AIP AMENDMENT SWEDEN

AIRAC AIP AMDT
6
21 SEP 2023

EFFECTIVE 02 NOV 2023

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

Do not insert in AIP until/Sätt ej in i AIP förrän **02 NOV 2023**

Subject(s)	AIRAC Changes	AIP page
Prohibited, restricted and danger areas	Changes to ESR31 Stora and Lilla Karlsö, ESR43 Sågebacken and ESR103 Remmene. ESR104 Känsö changed and sectorized. New danger area ESD190 Kattegatt.	ENR 5.1
Borlänge AD	RFFS, PPR.	AD 2 ESSD
Karlstad AD	RFFS, local traffic regulations, noise abatement procedures.	AD 2 ESOK
Ljungbyhed AD	Declared distances, RFFS.	AD 2 ESTL
Skellefteå AD	IAP, MAG VAR.	AD 2 ESNS
Stockholm/Arlanda AD	RWY regulation, IAP.	AD 2 ESSA
Stockholm/Västerås AD	PPR, fuel, RFFS, de-icing, AD obstacles, declared distances, local traffic regulations.	AD 2 ESOW
Trollhättan-Vänersborg AD	IAP, MAG VAR, flight procedures.	AD 2 ESGT

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
ATS Routes	Rearranged according to (EU) 2017/373.	ENR 3
Radio navigation aids	MAG VAR.	ENR 4.1
Aerodrome directory	ESHK, ESGE, ESTF and ESSX.	AD 1.1
Arvidsjaur AD	TWY holding restriction.	AD 2 ESNX
Kalmar AD	Fuel, TEL, FAX.	AD 2 ESMQ
Karlsborg AD	ATS operational hours.	AD 2 ESIA
Mora/Siljan AD	RFFS.	AD 2 ESKM
Ängelholm AD	Capability for removal of disabled aircraft and local traffic regulations.	AD 2 ESTA
Örnsköldsvik AD	RFFS.	AD 2 ESNO

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AD 2

GÖTEBORG/Landvetter
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ESGG 4-7/8
ESGG 4-13/14
ESGG 4-19/20
ESGG 4-23/24
ESGG 4-27/28
ESGG 4-31/32
ESGG 4-91

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ESGP 6-1

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ESMQ 1-1/2

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KARLSTAD
ESOK 1-1/2
ESOK 1-7--10

LJUNGBYHED
ESTL 1-1/2
ESTL 1-5--8
ESTL 4-7/8

LYCKSELE
ESNL 5-3/4
ESNL 5-11/12

MORA/Siljan
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SKELLEFTEÅ
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ESNS 1-5--9
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ESNS 4-1
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STOCKHOLM/Arlanda
ESSA 1-19--24
ESSA 1-27--29
ESSA 3-1
ESSA 4-3--5
ESSA 5-9 --33
-
-
-
-

STOCKHOLM/Västerås
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ESOW 2-1
ESOW 3-1

SÅTENÄS
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TROLLHÄTTAN/Vänersborg
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AD 2

GÖTEBORG/Landvetter
ESGG 4-1
ESGG 4-7/8
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ESGP 6-1

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ESMQ 1-1/2

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KARLSTAD
ESOK 1-1/2
ESOK 1-7--10

LJUNGBYHED
ESTL 1-1/2
ESTL 1-5--8
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LYCKSELE
ESNL 5-3/4
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MORA/Siljan
ESKM 1-1/2

SKELLEFTEÅ
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STOCKHOLM/Arlanda
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ESSA 5-13--17
ESSA 5-19--33
ESSA 5-35--37
ESSA 5-39--41

STOCKHOLM/Västerås
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ESOW 2-1
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SÅTENÄS
ESIB 4-91

TROLLHÄTTAN/Vänersborg
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ESSV 6-1

AD 2	ÄNGELHOLM ESTA 1-1/2 ESTA 1-5--8 ÖRNSKÖLDSVIK ESNO 1-1--4	AD 2	ÄNGELHOLM ESTA 1-1/2 ESTA 1-5--8 ÖRNSKÖLDSVIK ESNO 1-1--4

Record the Amendment on page GEN 0.2–1.
Anteckna ändringen på sida GEN 0.2–1.

Följande AIP Supplement, AIC och NOTAM är inarbetade i detta AMDT och upphör att gälla den 02 NOV.

The following AIP Supplements, AIC and NOTAMs are incorporated in this amendment and will expire on 02 NOV.

Supplement:

97/2023 STOCKHOLM/Västerås AD (ESOW) - PPR
117/2023 STOCKHOLM/Karolinska Universitetssjukhuset Solna (ESHK) – Single TLOF/FATO closed
131/2023 BORLÄNGE AD (ESSD) - RFFS
135/2023 MORA/Siljan AD (ESKM) – RFFS

AIC: -

NOTAM:

Series A: -
Series B: 1921/23, 2273/23, 2352/23
Series C: -
Series D: -
Series E: 0576/23, 0619/23, 0696/23, 0758/23, 0759/23
Series H: -

For comments, please contact: aip@lfv.se

- E N D / S L U T -

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0-4-5	02 NOV 2023
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(Ej översatt)	LPV	Localizer Performance with Vertical guidance
Det senaste meddelandet som jag mottagit var... (trafiksignal i AFS)	LR	The last message recieved by me was... (to be used as a procedure signal)
Lång räckvidd eller långtids-	LRG	Long range
Det senaste meddelandet som jag sänt var... (trafiksignal i AFS)	LS	The last message sent by me was... or last message was... (to be used as a procedure signal)
Begränsad	LTD	Limited
Telefon, trådförbindelse	LTF >>	Landline telephone
(Ej översatt)	LTP	Landing Threshold Point
Fjärrskriftförbindelse, enkelriktad	LTT	Landline teletypewriter
Svag(a) och växlande (i samband med vind)	LV	Light and variable (relating to wind)
Lämna eller lämnar	LVE	Leave or leaving
Flyghöjd	LVL	Level
Flygplatstrafik i starkt nedsatt sikt	LVO	Low visibility operations
Lågsiktsprocedurer	LVP	Low visibility procedures
Lågsiktsstart	LVTO	Low visibility take-off
Skikt eller skiktad	LYR	Layer or layered
	M	
Mach-tal (följt av siffror)	M	Mach number (followed by figures)
Meter (föregånget av siffror)	m	Metres (preceded by figures)
Högsta tillåtna höjd över havet	MAA	Maximum authorized altitude
Magnetisk	MAG	Magnetic
Underhåll	MAINT	Maintenance
Kartor för luftfarten	MAP	Aeronautical maps and charts
Punkt för avbruten inflygning	MAPT	Missed approach point
Till havs	MAR	At sea
Mars	MAR	March
Radiotelegrafi A1A simplex	MAS	Manual A1A simplex
Svängpunkt vid avbruten inflygning	MATF	Missed approach turning fix
Maximum	MAX	Maximum
Maj	MAY	May
Nödsignal (RTF)	MAYDAY	Distress signal (RTF)
Kraftigt nedsvep (i anslutning till Cb moln)	MBST	Microburst
Lägsta korsnings- eller passagehöjd	MCA	Minimum crossing altitude
Modulerad kontinuerlig radiovåg	MCW	Modulated continuous wave
Lägsta planéhöjd (med referens till QNH)	MDA	Minimum descent altitude
MF-pejl	MDF	Medium frequency direction-finding station
Lägsta planéhöjd (med referens till QFE)	MDH	Minimum descent height
Minimihöjd på sträcka (MSL)	MEA	Minimum en-route altitude
Lägsta ögonhöjd över tröskeln (för visuell glidbaneindikering)	MEHT	Minimum eye height over threshold (for visual approach slope indicator)
Meteorologisk eller meteorologi	MET *	Meteorological or meteorology
Självständig militär vädertjänst	MET >>	(Not translated)
Meteorologisk rapport	MET REPORT	Meteorological report
Regelbunden rapport för luftfarten (i meteorologisk kod för luftfarten)	METAR *	Aviation routine weather report (in aeronautical meteorological code)
Meteorologiskt kontor	METO >>	Meteorological office
Meteorologisk station	METS >>	Meteorological station
Hektometervågor (300 - 3 000 kHz)	MF	Medium frequency (300 to 3000 kHz)
MF- och HF-pejl (på samma plats)	MHDF	Medium and high frequency direction-finding stations (at the same location)
MF-, HF- och VHF-pejl (på samma plats)	MHVDF	Medium, high and very high frequency direction-finding stations (at the same location)
Megahertz	MHz	Megahertz
Mittzon (i samband med RVR)	MID	Mid-point (related to RVR)
Låg dimma	MIFG	Shallow fog
Militär	MIL	Military
Minuter	min	Minutes
Jag saknar... (sändningbeteckning) (trafiksignal i AFS)	MIS	Missing... (transmission indentification) (to be used in AFS as a procedure signal)
Markeringsradiofyr	MKR	Marker radio beacon
Mikrovågslandningssystem	MLS #	Microwave landing system
Mellansignal	MM	Middle marker
Minimum	MNM	Minimum
Minimikrav för navigeringsnoggrannhet	MNPS	Minimum navigation performance specifications
Övervaka, övervakning eller övervakad	MNT	Monitor or monitoring or monitored

Bibehåll	MNTN	Maintain
Militärt operationsområde	MOA	Military operating area
Minsta (erforderliga) hinderfrihet	MOC	Minimum obstacle clearance (required)
Minsta höjd för hinderfrihet	MOCA	Minimum Obstacles clearance altitude
Måttlig(t) (används för att ange intensiteten på väderfenomen etc, t.ex. MOD RA = måttligt regn)	MOD	Moderate (used to indicate the intensity of weather phenomena, interference or static reports e.g. MOD RA = moderate rain)
Över hög terräng eller i bergstrakter	MON	Above mountains
Måndag	MON	Monday
(Ej översatt)	MOPS *	Minimum operational performance standard
Meteorologiska operationella telenätet i Europa	MOTNE	Meteorological operational telecommunications network europe
Förflytta eller förflytta sig	MOV	Move or moving
Meter per sekund	mps	Metres per second
Lägsta motttagningshöjd	MRA	Minimum reception altitude
Medelräckvidd	MRG	Medium range
ATS/MET rapportpunkt	MRP	ATS/MET reporting point
Minus	MS	Minus
Lägsta sektorhöjd	MSA	Minimum sector altitude
Varning för minsta säkra flyghöjd	MSAW	Minimum safe altitude warning
Meddelande	MSG	Message
Havsytans medelnivå	MSL	Mean sea level
Meddelande... (sändningsbeteckning) är feldirigerat (trafiksignal i AFS)	MSR ++	Message... (transmission identification) has been misrouted (to be used in AFS as a procedure signal)
Sekundärradar av monopulstyp	MSSR	Monopulse secondary surveillance radar
Berg	MT	Mountain
Högsta tillåtna startmassa	MTOM >>	Maximum take-off mass
Högsta tillåtna startvikt	MTOW >>	Maximum take-off weight
Metriska måttenheter	MTU	Metric units
Lävågor i bergstrakter	MTW	Mountain waves
(Ej översatt)	MU ^	Management Unit (ACARS)
MF- och VHF-pejl (på samma plats)	MVDF	Medium and very high frequency direction-finding stations (at the same location)
Meteorologiskt övervakningskontor	MWO	Meteorological watch office
Blandning av genomskinlig och ogenomskinlig isbildning	MX	Mixed type of ice formation (white and clear)
	N	
Ingen tendens (tendens för RVR under de senaste 10 min.)	N	No distinct tendency (in RVR during previous 10 min)
Nord eller nordlig latitud	N	North or northern latitude
Förfarande för minskning av buller vid start	NADP	Noise abatement departure procedure
ICAO Nordatlanten	NAT	ICAO North Atlantic
Navigation	NAV	Navigation
Navigationshjälpmedel	NAVAID	Navigation aid
Nordgående	NB	Northbound
Ej före (innan)	NBFR	Not before
Ingen ändring	NC	No change
(Ej översatt)	NCC ^	Non-commercial operations with complex-motor-powered aircraft
(Ej översatt)	NCO ^	Non-commercial operations with other than complex-motor-powered aircraft
Oriktad radiofyr	NDB #	Non-directional radio beacon
Nordost	NE	North-east
Nordostgående	NEB	North-eastbound
Nej eller tillstånd ges inte eller det är inte rätt	NEG	No or negative or permission not granted or that is not correct
Natt	NGT	Night
Ingen eller jag har intet att sända till dig	NIL *	None or I have nothing to send to you
Distansminuter	NM	Nautical miles
Normal	NML	Normal
Nordnordost	NNE	North north east
Nordnordväst	NNW	North north west
Nej (trafiksignal i AFS)	NO	No (negative) (to be used in AFS as a procedure signal)
Internationellt NOTAM-kontor	NOF	International NOTAM office
Ingen signifikativ ändring (används i trend-prognos)	NOSIG *	No significant change (used in trendtype landing forecasts)
Meddelande som innehåller information om	NOTAM *	A notice containing information concerning the establishment,

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
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

2 Definitions

AMC Manageable Area (AMA)

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

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

FRA Arrival Connecting Point:

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

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

FRA Departure Connecting Point:

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

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

FRA Horizontal Entry Point:

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

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

FRA Horizontal Exit Point:

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

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

FRA Connecting Point:

En position där övergång mellan FRA och flygvägar planeras.

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

FRA Connecting Route:

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

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.

DEL 2 – EN-ROUTE (ENR) – PART 2

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NIL

3.1 Conventional navigation rutes

NIL

3.2 Flygväg baserad på områdesnavigering 3.2 Area navigation routes

RNAV ROUTES

RNAV 5 represents a navigation accuracy of ±5 NM on a 95 per cent containment basis.

Route designator (RNAV/RNP type) Name of significant points Coordinates	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1	2	3	4	5		6
L24 **(RNAV 5)**						
Δ MASEV FIR BDRY 601040N 0123205E	NIL					For continuation, see AIP Norway.
		196.9	FL 285 / FL 095 Class C	↓		
Δ EVLAN FIR BDRY 601508N 0190643E	NIL					For continuation, see AIP Finland.
L77 **(RNAV 5)**						
Δ LUPET FIR BDRY 593825N 0195235E	NIL					For continuation, see AIP Finland.
		24.4	FL 660 / FL 095 Class C		↓	
Δ XILAN 593933.5N 0190433.8E	NIL					
		61.3	FL 285 / FL 095 Class C		↓	
Δ KOGAV 600452.0N 0171346.6E	NIL					
		55.1	FL 285 / FL 095 Class C		↓	
Δ BORLÄNGE VOR/DME BOR 602517.4N 0153109.1E	NIL					
		68.9	FL 285 / FL 095 Class C	↑	↓	
Δ UMSAK 612528N 0142301E	NIL					
		67.4	FL 285 / FL 095 Class C	↑	↓	To avoid ES R13 TEMPO radar vectoring on ATC instructions. Route extension: Max 1 NM.
Δ OVDAL 622343N 0131205E	NIL					
L80 **(RNAV 5)**						
Δ TOGMI FIR BDRY 614543N 0193225E	NIL					For continuation, see AIP Finland.
		208.7	FL 285 / FL 245 Class C	↑	↓	
Δ GIKAV FIR BDRY 640204N 0134738E	NIL					For continuation, see AIP Norway.

RNAV ROUTES

RNAV 5 represents a navigation accuracy of ±5 NM on a 95 per cent containment basis.

Route designator (RNAV/RNP type)	*Name of significant points Coordinates*	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	*Direction of cruising levels* Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
L87 (RNAV 5)	Δ KELAS FIR BDRY 602807N 0191033E	NIL					For continuation, see AIP Finland.
			26.0	FL 660 / FL 095 Class C		↓	
	Δ HAMMAR DVOR/DME HMR 601645.2N 0182329.6E	NIL					
			76.9	FL 285 / FL 095 Class C		↓	
	Δ PETEV 591225.8N 0170043.5E	NIL					
			39.1	FL 285 / FL 095 Class C		↓	
	Δ TONSA 583632.9N 0163112.9E	NIL					
			19.9	FL 660 / FL 095 Class C		↓	
	Δ PELUP 581643.8N 0162840.5E	NIL					
			42.2	FL 660 / FL 095 Class C	↑	↓	
	Δ VIBAR 573441N 0162326E	NIL					
			21.6	FL 285 / FL 095 Class C	↑	↓	
	Δ MOVIS 571309.7N 0162050.1E	NIL					
			32.2	FL 285 / FL 095 Class C	↑	↓	
	Δ KALMAR VOR/DME KAL 564107.2N 0161702.8E	NIL					
			76.1	FL 285 / FL 195 Class C		↓	CDR1 H24
	Δ ETRUS 552824N 0153805E	NIL					
			35.4	FL 285 / FL 195 Class C		↓	
	Δ LUSID FIR BDRY 545500N 0151746E	NIL					For continuation, see AIP Poland.

RNAV ROUTES

RNAV 5 represents a navigation accuracy of ±5 NM on a 95 per cent containment basis.

Route designator (RNAV/RNP type) Name of significant points Coordinates	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1	2	3	4	5		6
L199 **(RNAV 5)**						
Δ RASEL FIR BDRY 580141N 0202453E	NIL	———		———	———	For continuation, see AIP Latvia.
		77.7	FL 285 / FL 095 Class C	↑	↓	To avoid ES R71 and ES D175 TEMPO radar vectoring on ATC instruction. Route extension: 6 NM NIKEG: Entry point for traffic from ESKN CDR1 H24
Δ NIKEG 584128N 0181815E	NIL	———		———	———	
		15.1	FL 285 / FL 095 Class C	↑	↓	To avoid ES R71 and ES D175 TEMPO radar vectoring on ATC instruction. Route extension: 6 NM NIKEG: Entry point for traffic from ESKN. CDR1 H24
Δ NILUG 584857N 0175305E	NIL	———		———	———	
		14.0	FL 285 / FL 095 Class C	↑	↓	To avoid ES R71 TEMPO radar vectoring on ATC instruction. Route extension: 6 NM CDR1 H24
Δ TROSA DVOR/DME TRS 585616.5N 0173008.3E	NIL	———		———	———	
		80.1	FL 285 / FL 095 Class C	↑	↓	CDR1 H24
Δ IBGAX 594320N 0152345E	NIL	———		———	———	
		34.9	FL 285 / FL 095 Class C	↑		
Δ LEGPO 600246N 0142618E	NIL	———		———	———	
		42.0	FL 285 / FL 095 Class C	↓	↑	Flight level change over LEGPO. To avoid ES R200 TEMPO radar vectoring on ATS instruction. Route extension: 10 NM.
Δ GEVRU 604434N 0141947E	NIL	———		———	———	
		33.3	FL 285 / FL 095 Class C	↓	↑	
Δ DIKVI 611744N 0142147E	NIL	———		———	———	
		27.5	FL 285 / FL 095 Class C	↓	↑	
Δ GOKEP 614509N 0142330E	NIL	———		———	———	
		52.9	FL 285 / FL 095 Class C	↓	↑	
Δ DIBVA 623752N 0142655E	NIL	———		———	———	
		34.2	FL 285 / FL 095 Class C	↓	↑	Flight level change over OSS.
Δ ÖSTERSUND DVOR/DME OSS 631158.4N 0142915.2E	NIL	———		———	———	
		48.4	FL 285 / FL 095 Class C	↑	↓	Flight level change over OSS.
Δ NETAV 635947N 0141437E	NIL	———		———	———	

RNAV ROUTES

RNAV 5 represents a navigation accuracy of ±5 NM on a 95 per cent containment basis.

Route designator (RNAV/RNP type)	*Name of significant points Coordinates*	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
L617 (RNAV 5)	Δ KOLOB FIR BDRY 544923N 0145639E	NIL					For continuation, see AIP Poland.
			15.9	FL 285 / FL 245 Class C		↓	
	Δ RØNNE VOR ROE 550356.08N 0144531.29E	NIL					
			111.2	FL 285 / FL 095 Class C	↑	↓	To avoid ES R35 and ES R50 TEMPO radar vectoring on ATC instruction. Route extension: 2 NM CDR1 H24
	Δ NILEN 564344.3N 0131918.6E	NIL					
			25.6	FL 660 / FL 095 Class C	↑	↓	To avoid ES R50 TEMPO radar vectoring on ATC instruction. Route extension: Max 2 NM Above FL285 AVBL westbound only. CDR1 H24
	Δ ARQUS 570545.0N 0125543.1E	NIL					
			47.5	FL 285 / FL 095 Class C	↑	↓	CDR1 H24
	Δ LALIL 574625N 0121038E	NIL					
			29.7	FL 285 / FL 095 Class C	↑	↓	CDR1 H24
	Δ SABAK 581035.6N 0113833.8E	NIL					
			49.9	FL 660 / FL 095 Class C	↑	↓	Above FL285 AVBL westbound only. CDR1 H24
	Δ REPKU FIR BDRY 584821N 0103629E	NIL					For continuation, see AIP Norway.
L621 (RNAV 5)	Δ LUSID FIR BDRY 545500N 0151746E	NIL					For continuation, see AIP Poland.
			20.6	FL 285 / FL 095 Class C		↓	To avoid EK R95/R96 TEMPO radar vectoring on ATC instruction. Route extension: 2 NM.
	Δ RØNNE VOR ROE 550356.08N 0144531.29E	NIL					
			30.9	FL 285 / FL 095 Class C	↑	↓	
	Δ ELVIX 552443N 0140539E	NIL					
			22.5	FL 285 / FL 095 Class C	↑	↓	
	Δ MAXUM 553940.5N 0133614.4E	NIL					
			35.6	FL 285 / FL 095 Class C	↑	↓	
	Δ INRER 560309.7N 0124849.2E	NIL					
			10.7	FL 285 / FL 095 Class C	↑	↓	
	Δ ERNOV 561007.9N 0123425.6E	NIL					
			9.8	FL 660 / FL 095 Class C	↑	↓	
	Δ KULUD FIR BDRY 561538N 0121959E	NIL					For continuation, see AIP Denmark.

RNAV ROUTES

RNAV 5 represents a navigation accuracy of ±5 NM on a 95 per cent containment basis.

Route designator (RNAV/RNP type)	*Name of significant points Coordinates*	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
L727 **(RNAV 5)**	Δ MOGLU FIR BDRY 590730N 0114609E	NIL					For continuation, see AIP Norway.
			7.2	FL 660 / FL 095 Class C	↓		
	Δ GETPA 590209N 0115532E	NIL					
			13.6	FL 660 / FL 095 Class C	↓		
	Δ KORET 584839N 0115405E	NIL					
			15.4	FL 660 / FL 095 Class C	↓		
	Δ LATKU 583326N 0115813E	NIL					
			27.7	FL 660 / FL 095 Class C	↓		
	Δ NEGIL 581504.8N 0123731.2E	NIL					
			216.5	FL 285 / FL 095 Class C	↓		To avoid ES R103 TEMPO radar vectoring on ATC instruction. Route extension: Max 1 NM To avoid ES R204 TEMPO radar vectoring on ATC instruction. Route extension: Max 2 NM To avoid ES R30A TEMPO radar vectoring on ATC instruction. Route extension: Max 1 NM To avoid ES R64S TEMPO radar vectoring on ATC instruction. Route extension: Max 1 NM
	Δ PENOR FIR BDRY 553819N 0170941E	NIL					For continuation, see AIP Poland.
L734 **(RNAV 5)**	Δ NEBSI FIR BDRY 585418N 0205629E	NIL					For continuation, see AIP Estonia.
			95.4	FL 285 / FL 095 Class C	↑	↓	To avoid ES R71 and ES D175 TEMPO radar vectoring on ATC instruction. Route extension: 2 NM NEBSI: Entry point for traffic from ESKN. CDR1 H24
	Δ NILUG 584857N 0175305E	NIL					
			64.1	FL 285 / FL 095 Class C	↑	↓	CDR1 H24
	Δ GIMLO 584225.2N 0155036.8E	NIL					
			49.9	FL 285 / FL 095 Class C	↑	↓	To avoid ES R22 TEMPO radar vectoring on ATC instruction. Route extension: 5 NM CDR1 H24
	Δ DETSO 583600N 0141552E	NIL					
			30.2	FL 285 / FL 095 Class C		↓	
	Δ MOXAM 583152.9N 0131850.1E	NIL					

RNAV ROUTES

RNAV 5 represents a navigation accuracy of ±5 NM on a 95 per cent containment basis.

Route designator (RNAV/RNP type)	*Name of significant points Coordinates*	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	*Direction of cruising levels* Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
L870 **(RNAV 5)**	Δ NEBSI FIR BDRY 585418N 0205629E	NIL					For continuation, see AIP Estonia.
			73.2	FL 660 / FL 095 Class C		↓	
	Δ XILAN 593933.5N 0190433.8E	NIL					
			42.6	FL 285 / FL 095 Class C	↑	↓	
	Δ HAMMAR DVOR/DME HMR 601645.2N 0182329.6E	NIL					
			25.2	FL 660 / FL 095 Class C	↑	↓	Above FL285 AVBL eastbound only.
	Δ DEGAL 603820N 0175724E	NIL					
			148.5	FL 285 / FL 095 Class C	↑	↓	
	Δ OSLAV 624334.9N 0151059.9E	NIL					
			34.3	FL 285 / FL 095 Class C	↑	↓	
	Δ ÖSTERSUND DVOR/DME OSS 631158.4N 0142915.2E	NIL					
			53.6	FL 285 / FL 095 Class C	↑	↓	
	Δ GIKAV FIR BDRY 640204N 0134738E	NIL					For continuation, see AIP Norway.
L975 **(RNAV 5)**	Δ KOKAK FIR BDRY 552929N 0124254E	NIL					For continuation, see AIP Denmark.
			5.8	FL 285 / FL 095 Class C	↓	↑	
	Δ NISLO 552857N 0125305E	NIL					
			23.4	FL 285 / FL 095 Class C	↓	↑	
	Δ TIDVU 552440.7N 0133327.1E	NIL					
			18.4	FL 660 / FL 095 Class C	↓	↑	To avoid ES R55A TEMPO radar vectoring on ATC instructions. Route extension: Max 3 NM Above FL285 AVBL westbound only.
	Δ ELVIX 552443N 0140539E	NIL					

RNAV ROUTES

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Route designator (RNAV/RNP type)	*Name of significant points Coordinates*	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	*Direction of cruising levels* Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
L983 **(RNAV 5)**	Δ MATEK FIR BDRY 550059N 0124803E	NIL					For continuation, see AIP Denmark.
			6.9	FL 660 / FL 095 Class C	↓	↑	Above FL285 AVBL eastbound only.
	Δ DETUS 550122.1N 0125958.8E	NIL					
			14.8	FL 285 / FL 095 Class C	↓	↑	
	Δ BALOX 550208N 0132537E	NIL					
			23.8	FL 660 / FL 095 Class C	↓	↑	Above FL285 AVBL eastbound only.
	Δ TELMO 550316.6N 0140658.6E	NIL					
			10.0	FL 285 / FL 095 Class C	↓	↑	
	Δ GIROR 550336N 0142424E	NIL					
			12.1	FL 285 / FL 095 Class C	↓	↑	
	Δ RØNNE VOR ROE 550356.08N 0144531.29E	NIL					
			45.3	FL 285 / FL 095 Class C	↓	↑	To avoid ES D138 and D139 TEMPO radar vectoring on ATC instructions. Route extension: GND-FL200 Max 40 NM. FL200 and above Max 20 NM.
	Δ RUMAR FIR BDRY 550201N 0160415E	NIL					For continuation, see AIP Poland.
L987 **(RNAV 5)**	Δ MALIV 550945.8N 0130212.7E	NIL					
			16.8	FL 285 / FL 095 Class C	↓	↑	
	Δ SIMEG 551500N 0133004E	NIL					
			74.3	FL 660 / FL 095 Class C	↓	↑	To avoid ES R55A/ES D138 TEMPO radar vectoring on ATC instruction. Route extension: 3 NM Above FL285 AVBL eastbound only.
	Δ ETRUS 552824N 0153805E	NIL					
			53.0	FL 285 / FL 095 Class C	↓	↑	To avoid ES D138 TEMPO radar vectoring on ATC instruction. Route extension: 3 NM
	Δ PENOR FIR BDRY 553819N 0170941E	NIL					For continuation, see AIP Poland

RNAV ROUTES

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Route designator (RNAV/RNP type)	*Name of significant points Coordinates*	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
L990 **(RNAV 5)**	Δ KOSKA FIR BDRY 591058N 0204034E	NIL					For continuation, see AIP Finland.
			189.7	FL 285 / FL 095 Class C		↓	
	Δ LATVI 565301.0N 0163608.4E	NIL					
			15.9	FL 285 / FL 095 Class C		↓	
	Δ KALMAR VOR/DME KAL 564107.2N 0161702.8E	NIL					
			13.9	FL 285 / FL 095 Class C	↑	↓	To avoid ES R38 TEMPO radar vectoring on ATC instructions. Route extension: Max 3 NM
	Δ LAGIS 563317.8N 0155613.2E	NIL					
			44.7	FL 285 / FL 095 Class C	↑	↓	To avoid ES R38 TEMPO radar vectoring on ATC instructions. Route extension: Max 3 NM
	Δ KOTAM 560758N 0145012E	NIL					
			36.4	FL 660 / FL 095 Class C	↑	↓	To avoid ES R38 TEMPO radar vectoring on ATC instructions. Route extension: Max 3 NM
	Δ EKRAL 554636.4N 0135746.2E	NIL					
			24.6	FL 285 / FL 095 Class C		↓	
	Δ STURUP VOR/DME SUP 553204.3N 0132246.5E	NIL					
			15.6	FL 285 / FL 095 Class C		↓	
	Δ ADVIS 552305N 0130023E	NIL					
			13.6	FL 285 / FL 095 Class C		↓	ATS provided by Copenhagen APP/ACC.
	Δ LILBI FIR BDRY 551511N 0124058E	NIL					For continuation, see AIP Denmark.

RNAV ROUTES

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Route designator (RNAV/RNP type) Name of significant points Coordinates		*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
L996 **(RNAV 5)**	Δ TUMGU FIR BDRY 595328N 0120112E	NIL	———		———	———	For continuation, see AIP Norway.
			33.8	FL 285 / FL 095 Class C	↓		
	Δ OKSAT 591946N 0115726E	NIL	———		———	———	
			17.7	FL 660 / FL 095 Class C	↓		
	Δ GETPA 590209N 0115532E	NIL	———		———	———	
			13.6	FL 660 / FL 095 Class C	↓		
	Δ KORET 584839N 0115405E	NIL	———		———	———	
			15.4	FL 660 / FL 095 Class C	↓		
	Δ LATKU 583326N 0115813E	NIL	———		———	———	
			19.0	FL 660 / FL 095 Class C	↓		To avoid ES R43 TEMPO radar vectoring on ATC instruction. Route extension: None
	Δ KELIN 581436.9N 0120315.0E	NIL	———		———	———	
			28.5	FL 285 / FL 095 Class C	↓		
	Δ LALIL 574625N 0121038E	NIL	———		———	———	
			38.7	FL 285 / FL 095 Class C	↓		
	Δ TOPLA 570809.1N 0122020.2E	NIL	———		———	———	
			43.2	FL 660 / FL 095 Class C	↓		
	Δ ATRIB 562524N 0123048E	NIL	———		———	———	
			15.4	FL 660 / FL 095 Class C	↓		
	Δ ERNOV 561007.9N 0123425.6E	NIL	———		———	———	
			10.7	FL 285 / FL 095 Class C	↓	↑	
	Δ INRER 560309.7N 0124849.2E	NIL	———		———	———	
			35.6	FL 285 / FL 095 Class C	↓	↑	
	Δ MAXUM 553940.5N 0133614.4E	NIL	———		———	———	
			22.5	FL 285 / FL 095 Class C	↓	↑	
	Δ ELVIX 552443N 0140539E	NIL	———		———	———	
			30.9	FL 285 / FL 095 Class C	↓	↑	To avoid EK R95/R96 TEMPO radar vectoring on ATC instruction. Route extension: None
	Δ RØNNE VOR ROE 550356.08N 0144531.29E	NIL	———		———	———	
			16.0	FL 285 / FL 095 Class C	↓	↑	To avoid EK R95/R96 TEMPO radar vectoring on ATC instruction. Route extension: None
	Δ GOSOT FIR BDRY 544820N 0145128E	NIL	———		———	———	For continuation, see AIP Poland.

RNAV ROUTES

RNAV 5 represents a navigation accuracy of ±5 NM on a 95 per cent containment basis.

Route designator (RNAV/RNP type)	*Name of significant points Coordinates*	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
L997 **(RNAV 5)**	Δ VEDAR FIR BDRY 563154N 0120725E	NIL					For continuation, see AIP Denmark.
			24.1	FL 660 / FL 095 Class C		↓	
	Δ LASLI 565542N 0120042E	NIL					
			6.9	FL 660 / FL 095 Class C		↓	
	Δ RISMA 570231.0N 0115845.0E	NIL					
			23.1	FL 285 / FL 095 Class C		↓	
	Δ GIXUN 572516N 0115209E	NIL					
			46.0	FL 285 / FL 095 Class C		↓	
	Δ SABAK 581035.6N 0113833.8E	NIL					
			31.4	FL 660 / FL 095 Class C		↓	
	Δ XENTA 584129N 0112858E	NIL					
			25.4	FL 660 / FL 095 Class C		↓	
	Δ REGMA FIR BDRY 590632N 0112058E	NIL					For continuation, see AIP Norway.
M44 **(RNAV 5)**	Δ SALLO FIR BDRY 545500.0N 0132310.3E	NIL					For continuation, see AIP Germany.
			71.0	FL 285 / FL 095 Class C	↑	↓	
	Δ INRER 560309.7N 0124849.2E	NIL					
M82 **(RNAV 5)**	Δ ROVPA FIR BDRY 604402N 0122344E	NIL					For continuation, see AIP Norway.
			21.8	FL 285 / FL 245 Class C	↓	↑	
	Δ BUGAX 610000N 0125357E	NIL					
			62.5	FL 285 / FL 245 Class C	↓	↑	To avoid ES R13 TEMPO radar vectoring on ATC instruction. Route extension: Max 4 NM
	Δ GOKEP 614509N 0142330E	NIL					
			179.3	FL 285 / FL 245 Class C	↓	↑	To avoid ES R13 TEMPO radar vectoring on ATC instruction. Route extension: Max 4 NM
	Δ RASEN 634843N 0190551E	NIL					
			102.7	FL 285 / FL 095 Class C	↓		
	Δ ELBOG 650945.6N 0213053.4E	NIL					
			83.6	FL 285 / FL 095 Class C	↓		
	Δ MISMO FIR BDRY 661029N 0234910E	NIL					For continuation, see AIP Finland.

RNAV ROUTES

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Route designator (RNAV/RNP type)	*Name of significant points Coordinates*	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	*Direction of cruising levels* Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
M92 **(RNAV 5)**	Δ NEBSI FIR BDRY 585418N 0205629E	NIL	———		——	——	For continuation, see AIP Estonia.
			43.4	FL 660 / FL 095 Class C	↑	↓	Above FL285 AVBL westbound only.
	Δ DIGOX 590656N 0193610E	NIL	———		——	——	
			31.6	FL 660 / FL 095 Class C	↑	↓	
	Δ ALOLA 591536N 0183706E	NIL	———		——	——	

RNAV ROUTES

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Route designator (RNAV/RNP type) Name of significant points Coordinates		*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
M607 **(RNAV 5)**	Δ PENOR FIR BDRY 553819N 0170941E	NIL	———		——	——	For continuation, see AIP Poland.
			42.1	FL 285 / FL 095 Class C	↑	↓	CDR1 H24
	Δ TESPO 562016N 0171343E	NIL	———		——	——	
			70.0	FL 285 / FL 095 Class C	↑	↓	CDR1 H24
	Δ ARMOD 573003N 0172046E	NIL	———		——	——	
			66.9	FL 660 / FL 095 Class C	↑	↓	CDR1 H24
	Δ INGIS 583640.2N 0172755.4E	NIL	———		——	——	
			10.2	FL 660 / FL 095 Class C	↑	↓	CDR1 H24
	Δ NUGPU 584649N 0172904E	NIL	———		——	——	
			9.5	FL 660 / FL 095 Class C	↑	↓	CDR1 H24
	Δ TROSA DVOR/DME TRS 585616.5N 0173008.3E	NIL	———		——	——	
			87.4	FL 285 / FL 095 Class C	↓		
	Δ RESNA 602201.0N 0180129.4E	NIL	———		——	——	
			39.8	FL 285 / FL 095 Class C	↓		
	Δ ARTAB 610000N 0182517E	NIL	———		——	——	
			52.3	FL 285 / FL 095 Class C	↓		
	Δ RIKPA 614947N 0185800E	NIL	———		——	——	
			60.2	FL 285 / FL 095 Class C	↓		
	Δ EDAXA 624654N 0193756E	NIL	———		——	——	
			30.4	FL 285 / FL 095 Class C	↓		LENSO: Exit point for traffic on P-RNAV STAR to ESNU.
	Δ LENSO 631539.2N 0195908.0E	NIL	———		——	——	
			4.5	FL 285 / FL 095 Class C	↓		UMSOM: Exit point for traffic on conventional STAR to ESNU.
	Δ UMSOM 631955N 0200221E	NIL	———		——	——	
			36.5	FL 285 / FL 095 Class C	↓		
	Δ LAPIX 635421N 0202844E	NIL	———		——	——	
			20.9	FL 285 / FL 095 Class C	↓		
	Δ SOPLI 641403.5N 0204425.8E	NIL	———		——	——	
			48.2	FL 285 / FL 095 Class C	↓		GOSDI: Exit point for traffic on RNAV STAR to ESPA
	Δ GOSDI 645918.6N 0212154.2E	NIL	———		——	——	
			11.2	FL 285 / FL 095 Class C	↓		To avoid ES R58 TEMPO radar vectoring on ATC instructions. Route extension: MAX 2 NM.
	Δ ELBOG 650945.6N 0213053.4E	NIL	———		——	——	

RNAV ROUTES

RNAV 5 represents a navigation accuracy of ±5 NM on a 95 per cent containment basis.

Route designator (RNAV/RNP type)	*Name of significant points Coordinates*	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	*Direction of cruising levels* Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
			46.3	FL 285 / FL 095 Class C	↓		
	Δ BESLA 655127.1N 0221836.9E	NIL					
			41.6	FL 285 / FL 095 Class C	↓	↑	
	Δ MISMO FIR BDRY 661029N 0234910E	NIL					For continuation, see AIP Finland.
M611 **(RNAV 5)**	Δ EVONA FIR BDRY 570954N 0195529E	NIL					For continuation, see AIP Latvia.
			124.7	FL 285 / FL 095 Class C	↑		
	Δ KOLJA 560000N 0164853E	NIL					
			98.9	FL 285 / FL 095 Class C	↑	↓	To avoid ES R55/ES D166 TEMPO radar vectoring on ATC instructions. Route extension: Max 4 NM CDR1 H24
	Δ ELVIX 552443N 0140539E	NIL					
			39.2	FL 285 / FL 095 Class C	↑	↓	CDR1 H24
	Δ MALIV 550945.8N 0130212.7E	NIL					
			10.3	FL 285 / FL 095 Class C	↑	↓	CDR1 H24
	Δ ODARU FIR BDRY 550545N 0124541E	NIL					For continuation, see AIP Denmark.
M736 **(RNAV 5)**	Δ RASMU 564530.2N 0134855.0E	NIL					
			25.4	FL 660 / FL 095 Class C	↓	↑	Above FL285 AVBL eastbound only.
	Δ NEXIL 562020.9N 0134359.2E	NIL					
			41.0	FL 285 / FL 095 Class C	↓	↑	
	Δ MAXUM 553940.5N 0133614.4E	NIL					
			15.1	FL 285 / FL 095 Class C	↓	↑	
	Δ TIDVU 552440.7N 0133327.1E	NIL					
			9.9	FL 285 / FL 095 Class C	↓	↑	
	Δ SIMEG 551500N 0133004E	NIL					
			13.1	FL 660 / FL 095 Class C	↓	↑	Above FL285 AVBL westbound only.
	Δ BALOX 550208N 0132537E	NIL					
			7.3	FL 660 / FL 095 Class C	↓	↑	Above FL285 AVBL westbound only.
	Δ SALLO FIR BDRY 545500.0N 0132310.3E	NIL					For continuation, see AIP Germany.

RNAV ROUTES

RNAV 5 represents a navigation accuracy of ±5 NM on a 95 per cent containment basis.

Route designator (RNAV/RNP type)	*Name of significant points Coordinates*	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	*Direction of cruising levels* Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
M743 **(RNAV 5)**	Δ TIDVU 552440.7N 0133327.1E	NIL					
			20.0	FL 660 / FL 095 Class C		↑	To avoid ES R55 TEMPO radar vectoring on ATC instruction. Route extension: 2 NM
	Δ ROXUB 551547N 0140448E	NIL					
			26.2	FL 660 / FL 095 Class C		↑	To avoid ES R55 TEMPO radar vectoring on ATC instruction. Route extension: 2 NM
	Δ RØNNE VOR ROE 550356.08N 0144531.29E	NIL					
M745 **(RNAV 5)**	Δ AGMOL 644313N 0150554E	NIL					
			168.7	FL 285 / FL 195 Class C	↓	↑	To avoid ES R02 TEMPO radar vectoring on ATC instruction. Route extension: Max 5 NM. CDR1 H24
	Δ DEXOP 665626N 0191619E	NIL					
			32.1	FL 285 / FL 095 Class C	↓	↑	To avoid ES R02 TEMPO radar vectoring on ATC instruction. Route extension: Max 5 NM. CDR1 H24
	Δ VAGAS 672057.2N 0200907.7E	NIL					
			43.0	FL 285 / FL 095 Class C	↓	↑	CDR1 H24
	Δ EMLET 674500N 0214154E	NIL					
			43.7	FL 285 / FL 095 Class C	↓	↑	
	Δ DOPUD FIR BDRY 680829N 0231918E	NIL					For continuation, see AIP Finland.
M851 **(RNAV 5)**	Δ ALOLA 591536N 0183706E	NIL					
			16.5	FL 660 / FL 095 Class C	↓		
	Δ APTUG 591936N 0190820E	NIL					
			39.7	FL 660 / FL 095 Class C	↓		
	Δ NISIX FIR BDRY 591907N 0202554E	NIL					For continuation, see AIP Finland.

RNAV ROUTES

RNAV 5 represents a navigation accuracy of ±5 NM on a 95 per cent containment basis.

Route designator (RNAV/RNP type) Name of significant points Coordinates		*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
M852 **(RNAV 5)**	Δ VADIN FIR BDRY 570816.0N 0113838.0E	NIL	———		——	——	For continuation, see AIP Denmark.
			18.6	FL 285 / FL 095 Class C	↓	↑	Eastbound AVBL above FL245 only.
	Δ GIXUN 572516N 0115209E	NIL	———		——	——	
			8.8	FL 285 / FL 095 Class C	↓	↑	Eastbound AVBL above FL245 only.
	Δ ELBUX 573318.6N 0115836.7E	NIL	———		——	——	
			14.6	FL 285 / FL 095 Class C	↓	↑	
	Δ LALIL 574625N 0121038E	NIL	———		——	——	
			32.1	FL 285 / FL 095 Class C	↓	↑	
	Δ NEGIL 581504.8N 0123731.2E	NIL	———		——	——	
			35.0	FL 660 / FL 095 Class C	↓	↑	OGIRO: Entry/exit point for traffic from/to ESOK.
	Δ OGIRO 584614N 0130740E	NIL	———		——	——	
			86.6	FL 285 / FL 095 Class C	↓	↑	OGIRO: Entry/exit point for traffic from/to ESOK. LEGPO: Entry/exit point for traffic from/to ESSD.
	Δ LEGPO 600246N 0142618E	NIL	———		——	——	
			141.6	FL 285 / FL 095 Class C	↓	↑	LEGPO: Entry/exit point for traffic from/to ESSD.
	Δ DEGED 620601N 0164844E	NIL	———		——	——	
			63.9	FL 285 / FL 095 Class C	↓	↑	GAJPA: Entry/exit point for traffic from/to ESNU.
	Δ GAJPA 630013.5N 0180104.9E	NIL	———		——	——	
			56.7	FL 285 / FL 095 Class C	↓	↑	GAJPA: Entry/exit point for traffic from/to ESNU.
	Δ RASEN 634843N 0190551E	NIL	———		——	——	
			8.4	FL 285 / FL 095 Class C	↓	↑	
	Δ MOTIG 635548N 0191604E	NIL	———		——	——	
			27.6	FL 285 / FL 095 Class C	↓	↑	
	Δ AMPAD 641856N 0195004E	NIL	———		——	——	
			54.5	FL 285 / FL 095 Class C	↓	↑	TIMOB: Exit point for traffic on RNAV STAR to ESPA
	Δ TIMOB 650411.4N 0210005.1E	NIL	———		——	——	
			10.9	FL 285 / FL 095 Class C	↓	↑	TIMOB: Exit point for traffic on RNAV STAR to ESPA
	Δ RISEM 651308.6N 0211431.6E	NIL	———		——	——	
			46.8	FL 285 / FL 095 Class C	↓	↑	
	Δ BESLA 655127.1N 0221836.9E	NIL	———		——	——	
			40.7	FL 285 / FL 095 Class C	↓	↑	CDR1 H24

RNAV ROUTES

RNAV 5 represents a navigation accuracy of ±5 NM on a 95 per cent containment basis.

Route designator (RNAV/RNP type)	*Name of significant points Coordinates*	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
	Δ ASKEB 662422N 0231658E	NIL					
			24.6	FL 285 / FL 095 Class C	↓	↑	CDR1 H24
	Δ PERKE FIR BDRY 664407N 0235332E	NIL					For continuation, see AIP Finland.
M864 **(RNAV 5)**	Δ NINTA FIR BDRY 561344N 0181708E	NIL					For continuation, see AIP Lithuania.
			10.7	FL 285 / FL 095 Class C	↑	↓	
	Δ DIPEB 561057N 0175835E	NIL					
			40.6	FL 285 / FL 095 Class C	↑	↓	
	Δ KOLJA 560000N 0164853E	NIL					
			51.0	FL 285 / FL 095 Class C	↑	↓	
	Δ ETRUS 552824N 0153805E	NIL					
			48.9	FL 285 / FL 095 Class C		↓	To avoid ES D138 TEMPO radar vectoring on ATC instruction. Route extension: 3 NM
	Δ GIROR 550336N 0142424E	NIL					
			16.6	FL 285 / FL 095 Class C		↓	To avoid ES D140 TEMPO radar vectoring on ATC instruction. Route extension: None
	Δ UNGAV FIR BDRY 545500N 0135941E	NIL					For continuation, see AIP Germany.
M865 **(RNAV 5)**	Δ RØNNE VOR ROE 550356.08N 0144531.29E	NIL					
			61.3	FL 285 / FL 095 Class C	↓	↑	
	Δ LARMA FIR BDRY 551628N 0163006E	NIL					For continuation, see AIP Poland.
M990 **(RNAV 5)**	Δ KOLJA 560000N 0164853E	NIL					
			30.2	FL 285 / FL 245 Class C	↓	↑	
	Δ GISON FIR BDRY 555554N 0174206E	NIL					For continuation, see AIP Russia.

RNAV ROUTES

RNAV 5 represents a navigation accuracy of ±5 NM on a 95 per cent containment basis.

Route designator (RNAV/RNP type) Name of significant points Coordinates		*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
M996 **(RNAV 5)**	Δ SUVAR FIR BDRY 610905N 0124310E	NIL	———		——	——	For continuation, see AIP Norway.
			53.2	FL 285 / FL 095 Class C	↓	↑	GEVRU: Entry/exit point for traffic from/to ESKS.
	Δ GEVRU 604434N 0141947E	NIL	———		——	——	
			40.2	FL 285 / FL 095 Class C	↓	↑	GEVRU: Entry/exit point for traffic from/to ESKS.
	Δ BORLÄNGE VOR/DME BOR 602517.4N 0153109.1E	NIL	———		——	——	
			33.1	FL 285 / FL 095 Class C	↓	↑	
	Δ PERAX 600434N 0162253E	NIL	———		——	——	
			23.8	FL 285 / FL 095 Class C	↓	↑	
	Δ ELTOK 594928.0N 0165923.7E	NIL	———		——	——	
			55.6	FL 285 / FL 095 Class C	↓	↑	
	Δ TROSA DVOR/DME TRS 585616.5N 0173008.3E	NIL	———		——	——	
			7.0	FL 660 / FL 095 Class C	↓	↑	Below FL285 flight level change over TRS. Southbound traffic even and northbound traffic odd FL.
	Δ APZER 584942N 0173438E	NIL	———		——	——	
			14.7	FL 660 / FL 095 Class C	↓	↑	Below FL285 southbound traffic even and northbound traffic odd FL. DISRU: Entry/exit point for traffic from/to ESKN.
	Δ DISRU 583550N 0174401E	NIL	———		——	——	
			25.7	FL 660 / FL 095 Class C	↓	↑	Below FL285 southbound traffic even and northbound traffic odd FL. DISRU: Entry/exit point for traffic from/to ESKN.
	Δ ROGMI 581137.6N 0180006.3E	NIL	———		——	——	
			34.0	FL 285 / FL 095 Class C	↑	↓	
	Δ VISBY VOR/DME VSB 573934.3N 0182048.7E	NIL	———		——	——	
			61.8	FL 285 / FL 095 Class C	↓	↑	
	Δ GELDA FIR BDRY 565217N 0193400E	NIL	———		——	——	For continuation, see AIP Latvia.
N3 **(RNAV 5)**	Δ MOTIG 635548N 0191604E	NIL	———		——	——	
			20.3	FL 660 / FL 285 Class C	↑	↓	CDR1 H24
	Δ TUDGI 640849N 0184044E	NIL	———		——	——	
			99.6	FL 660 / FL 285 Class C	↑	↓	CDR1 H24
	Δ VESER 651120N 0154047E	NIL	———		——	——	
			14.7	FL 660 / FL 285 Class C	↑	↓	CDR1 H24
	Δ TIXOR 652013N 0151301E	NIL	———		——	——	

RNAV ROUTES

RNAV 5 represents a navigation accuracy of ±5 NM on a 95 per cent containment basis.

Route designator (RNAV/RNP type)	*Name of significant points Coordinates*	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
N5 (RNAV 5)	Δ BAKLA FIR BDRY 612145N 0192457E	NIL					For continuation, see AIP Finland.
			36.6	FL 285 / FL 095 Class C	↑	↓	
	Δ SIPRI 605044N 0184506E	NIL					
			35.7	FL 660 / FL 095 Class C		↓	
	Δ HAMMAR DVOR/DME HMR 601645.2N 0182329.6E	NIL					
			52.4	FL 660 / FL 095 Class C	↓		Flight level change over HMR.
	Δ BABAP 592520.2N 0184227.5E	NIL					
			28.8	FL 660 / FL 095 Class C	↓		
	Δ ODIBI 585707N 0185232E	NIL					
			127.1	FL 285 / FL 095 Class C	↓		To avoid ES R71 and ES D175 TEMPO radar vectoring on ATC instruction. Route extension 4 NM.
	Δ GELDA FIR BDRY 565217N 0193400E	NIL					For continuation, see AIP Latvia.
N15 (RNAV 5)	Δ ERNOV 561007.9N 0123425.6E	NIL					
			49.3	FL 660 / FL 095 Class C		↓	
	Δ LASLI 565542N 0120042E	NIL					
			6.9	FL 285 / FL 095 Class C		↓	Flight level change over RISMA.
	Δ RISMA 570231.0N 0115845.0E	NIL					
			42.9	FL 285 / FL 095 Class C	↓		
	Δ DEGAV 574341N 0122025E	NIL					
			32.8	FL 285 / FL 095 Class C	↓		NEGIL: Exit point for traffic to ESOK.
	Δ NEGIL 581504.8N 0123731.2E	NIL					
			132.7	FL 285 / FL 245 Class C	↓	↑	CDR1 H24
	Δ MILNU 595837N 0151801E	NIL					
			80.9	FL 285 / FL 245 Class C	↓	↑	
	Δ UMLAX 610000N 0170411E	NIL					
			115.9	FL 285 / FL 245 Class C	↓	↑	
	Δ BODRI FIR BDRY 622454N 0194927E	NIL					For continuation, see AIP Finland.

RNAV ROUTES

RNAV 5 represents a navigation accuracy of ±5 NM on a 95 per cent containment basis.

Route designator (RNAV/RNP type) Name of significant points Coordinates		*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
N33 **(RNAV 5)**	Δ BIKRU FIR BDRY 545500N 0141000E	NIL					For continuation, see AIP Germany.
			29.9	FL 285 / FL 245 Class C	↓	↑	
	Δ ELVIX 552443N 0140539E	NIL					
			46.8	FL 285 / FL 095 Class C	↓	↑	To avoid ES R55A/ES R34 TEMPO radar vectoring on ATC instruction. Route extension: 2 NM CDR1 H24
	Δ ETPIG 561115N 0141254E	NIL					
			34.8	FL 660 / FL 095 Class C	↓	↑	Above FL285 AVBL westbound only. CDR1 H24
	Δ DEKIK 564552N 0141828E	NIL					
			23.8	FL 660 / FL 095 Class C		↑	CDR1 H24
	Δ NEMBA 570931N 0142214E	NIL					
N133 **(RNAV 5)**	Δ SOLKA FIR BDRY 631951N 0120309E	NIL					For continuation, see AIP Norway.
			36.6	FL 285 / FL 115 Class C	↓	↑	
	Δ MAVIP 625624N 0130456E	NIL					
			33.0	FL 285 / FL 195 Class C	↓		
	Δ OVDAL 622343N 0131205E	NIL					
			104.6	FL 285 / FL 195 Class C	↓	↑	To avoid ES R13 TEMPO radar vectoring on ATC instructions. Route extension: Max 3 NM
	Δ GEVRU 604434N 0141947E	NIL					

RNAV ROUTES

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Route designator (RNAV/RNP type) Name of significant points Coordinates		*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
N150 **(RNAV 5)**	Δ EGAGO FIR BDRY 614033N 0121300E	NIL					For continuation, see AIP Norway.
			79.8	FL 285 / FL 195 Class C	↓	↑	
	Δ MAVIP 625624N 0130456E	NIL					
			70.9	FL 285 / FL 195 Class C	↓	↑	
	Δ NETAV 635947N 0141437E	NIL					
			32.9	FL 285 / FL 195 Class C	↓	↑	
	Δ NUGTA 642902N 0144849E	NIL					
			16.0	FL 660 / FL 195 Class C	↓	↑	CDR1 H24
	Δ AGMOL 644313N 0150554E	NIL					
			31.9	FL 660 / FL 195 Class C	↓	↑	CDR1 H24
	Δ VESER 651120N 0154047E	NIL					
			59.1	FL 660 / FL 195 Class C	↓	↑	CDR1 H24
	Δ OSTAX 660307N 0164853E	NIL					
			39.3	FL 660 / FL 195 Class C	↓	↑	CDR1 H24
	Δ UPEVA 663714N 0173644E	NIL					
			77.8	FL 660 / FL 195 Class C	↓	↑	CDR1 H24
	Δ OGRIN 674358N 0191809E	NIL					
			41.6	FL 660 / FL 195 Class C	↓	↑	To avoid ES R01 TEMPO radar vectoring on ATC instruction. Route extension: MAX 10 NM CDR1 H24
	Δ PEMAB 681911N 0201625E	NIL					
			16.1	FL 285 / FL 195 Class C	↓	↑	To avoid ES R01 TEMPO radar vectoring on ATC instruction. Route extension: MAX 10 NM CDR1 H24
	Δ NOVRI 683242N 0203944E	NIL					
			20.6	FL 285 / FL 195 Class C	↓	↑	To avoid ES R01 TEMPO radar vectoring on ATC instruction. Route extension: MAX 10 NM
	Δ OGLAV FIR BDRY 684959N 0211022E	NIL					For continuation, see AIP Finland.

RNAV ROUTES

RNAV 5 represents a navigation accuracy of ±5 NM on a 95 per cent containment basis.

Route designator (RNAV/RNP type) Name of significant points Coordinates		*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
N195 **(RNAV 5)**	Δ TOPLA 570809.1N 0122020.2E	NIL					
			119.1	FL 285 / FL 095 Class C	↓		To avoid ES R41A and ES R55A TEMPO radar vectoring on ATC instructions. Route extension: Max 1 NM. CDR1 H24
	Δ ELVIX 552443N 0140539E	NIL					
			30.3	FL 285 / FL 095 Class C	↓		To avoid ES R55A TEMPO radar vectoring on ATC instruction. Route extension: 1 NM
	Δ KEKOV 545658N 0142628E	NIL					
			19.0	FL 285 / FL 095 Class C	↓		
	Δ KOLOB FIR BDRY 544923N 0145639E	NIL					For continuation, see AIP Poland.
N197 **(RNAV 5)**	Δ NEREN FIR BDRY 583740N 0204618E	NIL					For continuation, see AIP Estonia.
			185.9	FL 285 / FL 095 Class C	↑	↓	To avoid ES R28 TEMPO radar vectoring on ATC instruction. Route extension: 1 NM CDR1 H24
	Δ KALMAR VOR/DME KAL 564107.2N 0161702.8E	NIL					
N607 **(RNAV 5)**	Δ MAKUR FIR BDRY 572547.0N 0112425.0E	NIL					For continuation, see AIP Denmark.
			19.9	FL 285 / FL 095 Class C	↓		
	Δ ELBUX 573318.6N 0115836.7E	NIL					
			105.6	FL 285 / FL 095 Class C	↓		LURAR: Exit point for traffic to ESSL, ESCF, ESSP and ESKN. CDR1 H24
	Δ LURAR 581906N 0145704E	NIL					
N616 **(RNAV 5)**	Δ NEKET FIR BDRY 581816N 0203443E	NIL					For continuation, see AIP Latvia.
			64.0	FL 285 / FL 095 Class C		↓	
	Δ TOMBU 591346.0N 0193404.2E	NIL					
			29.9	FL 660 / FL 095 Class C		↓	
	Δ XILAN 593933.5N 0190433.8E	NIL					

RNAV ROUTES

RNAV 5 represents a navigation accuracy of ±5 NM on a 95 per cent containment basis.

Route designator (RNAV/RNP type)	*Name of significant points Coordinates*	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
N623 **(RNAV 5)**	Δ NEKET FIR BDRY 581816N 0203443E	NIL					For continuation, see AIP Latvia.
			4.4	FL 285 / FL 095 Class C	↑	↓	
	Δ INSUK 582127N 0202852E	NIL					
			54.3	FL 285 / FL 095 Class C	↑	↓	
	Δ NEKLA 590000.0N 0191549.1E	NIL					
			45.7	FL 285 / FL 095 Class C	↑	↓	
	Δ TEBBY DVOR/DME TEB 593154.1N 0181211.9E	NIL					
			47.5	FL 285 / FL 095 Class C		↓	
	Δ AROS DVOR/DME ARS 593510.4N 0163901.2E	NIL					
			13.2	FL 660 / FL 095 Class C		↓	
	Δ BEDLA 593744N 0161330E	NIL					
			25.8	FL 660 / FL 095 Class C		↓	
	Δ IBGAX 594320N 0152345E	NIL					
			22.8	FL 285 / FL 095 Class C		↓	EBURI: Exit point for traffic to ESOK
	Δ EBURI 594800N 0143938E	NIL					
			59.7	FL 660 / FL 095 Class C		↓	EBURI: Exit point for traffic to ESOK
	Δ TEKVA 595905N 0124310E	NIL					
			10.0	FL 660 / FL 095 Class C		↓	
	Δ ESEBA FIR BDRY 600046N 0122332E	NIL					For continuation, see AIP Norway.
N624 **(RNAV 5)**	Δ KOLJA 560000N 0164853E	NIL					
			228.3	FL 285 / FL 245 Class C		↑	
	Δ KOSKA FIR BDRY 591058N 0204034E	NIL					For continuation, see AIP Finland.
N746 **(RNAV 5)**	Δ GORPI FIR BDRY 545500N 0153918E	NIL					For continuation, see AIP Poland.
			76.2	FL 285 / FL 195 Class C	↓	↑	To avoid ES D139 TEMPO radar vectoring on ATC instructions. Route extension: Max 3 NM
	Δ KOLJA 560000N 0164853E	NIL					
			24.6	FL 285 / FL 195 Class C	↓		
	Δ TESPO 562016N 0171343E	NIL					
			201.6	FL 285 / FL 245 Class C	↓		ALAMI is a "fly over" point.
	Δ ALAMI FIR BDRY 590252N 0205457E	NIL					For continuation, see AIP Finland.

RNAV ROUTES

RNAV 5 represents a navigation accuracy of ±5 NM on a 95 per cent containment basis.

Route designator (RNAV/RNP type) Name of significant points Coordinates		*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
N850 **(RNAV 5)**	Δ ELRID 593409N 0182718E	NIL					
			47.4	FL 285 / FL 095 Class C		↓	
	Δ NOSLI 590422.0N 0171529.2E	NIL					
			36.2	FL 660 / FL 095 Class C		↓	
	Δ TONSA 583632.9N 0163112.9E	NIL					
			48.0	FL 660 / FL 095 Class C		↓	TONSA: Entry point for traffic from ESKN.
	Δ ABAMA 575912N 0153411E	NIL					
			26.0	FL 660 / FL 095 Class C		↓	MOKNI: Exit point for traffic to ESMX.
	Δ MOKNI 573847N 0150405E	NIL					
			37.0	FL 660 / FL 095 Class C		↓	
	Δ NEMBA 570931N 0142214E	NIL					
			9.0	FL 285 / FL 095 Class C		↓	GELMA: Exit point for traffic to ESMK.
	Δ GELMA 570223N 0141213E	NIL					
			21.2	FL 285 / FL 095 Class C		↓	
	Δ RASMU 564530.2N 0134855.0E	NIL					
			57.5	FL 285 / FL 095 Class C		↓	RASMU: Entry point for traffic from ESGJ/ESMX.
	Δ REKMO 555922N 0124724E	NIL					
			6.7	FL 285 / FL 095 Class C		↓	
	Δ MISBI FIR BDRY 555355N 0124021E	NIL					For continuation, see AIP Denmark.

RNAV ROUTES

RNAV 5 represents a navigation accuracy of ±5 NM on a 95 per cent containment basis.

Route designator (RNAV/RNP type) Name of significant points Coordinates		*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
N851 **(RNAV 5)**	Δ LEBDA FIR BDRY 552225N 0123743E	NIL					For continuation, see AIP Denmark.
			12.2	FL 285 / FL 095 Class C	↓		
	Δ MOSIN 553310N 0124753E	NIL					
			17.3	FL 285 / FL 095 Class C	↓		
	Δ GORAX 554822N 0130226E	NIL					
			23.8	FL 285 / FL 095 Class C	↓		
	Δ KEMAX 560735N 0132714E	NIL					
			15.8	FL 660 / FL 095 Class C	↓		
	Δ NEXIL 562020.9N 0134359.2E	NIL					
			16.8	FL 660 / FL 095 Class C	↓		ROXEN: Exit point for traffic to ESGJ.
	Δ ROXEN 563352N 0140200E	NIL					
			15.1	FL 285 / FL 095 Class C	↓		ROXEN: Entry point for traffic from ESMK.
	Δ DEKIK 564552N 0141828E	NIL					
			11.7	FL 285 / FL 095 Class C	↓		
	Δ VEPIP 565513N 0143111E	NIL					
			33.1	FL 285 / FL 095 Class C	↓		
	Δ BEDOS 572135N 0150750E	NIL					
			17.0	FL 660 / FL 095 Class C	↓		BEDOS: Entry point for traffic from ESTA/ESMT.
	Δ NEFYN 573502N 0152703E	NIL					
			24.6	FL 660 / FL 095 Class C	↓		MIKNA: Exit point for traffic to ESSL/ESSP.
	Δ MIKNA 575425N 0155519E	NIL					
			28.5	FL 660 / FL 095 Class C	↓		
	Δ PELUP 581643.8N 0162840.5E	NIL					
			51.0	FL 660 / FL 095 Class C	↓		PELUP: Entry point for traffic from ESGJ.
	Δ TROSA DVOR/DME TRS 585616.5N 0173008.3E	NIL					
			62.4	FL 285 / FL 095 Class C	↓		
	Δ TOVRI 594459.3N 0184600.6E	NIL					
			23.5	FL 660 / FL 095 Class C	↓		To avoid ES R15 TEMPO radar vectoring on ATC instructions. Route extension: Max 2 NM
	Δ RIKUM FIR BDRY 595815N 0192429E	NIL					For continuation, see AIP Finland.

RNAV ROUTES

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Route designator (RNAV/RNP type)	*Name of significant points Coordinates*	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	*Direction of cruising levels* Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
N866 **(RNAV 5)**	Δ BEDLA 593744N 0161330E	NIL					
			11.5	FL 660 / FL 095 Class C		↓	
	Δ TABUT 593109N 0155501E	NIL					
			33.8	FL 660 / FL 095 Class C		↓	
	Δ DEPEX 591131N 0150121E	NIL					
			27.6	FL 660 / FL 095 Class C		↓	
	Δ LAPSI 585514N 0141820E	NIL					
			38.9	FL 285 / FL 095 Class C		↓	
	Δ MOXAM 583152.9N 0131850.1E	NIL					
			27.5	FL 285 / FL 095 Class C		↓	
	Δ NEGIL 581504.8N 0123731.2E	NIL					
			57.5	FL 285 / FL 095 Class C	↑	↓	NEGIL: Entry point for traffic from ESOK.
	Δ INVOL FIR BDRY 573916N 0111317E	NIL					For continuation, see AIP Denmark.

RNAV ROUTES

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Route designator (RNAV/RNP type) Name of significant points Coordinates	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1	2	3	4	5		6
N872 (RNAV 5)						
Δ RUNGA FIR BDRY 594459N 0194327E	NIL	———		——	——	For continuation, see AIP Finland.
		20.4	FL 660 / FL 095 Class C		↓	
Δ XILAN 593933.5N 0190433.8E	NIL	———		——	——	
		19.7	FL 285 / FL 095 Class C		↓	
Δ ELRID 593409N 0182718E	NIL	———		——	——	
		8.0	FL 285 / FL 095 Class C		↓	
Δ TEBBY DVOR/DME TEB 593154.1N 0181211.9E	NIL	———		——	——	
		41.5	FL 285 / FL 095 Class C		↓	
Δ PETEV 591225.8N 0170043.5E	NIL	———		——	——	
		23.7	FL 660 / FL 095 Class C		↓	
Δ TIPIX 585416.9N 0163127.1E	NIL	———		——	——	
		13.5	FL 660 / FL 095 Class C		↓	
Δ LIBSI 584352.6N 0161458.6E	NIL	———		——	——	
		25.6	FL 660 / FL 095 Class C		↓	
Δ KOXIM 582401N 0154408E	NIL	———		——	——	
		23.5	FL 660 / FL 095 Class C		↓	ELPAX: Exit point for traffic to ESGJ.
Δ ELPAX 580544N 0151624E	NIL	———		——	——	
		71.6	FL 660 / FL 095 Class C		↓	ELPAX: Entry point for traffic from ESSP/ESSL. TOKSI: Exit point for traffic to ESMT. To avoid ES R30 TEMPO radar vectoring on ATC instruction. Route extension:Max 2 NM
Δ TOKSI 570920.1N 0135439.7E	NIL	———		——	——	
		32.1	FL 660 / FL 095 Class C		↓	To avoid ES R50 TEMPO radar vectoring on ATC instruction. Route extension: Max 2 NM TOKSI: Entry point for traffic from ESGJ.
Δ NILEN 564344.3N 0131918.6E	NIL	———		——	——	
		6.6	FL 660 / FL 095 Class C		↓	To avoid ES R50 TEMPO radar vectoring on ATC instruction. Route extension: Max 2 NM
Δ MISMA 563828.5N 0131210.1E	NIL	———		——	——	
		35.3	FL 660 / FL 095 Class C		↓	To avoid ES R50 TEMPO radar vectoring on ATC instruction. Route extension: Max 2 NM
Δ ERNOV 561007.9N 0123425.6E	NIL	———		——	——	
		3.3	FL 285 / FL 095 Class C		↓	
Δ KOPIM FIR BDRY 560802N 0122954E	NIL	———		——	——	For continuation, see AIP Denmark.

RNAV ROUTES

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Route designator (RNAV/RNP type) Name of significant points Coordinates	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1	2	3	4	5		6
N873 **(RNAV 5)**						
Δ LOBBI FIR BDRY 571905.0N 0112953.0E	NIL					For continuation, see AIP Denmark.
		21.1	FL 285 / FL 095 Class C	↓		
Δ ELBUX 573318.6N 0115836.7E	NIL					
		15.7	FL 285 / FL 095 Class C	↓		
Δ DEGAV 574341N 0122025E	NIL					
		40.4	FL 285 / FL 095 Class C	↓		
Δ LABAN 581009.8N 0131739.5E	NIL					
		40.1	FL 660 / FL 095 Class C	↓		DETSO: Exit point for traffic to ESOE.
Δ DETSO 583600N 0141552E	NIL					
		57.2	FL 660 / FL 095 Class C	↓		DETSO: Entry point for traffic from ESGT/ESIB.
Δ PELIT 591202N 0154116E	NIL					
		20.6	FL 660 / FL 095 Class C	↓		
Δ TORVA 592445N 0161243E	NIL					
		17.0	FL 660 / FL 095 Class C	↓		
Δ AROS DVOR/DME ARS 593510.4N 0163901.2E	NIL					
		24.6	FL 285 / FL 095 Class C	↓		
Δ LINSA 594328N 0172442E	NIL					
		60.3	FL 285 / FL 095 Class C	↓		To avoid ES R15 TEMPO radarvectoring on ATC instructions. Route extension: Max 6 NM
Δ DODAM FIR BDRY 600240N 0191806E	NIL					For continuation, see AIP Finland.
N983 **(RNAV 5)**						
Δ RØNNE VOR ROE 550356.08N 0144531.29E	NIL					
		15.8	FL 285 / FL 095 Class C	↓	↑	To avoid EK R95/R96 TEMPO radar vectoring on ATC instruction. Route extension: 2 NM
Δ AMROR FIR BDRY 545324N 0150550E	NIL					For continuation, see AIP Poland.
P12 **(RNAV 5)**						
Δ DETNI FIR BDRY 545500N 0142039E	NIL					For continuation, see AIP Germany.
		16.9	FL 285 / FL 095 Class C	↓		
Δ RØNNE VOR ROE 550356.08N 0144531.29E	NIL					
		38.8	FL 285 / FL 095 Class C	↓	↑	To avoid ES D138 TEMPO radar vectoring on ATC instructions. Route extension: Max 3 NM
Δ ETRUS 552824N 0153805E	NIL					

RNAV ROUTES

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Route designator (RNAV/RNP type) Name of significant points Coordinates		*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
P156 **(RNAV 5)**	Δ BABAP 592520.2N 0184227.5E	NIL					
			30.6	FL 660 / FL 095 Class C	↓		
	Δ NEKLA 590000.0N 0191549.1E	NIL					
			68.8	FL 285 / FL 095 Class C	↓		
	Δ RASEL FIR BDRY 580141N 0202453E	NIL					For continuation, see AIP Latvia.
P600 **(RNAV 5)**	Δ GILEN FIR BDRY 680139N 0170604E	NIL					For continuation, see AIP Norway.
			46.6	FL 660 / FL 195 Class C		↓	
	Δ LIVLI 671543N 0164848E	NIL					
			83.6	FL 660 / FL 195 Class C		↓	
	Δ BAMIP 655647N 0154142E	NIL					
			38.6	FL 660 / FL 195 Class C		↓	
	Δ TIXOR 652013N 0151301E	NIL					
			45.8	FL 660 / FL 195 Class C		↓	
	Δ ATLEM 643642N 0144040E	NIL					
			38.7	FL 660 / FL 195 Class C		↓	
	Δ NETAV 635947N 0141437E	NIL					
			100.4	FL 660 / FL 195 Class C		↓	
	Δ OVDAL 622343N 0131205E	NIL					
			56.0	FL 660 / FL 195 Class C		↓	
	Δ XELVI FIR BDRY 612959N 0124005E	NIL					For continuation, see AIP Norway.
P605 **(RNAV 5)**	Δ MOSAT FIR BDRY 550231N 0124717E	NIL					For continuation, see AIP Denmark.
			11.2	FL 285 / FL 095 Class C	↓		
	Δ MALIV 550945.8N 0130212.7E	NIL					
			23.3	FL 285 / FL 095 Class C	↓		
	Δ TIDVU 552440.7N 0133327.1E	NIL					
			25.9	FL 660 / FL 095 Class C	↓	↑	Above FL285 AVBL westbound only.
	Δ EKRAL 554636.4N 0135746.2E	NIL					
			26.1	FL 660 / FL 095 Class C	↓	↑	CDR1 H24
	Δ ETPIG 561115N 0141254E	NIL					

RNAV ROUTES

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Route designator (RNAV/RNP type) Name of significant points Coordinates		*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
P606 **(RNAV 5)**	Δ KALMAR VOR/DME KAL 564107.2N 0161702.8E	NIL					
			66.5	FL 285 / FL 095 Class C	↓		
	Δ OLANU 572808N 0174307E	NIL					
			138.9	FL 285 / FL 095 Class C	↓		To avoid ES R28 TEMPO radar vectoring on ATC instruction. Route extension: Max 6 NM ALAMI is a "fly over" point
	Δ ALAMI FIR BDRY 590252N 0205457E	NIL					For continuation, see AIP Finland.
P607 **(RNAV 5)**	Δ ROGED FIR BDRY 603046N 0123624E	NIL					For continuation, see AIP Norway.
			137.7	FL 285 / FL 095 Class C	↓		
	Δ ELTOK 594928.0N 0165923.7E	NIL					
			14.1	FL 285 / FL 095 Class C	↓	↑	
	Δ LINSA 594328N 0172442E	NIL					
			26.8	FL 285 / FL 095 Class C	↓	↑	
	Δ TEBBY DVOR/DME TEB 593154.1N 0181211.9E	NIL					
			16.8	FL 285 / FL 095 Class C	↓	↑	
	Δ BABAP 592520.2N 0184227.5E	NIL					
			14.4	FL 660 / FL 095 Class C	↓	↑	Above FL285 AVBL eastbound only.
	Δ APTUG 591936N 0190820E	NIL					
			14.4	FL 660 / FL 095 Class C	↓	↑	Above FL285 AVBL eastbound only.
	Δ TOMBU 591346.0N 0193404.2E	NIL					
			46.8	FL 285 / FL 095 Class C	↓	↑	
	Δ NEBSI FIR BDRY 585418N 0205629E	NIL					For continuation, see AIP Estonia.

RNAV ROUTES

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Route designator (RNAV/RNP type)	*Name of significant points Coordinates*	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
P609 **(RNAV 5)**	Δ VATEX FIR BDRY 591903N 0114914E	NIL					For continuation, see AIP Norway.
			4.3	FL 660 / FL 095 Class C	↓	↑	CDR1 H24
	Δ OKSAT 591946N 0115726E	NIL					
			42.7	FL 660 / FL 095 Class C	↓	↑	Above FL285 AVBL eastbound only. CDR1 H24
	Δ KARLSTAD VOR/DME KSD 592632.8N 0131953.6E	NIL					
			89.1	FL 660 / FL 095 Class C	↓	↑	To avoid ES R18 TEMPO radar vectoring on ATC instruction. Route extension 1 NM Above FL285 AVBL westbound only. CDR1 H24
	Δ BEDLA 593744N 0161330E	NIL					
			20.6	FL 285 / FL 095 Class C	↓	↑	
	Δ ARGIB 595053N 0164441E	NIL					
			49.5	FL 285 / FL 095 Class C	↓	↑	
	Δ RESNA 602201.0N 0180129.4E	NIL					
			35.9	FL 285 / FL 095 Class C	↓	↑	
	Δ SIPRI 605044N 0184506E	NIL					
			36.6	FL 285 / FL 095 Class C	↓	↑	
	Δ BAKLA FIR BDRY 612145N 0192457E	NIL					For continuation, see AIP Finland.
P739 **(RNAV 5)**	Δ DEREX FIR BDRY 574022N 0201239E	NIL					For continuation, see AIP Latvia.
			150.5	FL 285 / FL 095 Class C		↓	
	Δ KOLJA 560000N 0164853E	NIL					
P850 **(RNAV 5)**	Δ ROGED FIR BDRY 603046N 0123624E	NIL					For continuation, see AIP Norway.
			69.8	FL 285 / FL 245 Class C	↓	↑	
	Δ DIKVI 611744N 0142147E	NIL					
			38.4	FL 285 / FL 245 Class C	↓	↑	
	Δ ETOMI 614257N 0152159E	NIL					
			107.2	FL 285 / FL 245 Class C	↓	↑	
	Δ GAJPA 630013.5N 0180104.9E	NIL					

RNAV ROUTES

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Route designator (RNAV/RNP type)	*Name of significant points Coordinates*	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
P854 **(RNAV 5)**	Δ LAMPI FIR BDRY 633219N 0210212E	NIL					For continuation, see AIP Finland.
			11.7	FL 285 / FL 095 Class C	↑	↓	
	Δ ROSMO 634159N 0204739E	NIL					
			15.0	FL 285 / FL 095 Class C	↑	↓	
	Δ LAPIX 635421N 0202844E	NIL					
P855 **(RNAV 5)**	Δ TOGMI FIR BDRY 614543N 0193225E	NIL					For continuation, see AIP Finland.
			228.3	FL 285 / FL 245 Class C	↑	↓	
	Δ SOLKA FIR BDRY 631951N 0120309E	NIL					For continuation, see AIP Norway.
P862 **(RNAV 5)**	Δ EVONA FIR BDRY 570954N 0195529E	NIL					For continuation, see AIP Latvia.
			260.4	FL 285 / FL 095 Class C	↑		To avoid ES R34, ES R55, ES R63, ES R64 and ES D164-166 TEMPO radar vectoring on ATC instruction. Route extension: Max 4 NM CDR1 H24
	Δ MALIV 550945.8N 0130212.7E	NIL					
P863 **(RNAV 5)**	Δ DEREX FIR BDRY 574022N 0201239E	NIL					For continuation, see AIP Latvia.
			199.5	FL 285 / FL 095 Class C		↓	CDR1 H24
	Δ KOTAM 560758N 0145012E	NIL					
P998 **(RNAV 5)**	Δ SUTEV FIR BDRY 643314N 0224416E	NIL					For continuation, see AIP Finland.
			61.3	FL 285 / FL 095 Class C	↑	↓	CDR1 H24
	Δ LULEÅ VOR/DME SLU 653224.8N 0220803.3E	NIL					
Q44 **(RNAV 5)**	Δ KEMAX 560735N 0132714E	NIL					
			35.0	FL 660 / FL 095 Class C	↓		CDR1 H24
	Δ IDPAL 562738N 0141841E	NIL					
			246.1	FL 285 / FL 095 Class C	↓		CDR1 H24
	Δ NEREN FIR BDRY 583740N 0204618E	NIL					For continuation, see AIP Estonia.
Q800 **(RNAV 5)**	Δ POKEN FIR BDRY 544910N 0143351E	NIL					For continuation, see AIP Poland.
			72.2	FL 285 / FL 095 Class C	↓	↑	To avoid EK R95, EK R96, ES D138 and ES D139 TEMPO radar vectoring on ATC instruction. Route extension: GND-FL200 Max 27 NM. FL200 and above MAX 7 NM.
	Δ LARMA FIR BDRY 551628N 0163006E	NIL					For continuation, see AIP Poland.

RNAV ROUTES

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

RNAV ROUTES

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Route designator (RNAV/RNP type)	*Name of significant points Coordinates*	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	*Direction of cruising levels* Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
T65 **(RNAV 5)**	Δ OSKOK FIR BDRY 621911N 0121544E	NIL					For continuation, see AIP Norway.
			43.7	FL 660 / FL 285 Class C	↓	↑	
	Δ MAVIP 625624N 0130456E	NIL					
			55.3	FL 660 / FL 195 Class C	↓		
	Δ DIRAV 634923N 0133907E	NIL					
			13.3	FL 660 / FL 195 Class C	↓		
	Δ GIKAV FIR BDRY 640204N 0134738E	NIL					
			27.1	FL 660 / FL 195 Class C	↓		
	Δ NOGBO FIR BDRY 642745N 0140650E	NIL					
			112.7	FL 660 / FL 195 Class C	↓		
	Δ USIKI FIR BDRY 661527N 0152342E	NIL					
			4.7	FL 660 / FL 195 Class C	↓		
	Δ LIDNA FIR BDRY 661952N 0152739E	NIL					
			29.1	FL 660 / FL 195 Class C	↓		
	Δ ABAXI FIR BDRY 664706N 0155233E	NIL					
			30.6	FL 660 / FL 195 Class C	↓		
	Δ TIPEL FIR BDRY 671543N 0161948E	NIL					
			49.4	FL 660 / FL 195 Class C	↓		
	Δ GILEN FIR BDRY 680139N 0170604E	NIL					
T70 **(RNAV 5)**	Δ SUTEV FIR BDRY 643314N 0224416E	NIL					For continuation, see AIP Finland.
			45.5	FL 285 / FL 095 Class C	↑	↓	To avoid ES R07 and ES R09 TEMPO radar vectoring on ATC instruction. Route extension: 1 NM CDR1 H24
	Δ KETEL 641156.8N 0211150.0E	NIL					
			25.9	FL 285 / FL 095 Class C	↑	↓	
	Δ LAPIX 635421N 0202844E	NIL					
			85.7	FL 285 / FL 095 Class C	↑	↓	
	Δ GAJPA 630013.5N 0180104.9E	NIL					
			175.2	FL 285 / FL 095 Class C	↑	↓	
	Δ XELVI FIR BDRY 612959N 0124005E	NIL					For continuation, see AIP Norway.

