N 0141205E		
Karlstad TMA a Established during operational hours of KARLSTAD TWR.	594644N 0133537E - 592542N 0135750E - 590702N 0131930E - 591328N 0125433E - 593117N 0130125E - 594634N 0132532E - 594644N 0133537E	FL 095 ——— 2000 ft AMSL Class C	KARLSTAD TWR 119.455 KARLSTAD TOWER
Karlstad TMA b Established during operational hours of KARLSTAD TWR.	594712N 0141205E - 593915N 0141736E - 592542N 0135750E - 594644N 0133537E - 594712N 0141205E	FL 095 ——— 4500 ft AMSL Class C	KARLSTAD TWR 119.455 KARLSTAD TOWER
Karlstad TMA c Established during operational hours of KARLSTAD TWR.	591328N 0125433E - 590702N 0131930E - 585435N 0130505E - 585617N 0124950E - 591328N 0125433E	FL 095 ——— 4500 ft AMSL Class C	KARLSTAD TWR 119.455 KARLSTAD TOWER
KIRUNA TMA	680943N 0202356E - 675924N 0204844E - 674725N 0205444E - 673055N 0205504E - 672355N 0205504E - 671955N 0202944E - 672125N 0195945E - 673224N 0195506E - 674455N 0194945E - 675125N 0200220E - 675906N 0200447E - 680943N 0202356E		
Kiruna TMA a Established during operational hours of KIRUNA TWR.	680943N 0202356E - 675924N 0204844E - 674725N 0205444E - 673055N 0205504E - 673224N 0195506E - 674455N 0194945E - 675125N 0200220E - 675906N 0200447E - 680943N 0202356E	FL 095 ——— 3100 ft AMSL Class C	KIRUNA TWR 130.155 KIRUNA TOWER

Terminal Control Areas		**ATS Airspace Classification. Ref ENR 1.4**	
Name	Lateral limits	Vertical limits	ATC unit Channel/FREQ Callsign
Kiruna TMA b Established during operational hours of KIRUNA TWR.	673224N 0195506E - 673055N 0205504E - 672355N 0205504E - 671955N 0202944E - 672125N 0195945E - 673224N 0195506E	FL 095 ——— 4500 ft AMSL Class C	KIRUNA TWR 130.155 KIRUNA TOWER
KRISTIANSTAD TMA	562838N 0141915E - 561255N 0142349E - 554039N 0141741E - 553734N 0140107E - 554216N 0134806E - 555123N 0135002E - 560000N 0135152E - 561316N 0135444E - 562837N 0135603E - 562838N 0141915E		
Kristianstad TMA a Established during operational hours of KRISTIANSTAD TWR.	561316N 0135444E - 561255N 0142349E - 554039N 0141741E - 561316N 0135444E	FL 095 ——— 1700 ft AMSL Class C	KRISTIANSTAD TWR 129.355 KRISTIANSTAD TOWER
Kristianstad TMA b Established during operational hours of KRISTIANSTAD TWR.	561316N 0135444E - 554039N 0141741E - 553734N 0140107E - 554216N 0134806E - 555123N 0135002E - 560000N 0135152E - 561316N 0135444E	FL 065 ——— 1700 ft AMSL Class C	KRISTIANSTAD TWR 129.355 KRISTIANSTAD TOWER
Kristianstad TMA c Established during operational hours of KRISTIANSTAD TWR.	562838N 0141915E - 561255N 0142349E - 561316N 0135444E - 562837N 0135603E - 562838N 0141915E	FL 095 ——— 4500 ft AMSL Class C	KRISTIANSTAD TWR 129.355 KRISTIANSTAD TOWER
KRONOBERG TMA	572854N 0145134E - 572654N 0150607E - 571416N 0151011E - 571009N 0150427E - 570704N 0150009E - 564126N 0144750E - 563803N 0143201E - 563544N 0142120E - 563027N 0140950E - 563641N 0135531E - 565241N 0140438E - 565959N 0142529E - 571339N 0143743E - 572854N 0145134E		
Kronoberg TMA a Established during operational hours of KRONOBERG TWR.	571339N 0143743E - 571009N 0150427E - 570704N 0150009E - 564126N 0144750E - 563803N 0143201E - 564917N 0142426E - 565959N 0142529E - 571339N 0143743E	FL 095 ——— 2000 ft AMSL Class C	VÄXJÖ/Kronoberg TWR 118.155 KRONOBERG TOWER
Kronoberg TMA b Established during operational hours of KRONOBERG TWR.	572854N 0145134E - 572654N 0150607E - 571416N 0151011E - 571009N 0150427E - 571339N 0143743E - 572854N 0145134E	FL 095 ——— 4500 ft AMSL Class C	VÄXJÖ/Kronoberg TWR 118.155 KRONOBERG TOWER
Kronoberg TMA c Established during operational hours of KRONOBERG TWR.	565959N 0142529E - 564917N 0142426E - 563803N 0143201E - 563544N 0142120E - 563027N 0140950E - 563641N 0135531E - 565241N 0140438E - 565959N 0142529E	FL 095 ——— 4500 ft AMSL Class C	VÄXJÖ/Kronoberg TWR 118.155 KRONOBERG TOWER
LJUNGBYHED TMA	561920N 0132444E - 560036N 0134327E - 555452N 0133115E - 555530N 0132750E - 555608N 0130626E - 555834N 0125156E - 561148N 0124828E - 561920N 0132444E		
Ljungbyhed TMA a Established during operational hours of LJUNGBYHED TWR.	561920N 0132444E - 560036N 0134327E - 560337N 0130246E - 560722N 0131030E - 561920N 0132444E	FL 065 ——— 1500 ft AMSL Class C	LJUNGBYHED APP 129.555 LJUNGBYHED APPROACH

Terminal Control Areas			**ATS Airspace Classification. Ref ENR 1.4**
Name	Lateral limits	Vertical limits	ATC unit Channel/FREQ Callsign
Ljungbyhed TMA b Established during operational hours of LJUNGBYHED TWR.	561148N 0124828E - 560514N 0125857E - 560337N 0130246E - 555834N 0125156E - 561148N 0124828E	FL 065 ——— 1500 ft AMSL Class C	LJUNGBYHED APP 129.555 LJUNGBYHED APPROACH
Ljungbyhed TMA c Established during operational hours of LJUNGBYHED TWR.	560337N 0130246E - 560036N 0134327E - 555452N 0133115E - 555530N 0132750E - 555608N 0130626E - 555834N 0125156E - 560337N 0130246E	4500 ft AMSL ——— 1500 ft AMSL Class C	LJUNGBYHED APP 129.555 LJUNGBYHED APPROACH
Sector Klippan Established during operational hours of LJUNGBYHED TWR and/or ÄNGELHOLM TWR.	561920N 0132444E - 560722N 0131030E - 560337N 0130246E - 560514N 0125857E - 561148N 0124828E - 561920N 0132444E	FL 065 ——— 1500 ft AMSL Class C	When Ljungbyhed APP open: LJUNGBYHED APP 129.555 LJUNGBYHED APPROACH When Ljungbyhed APP closed: ÄNGELHOLM APP 132.455 ÄNGELHOLM APPROACH
LULEÅ TMA	660025N 0220244E - 655731N 0220754E - 654636N 0222706E - 652626N 0230143E - 650618N 0223411E - 650411N 0222245E - 650137N 0220919E - 645227N 0215158E - 650454N 0205653E - 651413N 0210918E - 653333N 0211155E - 653622N 0211217E - 655355N 0211444E - 655655N 0212944E - 660025N 0220244E		
Luleå TMA a Established during operational hours of LULEÅ TWR.	654636N 0222706E - 652626N 0230143E - 650618N 0223411E - 650411N 0222245E - 652152N 0214033E - 652808N 0215744E - 653544N 0221854E - 654636N 0222706E	FL 095 ——— 1200 ft AMSL Class C	Kallax APP 125.450 KALLAX APPROACH
Luleå TMA b Established during operational hours of LULEÅ TWR	655731N 0220754E - 654636N 0222706E - 653544N 0221854E - 652808N 0215744E - 652152N 0214033E - 653333N 0211155E - 653622N 0211217E - 655731N 0220754E	FL 095 ——— 1600 ft AMSL Class C	Kallax APP 125.450 KALLAX APPROACH
Luleå TMA c Established during operational hours of LULEÅ TWR	660025N 0220244E - 655731N 0220754E - 653622N 0211217E - 655355N 0211444E - 655655N 0212944E - 660025N 0220244E	FL 095 ——— 2000 ft AMSL Class C	Kallax APP 125.450 KALLAX APPROACH
Luleå TMA d Established during operational hours of LULEÅ TWR.	653333N 0211155E - 652152N 0214033E - 650411N 0222245E - 650137N 0220919E - 651413N 0210918E - 653333N 0211155E	FL 095 ——— 2000 ft AMSL Class C	Kallax APP 125.450 KALLAX APPROACH
Luleå TMA e Established during operational hours of LULEÅ TWR.	651413N 0210918E - 650137N 0220919E - 645227N 0215158E - 650454N 0205653E - 651413N 0210918E	FL 095 ——— 4500 ft AMSL Class C	Kallax APP 125.450 KALLAX APPROACH

Terminal Control Areas			**ATS Airspace Classification. Ref ENR 1.4**
Name	Lateral limits	Vertical limits	ATC unit Channel/FREQ Callsign
MALMÖ TMA	562312N 0122634E - 561920N 0132444E - 561316N 0135444E - 554039N 0141741E - 551726N 0141828E - 551033N 0141000E - 545500N 0141000E - 545500N 0130000E - 551458N 0125956E - 554358N 0130656E - 555834N 0125156E - 555958N 0124356E - 560158N 0124046E - 560158N 0123925E Swedish/Danish border northward to - 560951N 0122624E - 562312N 0122634E		
Malmö TMA a Established H24	554937N 0133636E - 553500N 0133850E - 552620N 0134720E - 550715N 0134720E - 550540N 0125958E - 551458N 0125956E - 554358N 0130656E - 554857N 0130636E - 554937N 0133636E	FL 065 ——— 1500 ft AMSL Class C	MALMÖ ACC 134.980 SWEDEN CONTROL
Malmö TMA b Established H24	560337N 0130246E - 560036N 0134327E - 560000N 0135152E - 555123N 0135002E - 555452N 0133115E - 555530N 0132750E - 555608N 0130626E - 555834N 0125156E - 560337N 0130246E	FL 065 ——— 4500 ft AMSL Class C	MALMÖ ACC 131.280 SWEDEN CONTROL
Malmö TMA c Established H24	555834N 0125156E - 555608N 0130626E - 555530N 0132750E - 555452N 0133115E - 555123N 0135002E - 554216N 0134806E - 552620N 0134720E - 553500N 0133850E - 554937N 0133636E - 554857N 0130636E - 554358N 0130656E - 555834N 0125156E	FL 065 ——— 2500 ft AMSL Class C	MALMÖ ACC 134.980 SWEDEN CONTROL
Malmö TMA d Established H24	552620N 0134720E - 551726N 0141828E - 551033N 0141000E - 545500N 0141000E - 545500N 0130000E - 550540N 0125958E - 550715N 0134720E - 552620N 0134720E	FL 065 ——— 3500 ft AMSL Class C	MALMÖ ACC 134.980 SWEDEN CONTROL
Malmö TMA e Established H24	562312N 0122634E - 561920N 0132444E - 561316N 0135444E - 554039N 0141741E - 551726N 0141828E - 551033N 0141000E - 545500N 0141000E - 545500N 0130000E - 551458N 0125956E - 554358N 0130656E - 555834N 0125156E - 555958N 0124356E - 560158N 0124046E - 560158N 0123925E Swedish/Danish border northward to - 560951N 0122624E - 562312N 0122634E	FL 095 ——— FL 065 Class C	MALMÖ ACC 134.980 SWEDEN CONTROL MALMÖ ACC 131.280 SWEDEN CONTROL
Malmö TMA f Established H24	554216N 0134806E - 553734N 0140107E - 554039N 0141741E - 551726N 0141828E - 552620N 0134720E - 554216N 0134806E	FL 065 ——— 4500 ft AMSL Class C	MALMÖ ACC 134.980 SWEDEN CONTROL
ROENNE TMA Restricted area EK R95 and R96 are situated within TMA Established during operational hours of ROENNE TWR See AIP DENMARK.	551726N 0141828E - 551534N 0142453E clockwise along an arc centred on 550404N 0144448E and with radius 16.2 NM - 545500N 0142127E - 545500N 0141000E - 551033N 0141000E - 551726N 0141828E	FL 095 ——— 4500 ft AMSL Class E	MALMÖ ACC 134.980 SWEDEN CONTROL
Roenne TMA a Established during operational hours of ROENNE TWR See AIP DENMARK.	551726N 0141828E - 551534N 0142453E clockwise along an arc centred on 550404N 0144448E and with radius 16.2 NM - 545500N 0142127E - 545500N 0141000E - 551033N 0141000E - 551726N 0141828E	4500 ft AMSL ——— 3500 ft AMSL Class D	ROENNE TWR 118.330 ROENNE TOWER

Terminal Control Areas		**ATS Airspace Classification. Ref ENR 1.4**	
Name	Lateral limits	Vertical limits	ATC unit Channel/FREQ Callsign
Roenne TMA b Established during operational hours of ROENNE TWR See AIP DENMARK.	A circle with radius 16.2 NM centred on 550404N 0144448E	3500 ft AMSL ——— 1500 ft AMSL Class D	ROENNE TWR 118.330 ROENNE TOWER
RONNEBY TMA Established during operational hours of RONNEBY TWR.	564120N 0150658E - 563930N 0155030E - 562309N 0160529E - 561140N 0153839E - 555430N 0153349E - 555810N 0144850E - 563333N 0145350E - 564120N 0150658E	FL 095 ——— 1500 ft AMSL Class C	RONNEBY APP 128.450 RONNEBY APPROACH
SKELLEFTEÅ TMA	650454N 0205653E - 645227N 0215158E - 645012N 0214745E - 644233N 0214726E - 643842N 0214647E - 642041N 0213112E - 641112N 0212120E - 641628N 0201137E - 642852N 0202028E - 644720N 0203356E - 645046N 0203822E - 650454N 0205653E		
Skellefteå TMA a Established during operational hours of SKELLEFTEÅ TWR.	645046N 0203822E - 644233N 0214726E - 643842N 0214647E - 642041N 0213112E - 642852N 0202028E - 644720N 0203356E - 645046N 0203822E	FL 095 ——— 2000 ft AMSL Class C	SKELLEFTEÅ TWR 122.055 SKELLEFTEÅ TOWER
Skellefteå TMA b Established during operational hours of SKELLEFTEÅ TWR.	642852N 0202028E - 642041N 0213112E - 641112N 0212120E - 641628N 0201137E - 642852N 0202028E	FL 095 ——— 4500 ft AMSL Class C	SKELLEFTEÅ TWR 122.055 SKELLEFTEÅ TOWER
Skellefteå TMA c Established during operational hours of SKELLEFTEÅ TWR.	650454N 0205653E - 645227N 0215158E - 645012N 0214745E - 644233N 0214726E - 645046N 0203822E - 650454N 0205653E	FL 095 ——— 4500 ft AMSL Class C	SKELLEFTEÅ TWR 122.055 SKELLEFTEÅ TOWER
STOCKHOLM TMA Prior Notice required for certain operations within TMA. Types of traffic affected, see AD 2-ESSA para 2.23.	601758N 0181247E - 601558N 0183317E - 595258N 0185049E - 600207N 0191849E - 594025N 0194941E - 593558N 0191625E - 591518N 0185806E - 590231N 0184517E - 584957N 0183222E - 584509N 0182726E - 583459N 0175558E - 583659N 0172725E - 585758N 0172428E - 585843N 0171324E - 590043N 0164228E - 590258N 0161604E - 591926N 0161906E - 594458N 0162648E - 601358N 0173548E - 601758N 0181247E		
Stockholm TMA a Established H24	601758N 0181247E - 600543N 0181447E - 595448N 0180647E - 595156N 0173855E - 601758N 0181247E	FL 095 ——— 1200 ft AMSL Class C	STOCKHOLM APP 123.755 STOCKHOLM APPROACH
Stockholm TMA b Established H24	601758N 0181247E - 601558N 0183317E - 594058N 0185947E - 592422N 0184124E - 592258N 0180948E - 591458N 0180948E - 591458N 0174448E - 591928N 0174448E - 591928N 0174148E - 592158N 0174148E - 592158N 0174448E - 592628N 0174448E - 592628N 0175718E - 592928N 0175748E - 593028N 0174648E - 593328N 0174148E - 594858N 0174648E - 594858N 0181047E - 595448N 0180647E - 600543N 0181447E - 601758N 0181247E	FL 095 ——— 2000 ft AMSL Class C	STOCKHOLM APP 126.655 STOCKHOLM APPROACH

Terminal Control Areas		**ATS Airspace Classification. Ref ENR 1.4**	
Name	Lateral limits	Vertical limits	ATC unit Channel/FREQ Callsign
Stockholm TMA c Established H24	592422N 0184124E - 591248N 0182847E - 590215N 0181025E - 590458N 0180148E - 591458N 0175448E - 591458N 0180948E - 592258N 0180948E - 592422N 0184124E	FL 095 ——— 1500 ft AMSL Class C	STOCKHOLM APP 126.655 STOCKHOLM APPROACH STOCKHOLM APP 120.155 STOCKHOLM APPROACH
Stockholm TMA d Established H24	594158N 0170548E - 593828N 0172148E - 591458N 0172148E - 591458N 0175448E - 590458N 0180148E - 590215N 0181025E - 585530N 0175846E - 590345N 0172148E - 592431N 0165545E - 594158N 0170548E	FL 095 ——— 2000 ft AMSL Class C	STOCKHOLM APP 123.755 STOCKHOLM APPROACH STOCKHOLM APP 120.155 STOCKHOLM APPROACH
Stockholm TMA e Established H24	594552N 0173110E - 593828N 0172148E - 594158N 0170548E - 594552N 0173110E	FL 095 ——— 1200 ft AMSL Class C	STOCKHOLM APP 123.755 STOCKHOLM APPROACH
Stockholm TMA f Established H24	595448N 0180647E - 594858N 0181047E - 594858N 0174648E - 593958N 0173448E - 592428N 0173448E - 592258N 0174448E - 592158N 0174448E - 592158N 0174148E - 591928N 0174148E - 591928N 0174448E - 591458N 0174448E - 591458N 0172148E - 593828N 0172148E - 595156N 0173855E - 595448N 0180647E	FL 095 ——— 1500 ft AMSL Class C	STOCKHOLM APP 123.755 STOCKHOLM APPROACH STOCKHOLM APP 120.155 STOCKHOLM APPROACH
Stockholm TMA g Established H24	594858N 0174648E - 593328N 0174148E - 593028N 0174648E - 592928N 0175748E - 592628N 0175718E - 592628N 0174448E - 592258N 0174448E - 592428N 0173448E - 593958N 0173448E - 594858N 0174648E	FL 095 ——— 1200 ft AMSL Class C	STOCKHOLM APP 123.755 STOCKHOLM APPROACH STOCKHOLM APP 120.155 STOCKHOLM APPROACH
Stockholm TMA h Established H24	601758N 0181247E - 594552N 0173110E - 594158N 0170548E - 592431N 0165545E - 590345N 0172148E - 585843N 0171324E - 590043N 0164228E - 590258N 0161604E - 591926N 0161906E - 594458N 0162648E - 601358N 0173548E - 601758N 0181247E	FL 095 ——— 4500 ft AMSL Class C	STOCKHOLM APP 123.755 STOCKHOLM APPROACH STOCKHOLM APP 120.155 STOCKHOLM APPROACH
Stockholm TMA i Established H24	590345N 0172148E - 585530N 0175846E - 584810N 0174618E - 583659N 0172725E - 585758N 0172428E - 585843N 0171324E - 590345N 0172148E	FL 095 ——— 3000 ft AMSL Class C	STOCKHOLM APP 120.155 STOCKHOLM APPROACH
Stockholm TMA k Established H24	600207N 0191849E - 594025N 0194941E - 593558N 0191625E - 593220N 0185010E - 594058N 0185947E - 595258N 0185049E - 600207N 0191849E	FL 095 ——— FL 065 Class C	STOCKHOLM ACC 132.480 SWEDEN CONTROL
Stockholm TMA l Established H24	593558N 0191625E - 591518N 0185806E - 590231N 0184517E - 584957N 0183222E - 584509N 0182726E - 583459N 0175558E - 583659N 0172725E - 584810N 0174618E - 585530N 0175846E - 590215N 0181025E - 591248N 0182847E - 592422N 0184124E - 593220N 0185010E - 593558N 0191625E	FL 095 ——— 4500 ft AMSL Class C	STOCKHOLM ACC 133.705 SWEDEN CONTROL STOCKHOLM ACC 132.480 SWEDEN CONTROL

Terminal Control Areas			**ATS Airspace Classification. Ref ENR 1.4**
Name	Lateral limits	Vertical limits	ATC unit Channel/FREQ Callsign
Sector Uppsala Established during hours of UPPSALA TWR.	601758N 0181247E - 594552N 0173110E - 594158N 0170548E - 595620N 0165328E - 601358N 0173548E - 601758N 0181247E	4500 ft AMSL ——— 1200 ft AMSL Class C	UPPSALA TWR 119.200 UPPSALA TOWER
Sector Västerås Established during hours of VÄSTERÅS TWR.	595620N 0165328E - 594158N 0170548E - 590943N 0164722E - 590933N 0163941E - 591926N 0161906E - 594458N 0162648E - 595620N 0165328E	4500 ft AMSL ——— 1500 ft AMSL Class C	STOCKHOLM/Västerås TWR 130.605 VÄSTERÅS TOWER
SUNDSVALL TMA	630401N 0175357E - 625850N 0180339E - 625234N 0181515E - 623704N 0181239E - 621217N 0180836E - 615543N 0180240E - 615214N 0173757E - 615136N 0172729E - 620215N 0165527E - 620602N 0164844E - 622416N 0163744E - 623927N 0164023E - 625418N 0164258E - 630120N 0173351E - 630401N 0175357E		
Sundsvall TMA a Established during operational hours of SUNDSVALL TWR.	630120N 0173351E - 624507N 0174111E - 624250N 0174629E - 623704N 0181239E - 622822N 0164536E - 623927N 0164023E - 625418N 0164258E - 630120N 0173351E	FL 095 ——— 2500 ft AMSL Class C	SUNDSVALL-TIMRÅ TWR 129.555 SUNDSVALL TOWER
Sundsvall TMA b Established during operational hours of SUNDSVALL TWR.	623704N 0181239E - 621217N 0180836E - 620405N 0170825E - 622822N 0164536E - 623704N 0181239E	FL 095 ——— 2000 ft AMSL Class C	SUNDSVALL-TIMRÅ TWR 129.555 SUNDSVALL TOWER
Sundsvall TMA c Established during operational hours of SUNDSVALL TWR.	630401N 0175357E - 625850N 0180339E - 625234N 0181515E - 623704N 0181239E - 624250N 0174629E - 624507N 0174111E - 630120N 0173351E - 630401N 0175357E	FL 095 ——— 4500 ft AMSL Class C	SUNDSVALL-TIMRÅ TWR 129.555 SUNDSVALL TOWER
Sundsvall TMA d Established during operational hours of SUNDSVALL TWR.	623927N 0164023E - 622822N 0164536E - 620405N 0170825E - 621217N 0180836E - 615543N 0180240E - 615214N 0173757E - 615136N 0172729E - 620215N 0165527E - 620602N 0164844E - 622416N 0163744E - 623927N 0164023E	FL 095 ——— 4500 ft AMSL Class C	SUNDSVALL-TIMRÅ TWR 129.555 SUNDSVALL TOWER
SÄLEN TMA	612841N 0124850E - 611829N 0132105E - 611344N 0132736E - 610028N 0133102E - 604308N 0133531E - 603416N 0130800E - 604413N 0124027E - 610252N 0123451E - 611721N 0121422E - 612218N 0122002E - 612747N 0123659E - 612813N 0124244E - 612841N 0124850E		
Sälen TMA a Established during operational hours of SÄLEN TWR.	612841N 0124850E - 611829N 0132105E - 611344N 0132736E - 610028N 0133102E - 604413N 0124027E - 610252N 0123451E Swedish/Norwegian border northward to - 612813N 0124244E - 612841N 0124850E	FL 095 ——— 4200 ft AMSL Class C	SÄLEN TWR 124.460 SÄLEN TOWER
Sälen TMA b Established during operational hours of SÄLEN TWR. Classified as RMZ outside operational hours of SÄLEN TWR, frequency to be used 118.830 POLARIS CONTROL.	612813N 0124244E Swedish/Norwegian border southward to - 610252N 0123451E - 611721N 0121422E - 612218N 0122002E - 612747N 0123659E - 612813N 0124244E	FL 095 ——— 4200 ft AMSL Class C	SÄLEN TWR 124.460 SÄLEN TOWER

Terminal Control Areas		**ATS Airspace Classification. Ref ENR 1.4**	
Name	Lateral limits	Vertical limits	ATC unit Channel/FREQ Callsign
Sälen TMA c Established during operational hours of SÄLEN TWR.	610028N 0133102E - 604308N 0133531E - 603416N 0130800E - 604413N 0124027E - 610028N 0133102E	FL 095 ——— 4500 ft AMSL Class C	SÄLEN TWR 124.460 SÄLEN TOWER
UMEÅ TMA	641628N 0201137E - 641112N 0212120E - 634659N 0205639E - 632852N 0203847E - 632244N 0202524E - 631216N 0200540E - 632356N 0194304E - 634408N 0190253E - 635221N 0192001E - 641409N 0200635E - 641628N 0201137E		
Umeå TMA a Established during operational hours of UMEÅ TWR.	641409N 0200635E - 634659N 0205639E - 632852N 0203847E - 632244N 0202524E - 635221N 0192001E - 641409N 0200635E	FL 095 ——— 2000 ft AMSL Class C	UMEÅ TWR 119.805 UMEÅ TOWER
Umeå TMA b Established during operational hours of UMEÅ TWR.	641628N 0201137E - 641112N 0212120E - 634659N 0205639E - 641409N 0200635E - 641628N 0201137E	FL 095 ——— 4500 ft AMSL Class C	UMEÅ TWR 119.805 UMEÅ TOWER
Umeå TMA c Established during operational hours of UMEÅ TWR.	635221N 0192001E - 632244N 0202524E - 631216N 0200540E - 632356N 0194304E - 634408N 0190253E - 635221N 0192001E	FL 095 ——— 4500 ft AMSL Class C	UMEÅ TWR 119.805 UMEÅ TOWER
VIDSEL TMA	661255N 0194115E - 661028N 0195310E - 655355N 0211444E - 652947N 0204608E - 654754N 0192119E - 654955N 0191146E - 661255N 0194115E		
Vidsel TMA a Established during operational hours of VIDSEL TWR	661028N 0195310E - 655355N 0211444E - 655155N 0203445E - 654455N 0202445E - 652947N 0204608E - 654754N 0192119E - 655455N 0193445E - 660155N 0194245E - 661028N 0195310E	FL 095 ——— 3000 ft AMSL Class C	VIDSEL APP 124.150 VIDSEL APPROACH
Vidsel TMA b Established during operational hours of VIDSEL TWR	655355N 0211444E - 652947N 0204608E - 654455N 0202445E - 655155N 0203445E - 655355N 0211444E	FL 095 ——— 2400 ft AMSL Class C	VIDSEL APP 124.150 VIDSEL APPROACH
Vidsel TMA c Established during operational hours of VIDSEL TWR	661255N 0194115E - 661028N 0195310E - 660155N 0194245E - 655455N 0193445E - 654754N 0192119E - 654955N 0191146E - 661255N 0194115E	FL 095 ——— 3200 ft AMSL Class C	VIDSEL APP 124.150 VIDSEL APPROACH
VISBY TMA	581515N 0183339E - 580442N 0184031E - 574225N 0185446E - 571955N 0183338E - 572729N 0175017E - 575450N 0174853E - 581032N 0175019E - 581515N 0183339E		
Visby TMA a Established during operational hours of VISBY TWR.	580442N 0184031E - 574225N 0185446E - 571955N 0183338E - 572729N 0175017E - 575450N 0174853E - 580442N 0184031E	FL 095 ——— 1100 ft AMSL Class C	VISBY APP 126.155 VISBY APPROACH
Visby TMA b Established during operational hours of VISBY TWR.	581515N 0183339E - 580442N 0184031E - 575450N 0174853E - 581032N 0175019E - 581515N 0183339E	FL 095 ——— 4500 ft AMSL Class C	VISBY APP 126.155 VISBY APPROACH

ACC-sectors		**ATS Airspace Classification. Ref ENR 1.4**	
Name	Lateral limits	Vertical limits	Channel/FREQ
6:5	600122N 0184425E - 595258N 0185049E - 594058N 0185947E - 593220N 0185010E - 591248N 0182847E - 592052N 0175751E - 592416N 0175108E - 593900N 0175612E - 595326N 0180133E - 600122N 0184425E	UNL FL 195	
ESOS ACC sector 7			118.280
7:1	593900N 0175612E - 592416N 0175108E - 591458N 0174752E - 591458N 0174448E - 591702N 0165131E - 592332N 0165504E - 593112N 0172033E - 593535N 0172415E - 593900N 0175612E	FL 285 FL 195	
7:2	592332N 0165504E - 591702N 0165131E - 590933N 0163941E - 590158N 0162804E - 585123N 0161204E - 584657N 0154822E - 591926N 0161906E - 592157N 0164048E - 592332N 0165504E	FL 175 GND	
7:3	591702N 0165131E - 591458N 0174448E - 590945N 0173428E - 585833N 0171536E - 590045N 0164240E - 590943N 0164722E - 591702N 0165131E	FL 285 FL 105	
7:4	590045N 0164240E - 585833N 0171536E - 584952N 0165900E - 585123N 0161204E - 585633N 0164018E - 590045N 0164240E	FL 285 FL 095	
7:5	585123N 0161204E - 584952N 0165900E - 584745N 0165556E - 583352N 0163548E - 581109N 0161140E - 582837N 0153130E - 584657N 0154822E - 585123N 0161204E	FL 285 FL 175	
7:6	591702N 0165131E - 590943N 0164722E - 590045N 0164240E - 585633N 0164018E - 585123N 0161204E - 590158N 0162804E - 590933N 0163941E - 591702N 0165131E	FL 285 GND	
ESOS ACC sector 8			129.180
8:1	602755N 0161956E - 602208N 0165400E - 600640N 0171806E - 595620N 0165328E - 594158N 0170548E - 592332N 0165504E - 592157N 0164048E - 591926N 0161906E - 591727N 0154127E - 593120N 0151828E - 600430N 0154436E - 600938N 0154849E - 602755N 0161956E	FL 285 GND	
8:2	600640N 0171806E - 595731N 0171432E - 594158N 0170548E - 595620N 0165328E - 600640N 0171806E	FL 285 FL 085	
8:3	600640N 0171806E - 595834N 0171954E - 593535N 0172415E - 593112N 0172033E - 592332N 0165504E - 594158N 0170548E - 595731N 0171432E - 600640N 0171806E	FL 285 FL 195	
ESOS ACC sector 9			127.530
9:1	575945N 0161542E - 575218N 0164526E - 574429N 0174926E - 572729N 0175017E - 571955N 0183338E - 570708N 0174711E - 570122N 0172401E - 565200N 0164619E - 565200N 0153959E - 565200N 0153225E - 565722N 0152409E - 571009N 0150427E - 571416N 0151011E - 575202N 0160457E - 575945N 0161542E	FL 285 GND	

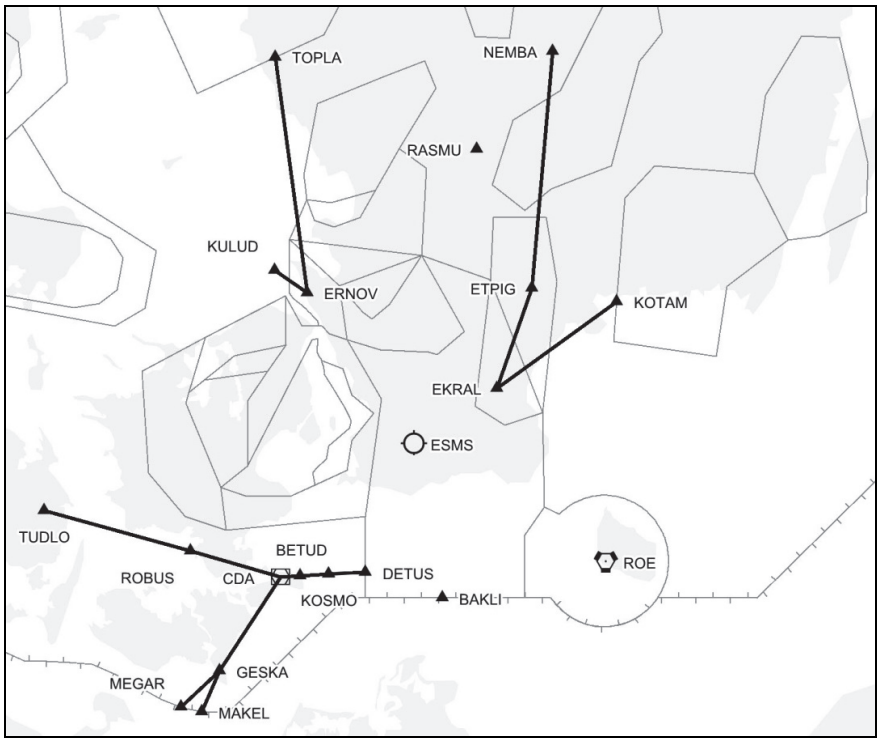
ACC-sectors			ATS Airspace Classification. Ref ENR 1.4
Name	Lateral limits	Vertical limits	Channel/FREQ
9:2	571009N 0150427E - 565722N 0152409E - 565200N 0153225E - 565200N 0153959E - 565200N 0164619E - 563617N 0162013E - 562016N 0153755E - 562100N 0150734E - 563741N 0150704E - 564120N 0150658E - 565155N 0145251E - 570704N 0150009E - 571009N 0150427E	FL 195 GND	
ESOS ACC sector F			124.430
F:1	635454N 0181654E - 634826N 0185207E - 634915N 0192702E - 634719N 0201707E - 633436N 0204441E - 633045N 0205302E - 632944N 0204716E - 632830N 0204000E - 631706N 0202130E - 631000N 0201000E - 622000N 0194747E - 614000N 0193000E - 613620N 0192858E - 613749N 0182428E - 610833N 0173048E - 621730N 0165237E - 624354N 0163753E - 635454N 0181654E	UNL GND	
F:2	633045N 0205302E - 613714N 0192914E - 614000N 0193000E - 631000N 0201000E - 632830N 0204000E - 633045N 0205302E	FL 660 FL 095	Delegated area KVARKEN, see para 3
ESOS ACC sector K			131.055
K:1	690336N 0203255E Swedish/Finnish border southward to - 653148N 0240824E - 644100N 0225500E - 633700N 0213000E - 633045N 0205302E - 633436N 0204441E - 634719N 0201707E - 634915N 0192702E - 634826N 0185207E - 635454N 0181654E - 643836N 0134232E Swedish/Norwegian border northward to - 645033N 0135724E Swedish/Norwegian border northward to - 653057N 0142956E Swedish/Norwegian border northward to - 660912N 0150207E - 660509N 0153014E - 670000N 0162336E - 680504N 0172652E Swedish/Norwegian border northward to - 690336N 0203255E	UNL GND	
K:2	680504N 0172652E - 670000N 0162336E - 670000N 0161453E Swedish/Norwegian border northward to - 680504N 0172652E	FL 125 GND	Delegated area SILVER northern part, see para 3
K:3	670000N 0161453E - 670000N 0162336E - 660509N 0153014E - 660912N 0150207E Swedish/Norwegian border northward to - 670000N 0161453E	FL 095 GND	Delegated area SILVER southern part, see para 3
K:4	653057N 0142956E Swedish/Norwegian border northward to - 645033N 0135724E - 653057N 0142956E	FL 660 FL 195	Delegated area BORGE, see para 3
ESOS ACC sector N			132.155
N:1	643836N 0134232E - 635454N 0181654E - 624354N 0163753E - 621730N 0165237E - 610833N 0173048E - 602208N 0165400E - 602755N 0161956E - 610419N 0143414E - 612123N 0125215E Swedish/Norwegian border northward to - 613408N 0123410E - 620000N 0121311E Swedish/Norwegian border northward to - 643836N 0134232E	UNL GND	
N:2	643320N 0134403E Swedish/Norwegian border northward to - 640447N 0132234E - 643320N 0134403E	FL 660 FL 195	Delegated area NORLI, see para 3
N:3	620000N 0121311E - 613408N 0123410E Swedish/Norwegian border northward to - 620000N 0121311E	FL 095 GND	Delegated area NOR2, see para 3

7 Non-standard Planning Zone (NPZ)

Name	Lateral limits	Vertical limits Class	Remarks
EUNPZ10	554713N 0173842E - 554733N 0172628E - 555223N 0172859E - 555251N 0172957E - 554713N 0173842E	FL 660 ——— FL 095 Class C	Swedish-Polish cross-border zone preventing planning trajectories in close vicinity of neighbouring FIR (UMKK).

3.8 Landande trafik till ESMS

3.8 Arriving traffic to ESMS



ESMS Arrival Connecting Point	ESMS STAR Initial Waypoint	Flight Plan
NEMBA	EKRAL	DCT to NEMBA-N33-ETPIG-P605-EKRAL
KOTAM		DCT to KOTAM-L990-EKRAL
KULUD	ERNOV	DCT to KULUD-L621-ERNOV
TOPLA		DCT to TOPLA-L996-ERNOV
RASMU	RASMU	DCT to RASMU
ROE	ROE	DCT to ROE
BAKLI	BAKLI	BAKLI
MAKEL	DETUS	MAKEL-N851-GESKA-P605-KOSMO-L983-DETUS
TUDLO		DCT to TUDLO-L983-DETUS
MEGAR		MEGAR-P605-KOSMO-L983-DETUS (only DEP EDDH)

3.9 Landande trafik till ESTA

Direkt till TOKSI – NILEN eller TOKSI (om rimligt) annars enligt ENR 1.3.

3.9 Arriving traffic ESTA

DCT to TOKSI – NILEN or TOKSI (if suitable) otherwise according to ENR 1.3.

3.10 Landande trafik till ESMT

Direkt till PELOX eller TOKSI – PELOX (om rimligt) annars enligt ENR 1.3.

3.10 Arriving traffic ESMT

DCT to PELOX or TOKSI – PELOX (if suitable) otherwise according to ENR 1.3.

3.11 Landande trafik till ESMK

Direkt till GELMA - OEM (om rimligt) annars enligt ENR 1.3.

3.11 Arriving traffic ESMK

DCT to GELMA – OEM (if suitable) otherwise according to ENR 1.3.

3.12 Landande trafik till ESTL

Direkt LB (om rimligt) annars enligt ENR 1.3.

3.12 Arriving traffic to ESTL

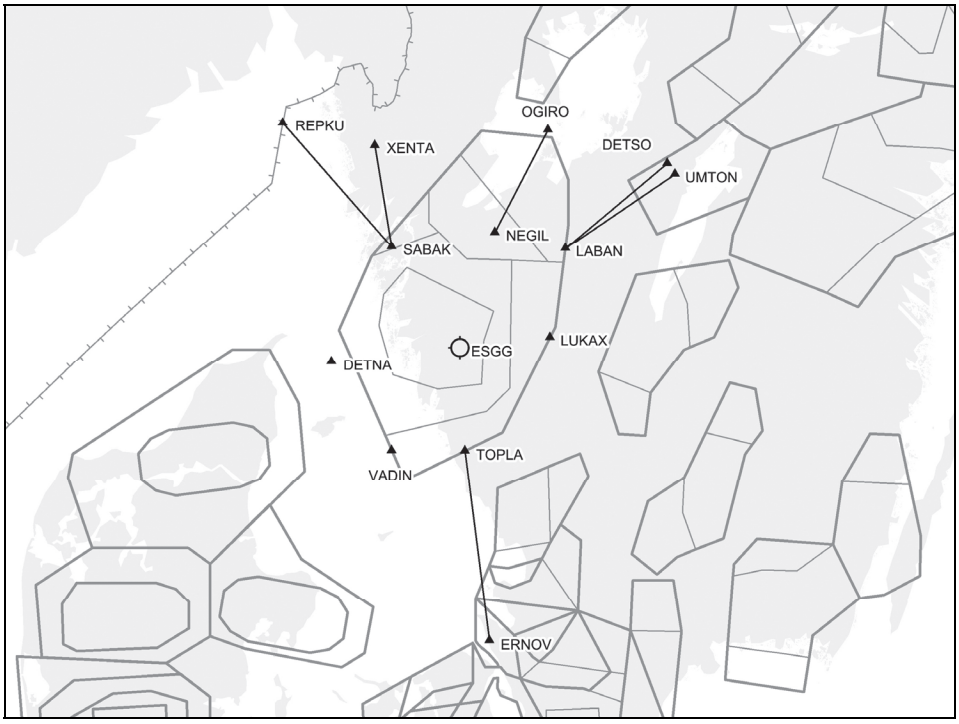
DCT LB (if suitable) otherwise according to ENR 1.3.

4 Startande/landande trafik från/till flygplatser inom Göteborg TMA laterala gränser

4.1 Startande trafik från ESGG

4 Departing/arriving traffic from/to aerodromes within the lateral borders of Göteborg TMA

4.1 Departing traffic ESGG



ESGG SID Final Waypoint	ESGG FRA Departure Connecting Point	Flight Plan
NEGIL	OGIRO	NEGIL-M852-OGIRO-DCT
LABAN	DETSO	LABAN-N873-DETSO-DCT
	UMTON (only for destination ESSB)	LABAN-Y430-UMTON-DCT
LUKAX	LUKAX	LUKAX-DCT
TOPLA	ERNOV	TOPLA-L996-ERNOV-DCT
	TOPLA (if the trajectory is east of TOPLA-ERNOV)	TOPLA-DCT
VADIN	VADIN	VADIN-DCT
DETNA	DETNA	DETNA-DCT
SABAK	REPKU	SABAK-L617-REPKU
	XENTA	SABAK-L997-XENTA-DCT

4.2 Startande trafik från övriga flygplatser inom Göteborg TMA laterala gränser

Färdplanera direkt från flygplatsen till NEGIL, LABAN, LUKAX, TOPLA, VADIN, DETNA eller SABAK och sedan enligt beskrivningen i para 4.1.

4.2 Departing traffic from other aerodromes within the lateral borders of Göteborg TMA

Flight plan from the aerodrome direct to NEGIL, LABAN, LUKAX, TOPLA, VADIN, DETNA or SABAK and then according to para 4.1 above.

3.4 Väntläge En-route / En-route holding

1 Väntläge En-route / En-route holding

Holding Identification	Inbound track (MAG)	Turn	MAX IAS (kt)	MNM – MAX	Time	Controlling unit and channel/FREQ
MILNU 595837N 0151801E	093°	Left	265 0.83 Mach	FL 245 - 340 FL 350 - 460	1.5 min 1.5 min	Stockholm ACC 131.130
NEKLA 590000.0N 0191549.1E	309°	Right	265 0.83 Mach	FL 245 - 340 FL 350 - 460	1.5 min 1.5 min	FL 285- Stockholm ACC 132.480 FL 285+ Malmö ACC 134.455
PELIT 591202N 0154116E	045°	Right	265 0.83 Mach	FL 245 - 340 FL 350 - 460	1.5 min 1.5 min	Stockholm ACC 131.130
PELUP 581643.8N 0162840.5E	034°	Right	265 0.83 Mach	FL 245 - 340 FL 350 - 460	1.5 min 1.5 min	FL 285- Stockholm ACC 133.705 FL 285+ Malmö ACC 133.260
TEKVA 595905N 0124310E	275°	Left	240 265 0.83 Mach	FL 100 - 200 FL 210 - 340 FL 350 - 460	1.5 min 1.5 min 1.5 min	FL 285- Oslo ACC 126.630 FL 285+ Stockholm ACC 131.130
XENTA 584129N 0112858E	347°	Left	265 0.83 Mach	FL 100 - 340 FL 350 - 460	1.5 min 1.5 min	Malmö ACC 124.405

ENR 4 RADIONAVIGATIONSHJÄLPMEDEL / RADIO NAVIGATION AIDS

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

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

Name of station (VOR/VAR)	ID	Frequency (CH)	Hours of operation	Coordinates	ELEV DME antenna	FRA relevance A = ARR D = DEP I = INT	Remarks
ARLANDA DVOR/DME/ 6°E 2020	ARL	116.00 MHz (107X)	H24	593912.3N 0175452.1E	149 ft	(I)	Coverage FL500/100 NM DVOR on R-286 between 14-12 NM interference that can be mistaken for overhead indication.
AROS DVOR/DME/ 6°E 2020	ARS	112.80 MHz (75X)	H24	593510.4N 0163901.2E	40 ft	(IA)	(A): ESSB Coverage FL500/80 NM
ARVIDSJAUR DME	ARV	109.35 MHz (30Y)	H24	653552.0N 0191546.3E	1276 ft		Coverage FL500/100 NM
BACKA DME	BAK	112.70 MHz (74X)	H24	573318.6N 0115836.6E	337 ft		Coverage FL500/80 NM
BORLÄNGE VOR/DME/ 5°E 2020	BOR	117.60 MHz (123X)	H24	602517.4N 0153109.1E	513 ft	(I)	Coverage FL500/100 NM Limited range of DME within sector 140°-290°
BUNGE DME	BGE	116.60 MHz (113X)	H24	575106.9N 0190146.6E	131 ft		Coverage FL500/100 NM
FENGERSFORS DME	FEN	115.35 MHz (100Y)	H24	585500.9N 0121748.6E	608 ft		Coverage FL500/100 NM
FÄRILA DME	FRL	116.50 MHz (112X)	H24	614905.6N 0155045.1E	1233 ft		Coverage FL500/100 NM
HAMMAR DVOR/DME/ 6°E 2020	HMR	112.60 MHz (73X)	H24	601645.2N 0182329.6E	99 ft	(I)	Coverage 315°- 045° FL500/150 NM Coverage 045°- 315° FL500/100 NM Bearing information within the sector 150°-220° has an interference of a few seconds duration. The distance is proportional to the level (distance 15 NM at 4000 ft, 50 NM at 14 000 ft). The interference can be mistaken for an overhead indication.
HOTING DME	HOT	115.70 MHz (104X)	H24	641403.3N 0155559.8E	2153 ft		Coverage FL500/100 NM
JÖNKÖPING DVOR/DME/ 7°E 2025	JON	115.80 MHz (105X)	H24	574537.6N 0140355.5E	782 ft	(IA)	(A): EKCH, EKRK Coverage FL500/100 NM
KALMAR VOR/DME/ 6°E 2020	KAL	111.60 MHz (53X)	H24	564107.2N 0161702.8E	26 ft	(I)	Coverage 022.5°- 067.5° FL500/80 NM Coverage 067.5°- 022.5° FL500/160 NM
KARLSTAD VOR/DME/ 5°E 2020	KSD	117.80 MHz (125X)	H24	592632.8N 0131953.6E	341 ft	(ID)	(D): ENGM, ENRY, ENTO, ESSA, ESSB Coverage FL500/120 NM
KIRUNA DVOR/DME/ 10°E 2020	KRA	115.20 MHz (99X)	H24	674909.3N 0202015.3E	1505 ft	(I)	Coverage FL500/100 NM
LANDVETTER DVOR/DME/ 4°E 2020	LAV	114.60 MHz (93X)	H24	573922.0N 0121723.5E	587 ft	(I)	Coverage FL500/100 NM

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

4.4 Signifikanta punkter / Name-Code designators for significant points

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

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

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

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

Name code designator	Coordinates	ATS route or other route	FRA relevance E = FRA Horizontal Entry Point X = FRA Horizontal Exit Point A = FRA Arrival Connecting Point D = FRA Departure Connecting Point I = FRA Intermediate Point	Remark/Usage
FOXSA	615451.4N 0175629.3E	T316, ESNN SID	(I)	
GAJPA	630013.5N 0180104.9E	M852, P850, T70, ESNN STAR/SID	(I)	
GELDA	565217N 0193400E	M996, N5	(I)	
GELMA	570223N 0141213E	N850	(IA)	(A): ESMK
GETPA	590209N 0115532E	L727, L996	(I)	
GEVRU	604434N 0141947E	L199, M996, N133, Z371	(I)	
GIGOD	570156N 0194301E	-	(I)	Re-routing point
GIKAV	640204N 0134738E	L80, L870, T65	(I)	
GILEN	680139N 0170604E	P600, T65	(I)	
GIMLO	584225.2N 0155036.8E	L734, ESKN STAR	(I)	
GIROR	550336N 0142424E	L983, M864	(I)	
GISON	555554N 0174206E	M990	(EX)	
GIXUN	572516N 0115209E	L997, M852	(I)	
GOKEP	614509N 0142330E	L199, M82	(I)	
GORAX	554822N 0130226E	N851	(I)	
GORPI	545500N 0153918E	N746	(EX)	
GOSDI	645918.6N 0212154.2E	M607, ESPA STAR	(I)	
GOSOT	544820N 0145128E	L996	(EX)	
GOTAL	581438.0N 0182743.0E	T316, ESSV STAR	(I)	
GURLI	582528N 0103358E	-	(I)	Re-routing point
HUMBE	673209N 0223657E	-	(I)	
IBGAX	594320N 0152345E	L199, N623	(ID)	(D): ESSA, ESSB
IBNIC	651913N 0183640E	-	(I)	
IBREK	562330N 0121356E	-	(I)	
IDPAL	562738N 0141841E	Q44	(ID)	(D): EKCH, EKRK
IFCAG	583400N 0171500E	-	(I)	Re-routing point
INGIS	583640.2N 0172755.4E	M607, ESKN STAR/SID	(I)	
INRER	560309.7N 0124849.2E	L621, L996, M44	(I)	
INSUK	582127N 0202852E	N623	(I)	
INVOL	573916N 0111317E	N866	(I)	
IRGAL	624950N 0200039E	T89	(I)	
ITVAV	664430N 0195658E	T317	(I)	
KEKOV	545658N 0142628E	N195, Z491	(I)	
KELAS	602807N 0191033E	L87	(IA)	(A): ESSA, ESSB

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

Name code designator	Coordinates	ATS route or other route	FRA relevance E = FRA Horizontal Entry Point X = FRA Horizontal Exit Point A = FRA Arrival Connecting Point D = FRA Departure Connecting Point I = FRA Intermediate Point	Remark/Usage
LILBI	551511N 0124058E	L990	(I)	
LINSA	594328N 0172442E	N873, P607	(I)	
LIVLI	671543N 0164848E	P600, T519	(I)	
LOBBI	571905.0N 0112953.0E	N873, ESGG STAR	(I)	
LOMLA	603526.5N 0131137.0E	Z15, ESKS SID	(I)	
LUKAX	574248.9N 0130854.2E	ESGG SID	(ID)	(D): ESGG
LUKIG	635855N 0181039E	T400, T401	(I)	
LUPET	593825N 0195235E	L77, Y360	(IA)	(A): ESSA, ESSB
LURAR	581906N 0145704E	N607	(IA)	(A): ESCF, ESKN, ESSL, ESSP
LUSID	545500N 0151746E	L621, L87	(EX)	
MAKUR	572547.0N 0112425.0E	N607, Z731, ESGG SID	(I)	
MALIV	550945.8N 0130212.7E	L987, M611, P605, P862, ESMS SID	(I)	
MAPEV	682335N 0215429E	-	(I)	
MASEV	601040N 0123205E	L24, Z183	(ID)	(D): ENGM, ENRY, ENTO
MATEK	550059N 0124803E	L983	(I)	Re-routing point
MAVIP	625624N 0130456E	N133, N150, T65, Y96	(I)	
MAXUM	553940.5N 0133614.4E	L621, L996, M736	(I)	
MIDIC	552300N 0144400E	-	(I)	
MIKNA	575425N 0155519E	N851	(IA)	(A): ESSA, ESSB
MILNU	595837N 0151801E	N15, Z183	(I)	
MIMKI	665609N 0160526E	T320	(I)	
MISBI	555355N 0124021E	N850	(I)	
MISMA	563828.5N 0131210.1E	N872, ESTA STAR	(I)	
MISMO	661029N 0234910E	M607, M82	(I)	
MOGLU	590730N 0114609E	L727	(I)	
MOKNI	573847N 0150405E	N850	(I)	
MOSAT	550231N 0124717E	P605	(I)	
MOSIN	553310N 0124753E	N851	(I)	
MOTIG	635548N 0191604E	M852, N3	(I)	
MOVIS	571309.7N 0162050.1E	L87, ESMQ STAR/SID	(I)	
MOXAM	583152.9N 0131850.1E	L734, N866, ESGG STAR	(IA)	(A): ESGG
NAFFI	670418N 0231239E	-	(I)	

Name code designator	Coordinates	ATS route or other route	FRA relevance E = FRA Horizontal Entry Point X = FRA Horizontal Exit Point A = FRA Arrival Connecting Point D = FRA Departure Connecting Point I = FRA Intermediate Point	Remark/Usage
NEBET	670205N 0234301E	T400	(I)	
NEBSI	585418N 0205629E	L734, L870, M92, P607	(IA)	(A): ESSA, ESSB
NEBUR	653328N 0143030E	-	(I)	
NEFYN	573502N 0152703E	N851	(I)	
NEGIL	581504.8N 0123731.2E	L727, M852, N15, N866, ESGG SID	(I)	
NEKET	581816N 0203443E	N616, N623	(I)	
NEKLA	590000.0N 0191549.1E	N623, P156, Z540, ESSA SID	(IAD)	(A):ESSB (D):ESSA, ESSB
NEMBA	570931N 0142214E	N33, N850	(IAD)	(A): ESMS (D): ESCF, ESKN, ESSL, ESSP
NEPVA	585544N 0183359E	T316	(ID)	(D): ESSA, ESSB
NEREN	583740N 0204618E	N197, Q44	(I)	
NETAV	635947N 0141437E	L199, N150, P600, T64	(I)	
NEXIL	562020.9N 0134359.2E	M736, N851, ESMS SID	(I)	
NIBNO	594424N 0122132E	Z166	(IAD)	(A): ENRY, ENTO (D): ENGM, ENRY, ENTO
NIKEG	584128N 0181815E	L199	(I)	
NILEN	564344.3N 0131918.6E	L617, N872, ESTA STAR	(IA)	(A): ESGG
NILUG	584857N 0175305E	L199, L734, Z226, Z227, Z228, Z229, ESKN STAR, ESSA STAR	(I)	
NINTA	561344N 0181708E	M864	(EX)	
NISIX	591907N 0202554E	M851	(ID)	(D): ESSA, ESSB, EFHK
NISLO	552857N 0125305E	L975	(I)	
NITMU	643258N 0174559E	-	(I)	
NOGBO	642745N 0140650E	T519, T65, Z108	(I)	
NOSLI	590422.0N 0171529.2E	N850, T31, ESSA SID, ESSB SID	(I)	
NOVRI	683242N 0203944E	N150, T317	(I)	
NUGPU	584649N 0172904E	M607	(I)	
NUGTA	642902N 0144849E	N150	(I)	
NUPVI	553147N 0164715E	-	(I)	Re-routing point
ODARU	550545N 0124541E	M611	(I)	
ODHAF	654601N 0225244E	-	(I)	
ODIBI	585707N 0185232E	N5, T365	(ID)	(D): ESSA, ESSB

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OGIRO	584614N 0130740E	M852	(IAD)	(AD): ESGG
OGLAV	684959N 0211022E	N150	(I)	
OGLOB	595559N 0192744E	-	(I)	
OGRIN	674358N 0191809E	N150	(I)	
OKAGA	545500N 0134549E	-	(EXI)	(I): Only AVBL as Intermediate for traffic from/to ADs in DK-SE FAB
OKSAT	591946N 0115726E	L996, P609	(IA)	(A): ENRY, ENTO
OLANU	572808N 0174307E	P606	(I)	
OLGUV	622603N 0121053E	Z155	(I)	
OSKIR	654015N 0193656E	T317	(I)	
OSKOK	621911N 0121544E	T65, Z255, Z371	(I)	
OSLAV	624334.9N 0151059.9E	L870, ESNZ STAR/SID	(I)	
OSTAX	660307N 0164853E	N150	(I)	
OTMAB	600700N 0145000E	-	(I)	
OTVEB	562930N 0141610E	T408	(ID)	(D): EKCH, EKRK
OVDAL	622343N 0131205E	L77, N133, P600, T311, Z11	(I)	
OXOTI	624508N 0133124E	Y96, Z265	(I)	
PELIT	591202N 0154116E	N873, Y42	(I)	
PELOX	570416.8N 0132804.8E	ESMT STAR	(IA)	(A): ESMT
PELUP	581643.8N 0162840.5E	L87, N851, Z226, ESKN STAR	(I)	
PEMAB	681911N 0201625E	N150, T519	(I)	
PENAX	663810N 0154034E	-	(I)	
PENOR	553819N 0170941E	L727, L987, M607, T316, Y44	(EX)	
PERAX	600434N 0162253E	M996	(ID)	(D): ESSB
PERKE	664407N 0235332E	M852	(I)	
PETEV	591225.8N 0170043.5E	L87, N872, ESSB SID, ESSA SID	(I)	
POBEL	682952N 0190555E	-	(I)	Re-routing point
POKAS	595853N 0192333E	-	(I)	
POKEN	544911N 0143351E	Q800, Z212, Z491	(EX)	
RASEL	580141N 0202453E	L199, P156, Y130, Y40	(I)	
RASEN	634843N 0190551E	M82, M852, T317, T404	(I)	
RASMU	564530.2N 0134855.0E	M736, N850, ESMS STAR	(IAD)	(A): ESMS (D): EKCH, EKRK, ESMS

Name code designator	Coordinates	ATS route or other route	FRA relevance E = FRA Horizontal Entry Point X = FRA Horizontal Exit Point A = FRA Arrival Connecting Point D = FRA Departure Connecting Point I = FRA Intermediate Point	Remark/Usage
REGMA	590632N 0112058E	L997	(I)	
REKMI	651059N 0192821E	T317	(I)	
REKMO	555922N 0124724E	N850	(I)	
REMSA	572849N 0173520E	-	(I)	Re-routing point
REPKU	584821N 0103629E	L617, Y43	(ID)	(D): ESGG
RESNA	602201.0N 0180129.4E	M607, P609, T314, T317, ESSA SID, ESSB SID	(ID)	(D): ESSA, ESSB
RIKPA	614947N 0185800E	M607, Z155	(I)	
RIKUM	595815N 0192429E	N851	(ID)	(D): ESSA, ESSB
RISEM	651308.6N 0211431.6E	M852, T400, ESPA STAR/SID	(I)	
RISMA	570231.0N 0115845.0E	L997, N15, ESGG STAR	(IA)	(A): ESGG
RIXEM	684728N 0201929E	-	(I)	
ROGED	603046N 0123624E	P607, P850	(I)	
ROGMI	581137.6N 0180006.3E	M996, Z229, ESSV STAR/SID	(IAD)	(A): ESSA, ESSB (D): ESSB
ROSMO	634159N 0204739E	P854, T81	(I)	
ROVPA	604402N 0122344E	M82, Z15, Z418	(I)	
ROXEN	563352N 0140200E	N851, Z451	(ID)	(D): EKCH, EKRK, ESMS
ROXUB	551547N 0140448E	M743	(I)	
RUMAR	550201N 0160415E	L983	(EX)	
RUNGA	594459N 0194327E	N872	(IA)	(A): ESSA, ESSB
SABAK	581035.6N 0113833.8E	L617, L997, Y41, Y440, Y44, Z731, ESGG SID	(IAD)	(AD): ENGM, ENRY, ENTO
SALLO	545500.0N 0132310.3E	M44, M736, ESMS SID	(EXDI)	(D): EKCH, EKRK, ESMS (I): Only AVBL as Intermediate for traffic from/to ADs in DK-SE FAB
SEPJA	672700N 0211300E	-	(I)	
SIMEG	551500N 0133004E	L987, M736, Z491, Z493	(I)	
SIPRI	605044N 0184506E	N5, P609, T316, T318, T31	(IA)	(A): ESSA, ESSB
SOLKA	631951N 0120309E	N133, P855, T401, T64	(I)	
SONIN	655855N 0214822E	ESPA STAR/SID	(I)	
SOPLI	641403.5N 0204425.8E	M607, ESNU SID	(I)	
SOVEV	671248N 0222116E	-	(I)	
SUTEV	643314N 0224416E	P998, T70	(I)	

Name code designator	Coordinates	ATS route or other route	FRA relevance E = FRA Horizontal Entry Point X = FRA Horizontal Exit Point A = FRA Arrival Connecting Point D = FRA Departure Connecting Point I = FRA Intermediate Point	Remark/Usage
SUVAR	610905N 0124310E	M996	(I)	
TABUT	593109N 0155501E	N866	(I)	
TEKVA	595905N 0124310E	N623, Z259	(I)	
TELMO	550316.6N 0140658.6E	L983, Z491, ESMS SID	(ID)	(D): EKCH, EKRK, ESMS
TEMLI	564041.5N 0152301.7E	Z330, ESDF STAR	(I)	
TERPA	672150.3N 0204151.6E	ESNQ STAR/SID	(I)	
TESPO	562016N 0171343E	M607, N746	(I)	
TIDVU	552440.7N 0133327.1E	L975, M736, M743, P605, Z400, ESMS STAR/SID	(I)	
TIGBA	625614N 0120731E	Z11, Z265	(I)	
TIMOB	650411.4N 0210005.1E	M852, ESPA STAR	(I)	
TINKA	591218.7N 0161747.0E	Y42, Y430, ESSB STAR/SID	(I)	
TIPEL	671543N 0161948E	T65	(I)	
TIPIX	585416.9N 0163127.1E	N872, ESKN SID	(I)	
TIXOR	652013N 0151301E	N3, P600	(I)	
TOGMI	614543N 0193225E	L80, P855, Z155, Z265	(I)	
TOKSI	570920.1N 0135439.7E	N872, ESMT STAR	(IAD)	(A): EKCH, EKRK, ESMT, ESTA (D): ESCF, ESKN, ESSL, ESSP
TOMBU	591346.0N 0193404.2E	N616, P607, ESSA SID	(IAD)	(AD): ESSA
TONSA	583632.9N 0163112.9E	L87, N850, ESKN SID	(I)	
TOPLA	570809.1N 0122020.2E	L996, N195, ESGG SID	(IAD)	(A): EKCH, EKRK, ESMS (D): ESGG
TORVA	592445N 0161243E	N873	(I)	
TOVRI	594459.3N 0184600.6E	N851, ESSA SID, ESSB STAR/SID	(I)	
TUDGI	640849N 0184044E	N3, T400	(I)	
TUMGU	595328N 0120112E	L996	(I)	
TUSNI	591946N 0164903E	-	(I)	Re-routing point
TUVLU	674126N 0232943E	-	(I)	
UMIXA	570924N 0134302E	Z703	(ID)	(D): ESCF, ESKN, ESSL, ESSP
UMLAX	610000N 0170411E	N15	(I)	
UMSAK	612528N 0142301E	L77, Z255	(I)	
UMSOM	631955N 0200221E	M607	(I)	

Name code designator	Coordinates	ATS route or other route	FRA relevance E = FRA Horizontal Entry Point X = FRA Horizontal Exit Point A = FRA Arrival Connecting Point D = FRA Departure Connecting Point I = FRA Intermediate Point	Remark/Usage
UMTON	583242N 0142020E	Y430	(IAD)	(A): ESSB (D): ESGG
UNGAV	545500N 0135941E	M864	(EXI)	(I): Only AVBL as Intermediate for traffic from/to ADs in DK-SE FAB
UNKAS	645309N 0201910E	T400, T403	(I)	
UPCUM	664448N 0211921E	-	(I)	Re-routing point
UPEVA	663714N 0173644E	N150, T320	(I)	
UPMAD	660100N 0175700E	-	(I)	Re-routing point
USIKI	661527N 0152342E	T63, T65	(I)	
VADIN	570816.0N 0113838.0E	M852, ESGG SID	(ID)	(D): ESGG
VAGAS	672057.2N 0200907.7E	M745, T317, ESNQ STAR/SID	(I)	
VALAK	632507N 0203427E	T81	(I)	
VATEX	591903N 0114914E	P609, Z166	(I)	
VEDAR	563154N 0120725E	L997	(ID)	(D): EKCH, EKRK
VEDEN	563154N 0185236E	-	(I)	
VEPIP	565513N 0143111E	N851	(I)	
VERAG	650731.9N 0215913.5E	T403, T404, T81, ESPA SID	(I)	
VESER	651120N 0154047E	N150, N3	(I)	
VIBAR	573441N 0162326E	L87, Z227, Z330	(IAD)	(A): ESSA, ESSB (D): ESKN, ESSA, ESSB
WAKZU	650832N 0190921E	-	(I)	
XEBIB	670301.7N 0211228.2E	-	(I)	
XELVI	612959N 0124005E	P600, T70	(I)	
XENTA	584129N 0112858E	L997, Y43, Z132	(IAD)	(A): ENGM, ENRY, ENTO (D): ESGG
XIDMI	594304N 0115612E	-	(I)	
XILAN	593933.5N 0190433.8E	L77, L870, N616, N872, Y40, ESSA STAR, ESSB STAR	(I)	
XONTU	655626N 0240436E	T404	(I)	
ZIPCO	615214.4N 0173757.2E	T314, ESNN STAR	(I)	

2.4 Restriktionsområden utfärdade av Transportstyrelsen

2.4.1 Inom områdena ES R102, R105, R106, R107, R108, R109, R110, R117, R124 och R126 upprättade av hänsyn till allmän ordning och säkerhet, gäller flygförbud. Flygning får dock äga rum med svenska militära luftfartyg och med svenska luftfartyg som används av Försvarsmakten, Polismyndigheten, Säkerhetspolisen, Kustbevakningen, Sjöfartsverket, LFV, Transportstyrelsen, Tullverket, Lantmäteriet, Sveriges geologiska undersökning, SMHI eller Affärsverket svenska kraftnät, ambulanstransport med hög medicinsk prioritet eller med luftfartyg när de används i räddningsinsatser enligt bestämmelserna i lagen om skydd mot olyckor (2003:778).

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

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

Tillstånd för flygning i områdena kan medges av Transportstyrelsen.

2.4.2 Inom områdena ES R47, R53, R57, R61 R114, R115 och R116 upprättade av hänsyn till friluftsliv eller natur- och miljövård gäller flygförbud.
Flygning får dock äga rum med svenska luftfartyg som används av Försvarsmakten vid skarpa insatser, Polismyndigheten, Säkerhetspolisen, Kustbevakningen, Sjöfartsverket, Lantmäteriet, Tullverket, Länsstyrelsen, ambulanstransport med hög medicinsk prioritet, eller med luftfartyg när de används i räddningsinsatser enligt bestämmelserna i lagen om skydd mot olyckor (2003:778).

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

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

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

Tillstånd för flygning i områdena kan medges av Transportstyrelsen.

2.5 Flight Plan Buffer Zone (FBZ)

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

2.6 Förteckning över restriktionsområden

2.4 Restricted areas established by the Swedish Transport Agency

2.4.1 Flight within areas ES R102, R105, R106, R107, R108, R109, R110, R117, R124 and R126 established with regard to common order and security, is prohibited. However, flight may be conducted if carried out by Swedish military aircraft or by Swedish aircraft operated by Swedish Armed Forces, local Police Department, Swedish Security Service, Swedish Coast Guard, Swedish Maritime Administration, LFV, Swedish Transport Agency, Swedish Customs Administration, National Land Survey Office, Geological Survey of Sweden, Swedish Meteorological and Hydrological Institute or Affärsverket Svenska Kraftnät, ambulance transport with high medical priority or by aircraft engaged in rescue operations in accordance with Civil Protection Act (2003:778).

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

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

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

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

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

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

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

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

2.5 Flight Plan Buffer Zone (FBZ)

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

2.6 List of restricted areas

Följande information ges i tabellen nedan för restriktionsområden:

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

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

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

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR1 ESRANGE	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	Rymdbas. Raketuppskjutning, raketmotortester, ballonguppsläpp, flygverksamhet inklusive UAS, nedsläpp av nyttolast. Tillstånd kan erhållas från STOCKHOLM ACC eller KIRUNA ATS. Space center. Rocket firing, rocket engine tests, balloon ascends, aviation activities including UAS, cargo drops. Permission obtainable from STOCKHOLM ACC or KIRUNA ATS.
ESR1A ESRANGE	675924N 0204843E - 675924N 0212754E - 674724N 0211613E - 674724N 0205443E - 675924N 0204843E	UNL GND	Rymdbas. Raketuppskjutning, raketmotortester, ballonguppsläpp, flygverksamhet inklusive UAS, nedsläpp av nyttolast. Tillstånd kan erhållas från STOCKHOLM ACC eller KIRUNA ATS. Space center. Rocket firing, rocket engine tests, balloon ascends, aviation activities including UAS, cargo drops. Permission obtainable from STOCKHOLM ACC or KIRUNA ATS.
ESR2 VIDSEL	665454N 0183445E - 663555N 0195144E - 660755N 0202244E - 655155N 0200944E - 655155N 0192645E - 663055N 0175246E - 665454N 0183445E	UNL GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller VIDSEL ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or VIDSEL ATS.
ESR2A VIDSEL	665454N 0183445E - 664527N 0191306E - 660955N 0201751E - 660939N 0202051E - 660755N 0202244E - 660723N 0202218E - 660447N 0202009E - 655523N 0191839E - 663055N 0175246E - 665454N 0183445E	UNL GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller VIDSEL ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or VIDSEL ATS.
ESR2B VIDSEL	660447N 0202009E - 655155N 0200944E - 655155N 0192645E - 655523N 0191839E - 660447N 0202009E	UNL GND	Militär verksamhet inklusive flygverksamhet, Tillstånd kan erhållas från STOCKHOLM ACC eller VIDSEL ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or VIDSEL ATS.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR2C VIDSEL	664527N 0191306E - 663555N 0195144E - 660939N 0202051E - 660955N 0201751E - 664527N 0191306E	UNL GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller VIDSEL ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or VIDSEL ATS.
ESR03 LOWER PART OF RIVER KALIX	663555N 0224443E - 663355N 0231542E - 655755N 0234342E - 654655N 0222943E - 655055N 0222643E - 661955N 0224943E - 663555N 0224443E	UNL GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ESR04 BODEN	660555N 0212444E - 655225N 0220743E - 654655N 0220943E - 654255N 0214843E - 654955N 0214313E - 654955N 0213244E - 655155N 0212444E - 660055N 0211044E - 660555N 0212444E	UNL GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ESR5 BODEN SÖDRA	654835N 0213616E - 654725N 0213944E - 654525N 0214144E - 654355N 0213614E - 653955N 0213314E - 653825N 0211844E - 653955N 0211244E - 654525N 0211844E - 654555N 0213044E - 654835N 0213616E	32000 ft AMSL GND	Militär verksamhet inklusive flygverksamhet upp till 2000 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC eller LULEÅ ATS. Military activities including aviation operations up to 2000 ft AMSL. Permission obtainable from STOCKHOLM ACC or LULEÅ ATS.
ESR5A BODEN SÖDRA	654835N 0213616E - 654725N 0213944E - 654525N 0214144E - 654355N 0213614E - 653825N 0211844E - 653955N 0211244E - 654525N 0211844E - 654555N 0213044E - 654835N 0213616E	32000 ft AMSL GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller LULEÅ ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or LULEÅ ATS.
ESR5B BODEN SÖDRA	654355N 0213614E - 653955N 0213314E - 653825N 0211844E - 654355N 0213614E	32000 ft AMSL GND	Militär verksamhet inklusive flygverksamhet upp till 2000 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC eller LULEÅ ATS. Military activities including aviation operations up to 2000 ft AMSL. Permission obtainable from STOCKHOLM ACC or LULEÅ ATS.
ESR7 UMEÅ	635646N 0201815E - 635301N 0201915E - 635137N 0201813E - 635018N 0201621E - 635012N 0201451E - 635148N 0201139E - 635618N 0200944E - 635646N 0201815E	11000 ft AMSL GND	Militär verksamhet inklusive flygverksamhet med UAS upp till 400 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC eller UMEÅ ATS. Military activities including aviation operations with UAS up to 400 ft AMSL. Permission obtainable from STOCKHOLM ACC or UMEÅ ATS.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR8 DAGSÅDALEN	631556N 0144408E - 631426N 0144618E - 631208N 0144048E - 631342N 0143918E - 631531N 0144138E - 631556N 0144408E	28500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet med UAS upp till 1600 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC eller ÖSTERSUND ATS. Military activities including aviation operations with UAS up to 1600 ft AMSL. Permission obtainable from STOCKHOLM ACC or ÖSTERSUND ATS.
ESR9 SALUBÖLE	632659N 0191528E - 632526N 0192603E - clockwise along an arc centred on 632656N 0191546E and with radius 4.9 NM - 632212N 0191803E - 632645N 0191532E - 632659N 0191528E	20000 ft AMSL ——— GND	Skjutning. Tillstånd kan erhållas från STOCKHOLM ACC eller ÖRNSKÖLDSVIK ATS. Firing. Permission obtainable from STOCKHOLM ACC or ÖRNSKÖLDSVIK ATS.
ESR10 TJÄRNMYREN	630946N 0171847E - 630656N 0172447E - 630556N 0171347E - 630756N 0171437E - 630946N 0171847E	11500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ESR11 MOUTH OF ÄNGERMANÄLVEN	625226N 0180446E - 624226N 0182346E - 623826N 0181746E - 623826N 0175747E - 624956N 0180147E - 625226N 0180446E	UNL ——— GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ESR13 ÄLVDALEN	613926N 0133553E - 613719N 0135841E - 613238N 0141232E - 612353N 0140824E - 611622N 0134606E - 611948N 0133511E - 613158N 0132126E - 613627N 0132746E - 613926N 0133553E	35500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ESR14 ARCHIPELAGO OF ÖREGRUND	602157N 0183617E - 602157N 0185946E - 600727N 0185947E - 600727N 0184647E - 601057N 0183717E - 602157N 0183617E	UNL ——— GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR15A VÄDDÖ	600816N 0185039E - clockwise along an arc centred on 595632N 0185332E and with radius 12 NM - 595038N 0191356E - 595632N 0185332E - 600816N 0185039E	40500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ESR15B VÄDDÖ	601257N 0184347E - 600816N 0185039E - 595632N 0185332E - 595038N 0191356E - 595158N 0184747E - 600357N 0183847E - 601257N 0184347E	4500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ESR16 KUNGSÄNGEN	593604N 0174158E - 593604N 0174204E - 593603N 0174218E - 593549N 0174251E - 593532N 0174404E - 593539N 0174511E - 593524N 0174610E - 593452N 0174713E - 593448N 0174717E - 593433N 0174732E - 593419N 0174733E - 593359N 0174750E - 593354N 0174759E - 593344N 0174807E - 593316N 0174815E - 593304N 0174816E - 593300N 0174813E - 593201N 0174602E - 593254N 0174400E - 593343N 0174208E - 593407N 0174112E - 593524N 0174035E - 593604N 0174158E	1600 ft AMSL ——— GND	Militär verksamhet ej flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller ARLANDA ATS. Military activities no aviation operations. Permission obtainable from STOCKHOLM ACC or ARLANDA ATS.
ESR16A KUNGSÄNGEN	593539N 0174511E - 593524N 0174610E - 593452N 0174713E - 593448N 0174717E - 593532N 0174404E - 593539N 0174511E	1600 ft AMSL ——— GND	Militär verksamhet ej flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller ARLANDA ATS. Military activities no aviation operations. Permission obtainable from STOCKHOLM ACC or ARLANDA ATS.
ESR16B KUNGSÄNGEN	593604N 0174158E - 593604N 0174204E - 593603N 0174218E - 593549N 0174251E - 593532N 0174404E - 593448N 0174717E - 593433N 0174732E - 593419N 0174733E - 593359N 0174750E - 593254N 0174400E - 593343N 0174208E - 593407N 0174112E - 593524N 0174035E - 593604N 0174158E	1600 ft AMSL ——— GND	Militär verksamhet ej flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller ARLANDA ATS. Military activities no aviation operations. Permission obtainable from STOCKHOLM ACC or ARLANDA ATS.
ESR16C KUNGSÄNGEN	593359N 0174750E - 593354N 0174759E - 593344N 0174807E - 593316N 0174815E - 593304N 0174816E - 593300N 0174813E - 593201N 0174602E - 593254N 0174400E - 593359N 0174750E	1600 ft AMSL ——— GND	Militär verksamhet ej flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller ARLANDA ATS. Military activities no aviation operations. Permission obtainable from STOCKHOLM ACC or ARLANDA ATS.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR18 BOFORS, VILLINGSBERG	592853N 0150006E - 592734N 0150051E - 592418N 0145925E - 592106N 0145757E - 591741N 0145458E - 591512N 0144952E - 591335N 0143935E - 591704N 0143449E - 591937N 0143449E - 592050N 0143449E - 592352N 0143449E - 592838N 0145302E - 592853N 0150006E	UNL GND	Skjutning, sprängning, UAS, bombning/CAS, test- och utvärderingsflyg, målbogsering och släpp av nyttolast. Tillstånd kan erhållas från STOCKHOLM ACC eller ÖREBRO ATS. Firing, blasting, UAS, bombing/CAS, test and evaluation flights, target towing and air drop. Permission obtainable from STOCKHOLM ACC or ÖREBRO ATS.
ESR18A BOFORS, VILLINGSBERG	592634N 0145413E - 592418N 0145925E - 592106N 0145757E - 591741N 0145458E - 591512N 0144952E - 591635N 0144623E - 591656N 0144133E - 591742N 0144036E - 591937N 0143449E - 592050N 0143449E - 592634N 0145413E	UNL GND	Skjutning, sprängning, UAS, bombning/CAS, test- och utvärderingsflyg, målbogsering och släpp av nyttolast. Tillstånd kan erhållas från STOCKHOLM ACC eller ÖREBRO ATS. Firing, blasting, UAS, bombing/CAS, test and evaluation flights, target towing and air drop. Permission obtainable from STOCKHOLM ACC or ÖREBRO ATS.
ESR18B BOFORS, VILLINGSBERG	592853N 0150006E - 592734N 0150051E - 592418N 0145925E - 592634N 0145413E - 592050N 0143449E - 592352N 0143449E - 592838N 0145302E - 592853N 0150006E	UNL GND	Skjutning, sprängning, UAS, bombning/CAS, test- och utvärderingsflyg, målbogsering och släpp av nyttolast. Tillstånd kan erhållas från STOCKHOLM ACC eller ÖREBRO ATS. Firing, blasting, UAS, bombing/CAS, test and evaluation flights, target towing and air drop. Permission obtainable from STOCKHOLM ACC or ÖREBRO ATS.
ESR18C BOFORS, VILLINGSBERG	591937N 0143449E - 591742N 0144036E - 591656N 0144133E - 591635N 0144623E - 591512N 0144952E - 591335N 0143935E - 591704N 0143449E - 591937N 0143449E	UNL GND	Skjutning, sprängning, UAS, bombning/CAS, test- och utvärderingsflyg, målbogsering och släpp av nyttolast. Tillstånd kan erhållas från STOCKHOLM ACC eller ÖREBRO ATS. Firing, blasting, UAS, bombing/CAS, test and evaluation flights, target towing and air drop. Permission obtainable from STOCKHOLM ACC or ÖREBRO ATS.
ESR19 SANDHAMN	592458N 0190047E - 591758N 0192246E - 590728N 0190417E - 592228N 0183817E - 592458N 0190047E	UNL GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR21 SOUTHERN PART OF THE STOCKHOLM ARCHIPELAGO	590958N 0180947E - 590958N 0183347E - 585958N 0185117E - 585358N 0183947E - 584358N 0181447E - 583958N 0175117E - 585328N 0174202E - 590458N 0175447E - 590958N 0180947E	UNL GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ESR22A VÄTTERN	584508N 0144743E - 584448N 0145858E - 583232N 0145839E - 582835N 0144934E - 582814N 0144803E - 582733N 0144626E - 582542N 0144606E - 582541N 0144524E - 582343N 0144150E - 582230N 0143945E - 582143N 0143920E - 582049N 0143911E - 581611N 0141718E - 581656N 0141705E - 581727N 0141655E - 581758N 0141711E - 582842N 0141905E - 583931N 0142354E - 584508N 0144743E	21000 ft AMSL GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC, MALMÖ ACC eller KARLSBORG ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC, MALMÖ ACC or KARLSBORG ATS.
ESR22B VÄTTERN	582049N 0143911E - 581658N 0144219E - 581258N 0144219E - 581158N 0143304E - 580758N 0142749E - 581209N 0141358E - 581611N 0141718E - 582049N 0143911E	4500 ft AMSL GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller KARLSBORG ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or KARLSBORG ATS.
ESR22C VÄTTERN	583021N 0143708E - 582921N 0144547E - 582711N 0144505E - 582508N 0144327E - 582318N 0144048E - 582106N 0143327E - 582053N 0142817E - 582636N 0142827E - 582835N 0142720E - 582853N 0142701E - 582939N 0142830E - 583020N 0143113E - 583021N 0143708E	18000 ft AMSL GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller KARLSBORG ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or KARLSBORG ATS.
ESR22D VÄTTERN	584044N 0144632E - 583859N 0144846E - 583737N 0145007E - 583557N 0145102E - 583141N 0144943E - 582942N 0144605E - 583141N 0143322E - 583319N 0143114E - 583348N 0143036E - 583520N 0143025E - 583549N 0143108E - 583720N 0143512E - 583908N 0143812E - 584044N 0144632E	21000 ft AMSL GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller KARLSBORG ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or KARLSBORG ATS.
ESR23 PRÄSTTOMTA	584054N 0152308E - 583835N 0152604E - 583550N 0152741E - 583429N 0152329E - 583513N 0151847E - 583858N 0151746E - 584054N 0152308E	18000 ft AMSL GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från ÖSTGÖTA APP eller STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from ÖSTGÖTA APP or STOCKHOLM ACC.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR24 DROTTNINGHOLM	A circle with radius 2000 m centred on 591920N 0175230E	2000 ft AMSL ——— GND	Särskilda tillstånd från Transportstyrelsen krävs förutom för svenska luftfartyg som används av Försvarsmakten, Polismyndigheten, Säkerhetspolisen, Kustbevakningen, Sjöfartsverket, Lantmäteriet, ambulanstransport med hög medicinsk prioritet eller med luftfartyg när de används i räddningsinsatser enligt bestämmelserna i lagen om skydd mot olyckor (2003:778). Special permission by Swedish Transport Agency is required, except for Swedish aircraft operated by Swedish Armed Forces, Police Authority, Swedish Security Service, Swedish Coast Guard, Swedish Maritime Administration, National Land Survey Office, ambulance transport with high medical priority or by aircraft engaged in rescue operations in accordance with Civil Protection Act (2003:778).
ESR25 ÅLLEBERG	A circle with radius 5.4 NM centred on 580758N 0133550E (N point of the mountain Ålleberg)	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.
ESR26 NORTHERN GOTLAND AND FÅRÖ	580258N 0190347E - 580258N 0192847E - 575628N 0192847E - 573459N 0185947E - 573859N 0184747E - 574658N 0183747E - 580158N 0185647E - 580258N 0190347E	UNL ——— GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ESR28A TOFTA	573742N 0181053E - 573524N 0181054E - 573430N 0181232E - 573258N 0181207E - 572859N 0180747E - 572829N 0180017E - 572936N 0175756E - 573314N 0175817E - 573619N 0180147E - 573705N 0180647E - 573742N 0181053E	27500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller VISBY ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or VISBY ATS.
ESR28B TOFTA	574058N 0175717E - 573705N 0180647E - 573619N 0180147E - 573314N 0175817E - 572936N 0175756E - 572829N 0180017E - 572729N 0175017E - 573528N 0175047E - 574058N 0175717E	27500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller VISBY ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or VISBY ATS.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR28C TOFTA	574205N 0181054E - 573742N 0181053E - 573705N 0180647E - 574058N 0175717E - 574205N 0181054E	27500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller VISBY ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or VISBY ATS.
ESR30A SKILLINGARYD	573041N 0140610E - 572928N 0141419E - 572128N 0141049E - 572058N 0140519E - 572910N 0140517E - 573041N 0140610E	24500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC, STOCKHOLM ACC, JÖNKÖPING ATS eller HAGSHULT ATS när Hagshult TMA är upprättat via NOTAM eller AIP SUP. Military activities including aviation operations. Permission obtainable from MALMÖ ACC, STOCKHOLM ACC, JÖNKÖPING ATS or HAGSHULT ATS when established by NOTAM or AIP SUP.
ESR30B SKILLINGARYD	572128N 0141049E - 571659N 0140919E - 571659N 0140449E - 572058N 0140519E - 572128N 0141049E	24500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC, STOCKHOLM ACC, JÖNKÖPING ATS eller HAGSHULT ATS när Hagshult TMA är upprättat via NOTAM eller AIP SUP. Military activities including aviation operations. Permission obtainable from MALMÖ ACC, STOCKHOLM ACC, JÖNKÖPING ATS or HAGSHULT ATS when established by NOTAM or AIP SUP.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR31 STORA AND LILLA KARLSÖ	A circle with radius 8 NM centred on 571759N 0175947E	FL 85 ——— GND	Fågelreservat. Upprättat 15 MAR-15 AUG. Särskilda tillstånd från Transportstyrelsen krävs utom för svenska luftfartyg som används i skarpa insatser av Försvarsmakten, Polismyndigheten, Säkerhetspolisen, Kustbevakningen, Sjöfartsverket, Tullverket, Lantmäteriet, ambulanstransport med hög medicinsk prioritet eller med luftfartyg när de används i räddningsinsatser enligt bestämmelserna i lagen om skydd mot olyckor (2003:778). Bird sanctuary. Established 15 MAR-15 AUG. Special permission from the Swedish Transport Agency is required with the following exceptions: Swedish aircraft used on mission by the Swedish Armed Forces, Police, Swedish Security Service, Swedish Coast Guard, Swedish Maritime Administration, Swedish Customs, ambulance transport with high medical priority or aircraft engaged in rescue operations in accordance with the Civil Protection Act (2003:778).
ESR32 NYÅRSÅSEN	564459N 0124650E - 564459N 0124850E - 564359N 0124950E - 564259N 0124850E - 564329N 0124550E - 564459N 0124650E	9500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller HALMSTAD ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or HALMSTAD ATS.
ESR33 ARCHIPELAGO OF BLEKINGE	561559N 0153649E - 561059N 0155749E - 560429N 0155849E - 555659N 0155149E - 555659N 0154149E - 560259N 0151819E - 560729N 0151819E - 561259N 0152149E - 561559N 0153649E	UNL ——— GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ESR34 RAVLUNDA	555623N 0142228E - clockwise along an arc centred on 554402N 0140944E and with radius 14.3 NM - 553407N 0142753E - 554325N 0141146E - 554319N 0140919E - 554514N 0140819E - 554609N 0140954E - 554544N 0141144E - 555623N 0142228E	17000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller KRISTIANSTAD ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or KRISTIANSTAD ATS.
ESR35 RAVLUNDA VÄST	554632N 0140547E - 554609N 0140954E - 554514N 0140819E - 554319N 0140919E - 554325N 0141146E - 554204N 0140717E - 554507N 0140358E - 554632N 0140547E	10500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller KRISTIANSTAD ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or KRISTIANSTAD ATS.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR37 HÄRAD	592158N 0165748E - 592052N 0170148E - 591844N 0165948E - 591844N 0165518E - 592028N 0165408E - 592128N 0165418E - 592158N 0165748E	10500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet upp till 2000 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations up to 2000 ft AMSL. Permission obtainable from STOCKHOLM ACC.
ESR38A RINKABY	555929N 0141619E - 555829N 0142019E - 555759N 0142849E - 555329N 0142149E - 555629N 0141919E - 555759N 0141549E - 555929N 0141619E	17000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller KRISTIANSTAD ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or KRISTIANSTAD ATS.
ESR38B RINKABY	560059N 0141649E - 560059N 0141919E - 555829N 0142019E - 555929N 0141619E - 560059N 0141649E	17000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller KRISTIANSTAD ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or KRISTIANSTAD ATS.
ESR39 EKSJÖ	A circle with radius 1.6 NM centred on 574058N 0145334E	11000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ESR40 KOSTA	565429N 0153219E - 565229N 0153349E - 564959N 0153049E - 565023N 0152719E - 565259N 0152719E - 565429N 0153219E	18500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ESR41A RINGENÄS	564559N 0123350E - 564159N 0124050E - 564159N 0124340E - 564119N 0124410E - 564019N 0124220E - 563359N 0124220E - 563559N 0123310E - 563959N 0122950E - 564259N 0122950E - 564559N 0123350E	40500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller HALMSTAD ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or HALMSTAD ATS.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR41B RINGENÄS	564559N 0123350E - 564329N 0124150E - 564119N 0124450E - 563359N 0124220E - 564019N 0124220E - 564119N 0124410E - 564159N 0124340E - 564159N 0124050E - 564559N 0123350E	3500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller HALMSTAD ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or HALMSTAD ATS.
ESR43 SÅGEBACKEN	582749N 0115513E - 582739N 0120127E - 582458N 0120150E - 582115N 0115747E - 582250N 0114919E - 582446N 0114755E - 582749N 0115513E	20200 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC, LANDVETTER, TROLLHÄTTAN eller SÅTENÄS ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC, LANDVETTER, TROLLHÄTTAN or SÅTENÄS ATS.
ESR45 MARMA	603351N 0172642E - 603243N 0173254E - 603011N 0173049E - 602709N 0172519E - 603351N 0172642E	14000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ESR46 JUNKÖN	653225N 0221943E - 652355N 0223243E - 651955N 0221943E - 652825N 0220643E - 653225N 0221943E	6100 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från KALLAX ATS. Military activities including aviation operations. Permission obtainable from KALLAX ATS. Området är upprättat (svenska helgdagar undantagna) MÅN - TORS 0730-1500 (0630-1400) FRE 0730-1100 (0630-1000). Under perioden 15 SEP - 1 APR även TIS och TORS 1500-2100 (1400-2000). Established (Swedish public holidays excluded) MON-THU 0730-1500 (0630-1400) FRI 0730-1100 (0630-1000). During the period 15 SEP-1 APR also TUE and THU 1500-2100 (1400-2000).

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR46A JUNKÖN	652752N 0222027E - 652643N 0222055E - 652457N 0222608E - 652315N 0221759E - 652531N 0221748E - 652552N 0221653E - 652716N 0221558E - 652752N 0222027E	6100 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller KALLAX ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or KALLAX ATS. Området är upprättat (svenska helgdagar undantagna) MÅN - TORS 0730-1500 (0630-1400) FRE 0730-1100 (0630-1000). Under perioden 15 SEP - 1 APR även TIS och TORS 1500-2100 (1400-2000). Established (Swedish public holidays excluded) MON-THU 0730-1500 (0630-1400) FRI 0730-1100 (0630-1000). During the period 15 SEP-1 APR also TUE and THU 1500-2100 (1400-2000).
ESR47 SAREK	673314N 0171211E - 673109N 0172407E - 673306N 0173438E - 673105N 0174536E - 672324N 0175841E - 672408N 0180515E - 672309N 0180815E - 671057N 0181818E - 670324N 0181545E - 670219N 0180059E - 670354N 0173716E - 671034N 0170826E - 672425N 0170442E - 673314N 0171211E	FL 100 ——— GND	Nationalpark. Särskilda tillstånd från Transportstyrelsen krävs förutom operatörer som framgår av ENR 5.1 punkt 2.4.2. National Park. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.2.
ESR49 SÅTENÄS	583058N 0124050E - 583058N 0124550E - 582458N 0125450E - 582158N 0124450E - 582758N 0123750E - 583058N 0124050E	7500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från SÅTENÄS ATS och LANDVETTER ATS. Military activities including aviation operations. Permission obtainable from SÅTENÄS ATS or LANDVETTER ATS.
ESR49A SÅTENÄS	583058N 0124050E - 583058N 0124550E - 582458N 0125450E - 582258N 0124810E - 582658N 0124229E - 582758N 0124026E - 582928N 0123920E - 583058N 0124050E	7500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från SÅTENÄS ATS och LANDVETTER ATS. Military activities including aviation operations. Permission obtainable from SÅTENÄS ATS or LANDVETTER ATS.
ESR49B SÅTENÄS	582928N 0123920E - 582758N 0124026E - 582658N 0124229E - 582258N 0124810E - 582158N 0124450E - 582758N 0123750E - 582928N 0123920E	7500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från SÅTENÄS ATS och LANDVETTER ATS. Military activities including aviation operations. Permission obtainable from SÅTENÄS ATS or LANDVETTER ATS.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR49C SÅTENÄS	582934N 0124114E - 582934N 0124437E - 582658N 0124553E - 582642N 0124420E - 582658N 0124229E - 582758N 0124026E - 582934N 0124114E	7500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från SÅTENÄS ATS och LANDVETTER ATS. Military activities including aviation operations. Permission obtainable from SÅTENÄS ATS or LANDVETTER ATS.
ESR50 MÄSTOCKA	564329N 0130650E - 564329N 0132250E - 563659N 0132150E - 563259N 0131550E - 563939N 0130050E - 564329N 0130650E	11000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC, HALMSTAD ATS eller ÄNGELHOLM ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC, HALMSTAD ATS or ÄNGELHOLM ATS.
ESR51A KALIXFORS	674659N 0202044E - 674554N 0203044E - 674323N 0203652E - 674007N 0203743E - 674208N 0202510E - 674405N 0202018E - 674659N 0202044E	14000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet med UAS upp till 1900 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC eller KIRUNA ATS. Military activities including aviation operations with UAS up to 1900 ft AMSL. Permission obtainable from STOCKHOLM ACC or KIRUNA ATS.
ESR51B KALIXFORS	674745N 0201710E - 674659N 0202044E - 674405N 0202018E - 674404N 0201427E - 674734N 0201514E - 674745N 0201710E	14000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet med UAS upp till 1900 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC eller KIRUNA ATS. Military activities including aviation operations with UAS up to 1900 ft AMSL. Permission obtainable from STOCKHOLM ACC or KIRUNA ATS.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR52 SOLLIDEN	565238N 0163713E - 565155N 0163912E - 565126N 0163850E - 565049N 0163738E - 565129N 0163548E - 565234N 0163548E - 565238N 0163713E	2000 ft AMSL ——— GND	Upprättat 1 JUN-20 AUG. Särskilda tillstånd från Transportstyrelsen krävs förutom för svenska militära luftfartyg, svenska luftfartyg som används av Polismyndigheten, Försvarsmakten, Kustbevakningen, Lantmäteriet och luftfartyg när de används i räddningsinsatser enligt bestämmelserna i lagen (2003:778) om skydd mot olyckor. Established 1 JUN-20 AUG. Special permission by Swedish Transport Agency is required with the following exceptions: Military aircraft and Swedish aircraft used by Police, Swedish Armed Forces, Coastguard, National Land Survey and aircraft engaged in rescue operations in accordance with Civil Protection Act (2003:778).
ESR53 STORA SJÖFALLET	674805N 0173707E - 674129N 0180937E - 672645N 0184915E - 672354N 0184312E - 672202N 0182815E - 672633N 0181425E - 672408N 0180515E - 672324N 0175841E - 673105N 0174536E - 673306N 0173438E - 673109N 0172407E - 673314N 0171211E - 673404N 0171102E - 674805N 0173707E	FL 95 ——— GND	Nationalpark. Särskilda tillstånd från Transportstyrelsen krävs förutom operatörer som framgår av ENR 5.1 punkt 2.4.2. National Park. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.2.
ESR55 KABUSA	552629N 0135750E - 552629N 0135949E - 551659N 0140619E - 551659N 0135550E - 552124N 0134750E - 552629N 0135750E	27500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC. Military activities including aviation operations. Permission obtainable from MALMÖ ACC.
ESR56 FALUN	603857N 0153948E - 603857N 0154548E - 603627N 0154548E - 603627N 0153948E - 603857N 0153948E	8000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ESR57 PADJELANTA	674433N 0163720E - 673404N 0171102E - 673314N 0171211E - 672425N 0170442E - 671034N 0170826E - 670614N 0170946E - 671026N 0164735E - 670851N 0163846E - 671442N 0163346E - 671311N 0162302E - Swedish/Norwegian border northward to 674433N 0163720E	FL 90 ——— GND	Nationalpark. Särskilda tillstånd från Transportstyrelsen krävs förutom operatörer som framgår av ENR 5.1 punkt 2.4.2. National Park. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.2.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR58A TÅME	650325N 0214244E - 645455N 0214444E - 644835N 0212944E - 644911N 0211514E - 645925N 0211844E - 650325N 0214244E	40500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet upp till FL95. Tillstånd kan erhållas från STOCKHOLM ACC, LULEÅ ATS eller SKELLEFTEÅ ATS. Military activities including aviation operations up to FL95. Permission obtainable from STOCKHOLM ACC, LULEÅ ATS or SKELLEFTEÅ ATS.
ESR58B TÅME	650255N 0212244E - 650115N 0212944E - 645925N 0211844E - 645355N 0211650E - 645655N 0210944E - 650156N 0211245E - 650255N 0212244E	3500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC, LULEÅ ATS eller SKELLEFTEÅ ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC, LULEÅ ATS or SKELLEFTEÅ ATS.
ESR59 KUSTRÄSK	655655N 0212944E - 655555N 0213544E - 655225N 0213544E - 655155N 0212444E - 655455N 0212044E - 655655N 0212944E	15500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller KALLAX ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or KALLAX ATS.
ESR60 LYSEKIL	582458N 0104221E - 582458N 0111151E - 581028N 0112221E - 575358N 0111851E - 575358N 0110251E - 581528N 0105051E - 582458N 0104221E	40500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC or LANDVETTER ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or LANDVETTER ATS.
ESR61 SÅNFJÄLLET	622026N 0132849E - 622026N 0134019E - 621556N 0134149E - 621326N 0133549E - 621326N 0132519E - 621456N 0132419E - 622026N 0132849E	FL 70 ——— GND	Nationalpark. Särskilda tillstånd från Transportstyrelsen krävs förutom operatörer som framgår av ENR 5.1 punkt 2.4.2. National Park. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.2.
ESR62 SISJÖN	573905N 0115950E - 573658N 0120250E - 573458N 0115950E - 573628N 0115620E - 573905N 0115950E	1800 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet upp till 1000 ft AMSL. Tillstånd kan erhållas från MALMÖ ACC eller LANDVETTER ATS. Military activities including aviation operations up to 1000 ft AMSL. Permission obtainable from MALMÖ ACC or LANDVETTER ATS.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR63A STURKÖ NORD	560659N 0152849E - 560659N 0153719E - 560349N 0154719E - 555659N 0154719E - 555359N 0153949E - 555959N 0153949E - 560229N 0153604E - 560416N 0152349E - 560659N 0152849E	40500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or RONNEBY ATS.
ESR63B STURKÖ SYD	560416N 0152349E - 560229N 0153604E - 555959N 0153949E - 555359N 0153949E - 555429N 0153349E - 555759N 0152749E - 560416N 0152349E	40500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or RONNEBY ATS.
ESR63C STURKÖ INRE	561123N 0153027E - 560953N 0154829E - 560349N 0154719E - 560659N 0153719E - 560659N 0152849E - 561123N 0153027E	3500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or RONNEBY ATS.
ESR63D STURKÖ POTTNEHOLMEN	560854N 0153920E - 560854N 0153954E - 560830N 0153954E - 560830N 0153920E - 560854N 0153920E	2200 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or RONNEBY ATS.
ESR63E STURKÖ AU RUTA	560000N 0153300E - 560000N 0153700E - 555758N 0153700E - 555758N 0153300E - 560000N 0153300E	2200 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or RONNEBY ATS.
ESR64M TORHAMN	560759N 0161648E - 555659N 0160648E - 560439N 0155039E - 560459N 0154949E - 560759N 0161648E	21500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or RONNEBY ATS.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR64S TORHAMN	561459N 0160248E - 560959N 0162948E - 560459N 0162948E - 554959N 0154719E - 560349N 0154719E - 561459N 0160248E	40500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or RONNEBY ATS.
ESR66 ASKÖ	585458N 0174117E - 585158N 0175217E - 583804N 0175259E - 584358N 0173547E - 584728N 0173347E - 585158N 0173447E - 585458N 0174117E	7500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ESR67 VECKHOLM	593106N 0172402E - 593048N 0172951E - 592916N 0172931E - 592741N 0172750E - 592950N 0172342E - 593106N 0172402E	2000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet upp till 1500 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations up to 1500 ft AMSL. Permission obtainable from STOCKHOLM ACC.
ESR68 GRINDSJÖN	590528N 0174947E - 590528N 0175257E - 590258N 0175047E - 590428N 0174747E - 590528N 0174947E	2000 ft AMSL ——— GND	Skjutning, sprängning och UAS. Tillstånd kan erhållas från STOCKHOLM ACC. Upprättat MÅN-FRE 0700-1530 (0600-1430). Firing, blasting and UAS. Permission obtainable from STOCKHOLM ACC. Established MON-FRI 0700-1530 (0600-1430).
ESR70A HÄRNÖN	624656N 0181146E - 624656N 0183946E - 623836N 0183946E - 622656N 0182046E - 622656N 0175647E - 623356N 0175847E - 624656N 0181146E	28000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller SUNDSVALL ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or SUNDSVALL ATS.
ESR70B PRÄSTHUS	624556N 0180746E - 624556N 0181051E - 623956N 0180447E - 623956N 0180032E - 624126N 0180047E - 624556N 0180746E	4500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller SUNDSVALL ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or SUNDSVALL ATS.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR70C VANGSTA	623956N 0180032E - 623956N 0180946E - 623556N 0180547E - 623556N 0175947E - 623956N 0180032E	16500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller SUNDSVALL ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or SUNDSVALL ATS.
ESR70D SKÄRSVIKEN	623556N 0175747E - 623556N 0180047E - 623356N 0175847E - 623156N 0175807E - 623356N 0175247E - 623556N 0175747E	4500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller SUNDSVALL ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or SUNDSVALL ATS.
ESR71 NÅTTARÖ	590058N 0182917E - 585408N 0190132E - 584828N 0185017E - 584023N 0183024E - 583243N 0181147E - 582943N 0175817E - 583459N 0175457E - 583804N 0175259E - 585158N 0175217E - 585218N 0175747E - 585458N 0180724E - 590058N 0182917E	40500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ESR71A NÅTTARÖ	585458N 0180724E - 583459N 0175457E - 583804N 0175259E - 585158N 0175217E - 585218N 0175747E - 585458N 0180724E	40500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ESR71B NÅTTARÖ	585458N 0180724E - 584341N 0181404E - 583459N 0175457E - 585458N 0180724E	40500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ESR71C NÅTTARÖ	585458N 0180724E - 584858N 0182548E - 584540N 0181827E - 584341N 0181404E - 585458N 0180724E	40500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR71D NÅTTARÖ	590058N 0182917E - 585358N 0183047E - 584858N 0182548E - 585458N 0180724E - 590058N 0182917E	40500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ESR71E NÅTTARÖ	584540N 0181827E - 584023N 0183024E - 583243N 0181147E - 582943N 0175817E - 583459N 0175457E - 584341N 0181404E - 584540N 0181827E	40500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ESR71F NÅTTARÖ	590058N 0182917E - 585408N 0190132E - 584828N 0185017E - 584023N 0183024E - 584540N 0181827E - 584858N 0182548E - 585358N 0183047E - 590058N 0182917E	40500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ESR74 ARVIDSJAUR	653525N 0190315E - 653525N 0190845E - 653355N 0191245E - 653125N 0191515E - 652955N 0191415E - 652825N 0190345E - 653255N 0190215E - 653525N 0190315E	15500 ft AMSL ——— GND	Militär verksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller ARVIDSJAUR ATS. Military activities. Permission obtainable from STOCKHOLM ACC or ARVIDSJAUR ATS.
ESR74A ARVIDSJAUR	653525N 0190315E - 653125N 0191515E - 652955N 0191415E - 652825N 0190345E - 653255N 0190215E - 653525N 0190315E	15500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller ARVIDSJAUR ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or ARVIDSJAUR ATS.
ESR74B ARVIDSJAUR	653525N 0190315E - 653525N 0190845E - 653355N 0191245E - 653125N 0191515E - 653525N 0190315E	15500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet upp till 1600 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC eller ARVIDSJAUR ATS. Military activities including aviation operations up to 1600 ft AMSL. Permission obtainable from STOCKHOLM ACC or ARVIDSJAUR ATS.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR75 SKÖVDE	581928N 0135149E - 581858N 0135549E - 581528N 0135449E - 581558N 0134949E - 581928N 0135149E	10000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC. Military activities including aviation operations. Permission obtainable from MALMÖ ACC.
ESR76 LOMBEN	661455N 0230842E - 660955N 0231242E - 660655N 0231142E - 660955N 0225543E - 661355N 0225643E - 661455N 0230842E	14500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ESR77 SKOGSTIBBLE	594927N 0171747E - 594658N 0171847E - 594658N 0171347E - 594857N 0171347E - 594927N 0171747E	3500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet upp till 1200 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC eller UPPSALA ATS. Military activities including aviation operations up to 1200 ft AMSL. Permission obtainable from STOCKHOLM ACC or UPPSALA ATS.
ESR78 HORSSJÖN	594657N 0134419E - 594557N 0134949E - 594147N 0134949E - 594157N 0134449E - 594357N 0134249E - 594657N 0134419E	8500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet upp till 4000 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC eller KARLSTAD ATS. Military activities including aviation operations up to 4000 ft AMSL. Permission obtainable from STOCKHOLM ACC or KARLSTAD ATS.
ESR85 HOLMÖGADD	634056N 0205045E - 634056N 0205515E - 633156N 0204615E - 633456N 0204015E - 634056N 0205045E	UNL ——— GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ESR87 SÖDERARM	595243N 0190635E - 595038N 0191356E - 594728N 0192216E - 594428N 0192446E - 593928N 0191146E - 594658N 0190247E - 595243N 0190635E	UNL ——— GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ESR88 LANDSORT	585328N 0174202E - 583958N 0175117E - 584839N 0173751E - 585328N 0174202E	UNL ——— GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR91 STÄRNÖ	A circle with radius 1.6 NM centred on 560829N 0145049E	UNL ——— GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ESR93 STYRSÖ	573918N 0114317E - 573918N 0114701E - 573721N 0114735E - 573644N 0114920E - 573528N 0114925E - 573458N 0114250E - 573918N 0114317E	UNL ——— GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ESR95 MARSTRAND	575711N 0114306E - 575623N 0114450E - 575435N 0114222E - 575458N 0113838E - 575711N 0114306E	UNL ——— GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ESR96 BERGA	590536N 0180806E - 590450N 0180852E - 590414N 0180640E - 590406N 0180635E - 590347N 0180524E - 590427N 0180412E - 590536N 0180806E	2200 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet upp till 1500 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations up to 1500 ft AMSL. Permission obtainable from STOCKHOLM ACC.
ESR97 KUMLA	A circle with radius 2000 m centred on 590715N 0150718E	2000 ft AMSL ——— GND	Fängelse. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 punkt 2.2.2. Prison. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.2.2.
ESR98 HALL	A circle with radius 2000 m centred on 590946N 0174059E	2000 ft AMSL ——— GND	Fängelse. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 punkt 2.2.2. Prison. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.2.2.
ESR99 TIDAHOLM	A circle with radius 2000 m centred on 581043N 0135558E	2000 ft AMSL ——— GND	Fängelse. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 punkt 2.2.2. Prison. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.2.2.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR100 SALTVIK	A circle with radius 2000 m centred on 623914N 0175343E	2000 ft AMSL ——— GND	Fängelse. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 punkt 2.2.2. Prison. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.2.2.
ESR101 NORRTÄLJE	A circle with radius 2000 m centred on 594612N 0184226E	2000 ft AMSL ——— GND	Fängelse. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 punkt 2.2.2. Prison. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.2.2.
ESR102 HAGA	A circle with radius 1000 m centred on 592150N 0180220E	2000 ft AMSL ——— GND	Särskilda tillstånd från Transportstyrelsen krävs, förutom för luftfartyg specificerade i ENR 5.1 punkt 2.4.1. Med tillstånd från STOCKHOLM/Bromma ATS, kan passering enligt visuellflygregler få äga rum i samband med start eller landning på STOCKHOLM/Bromma flygplats. Med tillstånd från STOCKHOLM/Bromma ATS eller STOCKHOLM ACC kan passering med varmluftsballong få äga rum, på lägsta höjden 1000 ft AMSL, om inte Transportstyrelsen tillfälligt dragit tillbaka denna möjlighet. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.1. With permission obtained from STOCKHOLM/Bromma ATS, crossing of the area according to visual flight rules may be carried out in conjuction with take-off or landing at STOCKHOLM/Bromma aerodrome. With permission obtained from STOCKHOLM/Bromma ATS or STOCKHOLM ACC crossing of the area with manned hot air balloon may be conducted at lowest 1000 ft AMSL, unless Swedish Transport Agency has temporarily revoked this option.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR103 REMMENE	580417N 0125956E - 580125N 0130014E - 580011N 0125635E - 580044N 0125404E - 580232N 0125256E - 580417N 0125956E	20200 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller LANDVETTER ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or LANDVETTER ATS.
ESR104 KÄNSÖ	574000N 0111251E - 574000N 0112851E - 574000N 0113514E - 574000N 0114424E - 573720N 0114546E - 573458N 0114650E - 573310N 0114533E - 573030N 0114339E - 573030N 0112851E - 573030N 0112631E - 574000N 0111251E	9000 ft AMSL ——— GND	Militär verksamhet. Tillstånd kan erhållas från MALMÖ ACC eller LANDVETTER ATS. Military activities. Permission obtainable from MALMÖ ACC or LANDVETTER ATS.
ESR104A KÄNSÖ	574000N 0113514E - 574000N 0114424E - 573720N 0114546E - 573458N 0114650E - 573310N 0114533E - 573310N 0113825E - 574000N 0113514E	9000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet upp till 2000 ft AMSL. Tillstånd kan erhållas från MALMÖ ACC eller LANDVETTER ATS. Military activities including aviation operations up to 2000 ft AMSL. Permission obtainable from MALMÖ ACC or LANDVETTER ATS.
ESR104B KÄNSÖ	574000N 0112851E - 574000N 0113514E - 574000N 0114424E - 573720N 0114546E - 573458N 0114650E - 573030N 0114339E - 573030N 0112851E - 574000N 0112851E	9000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet upp till 2000 ft AMSL. Tillstånd kan erhållas från MALMÖ ACC eller LANDVETTER ATS. Military activities including aviation operations up to 2000 ft AMSL. Permission obtainable from MALMÖ ACC or LANDVETTER ATS.
ESR104C KÄNSÖ	574000N 0111251E - 574000N 0112851E - 573030N 0112851E - 573030N 0112631E - 574000N 0111251E	9000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet upp till 2000 ft AMSL. Tillstånd kan erhållas från MALMÖ ACC eller LANDVETTER ATS. Military activities including aviation operations up to 2000 ft AMSL. Permission obtainable from MALMÖ ACC or LANDVETTER ATS.
ESR105 TUMBA	A circle with radius 1000 m centred on 591205N 0174930E	2000 ft AMSL ——— GND	Särskilt tillstånd från Transportstyrelsen krävs förutom för operatörer specificerade i ENR 5.1 punkt 2.4.1. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.1.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR106 VÄXJÖ	A circle with radius 1000 m centred on 565203N 0144943E	1600 ft AMSL ——— GND	Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 punkt 2.4.1 och luftfartyg som används för kraftledningsinspektion inom området, luftfartyg som används för flygvalidering av VÄXJÖ/Kronoberg flygplats och UAS som används av rättspsykiatriska regionkliniken i Växjö, upp till 120 m GND. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.1 and aircraft performing power line inspection within the area, aircraft performing measurement assignments for VÄXJÖ/Kronoberg AD and UAS operated by Kronoberg Forensic Clinic, up to 120 m GND.
ESR107 FORSMARK	A circle with radius 1 NM centred on 602412N 0181030E	2000 ft AMSL ——— GND	Kärnkraftverk. Särskilda tillstånd från Transportstyrelsen krävs förutom för UAS-verksamhet som genomförs av Forsmark Kraftgrupp AB och Svensk Kärnbränslehantering AB upp till 120 m GND, eller operatörer som framgår av ENR 5.1 punkt 2.4.1. Nuclear power plant. Special permission by Swedish Transport Agency is required, except for UAS-operations conducted by Forsmark Kraftgrupp AB and Svensk Kärnbränslehantering AB up to 120 m GND or operators specified in ENR 5.1 para 2.4.1.
ESR108 OSKARSHAMN	A circle with radius 1 NM centred on 572454N 0164018E	2000 ft AMSL ——— GND	Kärnkraftverk. Särskilda tillstånd från Transportstyrelsen krävs förutom för UAS-verksamhet som genomförs av OKG AB och Svensk Kärnbränsle-hantering AB upp till 120 m GND, eller operatörer som framgår av ENR 5.1 punkt 2.4.1. Nuclear power plant. Special permission by Swedish Transport Agency is required, except for UAS-operations conducted by OKG AB and Svensk Kärnbränslehantering AB up to 120 m GND or operators specified in ENR 5.1 para 2.4.1.
ESR109 RINGHALS	A circle with radius 1 NM centred on 571530N 0120636E	2000 ft AMSL ——— GND	Kärnkraftverk. Särskilt tillstånd från Transportstyrelsen krävs förutom för operatörer som framgår av ENR 5.1 punkt 2.4.1 och för UAS som används av kärnkraftverket, upp till 120 m GND. Nuclear power plant. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.1 and UAS operated by the nuclear power plant up to 120 m GND.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR110 HUDDINGE	A circle with radius 1000 m centred on 591252N 0175557E	1500 ft AMSL ——— GND	Särskilt tillstånd från Transportstyrelsen krävs förutom för operatörer specificerade i ENR 5.1 punkt 2.4.1. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.1
ESR111 SÖRENTORP	A circle with radius 1000 m centred on 592348N 0175929E	2000 ft AMSL ——— GND	Särskilda tillstånd från Transportstyrelsen krävs förutom för svenska luftfartyg som används av Försvarsmakten, Polismyndigheten, Säkerhetspolisen, Kustbevakningen, Sjöfartsverket, Lantmäteriet, ambulanstransport med hög medicinsk prioritet eller med luftfartyg när de används i räddningsinsatser enligt bestämmelserna i lagen om skydd mot olyckor (2003:778). Special permission by Swedish Transport Agency is required, except for Swedish aircraft operated by Swedish Armed Forces, Police Authority, Swedish Security Service, Swedish Coast Guard, Swedish Maritime Administration, National Land Survey Office, ambulance transport with high medical priority or by aircraft engaged in rescue operations in accordance with Civil Protection Act (2003:778).
ESR112 VÄLLINGE	A circle with radius 1.8 NM centred on 591543N 0174053E	2000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ESR113 STOCKHOLM	592015N 0180200E - 592010N 0180509E - 591914N 0180429E - 591940N 0180141E - 592015N 0180200E	1000 ft AMSL ——— GND	Drönarflygning är förbjuden med följande undantag : Drönare som används av polisen, svenska Försvarsmakten, Lantmäteriet och drönare engagerade i räddningsverksamhet i enlighet med Lag (2003:778) om skydd mot olyckor. Tillstånd kan erhållas från Transportstyrelsen. Drone flights are prohibited with the following exceptions: Drones used by Police, Swedish Armed Forces, National Land Survey and Drones engaged in rescue operations in accordance with Civil Protection act (2003:778). Permission obtainable from the Swedish Transport Agency.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR114 DJURÖ	585235N 0132759E - 585232N 0132917E - 585117N 0133052E - 585008N 0133035E - 584933N 0132803E - 584924N 0132433E - 584953N 0132419E - 585235N 0132759E	1200 ft AMSL GND	Nationalpark. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 punkt 2.4.2. National Park. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.2.
ESR115 FULUFJÄLLET	614034N 0123741E - 613440N 0125503E - 612435N 0125531E - 612316N 0124941E - Swedish/Norwegian border northward to 613407N 0123125E - 613932N 0123015E - 614034N 0123741E	FL 70 GND	Nationalpark. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 punkt 2.4.2. National Park. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.2.
ESR116 FÄRNEBOFJÄRDEN	601744N 0165024E - 601731N 0165238E - 601631N 0165258E - 601547N 0165447E - 601422N 0165346E - 601540N 0165139E - 601500N 0164941E - 601318N 0165159E - 601030N 0164634E - 600840N 0164855E - 600553N 0164327E - 600753N 0164141E - 600852N 0164422E - 601143N 0164211E - 601100N 0163917E - 601120N 0163832E - 601159N 0164139E - 601303N 0164125E - 601408N 0164506E - 601251N 0164744E - 601715N 0164841E - 601744N 0165024E	1200 ft AMSL GND	Nationalpark. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 punkt 2.4.2. National Park. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.2.
ESR117 NYNÄSHAMN	A circle with radius 1000 m centred on 585523N 0175804E	1400 ft AMSL GND	Oljeraffinaderi. Särskilda tillstånd från Transportstyrelsen krävs förutom för UAS-verksamhet som genomförs av Nynas AB upp till 120 m GND, eller operatörer som framgår av ENR 5.1 punkt 2.4.1. Oil refinery. Special permission by Swedish Transport Agency is required, except for UAS-operations conducted by Nynas AB up to 120 m GND or operators specified in ENR 5.1 para 2.4.1.
ESR118 TÄRNÖ NORTH	560659N 0150449E - 560416N 0152349E - 555759N 0152749E - 555429N 0153349E - 555810N 0144850E - 560629N 0145819E - 560659N 0150449E	40500 ft AMSL GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC och RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC and RONNEBY ATS.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR119 TÄRNÖ WEST	555810N 0144850E - 555629N 0150949E - 555353N 0150949E - 555354N 0150930E - 555333N 0150905E - 555312N 0150840E - 555252N 0150813E - 555233N 0150744E - 555214N 0150715E - 555203N 0150658E - 555150N 0150635E - 555132N 0150603E - 555115N 0150531E - 555059N 0150457E - 555043N 0150422E - 555028N 0150346E - 555014N 0150310E - 555000N 0150232E - 554951N 0150206E - 554939N 0150130E - 554927N 0150051E - 554916N 0150011E - 554905N 0145931E - 554855N 0145850E - 554848N 0145816E - 554843N 0145751E - 554835N 0145709E - 554827N 0145626E - 554821N 0145543E - 554815N 0145500E - 554810N 0145416E - 554807N 0145332E - 554804N 0145248E - 554756N 0145019E - 554748N 0144756E - 554719N 0144531E - 554648N 0144302E - 554617N 0144032E - 554609N 0143949E - 554959N 0143949E - 555810N 0144850E	40500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC och RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC and RONNEBY ATS.
ESR120 TÄRNÖ EAST	555629N 0150949E - 555359N 0153949E - 554452N 0153949E - 554452N 0153945E - 554455N 0153901E - 554459N 0153817E - 554504N 0153733E - 554509N 0153650E - 554516N 0153607E - 554523N 0153524E - 554531N 0153442E - 554540N 0153401E - 554550N 0153320E - 554600N 0153239E - 554612N 0153200E - 554624N 0153121E - 554637N 0153042E - 554650N 0153005E - 554705N 0152929E - 554720N 0152853E - 554735N 0152818E - 554752N 0152745E - 554809N 0152712E - 554827N 0152640E - 554835N 0152626E - 555011N 0152345E - 555148N 0152103E - 555323N 0151824E - 555337N 0151412E - 555348N 0151111E - 555353N 0150949E - 555629N 0150949E	40500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC och RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC and RONNEBY ATS.
ESR121 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.
ESR121A 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.
ESR121B REVINGE	554629N 0134202E - 553809N 0134045E - 553820N 0133819E - 553827N 0133632E - 553841N 0132931E - 554610N 0133616E - 554629N 0134202E	2000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC. Military activities including aviation operations. Permission obtainable from MALMÖ ACC.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR122 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.
ESR123 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.
ESR124 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.
ESR125 GÖTEBORG	574231N 0115839E - 574231N 0115920E - 574211N 0115926E - 574211N 0115826E - 574231N 0115839E	1000 ft AMSL ——— GND	Flygning med drönare är förbjuden. Särskilda tillstånd från Transportstyrelsen krävs utom för drönare som används av polisen, svenska Försvarsmakten, Lantmäteriet och drönare engagerade i räddningsverksamhet i enlighet med lagen (2003:778) om skydd mot olyckor. Flying with drones is prohibited. Special permission by Swedish Transport Agency is required except for drones used by Police, Swedish Armed Forces, National Land Survey and drones engaged in rescue operations in accordance with Civil Protection act (2003:778).
ESR126 RÅGÅRDEN	A circle with radius 0.3 NM centred on 574723N 0120703E	1300 ft AMSL ——— GND	Rättspsykiatrisk klinik. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 punkt 2.4.1 och UAS som används av Rågårdens rättspsykiatriska klinik, upp till 120 m GND. Forensic psychiatric clinic. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.1 and UAS operated by Rågården Forensic Clinic, up to 120 m GND.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR127 SOLNA	A circle with radius 0.5 NM centred on 592109N 0180038E	2000 ft AMSL ——— GND	Flygning med drönare är förbjuden. Särskilda tillstånd från Transportstyrelsen krävs utom för drönare som används av Säkerhetspolisen, Polismyndigheten, svenska Försvarsmakten och drönare engagerade i räddningsverksamhet i enlighet med lagen (2003:778) om skydd mot olyckor. Flying with drones is prohibited. Special permission by the Swedish Transport Agency is required except for drones used by Security Police, Police authority, Swedish Armed Forces and drones engaged in rescue operations in accordance with the Civil Protection Act (2003:778).
ESR128 HARPSUND	A circle with radius 1 NM centred on 590601N 0162852E	2000 ft AMSL ——— GND	Särskilda tillstånd från Transportstyrelsen krävs förutom för svenska luftfartyg som används av Försvarsmakten, samt Polismyndigheten, Kustbevakningen och Sjöfartsverket på skarpa uppdrag, dessutom ambulanstransport med hög medicinsk prioritet, Regeringskansliet, Säkerhetspolisen, Statens fastighetsverk, Harpsundsnämnden och luftfartyg när de används i räddningsinsatser enligt bestämmelserna i lagen om skydd mot olyckor (2003:778). Special permission from the Swedish Transport Agency is required, except for Swedish aircraft operated by the Swedish Armed Forces, the Police, the Swedish Maritime Administration on mission, air ambulance transport with high medical priority, the Government Offices, the Swedish Security Service, the National Property Board, the Harpsund Committee and aircraft used in rescue operations in accordance with the Civil Protection Act (2003:778).
ESR200A 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.
ESR200B 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.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR204 ÅLLEBERG 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.
ESR204A ÅLLEBERG 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.
ESR204B ÅLLEBERG 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.
ESR208 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.
ESR208A 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.
ESR208B 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.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESR209A 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.
ESR209B 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.
ESR210 HEDLANDA	A circle with radius 22 NM centred on 622603N 0133224E	FL 195 ——— FL 95	VFR Segelflygområde upprättas 1 MAR-31 OKT. Tillstånd för passage ska inhämtas från STOCKHOLM ACC. VFR soaring area established 1 MAR-31 OCT. Permission to cross shall be obtained from STOCKHOLM ACC.