RNAV ROUTES

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Route designator (RNAV/RNP type) Name of significant points Coordinates		*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
T81 **(RNAV 5)**	Δ BESLA 655127.1N 0221836.9E	NIL					
			44.8	FL 285 / FL 095 Class C		↓	
	Δ VERAG 650731.9N 0215913.5E	NIL					
			59.4	FL 285 / FL 095 Class C		↓	To avoid ES R58 TEMPO radar vectoring on ATC instructions. Route extension: Max 1 NM.
	Δ KETEL 641156.8N 0211150.0E	NIL					
			31.9	FL 285 / FL 095 Class C		↓	
	Δ ROSMO 634159N 0204739E	NIL					
			17.9	FL 285 / FL 095 Class C		↓	
	Δ VALAK FIR BDRY 632507N 0203427E	NIL					
T89 **(RNAV 5)**	Δ IRGAL FIR BDRY 624950N 0200039E	NIL					For continuation, see AIP Finland.
			10.8	FL 285 / FL 095 Class C	↑	↓	
	Δ EDAXA 624654N 0193756E	NIL					
			88.7	FL 285 / FL 095 Class C	↑	↓	To avoid ES R70 TEMPO radar vectoring on ATC instruction. Route extension: 2 NM
	Δ DEGED 620601N 0164844E	NIL					
			47.1	FL 285 / FL 095 Class C	↑	↓	
	Δ ETOMI 614257N 0152159E	NIL					
			83.3	FL 285 / FL 245 Class C	↑	↓	
	Δ BUGAX 610000N 0125357E	NIL					
T311 **(RNAV 5)**	Δ EGAGO FIR BDRY 614033N 0121300E	NIL					For continuation, see AIP Norway.
			51.5	FL 285 / FL 195 Class C	↓	↑	
	Δ OVDAL 622343N 0131205E	NIL					
T314 **(RNAV 5)**	Δ RESNA 602201.0N 0180129.4E	NIL					
			16.5	FL 285 / FL 095 Class C	↓		
	Δ DEGAL 603820N 0175724E	NIL					
			74.7	FL 285 / FL 095 Class C	↓		
	Δ ZIPCO 615214.4N 0173757.2E	NIL					
			39.9	FL 285 / FL 095 Class C	↓		
	Δ SUNDSVALL DVOR/DME SUN 623142.4N 0172655.4E	NIL					

RNAV ROUTES

RNAV 5 represents a navigation accuracy of ±5 NM on a 95 per cent containment basis.

Route designator (RNAV/RNP type)	*Name of significant points Coordinates*	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	*Direction of cruising levels* Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
T316 **(RNAV 5)**	Δ SUNDSVALL DVOR/DME SUN 623142.4N 0172655.4E	NIL					
			39.5	FL 285 / FL 095 Class C		↓	
	Δ FOXSA 615451.4N 0175629.3E	NIL					
			3.0	FL 285 / FL 095 Class C		↓	
	Δ ASVOB 615204N 0175841E	NIL					
			65.4	FL 285 / FL 095 Class C		↓	
	Δ SIPRI 605044N 0184506E	NIL					
			35.7	FL 660 / FL 095 Class C	↓		Flight level change over HMR.
	Δ HAMMAR DVOR/DME HMR 601645.2N 0182329.6E	NIL					
			52.4	FL 285 / FL 095 Class C	↓		Flight level change over HMR.
	Δ BABAP 592520.2N 0184227.5E	NIL					
			10.1	FL 660 / FL 095 Class C	↓		
	Δ ALOLA 591536N 0183706E	NIL					
			20.0	FL 660 / FL 095 Class C	↓		To avoid ES R71 TEMPO radar vectoring on ATC instruction. Route extension: 15 NM
	Δ NEPVA 585544N 0183359E	NIL					
			41.3	FL 285 / FL 095 Class C	↓		To avoid ES R71 and D175 TEMPO radar vectoring on ATC instruction. Route extension: 15 NM
	Δ GOTAL 581438.0N 0182743.0E	NIL					
			35.3	FL 285 / FL 095 Class C	↓		
	Δ VISBY VOR/DME VSB 573934.3N 0182048.7E	NIL					
			127.7	FL 285 / FL 095 Class C	↓	↑	
	Δ PENOR FIR BDRY 553819N 0170941E	NIL					For continuation, see AIP Poland.

RNAV ROUTES

RNAV 5 represents a navigation accuracy of ±5 NM on a 95 per cent containment basis.

Route designator (RNAV/RNP type)	*Name of significant points Coordinates*	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
T317 **(RNAV 5)**	Δ AROS DVOR/DME ARS 593510.4N 0163901.2E	NIL					
			17.7	FL 660 / FL 095 Class C	↓		
	Δ ELTOK 594928.0N 0165923.7E	NIL					
			45.1	FL 285 / FL 095 Class C	↓		
	Δ RESNA 602201.0N 0180129.4E	NIL					
			184.9	FL 285 / FL 095 Class C	↓		To avoid ES D171 TEMPO radar vectoring on ATC instructions. Route extension: Max 2 NM
	Δ ÖRNSKÖLDSVIK VOR/DME OSK 632421.8N 0185936.8E	NIL					
			24.6	FL 285 / FL 095 Class C	↓	↑	RASEN: Entry/exit point for traffic from/to ESNL. CDR1 H24
	Δ RASEN 634843N 0190551E	NIL					
			83.1	FL 285 / FL 095 Class C	↓	↑	RASEN: Entry/exit point for traffic from/to ESNL. REKMI: Entry/exit point for traffic from/to ESNX. CDR1 H24
	Δ REKMI 651059N 0192821E	NIL					
			29.6	FL 285 / FL 095 Class C	↓	↑	REKMI: Entry/exit point for traffic from/to ESNX. CDR1 H24
	Δ OSKIR 654015N 0193656E	NIL					
			65.0	FL 285 / FL 095 Class C	↓	↑	To avoid ES R02 TEMPO radar vectoring on ATC instructions. Route extension: Max 8 NM ITVAV: Entry/exit point for traffic from/to ESNG. CDR1 H24
	Δ ITVAV 664430N 0195658E	NIL					
			36.9	FL 285 / FL 095 Class C	↓	↑	ITVAV: Entry/exit point for traffic from/to ESNG. CDR1 H24
	Δ VAGAS 672057.2N 0200907.7E	NIL					
			28.6	FL 285 / FL 095 Class C	↓	↑	CDR1 H24
	Δ KIRUNA DVOR/DME KRA 674909.3N 0202015.3E	NIL					
			44.3	FL 285 / FL 095 Class C	↓	↑	To avoid ES R01 TEMPO radar vectoring on ATC instruction. Route extension: 22 NM. CDR1 H24
	Δ NOVRI 683242N 0203944E	NIL					
T318 **(RNAV 5)**	Δ ÖRNSKÖLDSVIK VOR/DME OSK 632421.8N 0185936.8E	NIL					
			154.2	FL 285 / FL 095 Class C		↓	
	Δ SIPRI 605044N 0184506E	NIL					

RNAV ROUTES

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Route designator (RNAV/RNP type)	*Name of significant points Coordinates*	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
T320 **(RNAV 5)**	Δ EKMIK FIR BDRY 651506N 0234339E	NIL	———		———	———	For continuation, see AIP Finland.
			43.6	FL 285 / FL 095 Class C	↑	↓	CDR1 H24
	Δ LULEÅ VOR/DME SLU 653224.8N 0220803.3E	NIL	———		———	———	
			41.4	FL 285 / FL 095 Class C	↑	↓	To avoid ES R05 TEMPO radar vectoring on ATC instruction. Route extension: Max 4 NM CDR1 H24
	Δ BEGDO 655414N 0204253E	NIL	———		———	———	
			86.8	FL 285 / FL 095 Class C	↑	↓	To avoid ES R02 TEMPO radar vectoring on ATC instruction. Route extension: Max 13 NM CDR1 H24
	Δ UPEVA 663714N 0173644E	NIL	———		———	———	
			40.8	FL 285 / FL 095 Class C	↑	↓	CDR1 H24
	Δ MIMKI FIR BDRY 665609N 0160526E	NIL	———		———	———	For continuation, see AIP Norway.
T365 **(RNAV 5)**	Δ ALOLA 591536N 0183706E	NIL	———		———	———	
			20.2	FL 660 / FL 095 Class C	↓		
	Δ ODIBI 585707N 0185232E	NIL	———		———	———	
T400 **(RNAV 5)**	Δ EGAGO FIR BDRY 614033N 0121300E	NIL	———		———	———	For continuation, see AIP Norway.
			85.2	FL 285 / FL 245 Class C	↓	↑	
	Δ DIBVA 623752N 0142655E	NIL	———		———	———	
			129.6	FL 285 / FL 245 Class C	↓	↑	
	Δ LUKIG 635855N 0181039E	NIL	———		———	———	
			16.5	FL 285 / FL 245 Class C	↓	↑	CDR1 H24
	Δ TUDGI 640849N 0184044E	NIL	———		———	———	
			61.5	FL 285 / FL 245 Class C	↓	↑	CDR1 H24
	Δ UNKAS 645309N 0201910E	NIL	———		———	———	
			30.9	FL 285 / FL 095 Class C	↓	↑	CDR1 H24
	Δ RISEM 651308.6N 0211431.6E	NIL	———		———	———	
			39.4	FL 285 / FL 095 Class C		↑	
	Δ LAMOS 654817.0N 0215653.3E	NIL	———		———	———	
			57.4	FL 285 / FL 095 Class C		↑	CDR1 H24
	Δ ABALA 663930N 0230000E	NIL	———		———	———	
			28.3	FL 285 / FL 095 Class C		↑	CDR1 H24
	Δ NEBET FIR BDRY 670205N 0234301E	NIL	———		———	———	For continuation, see AIP Finland.

RNAV ROUTES

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Route designator (RNAV/RNP type)	*Name of significant points Coordinates*	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
T401 **(RNAV 5)**	Δ KETEL 641156.8N 0211150.0E	NIL					
			80.6	FL 285 / FL 095 Class C	↑	↓	CDR1 H24
	Δ LUKIG 635855N 0181039E	NIL					
			168.4	FL 285 / FL 095 Class C	↑	↓	
	Δ SOLKA FIR BDRY 631951N 0120309E	NIL					For continuation, see AIP Norway.
T402 **(RNAV 5)**	Δ JÖNKÖPING DVOR/DME JON 574537.6N 0140355.5E	NIL					
			107.5	FL 660 / FL 095 Class C		↓	To avoid ES R50 TEMPO radar vectoring on ATC instruction. Route extension: Max 1 NM. CDR1 H24
	Δ ERNOV 561007.9N 0123425.6E	NIL					
			4.1	FL 285 / FL 095 Class C		↓	
	Δ AMSUR FIR BDRY 560602N 0123350E	NIL					For continuation, see AIP Denmark.
T403 **(RNAV 5)**	Δ VERAG 650731.9N 0215913.5E	NIL					
			44.9	FL 285 / FL 095 Class C		↓	To avoid ES R58A TEMPO radar vectoring on ATC instruction. Route extension: Max 2 NM CDR1 H24
	Δ UNKAS 645309N 0201910E	NIL					
T404 **(RNAV 5)**	Δ XONTU FIR BDRY 655626N 0240436E	NIL					For continuation, see AIP Finland.
			71.6	FL 285 / FL 095 Class C		↓	
	Δ VERAG 650731.9N 0215913.5E	NIL					
			109.0	FL 285 / FL 095 Class C		↓	To avoid ES R58A TEMPO radar vectoring on ATC instruction. Route extension: Max 4 NM
	Δ RASEN 634843N 0190551E	NIL					
T408 **(RNAV 5)**	Δ KEMAX 560735N 0132714E	NIL					
			35.0	FL 660 / FL 095 Class C	↓		CDR1 H24
	Δ OTVEB 562930N 0141610E	NIL					
			262.9	FL 285 / FL 095 Class C	↓		ALAMI is a "fly over" point. CDR1 H24
	Δ ALAMI FIR BDRY 590252N 0205457E	NIL					For continuation, see AIP Finland.

RNAV ROUTES

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Route designator (RNAV/RNP type) Name of significant points Coordinates		*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
T519 **(RNAV 5)**	Δ NOGBO FIR BDRY 642745N 0140650E	NIL					
			181.2	FL 660 / FL 195 Class C	↓	↑	
	Δ LIVLI 671543N 0164848E	NIL					
			101.3	FL 660 / FL 195 Class C	↓	↑	
	Δ PEMAB 681911N 0201625E	NIL					
Y40 **(RNAV 5)**	Δ XILAN 593933.5N 0190433.8E	NIL					
			106.6	FL 285 / FL 245 Class C	↓		
	Δ RASEL FIR BDRY 580141N 0202453E	NIL					For continuation, see AIP Latvia.
Y41 **(RNAV 5)**	Δ LARMA FIR BDRY 551628N 0163006E	NIL					For continuation, see AIP Poland.
			237.0	FL 285 / FL 095 Class C		↓	To avoid ES D164/ES D166/ES R63 TEMPO radar vectoring on ATC instruction. Route extension : Max 20 NM CDR1 H24
	Δ SABAK 581035.6N 0113833.8E	NIL					
Y42 **(RNAV 5)**	Δ TINKA 591218.7N 0161747.0E	NIL					
			18.8	FL 660 / FL 095 Class C	↑	↓	
	Δ PELIT 591202N 0154116E	NIL					
			20.5	FL 660 / FL 095 Class C	↑	↓	Above FL285 AVBL westbound only.
	Δ DEPEX 591131N 0150121E	NIL					
Y43 **(RNAV 5)**	Δ KELIN 581436.9N 0120315.0E	NIL					
			32.4	FL 285 / FL 095 Class C	↑		To avoid ES R43 TEMPO radar vectoring on ATC instruction. Route extension : Max 2 NM
	Δ XENTA 584129N 0112858E	NIL					
			28.2	FL 660 / FL 095 Class C	↑	↓	Above FL285 AVBL westbound only.
	Δ REPKU FIR BDRY 584821N 0103629E	NIL					For continuation, see AIP Norway.
Y44 **(RNAV 5)**	Δ PENOR FIR BDRY 553819N 0170941E	NIL					For continuation, see AIP Poland.
			237.0	FL 285 / FL 095 Class C		↓	To avoid ES R64M/S TEMPO radar vectoring on ATC instruction. Route extension : Max 2 NM
	Δ SABAK 581035.6N 0113833.8E	NIL					

RNAV ROUTES

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Route designator (RNAV/RNP type)	*Name of significant points Coordinates*	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
Y96 **(RNAV 5)**	Δ EVLAN FIR BDRY 601508N 0190643E	NIL					For continuation, see AIP Finland.
			41.5	FL 285 / FL 095 Class C	↑	↓	
	Δ DEGAL 603820N 0175724E	NIL					
			179.4	FL 285 / FL 095 Class C	↑	↓	
	Δ OXOTI 624508N 0133124E	NIL					
			16.6	FL 285 / FL 095 Class C	↑	↓	
	Δ MAVIP 625624N 0130456E	NIL					
Y130 **(RNAV 5)**	Δ RASEL FIR BDRY 580141N 0202453E	NIL					For continuation, see AIP Latvia.
			197.6	FL 285 / FL 095 Class C	↑	↓	To avoid ES R22 TEMPO radar vectoring on ATC instruction. Route extension: 9 NM CDR1 H24
	Δ DETSO 583600N 0141552E	NIL					
Y360 **(RNAV 5)**	Δ LUPET FIR BDRY 593825N 0195235E	NIL					For continuation, see AIP Finland.
			43.5	FL 285 / FL 095 Class C		↓	
	Δ ELRID 593409N 0182718E	NIL					
Y430 **(RNAV 5)**	Δ LABAN 581009.8N 0131739.5E	NIL					
			40.0	FL 660 / FL 095 Class C	↓		To avoid ES R22, ES R25 and ES R75 TEMPO radar vectoring on ATC instruction. Route extension: 3 NM CDR1 H24
	Δ UMTON 583242N 0142020E	NIL					
			72.8	FL 660 / FL 095 Class C	↓		To avoid ES R22 and ES R208 TEMPO radar vectoring on ATC instruction. Route extension: 3 NM CDR1 H24
	Δ TINKA 591218.7N 0161747.0E	NIL					
Y440 **(RNAV 5)**	Δ BOMGU FIR BDRY 585424N 0104307E	NIL					
			52.7	FL 660 / FL 095 Class C	↓		CDR1 H24
	Δ SABAK 581035.6N 0113833.8E	NIL					

RNAV ROUTES

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

RNAV ROUTES

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Route designator (RNAV/RNP type) Name of significant points Coordinates		*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
Z166 **(RNAV 5)**	Δ VATEX FIR BDRY 591903N 0114914E	NIL					
			30.3	FL 660 / FL 095 Class C	↓	↑	
	Δ NIBNO 594424N 0122132E	NIL					
			69.9	FL 285 / FL 095 Class C	↓	↑	EBURI: Entry point for traffic from ESOK.
	Δ EBURI 594800N 0143938E	NIL					
			63.2	FL 285 / FL 095 Class C	↓	↑	EBURI: Entry point for traffic from ESOK.
	Δ ARGIB 595053N 0164441E	NIL					
Z183 **(RNAV 5)**	Δ MASEV FIR BDRY 601040N 0123205E	NIL					For continuation, see AIP Norway.
			57.7	FL 660 / FL 095 Class C	↓		
	Δ LEGPO 600246N 0142618E	NIL					
			26.3	FL 285 / FL 095 Class C	↓		
	Δ MILNU 595837N 0151801E	NIL					
			44.3	FL 285 / FL 095 Class C	↓		
	Δ ARGIB 595053N 0164441E	NIL					
			7.6	FL 285 / FL 095 Class C	↓		
	Δ ELTOK 594928.0N 0165923.7E	NIL					
Z212 **(RNAV 5)**	Δ POKEN FIR BDRY 544910N 0143351E	NIL					For continuation, see AIP Poland.
			16.2	FL 285 / FL 095 Class C	↓	↑	
	Δ RØNNE VOR ROE 550356.08N 0144531.29E	NIL					
Z226 **(RNAV 5)**	Δ PELUP 581643.8N 0162840.5E	NIL					
			54.8	FL 660 / FL 095 Class C	↓		To avoid ES R71 TEMPO radar vectoring on ATC instructions. Route extension: NIL
	Δ NILUG 584857N 0175305E	NIL					
Z227 **(RNAV 5)**	Δ VIBAR 573441N 0162326E	NIL					
			88.3	FL 660 / FL 095 Class C	↓		To avoid ES R71 TEMPO radar vectoring on ATC instructions. Route extension: NIL CDR1 H24
	Δ NILUG 584857N 0175305E	NIL					

RNAV ROUTES

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Route designator (RNAV/RNP type) Name of significant points Coordinates		*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
Z228 **(RNAV 5)**	Δ ARMOD 573003N 0172046E	NIL					
			80.9	FL 660 / FL 095 Class C	↓		To avoid ES R71 TEMPO radar vectoring on ATC instruction. Route extension: 4 NM
	Δ NILUG 584857N 0175305E	NIL					CDR1 H24
Z229 **(RNAV 5)**	Δ ROGMI 581137.6N 0180006.3E	NIL					
			37.6	FL 660 / FL 095 Class C	↓		To avoid ES R71 and ES D175 TEMPO radar vectoring on ATC instruction. Route extension: 9 NM
	Δ NILUG 584857N 0175305E	NIL					
Z255 **(RNAV 5)**	Δ KOGAV 600452.0N 0171346.6E	NIL					
			116.4	FL 285 / FL 095 Class C		↓	To avoid ES R209 TEMPO radar vectoring on ATC instruction. Route extension: Max 5 NM
	Δ UMSAK 612528N 0142301E	NIL					
			80.8	FL 285 / FL 095 Class C		↓	To avoid ES R13 TEMPO radar vectoring on ATC instruction. Route extension: Max 3 NM
	Δ OSKOK FIR BDRY 621911N 0121544E	NIL					For continuation, see AIP Norway.
Z259 **(RNAV 5)**	Δ KARLSTAD VOR/DME KSD 592632.8N 0131953.6E	NIL					
			37.6	FL 660 / FL 095 Class C		↓	CDR1 H24
	Δ TEKVA 595905N 0124310E	NIL					
			10.0	FL 660 / FL 095 Class C		↓	
	Δ ESEBA FIR BDRY 600046N 0122332E	NIL					
Z265 **(RNAV 5)**	Δ TOGMI FIR BDRY 614543N 0193225E	NIL					
			178.9	FL 285 / FL 245 Class C	↑	↓	
	Δ OXOTI 624508N 0133124E	NIL					
			40.0	FL 285 / FL 245 Class C	↑	↓	
	Δ TIGBA FIR BDRY 625614N 0120731E	NIL					

RNAV ROUTES

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Route designator (RNAV/RNP type)	*Name of significant points Coordinates*	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
Z330 **(RNAV 5)**	Δ ELVIX 552443N 0140539E	NIL					
			50.1	FL 285 / FL 095 Class C	↓		To avoid ES R34, ES R35 and ES R38A/B TEMPO radar vectoring on ATC instruction. Route extension: 11 NM
	Δ KOTAM 560758N 0145012E	NIL					CDR1 H24
			37.5	FL 285 / FL 095 Class C	↓		CDR1 H24
	Δ TEMLI 564041.5N 0152301.7E	NIL					
			63.3	FL 285 / FL 095 Class C	↓	↑	CDR1 H24
	Δ VIBAR 573441N 0162326E	NIL					
			89.0	FL 660 / FL 095 Class C	↓		CDR1 H24
	Δ TROSA DVOR/DME TRS 585616.5N 0173008.3E	NIL					
Z371 **(RNAV 5)**	Δ GEVRU 604434N 0141947E	NIL					
			64.4	FL 285 / FL 195 Class C	↑	↓	To avoid ES R13 TEMPO radar vectoring on ATC instruction. Route extension: Max 3 NM.
	Δ ARPIV 613914N 0130957E	NIL					
			47.5	FL 285 / FL 115 Class C	↑	↓	
	Δ OSKOK FIR BDRY 621911N 0121544E	NIL					For continuation, see AIP Norway
Z400 **(RNAV 5)**	Δ TIDVU 552440.7N 0133327.1E	NIL					
			29.7	FL 660 / FL 095 Class C		↑	
	Δ BAKLI FIR BDRY 545500.0N 0133338.8E	NIL					For continuation, see AIP Germany.
Z418 **(RNAV 5)**	Δ BORLÄNGE VOR/DME BOR 602517.4N 0153109.1E	NIL					
			94.4	FL 285 / FL 095 Class C		↓	BOR: Exit for traffic to ESKS. To avoid ES R200 TEMPO radar vectoring on ATC instruction. Route extension: 2 NM ROVPA: Entry for traffic from ESKS.
	Δ ROVPA FIR BDRY 604402N 0122344E	NIL					For continuation, see AIP Norway.
Z451 **(RNAV 5)**	Δ ASTOS 560714N 0125741E	NIL					
			44.7	FL 660 / FL 095 Class C	↓		
	Δ ROXEN 563352N 0140200E	NIL					

RNAV ROUTES

RNAV 5 represents a navigation accuracy of ±5 NM on a 95 per cent containment basis.

Route designator (RNAV/RNP type) Name of significant points Coordinates		*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
Z490 **(RNAV 5)**	Δ ASTOS 560714N 0125741E	NIL					
			16.5	FL 660 / FL 095 Class C	↓		
	Δ KEMAX 560735N 0132714E	NIL					
			46.4	FL 660 / FL 095 Class C	↓		
	Δ KOTAM 560758N 0145012E	NIL					
Z491 **(RNAV 5)**	Δ SIMEG 551500N 0133004E	NIL					
			24.2	FL 660 / FL 095 Class C	↓		To avoid ES D140 TEMPO radar vectoring on ATC instructions. Route extenison: Max 3 NM
	Δ TELMO 550316.6N 0140658.6E	NIL					
			12.9	FL 285 / FL 095 Class C	↓		To avoid ES D140 TEMPO radar vectoring on ATC instructions. Route extenison: Max 3 NM
	Δ KEKOV 545658N 0142628E	NIL					
			8.9	FL 285 / FL 095 Class C	↓		
	Δ POKEN FIR BDRY 544910N 0143351E	NIL					For continuation, see AIP Poland.
Z493 **(RNAV 5)**	Δ SIMEG 551500N 0133004E	NIL					
			30.5	FL 660 / FL 095 Class C	↓		To avoid ES D140 TEMPO radar vectoring on ATC instruction. Route extension: 2 NM CDR1 H24
	Δ BIKRU FIR BDRY 545500N 0141000E	NIL					For continuation, see AIP Germany.
Z540 **(RNAV 5)**	Δ NEKLA 590000.0N 0191549.1E	NIL					
			25.4	FL 660 / FL 095 Class C	↑	↓	
	Δ ALOLA 591536N 0183706E	NIL					
Z702 **(RNAV 5)**	Δ EVBAS FIR BDRY 560844N 0122840E	NIL					For continuation, see AIP Denmark.
			71.4	FL 285 / FL 245 Class C	↓		
	Δ DEKIK 564552N 0141828E	NIL					
Z703 **(RNAV 5)**	Δ ELPAX 580544N 0151624E	NIL					
			75.5	FL 660 / FL 095 Class C		↓	CDR1 H24
	Δ UMIXA 570924N 0134302E	NIL					
			70.7	FL 285 / FL 095 Class C		↓	CDR1 H24
	Δ KULUD FIR BDRY 561538N 0121959E	NIL					For continuation, see AIP Denmark.

RNAV ROUTES

RNAV 5 represents a navigation accuracy of ±5 NM on a 95 per cent containment basis.

Route designator (RNAV/RNP type)	*Name of significant points Coordinates*	*Way-point IDENT (NIL)*	*Geodesic DIST NM*	*Upper limits / Lower limits Airspace classification*	*Direction of cruising levels* Odd	*Direction of cruising levels* Even	*Remarks Controlling unit Logon Channel address*
1		2	3	4	5		6
Z731 **(RNAV 5)**	Δ MAKUR FIR BDRY 572547.0N 0112425.0E	NIL	———	FL 285 / FL 095 Class C	——	——	For continuation, see AIP Denmark.
			45.5		↓		
	Δ SABAK 581035.6N 0113833.8E	NIL	———		——	——	

3.3 Andra flygvägar

FRA Connecting Routes.

1 Startande/landande trafik från/till flygplatser inom Stockholm TMA laterala gränser.

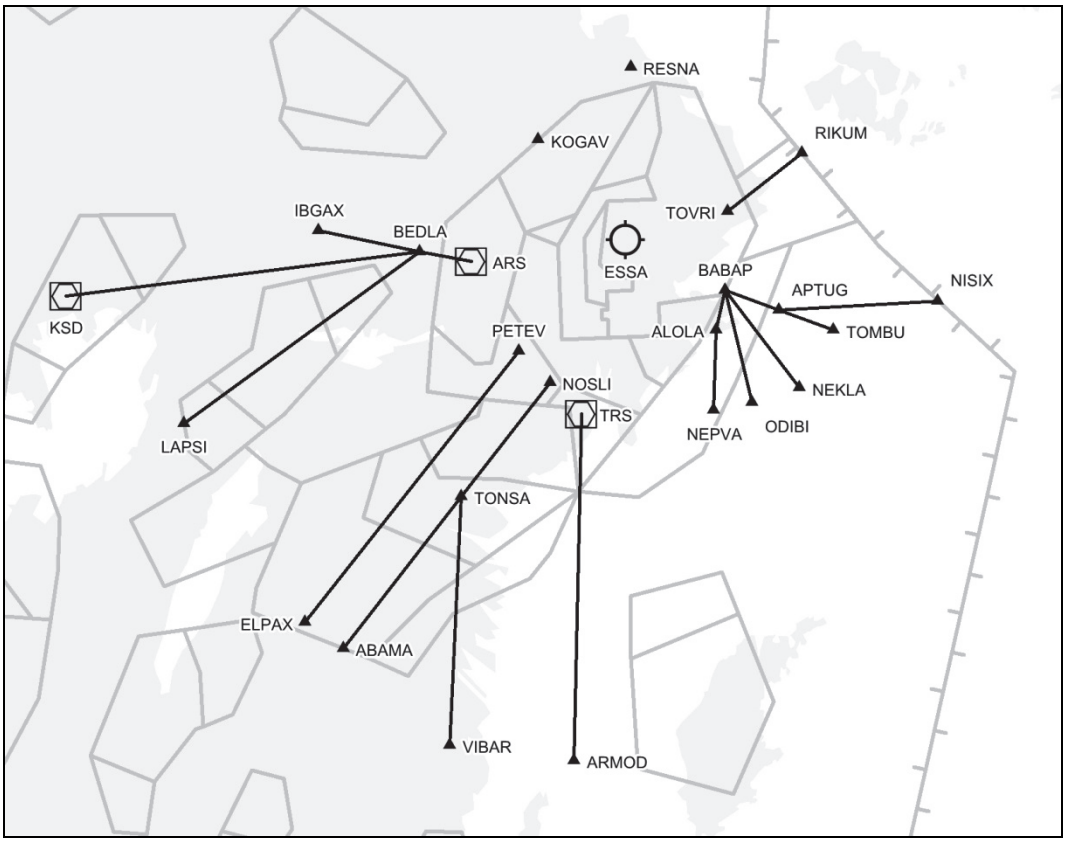
1.1 Startande trafik från ESSA

3.3 Other routes

FRA Connecting Routes.

1 Departing/arriving traffic from/to aerodromes within the lateral borders of Stockholm TMA.

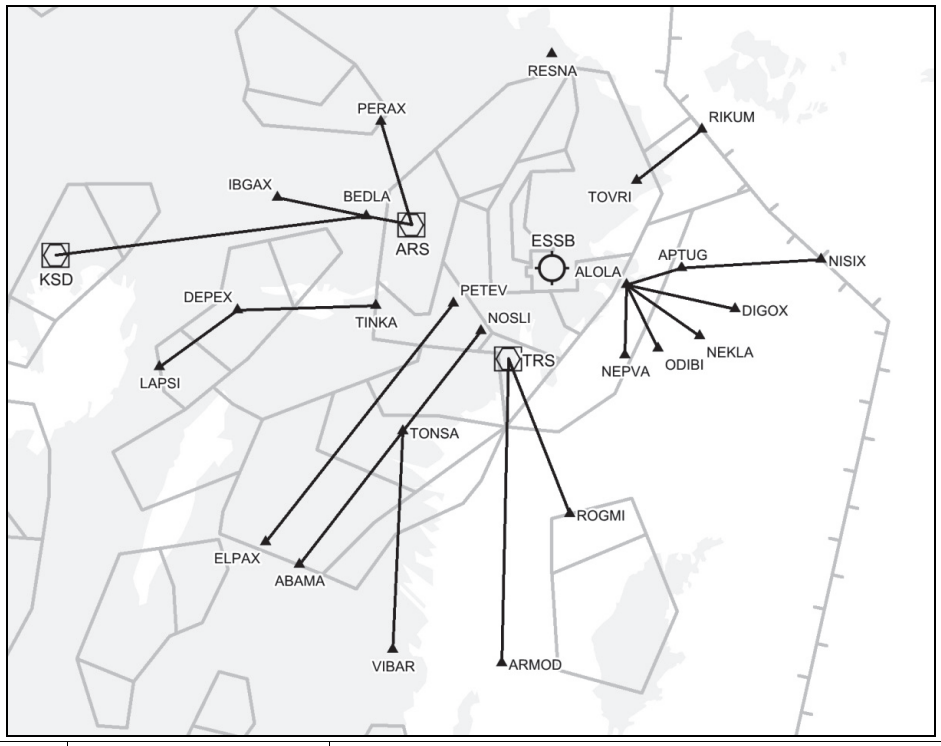
1.1 Departing traffic from ESSA



ESSA SID Final Waypoint	ESSA FRA Departure Connecting Point	Flight Plan
RESNA	RESNA	RESNA-DCT
TOVRI	RIKUM	TOVRI-N851-RIKUM
BABAP Note: For traffic towards EKDK, EDWW, EDUU FIR/UIR flight plan BABAP-T316-VSB-DCT-KAL-DCT	NISIX	BABAP-P607-APTUG-M851-NISIX
	TOMBU	BABAP-P607-TOMBU-DCT
	NEKLA	BABAP-P156-NEKLA-DCT
	ODIBI	BABAP-N5-ODIBI-DCT
	NEPVA	BABAP-T316-NEPVA-DCT
TRS	ARMOD	TRS-M607-ARMOD-DCT
NOSLI	ABAMA	NOSLI-N850-ABAMA-DCT
	VIBAR	NOSLI-N850-TONSA-L87-VIBAR-DCT
PETEV	ELPAX	PETEV-N872-ELPAX-DCT
ARS	LAPSI	ARS-N623-BEDLA-N866-LAPSI-DCT
	IBGAX	ARS-N623-IBGAX-DCT (not avbl for tfc via ENOS 1 sector)
	KSD	ARS-N623-BEDLA-P609-KSD-DCT
KOGAV	KOGAV	KOGAV-DCT

1.2 Startande trafik från ESSB

1.2 Departing traffic from ESSB



ESSB SID Final Waypoint	ESSB FRA Departure Connecting Point	Flight Plan
RESNA	RESNA	RESNA-DCT
TOVRI	RIKUM	TOVRI-N851-RIKUM
ALOLA Note: For traffic towards EKDK, EDWW, EDUU FIR/UIR flight plan ALOLA-T316-VSB-DCT-KAL-DCT	NISIX	ALOLA-M851-NISIX
	DIGOX	ALOLA-M92-DIGOX-DCT
	NEKLA	ALOLA-Z540-NEKLA-DCT
	ODIBI	ALOLA-T365-ODIBI-DCT
	NEPVA	ALOLA-T316-NEPVA-DCT
TRS	ARMOD	TRS-M607-ARMOD-DCT
	ROGMI	TRS-M996-ROGMI-DCT
NOSLI	ABAMA	NOSLI-N850-ABAMA-DCT
	VIBAR	NOSLI-N850-TONSA-L87-VIBAR-DCT
PETEV	ELPAX	PETEV-N872-ELPAX-DCT
TINKA	LAPSI	TINKA-Y42-DEPEX-N866-LAPSI-DCT
ARS	IBGAX	ARS-N623-IBGAX-DCT (not avbl. for tfc via ENOS 1 sector)
	PERAX	ARS-PERAX-DCT
	KSD	ARS-N623-BEDLA-P609-KSD-DCT

1.3 Startande trafik från övriga flygplatser inom Stockholm TMA laterala gränser.

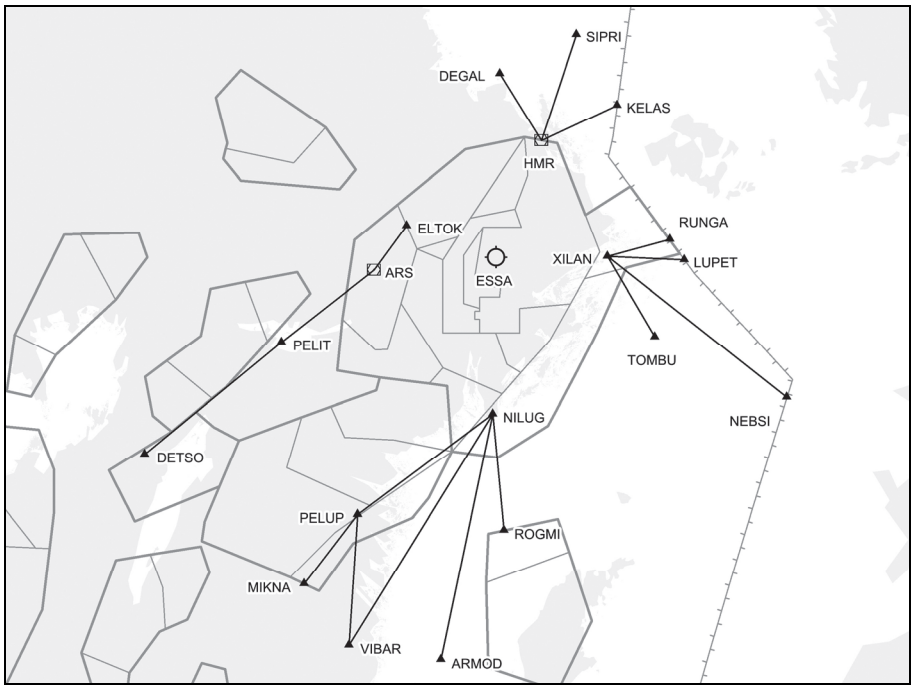
Färdplanera från flygplatsen direkt till SID Final Waypoint i Stockholm TMA (RESNA, TOVRI, BABAP, ALOLA, TRS, NOSLI, PETEV, TINKA, ARS eller KOGAV) och sedan enligt beskrivningen i m.o.m 1.1 eller 1.2.

1.3 Departing traffic from other aerodromes within the lateral borders of Stockholm TMA.

Flight plan from the aerodromes direct to one of the SID Final Waypoints in Stockholm TMA (RESNA, TOVRI, BABAP, ALOLA, TRS, NOSLI, PETEV, TINKA, ARS or KOGAV) and then according to description in para 1.1 or 1.2.

1.4 Landande trafik till ESSA

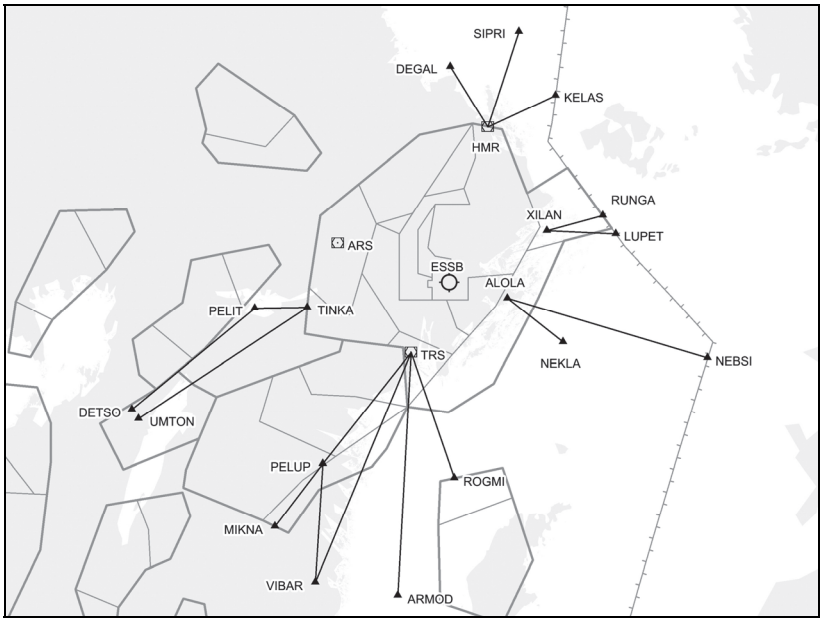
1.4 Arriving traffic to ESSA



ESSA Arrival Connecting Point	**ESSA STAR Initial Waypoint**	**Flight Plan**
DEGAL	HMR	DCT to DEGAL-L870-HMR
SIPRI (Compulsory for dep ESNN)		DCT to SIPRI-N5/T31/T316-HMR
KELAS		KELAS-L87-HMR
RUNGA	XILAN	RUNGA-N872-XILAN
LUPET		LUPET-L77-XILAN
NEBSI		NEBSI-L870-XILAN
TOMBU		DCT TOMBU-N616-XILAN
ROGMI	NILUG	DCT to ROGMI-Z229-NILUG
ARMOD		DCT to ARMOD-Z228-NILUG
VIBAR		DCT to VIBAR-Z227-NILUG or DCT VIBAR-L87-PELUP-Z226-NILUG
MIKNA		DCT to MIKNA-N851-PELUP-Z226-NILUG
DETSO	ELTOK	DCT to DETSO-N873-ARS-T317-ELTOK
ELTOK if the trajectory is north of PELIT		DCT to ELTOK

1.5 Landande trafik till ESSB

1.5 Arriving traffic to ESSB.



ESSB Arrival Connecting Point	ESSB STAR Initial Waypoint/Waypoint	Flight Plan
DEGAL	HMR	DCT to DEGAL-L870-HMR
SIPRI (Compulsory for dep ESNN)		DCT to SIPRI-N5/T31/T316-HMR
KELAS		KELAS-L87-HMR
RUNGA	XILAN	RUNGA-N872-XILAN
LUPET		LUPET-L77-XILAN
NEBSI	ALOLA	NEBSI-M92-ALOLA
NEKLA		DCT to NEKLA-Z540-ALOLA
MIKNA	TRS	DCT to MIKNA-N851-TRS
VIBAR		DCT to VIBAR-Z330-TRS or DCT VIBAR-L87-PELUP-N851-TRS
ARMOD		DCT to ARMOD-M607-TRS
ROGMI		DCT to ROGMI-M996-TRS
DETSO	TINKA	DCT to DETSO-N873-PELIT-Y42-TINKA
UMTON		DCT to UMTON-Y430-TINKA
ARS if the trajectory is north of TINKA	ARS	DCT to ARS

1.6 Landande trafik till övriga flygplatser inom Stockholm TMA laterala gränser.

Färdplanera enligt beskrivningen i ENR 1.3 från en Stockholm TMA FRA Arrival Connecting Point till en STAR Initial Waypoint. Därefter direkt till flygplatsen.

Anm. Starter ESNN med destination inom Stockholm TMA skall färdplanera SIPRI – HMR.

1.6 Arriving traffic to other aerodromes within the lateral borders of Stockholm TMA.

Flight plan, as described in ENR 1.3 from a Stockholm TMA FRA Arrival Connecting Point to a STAR Initial Waypoint. Then flight plan direct to the destination.

Note. Departure ESNN with destination within Stockholm TMA shall flight plan SIPRI – HMR.

2 Startande/landande trafik från/till flygplatser inom Östgöta TMA laterala gränser

2.1 Startande trafik:

Trafik från flygplatser inom Östgöta TMA laterala gränser skall när så är rimligt färdplanera via:

2 Departing/arriving traffic from/to aerodromes within the lateral borders of Östgöta TMA

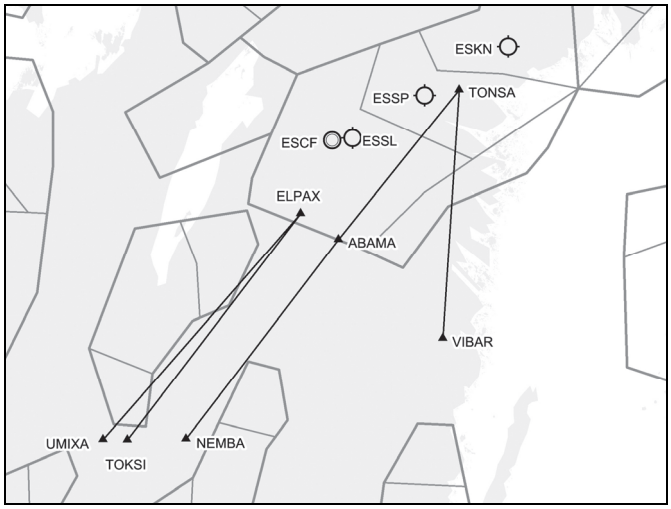
2.1 Departing traffic:

Traffic from aerodromes within the lateral borders of Östgöta TMA shall whenever reasonable flight plan via:

- **ABAMA – N850 – NEMBA – DCT or TONSA – N850 – NEMBA – DCT (for dep ESKN) or**
- **TONSA – L87 – VIBAR – DCT (for dep ESKN) or**
- **ELPAX – N872 – TOKSI – DCT or**
- **ELPAX – Z703 – UMIXA – DCT**

För övriga starter är det tillåtet att färdplanera direkt.

Remaining departures are allowed to flight plan DCT after departure.



2.2 Landande trafik:

Trafik till flygplatser inom Östgöta TMA laterala gränser skall när så är rimligt färdplanera via:

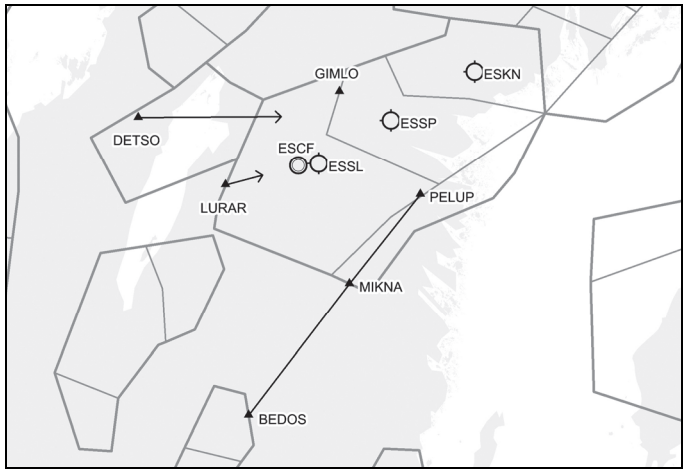
2.2 Arriving traffic:

Traffic to aerodromes within the lateral borders of Östgöta TMA shall whenever reasonable flight plan via:

- **BEDOS – N851 – MIKNA or BEDOS – N851 – PELUP (for dest ESKN)**
- **LURAR – SC / OL / ON / GIMLO or**
- **DETSO – SC / OL / ON / GIMLO**

För övriga landningar är det tillåtet att färdplanera direkt för att ansluta på normala landningsprocedurer.

Remaining arrivals are allowed to flight plan DCT to join normal arrival procedures.

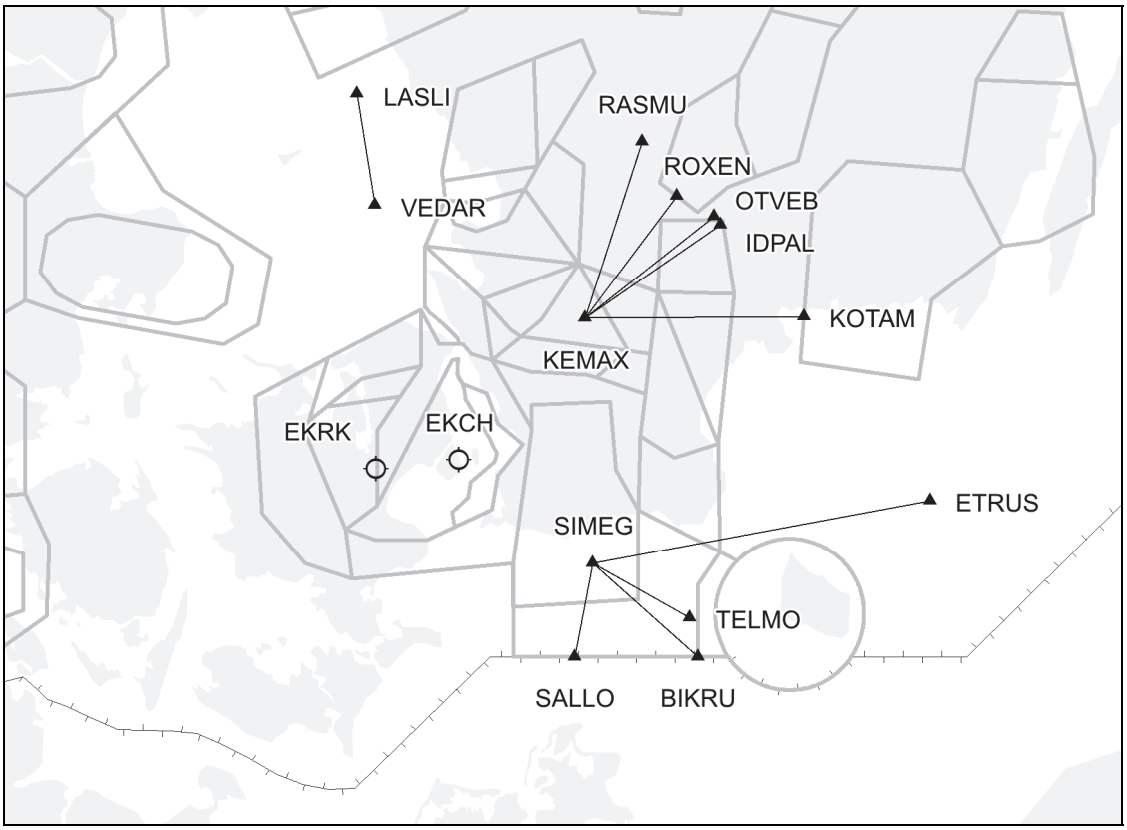


3 Startande/landande trafik från/till flygplatser inom Köpenhamn/Malmö/Halmstad TMA laterala gränser

3.1 Startande trafik från EKCH/EKRK

3 Departing/arriving traffic from/to aerodromes within the lateral borders of Köpenhamn/Malmö/Halmstad TMA

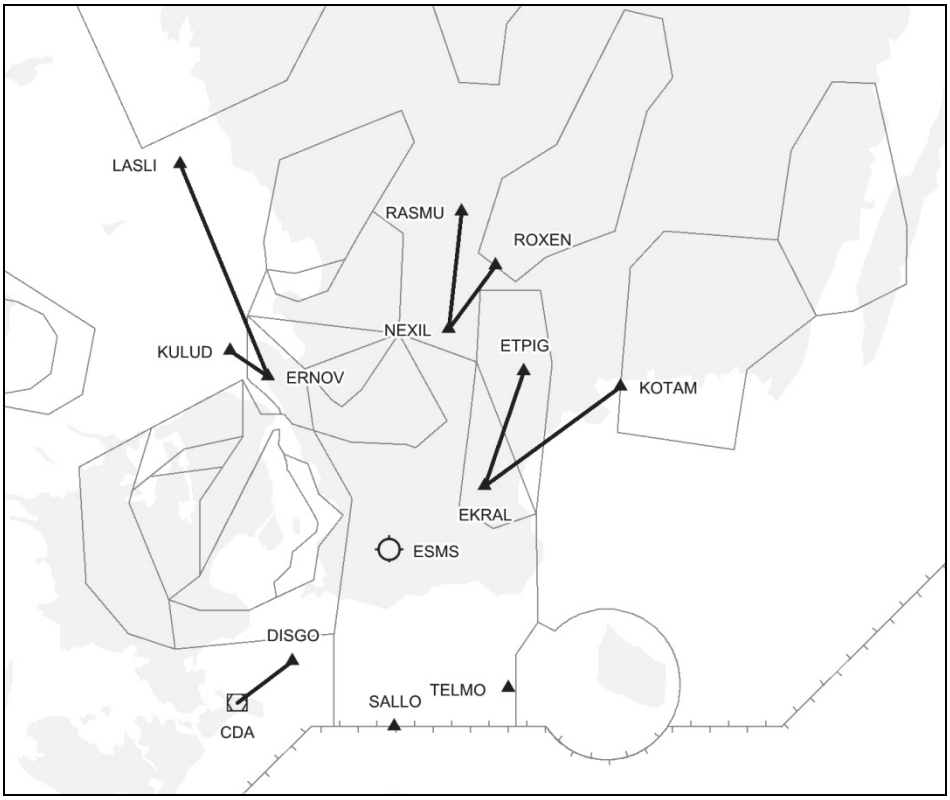
3.1 Departing traffic EKCH/EKRK



EKCH SID Final Waypoint/ EKRK Departure Route Final Waypoint	EKCH/EKRK FRA Departure Connecting Point	Flight Plan
KEMAX	KOTAM	KEMAX-Z490-KOTAM-DCT
	OTVEB	KEMAX-T408-OTVEB-DCT
	IDPAL	KEMAX-Q44-IDPAL-DCT
	ROXEN	KEMAX-N851-ROXEN-DCT
	RASMU	KEMAX–RASMU-DCT
SALLO	SALLO	SALLO
SIMEG	SALLO	SIMEG-M736-SALLO
	BIKRU	SIMEG-Z493-BIKRU
	TELMO	SIMEG-Z491-TELMO-DCT
	ETRUS	SIMEG-L987-ETRUS-DCT
VEDAR	LASLI	VEDAR-L997-LASLI-DCT

3.2 Startande trafik från ESMS

3.2 Departing traffic ESMS



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

3.3 Startande trafik från ESTA

Enligt ENR 1.3.

3.4 Startande trafik från ESMT

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

3.5 Startande trafik från ESMK

Enligt ENR 1.3.

3.6 Startande trafik från ESTL

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

3.3 Departing traffic ESTA

According to ENR 1.3.

3.4 Departing traffic ESMT

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

3.5 Departing traffic ESMK

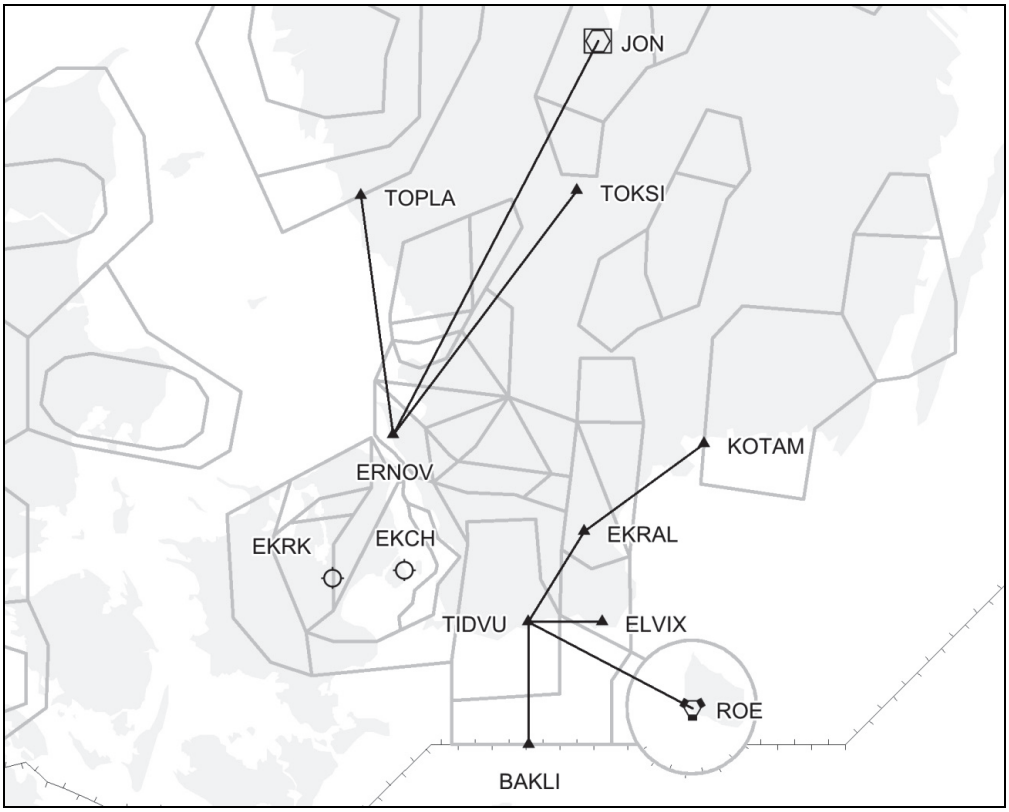
According to ENR 1.3.

3.6 Departing traffic ESTL

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

3.7 Landande trafik till EKCH/EKRK

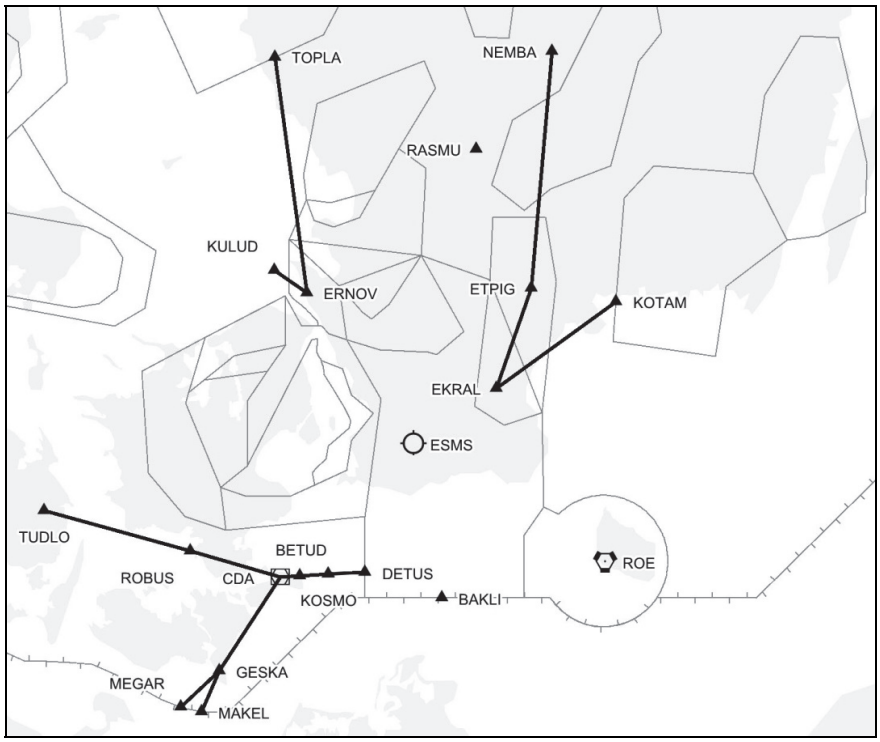
3.7 Arriving traffic to EKCH/EKRK



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

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, NEXIL eller MAXUM (om rimligt) annars enligt ENR 1.3.

3.12 Arriving traffic to ESTL

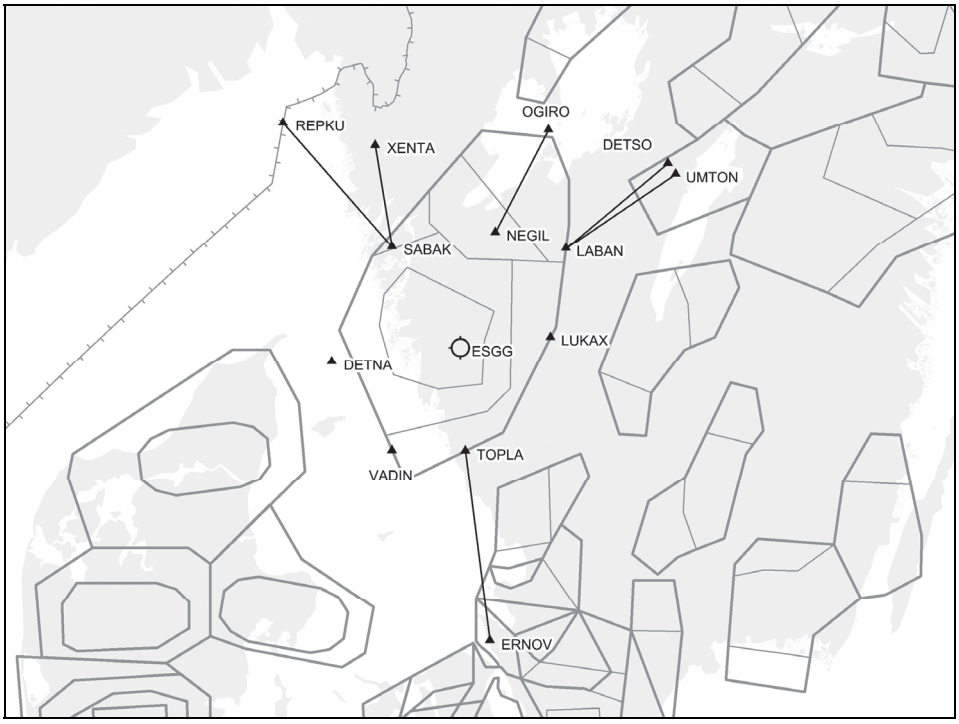
DCT LB, NEXIL or MAXUM (if suitable) otherwise according to ENR 1.3.

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

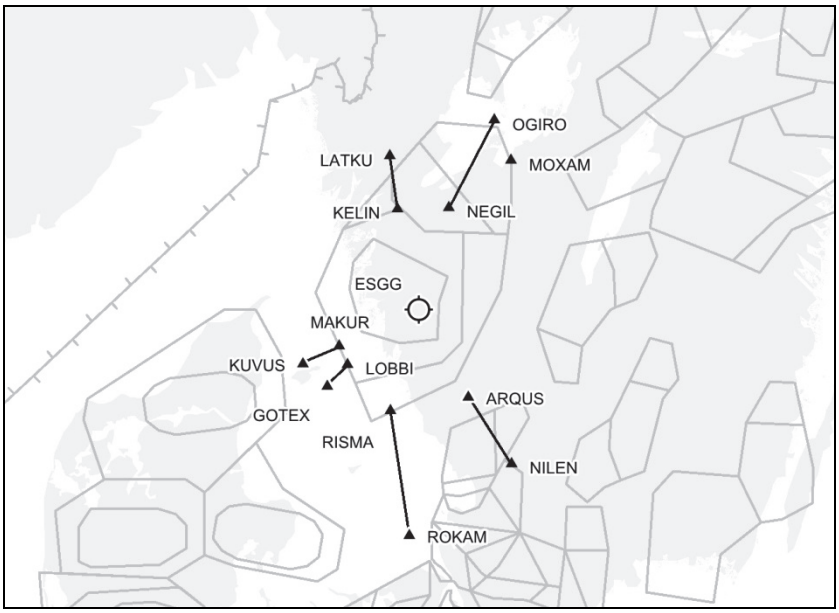
Färdplanera direkt från flygplatsen till NEGIL, LABAN, LUKAX, TOPLA, VADIN, DETNA eller SABAK och sedan enligt beskrivningen i para 4.1.

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.

4.3 Landande trafik till ESGG

4.3 Arriving traffic to ESGG



ESGG Arrival Connecting Point	ESGG STAR Initial Waypoint	Flight Plan
OGIRO	NEGIL	DCT to OGIRO-M852-NEGIL
MOXAM	MOXAM	DCT to MOXAM
NILEN	ARQUS	DCT to NILEN-L617-ARQUS
RISMA	RISMA	DCT to RISMA
ROKAM		DCT to ROKAM-L997-RISMA (compulsory for traffic via EKDK C/UC, EKDK E, EKDK L and EKDK V/UV sectors)
GOTEX	LOBBI	DCT to GOTEX-N873-LOBBI
KUVUS	MAKUR	DCT to KUVUS-N607-MAKUR
LATKU	KELIN	DCT to LATKU-L996- KELIN

4.4 Landande trafik på övriga flygplatser inom Göteborg TMA laterala gränser

Färdplanera från en valfri FRA Arrival Connecting Point enligt beskrivningen i para 4.3 direkt till flygplatsen.

4.4 Arriving traffic to other aerodromes within the lateral borders of Göteborg TMA

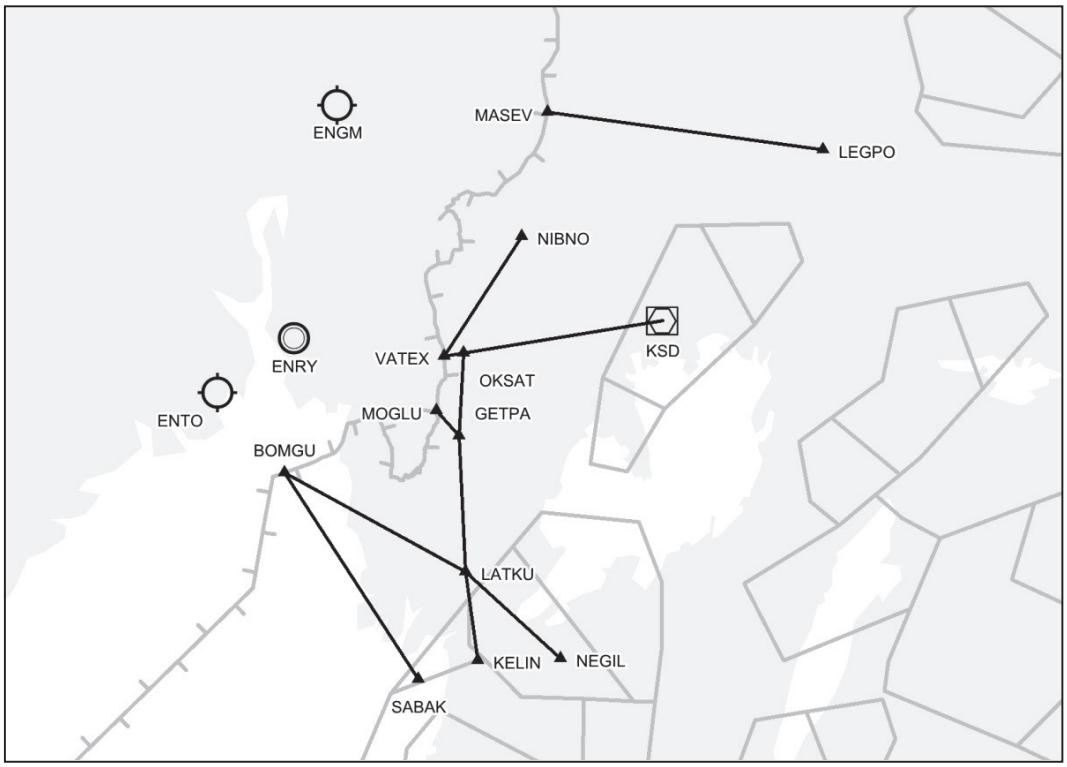
Flight plan from an optional FRA Arrival Connecting Point described in para 4.3 direct to the destination.

5 Startande/landande trafik från/till flygplatser inom Oslo/Farris TMA laterala gränser

5.1 Startande trafik från flygplatser inom Oslo eller Farris TMA

5 Departing/arriving traffic from/to aerodromes within the lateral borders of Oslo/Farris TMA

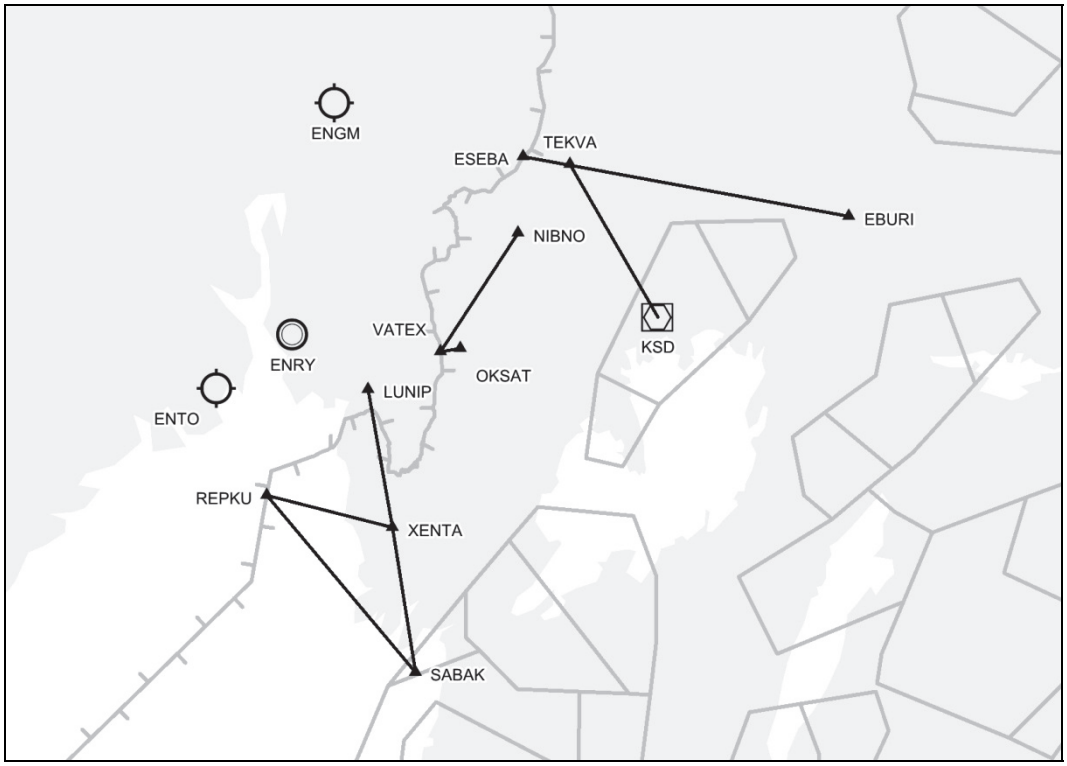
5.1 Departures from aerodromes within Oslo or Farris TMA.



FRA Horizontal Entry Point/SID Final Waypoint	FRA Departure Connecting Point	Flight Plan
MASEV	LEGPO	MASEV-Z183-LEGPO-DCT if planned FRA Horizontal Exit Point or FRA Connecting Point is south of LEGPO
	MASEV	MASEV-DCT if planned FRA Horizontal Exit Point or FRA Connecting Point is north of LEGPO
VATEX	NIBNO	VATEX-Z166-NIBNO-DCT
	KSD	VATEX-P609-KSD-DCT
OKSAT	NEGIL	OKSAT-L996-GETPA-L727/L996-LATKU-L727-NEGIL-DCT
	KELIN	OKSAT-L996-GETPA-L727/L996-LATKU-L996-KELIN-DCT
MOGLU	NEGIL	MOGLU-L727-GETPA-L727/L996-LATKU-L727-NEGIL-DCT
	KELIN	MOGLU-L727-GETPA-L727/L996-LATKU-L996-KELIN-DCT
BOMGU	SABAK	BOMGU-Y440-SABAK-DCT
	NEGIL	BOMGU-Z132-LATKU-L727-NEGIL-DCT
	KELIN	BOMGU-Z132-LATKU-L996-KELIN-DCT

5.2 Landande trafik till flygplatser inom Oslo eller Farris TMA.

5.2 Arriving traffic to aerodromes within the lateral borders of Oslo/Farris TMA



FRA Arrival Connecting Point	FRA Horizontal Exit Point	Flight Plan
SABAK	LUNIP	DCT to SABAK-L997-LUNIP
	REPKU	DCT to SABAK-L617-REPKU
		DCT to SABAK-L997-XENTA-Y43-REPKU
EBURI	ESEBA	DCT to EBURI-N623-TEKVA-N623/Z259-ESEBA
KSD		DCT to KSD-Z259-TEKVA-N623/Z259-ESEBA
NIBNO	VATEX	DCT to NIBNO-Z166-VATEX
OKSAT		DCT to OKSAT-P609-VATEX

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 126.625 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/ 5°E 2020	JON	115.80 MHz (105X)	H24	574537.6N 0140355.5E	782 ft	(IA)	(A): EKCH, EKRK Coverage FL500/100 NM
KALMAR VOR/DME/ 6°E 2020	KAL	111.60 MHz (53X)	H24	564107.2N 0161702.8E	26 ft	(I)	Coverage 022.5°- 067.5° FL500/80 NM Coverage 067.5°- 022.5° FL500/160 NM
KARLSTAD VOR/DME/ 5°E 2020	KSD	117.80 MHz (125X)	H24	592632.8N 0131953.6E	341 ft	(ID)	(D): ENGM, ENRY, ENTO, ESSA, ESSB Coverage FL500/120 NM
KIRUNA DVOR/DME/ 10°E 2020	KRA	115.20 MHz (99X)	H24	674909.3N 0202015.3E	1505 ft	(I)	Coverage FL500/100 NM
LANDVETTER DVOR/DME/ 4°E 2020	LAV	114.60 MHz (93X)	H24	573922.0N 0121723.5E	574 ft	(I)	Coverage FL500/100 NM

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

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R28B TOFTA	574058N 0175717E - 573705N 0180647E - 573619N 0180147E - 573314N 0175817E - 572936N 0175756E - 572829N 0180017E - 572729N 0175017E - 573528N 0175047E - 574058N 0175717E	27500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller VISBY ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or VISBY ATS.
ES R28C TOFTA	574205N 0181054E - 573742N 0181053E - 573705N 0180647E - 574058N 0175717E - 574205N 0181054E	27500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller VISBY ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or VISBY ATS.
ES R30A SKILLINGARYD	573041N 0140610E - 572928N 0141419E - 572128N 0141049E - 572058N 0140519E - 572910N 0140517E - 573041N 0140610E	24500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC, STOCKHOLM ACC, JÖNKÖPING ATS eller HAGSHULT ATS när Hagshult TMA är upprättat via NOTAM eller AIP SUP. Military activities including aviation operations. Permission obtainable from MALMÖ ACC, STOCKHOLM ACC, JÖNKÖPING ATS or HAGSHULT ATS when established by NOTAM or AIP SUP.
ES R30B SKILLINGARYD	572128N 0141049E - 571659N 0140919E - 571659N 0140449E - 572058N 0140519E - 572128N 0141049E	24500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC, STOCKHOLM ACC, JÖNKÖPING ATS eller HAGSHULT ATS när Hagshult TMA är upprättat via NOTAM eller AIP SUP. Military activities including aviation operations. Permission obtainable from MALMÖ ACC, STOCKHOLM ACC, JÖNKÖPING ATS or HAGSHULT ATS when established by NOTAM or AIP SUP.