3 Farliga områden

3.1 Allmänt

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

3.1.2 Farligt område är upprättat H24 om inte annat anges.

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

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

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

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

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

3.2 Område inom vilket skjutning från marken förekommer

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

3.3 Område inom vilket skjutning från luftfartyg mot luftmål förekommer

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

3.4 Dagbrott

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

3.5 Tillfälliga farliga områden

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

3 Danger areas

3.1 General

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

3.1.2 Danger areas are established H24 unless otherwise specified.

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

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

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

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

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

3.2 Areas where ground firing is being practised

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

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

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

3.4 Surface quarries

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

3.5 Temporary danger areas

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

3.6 Flight Plan Buffer Zone (FBZ)

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

3.7 Område inom vilket flygning sker med obemannade luftfartyg.

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

3.8 Förteckning över farliga områden / List of danger areas

3.6 Flight Plan Buffer Zone (FBZ)

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

3.7 Area where operations with unmanned aircraft systems takes place.

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

Danger areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESD138 BORNHOLM NORTH	552959N 0151449E - 552959N 0154949E - 551959N 0154949E - 550300N 0151449E - 552959N 0151449E	20000 ft AMSL ——— GND	AMC Manageable Area. Se punkt 3.1.1. Begäran om nyttjande lämnas 7 dagar innan start till AMC SWEDEN, via e-post till amc.sweden@lfv.se, med begärd tid, höjd, användare och typ av aktivitet. Planerade aktiviteter kommer att meddelas på NOTAM. Förhandsinformation om aktivitet kan erhållas av AMC SWEDEN, H24, TEL +46 (0)40 613 27 01. Information om pågående verksamhet kan erhållas av MALMÖ ACC. Under skjutningen kommer området att övervakas med radar. Rutter eller nivåer som är fria från området kommer att anvisas av MALMÖ ACC. AMC Manageable Area. See para 3.1.1. Request for allocation to be submitted 7 days prior to AMC SWEDEN, via e-mail to amc.sweden@lfv.se, stating requested HR, levelband, intended user and confirmation of type of activity. Planned activities will be notified by NOTAM. Pre-flight Information about activity can be obtained by AMC SWEDEN, H24, TEL +46 (0)40 613 27 01. In-flight information can be obtained by MALMÖ ACC. During firing the area will be surveilled by radar. Routes or levels that are free of the area will be assigned by MALMÖ ACC.

Danger areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESD139 BORNHOLM EAST	551959N 0154949E - 545500N 0154949E - 545500N 0151449E - 550300N 0151449E - 551959N 0154949E	50000 ft AMSL ——— GND	AMC Manageable Area. Se punkt 3.1.1. Begäran om nyttjande lämnas 7 dagar innan start till AMC SWEDEN, via e-post till amc.sweden@lfv.se, med begärd tid, höjd, användare och typ av aktivitet. Planerade aktiviteter kommer att meddelas på NOTAM. Förhandsinformation om aktivitet kan erhållas av AMC SWEDEN, H24, TEL +46 (0)40 613 27 01. Information om pågående verksamhet kan erhållas av MALMÖ ACC. Under skjutningen kommer området att övervakas med radar. Rutter eller nivåer som är fria från området kommer att anvisas av MALMÖ ACC. AMC Manageable Area See para 3.1.1. Request for allocation to be submitted 7 days prior to AMC SWEDEN, via e-mail to amc.sweden@lfv.se, stating requested HR, levelband, intended user and confirmation of type of activity. Planned activities will be notified by NOTAM. Pre-flight Information about activity can be obtained by AMC SWEDEN, H24, TEL +46 (0)40 613 27 01. In-flight information can be obtained by MALMÖ ACC. During firing the area will be surveilled by radar. Routes or levels that are free of the area will be assigned by MALMÖ ACC.
ESD155 AITIK	670604N 0205605E - 670557N 0205759E - 670537N 0205929E - 670318N 0210053E - 670233N 0205823E - 670317N 0205508E - 670503N 0205327E - 670604N 0205605E	4000 ft AMSL ——— GND	Sprängning/Dagbrott. Information om aktivitet ges av Boliden Mineral AB, TEL +46 (0)70 508 39 49 eller +46 (0)970 72 90 53. Blasting/surface quarry. Information about activity obtainable from Boliden Mineral AB, TEL +46 (0)70 508 39 49 or +46 (0)970 72 90 53.
ESD156 LIIKAVAARA	670557N 0205759E - 670535N 0210354E - 670422N 0210430E - 670318N 0210053E - 670537N 0205929E - 670557N 0205759E	4000 ft AMSL ——— GND	Sprängning/Dagbrott. Upprättat dagligen 1700-2000 (1600-1900). Information om aktivitet ges av Boliden Mineral AB, TEL +46 (0)70 508 39 49 eller +46 (0)970 72 90 53. Blasting/Surface quarry. Established daily 1700-2000 (1600-1900). Information about activity obtainable from Boliden Mineral AB, TEL +46 (0)70 508 39 49 or +46 (0)970 72 90 53.

Danger areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESD160 SKAGEN	582458N 0103451E - 582458N 0104221E - 581528N 0105051E - 575358N 0110251E - 575358N 0110051E - 582458N 0103451E	40500 ft AMSL ——— GND	Se punkt 3.1.1. Information om pågående verksamhet kan erhållas av MALMÖ ACC. See para 3.1.1. Information about activity obtainable from MALMÖ ACC.
ESD171 HÄRNÖN EAST	623836N 0183946E - 622656N 0183946E - 622656N 0182046E - 623836N 0183946E	40500 ft AMSL ——— GND	Se punkt 3.1.1. Information om pågående verksamhet kan erhållas av STOCKHOLM ACC. See para 3.1.1. Information about activity obtainable from STOCKHOLM ACC.
ESD175A 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.
ESD175B 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.
ESD175C 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.
ESD177 KÅGE	A circle with radius 2000 m centred on 645525N 0203544E	4000 ft AMSL ——— GND	Sprängning/Dagbrott. Information om aktivitet ges av Mandalay Resources Björkdalsgruvan AB, TEL +46 (0)910 725 750. Blasting/surface quarry. Information about activity obtainable from Mandalay Resources Björkdalsgruvan AB, TEL +46 (0)910 725 750.

Danger areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESD178 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.
ESD179 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.
ESD180 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.
ESD181 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.
ESD182 SATTAVAARA	A circle with radius 2000 m centred on 675247N 0210353E	UNL ——— GND	Verksamhet med laser. Information om aktivitet ges av KIRUNA ATS eller STOCKHOLM ACC. Laser activity. Information about activity obtainable from KIRUNA ATS or STOCKHOLM ACC.

Danger areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESD184 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.
ESD184Z 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.
ESD185 BOTHNIA SOUTH	635829N 0215742E - 633700N 0213000E - 633619N 0212603E - 634224N 0210302E - 635829N 0211550E - 635829N 0215742E	FL 660 SFC	AMC Manageable Area Området får användas för gränsöverskridande operationer tillsammans med angränsande område i Helsinki FIR enligt avtal med Sverige och Finland mellan FL95 och FL660. Planerade aktiviteter kommer att meddelas av eAUP. Information om aktivitet fås från STOCKHOLM ACC. AMC Manageable Area The area may be used for cross border operations together with adjacent area in Helsinki FIR in accordance with agreements with Sweden and Finland between FL95 and FL660. Planned activities will be notified by eAUP. Information about activity obtainable from STOCKHOLM ACC.
ESD185Z BOTHNIA SOUTH	640129N 0211059E - 640129N 0220231E - 633700N 0213000E - 633458N 0211759E - 634105N 0205449E - 640129N 0211059E	FL 660 SFC	Endast för färdplanering IFR. For IFR flight planning purposes only.

Danger areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ESD188 HANÖ WEST	555354N 0150930E - 555353N 0150949E - 553959N 0150949E - 553959N 0143949E - 554609N 0143949E - 554617N 0144032E - 554648N 0144302E - 554719N 0144531E - 554748N 0144756E - 554756N 0145019E - 554804N 0145248E - 554807N 0145332E - 554810N 0145416E - 554815N 0145500E - 554821N 0145543E - 554827N 0145626E - 554835N 0145709E - 554843N 0145751E - 554848N 0145816E - 554855N 0145850E - 554905N 0145931E - 554916N 0150011E - 554927N 0150051E - 554939N 0150130E - 554951N 0150206E - 555000N 0150232E - 555014N 0150310E - 555028N 0150346E - 555043N 0150422E - 555059N 0150457E - 555115N 0150531E - 555132N 0150603E - 555150N 0150635E - 555203N 0150658E - 555214N 0150715E - 555233N 0150744E - 555252N 0150813E - 555312N 0150840E - 555333N 0150905E - 555354N 0150930E	40500 ft AMSL ——— GND	Se punkt 3.1.1. Information om pågående verksamhet kan erhållas av MALMÖ ACC. See para 3.1.1. Information about activity obtainable from MALMÖ ACC.
ESD189 HANÖ EAST	555353N 0150949E - 555348N 0151111E - 555337N 0151412E - 555323N 0151824E - 555148N 0152103E - 555011N 0152345E - 554835N 0152626E - 554827N 0152640E - 554809N 0152712E - 554752N 0152745E - 554735N 0152818E - 554720N 0152853E - 554705N 0152929E - 554650N 0153005E - 554637N 0153042E - 554624N 0153121E - 554612N 0153200E - 554600N 0153239E - 554550N 0153320E - 554540N 0153401E - 554531N 0153442E - 554523N 0153524E - 554516N 0153607E - 554509N 0153650E - 554504N 0153733E - 554459N 0153817E - 554455N 0153901E - 554452N 0153945E - 554452N 0153949E - 553959N 0153949E - 553959N 0150949E - 555353N 0150949E	40500 ft AMSL ——— GND	Se punkt 3.1.1. Information om pågående verksamhet kan erhållas av MALMÖ ACC. See para 3.1.1. Information about activity obtainable from MALMÖ ACC.
ESD190 KATTEGATT	574000N 0111251E - 573030N 0112631E - 573030N 0112046E - 574000N 0111251E	9000 ft AMSL ——— GND	Se punkt 3.1.1. Information om pågående verksamhet kan erhållas av MALMÖ ACC eller LANDVETTER ATS. See para 3.1.1. Information about activity obtainable from MALMÖ ACC or LANDVETTER ATS.
ESD191 TVETA	590956N 0173653E - 590949N 0173806E - 590941N 0173802E - 590929N 0173808E - 590923N 0173751E - 590918N 0173656E - 590926N 0173625E - 590942N 0173647E - 590956N 0173653E	1100 ft AMSL ——— GND	Sprängning/Dagbrott MÅN-ONS 0500-1730 (0400-1630). TOR 0500-1300 (0400-1200) Information om aktivitet ges av PEAB Anläggning AB, TEL +46 (0)73 337 62 00. Blasting/Surface quarry MON-WED 0500-1730 (0400-1630). THU 0500-1300 (0400-1200) Information about activity obtainable from PEAB Anläggning AB, TEL +46 (0)73 337 62 00.

5.2 Områden för militär övningsverksamhet

1 Tillfälligt reserverat luftrum (TRA)

1.1 Allmänt

Inom nedanstående områden pågår tidvis militär övnings-flygning. Planerad aktivitet i TRA samt stängning av CDR kategori 1 för färdplanering kungörs via eAUP.
När TRA är aktiverat kan det orsaka restriktioner för trafik.

Annan trafik kommer, då ett område är aktiverat, inte att ges klarering in i området med undantag för

- flygning i nödläge
- luftfartyg med hög medicinsk prioritet (HOSP/MEDEVAC)
- luftfartyg som utför räddningsuppdrag
- flygning på incidentuppdrag
- flygning enligt Open Skies fördraget
- flygning som avser starta eller landa under aktivt TRA eller i områdets närhet
- flygning vars färdplan berör TRA men som accepterats av IFPS, kan komma att få en alternativ klarering med en för svenskt FIR total flygvägsförlängning som normalt inte överstiger 10 NM, men kan i undantagsfall bli maximalt 20 NM.

En klarering att beröra ett aktiverat TRA innebär en försäkran att flygningen kommer att separeras till militära övnings-flygningar med föreskrivna separationsminima.

1.2 Speciellt för IFR flygning

Flygning till/från en flygplats med luftrum under eller i omedelbar närhet av ett aktiverat TRA kan vid behov taktiskt klareras inpassage i berört TRA på FL110 eller därunder.

1.3 Speciellt för VFR flygning

VFR flygning över FL 95 uppmanas att färdplanera utanför TRA under tider då områdena planeras vara aktiverade.

1.4 Cross Border Area (CBA)

CBA är ett område upprättat över en internationell gräns. Områdena regleras som TRA (Temporary Reserved Airspace) och kan temporärt vara reserverade för specifik, exklusiv eller gemensam, användning av finska eller svenska flygvapnet för en bestämd tidsperiod.
Planerad aktivitet i CBA kungörs i eAUP.

1.5 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.

5.2 Military exercise and training areas

1 Temporary Reserved Airspace (TRA)

1.1 General

Within the areas described below exercises with military aircraft may take place periodically. Planned activities in TRA and closure of CDR category 1 will be notified by eAUP.
Activation of TRA may cause restrictions on traffic.

Other traffic will, when an area is activated, not be given clearance to enter the area with the exception:

- flights in distress
- aircraft with high medical priority (HOSP/MEDEVAC)
- aircraft engaged in search and rescue
- flights on military alert interception mission
- flights operating in accordance with Open Skies treaty
- flights that intend to land or depart from an airport below or in the vicinity or the TRA
- flights with a flight plan that affects TRA that has been accepted by IFPS can be given alternative routing with a total route extension in Swedish FIR that normally will not exceed 10 NM but in rare cases a maximum of 20 NM.

An ATC clearance to enter an active TRA will ensure that the flight will be separated from training flights with the prescribed separation minima.

1.2 Special for IFR flight

Flight to/from an aerodrome with airspace below or in the vicinity of an activated TRA may tactically be cleared to enter TRA at FL110 or below.

1.3 Special for VFR flight

VFR flight above FL 95 is, recommended to flight plan outside TRA during times when the areas are planned to be activated.

1.4 Cross Border Area (CBA)

CBA is an area established across international border. The areas are managed as TRA (Temporary Reserved Airspace) and can be temporarily reserved and allocated for the specific exclusive or common use by Finnish or Swedish air force for a determined period of time.
Planned activities in CBA will be notified by eAUP.

1.5 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.

1.6 Förteckning över Tillfälligt reserverat luftrum / List of Temporary Reserved Airspace

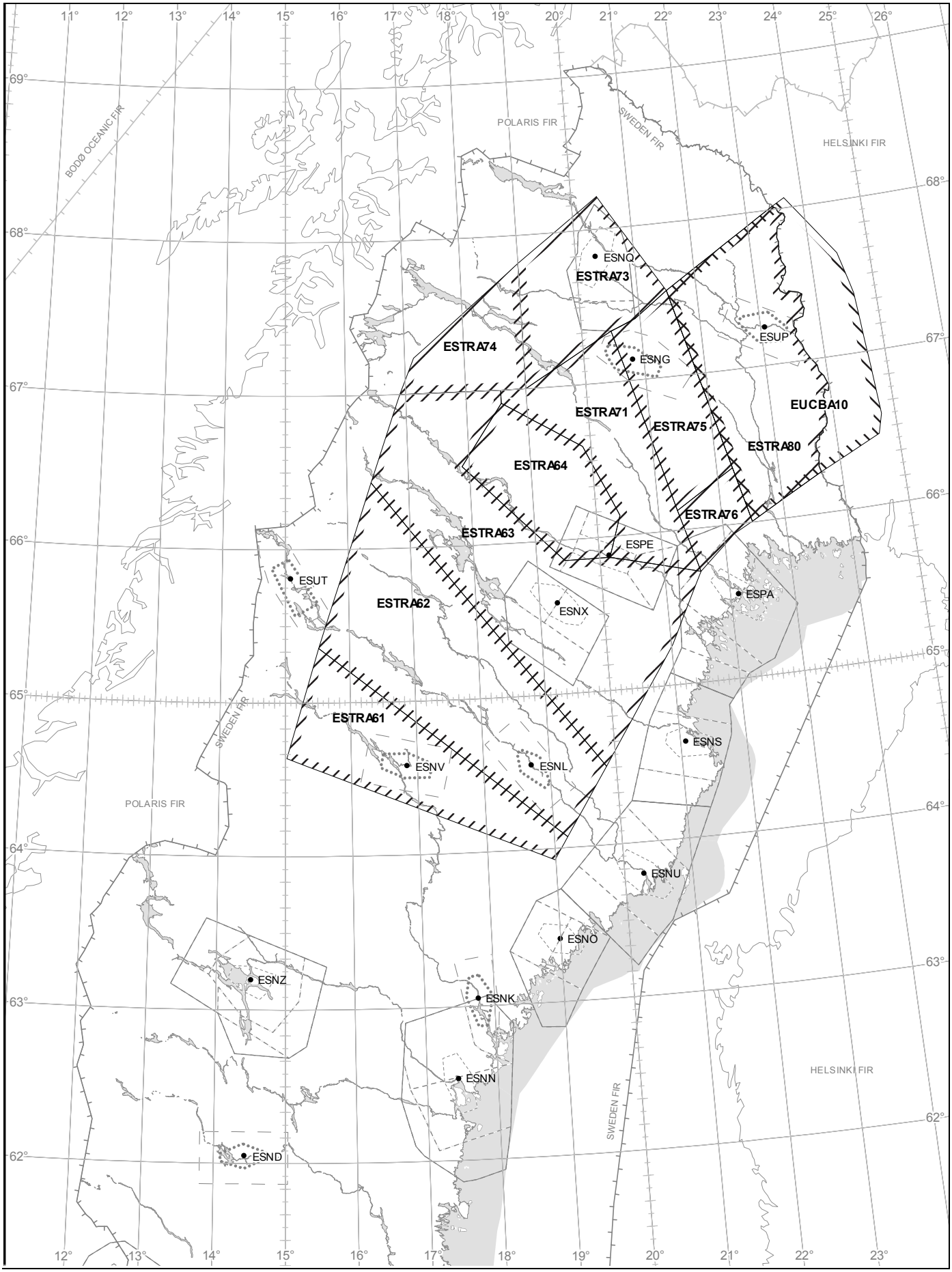
Temporary Reserved Airspace			
Identification Name	Lateral limits	Vertical limits	Remark
ESTRA61	652121N 0153108E - 640416N 0191157E - 635533N 0185919E - 643820N 0150121E - 652121N 0153108E	FL 660 ——— FL 095	Planerad aktivitet kommer att notifieras i eAUP. Planned activities will be notified by eAUP.
ESTRA61Z	652622N 0152713E - 640450N 0192053E - 635145N 0190154E - 643630N 0145252E - 652622N 0152713E	FL 660 ——— FL 095	For IFR flight planning purposes only.
ESTRA62	662550N 0162332E - 660705N 0165927E - 643036N 0195107E - 640416N 0191157E - 652121N 0153108E - 662550N 0162332E	FL 660 ——— FL 095	Planerad aktivitet kommer att notifieras i eAUP. Planned activities will be notified by eAUP.
ESTRA62Z	663203N 0162054E - 660855N 0170518E - 643040N 0195931E - 635945N 0191327E - 652016N 0152246E - 663203N 0162054E	FL 660 ——— FL 095	For IFR flight planning purposes only.
ESTRA63	670000N 0165400E - 670000N 0183445E - 665454N 0183445E - 663055N 0175246E - 655523N 0191839E - 655155N 0192645E - 655155N 0200944E - 654310N 0213434E - 651551N 0210119E - 643036N 0195107E - 660705N 0165927E - 662550N 0162332E - 670000N 0165400E	FL 660 ——— FL 095	Planerad aktivitet kommer att notifieras i eAUP. Planned activities will be notified by eAUP.
ESTRA63Z	670300N 0184223E - 665357N 0184222E - 663116N 0180228E - 655727N 0192357E - 655455N 0192952E - 655454N 0201037E - 654536N 0214032E - 654248N 0214217E - 653939N 0213822E - 651420N 0210729E - 642516N 0195123E - 660515N 0165337E - 662517N 0161509E - 665656N 0164307E - 670258N 0164854E - 670300N 0184223E	FL 660 ——— FL 095	For IFR flight planning purposes only.
ESTRA64	665454N 0183445E - 663555N 0195144E - 660755N 0202244E - 660446N 0202009E - 655155N 0200944E - 655155N 0192645E - 655523N 0191839E - 663055N 0175246E - 665454N 0183445E	FL 660 ——— FL 095	Planerad aktivitet kommer att notifieras i eAUP. Planned activities will be notified by eAUP.
ESTRA64Z	665703N 0182916E - 665701N 0184032E - 663757N 0195741E - 660804N 0203038E - 660349N 0202708E - 654855N 0201500E - 654946N 0200020E - 654855N 0192339E - 655319N 0191322E - 663033N 0174304E - 665703N 0182916E	FL 660 ——— FL 095	For IFR flight planning purposes only.
ESTRA71	671955N 0202944E - 660744N 0211806E - 654310N 0213434E - 655155N 0200944E - 660446N 0202009E - 660755N 0202244E - 663555N 0195144E - 665454N 0183445E - 670000N 0183445E - 670000N 0190000E - 671955N 0202944E	FL 660 ——— FL 095	Planerad aktivitet kommer att notifieras i eAUP. Planned activities will be notified by eAUP.
ESTRA71Z	672358N 0203453E - 654536N 0214032E - 654248N 0214217E - 653942N 0213824E - 654855N 0201500E - 654946N 0200020E - 655455N 0200427E - 660542N 0201309E - 660746N 0201450E - 663353N 0194548E - 665313N 0182709E - 670259N 0182705E - 670300N 0185756E - 672240N 0202639E - 672358N 0203453E	FL 660 ——— FL 095	For IFR flight planning purposes only.

ESTRA73	681242N 0202645E - 673338N 0212926E - 672355N 0205504E - 672127N 0203929E - 671955N 0202944E - 670000N 0190000E - 674859N 0190000E - 681242N 0202645E	FL 660 ——— FL 095	Planerad aktivitet kommer att notifieras i eAUP. Planned activities will be notified by eAUP.
ESTRA73Z	681659N 0202906E - 673514N 0213602E - 673227N 0213828E - 672118N 0205855E - 671841N 0204225E - 671713N 0203305E - 665701N 0190206E - 665701N 0185222E - 675012N 0185205E - 675457N 0190757E - 681659N 0202906E	FL 660 ——— FL 095	For IFR flight planning purposes only.
ESTRA74	674859N 0190000E - 670000N 0190000E - 670000N 0183445E - 670000N 0165400E - 671400N 0170911E - 674859N 0190000E	FL 660 ——— FL 125	Planerad aktivitet kommer att notifieras i eAUP. Planned activities will be notified by eAUP.
ESTRA74Z	675457N 0190757E - 665817N 0190738E - 665701N 0190206E - 665701N 0185222E - 665656N 0164307E - 670258N 0164854E - 671549N 0170247E - 675012N 0185205E - 675457N 0190757E	FL 660 ——— FL 125	For IFR flight planning purposes only.
ESTRA75	673338N 0212926E - 662154N 0221522E - 660744N 0211806E - 671955N 0202944E - 672127N 0203929E - 672355N 0205504E - 673338N 0212926E	FL 660 ——— FL 095	Planerad aktivitet kommer att notifieras i eAUP. Planned activities will be notified by eAUP.
ESTRA75Z	673633N 0213104E - 673603N 0213402E - 673508N 0213613E - 673357N 0213713E - 662213N 0222247E - 662058N 0222227E - 661954N 0222054E - 661852N 0221721E - 660519N 0212226E - 660449N 0211938E - 660449N 0211634E - 660519N 0211346E - 660614N 0211143E - 660648N 0211105E - 671859N 0202222E - 672014N 0202202E - 672125N 0202301E - 672220N 0202510E - 672239N 0202635E - 672358N 0203453E - 672633N 0205113E - 673603N 0212450E - 673633N 0212748E - 673633N 0213104E	FL 660 ——— FL 095	For IFR flight planning purposes only.
ESTRA76	662154N 0221522E - 661854N 0221717E - 660022N 0222825E - 655619N 0221004E - 654310N 0213434E - 660744N 0211806E - 662154N 0221522E	FL 660 ——— FL 095	Planerad aktivitet kommer att notifieras i eAUP. Planned activities will be notified by eAUP.
ESTRA76Z	662331N 0222159E - 660118N 0223522E - 655554N 0221047E - 654041N 0212948E - 654050N 0212833E - 660611N 0211150E - 662331N 0222159E	FL 660 ——— FL 095	For IFR flight planning purposes only.
ESTRA80	680125N 0232850E Swedish/Finnish border southward to - 661606N 0234044E - 660022N 0222825E - 661854N 0221717E - 662154N 0221522E - 673338N 0212926E - 680125N 0232850E	FL 660 ——— FL 095	Får endast användas under perioden 1 FEB-14 NOV. Plannerad aktivitet kommer att notifieras i eAUP. Only for use during the period 1 FEB-14 NOV. Planned activities will be notified by eAUP.
ESTRA80Z	680652N 0231947E Swedish/Finnish border southward to - 661109N 0234654E - 655518N 0222224E - 673507N 0211929E - 673918N 0213428E - 680652N 0231947E	FL 660 ——— FL 095	For IFR flight planning purposes only.

1.7 Förteckning över Cross Border Area / List of Cross Border Area

Cross Border Area			
Identification Name	Lateral limits	Vertical limits	Remark
EUCBA10	680359N 0234122E - 673943N 0242712E - 672320N 0243801E - 663511N 0244642E - 662732N 0244120E - 661606N 0234044E - 660022N 0222825E - 673338N 0212926E - 680125N 0232850E - 680359N 0234122E	FL 660 ——— FL 095	Consists of ESTRA80 EFTRA see AIP Finland Only for use during the period 1 FEB-14 NOV.
EUCBA10Z	681137N 0234602E - 674733N 0243137E - 671459N 0245315E - 662601N 0245337E - 661958N 0243530E - 661058N 0234804E - 655518N 0222224E - 673507N 0211929E - 673918N 0213428E - 680637N 0232039E - 681137N 0234602E	FL 660 ——— FL 095	For IFR flight planning purposes only.

1.8 Temporary Reserved Airspace and Cross Border Area



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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	14906	KRIEGERS FLAK	550226.0N 0130239.0E	617	617	F R/FLG W	Wind turbine
	14907	KRIEGERS FLAK	550203.0N 0130535.0E	617	617	F R/FLG W	Wind turbine
	14909	KRIEGERS FLAK	550159.0N 0130014.0E	617	617	F R/FLG W	Wind turbine
	14911	KRIEGERS FLAK	550135.0N 0130617.0E	617	617	F R/FLG W	Wind turbine
	14912	KRIEGERS FLAK	550137.0N 0130315.0E	617	617	F R/FLG W	Wind turbine
	14913	KRIEGERS FLAK	550111.0N 0130655.0E	617	617	F R/FLG W	Wind turbine
	14916	KRIEGERS FLAK	550058.0N 0130122.0E	617	617	F R/FLG W	Wind turbine
	14917	KRIEGERS FLAK	550048.0N 0130337.0E	617	617	F R/FLG W	Wind turbine
	14918	KRIEGERS FLAK	550037.0N 0130616.0E	617	617	F R/FLG W	Wind turbine
	14920	KRIEGERS FLAK	550015.0N 0130256.0E	617	617	F R/FLG W	Wind turbine
	15944	PILEDAL	552743.7N 0135753.9E	331	379	unknown	Wind turbine
	16101	SEGE Å	553752.9N 0130242.2E	328	337	unknown	Chimney
	17493	RYDSGÅRD	552942.7N 0133840.6E	328	584	F R	Wind turbine
55N 14E	20	KIVIK	554005.0N 0140929.3E	354	923	F R	Mast
	21	GLIMMINGE	553004.5N 0141539.1E	361	587	F R	Mast
	885	LISTERLANDET/BJÖRKENABBEN	555929.4N 0144000.2E	453	458	F R	Mast
	4432	LISTERLANDET/BJÖRKENABBEN	555926.0N 0144001.8E	453	460	F R	Mast
	8606	LYNGBY	555254.2N 0140930.1E	459	482	FLG R	Wind turbine
	8607	LYNGBY	555249.6N 0140954.7E	459	471	FLG R	Wind turbine
	9061	BORRBY	552813.1N 0141013.3E	328	476	F R	Wind turbine
	9626	BORRBY	552821.7N 0141012.0E	331	479	FLG R	Wind turbine
	9803	EVERÖD	555304.2N 0140950.5E	459	476	FLG R	Wind turbine
	9978	GÄRSNÄS	553133.0N 0141127.2E	410	541	FLG R	Wind turbine
	9979	GÄRSNÄS	553144.1N 0141123.1E	410	541	FLG R	Wind turbine
	9980	GÄRSNÄS	553155.1N 0141119.2E	410	558	FLG R	Wind turbine
	9981	GÄRSNÄS	553107.3N 0141053.1E	410	541	FLG R	Wind turbine
	9982	GÄRSNÄS	553117.9N 0141050.8E	410	548	FLG R	Wind turbine
	9983	GÄRSNÄS	553145.5N 0141202.9E	410	541	FLG R	Wind turbine
	9984	GÄRSNÄS	553159.1N 0140841.8E	410	591	FLG R	Wind turbine
	9985	GÄRSNÄS	553147.9N 0140853.1E	410	594	FLG R	Wind turbine
	9986	GÄRSNÄS	553155.6N 0140908.1E	410	587	FLG R	Wind turbine
	10701	BORRBY	552814.3N 0141123.7E	328	485	FLG R	Wind turbine
	13646	HAMMENHÖG	552954.7N 0140525.9E	390	571	FLG R	Wind turbine
	13647	HAMMENHÖG	552945.3N 0140541.0E	390	558	FLG R	Wind turbine
	15945	KALSBÄCK	552859.1N 0140902.4E	328	469	unknown	Wind turbine
	16124	EGEHEM	555259.5N 0141015.1E	459	469	FLG R	Wind turbine
56N 12E	25	HALMSTAD/OSKARSTRÖM	564723.9N 0125616.9E	1066	1550	F R/FLG W	Mast
	26	HÄLSINGBORG	560046.6N 0124244.7E	400	422	F R	Chimney
	750	HELSINGBORG 2	560203.5N 0124137.7E	394	401	F R	Chimney
	5977	KÄRRET	565952.2N 0122902.6E	328	390	F R	Wind turbine
	7623	LÖNHULT	561110.3N 0124213.3E	328	351	F R	Wind turbine
	8347	FALKENBERG	565316.5N 0122755.7E	328	341	F R	Wind turbine
	8732	LÅNGÅS	565946.6N 0122824.6E	410	469	F R	Wind turbine
	8785	LÅNGÅS	565942.8N 0122759.1E	410	469	F R	Wind turbine
	8786	LÅNGÅS	565934.2N 0122809.8E	410	469	F R	Wind turbine
	8787	LÅNGÅS	565937.4N 0122832.9E	410	476	F R	Wind turbine
	9394	LINDHULT	565655.4N 0122758.5E	459	509	FLG R	Wind turbine
	9395	LINDHULT	565646.6N 0122815.0E	459	509	FLG R	Wind turbine
	9396	LINDHULT	565637.9N 0122831.5E	459	505	FLG R	Wind turbine
	9397	LINDHULT	565629.1N 0122847.9E	459	503	FLG R	Wind turbine
	10019	TORUP	565513.5N 0125905.5E	492	1049	FLG R	Wind turbine
	10020	TORUP	565525.9N 0125911.2E	492	1100	FLG R	Wind turbine
	10021	TORUP	565539.1N 0125904.7E	492	1079	FLG R	Wind turbine
	10022	TORUP	565553.7N 0125856.8E	492	1102	FLG R	Wind turbine
	10600	VESSIGEBRO	565746.6N 0124438.7E	492	974	FLG R	Wind turbine
	10601	VESSIGEBRO	565753.2N 0124505.7E	492	961	FLG R	Wind turbine
	10602	VESSIGEBRO	565756.3N 0124539.9E	492	925	FLG R	Wind turbine
	10603	VESSIGEBRO	565809.7N 0124605.6E	492	873	FLG R	Wind turbine
	10604	VESSIGEBRO	565808.9N 0124527.6E	492	860	FLG R	Wind turbine
	10605	VESSIGEBRO	565805.9N 0124457.6E	492	883	FLG R	Wind turbine
	11245	VESSIGEBRO	565957.6N 0124216.4E	492	863	FLG R	Wind turbine
	11250	VESSIGEBRO	565940.0N 0124359.4E	492	965	FLG R	Wind turbine

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

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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	1898	TRARYD	563416.2N 0134451.0E	341	819	F R	Mast
	3730	DRAGABOL	564640.8N 0130113.2E	328	786	F R	Wind turbine
	7815	VINSLÖV	560644.7N 0135615.7E	328	401	F R	Wind turbine
	8304	BÖKHULT	563848.9N 0130741.5E	440	864	F R	Mast
	8994	TORMESTORP	560421.2N 0134713.3E	328	792	F R	Mast
	9289	HISHULT	562726.7N 0131456.3E	492	771	FLG R	Wind turbine
	9290	HISHULT	562735.8N 0131508.7E	492	764	FLG R	Wind turbine
	9291	HISHULT	562719.4N 0131521.6E	492	802	FLG R	Wind turbine
	9292	HISHULT	562708.4N 0131508.4E	492	816	FLG R	Wind turbine
	9293	HISHULT	562711.2N 0131536.6E	492	804	FLG R	Wind turbine
	9294	HISHULT	562647.9N 0131512.3E	492	774	FLG R	Wind turbine
	9295	HISHULT	562649.7N 0131543.1E	492	846	FLG R	Wind turbine
	9296	HISHULT	562641.3N 0131556.4E	492	838	FLG R	Wind turbine
	9297	HISHULT	562632.7N 0131614.5E	492	824	FLG R	Wind turbine
	9298	HISHULT	562640.7N 0131639.4E	492	827	FLG R	Wind turbine
	9299	HISHULT	562629.9N 0131643.7E	492	823	FLG R	Wind turbine
	9300	HISHULT	562641.8N 0131701.6E	492	803	FLG R	Wind turbine
	9550	SKÅNES FAGERHULT	562037.1N 0133014.6E	328	763	F R	Mast
	10017	TORUP	565507.8N 0130034.8E	492	987	FLG R	Wind turbine
	10018	TORUP	565541.6N 0130041.4E	492	1018	FLG R	Wind turbine
	10023	DALSHULT	565313.3N 0130122.4E	492	1078	FLG R	Wind turbine
	10024	DALSHULT	565325.4N 0130102.7E	492	1033	FLG R	Wind turbine
	10025	DALSHULT	565353.5N 0130048.7E	492	1040	FLG R	Wind turbine
	10181	HISHULT	562716.2N 0131822.7E	492	919	FLG R	Wind turbine
	10182	HISHULT	562728.3N 0131847.4E	492	951	FLG R	Wind turbine
	10183	HISHULT	562734.5N 0131818.5E	492	863	FLG R	Wind turbine
	10184	HISHULT	562740.0N 0131754.4E	492	886	FLG R	Wind turbine
	10185	HISHULT	562754.2N 0131754.8E	492	902	FLG R	Wind turbine
	10186	HISHULT	562802.4N 0131731.7E	492	886	FLG R	Wind turbine
	10187	HISHULT	562818.6N 0131746.2E	492	889	FLG R	Wind turbine
	10251	ELDSBERGA	563527.6N 0130150.8E	492	554	FLG R	Wind turbine
	10253	ELDSBERGA	563522.6N 0130207.2E	492	564	FLG R	Wind turbine
	10254	ELDSBERGA	563531.0N 0130228.4E	492	581	FLG R	Wind turbine
	10632	KNÄRED	563232.0N 0132108.4E	492	905	FLG R	Wind turbine
	10633	KNÄRED	563216.3N 0132121.5E	492	942	FLG R	Wind turbine
	10634	KNÄRED	563225.1N 0132213.9E	492	928	FLG R	Wind turbine
	10635	KNÄRED	563231.5N 0132241.3E	492	912	FLG R	Wind turbine
	10636	KNÄRED	563201.8N 0132250.3E	492	935	FLG R	Wind turbine
	10637	KNÄRED	563201.4N 0132132.7E	492	928	FLG R	Wind turbine
	10638	KNÄRED	563140.9N 0132307.7E	492	898	FLG R	Wind turbine
	10639	KNÄRED	563151.4N 0132227.4E	492	906	FLG R	Wind turbine
	10640	KNÄRED	563148.4N 0132137.8E	492	948	FLG R	Wind turbine
	10641	KNÄRED	563206.3N 0132219.3E	492	961	FLG R	Wind turbine
	11089	MOSHULT	565121.1N 0130527.1E	492	1050	FLG R	Wind turbine
	11090	MOSHULT	565140.3N 0130541.2E	492	1086	FLG R	Wind turbine
	11091	MOSHULT	565147.7N 0130516.8E	492	1096	FLG R	Wind turbine
	11092	MOSHULT	565247.7N 0130543.8E	492	1093	FLG R	Wind turbine
	11093	MOSHULT	565237.1N 0130523.7E	492	1102	FLG R	Wind turbine
	11094	MOSHULT	565221.3N 0130518.2E	492	1053	FLG R	Wind turbine
	11121	SKOGABY	563212.7N 0131250.3E	492	796	FLG R	Wind turbine
	11122	SKOGABY	563218.1N 0131404.8E	492	828	FLG R	Wind turbine
	11123	SKOGABY	563224.1N 0131339.9E	492	915	FLG R	Wind turbine
	11124	SKOGABY	563208.0N 0131439.4E	492	884	FLG R	Wind turbine
	11125	SKOGABY	563220.2N 0131512.5E	492	827	FLG R	Wind turbine
	11279	PUTSERED	562908.7N 0132344.5E	492	917	FLG R	Wind turbine
	11280	KNÄRED	563209.4N 0131541.1E	492	819	FLG R	Wind turbine
	11281	KNÄRED	563229.3N 0131547.0E	492	873	FLG R	Wind turbine
	11282	KNÄRED	563233.7N 0131620.2E	492	937	FLG W	Wind turbine
	11283	KNÄRED	563301.6N 0131532.2E	492	915	FLG R	Wind turbine
	11438	FYLLINGE	563916.9N 0130009.0E	476	725	FLG R	Wind turbine
	11466	SKOGABY	563231.0N 0131303.6E	476	906	FLG R	Wind turbine
	11467	SKOGABY	563219.0N 0131158.5E	476	800	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
	11468	SKOGABY	563237.6N 0131216.2E	476	874	FLG R	Wind turbine
	11469	SKOGABY	563225.4N 0131232.8E	476	876	FLG R	Wind turbine
	11624	KNÄRED	562952.7N 0131840.3E	472	925	FLG W	Wind turbine
	11625	KNÄRED	562939.5N 0131840.0E	472	938	FLG W	Wind turbine
	11626	KNÄRED	562927.7N 0131829.0E	492	942	FLG W	Wind turbine
	11628	KNÄRED	562943.2N 0131759.6E	472	853	FLG W	Wind turbine
	11629	KNÄRED	562956.4N 0131756.1E	472	876	FLG W	Wind turbine
	11637	PERSTORP	560551.3N 0132508.7E	505	868	F R	Mast
	11955	KNÄRED/PUTSERED	562811.9N 0132351.7E	492	919	FLG W	Wind turbine
	11956	KNÄRED/PUTSERED	562829.4N 0132358.8E	492	879	FLG W	Wind turbine
	11957	KNÄRED/PUTSERED	562834.6N 0132430.4E	492	910	FLG W	Wind turbine
	11958	KNÄRED/PUTSERED	562850.8N 0132429.9E	492	875	FLG W	Wind turbine
	11959	KNÄRED/PUTSERED	562821.1N 0132432.9E	492	997	FLG W	Wind turbine
	11960	KNÄRED/PUTSERED	562851.7N 0132500.7E	492	876	FLG W	Wind turbine
	11961	KNÄRED/PUTSERED	562842.7N 0132525.1E	492	865	FLG W	Wind turbine
	11962	KNÄRED/PUTSERED	562837.8N 0132629.9E	492	857	FLG W	Wind turbine
	11963	KNÄRED/PUTSERED	562822.8N 0132648.4E	492	924	FLG W	Wind turbine
	11964	KNÄRED/PUTSERED	562847.2N 0132654.0E	492	868	FLG W	Wind turbine
	11965	KNÄRED/PUTSERED	562902.8N 0132654.7E	492	853	FLG W	Wind turbine
	12251	ELDSBERGA	563538.4N 0130122.7E	492	568	FLG R	Wind turbine
	12703	MUNKA-LJUNGBY	561453.4N 0130509.9E	492	885	FLG R	Wind turbine
	12705	MUNKA-LJUNGBY	561436.6N 0130606.5E	492	918	FLG R	Wind turbine
	12849	MUNKA-LJUNGBY	561447.0N 0130553.1E	492	909	FLG R	Wind turbine
	12850	MUNKA-LJUNGBY	561450.3N 0130615.8E	492	902	FLG R	Wind turbine
	12852	MUNKA-LJUNGBY	561442.0N 0130630.1E	492	884	FLG R	Wind turbine
	12861	TORUP	565518.3N 0130150.4E	492	997	FLG R	Wind turbine
	12862	TORUP	565501.9N 0130141.4E	492	1014	FLG R	Wind turbine
	12863	TORUP	565436.4N 0130058.7E	492	1014	FLG R	Wind turbine
	12864	TORUP	565449.9N 0130107.5E	492	1053	FLG R	Wind turbine
	12865	TORUP	565516.8N 0130113.2E	492	984	FLG R	Wind turbine
	12866	TORUP	565429.5N 0130130.3E	492	1020	FLG R	Wind turbine
	13282	MUNKA-LJUNGBY	561450.4N 0130528.1E	492	881	FLG R	Wind turbine
	15798	OSKARSTRÖM	565152.1N 0130558.4E	591	1132	FLG W	Wind turbine
	15799	OSKARSTRÖM	565159.0N 0130653.3E	591	1071	FLG W	Wind turbine
	16405	PÅSKAKULL	562936.8N 0131736.8E	472	853	FLG R	Wind turbine
56N 14E	46	KAFFATORP/2	561422.6N 0142042.4E	341	915	F R	Mast
	47	KARLSHAMN/1	561337.0N 0144631.2E	1099	1330	FLG W	Mast
	48	KARLSHAMN STJÄRNÖ	560911.7N 0144957.0E	463	471	F R	Chimney
	50	VISLANDA	564832.4N 0142316.7E	715	1353	F R/FLG W	Mast
	992	HOLLSTORP	565158.7N 0145257.5E	735	1406	F R/FLG W	Mast
	2362	HJORTSBERGA	565413.4N 0142256.0E	354	1016	F R	Mast
	4519	KARLSHAMN STJÄRNÖ	560909.5N 0144956.0E	463	476	F R	Chimney
	4520	KARLSHAMN STJÄRNÖ	560907.4N 0144955.1E	463	472	F R	Chimney
	9366	SÖLVESBORG	560412.6N 0144014.4E	328	351	FLG R	Wind turbine
	9367	SÖLVESBORG	560407.6N 0144025.3E	328	350	FLG R	Wind turbine
	9368	SÖLVESBORG	560402.5N 0144036.0E	328	351	FLG R	Wind turbine
	9369	SÖLVESBORG	560357.3N 0144046.8E	328	348	FLG R	Wind turbine
	9502	KRISTIANSTAD	560245.1N 0140353.1E	456	472	FLG R	Wind turbine
	9503	KRISTIANSTAD	560233.0N 0140339.0E	456	479	FLG R	Wind turbine
	9504	KRISTIANSTAD	560221.4N 0140325.3E	456	489	FLG R	Wind turbine
	9609	KRISTIANSTAD	560410.6N 0141046.3E	410	463	FLG R	Wind turbine
	9610	KRISTIANSTAD	560418.6N 0141030.9E	410	469	FLG R	Wind turbine
	9611	KRISTIANSTAD	560426.6N 0141015.4E	410	446	FLG R	Wind turbine
	9612	KRISTIANSTAD	560434.7N 0141000.0E	410	443	FLG R	Wind turbine
	9613	KRISTIANSTAD	560442.8N 0140944.6E	410	446	FLG R	Wind turbine
	9664	HJORTSBERGA	565159.5N 0142038.5E	328	968	F R	Mast
	9988	LÖRBY	560432.4N 0144006.9E	456	463	FLG R	Wind turbine
	9989	LÖRBY	560432.5N 0144028.2E	456	479	FLG R	Wind turbine
	9990	LÖRBY	560432.6N 0144049.7E	456	469	FLG R	Wind turbine
	10476	HÖNEDAL	560436.0N 0141800.8E	374	463	FLG R	Wind turbine
	10477	HÖNEDAL	560426.5N 0141804.1E	374	463	FLG R	Wind turbine
	10478	HÖNEDAL	560417.0N 0141807.4E	374	459	FLG R	Wind turbine

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

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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	11989	TANUMSHEDE	584647.2N 0112344.5E	476	928	FLG R	Wind turbine
	11990	TANUMSHEDE	584659.7N 0112332.3E	476	928	FLG R	Wind turbine
	11991	TANUMSHEDE	584614.6N 0112318.6E	476	906	FLG R	Wind turbine
	11992	TANUMSHEDE	584631.3N 0112341.4E	476	942	FLG R	Wind turbine
	11993	TANUMSHEDE	584635.8N 0112408.8E	476	948	FLG R	Wind turbine
	11994	TANUMSHEDE	584606.3N 0112405.8E	476	935	FLG R	Wind turbine
	11995	TANUMSHEDE	584618.9N 0112419.1E	476	958	FLG R	Wind turbine
	11996	TANUMSHEDE	584631.3N 0112439.0E	476	1020	FLG R	Wind turbine
	12201	TANUMSHEDE	584444.0N 0112646.9E	492	908	FLG R	Wind turbine
	12384	STENUNGSUND	580741.7N 0115537.3E	410	849	FLG R	Wind turbine
	12822	HÄLLEVADSHOLM	583346.4N 0113001.1E	492	837	FLG R	Wind turbine
	12991	TANUMSHEDE	584556.1N 0112424.8E	364	768	FLG R	Wind turbine
	12992	TANUMSHEDE	584607.2N 0112441.7E	364	792	FLG R	Wind turbine
	12993	TANUMSHEDE	584618.1N 0112500.0E	364	848	FLG R	Wind turbine
	12994	TANUMSHEDE	584628.5N 0112508.2E	364	859	FLG R	Wind turbine
	13881	SKEE	585429.9N 0111833.2E	492	850	FLG R	Wind turbine
	13882	SKEE	585416.7N 0111849.0E	492	820	FLG R	Wind turbine
	15322	LUR	585048.2N 0112003.9E	656	1004	FLG W	Wind turbine
	15323	LUR	585025.7N 0111941.5E	656	978	FLG W	Wind turbine
	15324	LUR	585034.0N 0112016.5E	656	997	FLG W	Wind turbine
	15325	SKEE	585349.1N 0111557.2E	656	961	FLG W	Wind turbine
	15326	SKEE	585320.9N 0111521.3E	656	909	FLG W	Wind turbine
	15327	SKEE	585341.3N 0111524.5E	656	915	F R	Wind turbine
	15328	SKEE	585253.8N 0111555.8E	656	797	FLG W	Wind turbine
	15329	SKEE	585303.3N 0111534.2E	656	810	F R	Wind turbine
	15330	SKEE	585316.9N 0111548.9E	656	892	F R	Wind turbine
	15331	SKEE	585334.1N 0111549.8E	656	942	F R	Wind turbine
	15666	TORMOSERÖD	585138.6N 0112442.6E	656	1112	FLG W	Wind turbine
	15667	TORMOSERÖD	585136.8N 0112522.0E	656	1137	F R	Wind turbine
	15668	TORMOSERÖD	585140.1N 0112603.9E	656	1197	F R	Wind turbine
	15669	TORMOSERÖD	585154.7N 0112632.5E	656	1189	FLG W	Wind turbine
	15670	TORMOSERÖD	585151.6N 0112717.0E	656	1249	F R	Wind turbine
	15671	TORMOSERÖD	585146.2N 0112749.4E	656	1284	FLG W	Wind turbine
	15672	TORMOSERÖD	585130.9N 0112636.3E	656	1170	F R	Wind turbine
	15673	TORMOSERÖD	585119.8N 0112539.4E	656	1115	FLG W	Wind turbine
	15674	TORMOSERÖD	585105.5N 0112632.7E	656	1168	F R	Wind turbine
	15675	TORMOSERÖD	585128.0N 0112741.0E	656	1263	F R	Wind turbine
	15676	TORMOSERÖD	585107.1N 0112712.0E	656	1203	FLG W	Wind turbine
	16244	MOSOTEN	585348.9N 0114810.8E	390	1141	unknown	Mast
	16254	RUNNEMYR	585317.6N 0112347.1E	492	895	unknown	Wind turbine
	16255	LESTINGS MYR	585302.5N 0112436.8E	492	980	unknown	Wind turbine
	16881	ALMÖN	580334.7N 0114640.8E	387	423	unknown	Bridge
	16921	LUNNEBUKTEN	582045.5N 0112540.8E	331	454	unknown	Chimney
	16922	LUNNEBUKTEN	582042.9N 0112543.4E	348	468	unknown	Chimney
	17032	STENUNGSUND	580332.3N 0114702.6E	390	422	F R	Bridge
58N 12E	186	BÄCKEFORS	584920.1N 0121201.0E	1073	1820	F R/FLG W	Mast
	191	TROLLHÄTTAN/STRÖMSLUND	581721.7N 0121637.7E	397	688	F R	Mast
	4524	BÄCKEFORS	584920.3N 0121200.8E	449	1197	-	Mast
	5161	SKOG	583304.7N 0125919.9E	328	536	F R	Wind turbine
	5295	HÅBERG	582002.4N 0123443.9E	328	489	F R	Wind turbine
	5786	FLO HALLEBO	582038.0N 0123740.1E	328	511	F R	Wind turbine
	5971	VÅRGÅRDA	580025.4N 0123348.3E	354	916	F R	Mast
	6430	FRITTORP	582046.8N 0124732.0E	328	561	F R	Wind turbine
	7006	RYDA	581717.7N 0125346.0E	328	598	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	581346.5N 0125955.2E	328	629	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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	HÅBERG	581948.1N 0123459.5E	492	656	FLG R	Wind turbine
	9409	HÅBERG	582007.7N 0123506.6E	492	656	FLG R	Wind turbine
	9410	GRÄSTORP	582106.9N 0123730.3E	492	667	FLG R	Wind turbine
	9417	VARA	581603.6N 0125219.6E	328	600	F R	Wind turbine
	9446	HÅKANTORP	581816.9N 0125541.2E	456	696	FLG R	Wind turbine
	9447	HÅKANTORP	581831.1N 0125559.6E	456	692	FLG R	Wind turbine
	9471	GRINSTAD	583635.0N 0123026.5E	456	621	FLG R	Wind turbine
	9472	GRINSTAD	583618.5N 0123029.8E	456	621	FLG R	Wind turbine
	9482	VARA	581655.6N 0125918.9E	459	719	FLG R	Wind turbine
	9483	VARA	581702.2N 0125829.9E	459	719	FLG R	Wind turbine
	9484	VARA	581658.8N 0125855.5E	459	712	FLG R	Wind turbine
	9542	ESSUNGA	581144.9N 0124949.6E	492	784	FLG R	Wind turbine
	9543	ESSUNGA	581132.1N 0124940.9E	509	807	FLG R	Wind turbine
	9717	LILLA EDET	580829.4N 0120905.1E	331	797	FLG R	Wind turbine
	9774	FLAKEBERG	582012.0N 0124707.1E	459	687	FLG R	Wind turbine
	9775	FLAKEBERG	581959.3N 0124714.9E	459	688	FLG R	Wind turbine
	9776	FLAKEBERG	581946.7N 0124722.6E	459	692	FLG R	Wind turbine
	9777	FLAKEBERG	581923.3N 0124829.5E	459	702	FLG R	Wind turbine
	9778	VARA	581922.2N 0124802.4E	459	693	FLG R	Wind turbine
	9817	LILLA EDET	580854.0N 0120938.8E	456	906	FLG R	Wind turbine
	9818	LILLA EDET	580845.3N 0120839.4E	456	841	FLG R	Wind turbine
	9819	LILLA EDET	580859.9N 0121004.5E	456	843	FLG R	Wind turbine
	9830	GRÄSTORP	582141.2N 0123655.4E	492	662	FLG R	Wind turbine
	9987	GRINSTAD	583742.0N 0123004.6E	492	689	FLG R	Wind turbine
	10016	ERIKSTAD	583710.0N 0122542.5E	492	707	FLG R	Wind turbine
	10074	ERIKSTAD	583830.0N 0122556.6E	492	704	FLG R	Wind turbine
	10075	ERIKSTAD	583821.9N 0122625.2E	492	702	FLG R	Wind turbine
	10078	SVECKLINGEBYN	583924.7N 0122335.4E	492	723	FLG R	Wind turbine
	10079	SVECKLINGEBYN	583908.9N 0122354.1E	492	719	FLG R	Wind turbine
	10080	BOLSTAD	583414.4N 0122807.2E	489	671	FLG R	Wind turbine
	10125	BOLSTAD	583455.5N 0122930.0E	489	654	FLG R	Wind turbine
	10126	BOLSTAD	583459.9N 0122901.3E	489	653	FLG R	Wind turbine
	10127	BRÅLANDA	583438.0N 0122223.5E	489	686	FLG R	Wind turbine
	10128	BRÅLANDA	583436.8N 0122153.1E	489	689	FLG R	Wind turbine
	10203	LILLA EDET	580916.7N 0120846.9E	492	924	FLG R	Wind turbine
	10204	LILLA EDET	580901.5N 0120856.6E	492	912	FLG R	Wind turbine
	10205	LILLA EDET	580822.3N 0120931.7E	492	914	FLG R	Wind turbine
	10278	RANGELTORP	581323.5N 0125954.5E	489	794	FLG R	Wind turbine
	10504	GRÄSTORP	581738.1N 0124636.6E	459	709	FLG R	Wind turbine
	10505	GRÄSTORP	581721.9N 0124629.2E	459	712	FLG R	Wind turbine
	10761	LILLA EDET	580617.3N 0120423.9E	459	932	FLG R	Wind turbine
	10762	LILLA EDET	580633.0N 0120448.9E	459	887	FLG R	Wind turbine
	13130	RÄNSLIDEN	585025.9N 0121903.6E	656	1322	FLG W	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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 FÅRHAGA	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	581627.7N 0131528.5E	328	651	F R	Wind turbine
	7408	SKÅNINGS-ÅSAKA	582544.5N 0133009.4E (*)	328	722	F R	Wind turbine
|	7409	STOMMEN	582309.0N 0131204.4E	328	571	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	581706.4N 0131346.6E	331	646	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	706	F R	Wind turbine
|	8417	SALEBY	582254.7N 0131212.1E	335	581	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	582223.6N 0130325.1E	328	550	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	582600.1N 0130233.9E	328	535	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
	8579	HJÄLSTAD	583553.2N 0135940.3E	335	581	F R	Wind turbine
	8622	N VÅNGA	581549.0N 0131520.5E	328	676	FLG R	Wind turbine
	8668	KVÄNUM	581814.4N 0130828.1E	459	719	FLG R	Wind turbine
	8688	SKÖRSTORP	580722.2N 0134444.4E	456	1239	F R	Wind turbine
	8689	SKÖRSTORP	580712.4N 0134450.8E	456	1243	F R	Wind turbine
	8690	SKÖRSTORP	580702.2N 0134457.5E	456	1250	F R	Wind turbine
	8722	KVÄNUM	581806.7N 0130743.1E	459	716	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	TRÅVAD	581441.5N 0130332.8E	492	774	FLG R	Wind turbine
	10099	TRÅVAD	581354.4N 0130347.9E	492	781	FLG R	Wind turbine
	10100	TRÅVAD	581337.3N 0130458.2E	492	781	FLG R	Wind turbine
	10131	LARV	581236.3N 0130655.5E	456	794	FLG R	Wind turbine
	10132	LARV	581252.7N 0130642.9E	456	769	FLG R	Wind turbine
	10133	LARV	581257.6N 0130707.8E	456	784	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
	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
	10279	RANGELTORP	581325.4N 0130020.3E	489	795	FLG R	Wind turbine
	10519	SUNDSMARKEN	584714.4N 0135609.2E (*)	476	656	FLG R	Wind turbine
	10520	SUNDSMARKEN	584642.2N 0135627.4E (*)	476	702	FLG R	Wind turbine
	10521	SUNDSMARKEN	584657.9N 0135601.9E (*)	476	682	FLG R	Wind turbine
	10522	HÄRJEVAD	582051.4N 0130319.3E	459	696	FLG R	Wind turbine
	10523	HÄRJEVAD	582058.5N 0130258.7E	459	699	FLG R	Wind turbine
	10623	RANGELTORP	581254.5N 0130059.4E	492	791	FLG R	Wind turbine
	10624	SALEBY	582208.5N 0131109.1E	390	643	FLG R	Wind turbine
	10625	SALEBY	582215.0N 0131126.7E	390	623	FLG R	Wind turbine
	10626	SALEBY	582209.2N 0131145.3E	390	627	FLG R	Wind turbine
	10627	SALEBY	582202.4N 0131128.3E	390	627	FLG R	Wind turbine
	10664	VINKÖL	582026.1N 0131605.6E	492	794	FLG R	Wind turbine
	10665	VINKÖL	582026.2N 0131633.4E	492	801	FLG R	Wind turbine
	10666	VINKÖL	582026.4N 0131701.2E	492	804	FLG R	Wind turbine
	10667	VINKÖL	582107.0N 0131353.2E	492	768	FLG R	Wind turbine
	10668	VINKÖL	582057.5N 0131416.3E	492	768	FLG R	Wind turbine
	10669	VINKÖL	582112.5N 0131422.3E	492	768	FLG R	Wind turbine
	10677	SKALLMEJA	582346.8N 0131212.6E	459	702	FLG R	Wind turbine
	10691	ARNÄS	583852.7N 0133640.0E (*)	328	574	F R	Mast
	10774	KVÄNUM	581642.3N 0130802.8E	459	726	FLG R	Wind turbine
	10775	KVÄNUM	581649.5N 0130849.8E	459	719	FLG R	Wind turbine
	10776	KVÄNUM	581637.9N 0130823.5E	459	726	FLG R	Wind turbine
	10886	SKARSTAD	581821.7N 0130240.6E	459	697	FLG R	Wind turbine
	11378	TORKELSTORP	582140.5N 0131315.6E	456	723	FLG R	Wind turbine
	11379	TORKELSTORP	582136.2N 0131251.4E	456	726	FLG R	Wind turbine
	11441	JUNG	581855.6N 0130747.8E	459	708	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	581917.7N 0130350.5E	492	733	FLG R	Wind turbine
	11697	JUNG	581921.9N 0130412.5E	492	728	FLG R	Wind turbine
	11698	JUNG	581901.8N 0130429.2E	492	735	FLG R	Wind turbine
	11699	JUNG	581907.7N 0130451.6E	492	735	FLG R	Wind turbine
	11721	ARDALA	582149.4N 0131523.1E	492	787	FLG R	Wind turbine
	11722	ARDALA	582146.2N 0131553.3E	492	787	FLG R	Wind turbine
	11723	ARDALA	582152.2N 0131453.0E	492	774	FLG R	Wind turbine
	12266	HJÄLSTAD	583618.2N 0135950.1E	328	565	F R	Wind turbine
	13327	ANNEBERG	580842.8N 0134745.3E	568	1368	FLG W	Wind turbine
	13328	ANNEBERG	580828.3N 0134735.4E	568	1365	FLG W	Wind turbine
	13329	ANNEBERG	580813.9N 0134725.6E	568	1368	FLG W	Wind turbine
	14507	SKÖVDE	582308.4N 0135111.7E	328	787	F R	Chimney
	15663	FALKÖPING	580700.9N 0132313.0E	656	1295	FLG W	Wind turbine
	15664	FALKÖPING	580643.4N 0132310.1E	656	1297	FLG W	Wind turbine
	15665	FALKÖPING	580623.0N 0132312.6E	656	1289	FLG W	Wind turbine
	15681	ARDALA	582017.1N 0132105.5E	492	843	FLG R	Wind turbine
	16956	VÅMB	582303.8N 0134929.2E	335	841	unknown	Chimney
	17305	RÄVKULLEN	580604.3N 0133000.9E	335	980	unknown	Wind turbine
	17306	RÄVKULLEN	580611.1N 0133019.9E	335	982	unknown	Wind turbine
	17307	LILLEGÅRDSDUNGEN	580612.8N 0132957.4E	335	980	unknown	Wind turbine
	17308	RÄVKULLEN	580603.6N 0133034.8E	335	981	unknown	Wind turbine
	17309	GAMMELSTATEN	580701.7N 0134251.3E	492	1234	unknown	Wind turbine
	17310	SMÅLAND	580644.1N 0134233.0E	492	1246	unknown	Wind turbine
	17510	GATEGÅRDEN	581728.9N 0130757.9E	456	712	unknown	Wind turbine
	17514	LOMMAGÅRDEN	582302.1N 0131207.2E	328	575	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

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

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

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

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

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

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

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

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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	17406	VÄSTERGÅRDEN	582704.3N 0150330.7E	492	845	unknown	Wind turbine
	17407	GULLMOSSEN	582900.3N 0151017.2E	492	840	unknown	Wind turbine
	17411	LILLA KETTSTAKA	584232.5N 0150129.4E	404	1145	unknown	Mast
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
	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
	17387	SÖDRA FJÖLATJÄRNEN	592948.1N 0114443.4E	656	1559	unknown	Wind turbine
	17389	NORRA FJÖLATJÄRNEN	593029.2N 0114424.0E	656	1553	unknown	Wind turbine
	17390	NORRA FJÖLATJÄRNEN	593039.5N 0114406.4E	656	1610	unknown	Wind turbine
	17391	ARMBÅGMYREN	593059.4N 0114354.2E	656	1585	unknown	Wind turbine
	17392	FJÖLATJÄRNSDALEN	593000.2N 0114433.4E	656	1579	unknown	Wind turbine
59N 12E	249	SUNNE/BLÅBÄRSKULLEN	595011.4N 0125200.0E	860	2219	F R/FLG W	Mast
	251	ARVIKA/ÖRSHULTABERGET 2	593723.7N 0124016.4E	390	1158	F R	Mast
	258	KOPPOM	594239.0N 0120656.3E	354	1229	F R	Mast
	259	ÅRJÄNG	592413.7N 0120636.4E	381	1160	F R	Mast
	785	SILLERUD/MYSKHÖJDEN	592153.8N 0123924.6E	374	1060	F R	Mast
	958	SVANSKOG 2	590834.0N 0123429.0E	374	1131	F R	Mast
	8621	FENGERSFORS	590006.1N 0123318.1E	328	796	FLG R	Wind turbine
	10134	FENGERSFORS	590001.6N 0123303.3E	492	963	FLG R	Wind turbine
	10135	FENGERSFORS	590015.9N 0123302.3E	492	979	FLG R	Wind turbine
	11928	ÅRJÄNG	592524.5N 0120232.5E	591	1402	FLG W	Wind turbine
	11929	ÅRJÄNG	592548.1N 0120128.9E	591	1383	FLG W	Wind turbine
	11930	ÅRJÄNG	592549.1N 0120158.0E	591	1427	FLG W	Wind turbine
	11931	ÅRJÄNG	592534.6N 0120147.6E	591	1394	FLG W	Wind turbine
	11932	ÅRJÄNG	592536.1N 0120215.1E	591	1404	FLG W	Wind turbine
	11933	ÅRJÄNG	592509.9N 0120220.7E	591	1417	FLG W	Wind turbine
	11934	ÅRJÄNG	592515.7N 0120154.8E	591	1444	FLG W	Wind turbine
	11935	ÅRJÄNG	592520.7N 0120122.0E	591	1381	FLG W	Wind turbine
	11936	ÅRJÄNG	592532.1N 0120101.6E	591	1342	FLG W	Wind turbine
	11967	ÅRJÄNG	592207.5N 0120332.5E	591	1383	FLG W	Wind turbine
	11968	ÅRJÄNG	592200.1N 0120300.6E	591	1407	FLG W	Wind turbine
	11970	ÅRJÄNG	592140.7N 0120231.3E	591	1394	FLG W	Wind turbine
	11971	ÅRJÄNG	592140.3N 0120301.1E	591	1411	FLG W	Wind turbine
	11972	ÅRJÄNG	592155.3N 0120221.6E	591	1332	FLG W	Wind turbine
	11973	ÅRJÄNG	592125.5N 0120248.1E	591	1394	FLG W	Wind turbine
	11974	ÅRJÄNG	592126.0N 0120320.5E	591	1427	FLG W	Wind turbine
	11975	ÅRJÄNG	592141.5N 0120332.0E	591	1411	FLG W	Wind turbine
	11976	ÅRJÄNG	592152.8N 0120348.3E	591	1401	FLG W	Wind turbine
	11977	ÅRJÄNG	592134.5N 0120402.4E	591	1362	FLG W	Wind turbine
	11978	ÅRJÄNG	592110.3N 0120325.2E	591	1362	FLG W	Wind turbine
	11979	ÅRJÄNG	592107.8N 0120254.8E	591	1335	FLG W	Wind turbine
	11980	ÅRJÄNG	592054.0N 0120323.5E	591	1362	FLG W	Wind turbine
	14002	SUNNE	594641.5N 0125738.2E	656	1686	FLG W	Wind turbine
	14003	SUNNE	594639.7N 0125801.2E	656	1680	F R	Wind turbine
	14004	SUNNE	594624.3N 0125719.9E	656	1601	F R	Wind turbine
	14005	SUNNE	594609.7N 0125742.2E	656	1572	FLG W	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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	ÅRJÄNG	592457.5N 0120154.2E	755	1552	FLG W	Wind turbine
	15217	ÅRJÄNG	592453.0N 0120235.6E	755	1535	F R	Wind turbine
	15218	ÅRJÄNG	592442.8N 0120342.8E	755	1493	FLG W	Wind turbine
	15219	ÅRJÄNG	592436.1N 0120216.7E	755	1526	F R	Wind turbine
	15220	ÅRJÄNG	592430.7N 0120259.4E	755	1555	F R	Wind turbine
	15221	ÅRJÄNG	592425.7N 0120337.8E	755	1532	F R	Wind turbine
	15222	ÅRJÄNG	592411.9N 0120251.5E	755	1493	FLG W	Wind turbine
	15223	ÅRJÄNG	592449.1N 0120307.8E	755	1578	F R	Wind turbine
	15516	SUNNE	594721.9N 0125639.0E	656	1677	FLG W	Wind turbine
	15517	SUNNE	594708.9N 0125702.4E	656	1624	FLG W	Wind turbine
	15518	SUNNE	594700.3N 0125738.8E	656	1608	FLG W	Wind turbine
59N 13E	260	KARLSTAD/SÖRMON/1	592331.4N 0132259.5E	604	938	F R/FLG W	Mast
	966	KARLSTAD	592311.6N 0133419.4E	430	593	F R	Chimney
	4012	GRUMS	592022.4N 0130705.7E	341	501	F R	Chimney
	4508	KARLSTAD/SÖRMON/2	592330.9N 0132256.4E	328	627	F R	Mast
	8277	ÖLSERUD	590059.2N 0130930.5E	328	521	F R	Wind turbine
	8288	AMÖN	592119.4N 0134550.4E (*)	328	558	F R	Wind turbine
	10592	BLOMBACKA	593806.0N 0135327.9E	482	1221	FLG R	Wind turbine
	10593	BLOMBACKA	593757.8N 0135336.6E	482	1207	FLG R	Wind turbine
	11516	SEGERSTADS SKÄRGÅRD	591601.2N 0132132.3E	469	624	FLG R	Wind turbine
	11517	SEGERSTADS SKÄRGÅRD	591552.0N 0132206.1E	469	623	FLG R	Wind turbine
	11518	SEGERSTADS SKÄRGÅRD	591555.7N 0132256.5E (*)	469	623	FLG R	Wind turbine
	11519	SEGERSTADS SKÄRGÅRD	591526.7N 0132053.8E (*)	469	623	FLG R	Wind turbine
	11520	SEGERSTADS SKÄRGÅRD	591529.3N 0132304.0E (*)	469	624	FLG R	Wind turbine
	11521	SEGERSTADS SKÄRGÅRD	591551.5N 0132328.7E (*)	469	627	FLG R	Wind turbine
	11522	SEGERSTADS SKÄRGÅRD	591556.1N 0132414.3E (*)	469	623	FLG R	Wind turbine
	11523	SEGERSTADS SKÄRGÅRD	591550.8N 0132452.9E (*)	469	626	FLG R	Wind turbine
	11524	SEGERSTADS SKÄRGÅRD	591533.3N 0132341.3E (*)	469	625	FLG R	Wind turbine
	11525	SEGERSTADS SKÄRGÅRD	591537.1N 0132421.7E (*)	469	625	FLG R	Wind turbine
	14006	SUNNE	594732.0N 0130003.8E	656	1860	F R	Wind turbine
	14007	SUNNE	594714.8N 0130011.3E	656	1890	FLG W	Wind turbine
	14008	SUNNE	594701.5N 0130053.5E	656	1864	FLG W	Wind turbine
	14009	SUNNE	594650.9N 0130117.5E	656	1824	F R	Wind turbine
	14012	SUNNE	594655.7N 0130011.1E	656	1811	F R	Wind turbine
	14013	SUNNE	594644.6N 0130036.2E	656	1742	F R	Wind turbine
	14014	SUNNE	594630.0N 0130111.6E	656	1634	FLG W	Wind turbine
	14039	KARLSTAD	592217.3N 0132957.9E	338	490	F R	Building
	15519	SUNNE	594155.4N 0130257.7E	656	1542	FLG W	Wind turbine
	15520	SUNNE	594142.2N 0130309.6E	656	1509	FLG W	Wind turbine
	15521	SUNNE	594146.3N 0130356.7E	656	1512	FLG W	Wind turbine
	15522	SUNNE	594147.8N 0130439.1E	656	1526	FLG W	Wind turbine
	15523	SUNNE	594124.1N 0130516.0E	656	1496	FLG W	Wind turbine
	15524	SUNNE	594112.1N 0130514.6E	656	1483	FLG W	Wind turbine
	15525	SUNNE	594058.1N 0130515.5E	656	1483	FLG W	Wind turbine
	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	LÄRNÅS	592514.2N 0140414.6E (*)	328	840	F R	Mast
	9742	KRISTINEHAMN	591701.9N 0141313.2E (*)	328	869	F R	Mast

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Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	10346	LÄMÅS	590203.1N 0142141.5E (*)	492	906	FLG R	Wind turbine
	10347	LÄMÅS	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
	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

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	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
	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
59N 15E	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	MOSÅS	591112.9N 0150738.9E (*)	492	620	FLG R	Wind turbine
	11212	MOSÅS	591055.5N 0150734.3E (*)	492	610	FLG R	Wind turbine
	11538	VÄSTTORP	590754.7N 0155148.1E (*)	492	751	FLG R	Wind turbine
	12582	PÅLSBODA	590556.2N 0152146.7E (*)	479	827	FLG R	Wind turbine
	12583	PÅLSBODA	590542.4N 0152203.1E (*)	479	846	FLG R	Wind turbine
	12584	PÅLSBODA	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	VÄSTERÅS/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	VÄSTERÅS	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	VÄSTERÅS	593512.4N 0163031.8E	361	384	F R	Chimney
	12125	ESKILSTUNA	591959.7N 0163456.2E	400	638	FLG W	Mast
	13583	VÄSTERÅS	593522.8N 0163023.8E	366	405	F R	Tower, Chimney
	15832	SUNDBY	592506.0N 0163808.3E	492	502	FLG R	Wind turbine
	15833	SUNDBY	592458.1N 0163820.2E	492	502	FLG R	Wind turbine
	15834	SUNDBY	592450.3N 0163832.2E	492	499	FLG R	Wind turbine
	15835	SUNDBY	592444.6N 0163847.9E	492	499	FLG R	Wind turbine
	15836	SUNDBY	592430.5N 0163832.0E	492	502	FLG R	Wind turbine
	15837	SUNDBY	592416.4N 0163819.2E	492	502	FLG R	Wind turbine
	15838	SUNDBY	592404.1N 0163802.4E	492	502	FLG R	Wind turbine
	15839	SUNDBY	592413.7N 0163745.2E	492	502	FLG R	Wind turbine
	15840	SUNDBY	592427.5N 0163738.7E	492	522	FLG R	Wind turbine
	16967	JOHANNISBERG	593514.3N 0163044.6E	394	405	unknown	Chimney
59N 17E	293	UPPSALA DOMKYRKA	595128.9N 0173757.7E	377	429	-	Church

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	300	UPPSALA/BRÄNNUGNEN	595107.9N 0174032.6E	344	380	F R	Chimney
	301	BÅLSTA/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.
	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
	17337	VÅRDINGE	590133.3N 0172452.1E	351	584	F R	Mast
59N 18E	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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	604243.4N 0125416.6E	400	1632	F R	Mast
60N 13E	353	LOFFSTRAND/ENNARBOL	601831.9N 0132257.2E	384	1545	F R	Mast
	359	MALUNG	604000.9N 0133926.0E	344	1995	F R	Mast
	8720	BYRÅSEN	604004.8N 0133900.4E	387	1982	FLG R	Wind turbine
	8721	BYRÅSEN	603958.6N 0133913.9E	387	1999	FLG R	Wind turbine
	10036	KYRKBERGET	605241.3N 0133645.5E	463	2539	FLG R	Wind turbine
	10037	KYRKBERGET	605254.1N 0133647.5E	463	2546	F R	Wind turbine
	10038	KYRKBERGET	605305.1N 0133652.0E	463	2523	FLG R	Wind turbine
	10039	KYRKBERGET	605317.7N 0133650.2E	463	2474	F R	Wind turbine
	10040	KYRKBERGET	605328.7N 0133655.1E	463	2497	FLG R	Wind turbine
	10041	KYRKBERGET	605351.7N 0133709.2E	463	2516	FLG R	Wind turbine
	10042	KYRKBERGET	605340.8N 0133708.8E	463	2562	F R	Wind turbine
	10043	KYRKBERGET	605341.4N 0133743.1E	463	2503	FLG R	Wind turbine
	10044	KYRKBERGET	605314.2N 0133721.1E	463	2585	FLG R	Wind turbine
	10045	KYRKBERGET	605322.4N 0133750.3E	463	2562	FLG R	Wind turbine
	10494	ST. SVEDBERGET	602123.4N 0135643.5E	492	2149	FLG R	Wind turbine
	10495	ST. SVEDBERGET	602104.3N 0135634.3E	492	2178	FLG R	Wind turbine
	10496	ST. SVEDBERGET	602050.1N 0135651.7E	492	2297	FLG R	Wind turbine
	10497	ST. SVEDBERGET	602034.9N 0135655.4E	492	2336	FLG R	Wind turbine
	10498	ST. SVEDBERGET	602016.2N 0135649.8E	492	2247	FLG R	Wind turbine
	10499	ST. SVEDBERGET	602005.0N 0135620.1E	492	2172	FLG R	Wind turbine
	10500	ST. SVEDBERGET	602014.0N 0135536.9E	492	2175	FLG R	Wind turbine
	10501	ST. SVEDBERGET	602033.4N 0135601.3E	492	2208	FLG R	Wind turbine
	10502	ST. SVEDBERGET	602050.5N 0135548.8E	492	2192	FLG R	Wind turbine
	11601	ÄPPELBO / HÅBERGET	602408.2N 0135347.2E	574	2067	FLG W	Wind turbine
	11602	ÄPPELBO / HÅBERGET	602350.8N 0135422.1E	574	2300	FLG W	Wind turbine
	11603	ÄPPELBO / HÅBERGET	602334.9N 0135407.9E	574	2316	FLG W	Wind turbine
	11604	ÄPPELBO / HÅBERGET	602320.7N 0135338.7E	574	2169	FLG W	Wind turbine
	11605	ÄPPELBO / HÅBERGET	602311.3N 0135515.6E	574	2139	FLG W	Wind turbine
	11606	ÄPPELBO / HÅBERGET	602259.6N 0135531.5E	574	2228	FLG W	Wind turbine
	11607	ÄPPELBO / HÅBERGET	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	9116	GRÄNGESBERG	600744.6N 0145501.9E	492	1837	FLG R	Wind turbine
	9117	GRÄNGESBERG	600609.2N 0145513.4E	492	1965	FLG R	Wind turbine
	9118	GRÄNGESBERG	600725.9N 0145417.1E	492	1877	F R	Wind turbine
	9124	SÄLEN	604855.8N 0142411.1E	410	2053	FLG R	Wind turbine
	9125	SÄLEN	604838.8N 0142403.2E	410	2118	F R	Wind turbine
	9126	SÄLEN	604833.2N 0142428.2E	410	2176	F R	Wind turbine
	9127	SÄLEN	604824.0N 0142402.3E	410	2187	FLG R	Wind turbine
	9128	SÄLEN	604759.6N 0142411.7E	410	2263	FLG R	Wind turbine
	9129	SÄLEN	604748.6N 0142406.8E	410	2231	F R	Wind turbine
	9130	SÄLEN	604735.5N 0142359.2E	410	2332	F R	Wind turbine
	9131	SÄLEN	604725.0N 0142408.1E	410	2291	FLG R	Wind turbine
	13619	GRÄNGESBERG	600545.7N 0145326.9E	591	1936	F R	Wind turbine
	13620	GRÄNGESBERG	600541.7N 0145352.2E	591	1949	FLG W	Wind turbine
	16995	BADDOBERGET	600550.1N 0145259.1E	591	1913	unknown	Wind turbine
60N 15E	363	BORLÄNGE/IDKERBERGET	602256.3N 0150818.2E	1073	2676	FLG W	Mast
	370	VIKMANSHYTTAN	601838.9N 0154929.5E	338	971	F R	Mast
	3613	FALUN/LÖVBERGET	603735.0N 0153406.8E	371	1074	F R	Mast
	8398	UVBERGET	600942.6N 0152358.2E	328	1322	FLG R	Wind turbine
	9046	SÖRSKOG	604810.3N 0152323.8E	459	1969	FLG R	Wind turbine
	9047	SÖRSKOG	604756.9N 0152330.6E	459	1969	FLG R	Wind turbine
	9048	SÖRSKOG	604728.1N 0152406.6E	459	1949	FLG R	Wind turbine
	9049	SÖRSKOG	604719.3N 0152344.7E	459	1893	FLG R	Wind turbine
	9050	SÖRSKOG	604743.5N 0152434.2E	459	1952	FLG R	Wind turbine
	9879	UVBERGET	600949.3N 0152413.5E	328	1286	FLG R	Wind turbine
	9885	TAVELBERGET	605208.3N 0155757.2E	492	1936	FLG R	Wind turbine
	9886	TAVELBERGET	605154.2N 0155814.4E	492	1936	FLG R	Wind turbine
	9887	TAVELBERGET	605136.3N 0155748.6E	492	1962	FLG R	Wind turbine
	9888	TAVELBERGET	605123.0N 0155729.8E	492	1982	FLG R	Wind turbine
	9889	TAVELBERGET	605114.3N 0155754.8E	492	1936	FLG R	Wind turbine
	12702	TAVELBERGET	605135.1N 0155846.5E	492	1962	FLG R	Wind turbine
	13738	IDKERBERGET	602205.8N 0150528.0E	489	2024	FLG R	Wind turbine
	13739	IDKERBERGET	602150.1N 0150515.1E	489	1955	FLG R	Wind turbine
	13740	IDKERBERGET	602155.7N 0150553.2E	489	2014	FLG R	Wind turbine
	13741	IDKERBERGET	602145.3N 0150621.4E	489	1982	FLG R	Wind turbine
	13742	IDKERBERGET	602130.2N 0150547.2E	489	1965	FLG R	Wind turbine
	13743	IDKERBERGET	602106.3N 0150548.7E	489	1896	FLG R	Wind turbine
	13744	IDKERBERGET	602118.0N 0150614.4E	489	1985	FLG R	Wind turbine
	13745	IDKERBERGET	602111.2N 0150644.6E	489	1972	FLG R	Wind turbine
	13746	IDKERBERGET	602055.7N 0150635.8E	489	2005	FLG R	Wind turbine
	17219	LUDVIKA	600123.6N 0150931.5E	656	1799	F R	Wind turbine
	17220	LUDVIKA	600109.1N 0150937.2E	656	1765	F R	Wind turbine
	17221	LUDVIKA	600112.8N 0150853.9E	656	1774	FLG W	Wind turbine
	17222	LUDVIKA	600055.4N 0150915.1E	656	1749	F R	Wind turbine
	17223	LUDVIKA	600028.8N 0150851.8E	656	1726	FLG W	Wind turbine
	17224	LUDVIKA	600033.2N 0151012.8E	656	1766	F R	Wind turbine
	17225	LUDVIKA	600046.8N 0151018.2E	656	1809	F R	Wind turbine
	17226	LUDVIKA	600100.6N 0151001.8E	656	1881	F R	Wind turbine
	17227	LUDVIKA	600122.5N 0151006.5E	656	1865	FLG W	Wind turbine
	17228	LUDVIKA	600108.7N 0151030.4E	656	1883	F R	Wind turbine

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	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
	10310	VETTÅSEN	604647.4N 0163527.1E	492	1289	FLG R	Wind turbine
	10323	MÅRTENSKLACK	604843.7N 0163921.6E	492	1332	FLG R	Wind turbine
	10324	MÅRTENSKLACK	604834.7N 0163942.8E	492	1378	FLG R	Wind turbine
	10325	MÅRTENSKLACK	604848.6N 0163946.1E	492	1332	FLG R	Wind turbine
	10326	MÅRTENSKLACK	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

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

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

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

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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	15779	HOFORS	602001.5N 0162737.0E	656	1242	FLG R	Wind turbine
	15780	HOFORS	601940.2N 0162806.0E	656	1188	FLG W	Wind turbine
	15781	HOFORS	601828.6N 0163117.7E	656	1169	FLG W	Wind turbine
	15782	HOFORS	601830.4N 0163223.4E	656	1167	FLG W	Wind turbine
	15783	HOFORS	601832.0N 0163308.3E	656	1144	FLG R	Wind turbine
	15888	LÅNGHYTTAN	603113.8N 0160444.5E	335	1385	F R	Mast
	16280	TROLLBERGET	604212.7N 0160050.9E	492	1572	unknown	Wind turbine
	16284	SNEÅSEN	604750.1N 0161939.0E	574	1697	unknown	Wind turbine
60N 17E	383	GÄVLE	603751.2N 0170745.5E	1070	1232	F R/FLG W	Mast
	384	SKUTSKÄR	603844.2N 0172315.8E	394	423	F R	Chimney
	386	GÄVLE/KARSKÄRSVERKEN	604058.3N 0171616.2E	482	496	F R	Chimney
	681	SALSTA/SLÄSBY	600445.2N 0174950.2E	374	606	F R	Mast
	1145	TÄRNSJÖ	600921.5N 0170226.8E	348	523	F R	Mast
	1402	EDSBO	601759.9N 0172029.1E	338	469	F R	Mast
	1611	NORUNDA	600511.0N 0172846.2E	341	483	F R	Mast
	2305	GÄVLE/STUREBORG	603824.8N 0170759.8E	361	531	F R	Mast
	3224	TOBO	601712.7N 0173959.8E	394	539	F R	Mast
	6370	SKUTSKÄR	603843.1N 0172320.6E	335	347	F R	Chimney
	9614	SKUTSKÄR	603912.3N 0172259.9E	492	505	FLG R	Wind turbine
	9615	SKUTSKÄR	603914.8N 0172326.0E	492	505	FLG R	Wind turbine
	9616	SKUTSKÄR	603914.1N 0172402.1E	492	502	FLG R	Wind turbine
	9617	SKUTSKÄR	603917.0N 0172421.2E	492	505	FLG R	Wind turbine
	9618	SKUTSKÄR	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	KARSKÄR	604053.1N 0171621.2E	328	342	unknown	Chimney
	16744	KARSKÄR	604051.4N 0171621.2E	381	396	unknown	Chimney
	16745	KARSKÄR	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	GRISSLEHAMN	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	12377	FORSMARK	602430.8N 0180951.0E	335	350	F R	Mast
61N 13E	407	TRANSTRAND	610307.9N 0131812.2E	367	2330	F R	Mast
	10046	BOSSEL-ANDERSKITT	611245.6N 0135053.5E	410	2467	FLG R	Wind turbine
	10047	BOSSEL-ANDERSKITT	611231.3N 0135041.3E	410	2500	FLG R	Wind turbine
	10048	BOSSEL-ANDERSKITT	611233.1N 0135104.0E	410	2480	FLG R	Wind turbine
	10049	BOSSEL-ANDERSKITT	611223.8N 0135120.2E	410	2464	FLG R	Wind turbine
	10050	BOSSEL-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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
61N 14E	409	MORA/ELDRIS	610101.5N 0141743.7E	1063	2817	FLG W	Mast
	410	SVEG/BRICKAN	615524.8N 0141844.4E	1063	3394	F R/FLG W	Mast
	412	KRÄCKELBÄCKEN	612934.0N 0141229.0E	335	2667	F R	Mast
	8663	BRICKAN	615520.0N 0141826.1E	410	2670	F R	Wind turbine
	11919	BÖSJÖVARDEN	611907.4N 0142004.1E	492	2625	FLG R	Wind turbine
	11920	BÖSJÖVARDEN	611852.6N 0141947.9E	492	2730	FLG R	Wind turbine
	11921	BÖSJÖVARDEN	611855.1N 0141914.8E	492	2644	FLG R	Wind turbine
	11923	BÖSJÖVARDEN	611827.2N 0141904.3E	492	2575	FLG R	Wind turbine
	11924	BÖSJÖVARDEN	611817.1N 0141930.4E	492	2575	FLG R	Wind turbine
	11925	BÖSJÖVARDEN	611831.9N 0141957.5E	492	2621	FLG R	Wind turbine
	11926	BÖSJÖVARDEN	611756.7N 0141922.3E	492	2520	FLG R	Wind turbine
	11927	BÖSJÖVARDEN	611803.4N 0142003.7E	492	2520	FLG R	Wind turbine
	12090	MÄSSINGBERGET	611934.9N 0143717.4E	476	2343	FLG R	Wind turbine
	12091	MÄSSINGBERGET	611931.8N 0143632.3E	476	2316	FLG R	Wind turbine
	12092	MÄSSINGBERGET	611920.4N 0143653.9E	476	2395	F R	Wind turbine
	12093	MÄSSINGBERGET	611911.0N 0143716.6E	476	2329	FLG R	Wind turbine
	12094	MÄSSINGBERGET	611853.9N 0143714.9E	476	2320	FLG R	Wind turbine
	12095	MÄSSINGBERGET	611902.6N 0143640.0E	476	2375	FLG R	Wind turbine
	12096	MÄSSINGBERGET	611914.2N 0143605.4E	476	2372	F R	Wind turbine
	12097	MÄSSINGBERGET	611924.2N 0143537.2E	476	2349	FLG R	Wind turbine
	12098	MÄSSINGBERGET	611917.0N 0143507.7E	476	2316	FLG R	Wind turbine
	12099	MÄSSINGBERGET	611901.7N 0143510.8E	476	2314	FLG R	Wind turbine
	12100	MÄSSINGBERGET	611856.5N 0143559.0E	476	2329	FLG R	Wind turbine
	14418	SKAFTÅSEN	614555.9N 0142610.5E	505	2382	F R	Wind turbine
	14419	SKAFTÅSEN	614545.0N 0142557.5E	331	2165	F R	Wind turbine
	14420	SKAFTÅSEN	614351.3N 0143027.1E	381	2449	F R	Wind turbine
	14547	ÅNDBERGET	614337.2N 0140014.9E	591	2595	FLG W	Wind turbine
	14558	ÅNDBERGET	614255.6N 0140040.0E	591	2812	F R	Wind turbine
	14559	ÅNDBERGET	614243.7N 0140103.1E	591	2940	F R	Wind turbine
	14563	ÅNDBERGET	614225.7N 0140111.9E	591	2808	F R	Wind turbine
	14565	ÅNDBERGET	614203.8N 0140027.9E	591	2861	F R	Wind turbine
	14566	ÅNDBERGET	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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	MICKELSBRÄNNAN	614116.1N 0152432.4E	335	1856	unknown	Mast
	17344	LOS VERK 1	615042.7N 0150946.3E	722	2359	FLG W	Wind turbine
	17345	LOS VERK 2	615115.8N 0151022.2E	722	2346	F R	Wind turbine
	17346	LOS VERK 3	615137.7N 0151049.4E	722	2453	F R	Wind turbine
	17347	LOS VERK 4	615137.0N 0151135.3E	722	2546	FLG W	Wind turbine
	17348	LOS VERK 5	615158.0N 0151143.2E	722	2395	FLG W	Wind turbine
	17349	LOS VERK 6	615136.1N 0150956.2E	656	2283	F R	Wind turbine

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Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	17350	LOS VERK 7	615201.7N 0150945.2E	722	2415	F R	Wind turbine
	17351	LOS VERK 8	615225.5N 0150957.9E	722	2393	F R	Wind turbine
	17352	LOS VERK 9	615242.8N 0150910.8E	722	2379	F R	Wind turbine
	17353	LOS VERK 10	615203.3N 0151049.0E	722	2379	F R	Wind turbine
	17354	LOS VERK 11	615149.3N 0150848.5E	722	2359	F R	Wind turbine
	17355	LOS VERK 12	615211.7N 0150813.9E	722	2490	FLG W	Wind turbine
	17356	LOS VERK 13	615310.6N 0150800.2E	722	2490	FLG W	Wind turbine
	17357	LOS VERK 14	615318.7N 0150841.5E	722	2500	F R	Wind turbine
	17358	LOS VERK 15	615305.1N 0150932.0E	722	2343	FLG W	Wind turbine
	17359	LOS VERK 16	615339.9N 0150727.0E	722	2428	F R	Wind turbine
	17360	LOS VERK 17	615402.9N 0150701.3E	722	2299	FLG W	Wind turbine
	17361	LOS VERK 18	615339.0N 0150807.8E	722	2476	F R	Wind turbine
	17362	LOS VERK 19	615359.6N 0150801.5E	722	2344	F R	Wind turbine
	17363	LOS VERK 20	615415.2N 0150736.6E	722	2274	F R	Wind turbine
	17364	LOS VERK 21	615341.6N 0150850.5E	722	2380	F R	Wind turbine
	17365	LOS VERK 22	615403.8N 0150859.5E	722	2365	F R	Wind turbine
	17366	LOS VERK 23	615423.9N 0150847.6E	722	2359	F R	Wind turbine
	17367	LOS VERK 24	615418.5N 0150959.5E	722	2390	F R	Wind turbine
	17368	LOS VERK 25	615420.0N 0151100.6E	722	2365	FLG W	Wind turbine
	17369	LOS VERK 26	615444.8N 0150956.7E	722	2274	F R	Wind turbine
	17370	LOS VERK 27	615436.1N 0151053.3E	722	2473	F R	Wind turbine
	17371	LOS VERK 28	615513.3N 0150951.1E	722	2317	F R	Wind turbine
	17372	LOS VERK 29	615528.5N 0150912.1E	722	2493	F R	Wind turbine
	17373	LOS VERK 30	615550.3N 0150947.4E	722	2421	F R	Wind turbine
	17374	LOS VERK 31	615539.8N 0151038.6E	722	2406	F R	Wind turbine
	17375	LOS VERK 32	615544.7N 0151129.6E	722	2207	FLG W	Wind turbine
	17376	LOS VERK 33	615548.0N 0150841.4E	722	2311	F R	Wind turbine
	17377	LOS VERK 34	615609.0N 0150837.6E	722	2365	F R	Wind turbine
	17378	LOS VERK 35	615504.5N 0150841.0E	722	2380	F R	Wind turbine
	17379	LOS VERK 36	615444.1N 0150842.0E	722	2268	F R	Wind turbine
	17380	LOS VERK 37	615538.1N 0150802.1E	722	2379	FLG W	Wind turbine
	17381	LOS VERK 38	615549.1N 0150727.3E	722	2444	F R	Wind turbine
	17382	LOS VERK 39	615609.2N 0150656.1E	722	2528	FLG W	Wind turbine
	17383	LOS VERK 40	615601.5N 0150757.5E	722	2484	F R	Wind turbine
	17384	LOS VERK 41	615621.1N 0150753.2E	722	2446	F R	Wind turbine
	17385	LOS VERK 42	615637.1N 0150840.9E	722	2313	FLG W	Wind turbine
61N 16E	419	HUDIKSVALL	614224.8N 0165121.7E	1099	2154	FLG W	Mast
	422	BOLLNÄS/ARBRÅ	612900.5N 0161245.8E	1096	2482	FLG W	Mast
	10115	FLÄSTA	612756.6N 0162827.9E	492	1608	FLG R	Wind turbine
	10116	FLÄSTA	612747.1N 0162849.7E	492	1585	FLG R	Wind turbine
	10117	FLÄSTA	612747.7N 0162922.6E	492	1631	FLG R	Wind turbine
	10416	VACKERDALSBEGET	610357.9N 0163414.6E	476	1575	FLG R	Wind turbine
	10417	VACKERDALSBERGET	610352.9N 0163501.9E	476	1549	FLG R	Wind turbine
	10418	VACKERDALSBEGET	610404.2N 0163443.5E	476	1568	FLG R	Wind turbine
	11051	FALLÅSBERGET	610225.3N 0163624.3E	492	1457	FLG R	Wind turbine
	11052	FALLÅSBERGET	610231.5N 0163558.9E	492	1447	FLG R	Wind turbine
	11053	FALLÅSBERGET	610235.7N 0163520.9E	492	1329	FLG R	Wind turbine
	11054	FALLÅSBERGET	610246.7N 0163546.3E	492	1437	FLG R	Wind turbine
	11055	FALLÅSBERGET	610259.9N 0163547.7E	492	1309	FLG R	Wind turbine
	11056	FALLÅSBERGET	610252.1N 0163515.4E	492	1407	F R	Wind turbine
	11057	FALLÅSBERGET	610239.7N 0163453.8E	492	1355	FLG R	Wind turbine
	11058	FALLÅSBERGET	610303.6N 0163453.0E	492	1430	FLG R	Wind turbine
	11059	FALLÅSBERGET	610250.8N 0163433.3E	492	1381	FLG R	Wind turbine
	11060	FALLÅSBERGET	610302.2N 0163420.7E	492	1365	FLG R	Wind turbine
	13245	SÖDERVALLSÅSEN	613650.5N 0160315.8E	492	1919	FLG R	Wind turbine
	13246	SÖDERVALLSÅSEN	613638.2N 0160306.3E	492	1926	FLG R	Wind turbine
	13247	SÖDERVALLSÅSEN	613640.7N 0160408.6E	492	1939	FLG R	Wind turbine
	13248	SÖDERVALLSÅSEN	613614.9N 0160408.4E	492	2008	FLG R	Wind turbine
	13249	SÖDERVALLSÅSEN	613643.2N 0160446.7E	492	1959	FLG R	Wind turbine
	13250	SÖDERVALLSÅSEN	613605.8N 0160427.3E	492	1985	FLG R	Wind turbine
	13251	SÖDERVALLSÅSEN	613623.7N 0160445.3E	492	1919	FLG R	Wind turbine
	13252	SÖDERVALLSÅSEN	613611.6N 0160450.7E	492	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
	13253	SÖDERVALLSÅSEN	613619.9N 0160509.5E	492	1942	FLG R	Wind turbine
	13254	SÖDERVALLSÅSEN	613614.7N 0160538.0E	492	1857	FLG R	Wind turbine
	13255	SÖDERVALLSÅSEN	613603.2N 0160608.4E	492	1818	FLG R	Wind turbine
	13256	SÖDERVALLSÅSEN	613528.3N 0160421.6E	492	2001	FLG R	Wind turbine
	13257	SÖDERVALLSÅSEN	613548.8N 0160604.8E	492	1886	FLG R	Wind turbine
	13258	SÖDERVALLSÅSEN	613521.1N 0160500.8E	492	1969	FLG R	Wind turbine
	13259	SÖDERVALLSÅSEN	613550.6N 0160645.5E	492	1821	FLG R	Wind turbine
	13260	SÖDERVALLSÅSEN	613604.1N 0160726.4E	492	1808	FLG R	Wind turbine
	13262	SÖDERVALLSÅSEN	613521.7N 0160606.0E	492	1903	FLG R	Wind turbine
	13263	SÖDERVALLSÅSEN	613534.5N 0160640.0E	492	1831	FLG R	Wind turbine
	13264	SÖDERVALLSÅSEN	613532.5N 0160723.3E	492	1893	FLG R	Wind turbine
	13265	SÖDERVALLSÅSEN	613547.9N 0160753.4E	492	1768	FLG R	Wind turbine
	13266	SÖDERVALLSÅSEN	613455.3N 0160524.7E	492	1837	FLG R	Wind turbine
	13267	SÖDERVALLSÅSEN	613506.1N 0160612.6E	492	1890	FLG R	Wind turbine
	13268	SÖDERVALLSÅSEN	613516.4N 0160650.6E	492	1795	FLG R	Wind turbine
	13269	SÖDERVALLSÅSEN	613518.1N 0160814.7E	492	1798	FLG R	Wind turbine
	13270	SÖDERVALLSÅSEN	613509.5N 0160953.6E	492	1709	FLG R	Wind turbine
	13271	SÖDERVALLSÅSEN	613504.2N 0161016.5E	492	1722	FLG R	Wind turbine
	13272	SÖDERVALLSÅSEN	613451.3N 0161016.4E	492	1745	FLG R	Wind turbine
	13273	SÖDERVALLSÅSEN	613435.2N 0160516.7E	492	2054	FLG R	Wind turbine
	13274	SÖDERVALLSÅSEN	613432.0N 0160443.9E	492	1985	FLG R	Wind turbine
	13275	SÖDERVALLSÅSEN	613424.9N 0160501.7E	492	2077	FLG R	Wind turbine
	13276	SÖDERVALLSÅSEN	613418.4N 0160527.4E	492	2011	FLG R	Wind turbine
	13277	SÖDERVALLSÅSEN	613433.2N 0160602.8E	492	1909	FLG R	Wind turbine
	13278	SÖDERVALLSÅSEN	613409.2N 0160658.1E	492	1909	FLG R	Wind turbine
	13279	SÖDERVALLSÅSEN	613403.9N 0160719.7E	492	1837	FLG R	Wind turbine
	13280	SÖDERVALLSÅSEN	613340.7N 0160727.6E	492	1804	FLG R	Wind turbine
	13281	SÖDERVALLSÅSEN	613334.1N 0160804.1E	492	1824	FLG R	Wind turbine
	13747	TÖNSEN	610834.3N 0162732.7E	591	1716	FLG W	Wind turbine
	13748	TÖNSEN	610823.8N 0162806.7E	591	1650	F R	Wind turbine
	13749	TÖNSEN	610819.8N 0162842.3E	591	1640	F R	Wind turbine
	13750	TÖNSEN	610853.4N 0162837.7E	591	1677	FLG W	Wind turbine
	13751	TÖNSEN	610833.8N 0162912.2E	591	1657	F R	Wind turbine
	13752	TÖNSEN	610804.9N 0162913.5E	591	1667	F R	Wind turbine
	13753	TÖNSEN	610828.7N 0163002.8E	591	1663	FLG W	Wind turbine
	13754	TÖNSEN	610809.2N 0163011.0E	591	1693	FLG W	Wind turbine
	13755	TÖNSEN	610725.9N 0162722.4E	591	1673	FLG W	Wind turbine
	13756	TÖNSEN	610712.7N 0162750.4E	591	1640	F R	Wind turbine
	13757	TÖNSEN	610659.6N 0162826.2E	591	1726	F R	Wind turbine
	13758	TÖNSEN	610647.8N 0162852.4E	591	1690	F R	Wind turbine
	13759	TÖNSEN	610709.3N 0162917.2E	591	1709	F R	Wind turbine
	13760	TÖNSEN	610649.2N 0162935.8E	591	1713	F R	Wind turbine
	13761	TÖNSEN	610636.0N 0163014.0E	591	1654	F R	Wind turbine
	13762	TÖNSEN	610655.1N 0163020.1E	591	1631	F R	Wind turbine
	13763	TÖNSEN	610646.9N 0163056.3E	591	1631	F R	Wind turbine
	13764	TÖNSEN	610629.1N 0163104.5E	591	1696	F R	Wind turbine
	13765	TÖNSEN	610627.1N 0163141.8E	591	1752	FLG W	Wind turbine
	13766	TÖNSEN	610628.8N 0162909.4E	591	1631	FLG W	Wind turbine
	13767	TÖNSEN	610605.0N 0163043.8E	591	1594	F R	Wind turbine
	13768	TÖNSEN	610559.1N 0163121.7E	591	1581	F R	Wind turbine
	13769	TÖNSEN	610542.2N 0163205.0E	591	1650	FLG W	Wind turbine
	13770	TÖNSEN	610610.8N 0163231.3E	591	1716	F R	Wind turbine
	13771	TÖNSEN	610554.7N 0163254.6E	591	1709	F R	Wind turbine
	13772	TÖNSEN	610614.9N 0163316.2E	591	1631	FLG W	Wind turbine
	13773	TÖNSEN	610600.5N 0163436.6E	591	1722	FLG W	Wind turbine
	13774	ÅMOT	610514.8N 0162333.8E	591	1696	FLG W	Wind turbine
	13775	ÅMOT	610511.8N 0162414.5E	591	1778	F R	Wind turbine
	13776	ÅMOT	610459.8N 0162452.0E	591	1706	F R	Wind turbine
	13777	ÅMOT	610454.3N 0162533.1E	591	1637	FLG W	Wind turbine
	13778	ÅMOT	610447.2N 0162729.8E	591	1634	FLG W	Wind turbine
	13779	ÅMOT	610429.3N 0162751.8E	591	1624	F R	Wind turbine
	13780	ÅMOT	610439.5N 0162650.0E	591	1614	F R	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	9145	STORSAND	614607.0N 0172000.1E	410	646	FLG R	Wind turbine
	9146	STORSAND	614609.0N 0172025.0E	410	607	FLG R	Wind turbine
62N 12E	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	11663	TROLLKÄRINGVALLEN	622241.5N 0125236.5E (*)	410	3117	FLG W	Wind turbine
	11664	TROLLKÄRINGVALLEN	622249.7N 0125259.1E (*)	410	3150	FLG W	Wind turbine
	11665	TROLLKÄRINGVALLEN	622305.1N 0125256.0E (*)	410	3071	FLG W	Wind turbine
	16188	BJÖRNSKALLEN	624848.2N 0124748.3E	341	3071	unknown	Wind turbine
62N 13E	1284	LÅNGÅKNÄTTEN	622601.9N 0131344.2E	338	2754	F R	Mast
	7609	LÅNGÅVALEN	622759.7N 0131711.8E (*)	397	3156	F R	Wind turbine
	7610	LÅNGÅVALEN	622810.8N 0131641.8E (*)	397	3182	F R	Wind turbine
	7611	LÅNGÅVALEN	622759.6N 0131646.2E (*)	397	3153	F R	Wind turbine
	7612	LÅNGÅVALEN	622818.6N 0131656.3E (*)	397	3189	F R	Wind turbine
	7613	LÅNGÅVALEN	622827.7N 0131647.4E (*)	397	3114	F R	Wind turbine
	9526	LÅNGÅVÅLEN	622749.5N 0131655.6E (*)	456	3199	F R	Wind turbine
	9527	LÅNGÅVÅLEN	622746.0N 0131719.1E (*)	456	3202	F R	Wind turbine
	11826	GLÖTESVÅLEN	620842.0N 0133242.8E	410	3543	FLG R	Wind turbine
	11827	GLÖTESVÅLEN	620852.8N 0133255.0E	410	3586	FLG R	Wind turbine
	11828	GLÖTESVÅLEN	620901.4N 0133310.7E	410	3560	FLG R	Wind turbine
	11829	GLÖTESVÅLEN	620911.0N 0133324.3E	410	3615	FLG R	Wind turbine
	11830	GLÖTESVÅLEN	620919.1N 0133341.4E	410	3602	FLG R	Wind turbine
	11831	GLÖTESVÅLEN	620925.7N 0133401.1E	410	3573	FLG R	Wind turbine
	11832	GLÖTESVÅLEN	620838.5N 0133308.6E	410	3560	FLG R	Wind turbine
	11833	GLÖTESVÅLEN	620847.8N 0133322.7E	410	3596	F R	Wind turbine
	11834	GLÖTESVÅLEN	620902.1N 0133347.9E	410	3625	F R	Wind turbine
	11835	GLÖTESVÅLEN	620913.6N 0133408.4E	410	3619	FLG R	Wind turbine
	11836	GLÖTESVÅLEN	620835.0N 0133338.0E	410	3632	FLG R	Wind turbine
	11837	GLÖTESVÅLEN	620849.1N 0133346.3E	410	3652	F R	Wind turbine
	11838	GLÖTESVÅLEN	620859.1N 0133414.2E	410	3632	F R	Wind turbine
	11839	GLÖTESVÅLEN	620906.2N 0133433.7E	410	3599	FLG R	Wind turbine
	11840	GLÖTESVÅLEN	620834.3N 0133403.8E	410	3711	F R	Wind turbine
	11841	GLÖTESVÅLEN	620845.6N 0133412.5E	410	3645	F R	Wind turbine
	11842	GLÖTESVÅLEN	620852.2N 0133440.9E	410	3589	F R	Wind turbine
	11843	GLÖTESVÅLEN	620857.4N 0133508.6E	410	3599	FLG R	Wind turbine
	11844	GLÖTESVÅLEN	620820.7N 0133412.7E	410	3704	FLG R	Wind turbine
	11845	GLÖTESVÅLEN	620828.6N 0133430.1E	410	3655	F R	Wind turbine
	11846	GLÖTESVÅLEN	620843.3N 0133504.9E	410	3553	F R	Wind turbine
	11847	GLÖTESVÅLEN	620845.8N 0133527.7E	410	3530	FLG R	Wind turbine
	11848	GLÖTESVÅLEN	620812.8N 0133436.9E	410	3648	FLG R	Wind turbine
	11849	GLÖTESVÅLEN	620826.5N 0133455.7E	410	3593	F R	Wind turbine
	11850	GLÖTESVÅLEN	620832.2N 0133523.3E	410	3527	FLG R	Wind turbine
	11851	GLÖTESVÅLEN	620812.1N 0133502.0E	410	3671	F R	Wind turbine
	11852	GLÖTESVÅLEN	620817.9N 0133524.2E	410	3606	FLG R	Wind turbine
	11853	GLÖTESVÅLEN	620757.8N 0133508.2E	410	3691	FLG R	Wind turbine
	11854	GLÖTESVÅLEN	620803.2N 0133528.0E	410	3668	FLG R	Wind turbine
	11855	GLÖTESVÅLEN	620800.7N 0133554.1E	410	3560	FLG R	Wind turbine
62N 14E	9593	RODOVÅLEN	622056.4N 0140618.5E	456	3081	F R	Wind turbine
	9594	RODOVÅLEN	622101.1N 0140640.2E	456	3079	F R	Wind turbine
	9595	RODOVÅLEN	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	RÄTAN	622716.6N 0143950.3E	587	2254	FLG W	Wind turbine
	11350	RÄTAN	622738.2N 0144001.6E	587	2267	FLG W	Wind turbine
	11351	RÄTAN	622721.6N 0144058.8E	587	2398	FLG W	Wind turbine
	11352	RÄTAN	622705.4N 0144159.7E	587	2484	FLG W	Wind turbine
	11353	RÄTAN	622726.0N 0144224.0E	587	2431	FLG W	Wind turbine
	11354	RÄTAN	622658.9N 0144238.1E	587	2520	FLG W	Wind turbine
	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	11011	STAMÅSEN	633930.7N 0155011.1E (*)	564	1939	F R	Wind turbine
	11012	STAMÅSEN	633917.3N 0155045.3E (*)	564	1949	F R	Wind turbine
	11013	STAMÅSEN	633929.3N 0155134.4E (*)	564	1883	FLG W	Wind turbine
	11014	STAMÅSEN	633917.1N 0155127.6E (*)	564	1913	F R	Wind turbine
	11015	STAMÅSEN	633900.3N 0155109.9E (*)	564	1978	F R	Wind turbine
	11016	STAMÅSEN	633848.4N 0155104.5E (*)	564	1982	FLG W	Wind turbine
	11017	STAMÅSEN	633835.0N 0155119.3E (*)	564	1913	F R	Wind turbine
	11569	BODMYREN	633125.3N 0155547.5E	367	1738	F R	Mast
	11717	STAMÅSEN	633837.4N 0155159.1E (*)	568	1939	F R/FLG W	Wind turbine
	11749	ÖGONFÄGNADEN	633146.8N 0155808.8E	564	1991	FLG W	Wind turbine
	11750	ÖGONFÄGNADEN	633134.2N 0155829.2E	564	2054	F R	Wind turbine
	11751	ÖGONFÄGNADEN	633117.3N 0155907.3E	564	2080	F R	Wind turbine
	11752	ÖGONFÄGNADEN	633058.2N 0155919.8E	564	2110	F R	Wind turbine
	11753	ÖGONFÄGNADEN	633050.2N 0155948.5E	564	2090	FLG W	Wind turbine
	11754	ÖGONFÄGNADEN	633119.3N 0155810.1E	564	2041	F R	Wind turbine
	11755	ÖGONFÄGNADEN	633047.8N 0155900.6E	564	2146	F R	Wind turbine
	11756	ÖGONFÄGNADEN	633037.9N 0155917.8E	564	2119	F R	Wind turbine
	11757	ÖGONFÄGNADEN	633151.9N 0155625.0E	564	1955	FLG W	Wind turbine
	11758	ÖGONFÄGNADEN	633123.8N 0155708.2E	564	2064	F R	Wind turbine
	11759	ÖGONFÄGNADEN	633057.0N 0155732.7E	564	2201	F R	Wind turbine
	11760	ÖGONFÄGNADEN	633122.2N 0155606.8E	564	2001	FLG W	Wind turbine
	11761	ÖGONFÄGNADEN	633114.3N 0155639.0E	564	2093	F R	Wind turbine
	11762	ÖGONFÄGNADEN	633058.0N 0155659.0E	564	2215	F R	Wind turbine
	11763	ÖGONFÄGNADEN	633045.2N 0155718.7E	564	2231	F R	Wind turbine
	11764	ÖGONFÄGNADEN	633101.9N 0155626.4E	564	2126	F R	Wind turbine
	11765	ÖGONFÄGNADEN	633046.5N 0155643.5E	564	2169	F R	Wind turbine
	11766	ÖGONFÄGNADEN	633029.2N 0155805.2E	564	2234	F R	Wind turbine
	11767	ÖGONFÄGNADEN	633033.7N 0155845.3E	564	2113	F R	Wind turbine
	11768	ÖGONFÄGNADEN	633030.0N 0155731.7E	564	2267	F R	Wind turbine
	11769	ÖGONFÄGNADEN	633030.2N 0155653.5E	564	2149	F R	Wind turbine
	11770	ÖGONFÄGNADEN	633012.1N 0155639.5E	564	2116	F R	Wind turbine
	11771	ÖGONFÄGNADEN	632958.9N 0155658.6E	564	2149	F R	Wind turbine
	11772	ÖGONFÄGNADEN	632959.4N 0155736.2E	564	2136	F R	Wind turbine
	11773	ÖGONFÄGNADEN	633001.3N 0155620.0E	564	2077	FLG W	Wind turbine
	11774	ÖGONFÄGNADEN	632944.7N 0155707.9E	564	2116	F R	Wind turbine
	11775	ÖGONFÄGNADEN	632935.6N 0155828.3E	564	2218	F R	Wind turbine
	11776	ÖGONFÄGNADEN	632932.6N 0155906.3E	564	2133	F R	Wind turbine
	11777	ÖGONFÄGNADEN	632927.6N 0155938.2E	564	2119	FLG W	Wind turbine
	11778	ÖGONFÄGNADEN	632929.5N 0155752.6E	564	2218	F R	Wind turbine
	11779	ÖGONFÄGNADEN	632923.7N 0155836.9E	564	2277	F R	Wind turbine
	11780	ÖGONFÄGNADEN	632913.1N 0155744.3E	564	2198	F R	Wind turbine
	11781	ÖGONFÄGNADEN	632901.5N 0155737.1E	564	2277	FLG W	Wind turbine
	12374	STAMÅSEN	633950.2N 0154739.2E (*)	394	1749	F R	Mast
	12902	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
	13662	HAMMERDAL	633217.6N 0150616.8E	591	2224	F R	Wind turbine
	13663	HAMMERDAL	633202.7N 0150457.7E	591	2228	F R	Wind turbine

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

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

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

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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	10265	BONDÖN	651229.2N 0214234.9E	443	463	FLG R	Wind turbine
	10266	BONDÖN	651312.8N 0214131.5E	443	463	FLG R	Wind turbine
	10267	BONDÖN	651320.3N 0214158.3E	443	466	FLG R	Wind turbine
	10268	BONDÖN	651225.5N 0214349.1E	443	466	FLG R	Wind turbine
	10269	BONDÖN	651240.2N 0214328.2E	443	466	FLG R	Wind turbine
	10270	BONDÖN	651254.6N 0214309.7E	443	472	FLG R	Wind turbine
	10271	BONDÖN	651243.8N 0214213.9E	443	459	FLG R	Wind turbine
	10272	BONDÖN	651259.1N 0214154.8E	443	469	FLG R	Wind turbine
	10273	BONDÖN	651222.3N 0214323.6E	443	472	FLG R	Wind turbine
	10274	BONDÖN	651241.1N 0214253.2E	443	469	FLG R	Wind turbine
	10275	BONDÖN	651300.4N 0214227.0E	443	482	FLG R	Wind turbine
	10276	BONDÖN	651309.0N 0214249.0E	443	469	FLG R	Wind turbine
	10277	BONDÖN	651323.3N 0214229.2E	443	456	FLG R	Wind turbine
	16344	BONDÖN	651305.4N 0214204.0E	397	433	unknown	Mast
65N 22E	573	LULEÅ/SINKSUNDSBERGET	653650.8N 0221208.2E	354	572	F R	Mast
65N 23E	576	HAPARANDA/LÅNGTRÄSK	655616.0N 0233058.2E	1066	1364	F R/FLG W	Mast
	8114	BÅTSKÄRSNÄS	654643.0N 0232329.4E	335	380	F R	Wind turbine
	9375	STORÖN	654235.6N 0230510.9E	328	364	F R	Wind turbine
	11161	SESKARÖ	654309.9N 0234229.8E	328	385	F R	Wind turbine
	11162	SESKARÖ	654308.0N 0234307.1E	328	374	F R	Wind turbine
	11163	SESKARÖ	654306.0N 0234345.1E	328	393	F R	Wind turbine
	11164	SESKARÖ	654254.2N 0234321.8E	328	371	F R	Wind turbine
	11165	SESKARÖ	654255.9N 0234249.2E	328	388	F R	Wind turbine
	16812	GALTVIKBERGET	654651.8N 0232309.5E	492	559	unknown	Wind turbine
	16813	GALTVIKBERGET	654659.0N 0232250.9E	492	522	unknown	Wind turbine
66N 19E	1010	LIGGA	664835.5N 0195434.2E	344	1136	F R	Mast
66N 20E	590	VUOLLERIM	662652.6N 0204235.2E	351	1340	F R	Mast
66N 21E	17496	MURJEK	662940.9N 0211830.1E	492	1598	F R	Mast
	17497	BLÅKÖLEN	662949.2N 0213648.5E	492	1558	F R	Mast
66N 22E	610	ÖVERKALIX	661804.3N 0225112.0E	1083	1414	F R/FLG W	Mast
	10160	STORMUGGBERGET	662043.5N 0221330.9E	331	1207	F R	Mast
	13234	LEHTIROVA	665852.3N 0220606.2E	604	1814	FLG W	Wind turbine
	13235	LEHTIROVA	665833.2N 0220531.8E	604	1716	FLG W	Wind turbine
	13236	LEHTIROVA	665834.3N 0220624.8E	604	1745	F R	Wind turbine
	13237	LEHTIROVA	665834.3N 0220854.3E	604	1732	FLG W	Wind turbine
	13238	LEHTIROVA	665820.3N 0220924.4E	604	1660	F R	Wind turbine
	13239	LEHTIROVA	665756.7N 0220931.2E	604	1654	FLG W	Wind turbine
	13240	LEHTIROVA	665758.7N 0220806.9E	604	1821	F R	Wind turbine
	13241	LEHTIROVA	665739.4N 0220822.5E	604	1726	F R	Wind turbine
	13242	LEHTIROVA	665725.9N 0220850.8E	604	1654	FLG W	Wind turbine
	14411	NIEMISEL	661945.8N 0220547.9E	417	1378	F R	Mast
	14412	NIEMISEL	661833.4N 0221205.2E	417	1263	F R	Mast
66N 23E	7583	ETU-AAPUA	665056.1N 0232704.5E	390	1526	F R	Wind turbine
	7584	ETU-AAPUA	665049.5N 0232720.1E	390	1542	F R	Wind turbine
	7585	ETU-AAPUA	665041.3N 0232722.3E	390	1512	F R	Wind turbine
	7586	ETU-AAPUA	665025.9N 0232739.4E	390	1604	F R	Wind turbine
	7587	ETU-AAPUA	665017.4N 0232740.9E	390	1612	F R	Wind turbine
	7588	ETU-AAPUA	664958.1N 0232740.8E	390	1670	F R	Wind turbine
	7589	ETU-AAPUA	664948.9N 0232748.1E	390	1683	F R	Wind turbine
	11889	KORPILOMBOLO	665315.1N 0231846.2E	587	1512	FLG W	Wind turbine
	11890	KORPILOMBOLO	665300.0N 0231914.5E	587	1490	F R	Wind turbine
	11891	KORPILOMBOLO	665247.8N 0231946.6E	587	1473	F R	Wind turbine
	11892	KORPILOMBOLO	665305.2N 0232032.3E	587	1555	F R	Wind turbine
	11893	KORPILOMBOLO	665247.2N 0232033.9E	587	1572	F R	Wind turbine
	11894	KORPILOMBOLO	665228.9N 0232030.7E	587	1516	F R	Wind turbine
	11895	KORPILOMBOLO	665215.5N 0232053.8E	587	1457	FLG W	Wind turbine
	11896	KORPILOMBOLO	665303.2N 0232116.3E	587	1581	FLG W	Wind turbine
	11897	KORPILOMBOLO	665245.8N 0232129.2E	587	1496	F R	Wind turbine
	11898	KORPILOMBOLO	665244.8N 0232309.0E	587	1506	FLG W	Wind turbine
	11899	KORPILOMBOLO	665226.9N 0232325.0E	587	1509	F R	Wind turbine
	11900	KORPILOMBOLO	665210.7N 0232340.6E	587	1436	FLG W	Wind turbine
	11901	KORPILOMBOLO	665132.9N 0231659.7E	587	1572	FLG W	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	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
67N 21E	10344	KUUSIVAARA	672859.7N 0215717.3E	328	1609	F R	Mast
	13202	LEHTIROVA	670957.1N 0215948.6E	604	1959	FLG W	Wind turbine
	16519	ROMUPUOLINEN	675334.2N 0210620.3E	341	1320	unknown	Mast
67N 22E	13203	LEHTIROVA	670945.1N 0220017.6E	604	1929	F R	Wind turbine
	13204	LEHTIROVA	670933.0N 0220045.6E	604	1916	F R	Wind turbine
	13205	LEHTIROVA	670917.1N 0220104.1E	604	1896	F R	Wind turbine
	13206	LEHTIROVA	670906.9N 0220137.8E	604	1860	FLG W	Wind turbine
	13207	LEHTIROVA	670955.8N 0220635.6E	604	1768	FLG W	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
67N 23E	628	PAJALA 2	671642.6N 0231355.7E	1099	1881	F R/FLG W	Mast
68N 22E	633	KARESUANDO	682416.5N 0222950.7E	358	1981	F R	Mast

ENROUTE CHART

ENR 6.1-1

AIP-SWEDEN

Northern part

CHANGE: ESMV, ESMV TMA new. ESR126, ESR127, ESR128 new.

LFV

AIRAC AMDT 1 / 2025 **20 MAR 2025**

LEGEND
See GEN 2.3

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

Scale 1:1375000

FINLAND
HELSINKI FIR
ESTONIA
TALLINN FIR
LATVIA
RIGA FIR
LITHUANIA
VILNIUS FIR
RUSSIA
KALININGRAD FIR
POLAND
WARSZAWA FIR
BELARUS
SWEDEN
SWEDEN FIR
NORWAY
POLARIS FIR
DENMARK
KOEBENHAVN FIR
GERMANY
BREMEN FIR

ENROUTE CHART

ENR 6.1-3

AIP-SWEDEN

Northern part

CHANGE: ESTRA75, ESTRA76 new. ESTRA72 withdrawn.
ESR1, ESR1A, ESR2, ESR2A, B, C, ESR5, ESR5A, B, ESR7, ESR8, ESR9.

LFV

AIRAC AMDT 1 / 2025 **20 MAR 2025**

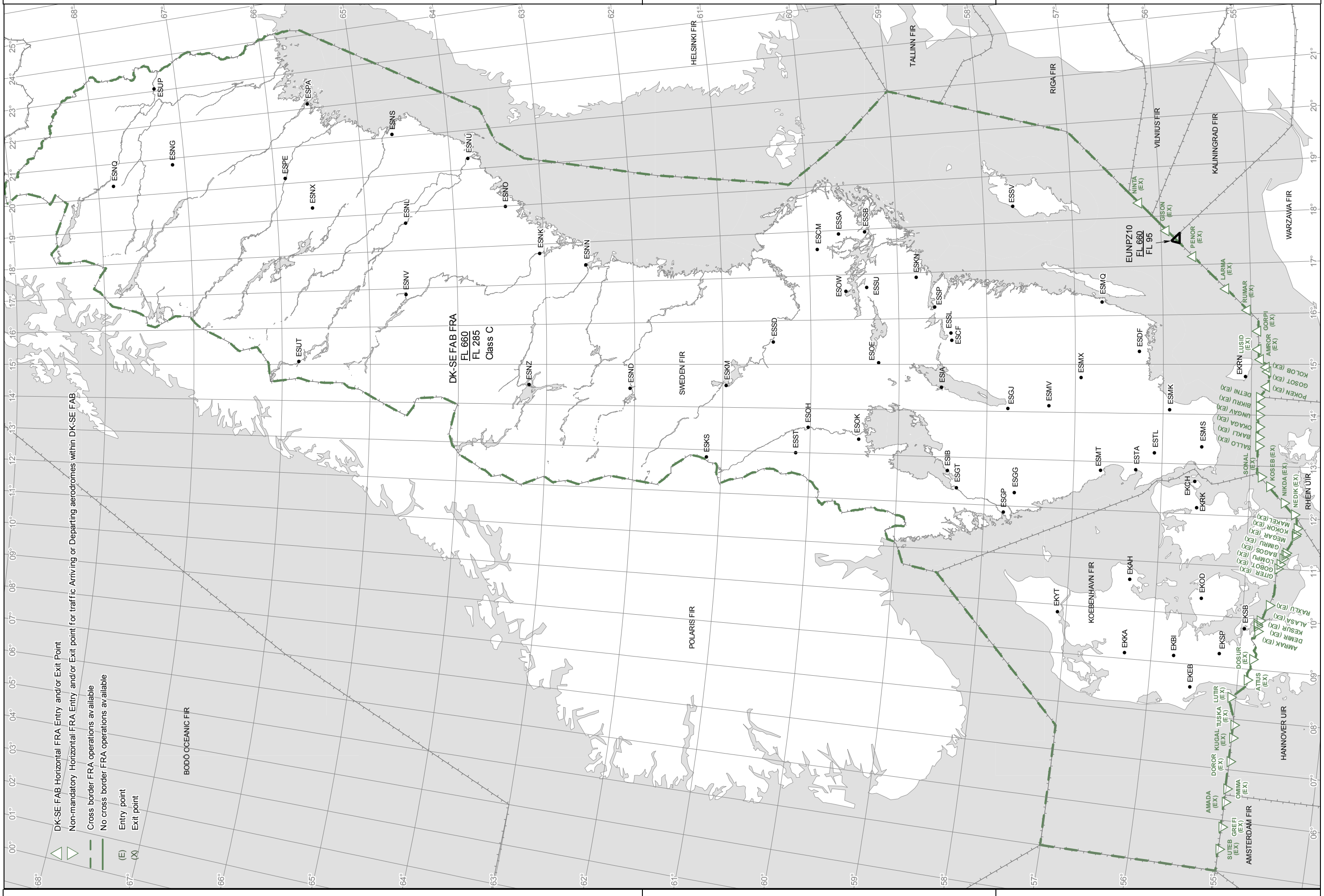
LEGEND
See GEN 2.3

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

Scale 1:1 375 000

6° - 14° E 2025

NORWAY
FINLAND
SWEDEN
POLARIS FIR
HELSINKI FIR
SWEDEN FIR
SUECIA CTA
BODO OCEANIC FIR


DK-SE FAB
DK-SE FAB FRA
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VILNIUS FIR
KALININGRAD FIR
WARZAWA FIR
SWEDEN FIR
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POKEN (EX)
DETNI (EX)
BIRGU (EX)
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BAKLI (EX)
SALLO (EX)
SONAL (EX)
KOSEB (EX)
NIKDA (EX)
NEDIK (EX)
MAKEL (EX)
MEGAR (EX)
KOKOR (EX)
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BAGOS (EX)
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GOBOT (EX)
GITRE (EX)
RAXLU (EX)
ALASA (EX)
RESUR (EX)
DEMIR (EX)
AMRAK (EX)
DOSUR (EX)
ATUS (EX)
LUTIR (EX)
TISKA (EX)
KUGAL (EX)
DOROR (EX)
OMIMA (EX)
GREFI (EX)
SUTEB (EX)
AMADA (EX)
DK-SE FAB Horizontal FRA Entry and/or Exit Point
Non-mandatory Horizontal FRA Entry and/or Exit point for traffic Arriving or Departing aerodromes within DK-SE FAB
Cross border FRA operations available
No cross border FRA operations available
Entry point
Exit point
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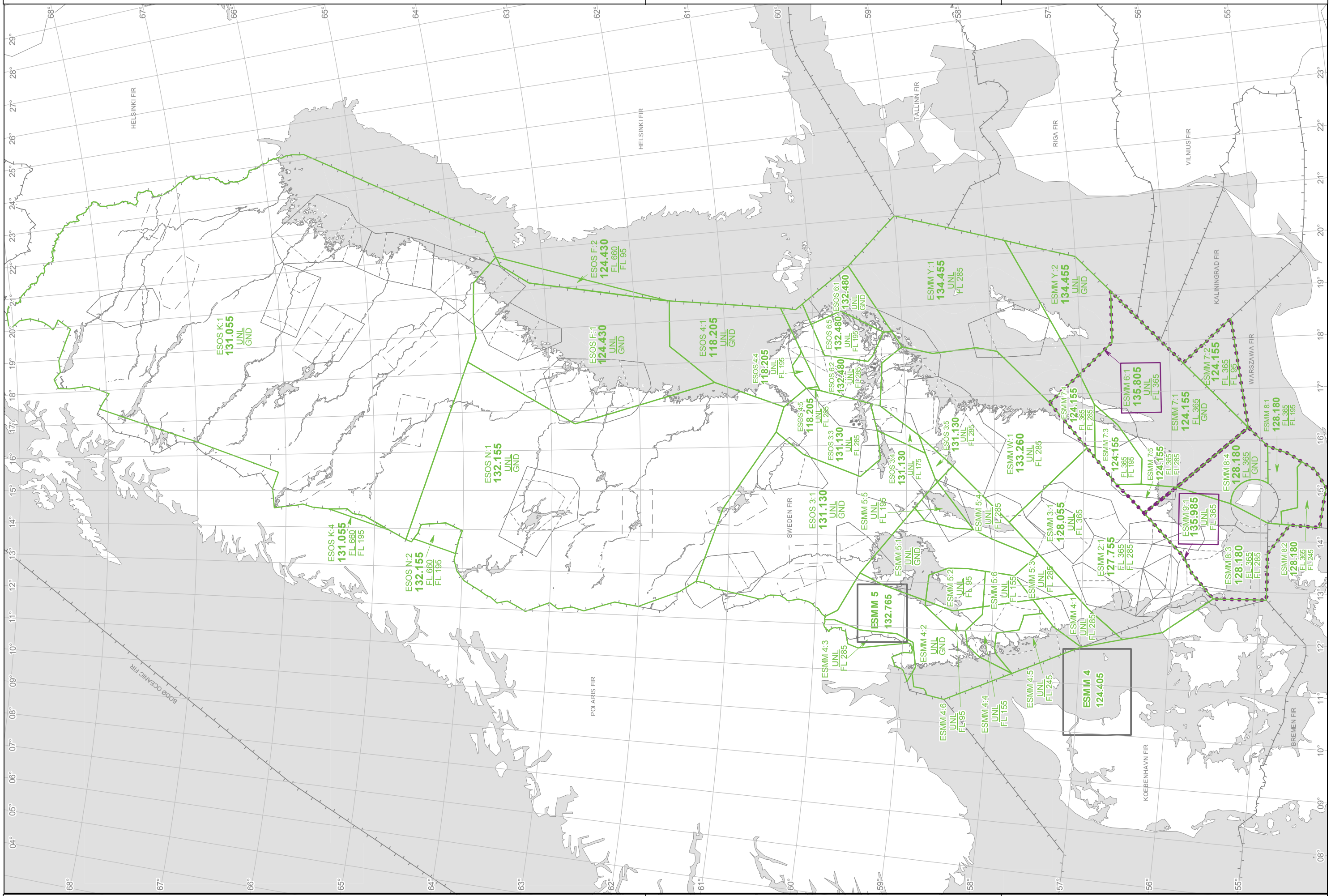
(X)


HELSINKI FIR
HELSINKI FIR
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KALININGRAD FIR
WARSZAWA FIR
SWEDEN FIR
POLARIS FIR
BODØ OCEANIC FIR
KOEBENHAVN FIR
BREMEN FIR
ESOS K:1 131.055 UNL GND
ESOS K:4 131.055 FL 660 FL 195
ESOS N:1 132.155 UNL GND
ESOS N:2 132.155 FL 660 FL 195
ESOS F:1 124.430 UNL GND
ESOS F:2 124.430 FL 660 FL 95
ESOS 4:1 118.205 UNL GND
ESOS 4:4 118.205 UNL FL 195
ESOS 4:5 118.205 UNL FL 285
ESOS 3:3 131.130 UNL FL 285
ESOS 3:4 131.130 UNL FL 175
ESOS 3:5 131.130 UNL FL 285
ESOS 3:1 131.130 UNL GND
ESOS 6:1 132.480 UNL GND
ESOS 6:5 132.480 UNL FL 195
ESOS 6:2 132.480 UNL FL 285
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ESMM Y:2 134.455 UNL GND
ESMM VV:1 133.260 UNL FL 285
ESMM 6:1 135.805 UNL FL 365
ESMM 7:1 124.155 FL 365 GND
ESMM 7:2 124.155 FL 365 FL 95
ESMM 7:4 124.155 FL 365 FL 285
ESMM 7:3 124.155 FL 365 FL 195
ESMM 7:5 124.155 FL 365 FL 285
ESMM 8:4 128.180 FL 365 GND
ESMM 8:1 128.180 FL 365 FL 195
ESMM 9:1 135.985 UNL FL 365
ESMM 3:1 128.055 UNL FL 365
ESMM 2:1 127.755 FL 365 FL 285
ESMM 8:3 128.180 FL 365 FL 285
ESMM 8:2 128.180 FL 365 FL 245
ESMM 5:1 UNL GND
ESMM 5:5 UNL FL 195
ESMM 5:4 UNL FL 285
ESMM 5:2 UNL FL 95
ESMM 5:6 UNL FL 155
ESMM 5:3 UNL FL 285
ESMM 5 132.765
ESMM 4:3 UNL FL 285
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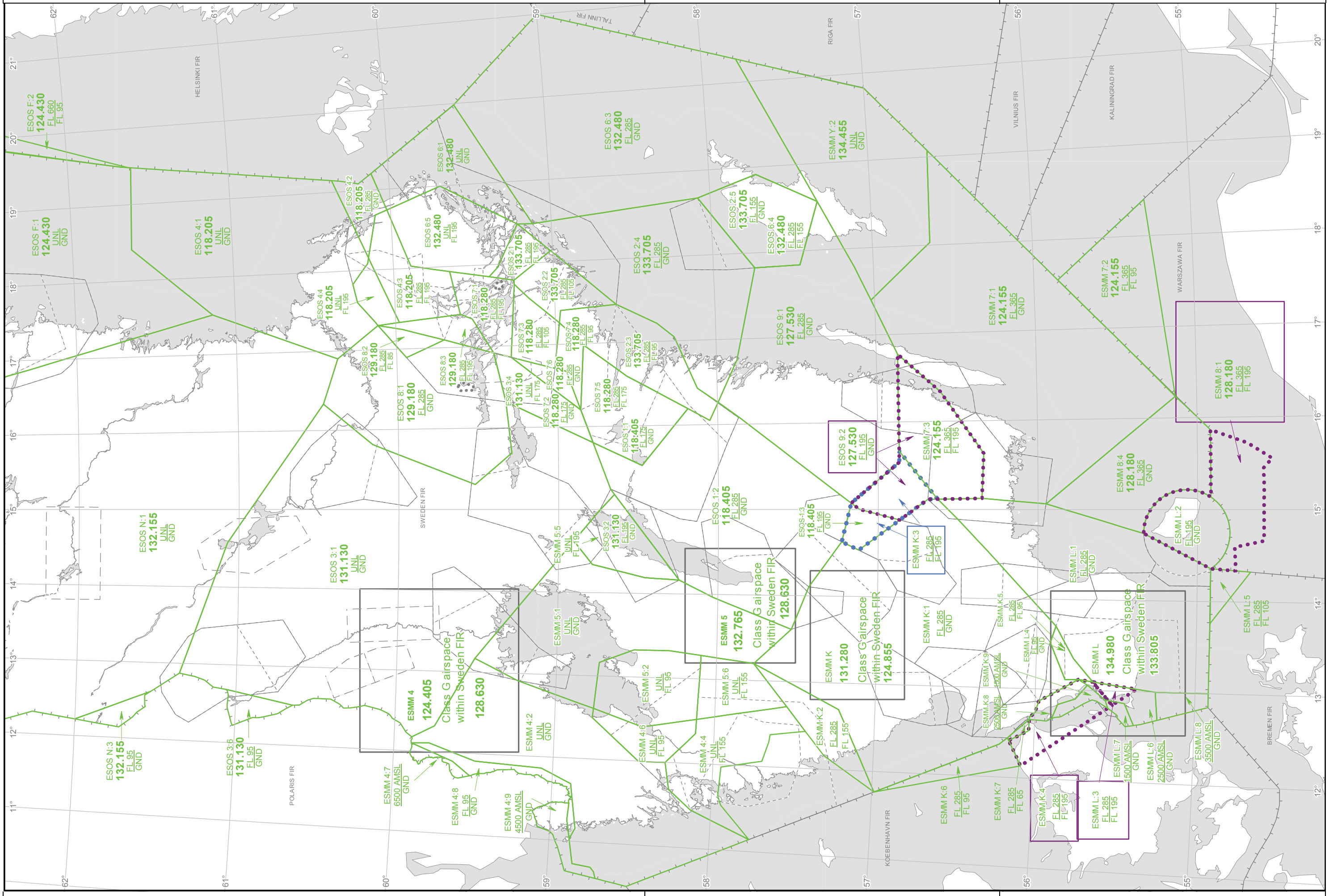
HELSINKI FIR
TALLINN FIR
RIGA FIR
VILNIUS FIR
KALININGRAD FIR
WARSZAWA FIR
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POLARIS FIR
BREMEN FIR
KOEBENHAVN FIR
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ESOS 4:4 UNL FL 155
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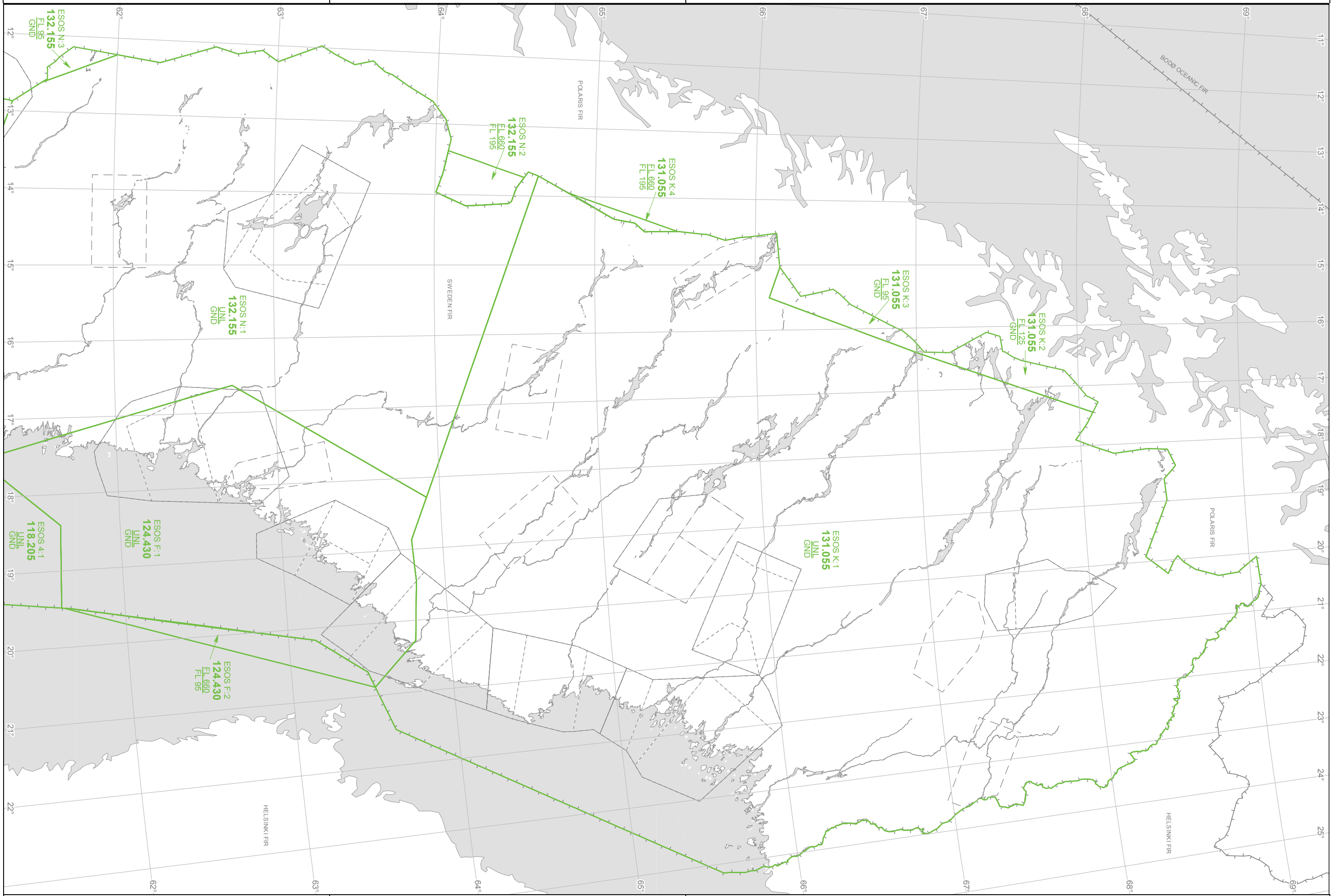
ESMM K 131.280 Class G airspace within Sweden FIR 124.855
ESMM L 134.980 Class G airspace within Sweden FIR 133.805
ESMM 4 124.405 Class G airspace within Sweden FIR 128.630
ESOS N:3 132.155 FL 95 GND
ESOS 3:6 131.130 FL 95 GND
ESMM 4:7 6500 AMSL GND
ESMM 4:8 FL 95 GND
ESMM 4:9 4500 AMSL GND
ESMM 4:2 UNL GND


ESOS N:3
132.155
FL 95
GND
ESOS N:2
132.155
FL 660
FL 195
ESOS K:4
131.055
FL 660
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ESOS K:3
131.055
FL 95
GND
ESOS K:2
131.055
FL 125
GND
ESOS N:1
132.155
UNL
GND
ESOS K:1
131.055
UNL
GND
ESOS 4:1
118.205
UNL
GND
ESOS F:1
124.430
UNL
GND
ESOS F:2
124.430
FL 660
FL 95
POLARIS FIR
SWEDEN FIR
BODØ OCEANIC FIR
HELSINKI FIR
POLARIS FIR
HELSINKI FIR

Följande flygplatser ingår i sektion AD2./
The following aerodromes are included in the AD 2 section

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

HELIPORT Location Indicator Coordinates (ARP) Elevation (ft)	Dimensions (m)	Surface Bearing strength (Tonnes) Types E=Elevated H=Helideck S=Surface-level W=Water	Light	ATS Fuel	COM FREQ (MHz)	Category Owner/Operator TEL Fax Regulations and restrictions Remarks
SKÖVDE/Kärnsjukhuset ESHO 582531N 0135053E 490 ft	TLOF Ø 24 FATO Ø 24	ASPH - S ASPH - S	Yes	Jet A1	-	Non-licensed helicopter AD County council +46 (0)500 43 10 00 **PPR** 15 min PN SOS Rescue Coordination Centre +46 (0)31 703 15 80 Ambulance and rescue flights only. Regulations see Heliport chart, www.vgregion.se/heliport
STOCKHOLM/Danderyds sjukhus ESHD 592329N 0180148E 5 ft	TLOF Ø 20 FATO 19x19	ASPH (6) S CONC (6) W	Yes	-	-	Licensed helicopter AD County council +46 (0)8 123 550 00 **PPR** 15 min PN SOS Rescue Coordination Centre +46 (0)8 454 26 22 or via RAKEL. Ambulance and rescue flights only. Restrictions applies for helicopters, see webpage www.ds.se/heliport
STOCKHOLM/Gamla Stan ESHG 591922N 0180358E 3 ft	TLOF 15x8 FATO 15x8	CONC - - CONC - -	No	-	-	Non-licensed helicopter AD Private Operator: Arlanda Helicopter AB +46 (0)8 88 00 80 **PPR**
STOCKHOLM/Gärdet ESHT 592026N 0180613E 38 ft	TLOF 9x9 FATO 70x40	CONC - - Grass - -	No	-	-	MIL Helicopter AD Military +46 (0)13 28 32 50 Duty officer Hkpflj TOC-hkpflj@mil.se **PPR** MIL flights only. Before landing dutyofficer must be contacted for info about drones in the area. Requests for flights with drones must be made to Hkpflj no later than 72 hours before the desired flights.
STOCKHOLM/Huddinge sjukhus ESHL 591311N 0175603E 264 ft	TLOF Ø 29.3 FATO Ø 29.3	CONC (12) E CONC (12) E	Yes	-	-	Licensed helicopter AD County council +46 (0)8 123 172 30 +46 (0)72 546 05 38 **PPR** 10 min PN SOS Rescue Coordination Centre +46 (0)8 454 26 22 or via RAKEL. Ambulance and rescue flights only. www.locum.se/verktygen/flygsakerhet/
STOCKHOLM/Karolinska Universitetssjukhuset Solna ESHK 592057N 0180155E 250 ft	Twin North TLOF 19.6x19.6 FATO 19.6x19.6 Twin South TLOF 19.6x19.6 FATO 19.6x19.6	 CONC (11) E CONC (11) E CONC (7) E CONC (7) E	Yes Yes	- -	- -	Licensed helicopter AD County council +46 (0)8 123 172 30 +46(0)72 546 05 38 **PPR** 10 min PN SOS Rescue Coordination Centre +46 (0)8 454 26 22 or via RAKEL. Ambulance and rescue flights only. www.locum.se/verktygen/flygsakerhet/ Single FATO permanently closed see webpage. Twin FATO Max rotor diameter 16.3 m. Sector NE 033°-213° obstacle clearance 4.5% Sector SW 233°-053° obstacle clearance 4.5% Restrictions applies for helicopters over 6 tonnes, see webpage.

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/Södersjukhuset ESHC 591830N 0180317E 136 ft	TLOF Ø 28.1 FATO Ø 28.1	CONC (10) S CONC (10) S	Yes	-	-	Licensed helicopter AD County council +46 (0)8 123 610 00 **PPR** 10 min PN SOS Rescue Coordination Centre +46 (0)8 454 26 22 or via RAKEL. Ambulance and rescue flights only. www.sodersjukhuset.se/heliport
SUNDSVALL/Länssjukhuset ESED 622429N 0171808E 312 ft	TLOF 17.2x16.2 FATO 17.2x16.2	ASPH - - ASPH - -	Yes	-	-	Licensed helicopter AD County council +46 (0) 611 80 000 **PPR** 60 min PN Länssjukhuset Sundsvall +46 (0)60 18 10 00 (exch) Ambulance and rescue flights only. www.rvn.se/heliport
TORSBY/Torsby sjukhus ESET 600812N 0125951E (*) 335 ft	TLOF Ø 24 FATO Ø 24	CONC/ASPH - S CONC/ASPH - S	Yes	-	-	Non-licensed helicopter AD County council +46 (0)560 712 04 **PPR** 60 min PN Unmanned SOS Rescue Coordination Centre +46 (0)54 83 34 50 Ambulance and rescue flights only. Regulations see Heliport chart, www.liv.se/heliport
TROLLHÄTTAN/NÄL sjukhus ESEN 581909N 0121605E 312 ft	TLOF Ø 24 FATO Ø 24	ASPH - S ASPH - S	Yes	Jet A1	-	Licensed helicopter AD County council +46 (0)521 910 00 **PPR** 15 min PN SOS Rescue Coordination Centre +46 (0)31 703 15 80 Ambulance and rescue flights only. Regulations see Heliport chart, www.vgregion.se/heliport
UMEÅ/Universitetssjukhuset ESHZ 634902N 0201754E (*) 233 ft	TLOF Ø 23 FATO Ø 23	METAL (12) E METAL (12) E	Yes	-	-	Licensed helicopter AD County council +46 (0)90 785 00 00 **PPR** 15 min PN SOS Rescue Coordination Centre Ambulance and rescue flights only. Regulations see Heliport chart, www.vll.se/heliport
UPPSALA/Akademiska sjukhuset ESHU 595050N 0173825E (*) 172 ft	TLOF Ø 27.9 FATO Ø 27.9	CONC (11) E CONC (11) E	Yes	-	-	Licensed helicopter AD County council +46 (0)18 611 00 00 Ambulance and rescue flights only. 30 min PN before ARR TEL +46 (0)10 603 88 31 Regulations see Heliport chart, https://regionuppsala.se/helikopterflygplats
VISBY/Sjukhuset ESEV 573900N 0181803E (*) 26 ft	TLOF Ø 28.1 FATO Ø 28.1	CONC/ASPH - - CONC/ASPH - -	Yes	-	-	Licensed helicopter AD Municipal +46 (0)498 20 35 55 **PPR** 30 min PN Ambulance and SAR OPS: SOS 112. Ambulance and rescue flights only. www.gotland.se/heliport

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
VÄSTERÅS/Västmanlands sjukhus ESEW 593657N 0163455E 92 ft	TLOF Ø 20 FATO Ø 20	ASPH - S ASPH - S	Yes	-	-	Non-licensed Helicopter AD County council +46 (0)21 17 30 00 **PPR** 30 min PN Rescue Coordination Centre Sjukvårdens Larmcentral +46 (0)21 30 01 63 Ambulance and rescue flights only. Regulations see Heliport chart, regionvastmanland.se/helikopter
ÅKERSBERGA ESHR 592908N 0181618E (*) 5 ft	TLOF 10x10 FATO 25x25	CONC - - Grass - -	Yes	-	123.475	Non-licensed helicopter AD Private Operator: Arlanda Helicopter AB +46 (0)70 689 21 42 **PPR**
ÖREBRO/Universitetssjukhuset ESHQ 591629N 0151344E 165 ft	TLOF Ø 28.1 FATO Ø 28.1	CONC (10) E CONC (10) E	Yes	-	-	Licensed helicopter AD County council +46 (0)19 602 22 22 **PPR** 30 min PN +46 (0)19 602 22 22 Ambulance and rescue flights only. www.regionorebrolan.se/hkp Max rotor diameter 15.6 m.

12 Förteckning över flygplatser

12 Aerodrome directory

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
ALINGSÅS ESGI 575659N 0123441E (*) 1.8 NM NE 226 ft	01/19	600x30	Grass	No	100LL	123.650	Non-licensed AD Alingsås flygklubb +46 (0)322 148 87 +46 (0)322 63 31 98
ANDERSTORP ESMP 571554N 0133606E 1 NM SW 507 ft	04/22	1000x20 TLOF 16x16 FATO 16x16	ASPH	No	-	123.200	Non-licensed AD SRW Anderstorp AB +46 (0)371 56 41 00 +46 (0)706 49 85 06 www.srwanderstorp.se airport@srwanderstorp.se **PPR** mandatory for RWY and heliport. Heliport located SE THR RWY 04. PSN: 571537N0133542E Heliport only avbl for ambulance and rescue flights.
ARBOGA ESQO 592318N 0155515E (*) 2 NM SE 33 ft	15/33	1700x40	ASPH	No	-	123.150	Non-licensed AD SAAB +46 (0)589 818 44 **PPR** Only traffic with special agreement allowed. **PPR** only in case of exception. THR 33 displaced 300 m. Limited fire fighting, rescue and handling service O/R. Glider flying
ARBRÅ ESUB 613045N 0162221E (*) 1.5 NM N 378 ft	18/36	700x30	Grass	No	91/96	123.200	Non-licensed AD Arbrå flygklubb +46 (0)278 454 54 +46 (0)705 84 07 00
ARVIDSJAUR ESNX Details, see AD 2	12/30	2500x45	ASPH	Yes	TWR/AFIS	Yes	Licensed, instrument AD Municipal
ARVIKA ESKV 594030N 0123822E NE 2 NM from Arvika 237 ft	01/19	1150x30	ASPH	Yes	91UL	123.350	Non-licensed AD Arvika flygklubb +46 (0)734 64 34 06 More than three TGL only permitted weekdays 0700-1600 (0600-1500). THR 19 displaced 200 m. PCL on freq 123.350 MHz for 15 sec duration followed by a double click. After departure RWY 19, climb straight ahead and no left turn until after passing S of highway 61. Other activities including motor vehicles may occur on RWY, TWY and APN. Wildlife common in aerodrome area. Sporadic snow clearance. Credit cards accepted for payment of fuel. info@arvikaflygklubb.se www.arvikaflygklubb.se

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
AVESTA ESVA 601049N 0160722E (*) 2.6 NM NNW 320 ft	15/33	850x40	Grass	No	91/96	123.550	Non-licensed AD Avesta flygklubb +46 (0)70 219 40 24 +46 (0)70 557 10 05 THR 15 displaced 50 m Glider flying
BORGLANDA ESMB 565147N 0163922E (*) 0.7 NM SW Borgholm 118 ft	03/21	625x50	Grass	No	-	123.550	Non-licensed AD Municipal +46 (0)485 104 00 (AD) +46 (0)706 62 07 95 **PPR** OCT-APR Right hand traffic circuit to RWY 03.
BORLÄNGE ESSD Details, see AD 2	14/32 12/30	2313x45 720x40	ASPH Grass	Yes No	TWR	Yes	Licensed, instrument AD Municipal
BORÅS ESGE 574145N 0125042E (*) 3.5 NM SW 588 ft	04L/22R 04R/22L	800x18 800x50	ASPH Grass	Yes No	100LL 91/96UL Jet A1 100LL 91/96UL Jet A1	123.525	Licensed AD Municipal OPR Borås flygplatsförening +46 (0)33 25 43 58 www.borasflygplats.se **PPR** during 15 NOV-15 APR Flying activity only permitted : MON-THU 0600-2100 (0500-2000) FRI 0600-1900 (0500-1800) SAT-SUN, HOL SEP-MAY 0700-1900 (0600-1800) SAT-SUN, HOL JUN-AUG 0700-1700 (0600-1600). Flying activity are not allowed Good Friday, Easter Eve, Whitsun Eve, Whitsunday, Midsummer Eve, first connected SAT-SUN in JUL, Christmas Eve, Christmas Day and Day after Christmas Day. Landing with gliders excepted from hours and days above. TGL not allowed for visiting ACFT and HEL. Grass surface soft at precipitation. For gliders right hand traffic circuit to RWY 04R. PCL on freq 123.525 MHz, 10 sec duration. After take-off RWY 22R/L turn left immediately.
BRATTFORSHEDEN ESSM 593630N 0135444E (*) 588 ft	08/26	800x50	Grass	Yes	100LL O/R	-	Non-licensed AD Brattforshedens flygklubb +46 (0)553 210 71 APR-OCT extensive winchlaunching of gliders.
BUNGE ESVB 575100N 0190218E (*) 0.5 NM SE 66 ft	09/27 16/34	675x30 675x30	ASPH ASPH	No No	-	123.400	Non-licensed AD Private +46 (0)704 96 86 41 **PPR**

AERODROME Location Indicator Coordinates (ARP) Location Elevation (ft)	RWY	Dimensions (m)	Surface	Light	ATS Fuel	COM FREQ (MHz)	Category Owner/Operator TEL Fax Regulations and restrictions Remarks
GNESTA/Vängsö ESSZ 590604N 0171240E (*) 4.5 NM NW Gnesta 56 ft	03/21 15/33	770x30 700x30	Grass Grass	No Yes	91/96	123.375	Non-licensed AD Östra Sörmlands flygklubb **PPR** 2100-0500 (2000-0400), info@osfk.se THR 03 displaced 170 m. THR 33 displaced 85 m. TGL prohibited 2000-0600 (1900-0500). After TKOF RWY 15/33, climb on RWY HDG to MNM 1500ft AMSL. Use RWY 03/21 only in strong wind. Avoid overflying of built-up areas. PCL RWY 15/33 on 123.375 MHz, 10 sec duration. Caution, glider flying close to airport
GRYTTJOM ESKG 601710N 0172546E (*) 4.5 NM SW Tierp 105 ft	17/35	809x27	Grass	No	-	123.400	Non-licensed AD Stockholms fallskärmsklubb +46 (0)293 502 51 +46 (0)705 76 84 71 **PPR** MAY-OCT Right hand traffic circuit to RWY 35. MAY-OCT intensive parachute jumping. Rough RWY surface
GÄLLIVARE ESNG Details, see AD 2	12/30	1714x45	ASPH	Yes	AFIS	Yes	Licensed, instrument AD Municipal
GÄVLE ESSK 603536N 0165705E SW 8 NM from Gävle 224 ft	18/36	2000x45	ASPH	Yes	-	123.600	Non-licensed AD Municipal +46 (0)26 17 82 60 **PPR** H24 RWY18/36 Grass RWY not affected. For permission TEL +46(0)26 420 67 84. After TKOF RWY 18/36, including grass RWY, light ACFT (<2000 kg) shall climb straight ahead to MNM 500 ft GND before initiating turn. Light ACFT (<2000 kg) shall avoid overflying village of Rörberg east of aerodrome below 1200 ft AMSL. For gliders using grass RWY 36 right hand circuit applies. Other activities may occur on RWY, TWY and APN. PCL on freq 123.600 MHz, 10 sec duration.
GÖTEBORG/Landvetter ESGG Details, see AD 2	03/21	3299x45	ASPH	Yes	TWR	Yes	Licensed, instrument AD Swedavia AB
GÖTEBORG/Säve ESGP Details, see AD 2	01/19	1085x45	ASPH	Yes	TWR	Yes	Licensed AD Private
GÖTENE/Brännebrona ESGN 583443N 0133638E (*) 4.3 NM NE Götene 259 ft	12/30	600x40	Grass	No	91/96	123.400	Non-licensed AD Brännebrona flygklubb +46 (0)511 532 84 +46 (0)707 98 19 94

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
HAGFORS ESOH Details, see AD 2	18/36	1508x30	ASPH	Yes	AFIS	Yes	Licensed, instrument AD Municipal
HAGSHULT ESMV Details, see AD 2	04/22	2020x40	ASPH	Yes	TWR	Yes	MIL, non-licensed AD FM/Swedish Armed Forces
HALLVIKEN ESNA 634418N 0152732E (*) 8 NM SSW Strömsund 1119 ft	14/32	800x15	ASPH	No	-	123.550	Non-licensed AD Strömsunds flygklubb +46 (0)70 666 44 19 +46 (0)70 646 64 19 **PPR** THR 14 displaced 200 m.
HALMSTAD ESMT Details, see AD 2	01/19 06/24	2268x45 609x30	ASPH Grass	Yes No	TWR	Yes	Licensed, instrument AD Municipal
HEDE/Hedlanda ESNC 622432N 0134450E (*) 6 NM E 1460 ft	06/24	1175x33	ASPH	No	100LL	123.150	Non-licensed AD Hedlanda Flygförening +46 (0)684 120 92 (AD) +46 (0)684 66 85 90
HEMAVAN TÄRNABY ESUT Details, see AD 2	15/33	1445x30	ASPH	Yes	AFIS	Yes	Licensed, instrument AD Municipal
HERRLJUNGA ESGH 580146N 0130629E (*) 3.8 NM SE 480 ft	18/36	900x70	Grass	No	100LL	123.650	Non-licensed AD Herrljunga flygklubb +46 (0)513 230 29 +46 (0)513 502 19 THR 18 displaced 75 m. THR 36 displaced 135 m.
HUDIKSVALL ESNH 614606N 0170450E (*) 2.7 NM NNW 95 ft	12/30	1320x30	ASPH	No	Jet A1 O/R	-	Non-licensed AD Airlift Helicopter Sweden AB +46 (0)650 165 00 +46 (0)703 92 40 48 **PPR** THR 12 displaced 89 m. THR 30 displaced 180 m. Motor activities on RWY may occur.
HULTSFRED-VIMMERBY ESSF 573133N 0154924E NNW 2 NM Hultsfred 365 ft	12/30	1945x40	CONC	Yes	100LL O/R Jet A1 O/R	123.550	Non-licensed AD Private +46 (0)495 100 10 **PPR** PCL by 5 pulses of aprx 1 sec duration on freq 123.550 MHz.
HÄLLEFORS ESVH 595203N 0142525E (*) 6 NM NW 600 ft	18/36	720x15	Gravel	No	100LL	123.150	Non-licensed AD Hällefors flygklubb +46 (0)591 170 82 (AD) +46 (0)591 121 90 THR 18 displaced 130 m. THR 36 displaced 180 m. Right hand traffic circuit to RWY 36.

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
SÄFFLE ESGY 590528N 0125730E (*) 2.7 NM S 151 ft	01/19	690x50	Grass	No	91/96	123.600	Licensed AD Säffle flygklubb +46 (0)533 180 29 +46 (0)533 162 96 +46 (0)705 09 04 92
SÄLEN/Scandinavian Mountains ESKS Details, see AD 2	15/33	2500x45	ASPH	Yes	TWR	Yes	Licensed instrument AD Private
SÖDERHAMN ESNY 611541N 0170554E 2.8 NM SE Söderhamn 88 ft	12/30	2524x40	ASPH	No	100LL Jet A1	123.525	Non-licenced AD Municipal +46 (0)270 75 000 (exch) +46 (0)270 75 134 (AD) **PPR** 24 HR Swedish MIL ACFT and all ACFT operating for Hosp, Police, Sea Rescue, Coast Guard and MSB duty exempted from **PPR**. Fuel +46 (0)70 632 54 54 Right hand traffic circuit RWY 12.
TIDAHOLM/Bämmelshed ESGD 581131N 0135944E (*) 456 ft	04/22	675x50	Grass	No	91/96	123.650	Non-licensed AD Tidaholms flygklubb +46 (0)502 330 84 +46 (0)708 33 08 41 **PPR** Right hand traffic circuit to RWY 22. Downdraft may occur when easterly winds. THR 04 displaced 15 m.
TIERP ESKT 602042N 0172519E (*) 2.7 NM W Tierp 129 ft	16/34	850x35	ASPH	No	91/96	123.400	Non-licensed AD Tierp ARENA AB Norra Upplands flygklubb +46 (0)76 78 60 088 AD manager +46 (0)73 65 22 211 THR 34 displaced 100 m. Right hand traffic circuit to RWY 34.
TORSBY ESST Details, see AD 2	16/34	1590x30	ASPH	Yes	AFIS	Yes	Licensed, instrument AD Municipal
TROLLHÄTTAN-VÄNERSBORG ESGT Details, see AD 2	15/33	1710x30	ASPH	Yes	TWR	Yes	Licensed, instrument AD Municipal
UDDEVALLA/Backamo ESGA 581038N 0115825E (*) 10.4 NM S Uddevalla 424 ft	06/24	760x30	Grass	No	91/96 100LL	123.550	Non-licensed AD Municipal +46 (0)522 233 65 +46 (0)705 52 33 65 +46 (0)522 69 60 00 **PPR**
UDDEVALLA/Rörkärr ESGU 582204N 0114631E (*) 5.0 NM NW 120 ft	03/21	655x30	Grass	No	91/96	123.550	Non-licensed AD Private +46 (0)70 277 42 65 +46 (0)70 757 72 62 +46 (0)73 244 99 55 **PPR**

AERODROME Location Indicator Coordinates (ARP) Location Elevation (ft)	RWY	Dimensions (m)	Surface	Light	ATS Fuel	COM FREQ (MHz)	Category Owner/Operator TEL Fax Regulations and restrictions Remarks
UMEÅ ESNU Details, see AD 2	14/32	2302x45	ASPH	Yes	TWR	Yes	Licensed, instrument AD Swedavia AB
UPPSALA ESCM Details, see AD 2	08/26 03/21	1963x40 1906x40	ASPH ASPH	Yes Yes	TWR	Yes	MIL, non-licensed AD FM/Swedish Armed Forces
VARBERG ESGV 570729N 0121341E (*) 1.5 NM NW 3 ft	06/24 12/30	600x22 560x40	Grass Grass	No Yes	91/96 100LL	123.150	Licensed AD Municipal +46 (0)340 198 00 +46 (0)340 150 40 **PPR** 15 OCT-15 APR. Special permission required to use RWY 06/24. Helicopter traffic prohibited at AD. PCL on freq 123.150 MHz, 10 sec duration.
VELLINGE ESTT 552346N 0130131E (*) 12 ft	03/21	730x30	Grass	No	100LL 91/96	123.400	Non-licensed AD Söderslätts flygklubb +46 (0)708 56 78 09 +46 (0)709 54 76 32 +46 (0)709 97 02 35 +46 (0)768 70 30 32 Obstacle 1 NM NE AD Right hand traffic circuit to RWY 03.
VIDSEL ESPE Details, see AD 2	11/29	2230x35	ASPH	Yes	TWR	Yes	MIL, non-licensed AD FM/Swedish Armed Forces
VILHELMINA ESNV Details, see AD 2	10/28	1500x30	ASPH	Yes	AFIS	Yes	Licensed, instrument AD Municipal
VISBY ESSV Details, see AD 2	03/21 10/28	2000x45 1100x40	ASPH Grass	Yes No	TWR	Yes	Licensed, instrument AD Swedavia AB
VISINGSÖ ESSI 580555N 0142409E (*) 309 ft	15/33 01/19	800x25 600x25	Grass Grass	No No	-	123.500	Non-licensed AD Jönköpings flygklubb +46 (0)390 402 77 +46 (0)36 31 12 20
VÅRGÅRDA ESGO 580221N 0124709E (*) 0.8 NM NW 328 ft	04/22	890x30	ASPH	No	Jet A1 O/R	123.650	Non-licensed AD Vårgårda Flygplats AB +46 (0)0707 91 35 94 **PPR** THR 04 displaced 200 m. THR 22 displaced 40 m. Right hand circuit to RWY 22. MAR-OCT intensive parachute jumping. Motor activities on RWY may occur. After take-off RWY 04 turn left immediately, climb on track 015° to 1000 ft GND before commencing turn. After take-off RWY 22 turn left immediately, climb on track 210° to 1000 ft GND before commencing turn. Overflying Vårgårda village SE of AD shall be avoided below 2300 ft MSL.

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
VÄSTERVIK ESSW 574648N 0163125E (*) 4 NM NW 129 ft	15/33	1199x30	ASPH	Yes	100LL Jet A1	131.615	Non-licensed AD Municipal +46 (0)10 355 40 00 **PPR** +46 (0)703 98 27 30 THR 33 displaced 300 m. PCL on freq 131.615 MHz, 20 sec duration. www.essw.se
VÄSTERÅS/Johannisberg ESSX 593433N 0163011E (*) 2.5 NM SW 25 ft	05/23 16/34	850x23 730x50	ASPH Grass	Yes No	UL91	123.650	Non-licensed AD Municipal Right hand traffic circuit when RWY 05 or RWY 16 is in use. THR RWY 16 displaced 190 m. Take off and landing exercises not allowed: MON-FRI 1700-0800 (1600-0700) SAT-SUN 1500-0900 (1400-0800) HOL H24. ATZ established, ref ENR 2.2 **PPR** www.vasterasflygklubb.se/flygfaltet/
VÄXJÖ/Kronoberg ESMX Details, see AD 2	01/19	2106x45	ASPH	Yes	TWR	Yes	Licensed, instrument AD Municipal
ÅLLEBERG ESGC 580805N 0133609E (*) 3 NM SE Falköping 1099 ft	03/21	680x30	Grass	No	91/96 O/R	123.400	Non-licensed AD Svenska Segelflygförbundet +46 (0)515 371 51 +46 (0)515 371 63 **PPR** Gliders only, direction of traffic circuit depending on wind direction. Winch launching of gliders may occur. www.segelflyget.se
ÅNGE/Tälje ESUJ 623355N 0155005E (*) 427 ft	14/32	838x30	Grass	No	-	123.150	Non-licensed AD Ånge flygklubb +46 (0)701 77 40 86 +46 (0)706 01 23 11 THR 32 displaced 57 m.
ÅRE ÖSTERSUND ESNZ Details, see AD 2	12/30	2500x45	ASPH	Yes	TWR/APP	Yes	Licensed, instrument AD Swedavia AB
ÅSELE ESUS 640933N 0171628E (*) 2.2 NM W 1011 ft	12/30	1200x30	Grass	No	100LL	123.600	Non-licensed AD Municipal +46 (0)941 140 00 THR 12 and 30 displaced 100 m.
ÅVIKEN/Åviken Fly Camp ESNF 631246N 0184457E 5 NM S Örnsköldsvik 39 ft	01/19	600x30	Grass	No	-	123.400	Non-licensed AD Åviken Fly Camp High Coast AB +46 (0)704 69 68 07 **PPR**

AERODROME Location Indicator Coordinates (ARP) Location Elevation (ft)	RWY	Dimensions (m)	Surface	Light	ATS Fuel	COM FREQ (MHz)	Category Owner/Operator TEL Fax Regulations and restrictions Remarks
ÄLMHULT/Möckeln ESMU 563414N 0140959E (*) 2.5 NM NNE 480 ft	03/21	604x30	Grass	No	91/96 100LL	123.600	Non-licensed AD Älmhults flygklubb +46 (0)476 147 44 +46 (0)705 18 55 22 **PPR** Right hand traffic circuit to RWY 03.
ÄLVSBYN ESUV 653845N 0210341E (*) 1.1 NM SE 227 ft	04/22	730x30	Grass	No	100LL	123.350	Non-licensed AD Älvsbyn flygklubb +46 (0)929 558 10 +46 (0)929 558 16 THR 04 displaced 90 m. THR 22 displaced 80 m.
ÄNGELHOLM ESTA Details, see AD 2	14/32	1945x45	ASPH	Yes	TWR	Yes	Licensed, instrument AD Private
ÖLANDA ESMZ 571943N 0170301E (*) 5 NM N Böda 27 ft	15/33	600x23	ASPH	No	-	123.650	Non-licensed AD Ölanda flyg- och motorklubb +46 (0)70 697 87 26 +46 (0)73 351 80 10 **PPR** 1 oct - 30 apr
ÖREBRO ESOE Details, see AD 2	01/19	3270x45	ASPH	Yes	TWR	Yes	Licensed, instrument AD Municipal
ÖRESTEN ESGM 572643N 0123856E (*) 5.4 NM SW Kinna 378 ft	06/24	680x35	Grass	No	100LL O/R	123.200	Non-licensed AD Öresten flygklubb +46 (0)320 400 23 +46 (0)320 552 75 +46 (0)300 54 38 30
ÖRNSKÖLDSVIK ESNO Details, see AD 2	12/30	2016x45	ASPH	Yes	TWR	Yes	Licensed, instrument AD Municipal

1.3 Flygplatsöversikt / Index to aerodromes

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

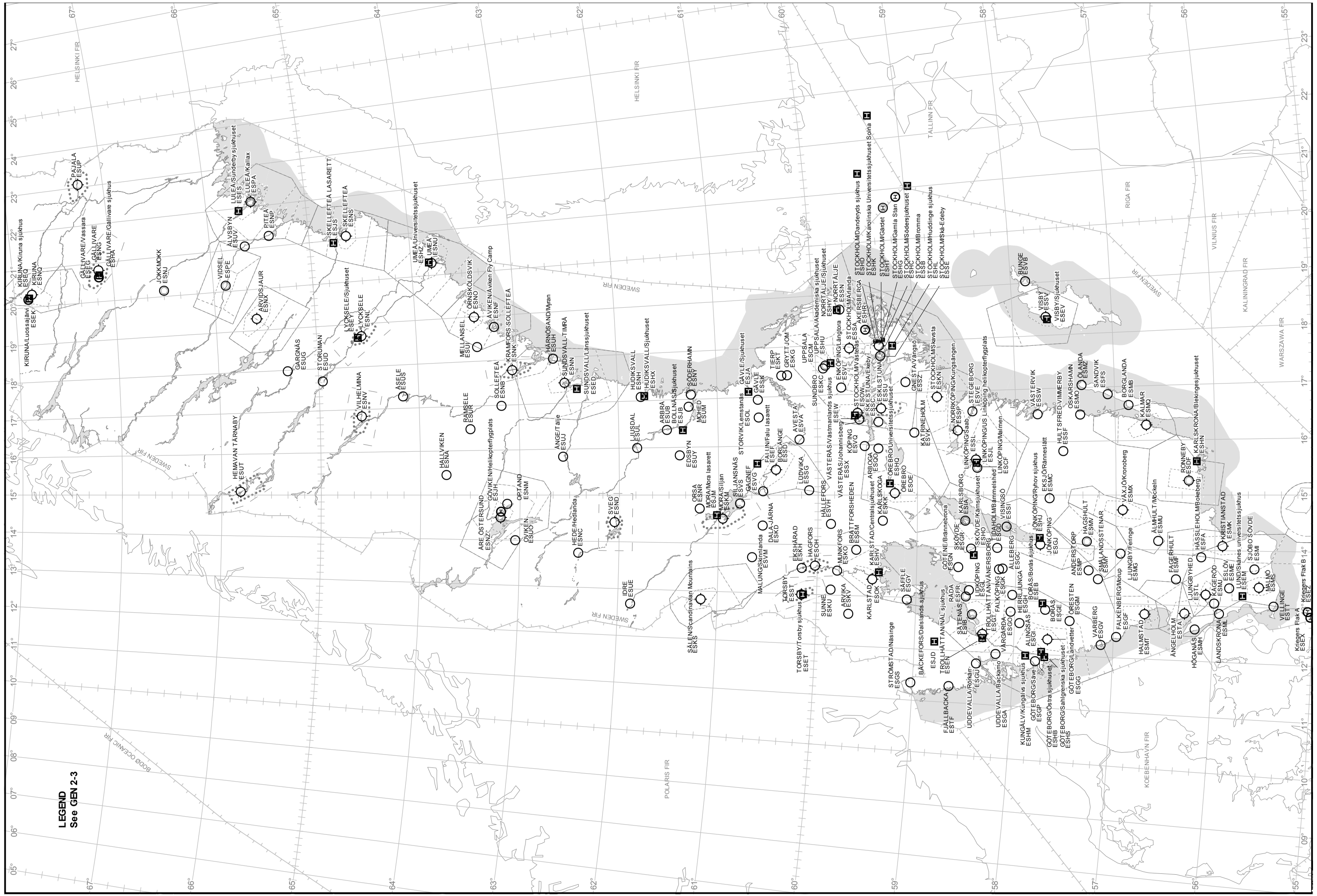
Aerodrome Location indicator		Type of traffic permitted to use the aerodrome			Reference to AD Section and remarks
		INTL–NTL	IFR–VFR	S = Scheduled NS = Non-scheduled P = Private	
1		2	3	4	5
GÄVLE	ESSK	NTL	VFR	NS, P	AD 1.1.12
GÄVLE/Sjukhuset	ESJA	NTL	VFR	NS	AD 1.1.11
GÖTEBORG/Landvetter	ESGG	INTL-NTL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

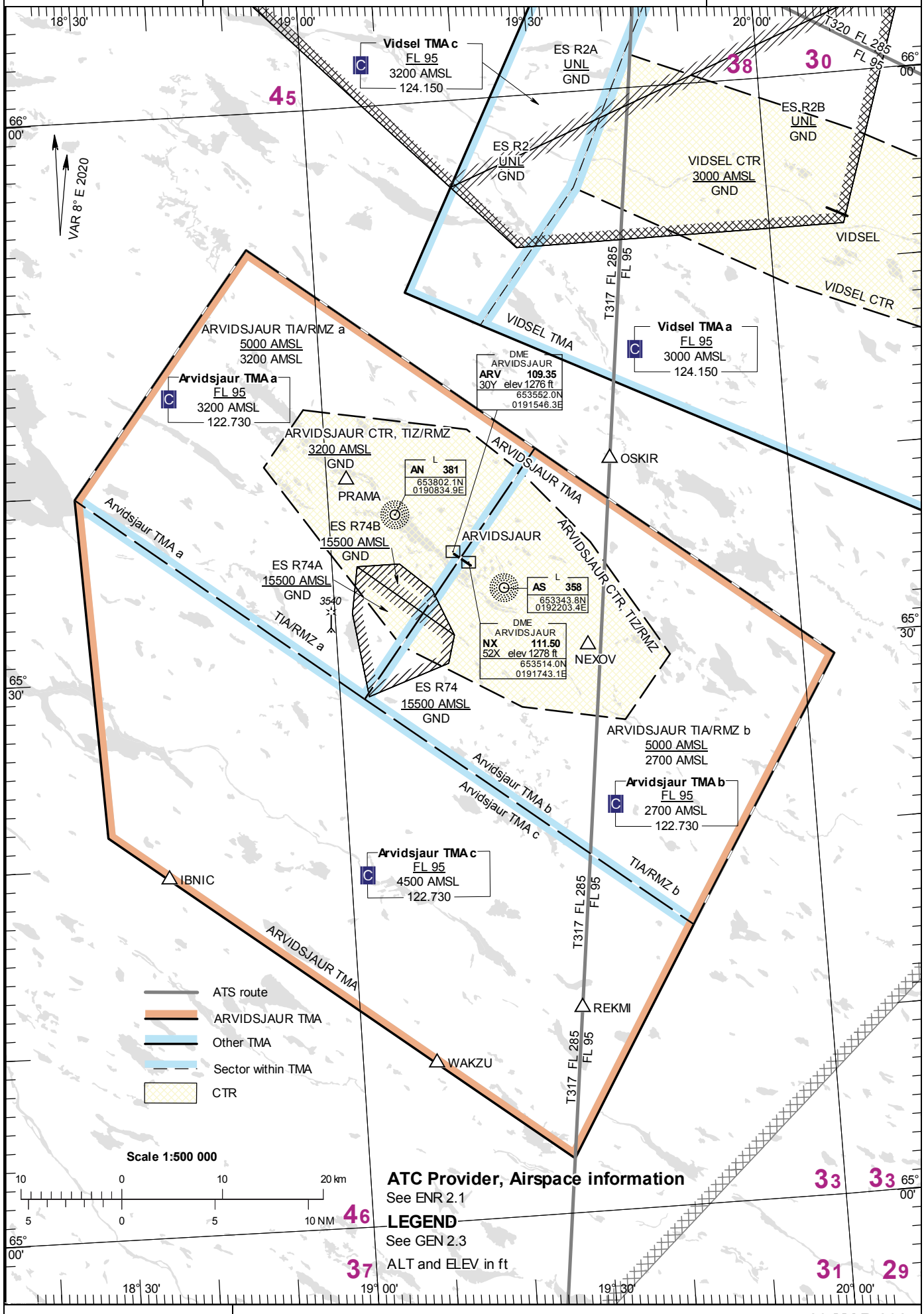
Aerodrome Location indicator		Type of traffic permitted to use the aerodrome			Reference to AD Section and remarks
		INTL–NTL	IFR–VFR	S = Scheduled NS = Non-scheduled P = Private	
1		2	3	4	5
KRAMFORS-SOLLEFTEÅ	ESNK	NTL	IFR-VFR	S, NS, P	AD 2
Kriegers Flak A	ESEX	NTL	VFR	P	AD 1.1.11
Kriegers Flak B	ESEZ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

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

Aerodrome Location indicator		Type of traffic permitted to use the aerodrome			Reference to AD Section and remarks
		INTL–NTL	IFR–VFR	S = Scheduled NS = Non-scheduled P = Private	
1		2	3	4	5
SÄFFLE	ESGY	NTL	VFR	P	AD 1.1.12
SÄLEN/Scandinavian Mountains	ESKS	INTL-NTL	IFR-VFR	S, NS, P	AD 2
SÖDERHAMN	ESNY	NTL	VFR	NS, P	AD 1.1.12
TIDAHOLM/Bämmelshed	ESGD	NTL	VFR	P	AD 1.1.12
TIERP	ESKT	NTL	VFR	P	AD 1.1.12
TORSBY	ESST	NTL	IFR-VFR	S, NS, P	AD 2
TORSBY/Torsby sjukhus	ESET	NTL	VFR	NS	AD 1.1.11
TROLLHÄTTAN/NÄL sjukhus	ESEN	NTL	VFR	NS	AD 1.1.11
TROLLHÄTTAN-VÄNERSBORG	ESGT	INTL-NTL	IFR-VFR	S, NS, P	AD 2
UDDEVALLA/Backamo	ESGA	NTL	VFR	P	AD 1.1.12
UDDEVALLA/Rörkärr	ESGU	NTL	VFR	P	AD 1.1.12
UMEÅ	ESNU	INTL-NTL	IFR-VFR	S, NS, P	AD 2
UMEÅ/Universitetssjukhuset	ESHZ	NTL	VFR	NS	AD 1.1.11
UPPSALA	ESCM	INTL-NTL	IFR-VFR	NS	AD 2
UPPSALA/Akademiska sjukhuset	ESHU	NTL	VFR	NS	AD 1.1.11
VARBERG	ESGV	NTL	VFR	P	AD 1.1.12
VELLINGE	ESTT	NTL	VFR	P	AD 1.1.12
VIDSEL	ESPE	NTL	VFR	NS, P	AD 2
VILHELMINA	ESNV	NTL	IFR-VFR	S, NS, P	AD 2
VISBY	ESSV	INTL-NTL	IFR-VFR	S, NS, P	AD 2
VISBY/Sjukhuset	ESEV	NTL	VFR	NS	AD 1.1.11
VISINGSÖ	ESSI	NTL	VFR	P	AD 1.1.12
VÅRGÅRDA	ESGO	NTL	VFR	P	AD 1.1.12
VÄSTERVIK	ESSW	NTL	VFR	P	AD 1.1.12
VÄSTERÅS/Johannisberg	ESSX	NTL	VFR	P	AD 1.1.12
VÄSTERÅS/Västmanlands sjukhus	ESEW	NTL	VFR	NS	AD 1.1.11
VÄXJÖ/Kronoberg	ESMX	INTL-NTL	IFR-VFR	S, NS, P	AD 2
ÅKERSBERGA	ESHR	NTL	VFR	P	AD 1.1.11
ÅLLEBERG	ESGC	NTL	VFR	P	AD 1.1.12
ÅNGE/Tälje	ESUJ	NTL	VFR	P	AD 1.1.12
ÅRE ÖSTERSUND	ESNZ	INTL-NTL	IFR-VFR	S, NS, P	AD 2
ÅSELE	ESUS	NTL	VFR	P	AD 1.1.12
ÅVIKEN/Åviken Fly Camp	ESNF	INTL-NTL	VFR	NS, P	AD 1.1.12
ÄLMHULT/Möckeln	ESMU	NTL	VFR	P	AD 1.1.12
ÄLVSBYN	ESUV	NTL	VFR	P	AD 1.1.12
ÄNGELHOLM	ESTA	INTL-NTL	IFR-VFR	S, NS, P	AD 2

Aerodrome Location indicator		Type of traffic permitted to use the aerodrome			Reference to AD Section and remarks
		INTL–NTL	IFR–VFR	S = Scheduled NS = Non-scheduled P = Private	
1		2	3	4	5
ÖLANDA	ESMZ	NTL	VFR	P	AD 1.1.12
ÖREBRO	ESOE	INTL-NTL	IFR-VFR	S, NS, P	AD 2
ÖREBRO/Universitetssjukhuset	ESHQ	NTL	VFR	NS	AD 1.1.11
ÖRESTEN	ESGM	NTL	VFR	P	AD 1.1.12
ÖRNSKÖLDSVIK	ESNO	INTL-NTL	IFR-VFR	S, NS, P	AD 2


HELSINKI FIR
SWEDEN FIR
TALLINN FIR
RIGA FIR
VILNIUS FIR
KALININGRAD FIR
WARSZAWA FIR
POLARIS FIR
BODØ OCEANIC FIR
KOBENHAVN FIR
KIRUNA/Kiruna sjukhus ESEQ
KIRUNA ESNQ
PAJALA ESUP
GÄLLIVARE/Vassara ESEG
GÄLLIVARE ESNG
GÄLLIVARE/Gällivare sjukhus ESHA
JOKKMOKK ESNJ
LULEÅ/Sunderby sjukhuset ESES
LULEÅ/Kallax ESPA
ÄLVSBYN ESUV
VIDSEL ESPE
PITEÅ ESNP
ARVIDSJAUR ESNX
SKELLEFTEÅ LASARETT ESUS
SKELLEFTEÅ ESNS
LYCKSELE/Sjukhuset ESEY
LYCKSELE ESNL
UMEÅ/Universitetssjukhuset ESHZ
UMEÅ ESNU
GARGNÄS ESUS
STORUMAN ESUD
VILHELMINA ESNW
ÅSELE ESUS
ÖRNSKÖLDSVIK ESNO
AVIKEN/Aviken Fly Camp ESNF
MELLANSEL ESUJ
KRAMFORS-SOLLEFTEÅ ESNK
SOLLEFTEÅ ESNB
RAMSELE ESUR
HARNÖSAND/Myran ESUH
SUNDSVALL-TIMRÅ ESNN
SUNDSVALL/Länssjukhuset ESED
HUDIKSVALL ESNH
HUDIKSVALL/Sjukhuset ESHX
ÄNGE/Tälje ESUJ
LJUSDAL ESUL
ARBRÅ ESUB
BOLLNÄS/Sjukhuset ESJB
SÖDERHAMN ESNY
MOHED ESUM
EDSBYN ESUY
GÄVLE/Sjukhuset ESGJ
GÄVLE ESSK
TIERP ESUT
GRYTTJOM ESKG
UPPSALA ESCM
UPPSALA/Akademiska sjukhuset ESHU
SUNDBRO ESKC
NORRTÄLJE/Sjukhuset ESHY
NORRTÄLJE ESSN
ENKÖPING/Långtora ESVL
STOCKHOLM/Arlanda ESSA
STOCKHOLM/Västerås ESOW
ÅKERSBERGA ESHR
STOCKHOLM/Dandervds sjukhus
STOCKHOLM/Karolinska Universitetssjukhuset Solna ESHK
STOCKHOLM/Gardet ESHT
STOCKHOLM/Gamla Stan ESHS
STOCKHOLM/Södersjukhuset ESHC
STOCKHOLM/Bromma ESSB
STOCKHOLM/Huddinge sjukhus ESHL
STOCKHOLM/Ska-Edeby ESSE
BUNGE ESVB
VISBY/Sjukhuset ESEV
VISBY ESSV
STORVIK/Lamstanas ESOL
FALUN/Falu lasarett ESEF
FALUN ESSF
BORLÄNGE ESSB
AVESTA ESVA
KATRINEHOLM ESSZ
GNESTA/Vangsö ESSZ
STOCKHOLM/Skavsta ESKN
NORRKÖPING/Kungsangen ESSP
NORRKÖPING/Saab ESSL
STEGEBORG ESSE
LINKÖPING/Malmen ESCF
LINKÖPING/Ryhov sjukhus ESHJ
LINKÖPING ESSK
EKSJÖ/Rannestätt ESMC
VÄSTERVIK ESSV
HULTSFRED-VIMMERBY ESSF
OSKARSHAMN ESMO
ÖLANDA ESMZ
SANDVIK ESFS
BORGLANDA ESMB
KALMAR ESMQ
HEMAVAN TÄRNABY ESUT
HALLVIKEN ESNA
ÖSTERSUND ÅRE ESNZ
ÖSTERSUND ÖVIKEN ESUO
OPTAND ESNM
ÖVIKEN ESUO
HEDE/Hedlanda ESNC
SVEG ESND
IDRE ESUE
SÄLEN/Scandinavian Mountains ESKS
ORSA ESNR
MORA/Mora lasarett ESJM
MORA/Siljan ESKM
SILJANSNÄS ESVG
GÄSTNÄF ESVG
FALUN/Falu lasarett ESEF
BORLÄNGE ESSB
DALAJÄRNA ESKD
LUDVIKA ESSG
MALUNG/Sälenfjällen ESVM
EKSHÄRAD ESKH
HAGFORS ESOH
TORSBY/Torsby sjukhus ESET
TORSBY ESST
HÄLLEFORS ESVH
VÄSTERÅS/Västmanlands sjukhus ESOW
VÄSTERÅS/Johannisberg ESSX
KOPPING ESVQ
ÖREBRO/Universitetssjukhuset ESHQ
ÖREBRO ESOE
ARBOGA ESOO
KARLSKOGA ESKK
KARLSTAD/Centralsjukhuset ESHV
KARLSTAD ESKK
MUNKFORS ESKO
BRÄTTFORSHEDEN ESSM
ARVIKA ESKV
SUNNE ESKU
STRÖMSTAD/Näsinge ESGS
BÄCKEFORS/Dalslands sjukhus ESJD
TROLLHÄTTAN/NAL sjukhus ESEN
FJÄLLBACKA ESTF
UDDEVALLA/Rokärr ESGU
UDDEVALLA/Backamo ESGA
KUNGÄLV/Kungälvs sjukhus ESHM
GÖTEBORG/Säve ESGP
GÖTEBORG/Östra sjukhuset ESHB
GÖTEBORG/Sahlgrenska sjukhuset ESHS
GÖTEBORG/Landvetter ESGG
RÅDA ESIB
SÄTENÄS ESFR
TROLLHÄTTAN/Vänersborg ESGT
FALKÖPING ESGK
LIDKÖPING ESGL
ÄLLEBERG ESGC
SKÖVDE/Kärnsjukhuset ESHO
SKÖVDE ESGR
GÖTENE/Brännebrona ESGN
KARLSBORG ESIA
VISINGSÖ ESSI
HERRLJUNGA ESGH
VÄRGÅRDA ESGO
ÄLINGSÅS ESGH
BORÅS/Borås sjukhus ESEB
BORÅS ESGE
TROLLHÄTTAN/Vänersborg ESGT
FALKÖPING ESGK
LIDKÖPING ESGL
ÄLLEBERG ESGC
ANDERSTORP ESMP
ORESTEN ESGM
VARBERG ESGV
FALKENBERG/Morup ESGF
HALMSTAD ESMT
HASSLEHOLM/Bokeberg ESHN
HÄSSLEHOLM ESFA
KRISTIANSTAD ESMK
SJÖBO/SÖVDE ESMI
ÄNGELHOLM ESTA
HÖGANÄS ESMH
LANDSKRONA ESML
RÖNNEBY ESDF
KARLSKRONA/Bleking sjukhuset ESHN
KARLSKRONA/Bleking ESDA
ÄLMHULT/Möckeln ESMU
VÄXJÖ/Kronoberg ESMX
LJUNGBY/Feringe ESMG
LJUNGBYHED ESTL
KÄGEROD ESMJ
ESLÖV ESME
Skånes universitetssjukhus ESMM
MALMÖ ESMS
VELLINGE ESTT
Kriegers Flak A ESEX
Kriegers Flak B ESEZ
LEGEND
See GEN 2-3



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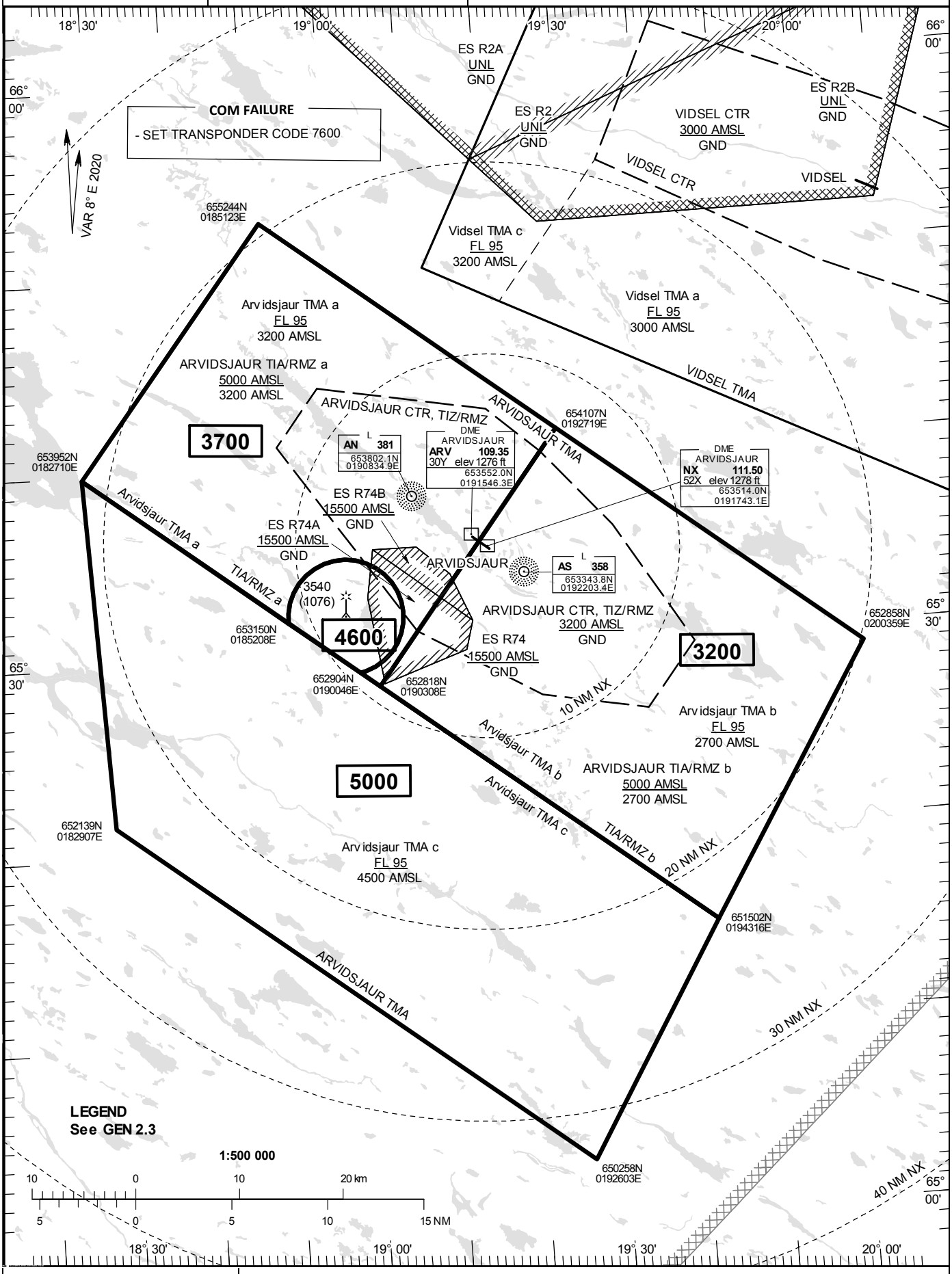
List of Waypoints and significant points at ARVIDSJAUR (ESNX)

WPT	Coordinates
RW12	653554.80N 0191522.22E
RW30	653504.88N 0191755.52E
NX551	653210.3N 0194607.7E
NX552	652510.0N 0194800.0E
NX553	652422.5N 0193111.4E
NX554	652816.6N 0193838.5E
NX555	653122.6N 0192914.7E
NX851	653941.0N 0184403.3E
NX852	654640.4N 0184152.8E
NX853	654733.3N 0185854.4E
NX854	654337.3N 0185127.7E
NX855	654033.7N 0190100.4E
IBNIC	651913N 0183640E
NEXOV	653021.2N 0193221.3E
PRAMA	654003.8N 0190233.2E
WAKZU	650832N 0190921E

AD ELEV 1245 FEET HGT and ALT in ft TA 5000 AMSL	ARVIDSJAUR 122.730 TOWER/INFORMATION	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



7. Under ATS öppethållning gäller PPR för all IFR skolflygning, TEL 0243 645 20.

8. Skolning, bogsering av segelflygplan och fallskärmshoppning är endast tillåten MÅN-FRE 0600-2100 (0500-2000) samt LÖR-SÖN 0800-1700 (0700-1600).

9. När ATS är stängt får instrumentinflygningar endast genomföras av flygoperatörer som har skrivit på ett avtal med flygplatsen. Detta gäller ej samhällsviktiga uppdrag, exempelvis ambulans och polishelikopter.

7. During ATS operational hours, PPR applies for all IFR school flights. TEL +46 (0)243 645 20.

8. School flights, glider towing and skydiving are only allowed MON-FRI 0600-2100 (0500-2000) and SAT-SUN 0800-1700 (0700-1600).

9. When ATS is closed instrument approach procedures can only be carried out by flight operators who has signed an agreement with the aerodrome. This does not apply to missions of importance to society, for example ambulance and police helicopter.

ESSD 2.21 MINSKNING AV BULLERSTÖRNING

1. För jetflygplan och flygplan med MTOM överstigande 7000 kg gäller att start RWY 32 och landning RWY 14 endast är tillåten om vind- eller trafikförhållanden så kräver.

2. För luftfartyg med MTOM överstigande 7000 kg: efter start RWY 32 skall normalt vänstersväng tillämpas. Avsteg från detta tillåts endast om vind- eller trafikförhållanden så kräver.

3. Flygning över tätbebyggt område.

a) Vid start och landning med lätta luftfartyg (< 2000 kg) skall sådana trafikvarv följas som innebär att tätbebyggda områden N RWY; Naglarby, Yttre Svärdsjö, Rommeholen, St.Tuna k:a, Långsjö, Västansjö, Skärsjö och Sörbo inte överflygs.

b) Ovan angivna byar bör i övrigt inte överflygas under 2000 ft AMSL.

4. Bullerkänsliga områden och byar finns publicerade på sid ESSD 6-1.

5. För jetflygplan som utför upprepade start- och landningsövningar gäller att lägsta tillåtna trafikvarvshöjd är 1500 ft AMSL.

NOISE ABATEMENT PROCEDURES

1. For jet ACFT and ACFT with MTOM exceeding 7000 kg take-off RWY 32 and landing RWY 14 only permitted when wind or traffic conditions so require.

2. For ACFT with MTOM exceeding 7000 kg: after takeoff RWY 32, left turn after departure is normal procedure. Deviation from this permitted only due to wind or traffic situation.

3. Flight over densely populated areas.

a) On take-off and landing with light aircraft (< 2000 kg) a traffic circuit shall be followed that not causes overflight of built up areas N RWY, Naglarby, Yttre Svärdsjö, Rommeholen, St.Tuna k:a, Långsjö, Västansjö, Skärsjö and Sörbo.

b) Overflight of above mentioned villages should be avoided below 2000 ft AMSL.

4. Noise sensitive areas and villages are published on page ESSD 6-1.

5. For jet aircraft making repeated take-off and landing practicies a lowest altitude of 1500 ft AMSL in traffic circuit applies.

ESSD 2.22 FLYGPROCEDURER

FLIGHT PROCEDURES

1. Startprocedurer, omnidirectional

1. Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
14	Climb straight ahead with MNM 320 ft/NM (5,3%) to MNM turning ALT 1500 ft AMSL. Continue climb to appropriate MSA.	Tree Tree (CIO) Antenna (CIO) Pylon	1199 603 638 2657	149°/7319 140°/3341 164°/3850 255°/20595
32	Climb straight ahead with MNM 360 ft/NM (5,9%) to MNM turning ALT 1500 ft AMSL. Continue climb to appropriate MSA.	Tree (CIO) Tree (CIO) Antenna Pylon	610 590 1249 2657	318°/3091 307°/2991 294°/12131 261°/21945

2. Lågsiktsprocedurer (LVP)

2. Low visibility procedures (LVP)

Banor och tillhörande utrustning.
Bana 14 och 32 är godkända för avgångstrafik när RVR underskrider 550 m, minimum RVR för avgångstrafik är 400 m.

Runways and equipment.
Runway 14 and 32 are approved for departures in RVR conditions less than 550 m, minimum RVR for departure is 400 m.

Initiering och verkställande av LVP.
ATC förbereder LVP när RVR underskrider 800 m och/eller molntäckeshöjd/vertikalsikten underskrider 300 ft. LVP träder i kraft när RVR underskrider 550 m och/eller molntäckeshöjden eller vertikalsikten underskrider 200 ft.

Initiation and termination of LVP.
LVP operations will be prepared by ATC when RVR is below 800 m and/or ceiling/vertical visibility is below 300 ft. LVP will be inforce when RVR is below 550 m and/or ceiling/vertical visibility is below 200 ft.

Dagermarkering och belysning.
Se ESSD-2-1

Ground marking and lighting.
See ESSD-2-1

LVP beskrivning.