Restricted areas

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

Restricted areas

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

Restricted areas

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

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R46A JUNKÖN	652752N 0222027E - 652643N 0222055E - 652457N 0222608E - 652315N 0221759E - 652531N 0221748E - 652552N 0221653E - 652716N 0221558E - 652752N 0222027E	6100 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller KALLAX ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or KALLAX ATS. Området är upprättat (svenska helgdagar undantagna) MÅN - TORS 0730-1500 (0630-1400) FRE 0730-1100 (0630-1000). Under perioden 15 SEP - 1 APR även TIS och TORS 1500-2100 (1400-2000). Established (Swedish public holidays excluded) MON-THU 0730-1500 (0630-1400) FRI 0730-1100 (0630-1000). During the period 15 SEP-1 APR also TUE and THU 1500-2100 (1400-2000).
ES R47 SAREK	673314N 0171211E - 673109N 0172407E - 673306N 0173438E - 673105N 0174536E - 672324N 0175841E - 672408N 0180515E - 672309N 0180815E - 671057N 0181818E - 670324N 0181545E - 670219N 0180059E - 670354N 0173716E - 671034N 0170826E - 672425N 0170442E - 673314N 0171211E	FL 100 ——— GND	Nationalpark. Särskilda tillstånd från Transportstyrelsen krävs förutom operatörer som framgår av ENR 5.1 stycke 2.4.1, luftfartyg som används av Länsstyrelsen Norrbottens län, eller för renskötsel enligt Rennäringslag (1971:437). National Park. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.1, aircraft used by the County Administrative Board in Norrbotten, or for reindeer husbandry according to the Reindeer Husbandry Act (1971:437).
ES R49 SÅTENÄS	583058N 0124050E - 583058N 0124550E - 582458N 0125450E - 582158N 0124450E - 582758N 0123750E - 583058N 0124050E	7500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från SÅTENÄS ATS och LANDVETTER ATS. Military activities including aviation operations. Permission obtainable from SÅTENÄS ATS or LANDVETTER ATS.
ES R49A SÅTENÄS	583058N 0124050E - 583058N 0124550E - 582458N 0125450E - 582258N 0124810E - 582658N 0124229E - 582758N 0124026E - 582928N 0123920E - 583058N 0124050E	7500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från SÅTENÄS ATS och LANDVETTER ATS. Military activities including aviation operations. Permission obtainable from SÅTENÄS ATS or LANDVETTER ATS.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R49B SÅTENÄS	582928N 0123920E - 582758N 0124026E - 582658N 0124229E - 582258N 0124810E - 582158N 0124450E - 582758N 0123750E - 582928N 0123920E	7500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från SÅTENÄS ATS och LANDVETTER ATS. Military activities including aviation operations. Permission obtainable from SÅTENÄS ATS or LANDVETTER ATS.
ES R49C 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.
ES R50 MÄSTOCKA	564329N 0130650E - 564329N 0132250E - 563659N 0132150E - 563259N 0131550E - 563939N 0130050E - 564329N 0130650E	11000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC, HALMSTAD ATS eller ÄNGELHOLM ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC, HALMSTAD ATS or ÄNGELHOLM ATS.
ES R51A KALIXFORS	674659N 0202044E - 674554N 0203044E - 674323N 0203652E - 674007N 0203743E - 674208N 0202510E - 674405N 0202018E - 674659N 0202044E	14000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet med UAS upp till 1900 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC eller KIRUNA ATS. Military activities including aviation operations with UAS up to 1900 ft AMSL. Permission obtainable from STOCKHOLM ACC or KIRUNA ATS.
ES R51B KALIXFORS	674745N 0201710E - 674659N 0202044E - 674405N 0202018E - 674404N 0201427E - 674734N 0201514E - 674745N 0201710E	14000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet med UAS upp till 1900 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC eller KIRUNA ATS. Military activities including aviation operations with UAS up to 1900 ft AMSL. Permission obtainable from STOCKHOLM ACC or KIRUNA ATS.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R52 SOLLIDEN	565238N 0163713E - 565155N 0163912E - 565126N 0163850E - 565049N 0163738E - 565129N 0163548E - 565234N 0163548E - 565238N 0163713E	2000 ft AMSL ——— GND	Upprättat 1 JUN-20 AUG. Särskilda tillstånd från Transportstyrelsen krävs förutom för svenska militära luftfartyg, svenska luftfartyg som används av Polismyndigheten, 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).
ES R53 STORA SJÖFALLET	674805N 0173707E - 674129N 0180937E - 672645N 0184915E - 672354N 0184312E - 672202N 0182815E - 672633N 0181425E - 672408N 0180515E - 672324N 0175841E - 673105N 0174536E - 673306N 0173438E - 673109N 0172407E - 673314N 0171211E - 673404N 0171102E - 674805N 0173707E	FL 95 ——— GND	Nationalpark. Särskilda tillstånd från Transportstyrelsen krävs förutom operatörer som framgår av ENR 5.1 stycke 2.4.1, luftfartyg som används av Länsstyrelsen Norrbottens län, eller för renskötsel enligt Rennäringslag (1971:437). National Park. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.1, aircraft used by the County Administrative Board in Norrbotten, or for reindeer husbandry according to the Reindeer Husbandry Act (1971:437).
ES R55 KABUSA	552629N 0135750E - 552629N 0135949E - 551659N 0140619E - 551659N 0135550E - 552124N 0134750E - 552629N 0135750E	27500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC. Military activities including aviation operations. Permission obtainable from MALMÖ ACC.
ES R56 FALUN	603857N 0153948E - 603857N 0154548E - 603627N 0154548E - 603627N 0153948E - 603857N 0153948E	8000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R57 PADJELANTA	674433N 0163720E - 673404N 0171102E - 673314N 0171211E - 672425N 0170442E - 671034N 0170826E - 670614N 0170946E - 671026N 0164735E - 670851N 0163846E - 671442N 0163346E - 671311N 0162302E - Swedish/Norwegian border northward to 674433N 0163720E	FL 90 ——— GND	Nationalpark. Särskilda tillstånd från Transportstyrelsen krävs förutom operatörer som framgår av ENR 5.1 stycke 2.4.1, luftfartyg som används av Länsstyrelsen Norrbottens län, eller för renskötsel enligt Rennäringslag (1971:437). National Park. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.1, aircraft used by the County Administrative Board in Norrbotten, or for reindeer husbandry according to the Reindeer Husbandry Act (1971:437).
ES R58A TÅME	650325N 0214244E - 645455N 0214444E - 644835N 0212944E - 644911N 0211514E - 645925N 0211844E - 650325N 0214244E	40500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet upp till FL95. Tillstånd kan erhållas från STOCKHOLM ACC, LULEÅ ATS eller SKELLEFTEÅ ATS. Military activities including aviation operations up to FL95. Permission obtainable from STOCKHOLM ACC, LULEÅ ATS or SKELLEFTEÅ ATS.
ES R58B TÅME	650255N 0212244E - 650115N 0212944E - 645925N 0211844E - 645355N 0211650E - 645655N 0210944E - 650156N 0211245E - 650255N 0212244E	3500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC, LULEÅ ATS eller SKELLEFTEÅ ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC, LULEÅ ATS or SKELLEFTEÅ ATS.
ES R59 KUSTRÄSK	655655N 0212944E - 655555N 0213544E - 655225N 0213544E - 655155N 0212444E - 655455N 0212044E - 655655N 0212944E	15500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller KALLAX ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or KALLAX ATS.
ES R60 LYSEKIL	582458N 0104221E - 582458N 0111151E - 581028N 0112221E - 575358N 0111851E - 575358N 0110251E - 581528N 0105051E - 582458N 0104221E	40500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC or LANDVETTER ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or LANDVETTER ATS.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R61 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 stycke 2.4.1, luftfartyg som används av Länsstyrelsen i Jämtlands län, och för renskötsel enligt Rennäringslag (1971:437). National Park. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.1, aircraft used by the County Administrative Board in Jämtland, and for reindeer husbandry according to the Reindeer Husbandry Act (1971:437).
ES R62 SISJÖN	573905N 0115950E - 573658N 0120250E - 573458N 0115950E - 573628N 0115620E - 573905N 0115950E	1800 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet upp till 1000 ft AMSL. Tillstånd kan erhållas från MALMÖ ACC eller LANDVETTER ATS. Military activities including aviation operations up to 1000 ft AMSL. Permission obtainable from MALMÖ ACC or LANDVETTER ATS.
ES R63A STURKÖ NORD	560659N 0152849E - 560659N 0153719E - 560349N 0154719E - 555659N 0154719E - 555359N 0153949E - 555959N 0153949E - 560229N 0153604E - 560416N 0152349E - 560659N 0152849E	40500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or RONNEBY ATS.
ES R63B STURKÖ SYD	560416N 0152349E - 560229N 0153604E - 555959N 0153949E - 555359N 0153949E - 555429N 0153349E - 555759N 0152749E - 560416N 0152349E	40500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or RONNEBY ATS.
ES R63C STURKÖ INRE	561123N 0153027E - 560953N 0154829E - 560349N 0154719E - 560659N 0153719E - 560659N 0152849E - 561123N 0153027E	3500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or RONNEBY ATS.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R63D STURKÖ POTTNEHOLMEN	560854N 0153920E - 560854N 0153954E - 560830N 0153954E - 560830N 0153920E - 560854N 0153920E	2200 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or RONNEBY ATS.
ES R63E STURKÖ AU RUTA	560000N 0153300E - 560000N 0153700E - 555758N 0153700E - 555758N 0153300E - 560000N 0153300E	2200 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or RONNEBY ATS.
ES R64M TORHAMN	560759N 0161648E - 555659N 0160648E - 560439N 0155039E - 560459N 0154949E - 560759N 0161648E	21500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or RONNEBY ATS.
ES R64S TORHAMN	561459N 0160248E - 560959N 0162948E - 560459N 0162948E - 554959N 0154719E - 560349N 0154719E - 561459N 0160248E	40500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or RONNEBY ATS.
ES R66 ASKÖ	585458N 0174117E - 585158N 0175217E - 583804N 0175259E - 584358N 0173547E - 584728N 0173347E - 585158N 0173447E - 585458N 0174117E	7500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ES R67 VECKHOLM	593106N 0172402E - 593048N 0172951E - 592916N 0172931E - 592741N 0172750E - 592950N 0172342E - 593106N 0172402E	2000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet upp till 1500 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations up to 1500 ft AMSL. Permission obtainable from STOCKHOLM ACC.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R68 GRINDSJÖN	590528N 0174947E - 590528N 0175257E - 590258N 0175047E - 590428N 0174747E - 590528N 0174947E	2000 ft AMSL ——— GND	Skjutning, sprängning och UAS. Tillstånd kan erhållas från STOCKHOLM ACC. Upprättat MÅN-FRE 0700-1530 (0600-1430). Firing, blasting and UAS. Permission obtainable from STOCKHOLM ACC. Established MON-FRI 0700-1530 (0600-1430).
ES R70A HÄRNÖN	624656N 0181146E - 624656N 0183946E - 623836N 0183946E - 622656N 0182046E - 622656N 0175647E - 623356N 0175847E - 624656N 0181146E	28000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller SUNDSVALL ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or SUNDSVALL ATS.
ES R70B PRÄSTHUS	624556N 0180746E - 624556N 0181051E - 623956N 0180447E - 623956N 0180032E - 624126N 0180047E - 624556N 0180746E	4500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller SUNDSVALL ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or SUNDSVALL ATS.
ES R70C VANGSTA	623956N 0180032E - 623956N 0180946E - 623556N 0180547E - 623556N 0175947E - 623956N 0180032E	16500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller SUNDSVALL ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or SUNDSVALL ATS.
ES R70D SKÄRSVIKEN	623556N 0175747E - 623556N 0180047E - 623356N 0175847E - 623156N 0175807E - 623356N 0175247E - 623556N 0175747E	4500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller SUNDSVALL ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or SUNDSVALL ATS.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R71 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.
ES R71A 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.
ES R71B 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.
ES R71C 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.
ES R71D 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.
ES R71E 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.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R71F 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.
ES R74 ARVIDSJAUR	653525N 0190315E - 653525N 0190845E - 653355N 0191245E - 653125N 0191515E - 652955N 0191415E - 652825N 0190345E - 653255N 0190215E - 653525N 0190315E	15500 ft AMSL ——— GND	Militär verksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller ARVIDSJAUR ATS. Military activities. Permission obtainable from STOCKHOLM ACC or ARVIDSJAUR ATS.
ES R74A ARVIDSJAUR	653525N 0190315E - 653125N 0191515E - 652955N 0191415E - 652825N 0190345E - 653255N 0190215E - 653525N 0190315E	15500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC eller ARVIDSJAUR ATS. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC or ARVIDSJAUR ATS.
ES R74B ARVIDSJAUR	653525N 0190315E - 653525N 0190845E - 653355N 0191245E - 653125N 0191515E - 653525N 0190315E	15500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet upp till 1600 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC eller ARVIDSJAUR ATS. Military activities including aviation operations up to 1600 ft AMSL. Permission obtainable from STOCKHOLM ACC or ARVIDSJAUR ATS.
ES R75 SKÖVDE	581928N 0135149E - 581858N 0135549E - 581528N 0135449E - 581558N 0134949E - 581928N 0135149E	10000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC. Military activities including aviation operations. Permission obtainable from MALMÖ ACC.
ES R76 LOMBEN	661455N 0230842E - 660955N 0231242E - 660655N 0231142E - 660955N 0225543E - 661355N 0225643E - 661455N 0230842E	14500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R77 SKOGSTIBBLE	594927N 0171747E - 594658N 0171847E - 594658N 0171347E - 594857N 0171347E - 594927N 0171747E	3500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet upp till 1200 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC eller UPPSALA ATS. Military activities including aviation operations up to 1200 ft AMSL. Permission obtainable from STOCKHOLM ACC or UPPSALA ATS.
ES R78 HORSSJÖN	594657N 0134419E - 594557N 0134949E - 594147N 0134949E - 594157N 0134449E - 594357N 0134249E - 594657N 0134419E	8500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet upp till 4000 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC eller KARLSTAD ATS. Military activities including aviation operations up to 4000 ft AMSL. Permission obtainable from STOCKHOLM ACC or KARLSTAD ATS.
ES R85 HOLMÖGADD	634056N 0205045E - 634056N 0205515E - 633156N 0204615E - 633456N 0204015E - 634056N 0205045E	UNL ——— GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ES R87 SÖDERARM	595243N 0190635E - 595038N 0191356E - 594728N 0192216E - 594428N 0192446E - 593928N 0191146E - 594658N 0190247E - 595243N 0190635E	UNL ——— GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ES R88 LANDSORT	585328N 0174202E - 583958N 0175117E - 584839N 0173751E - 585328N 0174202E	UNL ——— GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ES R91 STÄRNÖ	A circle with radius 1.6 NM centred on 560829N 0145049E	UNL ——— GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ES R93 STYRSÖ	573918N 0114317E - 573918N 0114701E - 573721N 0114735E - 573644N 0114920E - 573528N 0114925E - 573458N 0114250E - 573918N 0114317E	UNL ——— GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.
ES R95 MARSTRAND	575711N 0114306E - 575623N 0114450E - 575435N 0114222E - 575458N 0113838E - 575711N 0114306E	UNL ——— GND	Tillstånd krävs endast när så tillkännages genom NOTAM eller AIP SUP. Permission required only when so is promulgated by NOTAM or AIP SUP.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R96 BERGA	590536N 0180806E - 590450N 0180852E - 590414N 0180640E - 590406N 0180635E - 590347N 0180524E - 590427N 0180412E - 590536N 0180806E	2200 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet upp till 1500 ft AMSL. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations up to 1500 ft AMSL. Permission obtainable from STOCKHOLM ACC.
ES R97 KUMLA	A circle with radius 2000 m centred on 590715N 0150718E	2000 ft AMSL ——— GND	Fängelse. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 stycke 2.2.2. Prison. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.2.2.
ES R98 HALL	A circle with radius 2000 m centred on 590946N 0174059E	2000 ft AMSL ——— GND	Fängelse. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 stycke 2.2.2. Prison. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.2.2.
ES R99 TIDAHOLM	A circle with radius 2000 m centred on 581043N 0135558E	2000 ft AMSL ——— GND	Fängelse. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 stycke 2.2.2. Prison. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.2.2.
ES R100 SALTVIK	A circle with radius 2000 m centred on 623914N 0175343E	2000 ft AMSL ——— GND	Fängelse. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 stycke 2.2.2. Prison. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.2.2.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R101 NORRTÄLJE	A circle with radius 2000 m centred on 594612N 0184226E	2000 ft AMSL ——— GND	Fängelse. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 stycke 2.2.2. Prison. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.2.2.
ES R102 HAGA	A circle with radius 1000 m centred on 592150N 0180220E	2000 ft AMSL ——— GND	Särskilda tillstånd från Transportstyrelsen krävs, förutom för luftfartyg specificerade i ENR 5.1 stycke 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.
ES R103 REMMENE	580417N 0125956E - 580125N 0130014E - 580011N 0125635E - 580044N 0125404E - 580232N 0125256E - 580417N 0125956E	20200 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC eller LANDVETTER ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC or LANDVETTER ATS.
ES R104 KÄNSÖ	574000N 0111251E - 574000N 0112851E - 574000N 0113514E - 574000N 0114424E - 573720N 0114546E - 573458N 0114650E - 573310N 0114533E - 573030N 0114339E - 573030N 0112851E - 573030N 0112631E - 574000N 0111251E	9000 ft AMSL ——— GND	Militär verksamhet. Tillstånd kan erhållas från MALMÖ ACC eller LANDVETTER ATS. Military activities. Permission obtainable from MALMÖ ACC or LANDVETTER ATS.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R104A KÄNSÖ	574000N 0113514E - 574000N 0114424E - 573720N 0114546E - 573458N 0114650E - 573310N 0114533E - 573310N 0113825E - 574000N 0113514E	9000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet upp till 2000 ft AMSL. Tillstånd kan erhållas från MALMÖ ACC eller LANDVETTER ATS. Military activities including aviation operations up to 2000 ft AMSL. Permission obtainable from MALMÖ ACC or LANDVETTER ATS.
ES R104B KÄNSÖ	574000N 0112851E - 574000N 0113514E - 574000N 0114424E - 573720N 0114546E - 573458N 0114650E - 573030N 0114339E - 573030N 0112851E - 574000N 0112851E	9000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet upp till 2000 ft AMSL. Tillstånd kan erhållas från MALMÖ ACC eller LANDVETTER ATS. Military activities including aviation operations up to 2000 ft AMSL. Permission obtainable from MALMÖ ACC or LANDVETTER ATS.
ES R104C KÄNSÖ	574000N 0111251E - 574000N 0112851E - 573030N 0112851E - 573030N 0112631E - 574000N 0111251E	9000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet upp till 2000 ft AMSL. Tillstånd kan erhållas från MALMÖ ACC eller LANDVETTER ATS. Military activities including aviation operations up to 2000 ft AMSL. Permission obtainable from MALMÖ ACC or LANDVETTER ATS.
ES R105 TUMBA	A circle with radius 1000 m centred on 591205N 0174930E	2000 ft AMSL ——— GND	Särskilt tillstånd från Transportstyrelsen krävs förutom för operatörer specificerade i ENR 5.1 punkt 2.4.1. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.1.
ES R106 VÄXJÖ	A circle with radius 1000 m centred on 565203N 0144943E	1600 ft AMSL ——— GND	Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 punkt 2.4.1 och luftfartyg som används för kraftledningsinspektion inom området, luftfartyg som används för flygvalidering av VÄXJÖ/Kronoberg flygplats och UAS som används av rättspsykiatriska regionkliniken i Växjö, upp till 120 m GND. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.1 and aircraft performing power line inspection within the area, aircraft performing measurement assignments for VÄXJÖ/Kronoberg AD and UAS operated by Kronoberg Forensic Clinic, up to 120 m GND.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R107 FORSMARK	A circle with radius 1 NM centred on 602412N 0181030E	2000 ft AMSL ——— GND	Kärnkraftverk. Särskilda tillstånd från Transportstyrelsen krävs förutom för UAS-verksamhet som genomförs av Forsmark Kraftgrupp AB och Svensk Kärnbränslehantering AB upp till 120 m GND, eller operatörer som framgår av ENR 5.1 stycke 2.4.1. Nuclear power plant. Special permission by Swedish Transport Agency is required, except for UAS-operations conducted by Forsmark Kraftgrupp AB and Svensk Kärnbränslehantering AB up to 120 m GND or operators specified in ENR 5.1 para 2.4.1.
ES R108 OSKARSHAMN	A circle with radius 1 NM centred on 572454N 0164018E	2000 ft AMSL ——— GND	Kärnkraftverk. Särskilda tillstånd från Transportstyrelsen krävs förutom för UAS-verksamhet som genomförs av OKG AB och Svensk Kärnbränsle-hantering AB upp till 120 m GND, eller operatörer som framgår av ENR 5.1 stycke 2.4.1. Nuclear power plant. Special permission by Swedish Transport Agency is required, except for UAS-operations conducted by OKG AB and Svensk Kärnbränslehantering AB up to 120 m GND or operators specified in ENR 5.1 para 2.4.1.
ES R109 RINGHALS	A circle with radius 1 NM centred on 571530N 0120636E	2000 ft AMSL ——— GND	Kärnkraftverk. Särskilt tillstånd från Transportstyrelsen krävs förutom för operatörer som framgår av ENR 5.1 stycke 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.
ES R110 HUDDINGE	A circle with radius 1000 m centred on 591252N 0175557E	1500 ft AMSL ——— GND	Särskilt tillstånd från Transportstyrelsen krävs förutom för operatörer specificerade i ENR 5.1 punkt 2.4.1. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.1
ES R111 SÖRENTORP	A circle with radius 1000 m centred on 592348N 0175929E	2000 ft AMSL ——— GND	Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 punkt 2.4.1. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.1.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R112 VÄLLINGE	A circle with radius 1.8 NM centred on 591543N 0174053E	2000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ES R113 STOCKHOLM	592015N 0180200E - 592010N 0180509E - 591914N 0180429E - 591940N 0180141E - 592015N 0180200E	1000 ft AMSL ——— GND	Drönarflygning är förbjuden med följande undantag : Drönare som används av polisen, svenska 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.
ES R114 DJURÖ	585235N 0132759E - 585232N 0132917E - 585117N 0133052E - 585008N 0133035E - 584933N 0132803E - 584924N 0132433E - 584953N 0132419E - 585235N 0132759E	1200 ft AMSL ——— GND	Nationalpark. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 stycke 2.4.1, och Länsstyrelsen i Västra Götalands län. National Park. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.1, and the County Administrative Board in Västra Götaland.
ES R115 FULUFJÄLLET	614034N 0123741E - 613440N 0125503E - 612435N 0125531E - 612316N 0124941E - Swedish/Norwegian border northward to 613407N 0123125E - 613932N 0123015E - 614034N 0123741E	FL 70 ——— GND	Nationalpark. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 stycke 2.4.1, och Länsstyrelsen i Dalarnas län. National Park. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.1, the County Administrative Board in Dalarna.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R116 FÄRNEBOFJÄRDEN	601744N 0165024E - 601731N 0165238E - 601631N 0165258E - 601547N 0165447E - 601422N 0165346E - 601540N 0165139E - 601500N 0164941E - 601318N 0165159E - 601030N 0164634E - 600840N 0164855E - 600553N 0164327E - 600753N 0164141E - 600852N 0164422E - 601143N 0164211E - 601100N 0163917E - 601120N 0163832E - 601159N 0164139E - 601303N 0164125E - 601408N 0164506E - 601251N 0164744E - 601715N 0164841E - 601744N 0165024E	1200 ft AMSL ——— GND	Nationalpark. Särskilda tillstånd från Transportstyrelsen krävs förutom för operatörer som specificeras i ENR 5.1 stycke 2.4.1, och Länsstyrelsen i Gävleborgs län. National Park. Special permission by Swedish Transport Agency is required, except for operators specified in ENR 5.1 para 2.4.1, the County Administrative Board in Gävleborg.
ES R117 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 stycke 2.4.1. Oil refinery. Special permission by Swedish Transport Agency is required, except for UAS-operations conducted by Nynas AB up to 120 m GND or operators specified in ENR 5.1 para 2.4.1.
ES R118 TÄRNÖ NORTH	560659N 0150449E - 560416N 0152349E - 555759N 0152749E - 555429N 0153349E - 555810N 0144850E - 560629N 0145819E - 560659N 0150449E	40500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC och RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC and RONNEBY ATS.
ES R119 TÄRNÖ WEST	555810N 0144850E - 555629N 0150949E - 555353N 0150949E - 555354N 0150930E - 555333N 0150905E - 555312N 0150840E - 555252N 0150813E - 555233N 0150744E - 555214N 0150715E - 555203N 0150658E - 555150N 0150635E - 555132N 0150603E - 555115N 0150531E - 555059N 0150457E - 555043N 0150422E - 555028N 0150346E - 555014N 0150310E - 555000N 0150232E - 554951N 0150206E - 554939N 0150130E - 554927N 0150051E - 554916N 0150011E - 554905N 0145931E - 554855N 0145850E - 554848N 0145816E - 554843N 0145751E - 554835N 0145709E - 554827N 0145626E - 554821N 0145543E - 554815N 0145500E - 554810N 0145416E - 554807N 0145332E - 554804N 0145248E - 554756N 0145019E - 554748N 0144756E - 554719N 0144531E - 554648N 0144302E - 554617N 0144032E - 554609N 0143949E - 554959N 0143949E - 555810N 0144850E	40500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC och RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC and RONNEBY ATS.

Restricted areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES R120 TÄRNÖ EAST	555629N 0150949E - 555359N 0153949E - 554452N 0153949E - 554452N 0153945E - 554455N 0153901E - 554459N 0153817E - 554504N 0153733E - 554509N 0153650E - 554516N 0153607E - 554523N 0153524E - 554531N 0153442E - 554540N 0153401E - 554550N 0153320E - 554600N 0153239E - 554612N 0153200E - 554624N 0153121E - 554637N 0153042E - 554650N 0153005E - 554705N 0152929E - 554720N 0152853E - 554735N 0152818E - 554752N 0152745E - 554809N 0152712E - 554827N 0152640E - 554835N 0152626E - 555011N 0152345E - 555148N 0152103E - 555323N 0151824E - 555337N 0151412E - 555348N 0151111E - 555353N 0150949E - 555629N 0150949E	40500 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC och RONNEBY ATS. Military activities including aviation operations. Permission obtainable from MALMÖ ACC and RONNEBY ATS.
ES R121 REVINGE	554815N 0132728E - 554731N 0133134E - 554659N 0133700E - 554629N 0134202E - 553802N 0134044E - 553732N 0134048E - 553809N 0132944E - 553841N 0132931E - 553942N 0132815E - 554607N 0132610E - 554815N 0132728E	2000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC. Military activities including aviation operations. Permission obtainable from MALMÖ ACC.
ES R121A REVINGE	554815N 0132728E - 554731N 0133134E - 554659N 0133700E - 553841N 0132931E - 553942N 0132815E - 554607N 0132610E - 554815N 0132728E	2000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC. Military activities including aviation operations. Permission obtainable from MALMÖ ACC.
ES R121B REVINGE	554659N 0133700E - 554629N 0134202E - 553802N 0134044E - 553732N 0134048E - 553809N 0132944E - 553841N 0132931E - 554659N 0133700E	2000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från MALMÖ ACC. Military activities including aviation operations. Permission obtainable from MALMÖ ACC.
ES R122 MUSKÖ	590832N 0181840E - 590058N 0182917E - 585458N 0180724E - 585953N 0175447E - 590347N 0180524E - 590406N 0180635E - 590414N 0180640E - 590450N 0180851E - 590832N 0181840E	4000 ft AMSL ——— GND	Militär verksamhet inklusive flygverksamhet. Tillstånd kan erhållas från STOCKHOLM ACC. Military activities including aviation operations. Permission obtainable from STOCKHOLM ACC.
ES R200A TORSBY	604300N 0133700E - 601400N 0135100E - 601400N 0130200E - 602800N 0125000E - 604300N 0133700E	FL 195 ——— 5000 ft AMSL	Segelflygning i moln. Tillstånd att passera ges av STOCKHOLM ACC. Bestämmelser: Se ENR 5.1 punkt 2.3. Soaring in clouds. Permission to cross shall be obtained from STOCKHOLM ACC. Provisions: See ENR 5.1 para 2.3.

Restricted areas

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

Restricted areas

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

3 Farliga områden

3.1 Allmänt

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

3.1.2 Farligt område är upprättat H24 om inte annat anges.

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

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

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

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

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

3.2 Område inom vilket skjutning från marken förekommer

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

3.3 Område inom vilket skjutning från luftfartyg mot luftmål förekommer

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

3.4 Dagbrott

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

3.5 Tillfälliga farliga områden

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

3 Danger areas

3.1 General

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

3.1.2 Danger areas are established H24 unless otherwise specified.

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

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

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

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

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

3.2 Areas where ground firing is being practised

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

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

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

3.4 Surface quarries

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

3.5 Temporary danger areas

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

3.6 Flight Plan Buffer Zone (FBZ)

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

3.7 Område inom vilket flygning sker med obemannade luftfartyg.

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

3.8 Förteckning över farliga områden / List of danger areas

3.6 Flight Plan Buffer Zone (FBZ)

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

3.7 Area where operations with unmanned aircraft systems takes place.

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

Danger areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES D138 BORNHOLM NORTH	552959N 0151449E - 552959N 0154949E - 551959N 0154949E - 550300N 0151449E - 552959N 0151449E	20000 ft AMSL ——— GND	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)
ES D139 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.
ES D155 AITIK	670541N 0205825E - 670315N 0205943E - 670254N 0205539E - 670521N 0205405E - 670541N 0205825E	4000 ft AMSL ——— GND	Sprängning/Dagbrott. Information om aktivitet ges av Boliden Mineral, TEL +46 (0)910 77 40 71. Blasting/Surface quarry. Information about activity obtainable from Boliden Mineral, TEL +46 (0)910 77 40 71.
ES D160 SKAGEN	582458N 0103451E - 582458N 0104221E - 581528N 0105051E - 575358N 0110251E - 575358N 0110051E - 582458N 0103451E	40500 ft AMSL ——— GND	Se punkt 3.1.1. Information om pågående verksamhet kan erhållas av MALMÖ ACC. See para 3.1.1. Information about activity obtainable from MALMÖ ACC.
ES D171 HÄRNÖN EAST	623836N 0183946E - 622656N 0183946E - 622656N 0182046E - 623836N 0183946E	40500 ft AMSL ——— GND	Se punkt 3.1.1. Information om pågående verksamhet kan erhållas av STOCKHOLM ACC. See para 3.1.1. Information about activity obtainable from STOCKHOLM ACC.

Danger areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES D175A KOPPARSTENARNA	584023N 0183024E - 583304N 0184849E - 581813N 0180542E - 582943N 0175817E - 583243N 0181147E - 584023N 0183024E	40500 ft AMSL ——— GND	Se punkt 3.1.1. Information om pågående verksamhet kan erhållas av STOCKHOLM ACC eller MALMÖ ACC. See para 3.1.1. Information about activity obtainable from STOCKHOLM ACC or MALMÖ ACC.
ES D175B KOPPARSTENARNA	585408N 0190132E - 583635N 0185912E - 583304N 0184849E - 584023N 0183024E - 584828N 0185017E - 585408N 0190132E	40500 ft AMSL ——— GND	Se punkt 3.1.1. Information om pågående verksamhet kan erhållas av STOCKHOLM ACC eller MALMÖ ACC. See para 3.1.1. Information about activity obtainable from STOCKHOLM ACC or MALMÖ ACC.
ES D175C KOPPARSTENARNA	585408N 0190132E - 584328N 0191947E - 583635N 0185912E - 585408N 0190132E	40500 ft AMSL ——— GND	Se punkt 3.1.1. Information om pågående verksamhet kan erhållas av STOCKHOLM ACC eller MALMÖ ACC. See para 3.1.1. Information about activity obtainable from STOCKHOLM ACC or MALMÖ ACC.
ES D177 KÅGE	A circle with radius 2000 m centred on 645525N 0203544E	4000 ft AMSL ——— GND	Sprängning/Dagbrott. Information om aktivitet ges av Mandalay Resources Björkdalsgruvan AB, TEL +46 (0)910 725 750. Blasting/surface quarry. Information about activity obtainable from Mandalay Resources Björkdalsgruvan AB, TEL +46 (0)910 725 750.
ES D178 SALA	A circle with radius 500 m centred on 595430N 0163359E	4500 ft AMSL ——— GND	Sprängning/Dagbrott. Information om aktivitet ges av Björka Mineral AB, TEL +46 (0)768 23 75 02 eller +46 (0)224 563 92. Blasting/Surface quarry. Information about activity obtainable from Björka Mineral AB, TEL +46 (0)768 23 75 02 or +46 (0)224 563 92.
ES D179 GRUVBERGET/ SVAPPAVAARA	673931N 0205916E - 673931N 0210004E - 673926N 0210029E - 673917N 0210051E - 673812N 0210228E - 673732N 0210138E - 673746N 0210022E - 673845N 0205820E - 673902N 0205812E - 673920N 0205830E - 673931N 0205916E	3000 ft AMSL ——— GND	Sprängning/Dagbrott. Information om aktivitet ges av LKAB, TEL +46 (0)980 710 01. Blasting/Surface quarry. Information about activity obtainable from LKAB, TEL +46 (0)980 710 01.

Danger areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES D180 KAUNISVAARA	672633N 0231821E - 672539N 0232407E - 672333N 0232110E - 672426N 0231551E - 672633N 0231821E	4500 ft AMSL ——— GND	Sprängning/Dagbrott. Information om aktivitet ges av Kaunis Iron, TEL +46 (0)70 377 35 22. Blasting/Surface quarry. Information about activity obtainable from Kaunis Iron, TEL +46 (0)70 377 35 22.
ES D181 MERTAINEN-KIRUNA	A circle with radius 1 NM centred on 674222N 0204717E	4000 ft AMSL ——— GND	Sprängning/Dagbrott. Upprättat dagligen 0600-2100 (0500-2000). Information om aktivitet ges av LKAB, TEL +46 (0)705 435 253. Blasting/Surface quarry. Established daily 0600-2100 (0500-2000). Information about activity obtainable from LKAB, TEL +46 (0)705 435 253.
ES D182 SATTAVAARA	A circle with radius 2000 m centred on 675247N 0210353E	UNL ——— GND	Verksamhet med laser. Information om aktivitet ges av KIRUNA ATS eller STOCKHOLM ACC. Laser activity. Information about activity obtainable from KIRUNA ATS or STOCKHOLM ACC.
ES D184 BOTHNIA NORTH	652809N 0231158E - 652233N 0235437E - 644100N 0225500E - 635829N 0215742E - 635829N 0211550E - 650137N 0220919E - 645832N 0222344E - 652626N 0230143E - 652809N 0231158E	FL 660 ——— SFC	AMC Manageable Area Området får användas för gränsöverskridande operationer tillsammans med angränsande område i Helsinki FIR enligt avtal med Sverige och Finland mellan FL95 och FL660. Planerade aktiviteter kommer att meddelas av eAUP. Information om aktivitet fås från STOCKHOLM ACC. AMC Manageable Area The area may be used for cross border operations together with adjacent area in Helsinki FIR in accordance with agreements with Sweden and Finland between FL95 and FL660. Planned activities will be notified by eAUP. Information about activity obtainable from STOCKHOLM ACC.
ES D184Z BOTHNIA NORTH	653120N 0231140E - 652509N 0235847E - 644100N 0225500E - 635529N 0215433E - 635529N 0210601E - 650550N 0220520E - 650229N 0222056E - 652849N 0225641E - 653120N 0231140E	FL 660 ——— SFC	Endast för färdplanering IFR. For IFR flight planning purposes only.

Danger areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES D185 BOTHNIA SOUTH	635829N 0215742E - 633700N 0213000E - 633619N 0212603E - 634224N 0210302E - 635829N 0211550E - 635829N 0215742E	FL 660 ——— SFC	AMC Manageable Area Området får användas för gränsöverskridande operationer tillsammans med angränsande område i Helsinki FIR enligt avtal med Sverige och Finland mellan FL95 och FL660. Planerade aktiviteter kommer att meddelas av eAUP. Information om aktivitet fås från STOCKHOLM ACC. AMC Manageable Area The area may be used for cross border operations together with adjacent area in Helsinki FIR in accordance with agreements with Sweden and Finland between FL95 and FL660. Planned activities will be notified by eAUP. Information about activity obtainable from STOCKHOLM ACC.
ES D185Z BOTHNIA SOUTH	640129N 0211059E - 640129N 0220231E - 633700N 0213000E - 633458N 0211759E - 634105N 0205449E - 640129N 0211059E	FL 660 ——— SFC	Endast för färdplanering IFR. For IFR flight planning purposes only.
ES D186 TRÄNGSLETDAMMEN	A circle with radius 1000 M centred on 612244N 0134402E	2700 ft AMSL ——— GND	Sprängning och UAS. Upprättat MÅN-TORS 0900-1900 (0800-1800). Information om aktivitet ges av Vattenrallarn AB, TEL +46 (0)706 328 830. Blasting and UAS. Established MON-THU 0900-1900 (0800-1800). Information about activity obtainable from Vattenrallarn AB, TEL +46 (0)706 328 830.
ES D187 HULTSFRED	573200N 0154849E - 573139N 0155028E - 573055N 0155019E - 573130N 0154813E - 573146N 0154728E - 573155N 0154806E - 573200N 0154849E	1500 ft AMSL ——— GND	Verksamhet med UAS. Upprättat 0300-2000 (0200-1900). Information om aktivitet ges av Hultsfred flygplats, frekvens 123,550 MHz, eller TEL +46 (0)721 994 534 eller +46 (0)730 969 552. Flying with UAS. Established daily 0300-2000 (0200-1900). Information about activity obtainable from Hultsfred airport frequency 123,550 MHz, or TEL +46 (0)721 994 534 or +46 (0)730 969 552.

Danger areas

Identification Name	Lateral limits	Vertical limits	Remarks (nature of hazard, permission unit, time of activity)
ES D188 HANÖ WEST	555354N 0150930E - 555353N 0150949E - 553959N 0150949E - 553959N 0143949E - 554609N 0143949E - 554617N 0144032E - 554648N 0144302E - 554719N 0144531E - 554748N 0144756E - 554756N 0145019E - 554804N 0145248E - 554807N 0145332E - 554810N 0145416E - 554815N 0145500E - 554821N 0145543E - 554827N 0145626E - 554835N 0145709E - 554843N 0145751E - 554848N 0145816E - 554855N 0145850E - 554905N 0145931E - 554916N 0150011E - 554927N 0150051E - 554939N 0150130E - 554951N 0150206E - 555000N 0150232E - 555014N 0150310E - 555028N 0150346E - 555043N 0150422E - 555059N 0150457E - 555115N 0150531E - 555132N 0150603E - 555150N 0150635E - 555203N 0150658E - 555214N 0150715E - 555233N 0150744E - 555252N 0150813E - 555312N 0150840E - 555333N 0150905E - 555354N 0150930E	40500 ft AMSL ——— GND	Se punkt 3.1.1. Information om pågående verksamhet kan erhållas av MALMÖ ACC. See para 3.1.1. Information about activity obtainable from MALMÖ ACC.
ES D189 HANÖ EAST	555353N 0150949E - 555348N 0151111E - 555337N 0151412E - 555323N 0151824E - 555148N 0152103E - 555011N 0152345E - 554835N 0152626E - 554827N 0152640E - 554809N 0152712E - 554752N 0152745E - 554735N 0152818E - 554720N 0152853E - 554705N 0152929E - 554650N 0153005E - 554637N 0153042E - 554624N 0153121E - 554612N 0153200E - 554600N 0153239E - 554550N 0153320E - 554540N 0153401E - 554531N 0153442E - 554523N 0153524E - 554516N 0153607E - 554509N 0153650E - 554504N 0153733E - 554459N 0153817E - 554455N 0153901E - 554452N 0153945E - 554452N 0153949E - 553959N 0153949E - 553959N 0150949E - 555353N 0150949E	40500 ft AMSL ——— GND	Se punkt 3.1.1. Information om pågående verksamhet kan erhållas av MALMÖ ACC. See para 3.1.1. Information about activity obtainable from MALMÖ ACC.
ES D190 KATTEGATT	574000N 0111251E - 573030N 0112631E - 573030N 0112046E - 574000N 0111251E	9000 ft AMSL ——— GND	Se punkt 3.1.1. Information om pågående verksamhet kan erhållas av MALMÖ ACC eller LANDVETTER ATS. See para 3.1.1. Information about activity obtainable from MALMÖ ACC or LANDVETTER ATS.

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	14902	KRIEGERS FLAK	550258.0N 0130404.0E	617	617	F R/FLG W	Wind turbine
	14903	KRIEGERS FLAK	550245.0N 0130034.0E	617	617	F R/FLG W	Wind turbine
	14904	KRIEGERS FLAK	550231.0N 0130447.0E	617	617	F R/FLG W	Wind turbine
	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
55N 14E	20	KIVIK	554005.1N 0140929.0E	354	938	F R	Mast
	21	GLIMMINGE	553004.4N 0141539.3E	361	585	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	555254.5N 0140929.2E (*)	459	479	FLG R	Wind turbine
	8607	LYNGBY	555249.9N 0140953.7E (*)	459	476	FLG R	Wind turbine
	9061	BORRBY	552813.1N 0141013.3E (*)	328	476	F R	Wind turbine
	9547	HUARÖD	555017.7N 0140027.8E (*)	328	853	F R	Mast
	9626	BORRBY	552821.7N 0141012.0E (*)	331	479	FLG R	Wind turbine
	9802	EVERÖD	555307.0N 0140935.0E (*)	459	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	552815.4N 0141128.1E (*)	328	486	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
56N 12E	25	HALMSTAD/OSKARSTRÖM	564723.9N 0125616.9E	1066	1550	F R/FLG W	Mast
	26	HÄLSINGBORG	560043.5N 0124246.6E (*)	400	423	F R	Chimney
	27	HÄLSINGBORG/OLYMPIA	560311.7N 0124229.4E (*)	361	492	F R	Mast
	750	HELSINGBORG 2	560205.5N 0124140.6E (*)	394	404	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
	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
	9265	MIDDELGRUND	563341.0N 0120616.9E (*)	394	394	F R	Mast
	9394	LINDHULT	565655.4N 0122758.5E (*)	459	509	FLG R	Wind turbine
	9395	LINDHULT	565646.6N 0122815.0E (*)	459	509	FLG R	Wind turbine
	9396	LINDHULT	565637.9N 0122831.5E (*)	459	505	FLG R	Wind turbine
	9397	LINDHULT	565629.2N 0122847.9E (*)	459	509	FLG R	Wind turbine
	10019	TORUP	565513.3N 0125905.6E (*)	492	1040	FLG R	Wind turbine
	10020	TORUP	565526.3N 0125910.5E (*)	492	1093	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	11250	VESSIGEBRO	565940.0N 0124359.4E (*)	492	965	FLG R	Wind turbine
	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	565515.3N 0124925.3E (*)	492	1037	FLG R	Wind turbine
	11918	ALERED	565535.1N 0124926.5E (*)	492	1010	FLG R	Wind turbine
	12249	HÖGANÄS	561353.1N 0123433.9E (*)	492	531	FLG R	Wind turbine
	12250	HÖGANÄS	561407.8N 0123433.9E (*)	492	531	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	446	FLG R	Wind turbine
	12463	HELSINGBORG	561024.1N 0124614.8E (*)	417	446	FLG R	Wind turbine
	12482	HELSINGBORG	561025.2N 0124552.5E (*)	417	449	FLG R	Wind turbine
	12483	HELSINGBORG	561027.0N 0124532.0E (*)	417	446	FLG R	Wind turbine
	12484	HELSINGBORG	561015.9N 0124535.4E (*)	417	446	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	560951.6N 0124547.2E (*)	492	525	FLG R	Wind turbine
	12488	HELSINGBORG	560955.8N 0124524.4E (*)	492	525	FLG R	Wind turbine
	12489	HELSINGBORG	561002.0N 0124503.7E (*)	492	525	FLG R	Wind turbine
	12490	HELSINGBORG	560944.5N 0124501.9E (*)	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
56N 13E	1050	HYLTE	565840.9N 0131004.3E	335	768	F R	Mast
	1898	TRARYD	563416.2N 0134451.0E	335	816	F R	Mast
	7815	VINSLÖV	560644.6N 0135616.4E (*)	328	390	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
	8304	BÖKHULT	563849.8N 0130740.8E (*)	433	846	F R	Mast
	9070	HINNERYD	563734.2N 0134017.0E (*)	328	889	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	562719.3N 0131521.7E (*)	492	801	FLG R	Wind turbine
	9292	HISHULT	562708.4N 0131508.5E (*)	492	810	FLG R	Wind turbine
	9293	HISHULT	562711.1N 0131536.7E (*)	492	804	FLG R	Wind turbine
	9294	HISHULT	562647.8N 0131512.3E (*)	492	771	FLG R	Wind turbine
	9295	HISHULT	562649.7N 0131543.1E (*)	492	846	FLG R	Wind turbine
	9296	HISHULT	562641.3N 0131556.4E (*)	492	843	FLG R	Wind turbine
	9297	HISHULT	562632.6N 0131614.6E (*)	492	833	FLG R	Wind turbine
	9298	HISHULT	562641.2N 0131639.8E (*)	492	823	FLG R	Wind turbine
	9299	HISHULT	562629.9N 0131643.7E (*)	492	823	FLG R	Wind turbine
	9300	HISHULT	562640.5N 0131700.1E (*)	492	801	FLG R	Wind turbine
	9496	OVESHOLM	560102.5N 0135822.1E (*)	328	591	F R	Mast
	9550	SKÅNES FAGERHULT	562037.2N 0133014.8E (*)	328	771	F R	Mast
	9620	FEMSJÖ	565403.1N 0131430.4E (*)	328	843	F R	Mast
	9745	PERSTORP	560926.7N 0132506.9E (*)	394	758	F R	Mast
	10017	TORUP	565508.0N 0130034.8E (*)	492	981	FLG R	Wind turbine
	10018	TORUP	565542.3N 0130042.6E (*)	492	1004	FLG R	Wind turbine
	10023	DALSHULT	565312.7N 0130122.1E (*)	492	1076	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
	10093	TYRINGE	560717.0N 0133509.9E (*)	328	774	F R	Mast
	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	563231.7N 0132109.1E (*)	492	902	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	563141.1N 0132307.4E (*)	492	892	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
	10642	KNÄRED	563148.6N 0132125.6E (*)	344	781	F R	Mast
	10643	KNÄRED	563215.8N 0132258.0E (*)	344	801	F R	Mast
	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
	11114	MOSHULT	565139.0N 0130522.2E (*)	328	873	F R	Mast
	11121	SKOGABY	563212.1N 0131251.6E (*)	492	804	FLG R	Wind turbine
	11122	SKOGABY	563218.4N 0131405.2E (*)	492	817	FLG R	Wind turbine
	11123	SKOGABY	563224.4N 0131339.9E (*)	492	915	FLG R	Wind turbine
	11124	SKOGABY	563208.3N 0131439.6E (*)	492	892	FLG R	Wind turbine
	11125	SKOGABY	563220.5N 0131512.1E (*)	492	830	FLG R	Wind turbine
	11279	PUTSERED	562908.0N 0132344.2E (*)	492	906	FLG R	Wind turbine
	11280	KNÄRED	563209.6N 0131540.5E (*)	492	833	FLG R	Wind turbine
	11281	KNÄRED	563229.1N 0131547.1E (*)	492	876	FLG R	Wind turbine
	11282	KNÄRED	563233.8N 0131619.6E (*)	492	938	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
	11283	KNÄRED	563301.5N 0131533.4E (*)	492	919	FLG R	Wind turbine
	11438	FYLLINGE	563916.9N 0130009.0E (*)	476	725	FLG R	Wind turbine
	11466	SKOGABY	563235.7N 0131254.2E (*)	476	902	FLG R	Wind turbine
	11467	SKOGABY	563227.2N 0131207.3E (*)	476	846	FLG R	Wind turbine
	11468	SKOGABY	563238.6N 0131228.8E (*)	476	869	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
	11627	KNÄRED	562922.9N 0131731.9E (*)	472	846	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	560551.5N 0132509.5E (*)	492	863	F R	Mast
	11955	KNÄRED/PUTSERED	562811.9N 0132351.8E (*)	492	919	FLG W	Wind turbine
	11956	KNÄRED/PUTSERED	562829.4N 0132358.8E (*)	492	879	FLG W	Wind turbine
	11957	KNÄRED/PUTSERED	562834.6N 0132430.6E (*)	492	902	FLG W	Wind turbine
	11958	KNÄRED/PUTSERED	562850.9N 0132429.6E (*)	492	873	FLG W	Wind turbine
	11959	KNÄRED/PUTSERED	562820.9N 0132432.5E (*)	492	1004	FLG W	Wind turbine
	11960	KNÄRED/PUTSERED	562851.7N 0132500.7E (*)	492	876	FLG W	Wind turbine
	11961	KNÄRED/PUTSERED	562842.4N 0132524.9E (*)	492	873	FLG W	Wind turbine
	11962	KNÄRED/PUTSERED	562838.0N 0132629.6E (*)	492	853	FLG W	Wind turbine
	11963	KNÄRED/PUTSERED	562822.4N 0132649.0E (*)	492	922	FLG W	Wind turbine
	11964	KNÄRED/PUTSERED	562847.1N 0132654.1E (*)	492	883	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	561453.7N 0130509.9E (*)	492	886	FLG R	Wind turbine
	12705	MUNKA-LJUNGBY	561436.9N 0130606.3E (*)	492	886	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	561450.6N 0130527.4E (*)	492	883	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
56N 14E	47	KARLSHAMN/1	561336.9N 0144631.2E	1099	1325	FLG W	Mast
	48	KARLSHAMN STJÄRNÖ	560911.4N 0144957.1E	463	464	F R	Chimney
	50	VISLANDA	564832.4N 0142316.7E	715	1353	F R/FLG W	Mast
	992	HOLLSTORP	565158.7N 0145257.3E	735	1414	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
	9343	JÄMSHÖG	561351.9N 0142904.2E (*)	328	804	F R	Mast
	9366	SÖLVESBORG	560412.6N 0144014.4E (*)	328	351	FLG R	Wind turbine
	9367	SÖLVESBORG	560407.7N 0144025.2E (*)	328	344	FLG R	Wind turbine
	9368	SÖLVESBORG	560402.9N 0144036.0E (*)	328	344	FLG R	Wind turbine
	9369	SÖLVESBORG	560358.0N 0144046.8E (*)	328	344	FLG R	Wind turbine
	9497	ARKELSTORP	560822.5N 0141328.4E (*)	328	584	F R	Mast
	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	565159.2N 0142036.5E (*)	328	971	F R	Mast
	9988	LÖRBY	560432.4N 0144006.9E (*)	456	463	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
	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
	10618	LAGAN	565524.1N 0140411.1E (*)	394	961	F R	Mast
	10628	RYSSBY	565233.5N 0140719.2E (*)	394	961	F R	Mast
	10654	SÖLVESBORG	560254.9N 0143812.1E (*)	456	466	FLG R	Wind turbine
	10655	SÖLVESBORG	560257.1N 0143750.6E (*)	456	469	FLG R	Wind turbine
	10680	MJÄLLBY	560146.3N 0144008.3E (*)	456	482	FLG R	Wind turbine
	10689	MÖRRUM	561104.4N 0144253.6E (*)	328	397	F R	Mast
	10697	MÅNASKEN	561850.3N 0143851.8E (*)	328	837	F R	Mast
	10759	RINKABY	560020.3N 0141925.6E (*)	459	495	FLG R	Wind turbine
	10760	RINKABY	560009.4N 0141944.8E (*)	459	499	FLG R	Wind turbine
	11084	EKESTAD	560744.9N 0141313.5E (*)	482	669	FLG R	Wind turbine
	11085	EKESTAD	560758.4N 0141327.8E (*)	482	787	FLG R	Wind turbine
	11086	EKESTAD	560810.9N 0141334.8E (*)	482	787	FLG R	Wind turbine
	11087	EKESTAD	560822.8N 0141333.7E (*)	482	725	FLG R	Wind turbine
	11088	EKESTAD	560835.0N 0141321.8E (*)	482	702	FLG R	Wind turbine
	11440	ARKELSTORP	561110.1N 0141825.1E (*)	476	902	FLG R	Wind turbine
	12074	YSANE	560520.1N 0144009.7E (*)	492	509	FLG R	Wind turbine
	12075	YSANE	560513.9N 0144028.1E (*)	492	505	FLG R	Wind turbine
	12117	KRISTIANSTAD	560035.7N 0141615.0E (*)	476	509	FLG R	Wind turbine
	12118	KRISTIANSTAD	560038.5N 0141638.0E (*)	476	512	FLG R	Wind turbine
	12906	RYD	562549.0N 0144614.0E (*)	400	863	F R	Mast
	14417	MÖRRUM	560941.5N 0144549.6E (*)	361	381	F R	Chimney
	14464	ALVESTA	565338.5N 0142031.9E	689	1312	FLG W	Wind turbine
	14465	ALVESTA	565314.8N 0142010.0E	689	1296	FLG R	Wind turbine
	14466	ALVESTA	565248.4N 0141820.1E	689	1263	FLG W	Wind turbine
	14467	ALVESTA	565248.8N 0141913.8E	689	1280	FLG R	Wind turbine
	14468	ALVESTA	565252.8N 0142004.0E	689	1306	FLG R	Wind turbine
	14469	ALVESTA	565226.1N 0141851.8E	689	1312	FLG R	Wind turbine
	14470	ALVESTA	565230.0N 0142022.1E	689	1345	FLG R	Wind turbine
	14471	ALVESTA	565156.5N 0141825.4E	689	1296	FLG W	Wind turbine
	14472	ALVESTA	565207.4N 0142003.8E	689	1358	FLG R	Wind turbine
	14473	ALVESTA	565154.7N 0141915.7E	689	1362	FLG R	Wind turbine
	14474	ALVESTA	565133.0N 0141910.6E	689	1329	FLG R	Wind turbine
	14475	ALVESTA	565139.4N 0142005.1E	689	1322	FLG R	Wind turbine
	14476	ALVESTA	565109.3N 0141848.6E	689	1329	FLG W	Wind turbine
	14477	ALVESTA	565114.5N 0141941.5E	689	1329	FLG R	Wind turbine
	14478	ALVESTA	565115.5N 0142031.7E	689	1293	FLG W	Wind turbine
	14479	ALVESTA	565149.9N 0142101.4E	689	1329	FLG R	Wind turbine
	14480	ALVESTA	565214.7N 0142103.8E	689	1355	FLG R	Wind turbine
	14481	ALVESTA	565208.8N 0142213.7E	689	1345	FLG W	Wind turbine
	14482	ALVESTA	565241.5N 0142307.9E	689	1378	FLG R	Wind turbine
	14483	ALVESTA	565300.1N 0142335.2E	689	1345	FLG W	Wind turbine
	14484	ALVESTA	565314.5N 0142324.6E	689	1348	FLG R	Wind turbine
	14485	ALVESTA	565330.6N 0142324.3E	689	1362	FLG W	Wind turbine
	15332	RYD	562800.3N 0143624.9E	656	1171	FLG W	Wind turbine
	15333	RYD	562745.8N 0144000.3E	656	1152	FLG W	Wind turbine
	15334	RYD	562652.1N 0143934.3E	656	1155	FLG W	Wind turbine
	15335	RYD	562726.5N 0143933.7E	656	1171	F R	Wind turbine
	15336	RYD	562719.4N 0143901.8E	656	1155	F R	Wind turbine
	15337	RYD	562708.6N 0143925.8E	656	1158	F R	Wind turbine
	15338	RYD	562703.8N 0143856.7E	656	1155	FLG W	Wind turbine
	15339	RYD	562850.7N 0143625.2E	656	1168	FLG W	Wind turbine
56N 15E	62	TORHAMN 1	560823.5N 0154952.5E	361	454	F R	Mast
	63	TORHAMN 2	560554.7N 0155158.2E	341	365	F R	Mast
	67	EMMABODA/BÄLSHULT	564622.8N 0153449.6E	1066	1758	FLG W	Mast
	71	TINGSRYD 1	563120.3N 0150327.2E	328	964	F R	Mast
	72	TVING	561630.3N 0152916.3E	696	789	F R/FLG W	Mast, Note: Support cables within radius 300 m.

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	1766	BACKARYD	562135.7N 0151037.3E	335	707	F R	Mast, Flash daylight only.
	2376	EMMABODA	563903.5N 0153129.5E	377	863	F R/FLG W	Mast
	9244	HERÅKRA	565238.3N 0151403.3E (*)	394	1178	F R	Mast
	9267	BRÄKNE-HOBY	561200.0N 0150926.2E (*)	328	482	F R	Mast
	9285	BRÄNTEKNUVA	561512.1N 0153217.9E (*)	328	574	FLG R	Wind turbine
	9426	RAMDALA	561032.4N 0154527.6E (*)	463	479	FLG R	Wind turbine
	9427	RAMDALA	561041.9N 0154514.2E (*)	463	479	FLG R	Wind turbine
	9428	RAMDALA	561054.7N 0154457.2E (*)	463	469	FLG R	Wind turbine
	9429	RAMDALA	561107.3N 0154439.8E (*)	463	492	FLG R	Wind turbine
	9601	HULTET	562228.8N 0154536.0E (*)	492	820	FLG R	Wind turbine
	9602	HULTET	562248.4N 0154525.3E (*)	492	837	FLG R	Wind turbine
	9603	HULTET	562236.8N 0154507.7E (*)	492	833	FLG R	Wind turbine
	9604	HULTET	562300.4N 0154500.6E (*)	492	846	FLG R	Wind turbine
	9605	HULTET	562256.9N 0154546.8E (*)	492	820	FLG R	Wind turbine
	9708	HERRÅKRA	565437.5N 0151345.8E (*)	328	1194	F R	Mast
	10356	ORREFORS	564810.1N 0154037.0E (*)	558	1142	FLG W	Wind turbine
	10357	ORREFORS	564826.1N 0154019.7E (*)	558	1142	F R	Wind turbine
	10358	ORREFORS	564847.1N 0153954.1E (*)	558	1165	F R	Wind turbine
	10359	ORREFORS	564857.5N 0153920.5E (*)	558	1194	FLG W	Wind turbine
	10360	ORREFORS	564916.6N 0153912.0E (*)	558	1211	F R	Wind turbine
	10361	ORREFORS	564931.9N 0153908.1E (*)	558	1204	F R	Wind turbine
	10362	ORREFORS	564952.1N 0153916.7E (*)	558	1188	FLG W	Wind turbine
	10363	ORREFORS	564943.2N 0153938.0E (*)	558	1178	F R	Wind turbine
	10364	ORREFORS	565004.1N 0153937.9E (*)	558	1188	F R	Wind turbine
	10365	ORREFORS	564955.8N 0154011.6E (*)	558	1158	FLG W	Wind turbine
	10469	TORSÅS	562325.6N 0155701.9E (*)	476	607	FLG R	Wind turbine
	10470	TORSÅS	562255.7N 0155555.7E (*)	476	614	FLG R	Wind turbine
	10471	TORSÅS	562313.8N 0155634.4E (*)	476	620	FLG R	Wind turbine
	10472	TORSÅS	562229.5N 0155433.9E (*)	476	666	FLG R	Wind turbine
	10473	TORSÅS	562246.0N 0155520.9E (*)	476	630	FLG R	Wind turbine
	10474	TORSÅS	562304.4N 0155511.4E (*)	476	646	FLG R	Wind turbine
	10866	BRÄKNE-HOBY	561213.3N 0150853.5E (*)	492	643	FLG R	Wind turbine
	10867	BRÄKNE-HOBY	561218.7N 0150921.5E (*)	492	663	FLG R	Wind turbine
	10868	BRÄKNE-HOBY	561212.9N 0150953.2E (*)	492	646	FLG R	Wind turbine
	10869	BRÄKNE-HOBY	561222.8N 0151029.9E (*)	492	656	FLG R	Wind turbine
	10870	BRÄKNE-HOBY	561144.8N 0150851.0E (*)	492	597	FLG R	Wind turbine
	10871	BRÄKNE-HOBY	561202.5N 0150923.9E (*)	492	653	FLG R	Wind turbine
	10872	BRÄKNE-HOBY	561153.6N 0150946.8E (*)	492	627	FLG R	Wind turbine
	10873	BRÄKNE-HOBY	561159.1N 0151016.1E (*)	492	617	FLG R	Wind turbine
	11066	KARLSKRONA	561027.2N 0153605.6E (*)	413	531	F R	Mast
	11075	TOKEBO	565309.3N 0154434.8E (*)	574	1145	F R/FLG W	Wind turbine
	11077	TOKEBO	565313.9N 0154409.7E (*)	574	1148	F R/FLG W	Wind turbine
	11078	TOKEBO	565337.1N 0154419.3E (*)	574	1138	F R/FLG W	Wind turbine
	11079	TOKEBO	565350.0N 0154358.6E (*)	574	1148	F R/FLG W	Wind turbine
	11080	TOKEBO	565401.2N 0154332.2E (*)	574	1148	F R/FLG W	Wind turbine
	11081	TOKEBO	565411.6N 0154305.3E (*)	574	1175	F R/FLG W	Wind turbine
	11082	TOKEBO	565423.0N 0154241.3E (*)	574	1171	F R/FLG W	Wind turbine
	11083	TOKEBO	565342.9N 0154343.0E (*)	328	902	F R	Mast
	11446	VÄBYNÄS	561011.1N 0150553.5E (*)	492	581	FLG R	Wind turbine
	11652	TORSÅS	562608.6N 0155656.2E (*)	482	597	FLG R	Wind turbine
	11653	TORSÅS	562603.1N 0155604.6E (*)	482	614	FLG R	Wind turbine
	11654	TORSÅS	562603.4N 0155632.1E (*)	482	604	FLG R	Wind turbine
	11655	TORSÅS	562605.7N 0155538.8E (*)	482	620	FLG R	Wind turbine
	11669	TORSÅS	562549.4N 0155549.6E (*)	482	614	FLG R	Wind turbine
	11670	TORSÅS	562550.8N 0155619.0E (*)	482	600	FLG R	Wind turbine
	11988	VERKÖ	560941.6N 0153814.9E (*)	328	328	F R	Mast
	12956	KARLSKRONA	561127.3N 0154325.2E (*)	476	600	FLG R	Wind turbine
	15312	KARLSKRONA	561009.5N 0153813.1E	499	510	FLG W	Tower
	15341	FURUBY	565053.8N 0150707.5E	722	1437	FLG W	Wind turbine
	15342	FURUBY	565046.8N 0150621.6E	722	1457	FLG R	Wind turbine
	15343	FURUBY	565059.2N 0150549.5E	722	1467	FLG R	Wind turbine
	15344	FURUBY	565137.1N 0150557.3E	722	1499	FLG R	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	15345	FURUBY	565156.4N 0150644.2E	722	1483	FLG R	Wind turbine
	15346	FURUBY	565204.7N 0150733.0E	722	1450	FLG R	Wind turbine
	15347	FURUBY	565154.1N 0150835.3E	722	1463	FLG R	Wind turbine
	15348	FURUBY	565152.6N 0150934.6E	722	1430	FLG R	Wind turbine
	15349	FURUBY	565148.9N 0151016.4E	722	1414	FLG R	Wind turbine
	15350	FURUBY	565141.0N 0151057.8E	722	1447	FLG R	Wind turbine
56N 16E	83	BORGHOLM	565008.4N 0164340.3E	354	473	F R	Mast
	84	ÖLANDS SÖ UDDE	561401.1N 0162717.9E	358	385	F R	Mast
	1083	BORGHOLM	565116.9N 0164214.6E	338	451	F R	Mast
	1243	TORSÅS	562347.5N 0160005.4E	338	422	F R	Mast
	3632	NORRA MÖCKLEBY	564058.0N 0163352.6E	492	657	F R/FLG W	Mast
	6964	KROKA	562641.1N 0160529.6E (*)	328	354	F R	Wind turbine
	7671	ROCKNEBY	564907.5N 0162051.5E (*)	328	377	F R	Wind turbine
	8468	STORA ISTAD	565628.4N 0164936.4E (*)	390	430	F R	Wind turbine
	8469	STORA ISTAD	565619.8N 0164924.8E (*)	390	433	F R	Wind turbine
	8470	STORA ISTAD	565611.1N 0164913.2E (*)	390	433	F R	Wind turbine
	8471	STORA ISTAD	565602.6N 0164901.7E (*)	390	430	F R	Wind turbine
	8472	STORA ISTAD	565553.9N 0164850.1E (*)	390	430	F R	Wind turbine
	8662	SÖDERÅKRA	562546.8N 0160227.1E (*)	328	371	F R	Wind turbine
	9009	BREDSÄTTRA	565035.1N 0165117.4E (*)	328	344	F R	Wind turbine
	9136	BORGHOLM	565231.9N 0164821.9E (*)	331	381	F R	Wind turbine
	9137	BORGHOLM	565240.8N 0164821.8E (*)	331	381	F R	Wind turbine
	9138	BORGHOLM	565249.7N 0164821.7E (*)	331	387	F R	Wind turbine
	9139	BORGHOLM	565258.6N 0164821.6E (*)	331	387	F R	Wind turbine
	9435	PÅBODA	562547.4N 0160517.2E (*)	463	489	FLG R	Wind turbine
	9436	PÅBODA	562559.1N 0160511.4E (*)	463	489	FLG R	Wind turbine
	9457	GÄRDSLÖSA	564712.4N 0164255.6E (*)	390	466	FLG R	Wind turbine
	9458	GÄRDSLÖSA	564725.8N 0164255.9E (*)	390	459	FLG R	Wind turbine
	9459	GÄRDSLÖSA	564739.2N 0164256.3E (*)	390	459	FLG R	Wind turbine
	9469	GÄRDSLÖSA	564753.2N 0164256.7E (*)	390	463	FLG R	Wind turbine
	9470	GÄRDSLÖSA	564806.0N 0164257.0E (*)	394	472	FLG R	Wind turbine
	9505	BORGHOLM	565223.1N 0164821.8E (*)	331	384	F R	Wind turbine
	9813	BREDSÄTTRA / LÅNGÖRE	565053.3N 0165111.3E (*)	328	344	FLG R	Wind turbine
	9828	BREDSÄTTRA	565102.8N 0165107.8E (*)	328	341	FLG R	Wind turbine
	9933	BLOMSTERMÅLA	565729.9N 0161517.8E (*)	492	643	FLG R	Wind turbine
	9934	BLOMSTERMÅLA	565742.8N 0161411.8E (*)	492	673	FLG R	Wind turbine
	9935	BLOMSTERMÅLA	565725.5N 0161424.1E (*)	492	673	FLG R	Wind turbine
	9936	BLOMSTERMÅLA	565713.0N 0161522.3E (*)	492	646	FLG R	Wind turbine
	9937	BLOMSTERMÅLA	565704.3N 0161432.1E (*)	492	659	FLG R	Wind turbine
	9938	BLOMSTERMÅLA	565627.6N 0161412.2E (*)	492	659	FLG R	Wind turbine
	9939	BLOMSTERMÅLA	565650.2N 0161411.7E (*)	492	633	FLG R	Wind turbine
	9940	BLOMSTERMÅLA	565642.6N 0161445.4E (*)	492	646	FLG R	Wind turbine
	10071	STORA ISTAD	565545.3N 0164838.5E (*)	397	436	FLG R	Wind turbine
	10073	STORA ISTAD	565528.1N 0164815.3E (*)	397	436	FLG R	Wind turbine
	10111	GÄRDSLÖSA	564659.3N 0164255.3E (*)	390	466	FLG R	Wind turbine
	10171	RÄLLA	564432.7N 0163425.2E (*)	390	535	FLG R	Wind turbine
	10172	HÖGSRUM	564442.3N 0163441.9E (*)	390	528	FLG R	Wind turbine
	10173	RÄLLA	564451.4N 0163457.8E (*)	390	525	FLG R	Wind turbine
	10174	RÄLLA	564501.4N 0163515.1E (*)	390	525	FLG R	Wind turbine
	10175	RÄLLA	564510.8N 0163531.4E (*)	390	531	FLG R	Wind turbine
	10426	BORGHOLM	565008.1N 0164111.5E (*)	410	499	FLG R	Wind turbine
	10427	BORGHOLM	565020.7N 0164115.2E (*)	410	502	FLG R	Wind turbine
	10428	BORGHOLM	565033.8N 0164119.1E (*)	410	499	FLG R	Wind turbine
	10429	BORGHOLM	565046.7N 0164122.9E (*)	410	492	FLG R	Wind turbine
	10599	BLOMSTERMÅLA	565819.4N 0161630.2E (*)	574	715	FLG W	Wind turbine
	10653	PÅBODA	562502.4N 0160332.0E (*)	328	381	FLG R	Wind turbine
	10656	SÖDERÅKRA	562553.4N 0160243.1E (*)	328	354	FLG R	Wind turbine
	10768	VASSMOLÖSA	563657.2N 0160919.3E (*)	476	538	FLG R	Wind turbine
	10769	VASSMOLÖSA	563648.8N 0160859.7E (*)	476	518	FLG R	Wind turbine
	10770	VASSMOLÖSA	563638.0N 0160845.6E (*)	476	528	FLG R	Wind turbine
	10771	VASSMOLÖSA	563626.4N 0160834.1E (*)	476	522	FLG R	Wind turbine
	10772	VASSMOLÖSA	563612.7N 0160836.3E (*)	476	522	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
	10782	BORGHOLM	565231.8N 0164755.7E (*)	394	453	FLG R	Wind turbine
	10783	BORGHOLM	565240.7N 0164755.7E (*)	394	449	FLG R	Wind turbine
	10784	BORGHOLM	565249.6N 0164755.7E (*)	394	453	FLG R	Wind turbine
	10785	BORGHOLM	565258.5N 0164755.7E (*)	394	459	FLG R	Wind turbine
	10786	BORGHOLM	565307.4N 0164755.7E (*)	394	456	FLG R	Wind turbine
	10857	ROCKNEBY	565022.2N 0161918.7E (*)	476	548	FLG R	Wind turbine
	10858	ROCKNEBY	564959.9N 0162000.3E (*)	476	548	FLG R	Wind turbine
	10859	ROCKNEBY	565011.2N 0161939.5E (*)	476	568	FLG R	Wind turbine
	10860	ROCKNEBY	564939.2N 0162012.5E (*)	476	545	FLG R	Wind turbine
	10861	ROCKNEBY	564941.4N 0162041.2E (*)	476	541	FLG R	Wind turbine
	11101	MORTORP	563518.8N 0160134.6E (*)	492	646	FLG R	Wind turbine
	11102	MORTORP	563502.4N 0160128.3E (*)	492	653	FLG R	Wind turbine
	11334	LERKAKA	564335.4N 0164140.9E (*)	410	476	FLG R	Wind turbine
	11335	LERKAKA	564322.5N 0164133.7E (*)	410	472	FLG R	Wind turbine
	11336	LERKAKA	564309.7N 0164126.3E (*)	410	469	FLG R	Wind turbine
	11337	LERKAKA	564256.7N 0164119.3E (*)	410	476	FLG R	Wind turbine
	11338	LERKAKA	564244.0N 0164112.1E (*)	410	482	FLG R	Wind turbine
	11675	MORTORP	563513.5N 0160100.4E (*)	482	640	FLG R	Wind turbine
	11677	MORTORP	563513.4N 0160202.9E (*)	482	650	FLG R	Wind turbine
	11678	MORTORP	563541.4N 0160102.1E (*)	482	646	FLG R	Wind turbine
	11679	MORTORP	563528.3N 0160110.9E (*)	482	659	FLG R	Wind turbine
	12088	BERGKVARA	562435.7N 0160441.8E (*)	492	525	FLG R	Wind turbine
	12089	TORSÅS	562452.2N 0160441.9E (*)	492	518	FLG R	Wind turbine
	12524	BLOMSTERMÅLA	565817.9N 0161214.4E (*)	627	906	FLG W	Wind turbine
	12525	BLOMSTERMÅLA	565750.0N 0161313.9E (*)	627	869	FLG W	Wind turbine
	12526	BLOMSTERMÅLA	565559.8N 0161445.6E (*)	627	797	FLG W	Wind turbine
	12527	BLOMSTERMÅLA	565748.2N 0161620.4E (*)	627	791	FLG W	Wind turbine
	12528	BLOMSTERMÅLA	565811.1N 0161532.8E (*)	627	807	F R	Wind turbine
	12529	BLOMSTERMÅLA	565808.7N 0161437.1E (*)	627	804	F R	Wind turbine
	12530	BLOMSTERMÅLA	565841.8N 0161531.8E (*)	627	807	F R	Wind turbine
	12531	BLOMSTERMÅLA	565907.0N 0161551.1E (*)	627	791	FLG W	Wind turbine
	12532	BLOMSTERMÅLA	565805.7N 0161705.0E (*)	627	794	F R	Wind turbine
	12533	BLOMSTERMÅLA	565802.6N 0161818.4E (*)	627	764	FLG W	Wind turbine
	12534	BLOMSTERMÅLA	565743.5N 0161854.6E (*)	627	748	FLG W	Wind turbine
	12535	BLOMSTERMÅLA	565702.4N 0162000.9E (*)	627	722	F R	Wind turbine
	12536	BLOMSTERMÅLA	565638.3N 0162028.6E (*)	627	725	FLG W	Wind turbine
	12537	BLOMSTERMÅLA	565708.1N 0162044.8E (*)	627	715	FLG W	Wind turbine
	12765	LJUNGBYHOLM	563939.9N 0160407.4E (*)	476	640	F R	Mast
	14449	LJUNGBYHOLM	563944.8N 0160110.6E	656	853	FLG R	Wind turbine
	14450	LJUNGBYHOLM	563953.4N 0160139.6E	656	830	F R	Wind turbine
	14451	LJUNGBYHOLM	563958.5N 0160211.7E	656	827	FLG R	Wind turbine
	14452	LJUNGBYHOLM	563951.3N 0160242.9E	656	810	F R	Wind turbine
	14453	LJUNGBYHOLM	563934.2N 0160327.4E	656	807	FLG W	Wind turbine
	14454	LJUNGBYHOLM	563939.9N 0160407.5E	656	794	FLG W	Wind turbine
	14455	LJUNGBYHOLM	563950.2N 0160434.7E	656	797	FLG W	Wind turbine
	14456	LJUNGBYHOLM	563955.5N 0160526.9E	656	784	F R	Wind turbine
	14457	LJUNGBYHOLM	563942.4N 0160501.8E	656	794	FLG W	Wind turbine
	14458	LJUNGBYHOLM	563948.5N 0160606.5E	656	774	F R	Wind turbine
	14459	LJUNGBYHOLM	563954.5N 0160637.3E	656	764	F R	Wind turbine
	14460	LJUNGBYHOLM	563952.9N 0160712.9E	656	764	FLG W	Wind turbine
	15315	ALGUTSRUM	564039.5N 0163403.7E	489	627	FLG R	Mast
56N 17E	11287	YTTERGRUND	565953.3N 0170021.2E (*)	446	446	FLG R	Wind turbine
	11290	YTTERGRUND	565940.5N 0170022.7E (*)	446	446	FLG R	Wind turbine
	11291	YTTERGRUND	565929.2N 0170027.8E (*)	446	446	FLG R	Wind turbine
	11292	YTTERGRUND	565917.9N 0170033.4E (*)	446	446	FLG R	Wind turbine
	11293	YTTERGRUND	565907.0N 0170041.1E (*)	446	446	FLG R	Wind turbine
	11294	YTTERGRUND	565857.3N 0170053.4E (*)	446	446	FLG R	Wind turbine
	11295	YTTERGRUND	565848.8N 0170108.1E (*)	446	446	FLG R	Wind turbine
	11296	YTTERGRUND	565840.7N 0170123.7E (*)	446	446	FLG R	Wind turbine
	11297	YTTERGRUND	565825.6N 0170156.4E (*)	446	446	FLG R	Wind turbine
	11298	YTTERGRUND	565819.4N 0170213.6E (*)	446	446	FLG R	Wind turbine
	11299	YTTERGRUND	565812.4N 0170231.9E (*)	446	446	FLG R	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	11300	YTTERGRUND	565806.3N 0170250.3E (*)	446	446	FLG R	Wind turbine
	11332	YTTERGRUND	565833.1N 0170140.0E (*)	446	446	FLG R	Wind turbine
56N 18E	154	SUNDRE	565610.9N 0181316.6E	371	467	F R	Mast
	1017	FALUDDEN	565943.6N 0182316.9E	653	671	F R/FLG W	Mast, 40 per min.
57N 11E	86	GÖTEBORG/BRÄCKE	574207.8N 0115241.9E (*)	377	400	F R	Chimney
	88	GÖTEBORG/SKEPPSBRON	574206.8N 0115722.9E (*)	361	390	-	Chimney
	89	GÖTEBORG/ÄLVSBORGSBRON	574135.8N 0115358.9E (*)	331	331	F R	Tower, Chimney
	862	GÖTEBORG/MÖLNDAL	573821.8N 0115955.8E (*)	328	459	F R	Chimney
	902	GÖTEBORG/RYA	574140.8N 0115326.9E (*)	328	361	F R	Chimney
	1260	JÄRNBROTT	573858.8N 0115538.9E (*)	335	358	F R	Mast
	3565	GÖTEBORGS HAMN	574119.8N 0115135.9E (*)	331	344	F R	Crane
	3566	GÖTEBORGS HAMN	574119.8N 0115109.9E (*)	331	344	F R	Crane
	10480	KODE	575529.7N 0115216.2E (*)	492	712	FLG R	Wind turbine
	10580	GÖTEBORG/ARENDAL	574101.8N 0114817.5E (*)	476	476	FLG R	Wind turbine
	15340	GÖTEBORG	574235.0N 0115621.0E	804	817	F R/FLG W	Building
57N 12E	97	GÖTEBORG/BRUDAREMOSSEN	574139.5N 0120332.0E	1086	1452	F R/FLG W	Mast
	100	RINGHALS	571542.8N 0120642.0E	361	409	F R	Chimney
	106	GRIMETON 1	570601.3N 0122253.4E	417	532	F R	Mast
	109	STENKULLEN	574807.8N 0121923.7E (*)	384	646	F R	Mast
	110	VÄRÖ/BUA	571325.5N 0121020.3E	397	420	F R	Chimney
	711	RINGHALS 1	571506.8N 0120635.6E	335	357	F R	Mast
	714	GÖTEBORG/SÄVENÄS	574352.8N 0120243.8E (*)	397	427	F R	Chimney
	1005	LINDOME	573621.4N 0120631.4E	394	615	F R	Mast
	1213	GÖTEBORG/SÄVENÄS	574350.8N 0120208.8E (*)	328	358	F R	Chimney
	1456	GÖTEBORG/PARTILLE	574353.9N 0120311.3E (*)	328	371	F R	Chimney
	1463	GÖTEBORG/ST BRATTÅS	574553.8N 0120414.8E (*)	361	702	F R	Mast
	1700	BORÅS	574333.8N 0125615.4E (*)	344	778	-	Chimney
	3531	GRIMETON	570610.5N 0122308.1E	417	531	-	Mast
	3532	GRIMETON	570619.7N 0122323.0E	420	521	-	Mast
	3533	GRIMETON	570628.9N 0122337.8E	417	510	-	Mast
	3534	GRIMETON	570638.2N 0122352.7E	417	507	-	Mast
	3535	GRIMETON	570647.5N 0122407.7E	417	519	F R	Mast
	3536	GRIMETON	570631.6N 0122325.6E	856	957	F R/FLG W	Mast
	4884	GÖTEBORG/BRUDAREMOSSEN	574138.4N 0120331.4E	564	935	-	Mast
	5984	MARK	573002.7N 0123513.5E (*)	335	778	F R	Mast
	8365	TVÅÅKER	570207.3N 0122250.7E (*)	410	446	FLG R	Wind turbine
	8366	TVÅÅKER	570217.4N 0122241.0E (*)	410	449	FLG R	Wind turbine
	8367	TVÅÅKER	570227.4N 0122231.4E (*)	410	449	FLG R	Wind turbine
	9222	LÅNGÅS	570034.0N 0122629.6E (*)	492	558	FLG R	Wind turbine
	9223	LÅNGÅS	570028.4N 0122650.2E (*)	492	558	FLG R	Wind turbine
	9224	LÅNGÅS	570022.8N 0122710.8E (*)	492	561	FLG R	Wind turbine
	9225	LÅNGÅS	570017.0N 0122731.7E (*)	492	558	FLG R	Wind turbine
	9226	LÅNGÅS	570011.3N 0122752.7E (*)	492	558	FLG R	Wind turbine
	9364	GÖTEBORG	574744.0N 0120123.0E (*)	400	755	FLG R	Wind turbine
	9376	TVÅÅKER	570314.1N 0122154.2E (*)	390	466	F R	Wind turbine
	9377	TVÅÅKER	570325.0N 0122146.3E (*)	390	479	F R	Wind turbine
	10118	TVÅÅKER	570301.0N 0122931.7E (*)	492	932	FLG R	Wind turbine
	10119	TVÅÅKER	570253.1N 0122951.0E (*)	492	935	FLG R	Wind turbine
	10120	TVÅÅKER	570242.6N 0122932.6E (*)	492	961	FLG R	Wind turbine
	10121	TVÅÅKER	570252.8N 0122912.6E (*)	492	961	FLG R	Wind turbine
	10122	TVÅÅKER	570249.3N 0122846.2E (*)	492	827	FLG R	Wind turbine
	10594	FJÄRÅS KYRKBY	572458.3N 0121355.6E (*)	476	846	FLG R	Wind turbine
	10595	FJÄRÅS KYRKBY	572502.4N 0121420.8E (*)	476	853	FLG R	Wind turbine
	10596	FJÄRÅS KYRKBY	572524.9N 0121441.5E (*)	476	820	FLG R	Wind turbine
	10597	FJÄRÅS KYRKBY	572544.3N 0121427.4E (*)	476	837	FLG R	Wind turbine
	10648	SKEPHULT	573154.0N 0125141.0E (*)	492	984	FLG R	Wind turbine
	10675	ÖVERLIDA	572056.8N 0125025.8E (*)	443	1079	FLG R	Wind turbine
	10676	ÖVERLIDA	572041.3N 0125030.5E (*)	443	1086	FLG R	Wind turbine
	11097	BRÅTAGÄRDE	570543.2N 0124359.3E (*)	394	856	F R	Mast
	11215	GÄLLINGE	572304.4N 0121229.8E (*)	328	673	F R	Mast
	11246	VESSIGEBRO	570031.1N 0124220.8E (*)	492	1033	FLG R	Wind turbine
	11247	VESSIGEBRO	570044.8N 0124224.6E (*)	492	1010	FLG R	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	11248	VESSIGEBRO	570056.6N 0124211.8E (*)	492	1014	FLG R	Wind turbine
	11249	VESSIGEBRO	570111.8N 0124220.9E (*)	492	935	FLG W	Wind turbine
	11252	VESSIGEBRO	570026.4N 0124331.7E (*)	492	860	FLG R	Wind turbine
	11253	VESSIGEBRO	570034.1N 0124404.8E (*)	492	879	FLG R	Wind turbine
	11254	VESSIGEBRO	570032.4N 0124432.2E (*)	492	981	FLG R	Wind turbine
	11544	ÅSBY	571248.0N 0121706.0E (*)	492	771	FLG R	Wind turbine
	11545	ÅSBY	571236.5N 0121651.2E (*)	492	771	FLG R	Wind turbine
	11546	ÅSBY	571224.8N 0121636.0E (*)	492	787	FLG R	Wind turbine
	11547	ÅSBY	571212.0N 0121621.7E (*)	492	784	FLG R	Wind turbine
	11548	ÅSBY	571159.4N 0121608.0E (*)	492	774	FLG R	Wind turbine
	11549	ÅSBY	571147.4N 0121554.2E (*)	492	745	FLG R	Wind turbine
	11688	FRILLESÅS	572001.7N 0121159.3E (*)	456	587	FLG R	Wind turbine
	11704	SVANEHOLM	573712.3N 0124521.0E (*)	328	873	F R	Mast
	12755	GÄLLINGE	572311.5N 0121208.7E (*)	492	804	FLG R	Wind turbine
	12756	GÄLLINGE	572258.7N 0121210.3E (*)	492	820	FLG R	Wind turbine
	12757	GÄLLINGE	572308.2N 0121233.0E (*)	492	810	FLG R	Wind turbine
	12758	GÄLLINGE	572304.9N 0121258.7E (*)	492	827	FLG R	Wind turbine
	12759	GÄLLINGE	572249.8N 0121302.8E (*)	492	807	FLG R	Wind turbine
	12760	GÄLLINGE	572236.4N 0121306.0E (*)	492	804	FLG R	Wind turbine
	12761	GÄLLINGE	572222.5N 0121309.3E (*)	492	833	FLG R	Wind turbine
	12762	GÄLLINGE	572207.8N 0121310.3E (*)	492	860	FLG R	Wind turbine
	13059	KÅLLERED	573559.8N 0120341.4E (*)	367	541	F R	Mast
	14984	ALINGSÅS	575907.7N 0123237.9E	656	1237	F R	Wind turbine
	14985	ALINGSÅS	575940.6N 0123303.2E	656	1266	FLG W	Wind turbine
	14986	ALINGSÅS	575921.3N 0123315.7E	656	1224	FLG W	Wind turbine
	14987	ALINGSÅS	575810.7N 0122942.6E	656	1253	FLG W	Wind turbine
	14988	ALINGSÅS	575856.9N 0122929.2E	656	1280	FLG W	Wind turbine
	14989	ALINGSÅS	575849.7N 0122956.4E	656	1276	FLG W	Wind turbine
	14990	ALINGSÅS	575826.1N 0123047.9E	656	1211	FLG W	Wind turbine
	14991	ALINGSÅS	575911.1N 0123000.8E	656	1283	F R	Wind turbine
	14992	ALINGSÅS	575900.1N 0123026.1E	656	1276	F R	Wind turbine
	14993	ALINGSÅS	575848.4N 0123048.6E	656	1227	F R	Wind turbine
	14994	ALINGSÅS	575838.1N 0123108.2E	656	1237	F R	Wind turbine
	14995	ALINGSÅS	575923.5N 0123043.8E	656	1266	FLG W	Wind turbine
	14996	ALINGSÅS	575907.7N 0123114.4E	656	1247	F R	Wind turbine
	15224	GÖTEBORG	574039.6N 0120049.1E	354	541	F R	Building
	15763	TVÅÅKER	570144.8N 0122125.4E	410	434	FLG R	Wind turbine
	15764	TVÅÅKER	570157.6N 0122124.6E	410	431	FLG R	Wind turbine
	15812	HEDARED	574925.0N 0124311.4E	377	1148	F R	Mast
57N 13E	116	FINNVEDEN	571409.4N 0134302.8E	853	1673	F R/FLG W	Mast
	9677	VÄRNAMO	570827.2N 0135819.3E (*)	492	1302	FLG R	Wind turbine
	9679	VÄRNAMO	570819.6N 0135834.4E (*)	492	1283	FLG R	Wind turbine
	9704	KULLTORP	571657.0N 0134523.4E (*)	410	1375	FLG R	Wind turbine
	9705	KULLTORP	571658.7N 0134547.1E (*)	410	1401	FLG R	Wind turbine
	9706	KULLTORP	571649.6N 0134600.5E (*)	410	1368	FLG R	Wind turbine
	9707	KULLTORP	571641.2N 0134533.9E (*)	410	1280	FLG R	Wind turbine
	10140	SEXDREGA	573434.9N 0130545.3E (*)	328	1056	F R	Mast
	10235	BORGSTENA	575345.6N 0130328.0E (*)	328	1198	F R	Mast
	10260	HESTRA	572717.5N 0133158.8E (*)	328	1263	F R	Mast
	10629	MARBÄCK	574508.7N 0132857.4E (*)	394	1496	F R	Mast
	10686	RÅNNAVÄG	574255.3N 0132804.2E (*)	492	1647	FLG R	Wind turbine
	10687	RÅNNAVÄG	574246.7N 0132741.1E (*)	492	1650	FLG R	Wind turbine
	10688	RÅNNAVÄG	574226.2N 0132719.1E (*)	492	1617	FLG R	Wind turbine
	11340	GNOSJÖ	572409.5N 0134339.0E (*)	492	1444	FLG R	Wind turbine
	11341	GNOSJÖ	572400.3N 0134325.3E (*)	492	1460	FLG R	Wind turbine
	11342	GNOSJÖ	572351.0N 0134309.9E (*)	492	1362	FLG R	Wind turbine
	12195	ULRICEHAMN	574646.5N 0133256.0E (*)	344	1496	F R	Mast
	12614	REFTELE	571138.2N 0133831.9E (*)	656	1266	F R/FLG W	Wind turbine
	12615	REFTELE	571150.9N 0133839.3E (*)	656	1293	F R/FLG W	Wind turbine
	12901	BORÅS	574325.9N 0130321.4E (*)	997	2047	F R/FLG W	Mast
	12915	BOTTNARYD	574520.9N 0134750.7E (*)	476	1529	FLG R	Wind turbine
	12916	BOTTNARYD	574456.5N 0134757.2E (*)	476	1522	FLG R	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	15510	GREVEKULLA	574339.3N 0151504.6E	656	1555	FLG W	Wind turbine
	15511	GREVEKULLA	574353.4N 0151523.4E	656	1572	FLG W	Wind turbine
	15512	GREVEKULLA	574341.3N 0151555.8E	656	1558	FLG W	Wind turbine
	15513	GREVEKULLA	574330.9N 0151528.4E	656	1624	F R	Wind turbine
	15514	GREVEKULLA	574313.6N 0151531.7E	656	1568	F R	Wind turbine
	15515	GREVEKULLA	574302.1N 0151559.8E	656	1578	FLG W	Wind turbine
	15684	ÅSEDA	570636.5N 0151728.9E	627	1529	FLG W	Wind turbine
	15685	ÅSEDA	570618.8N 0151753.9E	627	1523	FLG W	Wind turbine
	15686	ÅSEDA	570517.6N 0151859.9E	627	1550	FLG W	Wind turbine
	15687	ÅSEDA	570524.0N 0151725.1E	627	1568	FLG W	Wind turbine
	15688	ÅSEDA	570403.2N 0151442.2E	627	1568	FLG W	Wind turbine
	15689	ÅSEDA	570352.4N 0151410.3E	627	1542	F R	Wind turbine
	15690	ÅSEDA	570351.4N 0151331.0E	627	1555	FLG W	Wind turbine
	15691	ÅSEDA	570424.6N 0151832.3E	627	1555	FLG W	Wind turbine
	15692	ÅSEDA	570416.8N 0151901.8E	627	1539	F R	Wind turbine
	15693	ÅSEDA	570404.4N 0151924.0E	627	1575	FLG W	Wind turbine
	15694	ÅSEDA	570350.1N 0151842.4E	627	1535	F R	Wind turbine
	15695	ÅSEDA	570358.6N 0151813.2E	627	1562	F R	Wind turbine
	15696	ÅSEDA	570330.6N 0151902.4E	627	1554	FLG W	Wind turbine
	15697	ÅSEDA	570302.9N 0151845.1E	627	1540	F R	Wind turbine
	15698	ÅSEDA	570246.2N 0151837.9E	627	1491	F R	Wind turbine
	15699	ÅSEDA	570231.6N 0151828.4E	627	1492	FLG W	Wind turbine
	15700	ÅSEDA	570319.5N 0151818.0E	627	1522	F R	Wind turbine
	15701	ÅSEDA	570332.4N 0151804.5E	627	1527	F R	Wind turbine
	15702	ÅSEDA	570319.0N 0151740.6E	627	1514	FLG W	Wind turbine
	15703	ÅSEDA	570300.9N 0151814.9E	627	1521	F R	Wind turbine
	15704	LENHOVDA	570223.6N 0151719.7E	607	1488	FLG W	Wind turbine
	15705	LENHOVDA	570244.8N 0151701.2E	607	1518	FLG W	Wind turbine
	15706	LENHOVDA	570223.7N 0151634.4E	607	1503	F R	Wind turbine
	15707	LENHOVDA	570206.0N 0151600.2E	607	1517	F R	Wind turbine
	15708	LENHOVDA	570215.3N 0151526.0E	607	1552	FLG W	Wind turbine
	15709	LENHOVDA	570201.6N 0151521.2E	607	1538	F R	Wind turbine
	15710	LENHOVDA	570144.7N 0151515.7E	607	1528	FLG W	Wind turbine
57N 16E	145	LOFTAHAMMAR	575435.8N 0164429.2E	367	491	F R	Mast
	146	RUDA	570713.2N 0160910.8E	696	999	F R/FLG W	Mast, Note:Support cables within radius 300 m.
	147	VÄSTERVIK/FÅRHULT	574315.3N 0162533.8E	1099	1396	F R/FLG W	Mast
	148	VÄSTERVIK/MARIELUND	574334.2N 0163933.3E	413	485	F R	Mast
	149	OSKARSHAMN/SIMPEVARP	572446.3N 0164004.7E	361	380	F R	Chimney
	712	OSKARSHAMN/SIMPEVARP	572450.6N 0163935.2E	335	365	F R	Mast
	1292	BLANKAHOLM	573532.3N 0163006.1E	344	430	F R	Mast
	4141	GAMLEBY/LINKÖPING	575428.9N 0162350.7E	344	559	F R	Mast
	4500	VÄSTERVIK/FÅRHULT	574315.0N 0162536.8E	577	886	F R	Mast
	4906	OSKARSHAMN/SIMPEVARP	572458.5N 0164022.6E	328	332	F R	Chimney
	9872	MÖNSTERÅS	570524.9N 0163124.2E (*)	492	558	FLG R	Wind turbine
	9873	MÖNSTERÅS	570536.1N 0163143.5E (*)	492	541	FLG R	Wind turbine
	9874	MÖNSTERÅS	570549.7N 0163207.4E (*)	492	541	FLG R	Wind turbine
	9875	MÖNSTERÅS	570603.7N 0163232.0E (*)	492	518	FLG R	Wind turbine
	9876	MÖNSTERÅS	570554.3N 0163311.7E (*)	492	512	FLG R	Wind turbine
	9877	MÖNSTERÅS	570543.0N 0163348.5E (*)	492	505	FLG R	Wind turbine
	9954	MÖNSTERÅS/NYGÅRD	570532.6N 0163047.5E (*)	492	535	FLG R	Wind turbine
	9955	MÖNSTERÅS/NYGÅRD	570550.0N 0163119.7E (*)	492	535	FLG R	Wind turbine
	9956	MÖNSTERÅS/NYGÅRD	570604.0N 0163145.5E (*)	492	518	FLG R	Wind turbine
	9957	MÖNSTERÅS/NYGÅRD	570619.5N 0163214.2E (*)	492	525	FLG R	Wind turbine
	10314	GAMLEBY	575023.6N 0162214.8E (*)	492	758	FLG R	Wind turbine
	10315	GAMLEBY	575017.5N 0162146.5E (*)	492	771	FLG R	Wind turbine
	10316	GAMLEBY	575027.6N 0162127.9E (*)	492	810	FLG R	Wind turbine
	10317	GAMLEBY	575038.6N 0162156.5E (*)	492	764	FLG R	Wind turbine
	10318	GAMLEBY	575046.6N 0162133.7E (*)	492	768	FLG R	Wind turbine
	10319	GAMLEBY	575022.1N 0162104.6E (*)	492	774	FLG R	Wind turbine
	10797	HÄSSELSTAD	575805.4N 0162951.8E (*)	328	466	F R	Mast
	11061	BÖDA	571544.0N 0165959.9E (*)	335	394	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
	11672	GETTERUM	573359.5N 0162315.3E (*)	404	617	F R	Mast
	12385	BLANKAHOLM	573703.7N 0162744.3E (*)	394	633	F R	Mast
	14602	FLISERYD	570723.0N 0161813.9E	656	773	FLG W	Wind turbine
	14603	FLISERYD	570702.9N 0161753.5E	656	807	FLG W	Wind turbine
	14604	FLISERYD	570704.9N 0161853.1E	656	785	F R	Wind turbine
	14605	FLISERYD	570651.2N 0161823.7E	656	805	F R	Wind turbine
	14606	FLISERYD	570630.2N 0161819.4E	656	791	F R	Wind turbine
	14607	FLISERYD	570614.2N 0161820.4E	656	790	FLG W	Wind turbine
	14608	FLISERYD	570639.9N 0161854.0E	656	776	F R	Wind turbine
	14609	FLISERYD	570653.2N 0161929.7E	656	792	F R	Wind turbine
	14610	FLISERYD	570639.6N 0161952.2E	656	802	FLG W	Wind turbine
	14611	FLISERYD	570621.4N 0161900.5E	656	794	F R	Wind turbine
	14612	FLISERYD	570600.7N 0161905.5E	656	813	F R	Wind turbine
	14613	FLISERYD	570543.3N 0161921.7E	656	795	FLG W	Wind turbine
	14614	FLISERYD	570616.4N 0162003.2E	656	810	F R	Wind turbine
	14615	FLISERYD	570617.0N 0162052.6E	656	777	F R	Wind turbine
	14616	FLISERYD	570621.5N 0162129.8E	656	739	F R	Wind turbine
	14617	FLISERYD	570555.9N 0161959.8E	656	800	F R	Wind turbine
	14618	FLISERYD	570601.1N 0162037.9E	656	788	F R	Wind turbine
	14619	FLISERYD	570545.0N 0162019.5E	656	811	F R	Wind turbine
	14620	FLISERYD	570550.4N 0162118.9E	656	767	F R	Wind turbine
	14621	FLISERYD	570531.0N 0162040.7E	656	812	FLG W	Wind turbine
	14622	FLISERYD	570530.1N 0162121.2E	656	753	F R	Wind turbine
	14623	FLISERYD	570619.1N 0162215.9E	656	789	F R	Wind turbine
	14624	FLISERYD	570600.3N 0162208.1E	656	746	F R	Wind turbine
	14625	FLISERYD	570530.2N 0162221.6E	656	756	FLG W	Wind turbine
	14626	FLISERYD	570559.8N 0162247.9E	656	784	F R	Wind turbine
	14627	FLISERYD	570544.4N 0162243.1E	656	790	F R	Wind turbine
	14628	FLISERYD	570730.7N 0162248.3E	656	741	FLG W	Wind turbine
	14629	FLISERYD	570703.3N 0162308.2E	656	734	F R	Wind turbine
	14630	FLISERYD	570646.9N 0162403.3E	656	738	F R	Wind turbine
	14631	FLISERYD	570635.4N 0162425.7E	656	742	FLG W	Wind turbine
	14632	FLISERYD	570622.0N 0162341.8E	656	746	F R	Wind turbine
	14633	FLISERYD	570613.0N 0162413.3E	656	755	F R	Wind turbine
	14634	FLISERYD	570616.4N 0162452.3E	656	722	F R	Wind turbine
	14635	FLISERYD	570601.3N 0162505.8E	656	732	F R	Wind turbine
	14636	FLISERYD	570539.8N 0162439.2E	656	730	FLG W	Wind turbine
	14637	FLISERYD	570544.7N 0162519.8E	656	743	FLG W	Wind turbine
57N 17E	152	BYXELKROK	572106.8N 0170406.5E	420	444	F R	Mast
	11284	YTTERGRUND	570032.8N 0170016.6E (*)	446	446	FLG R	Wind turbine
	11285	YTTERGRUND	570019.5N 0170018.8E (*)	446	446	FLG R	Wind turbine
	11286	YTTERGRUND	570006.1N 0170019.6E (*)	446	446	FLG R	Wind turbine
57N 18E	159	IRE	574917.2N 0183627.1E	420	520	F R	Mast
	160	VISBY/FOLLINGBO	573533.6N 0182222.7E	853	1109	F R/FLG W	Mast
	161	VISBY/YGNE	573507.7N 0181101.2E	459	619	F R	Mast
	689	SLITE 2	574233.2N 0184812.2E	367	404	F R	Tower
	728	NÄSUDDEN	570422.9N 0181327.2E	453	478	FLG R	Wind turbine
	1289	LOJSTA	572008.3N 0182046.1E	328	612	F R	Mast
	1320	LJUGARN	572109.5N 0184353.0E	361	413	F R	Mast
	1449	SLITE	574232.4N 0184804.1E	358	403	F R	Silo
	1586	NÄSUDDEN	570420.5N 0181314.6E (*)	394	413	F R	Mast
	2193	NÄS	570350.3N 0181312.0E (*)	387	394	F R	Wind turbine
	2214	NÄS	570642.5N 0181311.8E (*)	410	413	FLG R	Wind turbine
	3249	NÄS	570422.9N 0181353.4E	328	369	F R	Wind turbine
	3969	SMÖJEN	574359.9N 0185632.1E (*)	328	361	F R	Wind turbine
	3970	SMÖJEN	574351.5N 0185640.5E (*)	328	344	F R	Wind turbine
	3971	SMÖJEN	574342.6N 0185649.7E (*)	328	361	F R	Wind turbine
	3972	SMÖJEN	574334.5N 0185657.9E (*)	328	351	F R	Wind turbine
	4031	STORA VIKERS	575006.3N 0184908.4E (*)	328	443	F R	Wind turbine
	4032	STORA VIKERS	575005.9N 0184928.4E (*)	328	443	F R	Wind turbine
	4033	STORA VIKERS	575009.6N 0184947.3E (*)	328	443	F R	Wind turbine
	4034	STORA VIKERS	575014.3N 0185004.4E (*)	328	459	F R	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13839	SVARTNÄS	605040.9N 0160752.8E (*)	591	1886	FLG W	Wind turbine
	13840	SVARTNÄS	605016.6N 0160818.1E (*)	591	1942	F R	Wind turbine
	13841	SVARTNÄS	605034.2N 0160839.7E (*)	591	1916	F R	Wind turbine
	13842	SVARTNÄS	604946.4N 0160707.4E (*)	591	1952	FLG W	Wind turbine
	13843	SVARTNÄS	604955.4N 0160804.3E (*)	591	1982	F R	Wind turbine
	13844	SVARTNÄS	604926.4N 0160839.8E (*)	591	1818	F R	Wind turbine
	13845	SVARTNÄS	604957.0N 0160900.0E (*)	591	1886	F R	Wind turbine
	13846	SVARTNÄS	604934.8N 0160936.6E (*)	591	1896	F R	Wind turbine
	13847	SVARTNÄS	605018.7N 0160951.1E (*)	591	1880	FLG W	Wind turbine
	13848	SVARTNÄS	605037.7N 0160922.1E (*)	591	1864	FLG W	Wind turbine
	13849	SVARTNÄS	604905.1N 0160824.7E (*)	591	1762	F R	Wind turbine
	13850	SVARTNÄS	604848.3N 0160758.0E (*)	591	1759	FLG W	Wind turbine
	13851	SVARTNÄS	604815.0N 0161149.9E (*)	591	1699	FLG W	Wind turbine
	13852	SVARTNÄS	604820.5N 0161111.0E (*)	591	1719	F R	Wind turbine
	13853	SVARTNÄS	604839.1N 0161109.6E (*)	591	1801	FLG W	Wind turbine
	13854	SVARTNÄS	604832.3N 0161029.7E (*)	591	1739	F R	Wind turbine
	13855	SVARTNÄS	604820.9N 0160953.4E (*)	591	1686	FLG W	Wind turbine
	13856	SVARTNÄS	604839.0N 0160944.7E (*)	591	1775	F R	Wind turbine
	13857	SVARTNÄS	604839.5N 0160858.7E (*)	591	1729	F R	Wind turbine
	13858	SVARTNÄS	604745.2N 0161208.0E (*)	591	1650	F R	Wind turbine
	13859	SVARTNÄS	604711.8N 0161400.9E (*)	591	1703	F R	Wind turbine
	13860	SVARTNÄS	604652.0N 0161433.1E (*)	591	1617	F R	Wind turbine
	13861	SVARTNÄS	604642.9N 0161514.9E (*)	591	1594	F R	Wind turbine
	13862	SVARTNÄS	604707.7N 0161547.9E (*)	591	1660	FLG W	Wind turbine
	13863	SVARTNÄS	604725.9N 0161525.0E (*)	591	1677	FLG W	Wind turbine
	13864	SVARTNÄS	604723.3N 0161442.1E (*)	591	1660	F R	Wind turbine
	13865	SVARTNÄS	604620.6N 0161455.1E (*)	591	1499	FLG W	Wind turbine
	13866	SVARTNÄS	604631.1N 0161419.0E (*)	591	1506	F R	Wind turbine
	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	604838.4N 0161348.5E (*)	463	1529	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	14263	AVESTA	600518.2N 0161040.1E	656	1070	FLG W	Wind turbine
	14264	AVESTA	600441.3N 0160849.3E	656	1099	F R	Wind turbine
	14265	AVESTA	600415.0N 0160856.1E	656	1037	FLG W	Wind turbine
	14266	AVESTA	600557.8N 0160502.9E	656	1220	F R	Wind turbine
	14267	AVESTA	600501.6N 0160922.5E	656	1079	F R	Wind turbine
	14268	AVESTA	600414.4N 0160938.0E	656	1020	FLG W	Wind turbine
	14269	AVESTA	600621.2N 0160440.5E	656	1171	F R	Wind turbine
	14270	AVESTA	600625.5N 0160553.8E	656	1184	FLG W	Wind turbine
	14443	ÅMOT	605600.9N 0162459.1E (*)	591	1624	F R	Mast
	14444	ÅMOT	605424.3N 0162629.1E (*)	492	1562	F R	Mast
	14863	LÅNGSHYTTAN	603226.4N 0160557.1E	656	1642	FLG W	Wind turbine
	14864	LÅNGSHYTTAN	603226.4N 0160507.1E	656	1636	FLG W	Wind turbine
	14865	LÅNGSHYTTAN	603227.9N 0160430.4E	656	1593	F R	Wind turbine
	14866	LÅNGSHYTTAN	603219.4N 0160320.7E	656	1681	FLG W	Wind turbine
	14867	LÅNGSHYTTAN	603209.7N 0160510.3E	656	1599	F R	Wind turbine
	14868	LÅNGSHYTTAN	603202.7N 0160436.5E	656	1603	F R	Wind turbine
	14869	LÅNGSHYTTAN	603151.9N 0160455.3E	656	1659	FLG W	Wind turbine
	15768	HOFORS	603006.1N 0161417.3E	656	1286	FLG W	Wind turbine
	15769	HOFORS	602959.5N 0161451.1E	656	1234	FLG W	Wind turbine
	15770	HOFORS	602940.4N 0161446.8E	656	1168	FLG W	Wind turbine
	15771	HOFORS	602940.3N 0161359.4E	656	1204	FLG W	Wind turbine
	15772	HOFORS	602144.3N 0162850.5E	656	1222	FLG W	Wind turbine
	15773	HOFORS	602104.4N 0162912.4E	656	1186	FLG W	Wind turbine
	15774	HOFORS	602110.3N 0162752.6E	656	1190	FLG W	Wind turbine
	15775	HOFORS	602045.1N 0162814.9E	656	1294	FLG R	Wind turbine
	15776	HOFORS	602022.1N 0162721.6E	656	1259	FLG W	Wind turbine
	15777	HOFORS	602015.2N 0162825.2E	656	1257	FLG R	Wind turbine
	15778	HOFORS	602002.1N 0162911.1E	656	1208	FLG W	Wind turbine
	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
60N 17E	383	GÄVLE	603751.1N 0170745.2E	1070	1220	F R/FLG W	Mast
	384	SKUTSKÄR	603844.2N 0172315.8E	394	423	F R	Chimney
	386	GÄVLE/KARSKÄRSVERKEN	604058.3N 0171617.5E	482	505	F R	Chimney
	681	SALSTA/SLÄSBY	600445.2N 0174950.2E	374	606	F R	Mast
	1145	TÄRNSJÖ	600921.4N 0170226.9E	348	525	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	335	494	F R	Mast
	3224	TOBO	601712.7N 0173959.8E	394	539	F R	Mast
	6370	SKUTSKÄR	603842.7N 0172320.2E (*)	335	358	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
	10064	TRÖDJE	605001.8N 0170924.2E (*)	384	495	F R	Mast
	13297	GÄVLE	603338.3N 0171316.9E (*)	486	663	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
60N 18E	394	ÖSTHAMMAR/VALÖ	601546.9N 0180421.3E	1086	1228	F R/FLG W	Mast
	395	FORSMARK 1	602414.6N 0181027.1E (*)	328	338	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
	863	FORSMARK 6	602347.6N 0180936.1E	384	409	F R	Mast
	1134	HALLSTAVIK	600417.4N 0183446.2E	338	388	F R	Mast
	1404	LÅNGALMA	601613.6N 0182825.7E	348	366	F R	Mast
	3918	GUDINGE	603127.4N 0180043.8E	696	705	F R/FLG W	Mast, Note:Support cables within