Description of LVP.

a) När LVP är i drift tillåts för avgångstrafik endast en rörelse åt gången, ett luftfartyg alternativt fordonstrafik.

a) Aircraft and vehicle movements will be restricted to one aircraft movement at a time while departures when LVP is active.

b) Luftfartygs rörelse på plattor får endast ske efter klarering från ATC.

b) Aircraft movements on aprons after clearance from ATC only.

c) Väntläge taxibana A kan användas. Luftfartyg kommer bli instruerade att invänta taxiklarering på uppställningsplats i avvaktan på trafikavveckling.

c) Holding point TWY A can be used. Normally aircraft will be instructed to hold on parking until no other aircraft- or vehicle movements are under way.

d) När LVP är i drift tillåts normalt endast ett luftfartyg åt gången att taxa. Fordon inom manöverområdet är ej tillåtet i samband med avgångstrafik. Undantag ges för fordon som utför mätning av RVR.

d) Taxiing is normally restricted to one aircraft movement at a time. Vehicles on the maneuvering area are not permitted during departure operations when LVP is active. Exception is made for vehicles manually measuring RVR.

e) In- och uttaxning till RWY 14/32 endast via TWY A.

e) Entry and exit to RWY 14/32 is only permitted via TWY A.

3. VFR-flygning inom Borlänge TMA/CTR

3. VFR flight within Borlänge TMA/CTR

Normala in- och utpasseringspunkter se ESSD 6-1

Normal entry and exit points see ESSD 6-1

Väntlägen se ESSD 6-1

Holdings see ESSD 6-1

Avbrott i radioförbindelse se ESSD 6-1

Communication failure see ESSD 6-1

ESSU 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
18	1886	1886	1886	1886	Starter extension 286 m in daylight VMC.
36	1886	1886	1886	1886	ASDA 2172 m in daylight VMC.

ESSU 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT Type, LEN INTST	THR LGT Colour WBAR	VASIS (MEHT)	TDZ LGT LEN	RWY Centre Line LGT LEN, Spacing Colour INTST	RWY Edge LGT LEN, Spacing Colour INTST	RWY End LGT Colour WBAR	SWY LGT LEN, Colour
1	2	3	4	5	6	7	8	9
18	-	Green	APAPI Left/2.86° (49.9 ft)	-	-	1886/60 m White Caution zone 600 m yellow LIL/LIH	Red	-
36	Calvert CAT I 900 m LIL/LIH	Green	APAPI Left/3.00° (49.9 ft)	-	-	1886/60 m White Caution zone 600 m yellow LIL/LIH	Red	-

10 Remarks:	RWY 18:	TRID LIH. PCL LIL RWY and APCH on frequency 126.855 MHz for 10 SEC.
	RWY 36:	PCL LIL RWY and APCH on frequency 126.855 MHz for 10 SEC.

ESSU 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1.	ABN/IBN location, characteristics and hours of operation	ABN at TWR FLG W/G 24/min lit DUR daylight and PCL
2.	LDI location and LGT Anemometer location and LGT	Windsocks at RWY ends. Lighted windsock N Apron 600 m N THR 36
3.	TWY edge and centre line lighting	Edge: TWY A CL: -
4.	Secondary power supply/switch-over time	Available/15 sec
5.	Remarks	-

ESSU 2.16 HELICOPTER LANDING AREA

RWY 18/36 to be used.

ESSU 2.17 ATS AIRSPACE

1.	Designation and lateral limits	ESKILSTUNA TIZ/RMZ	592755N 0164912E - 592334N 0165059E - 591812N 0165209E - 590943N 0164722E - 590933N 0163941E - 591647N 0163411E - 592418N 0163450E - 592740N 0163515E - 592755N 0164912E
2.	Vertical limits	ESKILSTUNA TIZ/RMZ	1500 ft AMSL / GND
3.	Airspace classification	G	
4.	ATS unit call sign Language(s)	ESKILSTUNA INFORMATION Swedish/English	
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	Continuous two-way radiocommunication required in TIZ/RMZ. TIZ/RMZ established during hours of AFIS. Part of TIZ/RMZ that coincides with ESOW CTR is controlled airspace when ESOW CTR is established.	

ESSU 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
AFIS	ESKILSTUNA INFORMATION	126.855	HO	VDF
		121.500	HO	VDF

ESSU 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 36 ILS CAT I (6° E 2020)	SU	110.90 MHz	H24	592148.3N 0164227.3E		431 m beyond THR 18 ILS Class I/C/2
GP		330.80 MHz	H24	592041.7N 0164240.6E		Angle 3.0° RDH 50.9 ft 251 m past THR 36 right side
L 36	LX	402 kHz	H24	591631.7N 0164247.3E		Range 25 NM
DME	SU	110.90 MHz	H24	592041.8N 0164240.3E	151 ft	DME channel 46X

ESSU 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. Skolflygning

a) För all skolflygning gäller PPR, TEL 016 940 20 MON–FRI 0700–1600 (0600–1500).

b) Upprepade start- och landningar, TGL, tillåts endast MON–FRI 0700–1600, TUE och THU även 1700–2100 (1600–2000).

LOCAL TRAFFIC REGULATIONS

1. School flight

a) All school flights are subject to PPR, TEL +46 (0)16 940 20 MON–FRI 0700–1600 (0600–1500).

b) Repeated touch-and-go landings,TGL, are permitted only MON–FRI 0700–1600 (0600–1500), TUE and THU also 1700–2100 (1600–2000).

ESGG 2.12 RUNWAY PHYSICAL CHARACTERISTICS

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

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
03	See ESGG AOC	-	-	3480 x 280	90 x 90
21	See ESGG AOC	-	-	3480 x 280	90 x 90

Designations RWY NR	Location/ description of arresting system	OFZ (Yes/No)	Remarks
1	12	13	14
03	-	Yes	-
21	-	Yes	-

ESGG 2.13 DECLARED DISTANCES

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

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

ESGG 2.14 APPROACH AND RUNWAY LIGHTING

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

10 Remarks: **RWY 03:** **LED lights on RTHL, REDL, RENL, RCLL, RTZL**
RWY 21: **LED lights on RTHL, REDL, RENL, RCLL, RTZL**

ESGG 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1.	**ABN/IBN location, characteristics and hours of operation**	**-**
2.	**LDI location and LGT**	**Lighted windsocks at PAPI locations and on apron between stand 58-60. Unlighted windsock at fire station.**
	Anemometer location and LGT	**540 m past THR 03 right side, unlighted (outside TWY) 435 m past THR 21 right side, unlighted 345 m past THR 21 left side, unlighted**
3.	**TWY edge and centre line lighting**	**Edge: - CL: TWY A, B, C, D, E, F, G, H, J, K, L, Y, Z LED lights on all TWY centre line light LED ligts on all RGL LED lights on all stopbars**
4.	**Secondary power supply/switch-over time**	**Available/1 sec**
5.	**Remarks**	**See also ESGG 2-1 and ESGG 2-3**

ESGG 2.16 HELICOPTER LANDING AREA

RWY 03/21 to be used

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 55.5 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	587 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.

6.4 Avbrott i radioförbindelse

Se ESGG 6-1.

6.5 Restriktion gällande skolflygning

Ensamflygning under grundutbildning är inte tillåten.

6.4 Communication failure

See ESGG 6-1.

6.5 Restrictions concerning flight training

Solo flight during basic flight training (private pilot's licence) will not be permitted.

ESGG 2.23 ÖVRIG INFORMATION

1. Hastighetsbegränsning inom TMA/CTR

Luftfartyg får inte framföras med högre fart än 250 kt IAS under FL 100 om inte annat anges av ATC.

2. Vindskjuvning

Vid vindhastigheter överstigande 25 kt i sektorn 230–300° kan vindskjuvning förekomma på final bana 21 dessutom kan svår turbulens förekomma på kort final och fram till sättning.

3. Förhandstillstånd (PPR)/ Förhandsmeddelande (PN) inom Göteborg TMA

3.1 Förhandstillstånd (PPR) krävs för fotoflyg inom Göteborg TMA och ska inhämtas helgfri vardag 0700–1500 (0600–1400) av skiftledare på ATS Landvetter via e-post: esggws@lfv.se

Fotoflyg ska utföras på jämna tusental fothöjder AMSL eller på (hela) flygnivåer

Telefonsamtal till skiftledare ATS Landvetter innan flygning påbörjas.

Avsteg från ovanstående kan göras av skiftledare ATS Landvetter TEL 031 94 11 44.

3.2 Förhandsmeddelande (PN) krävs för nedanstående flygverksamhet inom Göteborg TMA.

- Förplanerad kontrollflygning (mätflygning) av navigerings- och inflygningshjälpmedel.
- Geologisk mätflygning och liknande.

Senast 24 timmar innan flygning, skall förhandsmeddelande/ PN lämnas helgfri vardag 0700–1500 (0600–1400) till ATS Landvetter via e-post: esggws@lfv.se

4. Obemannade ballonger för rutinmässiga aerologiska mätningar skickas upp från SMHI autosondstation, öster om bana 03/21, vid 2330 UTC.

5. Beviljade undantag från krav i CS-ADR-DSN:
- Fasta hinder genomtränger hinderbegränsande ytor.

ADDITIONAL INFORMATION

1. Speed limitation within TMA/CTR

Aircraft shall not be operated at an airspeed of more than 250 kt IAS below FL 100 unless otherwise instructed by ATC.

2. Windshear

When the wind velocity exceeds 25 kt in sector 230–300° windshear may occur on final RWY 21, severe turbulence may also occur on short final and during flare out.

3. Prior Permission Required (PPR)/ Prior notice required (PN) within Göteborg TMA

3.1 Prior Permission Required (PPR) for aerial photo missions and shall be obtained on non-holiday weekdays 0700–1500 (0600–1400) from Watch Supervisor at ATS Landvetter by mail: esggws@lfv.se

Aerial photo missions shall be performed at 1000 ft-even altitudes or flight levels.

Phonecall shall be made to Watch Supervisor, ATS Landvetter before flight.

Exceptions may be approved by Watch Supervisor. Phone +46 (0)31 94 11 44.

3.2 Prior notice (PN) is required for operations mentioned below within Göteborg TMA.

- Non-urgent navaids and approach aids calibration flights.
- Geological survey flights and similar.

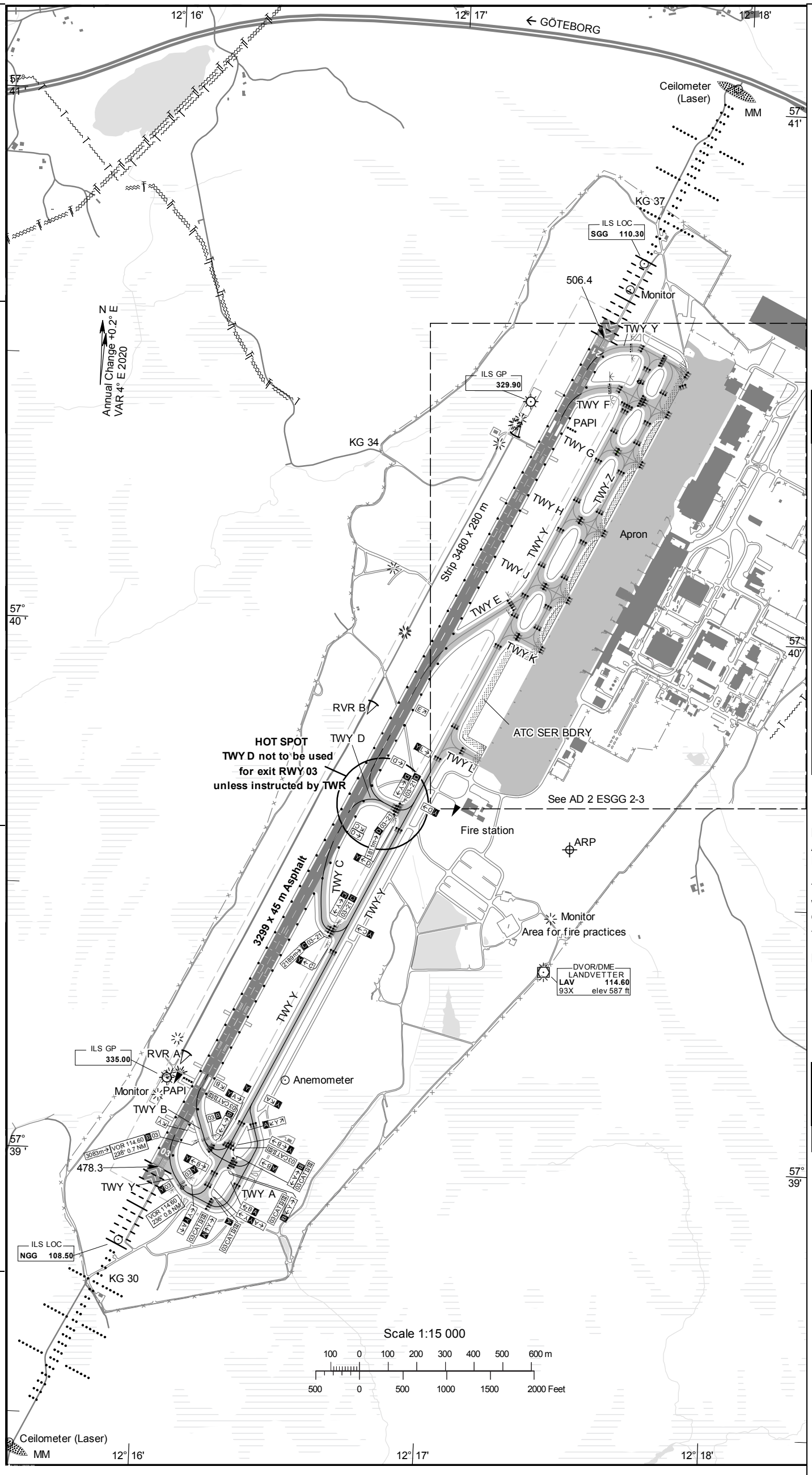
Prior notice of the flight shall be given at least 24 hours in advance, on non holiday weekdays 0700–1500 (0600–1400), to ATS Landvetter by e-mail:esggws@lfv.se

4. Unmanned balloons for routine aerological measurements are sent from SMHI automatic probe station, E of runway 03/21, at 2330 UTC.

5. Granted exemptions from requirements in CS-ADR-DSN:
- Fixed obstacles penetrating the obstacle limitation surfaces.

ESGG 2.24 TILLHÖRANDE KARTOR — RELATED CHARTS

AD chart		ESGG 2-1
Parking/docking chart - ICAO		ESGG 2-3/4
AD Ground Movement chart	Arrival	ESGG 2-5
AD Ground Movement chart	Departure RWY 03	ESGG 2-7
AD Ground Movement chart	Departure RWY 21	ESGG 2-8
AOC	RWY 03/21	ESGG-3-1
PATC	RWY 03	ESGG-3-3
PATC	RWY 21	ESGG-3-5
Area Chart	TMA	ESGG 4-1
List of waypoints and significant points		ESGG 4-3
RNAV SIDs GENERAL		ESGG 4-5
RNAV (DME/DME or GNSS) SID	RWY 03	ESGG 4-7
RNAV (DME/DME or GNSS) SID	RWY 21	ESGG 4-13
RNAV STARs GENERAL		ESGG 4-18
RNAV (DME/DME or GNSS) STAR	RWY 03 Open	ESGG 4-19
RNAV (DME/DME or GNSS) STAR	RWY 03 Closed	ESGG 4-23
RNAV (DME/DME or GNSS) STAR	RWY 21 Open	ESGG 4-27
RNAV (DME/DME or GNSS) STAR	RWY 21 Closed	ESGG 4-31
ATC Surveillance Minimum ALT chart		ESGG 4-91
IAC	ILS or LOC RWY 03	ESGG 5-1
IAC	NDB RWY 03	ESGG 5-2
IAC	ILS or LOC RWY 21	ESGG 5-3
IAC	NDB RWY 21	ESGG 5-4
RNP AR GENERAL		ESGG 5-5
IAC	RNP z RWY 03	ESGG 5-7
IAC	RNP y RWY 03 (AR)	ESGG 5-9
IAC	RNP z RWY 21	ESGG 5-11
IAC	RNP y RWY 21 (AR)	ESGG 5-13
VAC		ESGG 6-1



ARP 573936N 0121728E

AD ELEV 507 FEET

LEGEND See GEN 2.3

Dimensions in m, ELEV in ft

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

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

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

MAX wingspan 52 m on TWY D.

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

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

CHANGE: Stand 43 withdrawn.

ARP 573936N 0121728E
AD ELEV 507 FEET

LEGEND See GEN 2.3
Dimensions in m, ELEV in ft

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

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

MAX wingspan TWY Z 62 m

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

Docking system type	Stands Number
FMT APIS	5A, 8-17, 19-20, 30-41A
SAFEDOCK	21-23B

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

Self-manoeuvering procedure for stand 1-3.
Stop Aircraft when pilots eye view are at an angle of 90º to stopline at the stand.

ACL/INS Reference points — **GÖTEBORG/Landvetter**

STAND	INS COORD		ELEV ft	PARKING AID	BEARING STRENGTH
1	574031.70N	0121757.44E	*507*		PCN 45 F/B/X/U
2	574027.23N	0121757.56E	*507*		PCN 62 F/B/X/U
3	574026.14N	0121756.57E	*507*		PCN 62 F/B/X/U
5	574022.88N	0121753.29E	*507*		PCN 60 R/B/X/T
5A	574022.12N	0121753.09E	*507*	APIS	PCN 60 R/B/X/T
6	574021.65N	0121752.17E	*507*		PCN 60 R/B/X/T
7	574020.41N	0121751.05E	*507*		PCN 60 R/B/X/T
7A	574019.61N	0121750.81E	*507*		PCN 60 R/B/X/T
9	574017.97N	0121748.35E	*506*	APIS	PCN 90 R/B/X/U
10	574016.46N	0121746.97E	*505*	APIS	PCN 90 R/B/X/U
11	574015.05N	0121745.96E	*504*	APIS	PCN 90 R/B/X/U
12	574013.58N	0121745.23E	*504*	APIS	PCN 40 R/B/X/T
13	574012.07N	0121743.86E	*503*	APIS	PCN 40 R/B/X/T
14	574010.83N	0121742.73E	*502*	APIS	PCN 40 R/B/X/T
15	574009.44N	0121741.46E	*503*	APIS	PCN 56 R/B/X/T
16	574007.76N	0121739.94E	*503*	APIS	PCN 56 R/B/X/T
17	574006.30N	0121738.60E	*502*	APIS	PCN 56 R/B/X/T
19	574003.80N	0121736.27E	*502*	APIS	PCN 56 R/B/X/T
20	574002.00N	0121734.64E	*503*	APIS	PCN 56 R/B/X/T
21	573959.81N	0121733.03E	*502*	Safedock	PCN 70 R/B/X/T
22A	573958.48N	0121730.14E	*501*	Safedock	PCN 70 R/B/X/T
22	573957.71N	0121731.11E	*502*	Safedock	PCN 70 R/B/X/T
22B	573957.04N	0121729.55E	*501*	Safedock	PCN 70 F/B/X/T
23A	573955.90N	0121727.79E	*501*	Safedock	PCN 70 R/B/X/T
23	573955.05N	0121728.63E	*502*	Safedock	PCN 70 R/B/X/T
23B	573954.34N	0121727.63E	*502*	Safedock	PCN 70 F/B/X/T
30	573952.41N	0121727.29E	*501*	APIS	PCN 90 F/B/X/U

STAND	INS COORD		ELEV ft	PARKING AID	BEARING STRENGTH
32	573951.01N	0121726.33E	*502*	APIS	PCN 90 F/B/X/U
34	573949.67N	0121725.11E	*503*	APIS	PCN 90 F/B/X/U
36	573948.33N	0121723.90E	*505*	APIS	PCN 90 F/B/X/U
38	573946.88N	0121723.10E	*506*	APIS	PCN 90 F/B/X/U
40	573945.55N	0121721.88E	*507*	APIS	PCN 90 F/B/X/U
41	573943.76N	0121720.11E	*507*	APIS	PCN 90 F/B/X/U
41A	573942.37N	0121716.84E	*508*	APIS	PCN 90 F/B/X/U
42	574029.16N	0121751.47E	*506*		PCN 79 R/B/X/T
44	574028.47N	0121748.35E	*506*		PCN 66 R/B/X/T
46	574022.99N	0121743.11E	*507*		PCN 41 F/B/X/T
48	574021.34N	0121741.60E	*507*		PCN 41 F/B/X/T
50	574017.29N	0121737.96E	*506*		PCN 34 R/B/X/T
52	574015.60N	0121736.43E	*505*		PCN 34 R/B/X/T
54	574013.09N	0121734.14E	*504*		PCN 34 R/B/X/T
56	574009.81N	0121731.25E	*503*		PCN 52 R/B/X/T
58	574008.44N	0121729.98E	*503*		PCN 52 R/B/X/T
60	574007.06N	0121728.72E	*502*		PCN 52 R/B/X/T
62	574005.68N	0121727.47E	*502*		PCN 52 R/B/X/T
68	573955.38N	0121718.24E	*501*		PCN 90 F/B/X/U
70	573954.07N	0121717.05E	*501*		PCN 90 F/B/X/U
72	573952.74N	0121715.83E	*503*		PCN 90 F/B/X/U
74	573951.40N	0121714.61E	*504*		PCN 90 F/B/X/U
76	573950.04N	0121713.36E	*505*		PCN 90 F/B/X/U
78	573948.33N	0121711.69E	*506*		PCN 90 F/B/X/U

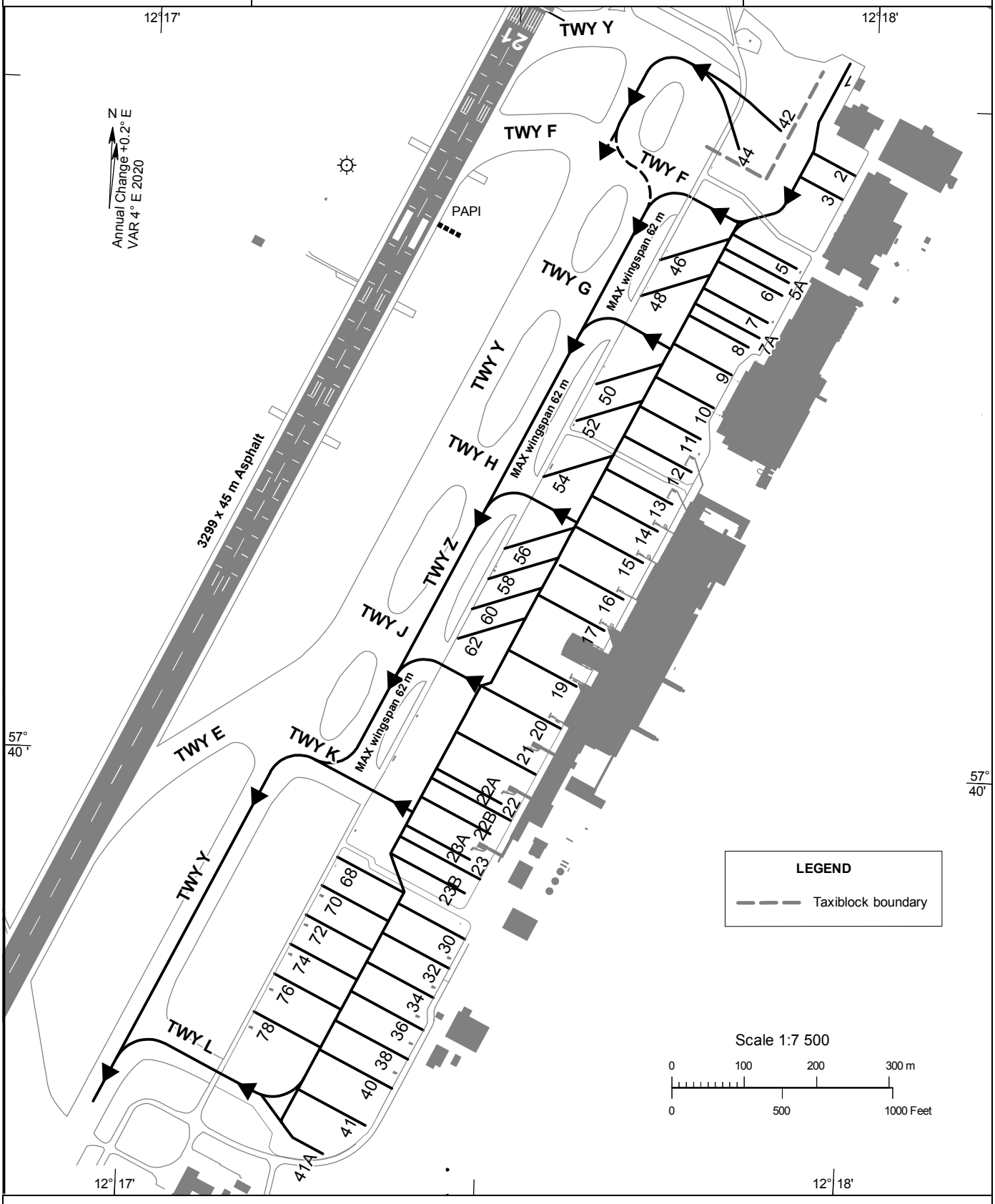
ARRIVAL

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

MAX wingspan TWY Z 62 m

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

LFV	CHANGE: Remark, Stand 43 withdrawn	AIRAC AMDT 1/2025 **20 MAR 2025**



DEPARTURE RWY 03

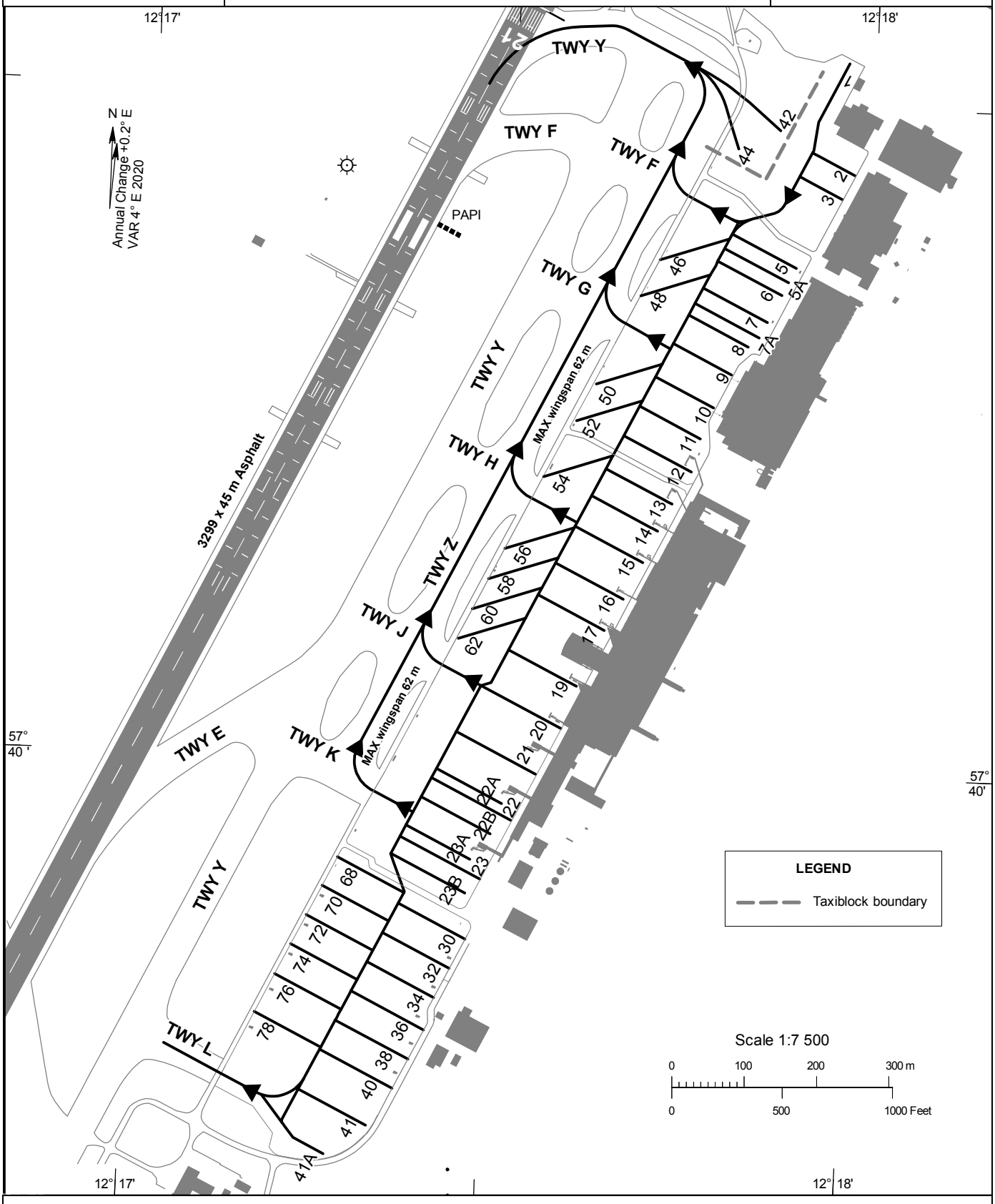
REMARK: TWY Z ("INNER") FOR OUTTAXIING

ALTERNATIVE TAXI ROUTE FROM PARKINGSTAND

42 AND 44 TO RWY 03 – – – – – – –

MAX wingspan TWY Z 62 m

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

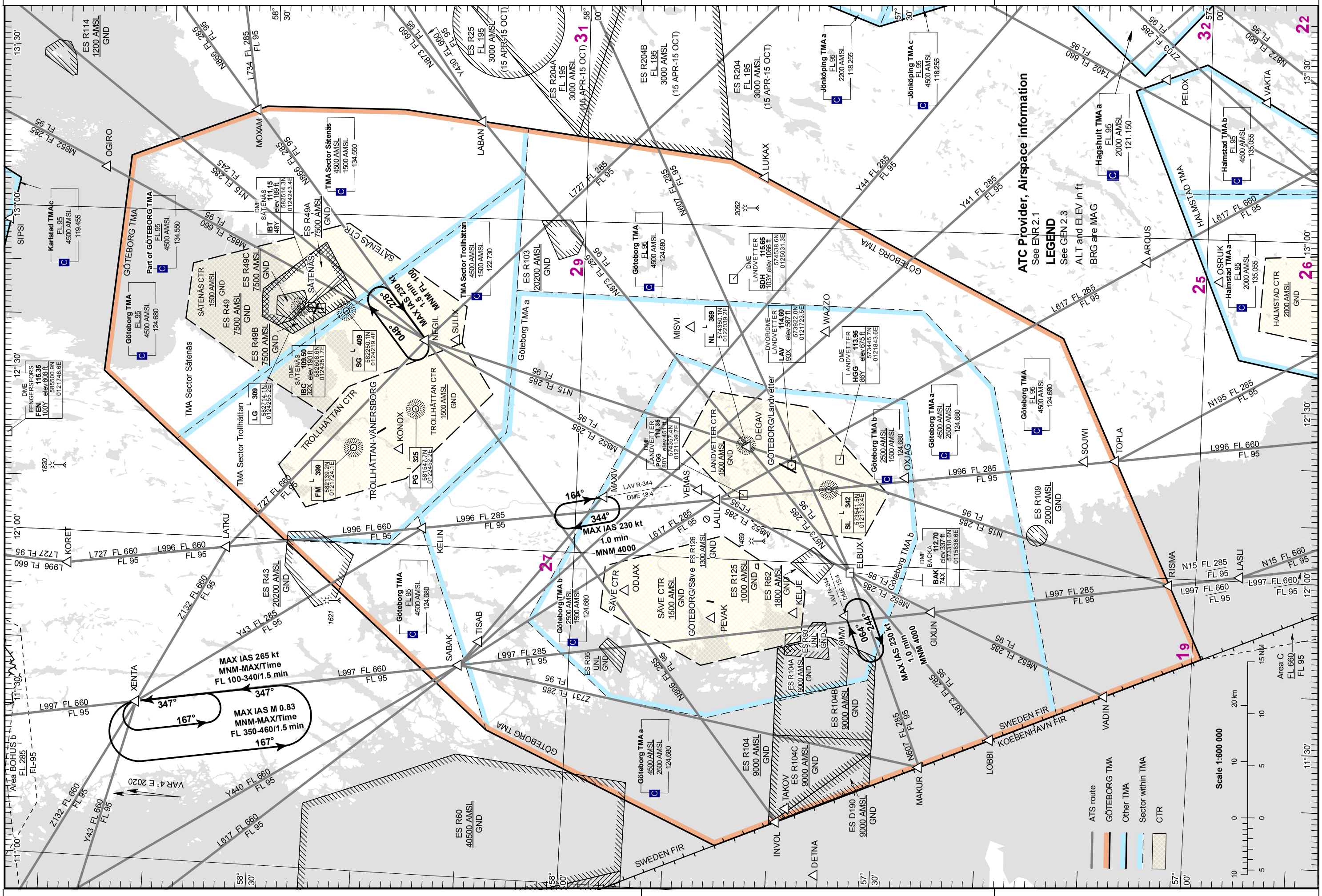


DEPARTURE RWY 21

REMARK 1: TWY Z ("INNER") FOR OUTTAXIING

MAX wingspan TWY Z 62 m

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


ATC Provider, Airspace information
See ENR 2.1
LEGEND
See GEN 2.3
ALT and ELEV in ft
BRG are MAG
GÖTEBORG TMA
TMA Sector Sätenäs
TMA Sector Trollhättan
Göteborg TMA a
Göteborg TMA b
Göteborg TMA c
Karlstad TMA c
Part of GÖTEBORG TMA
Jönköping TMA a
Jönköping TMA c
Hagshult TMA a
Halmstad TMA a
Halmstad TMA b
HALMSTAD TMA
HALMSTAD CTR
SÄTENÄS CTR
TROLLHÄTTAN CTR
TROLLHÄTTAN-VÄNERSBORG CTR
SÄVE CTR
LANDVETTER CTR
Göteborg TMA
ES R204A FL 195 3000 AMSL (15 APR-15 OCT)
ES R204B FL 195 3000 AMSL (15 APR-15 OCT)
ES R204 FL 195 3000 AMSL (15 APR-15 OCT)
ES R25 FL 195 3000 AMSL (15 APR-15 OCT)
ES R114 1200 AMSL GND
ES R49A 7500 AMSL GND
ES R49B 7500 AMSL GND
ES R49C 7500 AMSL GND
ES R49 7500 AMSL GND
ES R103 20200 AMSL GND
ES R43 20200 AMSL GND
ES R60 40500 AMSL GND
ES R104 9000 AMSL GND
ES R104A 9000 AMSL GND
ES R104B 9000 AMSL GND
ES R104C 9000 AMSL GND
ES D190 9000 AMSL GND
ES R109 2000 AMSL GND
ES R126 1300 AMSL GND
ES R95 UNL GND
ES R93 UNL GND
ES R125 1000 AMSL GND
ES R62 1800 AMSL GND
TMA Sector Sätenäs 4500 AMSL 1500 AMSL 134.550
TMA Sector Trollhättan 4500 AMSL 1500 AMSL 122.730
Göteborg TMA FL 95 4500 AMSL 124.680
Göteborg TMA a FL 95 4500 AMSL 2500 AMSL 124.680
Göteborg TMA b FL 95 2500 AMSL 1500 AMSL 124.680
Karlstad TMA c FL 95 4500 AMSL 119.455
Part of GÖTEBORG TMA FL 95 4500 AMSL 134.550
Jönköping TMA a FL 95 2200 AMSL 118.255
Jönköping TMA c FL 95 4500 AMSL 118.255
Hagshult TMA a FL 95 2000 AMSL 121.150
Halmstad TMA a FL 95 2000 AMSL 135.055
Halmstad TMA b FL 95 4500 AMSL 135.055
HALMSTAD CTR 2000 AMSL GND
SÄTENÄS CTR 1500 AMSL GND
TROLLHÄTTAN CTR 1500 AMSL GND
SÄVE CTR 1500 AMSL GND
LANDVETTER CTR 1500 AMSL GND
TMA Sector Sätenäs 4500 AMSL 1500 AMSL 134.550
DME SÄTENÄS 111.15 IBT 48Y elev 189 ft 582514.3N 0124243.4E
DME SÄTENÄS 109.50 IBX 42Y elev 190 ft 582608.6N 0124251.7E
DME FENGERSFORS 115.35 FEN 100Y elev 608 ft 585500.9N 0121748.6E
DME LANDVETTER 115.65 SDH 103Y elev 1066 ft 574538.6N 0125031.3E
DME LANDVETTER 114.60 LAV 99X elev 587 ft 573922.0N 0121723.3E
DME LANDVETTER 113.95 HGG 86Y elev 675 ft 573445.7N 0121843.6E
DME LANDVETTER 114.35 PGG 89Y elev 607 ft 574357.4N 0121139.7E
DME BACKA 112.70 BAK 74X elev 337 ft 573318.6N 0115936.6E
VOR/DME LANDVETTER 114.60 LAV 99X elev 587 ft 573922.0N 0121723.3E
L 309 LG 582714.1N 0124255.2E
L 399 FM 582138.2N 0121724.1E
L 325 PG 581547.7N 0122452.2E
L 342 SL 573541.4N 0121313.4E
L 369 NL 574350.1N 0122038.2E
409 SG 582250.1N 0124219.4E
SIPSI
OGIRO
MOXAM
LABAN
LUKAX
PELOX
VAKTA
ARGUS
OSRUK
WAZZO
MSVI
SULIX
NEGIL
SATENAS
KONOX
TROLLHÄTTAN-VÄNERSBORG
KORET
LATKU
KELIN
SABAK
TISAB
XENTA
LALIL
VEMAS
MAXIV
DEGAV
ELBUX
PEVAK
ODJAX
TOMVI
GIXUN
SOJWI
TOPLA
OXJAG
RISMA
LASLI
VADIN
MAKUR
LOBBI
TAKOV
INVOL
DETNA
Y44 FL 285 FL 95
Y41 FL 285 FL 95
L617 FL 660 FL 95
L617 FL 285 FL 95
L996 FL 660 FL 95
L996 FL 285 FL 95
L997 FL 660 FL 95
L997 FL 285 FL 95
L727 FL 660 FL 95
L727 FL 285 FL 95
L734 FL 285 FL 95
M852 FL 285 FL 95
M862 FL 285 FL 95
M866 FL 285 FL 95
M873 FL 285 FL 95
M607 FL 285 FL 95
N873 FL 660 FL 95
N873 FL 285 FL 95
N852 FL 285 FL 95
N866 FL 285 FL 95
N15 FL 285 FL 95
N15 FL 660 FL 95
N195 FL 285 FL 95
N607 FL 285 FL 95
Z703 FL 285 FL 95
Z731 FL 285 FL 95
Z132 FL 660 FL 95
Y43 FL 285 FL 95
Y440 FL 660 FL 95
1402 FL 660 FL 95
L1402 FL 660 FL 95
MAX IAS 230 kt 1.5 min MNM FL 100 228° 048°
MAX IAS 265 kt MNM-MAX/Time FL 100-340/1.5 min 347° 167°
MAX IAS M 0.83 MNM-MAX/Time FL 350-460/1.5 min 347° 167°
MAX IAS 230 kt 1.0 min MNM 4000 164° 344°
MAX IAS 230 kt 1.0 min MNM 4000 064° 244°
LAV R-344 DME 18.4
LAV R-244 DME 15.4
VAR 4° E 2020
Area BOHUS b FL 285 FL 95
SWEDEN FIR
KOEBENHAVN FIR
Area C FL 660 FL 95
ATS route
GÖTEBORG TMA
Other TMA
Sector within TMA
CTR
Scale 1:600 000
15 NM
20 km

RNAV SIDs at GÖTEBORG/Landvetter

Note: This information must be included in Company Route Manuals.

GENERAL

RNAV SIDs at GÖTEBORG/Landvetter are designed in order to minimize noise dispersion.
CPDLC available at all levels, including TMA. Crew should log on with ESMM before take-off.

APPROVED USERS, EQUIPMENT AND OPERATIONS

All RNAV SIDS are based on RNAV 1.
Operators receiving clearance via RNAV SID and are unable flying RNAV 1, shall inform ATC by using phraseology “UNABLE RNAV SID”.

POSITION UPDATE

All RNAV SIDs are based on DME/DME or GNSS for position update. Failure of one DME in Göteborg TMA will affect following RNAV SIDs navigation based on DME/DME. Aircraft depending on DME/DME for position update shall inform ATC for radar vectors.

DME U/S	RWY	DME/DME for position update not available for following RNAV SID
SDH	03	LABAN 3M, LUKAX 3M, NEGIL 3M, TISAB 3R
BAK	03	DETNA 3M
BAK	21	DETNA 3J
PGG	21	DETNA 3J

RNAV EQUIPMENT FAILURE

If the airborne RNAV equipment fails, ATC shall be informed as soon as practicable. ATC will then provide radar vectors.

NON P-RNAV EQUIPPED AIRCRAFT

Departing aircraft that is not equipped for RNAV SID shall inform Clearance Deliver by using phraseology “UNABLE RNAV SID DUE RNAV TYPE”. After receiving a SID, Non RNAV aircraft shall follow instructions in “ACFT unable to follow RNAV SID”, that contains tracks/altitude/speed for the first part and can thereafter expect radar vectors to the exit point stated in the flight plan.

Additionally at first contact with GÖTEBORG APPROACH, aircraft shall report altitude to verify SSR Mode C, and once again report that aircraft is unable to follow RNAV SID by using phraseology “UNABLE RNAV SID”.

RNAV SID INSTRUCTION

For each RNAV SID, there is a description with a list of waypoints in sequence, where FLY-OVER WPTs are printed underlined. If there is a speed limit, it will be notified in the list. There is also a description of the database coding to be used by navdatabase suppliers only. The coding is according to ARINC 424 standard.

WAYPOINT LIST

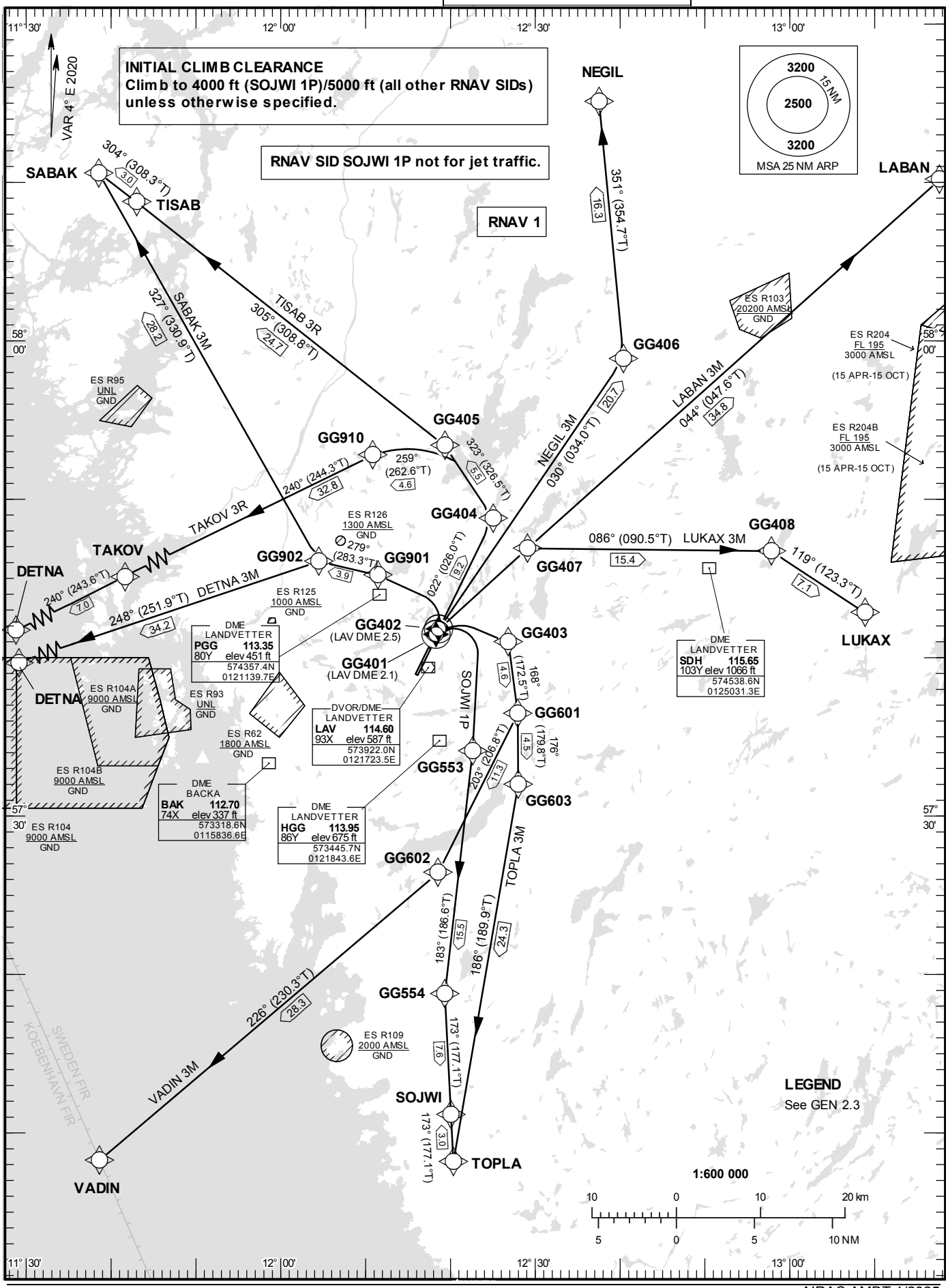
A separate list of coordinates in WGS-84 for all waypoints used at GÖTEBORG/Landvetter is provided, see AD 2 ESGG 4-3.

STANDARD INSTRUMENT DEPARTURE CHART (SID) - ICAO

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

LANDVETTER TOWER	118.605
LANDVETTER ATIS	118.380
GÖTEBORG APPROACH	124.680

RNAV (DME/DME or GNSS)
SID RWY 03



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

REMARK

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

All RNAV SIDs are based on RNAV 1.

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

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

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

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

See AD 2.21 para 1.6 for availability.

RNAV SID SOJWI 1P not for jet traffic.

DETNA 3M

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

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

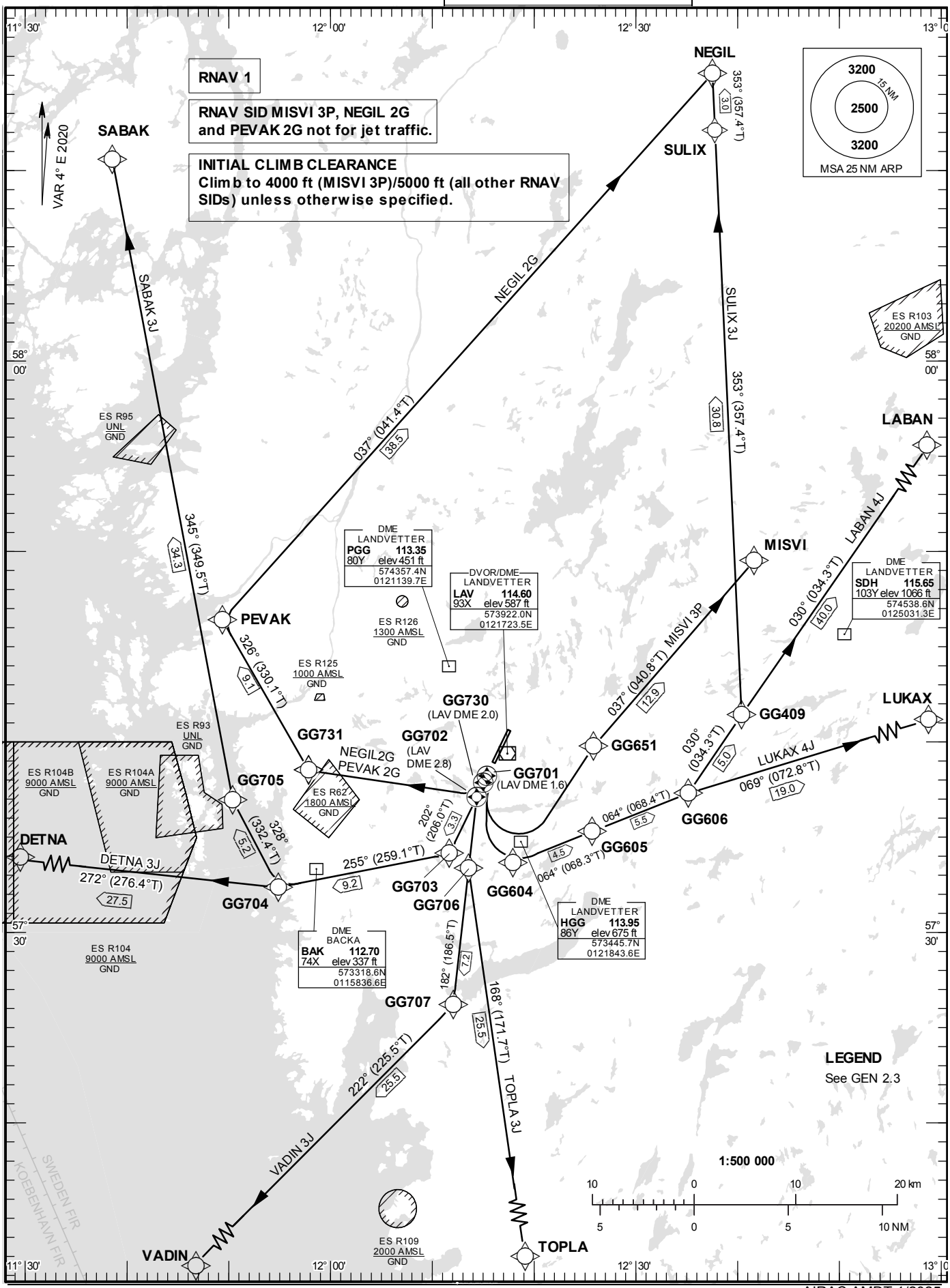
ACFT unable to follow RNAV SID: Report “unable RNAV SID due RNAV type” to Clearance Delivery and “unable RNAV SID” to Göteborg Approach at first contact.
Climb on track 022° to LAV DME 2.1 (MNM 900 ft before turn). Turn left to track 296° (max 210 kt IAS until established on 296°). Expect radar vectors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

STANDARD INSTRUMENT DEPARTURE CHART (SID) - ICAO

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

LANDVETTER TOWER	118.605
LANDVETTER ATIS	118.380
GÖTEBORG APPROACH	124.680

RNAV (DME/DME or GNSS)
SID RWY 21



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

REMARK

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

All RNAV SIDs are based on RNAV 1.

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

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

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

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

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

DETNA 3J

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

SID instruction: Climb on track 202° to GG702 – GG703 – GG704 – DETNA. **124.205**

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

LABAN 4J

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

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

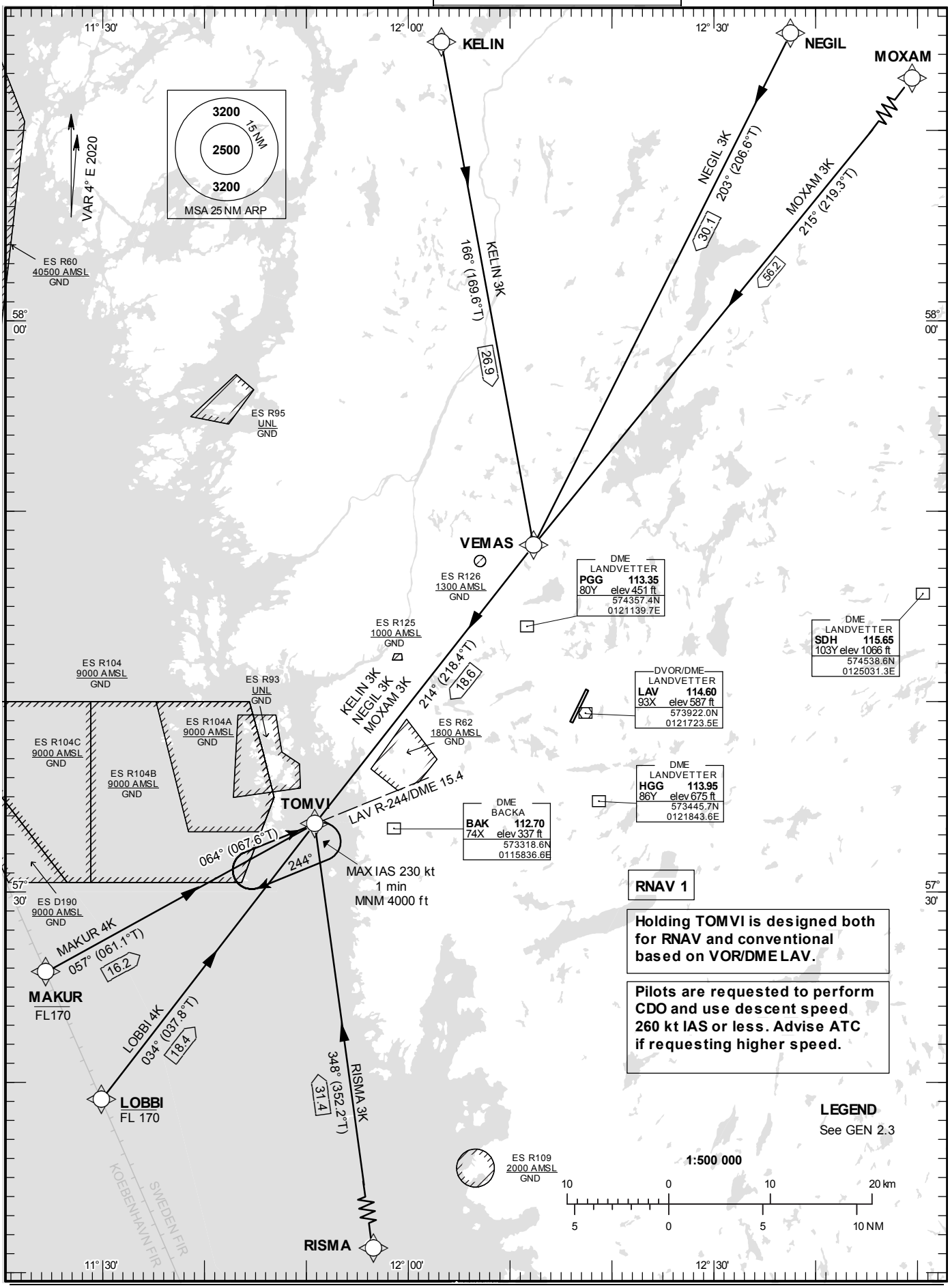
ACFT unable to follow RNAV SID: Report “unable RNAV SID due RNAV type” to Clearance Delivery and “unable RNAV SID” to Göteborg Approach at first contact.
Climb on track 202° to LAV DME 1.6 (MNM 900 ft before turn). Turn left to track 153° (max 210 kt IAS until established on 153°). At LAV DME 3.8 turn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

STANDARD INSTRUMENT ARRIVAL CHART (STAR) - ICAO

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

LANDVETTER TOWER	118.605
LANDVETTER ATIS	118.380
GÖTEBORG APPROACH	124.680

RNAV (DME/DME or GNSS) STAR RWY 03



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

REMARK

Following RNAV STARs are named OPEN STARs and aircraft will be radar vectored to final.

RNAV STARs are based on RNAV 1.

Operators unable flying RNAV 1 shall inform ATC by using phraseology “UNABLE RNAV STAR”. Radar vectors will then be provided.

Pilots are requested to perform CDO and use descent speed 260 kt IAS or less. Advise ATC if requesting higher speed.

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

When established on ILS final approach track, maintain 160 kt IAS or more until passing OM, unless otherwise instructed. If unable, inform ATC immediately.

In case of radio communication failure, see AD 2.22 para 4.

KELIN 3K

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/ RDH (°/ft)	Rec Navaid	Navigation Specification
IF	KELIN	-	-	-	-	-	-	-	-	RNAV 1
TF	VEMAS	-	166°(169.6°)	26.9	-	-	-	-	-	RNAV 1
TF	TOMVI	-	214°(218.4°)	18.6	-	-	-	-	-	RNAV 1

STAR instruction: KELIN – VEMAS – TOMVI – radar vectors.

LOBBI 4K

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/ RDH (°/ft)	Rec Navaid	Navigation Specification
IF	LOBBI	-	-	-	-	-FL170	-	-	-	RNAV 1
TF	TOMVI	-	034°(037.8°)	18.4	-	-	-	-	-	RNAV 1

STAR instruction: LOBBI (FL170 or below) – TOMVI – radar vectors.

MAKUR 4K

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/ RDH (°/ft)	Rec Navaid	Navigation Specification
IF	MAKUR	-	-	-	-	-FL170	-	-	-	RNAV 1
TF	TOMVI	-	057°(061.1°)	16.2	-	-	-	-	-	RNAV 1

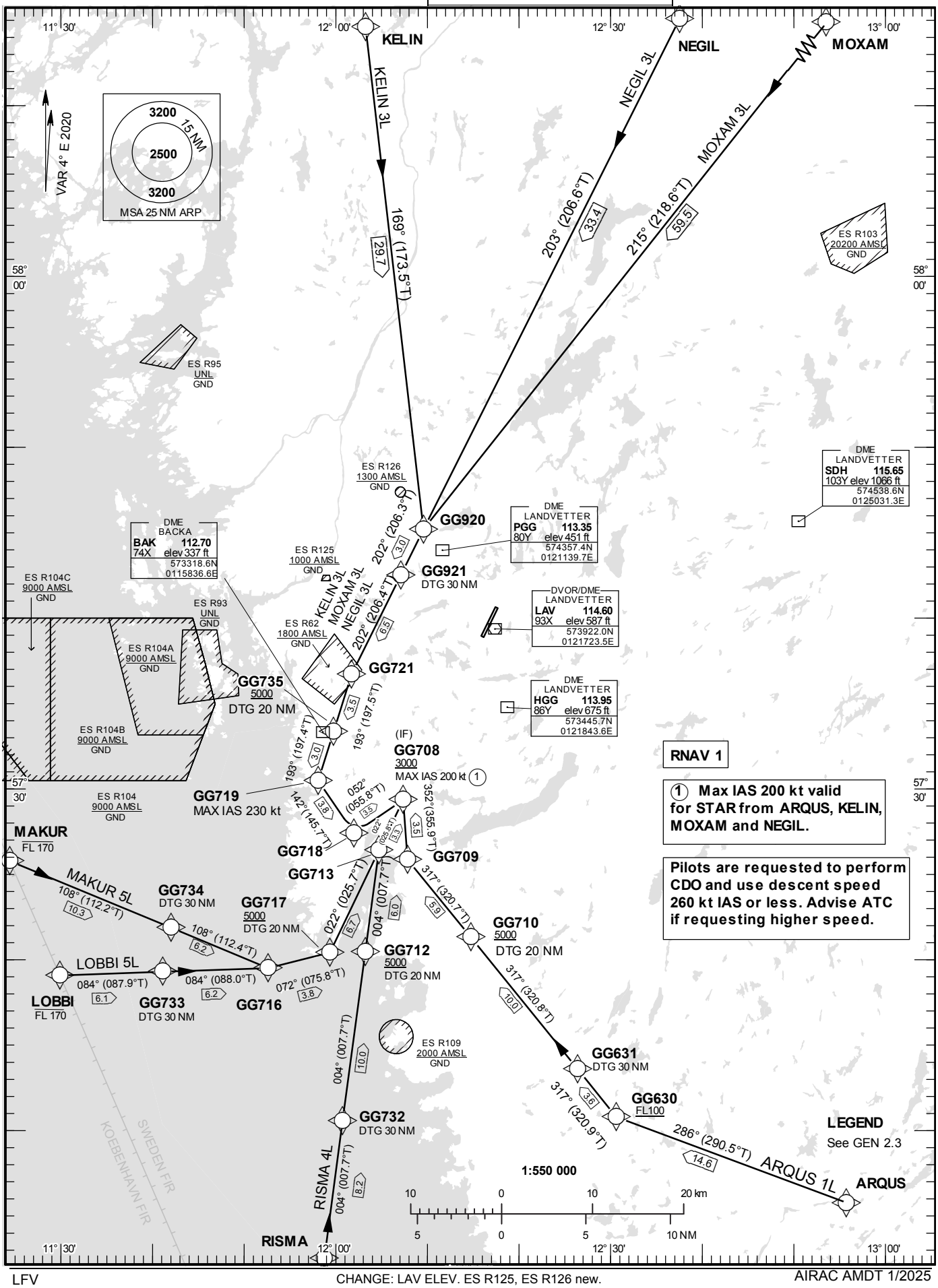
STAR instruction: MAKUR (FL170 or below) – TOMVI – radar vectors.

STANDARD INSTRUMENT ARRIVAL CHART (STAR) - ICAO

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

LANDVETTER TOWER	118.605
LANDVETTER ATIS	118.380
GÖTEBORG APPROACH	124.680

RNAV (DME/DME or GNSS) STAR RWY 03



RNAV 1

(1) Max IAS 200 kt valid for STAR from ARQUS, KELIN, MOXAM and NEGIL.

Pilots are requested to perform CDO and use descent speed 260 kt IAS or less. Advise ATC if requesting higher speed.

LEGEND
See GEN 2.3

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

REMARK

Following RNAV STARs are named CLOSED STARs leading to final approach.

RNAV STARs are based on RNAV 1.

Pilots are requested to perform CDO and use descent speed 260 kt IAS or less. Advise ATC if requesting higher speed.

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

When established on ILS final approach track, maintain 160 kt IAS or more until passing OM, unless otherwise instructed. If unable, inform ATC immediately.

In case of radio communication failure, see AD 2.22 para 4.

ARQUS 1L

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/ RDH (°/ft)	Rec Navaid	Navigation Specification
IF	ARQUS	-	-	-	-	-	-	-	-	RNAV 1
TF	GG630	-	286°(290.5°)	14.6	-	+FL100	-	-	-	RNAV 1
TF	GG631	-	317°(320.9°)	3.6	-	-	-	-	-	RNAV 1
TF	GG710	-	317°(320.8°)	10.0	-	+5000	-	-	-	RNAV 1
TF	GG709	-	317°(320.7°)	5.9	-	-	-	-	-	RNAV 1
TF	GG708	-	352°(355.9°)	3.5	-	+3000	-200	-	-	RNAV 1

STAR instruction: ARQUS – GG630 (FL100 or above) – GG631 – GG710 (5000 ft or above) – GG709 – GG708 (3000 ft or above, max IAS 200kt).

KELIN 3L

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/ RDH (°/ft)	Rec Navaid	Navigation Specification
IF	KELIN	-	-	-	-	-	-	-	-	RNAV 1
TF	GG920	-	169°(173.5°)	29.7	-	-	-	-	-	RNAV 1
TF	GG921	-	202°(206.3°)	3.0	-	-	-	-	-	RNAV 1
TF	GG721	-	202°(206.4°)	6.5	-	-	-	-	-	RNAV 1
TF	GG735	-	193°(197.5°)	3.5	-	+5000	-	-	-	RNAV 1
TF	GG719	-	193°(197.4°)	3.0	-	-	-230	-	-	RNAV 1
TF	GG718	-	142°(145.7°)	3.8	-	-	-	-	-	RNAV 1
TF	GG708	-	052°(055.8°)	3.5	-	+3000	-200	-	-	RNAV 1

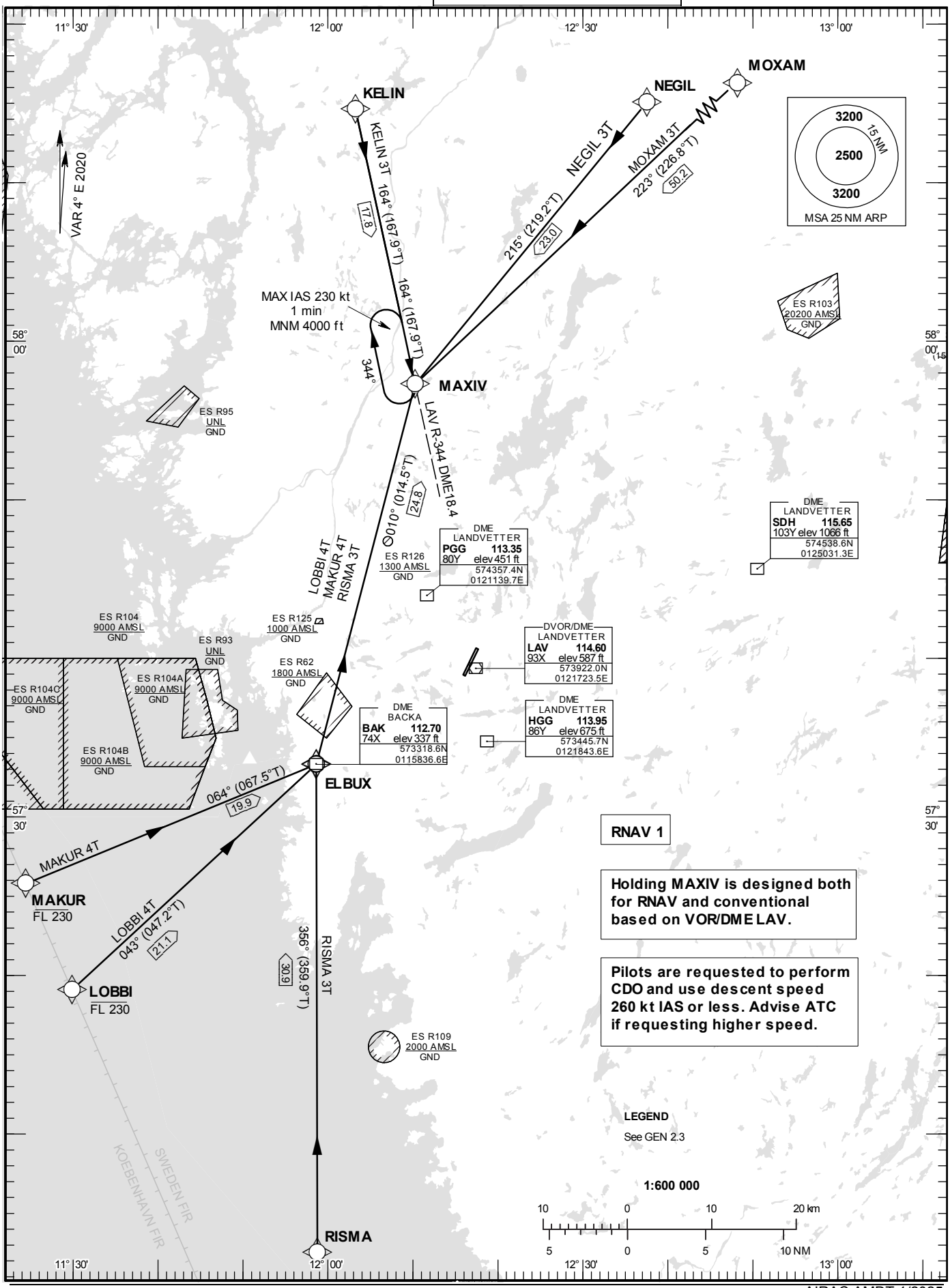
STAR instruction: KELIN – GG920 – GG921 – GG721 – GG735 (5000 ft or above) – GG719 (max IAS 230kt) – GG718 – GG708 (3000 ft or above, max IAS 200kt).

STANDARD INSTRUMENT ARRIVAL CHART (STAR) - ICAO

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

LANDVETTER TOWER	118.605
LANDVETTER ATIS	118.380
GÖTEBORG APPROACH	124.680

RNAV (DME/DME or GNSS) STAR RWY 21



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

REMARK

Following RNAV STARs are named OPEN STARs and aircraft will be radar vectored to final.

RNAV STARs are based on RNAV 1.

Operators unable flying RNAV 1 shall inform ATC by using phraseology “UNABLE RNAV STAR”. Radar vectors will then be provided.

Pilots are requested to perform CDO and use descent speed 260 kt IAS or less. Advise ATC if requesting higher speed.

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

When established on ILS final approach track, maintain 160 kt IAS or more until passing OM, unless otherwise instructed. If unable, inform ATC immediately.

In case of radio communication failure, see AD 2.22 para 4.

KELIN 3T

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/ RDH (°/ft)	Rec Navaid	Navigation Specification
IF	KELIN	-	-	-	-	-	-	-	-	RNAV 1
TF	MAXIV	-	164°(167.9°)	17.8	-	-	-	-	-	RNAV 1

STAR instruction: KELIN – MAXIV – radar vectors.

LOBBI 4T

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/ RDH (°/ft)	Rec Navaid	Navigation Specification
IF	LOBBI	-	-	-	-	-FL230	-	-	-	RNAV 1
TF	ELBUX	-	043°(047.2°)	21.1	-	-	-	-	-	RNAV 1
TF	MAXIV	-	010°(014.5°)	24.8	-	-	-	-	-	RNAV 1

STAR instruction: LOBBI (FL230 or below) – ELBUX – MAXIV – radar vectors.

MAKUR 4T

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/ RDH (°/ft)	Rec Navaid	Navigation Specification
IF	MAKUR	-	-	-	-	- FL230	-	-	-	RNAV 1
TF	ELBUX	-	064°(067.5°)	19.9	-	-	-	-	-	RNAV 1
TF	MAXIV	-	010°(014.5°)	24.8	-	-	-	-	-	RNAV 1

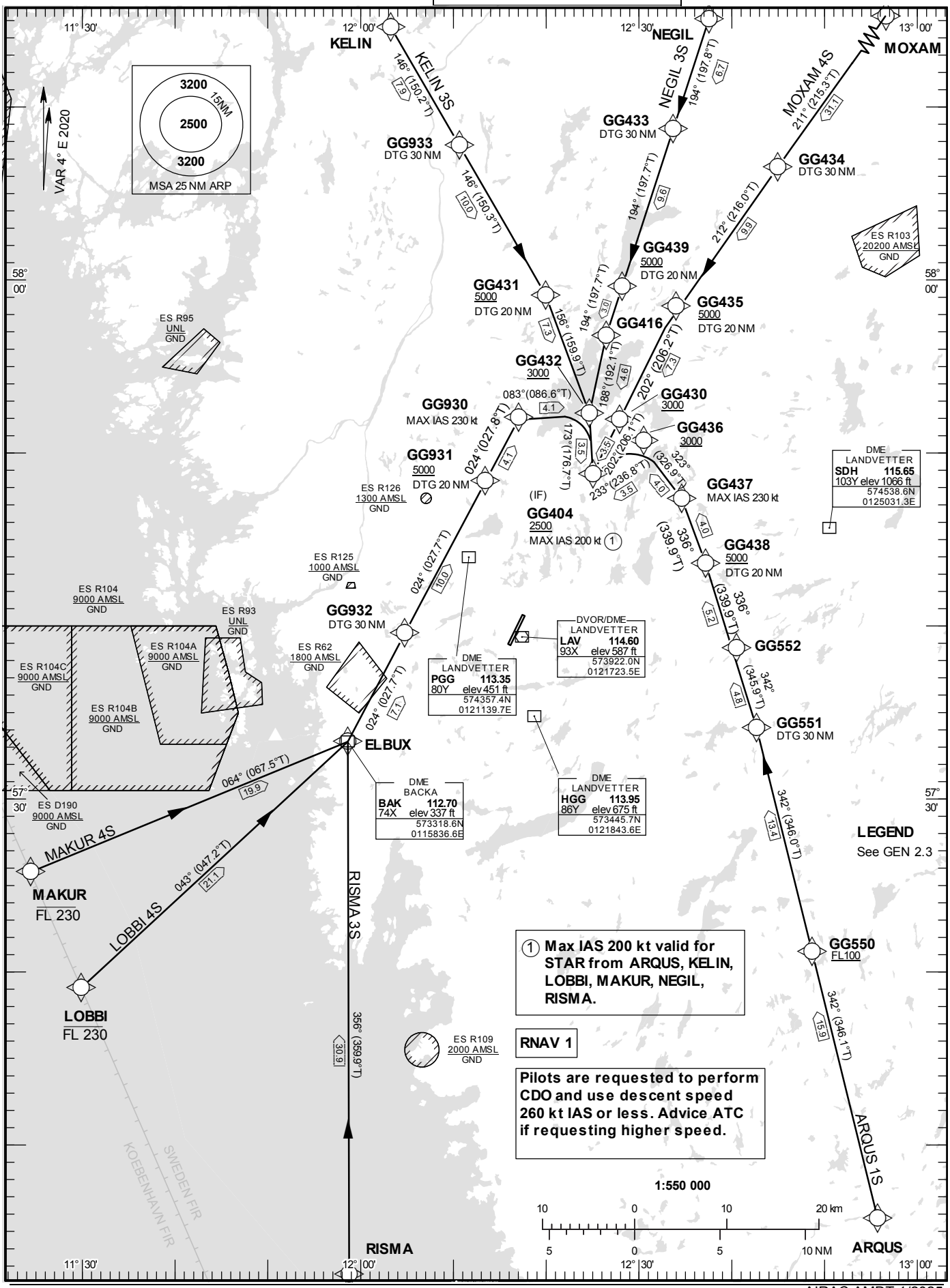
STAR instruction: MAKUR (FL230 or below) – ELBUX – MAXIV – radar vectors.

STANDARD INSTRUMENT ARRIVAL CHART (STAR) - ICAO

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

LANDVETTER TOWER	118.605
LANDVETTER ATIS	118.380
GÖTEBORG APPROACH	124.680

RNAV (DME/DME or GNSS) STAR RWY 21



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

REMARK

Following RNAV STARs are named CLOSED STARs leading to final approach.

RNAV STARs are based on RNAV 1.

Pilots are requested to perform CDO and use descent speed 260 kt IAS or less. Advise ATC if requesting higher speed.

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

When established on ILS final approach track, maintain 160 kt IAS or more until passing OM, unless otherwise instructed. If unable, inform ATC immediately.

In case of radio communication failure, see AD 2.22 para 4.

ARQUS 1S

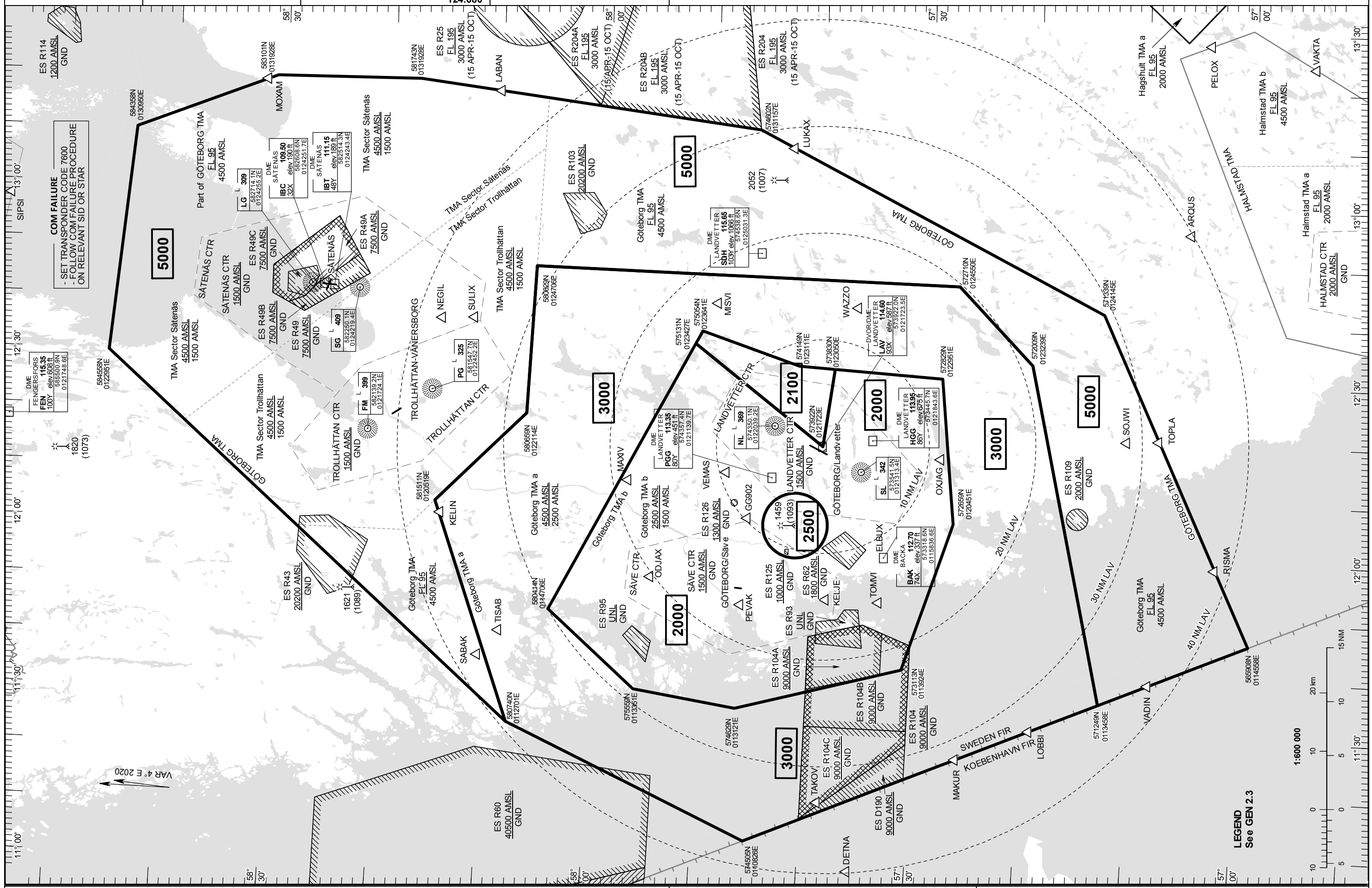
Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/ RDH (°/ft)	Rec Navaid	Navigation Specification
IF	ARQUS	-	-	-	-	-	-	-	-	RNAV 1
TF	GG550	-	342°(346.1°)	15.9	-	+FL100	-	-	-	RNAV 1
TF	GG551	-	342°(346.0°)	13.4	-	-	-	-	-	RNAV 1
TF	GG552	-	342°(345.9°)	4.8	-	-	-	-	-	RNAV 1
TF	GG438	-	336°(339.9°)	5.2	-	+5000	-	-	-	RNAV 1
TF	GG437	-	336°(339.9°)	4.0	-	-	-230	-	-	RNAV 1
TF	GG436	-	323°(326.9°)	4.0	-	+3000	-	-	-	RNAV 1
TF	GG404	-	233°(236.8°)	3.5	-	+2500	-200	-	-	RNAV 1

STAR instruction: ARQUS – GG550 (FL100 or above) – GG551 – GG552 – GG438 (5000 ft or above) – GG437 (MAX IAS 230kt) – GG436 (3000 ft or above) – GG404 (2500 ft or above, max IAS 200kt).

KELIN 3S

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/ RDH (°/ft)	Rec Navaid	Navigation Specification
IF	KELIN	-	-	-	-	-	-	-	-	RNAV 1
TF	GG933	-	146°(150.2°)	7.9	-	-	-	-	-	RNAV 1
TF	GG431	-	146°(150.3°)	10.0	-	+5000	-	-	-	RNAV 1
TF	GG432	-	156°(159.9°)	7.3	-	+3000	-	-	-	RNAV 1
TF	GG404	-	173°(176.7°)	3.5	-	+2500	-200	-	-	RNAV 1

STAR instruction: KELIN – GG933 – GG431 (5000 ft or above) – GG432 (3000 ft or above) – GG404 (2500 ft or above, max IAS 200kt).

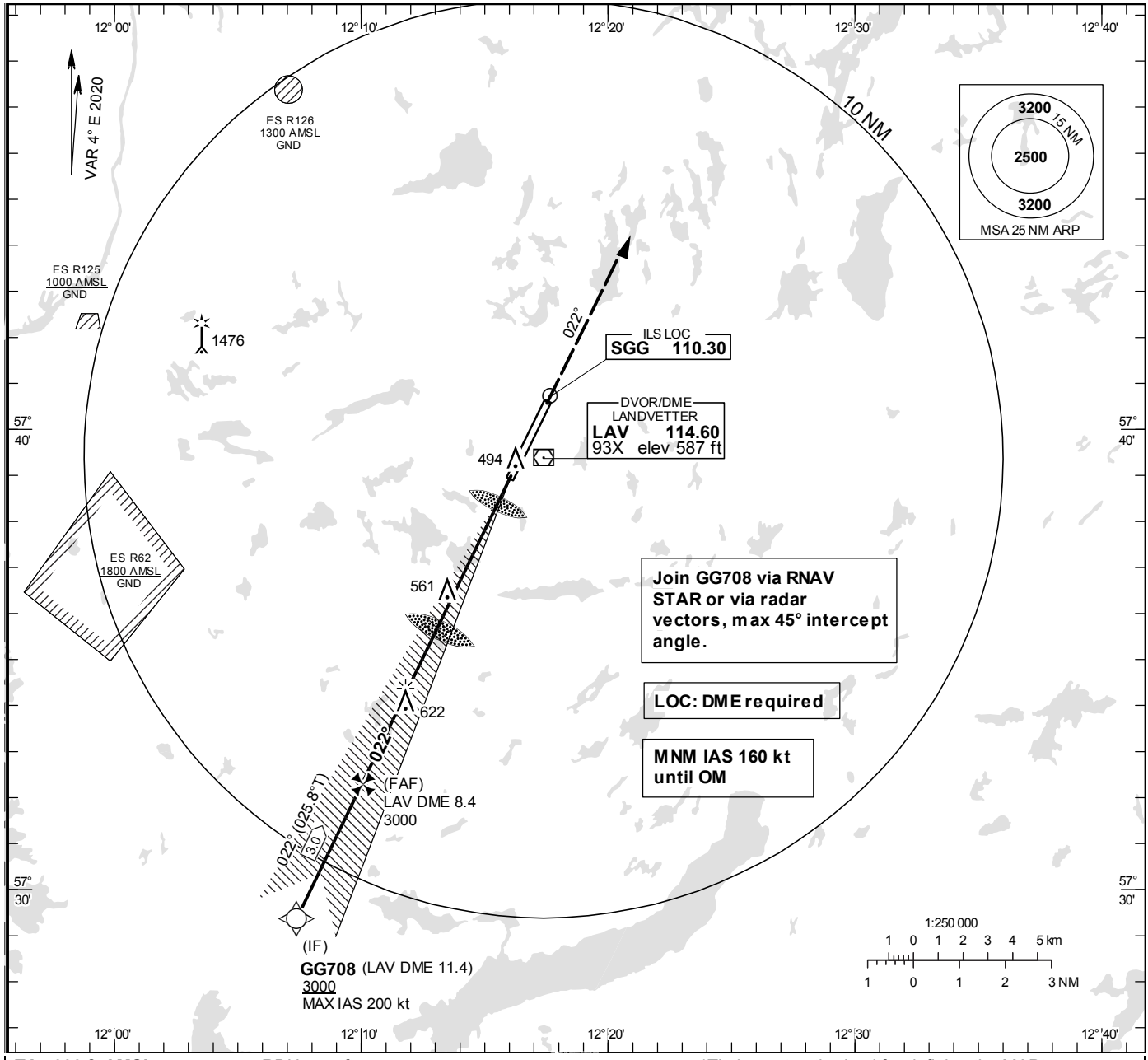

COM FAILURE
- SET TRANSPONDER CODE 7600
- FOLLOW COM FAILURE PROCEDURE ON RELEVANT SID OR STAR
ES R114 1200 AMSL GND
ES R25 FL 195 3000 AMSL (15 APR-15 OCT)
ES R204A FL 195 3000 AMSL (15 APR-15 OCT)
ES R204B FL 195 3000 AMSL (15 APR-15 OCT)
ES R204 FL 195 3000 AMSL (15 APR-15 OCT)
ES R103 20200 AMSL GND
ES R43 20200 AMSL GND
ES R60 40500 AMSL GND
ES R95 UNL GND
ES R93 UNL GND
ES R104A 9000 AMSL GND
ES R104B 9000 AMSL GND
ES R104C 9000 AMSL GND
ES R104 9000 AMSL GND
ES D190 9000 AMSL GND
ES R126 1300 AMSL GND
ES R125 1000 AMSL GND
ES R62 1800 AMSL GND
ES R49A 7500 AMSL GND
ES R49B 7500 AMSL GND
ES R49C 7500 AMSL GND
ES R49 7500 AMSL GND
ES R109 2000 AMSL GND
Part of GÖTEBORG TMA FL 95 4500 AMSL
TMA Sector Sätenäs 4500 AMSL 1500 AMSL
TMA Sector Trollhättan 4500 AMSL 1500 AMSL
Göteborg TMA FL 95 4500 AMSL
Göteborg TMA a 4500 AMSL 2500 AMSL
Göteborg TMA b 2500 AMSL 1500 AMSL
Göteborg TMA a FL 95 4500 AMSL
SÄVE CTR 1500 AMSL GND
SÄTENÄS CTR 1500 AMSL GND
TROLLHÄTTAN CTR 1500 AMSL GND
LANDVETTER CTR 1500 AMSL GND
Hagshult TMA a FL 95 2000 AMSL
Halmstad TMA b FL 95 4500 AMSL
Halmstad TMA a FL 95 2000 AMSL
HALMSTAD CTR 2000 AMSL GND
5000
3000
2100
2000
2500
SIPSI
MOXAM
LABAN
LUKAX
PELOX
VAKTA
ÅRQUS
SOJUWI
TOPLA
RISMA
VADIN
MISVI
WAZZO
MAXIV
VEMAS
OXJAG
ELBUX
TOMMI
KELJE
PEVAK
ODJAX
KELIN
TISAB
SABAK
NEGIL
SULIX
TAKOV
DETNA
MAKUR
LOBBI
SWEDEN FIR
KOEBENHAVN FIR
GÖTEBORG TMA
HALMSTAD TMA
SÄTENÄS
TROLLHÄTTAN-VÄNERSBORG
10 NM LAV
20 NM LAV
30 NM LAV
40 NM LAV
VAR 4° E 2020
1:600 000
LEGEND
See GEN 2.3

INSTRUMENT APPROACH CHART – ICAO

THR ELEV 478.3 ft, AD ELEV 507 ft
OCH are related to THR.
Circling OCH are related to AD ELEV.
BRG are MAG
ALT. HGT and ELEV in ft.

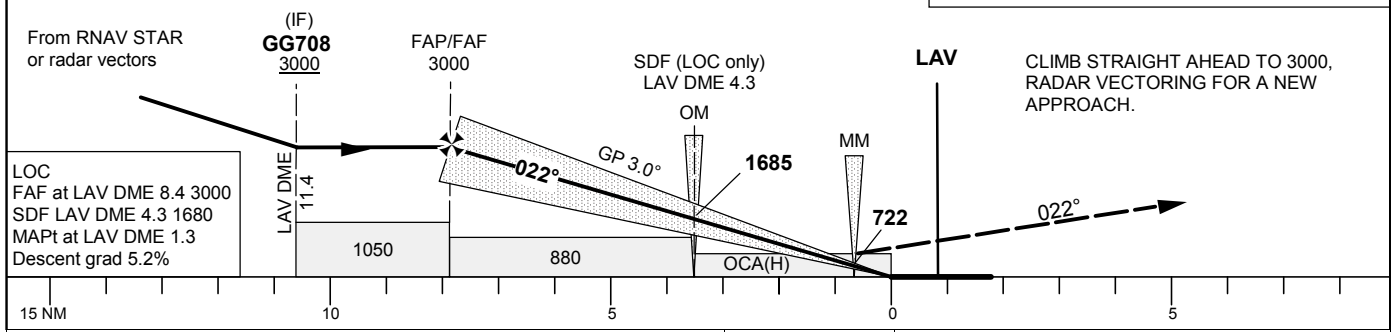
LANDVETTER TOWER	118.605
LANDVETTER ATIS	118.380
GÖTEBORG APPROACH	124.680

ILS or LOC RWY 03



TA 5000 ft AMSL RDH 55.5 ft *Timing not authorized for defining the MAPt

Special COM Failure procedures see ESGG AD 2.22



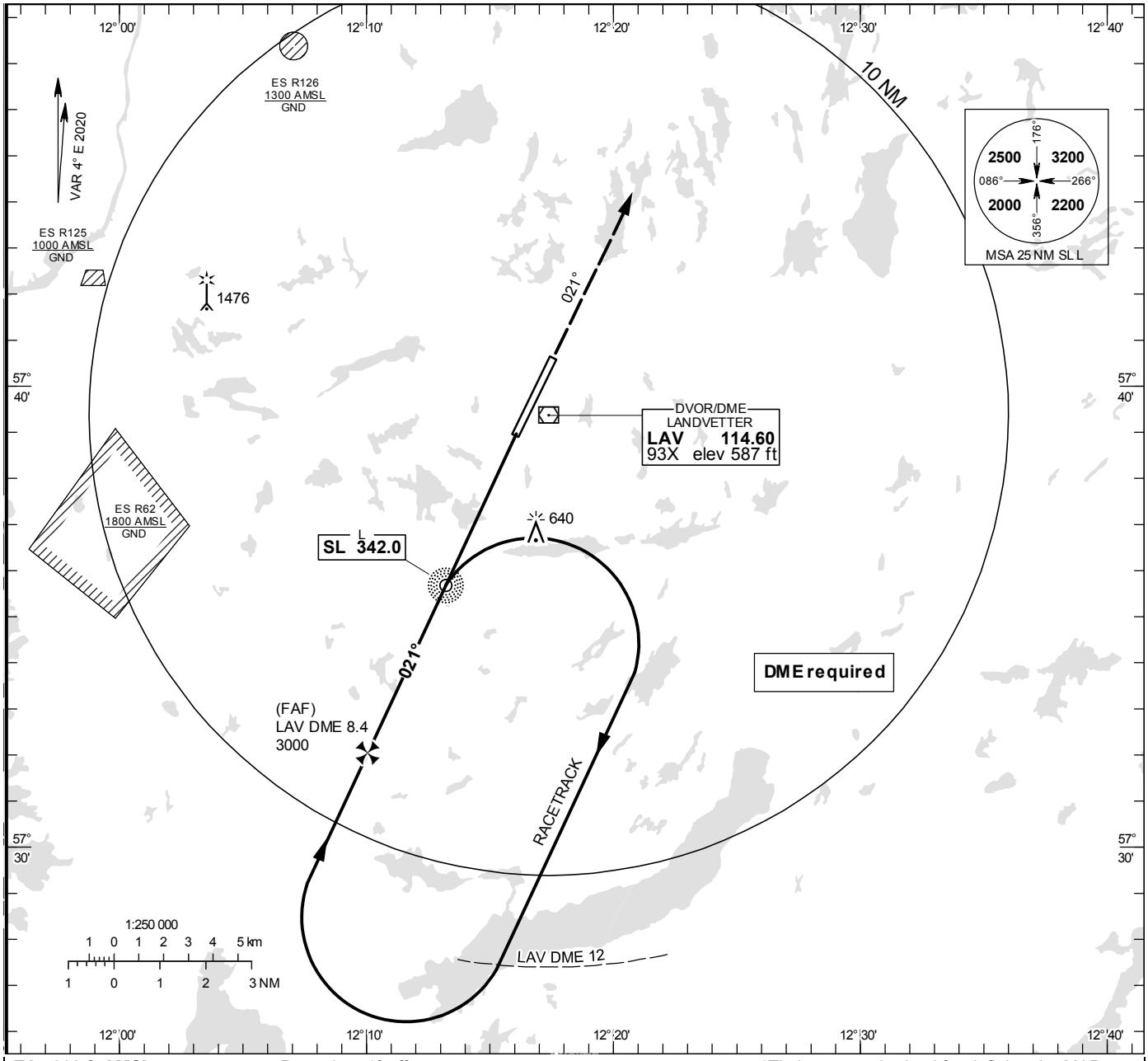
OCA (H)							Final approach		LOC Distance FAF-MAPt 7.2 NM*						
Cat of ACFT		A	B	C	D	D_L	DME LAV	NM	8	7	6	5	4	3	2
Straight-in Approach	CAT I	620(142)	629(151)	640(162)	650(172)	652(174)	ALT	ft	2862	2543	2224	1905	1584	1263	939
	CAT II	529(51)	540(62)	553(75)	565(87)	568(90)	GS	kt	80	100	120	140	160	180	
	LOC	820(350)					Time	min:s	5:24	4:19	3:36	3:05	2:42	2:24	
	CAT III B Approved						Rate of descent	ft/min	425	530	635	745	850	955	

NDB RWY 03

LANDVETTER TOWER	118.605
LANDVETTER ATIS	118.380
GÖTEBORG APPROACH	124.680

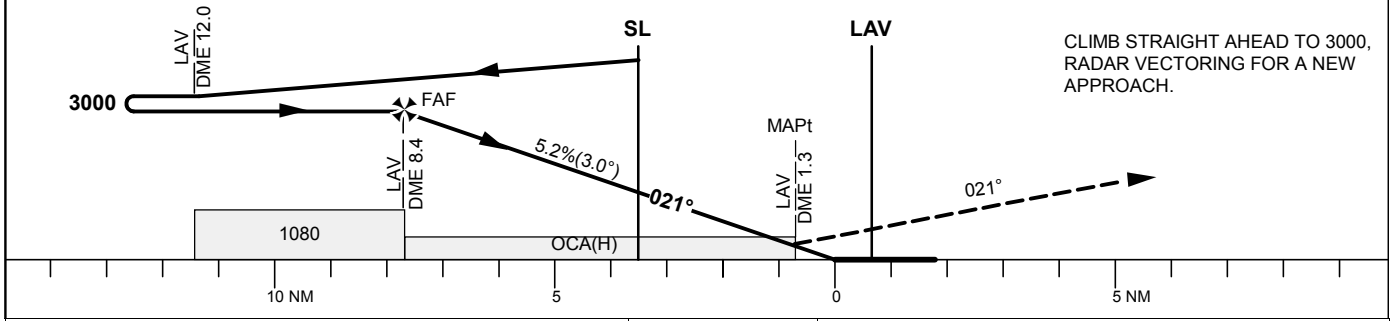
THR ELEV 478.3 ft, AD ELEV 507 ft
OCH are related to THR.
Circling OCH are related to AD ELEV.
BRG are MAG
ALT. HGT and ELEV in ft.

INSTRUMENT APPROACH CHART – ICAO



TA 5000 ft AMSL Procedure 1° offset *Timing not authorized for defining the MAPt

Special COM Failure procedures see ESGG AD 2.22



CLIMB STRAIGHT AHEAD TO 3000, RADAR VECTORING FOR A NEW APPROACH.

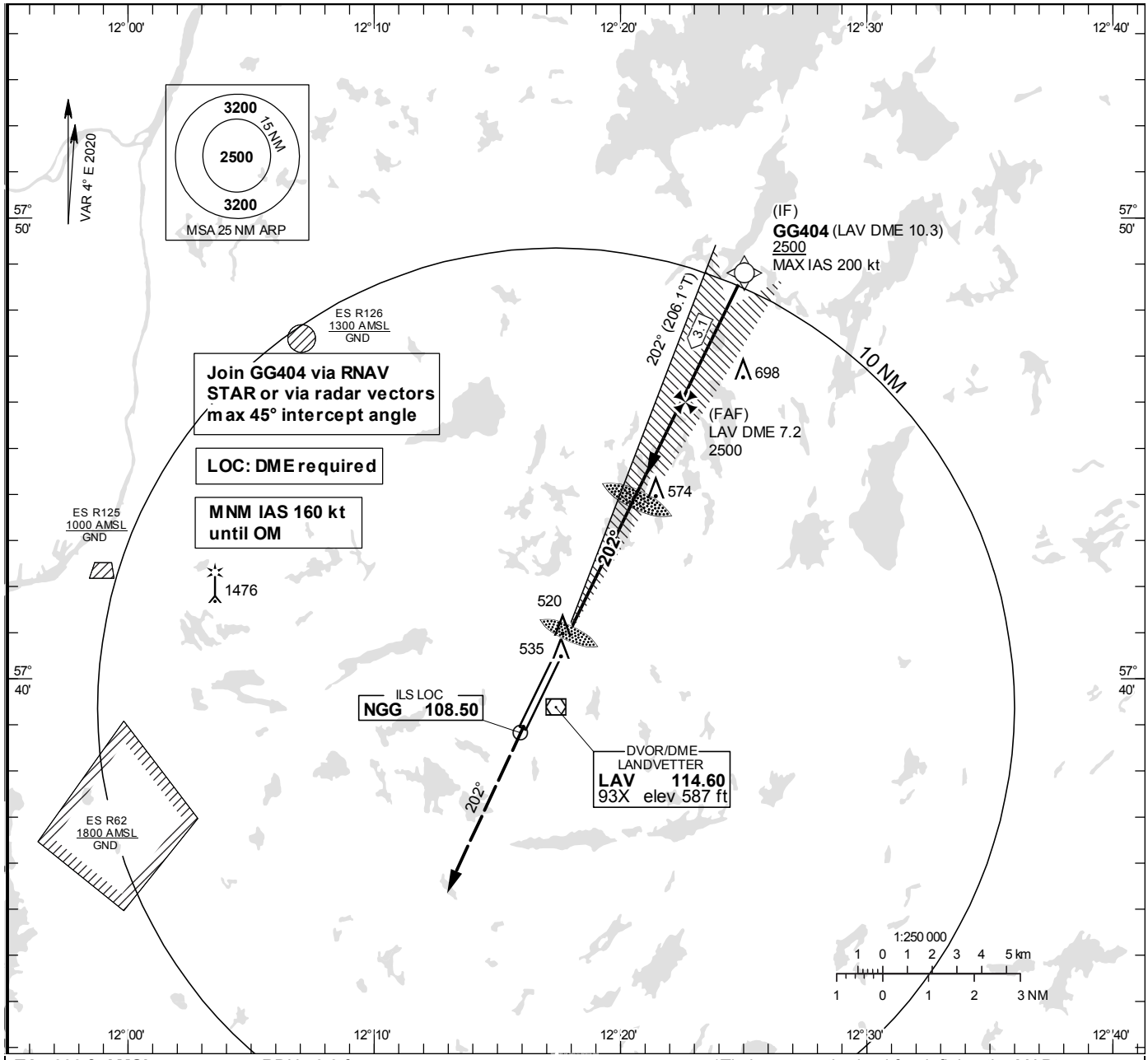
OCA (H)					Final approach		Distance FAF-MAPt 7.2 NM*						
Cat of ACFT	A	B	C	D	DME LAV	NM	8	7	6	5	4	3	2
Straight-in Approach	920(450)				ALT	ft	2861	2542	2222	1903	1582	1261	936
					GS	kt	80	100	120	140	160	180	
					Time	min:s	5:24	4:19	3:36	3:05	2:42	2:24	
					Rate of descent	ft/min	425	530	635	745	850	955	

INSTRUMENT APPROACH CHART – ICAO

THR ELEV 506.4 ft, AD ELEV 507 ft
OCH are related to THR.
Circling OCH are related to AD ELEV.
BRG are MAG
ALT. HGT and ELEV in ft.

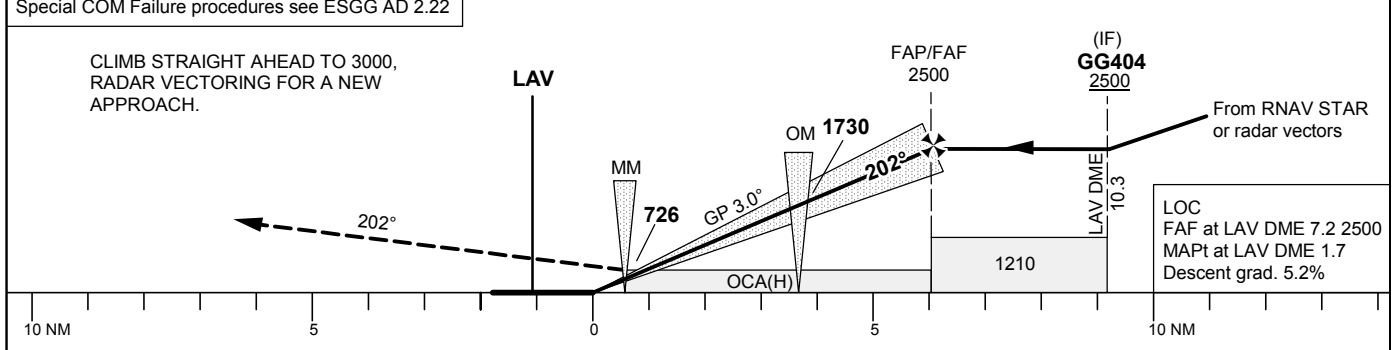
LANDVETTER TOWER	118.605
LANDVETTER ATIS	118.380
GÖTEBORG APPROACH	124.680

ILS or LOC RWY 21



TA 5000 ft AMSL RDH 49.9 ft *Timing not authorized for defining the MAPt

Special COM Failure procedures see ESGG AD 2.22



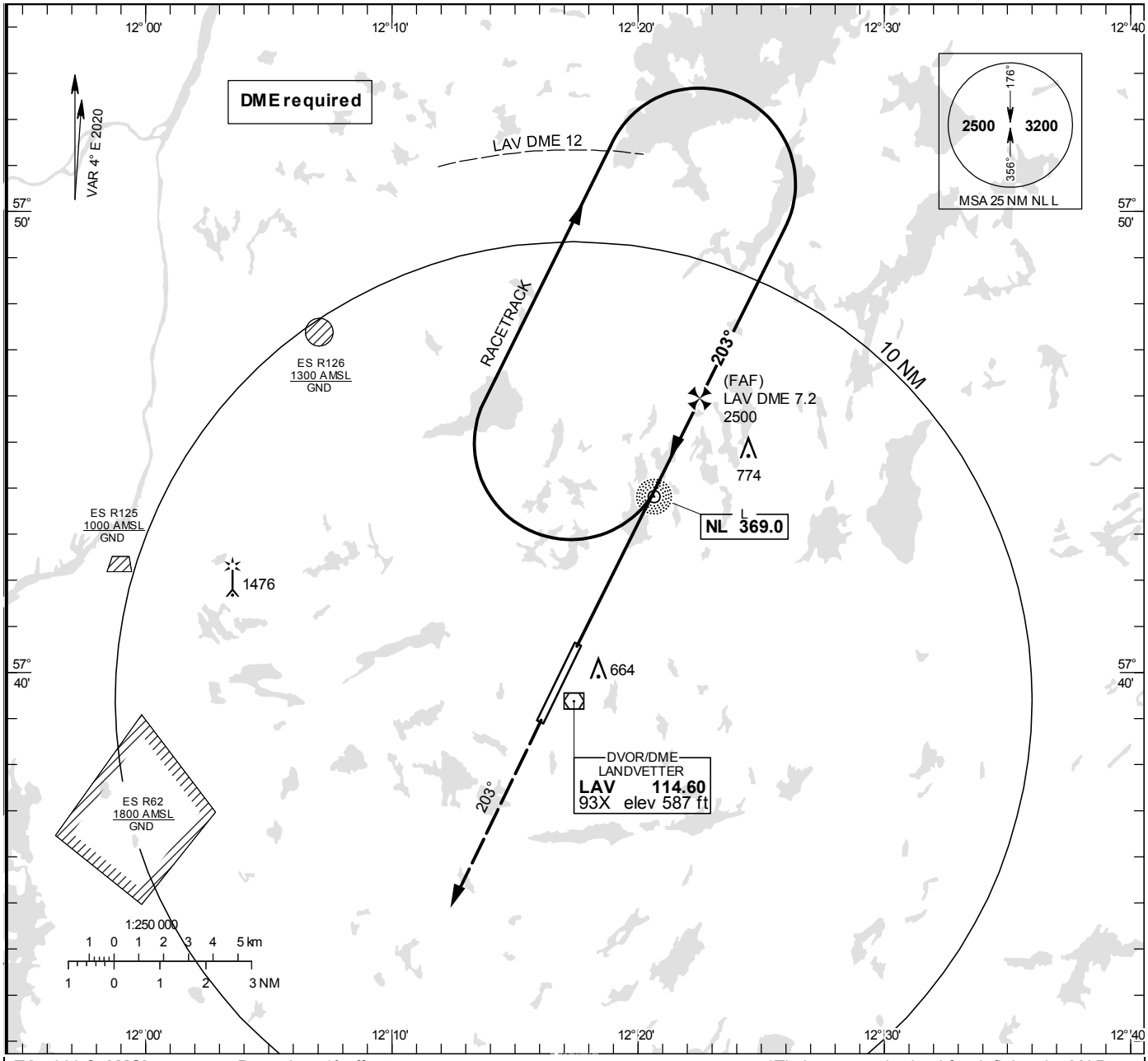
OCA (H)							Final approach		LOC Distance FAF-MAPt 5.6 NM*					
Cat of ACFT		A	B	C	D	D_L	DME LAV	NM	7	6	5	4	3	2
Straight-in Approach	CAT I	657(151)	665(159)	676(170)	685(179)	687(181)	ALT	ft	2426	2107	1787	1467	1146	821
	CAT II	563(57)	573(67)	586(80)	600(94)	603(97)	GS	kt	80	100	120	140	160	180
	LOC	830(330)					Time	min:s	4:11	3:21	2:47	2:23	2:06	1:52
	CAT III B Approved						Rate of descent	ft/min	425	530	635	745	850	955

NDB RWY 21

LANDVETTER TOWER	118.605
LANDVETTER ATIS	118.380
GÖTEBORG APPROACH	124.680

THR ELEV 506.4 ft, AD ELEV 507 ft
OCH are related to THR.
Circling OCH are related to AD ELEV.
BRG are MAG
ALT. HGT and ELEV in ft.

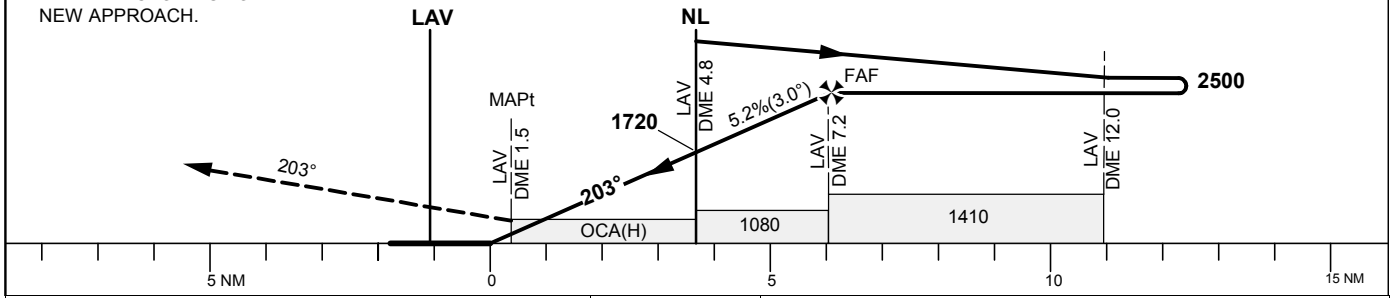
INSTRUMENT APPROACH CHART – ICAO



TA 5000 ft AMSL Procedure 1° offset *Timing not authorized for defining the MAPt

Special COM Failure procedures see ESGG AD 2.22

CLIMB STRAIGHT AHEAD TO 3000,
RADAR VECTORING FOR A
NEW APPROACH.



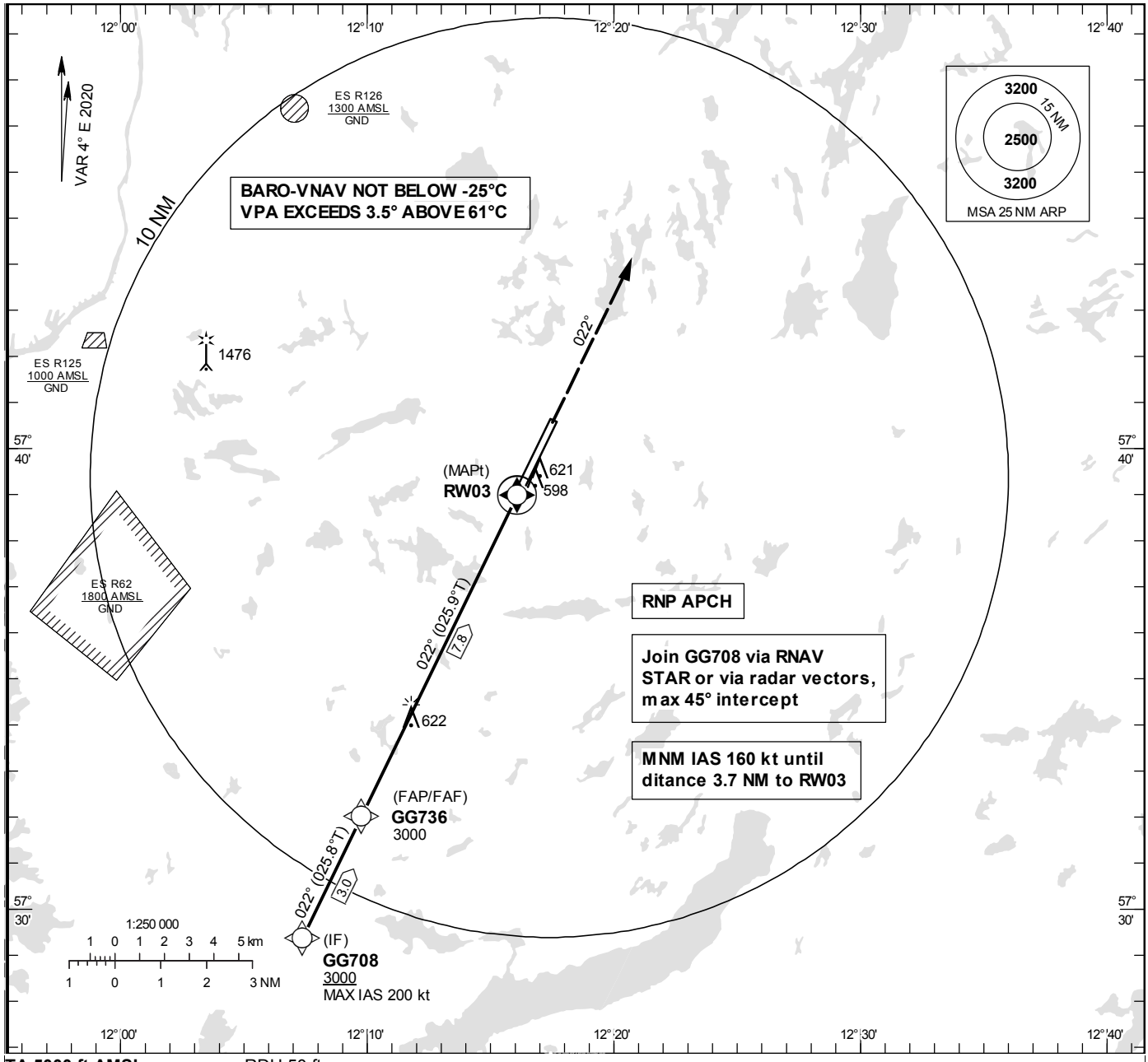
OCA (H)					Final approach	Distance FAF-MAPt 5.8 NM*						
Cat of ACFT	A	B	C	D	DME LAV	NM	7	6	5	4	3	2
Straight-in Approach	920(420)				ALT	ft	2429	2110	1790	1470	1148	823
					GS	kt	80	100	120	140	160	180
					Time	min:s	4:21	3:28	2:54	2:29	2:10	1:56
					Rate of descent	ft/min	425	530	635	745	850	955

INSTRUMENT APPROACH CHART – ICAO

THR ELEV 478.3 ft, AD ELEV 507 ft
OCH are related to THR.
BRG are MAG (True).
ALT, HGT and ELEV in ft.

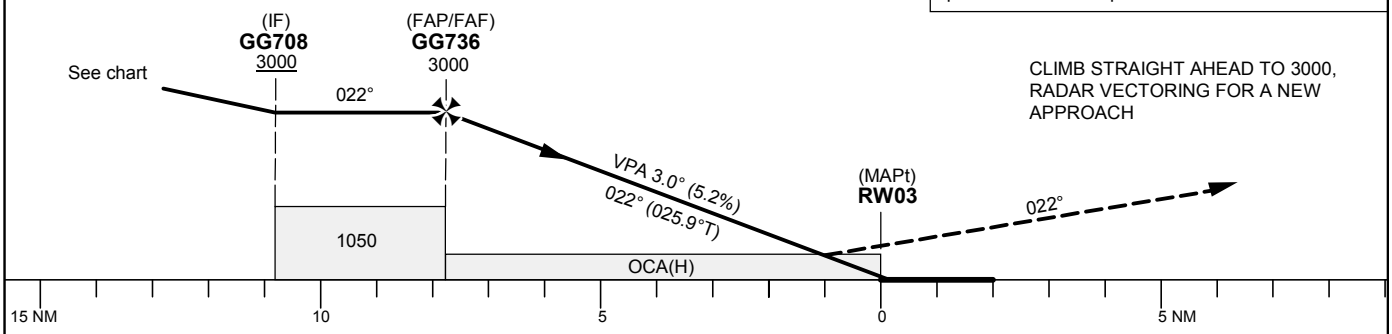
LANDVETTER TOWER	118.605
LANDVETTER ATIS	118.380
GÖTEBORG APPROACH	124.680

RNP z RWY 03



TA 5000 ft AMSL RDH 50 ft

Special COM Failure procedures see ESGG AD 2.22



OCA (H)					Final approach	Distance FAF-MAPt 7.8 NM						
Cat of ACFT	A	B	C	D	Dist to RW03	NM	7	6	5	4	3	2
LNAV/VNAV	734(256)	743(265)	748(270)	763(285)	ALT	ft	2757	2439	2120	1802	1485	1165
LNAV	880(410)				GS	kt	80	100	120	140	160	180
					Rate of descent	ft/min	425	530	635	745	850	955

RNP z RWY 03

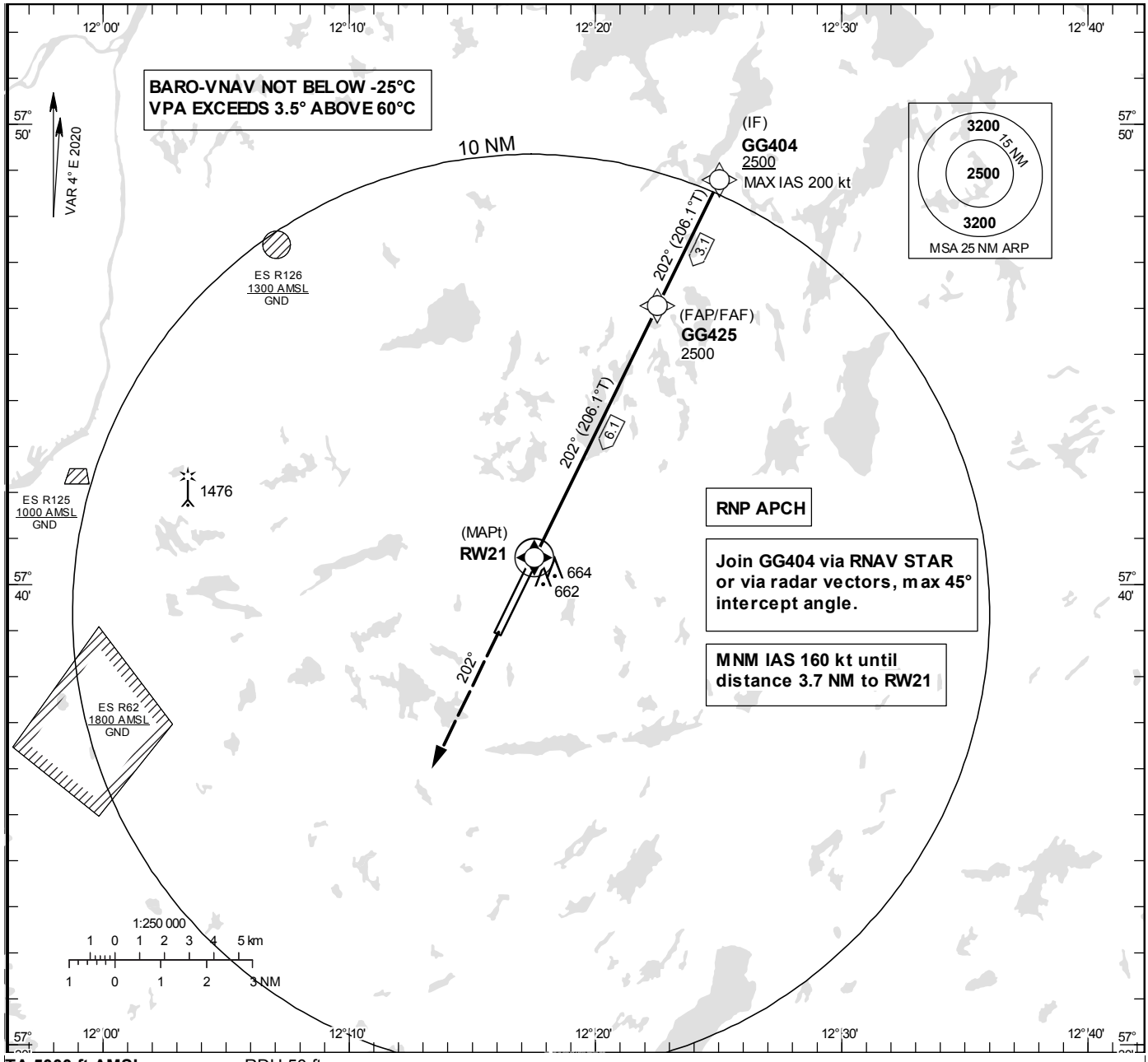
Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/ RDH (°/ft)	Rec Navaid	Navigation Specification
IF	GG708	-	-	-	-	+3000	-200	-	-	RNP APCH
TF	GG736	-	022°(025.8°)	3.0	-	@3000	-	-	-	RNP APCH
TF	RW03	Y	022°(025.9°)	7.8	-	@528	-	3.00/50	-	RNP APCH
CA	-	-	022°(025.9°)	-	-	@3000	-	-	-	RNP APCH
VM	-	-	022°	-	-	-	-	-	-	RNP APCH

INSTRUMENT APPROACH CHART – ICAO

THR ELEV 506.4 ft, AD ELEV 507 ft
OCH are related to THR.
BRG are MAG (True).
ALT, HGT and ELEV in ft.

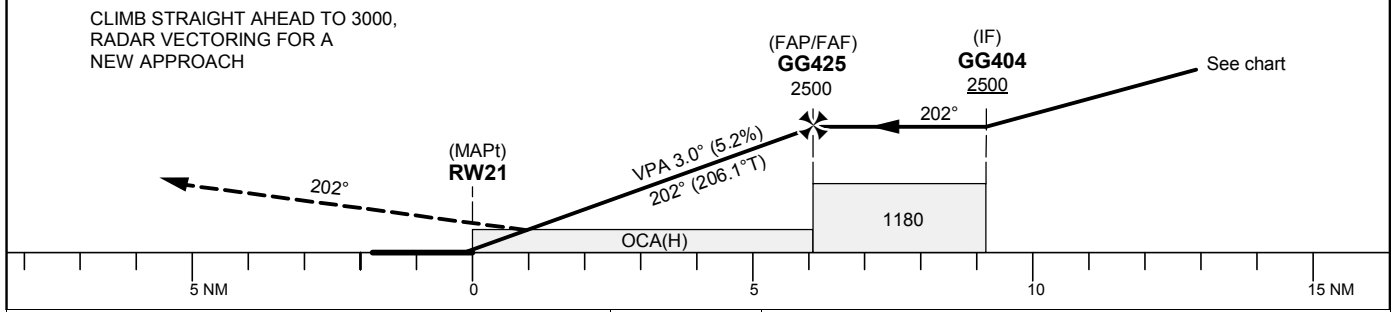
LANDVETTER TOWER	118.605
LANDVETTER ATIS	118.380
GÖTEBORG APPROACH	124.680

RNP z RWY 21



TA 5000 ft AMSL RDH 50 ft

Special COM Failure procedures see ESGG AD 2.22



OCA (H)					Final approach	Distance FAF-MAPt 6.1 NM						
Cat of ACFT	A	B	C	D	Dist to RW21	NM	6	5	4	3	2	
LNAV/VNAV	770(264)	780(274)	801(295)	818(312)	ALT	ft	2467	2149	1830	1512	1193	
LNAV	900(400)				GS	kt	80	100	120	140	160	180
					Rate of descent	ft/min	425	530	635	745	850	955

RNP z RWY 21

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/ RDH (°/ft)	Rec Navaid	Navigation Specification
IF	GG404	-	-	-	-	+2500	-200	-	-	RNP APCH
TF	GG425	-	202°(206.1°)	3.1	-	@2500	-	-	-	RNP APCH
TF	RW21	Y	202° (206.1°)	6.1	-	@556	-	3.00/50	-	RNP APCH
CA	-	-	202° (206.1°)	-	-	@3000	-	-	-	RNP APCH
VM	-	-	202°	-	-	-	-	-	-	RNP APCH

VISUAL APPROACH CHART - ICAO

1:250000

1 0 1 2 3 4 5 km

1 0 1 2 3 NM

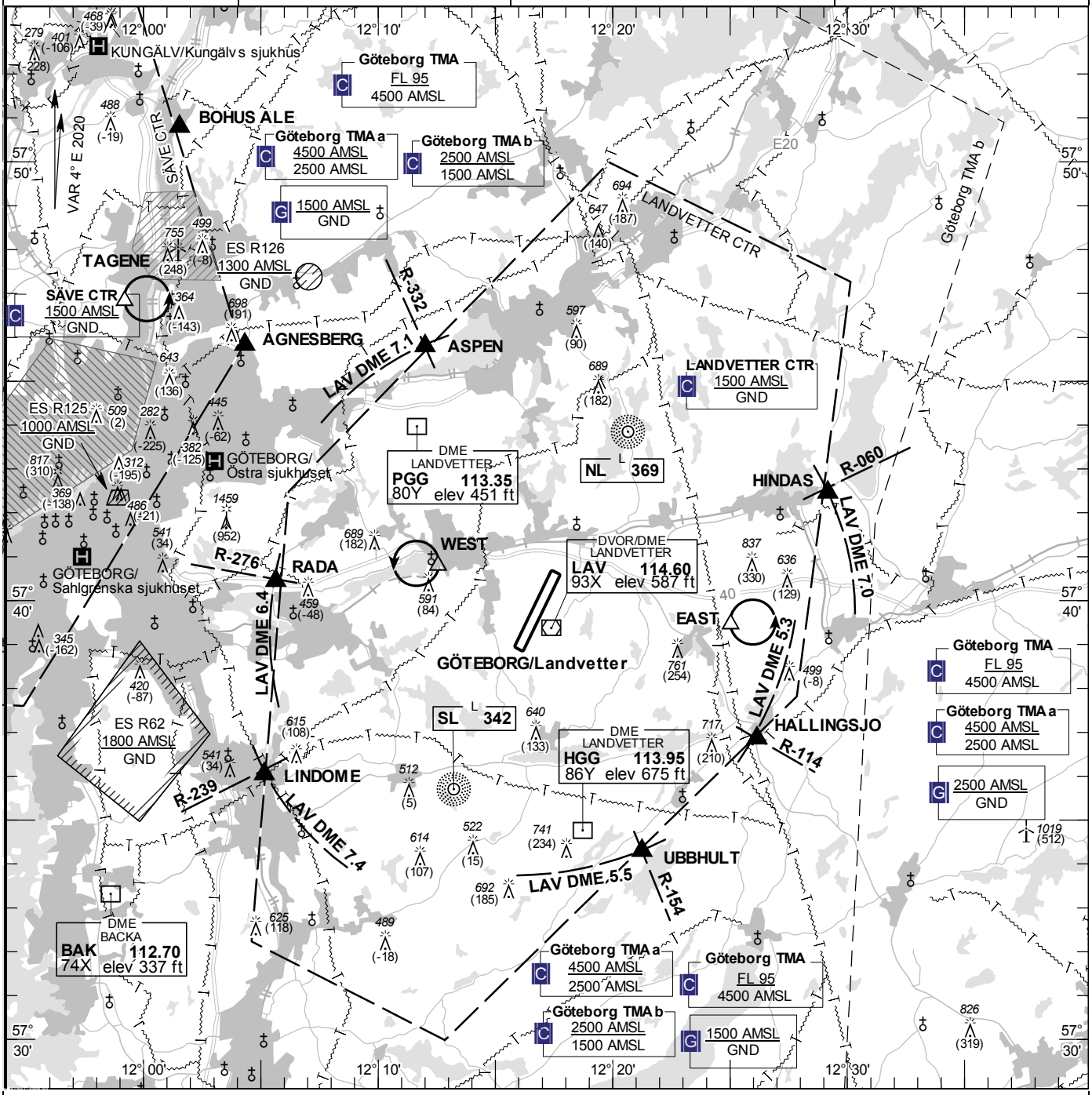
AD ELEV 507 FEET

ELEV and ALT in ft
HGT in ft above AD ELEV

TA 5000 AMSL

LANDVETTER TOWER	**118.605**
	123.100
LANDVETTER GROUND	**121.905**
CLR DELIVERY	**121.680**
LANDVETTER ATIS	**118.380**
	114.600

GÖTEBORG/Landvetter SWEDEN



Communication failure

Aircraft outside CTR, having received no clearance to enter, should land at an aerodrome outside CTR. If no suitable aerodrome is within reach:

1 SQUAWK 7600 and blind transmit intentions.
2 Enter CTR via RADA at or below 1500 ft AMSL and proceeed to Holding WEST.
3 Hold as published and stand by for light signals from TWR.

Remark

Obstacle below 197 ft AGL not shown in CTR.

RWY NR	THR ELEV	PAPI (MEHT)
03	478.3 ft	Left/3.00° (59 ft)
21	506.4 ft	Left/3.00° (56 ft)

Legend

See GEN 2.3

Entry / exit point

ASPEN	574547N 0121200E
HINDAS	574227N 0122910E
HALLINGSJO	573651N 0122609E
UBBHULT	573417N 0122115E
LINDOME	573602N 0120509E
RADA	574026N 0120538E

Holding

EAST: Hold south of road 40 and east of power line, east of point 573927N 0122502E

WEST: Hold west of LANDVETTER church, west of point 574047N 0121232E

AD 2 AERODROMES

ESGP 2.1 AERODROME LOCATION INDICATOR AND NAME

ESGP – GÖTEBORG/SÄVE

ESGP 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	ARP coordinates and site at AD	574632N 0115214E RWY 275 m from THR 01
2.	Direction and distance from (city)	NW 5.0 NM from Göteborg
3.	Elevation/Reference temperature	59 ft/+18.5°C
4.	Geoid undulation at AD ELEV PSN	118 ft
5.	MAG VAR/Annual change	4° E 2020/+0.2 increasing
6.	Administration, address, telephone, fax, AFS	Säve Flygplatsdrift AB Säve Flygplatsväg 28 423 73 Säve TEL: +46 (0)31 744 09 09 E-mail: op.save@castellum.se AFS: - Website: www.saveflygplats.com
7.	Types of traffic permitted (IFR/VFR)	VFR. Max RWY ref code 2C
8.	Remarks	-

ESGP 2.3 OPERATIONAL HOURS

1.	AD Administration AD Operating hours	MON-FRI 0700-1700 (0600-1600) As ATS
2.	Customs and immigration	-
3.	Health and sanitation	-
4.	AIS Briefing Office	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
5.	ATS Reporting Office (ARO)	As ATS
6.	MET Briefing Office	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
7.	ATS	Ref AIP SUP/NOTAM
8.	Fuelling	Jet A1 self service and 100LL self service: As ATS
9.	Handling	O/R
10.	Security	-
11.	De-Icing	-
12.	Remarks	-

ESGP 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 100LL: 20 000 l
4.	De-icing facilities	-
5.	Hangar space for visiting acft	O/R
6.	Repair facilities for visiting acft	Limited
7.	Remarks	For payment of fuel: Hjelmco Oil card, VISA or Mastercard.

ESGP 2.5 PASSENGER FACILITIES

1.	Hotels	In Göteborg
2.	Restaurants	At AD
3.	Transportation	Local buses, taxi O/R
4.	Medical facilities	In Göteborg
5.	Bank and Post Office	In Göteborg
6.	Tourist Office	In Göteborg
7.	Remarks	-

ESGP 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	Not available
2.	Rescue equipment	-
3.	Capability for removal of disabled aircraft	-
4.	Remarks	-

ESGP 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	Ploughs
2.	Clearance priorities	FATO, Apron, TWY, RWY
3.	Remarks	No measuring of BA. No actions will be taken to improve BA.

VISUAL APPROACH CHART - ICAO

1:250000

1 0 1 2 3 4 5 km

1 0 1 2 3 NM

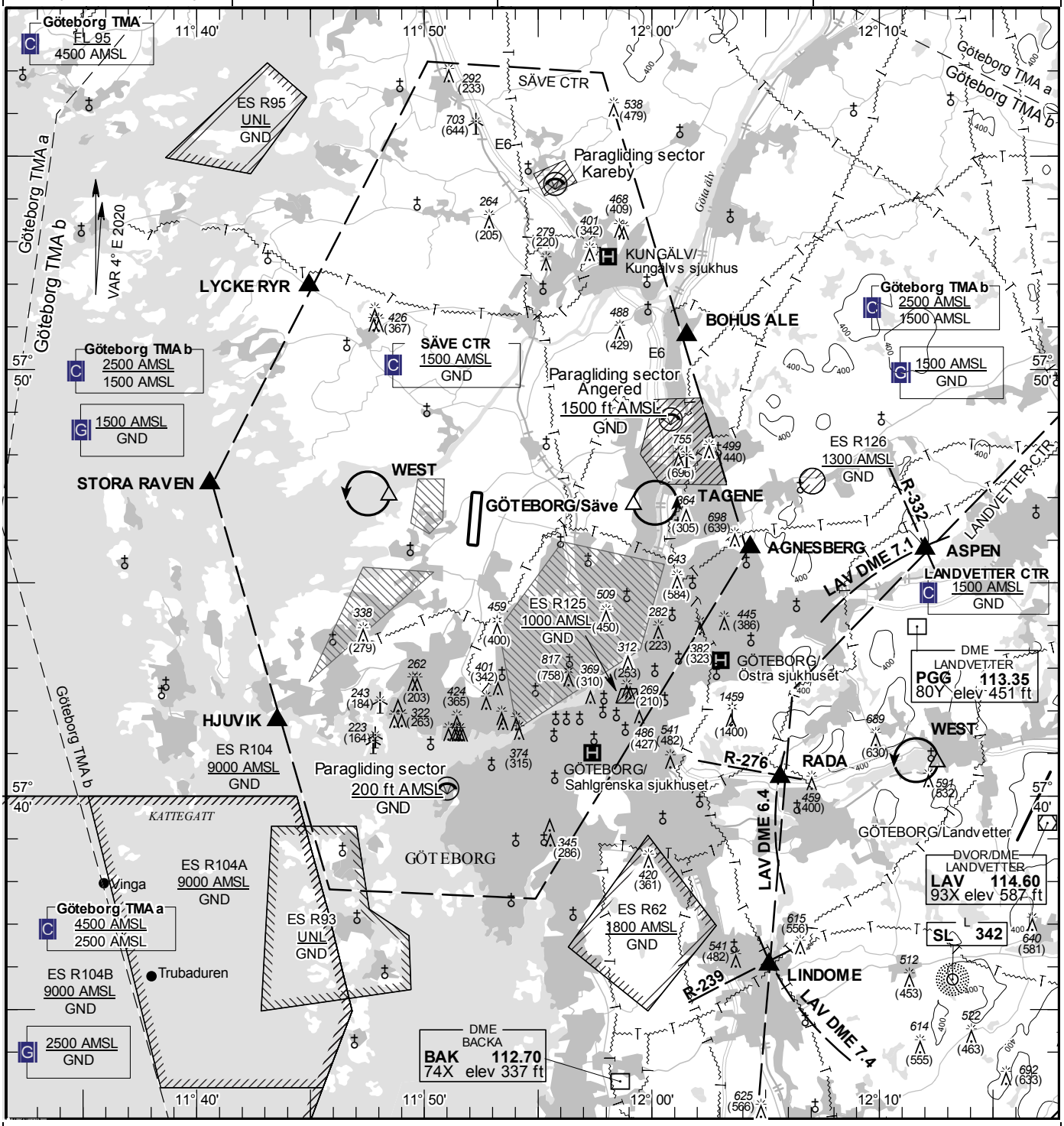
AD ELEV 59 FEET

ELEV and ALT in ft
HGT in ft above AD ELEV

TA 5000 AMSL

SÄVE TOWER **119.055**

GÖTEBORG/Säve SWEDEN



Communication failure

1 SQUAWK 7600
2 Enter CTR via AGNESBERG - Holding TAGENE or via STORA RAVEN – Holding WEST at or below 1500 ft AMSL to join traffic circuit.
Transmit blind your intentions.
3 Flash LDG-lights and watch TWR for optical signals.

Remark

Obstacle below 197 ft AGL not shown in CTR.
Noise sensitive area, to be avoided.

RWY NR	THR ELEV	PAPI (MEHT)
01	51 ft	NIL
19	48 ft	NIL

Legend

See GEN 2.3

Entry / exit point

LYCKE RYR	575157N 0114456E
BOHUS ALE	575047N 0120132E
AGNESBERG	574549N 0120419E
HJUVIK	574146N 0114332E
STORA RAVEN	574719N 0114034E

Holding

TAGENE: Hold over gravel pit east of point 574649N 0115912E

WEST: Hold west of Nolvik over the sea, west of point 574702N 0114826E

ESOH 2.22 FLYGPROCEDURER

1. Startprocedurer, omnidirectional

FLIGHT PROCEDURES

1. Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
18	Climb straight ahead with MNM 230 ft/NM (3.8%) to MNM turning ALT 1300 ft. Continue climb to appropriate MSA.	Tree	778	167°/4650
36	Climb straight ahead with MNM 310 ft/NM (5.0%) to MNM turning ALT 1400 ft.	Tree (CIO)	1086	015°/6150

2. Lägsta RVR för avgående trafik är 550 m.

2. Minimum RVR for departing traffic is 550 m.

ESOH 2.23 ÖVRIG INFORMATION

1. Nya flygoperatörer vid Hagfors flygplats med luftfartyg tillhörande referenskodsiffra 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.

2. Undantag från krav i CS ADR-DSN för flygplats-referenskod 3C:
- Delar av stråket uppfyller inte krav på stråkbredd
- Det finns fasta föremål på stråket
- Det finns hinder i den koniska ytan, horisontella ytan, inflygningsytan, start- och stigytan, övergångsytorna och stråkytorna

3. Nedsvep kan förekomma på final RWY 36.
Risk för turbulens på kort final RWY 36.

4. Var uppmärksam på fåglar i anslutning till RWY 18/36.

5. Vändytor bana 18/36 stängda för all trafik.

ADDITIONAL INFORMATION

1. New operators at Hagfors 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.

2. 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
- There are objects on the runway strip, which do not fulfil the requirement
- There are obstacles penetrating the conical surface, horizontal surface, approach surface, take-off- and climb surface, transitional surfaces and strip surface

3. Downdraught may occur on final RWY 36.
Risk for turbulence on short final RWY 36.

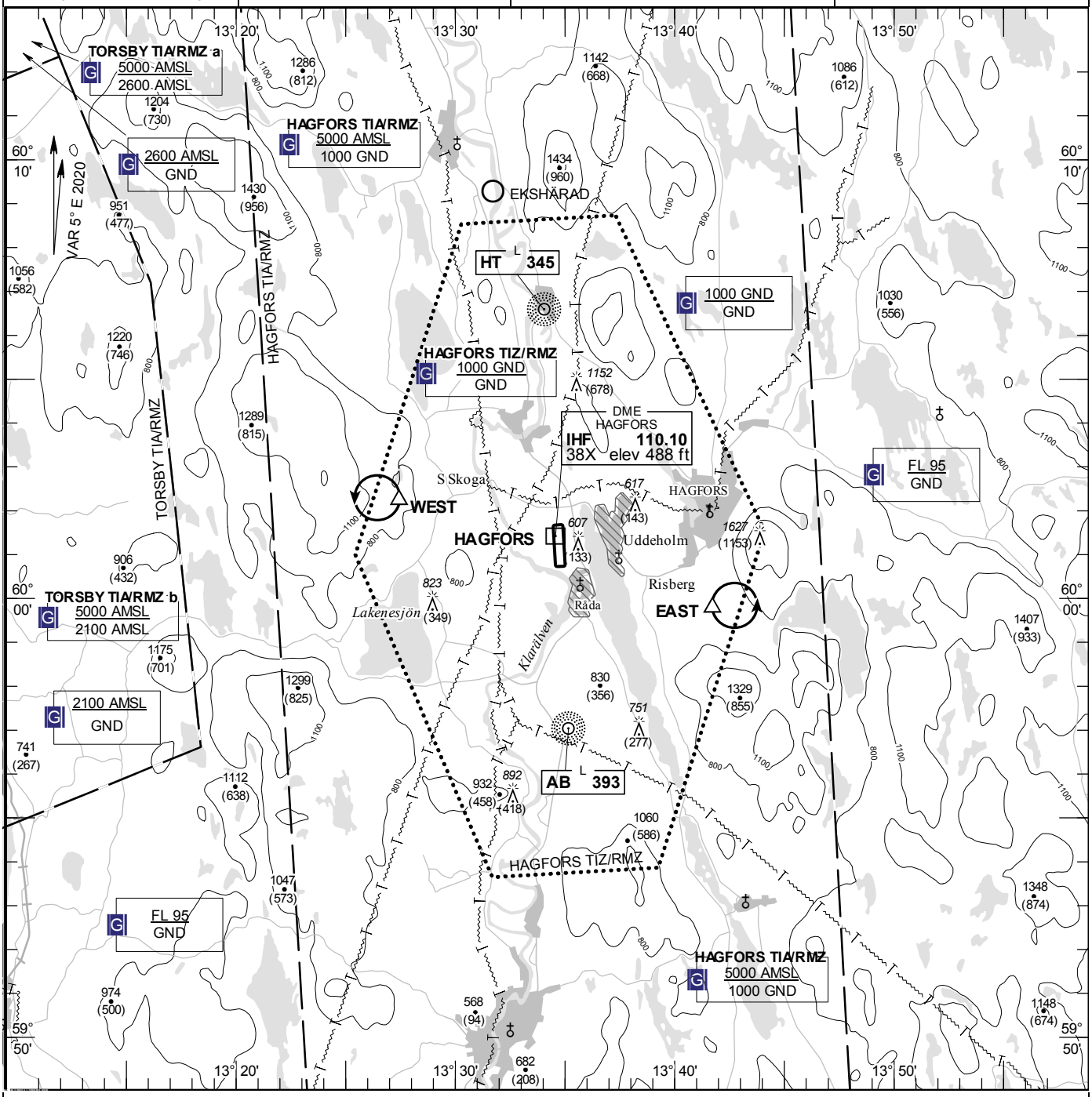
4. Caution advised, concentration of birds RWY 18/36.

5. Turning bay RWY 18/36 closed for all trafic.

ESOH 2.24 TILLHÖRANDE KARTOR

RELATED CHARTS

AD Chart		ESOH 2-1
AOC	RWY 18/36	ESOH-3-1
List of waypoints and significant points		ESOH 4-3
IAC	ILS or LOC RWY 18	ESOH 5-1
IAC	NDB RWY 18 (Cat A/B)	ESOH 5-2
IAC	NDB RWY 36 (Cat A/B)	ESOH 5-3
IAC	RNP RWY 36	ESOH 5-5
IAC	RNP RWY 18 (LPV, LNAV only)	ESOH 5-9
VAC		ESOH 6-1



Communication failure
NIL

Remark
Note: Overflight of Råda (SE end RWY 18) and Uddeholm should be avoided.

RWY NR	THR ELEV	PAPI (MEHT)
18	474.3 ft	Left/3.00° (50 ft)
36	469 ft	Left/3.00° (22 ft)

Legend
See GEN 2.3

Entry / exit point
NIL

Holding

EAST: Hold south of Hagfors and east of Risberg, east of point 595947N 0134144E

WEST: Hold north of lake Lakenesjön and west of road intersection at Södra Skoga, west of point 600216N 0132727E

AD 2 AERODROMES

ESMV 2.1 AERODROME LOCATION INDICATOR AND NAME

ESMV – HAGSHULT

ESMV 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	ARP coordinates and site at AD	571732N 0140813E RWY centre point
2.	Direction and distance from (city)	NNE 7 NM from Värnamo
3.	Elevation/Reference temperature	556 ft/info not avbl
4.	Geoid undulation at AD ELEV PSN	109 ft
5.	MAG VAR/Annual change	6° E 2020/+0.2 increasing
6.	Administration, address, telephone, fax, AFS	MIL AD: FM/Swedish Armed Forces Bastroppen Box 305 331 01 Värnamo TEL: +46 (0)370 200 25 (Base unit) +46 (0)457 47 10 00 (F17) E-mail: f17@mil.se AFS: ESMVZTZX
7.	Types of traffic permitted (IFR/VFR)	VFR.
8.	Remarks	PPR for all traffic. Contact Airport manager TEL +46 (0)457 47 10 00 exch. E-mail: f17-flygplatschefen@mil.se

ESMV 2.3 OPERATIONAL HOURS

1.	AD Administration AD Operating hours	- PPR
2.	Customs and immigration	-
3.	Health and sanitation	-
4.	AIS Briefing Office	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
5.	ATS Reporting Office (ARO)	-
6.	MET Briefing Office	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
7.	ATS	Ref AIP SUP/NOTAM
8.	Fuelling	-
9.	Handling	-
10.	Security	-
11.	De-Icing	-
12.	Remarks	Established at times announced on NOTAM.

ESMV 2.4 HANDLING SERVICES AND FACILITIES

1.	Cargo-handling facilities	-
2.	Fuel/oil types	Fuel - Oil -
3.	Fuelling facilities/discharge capacity	-
4.	De-icing facilities	-
5.	Hangar space for visiting ACFT	-
6.	Repair facilities for visiting ACFT	-
7.	Remarks	-

ESMV 2.5 PASSENGER FACILITIES

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

ESMV 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	CAT 6
2.	Rescue equipment	-
3.	Capability for removal of disabled aircraft	-
4.	Remarks	-

ESMV 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	MIL standard
2.	Clearance priorities	-
3.	Remarks	RWY de-iced with UREA

ESMV 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	Apron surface and strength	Apron 3 CONC+ASPH PCN - Apron 5 ASPH PCN -
2.	Taxiway width, surface and strength	-
3.	ACL, location and elevation	-
4.	VOR checkpoints	-
5.	INS checkpoints	-
6.	Remarks	-

ESMV 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 04/22:	Designator, THR, TDZ, CL and edges are day marked. RTHL, REDL, RENL.
		TWY -	
3.	Stop bars	-	
4.	Remarks	-	

ESMV 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					

ESMV 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	CIV 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	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	HAGSHULT APP HAGSHULT TWR
10.	Additional information (limitation of service, etc.)	Above info applicable to civil operations. MIL WX HX

ESMV 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
04	043.20° GEO 037° MAG	2020 x 40	PCN - ASPH	571709.13N 0140732.94E GUND 109 ft	THR 556 ft
22	223.20° GEO 217° MAG	2020 x 40	PCN - ASPH	571756.69N 0140855.55E GUND 109 ft	THR 555 ft

Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
04	-	-	-	-	-
22	-	-	-	-	Arresting net beyond THR 04.

ESMV 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
04	2050	2050	2050	2050	-
22	2050	2050	2050	2050	-

ESMV 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
04	-	Green	PAPI Left/2.86°	-	-	2050/60 m White Caution zone 600 m yellow LIL/LIH	Red	-
22	MIL LGT 450 m LIL/LIH	Green	PAPI Left/2.86°	-	-	2050/60 m White Caution zone 600 m yellow LIL/LIH	Red	-

10 Remarks:	RWY 22:	EFAS

ESMV 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	- -
3.	TWY edge and centre line lighting	Edge: - CL: -
4.	Secondary power supply/switch-over time	Available/15 sec
5.	Remarks	-

ESMV 2.16 HELICOPTER LANDING AREA

RWY

ESMV 2.17 ATS AIRSPACE

1.	Designation and lateral limits	HAGSHULT CTR	572532N 0141114E - 571943N 0142242E - 570926N 0140508E - 571517N 0135327E - 572314N 0140138E - 572532N 0141114E
2.	Vertical limits	HAGSHULT CTR	2000 ft AMSL GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	HAGSHULT TOWER Swedish/English	
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	CTR is established during hours of TWR, times announced on NOTAM.	

ESMV 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	HAGSHULT TOWER	136.250	HX	VDF
		121.500	HX	-
APP	HAGSHULT APPROACH	121.150	HX	-
		132.250	HX	VDF By directive from ATS.
PAR	HAGSHULT PRECISION	125.800	HX	MIL operations only.

ESMV 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
-						

ESMV 2.20 LOKALA TRAFIKFÖRESKRIFTER

NIL

LOCAL TRAFFIC REGULATIONS

NIL

ESMV 2.21 MINSKNING AV BULLERSTÖRNING

NIL

NOISE ABATEMENT PROCEDURES

NIL

ESMV 2.22 FLYGPROCEDURER

NIL

FLIGHT PROCEDURES

NIL

ESMV 2.23 ÖVRIG INFORMATION

NIL

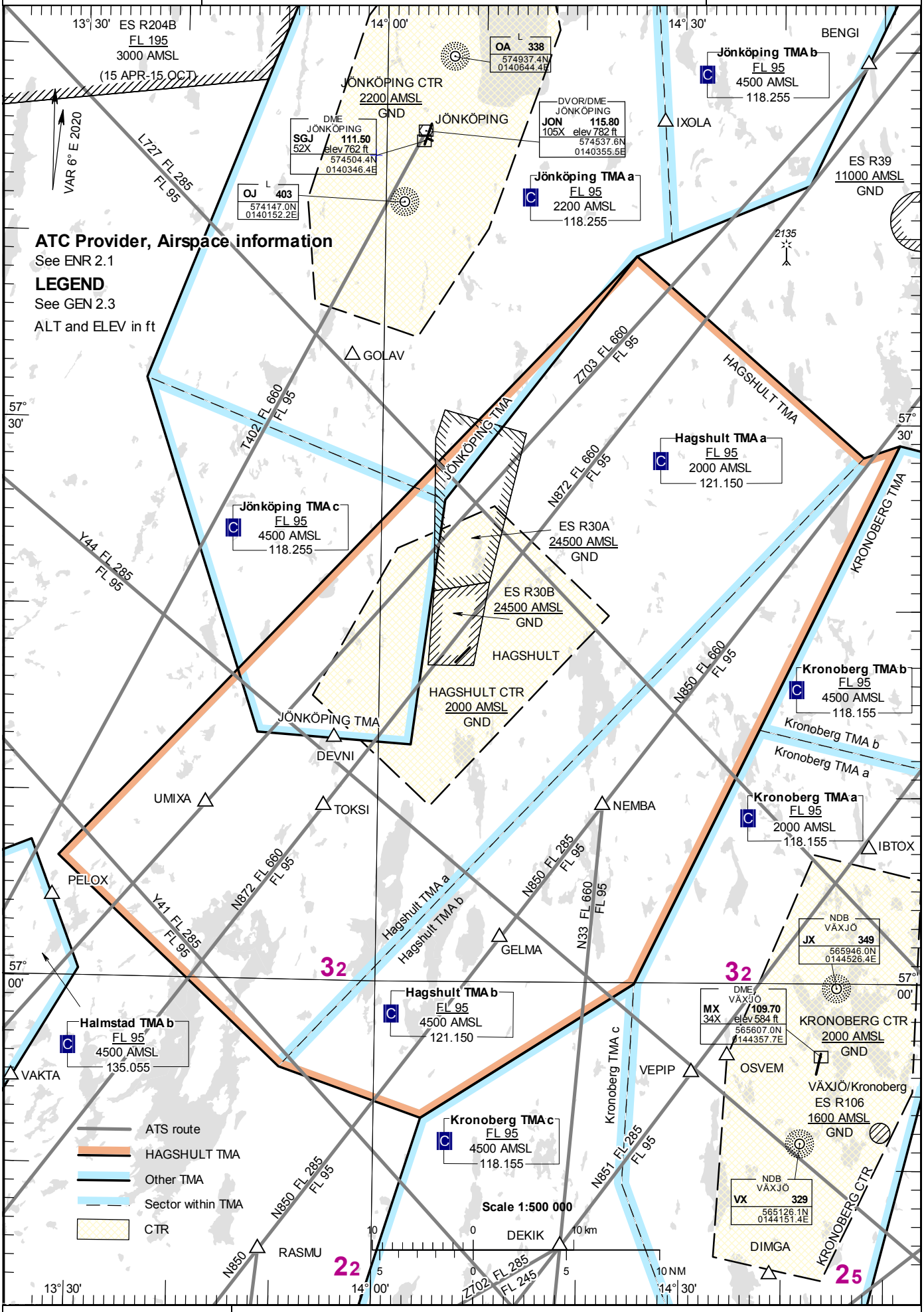
ADDITIONAL INFORMATION

NIL

ESMV 2.24 TILLHÖRANDE KARTOR

Area chart (TMA)	ESMV 4-1
ATC Surveillance Minimum ALT chart	ESMV 4-91
VAC	ESMV 6-1

RELATED CHARTS



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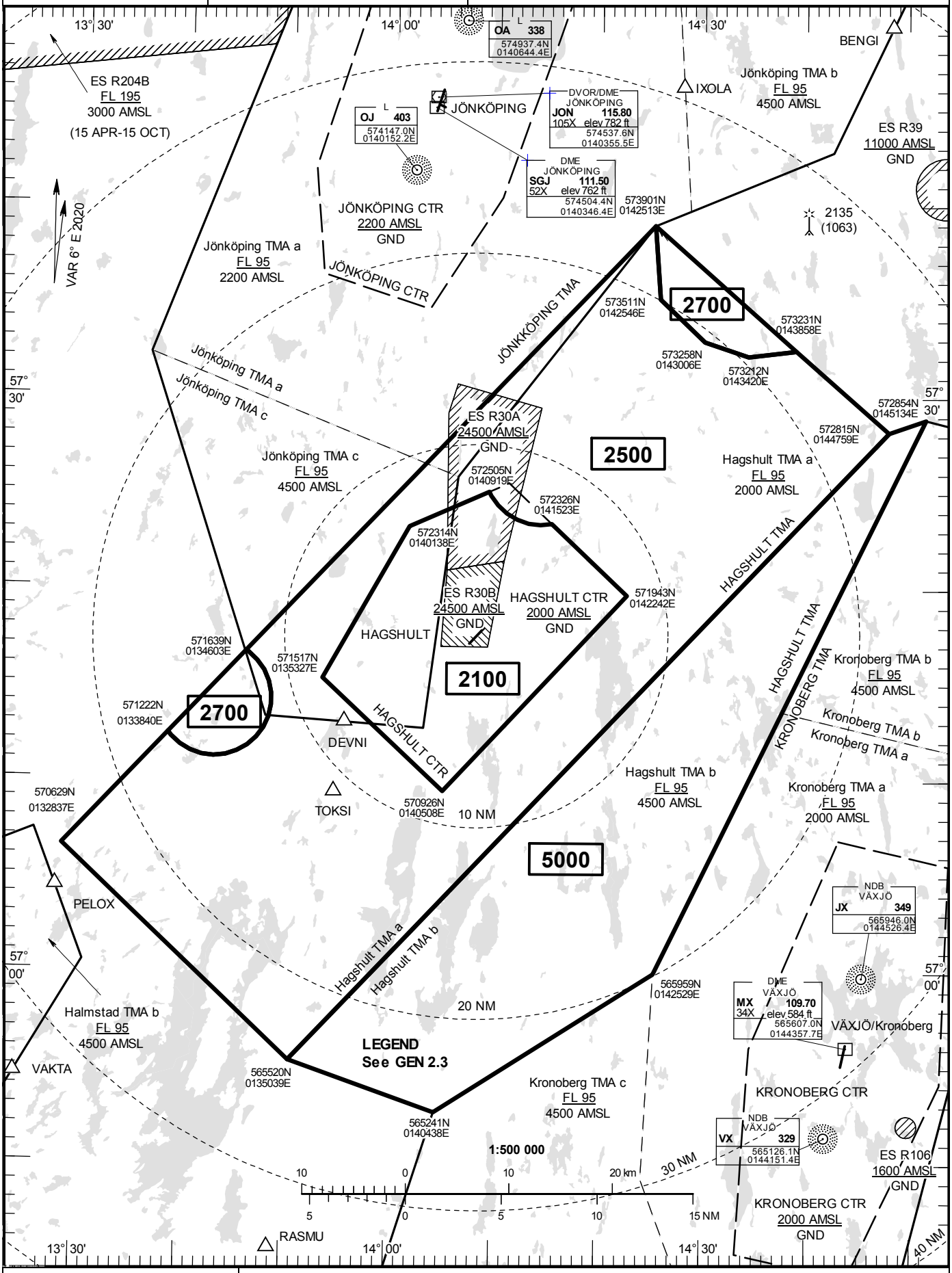
AD ELEV 556 FEET **HGT and ALT in ft** **TA 5000 AMSL**	**HAGSHULT TOWER 136.250** **HAGSHULT APPROACH 121.150**	THIS CHART MAY ONLY BE USED FOR CROSS-CHECKING OF ASSIGNED ALTITUDES WHILST IN RECEIPT OF RADAR SERVICE LEVELS ASSIGNED BY ATC INCLUDE A CORRECTION FOR LOW TEMPERATURE EFFECT



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VISUAL APPROACH CHART - ICAO

1:250000

1 0 1 2 3 4 5 km

1 0 1 2 3 NM

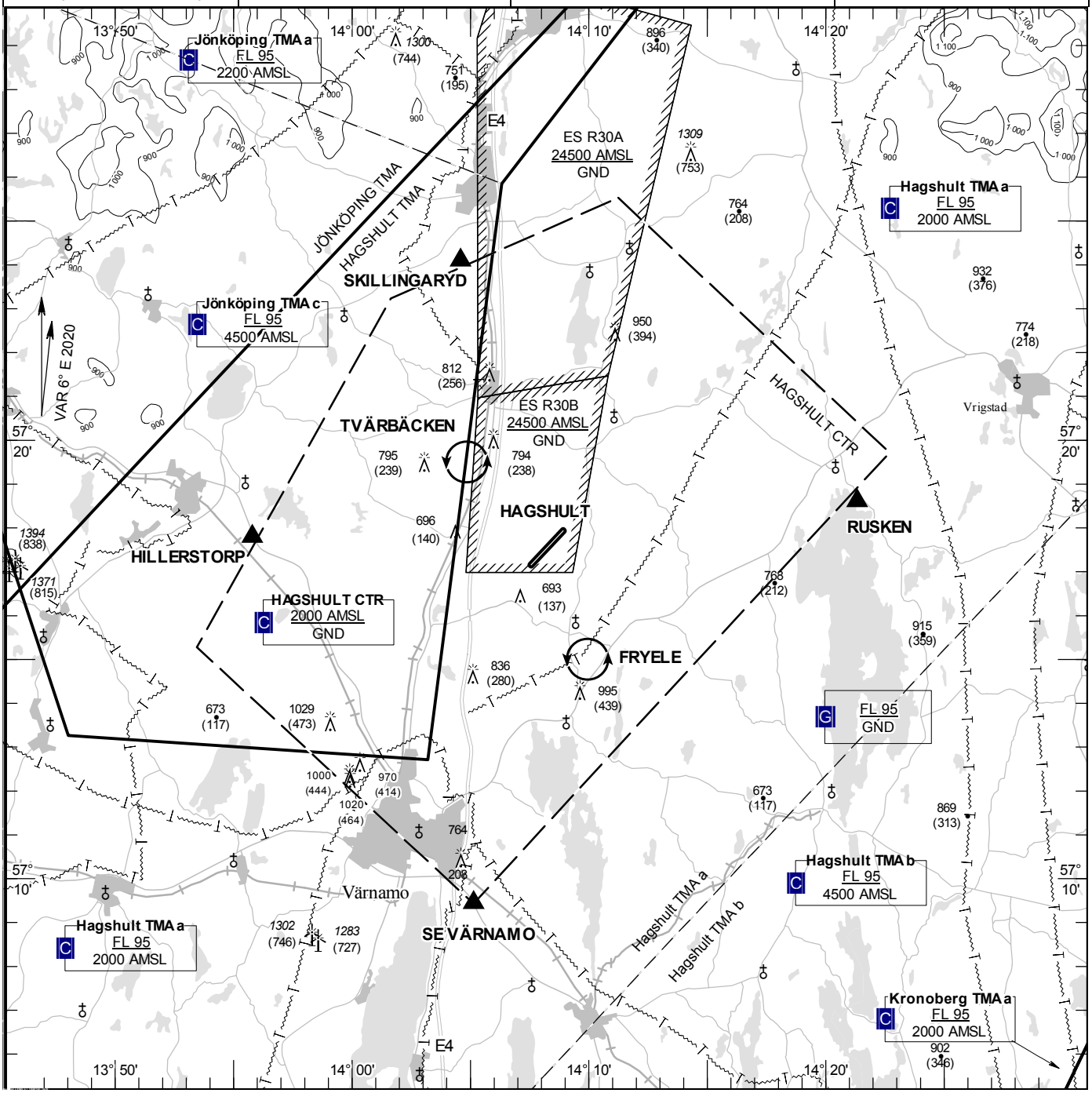
AD ELEV 556 FEET

ELEV and ALT in ft
HGT in ft above AD ELEV

TA 5000 AMSL

HAGSHULT TOWER 136.250
HAGSHULT APPROACH 121.150

HAGSHULT SWEDEN



Communication failure
NIL

Remark
NIL

RWY NR	THR ELEV	PAPI (MEHT)
04	556 ft	Left/2.86°
22	555 ft	Left/2.86°

Legend
See GEN 2.3

Entry / exit point

SKILLINGARYD:	572405N 0140435E
HILLERSTORP:	571747N 0135547E
SE VÄRNAMO:	570926N 0140508E
RUSKEN:	571836N 0142120E

Holding

FRYELE:	571500N 0140957E
TVÄRBÄCKEN:	571930N 0140451E

ESMT 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	Apron surface and strength	Apron 1 ASPH PCN 45 F/C/X/T Apron CIV ASPH PCN 45 F/C/X/T Apron EAST CONC PCN 45 F/C/X/T
2.	Taxiway width, surface and strength	TWY A 10 m CONC PCN 25 F/C/X/T TWY C 23 m ASPH PCN 45 F/C/X/T TWY D 15 m CONC PCN 25 F/C/X/T TWY F 10 m CONC PCN 25 F/C/X/T TWY M 15 m ASPH PCN 45 F/C/X/T TWY N 15 m ASPH PCN 45 F/C/X/T TWY W 7.5 m ASPH+GRASS PCN -
3.	ACL, location and elevation	Apron C 63 ft
4.	VOR checkpoints	-
5.	INS checkpoints	-
6.	Remarks	50% higher ACN accepted occasionally on TWY and Apron

ESMT 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, RCLL.
		TWY A:	CL day marked. Edge lights
		C:	CL, HLDG day marked. Edge lights, RGL
		D:	CL, HLDG day marked. Edge lights, RGL
		F:	CL, HLDG day marked. Edge lights, RGL
		M:	CL, HLDG day marked. Edge lights, RGL
		N:	CL day marked. Edge lights
		W:	CL day marked
3.	Stop bars	-	
4.	Remarks	-	

ESMT 2.10 AERODROME OBSTACLES

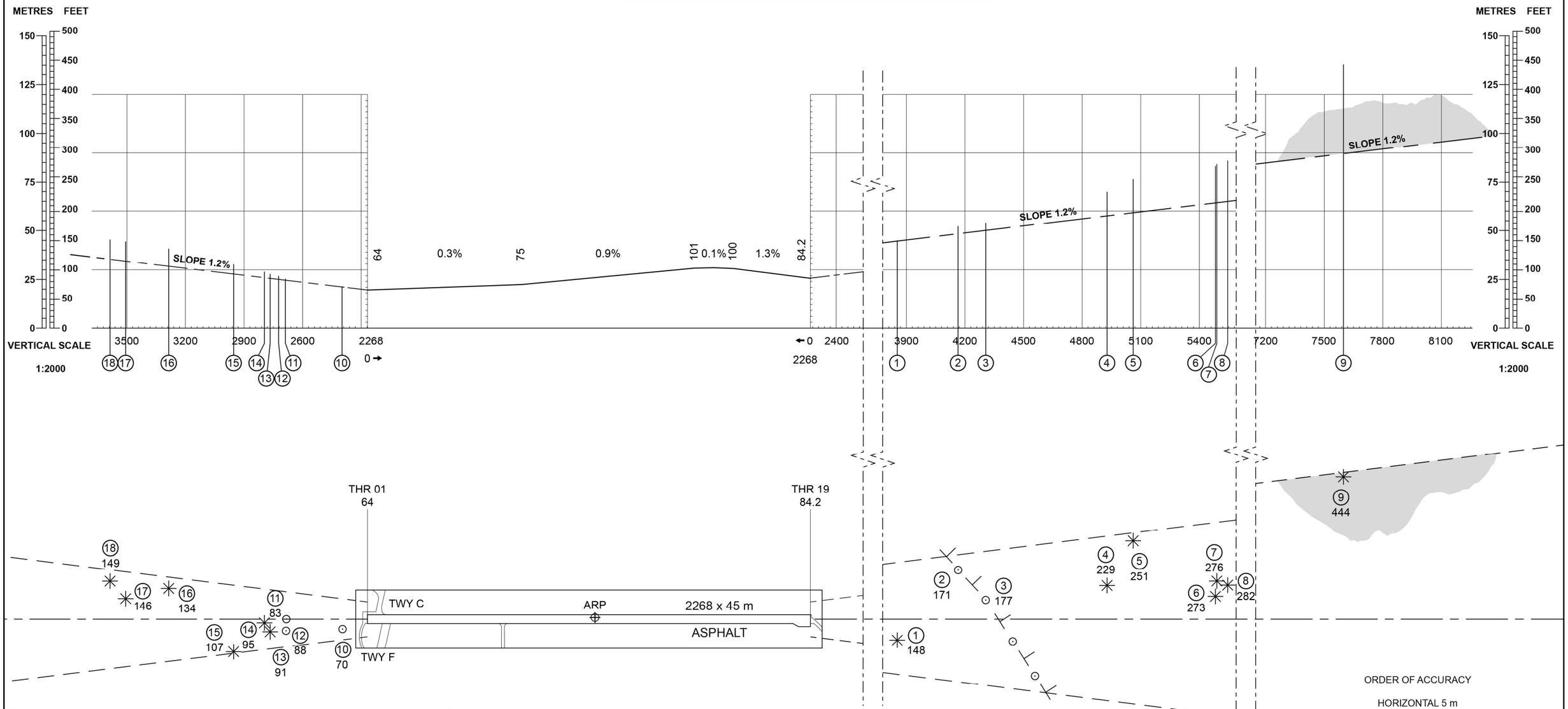
In Area 2					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT in feet	Markings/ Type, colour	Remarks
a	b	c	d	e	f
ESMT1	TREE	564255.0N 0124936.6E	148 / -	-	-
ESMT2	TOWER	564306.3N 0124917.4E	171 / -	-	-
ESMT3	TOWER	564310.4N 0124927.3E	177 / -	-	-
ESMT4	TREE	564330.6N 0124926.9E	229 / -	-	-
ESMT5	TREE	564335.7N 0124914.3E	251 / -	-	-
ESMT6	TREE	564348.3N 0124933.7E	273 / -	-	-
ESMT7	TREE	564348.8N 0124929.1E	276 / -	-	-
ESMT8	TREE	564350.5N 0124930.7E	282 / -	-	-
ESMT9	TREE	564457.9N 0124910.8E	444 / -	-	-
ESMT10	SIGN	564047.1N 0124907.6E	70 / -	-	-
ESMT11	NAVAID	564038.0N 0124902.8E	83 / -	-	-
ESMT12	ANTENNA	564037.7N 0124906.3E	88 / -	-	-
ESMT13	TREE	564035.1N 0124906.0E	91 / -	-	-
ESMT14	VEGETATION	564034.8N 0124903.3E	95 / -	-	-
ESMT15	TREE	564028.7N 0124910.9E	107 / -	-	-
ESMT16	TREE	564019.1N 0124849.6E	134 / -	-	-
ESMT17	TREE	564011.9N 0124851.4E	146 / -	-	-
ESMT18	TREE	564009.6N 0124845.6E	149 / -	-	-

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 101 FEET
MAGNETIC VARIATION 4° E 2020

RUNWAY BEARINGS
01 = GEO 006.20°; MAG 002°
19 = GEO 186.21°; MAG 182°

RWY 01	DECLARED DISTANCES	RWY 19
2268	TAKE-OFF RUN AVAILABLE	2268
2268	TAKE-OFF DISTANCE AVAILABLE	2268
2268	ACCELERATE STOP DIST. AVAILABLE	2268
2268	LANDING DISTANCE AVAILABLE	2268



LEGEND	
IDENTIFICATION NUMBER	①
POLE, TOWER, SPIRE, ANTENNA, ETC.	⊙
TRANSMISSION LINE OR OVERHEAD CABLE	⊥
BUILDING OR LARGE STRUCTURE	□
TREE OR SHRUB	✳
TERRAIN PENETRATING OBSTACLE PLANE	

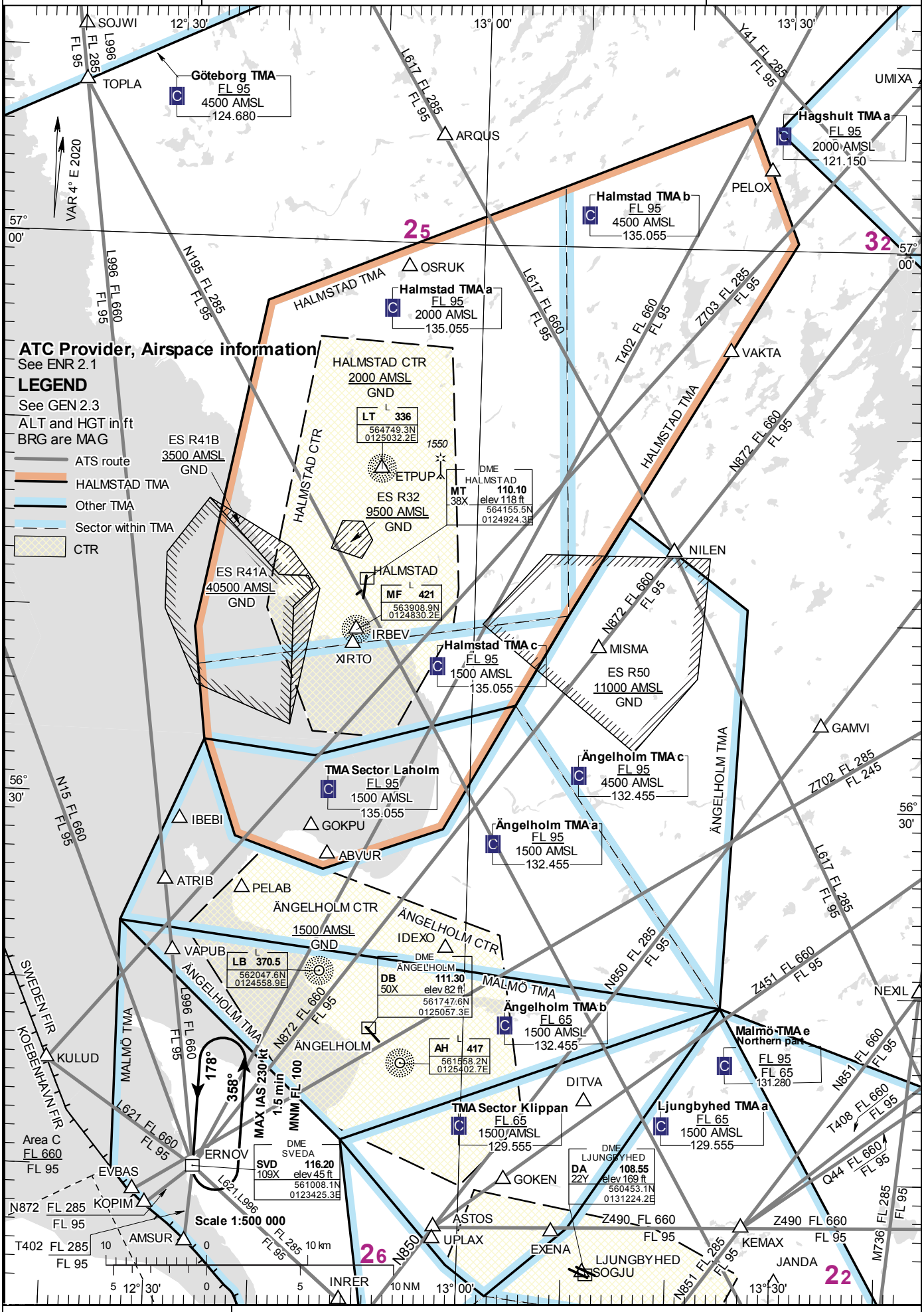
HORIZONTAL SCALE 1:20 000

METRES
400 200 0 500 1000 1500 2000 2500

1000 500 0 1000 2000 3000 4000 5000 6000 7000 8000
FEET

ORDER OF ACCURACY

HORIZONTAL 5 m
VERTICAL 1 ft



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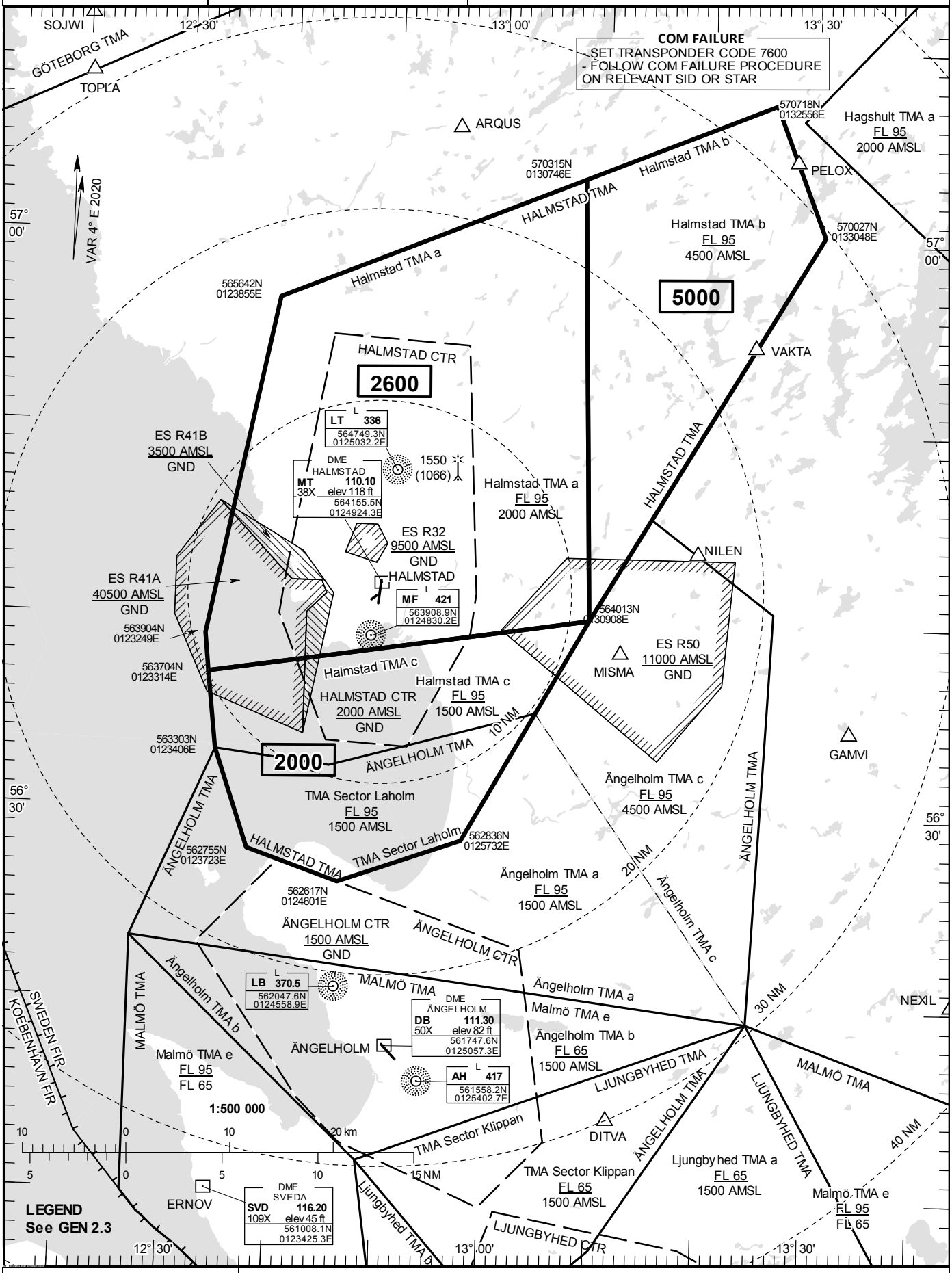
AD ELEV 101 FEET HGT and ALT in ft TA 5000 AMSL	HALMSTAD TOWER 130.105 135.055	THIS CHART MAY ONLY BE USED FOR CROSS-CHECKING OF ASSIGNED ALTITUDES WHILST IN RECEIPT OF RADAR SERVICE LEVELS ASSIGNED BY ATC INCLUDE A CORRECTION FOR LOW TEMPERATURE EFFECT

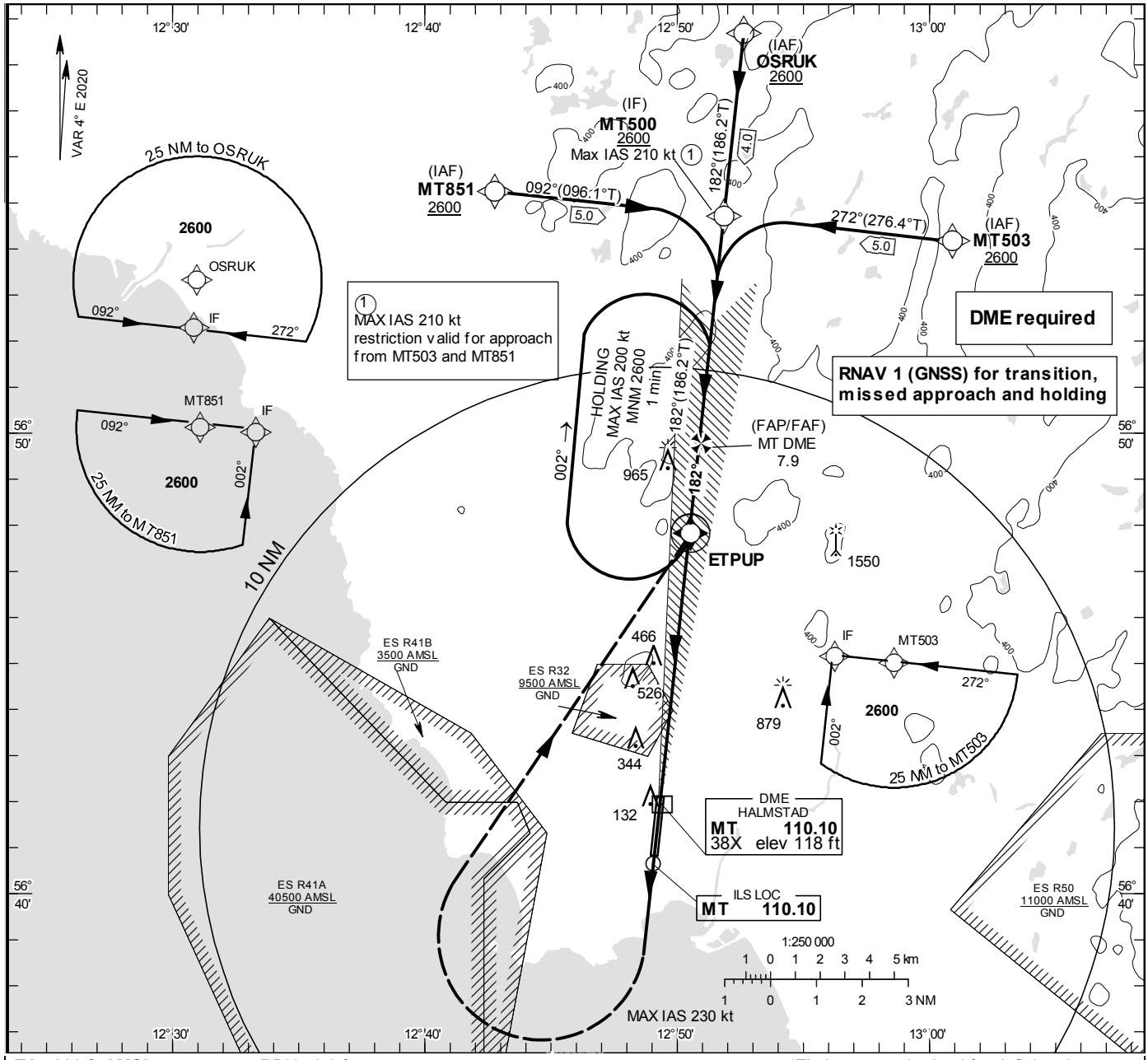


INSTRUMENT APPROACH CHART – ICAO

THR ELEV 84.2 ft, AD ELEV 101 ft
OCH are related to THR.
Circling OCH are related to AD ELEV

HALMSTAD TOWER	130.105
	135.055

ILS z or LOC z RWY 19

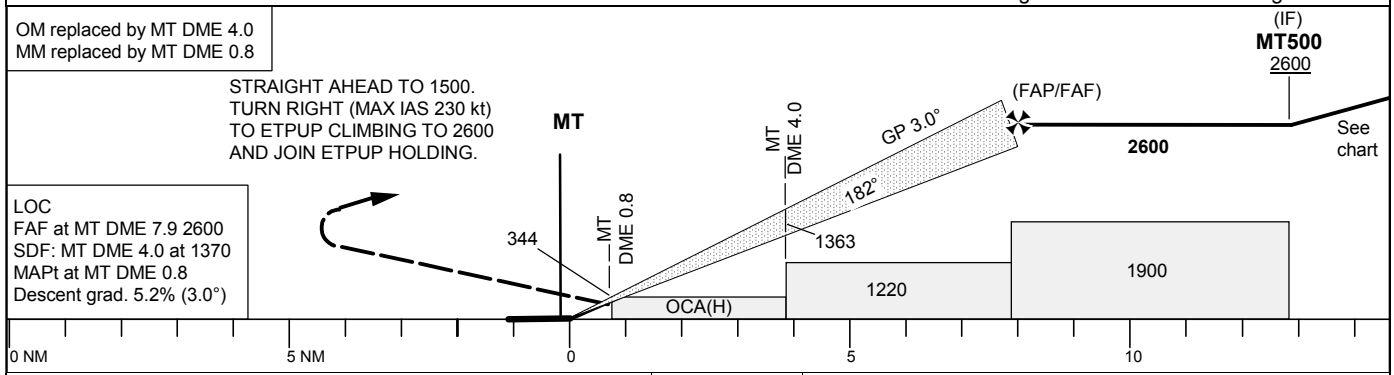


TA 5000 ft AMSL RDH 50.9 ft *Timing not authorized for defining the

OM replaced by MT DME 4.0
MM replaced by MT DME 0.8

STRAIGHT AHEAD TO 1500.
TURN RIGHT (MAX IAS 230 kt)
TO ETPUP CLIMBING TO 2600
AND JOIN ETPUP HOLDING.

LOC
FAF at MT DME 7.9 2600
SDF: MT DME 4.0 at 1370
MAPt at MT DME 0.8
Descent grad. 5.2% (3.0°)



OCA (H)					
Cat of ACFT		A	B	C	D
Straight-in Approach	CAT I	232 (147)	243 (158)	255 (170)	269 (184)
	LOC	720 (640)			
Circling		640 (540)	830 (730)	1280 (1180)	1280 (1180)

Circling Cat D Max IAS 195 kt

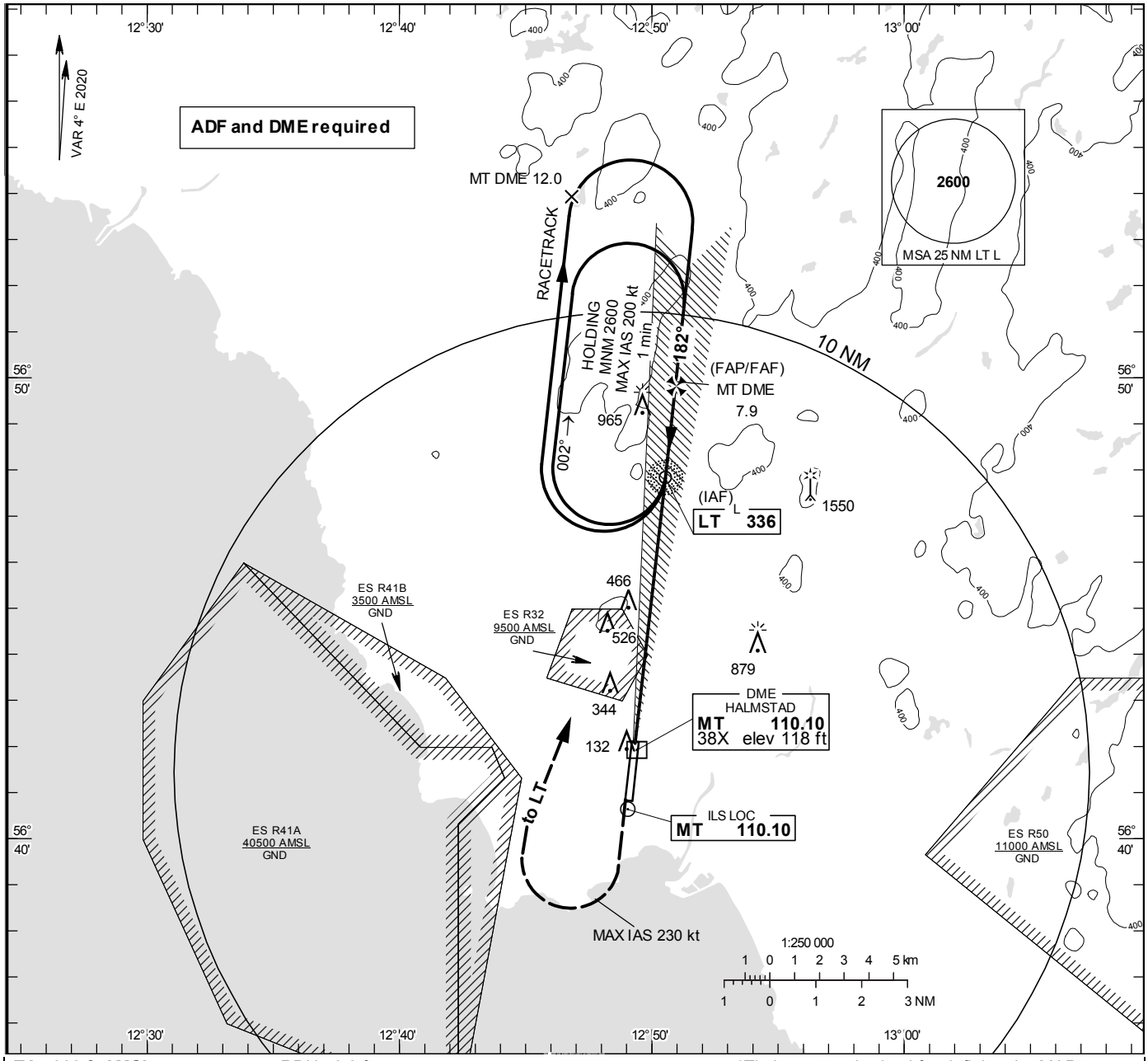
Final approach	LOC distance FAF-MAPt 7.1 NM*						
DME MT NM	2	3	4	5	6	7	
ALT	730	1040	1370	1680	2000	2320	
GS	kt	80	100	120	140	160	180
Time	min:s	5:19	4:15	3:33	3:02	2:39	2:22
Rate of descent	ft/min	425	530	635	745	850	955

ILS y or LOC y RWY 19

HALMSTAD TOWER	130.105
	135.055

THR ELEV 84.2 ft, AD ELEV 101 ft
OCH are related to THR.
Circling OCH are related to AD ELEV.
BRG are MAG
ALT. HGT and ELEV in ft.

INSTRUMENT APPROACH CHART – ICAO

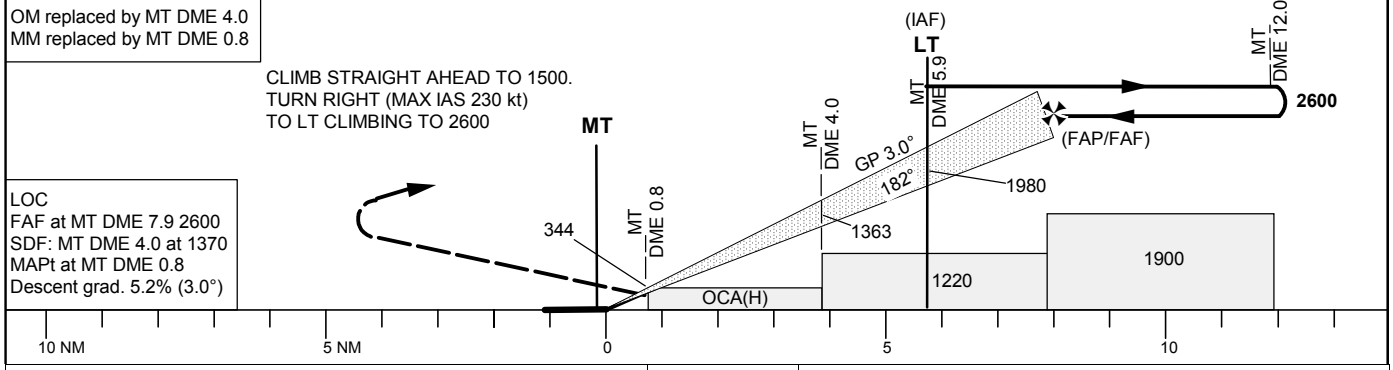


TA 5000 ft AMSL RDH 50.9 ft *Timing not authorized for defining the MAPt

OM replaced by MT DME 4.0
MM replaced by MT DME 0.8

CLIMB STRAIGHT AHEAD TO 1500.
TURN RIGHT (MAX IAS 230 kt)
TO LT CLIMBING TO 2600

LOC
FAF at MT DME 7.9 2600
SDF: MT DME 4.0 at 1370
MAPt at MT DME 0.8
Descent grad. 5.2% (3.0°)



OCA (H)					
Cat of ACFT		A	B	C	D
Straight-in Approach	CAT I	232 (147)	243 (158)	255 (170)	269 (184)
	LOC	720 (640)			
Circling		640 (540)	830 (730)	1280 (1180)	1280 (1180)

Circling Cat D Max IAS 195 kt

Final approach	LOC distance FAF-MAPt 7.1 NM*					
DME MT NM	2	3	4	5	6	7
ALT	730	1040	1370	1680	2000	2320
GS kt	80	100	120	140	160	180
Time min:s	5:19	4:15	3:33	3:02	2:39	2:22
Rate of descent ft/min	425	530	635	745	850	955

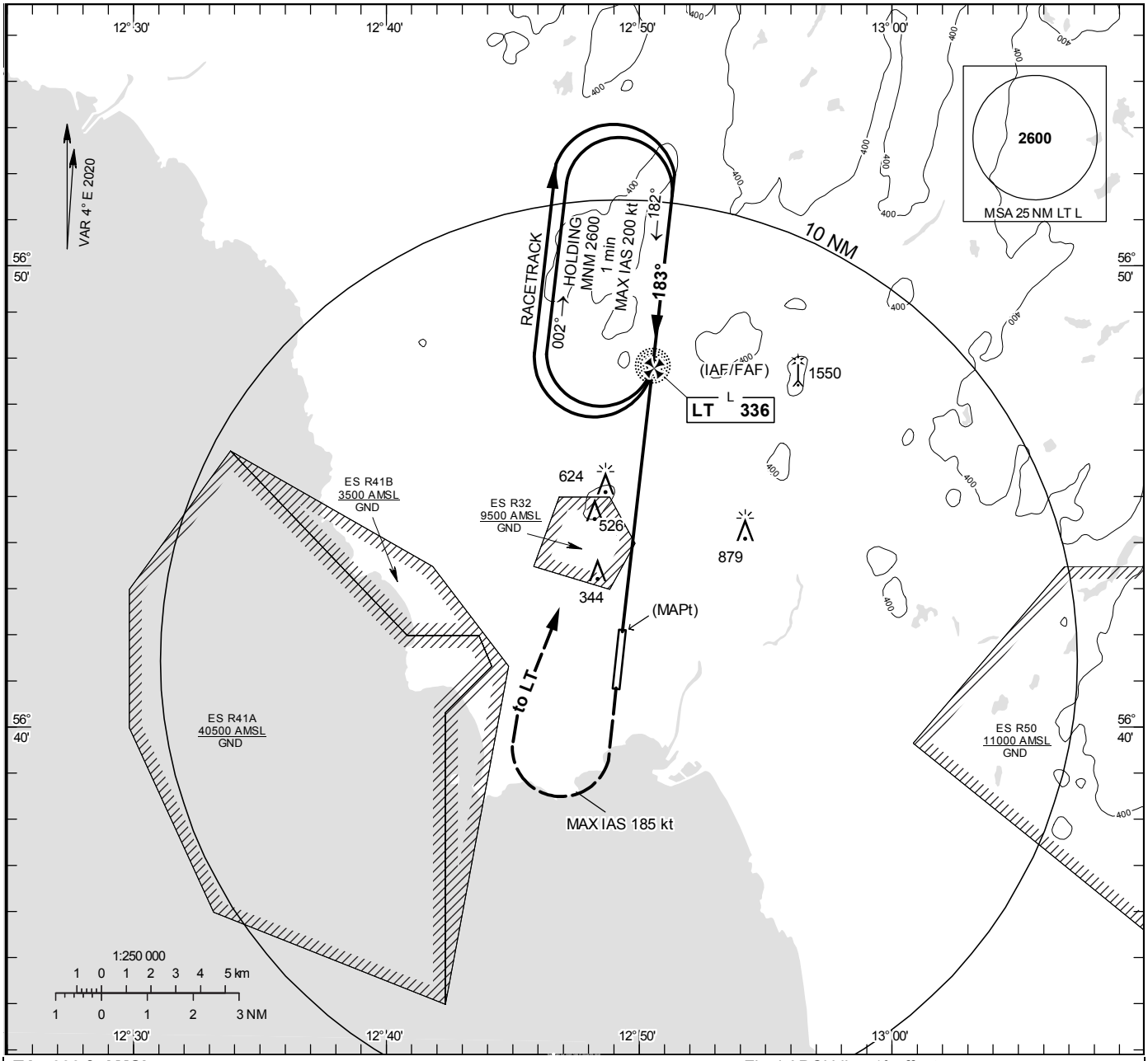
CHANGE: MOCA

INSTRUMENT APPROACH CHART – ICAO

THR ELEV 84.2 ft, AD ELEV 101 ft
OCH are related to THR.
Circling OCH are related to AD ELEV.
BRG are MAG
ALT. HGT and ELEV in ft.

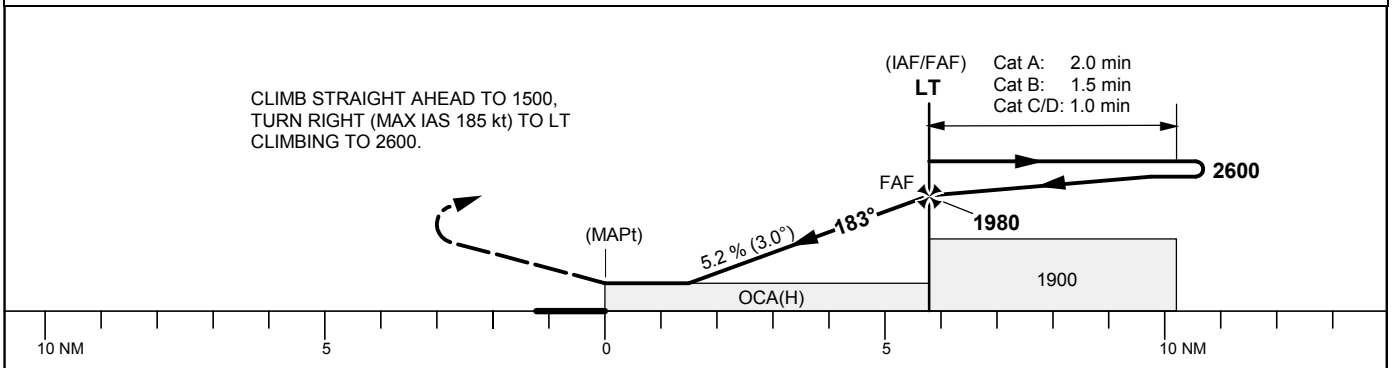
HALMSTAD TOWER	130.105
	135.055

NDB RWY 19



TA 5000 ft AMSL

Final APCH line 1° offset



OCA (H)				
Cat of ACFT	A	B	C	D
Straight-in Approach	880 (800)			
Circling	880 (780)	880 (780)	1280 (1180)	1280 (1180)
Circling Cat D Max IAS 195 kt				

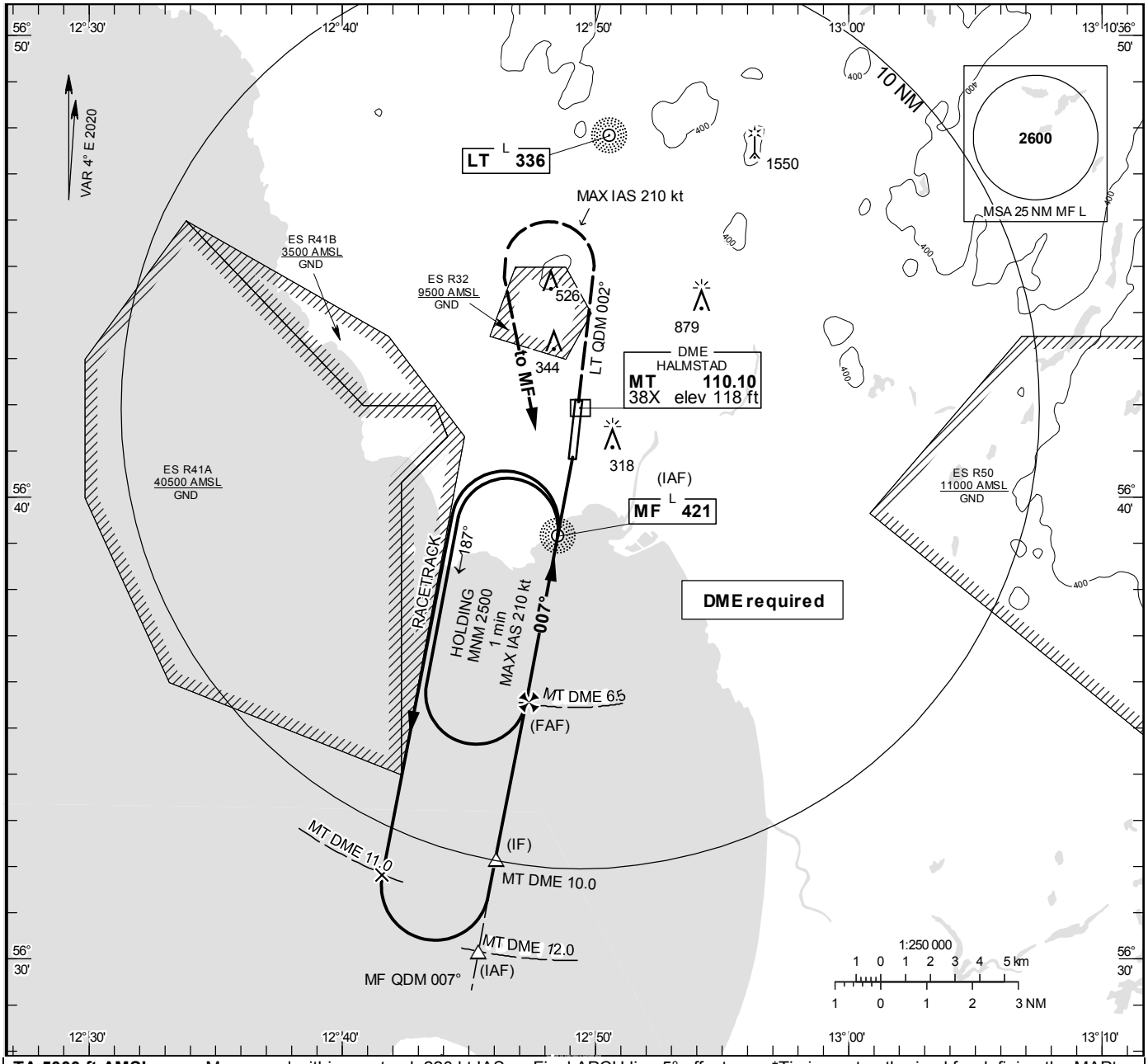
Final approach	Distance FAF-MAPt 5.8 NM						
DME MT NM	3		4			5	
ALT	1040		1360			1680	
GS	kt	80	100	120	140	160	180
Time	min:s	4:21	3:29	2:54	2:29	2:10	1:56
Rate of descent	ft/min	425	530	635	745	850	955

NDB z RWY 01

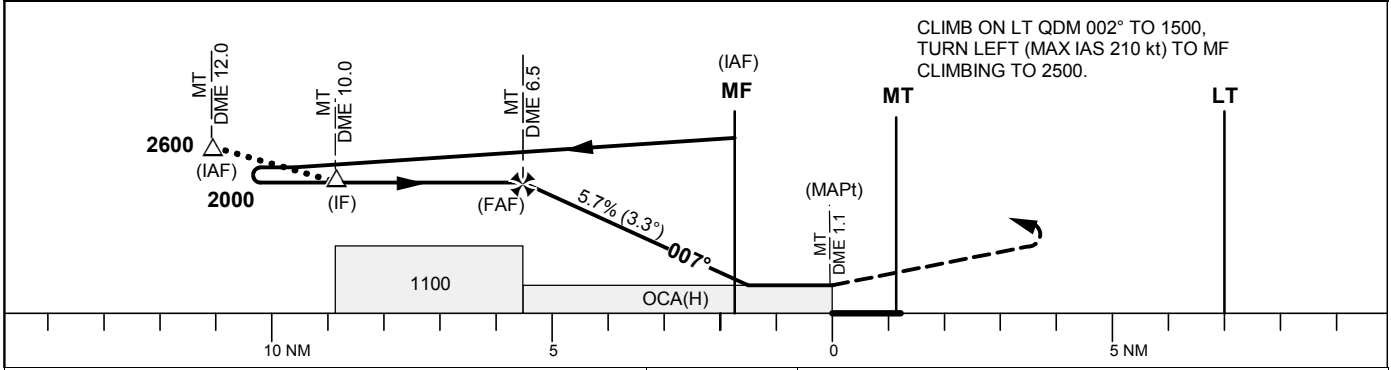
HALMSTAD TOWER	130.105
	135.055

THR ELEV 64 ft, AD ELEV 101 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 220 kt IAS Final APCH line 5° offset *Timing not authorized for defining the MAPt



OCA (H)				
Cat of ACFT	A	B	C	D
Straight-in Approach	560 (500)			
Circling	640 (540)	830 (730)	1280 (1180)	1280 (1180)
Circling Cat D Max IAS 195 kt				

Final approach	Distance FAF-MAPt 5.4 NM*						
DME MT NM	6		5		4		3
ALT	1820		1470		1120		780
GS	kt	80	100	120	140	160	180
Time	min:s	4:04	3:15	2:43	2:20	2:02	1:49
Rate of descent	ft/min	460	575	690	810	925	1040

AD 2 AERODROMES

ESUT 2.1 AERODROME LOCATION INDICATOR AND NAME

ESUT – HEMAVAN TÄRNABY

ESUT 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	ARP coordinates and site at AD	654822N 0150458E RWY centre point
2.	Direction and distance from (city)	SSW 0.5 NM from Hemavan
3.	Elevation/Reference temperature	1503 ft/+18.4°C
4.	Geoid undulation at AD ELEV PSN	107 ft
5.	MAG VAR/Annual change	8° E 2025/+0.2 increasing
6.	Administration, address, telephone, fax, AFS	Hemavan Tärnaby Airport Älvstigen SE-925 93 Hemavan TEL: +46 (0)954 305 30 E-mail: info@htairport.se AFS: ESUTZTZX Website: www.hemavantarnabyairport.se
7.	Types of traffic permitted (IFR/VFR)	IFR/VFR. Max RWY ref code 3C
8.	Remarks	PPR request shall be made to www.hemavantarnabyairport.se/ppr-c-dronare/ppr-tillstand-hta/

ESUT 2.3 OPERATIONAL HOURS

1.	AD Administration AD Operating hours	HX O/R TEL +46 (0)954 305 30
2.	Customs and immigration	-
3.	Health and sanitation	-
4.	AIS Briefing Office	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
5.	ATS Reporting Office (ARO)	As ATS
6.	MET Briefing Office	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
7.	ATS	Ref AIP SUP/NOTAM
8.	Fuelling	O/R
9.	Handling	O/R
10.	Security	O/R
11.	De-Icing	O/R
12.	Remarks	Increased charges outside hours of scheduled operations

ESUT 2.4 HANDLING SERVICES AND FACILITIES

1.	Cargo-handling facilities	O/R
2.	Fuel/oil types	Fuel Jet A1 Oil -
3.	Fuelling facilities/discharge capacity	Jet A1: 30,000 l stationary pressure fuelling
4.	De-icing facilities	Available, Type I and II, mobile unit
5.	Hangar space for visiting ACFT	O/R
6.	Repair facilities for visiting ACFT	-
7.	Remarks	For payment of fuel major credit cards accepted.

ESUT 2.5 PASSENGER FACILITIES

1.	Hotels	In Hemavan
2.	Restaurants	In Hemavan
3.	Transportation	Taxis
4.	Medical facilities	In Tärnaby 20 km
5.	Bank and Post Office	ATM in Tärnaby 20 km, Post Office in Hemavan 1 km
6.	Tourist Office	In Hemavan 1 km
7.	Remarks	-

ESUT 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	CAT 5 for SKED TFC, CAT 6 O/R 24HR PN
2.	Rescue equipment	Tracked vehicles, rescue boat
3.	Capability for removal of disabled aircraft	By arrangement, suitable for aircraft up to ATR 72. Contact Aerodrome manager TEL: +46 (0)70 333 10 31.
4.	Remarks	During periods of reduced aerodrome activity, RFFS level of protection may be lowered to a level corresponding to the largest aircraft using the aerodrome during that period. Non-commercial operations and specialised operation below 5700 kg exempted or O/R.

ESUT 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	Snowplough, blower, sweeper, slinger, spreader
2.	Clearance priorities	RWY, TWY, other rescue access roads, PAPI, ILS, Apron
3.	Remarks	AD uses frozen SAND for treatment of RWY No clearing SAT and outside TWR HR of OPS

ESUT 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
AFIS	HEMAVAN INFORMATION	122.980	HO	-
		121.500	HO	-

ESUT 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
LOC 15 (8° E 2025)	WUT	111.50 MHz	H24	654749.9N 0150538.4E		293 m beyond THR 33 Limited coverage to ±10° from CL
LOC 33 ILS CAT I (8° E 2025)	IUT	110.10 MHz	H24	654851.5N 0150420.4E		412 m beyond THR 15 ILS Class I/D/2 Limited coverage to ±10° from CL
GP		334.40 MHz	H24	654805.2N 0150509.2E		Angle 3.0° RDH 53.8 ft 300 m past THR 33 left side W CL coverage limited to 4°
L 33	SUT	342 kHz	H24	654239.5N 0151205.2E		Range 25 NM
L	NUT	325 kHz	H24	655009.8N 0150244.0E		Range 25 NM
DME	IUT	110.10 MHz	H24	654805.1N 0150508.7E	1535 ft	Limited coverage outside sectors 130-170° and 260-360° DME channel 38X

ESUT 2.20 LOKALA TRAFIKFÖRESKRIFTER

1 Högervarv tillämpas när RWY 15 är i användning.

2 Vid landning enligt VFR utanför ATS öppethållning ska avsikt att landa samt ETA tydligt aviseras på kanal 122.980 och en s.k. ”visuell överflygning” av banan genomföras för att säkerställa fri tillgänglighet samt att uppmärksamma eventuell flygplatspersonal och annan trafik på banan. Är banan inte tillgänglig i sin fulla längd och bredd ska inte landning genomföras.

3 Vid start utanför ATS öppethållning ska avsikt att starta tydligt aviseras på kanal 122.980. Är banan inte tillgänglig i sin fulla längd och bredd ska inte start genomföras.

4 Fordonstrafik kan förekomma på färdområdet utanför ATS öppethållning.

LOCAL TRAFFIC REGULATIONS

1 Right hand traffic circuit when RWY 15 is in use.

2 For VFR landing outside ATS hours of operation the intention to land and the ETA shall be clearly declared on channel 122.980 followed by a “visual fly over check” in order to verify runway availability and alerting any AD personnel and other traffic on the runway. If the runway is not available in its full length and width, the landing shall not be carried out.

3 For take-off outside ATS hours of operation the intention to take-off shall clearly be declared on channel 122.980. If the runway is not available in its full length and width, the take-off shall not be carried out.

4 Vehicles may occur in the movement area outside ATS opening hours.

ESUT 2.21 MINSKNING AV BULLERSTÖRNING

NIL

NOISE ABATEMENT PROCEDURES

NIL

ESUT 2.22 FLYGPROCEDURER

FLIGHT PROCEDURES

1 Startprocedurer, omnidirectional

1 Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
15	Climb straight ahead with MNM 610 ft/NM (10.0%) to MNM turning ALT 3800 ft. Continue climb to appropriate MSA. Sector 010° – 124° GEO from ARP not to be entered until ALT 5700 ft is reached.	Tree (CIO) Terrain (CIO) Tree Terrain Terrain Tree Terrain Terrain	1544 1657 2931 2953 4380 5418 5732 5830	159°/1568 162°/2600 131°/6784 130°/6600 357°/9900 049°/9694 042°/12510 044°/12600
33	Climb straight ahead with MNM 700 ft/NM (11.5%) to MNM turning ALT 4700 ft. Continue climb to appropriate MSA. Sector 010° – 124° GEO from ARP not to be entered until ALT 5700 ft is reached.	Antenna (CIO) Terrain (CIO) Tree Terrain Terrain Tree Terrain Terrain	1535 1657 3612 4032 4380 4400 5732 5830	339°/1525 346°/3000 352°/9260 357°/10825 354°/11000 354°/11195 038°/13124 039°/13000

2 Lägsta RVR för avgående trafik är 550 m.

2 Minimum RVR for departing traffic is 550 m.

ESUT 2.23 ÖVRIG INFORMATION

ADDITIONAL INFORMATION

1 Flygplatsen är belägen i fjällterräng. Svår turbulens och nedsvep kan förekomma i flygplatsens närhet vid vindhastigheter över 20 kt samtliga vindriktningar.

1 The aerodrome is surrounded by high ground. Severe turbulence and down draft may occur in the vicinity of the aerodrome at wind speeds above 20 kt, all directions.

2 Beviljade undantag från krav i CS-ADR-DSN

- Helikopterhangar tränger igenom inflygningsytan.
- Terminal/Torn genomtränger övergångsytan.
- Det finns fasta hinder i flygplatsens hinderytor som inte är försedda med hinderljus.

2 Granted exemptions from requirements in CS-ADR-DSN

- Helicopter hangar is penetrating approach surface.
- Terminal/Tower penetrating transitional surface.
- There are fixed obstacles in the airport´s obstacle areas that are not lighted.

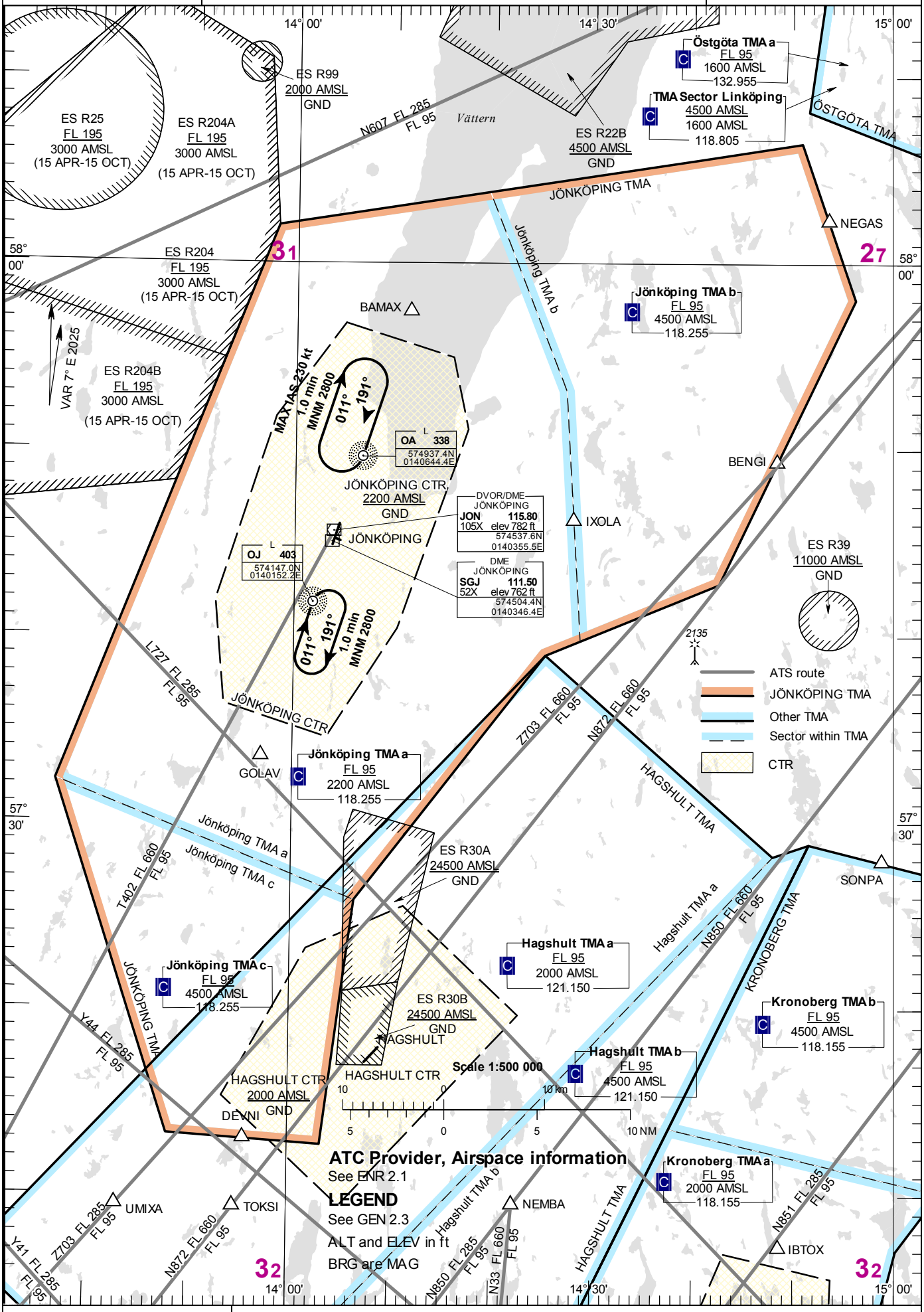
3 Belysning från bilväg samt skidbackar kan vara missledande/störande vid inflygning till bana 15/33.

3 Lights from road and ski area may be misleading/ disturbing during approach to RWY 15/33.

ESUT 2.24 TILLHÖRANDE KARTOR

RELATED CHARTS

AD chart		ESUT 2-1
AOC	RWY 15/33	ESUT-3-1
List of waypoints and significant points		ESUT 4-3
IAC	ILS or LOC RWY 33	ESUT 5-1
IAC	LOC RWY 15	ESUT 5-2
IAC	RNP RWY 15 (LNAV only)	ESUT 5-3
IAC	RNP RWY 33	ESUT 5-5
VAC		ESUT 6-1



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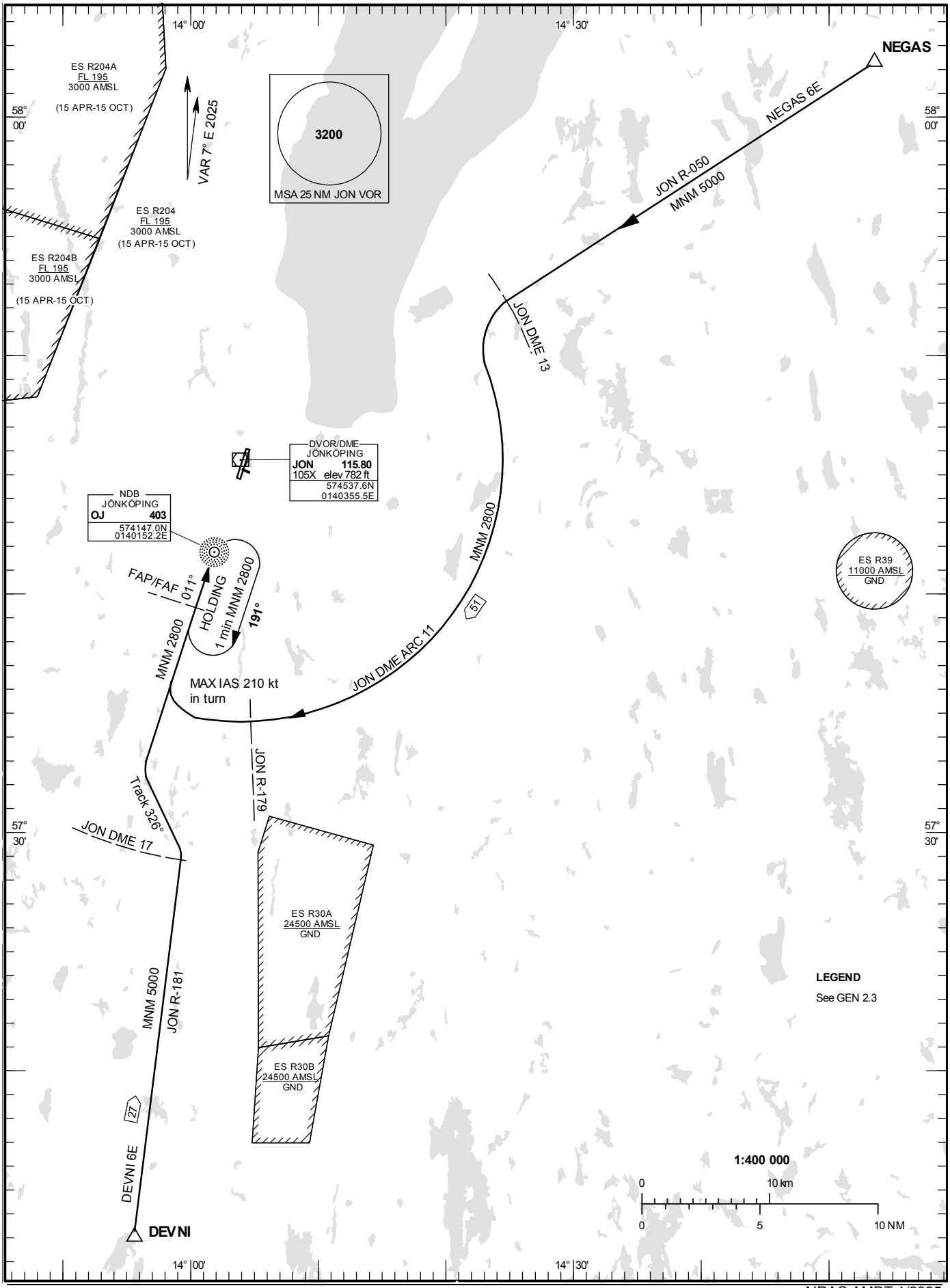
STANDARD INSTRUMENT ARRIVAL CHART (STAR) - ICAO

HGT and ALT in ft
BRG are MAG
TA 5000 ft AMSL

JÖNKÖPING TOWER 118.255

RWY 01

DEVNI 6E, NEGAS 6E



ARRIVAL (STAR) RWY 01

REMARK

Descent to minimum altitude for an arrival route must not be initiated until an ATC clearance to this altitude or an approach clearance has been received.