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
							radius 300 m.
	5091	FORSMARK	602410.8N 0181034.3E (*)	328	338	F R	Chimney
	11063	FLOTTSKÄR	602905.3N 0180147.6E (*)	394	427	F R	Mast
	11938	HALLSTAVIK	600459.4N 0183359.0E (*)	607	699	FLG R	Wind turbine
	11939	HALLSTAVIK	600448.5N 0183416.0E (*)	607	699	FLG R	Wind turbine
	11940	HALLSTAVIK	600427.1N 0183322.8E (*)	607	709	FLG R	Wind turbine
	11941	HALLSTAVIK	600418.0N 0183342.5E (*)	607	705	FLG R	Wind turbine
	11942	HALLSTAVIK	600350.6N 0183355.8E (*)	607	689	FLG R	Wind turbine
	11943	HALLSTAVIK	600520.9N 0183258.6E (*)	607	696	FLG R	Wind turbine
	11944	HALLSTAVIK	600522.2N 0183325.1E (*)	607	696	FLG R	Wind turbine
	11945	HALLSTAVIK	600517.9N 0183409.9E (*)	607	673	FLG R	Wind turbine
	11946	HALLSTAVIK	600504.9N 0183234.4E (*)	607	689	FLG R	Wind turbine
	11947	HALLSTAVIK	600454.2N 0183316.7E (*)	607	709	FLG R	Wind turbine
	11948	HALLSTAVIK	600525.0N 0183212.4E (*)	607	653	FLG W	Wind turbine
	11949	HALLSTAVIK	600531.5N 0183400.3E (*)	607	682	FLG W	Wind turbine
	11950	HALLSTAVIK	600510.1N 0183202.2E (*)	607	659	FLG W	Wind turbine
	11951	HALLSTAVIK	600426.2N 0183246.9E (*)	607	692	FLG W	Wind turbine
	11952	HALLSTAVIK	600431.0N 0183428.8E (*)	607	692	FLG W	Wind turbine
	11953	HALLSTAVIK	600357.5N 0183321.8E (*)	607	699	FLG W	Wind turbine
	11954	HALLSTAVIK	600357.5N 0183426.8E (*)	607	692	FLG W	Wind turbine
	12377	FORSMARK	602429.8N 0180952.5E (*)	335	358	F R	Mast
61N 13E	407	TRANSTRAND	610307.9N 0131812.2E	361	2295	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	14552	ÅNDBERGET	614257.6N 0135726.7E	591	2949	FLG W	Wind turbine
	14553	ÅNDBERGET	614303.3N 0135932.6E	591	2841	FLG W	Wind turbine
	14554	ÅNDBERGET	614244.9N 0135623.7E	591	3045	F R	Wind turbine
	14555	ÅNDBERGET	614243.3N 0135751.5E	591	3012	F R	Wind turbine
	14556	ÅNDBERGET	614241.6N 0135832.5E	591	2930	FLG W	Wind turbine
	14557	ÅNDBERGET	614243.6N 0135957.8E	591	2943	F R	Wind turbine
	14560	ÅNDBERGET	614233.1N 0135653.7E	591	3041	F R	Wind turbine
	14561	ÅNDBERGET	614223.8N 0135723.9E	591	3002	F R	Wind turbine
	14562	ÅNDBERGET	614227.0N 0135807.4E	591	3110	FLG W	Wind turbine
	14564	ÅNDBERGET	614207.7N 0135950.6E	591	2956	F R	Wind turbine
	14567	ÅNDBERGET	614153.5N 0135917.3E	591	2963	FLG W	Wind turbine
	14568	ÅNDBERGET	614133.5N 0135920.0E	591	2858	FLG W	Wind turbine
61N 14E	409	MORA/ELDRIS	610101.5N 0141743.7E	1063	2817	FLG W	Mast
	410	SVEG/BRICKAN	615524.8N 0141844.4E	1060	3374	F R/FLG W	Mast
	412	KRÄCKELBÄCKEN	612934.0N 0141229.0E	335	2667	F R	Mast
	8663	BRICKAN	615520.1N 0141825.9E (*)	410	2690	F R	Wind turbine
	11553	SKAFTÅSEN	614534.3N 0142722.4E (*)	459	2608	F R	Mast
	11919	BÖSJÖVARDEN	611907.4N 0142004.1E (*)	492	2625	FLG R	Wind turbine
	11920	BÖSJÖVARDEN	611852.6N 0141947.9E (*)	492	2730	FLG R	Wind turbine
	11921	BÖSJÖVARDEN	611855.1N 0141914.8E (*)	492	2644	FLG R	Wind turbine
	11923	BÖSJÖVARDEN	611827.2N 0141904.3E (*)	492	2575	FLG R	Wind turbine
	11924	BÖSJÖVARDEN	611817.1N 0141930.4E (*)	492	2575	FLG R	Wind turbine
	11925	BÖSJÖVARDEN	611831.9N 0141957.5E (*)	492	2621	FLG R	Wind turbine
	11926	BÖSJÖVARDEN	611756.7N 0141922.3E (*)	492	2520	FLG R	Wind turbine
	11927	BÖSJÖVARDEN	611803.4N 0142003.7E (*)	492	2520	FLG R	Wind turbine
	12090	MÄSSINGBERGET	611935.3N 0143714.7E (*)	476	2356	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 0143507.5E (*)	476	2323	FLG R	Wind turbine
	12099	MÄSSINGBERGET	611901.7N 0143510.6E (*)	476	2320	FLG R	Wind turbine
	12100	MÄSSINGBERGET	611856.5N 0143559.0E (*)	476	2329	FLG 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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	14796	SKAFTÅSEN	614438.8N 0142854.1E	591	2772	F R	Wind turbine
	14797	SKAFTÅSEN	614419.7N 0142828.6E	591	2677	F R	Wind turbine
	14798	SKAFTÅSEN	614408.3N 0142904.3E	591	2750	F R	Wind turbine
	14799	SKAFTÅSEN	614415.4N 0142737.9E	591	2636	F R	Wind turbine
	14800	SKAFTÅSEN	614408.8N 0142659.3E	591	2583	FLG W	Wind turbine
	14801	SKAFTÅSEN	614350.1N 0142709.4E	591	2614	F R	Wind turbine
	14802	SKAFTÅSEN	614345.4N 0142749.4E	591	2806	F R	Wind turbine
	14803	SKAFTÅSEN	614342.3N 0142823.0E	591	2784	FLG W	Wind turbine
	14804	SKAFTÅSEN	614355.0N 0142936.4E	591	2671	F R	Wind turbine
	14805	SKAFTÅSEN	614351.3N 0143027.1E	591	2659	FLG W	Wind turbine
	14806	SKAFTÅSEN	614306.2N 0142414.8E	591	2541	FLG W	Wind turbine
	14807	SKAFTÅSEN	614310.0N 0142459.0E	591	2588	F R	Wind turbine
	14808	SKAFTÅSEN	614310.0N 0142536.8E	591	2673	F R	Wind turbine
	14809	SKAFTÅSEN	614226.6N 0142448.8E	591	2523	FLG W	Wind turbine
	14810	SKAFTÅSEN	614237.6N 0142533.8E	591	2529	FLG W	Wind turbine
61N 15E	1029	GAMMELMORSBERGET	615119.0N 0151306.9E	338	2082	F R	Mast
	9184	STORBERGET	611108.1N 0152253.0E (*)	410	1972	FLG R	Wind turbine
	9185	STORBERGET	611055.0N 0152253.4E (*)	410	1952	F R	Wind turbine
	9186	STORBERGET	611044.9N 0152310.8E (*)	410	2034	F R	Wind turbine
	9187	STORBERGET	611036.4N 0152341.2E (*)	410	1936	FLG R	Wind turbine
	9188	STORBERGET	611049.6N 0152415.9E (*)	459	1886	F R	Wind turbine
	9189	STORBERGET	611037.3N 0152423.5E (*)	410	1824	FLG R	Wind turbine
	9190	STORBERGET	611020.7N 0152243.4E (*)	410	1969	F R	Wind turbine
	9191	STORBERGET	611010.3N 0152256.7E (*)	410	1919	F R	Wind turbine
	9192	STORBERGET	611004.7N 0152316.6E (*)	410	1969	FLG R	Wind turbine
	10105	STORBERGET	611014.6N 0152322.6E (*)	492	1985	FLG R	Wind turbine
	10106	STORBERGET	611030.7N 0152303.3E (*)	492	2034	F R	Wind turbine
	10107	STORBERGET	611058.1N 0152320.0E (*)	492	1975	FLG R	Wind turbine
	10108	STORBERGET	611103.9N 0152149.6E (*)	492	1909	FLG R	Wind turbine
	10109	STORBERGET	611050.9N 0152213.2E (*)	492	2018	FLG R	Wind turbine
	10110	STORBERGET	611028.2N 0152221.2E (*)	492	1985	FLG R	Wind turbine
	11435	LÅNGBERGET	615214.6N 0150952.5E (*)	459	2165	F R	Mast
	11479	SVARTVALLSBERGET	614335.1N 0155916.0E (*)	456	1683	FLG R	Wind turbine
	11480	SVARTVALLSBERGET	614345.1N 0155932.7E (*)	456	1594	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	614331.6N 0155720.5E (*)	456	1703	F R	Wind turbine
	11487	SVARTVALLSBERGET	614318.7N 0155733.8E (*)	456	1759	F R	Wind turbine
	11488	SVARTVALLSBERGET	614353.0N 0155809.1E (*)	456	1703	F R	Wind turbine
	12643	FLACKÅSEN	615551.7N 0151001.6E (*)	476	2169	F R	Mast
	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	443	2182	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
61N 16E	419	HUDIKSVALL	614224.8N 0165121.7E	1099	2154	FLG W	Mast
	422	BOLLNÄS/ARBRÅ	612900.5N 0161245.8E	1086	2456	FLG W	Mast
	9548	BLECKEBERGET	613634.3N 0160214.0E (*)	328	1736	F R	Mast
	9829	GAMMELMYRAN	613531.9N 0160627.3E (*)	394	1755	F R	Mast
	9961	GOPÅSEN	610448.1N 0162442.7E (*)	328	1417	F R	Mast
	9962	GRÖNVIKEN	610032.6N 0163632.7E (*)	328	1165	F R	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
	10189	LÅNGBO	611100.1N 0160646.7E (*)	394	1749	F R	Mast
	10194	KLUBBÄCKEN	610252.3N 0164656.0E (*)	328	853	F R	Mast
	10206	LINGBO	610504.6N 0163354.3E (*)	328	1329	F R	Mast
	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
	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
	13261	SÖDERVALLSÅSEN	613505.4N 0160612.6E (*)	492	1883	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13747	TÖNSEN	610834.3N 0162732.7E (*)	591	1716	FLG W	Wind turbine
	13748	TÖNSEN	610823.8N 0162806.7E (*)	591	1650	F R	Wind turbine
	13749	TÖNSEN	610819.8N 0162842.3E (*)	591	1640	F R	Wind turbine
	13750	TÖNSEN	610853.4N 0162837.7E (*)	591	1677	FLG W	Wind turbine
	13751	TÖNSEN	610833.8N 0162912.2E (*)	591	1657	F R	Wind turbine
	13752	TÖNSEN	610804.9N 0162913.5E (*)	591	1667	F R	Wind turbine
	13753	TÖNSEN	610828.7N 0163002.8E (*)	591	1663	FLG W	Wind turbine
	13754	TÖNSEN	610809.2N 0163011.0E (*)	591	1693	FLG W	Wind turbine
	13755	TÖNSEN	610725.9N 0162722.4E (*)	591	1673	FLG W	Wind turbine
	13756	TÖNSEN	610712.7N 0162750.4E (*)	591	1640	F R	Wind turbine
	13757	TÖNSEN	610659.6N 0162826.2E (*)	591	1726	F R	Wind turbine
	13758	TÖNSEN	610647.8N 0162852.4E (*)	591	1690	F R	Wind turbine
	13759	TÖNSEN	610709.3N 0162917.2E (*)	591	1709	F R	Wind turbine
	13760	TÖNSEN	610649.2N 0162935.8E (*)	591	1713	F R	Wind turbine
	13761	TÖNSEN	610636.0N 0163014.0E (*)	591	1654	F R	Wind turbine
	13762	TÖNSEN	610655.1N 0163020.1E (*)	591	1631	F R	Wind turbine
	13763	TÖNSEN	610646.9N 0163056.3E (*)	591	1631	F R	Wind turbine
	13764	TÖNSEN	610629.1N 0163104.5E (*)	591	1696	F R	Wind turbine
	13765	TÖNSEN	610627.1N 0163141.8E (*)	591	1752	FLG W	Wind turbine
	13766	TÖNSEN	610628.8N 0162909.4E (*)	591	1631	FLG W	Wind turbine
	13767	TÖNSEN	610605.0N 0163043.8E (*)	591	1594	F R	Wind turbine
	13768	TÖNSEN	610559.1N 0163121.7E (*)	591	1581	F R	Wind turbine
	13769	TÖNSEN	610542.2N 0163205.0E (*)	591	1650	FLG W	Wind turbine
	13770	TÖNSEN	610610.8N 0163231.3E (*)	591	1716	F R	Wind turbine
	13771	TÖNSEN	610554.7N 0163254.6E (*)	591	1709	F R	Wind turbine
	13772	TÖNSEN	610614.9N 0163316.2E (*)	591	1631	FLG W	Wind turbine
	13773	TÖNSEN	610600.5N 0163436.6E (*)	591	1722	FLG W	Wind turbine
	13774	ÅMOT	610514.8N 0162333.8E (*)	591	1696	FLG W	Wind turbine
	13775	ÅMOT	610511.8N 0162414.5E (*)	591	1778	F R	Wind turbine
	13776	ÅMOT	610459.8N 0162452.0E (*)	591	1706	F R	Wind turbine
	13777	ÅMOT	610454.3N 0162533.1E (*)	591	1637	FLG W	Wind turbine
	13778	ÅMOT	610447.2N 0162729.8E (*)	591	1634	FLG W	Wind turbine
	13779	ÅMOT	610429.3N 0162751.8E (*)	591	1624	F R	Wind turbine
	13780	ÅMOT	610439.5N 0162650.0E (*)	591	1614	F R	Wind turbine
	13781	ÅMOT	610400.1N 0162756.7E (*)	591	1558	F R	Wind turbine
	13782	ÅMOT	610443.8N 0162929.2E (*)	591	1608	FLG W	Wind turbine
	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
61N 17E	428	IGGESUND/BRUKET	613821.8N 0170549.2E	400	407	F R	Chimney
	1025	SÖDERHAMN/MALA	611935.9N 0170612.0E	456	573	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
	10766	GODDAGSMYRAN	610729.1N 0170330.3E (*)	492	627	F R	Mast
	10767	STRANDFÄBODARNA	610429.2N 0170200.8E (*)	492	722	F R	Mast
	11117	ILSBO	614934.6N 0170514.7E (*)	394	837	F R	Mast
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
	11663	TROLLKÄRINGVALLEN	622241.5N 0125236.5E (*)	410	3117	FLG W	Wind turbine
	11664	TROLLKÄRINGVALLEN	622249.7N 0125259.1E (*)	410	3150	FLG W	Wind turbine
	11665	TROLLKÄRINGVALLEN	622305.1N 0125256.0E (*)	410	3071	FLG W	Wind turbine
62N 13E	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

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Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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 0140639.6E (*)	456	3081	F R	Wind turbine
	9595	RODOVÅLEN	622045.7N 0140705.4E (*)	456	3081	F R	Wind turbine
	9697	NYMYRMON/DALÅSBODARNA	624739.5N 0140615.4E (*)	328	2100	F R	Mast
	9927	SVEDJE/KOMMERBERGET	625518.4N 0141611.5E (*)	456	2310	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
	11098	LÄNSTERHÖJDEN	623306.6N 0145653.1E (*)	394	2119	F R	Mast
	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
	11362	RÄTAN	622543.4N 0144425.4E (*)	587	2425	FLG W	Wind turbine
	11363	RÄTAN	622603.6N 0144401.6E (*)	587	2349	FLG W	Wind turbine
	11364	RÄTAN	622553.6N 0144248.6E (*)	587	2372	FLG W	Wind turbine
	11365	RÄTAN	622532.4N 0144304.5E (*)	587	2372	FLG W	Wind turbine
	11366	RÄTAN	622539.5N 0144216.0E (*)	587	2408	FLG W	Wind turbine
	11367	RÄTAN	622535.0N 0144057.4E (*)	587	2385	FLG W	Wind turbine
	11368	RÄTAN	622549.5N 0144027.9E (*)	587	2421	FLG W	Wind turbine
	11369	RÄTAN	622533.0N 0144011.1E (*)	587	2421	FLG W	Wind turbine
	11370	RÄTAN	622511.6N 0144016.4E (*)	587	2425	FLG W	Wind turbine
	11371	RÄTAN	622604.6N 0143958.4E (*)	587	2343	FLG W	Wind turbine
	11372	RÄTAN	622548.1N 0143925.5E (*)	587	2418	FLG W	Wind turbine
	11373	RÄTAN	622525.3N 0143905.6E (*)	587	2316	FLG W	Wind turbine
	11374	RÄTAN	622609.1N 0143825.5E (*)	587	2290	FLG W	Wind turbine
	11656	RÄTANS-DIGERBERGET	623051.0N 0143808.8E (*)	476	2156	FLG R	Wind turbine
	11657	RÄTANS-DIGERBERGET	623038.3N 0143901.6E (*)	476	2139	FLG W	Wind turbine
	11658	RÄTANS-DIGERBERGET	623033.6N 0143849.1E (*)	476	2116	FLG W	Wind turbine
	11659	RÄTANS-DIGERBERGET	623019.2N 0143818.8E (*)	459	2110	FLG W	Wind turbine
	11660	RÄTANS-DIGERBERGET	623032.7N 0143936.0E (*)	476	2054	FLG W	Wind turbine
	13623	RÄTAN	623434.0N 0145522.6E (*)	722	2395	FLG W	Wind turbine
	13624	RÄTAN	623411.4N 0145517.0E (*)	722	2421	F R	Wind turbine
	13625	RÄTAN	623417.4N 0145600.6E (*)	722	2421	F R	Wind turbine
	13626	RÄTAN	623401.8N 0145615.2E (*)	722	2425	FLG W	Wind turbine
	13627	RÄTAN	623356.5N 0145532.0E (*)	722	2503	F R	Wind turbine
	13631	RÄTAN	623342.0N 0145511.1E (*)	722	2434	FLG W	Wind turbine
	13632	RÄTAN	623326.1N 0145528.9E (*)	722	2457	F R	Wind turbine

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Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13633	RÄTAN	623333.8N 0145604.3E (*)	722	2510	F R	Wind turbine
	13634	RÄTAN	623326.6N 0145641.2E (*)	722	2507	F R	Wind turbine
	13635	RÄTAN	623310.0N 0145656.8E (*)	722	2441	FLG W	Wind turbine
	13728	RÄTAN	623308.4N 0145550.2E (*)	722	2461	F R	Wind turbine
	13729	RÄTAN	623253.7N 0145531.6E (*)	722	2405	FLG W	Wind turbine
	13730	RÄTAN	623252.8N 0145619.1E (*)	722	2438	F R	Wind turbine
	13731	RÄTAN	623252.9N 0145659.2E (*)	722	2408	F R	Wind turbine
	13732	RÄTAN	623222.9N 0145611.7E (*)	722	2405	F R	Wind turbine
	13733	RÄTAN	623223.7N 0145700.0E (*)	722	2438	F R	Wind turbine
	13734	RÄTAN	623146.9N 0145724.2E (*)	722	2382	FLG W	Wind turbine
	13735	RÄTAN	623154.6N 0145639.7E (*)	722	2359	F R	Wind turbine
	13736	RÄTAN	623139.3N 0145650.7E (*)	722	2372	FLG W	Wind turbine
	13737	RÄTAN	623115.6N 0145721.6E (*)	722	2349	FLG W	Wind turbine
	13974	ALBY	623034.2N 0145957.7E (*)	722	2270	FLG W	Wind turbine
62N 15E	438	ÅNGE	623010.7N 0152240.2E	1083	2652	F R/FLG W	Mast
	10943	NORDANBERGSMYRAN	621634.2N 0155058.0E (*)	394	1932	F R	Mast
	11396	MÖRTTJÄRNBERGET	624215.4N 0155456.3E (*)	564	2192	FLG W	Wind turbine
	11397	MÖRTTJÄRNBERGET	624232.6N 0155511.0E (*)	564	2195	F R	Wind turbine
	11398	MÖRTTJÄRNBERGET	624237.1N 0155544.9E (*)	564	2211	F R	Wind turbine
	11399	MÖRTTJÄRNBERGET	624241.0N 0155619.9E (*)	564	2175	F R	Wind turbine
	11400	MÖRTTJÄRNBERGET	624302.2N 0155642.7E (*)	564	2185	F R	Wind turbine
	11401	MÖRTTJÄRNBERGET	624247.8N 0155658.7E (*)	564	2195	FLG W	Wind turbine
	11402	MÖRTTJÄRNBERGET	624252.4N 0155739.2E (*)	564	2142	F R	Wind turbine
	11403	MÖRTTJÄRNBERGET	624302.6N 0155814.9E (*)	564	2159	F R	Wind turbine
	11404	MÖRTTJÄRNBERGET	624308.8N 0155846.8E (*)	564	2228	FLG W	Wind turbine
	11405	MÖRTTJÄRNBERGET	624255.3N 0155539.3E (*)	564	2142	F R	Wind turbine
	11406	MÖRTTJÄRNBERGET	624312.1N 0155612.0E (*)	564	2172	F R	Wind turbine
	11407	MÖRTTJÄRNBERGET	624317.9N 0155650.5E (*)	564	2172	F R	Wind turbine
	11408	MÖRTTJÄRNBERGET	624315.2N 0155739.2E (*)	564	2162	F R	Wind turbine
	11409	MÖRTTJÄRNBERGET	624322.2N 0155817.4E (*)	564	2172	F R	Wind turbine
	11410	MÖRTTJÄRNBERGET	624325.7N 0155852.4E (*)	564	2228	F R	Wind turbine
	11411	MÖRTTJÄRNBERGET	624301.4N 0155434.6E (*)	564	2136	F R	Wind turbine
	11412	MÖRTTJÄRNBERGET	624312.2N 0155501.2E (*)	564	2152	F R	Wind turbine
	11413	MÖRTTJÄRNBERGET	624320.2N 0155530.9E (*)	564	2149	F R	Wind turbine
	11414	MÖRTTJÄRNBERGET	624329.8N 0155603.7E (*)	564	2096	F R	Wind turbine
	11415	MÖRTTJÄRNBERGET	624334.1N 0155646.1E (*)	564	2159	F R	Wind turbine
	11416	MÖRTTJÄRNBERGET	624330.8N 0155721.2E (*)	564	2142	F R	Wind turbine
	11417	MÖRTTJÄRNBERGET	624341.0N 0155749.0E (*)	564	2224	F R	Wind turbine
	11418	MÖRTTJÄRNBERGET	624337.9N 0155821.8E (*)	564	2251	F R	Wind turbine
	11419	MÖRTTJÄRNBERGET	624338.8N 0155913.4E (*)	564	2208	FLG W	Wind turbine
	11420	MÖRTTJÄRNBERGET	624307.6N 0155401.0E (*)	564	2116	FLG W	Wind turbine
	11421	MÖRTTJÄRNBERGET	624327.6N 0155445.5E (*)	564	2116	F R	Wind turbine
	11422	MÖRTTJÄRNBERGET	624341.3N 0155510.7E (*)	564	2126	F R	Wind turbine
	11423	MÖRTTJÄRNBERGET	624347.9N 0155541.9E (*)	564	2129	F R	Wind turbine
	11424	MÖRTTJÄRNBERGET	624349.7N 0155618.9E (*)	564	2123	F R	Wind turbine
	11425	MÖRTTJÄRNBERGET	624358.1N 0155739.9E (*)	564	2234	F R	Wind turbine
	11426	MÖRTTJÄRNBERGET	624357.2N 0155814.4E (*)	564	2241	FLG W	Wind turbine
	11427	MÖRTTJÄRNBERGET	624349.4N 0155847.1E (*)	564	2264	F R	Wind turbine
	11428	MÖRTTJÄRNBERGET	624328.3N 0155405.7E (*)	564	2087	F R	Wind turbine
	11429	MÖRTTJÄRNBERGET	624342.2N 0155427.2E (*)	564	2090	FLG W	Wind turbine
	11430	MÖRTTJÄRNBERGET	624354.9N 0155441.8E (*)	564	2064	F R	Wind turbine
	11431	MÖRTTJÄRNBERGET	624359.9N 0155516.1E (*)	564	2083	F R	Wind turbine
	11432	MÖRTTJÄRNBERGET	624406.9N 0155557.9E (*)	564	2077	FLG W	Wind turbine
	11618	ÖSTAVALL	622449.9N 0153252.3E (*)	394	1952	F R	Mast
	11619	ÖSTAVALL	622707.1N 0153109.1E (*)	394	1693	F R	Mast
	12197	STORFLÖTTEN	623031.5N 0150208.2E (*)	394	1991	F R	Mast
	12832	VÅSBERGET	620735.9N 0153146.3E (*)	568	2280	FLG W	Wind turbine
	12833	VÅSBERGET	620742.8N 0153215.8E (*)	568	2343	FLG W	Wind turbine
	12834	VÅSBERGET	620744.1N 0153213.1E (*)	568	2362	FLG W	Wind turbine
	12835	VÅSBERGET	620803.2N 0153200.6E (*)	568	2398	FLG W	Wind turbine
	12836	VÅSBERGET	620816.3N 0153133.6E (*)	568	2385	FLG W	Wind turbine
	12837	VÅSBERGET	620723.5N 0153132.8E (*)	568	2224	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
	12838	VÅSBERGET	620722.2N 0153208.6E (*)	568	2260	FLG W	Wind turbine
	12839	VÅSBERGET	620706.2N 0153151.5E (*)	568	2274	FLG W	Wind turbine
	13361	RIBERGET	621821.6N 0153012.4E (*)	427	1959	F R	Mast
	13362	BRÄCKE/FASIKAN	623802.6N 0153437.0E (*)	502	2192	F R	Mast
	13912	BRÄCKE	624425.9N 0153208.2E (*)	591	2241	F R	Wind turbine
	13913	BRÄCKE	624447.5N 0153143.1E (*)	591	2218	FLG W	Wind turbine
	13914	BRÄCKE	624409.9N 0153234.3E (*)	591	2310	FLG W	Wind turbine
	13915	BRÄCKE	624418.6N 0153316.1E (*)	591	2333	FLG W	Wind turbine
	13916	BRÄCKE	624401.8N 0153432.1E (*)	591	2234	FLG W	Wind turbine
	13917	BRÄCKE	624727.8N 0153108.3E (*)	591	2270	FLG W	Wind turbine
	13918	BRÄCKE	624708.7N 0153100.1E (*)	591	2264	F R	Wind turbine
	13919	BRÄCKE	624656.4N 0153216.8E (*)	591	2300	FLG W	Wind turbine
	13920	BRÄCKE	624659.7N 0153141.4E (*)	591	2329	F R	Wind turbine
	13921	BRÄCKE	624644.7N 0153119.1E (*)	591	2293	FLG W	Wind turbine
	13922	BRÄCKE	624628.0N 0153223.2E (*)	591	2349	FLG W	Wind turbine
	13966	ALBY	623057.9N 0150417.1E (*)	722	2306	FLG W	Wind turbine
	13967	ALBY	623047.0N 0150341.6E (*)	722	2365	F R	Wind turbine
	13968	ALBY	623052.2N 0150242.8E (*)	722	2349	F R	Wind turbine
	13969	ALBY	623106.8N 0150218.6E (*)	722	2375	FLG W	Wind turbine
	13970	ALBY	623115.2N 0150146.5E (*)	722	2382	F R	Wind turbine
	13971	ALBY	623116.3N 0150101.3E (*)	722	2369	FLG W	Wind turbine
	13972	ALBY	623058.1N 0150123.4E (*)	722	2343	F R	Wind turbine
	13973	ALBY	623057.1N 0150031.8E (*)	722	2365	F R	Wind turbine
	13975	ALBY	623041.0N 0150059.1E (*)	722	2375	F R	Wind turbine
	13976	ALBY	623028.6N 0150138.1E (*)	722	2382	F R	Wind turbine
	13977	ALBY	623017.5N 0150044.9E (*)	722	2382	F R	Wind turbine
	13978	ALBY	623000.3N 0150101.4E (*)	722	2326	F R	Wind turbine
	13979	ALBY	622945.4N 0150127.5E (*)	722	2372	F R	Wind turbine
	13980	ALBY	622932.4N 0150154.6E (*)	722	2402	F R	Wind turbine
	13981	ALBY	622919.2N 0150222.8E (*)	722	2434	F R	Wind turbine
	13982	ALBY	622851.7N 0150213.3E (*)	722	2434	FLG W	Wind turbine
	13983	ALBY	622905.5N 0150111.3E (*)	722	2274	FLG W	Wind turbine
	13984	ALBY	622909.9N 0150035.4E (*)	722	2264	FLG W	Wind turbine
	13985	ALBY	622955.8N 0150209.1E (*)	722	2431	F R	Wind turbine
	13986	ALBY	623019.8N 0150219.5E (*)	722	2418	F R	Wind turbine
	13987	ALBY	622956.2N 0150327.7E (*)	722	2467	F R	Wind turbine
	13988	ALBY	623001.9N 0150250.1E (*)	722	2520	F R	Wind turbine
	13989	ALBY	622950.6N 0150505.3E (*)	722	2408	F R	Wind turbine
	13990	ALBY	622953.3N 0150543.0E (*)	722	2365	FLG W	Wind turbine
	13991	ALBY	622936.2N 0150607.1E (*)	722	2323	F R	Wind turbine
	13992	ALBY	622929.0N 0150652.9E (*)	722	2290	FLG W	Wind turbine
	13993	ALBY	622905.3N 0150649.8E (*)	722	2293	F R	Wind turbine
	13994	ALBY	622842.4N 0150727.3E (*)	722	2375	FLG W	Wind turbine
	13995	ALBY	622906.0N 0150729.0E (*)	722	2208	FLG W	Wind turbine
	13996	ALBY	622838.7N 0150641.3E (*)	722	2247	FLG W	Wind turbine
	13997	ALBY	622919.6N 0150411.5E (*)	722	2477	F R	Wind turbine
	13998	ALBY	622917.6N 0150447.8E (*)	722	2477	F R	Wind turbine
	13999	ALBY	622903.7N 0150519.3E (*)	722	2448	FLG W	Wind turbine
	14000	ALBY	622922.8N 0150539.6E (*)	722	2395	F R	Wind turbine
	14001	ALBY	622905.0N 0150558.2E (*)	722	2339	F R	Wind turbine
	14330	MÖRTTJÄRNBERGET	624407.7N 0155506.2E (*)	371	1854	F R	Mast
	14422	RAMSJÖ	621500.6N 0153628.6E	459	1765	F R	Mast
	14423	RAMSJÖ	621750.2N 0153726.4E	459	1864	F R	Mast
	15419	ÅNGE	622527.2N 0154550.0E	722	2365	FLG W	Wind turbine
	15420	ÅNGE	622508.3N 0154627.2E	722	2346	F R	Wind turbine
	15421	ÅNGE	622453.6N 0154504.7E	722	2303	FLG W	Wind turbine
	15422	ÅNGE	622428.3N 0154510.8E	722	2329	FLG W	Wind turbine
	15423	ÅNGE	622431.5N 0154423.6E	722	2244	F R	Wind turbine
	15424	ÅNGE	622443.5N 0155054.4E	722	2133	F R	Wind turbine
	15425	ÅNGE	622407.0N 0154424.6E	722	2329	F R	Wind turbine
	15426	ÅNGE	622131.8N 0154937.3E	722	2113	FLG W	Wind turbine
	15427	ÅNGE	622340.3N 0154438.0E	722	2303	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
	15428	ÅNGE	622327.5N 0154516.5E	722	2264	F R	Wind turbine
	15429	ÅNGE	622514.2N 0154528.0E	722	2231	FLG W	Wind turbine
	15430	ÅNGE	622354.9N 0154529.5E	722	2297	F R	Wind turbine
	15431	ÅNGE	622331.8N 0154807.5E	722	2188	F R	Wind turbine
	15432	ÅNGE	621927.7N 0154457.1E	722	2034	F R	Wind turbine
	15433	ÅNGE	622327.2N 0154940.3E	722	2093	F R	Wind turbine
	15434	ÅNGE	622239.8N 0154619.6E	722	2205	F R	Wind turbine
	15435	ÅNGE	622206.9N 0154624.7E	722	2241	FLG W	Wind turbine
	15436	ÅNGE	622305.3N 0154814.2E	722	2159	F R	Wind turbine
	15437	ÅNGE	622332.0N 0154619.1E	722	2247	F R	Wind turbine
	15438	ÅNGE	622142.5N 0154600.3E	722	2293	F R	Wind turbine
	15439	ÅNGE	622149.8N 0154524.2E	722	2303	F R	Wind turbine
	15440	ÅNGE	622138.6N 0154641.0E	722	2234	F R	Wind turbine
	15441	ÅNGE	622140.7N 0154727.9E	722	2274	F R	Wind turbine
	15442	ÅNGE	622151.0N 0154833.2E	722	2244	F R	Wind turbine
	15443	ÅNGE	622138.0N 0154342.7E	722	2162	F R	Wind turbine
	15444	ÅNGE	622212.6N 0154905.9E	722	2297	FLG W	Wind turbine
	15445	ÅNGE	622224.4N 0154942.5E	722	2333	F R	Wind turbine
	15446	ÅNGE	622211.9N 0155031.3E	722	2136	FLG W	Wind turbine
	15447	ÅNGE	622058.1N 0154353.5E	722	2234	F R	Wind turbine
	15448	ÅNGE	622429.8N 0155021.2E	722	2110	F R	Wind turbine
	15449	ÅNGE	622432.8N 0154607.4E	722	2221	F R	Wind turbine
	15450	ÅNGE	622004.7N 0154626.5E	722	2185	FLG W	Wind turbine
	15451	ÅNGE	621939.4N 0154703.3E	722	2244	F R	Wind turbine
	15452	ÅNGE	622406.9N 0154801.6E	722	2116	F R	Wind turbine
	15466	ÅNGE	622348.9N 0154859.3E	722	2110	F R	Wind turbine
	15467	ÅNGE	622006.9N 0154701.7E	722	2178	F R	Wind turbine
	15468	ÅNGE	622410.8N 0154951.4E	722	2047	F R	Wind turbine
	15469	ÅNGE	622001.8N 0154456.2E	722	2129	F R	Wind turbine
	15470	ÅNGE	622018.2N 0154406.7E	722	2221	FLG W	Wind turbine
	15471	ÅNGE	622044.8N 0154313.6E	722	2195	F R	Wind turbine
	15472	ÅNGE	622038.9N 0154547.6E	722	2185	F R	Wind turbine
	15473	ÅNGE	622040.0N 0154504.6E	722	2205	F R	Wind turbine
	15474	ÅNGE	621936.8N 0154612.8E	722	2146	FLG W	Wind turbine
	15475	ÅNGE	622530.4N 0154624.9E	722	2287	F R	Wind turbine
	15476	ÅNGE	622001.5N 0154258.8E	722	2126	F R	Wind turbine
	15477	ÅNGE	622404.1N 0154500.1E	722	2365	F R	Wind turbine
	15478	ÅNGE	622355.1N 0154651.0E	722	2205	FLG W	Wind turbine
	15479	ÅNGE	622056.5N 0154639.7E	722	2087	F R	Wind turbine
	15480	ÅNGE	622249.1N 0154649.9E	722	2306	F R	Wind turbine
	15481	ÅNGE	622246.4N 0154809.7E	722	2198	FLG W	Wind turbine
	15482	ÅNGE	622139.9N 0154453.9E	722	2234	F R	Wind turbine
	15483	ÅNGE	622433.9N 0154645.7E	722	2142	FLG W	Wind turbine
	15484	ÅNGE	622159.4N 0154951.7E	722	2185	F R	Wind turbine
	15485	ÅNGE	622123.9N 0154734.0E	722	2244	F R	Wind turbine
	15486	ÅNGE	622207.9N 0154709.3E	722	2201	F R	Wind turbine
	15487	ÅNGE	622027.9N 0154251.5E	722	2277	F R	Wind turbine
	15488	ÅNGE	622326.3N 0154654.7E	722	2218	FLG W	Wind turbine
	15489	ÅNGE	622008.0N 0154225.8E	722	2142	F R	Wind turbine
	15490	ÅNGE	622059.5N 0154429.0E	722	2228	F R	Wind turbine
	15491	ÅNGE	622159.9N 0154456.1E	722	2208	FLG W	Wind turbine
	15527	LJUSDAL	621624.0N 0155150.2E	722	2316	FLG W	Wind turbine
	15528	LJUSDAL	621601.8N 0155123.6E	722	2359	FLG W	Wind turbine
	15529	LJUSDAL	621555.2N 0155203.6E	722	2379	F R	Wind turbine
	15530	LJUSDAL	621556.8N 0155241.0E	722	2320	F R	Wind turbine
	15531	LJUSDAL	621557.4N 0155311.0E	722	2316	FLG W	Wind turbine
	15532	LJUSDAL	621532.8N 0155123.6E	722	2241	F R	Wind turbine
	15533	LJUSDAL	621527.5N 0155323.5E	722	2277	FLG W	Wind turbine
	15534	LJUSDAL	621514.9N 0155127.0E	722	2234	FLG W	Wind turbine
	15535	LJUSDAL	621516.2N 0155157.7E	722	2254	F R	Wind turbine
	15536	LJUSDAL	621457.2N 0155240.9E	722	2316	FLG W	Wind turbine
	15537	LJUSDAL	621501.1N 0155311.7E	722	2303	F R	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	15538	LJUSDAL	621459.4N 0155209.9E	722	2277	F R	Wind turbine
62N 16E	444	BISPFORS	625849.4N 0164232.1E	335	1571	F R	Mast
	9284	POPPBERGET	622103.8N 0161719.4E (*)	328	1932	FLG R	Mast
	9348	NYVALLSÅSEN	620554.1N 0165933.7E (*)	328	1460	F R	Mast
	10081	STOR-FUSKBERGET	624302.2N 0165958.3E (*)	328	1699	F R	Mast
	10262	BYXMYRAN	624243.8N 0165426.0E (*)	328	1650	F R	Mast
	10573	NILS-HANSBERGET	624820.1N 0165942.5E (*)	328	1526	F R	Mast
	10855	NYVALLSÅSEN	620601.7N 0165930.9E (*)	492	1555	FLG R	Wind turbine
	10856	NYVALLSÅSEN	620549.9N 0165934.0E (*)	492	1594	FLG R	Wind turbine
	10862	BRÄNNÅSEN	620254.3N 0165641.8E (*)	492	1490	FLG R	Wind turbine
	10863	BRÄNNÅSEN	620244.2N 0165652.8E (*)	492	1493	FLG R	Wind turbine
	10864	BRÄNNÅSEN	620251.9N 0165724.6E (*)	492	1467	FLG R	Wind turbine
	10865	BRÄNNÅSEN	620242.3N 0165741.0E (*)	492	1476	FLG R	Wind turbine
	10946	JÄRVÅSEN	621935.4N 0161208.9E (*)	394	1818	F R	Mast
	11981	NÖTÅSEN	624108.8N 0163700.2E (*)	492	1637	FLG R	Wind turbine
	11982	NÖTÅSEN	624057.0N 0163720.8E (*)	492	1634	FLG R	Wind turbine
	11983	NÖTÅSEN	624047.4N 0163750.9E (*)	492	1601	FLG R	Wind turbine
	11984	NÖTÅSEN	624041.3N 0163658.1E (*)	492	1558	FLG R	Wind turbine
	12444	LIDEN	625003.8N 0165927.8E (*)	446	1752	F R	Mast
	12446	LIDEN	624646.1N 0165824.7E (*)	446	1785	F R	Mast
	13006	LIDEN	624226.7N 0165414.2E (*)	623	1893	F R	Wind turbine
	13007	LIDEN	624241.8N 0165426.1E (*)	623	1952	F R	Wind turbine
	13008	LIDEN	624236.0N 0165326.8E (*)	623	1844	FLG W	Wind turbine
	13009	LIDEN	624249.1N 0165352.4E (*)	623	1942	F R	Wind turbine
	13010	LIDEN	624258.8N 0165325.4E (*)	623	1854	FLG W	Wind turbine
	13011	LIDEN	624228.0N 0165538.5E (*)	623	1880	F R	Wind turbine
	13012	LIDEN	624240.5N 0165604.5E (*)	623	1886	FLG W	Wind turbine
	13013	LIDEN	624219.0N 0165510.7E (*)	623	1900	F R	Wind turbine
	13014	LIDEN	624203.9N 0165537.7E (*)	623	1909	F R	Wind turbine
	13015	LIDEN	624222.8N 0165639.3E (*)	623	1955	F R	Wind turbine
	13016	LIDEN	624229.4N 0165718.7E (*)	623	1969	FLG W	Wind turbine
	13017	LIDEN	624209.7N 0165700.2E (*)	623	1965	F R	Wind turbine
	13018	LIDEN	624203.9N 0165726.6E (*)	623	1900	F R	Wind turbine
	13019	LIDEN	624152.2N 0165625.8E (*)	623	1975	F R	Wind turbine
	13020	LIDEN	624140.0N 0165653.0E (*)	623	1969	F R	Wind turbine
	13021	LIDEN	624149.1N 0165724.6E (*)	623	1936	FLG W	Wind turbine
	13022	LIDEN	624141.5N 0165553.7E (*)	623	1896	F R	Wind turbine
	13023	LIDEN	624136.7N 0165504.7E (*)	623	1919	FLG W	Wind turbine
	13024	LIDEN	624118.5N 0165545.5E (*)	623	1926	F R	Wind turbine
	13025	LIDEN	624044.0N 0165612.0E (*)	623	1870	FLG W	Wind turbine
	13026	LIDEN	624108.2N 0165621.0E (*)	623	1916	F R	Wind turbine
	13027	LIDEN	624108.7N 0165719.1E (*)	623	1919	F R	Wind turbine
	13028	LIDEN	624121.5N 0165812.9E (*)	623	1955	FLG W	Wind turbine
	13502	JÄRKVISSLE	624610.1N 0163418.2E (*)	591	2018	FLG W	Wind turbine
	13503	JÄRKVISSLE	624320.0N 0162741.8E (*)	591	1893	FLG W	Wind turbine
	13504	JÄRKVISSLE	624344.4N 0162740.5E (*)	591	1949	F R	Wind turbine
	13505	JÄRKVISSLE	624420.1N 0162910.9E (*)	591	1936	FLG W	Wind turbine
	13506	JÄRKVISSLE	624412.0N 0162821.8E (*)	591	1975	F R	Wind turbine
	13507	JÄRKVISSLE	624431.9N 0162827.8E (*)	591	1936	F R	Wind turbine
	13508	JÄRKVISSLE	624424.4N 0162748.1E (*)	591	1972	F R	Wind turbine
	13509	JÄRKVISSLE	624440.3N 0162742.7E (*)	591	1936	F R	Wind turbine
	13510	JÄRKVISSLE	624448.0N 0162713.0E (*)	591	1949	FLG W	Wind turbine
	13511	JÄRKVISSLE	624432.1N 0163034.7E (*)	591	1942	FLG W	Wind turbine
	13512	JÄRKVISSLE	624439.3N 0163002.8E (*)	591	2024	F R	Wind turbine
	13513	JÄRKVISSLE	624451.9N 0162942.2E (*)	591	1975	F R	Wind turbine
	13514	JÄRKVISSLE	624507.8N 0162853.2E (*)	591	2021	F R	Wind turbine
	13515	JÄRKVISSLE	624527.0N 0162852.4E (*)	591	2021	F R	Wind turbine
	13516	JÄRKVISSLE	624500.7N 0163119.6E (*)	591	2037	F R	Wind turbine
	13517	JÄRKVISSLE	624505.7N 0163046.9E (*)	591	2024	F R	Wind turbine
	13518	JÄRKVISSLE	624515.2N 0163129.8E (*)	591	2008	F R	Wind turbine
	13519	JÄRKVISSLE	624524.0N 0163058.3E (*)	591	2073	F R	Wind turbine
	13520	JÄRKVISSLE	624525.5N 0163024.0E (*)	591	2044	F R	Wind turbine

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Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13521	JÄRKVISSLE	624539.1N 0163010.6E (*)	591	2060	F R	Wind turbine
	13522	JÄRKVISSLE	624532.6N 0162932.5E (*)	591	2034	F R	Wind turbine
	13523	JÄRKVISSLE	624547.5N 0162929.1E (*)	591	2073	FLG W	Wind turbine
	13524	JÄRKVISSLE	624530.8N 0163200.9E (*)	591	2047	F R	Wind turbine
	13525	JÄRKVISSLE	624544.5N 0163115.9E (*)	591	2110	F R	Wind turbine
	13526	JÄRKVISSLE	624600.0N 0163053.6E (*)	591	2103	F R	Wind turbine
	13527	JÄRKVISSLE	624702.0N 0163132.2E (*)	591	2057	FLG W	Wind turbine
	13528	JÄRKVISSLE	624716.8N 0163203.4E (*)	591	1991	F R	Wind turbine
	13529	JÄRKVISSLE	624732.6N 0163147.0E (*)	591	1978	F R	Wind turbine
	13530	JÄRKVISSLE	624753.4N 0163111.5E (*)	591	2011	FLG W	Wind turbine
	13531	JÄRKVISSLE	624738.5N 0163114.3E (*)	591	1988	F R	Wind turbine
	13532	JÄRKVISSLE	624533.8N 0163348.6E (*)	591	2005	FLG W	Wind turbine
	13533	JÄRKVISSLE	624549.2N 0163331.4E (*)	591	2064	F R	Wind turbine
	13534	JÄRKVISSLE	624606.7N 0163323.6E (*)	591	2087	F R	Wind turbine
	13535	JÄRKVISSLE	624634.6N 0163412.4E (*)	591	2054	F R	Wind turbine
	13536	JÄRKVISSLE	624643.5N 0163344.0E (*)	591	2067	F R	Wind turbine
	13537	JÄRKVISSLE	624634.2N 0163309.0E (*)	591	2064	F R	Wind turbine
	13538	JÄRKVISSLE	624654.0N 0163307.9E (*)	591	2123	F R	Wind turbine
	13539	JÄRKVISSLE	624706.3N 0163326.2E (*)	591	2067	F R	Wind turbine
	13540	JÄRKVISSLE	624702.8N 0163415.1E (*)	591	2018	FLG W	Wind turbine
	13541	JÄRKVISSLE	624730.3N 0163321.5E (*)	591	2070	F R	Wind turbine
	13542	JÄRKVISSLE	624734.9N 0163359.0E (*)	591	2024	FLG W	Wind turbine
	13543	JÄRKVISSLE	624518.1N 0163338.5E (*)	591	1962	F R	Wind turbine
	13544	JÄRKVISSLE	624502.6N 0163353.4E (*)	591	1949	FLG W	Wind turbine
	13560	NEDANSJÖ	623200.4N 0164843.1E (*)	591	1827	FLG W	Wind turbine
	13561	NEDANSJÖ	623218.7N 0164851.4E (*)	591	1841	F R	Wind turbine
	13562	NEDANSJÖ	623228.4N 0164819.1E (*)	591	1844	FLG W	Wind turbine
	13563	NEDANSJÖ	623245.1N 0164804.3E (*)	591	1821	F R	Wind turbine
	13564	NEDANSJÖ	623324.7N 0164824.7E (*)	591	1837	F R	Wind turbine
	13565	NEDANSJÖ	623327.7N 0164746.7E (*)	591	1877	FLG W	Wind turbine
	13566	NEDANSJÖ	623310.0N 0164752.7E (*)	591	1903	F R	Wind turbine
	13567	NEDANSJÖ	623337.5N 0165045.4E (*)	591	1768	F R	Wind turbine
	13568	NEDANSJÖ	623358.6N 0165056.3E (*)	591	1752	FLG W	Wind turbine
	13569	NEDANSJÖ	623324.3N 0165118.9E (*)	591	1837	F R	Wind turbine
	13570	NEDANSJÖ	623308.4N 0165139.6E (*)	591	1808	F R	Wind turbine
	13571	NEDANSJÖ	623252.0N 0165158.0E (*)	591	1716	FLG W	Wind turbine
	13572	NEDANSJÖ	623228.6N 0165302.3E (*)	591	1690	F R	Wind turbine
	13573	NEDANSJÖ	623234.1N 0165346.4E (*)	591	1703	F R	Wind turbine
	13574	NEDANSJÖ	623223.6N 0165420.8E (*)	591	1699	FLG W	Wind turbine
	13575	NEDANSJÖ	623204.0N 0165231.6E (*)	591	1762	FLG W	Wind turbine
	13576	NEDANSJÖ	623150.8N 0165302.7E (*)	591	1706	F R	Wind turbine
	13577	NEDANSJÖ	623131.3N 0165319.5E (*)	591	1683	FLG W	Wind turbine
	15606	KLEVBERGET	622725.0N 0160643.7E	656	1873	FLG W	Wind turbine
	15607	KLEVBERGET	622657.2N 0160654.2E	656	2113	F R	Wind turbine
	15608	KLEVBERGET	622610.4N 0160621.5E	656	2024	FLG W	Wind turbine
	15609	KLEVBERGET	622547.2N 0160626.2E	656	2008	F R	Wind turbine
	15610	KLEVBERGET	622622.6N 0160746.5E	656	2110	F R	Wind turbine
	15611	KLEVBERGET	622604.4N 0160732.7E	656	2083	F R	Wind turbine
	15612	KLEVBERGET	622649.1N 0160728.2E	656	2110	F R	Wind turbine
	15613	KLEVBERGET	622707.9N 0160754.6E	656	2192	F R	Wind turbine
	15614	KLEVBERGET	622647.0N 0160826.0E	656	2028	FLG W	Wind turbine
	15615	KLEVBERGET	622707.6N 0160848.9E	656	2083	F R	Wind turbine
	15616	KLEVBERGET	622656.0N 0160921.2E	656	2001	FLG W	Wind turbine
	15617	KLEVBERGET	622605.5N 0160934.1E	656	1978	FLG W	Wind turbine
	15618	KLEVBERGET	622623.0N 0161017.1E	656	1883	FLG W	Wind turbine
	15619	KLEVBERGET	622544.2N 0160953.4E	656	2011	FLG W	Wind turbine
	15620	KLEVBERGET	622556.2N 0160829.1E	656	2080	F R	Wind turbine
	15621	KLEVBERGET	622530.9N 0160808.3E	656	2070	FLG W	Wind turbine
	15622	KLEVBERGET	622511.7N 0160756.0E	656	2126	FLG W	Wind turbine
	15623	KLEVBERGET	622505.8N 0160644.1E	656	1991	F R	Wind turbine
	15624	KLEVBERGET	622448.5N 0160656.7E	656	2031	FLG W	Wind turbine
	15625	KLEVBERGET	622450.6N 0160750.3E	656	2057	FLG W	Wind turbine

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Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	15626	KLEVBERGET	622406.9N 0160743.6E	656	2005	FLG W	Wind turbine
	15627	KLEVBERGET	622339.0N 0160802.4E	656	2008	FLG W	Wind turbine
	15628	KLEVBERGET	622333.1N 0160703.1E	656	2034	F R	Wind turbine
	15629	KLEVBERGET	622311.6N 0160701.5E	656	1978	FLG W	Wind turbine
	15711	TIMRÅ	624336.8N 0165943.8E	656	1795	F R	Wind turbine
	15712	TIMRÅ	624349.3N 0165837.9E	656	1923	FLG W	Wind turbine
	15713	TIMRÅ	624319.7N 0165930.9E	656	1972	F R	Wind turbine
	15714	TIMRÅ	624322.0N 0165823.5E	656	1988	FLG W	Wind turbine
	15716	TIMRÅ	624256.7N 0165928.3E	656	1988	FLG W	Wind turbine
	15730	TIMRÅ	624600.0N 0165938.2E	656	1903	FLG W	Wind turbine
	15731	TIMRÅ	624621.8N 0165854.4E	656	1900	F R	Wind turbine
	15732	TIMRÅ	624635.8N 0165809.6E	656	1972	FLG W	Wind turbine
	15733	TIMRÅ	624623.3N 0165941.5E	682	1903	F R	Wind turbine
	15735	TIMRÅ	624659.0N 0165958.2E	682	1909	F R	Wind turbine
	15736	TIMRÅ	624716.5N 0165912.9E	656	1883	FLG W	Wind turbine
	15737	TIMRÅ	624833.6N 0165958.4E	656	1896	FLG W	Wind turbine
	15746	TIMRÅ	624936.2N 0165944.8E	682	1870	FLG W	Wind turbine
	15747	TIMRÅ	624956.0N 0165939.2E	682	1985	F R	Wind turbine
	15748	TIMRÅ	625013.3N 0165940.4E	682	2008	F R	Wind turbine
62N 17E	460	SUNDSVALL/S STADSBERGET	622203.1N 0171903.6E	709	1480	F R/FLG W	Mast
	461	HÄRNÖSAND/HÄRNÖN	623631.9N 0175742.2E	354	886	F R	Mast
	462	KRAMFORS/LUGNVIK	625629.6N 0175656.8E	463	1376	F R	Mast
	468	MATFORS	621725.3N 0170204.4E	338	782	F R	Mast
	661	SUNDSVALL/KORSTA	622412.9N 0172326.3E	328	377	F R	Chimney
	1340	TIMRÅ/SODAHUSSKORSTEN	622827.3N 0171945.3E (*)	377	404	-	Chimney
	1607	TIMRÅ/MEDSBRÄNNERIET	622825.5N 0171946.5E	328	346	F R	Chimney
	3351	VEDA	624737.3N 0175553.4E	620	620	F R/FLG W	Tower
	3352	VEDA	624808.6N 0175643.9E	620	620	F R/FLG W	Tower
	5095	SUNDSVALL/TIMRÅ	622828.4N 0171951.4E (*)	328	354	-	Chimney
	5096	SUNDSVALL/TIMRÅ	622827.7N 0171944.5E (*)	377	404	F R	Chimney
	9433	ÅSTÖN	622518.6N 0174238.6E (*)	328	427	F R	Mast
	9699	UTANSJÖ	624500.4N 0175225.3E (*)	410	1158	FLG R	Wind turbine
	9700	UTANSJÖ	624451.8N 0175246.8E (*)	410	1214	FLG R	Wind turbine
	9701	UTANSJÖ	624443.4N 0175306.1E (*)	410	1188	FLG R	Wind turbine
	9702	UTANSJÖ	624503.6N 0175336.5E (*)	410	1066	FLG R	Wind turbine
	9703	UTANSJÖ	624448.0N 0175208.5E (*)	410	1106	FLG R	Wind turbine
	10249	STORMON	624619.9N 0174527.9E (*)	335	1322	F R	Mast
	10606	VITBERGET	625859.2N 0172611.1E (*)	328	1745	F R	Mast
	10650	HÄRNÖSAND	623624.3N 0175841.1E (*)	492	932	FLG R	Wind turbine
	10651	HÄRNÖSAND	623618.8N 0175748.3E (*)	427	892	FLG R	Wind turbine
	10874	MÖRKÅSEN	620500.3N 0170206.5E (*)	492	1506	FLG R	Wind turbine
	10875	MÖRKÅSEN	620507.9N 0170233.4E (*)	492	1562	FLG R	Wind turbine
	10876	MÖRKÅSEN	620517.8N 0170258.6E (*)	492	1594	FLG R	Wind turbine
	11186	MJÖVATTNET	625621.8N 0173220.6E (*)	394	1588	F R	Mast
	11702	BJÖRNLANDSHÖJDEN	625156.0N 0172836.7E (*)	394	1814	F R	Mast
	11857	STORLIDBERGET	625739.3N 0171242.0E (*)	394	1673	F R	Mast
	12445	SLÄTTMON	624507.4N 0170433.5E (*)	446	1660	F R	Mast
	12594	BJÄRTRÅ	625925.1N 0175559.8E (*)	492	1339	FLG R	Wind turbine
	12595	BJÄRTRÅ	625912.1N 0175547.4E (*)	492	1414	FLG R	Wind turbine
	12596	BJÄRTRÅ	625901.5N 0175536.6E (*)	492	1391	FLG R	Wind turbine
	12597	BJÄRTRÅ	625850.0N 0175535.8E (*)	492	1440	FLG R	Wind turbine
	12598	BJÄRTRÅ	625844.0N 0175615.6E (*)	492	1467	FLG R	Wind turbine
	12599	BJÄRTRÅ	625854.4N 0175611.4E (*)	492	1430	FLG R	Wind turbine
	12644	FURUHULT	624611.2N 0174642.9E (*)	492	1401	FLG R	Wind turbine
	12645	FURUHULT	624614.2N 0174538.8E (*)	492	1476	FLG R	Wind turbine
	12646	FURUHULT	624613.2N 0174501.9E (*)	492	1457	FLG R	Wind turbine
	12647	FURUHULT	624629.3N 0174432.9E (*)	492	1434	FLG R	Wind turbine
	12648	FURUHULT	624614.4N 0174414.8E (*)	492	1421	FLG R	Wind turbine
	13883	HÄRNÖSAND	623521.9N 0175009.3E (*)	591	1214	FLG W	Wind turbine
	13884	HÄRNÖSAND	623525.6N 0175046.6E (*)	591	1145	FLG W	Wind turbine
	14148	VIKSJÖ/LUTMYRAN	625139.0N 0172812.0E	410	1699	F R	Mast
	14150	LAXSJÖN	625303.0N 0171100.0E	476	1627	F R	Mast

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Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	14152	LAXSJÖN	625328.0N 0171138.0E	476	1637	F R	Mast
	14241	VIKSJÖ/EKSJÖN	624615.0N 0171736.0E	476	1578	F R	Mast
	14331	VIKSJÖ/EKSJÖN	624605.1N 0171748.7E	722	1804	FLG W	Wind turbine
	14332	VIKSJÖ/EKSJÖN	624615.8N 0171826.3E	722	1824	F R	Wind turbine
	14333	VIKSJÖ/EKSJÖN	624628.3N 0171901.2E	722	1903	F R	Wind turbine
	14334	VIKSJÖ/EKSJÖN	624636.1N 0171956.6E	722	1821	FLG W	Wind turbine
	14335	VIKSJÖ/EKSJÖN	624640.5N 0171752.0E	722	1952	FLG W	Wind turbine
	14336	VIKSJÖ/EKSJÖN	624650.2N 0171845.0E	722	1965	F R	Wind turbine
	14337	VIKSJÖ/EKSJÖN	624657.8N 0171934.2E	722	1919	F R	Wind turbine
	14338	VIKSJÖ/EKSJÖN	624700.6N 0172032.4E	722	1841	F R	Wind turbine
	14339	VIKSJÖ/EKSJÖN	624711.8N 0171841.6E	722	1864	F R	Wind turbine
	14340	VIKSJÖ/EKSJÖN	624721.1N 0172049.4E	722	1906	FLG W	Wind turbine
	14341	VIKSJÖ/EKSJÖN	624725.2N 0171954.5E	722	1995	F R	Wind turbine
	14342	VIKSJÖ/EKSJÖN	624730.6N 0171900.4E	722	1752	F R	Wind turbine
	14343	LAXSJÖN	624826.1N 0171609.5E	722	1909	FLG W	Wind turbine
	14344	LAXSJÖN	624839.6N 0171657.3E	722	1870	F R	Wind turbine
	14345	LAXSJÖN	624847.2N 0171603.7E	722	2001	F R	Wind turbine
	14346	LAXSJÖN	624854.0N 0171726.1E	722	1860	F R	Wind turbine
	14347	LAXSJÖN	624901.1N 0171514.3E	722	2001	F R	Wind turbine
	14348	LAXSJÖN	624902.2N 0171623.0E	656	1969	F R	Wind turbine
	14349	LAXSJÖN	624901.0N 0171824.2E	722	1972	FLG W	Wind turbine
	14350	LAXSJÖN	624909.5N 0171305.5E	722	2001	FLG W	Wind turbine
	14351	LAXSJÖN	624916.8N 0171135.1E	722	1791	FLG W	Wind turbine
	14352	LAXSJÖN	624912.4N 0171701.1E	722	2005	F R	Wind turbine
	14353	LAXSJÖN	624924.0N 0171211.8E	722	2005	F R	Wind turbine
	14354	LAXSJÖN	624923.7N 0171334.8E	722	2001	F R	Wind turbine
	14355	LAXSJÖN	624922.4N 0171512.9E	656	1995	F R	Wind turbine
	14356	LAXSJÖN	624923.4N 0171608.4E	656	2001	F R	Wind turbine
	14357	LAXSJÖN	624924.4N 0171757.1E	656	1995	F R	Wind turbine
	14358	LAXSJÖN	624928.4N 0171845.9E	722	1906	FLG W	Wind turbine
	14359	LAXSJÖN	624935.5N 0171248.2E	610	1988	F R	Wind turbine
	14360	LAXSJÖN	624943.5N 0171137.5E	722	2001	F R	Wind turbine
	14361	LAXSJÖN	624943.4N 0171339.4E	722	2005	F R	Wind turbine
	14362	LAXSJÖN	624942.8N 0171618.4E	656	2001	F R	Wind turbine
	14363	LAXSJÖN	624949.6N 0171425.8E	722	1988	F R	Wind turbine
	14364	LAXSJÖN	624954.2N 0171242.8E	610	1991	F R	Wind turbine
	14365	LAXSJÖN	624950.9N 0171737.6E	656	2005	F R	Wind turbine
	14366	LAXSJÖN	625005.1N 0171154.0E	722	2001	FLG W	Wind turbine
	14367	LAXSJÖN	625004.4N 0171337.0E	722	2001	F R	Wind turbine
	14368	LAXSJÖN	625004.1N 0171556.3E	656	2005	F R	Wind turbine
	14369	LAXSJÖN	625008.5N 0171640.8E	656	1988	F R	Wind turbine
	14370	LAXSJÖN	625022.4N 0171352.5E	722	1998	F R	Wind turbine
	14371	LAXSJÖN	625024.2N 0171259.8E	610	1926	F R	Wind turbine
	14372	LAXSJÖN	625023.1N 0171450.4E	722	1959	FLG W	Wind turbine
	14373	LAXSJÖN	625026.7N 0171205.0E	656	2001	F R	Wind turbine
	14374	LAXSJÖN	625045.6N 0171313.3E	656	2005	F R	Wind turbine
	14375	LAXSJÖN	625047.4N 0171214.2E	722	2001	F R	Wind turbine
	14376	LAXSJÖN	625100.2N 0171341.7E	656	2001	F R	Wind turbine
	14377	LAXSJÖN	625058.4N 0171546.3E	656	2001	F R	Wind turbine
	14378	LAXSJÖN	625108.6N 0171211.2E	656	2001	F R	Wind turbine
	14379	LAXSJÖN	625107.0N 0171641.5E	656	1998	FLG W	Wind turbine
	14380	LAXSJÖN	625114.9N 0171300.3E	610	2008	F R	Wind turbine
	14381	LAXSJÖN	625120.4N 0171344.3E	656	1998	F R	Wind turbine
	14382	LAXSJÖN	625122.3N 0171542.1E	656	2001	F R	Wind turbine
	14383	LAXSJÖN	625130.6N 0171149.9E	656	2008	F R	Wind turbine
	14384	LAXSJÖN	625132.2N 0171232.3E	610	1972	F R	Wind turbine
	14385	LAXSJÖN	625131.6N 0171622.4E	656	2005	F R	Wind turbine
	14386	LAXSJÖN	625138.6N 0171356.1E	722	1998	F R	Wind turbine
	14387	LAXSJÖN	625144.4N 0171300.7E	656	2001	F R	Wind turbine
	14388	LAXSJÖN	625146.7N 0171520.7E	722	1995	F R	Wind turbine
	14389	LAXSJÖN	625149.8N 0171206.4E	656	1998	F R	Wind turbine
	14390	LAXSJÖN	625152.1N 0171113.9E	722	2005	FLG W	Wind turbine