DEVNI SIX ECHO ARRIVAL (DEVNI 6E)

At DEVNI intercept JON R-181, not below 5000 ft until JON DME 17. At JON DME 17 turn left to track 326° to intercept LOC SGJ, not below 2800 ft until FAP/FAF.

NEGAS SIX ECHO ARRIVAL (NEGAS 6E)

After NEGAS intercept JON R-050 and proceed to JON DME 13, not below 5000 ft. Turn left and proceed on JON DME ARC 11, not below 2800 ft.
At JON R-179 turn right (MAX IAS 210 kt in turn) to intercept LOC SGJ, not below 2800 ft until FAF/FAP.

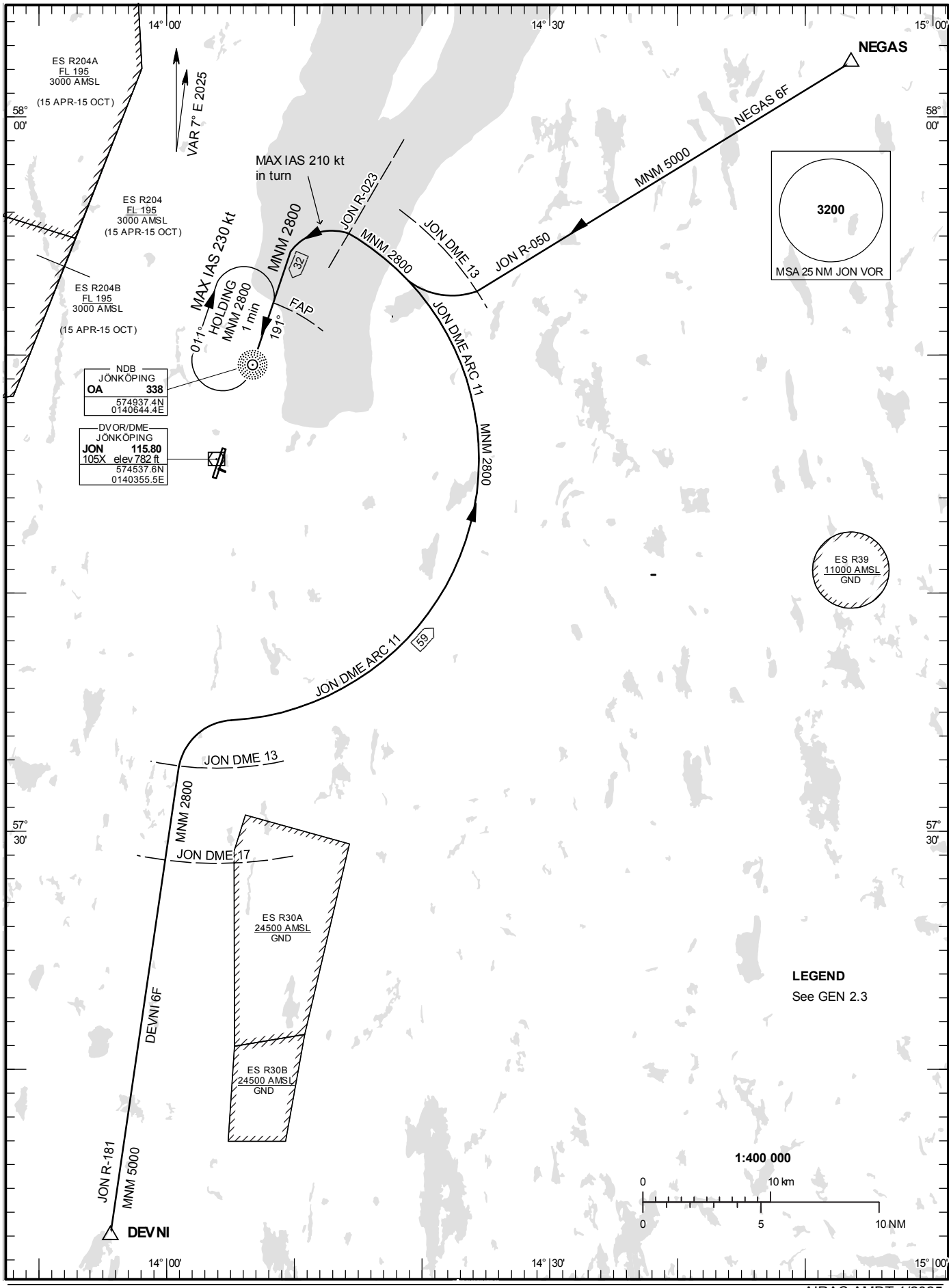
STANDARD INSTRUMENT ARRIVAL CHART (STAR) - ICAO

HGT and ALT in ft
BRG are MAG
TA 5000 ft AMSL

JÖNKÖPING TOWER	118.255

RWY 19

DEVNI 6F, NEGAS 6F



ARRIVAL (STAR) RWY 19

REMARK

Descent to minimum altitude for an arrival route must not be initiated until an ATC clearance to this altitude or an approach clearance has been received.

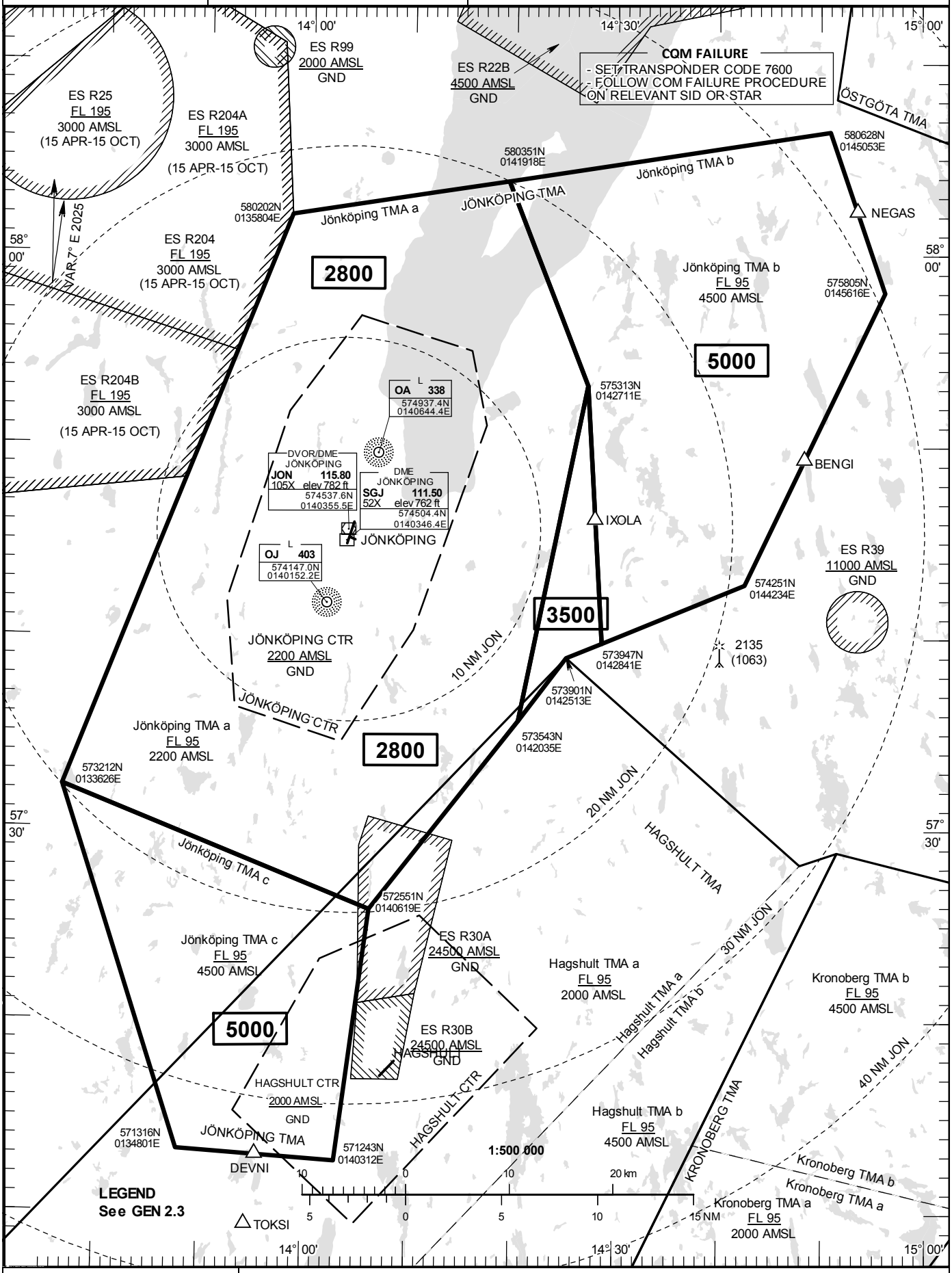
DEVNI SIX FOXTROT ARRIVAL (DEVNI 6F)

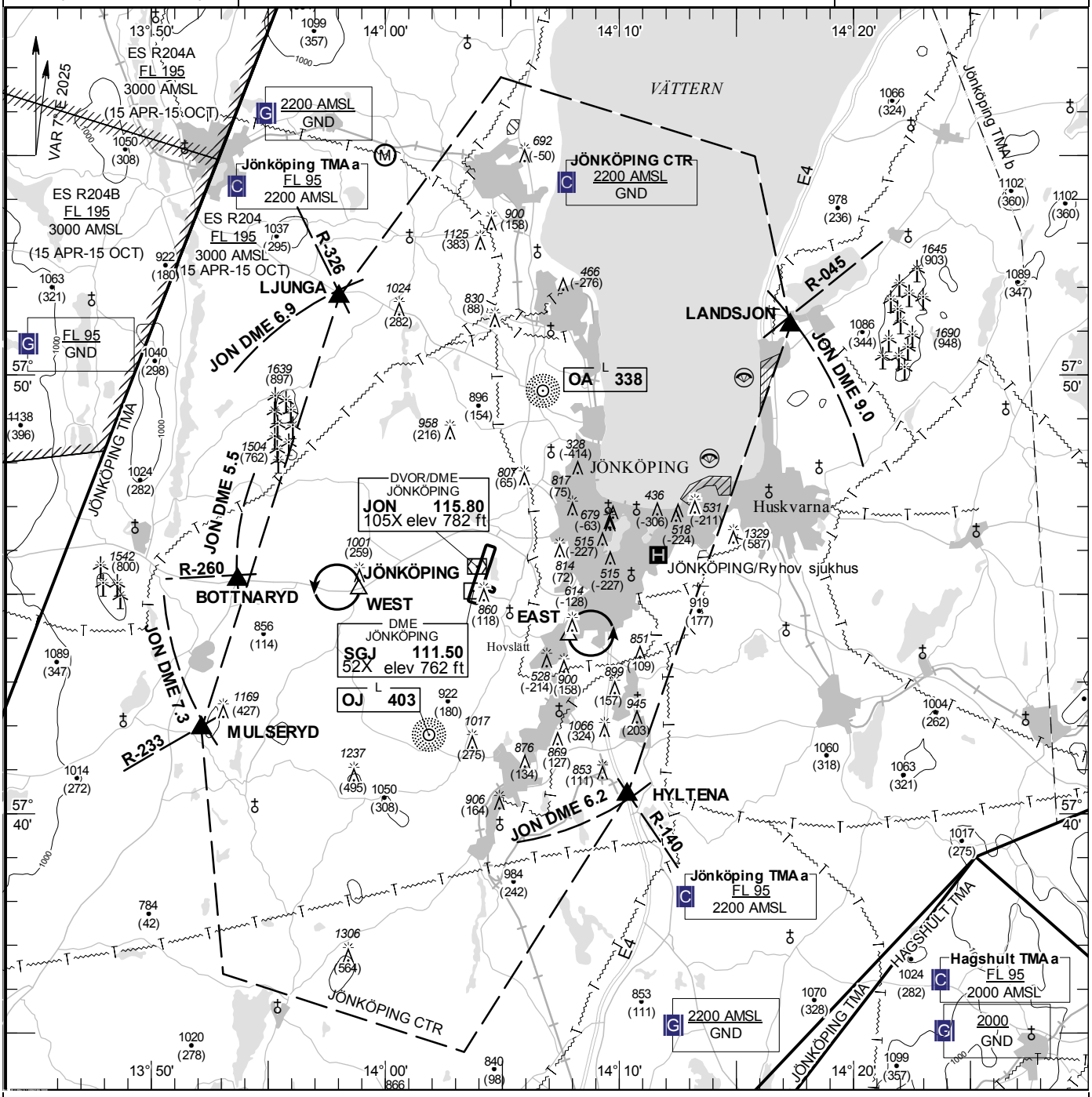
At DEVNI intercept JON R-181, not below 5000 ft until JON DME 17. At JON DME 13 turn right and proceed on JON DME ARC 11, not below 2800 ft. At JON R-023 turn left to intercept LOC SJ, not below 2800 ft until FAP.

NEGAS SIX FOXTROT ARRIVAL (NEGAS 6F)

At NEGAS intercept JON R-050, and proceed to JON DME 13, not below 5000 ft. Turn right and intercept JON DME ARC 11, not below 2800 ft. At JON R-023 turn left to intercept LOC SJ, not below 2800 ft until FAP.

AD ELEV 742 FEET HGT and ALT in ft TA 5000 AMSL	JÖNKÖPING TOWER 118.255	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





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 SE-392 41 Kalmar TEL: +46 (0)10 357 48 00 E-mail: flyget@kalmarairport.se AFS: ESMQZTZX 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 AD Operating hours	MON-FRI 0700-1600 (0600-1500) 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. 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

ESMQ 2.17 ATS AIRSPACE

1.	Designation and lateral limits	KALMAR CTR	565221N 0161228E - 564248N 0162617E - 563458N 0162934E - 563222N 0162028E - 563819N 0160849E - 564939N 0160251E - 565221N 0161228E
2.	Vertical limits	KALMAR CTR	1500 ft AMSL GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	KALMAR TOWER Swedish/English	
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	CTR established during hours of TWR.	

ESMQ 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR/APP	KALMAR TOWER	130.805	HO	Primary channel VDF.
		121.500	HO	VDF
		127.055	HX	VDF

ESMQ 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
LOC 16 ILS CAT I (6° E 2020)	MQ	108.70 MHz	H24	564034.0N 0161747.4E		556 m beyond THR 34 ILS Class I/E/2
GP		330.50 MHz	H24	564141.2N 0161651.0E		Angle 3.0° RDH 50.2 ft 320 m past THR 16 left side
VOR/DME (6° E 2020)	KAL	111.60 MHz	H24	564107.2N 0161702.8E	26 ft	200 m W ARP DME channel 53X
DME	MQ	108.70 MHz	H24	564141.3N 0161651.2E	13 ft	Poor DME coverage below 4000 ft AMSL beyond 17 NM. DME channel 24X

ESMQ 2.20 LOKALA TRAFIKFÖRESKRIFTER

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

2. Fordonstrafik utan dubbelriktad flygradioförbindelse kan förekomma utanför ATS öppethållning.

Vid flygning i CTR utanför ATS öppethållning ska blindsändning göras på 130.805.

Taxning med luftfartyg utanför ATS öppethållning får endast ske då sikten överstiger 500 m.

LOCAL TRAFFIC REGULATIONS

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

2. Vehicle movements without two way radio communication may occur outside ATS hours of operations.

When flying in CTR outside ATS hours of operations blind transmission should be made on 130.805.

Taxiing of aircraft outside ATS hours of operations is only allowed in visibility above 500 m.

ESMQ 2.21 MINSKNING AV BULLERSTÖRNING

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

NOISE ABATEMENT PROCEDURES

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

ESMQ 2.22 FLYGPROCEDURER

1. Flygvägar för ankommande och avgående trafik IFR
Se ESMQ 4-5 till ESMQ 4-20.

Väntlägen (Ref ENR 1.3 mom 9)
Väntlägen är upprättade enligt ESMQ 4-1.

2. Instrumentinflygningsprocedurerna får endast användas under ATS öppethållning.

3. Startprocedurer, omnidirectional

FLIGHT PROCEDURES

1. Arrival and departure routes IFR
See ESMQ 4-5 through ESMQ 4-20.

Holdings (Ref ENR para 1.3 mom 9)
Holdings are established accordance with ESMQ 4-1.

2. Instrument approach procedures may only be used during ATS hours of operation.

3. Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
16	Climb straight ahead to MNM turning ALT 500 ft AMSL. Continue climb to appropriate MSA.	Tree (CIO) Stack (Chimneys)	60 224	148°/2504 144°/5310
34	Climb straight ahead to MNM turning ALT 500 ft AMSL. Continue climb to appropriate MSA.	Tree (CIO)	142	337°/3234

4. Lägsta RVR för avgående trafik är 400 m.

4. Minimum RVR for departing traffic is 400 m.

5. Lågsiktsprocedurer (LVP) etablerade.

LVP träder i kraft när bansynvidden (RVR) är lägre än 550 m eller när molntäckeshöjden eller vertikalsikten är lägre än 200 ft.

Meddelande om att LVP är i kraft lämnas av ATS.

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

När LVP tillämpas ska luftfartyg meddela lämnade av manöverområdet genom att anmäla framme på avsedd parkeringsplats.

5. Low visibility procedures (LVP) established.

LVP will be in force when RVR is below 550 m or ceiling or vertical visibility is below 200 ft.

The application of LVP will be announced by ATS.

When LVP is applied only one aircraft or vehicles are allowed on the manoeuvring area.

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

6. VFR-flygning inom Kalmar TMA/CTR

Normala in- och utpasseringspunkter
Se ESMQ 6-1

Väntlägen
Se ESMQ 6-1

Avbrott i radioförbindelse
Se ESMQ 6-1

6. VFR flight within Kalmar TMA/CTR

Normal entry and exit points
See ESMQ 6-1

Holdings
See ESMQ 6-1

Communication failure
See ESMQ 6-1

ESMQ 2.23 ÖVRIG INFORMATION

1. Reducerad banseparation tillämpas på flygplatsen enligt AIP AD 1.1 mom 10.

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

ADDITIONAL INFORMATION

1. Reduced runway separation is applied at the aerodrome in accordance with AIP AD 1.1 para 10.

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

Fasta hinder genomtränger följande hinderbegränsande ytor enligt förteckning:

- Inflygningsyta bana 16 och 34
- Horisontella ytan
- Koniska ytan
- Övergångsytan bana 16 och 34
- Stråkytan bana 16 och 34

Fixed obstacles penetrate the following obstacle limitations surfaces according to list:

- Approach surface RWY 16/34
- Horizontal surface
- Conical surface
- Transition surface RWY 16/34
- Strip RWY 16/34

ESMQ 2.24 TILLHÖRANDE KARTOR / RELATED CHARTS

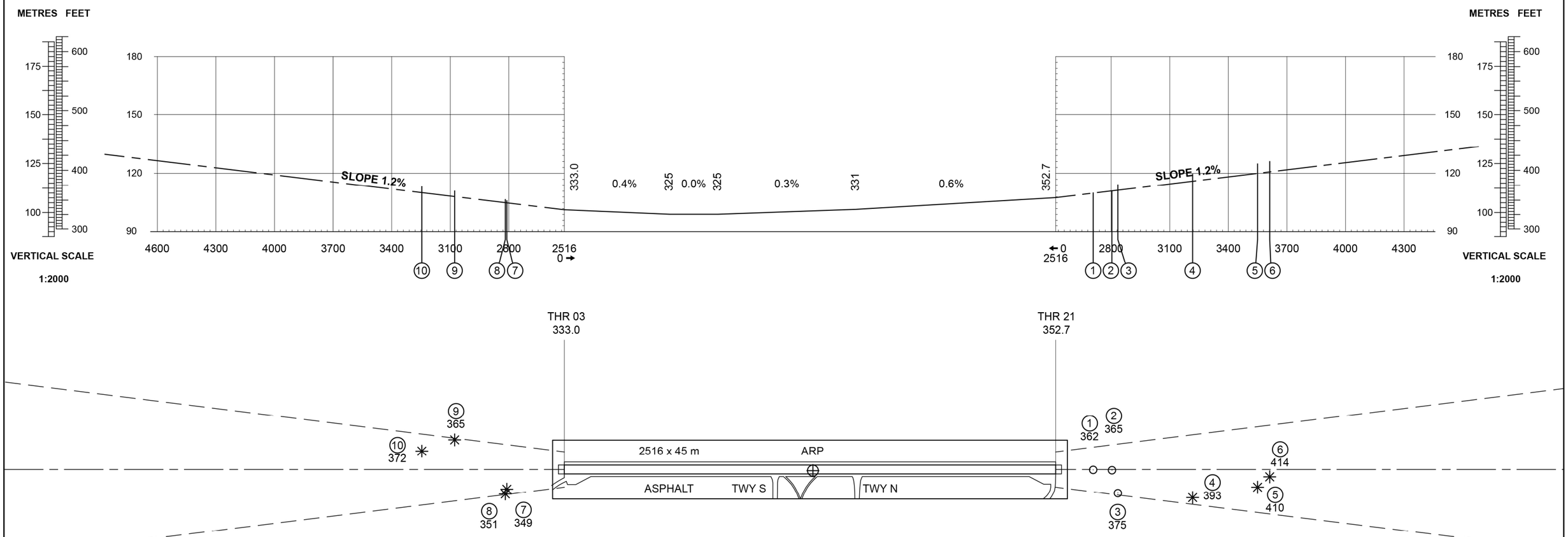
AD chart		ESMQ 2-1
AOC	RWY 16/34	ESMQ-3-1
Area chart	(TMA)	ESMQ 4-1
List of waypoints and significant points		ESMQ 4-3
SID	RWY 16	ESMQ 4-5
SID	RWY 34	ESMQ 4-7
STAR	RWY 16	ESMQ 4-9
STAR	RWY 34	ESMQ 4-11
SID RNP	RWY 16 LAGIS 1K, LATVI 1K, MOVIS 1K, TILSA 1K	ESMQ 4-13
SID RNP	RWY 34 LAGIS 1L, LATVI 1L, MOVIS 1L, TILSA 1L	ESMQ 4-15
STAR RNP	RWY 16 LAGIS 1S, LATVI 1S, MOVIS 1S, TILSA 1S	ESMQ 4-17
STAR RNP	RWY 34 LAGIS 1T, LATVI 1T, MOVIS 1T, TILSA 1T	ESMQ 4-19
ATC Surveillance Minimum ALT chart		ESMQ 4-91
IAC	ILS or LOC RWY 16	ESMQ 5-1
IAC	VOR RWY 34	ESMQ 5-2
IAC	RNP RWY 16	ESMQ 5-3
IAC	RNP RWY 34	ESMQ 5-7
VAC		ESMQ 6-1

DIMENSIONS IN METRES ELEVATIONS IN FEET	**AERODROME OBSTACLE CHART-ICAO** TYPE A-OPERATING LIMITATIONS	**KARLSTAD** **SWEDEN**	**AD 2-ESOK-3-1** **RWY 03/21**

AERODROME ELEVATION 353 FEET
MAGNETIC VARIATION 5° E 2020

RUNWAY BEARINGS
03 = GEO 025.65°; MAG 021°
21 = GEO 205.67°; MAG 201°

RWY 03	DECLARED DISTANCES	RWY 21
2516	TAKE-OFF RUN AVAILABLE	2516
2516	TAKE-OFF DISTANCE AVAILABLE	2516
2516	ACCELERATE STOP DIST. AVAILABLE	2516
2516	LANDING DISTANCE AVAILABLE	2516



HORIZONTAL SCALE 1:20 000

METRES
400 200 0 500 1000 1500 2000 2500
FEET
1000 500 0 1000 2000 3000 4000 5000 6000 7000 8000

ORDER OF ACCURACY
Horizontal 5 m
Vertical 1 ft

LEGEND	
IDENTIFICATION NUMBER	①
POLE, TOWER, SPIRE, ANTENNA, ETC.	○
TREE OR SHRUB	✳
BUILDING OR LARGE STRUCTURE	▭
TERRAIN PENETRATING OBSTACLE PLANE	

LFV			CHANGE: Editorial	AIRAC AMDT 1/2025

ESOK-AOC 03/21
20 MAR 2025

ESNQ 2.17 ATS AIRSPACE

1.	Designation and lateral limits	KIRUNA CTR	680054N 0202744E - 675754N 0204244E - 674625N 0203344E - 673725N 0201444E - 674025N 0195844E - 675154N 0200704E - 680054N 0202744E
2.	Vertical limits	KIRUNA CTR	3100 ft AMSL GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	KIRUNA TOWER Swedish/English	
5.	Transition altitude	6000 ft AMSL	
6.	Remarks	CTR established during hours of TWR.	

ESNQ 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	KIRUNA TOWER	130.155	HO	Primary channel LRG
		121.500	HO	-
		122.100	HX	By directive from ATS
		121.775	HO	De-icing

ESNQ 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
LOC 21 ILS CAT I (10° E 2020)	NQ	110.30 MHz	H24	674833.8N 0201852.4E		439 m beyond THR 03 LOC Class I/E/2
GP		335.00 MHz	H24	674942.1N 0202105.2E		Angle 3.0° RDH 58.5 ft 315 m past THR 21 left side During winter angle may vary btn 3.00° and 3.25° due to snow GP Class I/C/2
L 21	OP	360 kHz	H24	675314.9N 0202709.9E		Range 40 NM
DVOR/DME (10° E 2020)	KRA	115.20 MHz	H24	674909.3N 0202015.3E	1505 ft	DME channel 99X
DME	NQ	110.30 MHz	H24	674942.0N 0202105.6E	1469 ft	DME channel 40X

ESNQ 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. Klarering för uttaxning

LOCAL TRAFFIC REGULATIONS

1. Clearance at gate

Alla luftfartyg ska begära start-up från ATC. Klarering lämnas på begäran före begäran om start-up. Klareringen utfärdas för gällande bana och tillämplig SID eller utpasseringspunkt ur TMA.

2. Föreskrifter vid taxning på TWY Y

Maximalt vingspann 36 m för taxning på TWY Y. Avisning av luftfartyg med större vingspann än 36 m ska kontakta TWR för särskilda instruktioner.

3. Föreskrifter för taxning och bogsering

Vid taxning eller bogsering ska luftfartygets antikollisions- och positionsljus (om sådana finns) vara påslagna.

4. Föreskrifter för markrörelser

Minsta möjliga motoreffekt ska användas vid taxning på platta Terminal, Hangar 2 och Arena. Försiktighet ska vidtas när man svänger runt på plattorna. Se upp för passagerare på plattorna.

All aircraft shall request start-up from ATC. ATC clearance will be delivered on request prior to start-up. Such clearance will be issued for RWY in use, appropriate SID or TMA exit point.

2. Taxi regulations on TWY Y

Maximum wingspan 36 m for taxiing on TWY Y. De-icing of aircraft with larger wingspan than 36 m shall contact TWR for special instructions.

3. Taxiing and towing regulations

When taxiing or towing, the aircraft's anti-collision and position lights (if equipped) shall be turned on.

4. Ground movement procedures

Engines shall be operated at minimum power required when taxiing on Apron Terminal, Hangar 2 and Arena. Caution advised when turning around on aprons. Watch out for passengers on aprons.

ESNQ 2.21 MINSKNING AV BULLERSTÖRNING

IFR som gör visuell inflygning, VA, ska i möjligaste mån undvika överflygning av Kiruna tätort.

NOISE ABATEMENT PROCEDURES

IFR making visual approach, VA, should if possible, avoid flying overhead Kiruna City.

ESNQ 2.22 FLYGPROCEDURER

1. Ankommande IFR-trafik inom Kiruna TMA/CTR

Flygvägar
Flygvägar för ankommande trafik är upprättade enligt ESNQ 4–5 till ESNQ 4–12.

2. Avgående IFR-trafik inom Kiruna TMA/CTR

Flygvägar
Flygvägar för avgående trafik är upprättade enligt ESNQ 4–9 till ESNQ 4–12.

Vid RVR understigande 350 m är start inte tillåten.

3. Startprocedurer, omnidirectional

FLIGHT PROCEDURES

1. Inbound IFR traffic within Kiruna TMA/CTR

Routes
Arrival routes are established in accordance with ESNQ 4–5 through ESNQ 4–12.

2. Outbound IFR traffic within Kiruna TMA/CTR

Routes
Departure routes are established in accordance with ESNQ 4–9 through ESNQ 4–12.

When RVR is below 350 m TKOF is not permitted.

3. Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
03	Climb straight ahead to MNM turning ALT 2800 ft. Continue climb to appropriate MSA.			
21	Climb straight ahead to MNM turning ALT 2800 ft. Continue climb to appropriate MSA.			

4. Avbrott i radioförbindelse

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

4.1 Avbruten inflygning vid radiobortfall

Flygplan med RNAV-kapacitet:

4. Communication failure

Aircraft shall adhere to the procedures stipulated in AIP ENR 1.3 para 10. In addition, in IMC the relevant procedures below shall be applied by inbound aircraft.

4.1 Missed approach in case of communication failure

ACFT with RNAV capability:

ESNK 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. Landning utanför ATS öppethållning

För landning utanför ATS öppethållning ska avsikt att landa och tid till landning tydligt aviseras på kanalen för Kramfors AFIS, följt av att banan korsas på trafikvarvshöjd + 500 ft för säkerställande av fri tillgänglighet samt för att uppmärksamma flygplatspersonal.

2. Start utanför ATS öppethållning

För start utanför ATS öppethållning ska avsikt att starta samt tid till start tydligt aviseras på kanalen för Kramfors AFIS.

LOCAL TRAFFIC REGULATIONS

1. Landing outside ATS operational hours

For landing outside ATS operational hours intention to land and time to landing shall be clearly declared on channel for Kramfors AFIS, followed by a RWY crossing at AD traffic pattern altitude + 500 ft in order to verify RWY availability and to alert AD personnel of presence.

2. Take-off outside ATS operational hours

For take-off outside ATS operational hours intention to start and time to start shall be clearly declared on channel for Kramfors AFIS.

ESNK 2.21 MINSKNING AV BULLERSTÖRNING

NIL

NOISE ABATEMENT PROCEDURES

NIL

ESNK 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
17	Climb straight ahead with MNM 220 ft/NM (3.6%) to MNM turning ALT 1700 ft. Continue climb to appropriate MSA.	Antenna Antenna Tree (CIO) Tree (CIO)	2231 1388 158 164	324°/26964 144°/15905 179°/2951 179°/3006
35	Climb straight ahead with MNM 390 ft/NM (6.4%) to MNM turning ALT 1400 ft. Continue climb to appropriate MSA.	Antenna Antenna Tree (CIO) Tree (CIO)	2231 1132 194 69	326°/28755 332°/8462 344°/3172 185°/2140

2. Lägsta RVR för avgående trafik är 550 m.

2. Minimum RVR for departing traffic is 550 m.

ESNK 2.23 ÖVRIG INFORMATION

1. Beviljade undantag

1.1 Undantag från krav i CS-ADR-DSN.M.770-stoppljus på fordonsväg.

Flygplatsen har infört operativa begränsningar så att all fordonstrafik är förbjuden inom stängslet på flygplatsområdet då siktvärdena är lägre än 550 meter.

1.2 Undantag från krav i CS-ADR-DSN.C.215-Dimension på RESA.

Vid banände för bana 35 saknas 1-10 meter av säkerhetsområdet (RESA) på östra sidan.

1.3 Undantag från krav i CS-ADR-DSN.B.090-Banytor.

På ett område öster om tröskel 17, omfattande 150 meter i längd, är stråkets plangjorda yta mellan 65-75 meter. Stråkets plangjorda yta ska enligt gällande krav vara minst 75 meter från banans centrumlinje.

ADDITIONAL INFORMATION

1. Granted exemptions

1.1 Exemptions from CS-ADR-DSN.M.770-road-holding position light.

The airport has implemented the following operational restrictions; all vehicular traffic is forbidden within the fence surrounding the airport when sight range is lower than 550 meter.

1.2 Exemptions from CS-ADR-DSN.C.215-Dimensions of RESA.

The end of runway 35 is missing 1-10 meter from security area (RESA) on the eastern side.

1.3 Exemptions from CS-ADR-DSN.B.090-Surface of runways.

On an area east of threshold 17, encompassing 150 meter in length, the runway strips plane made surface is between 65-75 meters. It should be at least 75 meter from the runway centre line.

1.4 Undantag från krav i CS-ADR-DSN.M.675-Bankantljus.

Bankantljusen är placerade 4.5 meter från rullbanans kant. Ljusen ska enligt gällande krav vara placerade på kanten av rullbanan eller på ett avstånd av hägst 3 meter utanför densamma.

1.4 Exemptions from CS-ADR-DSN.M.675-Runway edge lights.

The runways edge lights are placed 4.5 meters from the edge of the runway. Current regulation states that they should be placed on distance not exceeding 3 meters from the edge of the runway.

ESNK 2.24 TILLHÖRANDE KARTOR RELATED CHARTS

AD chart		ESNK 2-1
AOC	RWY 17/35	ESNK-3-1
List of waypoints and significant points		ESNK 4-3
IAC	ILS or LOC RWY 35	ESNK 5-1
IAC	NDB RWY 35	ESNK 5-2
IAC	LOC RWY 17	ESNK 5-3
IAC	NDB RWY 17	ESNK 5-4
IAC	RNP RWY 17	ESNK 5-5
IAC	RNP RWY 35	ESNK 5-9
VAC		ESNK 6-1

4.	Secondary power supply/switch-over time	Available/15 sec
5.	Remarks	-

ESTL 2.16 HELICOPTER LANDING AREA

RWY 11R/29L to be used

ESTL 2.17 ATS AIRSPACE

1.	Designation and lateral limits	LJUNGBYHED CTR	560918N 0130132E - 560730N 0131850E - 560503N 0132709E - 555903N 0132130E - 560130N 0130750E - 560514N 0125857E - 560918N 0130132E
2.	Vertical limits	LJUNGBYHED CTR	1500 ft AMSL / GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	LJUNGBYHED TOWER Swedish/English	
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	CTR established during hours of TWR.	

ESTL 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	LJUNGBYHED TOWER	130.705	HO	Primary channel
		129.705	HX	-
		121.500	HO	-
	LJUNGBYHED GROUND	121.655	HX	Taxi freq
APP	LJUNGBYHED APPROACH	129.555	HO	-
ATIS	LJUNGBYHED ATIS	132.755	HO	-

ESTL 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
LOC 29L ILS CAT I (5° E 2025)	DA	108.55 MHz	H24 *	560518.9N 0131022.3E		569 m beyond THR 11R ILS Class I/D/2
GP		329.75 MHz	H24 *	560453.0N 0131224.1E		Angle 3.0° RDH 50.9 ft 303 m past THR 29L right side
DME	DA	108.55 MHz	H24 *	560453.1N 0131224.2E	169 ft	303 m past THR 29L right side. DME channel 22Y

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

ESTL 2.20 LOKALA TRAFIKFÖRESKRIFTER

1 Högervarv tillämpas när RWY 29L/R är i användning.

2 Flygtrafik utanför ATS öppethållning

- Flygplatsens medgivande krävs för flygtrafik.
- Start och landning får endast ske när sikten överstiger 800 m.
- Ingen flygtrafik får förekomma i skymning och mörker.
- All flygtrafik inom CTR ska blindsända sin avsikt på kanal 130.705.
- Markfordon kan förekomma utan dubbelriktad flygradioförbindelse.

LOCAL TRAFFIC REGULATIONS

1 Right hand traffic circuit when RWY 29L/R is in use.

2 Air traffic outside ATS hours of operation

- Aerodrome consent is required for all traffic.
- Take-off or landing may only take place when visibility exceeds 800 m.
- No traffic may take place during twilight and darkness.
- All traffic within the CTR must transmit their intention on channel 130.705.
- Ground vehicles can occur without two-way VHF communication.

ESTL 2.21 MINSKNING AV BULLERSTÖRNING

Full banlängd skall användas vid start RWY 29L för att undvika bullerstörningar.

NOISE ABATEMENT PROCEDURES

Full runway length shall be used for departure RWY 29L to avoid noise disturbance.

ESTL 2.22 FLYGPROCEDURER

1 Startprocedurer, omnidirectional

FLIGHT PROCEDURES

1 Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
11R	Climb straight ahead to MNM turning ALT 800 ft. Continue climb to appropriate MSA.	Antenna CIO exists	853	210°/3398
29L	Climb straight ahead to MNM turning ALT 900 ft. Continue climb to appropriate MSA.	Antenna CIO exists	828	251°/4256

2 VFR-flygning inom Ljungbyhed CTR

Normala in- och utpasseringspunkter
Se ESTL 6–1

Väntlägen
Se ESTL 6–1

Avbrott i radioförbindelse
Se ESTL 6–1

2 VFR flight within Ljungbyhed CTR

Normal entry and exit points
See ESTL 6–1

Holdings
See ESTL 6–1

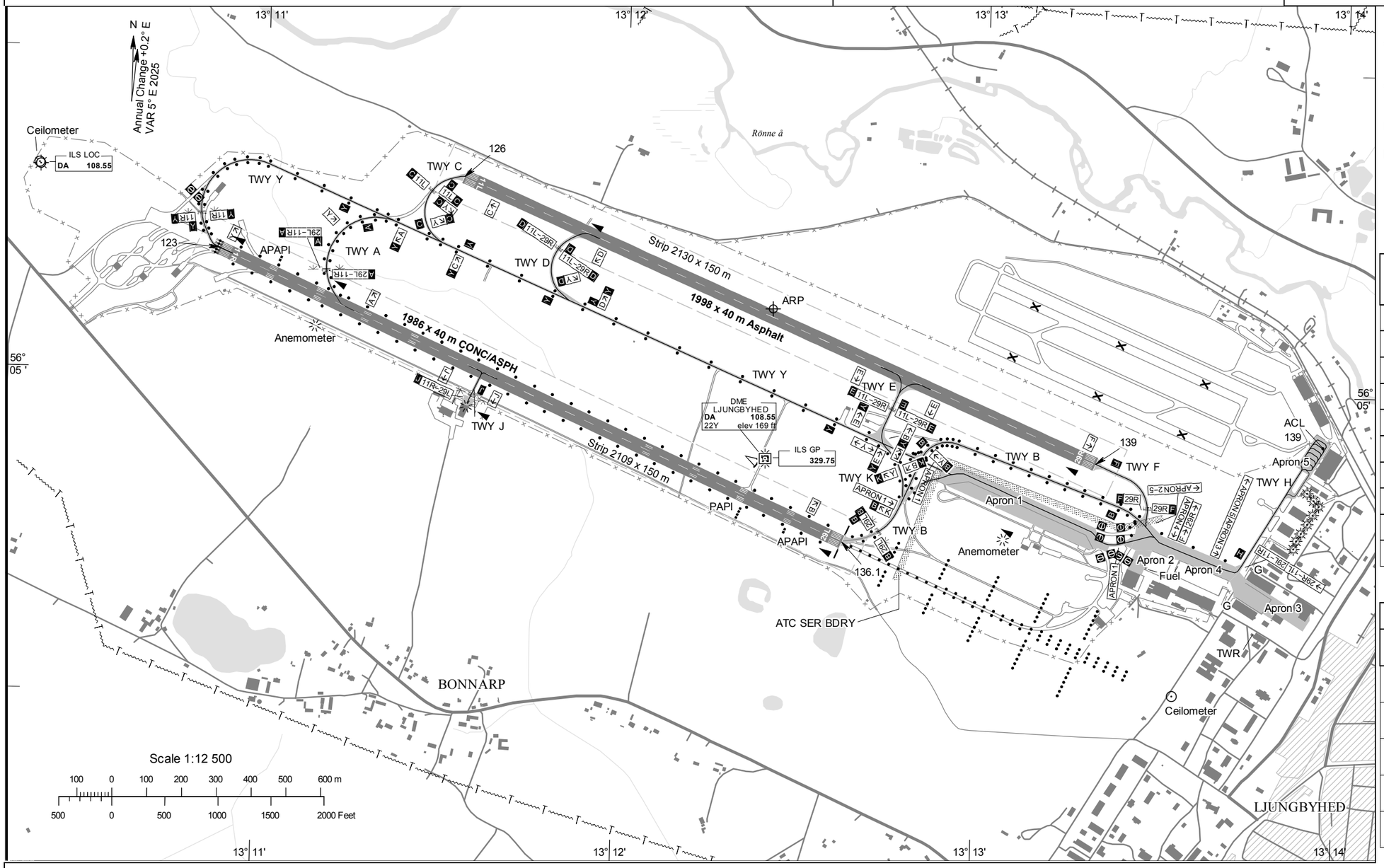
Communication failure
See ESTL 6–1

ESTL 2.23 ÖVRIG INFORMATION

Flygplatsen är ej tillgänglig när RVR understiger 800 m.

ADDITIONAL INFORMATION

Aerodrome is not available when RVR is less than 800 m.



ARP 560507N 0131225E

AD ELEV 139 FEET

LEGEND See GEN 2.3

Dimensions in m, ELEV in ft

TWY NR	WIDTH	Surface Bearing strength	Day marking	Taxiway lighting	
			Centerline Holding	Edge Centerline	RGL Stopbar
A	8 m	CONC PCN	CL HLDG	EDGE	RGL
B	10 m	CONC+ASPH PCN	CL HLDG	EDGE	RGL
C	8 m	CONC PCN	CL HLDG		
D	10 m	CONC PCN	CL HLDG		
E	10 m	CONC PCN	CL HLDG		
F	10 m	CONC PCN	CL HLDG		
H	8 m	ASPH PCN	CL		
J	4.8 m	ASPH PCN	CL HLDG		RGL
K	8 m	CONC PCN	CL	EDGE	
Y	8 m	CONC+ASPH PCN	CL HLDG	EDGE	RGL

INS Coordinates for Aircraft Stands			
APRON Surface Bearing strength	NR	COORD	ELEV
1 CONC PCN			
2 CONC PCN			
3 CONC PCN			
4 CONC PCN			
5 CONC PCN			

RWY NR	TRUE & MAG BRG	THR PSN Geoid undulation	Bearing strength	THR ELEV and highest ELEV of TDZ of precision APCH RWY	Declared distances				Approach and runway lighting				
					TORA	TODA	ASDA	LDA	APCH	THR TRID TDZ	VASIS (MEHT)	Edge	End
11R	113.86° GEO 109° MAG	560511.45N 0131052.36E GUND 119 ft	PCN 25 R/B/X/T	THR 123 ft	1986	1986	1986	1986		THR Green	APAPI Left/3.00°	1986/60 m White Caution zone 600 m yellow LIH	Red
29L	293.89° GEO 289° MAG	560445.46N 0131237.35E GUND 119.3 ft	PCN 25 R/B/X/T	THR 136.1 ft TDZ 136 ft	1986	1986	1986	1986	Calvert Cat I 750 m LIL/LIH	THR Green WBAR	PAPI Left/3.00° (57.4 ft)	1986/60 m White Caution zone 600 m yellow LIH	Red
11L	113.04° GEO 108° MAG	560518.61N 0131133.02E GUND 119 ft	PCN 25 R/B/X/T	THR 126 ft	1998	1998	1998	1998					
29R	293.06° GEO 288° MAG	560453.31N 0131319.36E GUND 119 ft	PCN 25 R/B/X/T	THR 139 ft	1998	1998	1998	1998					

List of waypoints and significant points at LJUNGBYHED (ESTL)

WPT	Coordinates
RW11R	560511.45N 0131052.36E
RW29L	560445.46N 0131237.35E
TL550	560226.9N 0132154.3E
TL551	560101.6N 0132736.1E
TL553	555948.1N 0133228.7E
TL554	555722.8N 0132441.9E
TL600	560332.6N 0131731.0E
TL850	560624.0N 0130558.4E
TL900	560730.1N 0130129.7E
TL901	560854.4N 0125546.0E
TL902	560515.1N 0125253.6E
TL903	561006.4N 0125051.1E
TL904	561233.6N 0125839.0E
JANDA	560440.2N 0133030.9E
SOGJU	560459.2N 0131204.5E

AD 2 AERODROMES

ESNL 2.1 AERODROME LOCATION INDICATOR AND NAME

ESNL – LYCKSELE

ESNL 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	**ARP coordinates and site at AD**	**643251N 0184304E RWY 700 m from THR 32**
2.	**Direction and distance from (city)**	**SSE 3.0 NM from Lycksele**
3.	**Elevation/Reference temperature**	**705 ft/+18.5°C**
4.	**Geoid undulation at AD ELEV PSN**	**90 ft**
5.	**MAG VAR/Annual change**	**8° E 2020/+0.2 increasing**
6.	**Administration, address, telephone, fax, AFS**	**Lycksele Airport AB SE-921 81 Lycksele TEL: +46 (0)950 275 55 E-mail: info@lyckseleairport.se AFS: ESNLZTZX Website: www.lyckseleairport.se**
7.	**Types of traffic permitted (IFR/VFR)**	**IFR/VFR. Max RWY ref code 4C**
8.	**Remarks**	**-**

ESNL 2.3 OPERATIONAL HOURS

1.	**AD Administration AD Operating hours**	**No specific hours H24**
2.	**Customs and immigration**	**-**
3.	**Health and sanitation**	**-**
4.	**AIS Briefing Office**	**FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc**
5.	**ATS Reporting Office (ARO)**	**As ATS**
6.	**MET Briefing Office**	**FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc**
7.	**ATS**	**Ref AIP SUP/NOTAM**
8.	**Fuelling**	**As AD Operating hours**
9.	**Handling**	**O/R**
10.	**Security**	**O/R**
11.	**De-Icing**	**O/R**
12.	**Remarks**	**-**

ESNL 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: 56 000 l pressure fuelling and overwing fuelling** **100LL: 2400 l mobile 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**	**-**
7.	**Remarks**	**Fuel supplier Jet A1, AIR BP** **H24 Self-service Jet A1 via Carnet** **Fuel supplier 100LL, Lycksele Airport** **For payment of 100LL only major credit cards or payment via Swish accepted.**

ESNL 2.5 PASSENGER FACILITIES

1.	**Hotels**	**In Lycksele**
2.	**Restaurants**	**In Lycksele**
3.	**Transportation**	**Taxis, rental car pre-booking**
4.	**Medical facilities**	**In Lycksele**
5.	**Bank and Post Office**	**In Lycksele**
6.	**Tourist Office**	**In Lycksele**
7.	**Remarks**	**-**

ESNL 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	**AD category for fire fighting**	**CAT 5 for scheduled traffic, Higher O/R, max CAT 7.** **Other traffic O/R.**
2.	**Rescue equipment**	**By arrangement, municipal rescue service**
3.	**Capability for removal of disabled aircraft**	**By arrangement, Duty Officer during AD operating hours. TEL +46 (0)950 162 80.**
4.	**Remarks**	**RFFS only during ATS operational hours.** **During periods of reduced aerodrome activity, RFFS level of protection may be lowered to a level corresponding to the largest aircraft using the aerodrome during that period.**

ESNL 2.7 SEASONAL AVAILABILITY – CLEARING

1.	**Types of clearing equipment**	**Snowploughs, blowers, sweepers, slingers**
2.	**Clearance priorities**	**RWY, TWY, Apron**
3.	**Remarks**	**RWY, TWY and apron de-iced with sand/UREA.**

ESNL 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT Type, LEN INTST	THR LGT Colour WBAR	VASIS (MEHT)	TDZ LGT LEN	RWY Centre Line LGT LEN, Spacing Colour INTST	RWY Edge LGT LEN, Spacing Colour INTST	RWY End LGT Colour WBAR	SWY LGT LEN, Colour
1	2	3	4	5	6	7	8	9
14	Barrette CL CAT I 720 m LIH	Green	PAPI Left/3.50° (50.0 ft)	-	-	2092/60 m White Caution zone 600 m yellow LIL/LIH	Red	-
32	Barrette CL SALS 180 m LIH	Green	PAPI Left/3.00° (50.0 ft)	-	-	2092/60 m White Caution zone 600 m yellow LIL/LIH	Red	-

10 Remarks:
RWY 14: PCL PAPI 10 percent, LIL RWY and TWY on channel 122.230, 10 sec duration
RWY 32: TRID White LIH
PCL LIL RWY and TWY on channel 122.230, 10 sec duration

ESNL 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1.	**ABN/IBN location, characteristics and hours of operation**	**-**
2.	**LDI location and LGT**	**Lighted windsock at PAPI 14. Unlighted windsocks at THR 14 and THR 32.**
	Anemometer location and LGT	**At aiming points, lighted.**
3.	**TWY edge and centre line lighting**	**Edge: TWY A**
		CL: -
4.	**Secondary power supply/switch-over time**	**Available/15 sec, 1 sec O/R**
5.	**Remarks**	**-**

ESNL 2.16 HELICOPTER LANDING AREA

RWY 14/32 to be used

ESNL 2.17 ATS AIRSPACE

1.	**Designation and lateral limits**	**LYCKSELE TIZ/RMZ**	**643911N 0183455E - 643617N 0185057E - 642539N 0185926E - 642358N 0185410E - 643037N 0183315E - 643758N 0183104E - 643911N 0183455E**
2.	**Vertical limits**	**LYCKSELE TIZ/RMZ**	**2700 ft AMSL** **GND**
3.	**Airspace classification**	**G**	
4.	**ATS unit call sign** **Language(s)**	**LYCKSELE INFORMATION** **Swedish/English**	
5.	**Transition altitude**	**5000 ft AMSL**	
6.	**Remarks**	**Continuous two-way radiocommunication required in TIZ/RMZ. TIZ/RMZ established during hours of AFIS.**	

ESNL 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
AFIS	LYCKSELE INFORMATION	122.230	HO	-
		121.500	HO	-

ESNL 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
LOC 14 ILS CAT I (8° E 2020)	WL	108.70 MHz	H24	643228.8N 0184342.6E		151 m beyond THR 32 ILS Class I/E/2
GP		330.50 MHz	H24	643314.9N 0184232.8E		Angle 3.5° RDH 50.9 ft 301 m past THR 14 left side During winter angle may vary BTN 3.50° and 3.80° due to snow.
L 14	DD	333 kHz	H24	643559.7N 0183732.1E		Range 25 NM
LOC 32 (8° E 2020)	NL	110.50 MHz	H24	643328.6N 0184157.6E		319 m beyond THR 14
LO 32	OL	320 kHz	H24	642953.4N 0184808.8E		Range 15 NM
DME	NL	110.50 MHz	H24	643248.4N 0184258.1E	703 ft	Unlocks may occur outside 017° left of RWY CL at 17 NM from station and also S of RWY CL at 25 NM from station. Abeam ARP SW RWY DME channel 42X
DME	WL	108.70 MHz	H24	643315.1N 0184233.1E	724 ft	Low signal Right hand side of CL beyond 17 NM and below 6300 ft. Colocated with ILS GP 14 DME channel 24X

ESNL 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. Samtliga luftfartyg som avser trafikera Lycksele flygplats ska vara utrustade med VHF flygradioutrustning som medger dubbelriktad radioförbindelse på kanal 122.230 samt 121.500. Detta gäller även utanför ATS publicerad öppethållning.

2. Klarering före uttaxning

Klarering för IFR-trafik lämnas vid begäran om start-up. Uppgift om transponderkod lämnas under uttaxning.

3. VHF flygradio kanal 122.230 avlyssnas av markpersonal utanför ATS publicerad öppethållning vid beträdande av manöverområdet.

LOCAL TRAFFIC REGULATIONS

1. All aircraft operating to and from Lycksele Aerodrome must be equipped with VHF-radio which allows two-way radio communication on channel 122.230 and 121.500. This is also mandatory outside ATS hours of operation.

2. Clearance at gate

ATC clearance for IFR traffic will be delivered on request at start-up. Transponder code will be delivered during taxi.

3. VHF channel 122.230 is monitored by ground personnel outside ATS hours of operation when entering AD manoeuvering area.

ESNL 2.21 MINSKNING AV BULLERSTÖRNING

NIL

NOISE ABATEMENT PROCEDURES

NIL

ESNL 2.22 FLYGPROCEDURER

Startprocedurer, omnidirectional

FLIGHT PROCEDURES

Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
14	Climb straight ahead with MNM 330 ft/NM (5.3%) to MNM turning ALT 2100 ft. Continue climb to appropriate MSA.	Tree Antenna	1096 2600	154°/4774 213°/10201
32	Climb straight ahead with MNM 580 ft/NM (9.5%) to MNM turning ALT 1900 ft. Continue climb to appropriate MSA.	Tree Tree (CIO) Antenna	977 744 2600	315°/3019 319°/2215 225°/9703

ESNL 2.23 ÖVRIG INFORMATION

1. Lägsta RVR för avgående trafik är 550 m.

2. Flygplatsinformation för besättning utanför flygplatsens öppethållningstid

Flygplatsinformation för besättning utanför flygplatsens öppethållningstid finns i metallskåp markerat med ”Crew” symbol. Skåpet är placerat inuti södra delen av tankanläggningsbyggnaden vid plats 1.

3. Beviljande undantag från krav i CS-ADR-DSN

- Fasta hinder genomtränger hinderbegränsade ytor.
- Längdlutningen uppfyller inte kraven på de första 150 m av bana 14 och de sista 150 m av bana 32.

ADDITIONAL INFORMATION

1. Minimum RVR for departing traffic is 550 m.

2. AD information for crew outside AD opening hours

AD information for visiting crew members outside AD opening hours is available in metal box marked with a “Crew” symbol. The box is located inside the fuel station adjacent to stand 1.

3. Granted exemptions from requirements in CS-ADR-DSN

- Fixed obstacles penetrate the obstacle limitation surfaces.
- Longitudinal slope does not fulfil the requirements during the first 150 m of RWY 14 and the last 150 m of RWY 32.

ESNL 2.24 TILLHÖRANDE KARTOR

RELATED CHARTS

AD chart		ESNL 2-1
AOC	RWY 14	ESNL-3-1
AOC	RWY 32	ESNL-3-3
List of waypoints and significant points		ESNL 4-3
IAC	ILS z or LOC z RWY 14	ESNL 5-1
IAC	ILS y or LOC y RWY 14	ESNL 5-2
IAC	NDB RWY 14	ESNL 5-3
IAC	LOC z RWY 32	ESNL 5-4
IAC	LOC y RWY 32	ESNL 5-5
IAC	NDB RWY 32	ESNL 5-6
IAC	RNP RWY 14	ESNL 5-7
IAC	RNP RWY 32	ESNL 5-11
VAC		ESNL 6-1

ESNL 2.25 GENOMTRÄNGADE AV YTAN FÖR VISUELLA SEGMENTET (VSS)

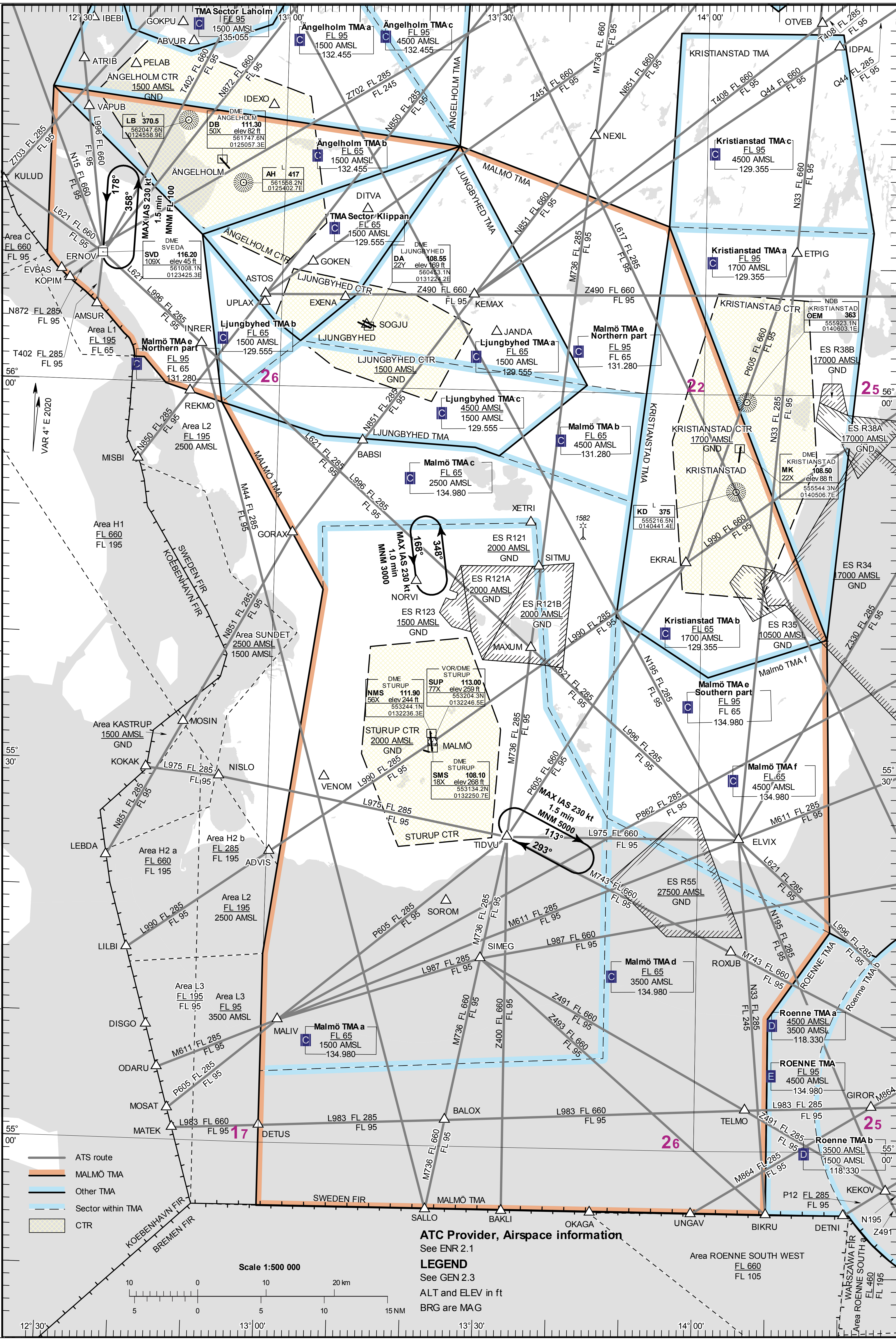
NDB RWY 14 och RNP (LNAV) RWY 14

Terräng och vegetation från 1.1 NM till 0.3 NM före bantröskel genomträger ytan för visuella segmentet.

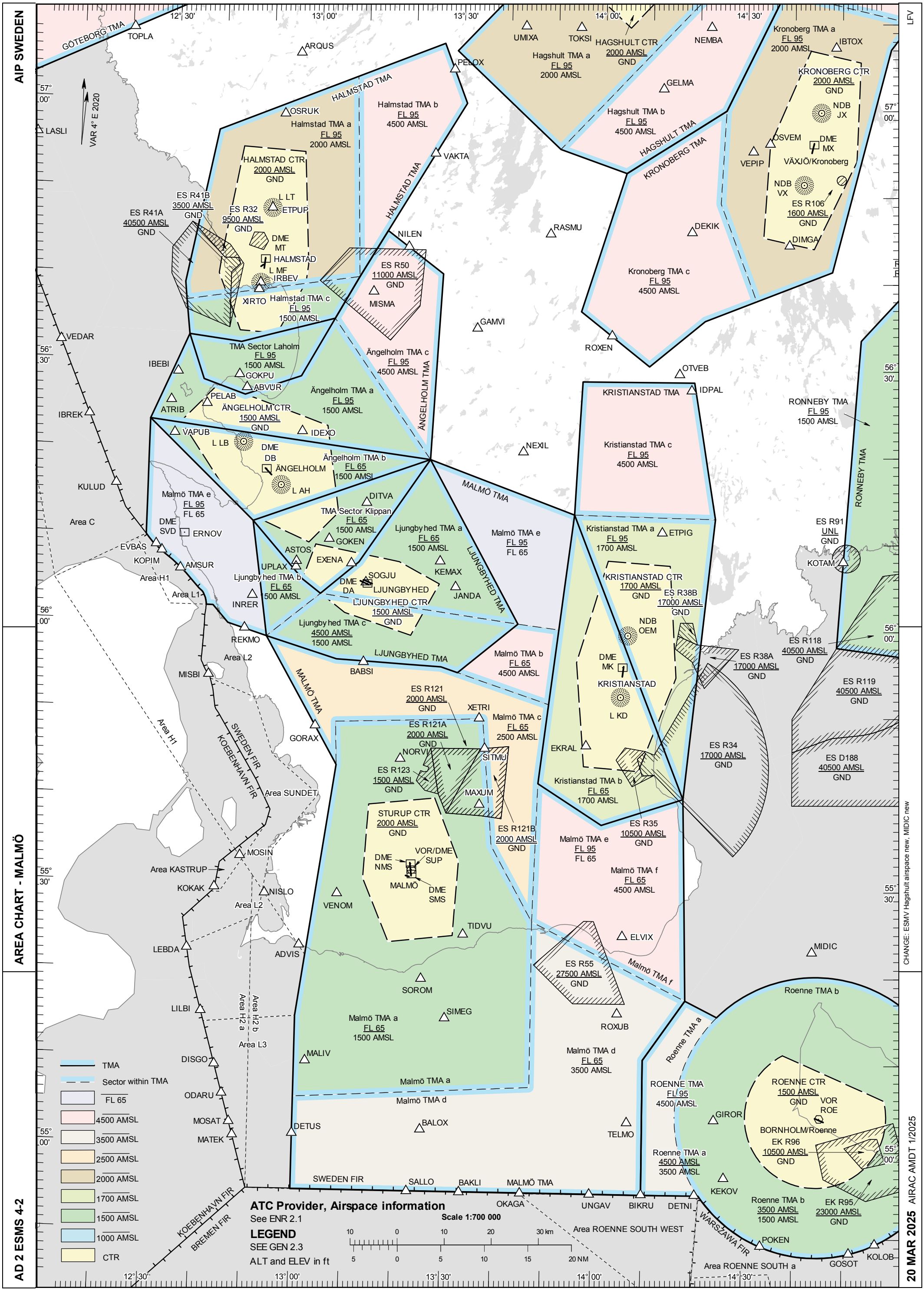
VISUAL SEGMENT SURFACE (VSS) PENETRATION

NDB RWY 14 och RNP (LNAV) RWY 14

Terrain and vegetation from 1.1 NM to 0.3 NM prior to THR penetrates visual segment surface.



CHANGE: VOR/DME LJU withdrawn, SOGJU new


GÖTEBORG TMA
TOPLA
ARQUS
PELOX
UMIXA
TOKSI
HAGSHULT CTR
2000 AMSL
GND
NEMBA
Kronoberg TMA a
FL 95
2000 AMSL
IBTOX
Hagshult TMA a
FL 95
2000 AMSL
GELMA
KRONOBERG CTR
2000 AMSL
GND
NDB
JX
Hagshult TMA b
FL 95
4500 AMSL
HAGSHULT TMA
KRONOBERG TMA
OSVEM
DME
MX
VÄXJÖ/Kronoberg
VEPIP
NDB
VX
ES R106
1600 AMSL
GND
DIMGA
DEKIK
RASMU
HALMSTAD TMA
Halmstad TMA b
FL 95
4500 AMSL
Halmstad TMA a
FL 95
2000 AMSL
OSRUK
HALMSTAD CTR
2000 AMSL
GND
L LT
ETPUP
ES R41B
3500 AMSL
GND
ES R41A
40500 AMSL
GND
ES R32
9500 AMSL
GND
DME
MT
HALMSTAD
L MF
IRBEV
XIRTO
Halmstad TMA c
FL 95
1500 AMSL
VAKTA
NILEN
ES R50
11000 AMSL
GND
MISMA
Kronoberg TMA c
FL 95
4500 AMSL
GAMVI
ROXEN
VEDAR
TMA Sector Laholm
FL 95
1500 AMSL
GOKPU
ABVUR
IBEBI
PELAB
ATRIB
ÄNGELHOLM CTR
1500 AMSL
GND
IDEXO
Ängelholm TMA a
FL 95
1500 AMSL
Ängelholm TMA c
FL 95
4500 AMSL
ÄNGELHOLM TMA
OTVEB
IDPAL
KRISTIANSTAD TMA
RONNEBY TMA
FL 95
1500 AMSL
IBREK
VAPUB
L LB
DME
DB
ÄNGELHOLM
L AH
Ängelholm TMA b
FL 65
1500 AMSL
NEXIL
Kristianstad TMA c
FL 95
4500 AMSL
KULUD
Malmö TMA e
FL 95
FL 65
DME
SVD
ERNOV
Area C
DITVA
TMA Sector Klippan
FL 65
1500 AMSL
GOKEN
MALMÖ TMA
RONNEBY TMA
ES R91
UNL
GND
KOTAM
Kristianstad TMA a
FL 95
1700 AMSL
ETPIG
EVBAS
KOPIM
AMSUR
Area H1
Area L1
ASTOS
EXENA
UPLAX
Ljungbyhed TMA a
FL 65
1500 AMSL
Malmö TMA e
FL 95
FL 65
LJUNGBYHED TMA
SOGJU
DME
DA
LJUNGBYHED
KEMAX
JANDA
Ljungbyhed TMA b
FL 65
500 AMSL
INRER
LJUNGBYHED CTR
1500 AMSL
GND
KRISTIANSTAD CTR
1700 AMSL
GND
ES R38B
17000 AMSL
GND
Ljungbyhed TMA c
4500 AMSL
1500 AMSL
REKMO
NDB
OEM
ES R118
40500 AMSL
GND
Area L2
LJUNGBYHED TMA
Malmö TMA b
FL 65
4500 AMSL
BABSI
MISBI
MALMÖ TMA
DME
MK
KRISTIANSTAD
L KD
ES R119
40500 AMSL
GND
ES R121
2000 AMSL
GND
XETRI
Malmö TMA c
FL 65
2500 AMSL
ES R121A
2000 AMSL
GND
NORVI
SITMU
EKRAL
ES R34
17000 AMSL
GND
Area H1
SWEDEN FIR
KOEBENHAVN FIR
GORAX
ES R123
1500 AMSL
GND
MAXUM
Kristianstad TMA b
FL 65
1700 AMSL
Area SUNDET
STURUP CTR
2000 AMSL
GND
ES R121B
2000 AMSL
GND
ES R35
10500 AMSL
GND
ES D188
40500 AMSL
GND
VOR/DME
SUP
DME
NMS
MALMÖ
DME
SMS
MOSIN
Area KASTRUP
KOKAK
NISLO
Area L2
VENOM
Malmö TMA e
FL 95
FL 65
Malmö TMA f
FL 65
4500 AMSL
TIDVU
ELVIX
MIDIC
LEBDA
ADVIS
ES R55
27500 AMSL
GND
Malmö TMA f
SOROM
Area H2 a
Area H2 b
LILBI
SIMEG
Malmö TMA a
FL 65
1500 AMSL
ROXUB
Roenne TMA b
Roenne TMA a
Area L3
DISGO
MALIV
Malmö TMA d
FL 65
3500 AMSL
ROENNE TMA
FL 95
4500 AMSL
ROENNE CTR
1500 AMSL
GND
VOR
ROE
ODARU
Malmö TMA a
Malmö TMA d
GIROR
BORNHOLM/Roenne
EK R96
10500 AMSL
GND
MOSAT
MATEK
DETUS
BALOX
TELMO
Roenne TMA a
4500 AMSL
3500 AMSL
KEKOV
Roenne TMA b
3500 AMSL
1500 AMSL
EK R95
23000 AMSL
GND
SWEDEN FIR
SALLO
BAKLI
MALMÖ TMA
OKAGA
UNGAV
BIKRU
DETNI
WARSZAWA FIR
POKEN
GOSOT
KOLOB
KOEBENHAVN FIR
BREMEN FIR
Area ROENNE SOUTH WEST
Area ROENNE SOUTH a
VAR 4° E 2020
TMA
Sector within TMA
FL 65
4500 AMSL
3500 AMSL
2500 AMSL
2000 AMSL
1700 AMSL
1500 AMSL
1000 AMSL
CTR
ATC Provider, Airspace information
See ENR 2.1
LEGEND
SEE GEN 2.3
ALT and ELEV in ft
Scale 1:700 000
10 0 10 20 30 km
5 0 5 10 15 20 NM
12° 30'
13° 00'
13° 30'
14° 00'
14° 30'
57° 00'
56° 30'
56° 00'
55° 30'
55° 00'

VISUAL APPROACH CHART - ICAO

1:250000

1 0 1 2 3 4 5 km

1 0 1 2 3 NM

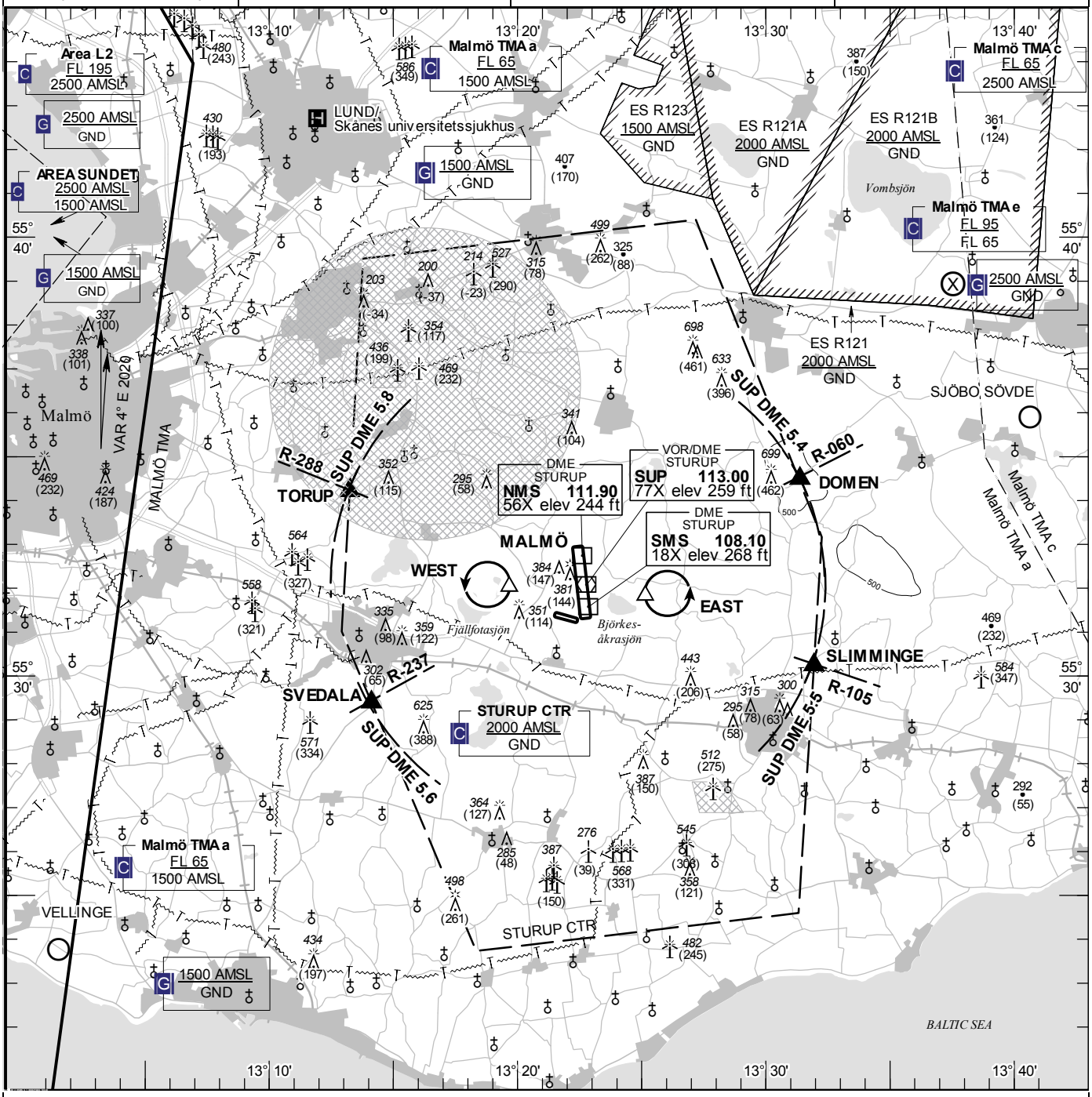
AD ELEV 237 FEET

ELEV and ALT in ft
HGT in ft above AD ELEV

TA 5000 AMSL

STURUP TOWER	**118.805**
	121.705
STURUP ATIS	**129.280**

MALMÖ SWEDEN



Communication failure

Aircraft outside CTR having received no clearance should land at an aerodrome outside CTR and obtain clearance by telephone for further flight to MALMÖ.

If no suitable aerodrome is within reach;

1. SQUAWK 7600
2. Enter CTR via DOMEN or SLIMMINGE to holding EAST at or below 1500 ft AMSL.
   Transmit blind your intentions.
3. Flash LDG-lights and watch for optical signals from signaling lamp, from the camera installation placed on top of the remote tower (position marked R-TWR on AD Chart) or from local tower.

Remark

NIL

RWY NR	THR ELEV	PAPI (MEHT)
17	208.8 ft	Left/3.00° (59 ft)
35	236.3 ft	Left/3.00° (60 ft)
11	232 ft	NIL
29	228 ft	NIL

Legend

See GEN 2.3

Entry / exit point

DOMEN	553429N 0133122E
SLIMMINGE	553014N 0133156E
SVEDALA	552923N 0131407E
TORUP	553412N 0131314E

Holding

WEST: Hold west of the eastern shoreline of lake Fjällfotasjön, west of point 553206N 0131939E

EAST: Hold east of lake Björkesåkrasjön, east of point 553149N 0132509E

AD 2 AERODROMES

ESKM 2.1 AERODROME LOCATION INDICATOR AND NAME

ESKM – MORA/SILJAN

ESKM 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	ARP coordinates and site at AD	605731N 0143038E RWY centre point
2.	Direction and distance from (city)	SSW 3.3 NM from Mora
3.	Elevation/Reference temperature	635 ft/+22.0°C
4.	Geoid undulation at AD ELEV PSN	102 ft
5.	MAG VAR/Annual change	6° E 2025/+0.2 increasing
6.	Administration, address, telephone, fax, AFS	AB Dalaflyget Mora Airport SE-792 91 Mora TEL: +46 (0)250 393 01 E-mail: mxxinfo@dalaflyget.se AFS: ESKMZTZX Website: www.dalaflyget.se
7.	Types of traffic permitted (IFR/VFR)	IFR/VFR. Max RWY ref code 4C
8.	Remarks	IFR traffic requires ATS availability. VFR traffic outside ATS hours upon PIC discretion.

ESKM 2.3 OPERATIONAL HOURS

1.	AD Administration AD Operating hours	MON-FRI 0600-1800 (0500-1700) 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)	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	Ref AIP SUP/NOTAM
9.	Handling	As AD Administration
10.	Security	As AD Administration
11.	De-Icing	As ATS
12.	Remarks	Increased charges outside AFIS HR of OPS.

ESKM 2.4 HANDLING SERVICES AND FACILITIES

1.	Cargo-handling facilities	Limited
2.	Fuel/oil types	Fuel Jet A1, 100LL Oil -
3.	Fuelling facilities/discharge capacity	Jet A1: 20,000 l stationary (100 l/min), 7500 l in fuel truck (130 l/min) 100LL: 20,000 l stationary (100 l/min)
4.	De-icing facilities	Available, Type I and II, mobile unit
5.	Hangar space for visiting ACFT	Limited
6.	Repair facilities for visiting ACFT	-
7.	Remarks	Visa, Mastercard and Swish accepted for payment of services. Fuel self-service available after agreement. Electrical charging poles, type 2 and 220/380V connectors, available in north apron area.

ESKM 2.5 PASSENGER FACILITIES

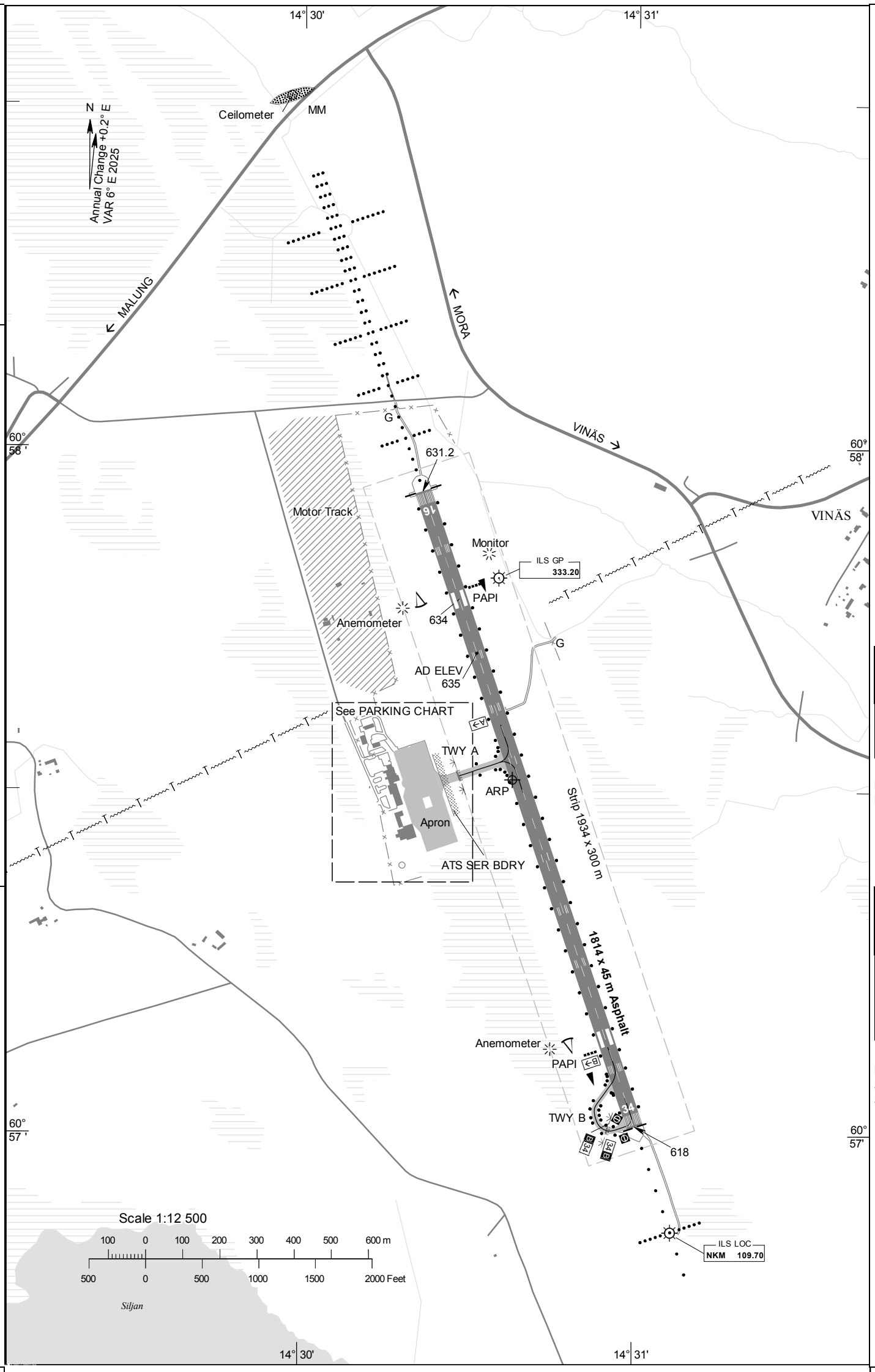
1.	Hotels	In Mora
2.	Restaurants	In Mora
3.	Transportation	Taxis, rental cars
4.	Medical facilities	In Mora
5.	Bank and Post Office	In Mora
6.	Tourist Office	In Mora
7.	Remarks	-

ESKM 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	CAT 3. Higher O/R. MAX CAT 7.
2.	Rescue equipment	RFFS vehicles + municipal RFFS
3.	Capability for removal of disabled aircraft	Local equipment for Beech 1900. Contact ESKM: +46 (0)72 249 85 04 or +46 (0)70 561 25 10.
4.	Remarks	No RFFS available for NCC, NCO and SPO, unless requested.

ESKM 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	Ploughs, sweepers, blowers, snow throwers, spreaders
2.	Clearance priorities	RWY, TWY, Apron
3.	Remarks	Limited clearing outside AD administration hours



ARP 605731N 0143038E

AD ELEV 635 FEET

LEGEND See GEN 2.3

Dimensions in m, ELEV in ft

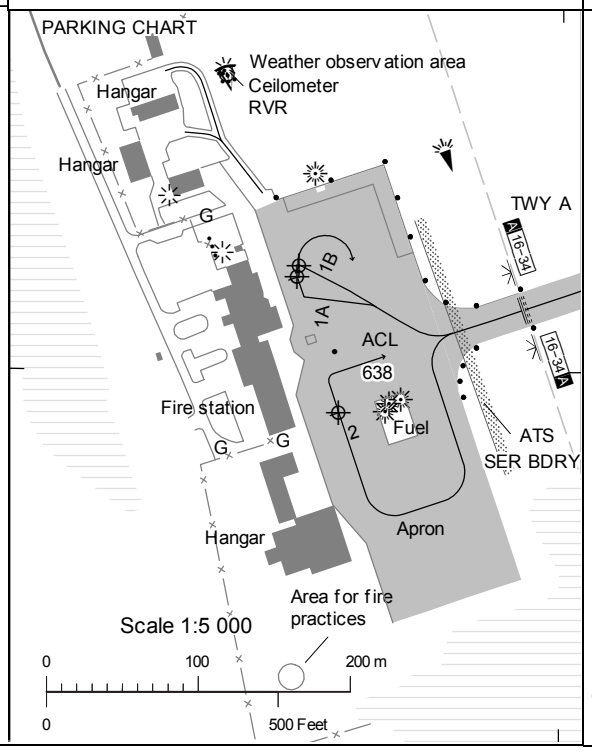
TWY NR	WIDTH	Surface Bearing strength	Day marking	Taxiway lighting	
			Centerline Holding	Edge Centerline	RGL Stopbar
A	23 m	ASPH PCN 15 F/B/X/U	CL HLDG	EDGE	RGL
B	15 m	ASPH PCN 15 F/B/X/U	CL HLDG	EDGE	RGL

REMARK: TWY B only approved for ACFT with Max outer main gear wheel span < 9 m

INS Coordinates for Aircraft Stands			
APRON Surface Bearing strength	NR	COORD	ELEV
ASPH PCN 15 F/B/X/U	1A	605731.99N 0143018.39E	639
	1B	605732.23N 0143018.47E	639
ASPH PCN 10 F/B/X/U	2	605729.11N 0143020.25E	639

REMARK: Stand 1A for ACFT of max span 17m
Stand 1B and 2 for acft of max span 36 m
Stand 1A and 1B requires PPR

RWY NR	TRUE & MAG BRG	THR PSN Geoid undulation	Bearing strength	THR ELEV and highest ELEV of TDZ of precision APCH RWY	Declared distances				Approach and runway lighting				
					TORA	TODA	ASDA	LDA	APCH	THR TRID TDZ	VASIS (MEHT)	Edge	End
16	161.22° GEO 155° MAG	605756.21N 0143021.57E GUND 102.1 ft	PCN 30 F/B/X/U	THR 631.2 ft TDZ 635.0 ft	1814	1814	1814	1814	Calvert Cat I 900 m LIL/LIH	THR Green	PAPI Left/3.00° (51.5 ft)	1814/60 m White Caution zone 600 m yellow LIL/LIH	Red
34	341.23° GEO 335° MAG	605700.72N 0143100.37E GUND 102 ft	PCN 30 F/B/X/U	THR 618 ft	1814	1814	1814	1814	SALS 420 m LIL/LIH	THR Green	PAPI Left/3.70° (45.9 ft)	1814/60 m White Caution zone 600 m yellow LIL/LIH	Red



ESSP 2.11 METEOROLOGICAL INFORMATION PROVIDED

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

ESSP 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	090.86° GEO 085° MAG	2205 x 45	PCN 55 F/B/X/T ASPH	583510.01N 0161354.08E GUND 91.8 ft	THR 13.3 ft TDZ 13.3 ft
27	270.89° GEO 265° MAG	2205 x 45	PCN 55 F/B/X/T ASPH	583508.92N 0161610.53E GUND 91.6 ft	THR 32.3 ft TDZ 32.3 ft
11	115.60° GEO 110° MAG	600 x 35	PCN - GRASS	583524.3N 0161411.4E GUND 92 ft	THR 6 ft
29	295.61° GEO 290° MAG	600 x 35	PCN - GRASS	583516.0N 0161444.8E GUND 92 ft	THR 8 ft

Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
09 See ESSP AOC	-	-	2355 x 300	-	-
27 See ESSP AOC	-	-	2355 x 300	-	-
11	-	-	660 x 150	-	Non instrument.
29	-	-	660 x 150	-	Non instrument.

ESSP 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
09	2205	2205	2205	2205	-
27	2205	2205	2205	2205	-
11	600	600	600	600	-
29	600	600	600	600	-

ESSP 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	Calvert CAT I 540 m LIH	Green	PAPI Left/3.00° (55.8 ft)	-	-	2205/60 m White Caution zone Yellow LIH	Red	-
27	Calvert CAT I 900 m LIH	Green	PAPI Left/3.00° (55.8 ft)	-	-	2205/60 m White Caution zone Yellow LIH	Red	-

10 Remarks:
RWY 09: LED lights on RTHL, REDL, RENL
RWY 27: LED lights on RTHL, REDL, RENL
RWY 11: Not lighted
RWY 29: Not lighted

ESSP 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	Windsocks at THRs RWY 09/27 left side, no light, N of RWY 11/29 300 m NE THR 09, lighted. 370 m SW THR 27
3.	TWY edge and centre line lighting	Edge: TWY B, C CL: - LED lights on TWY B and TWY C edge LED lights on all RGL
4.	Secondary power supply/switch-over time	Available/8 sec. Less than 1 sec for departure when RVR is below 800 m. LVP less than 1 sec.
5.	Remarks	-

ESSP 2.16 HELICOPTER LANDING AREA

RWY 09/27 and RWY 11/29 to be used.

AD 2 AERODROMES

ESUP 2.1 AERODROME LOCATION INDICATOR AND NAME

ESUP – PAJALA

ESUP 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	**ARP coordinates and site at AD**	**671445N 0230408E**
2.	**Direction and distance from (city)**	**W 6.5 NM from Pajala**
3.	**Elevation/Reference temperature**	**542 ft/+18.0°C**
4.	**Geoid undulation at AD ELEV PSN**	**81 ft**
5.	**MAG VAR/Annual change**	**9° E 2015/+0.1 increasing**
6.	**Administration, address, telephone, fax, AFS**	**Pajala Airport SE-984 91 Pajala TEL: +46 (0)978 129 60 E-mail: airport@pajala.se AFS: ESUPZTZX Website: www.pajala.se/pajala-airport**
7.	**Types of traffic permitted (IFR/VFR)**	**IFR/VFR. Max RWY ref code 4C**
8.	**Remarks**	**PPR for all non scheduled traffic outside ATS HR of OPS. Request shall be made 72 hours before ARR. TEL: +46 (0)978 129 60 or airport@pajala.se. Caution due intermittent motor vehicles on RWY. Airport manager TEL +46 (0)978 129 50.**

ESUP 2.3 OPERATIONAL HOURS

1.	**AD Administration AD Operating hours**	**MON-FRI 0700-1400 (0600-1300) As ATS**
2.	**Customs and immigration**	**O/R**
3.	**Health and sanitation**	**-**
4.	**AIS Briefing Office**	**FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc**
5.	**ATS Reporting Office (ARO)**	**As ATS**
6.	**MET Briefing Office**	**FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc**
7.	**ATS**	**Ref AIP SUP/NOTAM**
8.	**Fuelling**	**As AD operating hours or O/R**
9.	**Handling**	**For scheduled flights, other O/R**
10.	**Security**	**O/R**
11.	**De-Icing**	**For scheduled flights, other O/R, 8 HR PN**
12.	**Remarks**	**Increased charges outside hours of scheduled operations**

ESUP 2.4 HANDLING SERVICES AND FACILITIES

1.	**Cargo-handling facilities**	**Limited O/R**
2.	**Fuel/oil types**	**Fuel Jet A1** **Oil -**
3.	**Fuelling facilities/discharge capacity**	**Jet A1: 30,000 l, stationary unit**
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**	**-**
7.	**Remarks**	**For payment of fuel only VISA and Mastercard credit cards are accepted. Fuel supplier Air BP.**

ESUP 2.5 PASSENGER FACILITIES

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

ESUP 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	**AD category for fire fighting**	**CAT 3 during operational hours. Other O/R.**
2.	**Rescue equipment**	**Tracked vehicle, snowmobile and by arrangement, municipal rescue service**
3.	**Capability for removal of disabled aircraft**	**By arrangement. Suitable for ACFT up to 60 tonnes.**
4.	**Remarks**	**-**

ESUP 2.7 SEASONAL AVAILABILITY – CLEARING

1.	**Types of clearing equipment**	**Snowplough, sweeper, blower, spreader, slinger**
2.	**Clearance priorities**	**RWY, TWY, Apron**
3.	**Remarks**	**RWY 11/29 de-iced with SAND** **TWY de-iced with SAND**

ESUP 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 LIL/LIH	Green	PAPI Left/3.00° (50.0 ft)	-	-	2300/60 m White Caution zone 600 m yellow LIL/LIH	Red	-
29	SALS 420 m LIL/LIH	Green	PAPI Left/3.00° (50.0 ft)	-	-	2300/60 m White Caution zone 600 m yellow LIL/LIH	Red	-

10 Remarks:	RWY 11: PCL LIL RWY on frequency 118.380 MHz for 10 sec. RWY 29: PCL LIL RWY on frequency 118.380 MHz for 10 sec.

ESUP 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1.	ABN/IBN location, characteristics and hours of operation	-
2.	LDI location and LGT Anemometer location and LGT	Windsock S Apron, Lighted. Windsock at DME PJL and at RWY ENDs At PAPI RWY 11 and 400 m NW THR 29. Lighted
3.	TWY edge and centre line lighting	Edge: TWY A CL: -
4.	Secondary power supply/switch-over time	Available/15 sec
5.	Remarks	-

ESUP 2.16 HELICOPTER LANDING AREA

RWY 11/29 to be used

ESUP 2.17 ATS AIRSPACE

1.	Designation and lateral limits	PAJALA TIZ/RMZ	672041N 0230901E - 671351N 0232621E - 670847N 0231915E - 670919N 0225625E - 671735N 0223839E - 672003N 0224123E - 672041N 0230901E
2.	Vertical limits	PAJALA TIZ/RMZ	2000 ft AMSL GND
3.	Airspace classification	G	
4.	ATS unit call sign Language(s)	PAJALA INFORMATION Swedish/English	
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	Continuous two-way radiocommunication required in TIZ/RMZ. TIZ/RMZ established during hours of AFIS.	

ESUP 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
AFIS	PAJALA INFORMATION	118.380	HO	-
		121.500	HO	-

ESUP 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 (9° E 2015)	IUP	111.50 MHz	H24 *	671418.7N 0230614.9E		293 m beyond THR 29 ILS Class I/D/2
GP		332.90 MHz	H24 *	671457.2N 0230330.9E		Angle 3.0° RDH 52.4 ft 295 m past THR 11 left side
L 11	PAJ	390 kHz	H24 *	671603.8N 0225633.9E		-
DME	IUP	111.50 MHz	H24 *	671457.3N 0230331.0E	552 ft	DME channel 52X
DME	PJL	115.35 MHz	H24	671455.9N 0230344.2E	594 ft	Enroute only DME channel 100Y

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

ESUP 2.20 LOKALA TRAFIKFÖRESKRIFTER

Högervarv tillämpas när bana 11 är i användning.

LOCAL TRAFFIC REGULATIONS

Right hand traffic circuit when RWY 11 is in use.

ESUP 2.21 MINSKNING AV BULLERSTÖRNING

Lågflygning över bebyggda delar av Pajala bör undvikas.

NOISE ABATEMENT PROCEDURES

Low flying over buildt up areas of Pajala should be avoided.

ESUP 2.22 FLYGPROCEDURER

1 Startprocedur, omnidirectional

FLIGHT PROCEDURES

1. Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
11	Climb straight ahead with MNM 250 ft/NM (4.1%) to MNM turning ALT 1700 ft. Continue climb to appropriate MSA.	Pine Tree Pylon Pine Tree (CIO)	971 1897 609	131°/6346 067°/8447 114°/2518
29	Climb straight ahead to MNM turning ALT 1400 ft. Continue climb to appropriate MSA.	Pylon Pine Tree (CIO)	1897 617	053°/7227 304°/1534

2 RVR 550 m eller mer krävs för start bana 11/29.

2. RVR 550 m or more is required for departure RWY 11/29.

AD 2 AERODROMES

ESSA 2.1 AERODROME LOCATION INDICATOR AND NAME

ESSA – STOCKHOLM/ARLANDA

ESSA 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	ARP coordinates and site at AD	593907N 0175507E 010.5° GEO 1650 m from THR 01L
2.	Direction and distance from (city)	N 20 NM from Stockholm
3.	Elevation/Reference temperature	138 ft/+23.8°C
4.	Geoid undulation at AD ELEV PSN	75 ft
5.	MAG VAR/Annual change	6° E 2020/+0.2 increasing
6.	Administration, address, telephone, fax, AFS	Swedavia AB Flygvägen 1 SE-190 45 Stockholm/Arlanda TEL: +46 (0)10 109 10 00 FAX: +46 (0)10 109 05 00 E-mail: info.arlanda@swedavia.se AFS: ESSAZTZX Website: www.swedavia.se/arlanda/
7.	Types of traffic permitted (IFR/VFR)	IFR/VFR. Max RWY ref code 4E, all runways
8.	Remarks	PPR for all VFR traffic TEL +46 (0)8 585 544 50

ESSA 2.3 OPERATIONAL HOURS

1.	AD Administration AD Operating hours	MON-FRI 0700-1530 (0600-1430) H24
2.	Customs and immigration	H24 Direct transit area
3.	Health and sanitation	H24, Designated quarantine AD
4.	AIS Briefing Office	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
5.	ATS Reporting Office (ARO)	H24
6.	MET Briefing Office	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
7.	ATS	H24
8.	Fuelling	H24
9.	Handling	H24
10.	Security	H24
11.	De-Icing	H24
12.	Remarks	Marshalling available H24. No marshall service on apron H, J and L.

ESSA 2.4 HANDLING SERVICES AND FACILITIES

1.	Cargo-handling facilities	All types
2.	Fuel/oil types	Fuel Jet A1 Oil -
3.	Fuelling facilities/discharge capacity	Jet A1: No limitations, hydrant fuelling Fueltrucks on apron G, J, K, M, S and on Terminal 3 north side
4.	De-icing facilities	Type I and II, mobile units
5.	Hangar space for visiting ACFT	Limited

6.	Repair facilities for visiting ACFT	Available for various types of aircraft
7.	Remarks	For payment of fuel contact Shell, BP or World Fuel Service

ESSA 2.5 PASSENGER FACILITIES

1.	Hotels	At AD and in nearby cities/towns
2.	Restaurants	At AD, several
3.	Transportation	Train, buses, taxis, rental cars
4.	Medical facilities	At AD, hospitals in nearby cities/towns
5.	Bank and Post Office	At AD
6.	Tourist Office	At AD
7.	Remarks	-

ESSA 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	CAT 10, 2 fire fighting stations
2.	Rescue equipment	Tracked vehicle, decontamination vehicle, airport medical assistance, lift bags, rescue boat and rescue rafts.
3.	Capability for removal of disabled aircraft	By arrangement On-the-scene commander H24, APOC Supervisor +46 (0)10 109 13 00
4.	Remarks	-

ESSA 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	Blowers, sweepers, snowploughs, slingers, spreaders
2.	Clearance priorities	RWY, TWY, Apron, roads
3.	Remarks	All RWYs de-iced with KFOR/NAFO All TWYs and aprons de-iced with KFOR/NAFO/SAND

ESSA 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	Apron surface and strength	Apron D ASPH PCN 92 F/A/W/T Apron E ASPH PCN 72 F/A/W/T Apron F ASPH PCN 76 F/A/W/T Apron G CONC PCN 68 R/A/W/T Apron J ASPH PCN 69 F/A/W/T Apron K ASPH PCN 48 F/A/W/T Apron L ASPH PCN 32 F/A/W/T Apron R ASPH PCN 87 F/A/X/T Apron AB ASPH PCN 62 F/A/W/T Apron CD ASPH PCN 102 F/A/W/T Apron FA ASPH PCN 102 F/A/X/T Apron H ASPH ASPH PCN 54 F/A/W/T Apron H CONC CONC PCN 50 R/A/W/T Apron M ASPH ASPH PCN 75 F/A/W/T Apron M CONC CONC PCN 70 R/A/W/T Apron S North part ASPH PCN 48 F/A/W/T Apron S South part ASPH PCN 41 F/A/X/T

ESSA 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1.	ABN/IBN location, characteristics and hours of operation	-
2.	LDI location and LGT	RWY 01L/19R lighted windsocks 900 m from THR. RWY 08/26 and 01R/19L lighted windsocks at PAPI locations.
	Anemometer location and LGT	Unlighted anemometers at aiming points.
3.	TWY edge and centre line lighting	Edge: - CL: See ESSA 2-4 LED lights on all TWY centre line lights LED lights on all RGL LED lights on all STOP bars
4.	Secondary power supply/switch-over time	Available/1 sec
5.	Remarks	-

ESSA 2.16 HELICOPTER LANDING AREA

Any RWY

ESSA 2.17 ATS AIRSPACE

1.	Designation and lateral limits	ARLANDA CTR	594858N 0174648E - 594858N 0175956E - 594858N 0181047E - 594628N 0181517E - 593758N 0181917E - 592928N 0175748E - 592954N 0175302E - 593028N 0174648E - 593328N 0174148E - 594858N 0174648E
		Sector East	594858N 0175956E - 594858N 0181047E - 594628N 0181517E - 593758N 0181917E - 592928N 0175748E - 592954N 0175302E - 594858N 0175956E
		Sector West	594858N 0174648E - 594858N 0175956E - 592954N 0175302E - 593028N 0174648E - 593328N 0174148E - 594858N 0174648E
2.	Vertical limits	ARLANDA CTR	2000 ft AMSL GND
		Sector East	2000 ft AMSL GND
		Sector West	2000 ft AMSL GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	ARLANDA TOWER Swedish/English	
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	CTR established H24 Sector East established H24 Sector West established H24	

ESSA 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/ Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	ARLANDA TOWER	118.505	H24	RWY 01L/19R and CTR Sector West
		125.130	H24	RWY 01R/19L
		128.730	H24	RWY 08/26 and CTR Sector East
		121.500	H24	-
		123.100	O/R	SAR May be used for COM with Airport Fire and Rescue on GND when instructed by TWR
	ARLANDA GROUND	121.705	H24	Push-back and taxi instructions. See ESSA-2-5/6
		121.980	H24	Push-back and taxi instructions. See ESSA-2-5/6
		121.930	H24	Push-back and taxi instructions. See ESSA-2-5/6
	ARLANDA CLEARANCE DELIVERY	121.830	H24	ATC clearance
APP	STOCKHOLM APPROACH	123.755	H24	-
ATIS	ARLANDA ATIS ARRIVAL	119.005	H24	D-ATIS service available
	ARLANDA ATIS DEPARTURE	121.630	H24	D-ATIS service available

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

1. Flygplatskoordinering

1.1 Ansökan om flygplats –SLOT

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
- Luftfartyg på räddningsuppdrag
- Helikopter flygningar under dager VMC

SLOT begäran skall vara Arlanda SLOT koordinator 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.

LOCAL TRAFFIC REGULATIONS

1. Aerodrome coordination

1.1 Application for airport SLOT

Application for airport SLOT for arrival and departure is 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.

1.2 Marktjänst

Anlitande av marktjänstbolag alternativt lokalt avtal om egenhantering är obligatoriskt för alla flygningar till och från STOCKHOLM/Arlanda. Undantaget är ambulansflyg och statsluftfartyg.
Operatörer skall försäkra sig om att arrangemang med marktjänstbolag alternativt avtal om egenhantering finns före ankomst och avgång. För ytterligare information om marktjänst och egenhantering se under ”Flygmarknad” på www.swedavia.se/om-swedavia

1.2 Ground Handling

All flights to and from STOCKHOLM/Arlanda are subject to mandatory handling or self-handling agreements. Exceptions apply for hospital flights and state aircrafts.
Operators shall assure arrangements with ground handling agent or possess a self-handling agreement prior to arrival and departure. For further information about handling services or self-handling agreements visit “Aviation business” at www.swedavia.com/about-swedavia

2. Föreskrifter vid taxning

2. Taxi regulations

2.1 Mod S transponder

STOCKHOLM/Arlanda flygplats är försedd med en avancerad markrörelseradar som kommunicerar med luftfartyg och fordons Mode S transponder för att erhålla dess positionsangivelse samt tilldelad identifieringskod.
Operatören av luftfartyg ska säkerställa att Mode S transpondern kan operera när luftfartyget är på marken.

Flygbesättningen skall;
från begäran av push-back eller taxning, det som inträffar först, samt efter landning, kontinuerligt tills luftfartyget parkerat på avsedd uppställningsplats:

- Välja AUTO läge på transpondern samt den angivna Mode A koden.
  Om AUTO läge inte finns tillgängligt ska XPNDR eller motsvarande väljas beroende på installerad utrustning, samt den angivna Mode A koden.

- Ställa in luftfartygets identifikation om luftfartyget är utrustat med Mode S transponder. Luftfartygets identifikation ska tas från punkt 7 i ICAO ATC Flight Plan.

Vid taxning med luftfartyg mellan uppställningsplatser ska Mode S vara aktiverat med kod 2000.

2.1 Mode S transponder

STOCKHOLM/Arlanda aerodrome is equipped with an advanced surface movement radar communicating with aircrafts and vehicles Mode S transponders to obtain their position and identification code.
Aircraft operators should ensure that Mode S transponder are able to operate when the aircraft is on the ground.

Flight crew shall;
from the request for push-back or taxi whichever is earlier, and after landing, continuously until the aircraft is fully parked on stand:

- Select AUTO mode and the assigned Mode A code. If AUTO mode is not available, the pilots shall select XPNDR or the equivalent depending on installed equipment, and the assigned Mode A code.

- Set the aircraft identification if the aircraft is equipped with Mode S transponder. The aircraft identification to be used is specified in Item 7 of the ICAO ATC Flight plan.

Aircraft taxiing between stands shall activate Mode S and code 2000.

2.2 Procedurer vid taxning

Luftfartyg får inte taxa på manöverområdet utan klarering från flygtrafikledningen och skall följa de instruktioner som ges av dem.
Förutom då flygtrafikledningen gett annan instruktion ska taxningsvägar enligt GROUND MOVEMENT CHART ARRIVAL/DEPARTURE tillämpas.

2.2 Taxi Procedures

Aircraft shall not taxi on the maneuvering area without clearance from Air Traffic Control and shall comply with any instructions given by that unit.
Unless otherwise instructed from Air Traffic Control, taxi routes on GROUND MOVEMENT CHART ARRIVAL/DEPARTURE applies.

2.2.1 Ankomst

Intaxande luftfartyg som lämnar rullbanan ska inte använda avfarter där svängvinkeln överstiger 90 grader.

2.2.1 Arrival

Arriving aircraft shall not leave RWY via exit TWY with turn exceeding 90 degrees.

2.2.2 Avgång

2.2.2.1 Avgående klarering

Avgående klarering kan begäras via data-länk (DCL) (SITA/AIRINC) eller via RTF från EOBT -25 minuter till EOBT + 10 minuter.

Vid begäran skall följande anges:

- Flygplans typ
- Uppställningsplats
- Senast mottagen ATIS-identifikation och QNH

2.2.2 Departure

2.2.2.1 Departure clearance

Departure clearance may be requested by data-link (DCL) (SITA/AIRINC) or by RTF from EOBT -25 minutes until EOBT +10 minutes.

At request state:

- Type of aircraft
- Stand position
- Latest received ATIS id-letter and QNH

Begäran om annan bana än bana i användning medges endast av prestandaskäl. Vid begäran om avgående klarering via DCL lägg till; “REQ [RWY]” i RMK-fältet i RCD.

Luftfartyg som inte kan följa RNAV SID ska, när begäran sker via DCL, lägga till; “REQ URNAV” i RMK-fältet i RCD.

Följande procedur gäller för klarering via DCL:

- Sänd begäran om klarering (RCD).
- Svarsmeddelande (FSM) sänds automatiskt.
  - Om RCD accepteras; avgående ATC klarering (CLD)
  - Om RCD avslås; övergå till RTF.
- Kvittera avgående ATC klarering med återläsning (CDA) inom 5 minuter.
- Korrekt återläsning kvitteras med ett FSM.

När DCL-tjänsten används ska passning ske på kanal 121.830, Clearance Delivery.

Flygbesättning ska verifiera att SID och bana inmatad i FMS överensstämmer med avgående klarering. Vid tveksamheter eller vid problem med DCL-tjänsten ska övergång till RTF ske.

Avgående ATC klarering utfärdad via RTF överrider alltid avgående ATC klarering utfärdad via DCL.

2.2.2.2 Start-up/Push-back/Taxi

Tillstånd för start-up/push-back/taxi ska inhämtas från ”GROUND”. Begäran om tillstånd för detta ska innehålla uppställningsplats och endast göras när luftfartyget är redo att följa ett tillstånd.

Fastställda push-backrutiner publicerade i Airport Regulations ska följas där push-back är obligatorisk.

Tillstånd för push-back inkluderar även start av motorer under push-back.

Om push-back inte har startats inom en minut från tillståndsgivandet, cancelleras tillståndet automatiskt och ett nytt tillstånd måste inhämtas.

2.2.2.2.1 Airport Collaborative Decision Making (A-CDM)

Target Off Block Time (TOBT)

1. TOBT måste uppdateras med en precision på +/- 5 minuter.
2. TOBT ska uppdateras via vanliga rutiner t.ex. standard IATA (ETD) estimerat avgångs-meddelande.
3. TOBT ska endast uppdateras vid förändring på 5 minuter eller mer.
4. Vid en försening på 15 minuter eller mer, måste ett DLA-meddelande skickas av marktjänstföretag eller flygoperatör.

Runway other than in use only permitted due performance. When requesting departure clearance using DCL add; “REQ [RWY]” in RMK-field in RCD.

Aircraft unable to follow RNAV SID shall when using DCL add: “REQ URNAV” in RMK-field in RCD.

The following procedure applies for DCL:

- Send a request for clearance (RCD).
- A flight system message (FSM) will be transmitted automatically;
  - If the RCD is accepted; a pre-departure clearance (CLD) will be issued.
  - If the RCD is rejected; revert to RTF procedures.
- Acknowledge the pre-departure clearance with a read back (CDA) within 5 minutes.
- When the CDA is processed successfully; a positive FSM will be issued.

When using the DCL service, monitor Clearance Delivery channel, 121.830.

Pilots shall verify that SID and runway added into FMS is in accordance with received clearance. In the event of doubts or system related problems, RTF procedures shall be conducted.

A departure clearance issued by RTF always supersedes a clearance transmitted via DCL.

2.2.2.2 Start-up/Push-back/Taxi

Approval for start-up/push-back/taxi must be obtained from ”GROUND”. Request of such permission shall include stand or position and only be made when aircraft is fully ready to comply.

Established push-back procedures according to Airport Regulations shall be adhered to where push-back is mandatory.

Push-back approval includes permission to start engines during push-back.

If push-back has not been commenced within one minute from approval, the push-back permission will automatically expire and a push-back permission must be requested again.

2.2.2.2.1 Airport Collaborative Decision Making (A-CDM)

Target Off Block Time (TOBT)

1. TOBT must be updated and accurate to within +/- 5 minutes.
2. TOBT shall be updated through the usual channels, e.g. standard IATA (ETD) estimated departure message.
3. Only updates 5 minutes or more should be sent.
4. For a delay of 15 minutes or more, a DLA message must be sent by the ground handling company or airline operator.

Target Start Up Approval Time (TSAT)

1. TSAT meddelas av ATS i samband med avgående klarering.
2. Om TSAT uppdateras meddelas pilot via:
   - DCL eller,
   - Docking Guidance System-display eller,
   - A-CDM app:
     Installeras via App Store/Google Play.
     Sök efter A-CDM ESSA eller,
   - På websidan:
     https://www.swedavia.net/airport/arlanda/start/om-flygplatsen/operations/a-cdm eller,
   - Marktjänstföretag eller flygoperatör.

TOBT/TSAT

1. Pilot ansvarar för att luftfartyget är klart för start-up vid TOBT.
2. Om luftfartyget är klar före TOBT måste ny TOBT registreras av marktjänstföretag eller flygoperatör.
3. Om luftfartyget inte är klar vid TOBT måste ny TOBT registreras av marktjänstföretag eller flygoperatör.
4. Pilot ska vara uppmärksam på TOBT och TSAT och följa dessa.

Start Request

1. Start-up/push-back ska begäras inom TSAT-fönster +/- 5 minuter.
2. Om pilot har gjort begäran inom TSAT-fönster men blir försenad av ATS behövs ingen ny TOBT.
3. Om Arlanda Ground inte anropats för start-up vid TSAT +5 minuter, kommer luftfartyget att förlora sin plats i sekvenseringen (TSAT raderas). Pilot begär ny TOBT från marktjänstföretag eller flygoperatör.
4. Som fort ny TOBT blir registrerad kommer luftfartyget att få ny plats i sekvenseringskön och ny TSAT.
5. Luftfartyget kommer inte att kunna avgå förrän ny TOBT är registrerad och uppdaterad TSAT visas och följs.

2.2.2.3 Inflyttad startposition

Start från inflyttad position ska alltid begäras av TWR.

2.2.2.4 Omedelbar start

Flygbesättning som inte är redo för omedelbar start under uttaxning ska meddela TWR innan ankomst till väntplats.

2.2.3 Taxiprocedurer vid låga siktvärden

I syfte att säkerställa korrekt taxning på plattor som inte är utrustade med taxningsljus (platta G, H, J, K och S) gäller följande:

Vid RVR värden understigande 550 m under mörker och 350 m under dager, kommer ledsagning utföras mellan plattans infart/utfart och uppställningsplats.

På platta H och J kommer ledsagning att utföras mellan plattans infart/utfart och stopplinje på plattan.

Target Start Up Approval Time (TSAT)

1. TSAT is provided by ATS with the departure clearance.
2. If TSAT is updated pilot will be notified via:
   - DCL or,
   - Docking Guidance System-display or,
   - A-CDM app:
     Download via App Store/Google Play.
     Search for A-CDM ESSA or,
   - On the website:
     https://www.swedavia.net/airport/arlanda/start/om-flygplatsen/operations/a-cdm or,
   - Ground handling company or airline operator.

TOBT/TSAT

1. Pilot shall ensure the flight is ready for start-up at TOBT.
2. If flight is ready before TOBT then TOBT must be updated by ground handling company or airline operator.
3. If flight is not ready then TOBT must be updated by ground handling company or airline operator.
4. Pilot shall take notice of TOBT and TSAT and comply with them.

Start Request

1. Start-up/push-back shall be requested within TSAT-window +/- 5 minutes.
2. If pilot has called ready but is then delayed by ATS there is no requirement for TOBT to be updated.
3. If at TSAT + 5 minutes Arlanda Ground has not received a start-up request, the aircraft will lose its TSAT. Pilot shall request new TOBT from ground handling company or airline operator.
4. Once new TOBT is entered the aircraft will be re-sequenced with new TSAT.
5. Aircraft will not be allowed to depart until a valid TOBT is entered and revised TSAT is given and complied to.

2.2.2.3 Intermediate take-off position

Take off from intermediate positions shall always be requested from TWR.

2.2.2.4 Immediate take-off

Flight crew not ready for immediate take-off during outtaxing shall advise TWR before entering RWY holding position.

2.2.3 Taxi procedures in low visibility conditions

In order to ensure correct taxi operations on aprons not equipped with taxi lights (apron G, H, J, K and S) following procedure will apply:

In RVR less than 550 m during darkness and 350 m during daylight, marshalling will be conducted between the apron´s entry/exit point and aircraft stand.

On apron H and J marshalling will be conducted between the apron´s entry/exit point and stop line on apron.

2.2.4 Begränsningar för taxibanor

TWY Y4, Y5, Y6 och Y7
TWY W2 och W4

Endast tillåtna för flygplan med maximalt vingspann 42 m till följd av otillräckliga utfyllnader i kurvor.

2.2.5 Reducerande avstånd

Reducerade avstånd mellan ytterhjul och taxibankant tillämpas i kurvor vid nedanstående taxibanor till följd av otillräckliga utfyllnader i kurvor;

TWY M, W8 och PA för A350-1000 och B777-300/-300ER.

TWY ZH och ZK för A330-300, A330-900, A340-300, A350-900 och B777-200.

TWY KW för A330-200, A340-300 och B747.

Återstående avstånd mellan ytterhjul och taxibankant är mer än 2,5 m av kravet 4 m med förarplats över centrumlinjen. Förhöjd uppmärksamhet av pilot samt taxning med noshjulet på centrumlinjen alternativt användning av överstyrningsmetod rekommenderas.

3. Föreskrifter för uppställningsplatta

3.1 Föreskrifter vid taxning på platta

ATC utövas inte på plattorna.
För att upprätthålla ett ordnat flöde på plattorna, tillhandahålls en begränsad trafikinformationstjänst och alla flygplansrörelser på plattan ska anmälas till TWR och följa de procedurer som finns redovisade på AD 2-ESSA-2-5--7 om inte TWR angivit annat.
Följande föreskrifter gäller;
Taxning mellan terminalbyggnad och flygplan efter avslutad push-back är endast tillåtet efter anmälan till TWR och att instruktioner för detta har erhållits.

Terminal 2
Uttaxning ska utföras enlig följande:
Uppställningsplats 62 ut via UA.
Uppställningsplats 63-65 ut via UB.
Uppställningsplats 66-68 ut via UC.

Terminal 4
Intaxning till plats 31 ska utföras via ZE.
Taxning eller bogsering är inte tillåten på uppställningsplattan mellan ZF-ZG.

Terminal 5
Taxning eller bogsering är inte tillåten på uppställningsplattan mellan ZH-ZK och ZL-ZN.
Intaxning från TWY Z till platta FA via ZN är endast tillåtet med luftfartyg med max vingspann 36 m, undantaget vid parkering på plats 8.
Intaxning till plats 9 ska utföras via ZL.
Intaxning till plats 10 ska utföras via ZN.
Intaxning till plats 20 ska utföras via ZK.
Uttaxning från platserna 1-7 ska utföras via ZL.
Uttaxning från platserna 12-20 ska utföras via ZK.

3.2 Restriktioner vingspann

Maximalt vingspann 24 m för taxning på platta S söder om SC.

2.2.4 Taxiway limitations

TWY Y4, Y5, Y6 and Y7
TWY W2 and W4

Only permitted for aircraft with wingspan maximum 42 m due to insufficient fillets in taxiway curves.

2.2.5 Reduced distance

Reduced distance between outer main gear wheel and taxiway edge will apply at taxiway curves on the taxiways below due to insufficient fillets;

TWY M, W8 and PA for A350-1000 and B777-300/-300ER.

TWY ZH and ZK for A330-300, A330-900, A340-300 and B777-200.

TWY KW for A330-200, A340-300 and B747.

Remaining distance between outer main gear wheel and taxiway edge will be more than 2,5 m of required 4 m with cockpit over centre line. Pilot awareness and taxiing with nose gear on centre line alternatively usage of oversteer method is recommended.

3. Apron regulations

3.1 Taxi regulations on apron

ATC is not provided on aprons.
In order to maintain orderly flow on aprons, a limited traffic information service is provided and all aircraft movements are subject to prior contact with TWR and are required to follow procedures shown in AD 2-ESSA-2-5--7 unless otherwise instructed by TWR.
Following regulations will apply;
Taxiing between terminal building and aircraft after completed push-back is only allowed after TWR has been informed and taxiing aircraft has been instructed to do so.

Terminal 2
Taxiing out shall take place as follows:
From stand 62 out via UA.
From stand 63-65 out via UB.
From stand 66-68 out via UC.

Terminal 4
Taxiing to stand 31 shall take place via ZE.
Taxiing and towing on apron area between ZF-ZG is not allowed.

Terminal 5
Taxiing or towing on apron area is not allowed between ZH-ZK and ZL-ZN.
Taxiing from TWY Z to apron FA via ZN only allowed for aircraft with max wingspan 36 m, except if parking at stand 8.
Taxiing to stand 9 shall take place only via ZL.
Taxiing to stand 10 shall take place only via ZN.
Taxiing to stand 20 shall take place only via ZK.
Taxiing out from stand 1-7 shall take place via ZL.
Taxiing out from stand 12-20 shall take place via ZK.

3.2 Wing span restrictions

Maximum wing span 24 m for taxiing on apron S south of SC.

3.3 Jetstrålar

Minsta möjliga motoreffekt ska användas på alla plattor vid taxning för att undvika jetstrålar.

3.3 Jet Blast

Engines shall be operated at minimum required thrust on all aprons when taxiing to avoid jetblast.

4. Föreskrifter för helikoptertrafik

TWR kommer att anvisa start och landning till någon RWY. Taxning eller hovring till eller ifrån uppställningsplats ska följa publicerade taxivägar om inget annat anges av TWR.

4. Helicopter traffic

TWR will advise approach and take off to any RWY. Taxiing/hover to and from parking stand shall follow published taxi routes if not otherwise instructed by TWR.

5. Föreskrifter för uppställningsplats

5.1 Restriktioner uppställningsplatser

Vid parkering på platserna 7, 8 och 18 kommer följande widebody flygplan att bogseras in till dörr 2 efter egen intaxning till första STOP; A330, A350, B777 och B787.

5. Stand regulations

5.1 Stand restrictions

At parking stands 7, 8 and 18 the following widebody ACFT will be towed-in to door 2 after power-in to first STOP: A330, A350, B777 and B787.

5.2 Reducerat säkerhetsavstånd

Terminal 4
Reducerade säkerhetsavstånd ned till 3 m tillämpas på tillämpliga uppställningsplatser mellan vänster motor och passagerarbrygga för A220-100, A319, B737-600/-700, E170. Förfarandet uppfyller kraven enligt EASA CS ADR-DSN.E.365.

Plats R5
Reducerat säkerhetsavstånd ned till 6.2 m tillämpas på höger sida tvärs belysningsstolpe på plats R4 för flygplan med vingspann överskridande 63 m men mindre än 65 m. Belysningsstolpe är markerad med färg och ljus. Förfarandet uppfyller kraven enligt EASA CS ADR-DSN.E.365.

5.2 Reduced safety distances

Terminal 4
Reduced safety distances minimum 3 m will apply between left engine and passenger bridge for A220-100, A319, B737-600/-700, E170 on all applicable stands. The procedure is assessed according to EASA CS ADR-DSN.E.365.

Stand R5
Reduced safety distance minimum 6.2 m will apply on right side abeam light pole at stand R4 for ACFT with wingspan above 63 m but not 65 m. Light pole marked with colour and lights. The procedure is assessed according to EASA CS ADR-DSN.E.365.

5.3 Frigörande av uppställningsplats

När försening till följd av ändrad CTOT uppstår kan luftfartyg instrueras av TWR att lämna uppställningsplats, för att frigöra uppställningskapacitet.

5.3 Push and Hold

When delayed by CTOT, aircraft may be ordered to push and hold to release stand capacity according to instructions from TWR.

5.4 Push-back

Push-back ska alltid utföras vid “nose-in “parkering. Vid övrig uppställning ska push-back alltid utföras för jetflygplan, avvikelser från detta kan förekomma. Marktjänstföretag informerar om push-back ska tillämpas eller inte, i enlighet med Lokala Föreskifter på flygplatsen. Power-back som alternativ till push-back är inte tillåten.

5.4 Push-back

Push-back is compulsory for all nose-in stands. For self-service stands push-back is normally mandatory for all jet-aircraft, however deviations are allowed. Handling agent will inform if applicable or not, according to Airport Regulations. Power-back as an alternative to push-back where mandatory is not allowed.

5.5 Dockningssystem

När dockningssystem inte är aktiverat eller installerat ska luftfartyg vänta på plattans inkörningsspår eller inriktnings-spår utanför uppställningsplats tills dockningssystem har blivit aktiverat eller signal från rangerare för att köra in har tagits emot.

5.5 Parking Guidance System

Whenever parking guidance system is not activated or not installed, aircraft shall wait on apron taxi line or outside parking stand whichever applicable until parking guidance system has been activated or until signal from a marshal for entering has been received.

5.6 APU användning

APU får startas tidigast 5 min före beräknad tid för push-back eller taxning.
Vid ankomst ska APU stängas av inte senare än 5 min efter on-block.

5.6 Use of APU

APU shall not be started earlier than 5 min before estimated time for push-back or taxiing.
On arrival the APU must be shut down not later than 5 min after on-block.

6. Föreskrifter för avisning

6.1 Avisning kan beställas från något av följande företag;

Menzies Aviation	08 797 80 70
Aviator	08 797 71 90
SAS Ground Handling	070 997 59 92

6.2 Procedur

Avisning genomförs på uppställningsplats eller annan anvisad avisningsplats.
På T2 utförs push-back innan avisning påbörjas.

Om avisning ska genomföras på någon av avisningsytorna på platta G, R eller S, så sker uppställning på dessa ytor med push-back eller med marshall.

7. Banföreskrifter

7.1 Begäran om annan bana

Begäran om annan bana än den i användning medges endast av flygsäkerhetsskäl, HOSP eller av prestandaskäl.

7.2 Inflyttad startposition

Flygplan ska begära inflyttad startposition från ”GROUND” tidigast på TWY eller vid första kontakt med TWR.

7.3 High intensity runway operations (HIRO)

I avsikt att redcuera förseningar och påskynda trafikavveckling tillämpas HIRO för alla luftfartyg. Kort tid på rullbanan medger största möjliga kapacitet.

7.3.1 HIRO för avgående flygplan

- Vid mottagande av klarering att ställa upp ska piloter taxa till korrket position på rullbana utan dröjsmål.
- Piloter ska påbörja startförfarandet omedelbart när starttillstånd har erhållits.
- Piloter som inte kan följa dessa krav ska meddela ATC vid första kontakt efter överlämning till Arlanda TWR.

7.3.2 HIRO för ankommande flygplan

- HIRO kräver att alla flygplan lämnar rullbanan så fort som möjligt. Förlängd tid på rullbanan kan medföra avbruten inflygning för efterföljande flygplan.
- Under approach briefing bör piloter planera och namnge vilken RET (om möjligt) de avser lämna rullbanan.
- Om man inte kan lämna via den planerade avfarten, ska piloten anpassa hastigheten för att snabbt kunna lämna rullbanan via nästa RET (om möjligt). Låg taxihastighet på rullbanan ska undvikas.

6. De/anti-icing regulations

6.1 De/anti-icing is available through following companies;

Menzies Aviation	+46(0)8 797 80 70
Aviator	+46(0)8 797 71 90
SAS Ground Handling	+46(0)70 997 59 92

6.2 Procedure

De-icing will take place at parking stand or other advised de-icing spot.
At T2 push-back will be performed before de-icing starts.

If de-icing will be performed at any of the de-icing areas on apron G, R or S, line-up on these areas will be with push-back or with marshall.

7. RWY regulations

7.1 RWY other than in use

RWY other than in use only permitted due flight safety, HOSP or performance.

7.2 Intersection take-off position

Aircraft shall request intersection take-off position from ”GROUND” earliest when on TWY or on initial contact with TWR.

7.3 High intensity runway operations (HIRO)

In order to reduce delays and expedite traffic HIRO should be applied to all aircraft. Short runway occupancy times allow for the highest possible throughput per hour.

7.3.1 HIRO for departing aircraft

- On receipt of clearance to line-up, pilots should taxi into the correct position on the RWY without delay.
- Pilot should commence take-off roll immediately when take-off clearance is issued.
- Pilots who are unable to comply with these requirements shall notify ATC when transferred to Arlanda TWR.

7.3.2 HIRO for arriving aircraft

- HIRO requires all aircraft to exit the runway as quickly as possible. Extended runway occupancy time may result in the following aircraft being assigned a missed approach.
- During approach briefing pilots should plan and name which rapid exit taxiway (if applicable) they will vacate.
- In case the aircraft will miss the planned exit, pilots shall adjust taxi speed to quickly vacate the runway via the next rapid exit taxiway (if applicable). Low taxi speeds on the runway shall be avoided.

3.3 Avbruten inflygning vid radiobortfall

3.3 Missed approach in case of communication failure

RWY	MISAP in communication failure
01L	Climb straight ahead. At 600 ft or SSA DME1.7 (past SSA DME), whichever is latest, turn left to track 328˚climbing. At 2500 ft or SSA DME 4.0 whichever is latest, turn left to ARL DVOR/DME for new instrument approach.
19R	Climb straight ahead. At 2500 ft or NSA DME 4.0 (past NSA DME), whichever is latest, turn right to ARL DVOR/DME for new instrument approach.
01R	Climb straight ahead. At 600 ft or TSA DME 1.5 (past TSA DME) whichever is latest, turn right to track 038˚ climbing. At 2500 ft or TSA DME 4.0 whichever is latest, turn right to TEB DVOR/DME. At TEB intercept TEB R-222 and proceed to TEB DME 8.2. Turn right to intercept LOC TSA, not below 2500 ft until FAP/FAF (TSA DME 7.5).
19L	Climb straight ahead. At 600 ft or USA DME 1.5 (past USA DME), whichever is latest, turn left to track 148˚ climbing. At 2500 ft or USA DME 4.0 whichever is latest, turn left to TEB DVOR/DME. At TEB intercept TEB R-348 and proceed to TEB DME 16.3. Turn left to intercept LOC USA, not below 2500 ft until FAP/FAF (USA DME 7.5).
08	Climb straight ahead. At 2500 ft or ARL DME 5.0 whichever is latest, turn left to ARL DVOR/DME for new instrument approach.
26	Climb straight ahead. At 2500 ft or ESA DME 5.7 (SA730 for RNP y RWY 26 (AR)), whichever is latest, turn right to ARL DVOR/DME for new instrument approach.

3.4 Avbruten inflygning vid radiobortfall, flygplan med RNAV-kapacitet

3.4 Missed approach in case of communication failure, ACFT with RNAV capability

RWY	MISAP in communication failure
01L	Climb straight ahead. At 600 ft or SSA DME 1.7 (past SSA DME), whichever is latest, turn left to track 328˚climbing. At 2500 ft or SSA DME 4, whichever is latest, turn left to SA816 to join RNAV STAR ELTOK 3J, not below 2500 ft and max IAS 200 kt at SA816, for a normal instrument approach.
19R	Climb straight ahead. At 2500 ft or NSA DME 4.0 (past NSA DME), whichever is latest, turn right to SA908 to join RNAV STAR ELTOK 3N, not below 2500 ft and max IAS 230 kt at SA908, for a normal instrument approach.
26	Climb straight ahead. At 2500 ft or ESA DME 5.7 (SA730 for RNP y RWY 26 (AR)), whichever is latest, turn right to SA491 to join RNAV STAR ELTOK 3V, not below 2500 ft, for a normal instrument approach.

4. Lågsiktsprocedurer (LVP)

4. Low visibility procedures (LVP)

4.1 Kriteria för aktivering av LVP

LVP är i drift när RVR är lägre än 550 m eller när molntäckeshöjden eller vertikalsikten är lägre än 200 ft. Tillämpningen av LVP meddelas i ATIS.

4.1 Criteria for activation of LVP

LVP will be in operation when RVR falls below 550 m or when ceiling or vertical visibility falls below 200 ft. The application of LVP will be announced in ATIS.

4.2 CATII/III RWY

RWY 01L och 01R/19L är godkända för CATII/III.

4.2 CAT II/III RWY

RWY 01L and 01R/19L are approved for CATII/III.

4.2.1 Separation vid inflygning

I syfte att upprätthålla skydd för ILS anläggning, kommer inga fordon eller luftfartyg tillåtas inom känsliga områden. För att uppfylla kravet kommer därför 5 NM separation att tillämpas mellan ankommade.

4.2.1 Approach spacing

In order to maintain protection on ILS, no vehicle or aircraft shall penetrate sensitive areas. In order to fullfil requirement more than 5 NM spacing between arrivals will be used.

4.2.2 Banavfarter

RWY 01L: Alla avfarter ej överstigande 90° är tillgängliga, Y8 och Y6 är RET.
RWY 01R: Alla avfarter ej överstigande 90° är tillgängliga, W5 och W6 är RET.
RWY 19L: Alla avfarter ej överstigande 90° är tillgängliga, W4 och W3 är RET.
Centrumlinjeljus på alla avfarter är installerade med grön/gul färg tills området för stråkyta lämnats. Se AD ESSA 2-4.

4.2.2 RWY exit

RWY 01L: All exits not exceeding 90° are available, Y8 and Y6 are RET.
RWY 01R: All exits not exceeding 90° are available, W5 and W6 are RET.
RWY 19L: All exits not exceeding 90° are available, W4 and W3 are RET.
Centre line lights on all exits are color coded green/yellow until RWY strip area is vacated. See AD ESSA 2-4.

5. VFR trafik

5.1 STOCKHOLM TMA

Procedurerna i ENR 1.2 ska tillämpas.

5.2 STOCKHOLM/Arlanda CTR

Procedurer i ENR 1.2 mom 4 ska tillämpas. För in- och utpasseringspunkter se ESSA 6-1.

ESSA 2.23 ÖVRIG INFORMATION

1. Stoppljus och varningsljus för bana i användning

Stoppljus och varningsljus för bana i användning används H24 till alla banor.

- Passering av tända stoppljus är inte tillåtet.
- Trafik får passera endast efter särskilt tillstånd från ATC och endast efter att stoppljusen släckts.

2. Förhandstillstånd (PPR)/förhandsmeddelande (PN) inom Stockholm TMA

2.1 Förhandstillstånd

Förhandstillstånd krävs för följande flygningar inom Stockholm TMA (TMA Sektor Västerås exkluderad);

• Fotoflyg

Fotoflyg är normalt inte tillåtet inom Stockholm TMA;
MON-FRI 0500-0900 (0400-0800), 1300-2100 (1200-2000)
SUN 1100-2100 (1000-2000).

Fotoflyg ges normalt inte tillstånd att bedriva verksamhet under 6000 ft AMSL över ESSA och ESSB CTR, samt innanför nedanstående koordinater inom flygplatsernas närhet;
595638N 0172845E – 595609N 0183618E –
591038N 0183242E – 591312N 0171630E –
595638N 0172845E.

Avsteg ifrån tidsbegränsning kan göras av skiftledare Stockholm ACC.

• Fällning av fallskärmshoppare

Tillstånd ges restriktivt innanför nedanstående koordinater;
595638N 0172845E – 595609N 0183618E –
591038N 0183242E – 591312N 0171630E –
595638N 0172845E.

2.2 Förhandsmeddelande

Förhandsmeddelande krävs för följande flygningar inom STOCKHOLM TMA;

- Skol- och övningsflygning inkluderande “airwork”, väntläge och upprepade instrumentinflygningar
- Prospekteringsflyg
- Mät- och kontrollflygning av navigeringshjälpmedel

2.3 Innan flygning

5. VFR traffic

5.1 STOCKHOLM TMA

Procedures in ENR 1.2 applies.

5.2 STOCKHOLM/Arlanda CTR

Procedures in ENR 1.2 para 4 applies. Entry/exit points see ESSA 6-1.

ADDITIONAL INFORMATION

1. Stop Bars and RGLs

Stop bars and RGLs (Runway Guard Lights) are used H24 at all runways – active as well as inactive.

- Crossing of a lighted stop bar is prohibited.
- Traffic may proceed only with explicit clearance from ATC and only after the stop bar has been switched off.

2. Prior Permission Required (PPR)/Prior Notice (PN) in Stockholm TMA

2.1 Prior Permission Required

Prior Permission Required for the following operations within Stockholm TMA (TMA Sector Västerås excluded);

• Aerial photographing

Aerial photographing is normally not permitted within Stockholm TMA;
MON-FRI 0500-0900 (0400-0800), 1300-2100 (1200-2000)
SUN 1100-2100 (1000-2000).

Aerial photographing is normally not permitted below 6000 ft AMSL above ESSA and ESSB CTR and within the following coordinates in the aerodromes vicinity;
595638N 0172845E – 595609N 0183618E –
591038N 0183242E – 591312N 0171630E –
595638N 0172845E.

Deviations from the time limit may be made by Watch Supervisor Stockholm ACC.

• Parachute dropping

Permission is given restrictively within the following coordinates;
595638N 0172845E – 595609N 0183618E –
591038N 0183242E – 591312N 0171630E –
595638N 0172845E.

2.2 Prior Notice

Prior Notice is required for the following operations within STOCKHOLM TMA;

- School and training flights, including “airwork”, holding and repeated instrument approaches
- Geological survey flights
- Calibration flight for nav-aids and approach aids

2.3 Before flight

Innan flygning ska operatör lämna förhandsmeddelande eller få förhandstillstånd av skiftledare vid Stockholm ACC TEL 08 585 547 02.

3. Verksamhet med stora flygplan

Som stora flygplan betraktas flygplan som har vingspann överstigande 65 m, samt A340-600/-500 och B777-9.

Särskilda procedurer;

3.1 A380, An124, B747-8, A340-600/-500, B777-9 och C5 Galaxy:

- RWY 01L/19R kommer att användas för landning och start och RWY 26 för landning.
- Av- och påfart Y1, Y9 och Y10 är godkända.
- Avfart X2 är godkänd.
- All taxning kommer att ledsagas.
- TWY Y, PA, X (mellan Y-ZQ) och U (mellan Y-EA) används vid taxning.
- Överstyrningsmetod ska tillämpas.
- Parkering kommer att ske vid Pir F, platta D/E eller platta R enligt anvisning.
- Operatör är ansvarig för att kontraktera marktjänstföretag före användandet av flygplatsen.

3.2 A380, An124, B747-8 och C5 Galaxy:

- Push-back stång finns inte tillgänglig på flygplatsen. Operatör ansvarar själv för att säkerställa egen utrustning.

3.3 B777-9;

- FWT CONOPS ANKOMST;
  Det förväntas att vingtipparna fälls upp efter landning.
- FWT CONOPS AVGÅNG;
  Start RWY 01L TWY Y efter passage SC.
  Start RWY 19R TWY Y efter passage Y9.
- Vid onormala FWT operationer;
  Taxningsväg enligt ovan.

3.4 An225;

- RWY 01L/19R kommer användas för start och landning.
- Av- och påfart Y1 och Y10 är godkända.
- All taxning kommer att ledsagas.
- TWY Y och TWY U till TWY UE kommer användas för taxning.
- Parkering kommer att ske på platta R.
- Operatör är ansvarig för att kontraktera marktjänstföretag för användandet av flygplatsen.

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

- Medeltexturdjupet på banornas beläggning är godkänd till 0.8 mm.
- Fasta hinder genomtränger hinderbegränsande ytor.
- Reducerat säkerhetsavstånd tillämpas i vissa kurvor på taxibanor enligt information i ESSA 1-1 Text 2.20 § 2.2.5 för största dimensionerande flygplan kod E.

Before flight the operator shall give prior notice or get prior permission of the flight by Watch Supervisor Stockholm ACC phone +46 (0)8 585 547 02.

3. Operations with large aircraft

Large aircraft are considered as aircraft with wingspan with more than 65 m and A340-600/-500 and B777-9.

Special procedures;

3.1 A380, An124, B747-8, A340-600/-500, B777-9 and C5 Galaxy:

- RWY 01L/19R will be used for landing and take-off and RWY 26 for landing.
- RWY exit/entry Y1, Y9 and Y10 are approved.
- RWY exit X2 is approved.
- All taxiing will be marshalled.
- TWY Y, PA, X (between Y-ZQ) and U (between Y-EA) will be used for taxiing.
- Oversteer method shall be executed.
- Parking will take place at Pier F, apron D/E or on apron R according instructions.
- Operator is responsible for contracting handling company before using the airport.

3.2 A380, An124, B747-8 and C5 Galaxy:

- Towbar is not available at the airport. Operator shall secure for arrangements with own equipment.

3.3 B777-9;

FWT CONOPS ARRIVAL;
It is expected that wing tips are folded after landing.

- FWT CONOPS DEPARTURE;
  Take off RWY 01L TWY Y after passing SC.
  Take off RWY 19R TWY Y after passing Y9.
- Non-normal FWT operations;
  Routing as above.

3.4 An225;

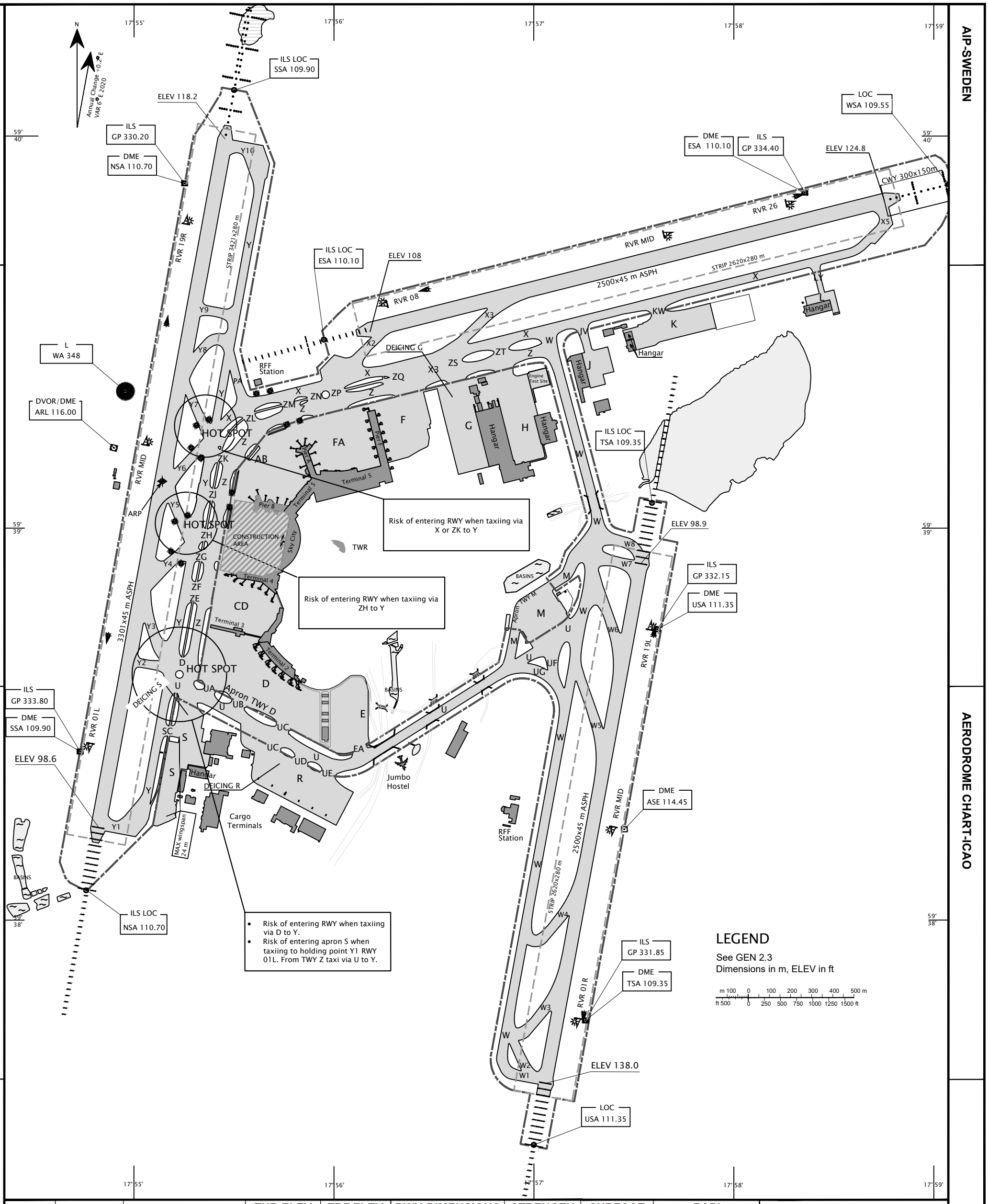
- RWY 01L/19R will be used for landing and take-off.
- RWY exit/entry Y1 and Y10 are approved.
- All taxiing will be marshalled.
- TWY Y and TWY U to TWY UE will be used for taxiing.
- Parking will take place at apron R.
- Operator is responsible for contracting handling company before using the airport.

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

- Average surface texture depth of the runways is approved to be 0.8 mm.
- Fixed obstacles penetrating the obstacle limitation surfaces.
- Reduced safety distance will apply on some taxiway curves according to information in ESSA 1-1 Text 2.20 § 2.2.5 for largest aircraft code E.

ESSA 2.24 TILLHÖRANDE KARTOR — RELATED CHARTS

AD chart		ESSA-2-1
AD chart	Markings	ESSA-2-3
AD chart	Lighting	ESSA-2-4
Ground movement chart	Arrival	ESSA-2-5
Ground movement chart	Departure	ESSA-2-6
Parking/docking chart		ESSA-2-7
AOC	RWY 01L/19R	ESSA-3-1
AOC	RWY 01R/19L	ESSA-3-3
AOC	RWY 08/26	ESSA-3-5
PATC	RWY 01L	ESSA-3-7
PATC	RWY 01R	ESSA-3-9
PATC	RWY 19L	ESSA-3-11
Area chart	TMA	ESSA 4-1
Holding procedures		ESSA 4-2
List of Waypoints and significant points		ESSA 4-3
RNAV SIDs General		ESSA 4-7
RNAV (DME/DME or GNSS) SID	RWY 01L	ESSA 4-9
RNAV (DME/DME or GNSS) SID	RWY 01R	ESSA 4-15
RNAV (DME/DME or GNSS) SID	RWY 08 Left turn	ESSA 4-19
RNAV (DME/DME or GNSS) SID	RWY 08 Right turn	ESSA 4-25
RNAV (DME/DME or GNSS) SID	RWY 19L	ESSA 4-31
RNAV (DME/DME or GNSS) SID	RWY 19R	ESSA 4-37
SID PROP RNAV	RWY 19R HAPZI 1G	ESSA 4-41
RNAV (DME/DME or GNSS) SID	RWY 26	ESSA 4-43
RNAV STARs General		ESSA 4-47
RNAV (DME/DME or GNSS) STAR	RWY 01L	ESSA 4-49
RNAV (DME/DME or GNSS) STAR	RWY 01L/01R	ESSA 4-53
RNAV (DME/DME or GNSS) STAR	RWY 08	ESSA 4-55
RNAV (DME/DME or GNSS) STAR	RWY 19R	ESSA 4-57
RNAV (DME/DME or GNSS) STAR	RWY 19R/19L	ESSA 4-61
RNAV (DME/DME or GNSS) STAR	RWY 26	ESSA 4-63
RNAV (DME/DME or GNSS) STAR Open	RWY 26	ESSA 4-67
ATC Surveillance Minimum ALT chart		ESSA 4-91
IAC	ILS or LOC RWY 01L	ESSA 5-1
IAC	ILS or LOC RWY 19R	ESSA 5-2
IAC	ILS or LOC RWY 01R	ESSA 5-3
IAC	ILS or LOC RWY 19L	ESSA 5-4
IAC	ILS or LOC RWY 26	ESSA 5-5
IAC	LOC RWY 08	ESSA 5-6
IAC	Com failure procedure ILS or LOC RWY 01R	ESSA 5-7
IAC	RNP z RWY 01L	ESSA 5-9
IAC	RNP y RWY 01L (AR)	ESSA 5-13
IAC	RNP z RWY 19R	ESSA 5-15
IAC	RNP y RWY 19R (AR)	ESSA 5-19
IAC	RNP x RWY 19R (AR)	ESSA 5-21
IAC	RNP w RWY 01R (AR)	ESSA 5-23
IAC	RNP y RWY 01R (AR)	ESSA 5-25
IAC	RNP x RWY 01R (AR)	ESSA 5-27
IAC	RNP RWY 19L (LNAV/VNAV, LNAV only)	ESSA 5-29
IAC	RNP RWY 08	ESSA 5-31



LEGEND

See GEN 2.3
Dimensions in m, ELEV in ft

m 100 0 100 200 300 400 500 m
ft 500 0 250 500 750 1000 1250 1500 ft

RWY	BRG MAG	THR COORDINATES	THR ELEV (FT)	TDZ ELEV (FT)	RWY DIMENSIONS (m)	STRENGTH PCN	SURFACE	PAPI GP	PAPI MEHT
01L	004°	593814.11N 0175447.60E	98.6	100.3	3301x45	112 F/A/X/T	ASPH	Left 3.0°	61.4 ft
19R	184°	593959.04N 0175525.56E	118.2	118.2	3301x45	112 F/A/X/T	ASPH	Left 3.0°	56.4 ft
01R	004°	593735.03N 0175702.67E	138.0	138.0	2500x45	67 F/A/W/T	ASPH	Right 3.0°	57.3 ft
19L	184°	593854.49N 0175731.48E	98.9	103.7	2500x45	67 F/A/W/T	ASPH	Left 3.0°	57.3 ft
08	070°	593930.31N 0175610.08E	108		2500x45	89 F/A/W/T	ASPH	Left 3.0°	56.4 ft
26	250°	593950.03N 0175844.96E	124.8	124.8	2500x45	89 F/A/W/T	ASPH	Left 3.0°	60.0 ft

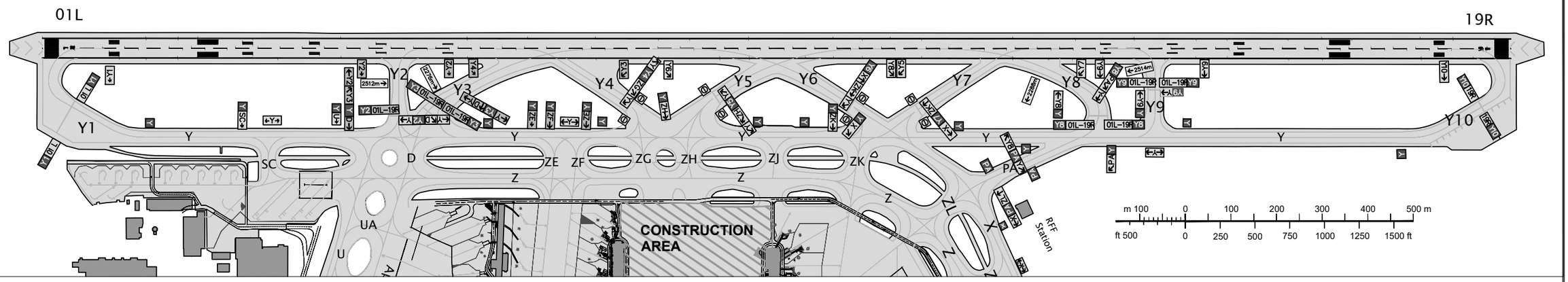
AD GEOGRAPHICAL DATA

AD ELEV 138ft
ARP 59°39'07"N 017°55'07"E
For further information see ESSA AD 2.2

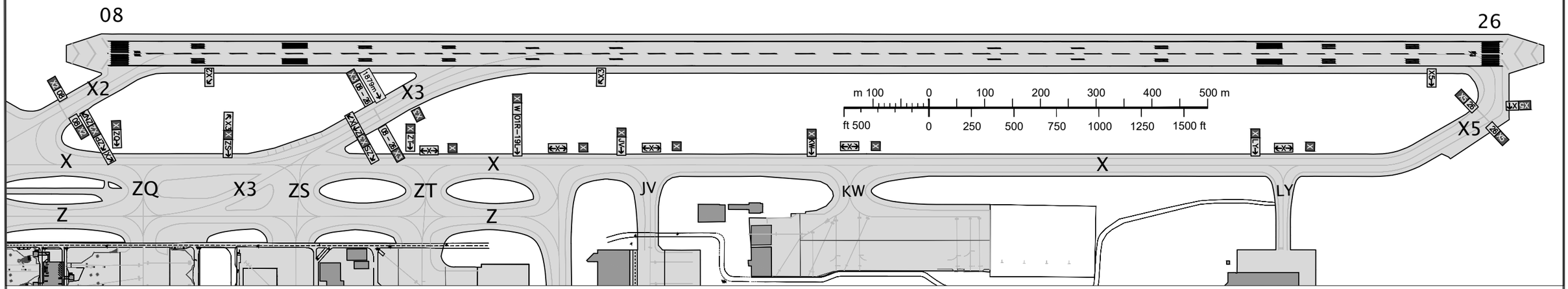
REMARKS

RWY and TWY Markings see AD 2-ESSA-2-3
RWY and TWY Lighting see AD 2-ESSA-2-4
Altimeter Check-Location (ACL) and stand coordinates see AD 2-ESSA ACL/INS Reference points

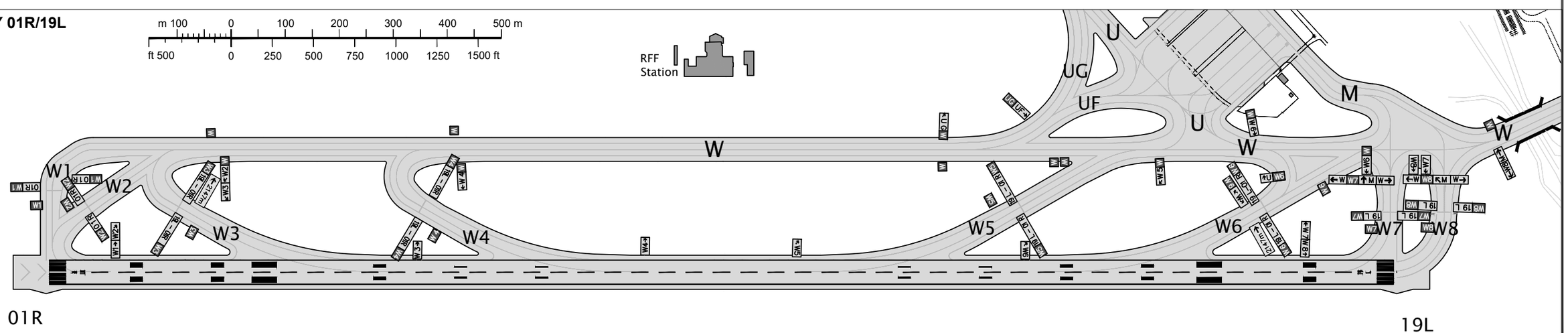
RWY 01L/19R



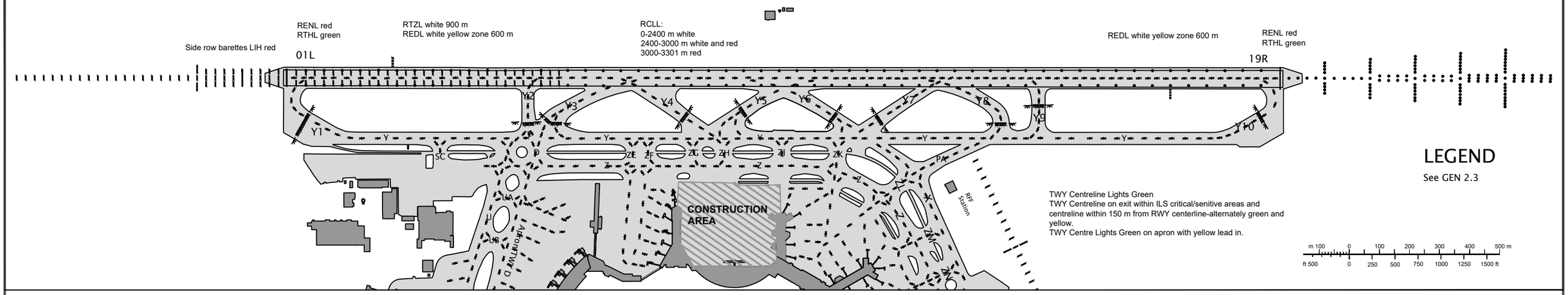
RWY 08/26



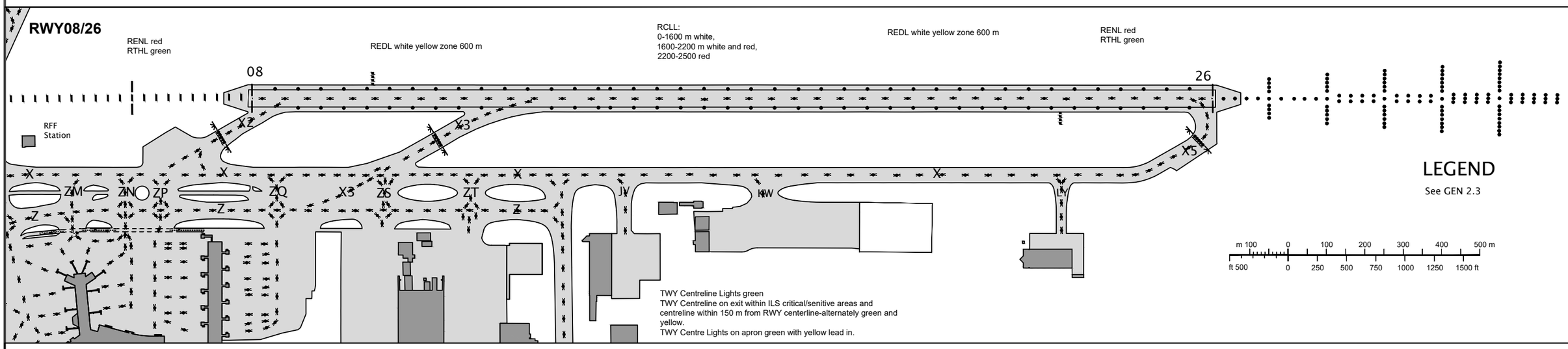
RWY 01R/19L



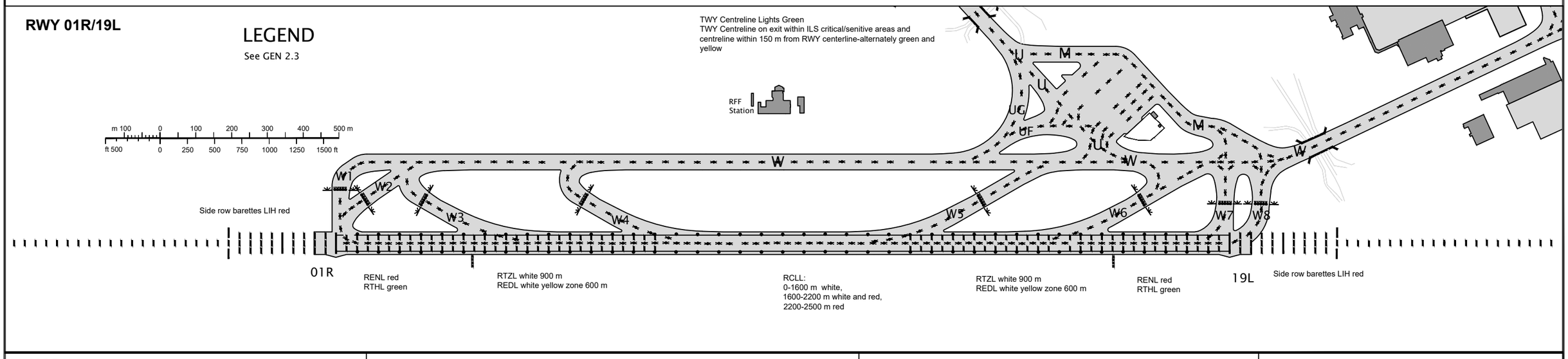
RWY 01L/19R

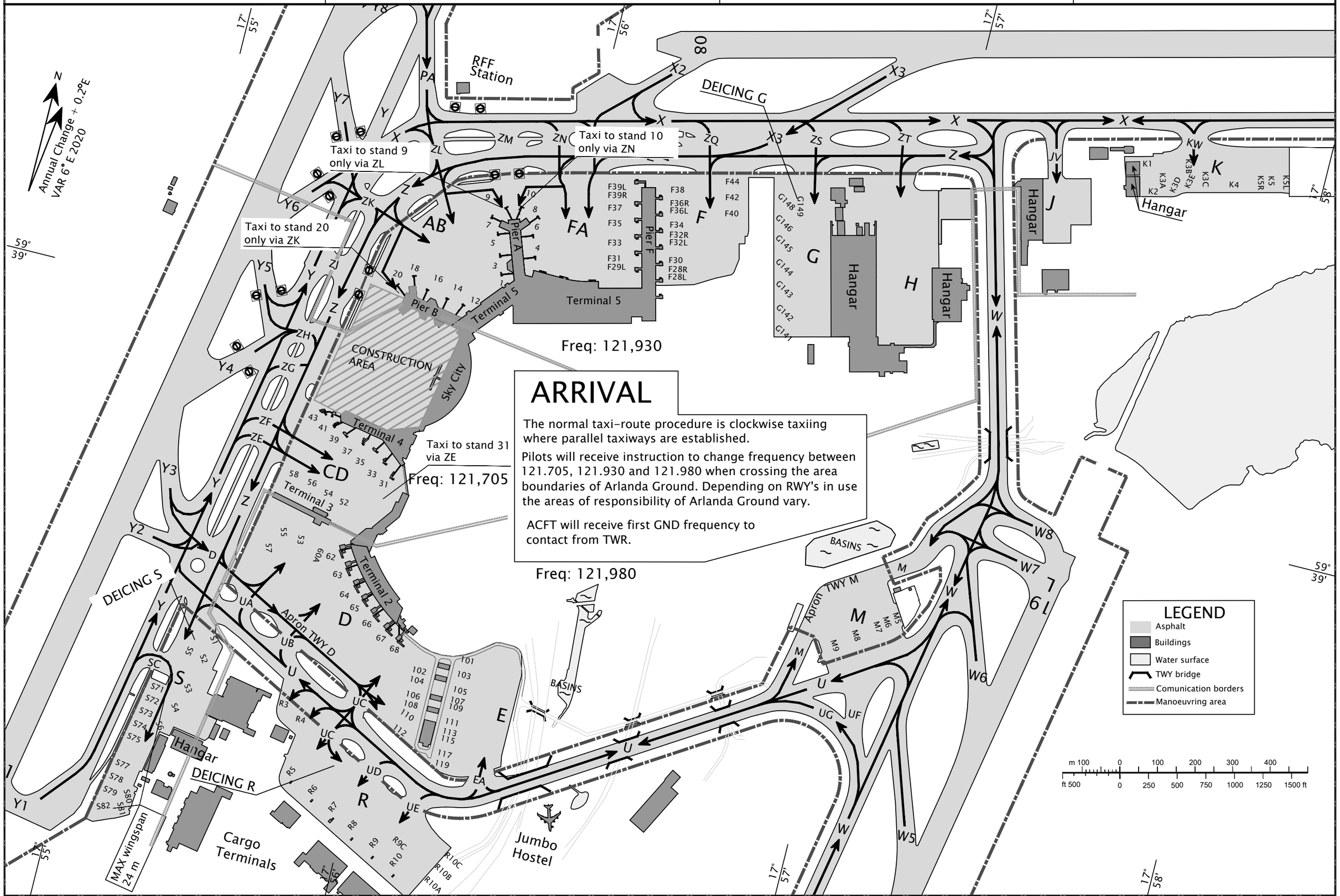


RWY08/26



RWY 01R/19L




N
Annual Change + 0.2°E
VAR 6° E 2020
17° 55'
17° 56'
17° 57'
17° 58'
59° 39'
RFF Station
DEICING G
DEICING S
DEICING R
Taxi to stand 9 only via ZL
Taxi to stand 10 only via ZN
Taxi to stand 20 only via ZK
Taxi to stand 31 via ZE
Freq: 121,705
Freq: 121,930
Freq: 121,980
Terminal 5
Terminal 4
Terminal 3
Terminal 2
Pier A
Pier B
Pier F
Sky City
CONSTRUCTION AREA
Hangar
Cargo Terminals
Jumbo Hostel
BASINS
Apron TWY D
Apron TWY M
MAX wingspan 24 m
08
19
W5
W6
W7
W8
ARRIVAL
The normal taxi-route procedure is clockwise taxiing where parallel taxiways are established.
Pilots will receive instruction to change frequency between 121.705, 121.930 and 121.980 when crossing the area boundaries of Arlanda Ground. Depending on RWY's in use the areas of responsibility of Arlanda Ground vary.
ACFT will receive first GND frequency to contact from TWR.
LEGEND
Asphalt
Buildings
Water surface
TWY bridge
Comunication borders
Manoeuvring area
m 100 0 100 200 300 400
ft 500 0 250 500 750 1000 1250 1500 ft

DEPARTURE

The normal taxi-route procedure is clockwise taxiing where parallel taxiways are established.
Reference see AD 2 ESSA 2.20 Taxi Procedures.
Pilots will receive instruction to change frequency between 121.705, 121.930 and 121.980 when crossing the area boundaries of Arlanda Ground. Depending on RWY's in use the areas of responsibility of Arlanda Ground vary.
ACFT will receive first GND frequency to contact from Clearance Delivery.

Freq: 121,930

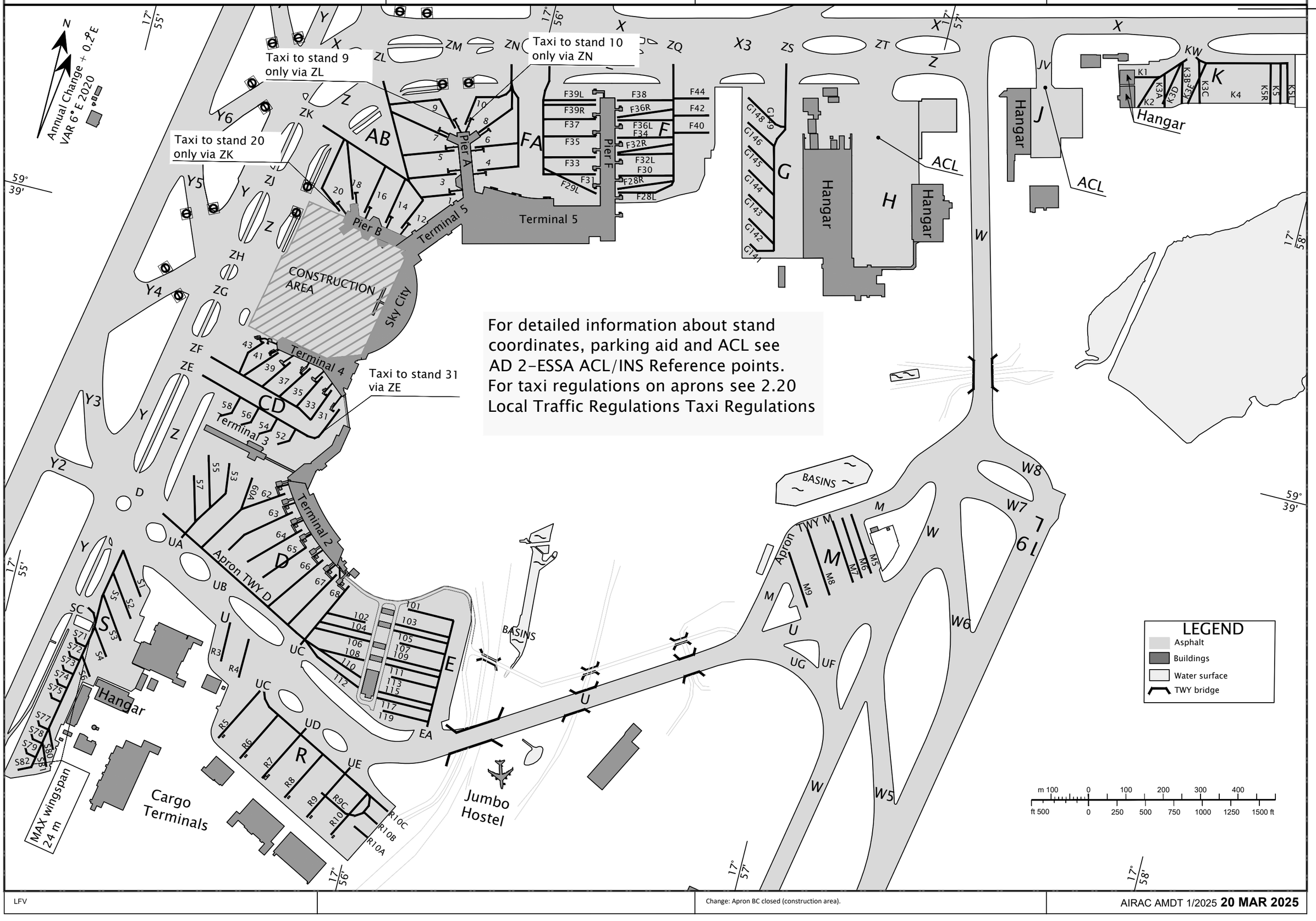
Freq: 121,705

Freq: 121,980

Annual Change + 0.2°E
VAR 6° E 2020

LEGEND
- Asphalt
- Buildings
- Water surface
- TWY bridge
- Comunication borders
- Manoeuvring area

m 100 0 100 200 300 400 500 m
ft 500 0 250 500 750 1000 1250 1500 ft


N
Annual Change + 0.2°E
VAR 6° E 2020
Taxi to stand 9
only via ZL
Taxi to stand 10
only via ZN
Taxi to stand 20
only via ZK
Taxi to stand 31
via ZE
Pier A
Pier B
Pier F
Terminal 5
Terminal 4
Terminal 3
Terminal 2
CONSTRUCTION AREA
Sky City
Hangar
ACL
Apron TWY D
Apron TWY M
BASINS
Cargo Terminals
Jumbo Hostel
MAX wingspan 24 m
For detailed information about stand coordinates, parking aid and ACL see AD 2-ESSA ACL/INS Reference points.
For taxi regulations on aprons see 2.20 Local Traffic Regulations Taxi Regulations
LEGEND
Asphalt
Buildings
Water surface
TWY bridge
m 100 0 100 200 300 400
ft 500 0 250 500 750 1000 1250 1500 ft

ACL/INS Reference points

STAND	INS COORD		ELEV ft	PARKING AID
Terminal 2				
62	593841.07N	0175535.33E	103	APIS++
63	593839.76N	0175537.21E	103	APIS++
64	593838.55N	0175539.33E	103	APIS++
65	593837.61N	0175541.29E	103	APIS++
66	593836.60N	0175543.79E	103	APIS++
67	593835.72N	0175546.48E	103	APIS++
68	593835.08N	0175548.87E	103	APIS++
Terminal 3				
52	593844.98N	0175533.06E	102	INOGON
53	593842.53N	0175526.86E	105	SAFEDOCK
54	593845.41N	0175530.06E	102	INOGON
55	593843.02N	0175523.72E	105	SAFEDOCK
56	593845.75N	0175526.80E	103	INOGON
57	593840.64N	0175521.78E	106	SAFEDOCK
58	593846.10N	0175523.54E	102	INOGON
60A	593841.98N	0175530.54E	104	SAFEDOCK
Terminal 4				
31	593848.51N	0175540.72E	102	SAFEDOCK
33	593849.63N	0175538.80E	101	SAFEDOCK
35	593850.42N	0175536.87E	102	SAFEDOCK
37	593850.75N	0175534.30E	102	SAFEDOCK
39	593851.06N	0175531.31E	101	SAFEDOCK
41	593851.54N	0175528.89E	101	SAFEDOCK
43	593852.42N	0175526.98E	100	SAFEDOCK
Terminal 5	**Pier A**			
1	593907.41N	0175549.77E	101	SAFEDOCK
3	593908.91N	0175548.76E	102	SAFEDOCK
4	593909.97N	0175554.08E	101	SAFEDOCK
5	593910.64N	0175547.54E	100	SAFEDOCK
6	593911.70N	0175552.85E	101	SAFEDOCK
7	593911.87N	0175545.57E	103	SAFEDOCK
8	593913.28N	0175552,69E	101	SAFEDOCK
9	593913.02N	0175547.17E	101	SAFEDOCK
10	593913.61N	0175549.50E	99	SAFEDOCK

ACL/INS Reference points

STAND	INS COORD		ELEV ft	PARKING AID
Terminal 5	**Pier B**			
12	593904.44N	0175544.10E	101	SAFEDOCK
14	593904.56N	0175541.22E	101	SAFEDOCK
16	593904.89N	0175537.62E	101	SAFEDOCK
18	593905.61N	0175534.86E	101	SAFEDOCK
20	593904.38N	0175532.70E	101	SAFEDOCK
Terminal 5	**Pier F**			
F28L	593911.07N	0175617.53E	102	APIS++
F28R	593911.31N	0175616.14E	102	APIS++
F29L	593910.47N	0175609.85E	105	APIS++
F30	593912.39N	0175616.89E	102	APIS++
F31	593911.49N	0175609.12E	103	APIS++
F32L	593913.98N	0175616.01E	102	APIS++
F32R	593914.08N	0175614.76E	103	APIS++
F33	593912.79N	0175608.28E	103	APIS++
F34	593915.31N	0175615.50E	102	SAFEDOCK
F35	593914.42N	0175607.75E	102	APIS++
F36L	593916.58N	0175614.51E	104	SAFEDOCK
F36R	593916.77N	0175613.34E	104	SAFEDOCK
F37	593915.72N	0175607.01E	101	APIS++
F38	593918.13N	0175613.92E	102	SAFEDOCK
F39L	593917.19N	0175606.35E	101	APIS++
F39R	593916.95N	0175607.52E	103	APIS++
Apron D				
102	593833.02N	0175551.69E	104	SAFEDOCK
104	593832.21N	0175552.98E	104	SAFEDOCK
106	593831.64N	0175553.59E	104	SAFEDOCK
108	593830.09N	0175552.94E	103	SAFEDOCK
110	593829.01N	0175552.85E	103	SAFEDOCK
112	593828.11N	0175553.55E	103	SAFEDOCK

ACL/INS Reference points

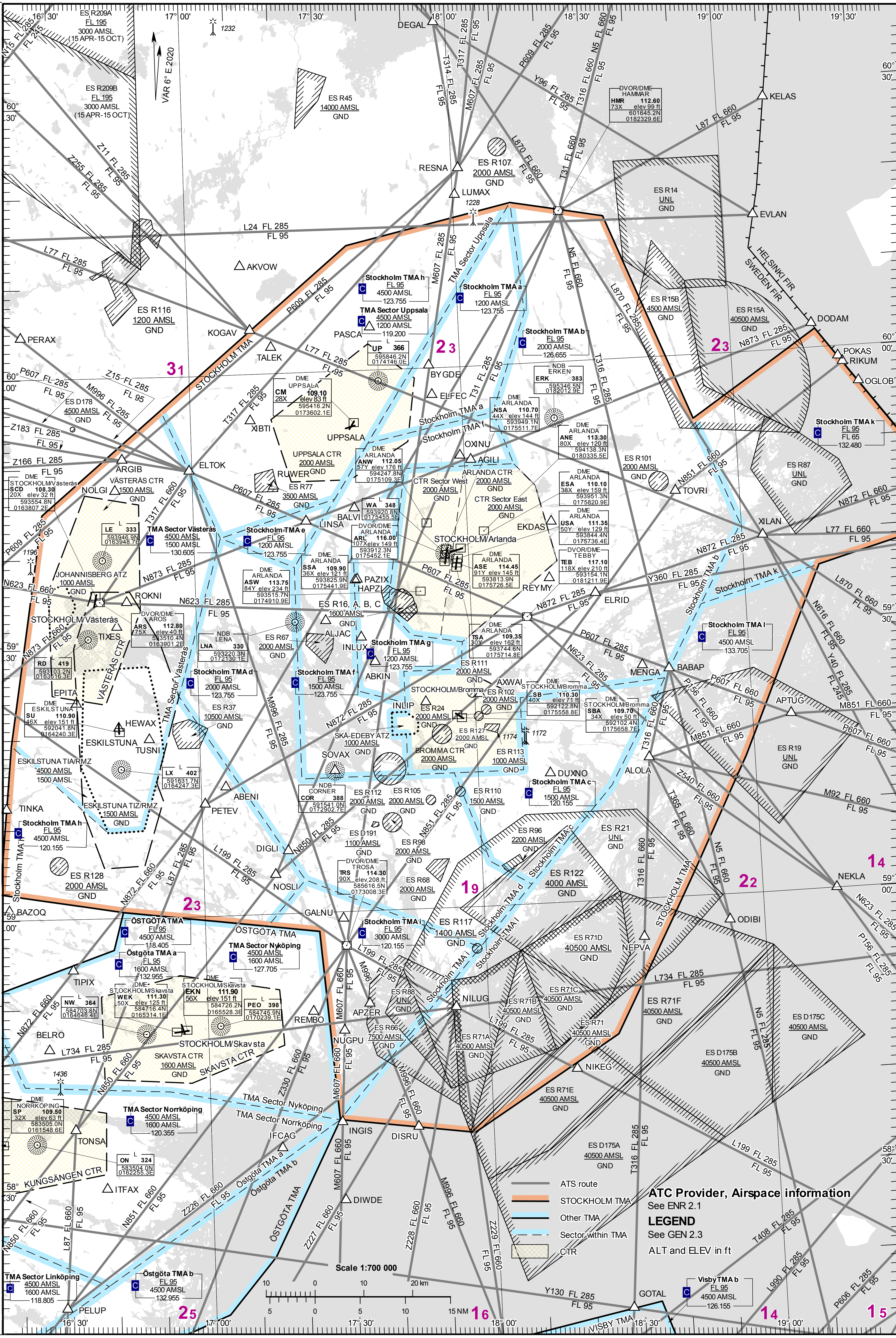
STAND	INS COORD		ELEV ft	PARKING AID
Apron E				
101	593834.85N	0175600.48E	105	SAFEDOCK
103	593833.47N	0175558.59E	105	SAFEDOCK
105	593832.97N	0175559.33E	105	SAFEDOCK
107	593832.10N	0175600.49E	104	SAFEDOCK
109	593830.73N	0175558.59E	104	SAFEDOCK
111	593830.23N	0175559.33E	103	SAFEDOCK
113	593829.35N	0175600.49E	103	SAFEDOCK
115	593827.98N	0175558.60E	102	SAFEDOCK
117	593827.48N	0175559.34E	102	SAFEDOCK
119	593826.61N	0175600.50E	102	SAFEDOCK
Apron F				
F40	593917.08N	0175626.41E	110	SAFEDOCK
F42	593918.39N	0175625.76E	110	SAFEDOCK
F44	593919.70N	0175625.11E	110	SAFEDOCK
Apron G				
G141	593909.33N	0175637.02E	118	INOGON
G142	593911.28N	0175635.82E	118	SAFEDOCK
G143	593913.12N	0175634.87E	118	SAFEDOCK
G144	593914.97N	0175633.93E	118	SAFEDOCK
G145	593916.84N	0175633.00E	117	SAFEDOCK
G146	593918.68N	0175632.09E	115	SAFEDOCK
G148	593920.53N	0175631.16E	114	SAFEDOCK
G149	593920.05N	0175633.16E	117	
Apron H				
ACL	593919.94N	0175652.30E	117	
Apron J				
ACL	593927.08N	0175715.73E	121	
Apron K				
K1	593929.62N	0175729.35E	113	
K2	593927.62N	0175730.73E	115	
K3A	593928.02N	0175734.47E	110	
K3B	593928.69N	0175736.90E	108	
K3C	593929.02N	0175739.51E	106	
K3D	593928.00N	0175734.19E	111	
K3E	593928.86N	0175738.04E	108	
K5	593930.57N	0175751.82E	104	
K5L	593930.70N	0175752.84E	104	
K5R	593930.37N	0175750.34E	104	

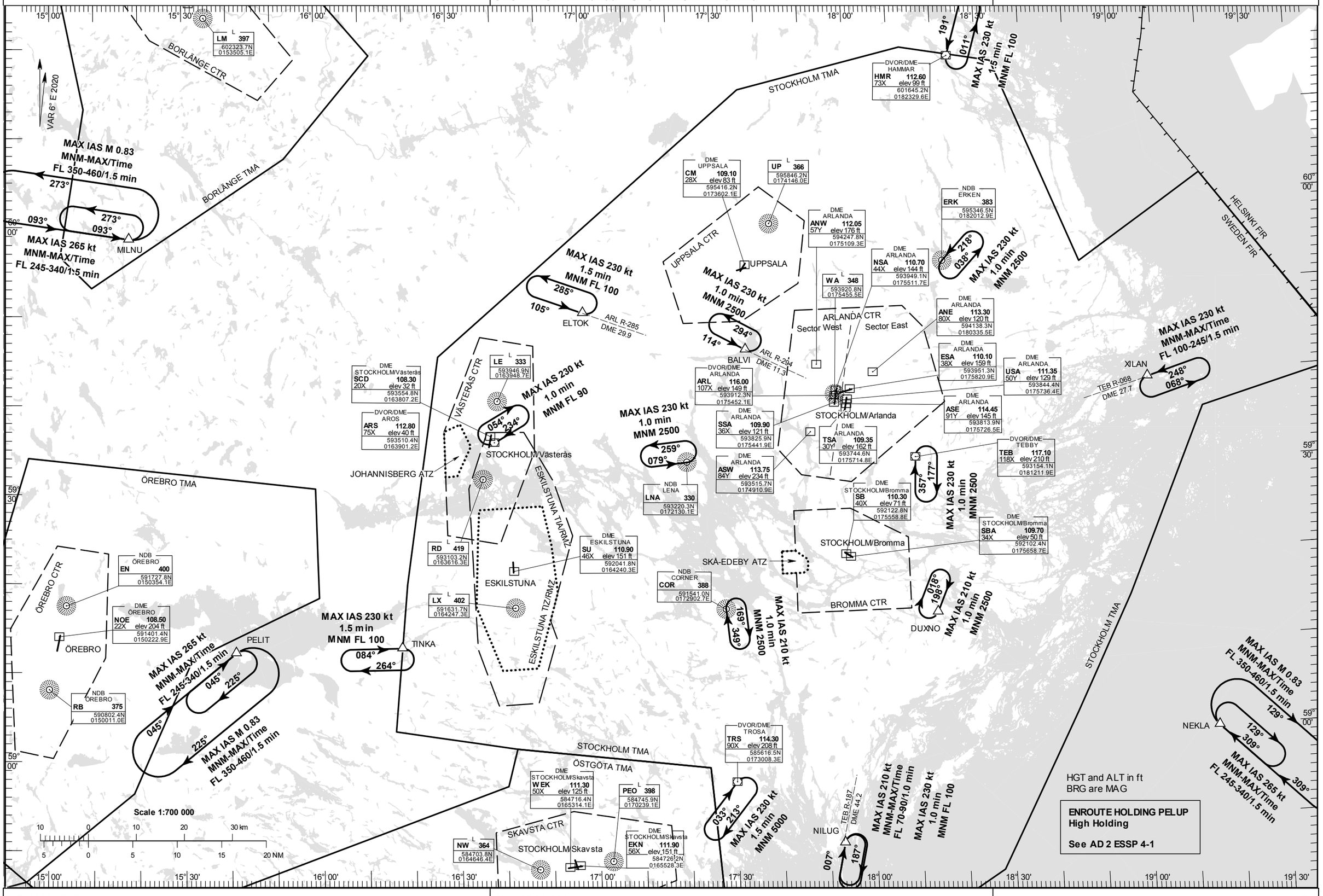
ACL/INS Reference points

STAND	INS COORD		ELEV ft	PARKING AID
Apron L				
ACL	593935.69N	0175826.21E	116	
Apron M				
M5	593846.70N	0175707.40E	94	
M6	593846.40N	0175705.93E	94	
M7	593845.85N	0175704.75E	94	
M8	593844.65N	0175701.39E	94	
M9	593843.61N	0175658.15E	94	
Apron R				
R3	593827.31N	0175532.65E	103	SAFEDOCK
R4	593826.39N	0175536.09E	102	SAFEDOCK
R5	593822.23N	0175536.13E	103	SAFEDOCK
R6	593821.13N	0175540.20E	99	SAFEDOCK
R7	593820.06N	0175544.32E	101	SAFEDOCK
R8	593819.10N	0175548.58E	98	SAFEDOCK
R9	593817.97N	0175552.60E	99	SAFEDOCK
R9C	593819.15N	0175552.91E	100	
R10	593816.98N	0175556.81E	101	SAFEDOCK
Apron S				
S1	593830.69N	0175518.15E	106	
S2	593828.82N	0175517.47E	106	
S3	593826.93N	0175516.79E	106	
S4	593825.48N	0175515.12E	107	
S5	593830.52N	0175514.12E	104	
S6	593823.63N	0175513.48E	107	
S71	593826.25N	0175509.84E	103	INOGON
S72	593825.08N	0175509.40E	103	INOGON
S73	593823.90N	0175508.99E	103	INOGON
S74	593822.72N	0175508.56E	102	INOGON
S75	593821.54N	0175508.14E	102	INOGON
S77	593819.20N	0175507.27E	100	INOGON
S78	593818.02N	0175506.86E	98	INOGON
S79	593816.84N	0175506.43E	96	INOGON
S80	593817.28N	0175510.56E	99	
S81	593816.04N	0175510.15E	97	
S82	593815.19N	0175506.61E	96	

AREA CHART - STOCKHOLM

CHANGE: ES R127, ES R128 new




BORLÄNGE CTR
VAR 6° E 2020
BORLÄNGE TMA
LM 397
602323.7N
0153505.1E
MAX IAS M 0.83
MNM-MAX/Time
FL 350-460/1.5 min
273°
093°
273°
093°
MAX IAS 265 kt
MNM-MAX/Time
FL 245-340/1.5 min
MILNU
STOCKHOLM TMA
DVOR/DME
HAMMAR
HMR 112.60
73X elev 99 ft
601645.2N
0182329.6E
191°
011°
MAX IAS 230 kt
1.5 min
MNM FL 100
HELSINKI FIR
SWEDEN FIR
DME
UPPSALA
CM 109.10
28X elev 83 ft
595416.2N
0173602.1E
L UP 366
595846.2N
0174146.0E
UPPSALA CTR
UPPSALA
DME
ARLANDA
ANW 112.05
57Y elev 176 ft
594247.8N
0175109.3E
NDB
ERKEN
ERK 383
595346.5N
0182012.9E
DME
ARLANDA
NSA 110.70
44X elev 144 ft
593949.1N
0175511.7E
218°
038°
MAX IAS 230 kt
1.0 min
MNM 2500
MAX IAS 230 kt
1.5 min
MNM FL 100
285°
105°
ELTOK
ARL R-285
DME 29.9
MAX IAS 230 kt
1.0 min
MNM 2500
294°
114°
BALVI
ARL R-294
DME 11.3
L WA 348
593920.8N
0175455.5E
ARLANDA CTR
Sector West
Sector East
DME
ARLANDA
ANE 113.30
80X elev 120 ft
594138.3N
0180335.5E
DME
ARLANDA
ESA 110.10
38X elev 159 ft
593951.3N
0175820.9E
DME
ARLANDA
USA 111.35
50Y elev 129 ft
593844.4N
0175736.4E
MAX IAS 230 kt
MNM-MAX/Time
FL 100-245/1.5 min
XILAN
248°
068°
TEB R-068
DME 27.7
DME
STOCKHOLM/Västerås
SCD 108.30
20X elev 32 ft
593554.8N
0163807.2E
DVOR/DME
AROS
ARS 112.80
75X elev 40 ft
593510.4N
0163901.2E
VÄSTERÅS CTR
L LE 333
593946.9N
0163948.7E
MAX IAS 230 kt
1.0 min
MNM FL 90
054°
234°
STOCKHOLM/Västerås
JOHANNISBERG ATZ
ESKILSTUNA TIA/RMZ
DVOR/DME
ARLANDA
ARL 116.00
107X elev 149 ft
593912.3N
0175452.1E
MAX IAS 230 kt
1.0 min
MNM 2500
STOCKHOLM/Arlanda
DME
ARLANDA
SSA 109.90
36X elev 121 ft
593825.9N
0175441.9E
DME
ARLANDA
TSA 109.35
30Y elev 162 ft
593744.6N
0175714.8E
DME
ARLANDA
ASW 113.75
84Y elev 234 ft
593515.7N
0174910.9E
259°
079°
NDB
LENA
LNA 330
593220.3N
0172130.1E
DME
ARLANDA
ASE 114.45
91Y elev 145 ft
593813.9N
0175726.5E
DVOR/DME
TEBBY
TEB 117.10
118X elev 210 ft
593154.1N
0181211.9E
357°
177°
MAX IAS 230 kt
1.0 min
MNM 2500
DME
STOCKHOLM/Bromma
SB 110.30
40X elev 71 ft
592122.8N
0175558.8E
DME
STOCKHOLM/Bromma
SBA 109.70
34X elev 50 ft
592102.4N
0175658.7E
STOCKHOLM/Bromma
SKÄ-EDEBY ATZ
BROMMA CTR
ÖREBRO TMA
ÖREBRO CTR
NDB
ÖREBRO
EN 400
591727.8N
0150354.1E
DME
ÖREBRO
NOE 108.50
22X elev 204 ft
591401.4N
0150222.9E
ÖREBRO
NDB
ÖREBRO
RB 375
590802.4N
0150011.0E
MAX IAS 265 kt
MNM-MAX/Time
FL 245-340/1.5 min
PELIT
045°
225°
045°
225°
MAX IAS M 0.83
MNM-MAX/Time
FL 350-460/1.5 min
L RD 419
593103.2N
0163616.3E
DME
ESKILSTUNA
SU 110.90
46X elev 151 ft
592041.8N
0164240.3E
ESKILSTUNA
L LX 402
591631.7N
0164247.3E
ESKILSTUNA TIZ/RMZ
MAX IAS 230 kt
1.5 min
MNM FL 100
084°
264°
TINKA
NDB
CORNER
COR 388
591541.0N
0172902.7E
169°
349°
MAX IAS 210 kt
1.0 min
MNM 2500
018°
198°
DUXNO
MAX IAS 210 kt
1.0 min
MNM 2500
STOCKHOLM TMA
ÖSTGÖTA TMA
DME
STOCKHOLM/Skavsta
WEK 111.30
50X elev 125 ft
584716.4N
0165314.1E
L PEO 398
584745.9N
0170239.1E
SKAVSTA CTR
STOCKHOLM/Skavsta
L NW 364
584703.8N
0164646.4E
DME
STOCKHOLM/Skavsta
EKN 111.90
56X elev 151 ft
584726.2N
0165528.3E
DVOR/DME
TROSA
TRS 114.30
90X elev 208 ft
585616.5N
0173008.3E
033°
213°
MAX IAS 230 kt
1.5 min
MNM 5000
TEB R-187
DME 44.2
NILUG
007°
187°
MAX IAS 210 kt
MNM-MAX/Time
FL 70-90/1.0 min
MAX IAS 230 kt
1.0 min
MNM FL 100
MAX IAS M 0.83
MNM-MAX/Time
FL 350-460/1.5 min
129°
309°
NEKLA
MAX IAS 265 kt
MNM-MAX/Time
FL 245-340/1.5 min
309°
HGT and ALT in ft
BRG are MAG
ENROUTE HOLDING PELUP
High Holding
See AD 2 ESSP 4-1
Scale 1:700 000
10 0 10 20 30 km
5 0 5 10 15 20 NM
15° 00'
15° 30'
16° 00'
16° 30'
17° 00'
17° 30'
18° 00'
18° 30'
19° 00'
19° 30'
60° 00'
59° 30'
59° 00'

RNAV SIDs at STOCKHOLM/ARLANDA

Note: This information must be included in Company Route Manuals.

GENERAL

RNAV SIDs at Stockholm/Arlanda are designed in order to minimize noise dispersion resulting from ACFT flying outside designated tracks. CPDLC available at all levels, including TMA. Crew should log on with ESOS before take-off.

APPROVED USERS, EQUIPMENT AND OPERATIONS

All RNAV SIDs are based on RNAV 1.
Operators receiving clearance via RNAV SID and are unable flying RNAV 1, shall inform ATC by using phraseology ”UNABLE RNAV SID”

POSITION UPDATE

All RNAV SIDs are based on DME/DME or GNSS for position update. Failure of one DME in Stockholm TMA will not affect RNAV navigation based on DME/DME.

RNAV EQUIPMENT FAILURE

If the airborne /RNAV equipment fails, ATS shall be informed as soon as practicable. ATC will then provide radar vectors.

NON RNAV EQUIPPED AIRCRAFT

Departing aircraft that is not equipped for RNAV SID shall inform Clearance Deliver by using phraseology ”UNABLE RNAV SID DUE RNAV TYPE”. After receiving a SID, Non RNAV aircraft shall follow instructions in ”ACFT unable to follow RNAV SID”, that contains tracks/altitude/speed for the first part and can thereafter expect radar vectors to the exit point stated in the flight plan.

Additionaly at first contact with STOCKHOLM DEPARTURE, aircraft shall report altitude to verify SSR Mode C, and once again report that aircraft is unable to follow RNAV SID by using phraseology ”UNABLE RNAV SID”.

APPLIED PRACTICE FOR LOW SPEED AIRCRAFT

ACFT, described below, will during daytime 0500-2100 (0400-2000) be cleared to follow low speed departure routes (climb-out on a heading or track to an altitude) instead of SIDs. These low speed departure routes will be assigned by ATC.

- Propeller driven ACFT with a MTOW less than 9 tons.
- Propeller driven ACFT with a MTOW more than 9 tons which fulfill the requirements in ICAO Annex 16 chapter 3 or 5.

Note:
Some high speed propeller driven ACFT will be cleared to follow SIDs (e.g. SAAB 2000, Dash 8 Q400).

Some noisy propeller driven ACFT will be cleared to follow SIDs due to environmental restrictions. (e.g. Lockheed C-130 Hercules, Hawker Siddley HS 748).

RNAV SID INSTRUCTION

For each RNAV SID, there is a description as a list of waypoints in sequence, where FLY-OVER WPTs are printed underlined. If there is a speed limit, it will be notified in the list. There is also a description of the database coding to be used by navdatabase suppliers only. The coding is according to ARINC 424 standard.

Note: In order to adapt SID coding to certain FMS equipment, a minimum 1500 ft altitude restriction is added at some waypoints in those first turns where a speed restriction is prescribed.

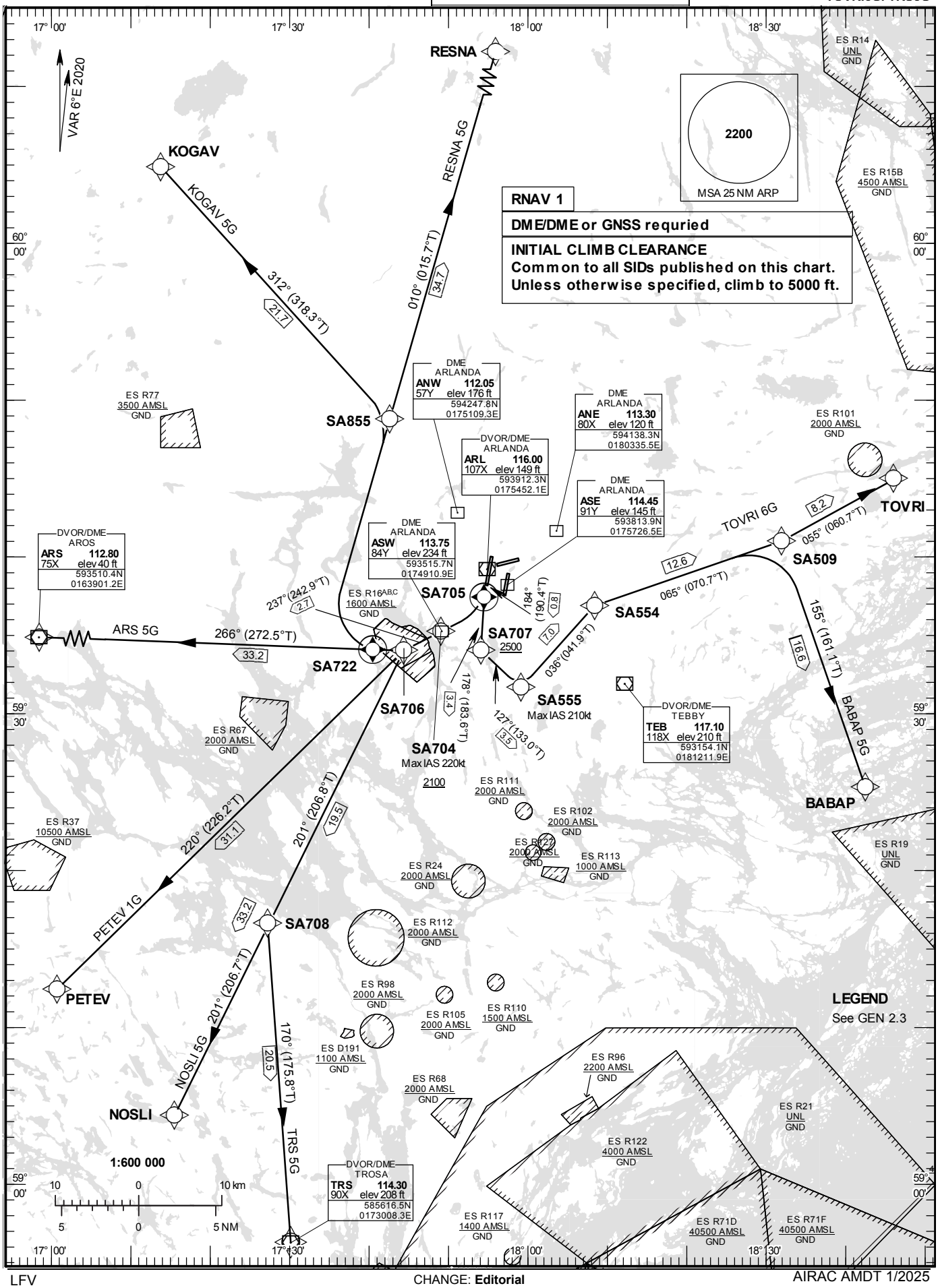
STANDARD INSTRUMENT DEPARTURE CHART (SID) - ICAO

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

ARLANDA TOWER	118.505
ARLANDA ATIS DEP	121.630
STOCKHOLM APPROACH	123.755

RNAV RWY 19R

ARS5G, BABAP5G, KOGAV5G, NOSLI5G, PETEV1G, RESNA5G, TOVRI6G. TRS5G



Prescribed Coding of RNAV SID for RWY 19R

Notes:

INITIAL CLIMB CLEARANCE: Climb to 5000 ft unless otherwise specified. Common to all SIDs published on charts.

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

Aircraft from STOCKHOLM/Arlanda shall not be operated at an airspeed of more than 250 kt IAS below FL 100 unless otherwise instructed.

Contact Frequency: Contact STOCKHOLM DEPARTURE, when so instructed by TWR, on channel indicated below.

ARS 5G

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/ RDH (°/ft)	Rec Navaid	Navigation Specification
CF	SA705	Y	184°(190.4°)	0.8	-	-	-	-	ARL	RNAV 1
DF	SA704	-	-	-	R	+2100	-220	-	-	RNAV 1
TF	SA706	-	237° (242.9°)	2.7	-	-	-	-	-	RNAV 1
TF	ARS	-	266° (272.5°)	33.2	-	-	-	-	-	RNAV 1

SID instruction: Climb on track 184° to SA705 – SA704 (MNM 2100 ft, max IAS 220 kt) – SA706 – ARS (MNM climb gradient 7.6% (460 ft/NM) until SA704) **124.105 MHz**

ACFT unable to follow RNAV SID: Report ”unable RNAV SID due RNAV type” to Clearance Delivery and ”unable RNAV SID” to Stockholm Departure at first contact.
Climb on track 184° to ARL DME 2. Turn right to track 239° (max IAS 220 kt in turn) and continue climb to MNM 2100 ft at ARL DME 5.0 Expect radar vectors to ARS.
(MNM climb gradient 7.6% (460 ft/NM) until ARL DME 5.0)

BABAP 5G

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/ RDH (°/ft)	Rec Navaid	Navigation Specification
CF	SA705	Y	184°(190.4°)	0.8	-	-	-	-	ARL	RNAV 1
TF	SA707	-	178°(183.6°)	3.4	-	+2500	-	-	-	RNAV 1
TF	SA555	-	127°(133.0°)	3.5	-	-	-210	-	-	RNAV1
TF	SA554	-	036°(041.9°)	7.0	L	-	-	-	-	RNAV 1
TF	SA509	-	065°(070.7°)	12.6	-	-	-	-	-	RNAV 1
TF	BABAP	-	155°(161.1°)	16.6	R	-	-	-	-	RNAV 1

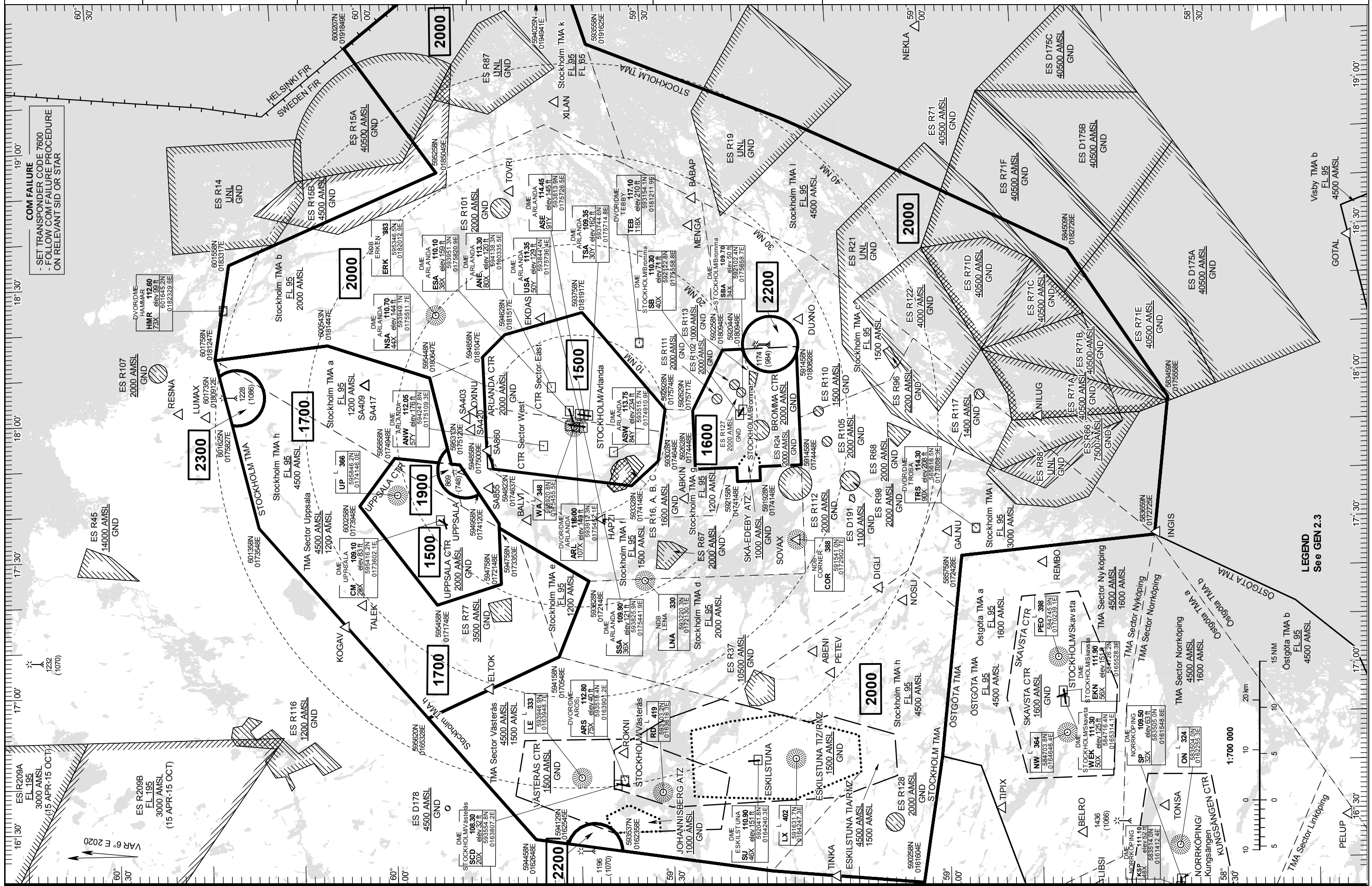
SID instruction: Climb to SA705 on course 184°. Turn left on course 178° to SA707. Turn left to SA555 (max IAS 210 kt) – SA554 – SA509 – BABAP. **130.330 MHz**

MNM climb gradient 13.3% (810 ft/NM) until SA707, due to separation criteria.

Note: If unable 2500 ft before turn at SA707, continue on track 178° and inform ATC.

MNM climb gradient 4.8% (295 ft/NM) until SA707, due to obstacles.

ACFT unable to follow RNAV SID: Report ”unable RNAV SID due RNAV type” to Clearance Delivery and ”unable RNAV SID” to Stockholm Departure at first contact. Climb on track 184° to ARL DME 2. Turn left to track 178° to ARL DME 5.2. At or above 2500 ft turn left to track 127°(max IAS 210 kt). Expect radar vectors to BABAP.


COM FAILURE
- SET TRANSPONDER CODE 7600
- FOLLOW COM FAILURE PROCEDURE ON RELEVANT SID OR STAR
HELSINKI FIR
SWEDEN FIR
STOCKHOLM TMA
Stockholm TMA k
Stockholm TMA l
Stockholm TMA b
Stockholm TMA a
Stockholm TMA h
Stockholm TMA e
Stockholm TMA d
Stockholm TMA g
Stockholm TMA f
Stockholm TMA i
Visby TMA b
Östgöta TMA a
Östgöta TMA b
ARLANDA CTR
BROMMA CTR
UPPSALA CTR
VÄSTERÅS CTR
SKAVSTA CTR
ESKILSTUNA TIZ/RMZ
JOHANNISBERG ATZ
CTR Sector East
CTR Sector West
TMA Sector Uppsala
TMA Sector Västerås
TMA Sector Nyköping
TMA Sector Norrköping
ÖSTGÖTA TMA
LEGEND
See GEN 2.3
1:700 000
VAR 6° E 2020
RESNA
LUMAX
KOGAV
TALEK
ELTOK
TOVRI
BABAP
MENGA
EKDAS
ABKIN
HAPZI
BALVI
SA403
SA420
SA860
SA855
DUXNO
DIGLI
NOSLI
ABENI
PETEV
TIPIX
TINKA
LUBSI
BELRO
TONSA
GALNU
REMBO
INGIS
NEKLA
GOTAL
PELUP
KNILUG
ES R107 2000 AMSL GND
ES R14 UNL GND
ES R15A 40500 AMSL GND
ES R15B 4500 AMSL GND
ES R87 UNL GND
ES R101 2000 AMSL GND
ES R19 UNL GND
ES R21 UNL GND
ES R71 40500 AMSL GND
ES R71F 40500 AMSL GND
ES D175C 40500 AMSL GND
ES D175B 40500 AMSL GND
ES D175A 40500 AMSL GND
ES R71D 40500 AMSL GND
ES R71C 40500 AMSL GND
ES R71E 40500 AMSL GND
ES R71A 40500 AMSL GND
ES R71B 40500 AMSL GND
ES R66 7500 AMSL GND
ES R88 UNL GND
ES R122 4000 AMSL GND
ES R96 2200 AMSL GND
ES R117 1400 AMSL GND
ES R105 2000 AMSL GND
ES R68 2000 AMSL GND
ES R98 2000 AMSL GND
ES D191 1100 AMSL GND
ES R112 2000 AMSL GND
ES R67 2000 AMSL GND
ES R37 10500 AMSL GND
ES R127 2000 AMSL GND
ES R128 2000 AMSL GND
ES R24 2000 AMSL GND
ES R111 2000 AMSL GND
ES R102 2000 AMSL GND
ES R113 1000 AMSL GND
ES R110 1500 AMSL GND
ES R77 3500 AMSL GND
ES R116 1200 AMSL GND
ES R45 14000 AMSL GND
ES R209A FL 195 3000 AMSL (15 APR-15 OCT)
ES R209B FL 195 3000 AMSL (15 APR-15 OCT)
ES D178 4500 AMSL GND
Stockholm TMA 2000 AMSL
Stockholm TMA FL 95 2000 AMSL
Stockholm TMA FL 95 1500 AMSL
Stockholm TMA FL 95 1200 AMSL
Stockholm TMA FL 95 4500 AMSL
Stockholm TMA FL 95 4500 AMSL
Stockholm TMA FL 95 3000 AMSL
Stockholm TMA FL 95 2000 AMSL
Stockholm TMA FL 95 1600 AMSL
Stockholm TMA FL 95 1200 AMSL
Stockholm TMA FL 95 4500 AMSL
Visby TMA FL 95 4500 AMSL
Östgöta TMA FL 95 4500 AMSL
TMA Sector Uppsala 4500 AMSL 1200 AMSL
TMA Sector Västerås 4500 AMSL 1500 AMSL
TMA Sector Nyköping 4500 AMSL 1600 AMSL
TMA Sector Norrköping 4500 AMSL 1600 AMSL
ARLANDA CTR 2000 AMSL GND
BROMMA CTR 2000 AMSL GND
UPPSALA CTR 2000 AMSL GND
VÄSTERÅS CTR 1500 AMSL GND
SKAVSTA CTR 1600 AMSL GND
ESKILSTUNA TIZ/RMZ 1500 AMSL GND
JOHANNISBERG ATZ 1000 AMSL GND
HMR 73X 113.60 elev 199 ft
ERK 383
ESA 38X 110.10 elev 159 ft
ANE 80X 113.30 elev 120 ft
NSA 44X 110.70 elev 144 ft
ANW 57Y 112.05 elev 176 ft
ASW 94Y 113.75 elev 234 ft
USA 50Y 111.35 elev 128 ft
ASE 91Y 114.45 elev 148 ft
TSA 30Y 108.35 elev 162 ft
TEB 118X 117.10 elev 210 ft
SB 40X 110.30 elev 171 ft
SBA 34X 109.70 elev 157 ft
UP 366
WA 348
ARL 107X 116.00 elev 149 ft
SSA 36X 109.90 elev 121 ft
LNA 330
CM 28X 109.10 elev 83 ft
LE 333
ARS 75X 112.80 elev 40 ft
RD 419
SCD 20X 108.30 elev 32 ft
SU 46X 115.90 elev 157 ft
LX 402
TRS 90X 114.30 elev 208 ft
PEO 398
WEK 50X 111.30 elev 125 ft
EKN 56X 111.30 elev 125 ft
NW 364
SP 32X 109.50 elev 63 ft
ON 324
KSP 48X 111.10 elev 62 ft
COR 388
1700
2000
1500
1600
2200
1900
2300
1174 (984)
1228 (1086)
1232 (1070)
1436 (1066)
1196 (1070)
869 (748)

AD 2 AERODROMES

ESSB 2.1 AERODROME LOCATION INDICATOR AND NAME

ESSB – STOCKHOLM/BROMMA

ESSB 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	ARP coordinates and site at AD	592116N 0175632E 125° GEO 840 m from THR 12
2.	Direction and distance from (city)	WNW 4 NM from centre of Stockholm
3.	Elevation/Reference temperature	47 ft/+24.9°C
4.	Geoid undulation at AD ELEV PSN	77 ft
5.	MAG VAR/Annual change	6° E 2020/+0.2 increasing
6.	Administration, address, telephone, fax, AFS	Swedavia AB SE-168 67 Bromma TEL: +46 (0)10 109 10 00 FAX: +46 (0)10 109 05 00 E-mail: info.arlanda@swedavia.se AFS: ESSBZTZX Website: www.swedavia.se/Bromma www.swedavia.net/airport/Bromma
7.	Types of traffic permitted (IFR/VFR)	IFR/VFR. Max RWY ref code 3C
8.	Remarks	PPR for all non-scheduled flights. For application and details see ESSB 2.20

ESSB 2.3 OPERATIONAL HOURS

1.	AD Administration AD Operating hours	Ref AIP SUP/NOTAM Ref AIP SUP/NOTAM
2.	Customs and immigration	O/R
3.	Health and sanitation	-
4.	AIS Briefing Office	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
5.	ATS Reporting Office (ARO)	As ATS
6.	MET Briefing Office	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
7.	ATS	MON-FRI 0545-2100 (0445-2000), SAT 0745-1600 (0645-1500), SUN 1045-2100 (0945-2000)
8.	Fuelling	MON-FRI 0500-2100 (0400-2000), SAT 0700-1600 (0600-1500), SUN 1000-2100 (0900-2000)
9.	Handling	MON-FRI 0500-2100 (0400-2000), SAT 0700-1600 (0600-1500), SUN 1000-2100 (0900-2000)
10.	Security	MON-FRI 0500-2100 (0400-2000), SAT 0700-1600 (0600-1500), SUN 1000-2100 (0900-2000)
11.	De-Icing	MON-FRI 0500-2100 (0400-2000), SAT 0700-1600 (0600-1500), SUN 1000-2100 (0900-2000)
12.	Remarks	See ESSB 2.20

ESSB 2.4 HANDLING SERVICES AND FACILITIES

1.	Cargo-handling facilities	Limited/By arrangement
2.	Fuel/oil types	Fuel Jet A1, 100LL Oil Turbo oil, Piston oil, Hydraul oil
3.	Fuelling facilities/discharge capacity	Jet A1: Fuelling trucks. No limitations 100LL: Stationary unit 25,000 l, 90 l/min
4.	De-icing facilities	Available, Type I and II, mobile unit
5.	Hangar space for visiting ACFT	Limited
6.	Repair facilities for visiting ACFT	Available, various types
7.	Remarks	For payment of fuel Jet A1 only BP and Shell fuel card accepted. Fuel 100LL prior arrangement required through handling companies. Oil prior arrangement required.

ESSB 2.5 PASSENGER FACILITIES

1.	Hotels	Walking distance from AD
2.	Restaurants	Walking distance from AD
3.	Transportation	Tram, taxis, rental cars
4.	Medical facilities	In City
5.	Bank and Post Office	In City
6.	Tourist Office	In City
7.	Remarks	-

ESSB 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	CAT 6
2.	Rescue equipment	Tracked vehicle in accordance with AD category for firefighting CAT 6 and arrangement with additional recourses from municipal rescue service
3.	Capability for removal of disabled aircraft	By arrangement. On-the-scene commander during AD Operating hours, APOC Supervisor TEL: +46 (0)10 109 13 00
4.	Remarks	-

ESSB 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	Snowploughs, blowers, sweepers, loaders, graders
2.	Clearance priorities	RWY, TWY, Apron
3.	Remarks	RWY 12/30, TWYs and aprons de-iced with KFOR/NAFO/SAND

ESSB 2.14 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	-

10 Remarks:
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	Unlighted windsock BTN RWY and TWY Y and lighted windsocks at aiming points for RWY 12 and 30
	Anemometer location and LGT	Unlighted anemometers N of TWY Y1 and N of THR 30
3.	TWY edge and centre line lighting	Edge: TWY G1 CL: TWY R, S, T, Y, Y1, Y2, Y3, Y4, Y5, YU, YW LED lights on all TWY Centre Line LGT 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 - 592258N 0180948E - 591458N 0180948E - 591458N 0174448E - 591928N 0174448E - 591928N 0174148E - 592158N 0174148E - 592158N 0174448E - 592628N 0174448E
2.	Vertical limits	BROMMA CTR	2000 ft AMSL / GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	BROMMA TOWER Swedish/English	
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	CTR established during hours of TWR. 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	-

ESSB 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 (6° E 2020)	SB	110.30 MHz	HO	592057.0N 0175722.4E		179 m beyond THR 30 LOC Class I/E/2
GP		335.00 MHz	HO	592123.1N 0175559.0E		Angle 3.5° RDH 50.9 ft 303 m past THR 12 right side Horizontal coverage SW approach line limited to 4° GP Class I/C/2
LOC 30 ILS CAT I (6° E 2020)	SBA	109.70 MHz	HO	592143.1N 0175513.4E		643 m beyond THR 12 LOC Class I/E/2
GP		333.20 MHz	HO	592102.5N 0175658.8E		Angle 3.5° RDH 36.1 ft 225 m past THR 30 left side GP Class I/T/2
NDB	COR	388 kHz	H24	591541.0N 0172902.7E		Range 25 NM
DME	SB	110.30 MHz	H24	592122.8N 0175558.8E	71 ft	305 m past THR 12 right side DME channel 40X
DME	SBA	109.70 MHz	H24	592102.4N 0175658.7E	50 ft	Limited coverage inside 9° left of RWY CL to 35° right of RWY CL at 17 NM below 2400 ft QFE. Limited coverage outside 9° to 19° left of RWY CL at 17 NM below 3400 ft QFE. Limited coverage outside 19° to 35° left of RWY CL at 17 NM below 6400 ft QFE. Limited coverage at ±10° from RWY CL at 25 NM below 4900 ft QFE. 225 m past THR 30 left side DME channel 34X

ESSB 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. Tillgänglighet

1.1. STOCKHOLM/Bromma får användas endast:
MON–FRI 0600–2100 (0500–2000)
SAT 0800–1600 (0700–1500)
SUN 1100–2100 (1000–2000)
Helg infallande MON–FRI 0600–2100 (0500–2000)

1.2. Flygplatsen får inte användas som alternativ av luftfartyg i ambulans- och räddningsuppdrag på andra tider än vad som anges ovan eller i AIP SUP/NOTAM.

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

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

LOCAL TRAFFIC REGULATIONS

1. Availability

1.1. STOCKHOLM/Bromma AD may be used only:
MON–FRI 0600–2100 (0500–2000)
SAT 0800–1600 (0700–1500)
SUN 1100–2100 (1000–2000)
Holiday occuring MON–FRI 0600–2100 (0500–2000)

1.2. The aerodrome must not be used as alternate by ambulance and rescue flights outside the operational hours as stated above or in AIP SUP/NOTAM.

1.3. 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.

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

Flygningar som är undantagna:

a) Statsflygningar.
b) Humanitära flygningar t.ex. akuta medicinska flygningar, organtransporter, flygningar som deltar i räddningsinsats och ambulansflygningar där patientens tillstånd är akut.
c) Nödlandningar.