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Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	14391	LAXSJÖN	625147.8N 0171645.1E	722	1841	FLG W	Wind turbine
	14392	LAXSJÖN	625204.1N 0171350.7E	722	1919	F R	Wind turbine
	14393	LAXSJÖN	625211.7N 0171237.0E	722	2001	F R	Wind turbine
	14394	LAXSJÖN	625220.1N 0171123.6E	722	1952	F R	Wind turbine
	14395	LAXSJÖN	625223.0N 0171314.9E	656	1969	F R	Wind turbine
	14396	LAXSJÖN	625223.6N 0171409.5E	722	1939	FLG W	Wind turbine
	14397	LAXSJÖN	625234.3N 0171149.9E	722	1886	F R	Wind turbine
	14398	LAXSJÖN	625240.5N 0171231.9E	722	2001	F R	Wind turbine
	14399	LAXSJÖN	625242.6N 0171320.8E	722	1982	F R	Wind turbine
	14400	LAXSJÖN	625253.1N 0171112.5E	722	1893	FLG W	Wind turbine
	14401	LAXSJÖN	625259.7N 0171158.5E	722	1939	F R	Wind turbine
	14402	LAXSJÖN	625311.2N 0171309.6E	722	1864	FLG W	Wind turbine
	14403	LAXSJÖN	625320.6N 0171157.4E	722	1873	FLG W	Wind turbine
	14689	BJÖRNLANDHÖJDEN	624858.8N 0173017.1E	720	1763	F R	Wind turbine
	14690	BJÖRNLANDHÖJDEN	624920.5N 0173040.7E	720	1767	F R	Wind turbine
	14710	BJÖRNLANDHÖJDEN	624928.2N 0172936.1E	720	1996	F R	Wind turbine
	14711	BJÖRNLANDHÖJDEN	624940.4N 0173009.7E	720	1872	F R	Wind turbine
	14712	BJÖRNLANDHÖJDEN	624958.8N 0173206.3E	720	1727	F R	Wind turbine
	14713	BJÖRNLANDHÖJDEN	625002.2N 0172907.2E	720	1993	F R	Wind turbine
	14714	BJÖRNLANDHÖJDEN	624958.2N 0173336.6E	720	1770	F R	Wind turbine
	14715	BJÖRNLANDHÖJDEN	625007.9N 0172948.0E	720	1911	F R	Wind turbine
	14716	BJÖRNLANDHÖJDEN	625011.7N 0172812.1E	720	1865	F R	Wind turbine
	14717	BJÖRNLANDHÖJDEN	625009.0N 0173243.2E	720	1901	F R	Wind turbine
	14718	BJÖRNLANDHÖJDEN	625011.9N 0173548.4E	720	1675	F R	Wind turbine
	14719	BJÖRNLANDHÖJDEN	625011.1N 0173113.9E	720	1882	F R	Wind turbine
	14720	BJÖRNLANDHÖJDEN	625012.4N 0173032.9E	655	1845	F R	Wind turbine
	14721	BJÖRNLANDHÖJDEN	625021.2N 0172858.0E	720	1996	F R	Wind turbine
	14722	BJÖRNLANDHÖJDEN	625017.6N 0173405.2E	720	1790	F R	Wind turbine
	14723	BJÖRNLANDHÖJDEN	625013.1N 0173458.3E	720	1695	F R	Wind turbine
	14724	BJÖRNLANDHÖJDEN	625028.1N 0172953.4E	720	1983	F R	Wind turbine
	14725	BJÖRNLANDHÖJDEN	625034.0N 0172740.7E	720	1868	F R	Wind turbine
	14726	BJÖRNLANDHÖJDEN	625033.3N 0173034.8E	720	2000	F R	Wind turbine
	14727	BJÖRNLANDHÖJDEN	625031.3N 0173242.5E	720	1964	F R	Wind turbine
	14728	BJÖRNLANDHÖJDEN	625038.8N 0172910.2E	655	1990	F R	Wind turbine
	14729	BJÖRNLANDHÖJDEN	625037.5N 0173144.1E	720	1882	F R	Wind turbine
	14730	BJÖRNLANDHÖJDEN	625037.2N 0173339.2E	720	1806	F R	Wind turbine
	14731	BJÖRNLANDHÖJDEN	625036.2N 0173438.4E	720	1678	F R	Wind turbine
	14732	BJÖRNLANDHÖJDEN	625042.8N 0172817.6E	720	1980	F R	Wind turbine
	14733	BJÖRNLANDHÖJDEN	625044.3N 0172943.0E	655	1990	F R	Wind turbine
	14734	BJÖRNLANDHÖJDEN	625050.6N 0173250.0E	720	1967	F R	Wind turbine
	14735	BJÖRNLANDHÖJDEN	625055.2N 0173026.8E	655	1914	F R	Wind turbine
	14736	BJÖRNLANDHÖJDEN	625055.2N 0173331.4E	720	1740	F R	Wind turbine
	14737	BJÖRNLANDHÖJDEN	625058.0N 0173133.5E	720	1931	F R	Wind turbine
	14738	BJÖRNLANDHÖJDEN	625103.1N 0172809.0E	720	1993	F R	Wind turbine
	14739	BJÖRNLANDHÖJDEN	625113.1N 0172903.4E	609	2003	F R	Wind turbine
	14740	BJÖRNLANDHÖJDEN	625110.4N 0173240.2E	720	1780	F R	Wind turbine
	14741	BJÖRNLANDHÖJDEN	625115.4N 0172942.4E	655	1990	F R	Wind turbine
	14742	BJÖRNLANDHÖJDEN	625119.3N 0173032.6E	720	1914	F R	Wind turbine
	14743	BJÖRNLANDHÖJDEN	625119.3N 0173135.2E	720	1895	F R	Wind turbine
	14744	BJÖRNLANDHÖJDEN	625127.7N 0172813.8E	655	1957	F R	Wind turbine
	14745	BJÖRNLANDHÖJDEN	625135.0N 0172941.6E	655	1996	F R	Wind turbine
	14746	BJÖRNLANDHÖJDEN	625138.9N 0173218.0E	720	1819	F R	Wind turbine
	14747	BJÖRNLANDHÖJDEN	625144.1N 0173045.9E	720	1996	F R	Wind turbine
	14748	BJÖRNLANDHÖJDEN	625151.2N 0173126.2E	720	1921	F R	Wind turbine
	15715	TIMRÅ	624308.7N 0170028.4E	656	1985	FLG W	Wind turbine
	15717	TIMRÅ	624457.4N 0170130.2E	656	1713	FLG W	Wind turbine
	15718	TIMRÅ	624447.6N 0170245.7E	656	1814	F R	Wind turbine
	15719	TIMRÅ	624504.6N 0170248.3E	656	1923	F R	Wind turbine
	15720	TIMRÅ	624419.8N 0170417.8E	656	1785	FLG W	Wind turbine
	15721	TIMRÅ	624340.7N 0170516.7E	656	1893	FLG W	Wind turbine
	15722	TIMRÅ	624456.0N 0170352.5E	656	1870	F R	Wind turbine
	15723	TIMRÅ	624507.4N 0170622.5E	682	1906	FLG W	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	15724	TIMRÅ	624500.2N 0170527.9E	682	1903	F R	Wind turbine
	15725	TIMRÅ	624444.5N 0170601.6E	682	1896	FLG W	Wind turbine
	15726	TIMRÅ	624531.2N 0170502.6E	682	1877	FLG W	Wind turbine
	15727	TIMRÅ	624554.6N 0170345.5E	682	1880	FLG W	Wind turbine
	15728	TIMRÅ	624547.2N 0170308.4E	682	1955	F R	Wind turbine
	15729	TIMRÅ	624529.5N 0170344.7E	682	1955	F R	Wind turbine
	15734	TIMRÅ	624636.4N 0170006.6E	682	1860	F R	Wind turbine
	15738	TIMRÅ	624805.6N 0170018.5E	656	1896	F R	Wind turbine
	15739	TIMRÅ	624740.0N 0170024.7E	682	1857	F R	Wind turbine
	15740	TIMRÅ	624713.2N 0170104.0E	682	1827	F R	Wind turbine
	15741	TIMRÅ	624650.7N 0170135.7E	682	1854	F R	Wind turbine
	15742	TIMRÅ	624803.7N 0170239.0E	656	1909	FLG W	Wind turbine
	15743	TIMRÅ	624739.6N 0170344.4E	656	1969	FLG W	Wind turbine
	15744	TIMRÅ	625004.0N 0170138.2E	656	1985	FLG W	Wind turbine
	15745	TIMRÅ	625020.0N 0170154.8E	656	1919	FLG W	Wind turbine
	15749	TIMRÅ	625029.0N 0170000.8E	682	1972	FLG W	Wind turbine
	15750	TIMRÅ	624953.5N 0170036.2E	682	1988	F R	Wind turbine
	15751	TIMRÅ	625012.2N 0170045.6E	682	2103	F R	Wind turbine
	15752	TIMRÅ	625029.5N 0170056.4E	682	2005	F R	Wind turbine
62N 18E	469	MJÄLLOM	625908.5N 0182334.3E	348	1249	F R	Mast
	901	RINGKALLEN	625300.6N 0181907.6E	344	1227	F R	Mast
	10572	HEMSÖN	624351.6N 0180251.7E (*)	328	1033	F R	Mast
63N 13E	11174	STORBACKEN	634505.8N 0133511.8E	410	2713	FLG R	Wind turbine
	11175	STORBACKEN	634510.3N 0133529.6E	410	2680	FLG R	Wind turbine
	11176	STORBACKEN	634521.7N 0133548.0E	410	2602	FLG R	Wind turbine
	11177	STORBACKEN	634520.5N 0133507.3E	410	2677	FLG R	Wind turbine
	11178	STORBACKEN	634534.3N 0133450.4E	410	2621	FLG R	Wind turbine
	11179	STORBACKEN	634545.6N 0133425.8E	410	2697	FLG R	Wind turbine
	11180	STORBACKEN	634552.0N 0133446.1E	410	2795	FLG R	Wind turbine
	11181	STORBACKEN	634553.1N 0133510.9E	410	2900	FLG R	Wind turbine
	11182	STORBACKEN	634540.6N 0133510.8E	410	2782	FLG R	Wind turbine
	11183	STORBACKEN	634544.2N 0133540.7E	410	2730	FLG R	Wind turbine
	11184	STORBACKEN	634551.8N 0133558.5E	410	2746	FLG R	Wind turbine
	11185	STORBACKEN	634559.1N 0133608.6E	410	2726	FLG R	Wind turbine
63N 14E	480	ÖSTERSUND/BRATTÅSEN	630642.5N 0143600.0E	1083	2577	F R/FLG W	Mast
	6982	RÅSHÖN	632913.9N 0140642.9E (*)	394	2369	F R	Wind turbine
	6983	RÅSHÖN	632920.2N 0140653.2E (*)	394	2480	F R	Wind turbine
	6984	RÅSHÖN	632926.0N 0140704.5E (*)	394	2441	F R	Wind turbine
	6985	RÅSHÖN	632904.3N 0140728.6E (*)	394	2425	F R	Wind turbine
	6986	RÅSHÖN	632911.1N 0140738.6E (*)	394	2464	F R	Wind turbine
	6987	RÅSHÖN	632921.5N 0140747.7E (*)	394	2418	F R	Wind turbine
	6988	RÅSHÖN	632928.4N 0140758.5E (*)	394	2395	F R	Wind turbine
	9590	SVARTBODHÖN	632939.5N 0140834.4E (*)	410	2444	F R	Wind turbine
	9633	MUNKFLOHÖGEN	633258.5N 0145717.8E (*)	410	2090	F R	Mast
	10512	RAFTSJÖHÖJDEN	633534.8N 0145954.8E (*)	492	2034	FLG R	Wind turbine
	10513	RAFTSJÖHÖJDEN	633548.9N 0145952.6E (*)	492	2047	FLG R	Wind turbine
	10514	RAFTSJÖHÖJDEN	633526.4N 0145931.9E (*)	492	2018	FLG R	Wind turbine
	10515	RAFTSJÖHÖJDEN	633541.0N 0145930.0E (*)	492	2080	FLG R	Wind turbine
	12570	FÖLLINGE	633808.6N 0143014.3E (*)	394	1893	F R	Mast
	13301	MUNKFLOHÖGEN	633253.1N 0145759.1E (*)	591	2251	FLG W	Wind turbine
	13302	MUNKFLOHÖGEN	633251.0N 0145721.9E (*)	591	2290	F R	Wind turbine
	13303	MUNKFLOHÖGEN	633242.7N 0145655.3E (*)	591	2283	F R	Wind turbine
	13304	MUNKFLOHÖGEN	633229.6N 0145629.4E (*)	591	2247	F R	Wind turbine
	13305	MUNKFLOHÖGEN	633244.7N 0145620.9E (*)	591	2221	FLG W	Wind turbine
	13306	MUNKFLOHÖGEN	633223.6N 0145558.5E (*)	591	2228	FLG W	Wind turbine
	13307	MUNKFLOHÖGEN	633213.9N 0145636.0E (*)	591	2267	F R	Wind turbine
	13308	MUNKFLOHÖGEN	633219.3N 0145713.1E (*)	591	2320	F R	Wind turbine
	13309	MUNKFLOHÖGEN	633204.7N 0145746.1E (*)	591	2359	F R	Wind turbine
	13310	MUNKFLOHÖGEN	633152.6N 0145820.9E (*)	591	2349	F R	Wind turbine
	13311	MUNKFLOHÖGEN	633138.4N 0145810.7E (*)	591	2359	FLG W	Wind turbine
	13312	MUNKFLOHÖGEN	633153.7N 0145903.7E (*)	591	2283	F R	Wind turbine
	13313	MUNKFLOHÖGEN	633210.2N 0145845.4E (*)	591	2306	F R	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13314	MUNKFLOHÖGEN	633225.8N 0145912.2E (*)	591	2270	F R	Wind turbine
	13315	MUNKFLOHÖGEN	633208.6N 0145942.6E (*)	591	2290	FLG W	Wind turbine
	13317	MUNKFLOHÖGEN	633218.6N 0145801.4E (*)	591	2326	F R	Wind turbine
	13318	MUNKFLOHÖGEN	633236.7N 0145744.6E (*)	591	2300	F R	Wind turbine
	13319	MUNKFLOHÖGEN	633235.4N 0145832.8E (*)	591	2287	F R	Wind turbine
	13320	MUNKFLOHÖGEN	633249.2N 0145853.9E (*)	591	2241	F R	Wind turbine
	13321	MUNKFLOHÖGEN	633257.8N 0145930.7E (*)	591	2182	FLG W	Wind turbine
	13322	MUNKFLOHÖGEN	633243.5N 0145949.2E (*)	591	2224	F R	Wind turbine
	14822	RAFTSJÖHÖJDEN	633739.9N 0145959.5E	722	2283	FLG W	Wind turbine
	14823	RAFTSJÖHÖJDEN	633724.4N 0145939.2E	722	2313	FLG W	Wind turbine
63N 15E	484	STRÖMSUND	635151.6N 0153634.5E	653	1966	F R/FLG W	Mast
	737	STUGUN	631030.9N 0153511.1E	338	1577	F R	Mast
	8343	RAFTSHÖJDEN	633624.2N 0150203.0E (*)	328	2106	F R	Wind turbine
	9552	BRÄNNKULLEN	632915.3N 0155833.1E (*)	328	2001	F R	Mast
	9596	STORHÖGEN	632255.5N 0150818.7E (*)	328	1969	F R	Mast
	10296	RAFTSJÖHÖJDEN	633638.1N 0150215.3E (*)	456	2146	FLG R	Wind turbine
	10297	RAFTSJÖHÖJDEN	633631.5N 0150244.6E (*)	456	2198	FLG R	Wind turbine
	10298	RAFTSJÖHÖJDEN	633651.9N 0150229.7E (*)	456	2106	FLG R	Wind turbine
	10299	RAFTSJÖHÖJDEN	633650.4N 0150305.7E (*)	456	2113	FLG R	Wind turbine
	10300	RAFTSJÖHÖJDEN	633644.9N 0150405.7E (*)	456	2113	FLG R	Wind turbine
	10301	RAFTSJÖHÖJDEN	633646.8N 0150438.9E (*)	456	2113	FLG R	Wind turbine
	10302	NYBODARNA	632749.8N 0150858.7E (*)	328	1870	F R	Mast
	10303	FYRINGSKÄLEN	633151.7N 0150611.5E (*)	328	2057	F R	Mast
	10993	STAMÅSEN	634042.1N 0154821.1E (*)	564	1837	FLG W	Wind turbine
	10994	STAMÅSEN	634037.8N 0154749.4E (*)	564	1818	F R	Wind turbine
	10995	STAMÅSEN	634025.2N 0154745.4E (*)	564	1834	F R	Wind turbine
	10996	STAMÅSEN	634017.5N 0154717.4E (*)	564	1916	F R	Wind turbine
	10997	STAMÅSEN	634013.0N 0154644.9E (*)	564	1824	FLG W	Wind turbine
	10998	STAMÅSEN	633952.9N 0154755.6E (*)	564	1959	F R	Wind turbine
	10999	STAMÅSEN	633940.3N 0154806.1E (*)	564	1998	F R	Wind turbine
	11000	STAMÅSEN	633930.1N 0154744.0E (*)	564	1952	FLG W	Wind turbine
	11001	STAMÅSEN	634003.8N 0154905.6E (*)	564	1886	FLG W	Wind turbine
	11002	STAMÅSEN	633946.9N 0154838.1E (*)	564	1949	F R	Wind turbine
	11003	STAMÅSEN	633931.3N 0154843.2E (*)	564	2014	F R	Wind turbine
	11004	STAMÅSEN	633920.0N 0154834.5E (*)	564	1972	F R	Wind turbine
	11005	STAMÅSEN	633944.2N 0154946.1E (*)	564	1906	F R	Wind turbine
	11006	STAMÅSEN	633921.8N 0154912.5E (*)	564	2018	F R	Wind turbine
	11007	STAMÅSEN	633907.8N 0154910.4E (*)	564	1988	F R	Wind turbine
	11008	STAMÅSEN	633854.8N 0154859.8E (*)	564	1909	F R	Wind turbine
	11009	STAMÅSEN	633847.1N 0154840.0E (*)	564	1959	FLG W	Wind turbine
	11010	STAMÅSEN	633942.3N 0155030.4E (*)	564	1909	F R	Wind turbine
	11011	STAMÅSEN	633930.7N 0155011.1E (*)	564	1939	F R	Wind turbine
	11012	STAMÅSEN	633917.3N 0155045.3E (*)	564	1949	F R	Wind turbine
	11013	STAMÅSEN	633929.3N 0155134.4E (*)	564	1883	FLG W	Wind turbine
	11014	STAMÅSEN	633917.1N 0155127.6E (*)	564	1913	F R	Wind turbine
	11015	STAMÅSEN	633900.3N 0155109.9E (*)	564	1978	F R	Wind turbine
	11016	STAMÅSEN	633848.4N 0155104.5E (*)	564	1982	F R	Wind turbine
	11017	STAMÅSEN	633835.0N 0155119.3E (*)	564	1913	F R/FLG W	Wind turbine
	11569	BODMYREN	633125.4N 0155547.9E (*)	367	1739	F R	Mast
	11595	FULLSJÖN	633015.2N 0155620.4E (*)	367	1854	F R	Mast
	11717	STAMÅSEN	633837.4N 0155159.1E (*)	568	1939	F R/FLG W	Wind turbine
	11749	ÖGONFÄGNADEN	633146.8N 0155808.8E (*)	564	1991	FLG W	Wind turbine
	11750	ÖGONFÄGNADEN	633134.2N 0155829.2E (*)	564	2054	F R	Wind turbine
	11751	ÖGONFÄGNADEN	633117.3N 0155907.3E (*)	564	2080	F R	Wind turbine
	11752	ÖGONFÄGNADEN	633058.2N 0155919.8E (*)	564	2110	F R	Wind turbine
	11753	ÖGONFÄGNADEN	633050.2N 0155948.5E (*)	564	2090	FLG W	Wind turbine
	11754	ÖGONFÄGNADEN	633119.3N 0155810.1E (*)	564	2041	F R	Wind turbine
	11755	ÖGONFÄGNADEN	633047.8N 0155900.6E (*)	564	2146	F R	Wind turbine
	11756	ÖGONFÄGNADEN	633037.9N 0155917.8E (*)	564	2119	F R	Wind turbine
	11757	ÖGONFÄGNADEN	633151.9N 0155625.0E (*)	564	1955	FLG W	Wind turbine
	11758	ÖGONFÄGNADEN	633123.8N 0155708.2E (*)	564	2064	F R	Wind turbine
	11759	ÖGONFÄGNADEN	633057.0N 0155732.7E (*)	564	2201	F R	Wind turbine

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	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	630003.4N 0155429.0E (*)	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
	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
	13726	HAMMERDAL	632746.1N 0150959.2E (*)	591	2116	FLG W	Wind turbine
	13727	HAMMERDAL	632738.4N 0150920.4E (*)	591	2100	FLG W	Wind turbine
	14212	BJÖRKVATTNET	632434.6N 0155931.2E	722	2320	F R	Wind turbine
	14213	BJÖRKVATTNET	632450.8N 0155928.5E	722	2339	FLG W	Wind turbine
	14217	BJÖRKVATTNET	632443.2N 0155901.5E	722	2300	FLG W	Wind turbine
	14222	BJÖRKVATTNET	632505.2N 0155912.0E	722	2316	F R	Wind turbine
	14225	BJÖRKVATTNET	632511.6N 0155956.9E	722	2329	F R	Wind turbine
	14226	BJÖRKVATTNET	632518.4N 0155911.1E	722	2323	F R	Wind turbine
	14227	BJÖRKVATTNET	632528.2N 0155952.3E	722	2369	F R	Wind turbine
	14228	BJÖRKVATTNET	632531.1N 0155906.9E	722	2356	FLG W	Wind turbine
	14232	BJÖRKVATTNET	632547.1N 0155905.1E	722	2411	F R	Wind turbine
	14233	BJÖRKVATTNET	632543.6N 0155948.6E	722	2438	FLG W	Wind turbine
	14234	BJÖRKVATTNET	632557.1N 0155957.2E	722	2425	F R	Wind turbine
	14236	BJÖRKVATTNET	632602.5N 0155837.1E	722	2349	FLG W	Wind turbine
	14237	BJÖRKVATTNET	632559.3N 0155922.2E	722	2408	F R	Wind turbine
	14238	BJÖRKVATTNET	632615.1N 0155850.3E	722	2336	FLG W	Wind turbine
	14691	HAMMERDAL	633138.0N 0150445.5E	367	1972	F R	Mast
	14818	RAFTSJÖHÖJDEN	633834.6N 0150355.3E	722	2162	FLG W	Wind turbine
	14819	RAFTSJÖHÖJDEN	633834.0N 0150313.6E	722	2247	F R	Wind turbine
	14820	RAFTSJÖHÖJDEN	633820.3N 0150235.0E	722	2270	F R	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	14821	RAFTSJÖHÖJDEN	633814.3N 0150152.3E	722	2238	FLG W	Wind turbine
	14824	RAFTSJÖHÖJDEN	633721.7N 0150033.9E	722	2339	F R	Wind turbine
	14825	RAFTSJÖHÖJDEN	633735.3N 0150224.3E	722	2270	F R	Wind turbine
	14826	RAFTSJÖHÖJDEN	633709.4N 0150231.0E	722	2316	F R	Wind turbine
	14827	RAFTSJÖHÖJDEN	633645.8N 0150143.6E	722	2402	FLG W	Wind turbine
	14828	RAFTSJÖHÖJDEN	633626.6N 0150407.7E	722	2352	FLG W	Wind turbine
	15630	HOCKSJÖN	632729.8N 0155843.0E	753	2410	FLG W	Wind turbine
	15631	HOCKSJÖN	632712.9N 0155851.6E	753	2242	F R	Wind turbine
	15813	STORBRÄNNKULLEN	632912.9N 0155840.1E	620	2282	FLG W	Wind turbine
	15814	STORBRÄNNKULLEN	632900.5N 0155833.2E	620	2315	F R	Wind turbine
	15815	STORBRÄNNKULLEN	632851.0N 0155754.8E	620	2373	FLG W	Wind turbine
	15816	STORBRÄNNKULLEN	632849.2N 0155831.0E	620	2328	F R	Wind turbine
	15817	STORBRÄNNKULLEN	632838.3N 0155755.6E	620	2235	F R	Wind turbine
	15818	STORBRÄNNKULLEN	632824.5N 0155811.6E	620	2211	F R	Wind turbine
	15819	STORBRÄNNKULLEN	632808.1N 0155808.7E	620	2179	F R	Wind turbine
	15820	STORBRÄNNKULLEN	632753.4N 0155813.1E	620	2161	FLG W	Wind turbine
	15821	STORBRÄNNKULLEN	632747.5N 0155837.2E	620	2189	F R	Wind turbine
	15822	STORBRÄNNKULLEN	632746.7N 0155913.7E	620	2180	FLG W	Wind turbine
63N 16E	486	RAMSELE	633554.2N 0162446.9E	351	1462	F R	Mast
	9878	LILL-VILLFLON	632405.8N 0160049.3E (*)	328	2057	F R	Mast
	10136	KÄRMSJÖHÖJDEN	635224.8N 0164351.6E (*)	328	1814	F R	Mast
	10374	BACKE	634545.1N 0163009.4E (*)	492	1542	FLG R	Wind turbine
	10375	BACKE	634538.4N 0163035.1E (*)	492	1529	FLG R	Wind turbine
	11565	RENSJÖN	632749.6N 0160607.9E (*)	367	1909	F R	Mast
	11596	BJÖRKHÖJDEN	632457.8N 0160713.3E (*)	367	2067	F R	Mast
	11785	RENSJÖN	632820.2N 0160612.1E (*)	564	2034	FLG W	Wind turbine
	11786	RENSJÖN	632813.6N 0160645.7E (*)	564	1995	F R	Wind turbine
	11787	RENSJÖN	632820.4N 0160715.2E (*)	564	2018	FLG W	Wind turbine
	11788	RENSJÖN	632756.9N 0160714.9E (*)	564	2051	F R	Wind turbine
	11789	RENSJÖN	632749.8N 0160748.1E (*)	564	2116	F R	Wind turbine
	11790	RENSJÖN	632746.0N 0160622.1E (*)	564	2103	F R	Wind turbine
	11791	RENSJÖN	632738.5N 0160703.6E (*)	564	2123	F R	Wind turbine
	11792	RENSJÖN	632732.1N 0160628.2E (*)	564	2103	FLG W	Wind turbine
	11793	RENSJÖN	632719.9N 0160649.9E (*)	564	2090	F R	Wind turbine
	11794	RENSJÖN	632707.0N 0160701.7E (*)	564	2057	F R	Wind turbine
	11795	RENSJÖN	632722.0N 0160818.3E (*)	564	2028	FLG W	Wind turbine
	11796	RENSJÖN	632716.3N 0160851.0E (*)	564	2096	F R	Wind turbine
	11797	RENSJÖN	632710.7N 0160923.6E (*)	564	1965	F R	Wind turbine
	11798	RENSJÖN	632654.9N 0160934.2E (*)	564	2034	FLG W	Wind turbine
	11799	RENSJÖN	632705.4N 0160817.7E (*)	564	2073	F R	Wind turbine
	11800	RENSJÖN	632657.2N 0160753.8E (*)	564	2139	F R	Wind turbine
	11801	RENSJÖN	632650.9N 0160826.9E (*)	564	2054	F R	Wind turbine
	11802	RENSJÖN	632634.9N 0160834.1E (*)	564	2070	F R	Wind turbine
	11803	RENSJÖN	632621.3N 0160847.8E (*)	564	2070	F R	Wind turbine
	11804	RENSJÖN	632621.5N 0160659.6E (*)	564	2073	F R	Wind turbine
	11805	RENSJÖN	632606.0N 0160703.0E (*)	564	2139	F R	Wind turbine
	11806	RENSJÖN	632559.0N 0160631.2E (*)	564	2156	FLG W	Wind turbine
	11807	RENSJÖN	632541.6N 0160738.5E (*)	564	2195	F R	Wind turbine
	11808	RENSJÖN	632516.3N 0160824.3E (*)	564	2385	F R	Wind turbine
	11809	RENSJÖN	632522.3N 0160850.7E (*)	564	2215	F R	Wind turbine
	11810	RENSJÖN	632506.3N 0161148.7E (*)	564	2208	FLG W	Wind turbine
	11811	RENSJÖN	632448.7N 0161204.4E (*)	564	2244	F R	Wind turbine
	11812	RENSJÖN	632432.1N 0161216.4E (*)	564	2218	F R	Wind turbine
	11813	RENSJÖN	632420.5N 0161242.0E (*)	564	2126	F R	Wind turbine
	11814	RENSJÖN	632402.5N 0161307.3E (*)	564	2142	F R	Wind turbine
	11815	RENSJÖN	632355.5N 0161341.4E (*)	564	2123	FLG W	Wind turbine
	11816	RENSJÖN	632423.3N 0161153.7E (*)	564	2313	F R	Wind turbine
	11817	RENSJÖN	632511.3N 0160925.1E (*)	564	2280	F R	Wind turbine
	11818	RENSJÖN	632505.1N 0160805.0E (*)	564	2280	F R	Wind turbine
	12317	RENSJÖN	632557.7N 0160733.9E (*)	564	2139	F R	Wind turbine
	12318	RENSJÖN	632548.8N 0160658.5E (*)	564	2139	F R	Wind turbine
	12319	RENSJÖN	632519.1N 0160750.8E (*)	564	2303	F R	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	12320	RENSJÖN	632511.0N 0161043.4E (*)	564	2133	F R	Wind turbine
	12321	RENSJÖN	632457.2N 0161108.2E (*)	564	2267	F R	Wind turbine
	12322	RENSJÖN	632443.3N 0161119.6E (*)	564	2306	F R	Wind turbine
	12323	RENSJÖN	632406.1N 0161151.4E (*)	564	2270	F R	Wind turbine
	12324	RENSJÖN	632350.1N 0161153.9E (*)	564	2247	F R	Wind turbine
	12325	RENSJÖN	632337.8N 0161238.0E (*)	564	2231	F R	Wind turbine
	12326	RENSJÖN	632328.2N 0161306.8E (*)	564	2159	F R	Wind turbine
	12327	RENSJÖN	632304.2N 0161346.8E (*)	564	2073	F R	Wind turbine
	12328	RENSJÖN	632454.9N 0161034.4E (*)	564	2201	F R	Wind turbine
	12329	RENSJÖN	632439.4N 0161049.0E (*)	564	2228	F R	Wind turbine
	12330	RENSJÖN	632425.2N 0161056.1E (*)	564	2260	F R	Wind turbine
	12331	RENSJÖN	632407.8N 0161115.5E (*)	564	2251	F R	Wind turbine
	12332	RENSJÖN	632352.9N 0161113.8E (*)	564	2260	F R	Wind turbine
	12333	RENSJÖN	632337.7N 0161140.5E (*)	564	2379	F R	Wind turbine
	12334	RENSJÖN	632325.7N 0161205.8E (*)	564	2238	F R	Wind turbine
	12335	RENSJÖN	632457.6N 0160933.1E (*)	564	2224	F R	Wind turbine
	12336	RENSJÖN	632425.5N 0161010.8E (*)	564	2293	F R	Wind turbine
	12337	RENSJÖN	632333.6N 0161102.9E (*)	564	2310	F R	Wind turbine
	12338	RENSJÖN	632324.8N 0161133.2E (*)	564	2244	F R	Wind turbine
	12339	RENSJÖN	632307.3N 0161211.0E (*)	564	2211	F R	Wind turbine
	12340	RENSJÖN	632445.5N 0160853.2E (*)	564	2274	F R	Wind turbine
	12341	RENSJÖN	632433.8N 0160922.5E (*)	564	2293	F R	Wind turbine
	12342	RENSJÖN	632419.1N 0160938.5E (*)	564	2382	F R	Wind turbine
	12343	RENSJÖN	632405.9N 0160957.5E (*)	564	2323	F R	Wind turbine
	12344	RENSJÖN	632350.6N 0161028.6E (*)	564	2323	F R	Wind turbine
	12345	RENSJÖN	632335.9N 0161021.8E (*)	564	2346	F R	Wind turbine
	12346	RENSJÖN	632318.8N 0161056.3E (*)	564	2356	F R	Wind turbine
	12347	RENSJÖN	632308.2N 0161136.5E (*)	564	2201	F R	Wind turbine
	12348	RENSJÖN	632250.6N 0161206.1E (*)	564	2175	F R	Wind turbine
	12349	RENSJÖN	632250.3N 0161343.5E (*)	564	2110	F R	Wind turbine
	12350	RENSJÖN	632234.8N 0161358.0E (*)	564	2123	FLG W	Wind turbine
	12351	RENSJÖN	632447.7N 0160817.7E (*)	564	2277	F R	Wind turbine
	12352	RENSJÖN	632417.4N 0160901.2E (*)	564	2385	F R	Wind turbine
	12353	RENSJÖN	632402.7N 0160848.7E (*)	564	2356	F R	Wind turbine
	12354	RENSJÖN	632404.9N 0160923.1E (*)	564	2369	F R	Wind turbine
	12355	RENSJÖN	632351.9N 0160943.4E (*)	564	2297	F R	Wind turbine
	12356	RENSJÖN	632336.7N 0160946.6E (*)	564	2274	F R	Wind turbine
	12357	RENSJÖN	632309.0N 0161023.1E (*)	564	2178	F R	Wind turbine
	12358	RENSJÖN	632249.6N 0161028.2E (*)	564	2172	F R	Wind turbine
	12359	RENSJÖN	632256.7N 0161059.9E (*)	564	2172	F R	Wind turbine
	12360	RENSJÖN	632241.7N 0161141.7E (*)	564	2146	F R	Wind turbine
	12361	RENSJÖN	632234.3N 0161215.1E (*)	564	2142	F R	Wind turbine
	12362	RENSJÖN	632244.9N 0161306.8E (*)	564	2119	F R	Wind turbine
	12363	RENSJÖN	632509.3N 0160723.3E (*)	564	2280	F R	Wind turbine
	12364	RENSJÖN	632453.8N 0160727.3E (*)	564	2274	FLG W	Wind turbine
	12365	RENSJÖN	632423.4N 0160738.3E (*)	564	2320	F R	Wind turbine
	12366	RENSJÖN	632415.2N 0160807.5E (*)	564	2316	F R	Wind turbine
	12367	RENSJÖN	632402.0N 0160754.3E (*)	564	2333	FLG W	Wind turbine
	12368	RENSJÖN	632229.0N 0161020.5E (*)	564	2165	FLG W	Wind turbine
	12369	RENSJÖN	632215.8N 0161040.1E (*)	564	2119	F R	Wind turbine
	12370	RENSJÖN	632218.2N 0161114.1E (*)	564	2133	F R	Wind turbine
	12371	RENSJÖN	632204.1N 0161129.8E (*)	564	2129	F R	Wind turbine
	12372	RENSJÖN	632201.3N 0161203.6E (*)	564	2090	FLG W	Wind turbine
	12898	KRÅNGEDE	630621.6N 0160317.6E (*)	328	1867	F R	Mast
	13298	IMFORS	633244.9N 0163718.9E (*)	427	1594	F R	Mast
	13299	NÄSÅKER	632359.0N 0164644.3E (*)	427	1555	F R	Mast
	13366	RAMSELE	633108.2N 0163454.6E (*)	427	1811	F R	Mast
	14206	BJÖRKVATTNET	632358.1N 0160058.0E	722	2470	FLG W	Wind turbine
	14207	BJÖRKVATTNET	632404.2N 0160132.1E	722	2398	F R	Wind turbine
	14208	BJÖRKVATTNET	632412.6N 0160159.7E	722	2428	F R	Wind turbine
	14209	BJÖRKVATTNET	632426.3N 0160240.0E	722	2349	F R	Wind turbine
	14210	BJÖRKVATTNET	632414.3N 0160232.8E	722	2392	FLG W	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	14211	BJÖRKVATTNET	632423.1N 0160026.8E	722	2349	F R	Wind turbine
	14214	BJÖRKVATTNET	632433.8N 0160043.2E	722	2375	F R	Wind turbine
	14215	BJÖRKVATTNET	632429.9N 0160152.0E	722	2402	FLG W	Wind turbine
	14216	BJÖRKVATTNET	632440.9N 0160206.7E	722	2310	F R	Wind turbine
	14218	BJÖRKVATTNET	632443.9N 0160120.5E	722	2362	F R	Wind turbine
	14219	BJÖRKVATTNET	632520.1N 0160110.9E	722	2369	F R	Wind turbine
	14220	BJÖRKVATTNET	632457.7N 0160006.8E	722	2339	F R	Wind turbine
	14221	BJÖRKVATTNET	632425.3N 0160118.4E	722	2392	F R	Wind turbine
	14223	BJÖRKVATTNET	632506.7N 0160151.4E	722	2270	FLG W	Wind turbine
	14224	BJÖRKVATTNET	632505.0N 0160103.5E	722	2398	FLG W	Wind turbine
	14229	BJÖRKVATTNET	632543.7N 0160113.4E	722	2297	FLG W	Wind turbine
	14230	BJÖRKVATTNET	632546.0N 0160037.8E	722	2343	F R	Wind turbine
	14231	BJÖRKVATTNET	632410.5N 0160017.0E	722	2382	F R	Wind turbine
	14235	BJÖRKVATTNET	632356.2N 0160020.2E	722	2431	FLG W	Wind turbine
	14977	SOLLEFTEÅ	630640.5N 0164456.3E	489	1880	F R	Mast
	14978	SOLLEFTEÅ	630841.8N 0164117.6E	489	1900	F R	Mast
	15632	HOCKSJÖN	632715.9N 0160017.2E	753	2341	F R	Wind turbine
	15633	HOCKSJÖN	632650.1N 0160001.7E	753	2302	FLG W	Wind turbine
	15634	HOCKSJÖN	632637.0N 0160021.3E	753	2252	F R	Wind turbine
	15635	HOCKSJÖN	632704.6N 0160122.5E	753	2295	F R	Wind turbine
	15636	HOCKSJÖN	632649.3N 0160203.4E	753	2384	F R	Wind turbine
	15637	HOCKSJÖN	632638.5N 0160119.7E	753	2098	F R	Wind turbine
	15638	HOCKSJÖN	632618.4N 0160136.9E	753	2154	FLG W	Wind turbine
	15639	HOCKSJÖN	632722.4N 0160146.7E	753	2055	FLG W	Wind turbine
	15640	HOCKSJÖN	632717.0N 0160303.7E	753	2141	F R	Wind turbine
	15641	HOCKSJÖN	632713.9N 0160420.8E	753	2111	F R	Wind turbine
	15642	HOCKSJÖN	632652.0N 0160457.4E	753	2285	FLG W	Wind turbine
	15643	HOCKSJÖN	632710.9N 0160508.5E	753	2285	F R	Wind turbine
	15644	HOCKSJÖN	632656.6N 0160548.9E	753	2203	FLG W	Wind turbine
	15645	HOCKSJÖN	632726.5N 0160448.3E	753	2288	F R	Wind turbine
	15646	HOCKSJÖN	632743.2N 0160531.7E	753	2226	FLG W	Wind turbine
	15647	HOCKSJÖN	632729.6N 0160548.2E	753	2318	F R	Wind turbine
	15648	HOCKSJÖN	632754.7N 0160439.7E	753	2249	F R	Wind turbine
	15649	HOCKSJÖN	632809.7N 0160518.7E	753	2190	F R	Wind turbine
	15650	HOCKSJÖN	632823.2N 0160532.7E	753	2160	FLG W	Wind turbine
	15651	HOCKSJÖN	632811.2N 0160413.3E	753	2098	F R	Wind turbine
	15652	HOCKSJÖN	632823.7N 0160342.5E	753	2016	FLG W	Wind turbine
63N 17E	494	SOLLEFTEÅ/MULTRÅ	631511.0N 0172704.1E	945	2231	FLG W	Mast
	497	LÅNGSELE	631236.9N 0170350.9E	354	1309	F R	Mast
	4764	SOLLEFTEÅ/MULTRÅ	631510.2N 0172703.3E	351	1636	-	Mast
	9437	STORBERGET	635644.5N 0172836.5E (*)	394	1909	F R	Mast
	9480	STIGSHÖJDEN	631327.5N 0175828.5E (*)	331	1742	F R	Mast
	10454	TANNFLOHÖJDEN	632826.6N 0170840.8E (*)	394	2021	F R	Mast
	10455	VITBERGSHÖJDEN	632738.7N 0171701.4E (*)	394	1808	F R	Mast
	10456	BRÄNNAN	633020.0N 0172146.2E (*)	394	1601	F R	Mast
	10457	STORSJÖHÖJDEN	632203.0N 0172146.3E (*)	394	1752	F R	Mast
	10581	HOLMTRÄSK	635321.1N 0172537.6E (*)	394	2011	F R	Mast
	10800	TRATTBERGET	634834.6N 0172215.7E (*)	574	2182	FLG R	Wind turbine
	10801	TRATTBERGET	634822.1N 0172217.2E (*)	492	2116	FLG R	Wind turbine
	10802	TRATTBERGET	634840.1N 0172246.9E (*)	492	2103	FLG R	Wind turbine
	10803	TRATTBERGET	634826.0N 0172243.6E (*)	492	2146	FLG R	Wind turbine
	10804	TRATTBERGET	634833.1N 0172323.4E (*)	492	2172	FLG R	Wind turbine
	10805	TRATTBERGET	634818.6N 0172318.0E (*)	492	2208	FLG R	Wind turbine
	10806	TRATTBERGET	634839.7N 0172352.5E (*)	492	2178	FLG R	Wind turbine
	10807	TRATTBERGET	634825.7N 0172347.3E (*)	492	2257	FLG R	Wind turbine
	10808	TRATTBERGET	634810.6N 0172344.3E (*)	492	2228	FLG R	Wind turbine
	10809	TRATTBERGET	634831.8N 0172413.9E (*)	492	2260	FLG R	Wind turbine
	10810	TRATTBERGET	634817.3N 0172414.4E (*)	492	2274	FLG R	Wind turbine
	10811	TRATTBERGET	634803.2N 0172412.8E (*)	492	2211	FLG R	Wind turbine
	10812	TRATTBERGET	634827.2N 0172445.6E (*)	492	2224	FLG R	Wind turbine
	10813	TRATTBERGET	634813.9N 0172448.4E (*)	492	2260	FLG R	Wind turbine
	10814	TRATTBERGET	634753.3N 0172436.7E (*)	492	2198	FLG R	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	10815	TRATTBERGET	634819.5N 0172514.2E (*)	492	2208	FLG R	Wind turbine
	10816	TRATTBERGET	634802.8N 0172516.9E (*)	492	2198	FLG R	Wind turbine
	10817	TRATTBERGET	634811.0N 0172540.9E (*)	492	2182	FLG R	Wind turbine
	10818	TRATTBERGET	634757.3N 0172559.5E (*)	492	2172	FLG R	Wind turbine
	10819	TRATTBERGET	634727.7N 0172323.1E (*)	492	2129	FLG R	Wind turbine
	10820	TRATTBERGET	634714.7N 0172309.5E (*)	492	2100	FLG R	Wind turbine
	10821	TRATTBERGET	634730.8N 0172355.1E (*)	492	2139	FLG R	Wind turbine
	10822	TRATTBERGET	634715.7N 0172341.1E (*)	492	2162	FLG R	Wind turbine
	10823	TRATTBERGET	634724.5N 0172424.5E (*)	492	2152	FLG R	Wind turbine
	10824	TRATTBERGET	634711.1N 0172412.5E (*)	492	2133	FLG R	Wind turbine
	10825	TRATTBERGET	634826.5N 0172145.7E (*)	492	2103	FLG R	Wind turbine
	10826	TRATTBERGET	634750.7N 0172533.0E (*)	492	2103	FLG R	Wind turbine
	10827	TRATTBERGET	634803.9N 0172313.0E (*)	492	2096	FLG R	Wind turbine
	10828	TRATTBERGET	634712.8N 0172443.4E (*)	492	2060	FLG R	Wind turbine
	10829	TRATTBERGET	634713.3N 0172237.3E (*)	492	2024	FLG R	Wind turbine
	11526	SIDENSJÖ	631502.8N 0175839.8E (*)	384	1572	F R	Mast
	12159	SIDENSJÖ	631458.3N 0175857.1E (*)	564	1736	FLG W	Wind turbine
	12160	SIDENSJÖ	631511.3N 0175936.1E (*)	564	1732	F R	Wind turbine
	12161	SIDENSJÖ	631525.6N 0175912.0E (*)	564	1768	FLG W	Wind turbine
	12473	RÖDSTAHÖJDEN	630628.1N 0170950.0E (*)	492	1736	FLG R	Wind turbine
	12474	RÖDSTAHÖJDEN	630625.1N 0170912.6E (*)	492	1716	FLG R	Wind turbine
	12475	RÖDSTAHÖJDEN	630607.1N 0170922.8E (*)	492	1752	FLG R	Wind turbine
	12476	RÖDSTAHÖJDEN	630546.0N 0170816.2E (*)	492	1739	FLG R	Wind turbine
	12477	RÖDSTAHÖJDEN	630550.0N 0170904.5E (*)	492	1791	FLG R	Wind turbine
	12478	RÖDSTAHÖJDEN	630540.7N 0170940.7E (*)	558	1860	FLG R	Wind turbine
	12958	HOLMTRÄSK	635402.8N 0172401.2E (*)	591	1979	FLG W	Wind turbine
	12959	HOLMTRÄSK	635406.0N 0172445.0E (*)	591	2060	F R	Wind turbine
	12960	HOLMTRÄSK	635356.4N 0172534.5E (*)	591	2065	FLG W	Wind turbine
	12961	HOLMTRÄSK	635347.0N 0172452.3E (*)	591	2128	F R	Wind turbine
	12962	HOLMTRÄSK	635331.0N 0172519.5E (*)	591	2179	FLG W	Wind turbine
	12963	HOLMTRÄSK	635302.9N 0172620.9E (*)	591	2261	F R	Wind turbine
	12964	HOLMTRÄSK	635316.4N 0172553.6E (*)	591	2208	F R	Wind turbine
	12965	HOLMTRÄSK	635327.5N 0172639.4E (*)	591	2214	F R	Wind turbine
	12966	HOLMTRÄSK	635234.3N 0172710.2E (*)	591	2283	FLG W	Wind turbine
	12967	HOLMTRÄSK	635300.2N 0172703.6E (*)	591	2349	F R	Wind turbine
	12968	HOLMTRÄSK	635248.6N 0172732.8E (*)	591	2420	F R	Wind turbine
	12969	HOLMTRÄSK	635235.2N 0172756.4E (*)	591	2323	F R	Wind turbine
	12970	HOLMTRÄSK	635244.5N 0172831.9E (*)	591	2203	F R	Wind turbine
	12971	HOLMTRÄSK	635230.5N 0172902.5E (*)	591	2229	F R	Wind turbine
	12972	HOLMTRÄSK	635209.9N 0172821.1E (*)	591	2266	FLG W	Wind turbine
	12973	HOLMTRÄSK	635212.3N 0172912.0E (*)	591	2333	F R	Wind turbine
	12974	HOLMTRÄSK	635200.4N 0172943.6E (*)	591	2233	F R	Wind turbine
	12975	HOLMTRÄSK	635140.5N 0173014.3E (*)	591	2134	FLG W	Wind turbine
	12976	HOLMTRÄSK	635341.5N 0172756.5E (*)	591	2042	FLG W	Wind turbine
	12977	HOLMTRÄSK	635315.0N 0172910.1E (*)	591	2152	F R	Wind turbine
	12978	HOLMTRÄSK	635302.9N 0172941.3E (*)	591	2280	FLG W	Wind turbine
	12979	HOLMTRÄSK	635248.2N 0173003.1E (*)	591	2211	FLG W	Wind turbine
	13638	STIGSHÖJDEN	631306.1N 0175920.5E (*)	492	1772	F R	Wind turbine
	13639	STIGSHÖJDEN	631316.4N 0175848.7E (*)	492	1857	F R	Wind turbine
	13640	STIGSHÖJDEN	631330.4N 0175815.7E (*)	492	1873	F R	Wind turbine
	13641	STIGSHÖJDEN	631328.2N 0175944.1E (*)	492	1729	F R	Wind turbine
	13642	STIGSHÖJDEN	631334.3N 0175913.6E (*)	492	1814	F R	Wind turbine
	13643	STIGSHÖJDEN	631344.6N 0175842.1E (*)	492	1880	F R	Wind turbine
	15026	BLACKFJÄLLET	635330.9N 0175936.6E	656	1919	FLG W	Wind turbine
	15027	BLACKFJÄLLET	635341.0N 0175810.7E	656	1897	F R	Wind turbine
	15028	BLACKFJÄLLET	635354.5N 0175847.3E	656	1930	FLG W	Wind turbine
	15029	BLACKFJÄLLET	635401.5N 0175655.2E	656	2019	FLG W	Wind turbine
	15030	BLACKFJÄLLET	635341.9N 0175656.5E	656	2067	F R	Wind turbine
	15031	BLACKFJÄLLET	635328.0N 0175721.0E	656	2157	F R	Wind turbine
	15032	BLACKFJÄLLET	635308.3N 0175657.9E	656	2161	FLG W	Wind turbine
	15033	BLACKFJÄLLET	635253.9N 0175726.5E	656	2291	FLG W	Wind turbine
	15036	BLACKFJÄLLET	635256.0N 0175916.9E	656	2206	F R	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	15037	BLACKFJÄLLET	635308.0N 0175945.6E	656	2036	F R	Wind turbine
	15038	BLACKFJÄLLET	635331.5N 0175747.9E	656	2189	F R	Wind turbine
	15039	BLACKFJÄLLET	635305.4N 0175809.1E	656	2192	F R	Wind turbine
	15040	BLACKFJÄLLET	635253.8N 0175852.2E	656	2172	F R	Wind turbine
	15041	BLACKFJÄLLET	635322.5N 0175827.3E	656	2290	F R	Wind turbine
	15042	BLACKFJÄLLET	635309.1N 0175850.9E	656	2326	F R	Wind turbine
	15043	BLACKFJÄLLET	635336.8N 0175825.9E	656	2277	F R	Wind turbine
	15044	BLACKFJÄLLET	635347.5N 0175755.9E	656	2218	F R	Wind turbine
	15045	RÖDSANDTORPET	634816.1N 0175927.3E	656	2128	FLG W	Wind turbine
	15046	RÖDSANDTORPET	634824.0N 0175901.3E	656	2254	F R	Wind turbine
	15047	RÖDSANDTORPET	634836.3N 0175954.6E	656	2317	F R	Wind turbine
	15048	RÖDSANDTORPET	634842.7N 0175853.2E	656	2231	F R	Wind turbine
	15049	RÖDSANDTORPET	634850.1N 0175930.1E	656	2156	FLG W	Wind turbine
	15050	RÖDSANDTORPET	634858.9N 0175835.5E	656	2176	F R	Wind turbine
	15051	RÖDSANDTORPET	634829.1N 0175805.5E	656	2173	F R	Wind turbine
	15052	RÖDSANDTORPET	634843.9N 0175813.7E	656	2263	F R	Wind turbine
	15053	RÖDSANDTORPET	634900.5N 0175736.8E	656	2199	F R	Wind turbine
	15054	RÖDSANDTORPET	634909.0N 0175709.2E	656	2062	FLG W	Wind turbine
	15055	RÖDSANDTORPET	634908.3N 0175616.9E	656	1978	F R	Wind turbine
	15056	RÖDSANDTORPET	634810.3N 0175840.7E	656	2057	F R	Wind turbine
	15057	RÖDSANDTORPET	634821.0N 0175742.0E	656	2136	F R	Wind turbine
	15058	RÖDSANDTORPET	634801.6N 0175738.9E	656	2078	FLG W	Wind turbine
	15059	RÖDSANDTORPET	634831.2N 0175708.4E	656	2155	FLG W	Wind turbine
	15060	RÖDSANDTORPET	634821.4N 0175620.2E	656	2331	F R	Wind turbine
	15061	RÖDSANDTORPET	634836.3N 0175603.1E	656	2248	F R	Wind turbine
	15062	RÖDSANDTORPET	634835.0N 0175514.3E	656	2265	F R	Wind turbine
	15063	RÖDSANDTORPET	634847.9N 0175505.8E	656	2308	F R	Wind turbine
	15064	RÖDSANDTORPET	634847.7N 0175546.2E	656	2241	F R	Wind turbine
	15065	RÖDSANDTORPET	634906.9N 0175449.7E	656	2023	FLG W	Wind turbine
	15066	RÖDSANDTORPET	634849.4N 0175406.0E	656	2119	F R	Wind turbine
	15067	RÖDSANDTORPET	634853.6N 0175332.1E	656	2169	F R	Wind turbine
	15068	RÖDSANDTORPET	634854.5N 0175300.1E	656	2146	FLG W	Wind turbine
	15069	RÖDSANDTORPET	634820.4N 0175517.1E	656	2408	FLG W	Wind turbine
	15070	RÖDSANDTORPET	634810.4N 0175536.4E	656	2338	FLG W	Wind turbine
	15071	RÖDSANDTORPET	634834.5N 0175413.3E	656	2243	F R	Wind turbine
	15072	RÖDSANDTORPET	634813.9N 0175447.2E	656	2218	F R	Wind turbine
	15073	RÖDSANDTORPET	634822.2N 0175345.7E	656	2251	F R	Wind turbine
	15074	RÖDSANDTORPET	634820.3N 0175308.4E	656	2302	F R	Wind turbine
	15075	RÖDSANDTORPET	634806.6N 0175340.3E	656	2091	FLG W	Wind turbine
	15076	RÖDSANDTORPET	634755.8N 0175305.5E	656	2140	F R	Wind turbine
	15077	RÖDSANDTORPET	634759.6N 0175231.3E	656	2203	F R	Wind turbine
	15078	RÖDSANDTORPET	634812.3N 0175246.9E	656	2189	F R	Wind turbine
	15079	RÖDSANDTORPET	634811.4N 0175145.6E	656	2104	F R	Wind turbine
	15080	RÖDSANDTORPET	634757.4N 0175146.6E	656	2060	FLG W	Wind turbine
	15081	RÖDSANDTORPET	634834.2N 0175256.8E	656	2287	F R	Wind turbine
	15082	RÖDSANDTORPET	634829.1N 0175222.9E	656	2267	F R	Wind turbine
	15083	RÖDSANDTORPET	634827.5N 0175146.9E	656	2194	FLG W	Wind turbine
	15084	RÖDSANDTORPET	634846.0N 0175219.2E	656	2155	F R	Wind turbine
63N 18E	510	ÖRNSKÖLDSVIK/ÅS	631809.2N 0183938.7E	558	1259	F R/FLG W	Mast
	10672	BJÖRNA	633334.3N 0184355.0E (*)	387	1552	F R	Mast
	11529	LIDBERGET	631747.3N 0180836.7E (*)	384	1535	F R	Mast
	11856	STORHÖJDEN	630931.9N 0180035.1E (*)	394	1673	F R	Mast
	11860	SIDENSJÖ BRANDBERGET	631804.3N 0180510.0E (*)	564	1657	FLG W	Wind turbine
	11861	SIDENSJÖ BRANDBERGET	631817.4N 0180552.7E (*)	564	1585	F R	Wind turbine
	11862	SIDENSJÖ BRANDBERGET	631830.4N 0180630.3E (*)	564	1588	FLG W	Wind turbine
	11863	SIDENSJÖ BRANDBERGET	631753.2N 0180558.4E (*)	564	1572	F R	Wind turbine
	11864	SIDENSJÖ BRANDBERGET	631807.3N 0180628.8E (*)	564	1637	F R	Wind turbine
	11865	SIDENSJÖ BRANDBERGET	631818.5N 0180703.7E (*)	564	1637	F R	Wind turbine
	11866	SIDENSJÖ BRANDBERGET	631750.2N 0180637.0E (*)	564	1650	FLG W	Wind turbine
	11867	SIDENSJÖ BRANDBERGET	631801.4N 0180719.9E (*)	564	1650	F R	Wind turbine
	11868	SIDENSJÖ BRANDBERGET	631811.9N 0180749.0E (*)	564	1601	F R	Wind turbine
	11869	SIDENSJÖ BRANDBERGET	631745.6N 0180720.9E (*)	564	1621	F R	Wind turbine

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Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	11870	SIDENSJÖ BRANDBERGET	631755.3N 0180804.3E (*)	564	1663	F R	Wind turbine
	11871	SIDENSJÖ BRANDBERGET	631813.1N 0180843.3E (*)	564	1667	FLG W	Wind turbine
	11872	SIDENSJÖ BRANDBERGET	631754.5N 0180847.7E (*)	564	1732	F R	Wind turbine
	11873	SIDENSJÖ BRANDBERGET	631807.9N 0180923.8E (*)	564	1650	FLG W	Wind turbine
	11874	SIDENSJÖ BRANDBERGET	631735.5N 0180905.4E (*)	564	1693	FLG W	Wind turbine
	11875	SIDENSJÖ BRANDBERGET	631742.7N 0180944.7E (*)	564	1752	FLG W	Wind turbine
	11876	SIDENSJÖ BRANDBERGET	631758.4N 0180954.0E (*)	564	1644	F R	Wind turbine
	12162	SIDENSJÖ	631555.2N 0180013.2E (*)	564	1581	FLG W	Wind turbine
	12163	SIDENSJÖ	631548.3N 0180053.7E (*)	564	1640	F R	Wind turbine
	12164	SIDENSJÖ	631604.1N 0180115.3E (*)	564	1598	FLG W	Wind turbine
	12165	SIDENSJÖ	631540.1N 0180138.8E (*)	564	1637	F R	Wind turbine
	12166	SIDENSJÖ	631556.6N 0180205.9E (*)	564	1647	F R	Wind turbine
	12167	SIDENSJÖ	631535.4N 0180220.5E (*)	564	1647	F R	Wind turbine
	12168	SIDENSJÖ	631528.9N 0180310.9E (*)	564	1732	F R	Wind turbine
	12169	SIDENSJÖ	631548.2N 0180332.2E (*)	564	1650	F R	Wind turbine
	12170	SIDENSJÖ	631523.1N 0180403.0E (*)	564	1627	F R	Wind turbine
	12171	SIDENSJÖ	631537.3N 0180450.2E (*)	564	1575	F R	Wind turbine
	12172	SIDENSJÖ	631517.3N 0180448.5E (*)	564	1575	F R	Wind turbine
	12173	SIDENSJÖ	631532.7N 0180544.0E (*)	564	1555	FLG W	Wind turbine
	12174	SIDENSJÖ	631458.4N 0180526.4E (*)	564	1581	F R	Wind turbine
	12175	SIDENSJÖ	631507.4N 0180326.0E (*)	564	1663	F R	Wind turbine
	12176	SIDENSJÖ	631448.4N 0180349.3E (*)	564	1647	F R	Wind turbine
	12177	SIDENSJÖ	631429.3N 0180415.0E (*)	564	1614	F R	Wind turbine
	12178	SIDENSJÖ	631451.3N 0180138.6E (*)	564	1719	F R	Wind turbine
	12179	SIDENSJÖ	631425.5N 0180133.9E (*)	564	1765	FLG W	Wind turbine
	12180	SIDENSJÖ	631439.4N 0180219.0E (*)	564	1742	F R	Wind turbine
	12181	SIDENSJÖ	631416.2N 0180209.5E (*)	564	1785	FLG W	Wind turbine
	12182	SIDENSJÖ	631405.2N 0180243.2E (*)	564	1742	FLG W	Wind turbine
	12183	SIDENSJÖ	631416.6N 0180501.5E (*)	564	1670	FLG W	Wind turbine
	12184	SIDENSJÖ	631424.2N 0180539.1E (*)	564	1608	FLG W	Wind turbine
	12185	SIDENSJÖ	631446.3N 0180852.2E (*)	564	1467	FLG W	Wind turbine
	12186	SIDENSJÖ	631458.6N 0180917.4E (*)	564	1453	F R	Wind turbine
	12187	SIDENSJÖ	631449.8N 0181006.0E (*)	564	1388	FLG W	Wind turbine
	12188	SIDENSJÖ	631551.4N 0180250.4E (*)	564	1742	FLG W	Wind turbine
	12189	SIDENSJÖ	631513.2N 0180851.1E (*)	564	1427	FLG W	Wind turbine
	13548	ÅLIDEN	634440.6N 0184951.6E (*)	655	1832	FLG W	Wind turbine
	13549	ÅLIDEN	634430.2N 0184930.3E (*)	655	1947	FLG W	Wind turbine
	13550	ÅLIDEN	634423.7N 0185020.6E (*)	655	1895	FLG W	Wind turbine
	13551	ÅLIDEN	634413.7N 0184959.6E (*)	655	1965	FLG W	Wind turbine
	13552	ÅLIDEN	634411.3N 0184918.9E (*)	655	1946	FLG W	Wind turbine
	13553	ÅLIDEN	634403.3N 0185052.3E (*)	655	1915	FLG W	Wind turbine
	13554	ÅLIDEN	634355.3N 0185023.3E (*)	655	1885	F R	Wind turbine
	13555	ÅLIDEN	634326.6N 0185120.5E (*)	655	1781	FLG W	Wind turbine
	13556	ÅLIDEN	634311.0N 0185155.9E (*)	655	1725	FLG W	Wind turbine
	13557	ÅLIDEN	634252.2N 0185124.0E (*)	655	1620	F R	Wind turbine
	13558	ÅLIDEN	634248.0N 0185040.5E (*)	655	1719	FLG W	Wind turbine
	13559	ÅLIDEN	634232.9N 0185202.1E (*)	655	1618	FLG W	Wind turbine
	14077	BRATTMYRLIDEN	633912.0N 0185846.6E (*)	656	1680	FLG W	Wind turbine
	14079	BRATTMYRLIDEN	633856.0N 0185928.2E (*)	656	1768	FLG W	Wind turbine
	14081	BRATTMYRLIDEN	633903.0N 0185806.0E (*)	656	1693	FLG W	Wind turbine
	14082	BRATTMYRLIDEN	633847.8N 0185900.6E (*)	656	1798	FLG W	Wind turbine
	14084	BRATTMYRLIDEN	633814.5N 0185942.6E (*)	656	1745	FLG W	Wind turbine
	14085	BRATTMYRLIDEN	633814.2N 0185754.7E (*)	656	1683	FLG W	Wind turbine
	14089	BRATTMYRLIDEN	633752.0N 0185913.6E (*)	656	1742	FLG W	Wind turbine
	14090	BRATTMYRLIDEN	633744.7N 0185821.8E (*)	656	1650	F R	Wind turbine
	14091	BRATTMYRLIDEN	633737.3N 0185755.0E (*)	656	1614	FLG W	Wind turbine
	14094	BRATTMYRLIDEN	633710.9N 0185849.0E (*)	656	1663	FLG W	Wind turbine
	15023	BLACKFJÄLLET	635254.5N 0180121.4E	656	2087	FLG W	Wind turbine
	15024	BLACKFJÄLLET	635310.6N 0180054.7E	656	1955	F R	Wind turbine
	15025	BLACKFJÄLLET	635322.4N 0180005.3E	656	1921	F R	Wind turbine
	15034	BLACKFJÄLLET	635240.8N 0180049.6E	656	2083	FLG W	Wind turbine
	15035	BLACKFJÄLLET	635254.2N 0180007.2E	656	2113	F R	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
63N 19E	514	VÄNNÄS	635025.3N 0194921.5E	1060	1853	F R/FLG W	Mast
	690	HUSUM 2	631931.4N 0190937.4E (*)	361	387	F R	Chimney
	8525	GABRIELSBERGET	633200.6N 0191621.1E (*)	394	1122	F R	Mast
	9324	HÖRNEFORS	633730.9N 0195810.7E (*)	456	495	-	Wind turbine
	9325	HÖRNEFORS	633742.9N 0195807.4E (*)	456	492	-	Wind turbine
	9326	HÖRNEFORS	633755.9N 0195804.2E (*)	456	499	-	Wind turbine
	9327	HÖRNEFORS	633740.6N 0195712.5E (*)	456	509	-	Wind turbine
	9328	HÖRNEFORS	633751.8N 0195707.6E (*)	456	528	-	Wind turbine
	9329	HÖRNEFORS	633805.5N 0195702.3E (*)	456	525	-	Wind turbine
	9672	HÖRNEFORS	633819.0N 0195757.8E (*)	492	548	FLG R	Wind turbine
	9673	HÖRNEFORS	633807.4N 0195800.9E (*)	492	545	FLG R	Wind turbine
	9674	HÖRNEFORS	633832.1N 0195756.4E (*)	492	548	FLG R	Wind turbine
	9675	HÖRNEFORS	633843.9N 0195755.0E (*)	492	551	FLG R	Wind turbine
	9676	HÖRNEFORS	633815.9N 0195657.5E (*)	492	581	FLG R	Wind turbine
	9814	GABRIELSBERGET	633127.2N 0191633.7E (*)	489	1181	FLG R	Wind turbine
	9834	GABRIELSBERGET	633136.5N 0191643.2E (*)	489	1161	FLG R	Wind turbine
	9835	GABRIELSBERGET	633149.1N 0191532.8E (*)	489	1220	FLG R	Wind turbine
	9836	GABRIELSBERGET	633141.6N 0191559.9E (*)	489	1194	FLG R	Wind turbine
	9837	GABRIELSBERGET	633208.9N 0191534.9E (*)	489	1207	FLG R	Wind turbine
	9838	GABRIELSBERGET	633201.1N 0191618.7E (*)	489	1227	FLG R	Wind turbine
	9911	NYLAND/GABRIELSBERGET	633127.4N 0191558.7E (*)	489	1168	FLG R	Wind turbine
	9912	GABRIELSBERGET	633207.1N 0191718.2E (*)	489	1188	FLG R	Wind turbine
	9913	GABRIELSBERGET	633208.0N 0191651.2E (*)	489	1184	FLG R	Wind turbine
	9914	NYLAND/GABRIELSBERGET	633206.7N 0191346.1E (*)	489	1168	FLG R	Wind turbine
	9928	LÖGDEÅ	633219.9N 0191733.6E (*)	489	1152	FLG R	Wind turbine
	9929	LÖGDEÅ	633223.6N 0191711.4E (*)	489	1191	FLG R	Wind turbine
	9967	LÖGDEÅ	633200.3N 0191704.9E (*)	489	1178	FLG R	Wind turbine
	10001	GABRIELSBERGET	633155.2N 0191459.5E (*)	489	1184	FLG R	Wind turbine
	10002	GABRIELSBERGET	633208.9N 0191457.0E (*)	489	1198	FLG R	Wind turbine
	10003	GABRIELSBERGET	633214.9N 0191418.8E (*)	489	1201	FLG R	Wind turbine
	10004	GABRIELSBERGET	633226.5N 0191434.8E (*)	489	1230	FLG R	Wind turbine
	10005	GABRIELSBERGET	633219.2N 0191342.6E (*)	489	1188	FLG R	Wind turbine
	10006	GABRIELSBERGET	633216.6N 0191618.2E (*)	489	1204	FLG R	Wind turbine
	10007	GABRIELSBERGET	633131.9N 0191702.0E (*)	489	1125	FLG R	Wind turbine
	10526	GABRIELSBERGET	633303.2N 0191326.8E (*)	489	1240	FLG R	Wind turbine
	10527	GABRIELSBERGET	633257.4N 0191524.0E (*)	489	1178	FLG R	Wind turbine
	10528	GABRIELSBERGET	633309.2N 0191727.9E (*)	489	1122	FLG R	Wind turbine
	10529	GABRIELSBERGET	633252.4N 0191544.5E (*)	489	1201	FLG R	Wind turbine
	10530	GABRIELSBERGET	633242.1N 0191550.5E (*)	489	1204	FLG R	Wind turbine
	10531	GABRIELSBERGET	633230.4N 0191606.7E (*)	489	1214	FLG R	Wind turbine
	10532	GABRIELSBERGET	633241.0N 0191735.1E (*)	489	1165	FLG R	Wind turbine
	10533	GABRIELSBERGET	633249.9N 0191817.3E (*)	489	1129	FLG R	Wind turbine
	10534	GABRIELSBERGET	633257.0N 0191703.1E (*)	489	1132	FLG R	Wind turbine
	10535	GABRIELSBERGET	633238.0N 0191424.8E (*)	489	1220	FLG R	Wind turbine
	10536	GABRIELSBERGET	633250.7N 0191419.5E (*)	489	1217	FLG R	Wind turbine
	10537	GABRIELSBERGET	633240.7N 0191350.9E (*)	489	1201	FLG R	Wind turbine
	10538	GABRIELSBERGET	633248.6N 0191332.2E (*)	489	1227	FLG R	Wind turbine
	10539	GABRIELSBERGET	633311.6N 0191430.6E (*)	489	1198	FLG R	Wind turbine
	10540	GABRIELSBERGET	633324.7N 0191450.2E (*)	489	1184	FLG R	Wind turbine
	10541	GABRIELSBERGET	633305.4N 0191354.1E (*)	489	1230	FLG R	Wind turbine
	10576	BJÄRTEN	634948.0N 0190607.8E (*)	328	1417	F R	Mast
	11235	STENBERG	634359.9N 0191249.8E (*)	394	1335	F R	Mast
	11442	GABRIELSBERGET	633342.9N 0191411.6E (*)	489	1168	FLG R	Wind turbine
	11443	GABRIELSBERGET	633330.1N 0191416.1E (*)	489	1188	FLG R	Wind turbine
	11444	GABRIELSBERGET	633328.7N 0191338.9E (*)	489	1220	FLG R	Wind turbine
	11445	GABRIELSBERGET	633320.4N 0191346.8E (*)	489	1211	FLG R	Wind turbine
	12522	NORDMALING	633052.9N 0191736.6E (*)	387	981	F R	Mast
	14078	BRATTMYRLIDEN	633905.5N 0190034.4E (*)	656	1647	FLG W	Wind turbine
	14080	BRATTMYRLIDEN	633834.9N 0190106.4E (*)	656	1765	FLG W	Wind turbine
	14083	BRATTMYRLIDEN	633828.3N 0190023.5E (*)	656	1755	FLG W	Wind turbine
	14086	BRATTMYRLIDEN	633825.9N 0190157.8E (*)	656	1759	FLG W	Wind turbine
	14087	BRATTMYRLIDEN	633808.1N 0190218.9E (*)	656	1736	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
	14088	BRATTMYRLIDEN	633756.3N 0190135.0E (*)	656	1650	F R	Wind turbine
	14092	BRATTMYRLIDEN	633731.7N 0190102.8E (*)	656	1680	F R	Wind turbine
	14093	BRATTMYRLIDEN	633730.1N 0190017.0E (*)	656	1749	FLG W	Wind turbine
	14095	BRATTMYRLIDEN	633703.1N 0190022.4E (*)	656	1696	FLG W	Wind turbine
	14817	HUSUM	631933.0N 0190944.1E (*)	401	416	FLG R	Chimney
63N 20E	3849	DÅVAMYRAN	635205.3N 0202435.3E (*)	331	430	F R	Chimney
	8483	HOLMSUND	634022.6N 0202019.1E (*)	410	423	FLG R	Wind turbine
	9177	HOLMSUND	634028.2N 0202003.3E (*)	410	410	F R	Wind turbine
	9432	HOLMSUND	633919.1N 0202342.4E (*)	335	344	F R	Mast
	9946	HOLMÖN	634716.2N 0205319.2E (*)	328	371	F R	Mast
	10200	SÄVAR	635519.7N 0203941.2E (*)	328	495	F R	Mast
	14424	SÄVAR	635401.2N 0204017.8E	476	574	F R	Mast
64N 15E	8275	HARRSJÖN	642323.5N 0152359.4E (*)	335	2549	F R	Wind turbine
	9044	KOMMERBERGET	642333.0N 0152412.7E (*)	338	2448	FLG R	Wind turbine
	9045	KOMMERBERGET	642330.9N 0152354.5E (*)	338	2451	FLG R	Wind turbine
	9156	BLIEKEVARE	643857.9N 0153257.1E (*)	410	2723	FLG R	Wind turbine
	9157	BLIEKEVARE	643844.0N 0153252.2E (*)	410	2772	F R	Wind turbine
	9158	BLIEKEVARE	643900.9N 0153335.0E (*)	410	2625	FLG R	Wind turbine
	9159	BLIEKEVARE	643847.9N 0153325.0E (*)	410	2756	F R	Wind turbine
	9160	BLIEKEVARE	643835.5N 0153318.0E (*)	410	2789	FLG R	Wind turbine
	9161	BLIEKEVARE	643823.7N 0153304.6E (*)	410	2740	F R	Wind turbine
	9162	BLIEKEVARE	643900.9N 0153413.1E (*)	410	2608	FLG R	Wind turbine
	9163	BLIEKEVARE	643850.1N 0153442.8E (*)	410	2707	FLG R	Wind turbine
	9164	BLIEKEVARE	643849.4N 0153405.5E (*)	410	2789	F R	Wind turbine
	9165	BLIEKEVARE	643836.3N 0153403.0E (*)	410	2854	F R	Wind turbine
	9166	BLIEKEVARE	643824.1N 0153402.0E (*)	410	2789	FLG R	Wind turbine
	9167	BLIEKEVARE	643813.7N 0153335.2E (*)	410	2723	F R	Wind turbine
	9168	BLIEKEVARE	643800.1N 0153338.1E (*)	410	2822	FLG R	Wind turbine
	9169	BLIEKEVARE	643749.5N 0153315.0E (*)	410	2789	FLG R	Wind turbine
	9170	BLIEKEVARE	643755.5N 0153249.8E (*)	410	2789	F R	Wind turbine
	9171	BLIEKEVARE	643809.0N 0153248.2E (*)	410	2723	FLG R	Wind turbine
	9172	BLIEKEVARE	643840.4N 0153426.5E (*)	410	2740	F R	Wind turbine
	9173	BLIEKEVARE	643802.5N 0153311.7E (*)	410	2772	F R	Wind turbine
	9515	ALAVATTNET	640205.5N 0153906.5E (*)	476	2172	FLG R	Wind turbine
	9516	ALAVATTNET	640221.0N 0153859.4E (*)	476	2126	FLG R	Wind turbine
	9517	ALAVATTNET	640231.1N 0153914.0E (*)	476	2136	FLG R	Wind turbine
	9518	ALAVATTNET	640239.3N 0153921.6E (*)	476	2146	FLG R	Wind turbine
	9519	ALAVATTNET	640244.1N 0153943.1E (*)	476	2169	FLG R	Wind turbine
	9520	URSÅSEN	640217.8N 0154009.5E (*)	476	2211	FLG R	Wind turbine
	9521	URSÅSEN	640206.7N 0153930.5E (*)	476	2231	FLG R	Wind turbine
	9522	URSÅSEN	640208.7N 0153952.4E (*)	476	2221	FLG R	Wind turbine
	9523	URSÅSEN	640231.0N 0153945.3E (*)	476	2208	FLG R	Wind turbine
	9524	URSÅSEN	640236.6N 0154016.1E (*)	476	2175	FLG R	Wind turbine
	9525	URSÅSEN	640219.2N 0153931.7E (*)	476	2241	FLG R	Wind turbine
	9565	TORPET	640134.3N 0154427.6E (*)	476	2146	FLG R	Wind turbine
	9566	TORPET	640132.7N 0154456.0E (*)	476	2169	FLG R	Wind turbine
	9567	TORPET	640153.1N 0154515.1E (*)	476	2103	FLG R	Wind turbine
	9568	URSÅSEN	640153.3N 0154548.7E (*)	476	2126	FLG R	Wind turbine
	9569	TORPET	640207.7N 0154519.5E (*)	476	2139	FLG R	Wind turbine
	9570	TORPET	640209.3N 0154555.3E (*)	476	2165	FLG R	Wind turbine
	9571	TORPET	640204.1N 0154631.1E (*)	476	2106	FLG R	Wind turbine
	9572	TORPET	640215.6N 0154453.2E (*)	476	2192	FLG R	Wind turbine
	9573	TORPET	640221.8N 0154519.7E (*)	476	2152	FLG R	Wind turbine
	9574	TORPET	640231.1N 0154547.7E (*)	476	2149	FLG R	Wind turbine
	9575	TORPET	640220.4N 0154554.8E (*)	476	2133	FLG R	Wind turbine
	9576	TORPET	640236.3N 0154613.9E (*)	476	2182	FLG R	Wind turbine
	9577	TORPET	640246.3N 0154618.6E (*)	476	2182	FLG R	Wind turbine
	9578	TORPET	640257.8N 0154610.1E (*)	476	2185	FLG R	Wind turbine
	9579	TORPET	640310.0N 0154611.0E (*)	476	2175	FLG R	Wind turbine
	9580	TORPET	640319.5N 0154614.6E (*)	476	2142	FLG R	Wind turbine
	9635	ALAVATTNET	640635.0N 0154201.3E (*)	476	2238	FLG R	Wind turbine
	9636	ALAVATTNET	640644.7N 0154217.4E (*)	476	2188	F R	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	9637	ALAVATTNET	640634.6N 0154239.7E (*)	476	2264	F R	Wind turbine
	9638	ALAVATTNET	640643.9N 0154249.7E (*)	476	2231	FLG R	Wind turbine
	9639	ALAVATTNET	640626.0N 0154220.7E (*)	476	2254	F R	Wind turbine
	9640	ALAVATTNET	640623.5N 0154351.3E (*)	476	2369	F R	Wind turbine
	9641	ALAVATTNET	640637.2N 0154441.0E (*)	476	2359	FLG R	Wind turbine
	9642	ALAVATTNET	640631.1N 0154422.9E (*)	476	2388	F R	Wind turbine
	9643	ALAVATTNET	640607.3N 0154308.6E (*)	476	2362	FLG R	Wind turbine
	9644	ALAVATTNET	640619.4N 0154447.9E (*)	476	2385	F R	Wind turbine
	9645	ALAVATTNET	640529.1N 0154313.2E (*)	476	2405	FLG R	Wind turbine
	9646	ALAVATTNET	640540.7N 0154315.8E (*)	476	2461	F R	Wind turbine
	9647	ALAVATTNET	640552.7N 0154330.2E (*)	476	2493	F R	Wind turbine
	9648	ALAVATTNET	640541.4N 0154350.1E (*)	476	2497	F R	Wind turbine
	9649	ALAVATTNET	640548.1N 0154402.7E (*)	476	2520	F R	Wind turbine
	9650	ALAVATTNET	640532.8N 0154405.3E (*)	476	2572	FLG R	Wind turbine
	9651	ALAVATTNET	640536.8N 0154430.8E (*)	476	2549	F R	Wind turbine
	9652	ALAVATTNET	640545.3N 0154444.4E (*)	476	2526	F R	Wind turbine
	9653	ALAVATTNET	640556.6N 0154447.4E (*)	476	2497	F R	Wind turbine
	9654	ALAVATTNET	640602.9N 0154510.0E (*)	476	2484	FLG R	Wind turbine
	9655	ALAVATTNET	640542.4N 0154510.3E (*)	476	2493	FLG R	Wind turbine
	13092	TÅSJÖ	641357.9N 0155608.1E (*)	963	3020	F R/FLG W	Mast
64N 16E	11255	HEMBERGET	640553.6N 0163556.7E (*)	328	1877	F R	Mast
	12455	STORUMAN	645837.2N 0164432.4E (*)	591	2231	FLG W	Mast
64N 17E	8934	SKARVSJÖBY	645845.4N 0170408.3E (*)	338	2110	F R	Wind turbine
	9151	STORBERGSKULLEN	641427.0N 0170507.8E (*)	328	2231	F R	Mast
	9995	LEDNINGSVALL	642717.4N 0175745.1E (*)	404	2343	F R	Mast
	10096	LATIKBERGET	643929.3N 0170330.3E (*)	420	2323	FLG R	Wind turbine
	10458	PAULIDEN	644919.7N 0173420.6E (*)	394	2169	F R	Mast
	10459	RÄFTBERGET	644832.1N 0172127.9E (*)	394	2306	F R	Mast
	10696	VÄSTER-STORSJÖ	640840.6N 0173426.8E (*)	394	2080	F R	Mast
	11018	RISTRÄSK	644442.5N 0172358.6E (*)	328	2372	FLG R	Wind turbine
	14126	ÅSELE	641413.2N 0171349.8E (*)	492	2178	F R	Wind turbine
	14127	ÅSELE	641400.0N 0171338.4E (*)	492	2244	F R	Wind turbine
	14128	ÅSELE	641352.4N 0171402.6E (*)	492	2198	F R	Wind turbine
	14129	ÅSELE	641339.1N 0171415.9E (*)	492	2087	F R	Wind turbine
64N 18E	533	LYCKSELE/KNAFTEN	642849.0N 0183505.1E	1070	2600	F R/FLG W	Mast
	2838	BÅLFORSEN	643946.0N 0182302.2E	394	1645	F R	Mast
	9855	STOR-ROTLIDEN	641237.0N 0182317.7E (*)	459	2156	FLG R	Wind turbine
	9856	STOR-ROTLIDEN	641300.1N 0182344.4E (*)	459	2215	FLG R	Wind turbine
	9857	STOR-ROTLIDEN	641245.8N 0182343.3E (*)	459	2133	FLG R	Wind turbine
	9858	STOR-ROTLIDEN	641401.5N 0182348.1E (*)	459	2238	FLG R	Wind turbine
	9859	STOR-ROTLIDEN	641342.1N 0182313.4E (*)	459	2244	FLG R	Wind turbine
	9860	STOR-ROTLIDEN	641338.5N 0182237.1E (*)	459	2254	F R	Wind turbine
	9861	STOR-ROTLIDEN	641326.1N 0182243.9E (*)	459	2277	FLG R	Wind turbine
	9862	STOR-ROTLIDEN	641311.7N 0182247.2E (*)	459	2280	FLG R	Wind turbine
	9863	STOR-ROTLIDEN	641300.1N 0182259.8E (*)	459	2346	F R	Wind turbine
	9864	STOR-ROTLIDEN	641247.9N 0182304.7E (*)	459	2313	F R	Wind turbine
	9891	STOR-ROTLIDEN	641240.5N 0182156.8E (*)	459	2057	FLG R	Wind turbine
	9892	STOR-ROTLIDEN	641248.3N 0182131.0E (*)	459	2034	FLG R	Wind turbine
	9893	STOR-ROTLIDEN	641302.5N 0182134.7E (*)	459	2123	FLG R	Wind turbine
	9894	STOR-ROTLIDEN	641233.6N 0182242.6E (*)	459	2106	FLG R	Wind turbine
	9895	STOR-ROTLIDEN	641247.2N 0182232.8E (*)	459	2188	F R	Wind turbine
	9896	STOR-ROTLIDEN	641259.4N 0182221.1E (*)	459	2264	F R	Wind turbine
	9897	STOR-ROTLIDEN	641310.3N 0182206.6E (*)	459	2283	F R	Wind turbine
	9898	STOR-ROTLIDEN	641319.6N 0182145.7E (*)	459	2231	F R	Wind turbine
	9899	STOR-ROTLIDEN	641326.6N 0182123.0E (*)	459	2165	FLG R	Wind turbine
	9900	STOR-ROTLIDEN	641337.6N 0182106.8E (*)	459	2126	FLG R	Wind turbine
	9901	STOR-ROTLIDEN	641349.5N 0182100.1E (*)	459	2080	FLG R	Wind turbine
	9902	STOR-ROTLIDEN	641337.8N 0182203.9E (*)	459	2297	F R	Wind turbine
	9903	STOR-ROTLIDEN	641346.3N 0182143.3E (*)	459	2224	F R	Wind turbine
	9904	STOR-ROTLIDEN	641408.3N 0182111.0E (*)	459	2051	FLG R	Wind turbine
	9905	STOR-ROTLIDEN	641429.4N 0182102.4E (*)	459	2054	FLG R	Wind turbine
	9906	STOR-ROTLIDEN	641419.6N 0182123.2E (*)	459	2119	F R	Wind turbine

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Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	9907	STOR-ROTLIDEN	641441.9N 0182132.5E (*)	459	2057	FLG R	Wind turbine
	9908	STOR-ROTLIDEN	641406.8N 0182243.9E (*)	459	2182	F R	Wind turbine
	9909	STOR-ROTLIDEN	641415.4N 0182225.5E (*)	459	2198	F R	Wind turbine
	9910	STOR-ROTLIDEN	641425.6N 0182211.7E (*)	459	2182	F R	Wind turbine
	9916	STOR-ROTLIDEN	641432.8N 0182149.9E (*)	459	2172	F R	Wind turbine
	9917	STOR-ROTLIDEN	641454.7N 0182228.0E (*)	459	2011	FLG R	Wind turbine
	9918	STOR-ROTLIDEN	641442.4N 0182335.2E (*)	459	2162	FLG R	Wind turbine
	9919	STOR-ROTLIDEN	641434.0N 0182355.0E (*)	459	2224	FLG R	Wind turbine
	9920	STOR-ROTLIDEN	641419.3N 0182418.3E (*)	459	2306	FLG R	Wind turbine
	9921	STOR-ROTLIDEN	641409.9N 0182427.9E (*)	459	2313	FLG R	Wind turbine
	9922	STOR-ROTLIDEN	641418.8N 0182346.1E (*)	459	2333	F R	Wind turbine
	9923	STOR-ROTLIDEN	641424.2N 0182319.3E (*)	459	2277	F R	Wind turbine
	9924	STOR-ROTLIDEN	641434.9N 0182301.4E (*)	459	2215	F R	Wind turbine
	9925	STOR-ROTLIDEN	641447.9N 0182258.0E (*)	459	2077	FLG R	Wind turbine
	14569	FÄBODBERGET	641405.8N 0182952.4E	591	2156	FLG W	Wind turbine
	14570	FÄBODBERGET	641355.2N 0183009.9E	591	2232	F R	Wind turbine
	14571	FÄBODBERGET	641356.7N 0183042.7E	591	2323	F R	Wind turbine
	14572	FÄBODBERGET	641347.5N 0183109.2E	591	2234	FLG W	Wind turbine
	14573	FÄBODBERGET	641336.2N 0183036.5E	591	2215	F R	Wind turbine
	14574	FÄBODBERGET	641351.1N 0182853.0E	591	2203	FLG W	Wind turbine
	14575	FÄBODBERGET	641343.1N 0182917.5E	591	2203	F R	Wind turbine
	14576	FÄBODBERGET	641340.7N 0182830.2E	591	2148	F R	Wind turbine
	14577	FÄBODBERGET	641330.4N 0182811.3E	591	2125	F R	Wind turbine
	14578	FÄBODBERGET	641327.1N 0182905.3E	591	2248	F R	Wind turbine
	14579	FÄBODBERGET	641317.7N 0182936.2E	591	2179	F R	Wind turbine
	14580	FÄBODBERGET	641306.2N 0182920.5E	591	2160	F R	Wind turbine
	14581	FÄBODBERGET	641315.5N 0182746.4E	591	2170	FLG W	Wind turbine
	14582	FÄBODBERGET	641310.0N 0182811.8E	591	2141	F R	Wind turbine
	14583	FÄBODBERGET	641236.4N 0182719.6E	591	2238	F R	Wind turbine
	14584	FÄBODBERGET	641245.2N 0182742.6E	591	2228	F R	Wind turbine
	14585	FÄBODBERGET	641238.9N 0182810.3E	591	2288	F R	Wind turbine
	14586	FÄBODBERGET	641236.7N 0182844.6E	591	2400	F R	Wind turbine
	14587	FÄBODBERGET	641222.3N 0182854.1E	591	2240	FLG W	Wind turbine
	14588	FÄBODBERGET	641224.2N 0182704.3E	591	2176	FLG W	Wind turbine
	14589	FÄBODBERGET	641216.7N 0182735.4E	591	2233	F R	Wind turbine
	14590	FÄBODBERGET	641211.0N 0182840.8E	591	2298	F R	Wind turbine
	14591	FÄBODBERGET	641155.4N 0182727.3E	591	2205	F R	Wind turbine
	14592	FÄBODBERGET	641151.0N 0182755.7E	591	2360	F R	Wind turbine
	14593	FÄBODBERGET	641143.9N 0182821.0E	591	2389	F R	Wind turbine
	14594	FÄBODBERGET	641137.9N 0182733.3E	591	2308	F R	Wind turbine
	14595	FÄBODBERGET	641131.9N 0182808.9E	591	2332	F R	Wind turbine
	14596	FÄBODBERGET	641129.4N 0182710.2E	591	2247	FLG W	Wind turbine
	14597	FÄBODBERGET	641121.5N 0182746.2E	591	2289	F R	Wind turbine
	14598	FÄBODBERGET	641113.6N 0182809.6E	591	2195	F R	Wind turbine
	14599	FÄBODBERGET	641110.3N 0182724.8E	591	2207	F R	Wind turbine
	14600	FÄBODBERGET	641059.7N 0182752.8E	591	2219	F R	Wind turbine
	14601	FÄBODBERGET	641053.6N 0182818.9E	591	2204	FLG W	Wind turbine
	14638	BLAKLIDEN	640130.1N 0180808.8E	591	2379	F R	Wind turbine
	14639	BLAKLIDEN	640143.8N 0180715.0E	591	2349	F R	Wind turbine
	14640	BLAKLIDEN	640258.5N 0180653.8E	591	2264	F R	Wind turbine
	14641	BLAKLIDEN	640218.0N 0180857.0E	591	2343	F R	Wind turbine
	14642	BLAKLIDEN	640153.4N 0180622.5E	591	2270	FLG W	Wind turbine
	14643	BLAKLIDEN	640120.8N 0180708.9E	591	2316	F R	Wind turbine
	14644	BLAKLIDEN	640110.5N 0180547.9E	591	2188	FLG W	Wind turbine
	14645	BLAKLIDEN	640133.1N 0180839.8E	591	2339	FLG W	Wind turbine
	14646	BLAKLIDEN	640215.2N 0180817.0E	591	2297	F R	Wind turbine
	14647	BLAKLIDEN	640140.1N 0180604.4E	591	2247	F R	Wind turbine
	14648	BLAKLIDEN	640215.5N 0180705.2E	591	2267	F R	Wind turbine
	14649	BLAKLIDEN	640146.0N 0180820.5E	591	2343	F R	Wind turbine
	14650	BLAKLIDEN	640307.4N 0180837.3E	591	2201	FLG W	Wind turbine
	14651	BLAKLIDEN	640313.1N 0180626.3E	591	2172	FLG W	Wind turbine
	14652	BLAKLIDEN	640118.9N 0180617.0E	591	2208	F R	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	14653	BLAKLIDEN	640231.0N 0180740.2E	591	2247	F R	Wind turbine
	14654	BLAKLIDEN	640202.0N 0180650.1E	591	2234	F R	Wind turbine
	14655	BLAKLIDEN	640106.9N 0180645.6E	591	2244	F R	Wind turbine
	14656	BLAKLIDEN	640232.9N 0180845.2E	591	2264	FLG W	Wind turbine
	14657	BLAKLIDEN	640103.3N 0180801.8E	591	2218	FLG W	Wind turbine
	14658	BLAKLIDEN	640318.7N 0180500.2E	591	2106	FLG W	Wind turbine
	14659	BLAKLIDEN	640309.1N 0180531.0E	591	2126	F R	Wind turbine
	14660	BLAKLIDEN	640056.7N 0180731.7E	591	2241	F R	Wind turbine
	14661	BLAKLIDEN	640313.7N 0180800.4E	591	2201	F R	Wind turbine
	14662	BLAKLIDEN	640157.8N 0180748.1E	591	2287	F R	Wind turbine
	14663	BLAKLIDEN	640123.6N 0180742.2E	591	2320	F R	Wind turbine
	14664	BLAKLIDEN	640133.3N 0180655.0E	591	2343	F R	Wind turbine
	14665	BLAKLIDEN	640248.9N 0180844.3E	591	2215	F R	Wind turbine
	14666	BLAKLIDEN	640546.8N 0180358.8E	591	2480	F R	Wind turbine
	14667	BLAKLIDEN	640538.0N 0180309.9E	591	2411	F R	Wind turbine
	14668	BLAKLIDEN	640555.9N 0180423.4E	591	2356	F R	Wind turbine
	14669	BLAKLIDEN	640535.0N 0180348.5E	591	2444	F R	Wind turbine
	14670	BLAKLIDEN	640542.7N 0180433.9E	591	2365	F R	Wind turbine
	14671	BLAKLIDEN	640525.0N 0180257.6E	591	2352	F R	Wind turbine
	14672	BLAKLIDEN	640519.5N 0180414.8E	591	2405	F R	Wind turbine
	14673	BLAKLIDEN	640553.2N 0180454.3E	591	2205	F R	Wind turbine
	14674	BLAKLIDEN	640516.6N 0180523.8E	591	2280	F R	Wind turbine
	14675	BLAKLIDEN	640507.4N 0180435.8E	591	2280	F R	Wind turbine
	14676	BLAKLIDEN	640525.9N 0180329.3E	591	2352	F R	Wind turbine
	14677	BLAKLIDEN	640549.1N 0180327.0E	591	2320	F R	Wind turbine
	14678	BLAKLIDEN	640536.6N 0180506.9E	591	2172	F R	Wind turbine
	14679	BLAKLIDEN	640532.4N 0180231.8E	591	2201	FLG W	Wind turbine
	14680	BLAKLIDEN	640507.6N 0180359.0E	591	2228	F R	Wind turbine
	14681	BLAKLIDEN	640603.3N 0180355.4E	591	2162	F R	Wind turbine
	14682	BLAKLIDEN	640453.7N 0180339.2E	591	2136	F R	Wind turbine
	14683	BLAKLIDEN	640457.0N 0180530.6E	591	2133	F R	Wind turbine
	14684	BLAKLIDEN	640608.0N 0180436.9E	591	2100	FLG W	Wind turbine
	14685	BLAKLIDEN	640515.4N 0180558.8E	591	2149	FLG W	Wind turbine
	14686	BLAKLIDEN	640459.4N 0180257.0E	591	2106	FLG W	Wind turbine
	14687	BLAKLIDEN	640513.8N 0180226.7E	591	2106	F R	Wind turbine
	14688	FÄBODBERGET	641403.1N 0182903.1E	591	2185	F R	Wind turbine
64N 19E	10415	VINDELN	641522.3N 0194628.2E (*)	492	1398	F R	Mast
	12491	VINDELN	641823.2N 0195612.8E (*)	607	1854	F R/FLG W	Wind turbine
	12492	VINDELN	641808.7N 0195642.3E (*)	607	1824	F R/FLG W	Wind turbine
	12493	VINDELN	641809.0N 0195800.6E (*)	607	1896	F R/FLG W	Wind turbine
	12494	VINDELN	641752.3N 0195831.1E (*)	607	1900	F R/FLG W	Wind turbine
	12495	VINDELN	641805.1N 0195927.4E (*)	607	1785	F R/FLG W	Wind turbine
	12497	VINDELN	641743.2N 0195914.2E (*)	607	1834	F R/FLG W	Wind turbine
	12498	VINDELN	641726.3N 0195855.5E (*)	607	1883	F R/FLG W	Wind turbine
	12499	VINDELN	641715.4N 0195928.9E (*)	607	1772	F R/FLG W	Wind turbine
	12500	VINDELN	641717.7N 0195753.6E (*)	607	1808	F R/FLG W	Wind turbine
	12501	VINDELN	641745.4N 0195711.6E (*)	607	1870	F R/FLG W	Wind turbine
	12502	VINDELN	641724.9N 0195714.6E (*)	607	1752	F R/FLG W	Wind turbine
	12503	VINDELN	641726.3N 0195632.4E (*)	607	1785	F R/FLG W	Wind turbine
	12504	VINDELN	641742.2N 0195622.5E (*)	607	1850	F R/FLG W	Wind turbine
	12505	VINDELN	641705.0N 0195710.5E (*)	607	1824	F R/FLG W	Wind turbine
	12506	VINDELN	641711.4N 0195601.1E (*)	607	1759	F R/FLG W	Wind turbine
	12507	VINDELN	641656.8N 0195523.6E (*)	607	1690	F R/FLG W	Wind turbine
	12508	VINDELN	641657.1N 0195441.4E (*)	607	1673	F R/FLG W	Wind turbine
	12509	VINDELN	641718.9N 0195523.1E (*)	607	1762	F R/FLG W	Wind turbine
	12510	VINDELN	641723.5N 0195426.9E (*)	607	1703	F R/FLG W	Wind turbine
	12511	VINDELN	641750.6N 0195518.6E (*)	607	1824	F R/FLG W	Wind turbine
	12512	VINDELN	641742.7N 0195440.5E (*)	607	1749	F R/FLG W	Wind turbine
	12513	VINDELN	641805.5N 0195450.8E (*)	607	1818	F R/FLG W	Wind turbine
	12514	VINDELN	641820.5N 0195414.8E (*)	607	1693	F R/FLG W	Wind turbine
64N 20E	541	SKELLEFTEÅ/PRÄSTFÄBOBERGET 1	644627.0N 0205708.4E	1070	1479	F R/FLG W	Mast
	985	BOLIDEN 2	645214.7N 0202140.7E	328	1071	F R	Mine hoist

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	9728	ROBERTSFORS	641046.8N 0205958.0E (*)	456	600	F R	Wind turbine
	9960	SÖRBYN	643629.8N 0202351.2E (*)	394	1296	F R	Mast
	10621	BOTSMARK	641553.8N 0201923.1E (*)	328	1270	F R	Mast
	11531	BOTSMARK	641816.1N 0202023.9E (*)	394	1444	F R	Mast
	11536	STORLIDEN	642445.9N 0201546.5E (*)	394	1437	F R	Mast
	11621	ROBERTSFORS	641013.0N 0205945.3E (*)	492	614	FLG R	Wind turbine
	11622	ROBERTSFORS	641029.6N 0205959.8E (*)	492	614	FLG R	Wind turbine
	11623	ROBERTSFORS	641013.3N 0205907.0E (*)	492	614	FLG R	Wind turbine
	12496	VINDELN	641739.4N 0200006.1E (*)	607	1739	F R/FLG W	Wind turbine
	14292	BOTSMARK	641833.7N 0201810.4E	656	1644	FLG W	Wind turbine
	14293	BOTSMARK	641815.8N 0201822.4E	656	1696	F R	Wind turbine
	14294	BOTSMARK	641802.9N 0201749.4E	656	1696	F R	Wind turbine
	14295	BOTSMARK	641759.8N 0201828.0E	656	1660	FLG W	Wind turbine
	14296	BOTSMARK	641726.8N 0201742.3E	656	1667	F R	Wind turbine
	14297	BOTSMARK	641726.9N 0201656.5E	656	1729	FLG W	Wind turbine
	14298	BOTSMARK	641712.4N 0201856.9E	656	1706	FLG W	Wind turbine
	14299	BOTSMARK	641711.8N 0201723.3E	656	1762	F R	Wind turbine
	14300	BOTSMARK	641711.8N 0201639.3E	656	1624	F R	Wind turbine
	14301	BOTSMARK	641703.9N 0201759.1E	656	1722	F R	Wind turbine
	14302	BOTSMARK	641657.6N 0201915.0E	656	1680	F R	Wind turbine
	14303	BOTSMARK	641653.0N 0201829.2E	656	1745	F R	Wind turbine
	14304	BOTSMARK	641655.8N 0201613.8E	656	1680	FLG W	Wind turbine
	14305	BOTSMARK	641652.7N 0201650.9E	656	1706	F R	Wind turbine
	14306	BOTSMARK	641648.6N 0201730.8E	656	1716	F R	Wind turbine
	14307	BOTSMARK	641639.1N 0201801.8E	656	1814	F R	Wind turbine
	14308	BOTSMARK	641636.6N 0201908.6E	656	1611	F R	Wind turbine
	14309	BOTSMARK	641640.0N 0201626.0E	656	1670	F R	Wind turbine
	14310	BOTSMARK	641636.5N 0201703.1E	656	1785	F R	Wind turbine
	14311	BOTSMARK	641626.3N 0201825.5E	656	1716	F R	Wind turbine
	14312	BOTSMARK	641625.4N 0201935.3E	656	1598	FLG W	Wind turbine
	14313	BOTSMARK	641627.0N 0201733.9E	656	1765	F R	Wind turbine
	14314	BOTSMARK	641618.0N 0201902.2E	656	1640	F R	Wind turbine
	14315	BOTSMARK	641614.5N 0201759.5E	656	1660	F R	Wind turbine
	14316	BOTSMARK	641611.6N 0201707.5E	656	1627	FLG W	Wind turbine
	14750	BLÅBERGSLIDEN	643732.4N 0201937.6E	656	1552	FLG W	Wind turbine
	14751	BLÅBERGSLIDEN	643714.6N 0202004.3E	656	1621	F R	Wind turbine
	14752	BLÅBERGSLIDEN	643651.1N 0202101.6E	656	1572	FLG W	Wind turbine
	14753	BLÅBERGSLIDEN	643626.4N 0202140.5E	656	1503	FLG W	Wind turbine
	14754	BLÅBERGSLIDEN	643612.2N 0202054.4E	656	1499	F R	Wind turbine
	14755	BLÅBERGSLIDEN	643553.3N 0202124.9E	656	1440	F R	Wind turbine
	14756	BLÅBERGSLIDEN	643515.6N 0202135.6E	656	1490	F R	Wind turbine
	14757	BLÅBERGSLIDEN	643501.1N 0202156.9E	656	1470	FLG W	Wind turbine
	14758	BLÅBERGSLIDEN	643507.9N 0202030.7E	656	1467	F R	Wind turbine
	14759	BLÅBERGSLIDEN	643518.8N 0201958.2E	656	1499	F R	Wind turbine
	14760	BLÅBERGSLIDEN	643452.8N 0201944.1E	656	1519	F R	Wind turbine
	14761	BLÅBERGSLIDEN	643510.6N 0201850.2E	656	1572	FLG W	Wind turbine
	14762	BLÅBERGSLIDEN	643609.4N 0201945.0E	656	1470	F R	Wind turbine
	14763	BLÅBERGSLIDEN	643634.2N 0201855.9E	656	1555	F R	Wind turbine
	14764	BLÅBERGSLIDEN	643637.5N 0201951.0E	656	1565	F R	Wind turbine
	14765	BLÅBERGSLIDEN	643656.5N 0202002.3E	656	1562	F R	Wind turbine
	14766	BLÅBERGSLIDEN	643640.1N 0201743.3E	656	1594	FLG W	Wind turbine
	14767	BLÅBERGSLIDEN	643651.2N 0201830.9E	656	1647	F R	Wind turbine
	14768	BLÅBERGSLIDEN	643655.0N 0201914.7E	656	1680	F R	Wind turbine
	14769	BLÅBERGSLIDEN	643710.2N 0201848.8E	656	1719	F R	Wind turbine
	14770	BLÅBERGSLIDEN	643718.9N 0201817.7E	656	1726	F R	Wind turbine
	14771	BLÅBERGSLIDEN	643730.1N 0201851.9E	656	1696	F R	Wind turbine
	14772	BLÅBERGSLIDEN	643746.9N 0201818.9E	656	1745	FLG W	Wind turbine
	14773	BLÅBERGSLIDEN	643551.8N 0201912.6E	656	1562	F R	Wind turbine
	14774	BLÅBERGSLIDEN	643535.4N 0201913.8E	656	1568	F R	Wind turbine
	14775	BLÅBERGSLIDEN	643440.8N 0202004.1E	656	1486	FLG W	Wind turbine
	14976	BURTRÄSK	642324.6N 0204530.7E	489	1112	F R	Mast
	15094	BOLIDEN	645936.1N 0201949.1E	656	1814	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
	15095	BOLIDEN	645946.1N 0202030.7E	656	1755	FLG W	Wind turbine
64N 21E	546	RÖNNSKÄRSVERKEN	644005.1N 0211628.8E (*)	338	354	-	Chimney
	9726	ROBERTSFORS	641042.1N 0210051.0E (*)	456	548	F R	Wind turbine
	9727	ROBERTSFORS	641101.5N 0210101.2E (*)	456	568	F R	Wind turbine
	9729	ROBERTSFORS	641058.3N 0210015.0E (*)	456	610	F R	Wind turbine
	9730	ROBERTSFORS	641109.1N 0210029.7E (*)	456	620	F R	Wind turbine
	9731	ROBERTSFORS	641118.7N 0210043.6E (*)	456	630	F R	Wind turbine
65N 15E	9510	GARDFJÄLLET	652411.6N 0155146.8E (*)	335	3550	F R	Mast
65N 16E	555	STORUMAN	650354.0N 0165626.2E	1070	2821	F R/FLG W	Mast
65N 17E	9440	STORBLAIKEN	651725.6N 0170842.8E (*)	486	2822	F R	Mast
	9559	ULJABUOUDA	655806.1N 0173637.5E (*)	410	2867	FLG R	Wind turbine
	9560	ULJABUOUDA	655817.9N 0173649.0E (*)	410	2844	FLG R	Wind turbine
	9561	ULJABUOUDA	655808.4N 0173718.2E (*)	410	2943	FLG R	Wind turbine
	9562	ULJABUOUDA	655806.3N 0173804.9E (*)	410	2940	FLG R	Wind turbine
	9866	ULJABUOUDA	655753.4N 0173624.6E (*)	410	2854	FLG R	Wind turbine
	9867	ULJABUOUDA	655743.6N 0173700.3E (*)	410	2871	FLG R	Wind turbine
	9868	ULJABUOUDA	655738.6N 0173634.7E (*)	410	2881	FLG R	Wind turbine
	9869	ULJABUOUDA	655753.9N 0173730.1E (*)	410	2910	FLG R	Wind turbine
	9870	ULJABUOUDA	655745.2N 0173759.6E (*)	410	2822	FLG R	Wind turbine
	9871	ULJABUOUDA	655753.1N 0173818.5E (*)	410	2822	FLG R	Wind turbine
	10716	STORBLAIKEN	651537.4N 0171851.8E (*)	489	2713	FLG R	Wind turbine
	10718	STORBLAIKEN	651550.8N 0171819.0E (*)	489	2835	FLG R	Wind turbine
	10719	STORBLAIKEN	651513.5N 0171757.8E (*)	489	2730	FLG R	Wind turbine
	10720	STORBLAIKEN	651600.2N 0171742.9E (*)	489	2785	FLG R	Wind turbine
	10721	STORBLAIKEN	651542.5N 0171739.5E (*)	489	2900	FLG R	Wind turbine
	10722	STORBLAIKEN	651522.6N 0171718.8E (*)	489	2890	FLG R	Wind turbine
	10723	STORBLAIKEN	651530.3N 0171810.2E (*)	489	2805	FLG R	Wind turbine
	10724	STORBLAIKEN	651552.3N 0171701.9E (*)	489	2802	FLG R	Wind turbine
	10725	STORBLAIKEN	651537.5N 0171645.0E (*)	489	2838	FLG R	Wind turbine
	10726	STORBLAIKEN	651520.5N 0171630.8E (*)	489	2759	FLG R	Wind turbine
	10727	STORBLAIKEN	651613.7N 0171614.9E (*)	489	2726	FLG R	Wind turbine
	10728	STORBLAIKEN	651554.8N 0171615.5E (*)	489	2835	FLG R	Wind turbine
	10729	STORBLAIKEN	651536.6N 0171556.4E (*)	489	2785	FLG R	Wind turbine
	10730	STORBLAIKEN	651622.7N 0171533.7E (*)	489	2717	FLG R	Wind turbine
	10731	STORBLAIKEN	651607.0N 0171531.7E (*)	489	2808	FLG R	Wind turbine
	10732	STORBLAIKEN	651550.1N 0171531.0E (*)	489	2851	FLG R	Wind turbine
	10733	STORBLAIKEN	651630.8N 0171453.3E (*)	489	2759	FLG R	Wind turbine
	10734	STORBLAIKEN	651614.8N 0171449.9E (*)	489	2841	FLG R	Wind turbine
	10735	STORBLAIKEN	651558.4N 0171451.2E (*)	489	2894	FLG R	Wind turbine
	10736	STORBLAIKEN	651541.0N 0171452.5E (*)	489	2782	FLG R	Wind turbine
	10737	STORBLAIKEN	651638.6N 0171412.6E (*)	489	2785	FLG R	Wind turbine
	10738	STORBLAIKEN	651622.1N 0171406.8E (*)	489	2841	FLG R	Wind turbine
	10739	STORBLAIKEN	651606.0N 0171410.4E (*)	489	2867	FLG R	Wind turbine
	10740	STORBLAIKEN	651628.6N 0171323.8E (*)	489	2874	FLG R	Wind turbine
	10741	STORBLAIKEN	651612.3N 0171306.8E (*)	489	2799	FLG R	Wind turbine
	10742	STORBLAIKEN	651642.3N 0171245.0E (*)	489	2841	FLG R	Wind turbine
	10743	STORBLAIKEN	651626.9N 0171231.3E (*)	489	2841	FLG R	Wind turbine
	10744	STORBLAIKEN	651638.4N 0171157.7E (*)	489	2802	FLG R	Wind turbine
	10745	STORBLAIKEN	651655.2N 0171118.6E (*)	489	2828	FLG R	Wind turbine
	10746	STORBLAIKEN	651714.6N 0171115.9E (*)	489	2802	FLG R	Wind turbine
	11302	STORBLAIKEN	651616.3N 0171740.0E (*)	489	2644	FLG R	Wind turbine
	11303	STORBLAIKEN	651624.5N 0171652.2E (*)	489	2628	FLG R	Wind turbine
	11304	STORBLAIKEN	651608.3N 0171659.6E (*)	489	2726	FLG R	Wind turbine
	11305	STORBLAIKEN	651632.2N 0171610.8E (*)	489	2631	FLG R	Wind turbine
	11306	STORBLAIKEN	651640.2N 0171530.3E (*)	489	2635	FLG R	Wind turbine
	11307	STORBLAIKEN	651651.7N 0171440.0E (*)	489	2638	FLG R	Wind turbine
	11308	STORBLAIKEN	651549.4N 0171413.0E (*)	489	2776	FLG R	Wind turbine
	11309	STORBLAIKEN	651701.0N 0171359.4E (*)	489	2644	FLG R	Wind turbine
	11310	STORBLAIKEN	651647.4N 0171330.4E (*)	489	2802	FLG R	Wind turbine
	11311	STORBLAIKEN	651557.4N 0171331.6E (*)	489	2769	FLG R	Wind turbine
	11312	STORBLAIKEN	651557.0N 0171245.6E (*)	489	2710	FLG R	Wind turbine
	11313	STORBLAIKEN	651657.7N 0171254.5E (*)	489	2746	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
	11314	STORBLAIKEN	651610.9N 0171220.7E (*)	489	2759	FLG R	Wind turbine
	11315	STORBLAIKEN	651654.3N 0171208.5E (*)	489	2782	FLG R	Wind turbine
	11316	STORBLAIKEN	651622.3N 0171140.5E (*)	489	2736	FLG R	Wind turbine
	11317	STORBLAIKEN	651714.4N 0171203.7E (*)	489	2766	FLG R	Wind turbine
	11318	STORBLAIKEN	651640.6N 0171058.2E (*)	489	2799	FLG R	Wind turbine
	11319	STORBLAIKEN	651728.8N 0171142.7E (*)	489	2769	FLG R	Wind turbine
	11320	STORBLAIKEN	651704.9N 0171040.0E (*)	489	2808	FLG R	Wind turbine
	11321	STORBLAIKEN	651650.4N 0171018.6E (*)	489	2769	FLG R	Wind turbine
	11322	STORBLAIKEN	651750.5N 0171115.0E (*)	489	2694	FLG R	Wind turbine
	11323	STORBLAIKEN	651735.1N 0171100.2E (*)	489	2789	FLG R	Wind turbine
	11324	STORBLAIKEN	651721.5N 0171034.9E (*)	489	2818	FLG R	Wind turbine
	11325	STORBLAIKEN	651705.3N 0170953.2E (*)	489	2776	FLG R	Wind turbine
	11326	STORBLAIKEN	651754.2N 0171028.7E (*)	489	2753	FLG R	Wind turbine
	11327	STORBLAIKEN	651750.5N 0170942.9E (*)	489	2795	FLG R	Wind turbine
	11328	STORBLAIKEN	651738.7N 0171014.9E (*)	489	2802	FLG R	Wind turbine
	11329	STORBLAIKEN	651732.3N 0170932.4E (*)	489	2808	FLG R	Wind turbine
	11330	STORBLAIKEN	651731.5N 0170845.8E (*)	489	2812	FLG R	Wind turbine
	11331	STORBLAIKEN	651716.3N 0170832.2E (*)	489	2808	FLG R	Wind turbine
	12273	BLAIKEN	651710.8N 0171322.4E (*)	476	2615	FLG R	Wind turbine
	12274	BLAIKEN	651721.9N 0171245.5E (*)	476	2625	FLG R	Wind turbine
	12275	BLAIKEN	651624.0N 0171052.6E (*)	476	2680	FLG R	Wind turbine
	12276	BLAIKEN	651744.0N 0171157.8E (*)	476	2615	FLG R	Wind turbine
	12277	BLAIKEN	651628.3N 0171004.2E (*)	476	2664	FLG R	Wind turbine
	12278	BLAIKEN	651642.3N 0170936.4E (*)	476	2707	FLG R	Wind turbine
	12279	BLAIKEN	651630.4N 0170913.4E (*)	476	2618	FLG R	Wind turbine
	12280	BLAIKEN	651809.9N 0171045.0E (*)	476	2635	FLG R	Wind turbine
	12281	BLAIKEN	651806.3N 0170958.6E (*)	476	2710	FLG R	Wind turbine
	12282	BLAIKEN	651717.9N 0170920.7E (*)	476	2785	FLG R	Wind turbine
	12283	BLAIKEN	651700.3N 0171024.5E (*)	476	2782	FLG R	Wind turbine
	12284	BLAIKEN	651646.5N 0170848.7E (*)	476	2687	FLG R	Wind turbine
	12285	BLAIKEN	651819.7N 0170932.3E (*)	476	2582	FLG R	Wind turbine
	12286	BLAIKEN	651800.0N 0170904.6E (*)	476	2720	FLG R	Wind turbine
	12287	BLAIKEN	651744.6N 0170858.5E (*)	476	2776	FLG R	Wind turbine
	12288	BLAIKEN	651659.7N 0170817.6E (*)	476	2713	FLG R	Wind turbine
	12289	BLAIKEN	651647.4N 0170756.3E (*)	476	2651	FLG R	Wind turbine
	12290	BLAIKEN	651630.8N 0170759.7E (*)	476	2648	FLG R	Wind turbine
	12291	BLAIKEN	651812.0N 0170834.3E (*)	476	2648	FLG R	Wind turbine
	12292	BLAIKEN	651754.9N 0170816.7E (*)	476	2746	FLG R	Wind turbine
	12293	BLAIKEN	651739.2N 0170805.0E (*)	476	2785	FLG R	Wind turbine
	12294	BLAIKEN	651724.0N 0170751.1E (*)	476	2746	FLG R	Wind turbine
	12295	BLAIKEN	651706.2N 0170733.7E (*)	476	2690	FLG R	Wind turbine
	12296	BLAIKEN	651643.0N 0170712.8E (*)	476	2648	FLG R	Wind turbine
	12297	BLAIKEN	651823.5N 0170801.9E (*)	476	2657	FLG R	Wind turbine
	12298	BLAIKEN	651807.4N 0170746.9E (*)	476	2756	FLG R	Wind turbine
	12299	BLAIKEN	651748.8N 0170729.9E (*)	476	2769	FLG R	Wind turbine
	12300	BLAIKEN	651735.4N 0170717.5E (*)	476	2740	FLG R	Wind turbine
	12301	BLAIKEN	651718.7N 0170702.0E (*)	476	2677	FLG R	Wind turbine
	12302	BLAIKEN	651658.3N 0170652.3E (*)	476	2625	FLG R	Wind turbine
	12464	GRANBERGET	651755.6N 0171508.5E (*)	489	2572	FLG R	Wind turbine
	12465	GRANBERGET	651806.6N 0171509.6E (*)	489	2543	FLG R	Wind turbine
	12466	GRANBERGET	651748.6N 0171447.8E (*)	489	2566	FLG R	Wind turbine
	12467	GRANBERGET	651740.9N 0171425.3E (*)	489	2523	FLG R	Wind turbine
	12468	GRANBERGET	651754.4N 0171407.1E (*)	489	2552	FLG R	Wind turbine
	12469	GRANBERGET	651803.6N 0171414.5E (*)	489	2543	FLG R	Wind turbine
	12470	GRANBERGET	651823.6N 0171517.9E (*)	489	2530	FLG R	Wind turbine
	12471	GRANBERGET	651831.8N 0171535.4E (*)	489	2605	FLG R	Wind turbine
	12472	GRANBERGET	651841.2N 0171505.0E (*)	489	2589	FLG R	Wind turbine
	12823	BLAIKEN	651738.7N 0171251.5E (*)	476	2546	FLG R	Wind turbine
	12824	BLAIKEN	651800.7N 0171221.7E (*)	476	2552	FLG R	Wind turbine
	12825	BLAIKEN	651812.0N 0171131.7E (*)	476	2552	FLG R	Wind turbine
	12826	BLAIKEN	651823.2N 0171020.8E (*)	476	2585	FLG R	Wind turbine
	12827	BLAIKEN	651837.5N 0170954.2E (*)	476	2556	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
	12828	BLAIKEN	651828.0N 0170842.4E (*)	476	2615	FLG R	Wind turbine
	12829	BLAIKEN	651855.7N 0171344.6E (*)	476	2598	FLG R	Wind turbine
	12830	BLAIKEN	651848.9N 0171310.0E (*)	476	2579	FLG R	Wind turbine
	12831	BLAIKEN	651836.2N 0171240.3E (*)	476	2539	FLG R	Wind turbine
65N 18E	558	ARVIDSJAUR/JULTRÄSK	653200.0N 0185921.5E	1060	3512	F R/FLG W	Mast
	10051	JOKKMOKKSLIDEN	651636.5N 0185724.0E (*)	489	2162	FLG R	Wind turbine
	10052	JOKKMOKKSLIDEN	651648.1N 0185745.4E (*)	489	2146	FLG R	Wind turbine
	10053	JOKKMOKKSLIDEN	651658.6N 0185716.8E (*)	489	2165	FLG R	Wind turbine
	10054	JOKKMOKKSLIDEN	651708.1N 0185743.0E (*)	489	2133	FLG R	Wind turbine
	10168	KÅTALIDEN	650651.5N 0183936.5E (*)	344	1952	F R	Mast
	10170	KÅTALIDEN	650650.1N 0184953.5E (*)	344	1873	F R	Mast
	10195	HORNBERGET	650505.7N 0183559.1E (*)	410	2047	FLG R	Wind turbine
	10196	HORNBERGET	650512.4N 0183616.2E (*)	410	2123	FLG R	Wind turbine
	10197	HORNBERGET	650520.3N 0183643.5E (*)	410	2231	FLG R	Wind turbine
	10198	HORNBERGET	650529.1N 0183653.1E (*)	410	2244	FLG R	Wind turbine
	10199	HORNBERGET	650531.3N 0183715.6E (*)	410	2156	FLG R	Wind turbine
	10348	STORLIDEN	651244.0N 0185514.5E (*)	489	2146	FLG R	Wind turbine
	10349	STORLIDEN	651301.5N 0185521.5E (*)	489	2093	FLG R	Wind turbine
	10350	STORLIDEN	651252.2N 0185444.9E (*)	489	2047	FLG R	Wind turbine
	10351	STORLIDEN	651250.5N 0185547.6E (*)	489	2077	FLG R	Wind turbine
	10352	STORLIDEN	651250.9N 0185403.6E (*)	489	1916	FLG R	Wind turbine
	10353	STORLIDEN	651304.4N 0185344.1E (*)	489	1896	FLG R	Wind turbine
	10354	STORLIDEN	651312.7N 0185414.0E (*)	489	1936	FLG R	Wind turbine
	10355	STORLIDEN	651307.1N 0185446.7E (*)	489	2047	FLG R	Wind turbine
	10412	NÅDAGUBBLIDEN	650655.7N 0184608.9E (*)	354	1883	F R	Mast
	10432	NÅDAGUBBLIDEN	650628.4N 0183925.1E (*)	492	2087	FLG R	Wind turbine
	10433	NÅDAGUBBLIDEN	650613.3N 0183955.2E (*)	492	2054	FLG R	Wind turbine
	10434	NÅDAGUBBLIDEN	650634.3N 0184033.1E (*)	492	2087	FLG R	Wind turbine
	10435	NÅDAGUBBLIDEN	650656.5N 0184018.6E (*)	492	2093	FLG R	Wind turbine
	10436	NÅDAGUBBLIDEN	650644.7N 0184057.4E (*)	492	2070	FLG R	Wind turbine
	10437	NÅDAGUBBLIDEN	650657.1N 0184130.5E (*)	492	2024	FLG R	Wind turbine
	10438	NÅDAGUBBLIDEN	650702.9N 0184218.5E (*)	492	2018	FLG R	Wind turbine
	10439	NÅDAGUBBLIDEN	650641.7N 0184238.8E (*)	492	2037	FLG R	Wind turbine
	10440	NÅDAGUBBLIDEN	650651.6N 0184310.5E (*)	492	2051	FLG R	Wind turbine
	10441	NÅDAGUBBLIDEN	650700.7N 0184340.4E (*)	492	2064	FLG R	Wind turbine
	10442	NÅDAGUBBLIDEN	650653.0N 0184422.9E (*)	492	2113	FLG R	Wind turbine
	10443	NÅDAGUBBLIDEN	650639.6N 0184454.8E (*)	492	2159	FLG R	Wind turbine
	10444	NÅDAGUBBLIDEN	650624.7N 0184535.0E (*)	492	2123	FLG R	Wind turbine
	10445	NÅDAGUBBLIDEN	650649.5N 0184600.0E (*)	492	2037	FLG R	Wind turbine
	10446	NÅDAGUBBLIDEN	650652.1N 0184711.4E (*)	492	2018	FLG R	Wind turbine
	10447	NÅDAGUBBLIDEN	650656.1N 0184808.3E (*)	492	1998	FLG R	Wind turbine
	10448	NÅDAGUBBLIDEN	650640.0N 0184823.1E (*)	492	2024	FLG R	Wind turbine
	10449	NÅDAGUBBLIDEN	650648.5N 0184909.5E (*)	492	2021	FLG R	Wind turbine
	10450	NÅDAGUBBLIDEN	650627.3N 0185045.7E (*)	492	2047	FLG R	Wind turbine
	10451	NÅDAGUBBLIDEN	650605.0N 0185111.8E (*)	492	2018	FLG R	Wind turbine
	10452	NÅDAGUBBLIDEN	650645.0N 0183944.6E (*)	492	2096	FLG R	Wind turbine
	10453	NÅDAGUBBLIDEN	650645.2N 0185006.5E (*)	492	2034	FLG R	Wind turbine
	10488	HEMLIDEN	651526.3N 0185640.8E (*)	489	2021	FLG R	Wind turbine
	10489	HEMLIDEN	651534.9N 0185710.4E (*)	489	2008	FLG R	Wind turbine
	10490	JOKKMOKKSLIDEN	651624.3N 0185704.0E (*)	489	2218	FLG R	Wind turbine
	10491	JOKKMOKKSLIDEN	651713.8N 0185823.4E (*)	489	2080	FLG R	Wind turbine
	10492	TALLBERGET	651743.4N 0185737.9E (*)	489	2067	FLG R	Wind turbine
	10493	TALLBERGET	651747.5N 0185659.9E (*)	489	2093	FLG R	Wind turbine
	10973	ÅMLIDEN	650246.3N 0185830.1E (*)	476	1873	FLG R	Wind turbine
	10974	ÅMLIDEN	650345.3N 0185845.2E (*)	476	1916	FLG R	Wind turbine
	10975	ÅMLIDEN	650355.1N 0185920.9E (*)	476	1932	FLG R	Wind turbine
	10976	ÅMLIDEN	650255.0N 0185854.7E (*)	476	1880	FLG R	Wind turbine
	10982	ÅMLIDEN	650401.7N 0185943.5E (*)	476	1893	FLG R	Wind turbine
	10983	ÅMLIDEN	650330.7N 0185959.1E (*)	459	2018	FLG R	Wind turbine
	10984	ÅMLIDEN	650220.3N 0185912.9E (*)	476	1985	FLG R	Wind turbine
	10985	ÅMLIDEN	650229.5N 0185832.6E (*)	476	1909	FLG R	Wind turbine
	10986	ÅMLIDEN	650210.9N 0185818.5E (*)	476	1919	FLG R	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	10987	ÅMLIDEN	650242.9N 0185937.6E (*)	476	2070	FLG R	Wind turbine
	10988	ÅMLIDEN	650257.4N 0185953.5E (*)	476	2070	FLG R	Wind turbine
65N 19E	10468	ÅMLIDEN	650240.2N 0190023.1E (*)	335	2093	FLG R	Wind turbine
	10964	ÅMLIDEN	650353.4N 0190044.9E (*)	476	1903	FLG R	Wind turbine
	10965	ÅMLIDEN	650357.8N 0190114.9E (*)	476	1877	FLG R	Wind turbine
	10966	ÅMLIDEN	650403.1N 0190139.0E (*)	476	1867	FLG R	Wind turbine
	10967	ÅMLIDEN	650415.4N 0190205.0E (*)	476	1854	FLG R	Wind turbine
	10968	ÅMLIDEN	650425.9N 0190221.3E (*)	476	1867	FLG R	Wind turbine
	10969	ÅMLIDEN	650353.2N 0190349.6E (*)	476	1926	FLG R	Wind turbine
	10970	ÅMLIDEN	650312.3N 0190236.0E (*)	476	1962	FLG R	Wind turbine
	10971	ÅMLIDEN	650325.0N 0190326.9E (*)	476	1883	FLG R	Wind turbine
	10972	ÅMLIDEN	650337.8N 0190344.9E (*)	476	1919	FLG R	Wind turbine
	10977	ÅMLIDEN	650340.4N 0190113.8E (*)	476	1909	FLG R	Wind turbine
	10978	ÅMLIDEN	650353.1N 0190233.4E (*)	476	1880	FLG R	Wind turbine
	10979	ÅMLIDEN	650410.2N 0190302.5E (*)	476	1919	FLG R	Wind turbine
	10980	ÅMLIDEN	650319.1N 0190020.2E (*)	476	2024	FLG R	Wind turbine
	10981	ÅMLIDEN	650339.1N 0190256.1E (*)	476	1909	FLG R	Wind turbine
	10989	ÅMLIDEN	650315.1N 0190012.4E (*)	476	2008	FLG R	Wind turbine
	10990	ÅMLIDEN	650301.2N 0190032.7E (*)	476	2054	FLG R	Wind turbine
	10991	ÅMLIDEN	650315.5N 0190053.7E (*)	476	1982	FLG R	Wind turbine
	10992	ÅMLIDEN	650252.3N 0190058.2E (*)	476	2028	FLG R	Wind turbine
	12139	BRÄNNLIDEN	651132.2N 0195622.5E (*)	410	1745	F R	Mast
	14112	JÖRN	651244.0N 0195531.3E (*)	666	2060	FLG W	Wind turbine
	14113	JÖRN	651230.8N 0195549.9E (*)	666	2083	FLG W	Wind turbine
	14114	JÖRN	651219.4N 0195619.5E (*)	722	2060	F R	Wind turbine
	14115	JÖRN	651204.1N 0195600.4E (*)	722	2083	FLG W	Wind turbine
	14116	JÖRN	651214.2N 0195536.4E (*)	722	2044	F R	Wind turbine
	14117	JÖRN	651137.6N 0195610.3E (*)	722	2044	F R	Wind turbine
	14118	JÖRN	651128.4N 0195644.2E (*)	722	2054	FLG W	Wind turbine
	14119	JÖRN	651114.8N 0195637.2E (*)	722	2044	F R	Wind turbine
	14120	JÖRN	651103.4N 0195657.1E (*)	722	1975	F R	Wind turbine
	14121	JÖRN	651052.6N 0195721.2E (*)	722	1939	FLG W	Wind turbine
65N 20E	9322	HULTET	652710.0N 0203049.9E (*)	489	1732	FLG R	Wind turbine
	9323	HULTET	652700.6N 0203106.8E (*)	489	1736	FLG R	Wind turbine
	9809	HULTET	652622.7N 0203117.9E (*)	489	1677	FLG R	Wind turbine
	9810	HULTET	652615.3N 0203147.2E (*)	489	1660	FLG R	Wind turbine
	9815	HULTET	652630.9N 0203055.2E (*)	489	1673	FLG R	Wind turbine
	9842	HULTET	652702.4N 0202958.1E (*)	489	1660	FLG R	Wind turbine
	9843	HULTET	652652.1N 0203016.7E (*)	489	1686	FLG R	Wind turbine
	9844	HULTET	652641.1N 0203037.6E (*)	489	1683	FLG R	Wind turbine
	9845	HULTET	652650.6N 0203125.4E (*)	587	1844	FLG W	Wind turbine
	9846	HULTET	652643.4N 0203154.3E (*)	489	1706	FLG R	Wind turbine
	9847	HULTET	652633.3N 0203218.7E (*)	489	1693	FLG R	Wind turbine
	9848	HULTET	652627.6N 0203235.8E (*)	587	1781	FLG W	Wind turbine
	11230	FJÄLLBODA	650019.0N 0201931.3E (*)	335	1430	F R	Mast
	11384	KROKATRÄSKLIDEN	652907.4N 0204858.8E (*)	394	1230	F R	Mast
	11389	SKOGBERGSLIDEN	652135.8N 0205537.2E (*)	604	1385	FLG W	Wind turbine
	11390	SKOGBERGSLIDEN	652210.0N 0205530.1E (*)	604	1509	F R	Wind turbine
	11391	SKOGBERGSLIDEN	652217.1N 0205604.0E (*)	604	1421	F R	Wind turbine
	11392	SKOGBERGSLIDEN	652232.0N 0205543.6E (*)	604	1460	F R	Wind turbine
	11393	SKOGBERGSLIDEN	652244.4N 0205514.6E (*)	604	1555	F R	Wind turbine
	11394	SKOGBERGSLIDEN	652253.1N 0205444.6E (*)	604	1591	F R	Wind turbine
	11395	SKOGBERGSLIDEN	652221.6N 0205458.7E (*)	604	1509	F R	Wind turbine
	11448	SKOGBERGSLIDEN	652058.8N 0205946.6E (*)	604	1135	FLG W	Wind turbine
	11449	SKOGBERGSLIDEN	652058.0N 0205853.1E (*)	604	1230	F R	Wind turbine
	11450	SKOGBERGSLIDEN	652103.1N 0205808.3E (*)	604	1296	F R	Wind turbine
	11451	SKOGBERGSLIDEN	652105.0N 0205724.6E (*)	604	1312	FLG W	Wind turbine
	11452	SKOGBERGSLIDEN	652119.4N 0205736.2E (*)	604	1335	F R	Wind turbine
	11453	SKOGBERGSLIDEN	652154.8N 0205608.7E (*)	604	1450	F R	Wind turbine
	11454	SKOGBERGSLIDEN	652152.4N 0205529.5E (*)	604	1473	F R	Wind turbine
	11455	SKOGBERGSLIDEN	652112.9N 0205655.5E (*)	604	1306	F R	Wind turbine
	11456	SKOGBERGSLIDEN	652127.3N 0205703.4E (*)	604	1394	FLG W	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	11457	SKOGBERGSLIDEN	652137.1N 0205626.7E (*)	604	1437	FLG W	Wind turbine
	11458	SKOGBERGSLIDEN	652112.9N 0205553.1E (*)	604	1312	FLG W	Wind turbine
	11491	SKOGBERGSLIDEN	652256.5N 0205409.2E (*)	604	1572	F R	Wind turbine
	11492	SKOGBERGSLIDEN	652307.9N 0205432.5E (*)	604	1572	F R	Wind turbine
	11493	SKOGBERGSLIDEN	652322.9N 0205423.5E (*)	604	1506	FLG W	Wind turbine
	11494	SKOGBERGSLIDEN	652313.0N 0205357.2E (*)	604	1549	F R	Wind turbine
	11495	SKOGBERGSLIDEN	652325.4N 0205313.7E (*)	604	1522	F R	Wind turbine
	11496	SKOGBERGSLIDEN	652252.2N 0205551.8E (*)	604	1496	FLG W	Wind turbine
	11497	SKOGBERGSLIDEN	652314.9N 0205504.9E (*)	604	1516	F R	Wind turbine
	11498	SKOGBERGSLIDEN	652237.0N 0205422.0E (*)	604	1877	F R	Wind turbine
	11499	SKOGBERGSLIDEN	652245.9N 0205337.5E (*)	604	1565	F R	Wind turbine
	11500	SKOGBERGSLIDEN	652250.5N 0205302.4E (*)	604	1545	FLG W	Wind turbine
	11501	SKOGBERGSLIDEN	652304.4N 0205318.6E (*)	604	1552	F R	Wind turbine
	11591	SKOGBERGSLIDEN	652300.1N 0205237.1E (*)	604	1506	F R	Wind turbine
	11592	SKOGBERGSLIDEN	652315.7N 0205242.8E (*)	604	1562	F R	Wind turbine
	11593	SKOGBERGSLIDEN	652328.2N 0205216.5E (*)	604	1509	F R	Wind turbine
	11594	SKOGBERGSLIDEN	652324.8N 0205135.9E (*)	604	1467	FLG W	Wind turbine
	11648	SKOGBERGSLIDEN	652300.2N 0205520.2E (*)	604	1604	F R/FLG W	Wind turbine
	11649	SKOGBERGSLIDEN	652316.0N 0205057.5E (*)	604	1457	F R/FLG W	Wind turbine
	11650	SKOGBERGSLIDEN	652326.9N 0205036.8E (*)	604	1430	F R/FLG W	Wind turbine
	12868	MYRHEDEN	652101.8N 0200602.6E (*)	394	1775	F R	Mast
	12875	ALDERMYRBERGET	650805.8N 0200546.1E (*)	489	1860	F R	Mast
	12909	STORLIDEN	652528.2N 0203932.6E (*)	623	1864	F R	Wind turbine
	12913	STORLIDEN	652427.2N 0204025.3E (*)	623	1896	F R	Wind turbine
	12914	STORLIDEN	652556.4N 0203943.6E (*)	623	1775	F R	Wind turbine
	12941	STORLIDEN	652554.8N 0203840.4E (*)	623	1821	F R	Wind turbine
	12942	STORLIDEN	652543.0N 0203907.4E (*)	623	1831	F R	Wind turbine
	12943	STORLIDEN	652540.0N 0204006.0E (*)	623	1847	F R	Wind turbine
	12944	STORLIDEN	652453.2N 0203929.8E (*)	623	1919	F R	Wind turbine
	12945	STORLIDEN	652412.7N 0204059.0E (*)	623	1860	F R	Wind turbine
	12946	STORLIDEN	652548.9N 0204118.6E (*)	623	1831	F R	Wind turbine
	12954	STORLIDEN	652402.9N 0204126.2E (*)	623	1831	F R	Wind turbine
	12981	STORLIDEN	652438.7N 0203951.9E (*)	623	1900	F R	Wind turbine
	12982	STORLIDEN	652602.0N 0203634.6E (*)	623	1900	F R	Wind turbine
	12983	STORLIDEN	652551.0N 0203729.4E (*)	623	1864	F R	Wind turbine
	12984	STORLIDEN	652506.3N 0203808.1E (*)	623	1857	F R	Wind turbine
	12985	STORLIDEN	652537.0N 0203708.0E (*)	623	1860	F R	Wind turbine
	12986	STORLIDEN	652453.5N 0203832.2E (*)	623	1857	F R	Wind turbine
	12987	STORLIDEN	652442.1N 0203900.0E (*)	623	1867	F R	Wind turbine
	12988	STORLIDEN	652540.9N 0203803.4E (*)	623	1854	F R	Wind turbine
	12989	STORLIDEN	652508.0N 0203909.4E (*)	623	1883	F R	Wind turbine
	12990	STORLIDEN	652523.2N 0203833.9E (*)	623	1854	F R	Wind turbine
	13004	LÅNGTRÄSK	652704.3N 0202349.0E (*)	586	986	FLG W	Wind turbine
	13005	LÅNGTRÄSK	652728.7N 0202302.9E (*)	586	1027	FLG W	Wind turbine
	13120	STORLIDEN	652430.0N 0203833.1E (*)	623	1824	F R	Wind turbine
	13122	STORLIDEN	652509.5N 0203729.6E (*)	623	1834	F R	Wind turbine
	13123	STORLIDEN	652628.4N 0203910.0E (*)	623	1690	F R	Wind turbine
	13124	STORLIDEN	652613.4N 0203810.2E (*)	623	1814	F R	Wind turbine
	13125	STORLIDEN	652612.9N 0203906.5E (*)	623	1736	F R	Wind turbine
	13140	SVARTLIDEN	652044.9N 0204609.8E (*)	656	1572	F R	Wind turbine
	13141	SVARTLIDEN	652054.1N 0204512.0E (*)	656	1545	F R	Wind turbine
	13142	SVARTLIDEN	652104.3N 0204426.3E (*)	656	1555	F R	Wind turbine
	13143	SVARTLIDEN	652111.3N 0204505.1E (*)	656	1713	F R	Wind turbine
	13144	SVARTLIDEN	652120.9N 0204431.1E (*)	656	1686	F R	Wind turbine
	13145	SVARTLIDEN	652130.9N 0204357.2E (*)	656	1690	FLG W	Wind turbine
	13146	SVARTLIDEN	652142.6N 0204432.6E (*)	656	1801	FLG W	Wind turbine
	13147	SVARTLIDEN	652128.8N 0204508.4E (*)	656	1755	F R	Wind turbine
	13148	SVARTLIDEN	652118.1N 0204543.2E (*)	656	1739	F R	Wind turbine
	13149	SVARTLIDEN	652111.0N 0204624.1E (*)	656	1693	F R	Wind turbine
	13150	SVARTLIDEN	652054.0N 0204647.0E (*)	656	1709	FLG W	Wind turbine
	13151	SVARTLIDEN	652129.6N 0204311.7E (*)	656	1604	F R	Wind turbine
	13152	SVARTLIDEN	652132.6N 0204229.2E (*)	656	1588	F R	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13153	SVARTLIDEN	652049.6N 0205039.9E (*)	656	1463	FLG W	Wind turbine
	13154	SVARTLIDEN	652100.9N 0205013.5E (*)	656	1532	F R	Wind turbine
	13155	SVARTLIDEN	652118.2N 0205040.1E (*)	656	1542	F R	Wind turbine
	13156	SVARTLIDEN	652115.6N 0204954.0E (*)	656	1581	F R	Wind turbine
	13157	SVARTLIDEN	652123.9N 0204911.9E (*)	656	1654	F R	Wind turbine
	13158	SVARTLIDEN	652133.3N 0205019.7E (*)	656	1594	F R	Wind turbine
	13159	SVARTLIDEN	652147.3N 0204959.4E (*)	656	1631	F R	Wind turbine
	13160	SVARTLIDEN	652141.5N 0204917.1E (*)	656	1677	F R	Wind turbine
	13161	SVARTLIDEN	652142.7N 0204834.3E (*)	656	1706	F R	Wind turbine
	13162	SVARTLIDEN	652157.6N 0204814.0E (*)	656	1680	F R	Wind turbine
	13163	SVARTLIDEN	652300.3N 0204758.3E (*)	656	1627	F R	Wind turbine
	13164	SVARTLIDEN	652300.8N 0204837.3E (*)	656	1594	F R	Wind turbine
	13165	SVARTLIDEN	652316.2N 0204816.4E (*)	656	1562	F R	Wind turbine
	13166	SVARTLIDEN	652311.8N 0204913.5E (*)	656	1529	F R	Wind turbine
	13167	SVARTLIDEN	652248.9N 0204907.7E (*)	656	1591	F R	Wind turbine
	13168	SVARTLIDEN	652250.6N 0204947.8E (*)	656	1545	F R	Wind turbine
	13169	SVARTLIDEN	652304.9N 0205007.8E (*)	656	1467	F R	Wind turbine
	13170	SVARTLIDEN	652234.6N 0204938.1E (*)	656	1598	F R	Wind turbine
	13171	SVARTLIDEN	652245.6N 0205027.0E (*)	656	1539	F R	Wind turbine
	13172	SVARTLIDEN	652239.5N 0205103.6E (*)	656	1509	F R	Wind turbine
	13173	SVARTLIDEN	652219.2N 0204954.9E (*)	656	1667	F R	Wind turbine
	13174	SVARTLIDEN	652203.1N 0204943.1E (*)	656	1663	F R	Wind turbine
	13175	SVARTLIDEN	652227.4N 0205030.6E (*)	656	1617	F R	Wind turbine
	13176	SVARTLIDEN	652219.5N 0205106.2E (*)	656	1673	F R	Wind turbine
	13177	SVARTLIDEN	652206.0N 0205129.6E (*)	656	1608	F R	Wind turbine
	13178	SVARTLIDEN	652200.2N 0205210.3E (*)	656	1499	F R	Wind turbine
	13179	SVARTLIDEN	652204.8N 0205028.1E (*)	656	1683	FLG W	Wind turbine
	13180	SVARTLIDEN	652153.9N 0205100.9E (*)	656	1693	F R	Wind turbine
	13181	SVARTLIDEN	652136.2N 0205100.6E (*)	656	1696	FLG W	Wind turbine
	13182	SVARTLIDEN	652123.1N 0205129.6E (*)	656	1644	F R	Wind turbine
	13183	SVARTLIDEN	652113.5N 0205202.9E (*)	656	1555	F R	Wind turbine
	13184	SVARTLIDEN	652054.3N 0205237.3E (*)	656	1506	F R	Wind turbine
	13185	SVARTLIDEN	652100.4N 0205137.4E (*)	656	1512	F R	Wind turbine
	13186	SVARTLIDEN	652103.4N 0205057.6E (*)	656	1496	FLG W	Wind turbine
	13187	SVARTLIDEN	652143.0N 0205141.7E (*)	656	1617	F R	Wind turbine
	13188	SVARTLIDEN	652130.7N 0205222.8E (*)	656	1512	F R	Wind turbine
	13189	SVARTLIDEN	652116.6N 0205244.7E (*)	656	1483	F R	Wind turbine
	13190	SVARTLIDEN	652126.7N 0205319.2E (*)	656	1378	F R	Wind turbine
	13191	SVARTLIDEN	652105.8N 0205313.0E (*)	656	1437	F R	Wind turbine
	13192	SVARTLIDEN	652214.9N 0205303.7E (*)	656	1411	F R	Wind turbine
	13193	SVARTLIDEN	652232.3N 0205251.5E (*)	656	1440	F R	Wind turbine
	13194	SVARTLIDEN	652207.1N 0205342.7E (*)	656	1497	F R	Wind turbine
	13195	SVARTLIDEN	652158.9N 0205422.9E (*)	656	1512	F R	Wind turbine
	13196	SVARTLIDEN	652143.2N 0205450.3E (*)	656	1437	F R	Wind turbine
	13197	SVARTLIDEN	652217.4N 0205414.4E (*)	656	1555	F R	Wind turbine
	13198	SVARTLIDEN	652227.4N 0205337.9E (*)	656	1526	F R	Wind turbine
	13199	SVARTLIDEN	652150.1N 0205341.5E (*)	656	1417	FLG W	Wind turbine
	13324	SVARTLIDEN	652316.2N 0204726.5E (*)	656	1575	F R	Wind turbine
	13325	SVARTLIDEN	652331.2N 0204744.9E (*)	656	1532	FLG W	Wind turbine
	13330	SVARTLIDEN	652208.3N 0204740.0E (*)	656	1663	F R	Wind turbine
	13331	SVARTLIDEN	652220.3N 0204710.4E (*)	656	1644	F R	Wind turbine
	13332	SVARTLIDEN	652207.6N 0204850.9E (*)	656	1693	F R	Wind turbine
	13333	SVARTLIDEN	652225.5N 0204854.2E (*)	656	1680	F R	Wind turbine
	13334	SVARTLIDEN	652236.6N 0204658.0E (*)	656	1650	F R	Wind turbine
	13386	STORLIDEN	652313.0N 0204019.5E (*)	656	1759	FLG W	Wind turbine
	13387	STORLIDEN	652312.2N 0204105.8E (*)	656	1844	F R	Wind turbine
	13389	STORLIDEN	652328.3N 0204050.3E (*)	656	1877	F R	Wind turbine
	13390	STORLIDEN	652340.8N 0204019.4E (*)	656	1857	F R	Wind turbine
	13391	STORLIDEN	652353.5N 0203952.9E (*)	656	1854	F R	Wind turbine
	13392	STORLIDEN	652323.3N 0204149.4E (*)	656	1867	F R	Wind turbine
	13393	STORLIDEN	652358.7N 0203913.3E (*)	656	1795	FLG W	Wind turbine
	13394	STORLIDEN	652417.1N 0203948.4E (*)	656	1900	F R	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13395	STORLIDEN	652406.2N 0204020.5E (*)	656	1900	F R	Wind turbine
	13396	STORLIDEN	652353.8N 0204049.4E (*)	656	1893	F R	Wind turbine
	13397	STORLIDEN	652343.9N 0204124.7E (*)	656	1867	F R	Wind turbine
	13398	STORLIDEN	652348.7N 0204204.3E (*)	656	1814	F R	Wind turbine
	13399	STORLIDEN	652417.9N 0204145.4E (*)	656	1811	F R	Wind turbine
	13400	STORLIDEN	652406.5N 0204215.6E (*)	656	1777	F R	Wind turbine
	13401	STORLIDEN	652354.0N 0204243.6E (*)	656	1760	F R	Wind turbine
	13402	STORLIDEN	652350.5N 0204342.3E (*)	656	1695	FLG W	Wind turbine
	13403	STORLIDEN	652407.0N 0204333.6E (*)	656	1678	F R	Wind turbine
	13404	STORLIDEN	652412.7N 0204255.4E (*)	656	1713	F R	Wind turbine
	13405	STORLIDEN	652423.1N 0204223.6E (*)	656	1737	F R	Wind turbine
	13406	STORLIDEN	652437.5N 0204152.1E (*)	656	1765	F R	Wind turbine
	13407	STORLIDEN	652445.4N 0204116.5E (*)	656	1821	F R	Wind turbine
	13408	STORLIDEN	652454.3N 0204042.1E (*)	656	1854	F R	Wind turbine
	13409	STORLIDEN	652506.2N 0204013.3E (*)	656	1901	F R	Wind turbine
	13410	STORLIDEN	652523.8N 0204017.5E (*)	656	1860	FLG W	Wind turbine
	13411	STORLIDEN	652513.5N 0204051.9E (*)	656	1818	F R	Wind turbine
	13412	STORLIDEN	652506.4N 0204128.7E (*)	656	1778	F R	Wind turbine
	13413	STORLIDEN	652540.0N 0204048.4E (*)	656	1813	F R	Wind turbine
	13414	STORLIDEN	652525.6N 0204141.7E (*)	656	1747	F R	Wind turbine
	13415	STORLIDEN	652456.9N 0204247.5E (*)	656	1693	F R	Wind turbine
	13416	STORLIDEN	652505.6N 0204212.3E (*)	656	1719	F R	Wind turbine
	13417	STORLIDEN	652436.3N 0204254.3E (*)	656	1691	F R	Wind turbine
	13418	STORLIDEN	652440.2N 0204339.1E (*)	656	1650	F R	Wind turbine
	13419	STORLIDEN	652423.8N 0204329.5E (*)	656	1678	F R	Wind turbine
	13420	STORLIDEN	652427.5N 0204409.0E (*)	656	1631	F R	Wind turbine
	13421	STORLIDEN	652445.1N 0204418.6E (*)	656	1599	F R	Wind turbine
	13422	STORLIDEN	652421.7N 0204445.9E (*)	656	1594	F R	Wind turbine
	13423	STORLIDEN	652411.1N 0204415.1E (*)	656	1642	F R	Wind turbine
	13424	STORLIDEN	652353.5N 0204436.0E (*)	656	1637	F R	Wind turbine
	13425	STORLIDEN	652406.5N 0204501.4E (*)	656	1604	F R	Wind turbine
	13426	STORLIDEN	652402.5N 0204540.1E (*)	656	1562	F R	Wind turbine
	13427	STORLIDEN	652422.9N 0204532.8E (*)	656	1559	F R	Wind turbine
	13428	STORLIDEN	652422.1N 0204612.9E (*)	656	1522	F R	Wind turbine
	13429	STORLIDEN	652438.8N 0204613.1E (*)	656	1507	FLG W	Wind turbine
	13430	STORLIDEN	652452.6N 0204547.6E (*)	656	1542	F R	Wind turbine
	13431	STORLIDEN	652436.7N 0204509.1E (*)	656	1577	F R	Wind turbine
	13432	STORLIDEN	652453.6N 0204507.0E (*)	656	1601	F R	Wind turbine
	13433	STORLIDEN	652504.9N 0204433.1E (*)	656	1652	F R	Wind turbine
	13434	STORLIDEN	652459.1N 0204347.7E (*)	656	1640	F R	Wind turbine
	13435	STORLIDEN	652517.9N 0204401.5E (*)	656	1706	F R	Wind turbine
	13436	STORLIDEN	652523.9N 0204315.5E (*)	656	1712	F R	Wind turbine
	13437	STORLIDEN	652534.6N 0204235.2E (*)	656	1739	F R	Wind turbine
	13438	STORLIDEN	652548.4N 0204259.4E (*)	656	1791	F R	Wind turbine
	13439	STORLIDEN	652559.3N 0204221.0E (*)	656	1798	F R	Wind turbine
	13440	STORLIDEN	652600.8N 0204114.2E (*)	656	1752	F R	Wind turbine
	13441	STORLIDEN	652548.4N 0204148.4E (*)	656	1771	F R	Wind turbine
	13442	STORLIDEN	652539.0N 0204338.3E (*)	656	1744	F R	Wind turbine
	13443	STORLIDEN	652534.6N 0204418.0E (*)	656	1696	F R	Wind turbine
	13444	STORLIDEN	652521.3N 0204442.6E (*)	656	1657	F R	Wind turbine
	13445	STORLIDEN	652534.4N 0204508.2E (*)	656	1594	F R	Wind turbine
	13446	STORLIDEN	652511.6N 0204512.9E (*)	656	1613	F R	Wind turbine
	13447	STORLIDEN	652518.2N 0204552.1E (*)	656	1613	F R	Wind turbine
	13448	STORLIDEN	652535.1N 0204548.5E (*)	656	1527	FLG W	Wind turbine
	13449	STORLIDEN	652558.3N 0204511.6E (*)	656	1566	F R	Wind turbine
	13450	SKOGBERGSLIDEN	652123.7N 0205822.1E (*)	656	1273	F R	Wind turbine
	13451	SKOGBERGSLIDEN	652115.9N 0205859.6E (*)	656	1217	FLG W	Wind turbine
	13452	SKOGBERGSLIDEN	652142.8N 0205802.0E (*)	656	1283	F R	Wind turbine
	13453	SKOGBERGSLIDEN	652138.8N 0205844.4E (*)	656	1198	F R	Wind turbine
	13454	SKOGBERGSLIDEN	652156.0N 0205830.5E (*)	656	1211	FLG W	Wind turbine
	13455	SKOGBERGSLIDEN	652142.4N 0205721.4E (*)	656	1358	FLG W	Wind turbine
	13456	SKOGBERGSLIDEN	652158.0N 0205743.7E (*)	656	1286	F R	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13457	SKOGBERGSLIDEN	652156.9N 0205653.6E (*)	656	1378	F R	Wind turbine
	13458	SKOGBERGSLIDEN	652216.5N 0205650.1E (*)	656	1352	F R	Wind turbine
	13459	SKOGBERGSLIDEN	652240.4N 0205622.0E (*)	656	1430	F R	Wind turbine
	13460	SKOGBERGSLIDEN	652239.3N 0205710.8E (*)	656	1293	F R	Wind turbine
	13461	SKOGBERGSLIDEN	652223.8N 0205725.9E (*)	656	1286	F R	Wind turbine
	13462	SKOGBERGSLIDEN	652251.9N 0205637.9E (*)	656	1352	F R	Wind turbine
	13463	SKOGBERGSLIDEN	652308.0N 0205617.3E (*)	656	1365	F R	Wind turbine
	13464	SKOGBERGSLIDEN	652315.8N 0205653.4E (*)	656	1276	FLG W	Wind turbine
	13465	SKOGBERGSLIDEN	652325.1N 0205619.6E (*)	656	1299	F R	Wind turbine
	13466	SKOGBERGSLIDEN	652325.3N 0205538.6E (*)	656	1411	F R	Wind turbine
	13467	SKOGBERGSLIDEN	652342.4N 0205537.8E (*)	656	1316	F R	Wind turbine
	13468	SKOGBERGSLIDEN	652331.5N 0205458.0E (*)	656	1434	F R	Wind turbine
	13469	SKOGBERGSLIDEN	652340.0N 0205422.2E (*)	656	1434	F R	Wind turbine
	13470	SKOGBERGSLIDEN	652342.3N 0205334.6E (*)	656	1463	F R	Wind turbine
	13471	SKOGBERGSLIDEN	652340.6N 0205253.6E (*)	656	1509	F R	Wind turbine
	13472	SKOGBERGSLIDEN	652312.3N 0205203.1E (*)	656	1568	F R	Wind turbine
	13473	SKOGBERGSLIDEN	652346.2N 0205133.8E (*)	656	1444	FLG W	Wind turbine
	13474	SKOGBERGSLIDEN	652345.5N 0205215.0E (*)	656	1460	F R	Wind turbine
	13475	SKOGBERGSLIDEN	652355.7N 0205449.8E (*)	656	1339	F R	Wind turbine
	13476	SKOGBERGSLIDEN	652405.5N 0205533.5E (*)	656	1234	FLG W	Wind turbine
	13477	SKOGBERGSLIDEN	652353.7N 0205613.3E (*)	656	1247	F R	Wind turbine
	13478	SKOGBERGSLIDEN	652408.9N 0205622.2E (*)	656	1224	F R	Wind turbine
	13479	SKOGBERGSLIDEN	652354.0N 0205649.6E (*)	656	1250	F R	Wind turbine
	13480	SKOGBERGSLIDEN	652409.1N 0205711.8E (*)	656	1217	F R	Wind turbine
	13481	SKOGBERGSLIDEN	652402.3N 0205747.9E (*)	656	1214	FLG W	Wind turbine
	13482	SVARTLIDEN	652147.5N 0204350.2E (*)	656	1808	F R	Wind turbine
	13483	SVARTLIDEN	652158.2N 0204321.6E (*)	656	1831	FLG W	Wind turbine
	13484	SVARTLIDEN	652100.4N 0204552.6E (*)	656	1673	F R	Wind turbine
	13485	SVARTLIDEN	652218.6N 0204817.1E (*)	656	1729	F R	Wind turbine
	13486	SVARTLIDEN	652240.6N 0204824.5E (*)	656	1673	F R	Wind turbine
	13487	SVARTLIDEN	652231.9N 0204744.2E (*)	656	1778	F R	Wind turbine
	13488	SVARTLIDEN	652247.9N 0204728.2E (*)	656	1726	F R	Wind turbine
	13489	SVARTLIDEN	652301.7N 0204703.4E (*)	656	1693	FLG W	Wind turbine
	13490	STORLIDEN	652552.4N 0204426.1E (*)	656	1647	F R	Wind turbine
	13491	STORLIDEN	652611.9N 0204447.6E (*)	656	1578	F R	Wind turbine
	13492	STORLIDEN	652626.2N 0204425.4E (*)	656	1558	FLG W	Wind turbine
	13493	STORLIDEN	652632.6N 0204351.2E (*)	656	1594	F R	Wind turbine
	13494	STORLIDEN	652620.8N 0204328.7E (*)	656	1686	F R	Wind turbine
	13495	STORLIDEN	652634.5N 0204302.0E (*)	656	1690	F R	Wind turbine
	13496	STORLIDEN	652700.2N 0204318.0E (*)	656	1588	FLG W	Wind turbine
	13497	STORLIDEN	652555.9N 0204025.8E (*)	656	1755	FLG W	Wind turbine
	13498	STORLIDEN	652646.9N 0204344.5E (*)	656	1591	F R	Wind turbine
	13885	STORLIDEN	652628.0N 0203721.4E (*)	650	1850	F R	Wind turbine
	13886	STORLIDEN	652616.6N 0203700.2E (*)	650	1890	F R	Wind turbine
	13887	STORLIDEN	652618.0N 0203621.6E (*)	650	1932	F R	Wind turbine
	13888	STORLIDEN	652630.7N 0203646.1E (*)	650	1880	F R	Wind turbine
	13889	STORLIDEN	652645.9N 0203651.0E (*)	650	1841	F R	Wind turbine
	13890	STORLIDEN	652639.7N 0203610.0E (*)	650	1890	F R	Wind turbine
	13891	STORLIDEN	652610.7N 0203733.2E (*)	650	1864	F R	Wind turbine
	13892	STORLIDEN	652629.4N 0203823.4E (*)	650	1765	F R	Wind turbine
	13893	STORLIDEN	652642.3N 0203727.5E (*)	650	1785	F R	Wind turbine
	13894	STORLIDEN	652701.5N 0203721.0E (*)	650	1706	F R	Wind turbine
	13895	STORLIDEN	652659.1N 0203634.0E (*)	650	1781	F R	Wind turbine
	13896	STORLIDEN	652649.0N 0203845.7E (*)	650	1699	F R	Wind turbine
	13942	STORLIDEN	652704.1N 0203814.4E (*)	650	1683	F R	Wind turbine
	13943	STORLIDEN	652723.5N 0203725.8E (*)	650	1608	F R	Wind turbine
	13944	STORLIDEN	652712.7N 0203657.6E (*)	650	1683	FLG W	Wind turbine
	13945	STORLIDEN	652629.7N 0203542.3E (*)	650	1926	F R	Wind turbine
	13946	STORLIDEN	652726.7N 0203813.7E (*)	650	1611	F R	Wind turbine
	13947	STORLIDEN	652445.0N 0203756.3E (*)	650	1847	F R	Wind turbine
	13948	STORLIDEN	652551.3N 0203552.8E (*)	650	1886	F R	Wind turbine
	13949	STORLIDEN	652531.8N 0203612.1E (*)	650	1841	FLG W	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	13950	STORLIDEN	652522.8N 0203647.0E (*)	650	1834	F R	Wind turbine
	13951	STORLIDEN	652615.2N 0203528.8E (*)	650	1916	FLG W	Wind turbine
	14022	LÅNGTRÄSK	652716.3N 0202233.4E (*)	656	2051	FLG W	Wind turbine
	14130	S BRÄNNTRÄSK	653436.9N 0201827.8E (*)	591	2051	FLG W	Wind turbine
	14131	ALDERMYRBERGET	650909.6N 0200628.6E	755	1969	FLG W	Wind turbine
	14132	ALDERMYRBERGET	650858.6N 0200637.7E	755	1969	F R	Wind turbine
	14133	ALDERMYRBERGET	650845.3N 0200718.4E	755	2073	FLG W	Wind turbine
	14134	ALDERMYRBERGET	650836.2N 0200435.7E	755	1886	F R	Wind turbine
	14135	ALDERMYRBERGET	650834.5N 0200356.1E	755	1831	FLG W	Wind turbine
	14136	ALDERMYRBERGET	650834.0N 0200634.2E	755	2146	F R	Wind turbine
	14137	ALDERMYRBERGET	650823.3N 0200601.6E	755	2208	F R	Wind turbine
	14138	ALDERMYRBERGET	650824.2N 0200637.1E	755	2198	F R	Wind turbine
	14139	ALDERMYRBERGET	650810.7N 0200614.7E	755	2185	F R	Wind turbine
	14140	ALDERMYRBERGET	650811.8N 0200453.7E	755	1972	F R	Wind turbine
	14141	ALDERMYRBERGET	650800.5N 0200654.9E	755	2014	F R	Wind turbine
	14142	ALDERMYRBERGET	650801.7N 0200540.9E	755	2113	F R	Wind turbine
	14143	ALDERMYRBERGET	650755.8N 0200624.7E	755	2080	F R	Wind turbine
	14144	ALDERMYRBERGET	650741.6N 0200652.0E	755	1975	FLG W	Wind turbine
	14145	ALDERMYRBERGET	650740.8N 0200626.0E	755	2060	F R	Wind turbine
	14146	ALDERMYRBERGET	650738.3N 0200415.9E	755	1972	FLG W	Wind turbine
	14147	ALDERMYRBERGET	650734.9N 0200527.8E	755	1873	FLG W	Wind turbine
	14155	S BRÄNNTRÄSK	653511.0N 0201751.6E (*)	656	1808	F R	Wind turbine
	14156	S BRÄNNTRÄSK	653520.9N 0201845.8E (*)	656	1775	FLG W	Wind turbine
	14157	S BRÄNNTRÄSK	653506.8N 0201831.6E (*)	656	1909	F R	Wind turbine
	14158	S BRÄNNTRÄSK	653454.5N 0201753.7E (*)	656	1952	F R	Wind turbine
	14159	S BRÄNNTRÄSK	653450.9N 0201830.1E (*)	656	2024	F R	Wind turbine
	14160	S BRÄNNTRÄSK	653444.3N 0201712.4E (*)	656	1831	F R	Wind turbine
	14161	S BRÄNNTRÄSK	653440.1N 0201747.9E (*)	656	2031	F R	Wind turbine
	14162	S BRÄNNTRÄSK	653427.6N 0201720.0E (*)	656	1900	FLG W	Wind turbine
	14163	S BRÄNNTRÄSK	653423.6N 0201755.8E (*)	591	2024	FLG W	Wind turbine
	14164	S BRÄNNTRÄSK	653410.6N 0201653.0E (*)	656	1903	FLG W	Wind turbine
	14165	S BRÄNNTRÄSK	653409.6N 0201733.3E (*)	656	2005	FLG W	Wind turbine
	14166	S BRÄNNTRÄSK	653407.2N 0201807.0E (*)	591	2051	FLG W	Wind turbine
	14167	S BRÄNNTRÄSK	653357.0N 0201700.9E (*)	656	1975	FLG W	Wind turbine
	14168	S BRÄNNTRÄSK	653348.3N 0201728.5E (*)	591	2028	F R	Wind turbine
	14169	S BRÄNNTRÄSK	653340.0N 0201755.8E (*)	591	2044	FLG W	Wind turbine
	14170	S BRÄNNTRÄSK	653336.0N 0201657.6E (*)	591	2057	F R	Wind turbine
	14171	S BRÄNNTRÄSK	653502.6N 0201327.3E (*)	591	2024	FLG W	Wind turbine
	14172	S BRÄNNTRÄSK	653453.3N 0201355.1E (*)	656	1985	F R	Wind turbine
	14173	S BRÄNNTRÄSK	653447.3N 0201427.8E (*)	656	1926	F R	Wind turbine
	14174	S BRÄNNTRÄSK	653434.4N 0201401.8E (*)	656	1936	F R	Wind turbine
	14175	S BRÄNNTRÄSK	653413.6N 0201349.9E (*)	656	1978	FLG W	Wind turbine
	14176	S BRÄNNTRÄSK	653411.7N 0201428.0E (*)	656	1886	F R	Wind turbine
	14177	S BRÄNNTRÄSK	653405.1N 0201457.1E (*)	656	1913	F R	Wind turbine
	14178	S BRÄNNTRÄSK	653356.6N 0201524.6E (*)	656	1942	F R	Wind turbine
	14179	S BRÄNNTRÄSK	653350.8N 0201419.1E (*)	656	1893	F R	Wind turbine
	14180	S BRÄNNTRÄSK	653345.1N 0201452.7E (*)	656	1919	F R	Wind turbine
	14181	S BRÄNNTRÄSK	653345.9N 0201547.4E (*)	656	2005	F R	Wind turbine
	14182	S BRÄNNTRÄSK	653335.0N 0201517.6E (*)	656	1972	F R	Wind turbine
	14183	S BRÄNNTRÄSK	653332.4N 0201557.3E (*)	656	2067	F R	Wind turbine
	14184	S BRÄNNTRÄSK	653321.5N 0201523.3E (*)	656	2051	F R	Wind turbine
	14185	S BRÄNNTRÄSK	653318.2N 0201607.5E (*)	591	2044	F R	Wind turbine
	14186	S BRÄNNTRÄSK	653312.9N 0201428.3E (*)	656	1913	F R	Wind turbine
	14187	S BRÄNNTRÄSK	653305.2N 0201505.4E (*)	656	2037	F R	Wind turbine
	14188	S BRÄNNTRÄSK	653259.1N 0201538.9E (*)	591	2047	F R	Wind turbine
	14189	S BRÄNNTRÄSK	653247.1N 0201606.1E (*)	591	2047	F R	Wind turbine
	14190	S BRÄNNTRÄSK	653236.1N 0201623.5E (*)	591	2005	F R	Wind turbine
	14191	S BRÄNNTRÄSK	653227.2N 0201648.8E (*)	656	2011	F R	Wind turbine
	14192	S BRÄNNTRÄSK	653219.8N 0201720.7E (*)	656	1962	F R	Wind turbine
	14193	S BRÄNNTRÄSK	653208.1N 0201736.1E (*)	656	1942	FLG W	Wind turbine
	14194	S BRÄNNTRÄSK	653251.0N 0201459.9E (*)	656	1998	F R	Wind turbine
	14195	S BRÄNNTRÄSK	653230.6N 0201543.2E (*)	656	2037	F R	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	14196	S BRÄNNTRÄSK	653221.0N 0201607.2E (*)	656	1985	F R	Wind turbine
	14197	S BRÄNNTRÄSK	653213.0N 0201642.0E (*)	656	1962	F R	Wind turbine
	14198	S BRÄNNTRÄSK	653237.4N 0201441.3E (*)	656	1877	F R	Wind turbine
	14199	S BRÄNNTRÄSK	653226.4N 0201502.5E (*)	656	1890	FLG W	Wind turbine
	14200	S BRÄNNTRÄSK	653234.4N 0201126.5E (*)	591	2034	FLG W	Wind turbine
	14201	S BRÄNNTRÄSK	653149.8N 0200920.9E (*)	591	2031	F R	Wind turbine
	14202	S BRÄNNTRÄSK	653221.1N 0200925.3E (*)	591	2051	FLG W	Wind turbine
	14203	S BRÄNNTRÄSK	653222.0N 0201011.9E (*)	591	2034	F R	Wind turbine
	14239	KLÖVERFORS	650515.8N 0203519.1E	492	1614	F R	Mast
	14829	FAGERHEDEN	651855.4N 0205027.6E	656	1603	F R	Wind turbine
	14830	FAGERHEDEN	651838.3N 0205048.8E	656	1618	F R	Wind turbine
	14831	FAGERHEDEN	651817.5N 0205048.8E	656	1618	F R	Wind turbine
	14832	FAGERHEDEN	651807.1N 0205122.2E	656	1622	F R	Wind turbine
	14833	FAGERHEDEN	651802.6N 0205200.9E	656	1627	F R	Wind turbine
	14834	FAGERHEDEN	651849.8N 0205203.4E	656	1668	F R	Wind turbine
	14835	FAGERHEDEN	651905.5N 0205217.9E	656	1600	F R	Wind turbine
	14836	FAGERHEDEN	651845.2N 0205248.5E	656	1660	F R	Wind turbine
	14837	FAGERHEDEN	651832.0N 0205303.0E	656	1709	F R	Wind turbine
	14838	FAGERHEDEN	651836.4N 0205337.2E	656	1646	FLG W	Wind turbine
	14839	FAGERHEDEN	651814.9N 0205342.4E	656	1635	F R	Wind turbine
	14840	FAGERHEDEN	651706.4N 0205341.8E	656	1559	F R	Wind turbine
	14841	FAGERHEDEN	651744.4N 0205440.2E	656	1544	F R	Wind turbine
	14842	FAGERHEDEN	651800.1N 0205427.3E	656	1578	FLG W	Wind turbine
	14843	FAGERHEDEN	651817.6N 0205422.6E	656	1601	F R	Wind turbine
	14844	FAGERHEDEN	651655.8N 0205237.5E	656	1507	F R	Wind turbine
	14845	FAGERHEDEN	651644.2N 0205304.4E	656	1521	FLG W	Wind turbine
	14846	FAGERHEDEN	651645.4N 0205411.3E	656	1524	F R	Wind turbine
	14847	FAGERHEDEN	651634.9N 0205338.4E	656	1501	F R	Wind turbine
	14848	FAGERHEDEN	651623.6N 0205434.9E	656	1475	F R	Wind turbine
	14849	FAGERHEDEN	651638.5N 0205458.1E	656	1499	F R	Wind turbine
	14850	FAGERHEDEN	651625.1N 0205550.3E	656	1470	F R	Wind turbine
	14851	FAGERHEDEN	651729.2N 0205418.3E	656	1601	F R	Wind turbine
	14852	FAGERHEDEN	651720.5N 0205506.9E	656	1514	F R	Wind turbine
	14853	FAGERHEDEN	651718.1N 0205543.3E	656	1492	F R	Wind turbine
	14854	FAGERHEDEN	651701.5N 0205524.4E	656	1491	F R	Wind turbine
	14855	FAGERHEDEN	651648.1N 0205614.8E	656	1478	F R	Wind turbine
	14856	FAGERHEDEN	651655.2N 0205656.0E	656	1456	FLG W	Wind turbine
	14857	FAGERHEDEN	651611.2N 0205521.8E	656	1446	FLG W	Wind turbine
	14858	FAGERHEDEN	651602.9N 0205604.3E	656	1457	FLG W	Wind turbine
	14951	PITEÅ	651559.2N 0205534.2E	381	1145	F R	Mast
	14952	PITEÅ	652110.7N 0203549.6E	381	1453	F R	Mast
	14953	PITEÅ	652208.5N 0203711.4E	381	1467	F R	Mast
	15096	BOLIDEN	650002.2N 0202018.9E	656	1755	FLG R	Wind turbine
	15097	BOLIDEN	650018.2N 0201927.9E	656	1752	FLG W	Wind turbine
	15098	BOLIDEN	650002.9N 0201907.1E	656	1739	FLG R	Wind turbine
	15099	BOLIDEN	650042.7N 0201917.2E	656	1713	FLG R	Wind turbine
	15100	BOLIDEN	650033.9N 0201831.3E	656	1713	FLG R	Wind turbine
	15101	BOLIDEN	650057.9N 0201834.5E	656	1732	FLG W	Wind turbine
	15102	BOLIDEN	650106.2N 0201708.3E	656	1667	FLG W	Wind turbine
	15103	BOLIDEN	650044.0N 0201729.9E	656	1686	FLG W	Wind turbine
	15104	FAGERHEDEN	651933.8N 0204943.8E	656	1545	FLG W	Wind turbine
	15105	FAGERHEDEN	651919.0N 0204842.9E	656	1604	F R	Wind turbine
	15106	FAGERHEDEN	651913.5N 0205003.4E	656	1592	F R	Wind turbine
	15107	FAGERHEDEN	651744.5N 0205135.0E	656	1564	F R	Wind turbine
	15108	FAGERHEDEN	651730.4N 0205201.9E	656	1547	F R	Wind turbine
	15109	FAGERHEDEN	651718.2N 0205229.4E	656	1552	F R	Wind turbine
	15110	FAGERHEDEN	651726.3N 0205309.5E	656	1588	F R	Wind turbine
	15111	FAGERHEDEN	651928.2N 0205033.1E	656	1578	F R	Wind turbine
	15112	FAGERHEDEN	651918.0N 0205144.9E	656	1582	FLG W	Wind turbine
	15113	FAGERHEDEN	651913.8N 0205059.4E	656	1612	F R	Wind turbine
	15114	FAGERHEDEN	651858.6N 0205123.0E	656	1633	F R	Wind turbine
	15115	FAGERHEDEN	651751.3N 0205328.6E	656	1605	F R	Wind turbine