För GA-trafik kan SLOT-begäran göras tidigast 28 dagar innan beräknad avgång eller ankomst och senast i samband med inlämning av färdplan.

Kontaktinformation:

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

Telefon: +46 (0)70 597 82 66

SCR/GCR: scr@airportcoordination.com
OCS: www.online-coordination.com
Onlinetjänsten tillgänglig: H24

För mer information: www.airportcoordination.com

1.4. Förhandstillstånd erfordras (PPR) för flyg som ej opererar i linjetrafik och som har en MTOM på max 4000 kg alternativt för helikopter max D. 13 m. Ansökan om PPR kan maximalt beviljas för en ankomst samt en avgång per luftfartygsindivid och trafikdygn. Undantaget är flygningar som opererar till/från eget arrenderat område på flygplatsen, har avtal gällande marktjänst eller teknisk service hos aktör på flygplatsen. Undantaget gäller även för tankning av luftfartyg som används av Försvarsmakten eller Polismyndighet, ambulansflyg samt luftfartyg som används i räddningsinsats.

Ansökan ska göras via e-post till rtsamordning@swedavia.se, tidigast 7 dagar och senast 24 timmar innan ETA. Dessa flygningar hänvisas till Apron East av flygtrafikledningen. Parkering är begränsat till maximalt 48 timmar. För ytterligare information kontakta Aircraft Stand Parking TEL: 010 109 10 52.

1.5. För luftfartyg med en MTOM överskridande 4000 kg alternativt för helikopter D. över 13 m gäller obligatorisk nyttjande av marktjänst.

1.6. Operatör som vill trafikera flygplatsen med en flygplanstyp som har en högre referensbokstavskod än C skall skriftligt ansöka om detta till Aircraft Stand Parking för vidare handläggning hos tillståndsmyndigheten enligt gällande EASA krav. Förfrågan skickas till rtsamordning@swedavia.se. Förfrågan kan endast handläggas under kontorstid. Eventuella frågor besvaras på TEL 010 109 10 52.

2. Utanför ATS öppethållning bör luftfartyg blindsända på kanal 118.105 vid flygning över Stockholm och Stockholm stad.

3. Särskilda föreskrifter omkring öppningsstid

Klarering och start-up får inte begäras tidigare än 15 minuter före öppethållningstid enligt mom 1.

Flights that are exempted:

a) State flights.
b) Humanitarian flights i.e. medical emergencies, donor flights, search and rescue operations and air ambulance flights where the condition of patient is urgent.
c) Emergency landings.

For GA traffic request of SLOT can be made earliest 28 days before estimated departure or arrival and latest in connection with filing the flight plan.

Contact information:

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

Phone: +46 (0)70 597 82 66

SCR/GCR: scr@airportcoordination.com
OCS: www.online-coordination.com
Online service: H24

For more information: www.airportcoordination.com

1.4. Prior permission required (PPR) for non-scheduled flights with MTOM max 4000 kg or helicopters max D.13 m. Application for PPR can at a maximum be granted for one arrival and one departure to each aircraft and traffic day. Exceptions apply for flights operating to/from own property at the aerodrome, flights having ground handling or technical service contracted at the aerodrome. Exceptions also apply for fueling of flights operated by the Swedish Armed Forces or Swedish Police authorities, hospital flights and aircraft participating in rescue operations.

Application via e-mail to rtsamordning@swedavia.se, earliest 7 days and latest 24 hours prior ETA. Non-scheduled flights will be directed to Apron East by ATC. Parking is limited to 48 hours.
For further information contact Aircraft Stand Parking phone: +46(0)10 109 10 52.

1.5. Aircrafts with MTOM exceeding 4000 kg or for helicopters with D. more than 13 m are obliged to contract ground handling agent.

1.6. Operators wishing to operate the airport with an aircraft with a higher reference code letter than C shall apply for permission to Aircraft Stand Parking for further evaluation by the competent authority according to EASA regulations. Request shall be addressed to rtsamordning@swedavia.se. The request can be handled during office hours only. Information available by phone +46 (0)10 109 10 52.

2. Outside ATS hours of operations intensions should be transmitted on channel 118.105 when flying over Stockholm and Stockholm city.

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.

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
Luftfartyg 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”**.

Taxning till/från platta 4 via TWY R förväntas taxa kortaste väg på TWY T till/från TWY Y (alltså ej via platta 2).

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 clearence

Start-up and ATC clearance shall be requested from »Ground» on channel 121.605. Aircraft position and dentification 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”.**

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).

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).

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).

Taxning till och från uppställningsplats R5 – R9 är inte tillåtet, endast bogsering. För bogsering kontakta Bromma Operations Center TEL 010 109 41 40.

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.

Luftfartygsrörelser inom samtliga plattor där dagermarkering taxningslinje saknas, skall assisteras av rangeringspersonal. Undantag medges endast för luftfartyg till/från tanknings-anläggning på Apron East, där befälhavare navigerar under egen uppsikt och säkerställer korrekt positionering inom därför avsedd yta.

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. Skol-, uppvisning- och övningsflygning med flygplan och helikopter

7. School flights, training flights and aerobatics with aircraft and helicopter

Det är inte tillåtet att utföra upprepade start- och landningsövningar samt uppvisningsflyg på eller i närheten av flygplatsen.

Repeated take-off and landing exercises and aerobatics at or in the vicinity of the airport is not permitted.

Simulering av motorbortfall är inte tillåten.

Simulated engine failures are not permitted.

För att minska bullerstörning är hovring i skol- och övningssyfte ej tillåtet. Helikoptrar får endast hovra i samband med taxning.

Due to noise, hovering for school and training purposes is not allowed. Helicopters are only allowed to hover for airtaxi purposes.

8. Undvikande av jetstrålar

8. Avoidance of jet blast

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.

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. Motortestplats

9. Engine test area

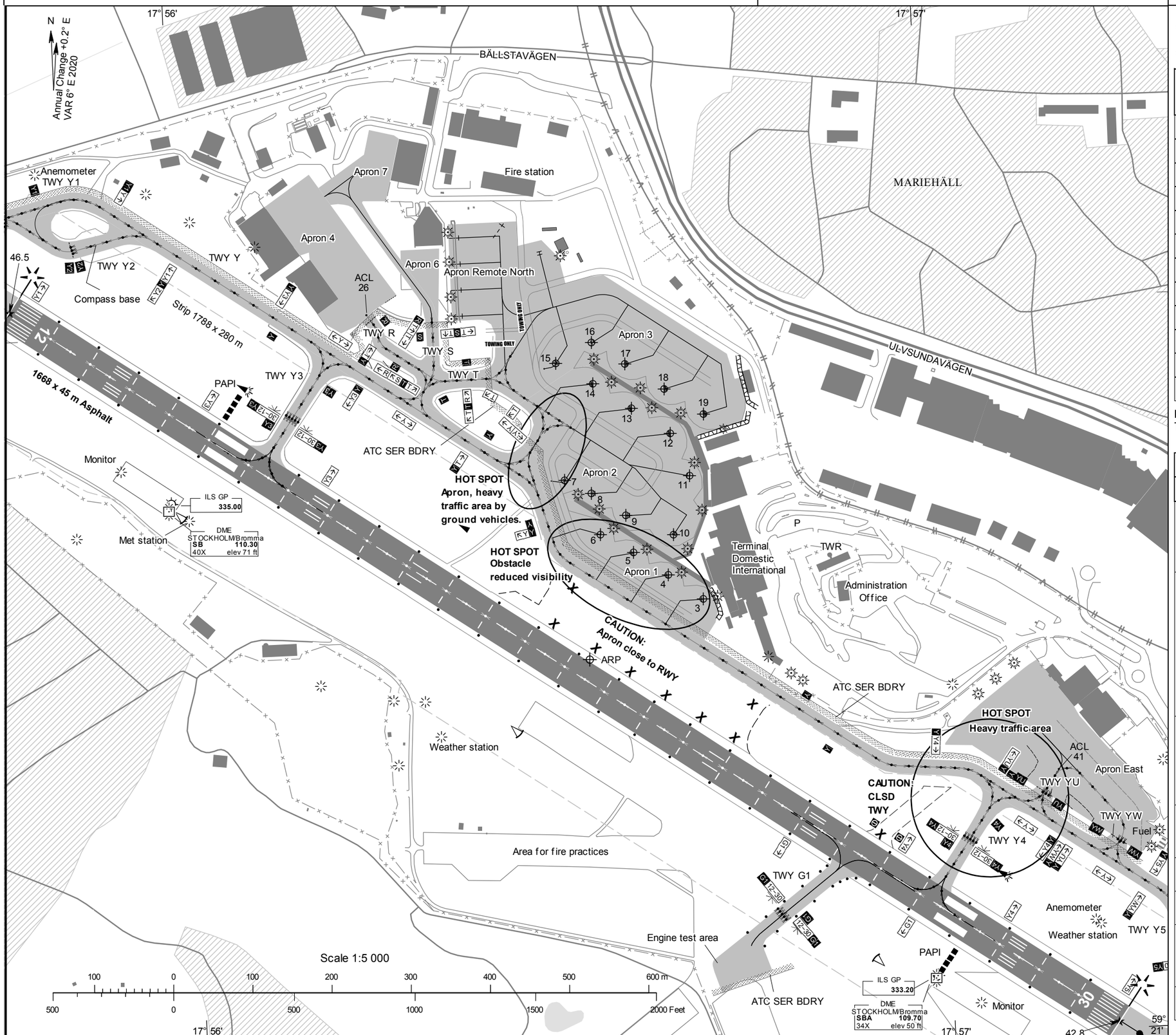
Motortestplats endast tillgänglig när dagsljus råder MON-SAT 0800-1500 (0700-1400) och SUN 1100-1500 (1000-1400) med en sammanhängande tid på max 30 min.

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.

Kontrollkörning av motorer är endast tillåten efter godkännande från Aircraft Stand Parking,
Telefon: 010 109 10 52.

Test running of engines is only allowed after approval from Aircraft Stand Parking, Phone: +46 (0)10 109 10 52.

PARKING/DOCKING CHART – ICAO



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 Holding	Edge Centerline	RGL Stopbar
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 64 F/A/X/T	CL HLDG	CL	RGL STOPBAR
Y4	19 m	PCN 55 F/B/X/T	CL HLDG	CL	RGL STOPBAR
Y5	19 m	PCN 38 F/A/X/T	CL HLDG	CL	RGL STOPBAR
YU	24 m	PCN 71 F/A/X/T	CL ITHP	CL	
YW	24 m	PCN 103 F/A/X/T	CL ITHP	CL	

REMARK: Pilot will receive instructions to change to GND frequency from TWR after landing.

INS Coordinates for Aircraft Stands			
APRON Bearing strength	NR	COORD	ELEV
Apron 1 ASPH PCN 82 F/B/X/T	3	592118.27 N 0175641.31 E	18
	4	592119.31 N 0175638.60 E	17
	5	592120.29 N 0175635.90 E	18
	6	592121.09 N 0175633.30 E	18
Apron 2 ASPH PCN 85 F/B/X/T	7	592123.37 N 0175630.63 E	18
	8	592122.78 N 0175632.72 E	18
	9	592121.82 N 0175635.41 E	17
	10	592120.96 N 0175639.17 E	18
	11	592123.33 N 0175640.65E	16
	12	592125.10 N 0175639.26 E	15
	13	592126.18 N 0175636.24 E	16
	14	592127.26 N 0175633.22 E	18
Apron 3 ASPH PCN 80 F/B/X/T	15	592128.16 N 0175630.31 E	18
	16	592128.95 N 0175633.26 E	19
	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 East ASPH PCN 98 F/A/X/T (W part: PCN 30 F/A/X/T)			
Apron 4 ASPH PCN 44 F/B/X/T			
Apron 6 ASPH PCN 14 F/A/X/T			
Apron 7 ASPH PCN 19 F/B/X/T Narrow part connecting to TWY S PCN 12 F/A/X/T			
Apron Remote North ASPH PCN 101 F/A/X/T			

VISUAL APPROACH CHART - ICAO

1:250000

1 0 1 2 3 4 5 km

1 0 1 2 3 NM

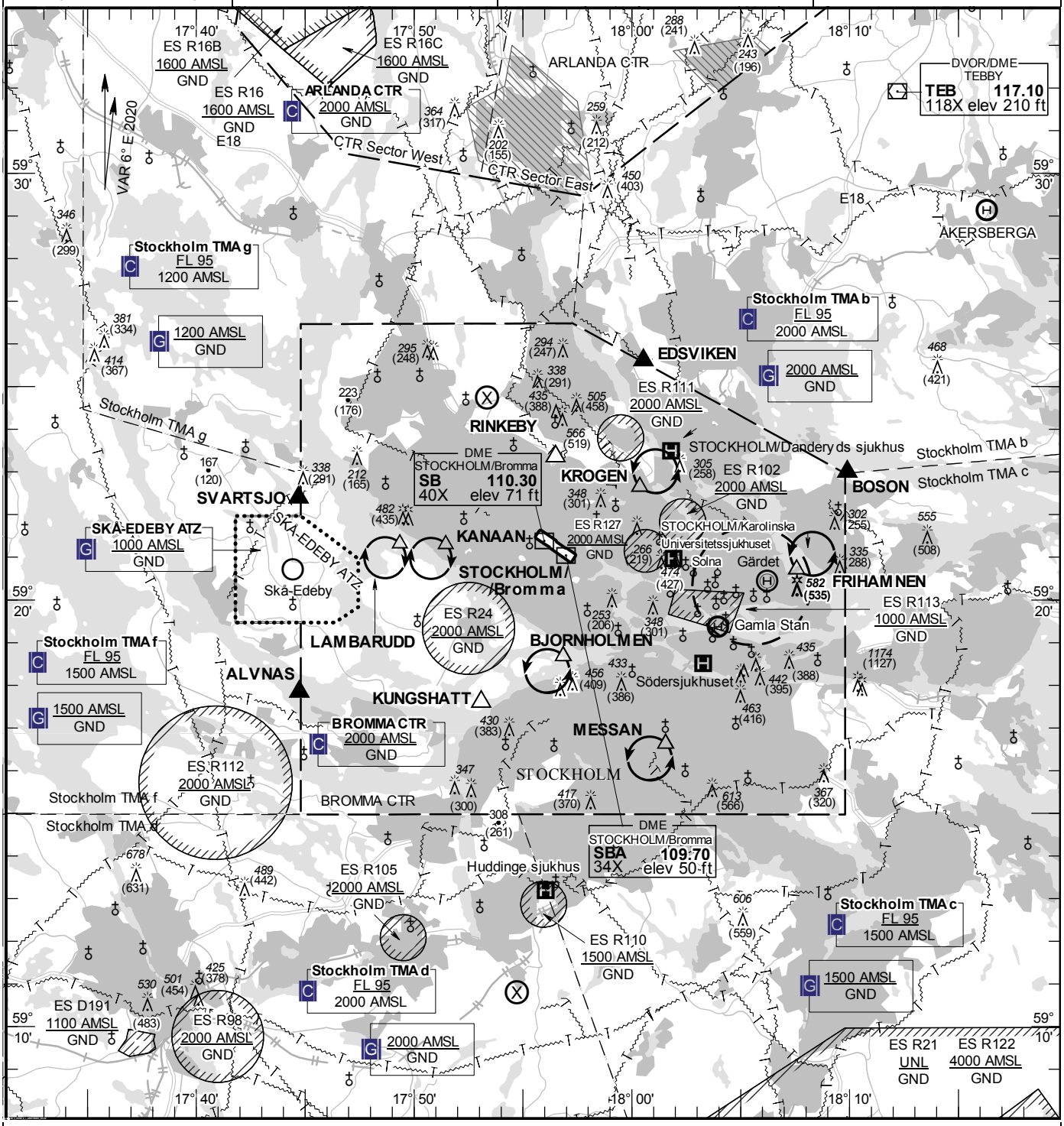
AD ELEV 47 FEET

ELEV and ALT in ft
HGT in ft above AD ELEV

TA 5000 AMSL

BROMMA TOWER	**118.105**
BROMMA GROUND	**121.605**
BROMMA ATIS	**122.455**

STOCKHOLM/Bromma SWEDEN



Communication failure
See page AD 2-ESSB-6-3/4

Remark
Obstacles below 197 ft AGL not shown in CTR.

RWY NR	THR ELEV	PAPI (MEHT)
12	46.5 ft	Left/3.50° (56 ft)
30	42.8 ft	Left/3.50° (38 ft)

Entry / exit point

EDSVIKEN	592536N 0180032E
BOSON	592259N 0180954E
ALVNAS	591750N 0174444E
SVARTSJO	592223N 0174442E

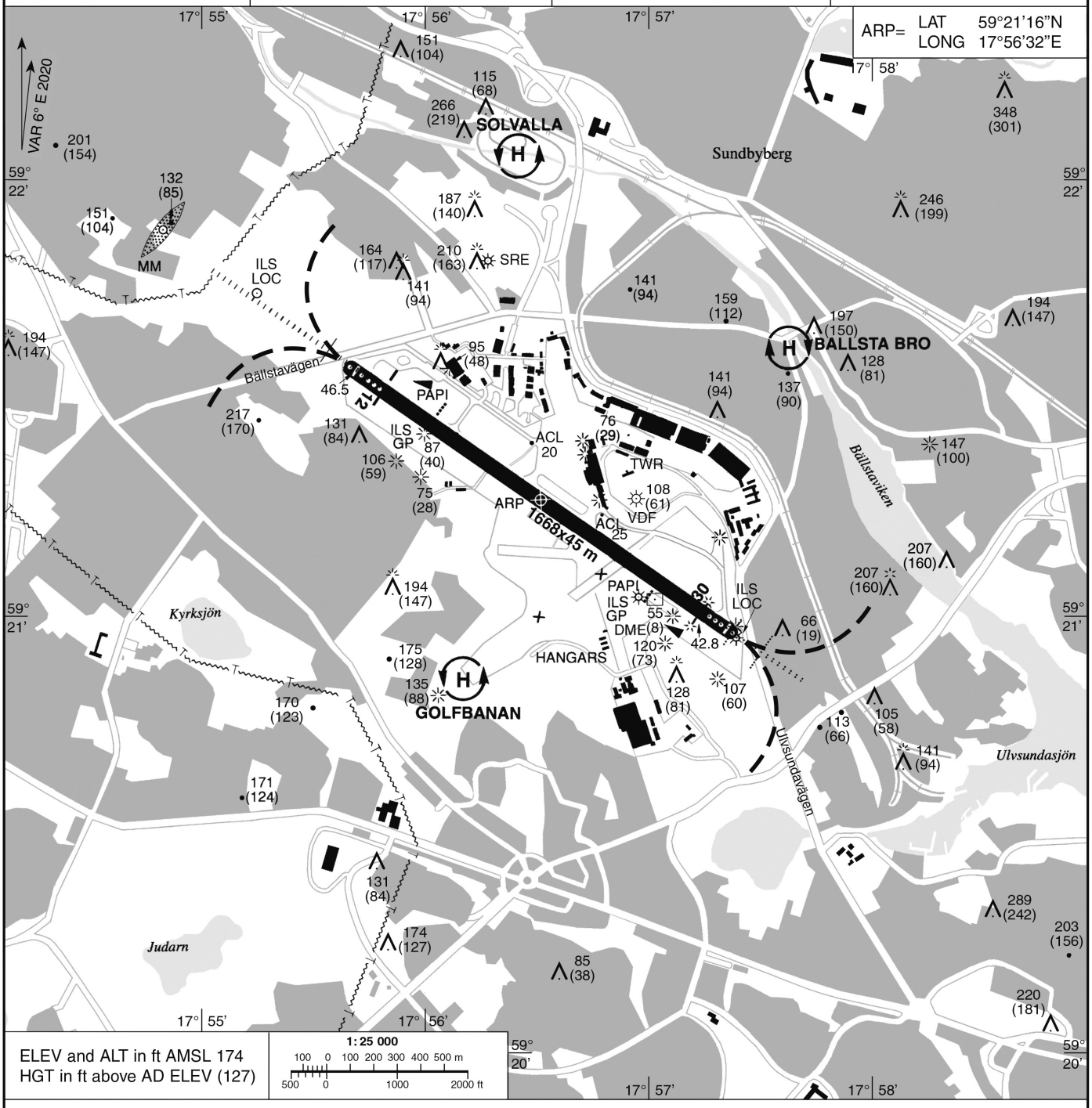
Legend
See GEN 2.3

Reporting point

RINKEBY	592320N 0175630E
KUNGSHATT	591735N 0175305E

Holding

KROGEN:	Hold over intersection between roads E18 and E4, north east of point 592237N 0180023E
FRIHAMNEN:	Hold over the harbour Frihamnen, north east of point 592041N 0180735E
MESSAN:	Hold over the exhibition hall, south west of point 591636N 0180133E
BJORNHOLMEN:	Hold over Björnholmen, south west of point 591839N 0175651E
KANAAN:	Hold over the swimming area Kanaanbadet, south west of point 592117N 0175127E
LAMBARUDD:	Hold over Lambarudd, south west of point 592118N 0174921E



ELEV and ALT in ft AMSL 174
HGT in ft above AD ELEV (127)

RUNWAY BEARINGS

12/30= GEO 125.01°/305.03°; MAG 119°/299°

THR COORDINATES

THR 12 = 59°21'31.21"N 017°55'46.72"E
THR 30 = 59°21'00.28"N 017°57'13.17"E

GROUND SERVICES

See AD 2.2–2.6

SURFACE AND STRENGTH

See AD 2.8 and 2.12

LEGEND

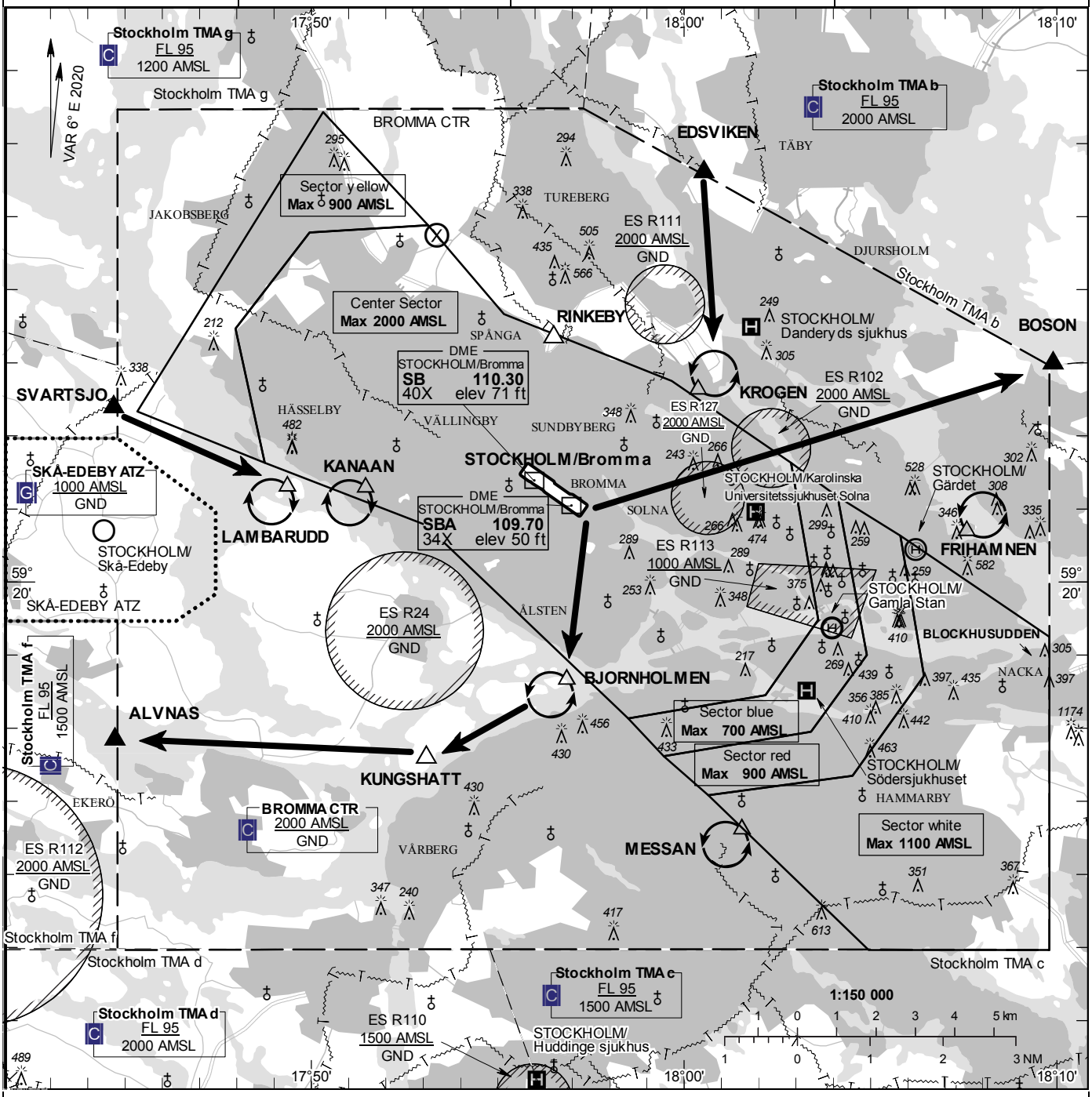
See GEN 2.3

H — Holding for helicopters

Helicopter inbound routes

Helicopter stand, see AD2-ESSB-2-3

SOLVALLA	59°22'03" N 017°56'24" E
BALLSTA BRO	59°21'36" N 017°57'37" E
GOLFBANAN	59°20'51" N 017°56'10" E



Communication failure

Aircraft outside CTR having received no clearance should land at an aerodrome outside CTR and obtain clearance by telephone for further flight to STOCKHOLM/Bromma.
If no suitable aerodrome is within reach;
1. SQUAWK 7600
2. Depending on probable active RWY;
For RWY 30 enter CTR via ALVNAS – Holding BJORNHOLMEN at or below 1500 ft AMSL to join traffic circuit on downwind leg.
For RWY 12 enter CTR via SVARTSJO – Holding KANAAN at or below 1500 ft AMSL to join **right** traffic circuit on downwind leg.
Transmit blind your intentions.
3. Flash LDG-lights and watch TWR for optical signals.

Remark

Obstacles below 197 fl AGL not shown in CTR

Entry / exit point

EDSVIKEN	592536N 0180032E
BOSON	592259N 0180954E
ALVNAS	591750N 0174444E
SVARTSJO	592223N 0174442E

Reporting point

RINKEBY	592320N 0175630E
KUNGSHATT	591735N 0175305E

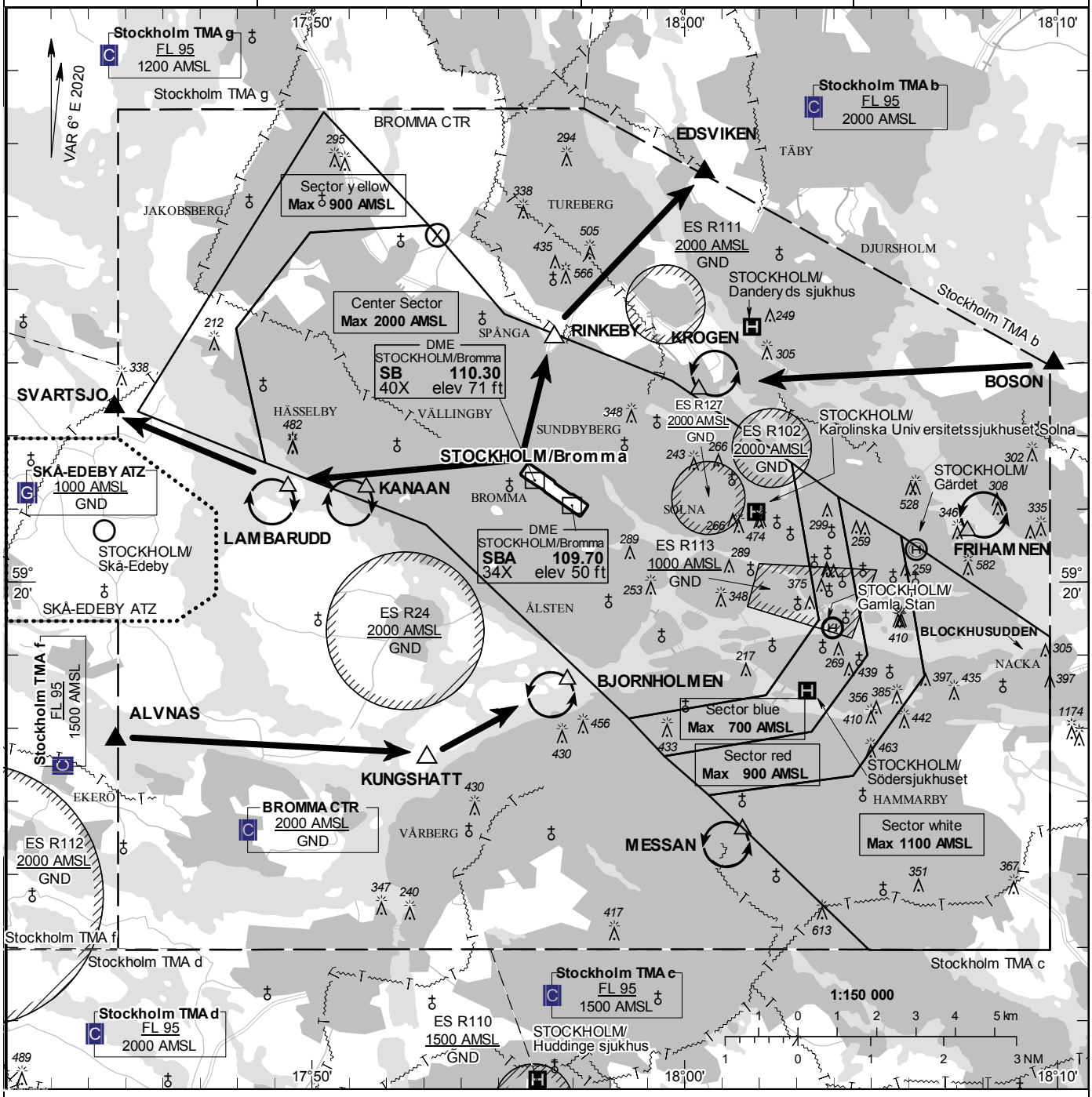
Legend

See GEN 2.3
Special procedures for balloon flight, see AD 2 ESSB 2.22.6.4

Holding

KROGEN:	Hold over intersection between roads E18 and E4, north east of point 592237N 0180023E
FRIHAMNEN:	Hold over the harbour Frihamnen, north east of point 592041N 0180735E
MESSAN:	Hold over the exhibition hall, south west of point 591636N 0180133E
BJORNHOLMEN:	Hold over Björnholmen, south west of point 591839N 0175651E
KANAAN:	Hold over the swimming area Kanaanbadet, south west of point 592117N 0175127E
LAMBARUDD:	Hold over Lambarudd, south west of point 592118N 0174921E

AD 2 ESSB 6-4 RWY 30	BROMMA TOWER 118.105 BROMMA GROUND 121.605 BROMMA ATIS 122.455	AD ELEV 47 FEET ELEV and ALT in ft HGT in ft above AD ELEV	AIP SWEDEN VFR-FLIGHT WITHIN BROMMA CTR (ref AD 2 ESSB 2.22)
STOCKHOLM/Bromma SWEDEN			



Communication failure
Aircraft outside CTR having received no clearance should land at an aerodrome outside CTR and obtain clearance by telephone for further flight to STOCKHOLM/Bromma.
If no suitable aerodrome is within reach;
1. SQUAWK 7600
2. Depending on probable active RWY;
For RWY 30 enter CTR via ALVNAS – Holding BJORNHOLMEN at or below 1500 ft AMSL to join traffic circuit on downwind leg.
For RWY 12 enter CTR via SVARTSJO – Holding KANAAN at or below 1500 ft AMSL to join **right** traffic circuit on downwind leg.
Transmit blind your intentions.
3. Flash LDG-lights and watch TWR for optical signals.

Remark
Obstacles below 197 fl AGL not shown in CTR

Entry / exit point

EDSVIKEN	592536N 0180032E
BOSON	592259N 0180954E
ALVNAS	591750N 0174444E
SVARTSJO	592223N 0174442E

Reporting point

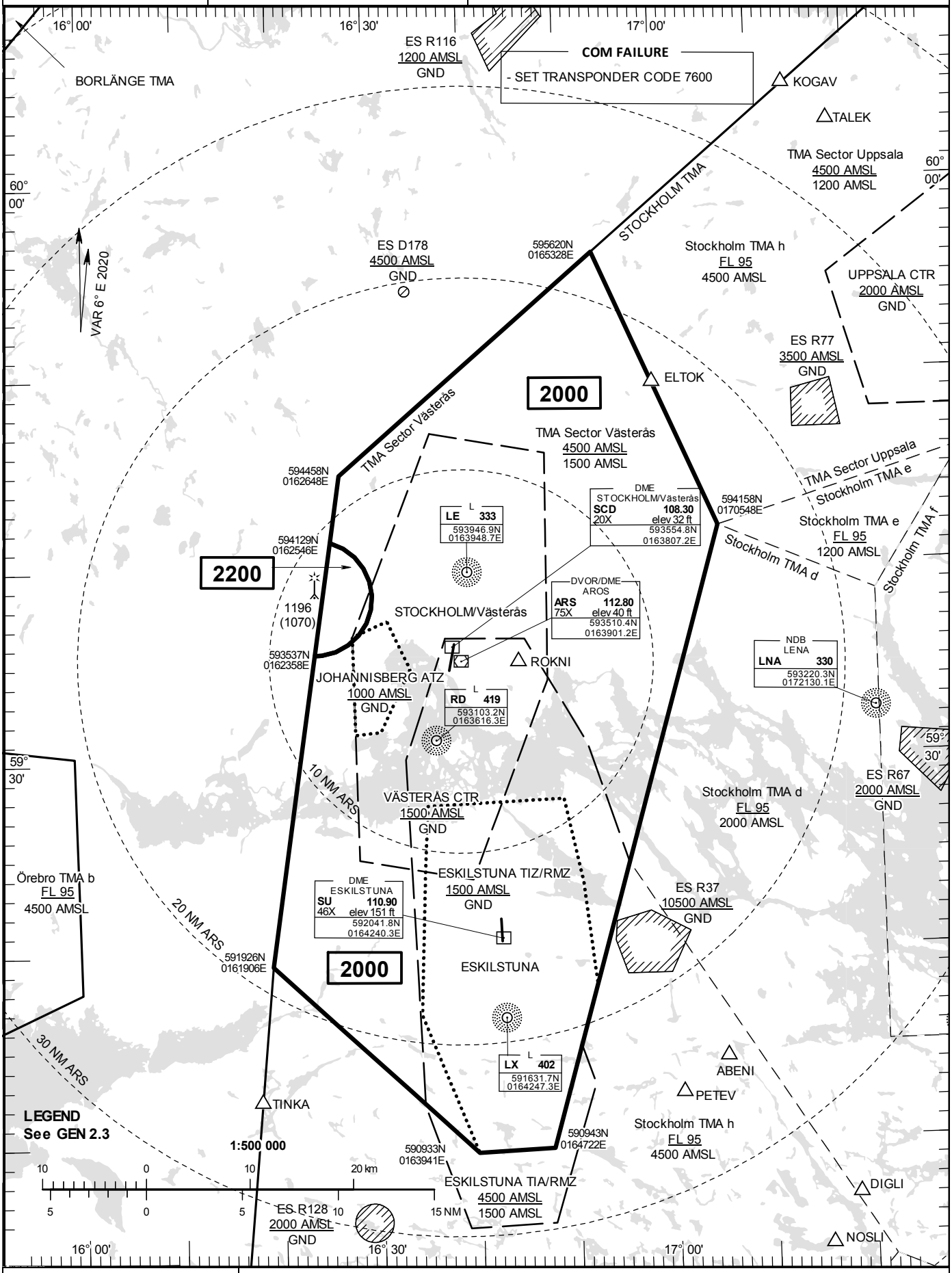
RINKEBY	592320N 0175630E
KUNGSHATT	591735N 0175305E

Legend
See GEN 2.3
Special procedures for balloon flight, see AD 2 ESSB 2.22.6.4

Holding

KROGEN:	Hold over intersection between roads E18 and E4, north east of point 592237N 0180023E
FRIHAMNEN:	Hold over the harbour Frihamnen, north east of point 592041N 0180735E
MESSAN:	Hold over the exhibition hall, south west of point 591636N 0180133E
BJORNHOLMEN:	Hold over Björnholmen, south west of point 591839N 0175651E
KANAAN:	Hold over the swimming area Kanaanbadet, south west of point 592117N 0175127E
LAMBARUDD:	Hold over Lambarudd, south west of point 592118N 0174921E

AD ELEV 21 FEET **HGT and ALT in ft** **TA 5000 AMSL**	**VÄSTERÅS TOWER 130.605** **VÄSTERÅS APPROACH 125.955** **VÄSTERÅS ATIS 127.555**	THIS CHART MAY ONLY BE USED FOR CROSS-CHECKING OF ASSIGNED ALTITUDES WHILST IN RECEIPT OF RADAR SERVICE LEVELS ASSIGNED BY ATC INCLUDE A CORRECTION FOR LOW TEMPERATURE EFFECT



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ESNN 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	Apron surface and strength	Apron M ASPH PCN 50 F/B/X/T Apron N ASPH PCN 50 F/B/X/T Apron S ASPH PCN 10 F/B/X/T
2.	Taxiway width, surface and strength	TWY A 23 m ASPH PCN 29 F/B/X/T TWY B 18 m ASPH PCN 50 F/B/X/T TWY C 15 m ASPH PCN 50 F/B/X/T TWY D 23 m ASPH PCN 50 F/B/X/T
3.	ACL, location and elevation	See ESNN 2-1
4.	VOR checkpoints	See ESNN 2-1
5.	INS checkpoints	See ESNN 2-1
6.	Remarks	-

ESNN 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, 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. Edge lights, RGL. D: CL, HLDG day marked. Edge lights, RGL.
3.	Stop bars	-
4.	Remarks	RWY 16/34: RWY extension guide lines based on MD82

ESNN 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
ESNN1	Navaid	623111.5N 0172655.7E	17 / -	-	-
ESNN2	Vegetation	623103.2N 0172659.5E	24 / -	-	-
ESNN3	Pole	623100.3N 0172701.3E	29 / -	-	-
ESNN4	Pole	623059.9N 0172700.5E	30 / -	-	-
ESNN5	Sign	623059.3N 0172713.8E	35 / -	-	-
ESNN6	Vegetation	623054.6N 0172722.4E	43 / -	-	-
ESNN7	Vegetation	623054.0N 0172724.6E	46 / -	-	-
ESNN8	Vegetation	623051.9N 0172728.5E	52 / -	-	-
ESNN9	Vegetation	623050.7N 0172731.1E	63 / -	-	-
ESNN10	Vegetation	623048.6N 0172732.3E	68 / -	-	-
ESNN11	Vegetation	623047.8N 0172734.6E	70 / -	-	-
ESNN12	Vegetation	623047.4N 0172733.3E	70 / -	-	-
ESNN13	Vegetation	623037.5N 0172715.1E	79 / -	-	-
ESNN14	Vegetation	623036.7N 0172715.3E	82 / -	-	-
ESNN15	Vegetation	623028.0N 0172716.2E	93 / -	-	-
ESNN16	Navaid	623208.0N 0172623.0E	24 / -	-	-
ESNN17	Vegetation	623223.5N 0172554.2E	51 / -	-	-
ESNN18	Vegetation	623232.1N 0172549.6E	74 / -	-	-
ESNN19	Vegetation	623233.3N 0172545.7E	80 / -	-	-
ESNN20	Vegetation	623235.4N 0172542.5E	85 / -	-	-
ESNN21	Vegetation	623237.4N 0172547.6E	91 / -	-	-
ESNN22	Vegetation	623247.4N 0172536.2E	110 / -	-	-
ESNN23	Vegetation	623303.5N 0172554.6E	131 / -	-	-
ESNN24	Transmission line	623315.4N 0172537.0E	152 / -	-	-
ESNN25	Vegetation	623315.4N 0172531.4E	172 / -	-	-
ESNN26	Vegetation	623316.5N 0172535.1E	179 / -	-	-
ESNN27	Vegetation	623340.2N 0172538.4E	315 / -	-	-
ESNN28	Vegetation	623350.3N 0172532.0E	337 / -	-	-
ESNN29	Vegetation	623709.3N 0172238.6E	708 / -	-	-
ESNN30	Vegetation	623711.3N 0172234.3E	713 / -	-	-

ESNN 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT Type, LEN INTST	THR LGT Colour WBAR	VASIS (MEHT)	TDZ LGT LEN	RWY Centre Line LGT LEN, Spacing Colour INTST	RWY Edge LGT LEN, Spacing Colour INTST	RWY End LGT Colour WBAR	SWY LGT LEN, Colour
1	2	3	4	5	6	7	8	9
16	Barrette CL SALS 180 m LIL/LIH	Green	PAPI Left/3.25° (60.0 ft)	-	-	1954/60 m White Caution zone 600 m yellow LIL/LIH	Red	-
34	Calvert CAT I 900 m LIL/LIH	Green	PAPI Left/3.00° (57.4 ft)	-	-	1949/60 m White Caution zone 600 m yellow LIL/LIH	Red	-

10 Remarks:		
	RWY 16:	LED lights on APCH, RTHL, REDL, RENL and TRID. TRID FLG white. LIH.
	RWY 34:	LED lights on RTHL, REDL and RENL.

ESNN 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1.	ABN/IBN location, characteristics and hours of operation	-
2.	LDI location and LGT Anemometer location and LGT	See ESNN 2-1 See ESNN 2-1
3.	TWY edge and centre line lighting	Edge: TWY A, B, C, D CL: - LED lights on all TWY edge lights LED lights on all RGL
4.	Secondary power supply/switch-over time	Available/1 sec
5.	Remarks	-

ESNN 2.16 HELICOPTER LANDING AREA

RWY 16/34 to be used

ESNN 2.17 ATS AIRSPACE

1.	Designation and lateral limits	SUNDSVALL CTR	624157N 0172537E - 623327N 0173747E - 622009N 0174112E - 621802N 0172655E - 623032N 0171448E - 624007N 0171347E - 624157N 0172537E
2.	Vertical limits	SUNDSVALL CTR	2500 ft AMSL GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	SUNDSVALL TOWER Swedish/English	
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	CTR established during hours of TWR.	

ESNN 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	SUNDSVALL TOWER	129.555	HO	Primary channel
		121.500	HO	-
		118.105	HX	By directive from TWR
ATIS	SUNDSVALL ATIS	127.405	HO	-

ESNN 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
LOC 16 ILS CAT I (7° E 2020)	NNN	108.70 MHz	HO	623100.8N 0172709.7E		380 m beyond THR 34 LOC Class I/E/2
GP		330.50 MHz	HO	623200.4N 0172632.1E		Angle 3.25° RDH 50.0 ft 266 m past THR 16 left side. Horizontal coverage E RWY CL limited to 4° GP Class I/C/2
LOC 34 ILS CAT I (7° E 2020)	SNN	110.30 MHz	HO	623237.4N 0172554.3E		995 m beyond THR 16 LOC Class I/E/2
GP		335.00 MHz	HO	623123.6N 0172700.8E		Angle 3.0° RDH 50.9 ft 328 m past THR 34 right side GP Class I/C/2
DVOR/DME (7° E 2020)	SUN	113.10 MHz	H24	623142.4N 0172655.4E	46 ft	DME channel 78X DVOR and DME on R-022 is approved to use from 22 NM and restricted due to low signal level between 30 NM and 22 NM.
DME	NNN	108.70 MHz	HO	623200.4N 0172632.5E	45 ft	Low signal in sector 10°-35° east of the extended CL below 5000 ft, 17 NM and beyond. 265 m past THR 16 left side. DME channel 24X
DME	SNN	110.30 MHz	HO	623123.6N 0172701.2E	39 ft	DME channel 40X

ESNN 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. Tillstånd för motorstart skall alltid inhämtas från TWR.

2. När flygsäkerhet, trafiksituation och väderförhållanden så medger ska landningar som ankommer söderifrån ske på bana 34 och starter mot destinationer söderut ske på bana 16.

3. Flygplan på uppställningsplats 2-6 eller 11-16 får inte utföra backning med egna motorer som ett standardförfarande. Detta är endast tillåtet om flygplatsen inte kan utföra push-back med bogserstång eller TBL-traktor.

LOCAL TRAFFIC REGULATIONS

1. Start-up clearance shall be obtained from TWR at all times

2. When flight safety, traffic situation and weather conditions permit, landings arriving from the south must be performed on RWY 34 and take-offs for destinations to the south must be performed on RWY 16.

3. Aircraft parked on stands 2-6 or 11-16 shall not perform power push-back as a standard procedure. This is only permitted if the aerodrome is unable to perform push-back by towing or TBL tractor.

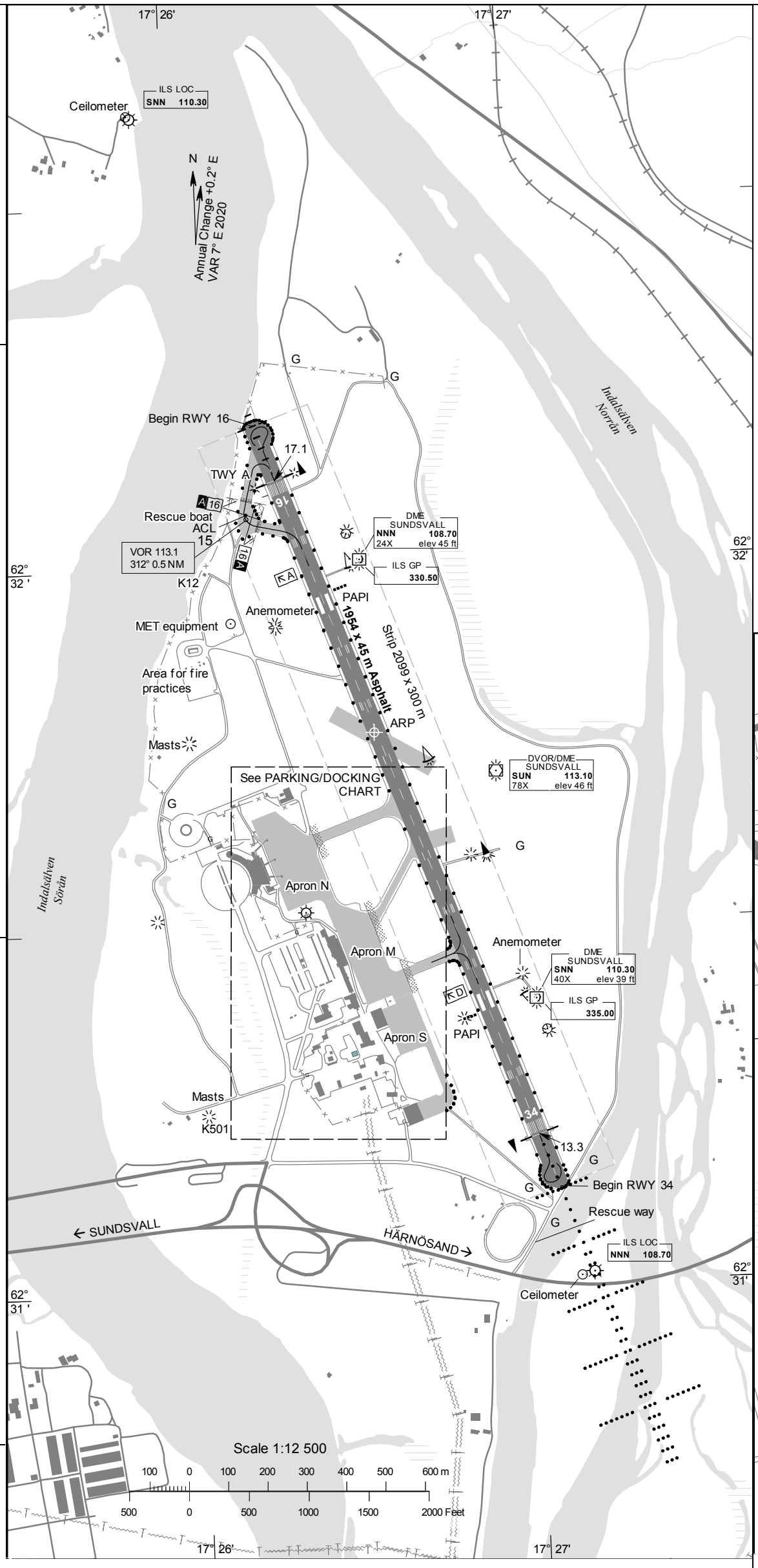
ARP 623146N 0172634E

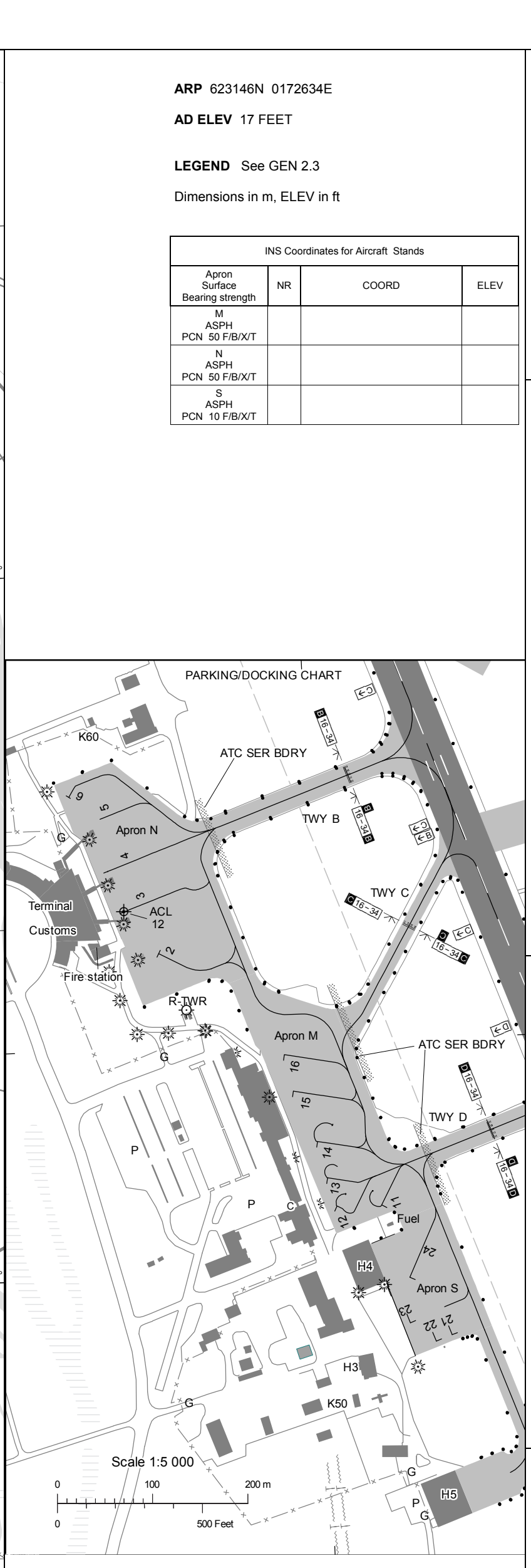
AD ELEV 17 FEET

LEGEND See GEN 2.3

Dimensions in m, ELEV in ft

INS Coordinates for Aircraft Stands			
Apron Surface Bearing strength	NR	COORD	ELEV
M ASPH PCN 50 F/B/X/T			
N ASPH PCN 50 F/B/X/T			
S ASPH PCN 10 F/B/X/T			





RWY NR	TRUE & MAG BRG	THR PSN Geoid undulation	Bearing strength	THR ELEV and highest ELEV of TDZ of precision APCH RWY	Declared distances				Approach and runway lighting				
					TORA	TODA	ASDA	LDA	APCH	THR TRID TDZ	VASIS (MEHT)	Edge	End
16	160.16° GEO 153° MAG	623207.12N 0172617.86E GUND 84.9 ft	PCN 50 F/B/X/T	THR 17.1 ft TDZ 17.1 ft	1954	1954	1954	1804	Barrette CL SALS 180 m LIL/LIH	THR Green TRID LIH	PAPI Left/3.25° (60.0 ft)	1954/60 m White Caution zone 600 m yellow LIL/LIH	Red
34	340.15° GEO 333° MAG	623112.31N 0172700.73E GUND 84.7 ft	PCN 50 F/B/X/T	THR 13.3 ft TDZ 13.3 ft	1949	1949	1949	1804	Calvert Cat I 900 m LIL/LIH	THR Green	PAPI Left/3.00° (57.4 ft)	1949/60 m White Caution zone 600 m yellow LIL/LIH	Red

TWY NR	WIDTH	Surface Bearing Strength	Day marking	Taxiway lighting	
			Centerline Holding	Edge Centerline	RGL Stopbar
A	23 m	ASPH PCN 29 F/B/X/T	CL HLDG	EDGE	RGL
B	18 m	ASPH PCN 50 F/B/X/T	CL HLDG	EDGE	RGL
C	15 m	ASPH PCN 50 F/B/X/T	CL HLDG	EDGE	RGL
D	23 m	ASPH PCN 50 F/B/X/T	CL HLDG	EDGE	RGL

REMARK: Begin RWY 16, 150 m in front of THR. Begin RWY 34, 144 m in front of THR.
Apron S, A-aircraft only. Apron M, pushback required from stand 15 for aircraft with dimensions equivalent to B737 and A320.

VISUAL APPROACH CHART - ICAO

1:250000

1 0 1 2 3 4 5 km

1 0 1 2 3 NM

AD ELEV 17 FEET

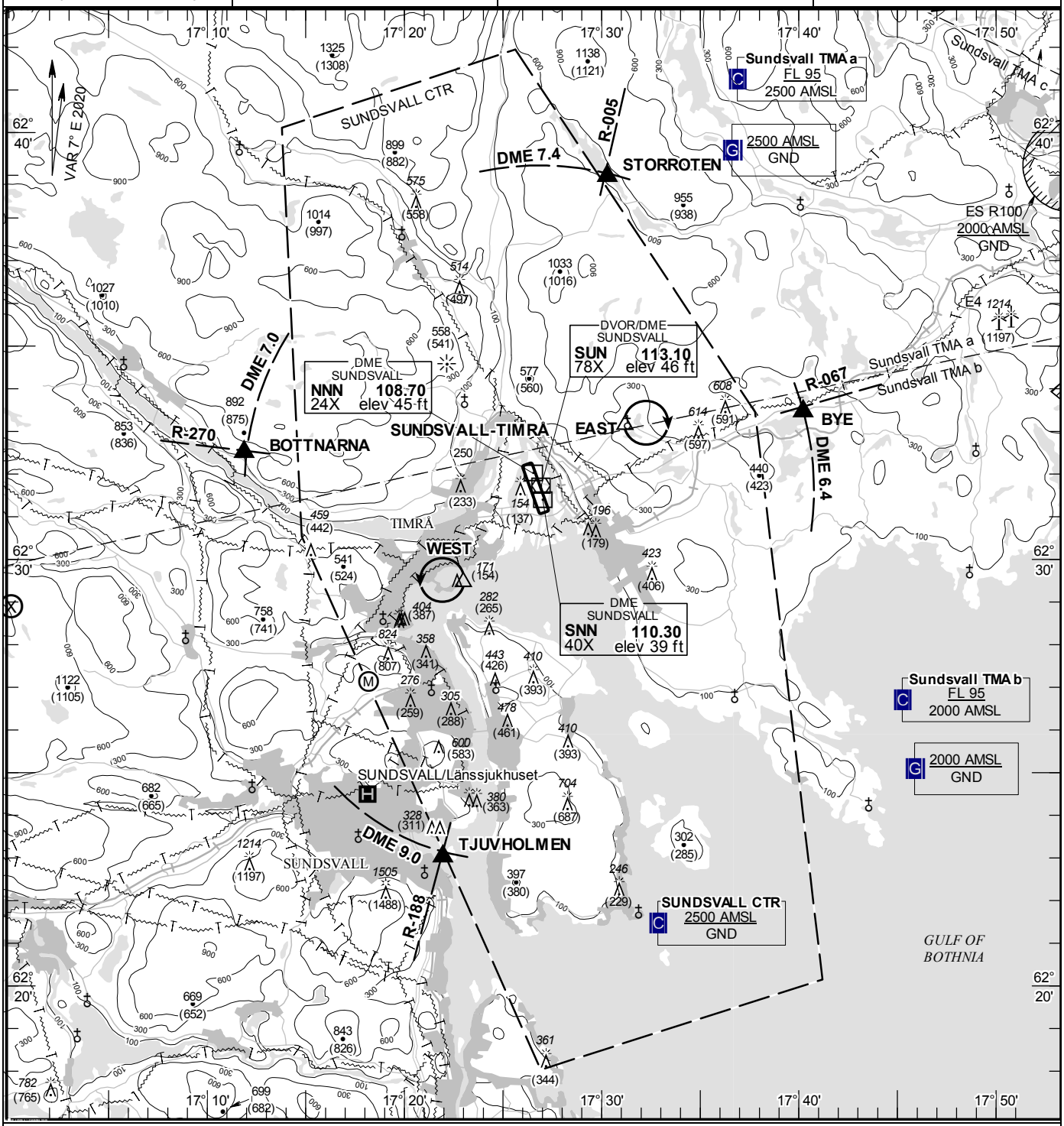
ELEV and ALT in ft
HGT in ft above AD ELEV

TA 5000 AMSL

SUNDSVALL TOWER 129.555
118.105

SUNDSVALL ATIS 127.405

SUNDSVALL-TIMRÅ SWEDEN



Communication failure

1 SQUAWK 7600
2 Contact TWR on TEL +46 (0)60 64 62 08 for clearance.
3 If telephone contact cannot be established, enter CTR via BYE to holding EAST.
4 Hold in EAST 5 min and flash with landing lights and wait for optical signals from R-TWR.
5 If optical signals cannot be perceived, start APCH via overhead to RWY of choice.
6 Confirm RWY free.
7 Land and taxi via TWY D to apron S.

RWY NR	THR ELEV	PAPI (MEHT)
16	17.1 ft	Left/3.25° (60 ft)
34	13.3 ft	Left/3.00° (57 ft)

Legend

See GEN 2.3

Remark

Model flying area over Öråker

Entry / exit point

STORROTEN	623858N 0173017E
BYE	623327N 0174013E
TJUVHOLMEN	622301N 0172157E
BOTTNARNA	623230N 0171152E

Holding

EAST: Hold at Hässjö church, east of point 623308N 0173112E

WEST: Hold west of Vivstavarv, west of point 622927N 0172258E

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VISUAL APPROACH CHART - ICAO

1:250000

1 0 1 2 3 4 5 km

1 0 1 2 3 NM

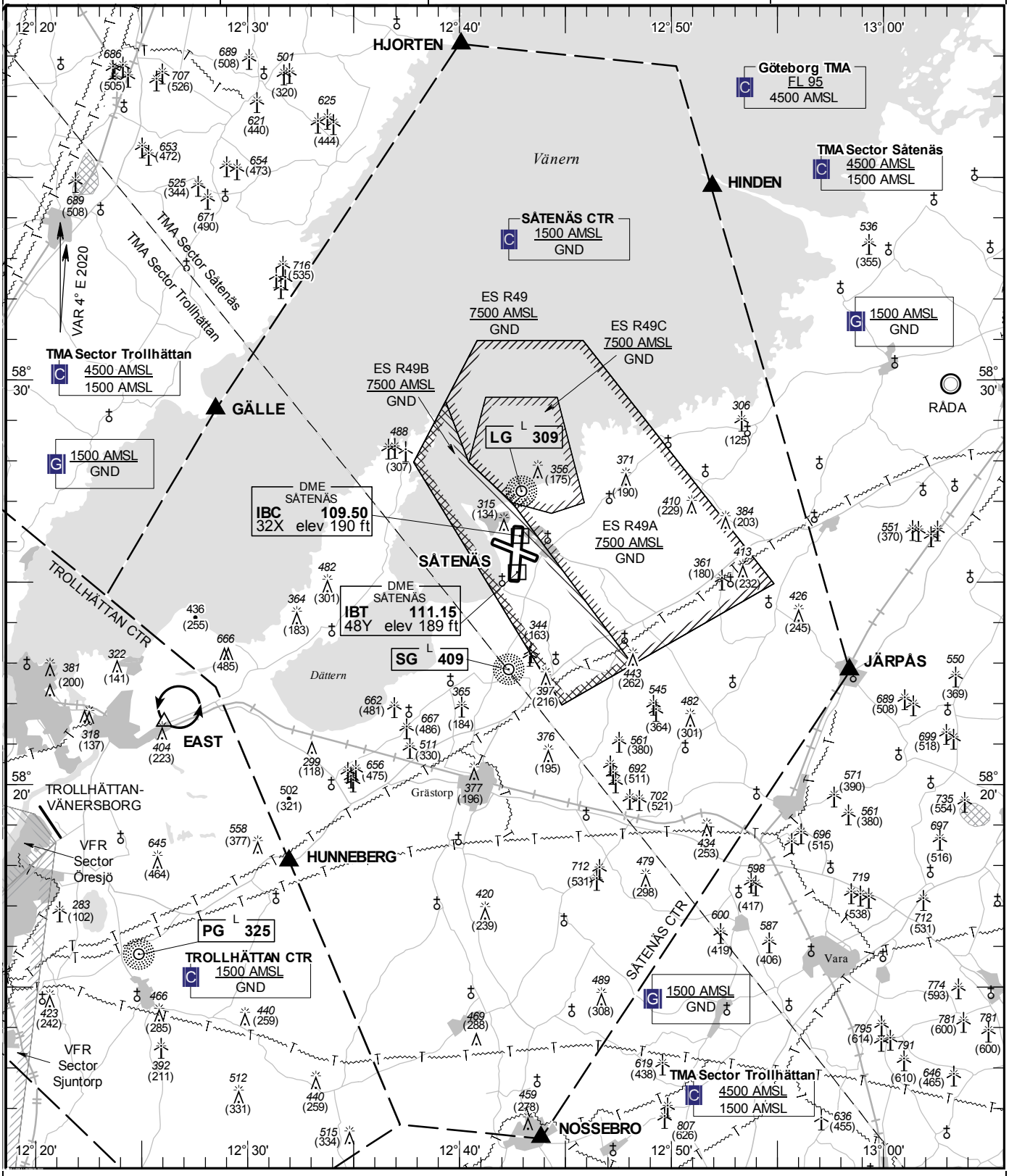
AD ELEV 181 FEET

ELEV and ALT in ft
HGT in ft above AD ELEV

TA 5000 AMSL

SÅTENÄS TOWER	**128.200**
SÅTENÄS GROUND	**121.850**
SÅTENÄS APPROACH	**134.550**

SÅTENÄS SWEDEN



Communication failure
NIL

Remark
NIL

RWY NR	THR ELEV	PAPI (MEHT)
01	169.4 ft	Left/3.00°
19	175.3 ft	Left/3.00°
11	166 ft	NIL
29	181 ft	NIL

Legend
See GEN 2.3

Entry / exit point

HJORTEN	583817N 0124004E
HINDEN	583446N 0125156E
JÄRPÅS	582249N 0125824E
NOSSEBRO	581116N 0124351E
GÄLLE	582916N 0122829E

Holding
NIL

ESKS 2.17 ATS AIRSPACE

1.	Designation and lateral limits	SÄLEN CTR	611936N 0124038E - 611631N 0125022E - 611315N 0130037E - 610158N 0130442E - 610014N 0125916E - 610547N 0124148E - 610630N 0123929E - 611751N 0123509E - 611936N 0124038E
		Sector a	611631N 0125022E - 611315N 0130037E - 610158N 0130442E - 610014N 0125916E - 610547N 0124148E Swedish/Norwegian border northward to - 611631N 0125022E
		Sector b	611936N 0124038E - 611631N 0125022E Swedish/Norwegian border southward to - 610547N 0124148E - 610630N 0123929E - 611751N 0123509E - 611936N 0124038E
2.	Vertical limits	SÄLEN CTR	4200 ft AMSL GND
		Sector a	4200 ft AMSL GND
		Sector b	4200 ft AMSL GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	SÄLEN TOWER Swedish/English	
5.	Transition altitude	6000 ft AMSL	
6.	Remarks	CTR established during hours of TWR. Sector b classified as RMZ outside hours of TWR. -	

ESKS 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	SÄLEN TOWER	124.460	HO	Primary channel
		121.500	HO	-
		118.440	HX	By directive from TWR

ESKS 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
LOC 15 ILS CAT III (5° E 2020)	SAE	109.55 MHz	HO	610909.0N 0125102.8E		386 m past THR 33 LOC Class III/E/4 LOC not approved for use above a vertical angle of 4.7°, originating from position of localizer.
GP		332.45 MHz	HO	611019.5N 0124936.2E		Angle 3.0° RDH 52.2 ft 352 m past THR 15 Left side GP Class III/T/2
LOC 33 ILS CAT III (5° E 2020)	SAL	111.35 MHz	HO	611034.8N 0124905.6E		295 m past THR 15 LOC Class III/E/4
GP		332.15 MHz	HO	610929.0N 0125045.2E		Angle 3.0° RDH 50.5 ft 275 m past THR 33 Right side GP Class III/T/2
DME	SAE	109.55 MHz	HO	611019.6N 0124936.5E	1669 ft	DME channel 32Y
DME	SAL	111.35 MHz	HO	610929.1N 0125045.4E	1674 ft	DME channel 50Y

ESKS 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. Dagligen mellan 2100-0500 (2000-0400) får flygplatsen inte trafikeras med flygplan certifierade enligt ICAO Annex 16, Volume I, Part II, Chapter 2.

2. PPR för all trafik. PPR-formulär på flygplatsens hemsida.

3. För luftfartyg med vingspann över 18 m krävs ledsagning in på GA-plattan.

LOCAL TRAFFIC REGULATIONS

1. Daily between 2100-0500 (2000-0400) the aerodrome must not be used by aircraft certificated in accordance with ICAO Annex 16, Volume I, Part II, Chapter 2.

2. PPR for all traffic. PPR forms on AD website.

3. Marshalling mandatory for aircraft with wingspan exceeding 18 m entering apron GA.

ESKS 2.21 MINSKNING AV BULLERSTÖRNING

NIL

NOISE ABATEMENT PROCEDURES

NIL

ESKS 2.22 FLYGPROCEDURER

1. Ankommande IFR-trafik inom SälenTMA/CTR

Flygvägar för ankommande trafik är upprättade enligt ESKS 4-9 till ESKS 4-11.

2. Avgående IFR-trafik inom Sälen TMA/CTR

Flygvägar för avgående trafik är upprättade enligt ESKS 4-5 till ESKS 4-8.

FLIGHT PROCEDURES

1. Inbound IFR traffic within Sälen TMA/CTR

Arrival routes are established in accordance with ESKS 4-9 through ESKS 4-11.

2. Outbound IFR traffic within Sälen TMA/CTR

Departure routes are established in accordance with ESKS 4-5 through ESKS 4-8.

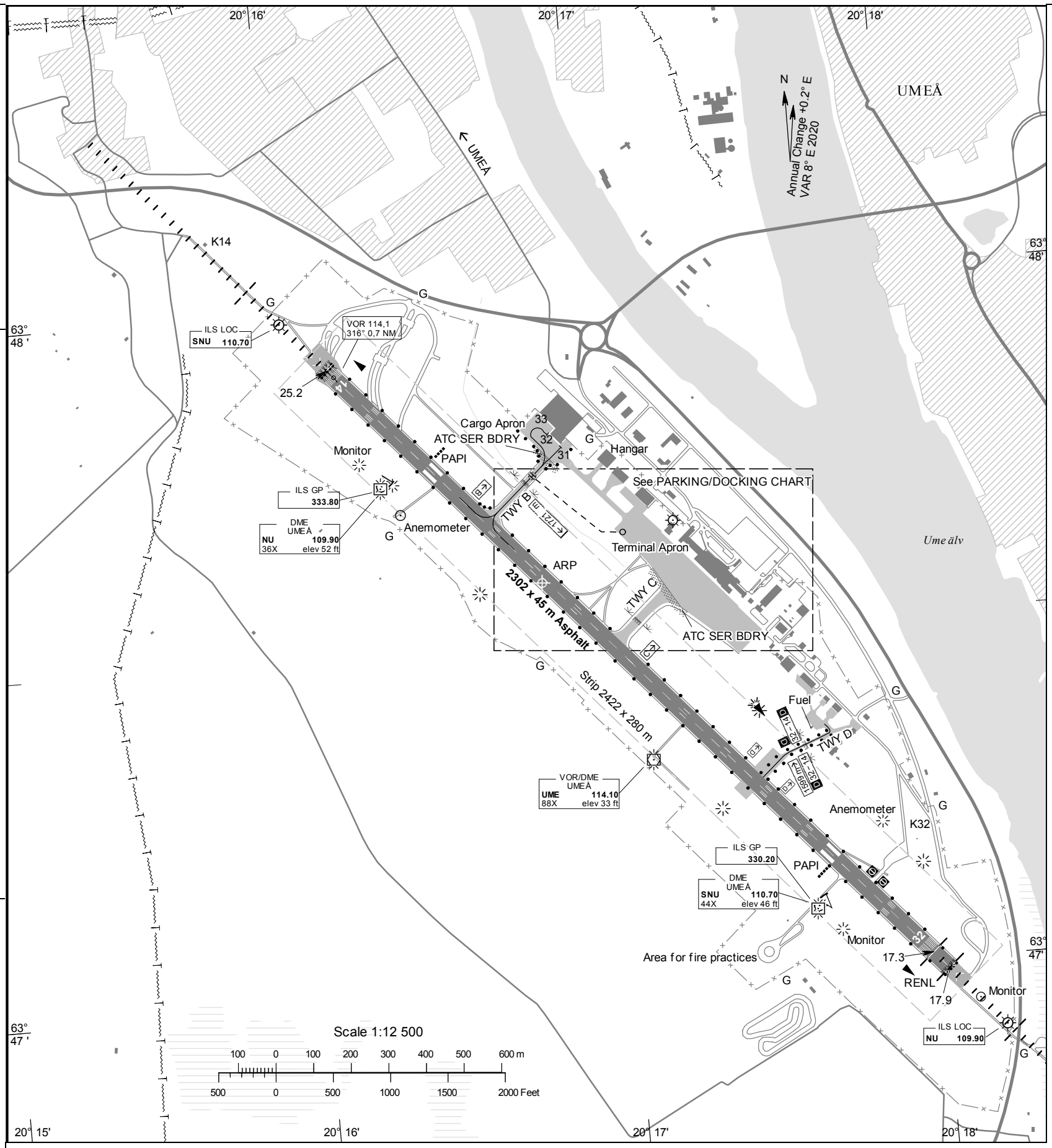
ARP 634735N 0201648E

AD ELEV 25 FEET

LEGEND See GEN 2.3

Dimensions in m, ELEV in ft

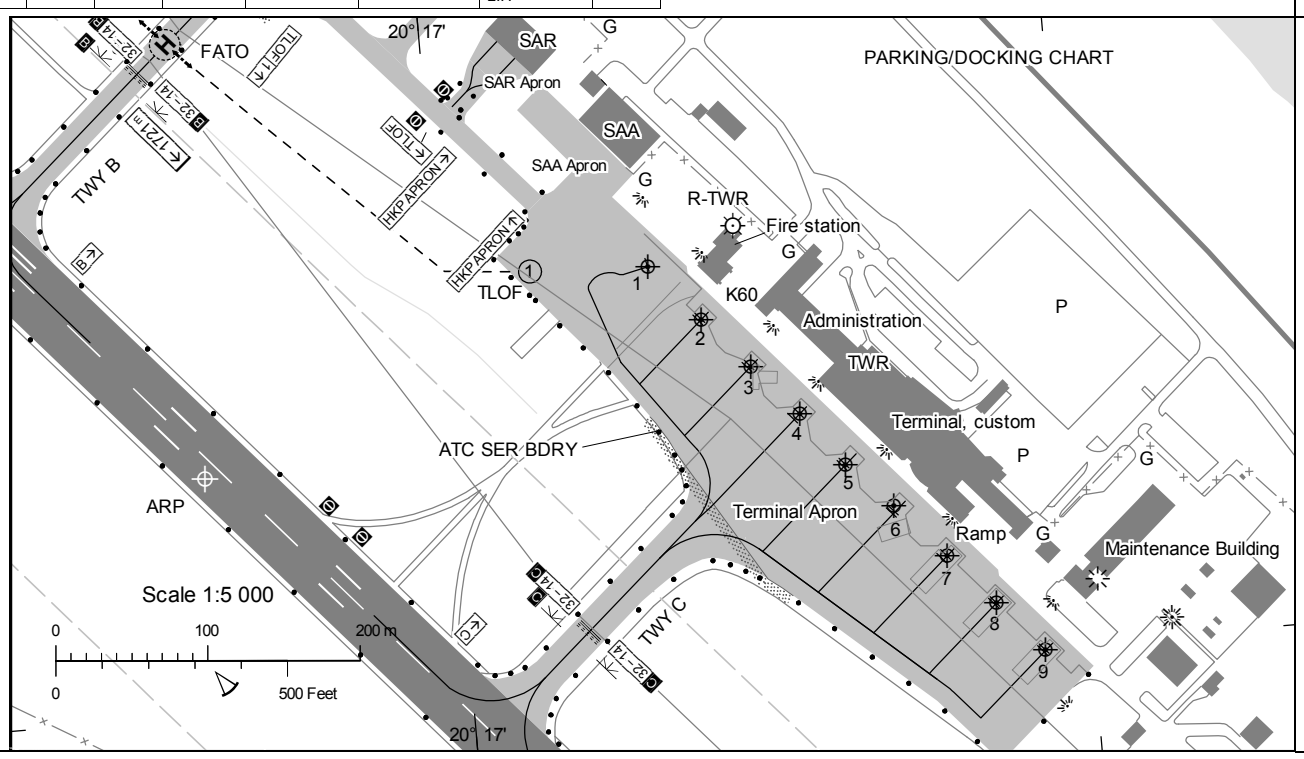
REMARKS
Threshold RWY 32 permanently displaced 60 m for landing
TWY D available to light aircraft only

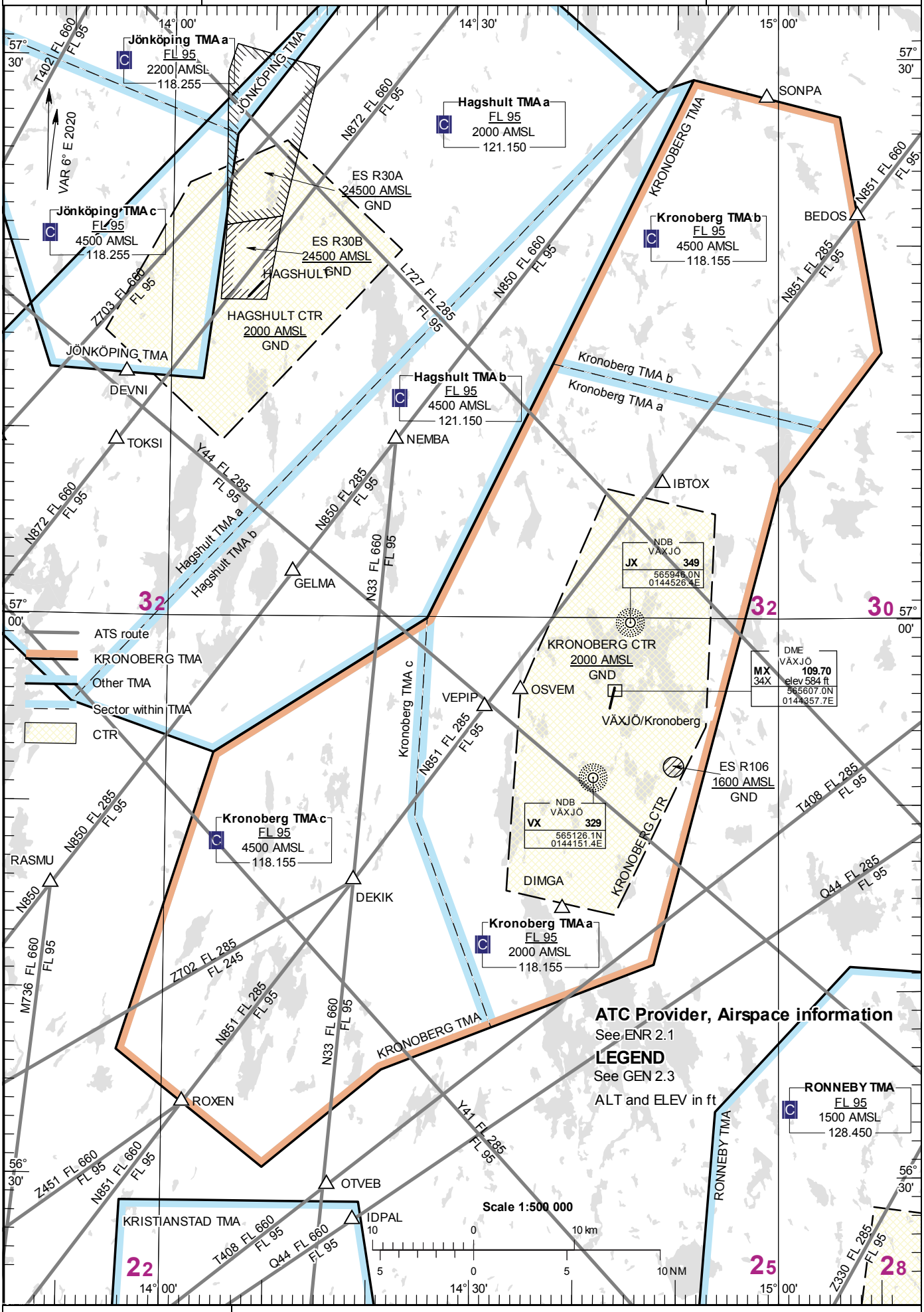


RWY NR	TRUE & MAG BRG	THR PSN Geoid undulation END PSN	Bearing strength	THR ELEV and highest ELEV of TDZ of precision APCH RWY	Declared distances				Approach and runway lighting				
					TORA	TODA	ASDA	LDA	APCH	THR TRID TDZ	VASIS (MEHT)	Edge	End
14	138.45° GEO 130° MAG	634754.75N 0201609.49E GUND 72.3 ft END RWY: 634659.10N 0201800.96E	PCN 70 F/B/X/T	THR 25.2 ft TDZ 25 ft	2302	2302	2302	2302	Barrette CL Cat I 870 m LIH	THR Green	PAPI Left/3.00° (61.4 ft)	2302/50 m White Caution zone 600 m yellow LIH	Red WBAR
32	318.48° GEO 310° MAG	634700.55N 0201758.05E GUND 71.8 ft	PCN 70 F/B/X/T	THR 17.3 ft TDZ 17 ft	2302	2302	2302	2242	Barrette CL Cat I 420 m LIH	THR Green WBAR	PAPI Left/3.00° (55.4 ft)	60/50 m Red 2242/50 m White Caution zone 600 m yellow LIH	Red

TWY NR	Width	Surface Bearing strength	Day marking	Taxiway lighting	
			Centerline Holding	Edge Centerline	RGL Stopbar
B	18 m	ASPH PCN 22 F/B/X/T	CL HLDG	EDGE	RGL
C	23 m	ASPH PCN 45 F/B/X/T	CL HLDG	EDGE	RGL
D	8 m	ASPH PCN 11 F/B/X/T	CL HLDG	EDGE	RGL

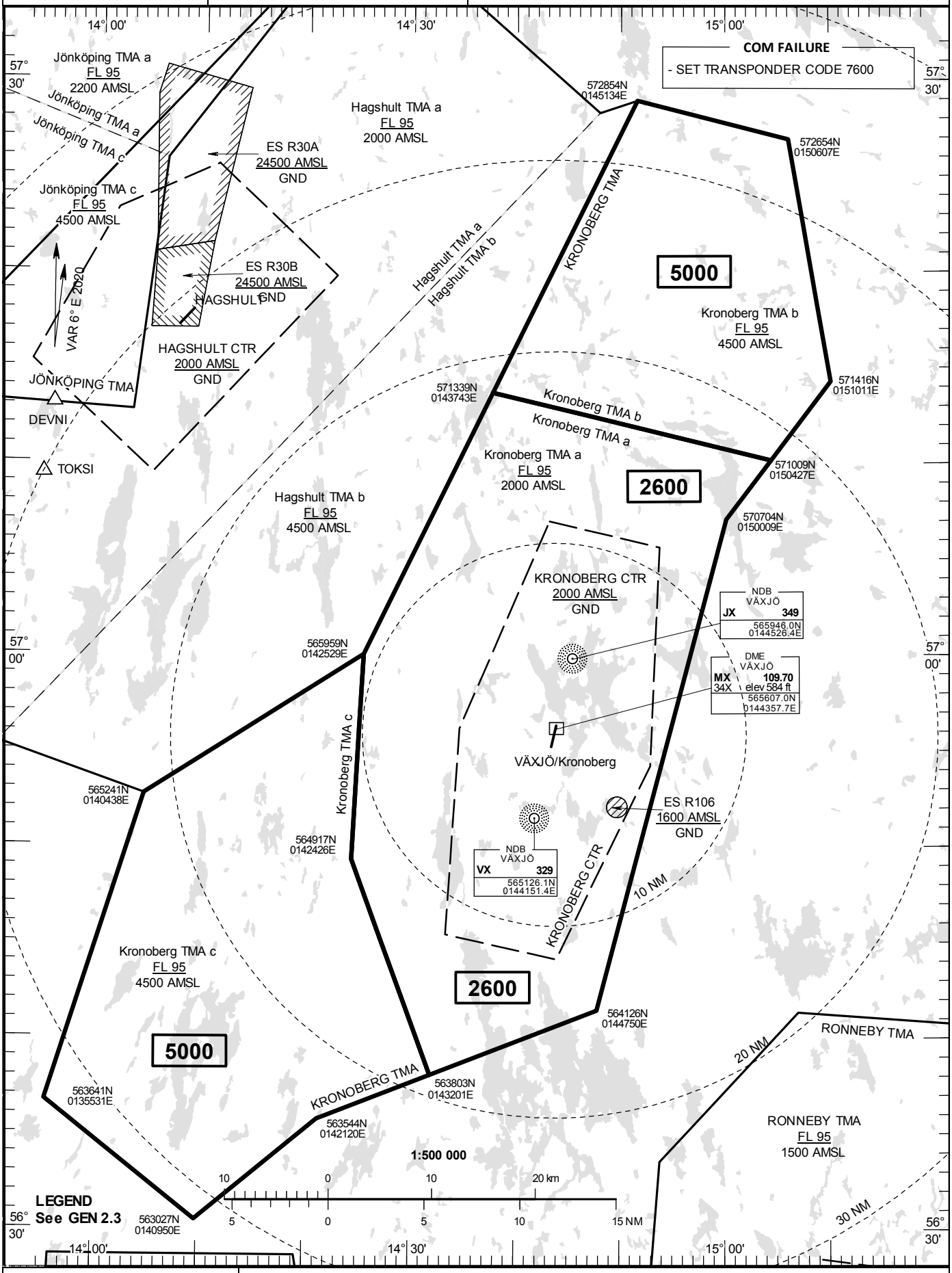
INS Coordinates for Aircraft Stands			
APRON Surface Bearing strength	NR	COORD	ELEV
Terminal Apron ASPH PCN 45 F/B/X/T (Apron surrounding stand 1 PCN 11 F/B/XT)	1	634738.73N 0201710.09E	19
	2	634737.52N 0201712.46E	19
	3	634736.43N 0201714.64E	19
	4	634735.34N 0201716.82E	18
	5	634734.18N 0201718.81E	18
	6	634733.24N 0201720.96E	17
	7	634732.07N 0201723.33E	16
	8	634730.99N 0201725.51E	16
	9	634729.90N 0201727.69E	16
Cargo Apron ASPH PCN 17 F/B/X/T			



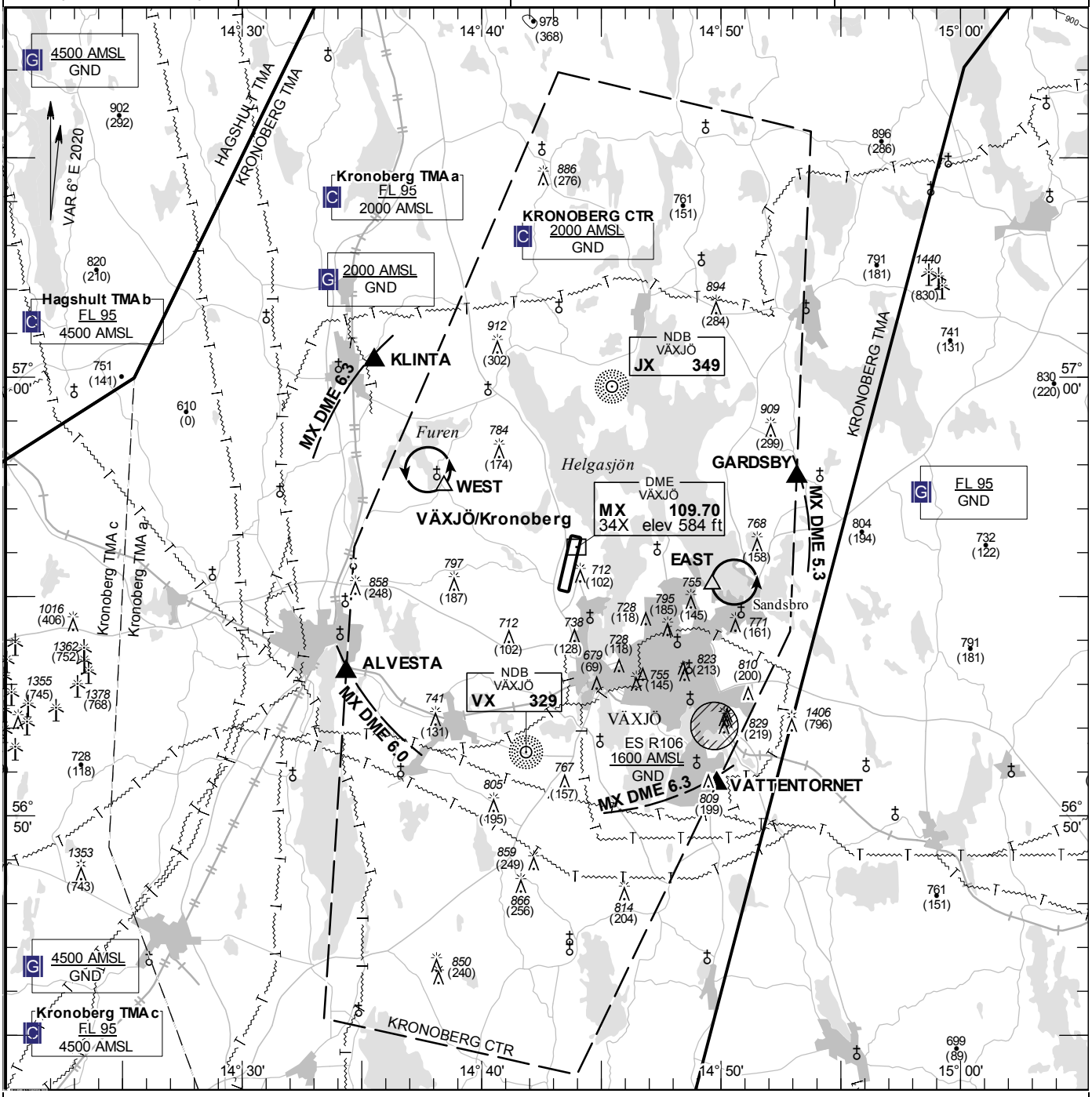


Reverse side intentionally blank

AD ELEV 610 FEET HGT and ALT in ft TA 5000 AMSL	KRONOBERG TOWER 118.155	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



VISUAL APPROACH CHART - ICAO 1:250000 1 0 1 2 3 4 5 km 1 0 1 2 3 NM	AD ELEV 610 FEET ELEV and ALT in ft HGT in ft above AD ELEV **TA 5000 AMSL**	KRONOBERG TOWER 118.155	AD 2 ESMX 6-1 VÄXJÖ/Kronoberg SWEDEN



Communication failure

1 SQUAWK 7600
2 Enter CTR via GARDSBY – Holding EAST or via KLINTA – Holding WEST at or below 1600 ft AMSL to traffic circuit. Transmit blind your intentions.
3 Flash LDG-lights and watch TWR for optical signals.

Remark

Right hand traffic circuit when RWY 19 is in use.

RWY NR	THR ELEV	PAPI (MEHT)
01	610 ft	Left/3.00° (45 ft)
19	563.2 ft	Left/2.86° (59 ft)

Legend

See GEN 2.3

Entry / exit point

KLINTA	570022N 0143531E
GARDSBY	565743N 0145310E
VATTENTORNET	565043N 0144949E
ALVESTA	565316N 0143420E

Holding

EAST: Hold at the creek north west SANDSBRO, east of point 565516N 0144938E

WEST: Hold at HÄRLÖV south of lake FUREN, north west of point 565730N 0143825E

COM FAILURE
- SET TRANSPONDER CODE 7600

KARLSTAD CTR
2000 AMSL
GND

NKS 341
593155.4N
0132512.1E

VOR/DME KARLSTAD
KSD 117.80
125X elev 341 ft
592632.8N
0131953.6E

KARLSTAD

KARLSTAD TMA

Karlstad TMA a
FL 95
2000 AMSL

Karlstad TMA b
FL 95
4500 AMSL

Karlstad TMA a
Karlstad TMA b

2013
(1083)

VAR 7° E 2025

593403N
0145533E

593228N
0152413E

593024N
0155907E

591806N
0155939E

591456N
0145137E

591046N
0144210E

591139N
0151231E

591121N
0153139E

590508N
0142716E

590055N
0141614E

590115N
0145240E

590022N
0150104E

585620N
0151844E

584942N
0144748E

584820N
0142052E

584838N
0150023E

584627N
0145514E

584317N
0143246E

592347N
0150719E

592319N
0151314E

592302N
0150038E

2500

2900

5000

2200

2500

5000

5000

1873
(1060)

ES R18B
UNL
GND

ES R124
2800 AMSL
GND

ES R18A
UNL
GND

ES R18
UNL
GND

ES R18C
UNL
GND

NDB
ÖREBRO
EN 400
591727.8N
0150354.1E

DME
ÖREBRO
NOE 108.50
22X elev 204 ft
591401.4N
0150222.9E

ÖREBRO

ÖREBRO CTR
2000 AMSL
GND

Örebro TMA a
FL 95
2000 AMSL

Örebro TMA b
FL 95
4500 AMSL

Örebro TMA a

Örebro TMA b

ÖREBRO TMA

10 NM NOE

20 NM NOE

30 NM NOE

40 NM NOE

ÖREBRO CTR

NDB
ÖREBRO
RB 375
590802.4N
0150011.0E

ES R97
2000 AMSL
GND

Örebro TMA c
FL 95
4500 AMSL

Örebro TMA a

Örebro TMA c

TMA Sector Tiveden
FL 95
4500 AMSL

ES R114
1200 AMSL
GND

ES R22A
21000 AMSL
GND

ES R22D
21000 AMSL
GND

KARLSBORG CTR
1700 AMSL
GND

KARLSBORG TMA

KARLSBORG TMA
FL 95
1700 AMSL

1600
(1089)

ES R23
18000 AMSL
GND

ES R208
FL 195
3000 AMSL
(15 APR-15 OCT)

ES R208A
FL 195
3000 AMSL
(15 APR-15 OCT)

ES R208B
FL 195
3000 AMSL
(15 APR-15 OCT)

TMA Sector Linköping
4500 AMSL
1600 AMSL

TMA Sector Norrköping
4500 AMSL
1600 AMSL

TMA Sector Ny köping

TMA Sector Ny köping
4500 AMSL
1600 AMSL

ÖSTGÖTA TMA
FL 95
4500 AMSL

ÖSTGÖTA TMA

Östgöta TMA a
FL 95
1600 AMSL

SKAVSTA CTR

1196
(1070)

DME
STOCKHOLM/Västerås
SCD 108.30
20X elev 32 ft
593554.8N
0163807.2E

LE 333
593946.9N
0163948.7E

STOCKHOLM/Västerås

ROKNI

JOHANNISBERG ATZ
1000 AMSL
GND

DVOR/DME
ÖREBRO
ARS 112.80
75X elev 40 ft
593510.4N
0163901.2E

RD 419
593103.2N
0163616.3E

VÄSTERÅS CTR

DME
ESKILSTUNA
SU 110.90
46X elev 151 ft
592041.8N
0164240.3E

ESKILSTUNA

ESKILSTUNA TIZ/RMZ
1500 AMSL
GND

LX 402
591631.7N
0164247.3E

TMA Sector Västerås
4500 AMSL
1500 AMSL

TINKA

ESKILSTUNA TIA/RMZ
4500 AMSL
1500 AMSL

Stockholm TMA h
FL 95
4500 AMSL

ES R128
2000 AMSL
GND

STOCKHOLM TMA

TIPIX

BELRO

LIBSI

GIMLO

DME
NORRKÖPING
KSP 111.10
48X elev 52 ft
583514.0N
0161412.4E

1436
(1066)

DME
NORRKÖPING
SP 109.50
32X elev 63 ft
583505.0N
0161548.6E

ON 324
583504.0N
0162255.3E

TONSA

KUNGSÄNGEN CTR
1600 AMSL
GND

NORRKÖPING/Kungsängen

LEGEND
See GEN 2.3

1:500 000

10 0 10 20 km
5 0 5 10 15 NM

13° 30' 14° 00' 14° 30' 15° 00' 15° 30' 16° 00' 16° 30'

59° 30'

59° 00'

ESNO 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 LIH	Green	PAPI Left/3.25° (57.0 ft)	-	-	2016/50 m White Caution zone 600 m yellow LIH	Red	-
30	SALS 420 m LIH	Green	PAPI Left/3.00° (25.1 ft)	-	-	2016/50 m White Caution zone 600 m yellow LIH	Red	-

10 Remarks: -

ESNO 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 At GP and NW THR 30, lighted
3.	TWY edge and centre line lighting	Edge: TWY A CL: -
4.	Secondary power supply/switch-over time	Available/15 sec
5.	Remarks	-

ESNO 2.16 HELICOPTER LANDING AREA

RWY 12/30 to be used.

ESNO 2.17 ATS AIRSPACE

1.	Designation and lateral limits	ÖRNSKÖLDSVIK CTR	633055N 0184559E - 632939N 0190619E - 632101N 0191947E - 631759N 0191535E - 631927N 0185218E - 632656N 0184033E - 633055N 0184559E
2.	Vertical limits	ÖRNSKÖLDSVIK CTR	2400 ft AMSL GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	ÖVIK TOWER Swedish/English	
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	CTR established during hours of TWR.	

ESNO 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	ÖVIK TOWER	122.255	HO	Primary channel
		121.500	HO	-
		118.905	HX	By directive from TWR

ESNO 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)	NO	110.10 MHz	HO	632413.7N 0190028.8E		151 m beyond THR 30 LOC Class I/E/2
GP		334.40 MHz	HO	632449.1N 0185837.3E		Angle 3.25° RDH 50.2 ft 275 m past THR 12 left side GP Class I/C/2
L 12	OD	322 kHz	H24	632613.3N 0185313.9E		Range 15 NM
L 30	OO	369 kHz	H24	632213.7N 0190756.6E		Range 15 NM
VOR/DME (8° E 2020)	OSK	115.00 MHz	H24	632421.8N 0185936.8E	356 ft	DME channel 97X
DME	NO	110.10 MHz	H24	632449.2N 0185837.4E	383 ft	DME channel 38X

ESNO 2.20 LOKALA TRAFIKFÖRESKRIFTER

NIL

LOCAL TRAFFIC REGULATIONS

NIL

ESNO 2.21 MINSKNING AV BULLERSTÖRNING

NIL

NOISE ABATEMENT PROCEDURES

NIL

ESNO 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 800 ft. Continue climb to appropriate MSA.	-		
30	Climb straight ahead with MNM 240 ft/NM (3.8%) to MNM turning ALT 1300 ft. Continue climb to appropriate MSA.	Terrain Tree Tree	978 895 934	292°/8416 288°/7746 314°/8424

2. Lågsiktsprocedurer (LVP) etablerade

Lägsta RVR för avgående trafik är 400 m.

LVP ska vara i kraft inför start, när bansynvidden (RVR) är lägre än 550 m eller när molntäckeshöjden eller vertikalsikten är lägre än 200 ft.

Att LVP är aktiverade meddelas av ATS.

När LVP är aktiverade tillåts endast ett luftfartyg åt gången på manöverområdet.
Då luftfartyg befinner sig på manöverområdet får inga fordon förekomma där.

Att LVP är avslutade meddelas av ATS.

2. Low visibility procedures (LVP) established

Minimum RVR for departing traffic is 400 m.

LVP shall be in force prior to any departure, when the Runway Visual Range (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 applies only one aircraft is allowed on the manoeuvring area.
No vehicles are allowed on the manoeuvring area at the same time as an aircraft.

ATS announces when LVP no longer applies.

ESNO 2.23 ÖVRIG INFORMATION

1. ATS-tjänst bedrivs från RTC Sundsvall.
2. Signalstrålkastare placerad på R-TWR.
3. Beviljande undantag från krav i CS-ADR-DSN:
   - Trafikljus i fordon med DRIWS ersätter trafikljus på anslutningsvägar till bana.
   - Fasta hinder genomtränger i följande hinderbegränsade ytor enligt förteckning:
     - Inflygningsyta bana 12
     - Horisontella ytan
     - Koniska ytan
     - Övergångsytan bana 12 och 30
     - Stråkytan bana 12 och 30

ADDITIONAL INFORMATION

1. ATS provided from RTC Sundsvall.
2. Signalling lamp positioned at R-TWR.
3. Granted exemptions from requirements in CS-ADR-DSN:
   - Road-holding position lights in vehicles with DRIWS replace road-holding position lights on roads serving runway.
   - Fixed obstacles penetrate the following obstacle limitation surfaces according to list:
     - Approach surface RWY 12
     - Horizontal surface
     - Conical surface
     - Transitional surface RWY 12 and 30
     - Strip RWY 12 and 30

ESNO 2.24 TILLHÖRANDE KARTOR

RELATED CHARTS

AD chart		ESNO 2-1
AOC	RWY 12/30	ESNO-3-1
Area chart	(TMA)	ESNO 4-1
List of waypoints and significant points		ESNO 4-3
ATC Surveillance Minimum ALT chart		ESNO 4-91
IAC	ILS z or LOC z RWY 12	ESNO 5-1
IAC	ILS y or LOC y RWY 12	ESNO 5-2
IAC	VOR RWY 12	ESNO 5-3
IAC	VOR RWY 30	ESNO 5-5
IAC	NDB RWY 30	ESNO 5-6
IAC	RNP RWY 12	ESNO 5-7
IAC	RNP RWY 30	ESNO 5-11
VAC		ESNO 6-1

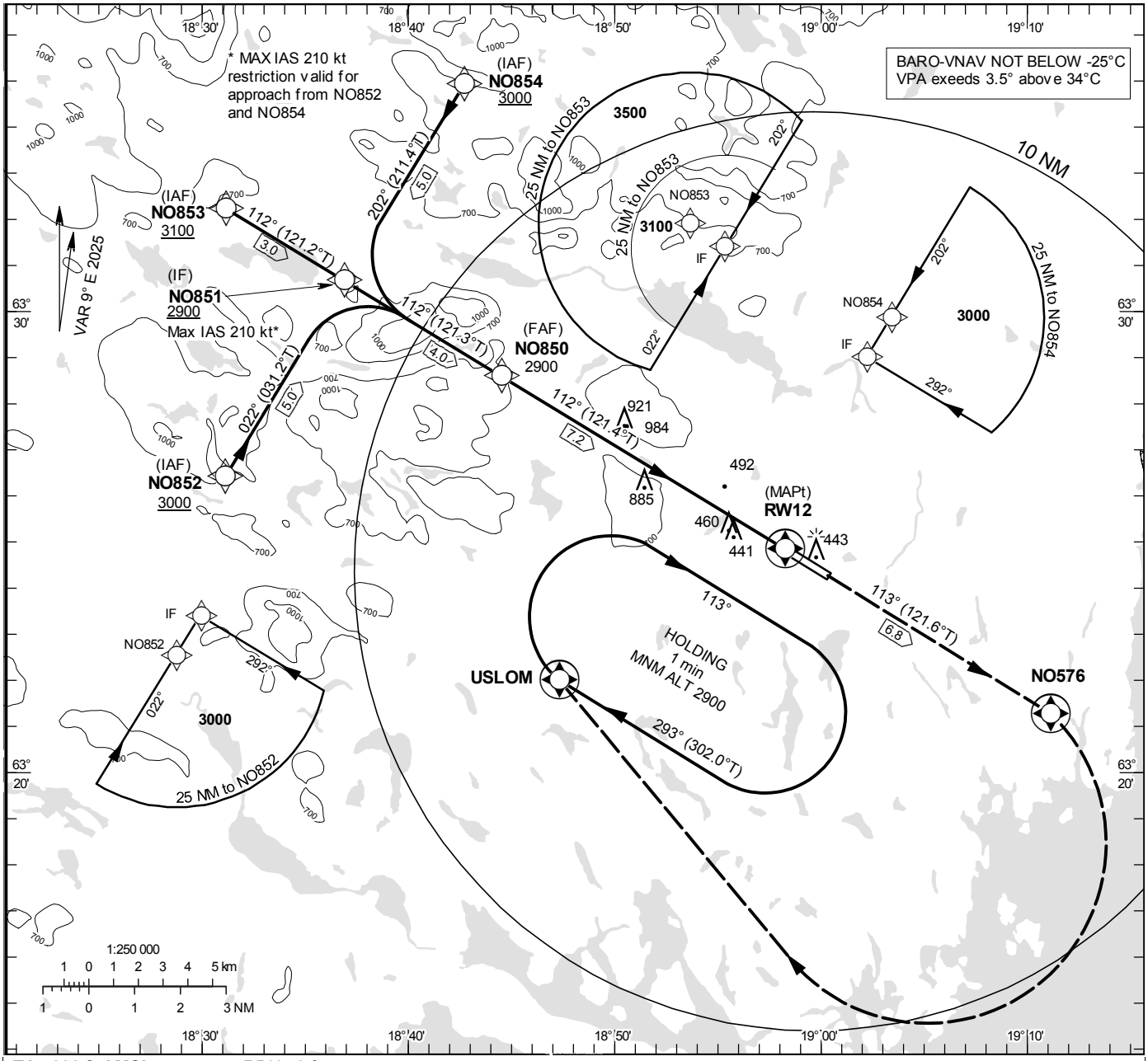
INSTRUMENT APPROACH CHART – ICAO

THR ELEV 354.1 ft, AD ELEV 355 ft
OCH are related to THR.
BRG are MAG (True).
ALT, HGT and ELEV in ft.

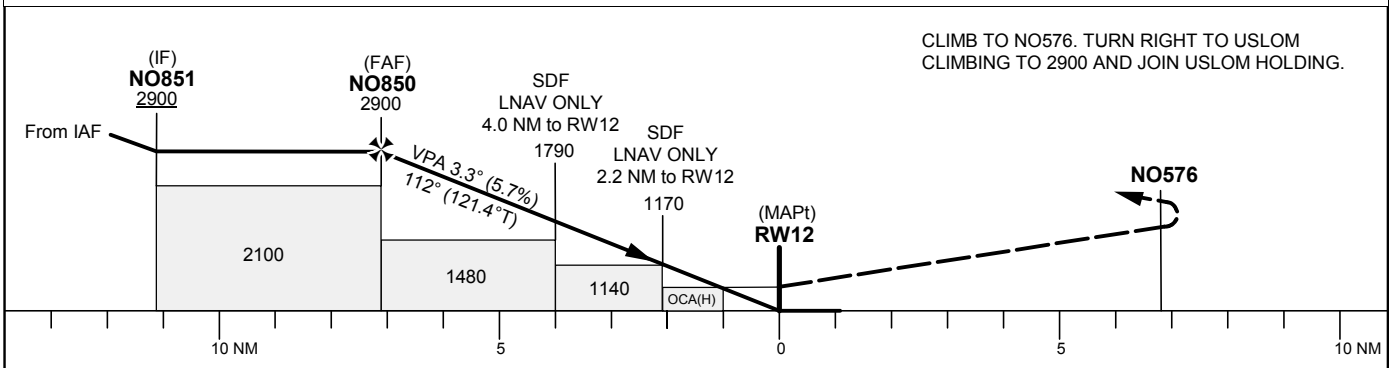
ÖVIK TOWER	122.255

RNP RWY 12

EGNOS CH 57185 E 12A



TA 5000 ft AMSL RDH 50 ft



OCA (H)					Final approach	Distance FAF-MAPt 7.2 NM						
Cat of ACFT	A	B	C	D	Dist to RWY 12	7	6	5	4	3	2	1
LPV	577 (223)	589 (235)	597 (243)	607 (253)	ALT	2820	2470	2130	1780	1440	1090	750
LNAV/VNAV	575 (221)	587 (233)	595 (241)	607 (253)	GS	kt	80	100	120	140	160	180
LNAV	740 (390)				Rate of descent	ft/min	460	575	690	805	920	1035

RNP RWY 12 via IAF NO852

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
IF	NO852	-	-	-	-	+3000	-	-	-	RNP APCH
TF	NO851	-	022°(031.2°)	5.0	-	+2900	-210	-	-	RNP APCH

RNP RWY 12 via IAF NO853

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
IF	NO853	-	-	-	-	+3100	-	-	-	RNP APCH
TF	NO851	-	112°(121.2°)	3.0	-	+2900	-	-	-	RNP APCH

RNP RWY 12 via IAF NO854

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
IF	NO584	-	-	-	-	+3000	-	-	-	RNP APCH
TF	NO851	-	202°(211.4°)	5.0	-	+2900	-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	NO851	-	-	-	-	+2900	-	-	-	RNP APCH
TF	NO850	-	112°(121.3)	4.0	-	+2900	-	-	-	RNP APCH
TF	RW12	Y	112°(121.4°)	7.2	-	@404	-	-3.25/50		RNP APCH
TF	NO576	Y	113°(121.6°)	6.8	-	-	-	-	-	RNP APCH
DF	USLOM	Y	-	-	R	+2900	-	-	-	RNP APCH

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
HM	USLOM	Y	293°(302.0°)	-	R	+2900	-	-	-	RNAV

FAS Data Block **RNP RWY 12**

Input data

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	ESNO
Runway	12
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E12A
LTP/FTP Latitude	632450.3645N
LTP/FTP Longitude	0185815.7960E
LTP/FTP Ellipsoidal Height (metres)	131.6
FPAP Latitude	632416.2490N
Delta FPAP Latitude (seconds)	-34.1155
FPAP Longitude	0190019.4825E
Delta FPAP Longitude (seconds)	123.6865
Threshold Crossing Height	50.0
TCH Units Selector	0 (feet)
Glidepath Angle (degrees)	3.25
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	50.0

Output data

Data Block	10 0F 0E 13 05 0C 00 00 01 32 31 05 79 DE 36 1B E8 38 24 08 24 19 79 F5 FE 4D C6 03 F4 01 45 01 64 00 C8 FA DB 46 F7 DE
Calculated CRC Value	DB46F7DE

Required Additional Data

ICAO Code	ES
LTP/FTP Orthometric Height (metres)	107.9

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