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	15116	FAGERHEDEN	651633.6N 0205635.9E	656	1443	F R	Wind turbine
	15117	FAGERHEDEN	651631.7N 0205715.3E	656	1429	F R	Wind turbine
	15118	FAGERHEDEN	651640.8N 0205737.2E	656	1439	F R	Wind turbine
	15119	FAGERHEDEN	651555.0N 0205850.3E	656	1385	F R	Wind turbine
	15120	FAGERHEDEN	651538.3N 0205915.5E	656	1340	FLG W	Wind turbine
	15121	FAGERHEDEN	651618.4N 0205901.1E	656	1380	FLG W	Wind turbine
	15122	FAGERHEDEN	651547.8N 0205816.9E	656	1380	F R	Wind turbine
	15123	FAGERHEDEN	651603.7N 0205744.9E	656	1407	F R	Wind turbine
	15124	FAGERHEDEN	651914.6N 0204653.9E	656	1688	FLG W	Wind turbine
	15125	FAGERHEDEN	651902.8N 0204727.0E	656	1679	F R	Wind turbine
	15126	FAGERHEDEN	651832.6N 0204808.7E	656	1718	F R	Wind turbine
	15127	FAGERHEDEN	651815.7N 0204730.0E	656	1763	F R	Wind turbine
	15128	FAGERHEDEN	651805.7N 0204758.4E	656	1747	F R	Wind turbine
	15129	FAGERHEDEN	651816.9N 0204912.7E	656	1639	F R	Wind turbine
	15130	FAGERHEDEN	651832.2N 0204930.9E	656	1597	FLG W	Wind turbine
	15131	FAGERHEDEN	651758.0N 0204846.5E	656	1743	F R	Wind turbine
	15132	FAGERHEDEN	651749.1N 0204816.5E	656	1767	F R	Wind turbine
	15133	FAGERHEDEN	651741.9N 0204853.5E	656	1728	F R	Wind turbine
	15134	FAGERHEDEN	651750.2N 0204934.6E	656	1684	F R	Wind turbine
	15135	FAGERHEDEN	651731.1N 0204934.7E	656	1655	F R	Wind turbine
	15136	FAGERHEDEN	651721.5N 0205000.7E	656	1617	FLG W	Wind turbine
	15137	FAGERHEDEN	651712.0N 0205032.6E	656	1572	F R	Wind turbine
	15138	FAGERHEDEN	651855.0N 0204519.6E	656	1785	F R	Wind turbine
	15139	FAGERHEDEN	651847.5N 0204617.1E	656	1773	F R	Wind turbine
	15140	FAGERHEDEN	651841.3N 0204720.0E	656	1731	F R	Wind turbine
	15141	FAGERHEDEN	651923.0N 0204501.2E	656	1800	F R	Wind turbine
	15142	FAGERHEDEN	651911.7N 0204531.2E	656	1781	F R	Wind turbine
	15292	ÄLVSBYN	652705.4N 0204111.8E (*)	653	1670	F R	Wind turbine
	15293	ÄLVSBYN	652704.0N 0204110.8E (*)	653	1736	F R	Wind turbine
	15294	ÄLVSBYN	652701.7N 0204212.2E (*)	653	1683	F R	Wind turbine
	15295	ÄLVSBYN	652650.4N 0204130.3E (*)	653	1755	F R	Wind turbine
	15296	ÄLVSBYN	652647.2N 0204226.8E (*)	653	1709	F R	Wind turbine
	15297	ÄLVSBYN	652632.8N 0204137.1E (*)	653	1768	F R	Wind turbine
	15298	ÄLVSBYN	652734.4N 0203906.9E (*)	653	1631	FLG W	Wind turbine
	15299	ÄLVSBYN	652727.7N 0204001.9E (*)	653	1670	F R	Wind turbine
	15300	ÄLVSBYN	652625.4N 0204003.8E (*)	653	1726	F R	Wind turbine
	15301	ÄLVSBYN	652616.9N 0204036.7E (*)	653	1765	F R	Wind turbine
	15302	ÄLVSBYN	652643.2N 0204007.8E (*)	653	1752	F R	Wind turbine
	15303	ÄLVSBYN	652700.8N 0203938.1E (*)	653	1742	F R	Wind turbine
	15304	ÄLVSBYN	652713.7N 0203918.0E (*)	653	1709	F R	Wind turbine
	15305	ÄLVSBYN	652713.6N 0204016.2E (*)	653	1726	F R	Wind turbine
	15306	ÄLVSBYN	652656.7N 0204038.3E (*)	653	1768	F R	Wind turbine
	15307	ÄLVSBYN	652740.3N 0204056.7E (*)	653	1647	F R	Wind turbine
	15308	ÄLVSBYN	652735.8N 0204133.5E (*)	653	1650	FLG W	Wind turbine
	15309	ÄLVSBYN	652718.7N 0204237.7E (*)	653	1614	FLG W	Wind turbine
	15310	ÄLVSBYN	652619.3N 0204242.5E (*)	653	1749	FLG W	Wind turbine
	15311	ÄLVSBYN	652632.9N 0204216.4E (*)	653	1772	F R	Wind turbine
	15351	LÅNGTRÄSK	652331.0N 0203620.1E	656	1936	FLG W	Wind turbine
	15352	LÅNGTRÄSK	652323.7N 0203719.4E	656	1978	F R	Wind turbine
	15353	LÅNGTRÄSK	652317.2N 0203640.7E	656	1919	F R	Wind turbine
	15354	LÅNGTRÄSK	652312.3N 0203746.8E	656	1932	FLG W	Wind turbine
	15355	LÅNGTRÄSK	652303.8N 0203702.9E	656	1932	FLG W	Wind turbine
	15356	LÅNGTRÄSK	652254.0N 0203743.1E	656	1932	F R	Wind turbine
	15357	LÅNGTRÄSK	652211.8N 0203735.8E	656	1706	F R	Wind turbine
	15358	LÅNGTRÄSK	652157.9N 0203709.4E	656	1706	F R	Wind turbine
	15359	LÅNGTRÄSK	652157.2N 0203753.5E	656	1706	FLG W	Wind turbine
	15360	LÅNGTRÄSK	652142.9N 0203650.1E	656	1752	F R	Wind turbine
	15361	LÅNGTRÄSK	652135.9N 0203735.8E	656	1791	F R	Wind turbine
	15362	LÅNGTRÄSK	652128.9N 0203811.9E	656	1795	F R	Wind turbine
	15363	LÅNGTRÄSK	652114.9N 0203826.4E	656	1827	F R	Wind turbine
	15364	LÅNGTRÄSK	652116.1N 0203742.4E	656	1834	F R	Wind turbine
	15365	LÅNGTRÄSK	652117.4N 0203702.8E	656	1762	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
	15366	LÅNGTRÄSK	652124.2N 0203602.6E	656	1713	FLG W	Wind turbine
	15367	LÅNGTRÄSK	652100.1N 0203613.1E	656	1686	F R	Wind turbine
	15368	LÅNGTRÄSK	652054.8N 0203705.9E	656	1693	F R	Wind turbine
	15369	LÅNGTRÄSK	652101.9N 0203757.1E	656	1693	F R	Wind turbine
	15370	LÅNGTRÄSK	652107.3N 0203902.3E	656	1768	FLG W	Wind turbine
	15371	LÅNGTRÄSK	652056.0N 0203927.1E	656	1768	F R	Wind turbine
	15372	LÅNGTRÄSK	652045.4N 0203955.0E	656	1703	F R	Wind turbine
	15373	LÅNGTRÄSK	652053.5N 0203848.2E	656	1706	F R	Wind turbine
	15374	LÅNGTRÄSK	652040.3N 0203651.5E	656	1673	F R	Wind turbine
	15375	LÅNGTRÄSK	652024.4N 0203720.2E	656	1742	F R	Wind turbine
	15376	LÅNGTRÄSK	652015.6N 0203645.2E	656	1627	FLG W	Wind turbine
	15377	LÅNGTRÄSK	652017.2N 0203757.6E	656	1795	F R	Wind turbine
	15378	LÅNGTRÄSK	652008.1N 0203727.9E	656	1795	F R	Wind turbine
	15379	LÅNGTRÄSK	652000.7N 0203805.2E	656	1778	F R	Wind turbine
	15380	LÅNGTRÄSK	652007.7N 0203841.5E	656	1749	F R	Wind turbine
	15381	LÅNGTRÄSK	651956.1N 0203902.8E	656	1745	F R	Wind turbine
	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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
65N 21E	569	BODEN/ÄLVSBYN	654116.8N 0211557.1E	1066	1956	F R/FLG W	Mast
	9746	HEMMINGSMARK	651420.3N 0210930.2E (*)	394	1050	F R	Mast
	10264	BONDÖN	651215.5N 0214255.7E (*)	443	449	FLG R	Wind turbine
	10265	BONDÖN	651229.2N 0214234.9E (*)	443	463	FLG R	Wind turbine
	10266	BONDÖN	651312.8N 0214131.5E (*)	443	463	FLG R	Wind turbine
	10267	BONDÖN	651320.3N 0214158.3E (*)	443	466	FLG R	Wind turbine
	10268	BONDÖN	651225.5N 0214349.1E (*)	443	466	FLG R	Wind turbine
	10269	BONDÖN	651240.2N 0214328.2E (*)	443	466	FLG R	Wind turbine
	10270	BONDÖN	651254.6N 0214309.7E (*)	443	472	FLG R	Wind turbine
	10271	BONDÖN	651243.8N 0214213.9E (*)	443	459	FLG R	Wind turbine
	10272	BONDÖN	651259.1N 0214154.8E (*)	443	469	FLG R	Wind turbine
	10273	BONDÖN	651222.3N 0214323.6E (*)	443	472	FLG R	Wind turbine
	10274	BONDÖN	651241.1N 0214253.2E (*)	443	469	FLG R	Wind turbine
	10275	BONDÖN	651300.4N 0214227.0E (*)	443	482	FLG R	Wind turbine
	10276	BONDÖN	651309.0N 0214249.0E (*)	443	469	FLG R	Wind turbine
	10277	BONDÖN	651323.3N 0214229.2E (*)	443	456	FLG R	Wind turbine
	11242	HEMMINGSMARK	651404.3N 0210953.2E (*)	328	984	F R	Mast
65N 22E	573	LULEÅ/SINKSUNDSBERGET	653650.8N 0221208.2E	341	563	F R	Mast
	9141	LULEÅ	653309.4N 0221751.6E (*)	328	335	F R	Mast
65N 23E	576	HAPARANDA/LÅNGTRÄSK	655616.0N 0233058.2E	1063	1360	F R/FLG W	Mast
	8114	BÅTSKÄRSNÄS	654642.6N 0232330.5E (*)	335	400	F R	Wind turbine
	9375	STORÖN	654237.8N 0230425.2E (*)	328	328	F R	Wind turbine
	11161	SESKARÖ	654310.2N 0234232.3E (*)	328	390	F R	Wind turbine
	11162	SESKARÖ	654307.5N 0234308.5E (*)	328	371	F R	Wind turbine
	11163	SESKARÖ	654306.4N 0234347.2E (*)	328	394	F R	Wind turbine
	11164	SESKARÖ	654253.8N 0234322.6E (*)	328	367	F R	Wind turbine
	11165	SESKARÖ	654255.3N 0234249.9E (*)	328	387	F R	Wind turbine
66N 19E	1010	LIGGA	664835.0N 0195430.8E (*)	344	1132	F R	Mast
66N 20E	590	VUOLLERIM	662647.2N 0204236.4E (*)	344	1329	F R	Mast
66N 22E	610	ÖVERKALIX	661805.4N 0225113.0E (*)	1083	1424	F R/FLG W	Mast
	10160	STORMUGGBERGET	662043.5N 0221330.9E (*)	331	1207	F R	Mast
	10161	HÄLLBERGET	662333.9N 0220535.9E (*)	331	1555	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	661945.7N 0220548.4E (*)	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	665041.0N 0232722.7E (*)	390	1512	F R	Wind turbine
	7586	ETU-AAPUA	665025.9N 0232739.4E (*)	390	1604	F R	Wind turbine
	7587	ETU-AAPUA	665017.3N 0232740.8E (*)	390	1611	F R	Wind turbine
	7588	ETU-AAPUA	664957.7N 0232740.6E (*)	390	1693	F R	Wind turbine
	7589	ETU-AAPUA	664948.8N 0232747.5E (*)	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

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Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	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	665210.8N 0232340.4E (*)	587	1434	FLG W	Wind turbine
	11901	KORPILOMBOLO	665132.9N 0231659.7E (*)	587	1572	FLG W	Wind turbine
	11902	KORPILOMBOLO	665125.5N 0231739.9E (*)	587	1490	F R	Wind turbine
	11903	KORPILOMBOLO	665114.8N 0231655.9E (*)	587	1539	F R	Wind turbine
	11904	KORPILOMBOLO	665058.2N 0231631.4E (*)	587	1542	FLG W	Wind turbine
	11905	KORPILOMBOLO	665056.8N 0231715.2E (*)	587	1637	F R	Wind turbine
	11906	KORPILOMBOLO	665048.6N 0231748.8E (*)	587	1552	FLG W	Wind turbine
	11907	KORPILOMBOLO	665032.0N 0231722.3E (*)	587	1621	F R	Wind turbine
	11908	KORPILOMBOLO	665013.8N 0231707.7E (*)	587	1539	F R	Wind turbine
	11909	KORPILOMBOLO	665001.6N 0231732.2E (*)	587	1473	FLG W	Wind turbine
	11910	KORPILOMBOLO	665017.9N 0231832.5E (*)	587	1572	F R	Wind turbine
	11911	KORPILOMBOLO	665000.0N 0231833.8E (*)	587	1496	F R	Wind turbine
	11912	KORPILOMBOLO	664957.6N 0231915.0E (*)	587	1496	FLG W	Wind turbine
	12718	KORPILOMBOLO	665626.5N 0231823.5E (*)	597	1621	FLG W	Wind turbine
	12719	KORPILOMBOLO	665622.0N 0231907.8E (*)	597	1562	F R	Wind turbine
	12720	KORPILOMBOLO	665618.2N 0231959.0E (*)	597	1565	FLG W	Wind turbine
	12721	KORPILOMBOLO	665601.0N 0232011.1E (*)	597	1650	F R	Wind turbine
	12722	KORPILOMBOLO	665548.4N 0232042.8E (*)	597	1677	F R	Wind turbine
	12723	KORPILOMBOLO	665531.1N 0232054.9E (*)	597	1558	F R	Wind turbine
	12724	KORPILOMBOLO	665515.6N 0232115.1E (*)	597	1467	FLG W	Wind turbine
	12725	KORPILOMBOLO	665555.5N 0231823.3E (*)	597	1555	FLG W	Wind turbine
	12726	KORPILOMBOLO	665544.3N 0231859.2E (*)	597	1650	F R	Wind turbine
	12727	KORPILOMBOLO	665527.5N 0231920.4E (*)	597	1624	FLG W	Wind turbine
67N 20E	618	KIRUNA/KIRUNAVAARA	674959.5N 0201109.3E (*)	709	2923	F R/FLG W	Mast
	620	GÄLLIVARE/DUNDRET	670600.9N 0203638.2E (*)	518	2969	F R/FLG W	Mast
	621	GÄLLIVARE 2	670410.9N 0205816.0E (*)	374	1437	F R	Mine hoist
	1168	MALMBERGET	671057.8N 0204041.2E (*)	328	2067	F R	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

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

Area	No	Designation	Coordinates	Height ft	Elev ft	Light Character	Types of obstacles
	10931	SJISKA	673717.6N 0200853.5E (*)	427	2635	F R	Wind turbine
	10932	SJISKA	673748.1N 0200934.8E (*)	427	2562	F R	Wind turbine
67N 21E	624	KIRUNA/ESRANGE	675324.5N 0210628.6E (*)	335	1309	F R/FLG W	Tower
	10344	KUUSIVAARA	672859.7N 0215717.0E (*)	328	1601	F R	Mast
	13202	LEHTIROVA	670957.1N 0215948.6E (*)	604	1959	FLG W	Wind turbine
67N 22E	11382	KOIJUVARA	670926.3N 0220053.8E (*)	344	1647	F R	Mast
	13203	LEHTIROVA	670945.1N 0220017.6E (*)	604	1929	F R	Wind turbine
	13204	LEHTIROVA	670933.0N 0220045.6E (*)	604	1916	F R	Wind turbine
	13205	LEHTIROVA	670917.1N 0220104.1E (*)	604	1896	F R	Wind turbine
	13206	LEHTIROVA	670906.9N 0220137.8E (*)	604	1860	FLG W	Wind turbine
	13207	LEHTIROVA	670955.8N 0220635.6E (*)	604	1768	FLG W	Wind turbine
	13208	LEHTIROVA	670945.0N 0220705.2E (*)	604	1847	F R	Wind turbine
	13209	LEHTIROVA	670932.3N 0220732.4E (*)	604	1909	F R	Wind turbine
	13210	LEHTIROVA	670918.0N 0220757.3E (*)	604	1808	F R	Wind turbine
	13211	LEHTIROVA	670906.8N 0220828.7E (*)	604	1709	FLG W	Wind turbine
	13212	LEHTIROVA	670913.2N 0220657.3E (*)	604	1880	F R	Wind turbine
	13213	LEHTIROVA	670851.4N 0220701.5E (*)	604	1841	FLG W	Wind turbine
	13214	LEHTIROVA	670834.5N 0220721.6E (*)	604	1808	F R	Wind turbine
	13215	LEHTIROVA	670818.3N 0220741.9E (*)	604	1752	FLG W	Wind turbine
	13216	LEHTIROVA	670445.4N 0220539.7E (*)	604	1726	FLG W	Wind turbine
	13217	LEHTIROVA	670426.8N 0220505.7E (*)	604	1818	F R	Wind turbine
	13218	LEHTIROVA	670413.4N 0220537.6E (*)	604	1729	F R	Wind turbine
	13219	LEHTIROVA	670352.0N 0220548.6E (*)	604	1729	F R	Wind turbine
	13220	LEHTIROVA	670334.3N 0220613.4E (*)	604	1722	FLG W	Wind turbine
	13221	LEHTIROVA	670458.9N 0220234.0E (*)	604	1867	FLG W	Wind turbine
	13222	LEHTIROVA	670453.2N 0220317.5E (*)	604	1818	F R	Wind turbine
	13223	LEHTIROVA	670431.9N 0220242.3E (*)	604	1870	F R	Wind turbine
	13224	LEHTIROVA	670421.2N 0220315.9E (*)	604	1837	F R	Wind turbine
	13225	LEHTIROVA	670410.7N 0220221.4E (*)	604	1749	FLG W	Wind turbine
	13226	LEHTIROVA	670400.3N 0220318.0E (*)	604	1890	F R	Wind turbine
	13227	LEHTIROVA	670340.5N 0220335.7E (*)	604	1824	F R	Wind turbine
	13228	LEHTIROVA	670328.8N 0220407.8E (*)	604	1749	FLG W	Wind turbine
	13229	LEHTIROVA	670331.6N 0220204.0E (*)	604	1755	F R	Wind turbine
	13230	LEHTIROVA	670324.6N 0220244.4E (*)	604	1755	F R	Wind turbine
	13231	LEHTIROVA	670313.0N 0220138.3E (*)	604	1791	FLG W	Wind turbine
	13232	LEHTIROVA	670119.0N 0220128.8E (*)	604	1900	FLG W	Wind turbine
	13233	LEHTIROVA	670122.7N 0220215.4E (*)	604	1791	FLG W	Wind turbine
	13963	TÄRENDÖ	670810.2N 0222252.0E (*)	499	1568	F R	Mast
	13964	PAJALA	672421.3N 0225916.2E (*)	499	1535	F R	Mast
	13965	PAJALA	672315.1N 0225436.2E (*)	499	1381	F R	Mast
67N 23E	628	PAJALA 2	671643.9N 0231353.4E (*)	1099	1896	F R/FLG W	Mast
68N 22E	633	KARESUANDO	682418.4N 0222948.4E (*)	358	1982	F R	Mast

ENROUTE CHART

ENR 6.1-1

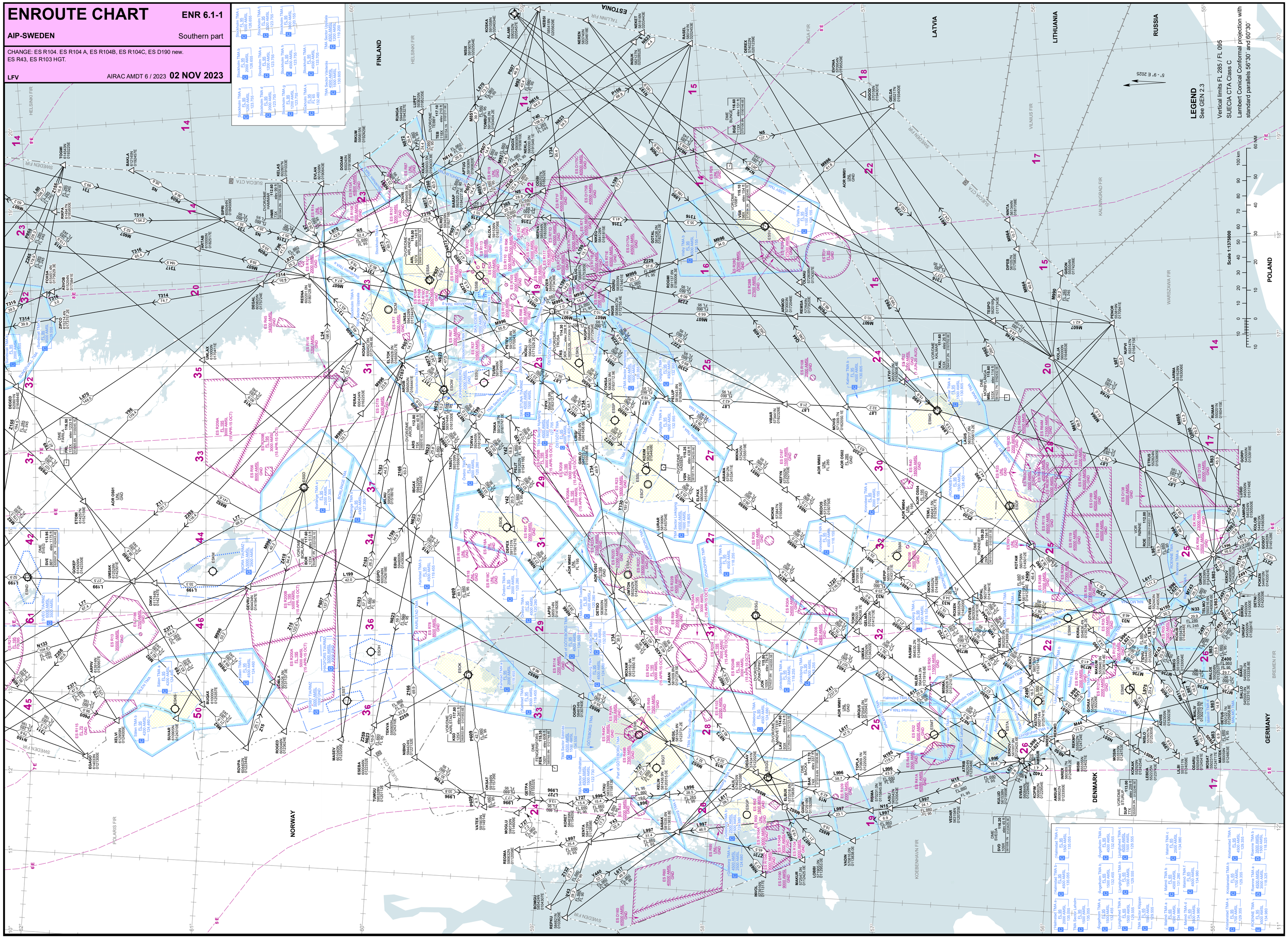
AIP-SWEDEN

Southern part

CHANGE: ES R104. ES R104 A, ES R104B, ES R104C, ES D190 new.
ES R43, ES R103 HGT.

LFV

AIRAC AMDT 6 / 2023 **02 NOV 2023**



DEL 3 – FLYGPLATSER/AERODROMES (AD) – PART 3

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AD 2 Flygplatser / Aerodromes

Sektionen innehåller nedanstående underrubriker för varje individuell flygplats/
The section contains the following subheadings for each individual aerodrome

AD 2.1	Platsindikator och namn/Location indicator and name
AD 2.2	Geografiska och administrativa data/Geographical and administrative data
AD 2.3	Öppenhållningstider/Operational hours
AD 2.4	Ramptjänster o dyl/Handling services and facilities
AD 2.5	Passagerartjänster/ Passenger facilities
AD 2.6	Brand- och räddningstjänst/Rescue and fire fighting services
AD 2.7	Säsongmässig tillgänglighet – snöröjning/Seasonal availability - clearing
AD 2.8	Plattor, taxibanor och kontrollpunktsdata/Aprons, taxiways and check locations data
AD 2.9	Vägledning för taxning och kontrollsystem och markeringar/Surface movement guidance and control system and markings
AD 2.10	Flygplatshinder/Aerodrome obstacles
AD 2.11	Tillhandahållen meteorologisk informantion/Meteorological information provided
AD 2.12	Uppgifter om rullbana/Runway physical characteristics
AD 2.13	Tillängliga banlängder/Declared distances
AD 2.14	Inflygnings- och banljus/Approach and runway lighting
AD 2.15	Övriga ljus, reservkraft/Other lighting, secondary power supply
AD 2.16	Helikopterlandningsplats/Helicopter landing area
AD 2.17	ATS-luftrum/ATS airspace
AD 2.18	Radiokommunikationshjälpmedel/ATS communication facilities
AD 2.19	Radionavigations- och landningshjälpmedel/Radio navigation and landing aids
AD 2.20	Lokala trafikföreskrifter/Local traffic regulations
AD 2.21	Minskning av bullerstörning/Noise abatement procedures
AD 2.22	Flygprocedurer/Flight procedures
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AD 2.25	Genomträngande av ytan för visuella segmentet (VSS)/Visual segment surface (VSS) penetration

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

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ESGP	GÖTEBORG/SÄVE	AD 2 ESGP 1-1
ESOH	HAGFORS	AD 2 ESOH 1-1
ESMT	HALMSTAD	AD 2 ESMT 1-1
ESUT	HEMAVAN TÄRNABY	AD 2 ESUT 1-1
ESGJ	JÖNKÖPING	AD 2 ESGJ 1-1
ESMQ	KALMAR	AD 2 ESMQ 1-1
ESIA	KARLSBORG	AD 2 ESIA 1-1
ESOK	KARLSTAD	AD 2 ESOK 1-1
ESNQ	KIRUNA	AD 2 ESNQ 1-1
ESNK	KRAMFORS-SOLLEFTEÅ	AD 2 ESNK 1-1
ESMK	KRISTIANSTAD	AD 2 ESMK 1-1
ESCF	LINKÖPING/MALMEN	AD 2 ESCF 1-1
ESSL	LINKÖPING/SAAB	AD 2 ESSL 1-1
ESTL	LJUNBYGHED	AD 2 ESTL 1-1
ESPA	LULEÅ/KALLAX	AD 2 ESPA 1-1
ESNL	LYCKSELE	AD 2 ESNL 1-1
ESMS	MALMÖ	AD 2 ESMS 1-1
ESKM	MORA/SILJAN	AD 2 ESKM 1-1
ESSP	NORRKÖPING/KUNGSÄNGEN	AD 2 ESSP 1-1
ESUP	PAJALA	AD 2 ESUP 1-1
ESDF	RONNEBY	AD 2 ESDF 1-1
ESNS	SKELLEFTEÅ	AD 2 ESNS 1-1
ESSA	STOCKHOLM/ARLANDA	AD 2 ESSA 1-1
ESSB	STOCKHOLM/BROMMA	AD 2 ESSB 1-1
ESKN	STOCKHOLM/SKAVSTA	AD 2 ESKN 1-1
ESOW	STOCKHOLM/VÄSTERÅS	AD 2 ESOW 1-1
ESNN	SUNSDVALL-TIMRÅ	AD 2 ESNN 1-1
ESND	SVEG	AD 2 ESND 1-1
ESIB	SÅTENÄS	AD 2 ESIB 1-1
ESKS	SÄLEN/SCANDINAVIAN MOUNTAINS	AD 2 ESKS 1-1
ESST	TORSBY	AD 2 ESST 1-1
ESGT	TROLLHÄTTAN-VÄNERSBORG	AD 2 ESGT 1-1
ESNU	UMEÅ	AD 2 ESNU 1-1
ESCM	UPPSALA	AD 2 ESCM 1-1
ESPE	VIDSEL	AD 2 ESPE 1-1
ESNV	VILHELMINA	AD 2 ESNV 1-1
ESSV	VISBY	AD 2 ESSV 1-1
ESMX	VÄXJÖ/KRONOBERG	AD 2 ESMX 1-1
ESNZ	ÅRE ÖSTERSUND	AD 2 ESNZ 1-1
ESTA	ÄNGELHOLM	AD 2 ESTA 1-1
ESOE	ÖREBRO	AD 2 ESOE 1-1
ESNO	ÖRNSKÖLDSVIK	AD 2 ESNO 1-1

AD 3 Helikopterflygplatser / Heliports ..... AD 3.1-1

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, www.nllplus.se/heliport
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
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

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/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)70 689 21 42 **PPR**
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 (6) E CONC (6) E	Yes Yes	- -	- -	Licensed helicopter AD County council +46 (0)8 123 172 30 +46(0)72 546 05 38 **PPR** 10 min PN SOS Rescue Coordination Centre +46 (0)8 454 26 22 or via RAKEL. Ambulance and rescue flights only. www.locum.se/verktygen/flygsakerhet/ Single FATO permanently closed see webpage. Twin FATO Max rotor diameter 16.3 m. Sector NE 033°-213° obstacle clearance 4.5% Sector SW 233°-053° obstacle clearance 4.5% Restrictions applies for helicopters over 6 tonnes, see webpage.
STOCKHOLM/Södersjukhuset ESHC 591830N 0180317E 136 ft	TLOF Ø 28.1 FATO Ø 28.1	CONC (10) 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/sv/For-vardgivare/Helikopterflygplats-Lanssjukhuset-Sundsvall-Harnosand/
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

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
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/ samverkanswebben/it-service-och- fastighet/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
VÄSTERÅS/Västmanlands sjukhus ESEW 593657N 0163455E 103 ft	TLOF Ø 20 FATO Ø 20	ASPH - - ASPH - -	Yes	-	-	Non-licensed Helicopter AD County council +46 (0)21 17 30 00 **PPR** 30 min PN Rescue Coordination Centre Medhelp +46 (0)21 30 01 65 Ambulance and rescue flights only.
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** 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 frequency 123.350 MHz for 12 seconds. 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
DALA-JÄRNA ESKD 603322N 0142238E (*) 5 NM ENE Vansbro 773 ft	03/21	900x24	ASPH	Yes	100LL	123.350	Non-licensed AD Västerdalarnas flygklubb +46 (0)281 203 82 +46 (0)281 202 60 THR 03 displaced 100 m.
EDSBYN ESUY 612313N 0155000E (*) 1 NM NE 515 ft	11/29	700x40	Grass	No	80/87	123.550	Non-licensed AD Edsbyn flygklubb +46 (0)271 211 50 +46 (0)271 222 14 THR 11 displaced 160 m.
EKSHÄRAD ESKH 600917N 0133143E (*) 1.5 NM SSE 460 ft	15/33	540x45	Grass	No	100LL	-	Non-licensed AD Ekshärad flygklubb +46 (0)563 404 66 +46 (0)563 400 01 THR 15 displaced 115 m.
EKSJÖ/Rännslätt ESMC 574012N 0145631E (*) 0.5 NM W 720 ft	01/19	1000x30	Grass	No	100LL 91/96	123.425	Non-licensed AD Norra Smålands flygklubb +46 (0)381 160 50 **PPR** TEL +46 (0)381 181 03 (Ing 2) THR 01 displaced 200 m. THR 19 displaced 120 m. Right hand traffic circuit to RWY 01. Within ES R39
ENKÖPING/Långtora ESVL 594450N 0170842E (*) 6.5 NM NNE Enköping 49 ft	12/30 07/25	720x200 670x200	Grass Grass	No No	91/96	123.525	Non-licensed AD Stockholms segelflygklubb +46 (0)706 68 50 11 **PPR** See website Repeated/practice take-offs and landings not allowed. Glider traffic, circuit always north of RWY. Motor traffic, circuit always south of RWY. www.ssfk.se Mainly gliding activity from APR-OCT.
ESKILSTUNA ESSU Details, see AD 2	18/36	1886x35	ASPH/ CONC	Yes	AFIS	Yes	Licensed, instrument AD Municipal
ESKILSTUNA/Ekeby ESSC 592302N 0162631E (*) 43 ft	05/23	850x150	Grass	No	91/96	123.200	Non-licensed AD Municipal +46 (0)16 51 34 89 +46 (0)16 14 03 57 Fax +46 (0)16 51 34 77 For gliding only **PPR**
ESLÖV ESME 555054N 0131952E 1 NM NE 296 ft	12/30 06/24	799x20 450x30	ASPH Grass	No No	100LL O/R	123.150	Non-licensed AD Municipal +46 (0)705 54 70 00 THR 06 displaced 90 m. **PPR** for take-off/landing exercises by visiting ACFT, +46 (0)705 54 70 00. RWY 06/24 not to be used for repeated take-off/landing exercises. Right hand traffic circuit when RWY 24 and 30 is in use.

AERODROME Location Indicator Coordinates (ARP) Location Elevation (ft)	RWY	Dimensions (m)	Surface	Light	ATS Fuel	COM FREQ (MHz)	Category Owner/Operator TEL Fax Regulations and restrictions Remarks
FAGERHULT ESMF 562316N 0132814E (*) 1 NM N 378 ft	17/35	590x30	Grass	No	-	-	Non-licensed AD Private +46 (0)706 27 22 76 +46 (0)703 82 33 74 THR 17 displaced 100 m THR 35 displaced 30 m
FALKENBERG/Morup ESGF 565817N 0122321E (*) 36 ft	09/27	700x30	Grass	Yes	100LL	-	Non-licensed AD Falkenbergs flygklubb +46 (0)346 944 80 +46 (0)346 943 13
FALKÖPING ESGK 581012N 0133516E NE 1.5 NM from Falköping 785 ft	04/22	1316x30	ASPH	Yes	100LL O/R	123.350	Non-licensed AD Municipal +46 (0)515 806 30 **PPR** NOV-APR PCL on freq 123.350 MHz. Right hand circuit to RWY 04. APR-OCT, winch launching of gliders. Infrequent winter maintenance. Other activities may occur on RWY, TWY and apron.
FJÄLLBACKA ESTF 583749N 0111854E (*) 1.5 NM NNE 6 ft	06/24	740x34	Grass	No	100 LL	123.200	Non-licensed AD Municipal +46 (0)705 33 78 16 +46 (0)525 180 00 (Exch) +46 (0)705 12 49 35 **PPR** estf@telia.com
GAGNEF ESVG 603303N 0150441E (*) 2.7 NM S 575 ft	08/26	600x30	Grass	No	-	123.550	Non-licensed AD Gagnef flygklubb +46 (0)739 92 54 93 +46 (0)730 52 59 89 +46 (0)739 12 46 73 info@gagnefsflygklubb.se www.gagnefsflygklubb.se Right hand traffic circuit to RWY 08. Other activities may occur on RWY. RWY conditions wet and swampy after heavy rain.
GARGNÄS ESUG 651819N 0175832E (*) 0.3 NM SE 980 ft	17/35	940x30	Grass	No	100LL	123.450	Non-licensed AD Municipal +46 (0)952 213 29 +46 (0)952 212 08 +46 (0)706 07 27 32 **PPR** THR 17 displaced 50 m THR 35 displaced 90 m Right hand traffic circuit to RWY 35.

AERODROME Location Indicator Coordinates (ARP) Location Elevation (ft)	RWY	Dimensions (m)	Surface	Light	ATS Fuel	COM FREQ (MHz)	Category Owner/Operator TEL Fax Regulations and restrictions Remarks
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 571732N 0140814E (*) 7 NM NNE Värnamo 555 ft	04/22	2020x40	ASPH	Yes	-	136.250	MIL, non-licensed AD Military +46 (0)457 47 10 00 **PPR** Ronneby Airport Manager F17 TEL +46 (0)457 47 10 00
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
HÄRNÖSAND/Myran ESUH 623801N 0175853E (*) 271 ft	10/28	800x23	Gravel	No	100LL	123.450	Non-licensed AD Härnösand flygklubb +46 (0)611 167 60 +46 (0)611 186 44 +46 (0)611 155 26 +46 (0)611 229 96 Right hand traffic circuit to RWY 28.
HÄSSLEHOLM/Bokeberg ESFA 560801N 0135244E (*) 3.8 NM ESE 105 ft	04/22	830x40	Grass	No	91/96UL	123.600	Non-licensed AD Hässleholm flygklubb +46 (0)44 853 64 THR 22 displaced 120 m.
HÖGANÄS ESMH 561105N 0123433E (*) 1 NM SE 21 ft	14/32 06/24	800x50 460x50	Grass Grass	Yes No	100LL 91/96 UL Jet A1 100LL 91/96 UL Jet A1	123.550	Non-licensed AD Nordvästra Skånes Flygklubb +46 (0)42 34 29 80 (AD) +46 (0)702 50 26 19 RWY 14/32: length during darkness 650m. PCL RWY 14/32: transmit 15 sec on 123.550 Right hand traffic circuit to RWY 06 and 32. Lighted obst 194 ft GND W THR 06. www.nsf.se
IDRE ESUE 615211N 0124122E 1 NM NW 1480 ft	15/33	1558x30	ASPH	Yes	-	-	Non-licensed AD Private +46 (0)706 74 04 45 THR 15 displaced 591 m. Right hand traffic circuit to RWY 33.
JOKKMOKK ESNJ 662948N 0200851E 10 NM SE 901 ft	14/32	2000x25	ASPH	Yes	-	128.450	MIL, non-licensed AD Military **PPR** 72 HR TEL: +46 (0)920 23 43 02
JÖNKÖPING ESGJ Details, see AD 2	01/19 11/29	2203x45 525x25	ASPH Grass	Yes No	TWR	Yes	Licensed, instrument AD Municipal
KALMAR ESMQ Details, see AD 2	16/34 05/23	2050x45 656x40	ASPH ASPH	Yes No	TWR/APP	Yes	Licensed, instrument AD Municipal
KARLSBORG ESIA Details, see AD 2	06/24	2289x40	ASPH	Yes	TWR	Yes	MIL, non-licensed AD FM/Swedish Armed Forces
KARLSKOGA ESKK 592040N 0142941E 1.5 NM NNW 400 ft	03/21	1499x30	ASPH	Yes	100LL Jet A1	123.525	Non-licensed AD Private +46 (0)586 533 60 Fax +46 (0)586 517 31 **PPR** Right hand traffic circuit to RWY 21. Other motor and glider activity may occur.
KARLSTAD ESOK Details, see AD 2	03/21	2516x45	ASPH	Yes	TWR	Yes	Licensed, instrument AD Municipal

AERODROME Location Indicator Coordinates (ARP) Location Elevation (ft)	RWY	Dimensions (m)	Surface	Light	ATS Fuel	COM FREQ (MHz)	Category Owner/Operator TEL Fax Regulations and restrictions Remarks
KATRINEHOLM ESVK 590120N 0161313E (*) 1 NM N 132 ft	15/33	700x40	Grass	No	91/96	123.200	Non-licensed AD Katrineholm flygklubb +46 (0)150 150 72 (AD) +46 (0)705 40 01 93 +46 (0)702 74 16 54 **PPR** THR 33 displaced 100 m. Right hand traffic circuit for powered aircraft when RWY 33 is in use.
KIRUNA ESNQ Details, see AD 2	03/21	2502x45	ASPH	Yes	TWR	Yes	Licensed, instrument AD Swedavia AB
KRAMFORS-SOLLEFTEÅ ESNK Details, see AD 2	17/35	2001x45	ASPH	Yes	AFIS	Yes	Licensed, instrument AD Municipal
KRISTIANSTAD ESMK Details, see AD 2	01/19	2215x45	ASPH	Yes	TWR	Yes	Licensed, instrument AD Municipal
KÅGERÖD ESMJ 555942N 0130312E (*) 276 ft	11/29	800x35	Grass	No	-	-	Non-licensed AD Private +46 (0)418 802 50 +46 (0)418 802 51 **PPR** THR 11 displaced 200 m. THR 29 displaced 150 m.
KÖPING ESVQ 593139N 0155811E (*) 25 ft	07/25	700x50	Grass	Yes	100LL UL91	123.150	Non-licensed AD Köpings flygklubb +46 (0)730 94 70 51 +46 (0)736 29 09 05 +46 (0)705 11 01 69 Traffic pattern 1000 ft AMSL. THR 07 displaced 100 m. Right hand traffic circuit to RWY 25. Avoid noise sensitive areas. Climb to 700 ft AMSL track 050 or 230 until initiating turn. **PPR** for repeated TGL. No TGL 1900-0700 (1800-0600). No flying below 2000 ft over city. Model flying area south of RWY, GND-1550 ft AMSL. PCL on freq 123.150 MHz, 12 sec duration. kopings.fk@gmail.com www.kopingsfk.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
LANDSKRONA ESML 555640N 0125210E (*) 4.3 NM NNE 194 ft	12R/30L 12L/30R	1180x30 1050x90	ASPH Grass	Yes No	100LL 91/96UL	123.350	Non-licensed AD Municipal +46 (0)418 750 10 Fax +46 (0)418 750 34 **PPR** for repeated take-offs and landings. THR 12R displaced 105 m. THR 30L displaced 60 m. Right hand traffic circuit to RWY 12R for powered aeroplanes and helicopters and to RWY 30R for gliders. PCL on freq 123.350 MHz, 3 transmissions within 5 sec. Motor activity may occur.
LIDKÖPING ESGL 582755N 0131028E 2.5 NM S Lidköping 200 ft	06/24 06/24 GRASS	1990x45 875x45	ASPH Grass	Yes No	100LL 91/96 Jet A1 100LL 91/96 Jet A1	131.765	Non-licensed AD Municipal +46 (0)709 68 92 23 +46 (0)510 53 51 00 Glider info **PPR** PCL on freq 131.765 MHz, 10 sec duration. Right hand circuit applies during take-off and landing on glider strip 06. Repeated take-off and landing exercises (TGL) during darkness only permitted ordinary Tuesdays 1700-2000 (1600-1900). andre.persson@lidkoping.se www.lidkopingairport.com
LINKÖPING/Malmen ESCF Details, see AD 2	01/19 08/26	2214x35 1870x37	ASPH ASPH	Yes Yes	TWR	Yes	MIL, licensed, instrument AD FM/Swedish Armed Forces
LINKÖPING/Saab ESSL Details, see AD 2	11/29	2135x45	ASPH	Yes	TWR	Yes	Licensed, instrument AD Private
LJUNGBY/Feringe ESMG 565701N 0135518E 7 NM NE Ljungby 538 ft	01/19	1150x30	ASPH	No	100LL Jet A1	122.505	Non-licensed AD Feringe flygklubb +46 (0)705 98 19 85 +46 (0)370 819 85 **PPR** Motor activities may occur.
LJUNGBYHED ESTL Details, see AD 2	11L/29R 11R/29L	1998x40 1986x40	ASPH ASPH/ CONC	Yes Yes	TWR	Yes	Licensed, instrument AD Municipal
LJUSDAL ESUL 614901N 0160015E (*) 2.0 NM WSW 485 ft	09/27	620x35	Grass	No	100LL 91/96	123.200	Non-licensed AD Ljusdal flygklubb +46 (0)651 107 46 +46 (0)651 334 56 +46 (0)706 95 50 09 Overflying of surface quarry on 614800N 0155900E 1000m S of Ljusdal AD should be avoided below 2000 ft MSL.

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
LUDVIKA ESSG 600518N 0150547E 2 NM WSW Ludvika 894 ft	01/19	819x30	ASPH	Yes	91/96	123.150	Non-licensed AD Municipal +46 (0)70 176 40 47 Turbulence over RWY when wind from the east. Motor activities on RWY weekdays 1 APR-30 SEP 0600-1200 (0500-1100) 1 OCT-31 MAR 0600-1500 (0500-1400)
LULEÅ/Kallax ESPA Details, see AD 2	14/32	3350x45	ASPH	Yes	TWR	Yes	MIL, licensed, instrument AD FM/Swedish Armed Forces
LYCKSELE ESNL Details, see AD 2	14/32	2092x45	ASPH	Yes	AFIS	Yes	Licensed, instrument AD Municipal
MALMÖ ESMS Details, see AD 2	17/35 11/29	2800x45 799x18	ASPH ASPH	Yes No	TWR	Yes	Licensed, instrument AD Swedavia AB
MALUNG/Skinnlanda ESVM 603932N 0134336E (*) 1.7 NM SSE 975 ft	16/34	800x23	ASPH	Yes	91/96	123.330	Non-licensed AD Malungs flygklubb +46 (0)702 76 22 89 +46 (0)705 80 91 80 +46 (0)703 98 33 20 Right hand traffic circuit when RWY 16 is in use. RWY and lightning facilities TEMPO CLSD during winter season. Info on www.malungsflygklubb.se
MELLANSEL ESUI 632331N 0181914E (*) 13 NM NW Örnsköldsvik 265 ft	09/27	795x35	Grass	No	91/96	123.400	Non-licensed AD Mellansels Flygklubb +46 (0)660 910 54 +46 (0)660 922 00 Further 235 m available in emergency when landing RWY 27.
MOHED ESUM 611728N 0165047E (*) 6 NM W Söderhamn 215 ft	12/30	800x30	ASPH	Yes	91/96	123.600	Non-licensed AD Municipal +46 (0)703 51 50 66
MORA/Siljan ESKM Details, see AD 2	16/34	1814x45	ASPH	Yes	AFIS	Yes	Licensed, instrument AD Municipal
MUNKFORS ESKO 594756N 0132926E (*) 1.6 NM S 279 ft	03/21	700x40	Grass	No	100LL	-	Non-licensed AD Munkfors flygklubb +46 (0)552 303 89 (AD) +46 (0)563 510 74 Hangar
NORRKÖPING/Kungsängen ESSP Details, see AD 2	09/27 11/29	2205x45 600x35	ASPH Grass	Yes No	TWR	Yes	Licensed, instrument AD Municipal

AERODROME Location Indicator Coordinates (ARP) Location Elevation (ft)	RWY	Dimensions (m)	Surface	Light	ATS Fuel	COM FREQ (MHz)	Category Owner/Operator TEL Fax Regulations and restrictions Remarks
NORRTÄLJE ESSN 594358N 0184147E (*) 1.6 NM S 40 ft	07/25	830x18	ASPH	Yes	100LL 91/96 Jet A1	123.325	Non-licensed AD Roslagens flygklubb +46 (0)176 163 08 info@rfk.nu RWY 07 down slope. RWY 25 up slope. Right hand traffic circuit to RWY 07. RWY lights 3 m outside ASPH edge. Only 650 meter starting from THR RWY 25. PCL on freq 123.325 MHz 8 sec duration. **PPR** for TGL during darkness. TGL not allowed 2100-0600 (2000-0500) during weekdays and 1800-0800 (1700-0700) during HOL
OPTAND ESNM 630731N 0144830E (*) 5 NM SE Östersund 1236 ft	18/36 15/33	1000x18 750x40	ASPH Grass	Yes No	100LL	123.550	Non-licensed AD Östersunds flygklubb +46 (0)63 352 45 +46 (0)63 51 01 50 Right hand traffic circuit to RWY 33 and 36. Situated near restricted area ES R08C.
ORSA ESNR 611132N 0144309E (*) 1 NM WNW Mässbacken 683 ft	03/21	1000x30	ASPH	No	-	123.400	Non-licensed AD Orsa Tallhed Flygsällskap +46 (0)250 55 01 47 +46 (0)705 48 13 81 +46 (0)706 38 10 70 +46 (0)762 73 11 01 Motor activities on RWY may occur. Grass area preferably for ultra light, winchlaunching of gliders and parachute jumping.
OSKARSHAMN ESMO 572107N 0162954E NNE 5.4 NM from Oskarshamn 96 ft	01/19	1504x30	ASPH	No	-	123.350	Non-Licensed AD Municipal +46 (0)72 562 19 86 for info and fuel. No snow clearance during winterperiod. Other activities may occur on RWY, TWY and apron se NOTAM. servicecenter@oskarshamn.se www.oskarshamn.se/flygplatsen
OVIKEN ESUO 630230N 0140005E (*) 1640 ft	18/36	750x20	Grass	No	91UL 100LL O/R	123.150	Non-licensed AD Private +46 (0)702 88 64 19 +46 (0)706 41 59 41 **PPR** Hangar Caution - Low level turbulence/Lee wave rotor in wind directions from SW to NW.
PAJALA ESUP Details, see AD 2	11/29	2300x45	ASPH	Yes	AFIS	Yes	Licensed, instrument AD Municipal

AERODROME Location Indicator Coordinates (ARP) Location Elevation (ft)	RWY	Dimensions (m)	Surface	Light	ATS Fuel	COM FREQ (MHz)	Category Owner/Operator TEL Fax Regulations and restrictions Remarks
PITEÅ ESNP 652354N 0211539E (*) 8 NM NW 43 ft	16/34	1000x25	ASPH	Yes	100LL Jet A1	123.550	Non-licensed AD Piteå flygklubb +46 (0)911 623 15 +46 (0)706 87 38 64 **PPR**
RAMSELE ESUR 632925N 0162901E (*) 2.7 NM S 660 ft	14/32	740x30	Grass	No	100LL 91/96	123.600	Non-licensed AD Ramsele flygklubb +46 (0)623 200 05 +46 (0)623 320 18 THR 14 displaced 30 m. THR 32 displaced 60 m.
RONNEBY ESDF Details, see AD 2	01/19 12/30	2331x45 600x30	ASPH Grass	Yes No	TWR	Yes	MIL, licensed instrument AD FM/Swedish Armed Forces
RÅDA ESFR 582953N 0130311E (*) 230 ft	18/36	1987x35	ASPH	Yes	-	-	MIL, non-licensed AD Military +46 (0)510 87 75 00 (Airport manager) **PPR** Permission will be granted in exceptional cases only.
SANDVIK ESFS 570406N 0165151E (*) 16 NM NNE Borgholm 36 ft	17/35	600x25	Grass	No	-	123.450	Non-licensed AD Private +46 (0)720 62 60 53 +46 (0)704 61 66 75 +46 (0)705 40 33 76 **PPR** Available APR-SEP
SILJANSNÄS ESVS 604706N 0144938E (*) 1 NM NW 611 ft	14R/32L 14L/32R	850x16 850x35	ASPH Grass	No No	100LL 91/96	123.550	Non-licensed AD Siljansnäs flygklubb +46 (0)247 228 80 +46 (0)247 228 51 Right hand traffic circuit to RWY 14.
SJÖBO SÖVDE ESMI 553554N 0134038E (*) 2 NM SSW Sjöbo 118 ft	12/30	950x50	Grass	Yes	91/96 UL	123.650	Non-licensed AD Municipal +46 (0)416 160 51 For powered aircraft right hand traffic circuit when RWY 30 is in use. For gliders right hand traffic circuit when RWY 12 is in use. APR-NOV extensive launchning of gliders.
SKELLEFTEÅ ESNS Details, see AD 2	10/28	2520x45	ASPH	Yes	TWR	Yes	Licensed, instrument AD Municipal
SKÖVDE ESGR 582722N 0135822E 5.4 NM NE from Skövde 324 ft	01/19	1736x30	ASPH	Yes	100LL 91/96 Jet A1	123.055	Non-licensed AD Municipal +46 (0)500 49 86 00 info@esgr.se **PPR** 01 NOV-31 MAR PCL on freq 123.055 MHz, 10 sec duration.

AERODROME Location Indicator Coordinates (ARP) Location Elevation (ft)	RWY	Dimensions (m)	Surface	Light	ATS Fuel	COM FREQ (MHz)	Category Owner/Operator TEL Fax Regulations and restrictions Remarks
SMÅLANDSSTENAR ESMY 571007N 0132624E (*) 540 ft	04/22	915x15	ASPH	Yes	100LL	123.200	Non-licensed AD AB Varmförzinkning +46 (0)371 343 00 MON-FRI 0630-1530 (0530-1430) info@varmforzinkning.se **PPR** After TKOF RWY 22 climb on RWY heading until 700 ft AMSL (160 ft AGL). Turn right and climb on heading 235° to MNM 1500 ft AMSL (1000 ft AGL). PCL on freq 123.200 MHz, 20 sec duration.
SOLLEFTEÅ ESNB 631016N 0165908E (*) 2.4 NM WSW 433 ft	14/32	820x30	ASPH	No	Jet A1	123.350	Non-licensed AD Sollefteå flygklubb +46 (0)702 81 65 24 solleftea.flygklubb@gmail.com
STEGEBORG ESVE 582600N 0163618E (*) 6 ft	08/26	800x30	Grass	No	-	123.550	Non-licensed AD Stegeborgs Egendom AB +46 (0)121 420 04 stegeborg@stegeborg.se www.stegeborg.se
STOCKHOLM/Arlanda ESSA Details, see AD 2	01L/19R 01R/19L 08/26	3301x45 2500x45 2500x45	ASPH ASPH ASPH	Yes Yes Yes	TWR	Yes	Licensed, instrument AD Swedavia AB
STOCKHOLM/Bromma ESSB Details, see AD 2	12/30	1668x45	ASPH	Yes	TWR	Yes	Licensed, instrument AD Swedavia AB
STOCKHOLM/Skavsta ESKN Details, see AD 2	08/26 16/34	2878x45 2043x40	ASPH ASPH	Yes Yes	TWR	Yes	Licensed, instrument AD Private
STOCKHOLM/Skå-Edeby ESSE 592042N 0174426E (*) 10 NM W 17 ft	11/29 03/21	800x50 650x65	Grass Grass	No No	100LL 91/96 UL	123.200	Non-licensed AD Municipal +46 (0)706 95 40 48 **PPR** for commercial operations NOV-APR soft or CLSD RWY, call for condition. Helicopter traffic not accepted exc police and rescue operations. ATZ established, ref ENR 2.2. Hangar and repair. TGL RWY 11 not allowed. www.skaedebyflygfalt.se
STOCKHOLM/Västerås ESOW Details, see AD 2	01/19	2581x45	ASPH	Yes	TWR	Yes	Licensed, instrument AD Municipal
STORUMAN ESUD 645739N 0174148E ESE 16.0 NM from Storuman 915 ft	15/33	2283x40	ASPH	No	-	-	Non-licensed AD Municipal +46 (0)951 141 07 **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
STORVIK/Lemstanäs ESOL 603516N 0163512E (*) 210 ft	06/24	620x23	ASPH	No	91/96 Jet A1	123.550	Non-licensed AD Västra Gästrike flygklubb +46 (0)290 375 97 Right hand traffic circuit to RWY 06. THR 06 displaced 150 m.
STRÖMSTAD/Näsinge ESGS 590101N 0112037E (*) 7 NM NE 115 ft	03/21	900x53	Grass	No	91/96 UL JET A1	123.550	Non-licensed AD Municipal +46 (0)526 190 00 (Exch) +46 (0)526 311 37 +46 (0)733 74 72 00 +47 913 23 326 **PPR**
SUNDBRO ESKC 595522N 0173212E (*) 5 NM NW Uppsala 62 ft	03/21 08/26 14/32	630x40 470x60 435x35	Grass Grass Grass	Yes No No	100LL 91/96	123.350	Non-licensed AD Uppsala Flygklubb +46 (0)18 35 70 13 (AD) +46 (0)704 93 32 40 (Info, PPR) +46 (0)708 84 99 49 (Info, PPR) www.uppsalaflygklubb.se Situated within Uppsala CTR. Right hand traffic circuit to RWY 03 and 08. TKOF RWY 21: immediate right turn to track 217° MAG. PCL on freq 123.350 MHz, 5 transmissions of APRX 0.5 sec during 10 sec Flying permitted: MON-THU: 0700-1900 (0600-1800) FRI: 0700-1600 (0600-1500) SAT, SUN, day before HOL, HOL: 0800-1600 (0700-1500) Other times **PPR**. In addition between 15 JUN-15 AUG: SUN, day before HOL, HOL: **PPR** **PPR** for school flights and glider towing. Landing with gliders exempted from **PPR**. Fuel HX: Cash
SUNDSVALL-TIMRÅ ESNN Details, see AD 2	16/34	1954x45	ASPH	Yes	TWR	Yes	Licensed, instrument AD Municipal
SUNNE ESKU 595137N 0130646E (*) 1.5 NM NW 380 ft	01/19	770x100	Grass	No	100LL	123.200	Non-licensed AD Municipal +46 (0)565 101 11 +46 (0)565 77 01 55 +46 (0)703 73 05 66 THR 01 displaced 130 m.
SVEG ESND Details, see AD 2	09/27	1701x30	ASPH	Yes	AFIS	Yes	Licensed, instrument AD Municipal
SÅTENÄS ESIB Details, see AD 2	01/19 11/29	2264x45 1933x40	ASPH ASPH	Yes Yes	TWR	Yes	MIL, licensed, instument AD FM/Swedish Armed Forces

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 76 650 (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, +46 (0)73 323 23 91 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	100LL	123.550	Non-licensed AD Private +46 (0)522 824 14 +46 (0)522 355 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)490 25 40 00 **PPR** +46 (0)703 98 27 30 THR 33 displaced 300 m. PCL on freq 131.615 MHz, 20 sec duration. www.vastervik.se/Trafik-och-infrastruktur/vasterviks-flygplats/Fakta-om-flygplatsen/
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

ESNX 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT Type, LEN INTST	THR LGT Colour WBAR	VASIS (MEHT)	TDZ LGT LEN	RWY Centre Line LGT LEN, Spacing Colour INTST	RWY Edge LGT LEN, Spacing Colour INTST	RWY End LGT Colour WBAR	SWY LGT LEN, Colour
1	2	3	4	5	6	7	8	9
12	Barrette CL CAT I 720 m LIL/LIH	Green	PAPI Left/3.00° (52.5 ft)	-	-	2500/60 m White Caution zone 600 m yellow LIL/LIH	Red	-
30	Calvert CAT I 900 m LIL/LIH	Green WBAR	PAPI Left/3.00° (55.8 ft)	-	-	2500/60 m White Caution zone 600 m yellow LIL/LIH	Red	-

10 Remarks: -

ESNX 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1.	ABN/IBN location, characteristics and hours of operation	-
2.	LDI location and LGT Anemometer location and LGT	Lighted windsock at apron -
3.	TWY edge and centre line lighting	Edge: TWY A, B CL: -
4.	Secondary power supply/switch-over time	Available/Less than 1 sec for departures when LVP is established.
5.	Remarks	-

ESNX 2.16 HELICOPTER LANDING AREA

RWY 12/30 to be used

ESNX 2.17 ATS AIRSPACE

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

ESNX 2.18 ATS COMMUNICATION FACILITIES

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

ESNX 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
LOC 12 ILS CAT I (8° E 2020)	ARV	109.35 MHz	H24 *	653453.1N 0191831.6E		590 m beyond THR 30 ILS Class I/E/2
GP		331.85 MHz	H24 *	653551.9N 0191546.1E		Angle 3.0° RDH 50.9 ft 295 m past THR left side. During winter angle may vary btn 3.0° and 3.25° due snow
L 12	AN	381 kHz	H24 *	653802.1N 0190834.9E		Range 30 NM
LOC 30 ILS CAT I (8° E 2020)	NX	111.50 MHz	H24 *	653559.9N 0191506.6E		255 m beyond THR 12 ILS Class I/E/2
GP		332.90 MHz	H24 *	653513.9N 0191742.9E		Angle 3.0° RDH 49.9 ft 300 m past THR 30 right side During winter angle may vary btn 3.0° and 3.25° due snow.
L 30	AS	358 kHz	H24 *	653343.8N 0192203.4E		Range 15 NM
DME	ARV	109.35 MHz	H24 *	653552.0N 0191546.3E	1276 ft	Co-located with GP 12 DME channel 30Y
DME	NX	111.50 MHz	H24 *	653514.0N 0191743.1E	1278 ft	Co-located with GP 30 DME channel 52X

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

ESNX 2.20 LOKALA TRAFIKFÖRESKRIFTER

För skol- och övningsflygning gäller PPR under tider för TWR/AFIS. PPR TEL 0960 173 85.

Högervarv gäller till RWY 30 vid start- och landningsövningar utanför TWR öppethållning.

Väntplats på TWY A är inte tillgänglig under AFIS öppethållningstid och när banan är upptagen av annat luftfartyg.

LOCAL TRAFFIC REGULATIONS

PPR by school and training flights during hours of TWR/AFIS. PPR TEL +46 (0)960 173 85.

Right hand traffic circuit applies to RWY 30 during take-off and landing exercises outside hours of TWR.

Holding on TWY A is not available during AFIS hours and when RWY is blocked by other ACFT.

ESNX 2.21 MINSKNING AV BULLERSTÖRNING

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

NOISE ABATEMENT PROCEDURES

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

ESNX 2.22 FLYGPROCEDURER

1. Startprocedurer, omnidirectional

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 2400 ft AMSL. Continue climb to appropriate MSA.	Antenna	3522	240°/14310
30	Climb straight ahead to MNM turning ALT 3000 ft AMSL. Continue climb to appropriate MSA.	Antenna	3522	248°/15400

2. Lågsiktsprocedurer (LVP)

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

Lägsta RVR för avgående trafik är 400 m.

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

Meddelande om att LVP är i kraft lämnas av ATS.

LVP-beskrivning:

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

Meddelande om att LVP upphör lämnas av ATS.

2. Low visibility procedures (LVP)

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

Minimum RVR for departing traffic is 400 m.

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

The application of LVP will be announced by ATS.

Description of LVP:

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

ATS announces when LVP no longer applies.

3. VFR-flygning inom Arvidsjaur CTR

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

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

Väntläge NORD, vägslutet vid Bäcklund.

3. VFR flights in Arvidsjaur CTR

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

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

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

ESNX 2.23 ÖVRIG INFORMATION

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

ADDITIONAL INFORMATION

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

ESNX 2.24 TILLHÖRANDE KARTOR / RELATED CHARTS

AD chart		ESNX 2-1
AOC	RWY 12/30	ESNX-3-1
Area chart		ESNX 4-1
List of waypoints and significant points		ESNX 4-3
ATC Surveillance Minimum ALT chart		ESNX 4-91
IAC	ILS z or LOC z RWY 30	ESNX 5-1
IAC	ILS y or LOC y RWY 30	ESNX 5-2
IAC	NDB RWY 30 (Cat A/B/C)	ESNX 5-3
IAC	ILS z or LOC z RWY 12	ESNX 5-4
IAC	ILS y or LOC y RWY 12	ESNX 5-5
IAC	NDB RWY 12	ESNX 5-6
IAC	RNP RWY 12	ESNX 5-7
IAC	RNP RWY 30	ESNX 5-11
VAC		ESNX 6-1

AD 2 AERODROMES

ESSD 2.1 AERODROME LOCATION INDICATOR AND NAME

ESSD – BORLÄNGE

ESSD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	ARP coordinates and site at AD	602520N 0153054E RWY 1100 m in from THR 14
2.	Direction and distance from (city)	SSE 4 NM from Borlänge
3.	Elevation/Reference temperature	504 ft/+18.5°C
4.	Geoid undulation at AD ELEV PSN	95 ft
5.	MAG VAR/Annual change	5° E 2020/+0.2 increasing
6.	Administration, address, telephone, fax, AFS	AB Dalaflyget Överstevägen 50 SE-784 63 Borlänge TEL: +46 (0)243 645 00 E-mail: bleinfo@dalaflyget.se AFS: ESSDZTZX Website: dalaflyget.se
7.	Types of traffic permitted (IFR/VFR)	IFR/VFR. Max RWY ref code 4C
8.	Remarks	-

ESSD 2.3 OPERATIONAL HOURS

1.	AD Administration AD Operating hours	MON-FRI 0700-1500 (0600-1400) H24
2.	Customs and immigration	CUST: O/R +46 (0)8 405 02 50 Immigration: MON-FRI 0700-1500 (0600-1400)
3.	Health and sanitation	-
4.	AIS Briefing Office	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
5.	ATS Reporting Office (ARO)	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
6.	MET Briefing Office	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
7.	ATS	MON-FRI 0700-1500 (0600-1400)
8.	Fuelling	H24 Self-service MON-FRI 0700-1530 (0600-1430) Other hours O/R
9.	Handling	O/R
10.	Security	O/R
11.	De-Icing	O/R
12.	Remarks	Increased charges outside TWR HR of OPS

ESSD 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: Stationary 12,000 l, truck 20,000 l, 800 l/min 100LL: Stationary 10,000 l
4.	De-icing facilities	Available, Type I and II. De-icing channel 121.780.
5.	Hangar space for visiting ACFT	O/R
6.	Repair facilities for visiting ACFT	O/R
7.	Remarks	For 100LL and Jet A1, self-service H24 with BP card. Electrical charging poles, connectors type 2 and 220/380V, stand 4, 5 and 6.

ESSD 2.5 PASSENGER FACILITIES

1.	Hotels	In Borlänge
2.	Restaurants	At AD and in the vicinity
3.	Transportation	Buses, taxis, rental cars
4.	Medical facilities	In Borlänge
5.	Bank and Post Office	In Borlänge
6.	Tourist Office	In Borlänge
7.	Remarks	-

ESSD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	CAT 5. Higher O/R, MAX CAT 9.
2.	Rescue equipment	By arrangement, municipal rescue service
3.	Capability for removal of disabled aircraft	Suitable for aircraft up to B737/A321. Contact: +46 (0)70 582 63 11, +46 (0)70 683 63 60, +46 (0)70 670 66 40
4.	Remarks	Only during ATS operational hours. During persiods 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. NCO, NCC and SPO below 5700 kg exempted or O/R during tower hours with 30 min PN.

ESSD 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	Snowploughs, sweepers, blowers, slingers, spreaders.
2.	Clearance priorities	RWY, TWY, Apron, Emergency access road.
3.	Remarks	RWY, TWY and apron de-iced with UREA/SAND Snowclearance/Moving outside TWR HR of OPS can be conducted.

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

1. Startprocedurer, omnidirectional

FLIGHT PROCEDURES

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 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)

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

Dagermarkering och belysning.
Se ESSD-2-1

LVP beskrivning.

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

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

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

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.

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

2. Low visibility procedures (LVP)

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.

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.

Ground marking and lighting.
See ESSD-2-1

Description of LVP.

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

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

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

3. VFR-flygning inom Borlänge TMA/CTR

Normala in- och utpasseringspunkter se ESSD 6-1

Väntlägen se ESSD 6-1

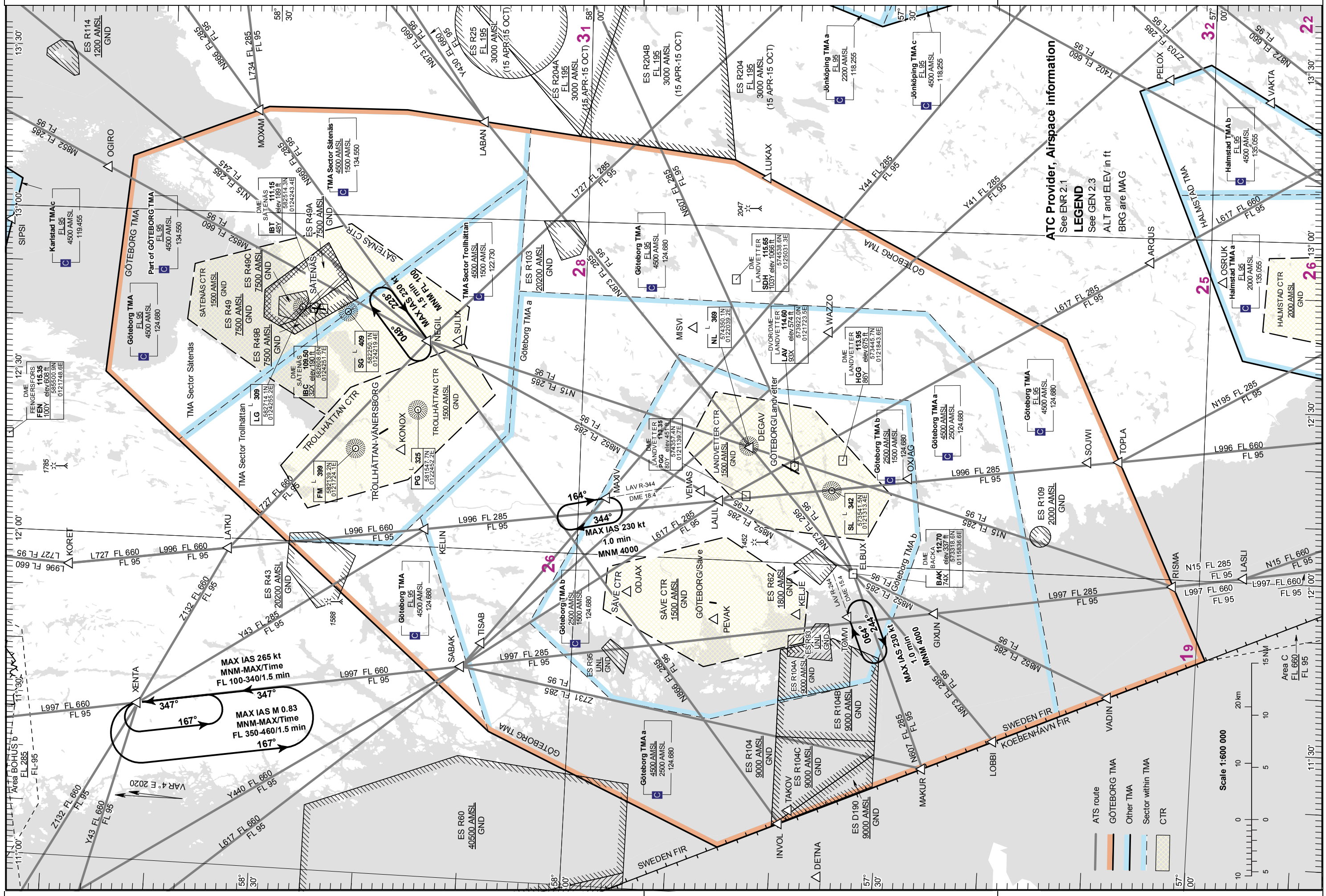
Avbrott i radioförbindelse se ESSD 6-1

3. VFR flight within Borlänge TMA/CTR

Normal entry and exit points see ESSD 6-1

Holdings see ESSD 6-1

Communication failure see ESSD 6-1

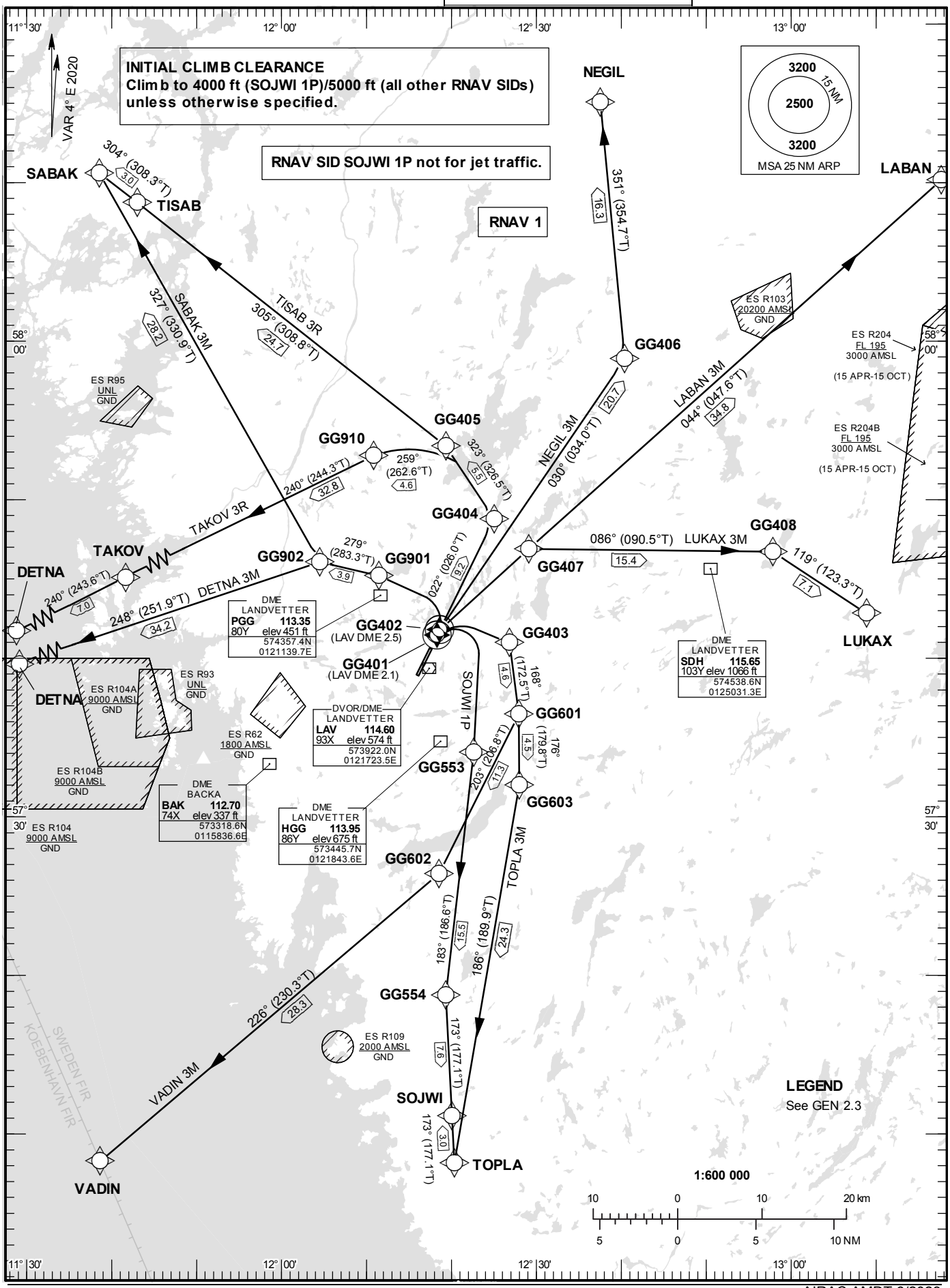

ATC Provider, Airspace information
See ENR 2.1
LEGEND
See GEN 2.3
ALT and ELEV in ft
BRG are MAG
GÖTEBORG TMA
TMA Sector Sätenäs
TMA Sector Trollhättan
SÄTENÄS CTR
TROLLHÄTTAN CTR
TROLLHÄTTAN-VÄNERSBORG
SÄVE CTR
GÖTEBORG/Säve
GÖTEBORG/Landvetter
LANDVETTER CTR
HALMSTAD TMA
HALMSTAD CTR
SWEDEN FIR
KOEBENHAVN FIR
Area BOHUS b
Area C
Scale 1:600 000
ATS route
GÖTEBORG TMA
Other TMA
Sector within TMA
CTR
MAX IAS 265 kt
MNM-MAX/Time
FL 100-340/1.5 min
MAX IAS M 0.83
MNM-MAX/Time
FL 350-460/1.5 min
MAX IAS 230 kt
1.0 min
MNM 4000
MAX IAS 230 kt
1.5 min
MNM FL 100

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.

When instructed for line-up, squawk assigned SSR-code.

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**

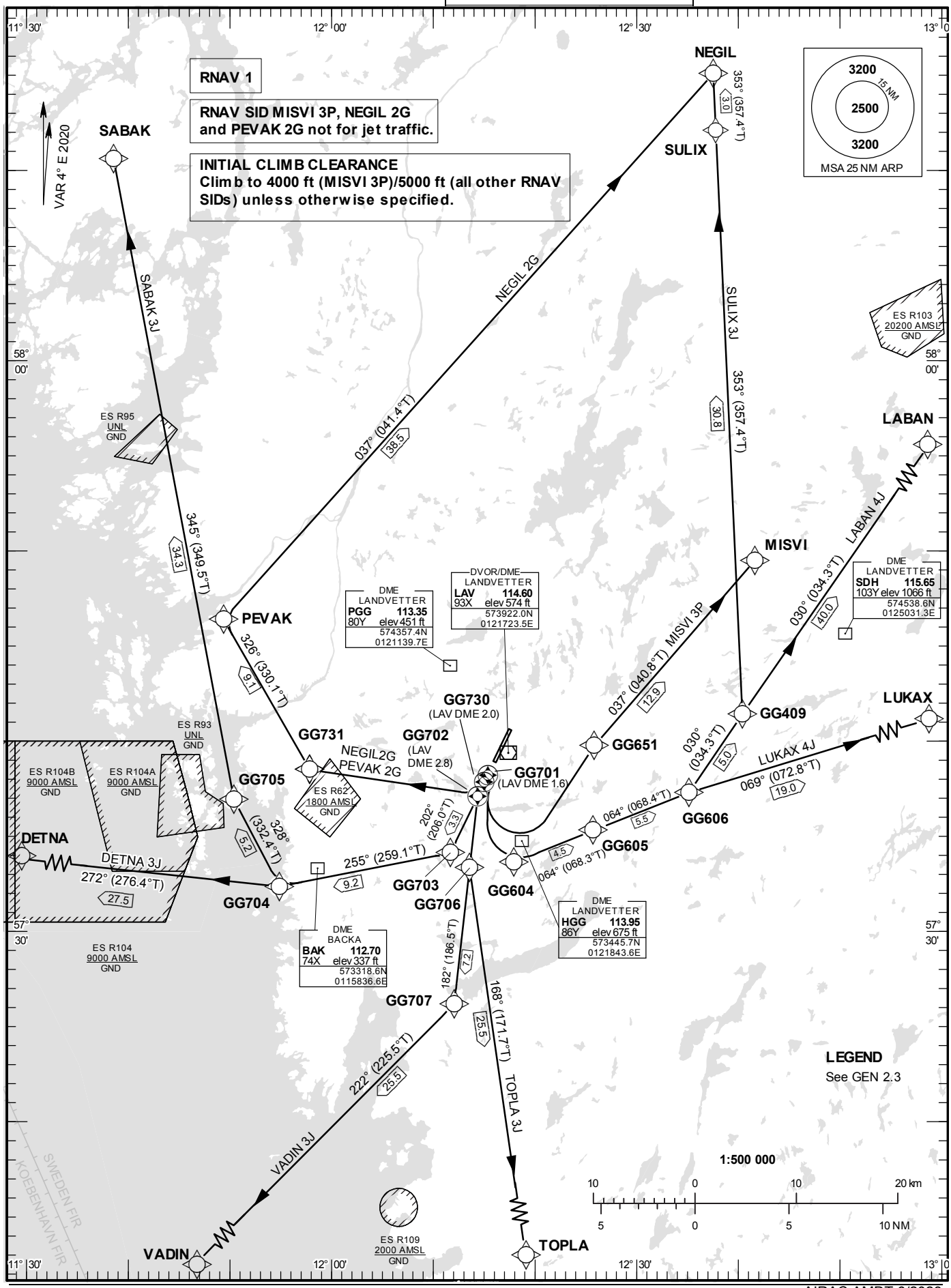
ACFT unable to follow RNAV SID: Report “unable RNAV SID due RNAV type” to Clearance Delivery and “unable RNAV SID” to Göteborg Approach at first contact.
Climb on track 022° to LAV DME 2.1 (MNM 900 ft before turn). Turn left to track 296° (max 210 kt IAS until established on 296°). Expect radar vectors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

When instructed for line-up, squawk assigned SSR-code.

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**

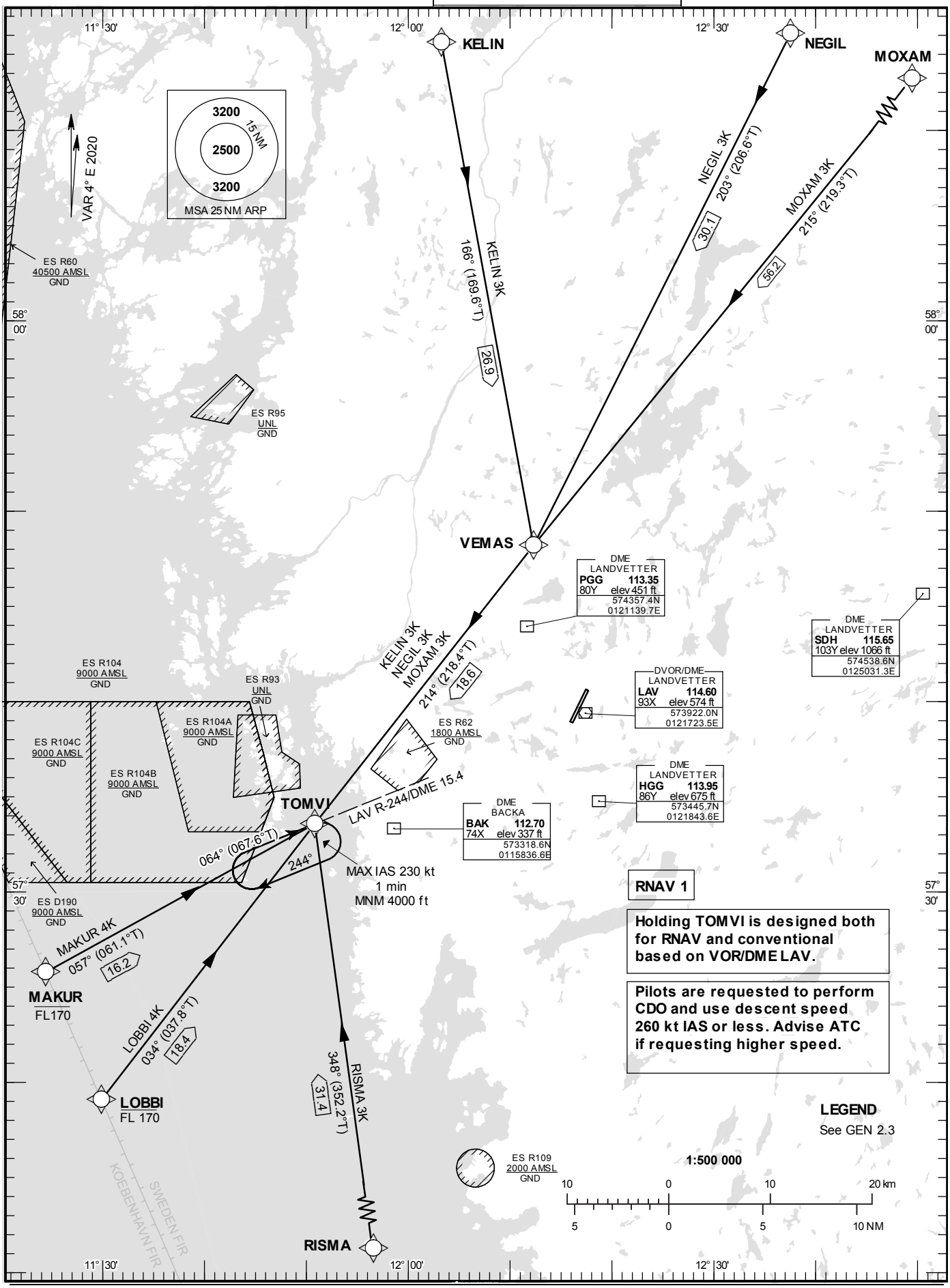
ACFT unable to follow RNAV SID: Report “unable RNAV SID due RNAV type” to Clearance Delivery and “unable RNAV SID” to Göteborg Approach at first contact.
Climb on track 202° to LAV DME 1.6 (MNM 900 ft before turn). Turn left to track 153° (max 210 kt IAS until established on 153°). At LAV DME 3.8 turn 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

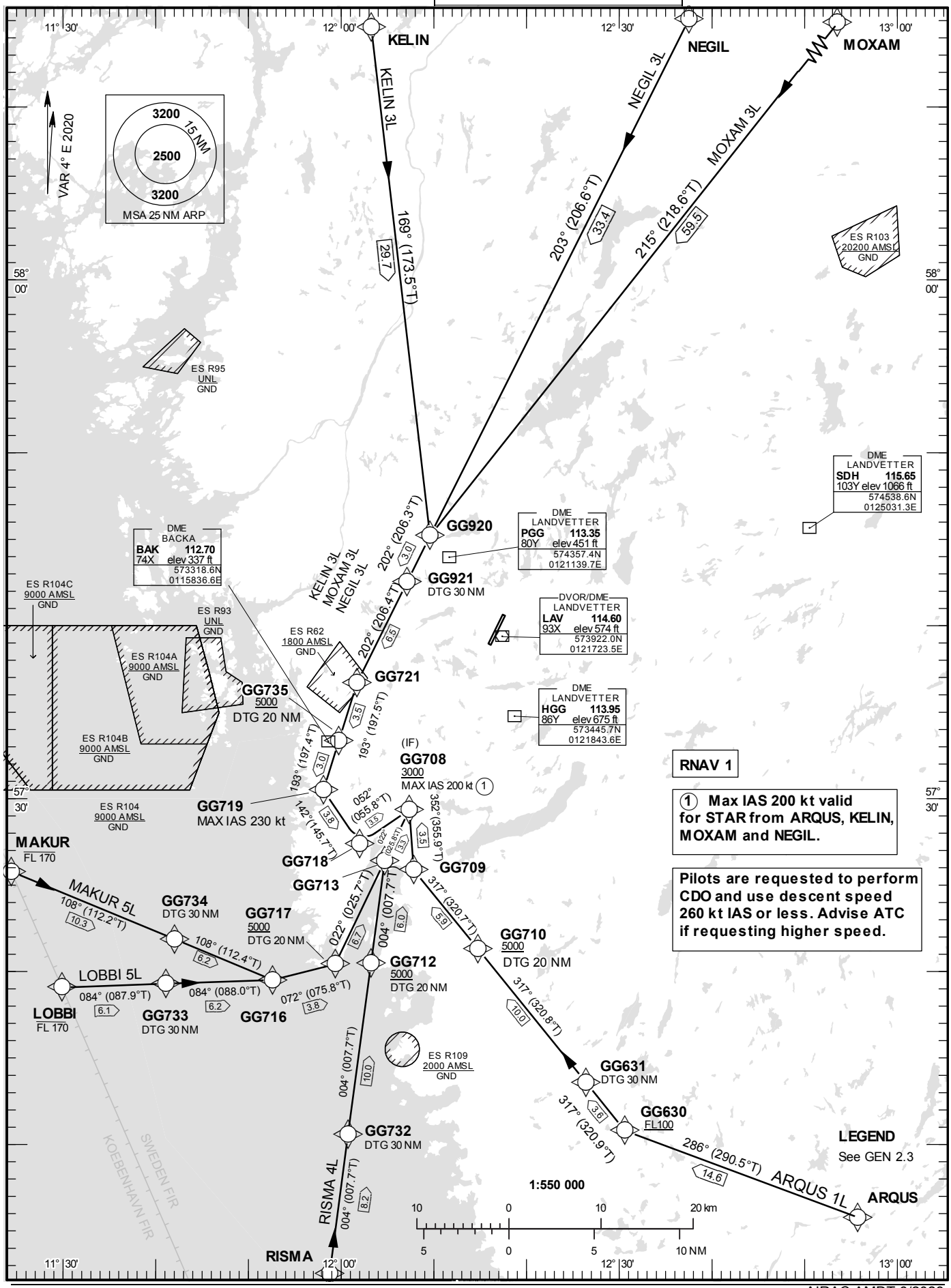
STAR instruction: MAKUR (FL170 or below) – TOMVI – radar vectors.

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

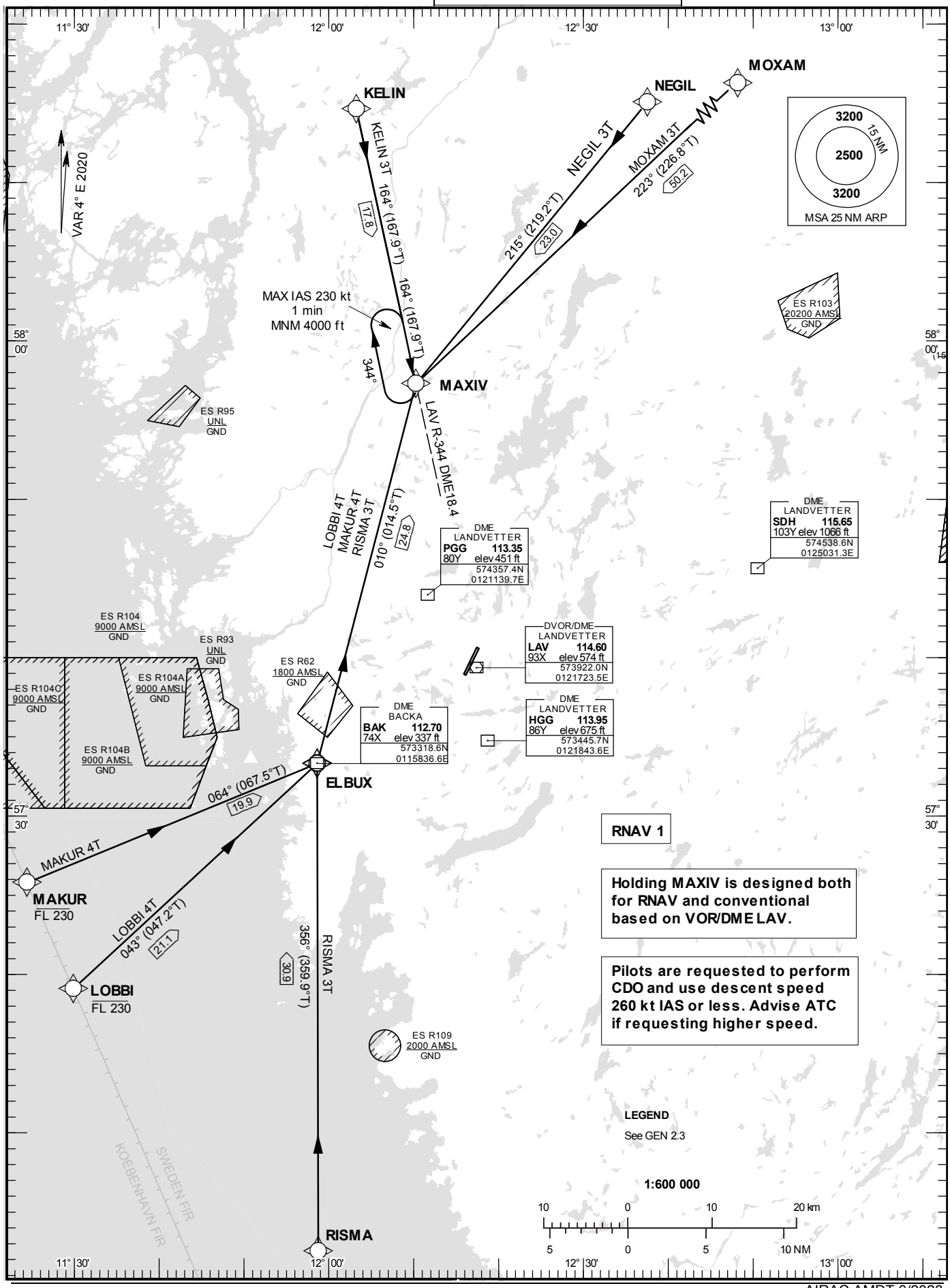
STAR instruction: KELIN – GG920 – GG921 – GG721 – GG735 (5000 ft or above) – GG719 (max IAS 230kt) – GG718 – GG708 (3000 ft or above, max IAS 200kt).

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

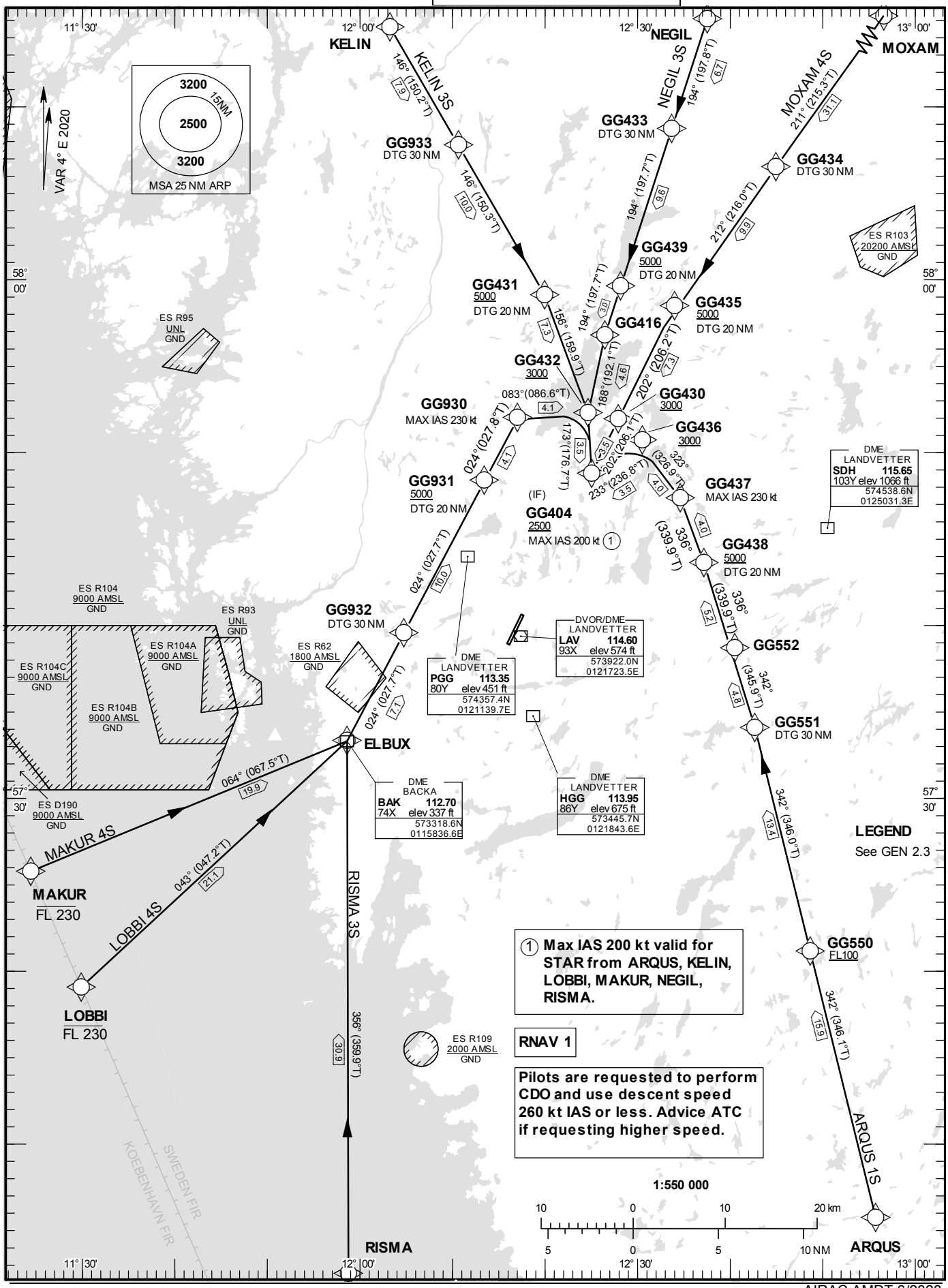
STAR instruction: MAKUR (FL230 or below) – ELBUX – MAXIV – radar vectors.

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).

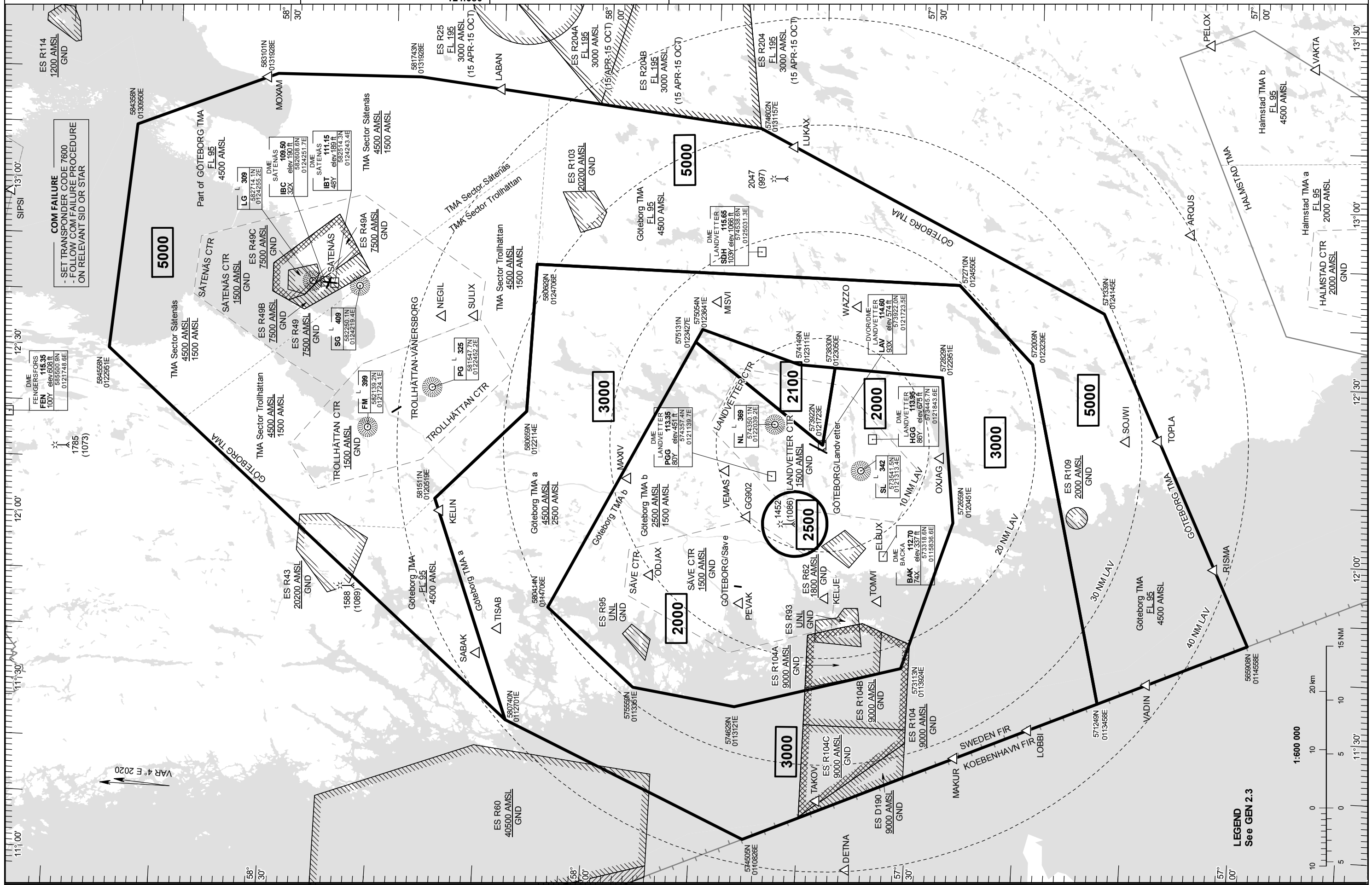
ESGG AD ELEV 507 FEET

LANDVETTER TOWER	118.605 123.100
LANDVETTER ATIS	118.380 114.600
GÖTEBORG APPROACH	124.205 124.680

ATC Surveillance Minimum Altitude Chart – GÖTEBORG

HGT and ALT in ft
TA 5000 AMSL

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



CHANGE: ES R104. ES R104A, B, C new. ES D190 new. ES R43, ES R103 HGT.

Reverse side intentionally blank

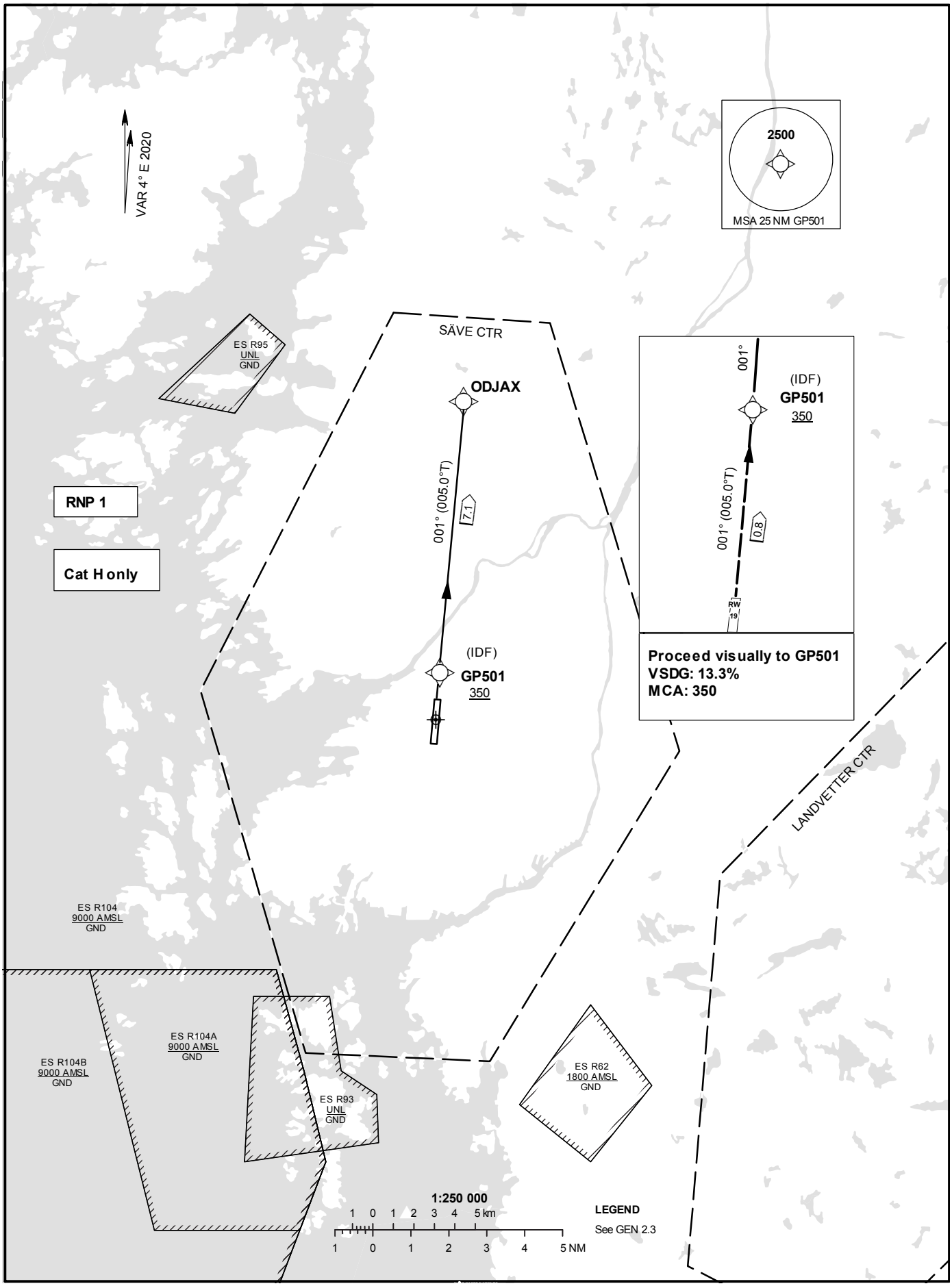
STANDARD INSTRUMENT DEPARTURE CHART (SID) - ICAO

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

SÄVE TOWER	119.055
GÖTEBORG APPROACH	124.680

Departure RNP 001

ODJAX 1



Prescribed Coding of Departure RNP 001

ODJAX 1

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/ RDH (°/ft)	Rec Navaid	Navigation Specification
DF	GP501	-	-	-	-	+350	-	-	-	RNP 1
TF	ODJAX	-	001° (005.0°)	7.1	-	-	-	-	-	RNP 1

SID instruction: GP501 (at or above 350 ft) – ODJAX

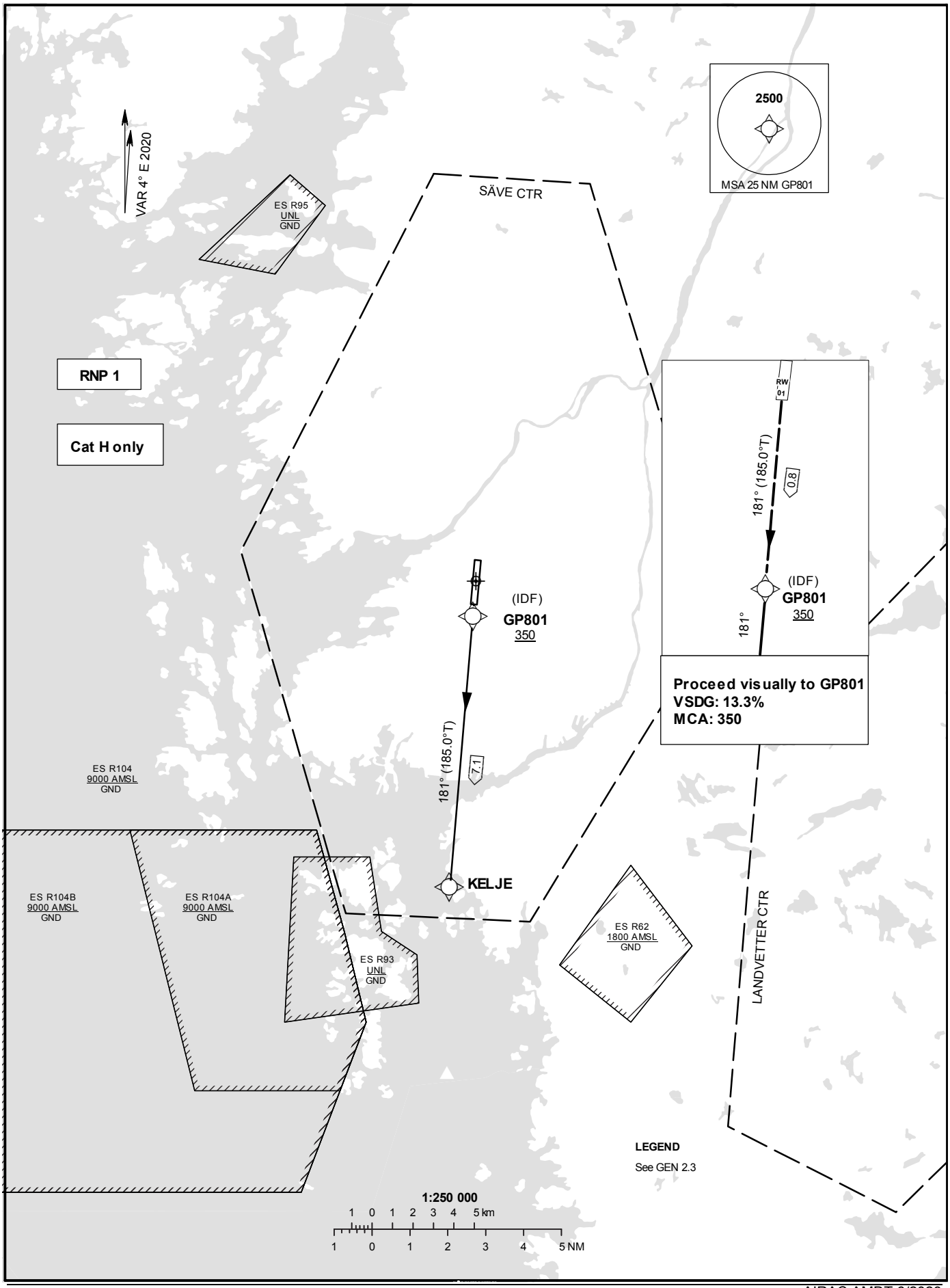
STANDARD INSTRUMENT DEPARTURE CHART (SID) - ICAO

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

SÄVE TOWER	119.055
GÖTEBORG APPROACH	124.680

Departure RNP 181

KELJE 1



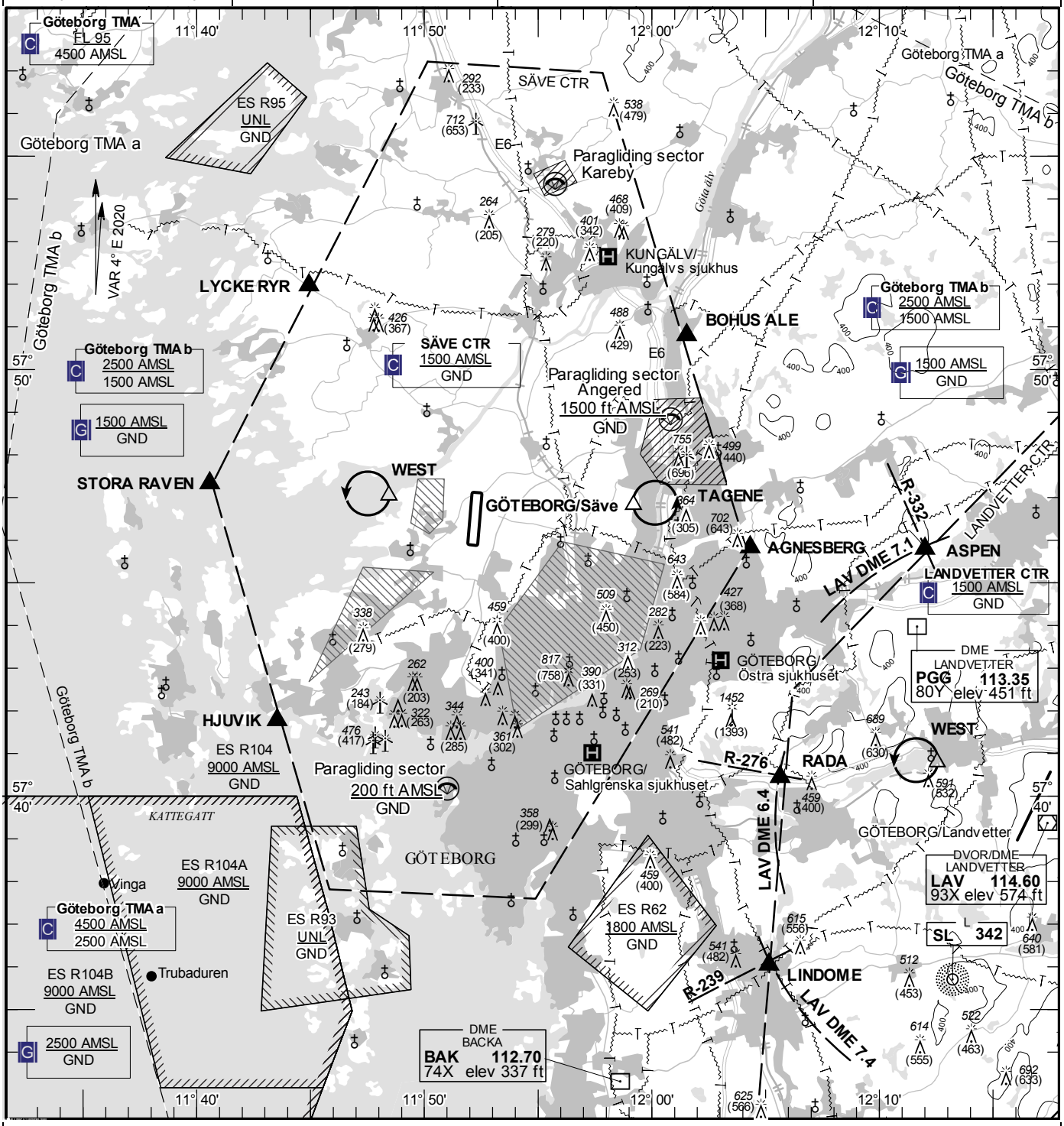
Prescribed Coding of Departure RNP 181

KELJE 1

Path Term	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/ RDH (°/ft)	Rec Navaid	Navigation Specification
DF	GP801	-	-	-	-	+350	-	-	-	RNP 1
TF	KELJE	-	181° (185.0°)	7.1	-	-	-	-	-	RNP 1

SID instruction: GP801 (at or above 350 ft) – KELJE

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	AD 2 ESGP 6-1 GÖTEBORG/Säve SWEDEN



Communication failure

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

Remark

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

RWY 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

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 FAX: +46 (0)10 357 48 05 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	-

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
4.	Remarks	-

ESMQ 2.7 SEASONAL AVAILABILITY – CLEARING

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

AD 2 AERODROMES

ESIA 2.1 AERODROME LOCATION INDICATOR AND NAME

ESIA – KARLSBORG

ESIA 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	ARP coordinates and site at AD	583049N 0143026E RWY centre point
2.	Direction and distance from (city)	In Karlsborg
3.	Elevation/Reference temperature	310 ft/+18.5°C
4.	Geoid undulation at AD ELEV PSN	100 ft
5.	MAG VAR/Annual change	4° E 2015/+0.1 increasing
6.	Administration, address, telephone, fax, AFS	MIL AD: FM/Swedish Armed Forces Flygplatsplutonen Flygplatsen SE-546 83 Karlsborg TEL: +46 (0)505 45 10 12 (AD) +46 (0)510 47 70 00 (F7) FAX: +46 (0)505 45 10 14 AFS: ESIAZTZX
7.	Types of traffic permitted (IFR/VFR)	VFR.
8.	Remarks	PPR +46 (0)505 45 10 50, +46 (0)505 45 10 17

ESIA 2.3 OPERATIONAL HOURS

Para 2.3.1 to 2.3.6 not relevant

7.	ATS	MON-THU 0730-1500 (0630-1400) FRI and day before HOL 0730-1100 (0630-1000) HOL CLSD

Para 2.3.8 to 2.3.11 not relevant

12.	Remarks	Frequent extension of operating HRS

ESIA 2.4 HANDLING SERVICES AND FACILITIES

Not relevant

ESIA 2.5 PASSENGER FACILITIES

Not relevant

ESIA 2.6 RESCUE AND FIRE FIGHTING SERVICES

MIL standard

ESIA 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	MIL standard
2.	Clearance priorities	-
3.	Remarks	RWY 06/24 de-iced with UREA

ESIA 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	Apron surface and strength	Apron 1 CONC+ASPH PCN - Apron 2 CONC PCN - Apron 3 CONC PCN -
2.	Taxiway width, surface and strength	TWY N 15 m ASPH PCN - TWY S 15 m CONC PCN - TWY V 10 m CONC PCN - TWY V1 10 m CONC PCN -
3.	ACL, location and elevation	-
4.	VOR checkpoints	-
5.	INS checkpoints	-
6.	Remarks	-

ESIA 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 06/24: Designator, THR, TDZ, CL and edges are day marked. RHTL, REDL, RENL TWY N: HLDG day marked. Edge lights, RGL S: HLDG day marked. Edge lights, RGL V: HLDG day marked. Edge lights, RGL V1: HLDG day marked. Edge lights, RGL
3.	Stop bars	-
4.	Remarks	TWY N: MIL configuration TWY S: MIL configuration TWY V: MIL configuration TWY V1: MIL configuration

ESIA 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					

ESIA 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	Såtenäs, MIL TAF 8 HR, MON-THU 0700-1500 (0600-1400) FRI and day before HOL 0700-1100 (0600-1000)
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	KARLSBORG APP KARLSBORG TWR
10.	Additional information (limitation of service, etc.)	Above info applicable to civil operations. MIL WX O/R

ESIA 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
06	062.80° GEO 059° MAG	2289 x 40	PCN - ASPH	583032.94N 0142922.75E GUND 100 ft	THR 307 ft
24	242.80° GEO 239° MAG	2289 x 40	PCN - ASPH	583106.73N 0143128.56E GUND 100 ft	THR 310 ft

Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
06 Info not avbl.	-	-	-	-	-
24 Info not avbl.	-	-	-	-	-

ESIA 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
06	2289	2289	2289	2289	-
24	2289	2289	2289	2289	-

ESIA 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
06	CAT I 1200 m LIL/LIH	Green	-	-	-	2289/75 m White Caution zone 600 m yellow LIL/LIH	Red	-
24	SALS 308 m LIH	Green	-	-	-	2289/75 m White Caution zone 600 m yellow LIL/LIH	Red	-

10 Remarks:	RWY 06:	Approach lights: MIL configuration EFAS.
	RWY 24:	Approach lights: MIL configuration EFAS.

ESIA 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	S RWY midpoint, lighted At RWY ends, lighted
3.	TWY edge and centre line lighting	Edge: TWY N, S, V, V1 CL: -
4.	Secondary power supply/switch-over time	Available/13 sec
5.	Remarks	-

ESIA 2.16 HELICOPTER LANDING AREA

-

ESIA 2.17 ATS AIRSPACE

1.	Designation and lateral limits	KARLSBORG CTR	583723N 0143913E - 583043N 0144544E - 582524N 0143643E - 582336N 0141310E - 582817N 0140905E - 583700N 0142708E - 583723N 0143913E
2.	Vertical limits	KARLSBORG CTR	1700 ft AMSL ——————— GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	KARLSBORG TOWER Swedish/English	
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	CTR established during hours of TWR.	

ESIA 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	KARLSBORG TOWER	133.000	HO	Primary channel VDF
		132.050	HO	VDF
		121.500	HO	VDF
APP	KARLSBORG APPROACH	132.050	HO	-
		133.000	HO	-

ESIA 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
NDB	KBG	312 kHz	H24	582859.8N 0142250.3E		Range 50 NM

ESIA 2.20 LOKALA TRAFIKFÖRESKRIFTER

Tillstånd för motorstart, start-up, krävs för all trafik med anledning av ofta förekommande fallskärmsfällningar.

LOCAL TRAFFIC REGULATIONS

Start-up permission reqiured by all traffic due to frequent parachute descents.

ESIA 2.21 MINSKNING AV BULLERSTÖRNING

NIL

NOISE ABATEMENT PROCEDURES

NIL

ESIA 2.22 FLYGPROCEDURER

NIL

FLIGHT PROCEDURES

NIL

ESIA 2.23 ÖVRIG INFORMATION

NIL

ADDITIONAL INFORMATION

NIL

ESIA 2.24 TILLHÖRANDE KARTOR

RELATED CHARTS

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

AD 2 AERODROMES

ESOK 2.1 AERODROME LOCATION INDICATOR AND NAME

ESOK – KARLSTAD

ESOK 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	ARP coordinates and site at AD	592641N 0132015E RWY centre point
2.	Direction and distance from (city)	NW 6.5 NM from Karlstad
3.	Elevation/Reference temperature	353 ft/+20.0°C
4.	Geoid undulation at AD ELEV PSN	104 ft
5.	MAG VAR/Annual change	5° E 2020/+0.2 increasing
6.	Administration, address, telephone, fax, AFS	Karlstad Airport SE-655 91 Karlstad TEL: +46 (0)54 540 77 00 FAX: +46 (0)54 53 23 06 E-mail: karlstadairport@karlstad.se AFS: ESOKZTZX Website: www.ksdarprt.se
7.	Types of traffic permitted (IFR/VFR)	IFR/VFR. Max RWY ref code 4E
8.	Remarks	-

ESOK 2.3 OPERATIONAL HOURS

1.	AD Administration AD Operating hours	MON-FRI 0700-1500 (0600-1400) As ATS
2.	Customs and immigration	O/R +46 (0)40 661 32 20
3.	Health and sanitation	-
4.	AIS Briefing Office	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
5.	ATS Reporting Office (ARO)	As ATS
6.	MET Briefing Office	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
7.	ATS	Ref AIP SUP/NOTAM or on request
8.	Fuelling	As ATS
9.	Handling	O/R
10.	Security	O/R
11.	De-Icing	O/R
12.	Remarks	Increased charges outside TWR HR of OPS. For request e-mail: karlstadairport@karlstad.se during AD adm hours.

ESOK 2.4 HANDLING SERVICES AND FACILITIES

1.	Cargo-handling facilities	Available O/R
2.	Fuel/oil types	Fuel Jet A1, 100LL Oil -
3.	Fuelling facilities/discharge capacity	Jet A1: 48,700 l fuel truck/stationary, additional capacity O/R 100LL: 20,000 l stationary
4.	De-icing facilities	Available, Type I and II
5.	Hangar space for visiting ACFT	Available, private
6.	Repair facilities for visiting ACFT	-
7.	Remarks	For payment of fuel all major credit cards are accepted. Handling: Karlstad Airport Fax +46 (0)54 53 23 06

ESOK 2.5 PASSENGER FACILITIES

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

ESOK 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	MAX CAT 9. RFFS level corresponds to the current aircraft specification.
2.	Rescue equipment	Available by arrangement
3.	Capability for removal of disabled aircraft	Available by arrangement, contact duty officer +46 (0)54 540 77 34
4.	Remarks	RFFS for non-commercial operations and specialized operations only available on request during ATS OP HR. 8 min PN for NON SKED Commercial Air Transport Operations TFC.

ESOK 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	Snowploughs, blowers, sweepers, spreaders
2.	Clearance priorities	RWY, TWY, Apron
3.	Remarks	-

ESOK 2.17 ATS AIRSPACE

1.	Designation and lateral limits	KARLSTAD CTR	593858N 0132400E - 593619N 0133558E - 592958N 0133350E - 592315N 0132747E - 591517N 0131659E - 591740N 0130625E - 592633N 0130950E - 592958N 0131222E - 593858N 0132400E
2.	Vertical limits	KARLSTAD CTR	2000 ft AMSL / GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	KARLSTAD TOWER Swedish/English	
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	CTR established during hours of TWR.	

ESOK 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	KARLSTAD TOWER	119.455	HO	Primary channel VDF
		121.500	HO	VDF

ESOK 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 I (5° E 2020)	SOK	109.35 MHz	HO	592726.0N 0132057.0E		289 m beyond THR 21 ILS Class I/E/2
GP		331.85 MHz	HO	592615.2N 0131941.5E		Angle 3.0° RDH 51.5 ft 314 m past THR 03 left side
OM				592237.2N 0131625.1E		-
MM				592533.7N 0131911.1E		-
L 03	SKS	330 kHz	H24	592237.5N 0131625.2E		Range 25 NM
LOC 21 ILS CAT I (5° E 2020)	NOK	110.70 MHz	HO	592558.6N 0131934.6E		195 m beyond THR 03 ILS Class I/E/2
GP		330.20 MHz	HO	592709.8N 0132033.0E		Angle 3.0° RDH 51.5 ft 329 m past THR 21 right side
OM				593155.9N 0132512.4E		-
MM				592748.2N 0132118.0E		-
L 21	NKS	341 kHz	H24	593155.4N 0132512.1E		Range 25 NM
VOR/DME (5° E 2020)	KSD	117.80 MHz	H24	592632.8N 0131953.6E	341 ft	DME channel 125X

ESOK 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. Begäran om start-up erfordras av luftfartyg på IFR färdplan.

2. Radiokommunikation med avisningsfordon sker på kanal 131.805.

3. PPR för all skolflygning enligt IFR.
TEL +46(0)54 55 60 76.

4. Skol- och allmänflyg

Upprepade start- och landningsövningar tillåts endast
- 15 JUN-15 AUG: MÅN-FRE 0800-1700 (0700-1600)
- 16 AUG-14 JUN: MÅN-FRE 0600-2000 (0500-1900) samt LÖR, SÖN och Helgdag 0800-1600 (0700-1500).

Upprepade start- och landningsövningar får inte utföras under långfredagen, påskafton, påskdagen, Kristi Himmelsfärdsdag, pingstafton, nationaldagen, midsommarafton, Alla helgons dag, julafton och juldagen.

5. När flygplatsen är stängd får parkering av luftfartyg endast göras på Apron S.

LOCAL TRAFFIC REGULATIONS

1. Request for start-up required by aircraft on IFR flight plan.

2. Radiocommunication with de-icing vehicle on channel 131.805.

3. PPR for all IFR school flights.
Phone +46(0)54 55 60 76.

4. School- and general aviation flights

Repeated take-off and landings permitted only
- 15 JUN-15 AUG: MON-FRI 0800-1700 (0700-1600)
- 16 AUG-14 JUN: MON-FRI 0600-2000 (0500-1900) also SAT, SUN and HOL 0800-1600 (0700-1500).

Repeated take-off and landings are not permitted Good Friday, Easter Eve, Easter Day, Ascension Day, Whitsun Eve, National Day, Midsummer Eve, All Saints Day, Christmas Eve and Christmas Day.

5. When the aerodrome is closed parking of aircraft is only allowed on Apron S.

6. Funktionsfel på stoppljus När stoppljus på taxibana inte går att reglera gäller följande:

6.1 Taxibana med fungerande stoppljusmanövrering kommer att användas. Taxibana med fel på manöver-funktionen kommer att stängas.

6.2 Vid nyttjande av taxibana med fel på manövreringen gäller att passage av tänt stoppljus endast får ske efter rangerbil. ATC informerar vid klarering.

6. Malfunctioning stopbar When a stopbar is not controllable the following procedures apply:

6.1 Taxiway with operational stopbar manoeuvring will be used. Taxiway with unseviceable manoeuvring function will be closed.

6.2 When using taxiway with malfunctioning stopbar manoeuvring, taxiing pass a lighted stopbar is only permitted behind a marshalling car. ATC will inform via clearance.

ESOK 2.21 MINSKNING AV BULLERSTÖRNING

1. Motorkörning
Flermotoriga luftfartyg bör eftersträva att stänga av en eller flera motorer före inkörning till plattan. Luftfartyg skall använda minsta möjliga motoreffekt vid motorstart samt vid taxning. Testkörning av motorer skall skall anmälas till, och godkännas av flygplatsens operativa ledning, via TEL 0708 55 60 34. Sådan begäran kan även vidarebefordras av flygtrafikledningen på kanal 119.455. Omfattande testkörning kan i vissa fall även nekas eller tvingas till vissa restiktioner (luftfartyget måste flyttas till annan plats etc).

2. APU
APU får endast användas då så krävs för för motorstart eller för reglering av kabintemperatur. APU får startas tidigast 5 minuter före beräknad tid för avgång. Undantag medges, i begränsad omfattning, vid fel på markströmsaggregat eller då utomhustemperaturen överstiger 25°C och då cikulation av av kabinluften inte är möjlig på annat sätt.

3. Över tätbebyggt område
Angivna flygvägar för ankommande och avgående IFR-respektive VFR-trafik har upprättats även för att minska bullerstörningar. Luftfartyg skall noggrannt följa i klarering angiven flygväg samt i övrigt framföras så att onödig bullerstörning inte förorsakas.

Avgående trafik med MTOM överstigande 5700 kg som inte följer SID; Stig rakt fram till 2500 ft innan sväng påbörjas.

Bullerkänsliga områden markerade på ESOK 6-1 (Forshaga, Kil, Skåre, Edsvalla, Vålberg och del av Karlstad) får ej överflygas på höjder understigande 2500 ft AMSL av luftfartyg överstigande MTOM 5700 kg. Luftfartyg understigande MTOM 5700 kg skall undvika dessa områden under 2500 ft AMSL.

4. Ankommande flygning
Luftfartyg med MTOM överstigande 5700 kg skall bibehålla 2500 ft till final.

NOISE ABATEMENT PROCEDURES

1. Running of engines
Multi engined aircraft should, if possible, shut down one or more engines before entering apron. Aircraft should use minimum thrust required during engine start and taxiing. Permission for ground running must be obtained from the airport authorities TEL +46 708 55 60 34. Such request may also be forwarded via ATC on channel 119.455 if necessary. For extensive engine ground running, request may be denied or restrictions be applied (aircraft to be directed to an other location on the aerodrome etc).

2. APU
APU may only be used when required for engine start or adjustment of cabin heat. APU must not be started earlier than 5 minutes before estimated time of departure. Exception may occasionally be permitted in case of GPU failure or when the outside temperature exceeds 25°C and air can not otherwise be circulated in the cabin.

3. Over built up areas
The routes for inbound and outbound IFR and VFR traffic have been established also for noise abatment purposes. Aircraft shall strictly adhere to assigned route and be operated in such a manner that unnecessary noice disturbances are not caused.

Departing traffic with MTOM exceeding 5700 kg not following SID; Climb straight ahead to 2500 ft before turn is initiated.

Noise sensitive areas marked on ESOK 6-1 (Forshaga, Kil, Skåre, Edsvalla, Vålberg and part of Karlstad) must not be overflown at levels below 2500 ft AMSL by aircraft exceeding MTOM 5700 kg. Aircraft with MTOM less than 5700 kg shall avoid these areas below 2500 ft AMSL.

4. Arriving traffic
Aircraft with MTOM exceeding 5700 kg shall maintain 2500 ft until on final.

ESOK 2.22 FLYGPROCEDURER

1. Ankommande IFR-trafik inom Karlstad TMA/CTR

Flygvägar för ankommande trafik är upprättade enligt ESOK 4-5/6 och ESOK 4-7/8.
Ankommande klarering via STAR, KSD VOR, SKS L eller NKS L.

2. Avgående IFR-trafik inom Karlstad TMA/CTR

Flygvägar för avgående trafik upprättade enligt ESOK 4-5/6 och ESOK 4-7/8.

FLIGHT PROCEDURES

1. Inbound IFR traffic within Karlstad TMA/CTR.

Arrival routes established in accordance with ESOK 4-5/6 and ESOK 4-7/8.
Inbound clearance via STAR, KSD VOR, SKS L or NKS L.

2. Outbound IFR traffic within Karlstad TMA/CTR.

Departure routes established in accordance with ESOK 4-5/6 and ESOK 4-7/8.

3. Startprocedurer, omnidirectional

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 800 ft. Continue climb to appropriate MSA.	-		
21	Climb straight ahead to MNM turning ALT 800 ft. Continue climb to appropriate MSA.	Antenna	932	164°/7297

4. Avbrott i radioförbindelse

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

4.1 Ankommande klarering mottagen och kvitterad

4.1.1 Normalt är gällande bana gräns för det av ACC meddelade ankommande klareringen. Härvid gäller följande: Bibehåll senast tilldelad och kvitterad flyghöjd. Följ angiven flygväg till SKS L (bana 03) eller NKS L (bana 21). Därefter enligt punkt 4.1.5.

4.1.2 Om gränsen för den av ACC meddelade ankommande klareringen är annan än gällande bana: Bibehåll senast tilldelad och kvitterad flyghöjd. Följ angiven flygväg till gränsen för klareringen. Fortsätt därifrån direkt till SKS L (bana 03) eller NKS L (bana 21). Därefter enligt 4.1.5.

4.1.3 Har EAT mottagits och kvitterats angör väntläge vid ankomsten till gräns för klarering enligt 4.1.1 eller 4.1.2. Lämna väntläget vid angiven EAT. Därefter enligt 4.1.5.

4.1.4 Om avbrott i radioförbindelse inträffar under radarledning: Bibehåll senast tilldelad och kvitterad flyghöjd. Flyg direkt till SKS L (bana 03) eller NKS L (bana 21). Därefter enligt 4.1.5.

4.1.5 Efter ankomst över SKS L eller NKS L, utför erforderlig nedgång i standardväntläge varefter normal instrumentinflygning skall utföras.

4.2 Ankommande klarering ej mottagen och/eller kvitterad

Bibehåll senast tilldelad och kvitterad flyghöjd. Efter aktuell inträdespunkt i TMA fortsätt till KSD VOR, därefter direkt till SKS L eller NKS L. Efter ankomst över SKS L eller NKS L, utför erforderlig nedgång i standardväntläge varefter normal instrumentinflygning skall utföras.

5. Lågsiktsprocedurer (LVP) etablerade.

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

Meddelande om att LVP är i kraft lämnas av ATS.

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

4. Communication failure

The communication failure procedures stipulated in ENR 1.3 para 10. In addition, in IMC the relevant procedures below shall be applied.

4.1 Inbound clearance received and acknowledged

4.1.1 Clearance limit for the inbound clearance issued by ACC is normally the runway-in-use. The following then apply: Maintain the level last received and acknowledged. Follow the specified route to SKS L (RWY 03) or NKS L (RWY 21) and proceed in accordance with item 4.1.5.

4.1.2 If the clearance limit for the inbound clearance is other than the runway in use: Maintain the level last received and acknowledged. Follow the specified route to this limit and proceed direct to SKS L (RWY 03) or NKS L (RWY 21), thereafter in accordance with item 4.1.5.

4.1.3 EAT received and acknowledged, join holding on arrival to the clearance limit as under 4.1.1 or 4.1.2 above. On EAT leave holding, thereafter in accordance with item 4.1.5.

4.1.4 If communication failure is experienced on radar approach: Maintain the level last received and acknowledged. Proceed direct to SKS L (RWY 03) or NKS L (RWY 21). Thereafter in accordance with item 4.1.5.

4.1.5 On arrival overhead SKS L or NKS L descent, if required, shall be made in standard holding. Thereafter a normal instrument approach shall be made.

4.2 No inbound clearance received and/or acknowledged

Maintain the level last received and acknowledged and proceed via the relevant TMA entry point to KSD VOR and thereafter direct to SKS L or NKS L. On arrival overhead SKS L or NKS L descent, if required, shall be made in standard holding. Thereafter a normal instrument approach shall be made.

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 one aircraft or vehicles are allowed in the manoeuvring area.

AD 2 AERODROMES

ESTL 2.1 AERODROME LOCATION INDICATOR AND NAME

ESTL – LJUNGBYHED

ESTL 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	ARP coordinates and site at AD	560507N 0131225E RWY 11L/29R centre point
2.	Direction and distance from (city)	W 1 NM from Ljungbyhed
3.	Elevation/Reference temperature	139 ft/+22.0°C
4.	Geoid undulation at AD ELEV PSN	120 ft
5.	MAG VAR/Annual change	4° E 2020/+0.2 increasing
6.	Administration, address, telephone, fax, AFS	Ljungbyheds Flygplats Ulanvägen 6 SE-264 51 Ljungbyhed TEL: - E-mail: flygplatsen@estl.eu AFS: ESTLZTZX Website: www.ljungbyhedpark.se
7.	Types of traffic permitted (IFR/VFR)	IFR/VFR. Max RWY ref code 2C
8.	Remarks	PPR for all flights.

ESTL 2.3 OPERATIONAL HOURS

1.	AD Administration AD Operating hours	MON-FRI 0700-1500 (0600-1400) As ATS
2.	Customs and immigration	-
3.	Health and sanitation	-
4.	AIS Briefing Office	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
5.	ATS Reporting Office (ARO)	As ATS
6.	MET Briefing Office	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
7.	ATS	Ref AIP SUP/NOTAM
8.	Fuelling	-
9.	Handling	-
10.	Security	-
11.	De-Icing	-
12.	Remarks	Increased charges outside TWR HR of OPS

ESTL 2.4 HANDLING SERVICES AND FACILITIES

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

ESTL 2.5 PASSENGER FACILITIES

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

ESTL 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	-
2.	Rescue equipment	-
3.	Capability for removal of disabled aircraft	By arrangement +46 (0)435 44 55 13
4.	Remarks	-

ESTL 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	Snowploughs, blowers, sweepers, spreaders
2.	Clearance priorities	RWY, TWY, Apron
3.	Remarks	RWY de-iced/anti-iced with UREA

ESTL 2.11 METEOROLOGICAL INFORMATION PROVIDED

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

ESTL 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	True BRG and MAG BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APCH RWY
1	2	3	4	5	6
11L	113.04° GEO 109° MAG	1998 x 40	PCN 25 R/B/X/T ASPH	560518.61N 0131133.02E GUND 119 ft	THR 126 ft
29R	293.06° GEO 289° MAG	1998 x 40	PCN 25 R/B/X/T ASPH	560453.31N 0131319.36E GUND 119 ft	THR 139 ft
11R	113.86° GEO 110° MAG	1986 x 40	PCN 25 R/B/X/T CONC+ASPH	560511.45N 0131052.36E GUND 119 ft	THR 123 ft
29L	293.89° GEO 290° MAG	1986 x 40	PCN 25 R/B/X/T CONC+ASPH	560445.46N 0131237.35E GUND 119.3 ft	THR 136.1 ft TDZ 136.1 ft

Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
11L	-	-	2130 x 150	-	Non instrument
29R	-	-	2130 x 150	-	Non instrument
11R See ESTL AOC	-	-	2109 x 150	-	-
29L See ESTL AOC	-	-	2109 x 150	-	-

ESTL 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
11L	1998	1998	1998	1998	-
29R	1998	1998	1998	1998	-
11R	1986	1986	1986	1986	-
29L	1986	1986	1986	1986	-

DECLARED DISTANCES TAKE-OFF INTERSECTIONS						
RWY Designator	INTERSECTION	TORA (m)	TODA (m)	ASDA (m)		Remarks
1		2	3	4	5	6
11L	TWY D	1643	1643	1643	-	-
11R	TWY A	1633	1633	1633	-	-
11R	TWY J	1148	1148	1148	-	-

ESTL 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT Type, LEN INTST	THR LGT Colour WBAR	VASIS (MEHT)	TDZ LGT LEN	RWY Centre Line LGT LEN, Spacing Colour INTST	RWY Edge LGT LEN, Spacing Colour INTST	RWY End LGT Colour WBAR	SWY LGT LEN, Colour
1	2	3	4	5	6	7	8	9
11R	-	Green	APAPI Left/3.00°	-	-	1986/60 m White Caution zone 600 m yellow LIH	Red	-
29L	Calvert CAT I 750 m LIL/LIH	Green WBAR	PAPI Left/3.00° (57.4 ft)	-	-	1986/60 m White Caution zone 600 m yellow LIH	Red	-

10 Remarks:	RWY 29L:	APAPI Left/2.86° (back-up)

ESTL 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1.	ABN/IBN location, characteristics and hours of operation	-
2.	LDI location and LGT Anemometer location and LGT	- 350 m past THR 11R right side, 550 m E THR 29L
3.	TWY edge and centre line lighting	Edge: TWY A, B, K, Y CL: - LED lights on all RGL

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

ESTL 2.16 HELICOPTER LANDING AREA

RWY 11R/29L to be used

ESTL 2.17 ATS AIRSPACE

1.	Designation and lateral limits	LJUNGBYHED CTR	560918N 0130132E - 560730N 0131850E - 560503N 0132709E - 555903N 0132130E - 560130N 0130750E - 560514N 0125857E - 560918N 0130132E
2.	Vertical limits	LJUNGBYHED CTR	1500 ft AMSL / GND
3.	Airspace classification	C	
4.	ATS unit call sign 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 (4° E 2020)	DA	108.55 MHz	H24 *	560518.9N 0131022.3E		569 m beyond THR 11R
GP		329.75 MHz	H24 *	560453.0N 0131224.1E		Angle 3.0° RDH 50.9 ft 303 m past THR 29L right side
VOR/DME (4° E 2020)	LJU	113.40 MHz	H24 *	560459.2N 0131204.5E	144 ft	DME channel 81X
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

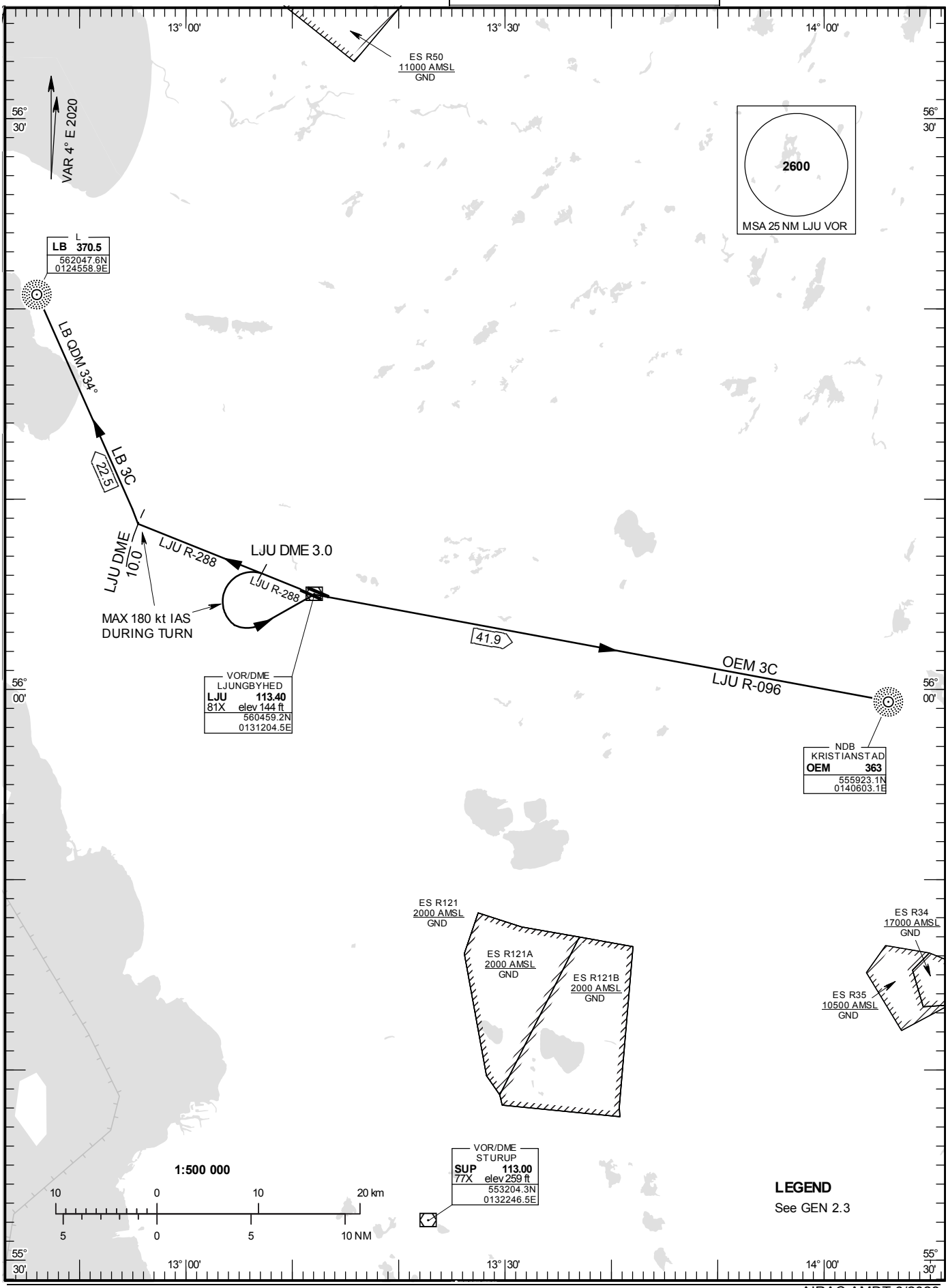
Aerodrome is not available when RVR is less than 800 m.

STANDARD INSTRUMENT DEPARTURE AND ARRIVAL CHART (SID/STAR) - ICAO

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

LJUNGBYHED TOWER	130.705
LJUNGBYHED GROUND	121.655
LJUNGBYHED APPROACH	129.555

SID RWY 29L



DEPARTURE (SID) RWY 29L

INITIAL CLIMB CLEARANCE

Common to all SIDs published on charts:
Unless otherwise specified, climb to 4000 ft.

REMARK

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 4000 ft AMSL. Aircraft unable to conform with this procedure shall inform ATC accordingly.

LIMA BRAVO THREE CHARLIE DEPARTURE (LB 3C)

Intercept LJU R-288. At LJU DME 10.0 turn right and intercept LB QDM 334° Proceed to LB.

OSCAR ECHO MIKE THREE CHARLIE DEPARTURE (OEM 3C)

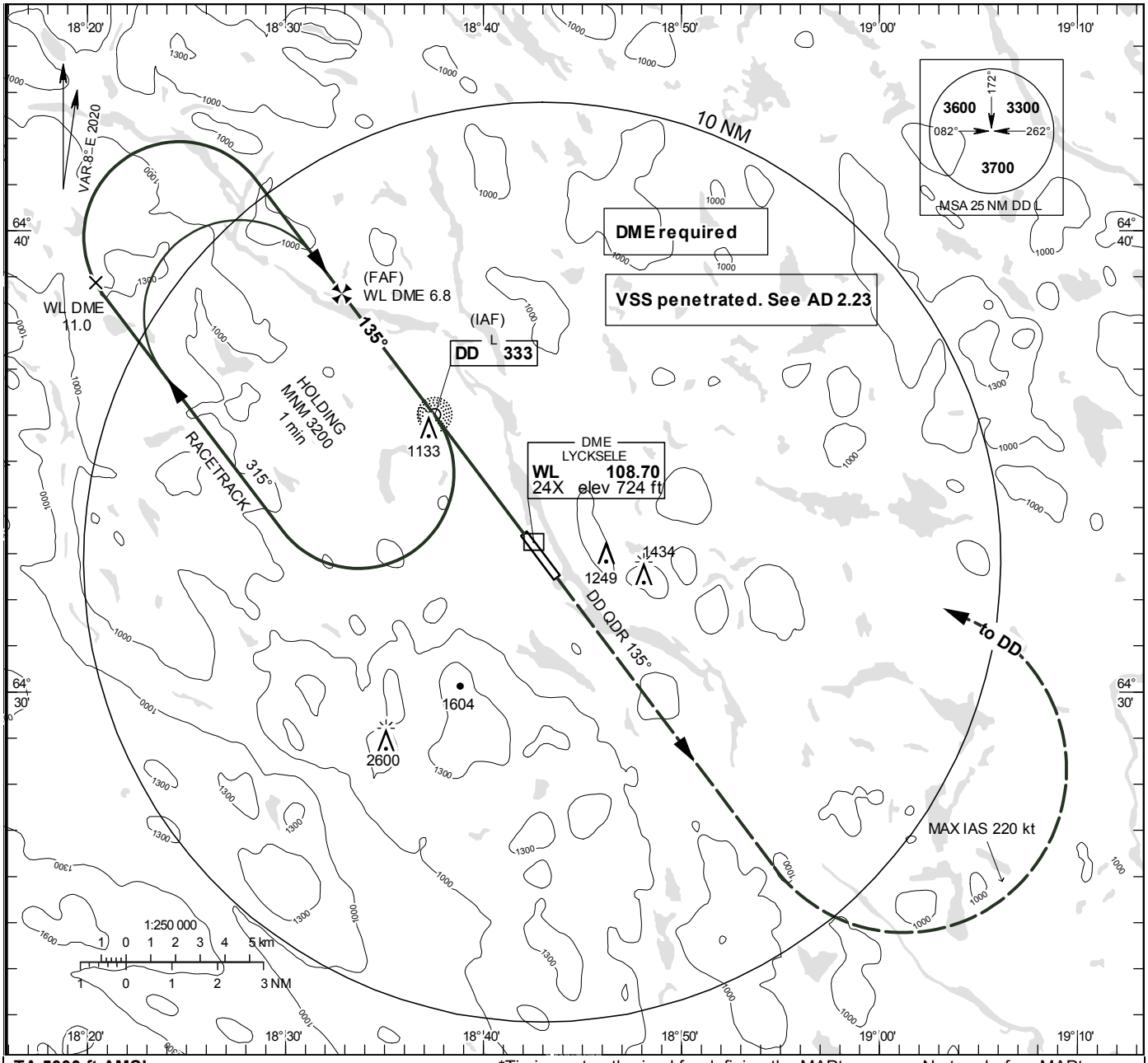
Intercept LJU R-288. At LJU DME 3.0 turn left (max speed 180 kt IAS during turn) and proceed to LJU. At LJU intercept and proceed on LJU R-096. Proceed to OEM.

INSTRUMENT APPROACH CHART – ICAO

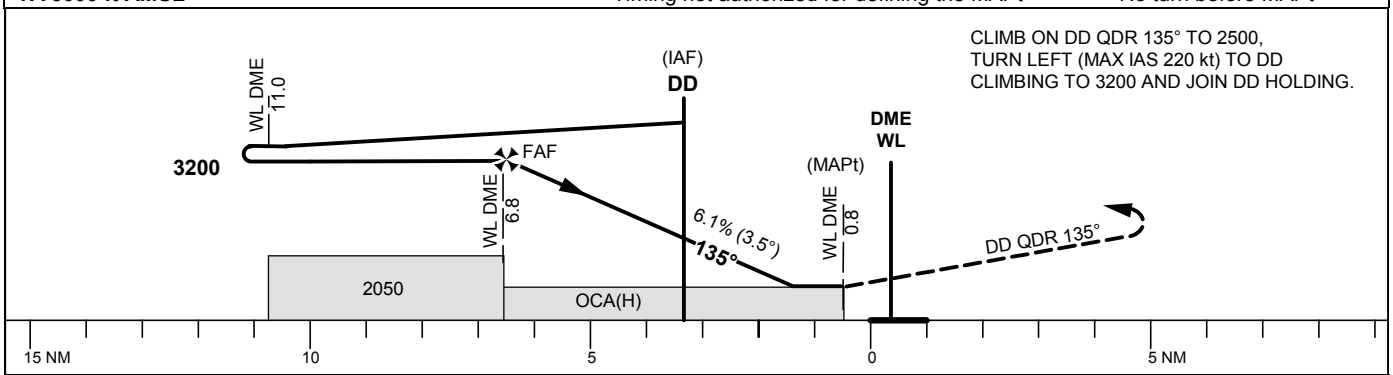
THR ELEV 704.5 ft, AD ELEV 705 ft
OCH are related to THR.
Circling OCH are related to AD ELEV.
BRG are MAG
ALT. HGT and ELEV in ft.

LYCKSELE INFORMATION	122.230

NDB RWY 14



TA 5000 ft AMSL *Timing not authorized for defining the MAPt No turn before MAPt



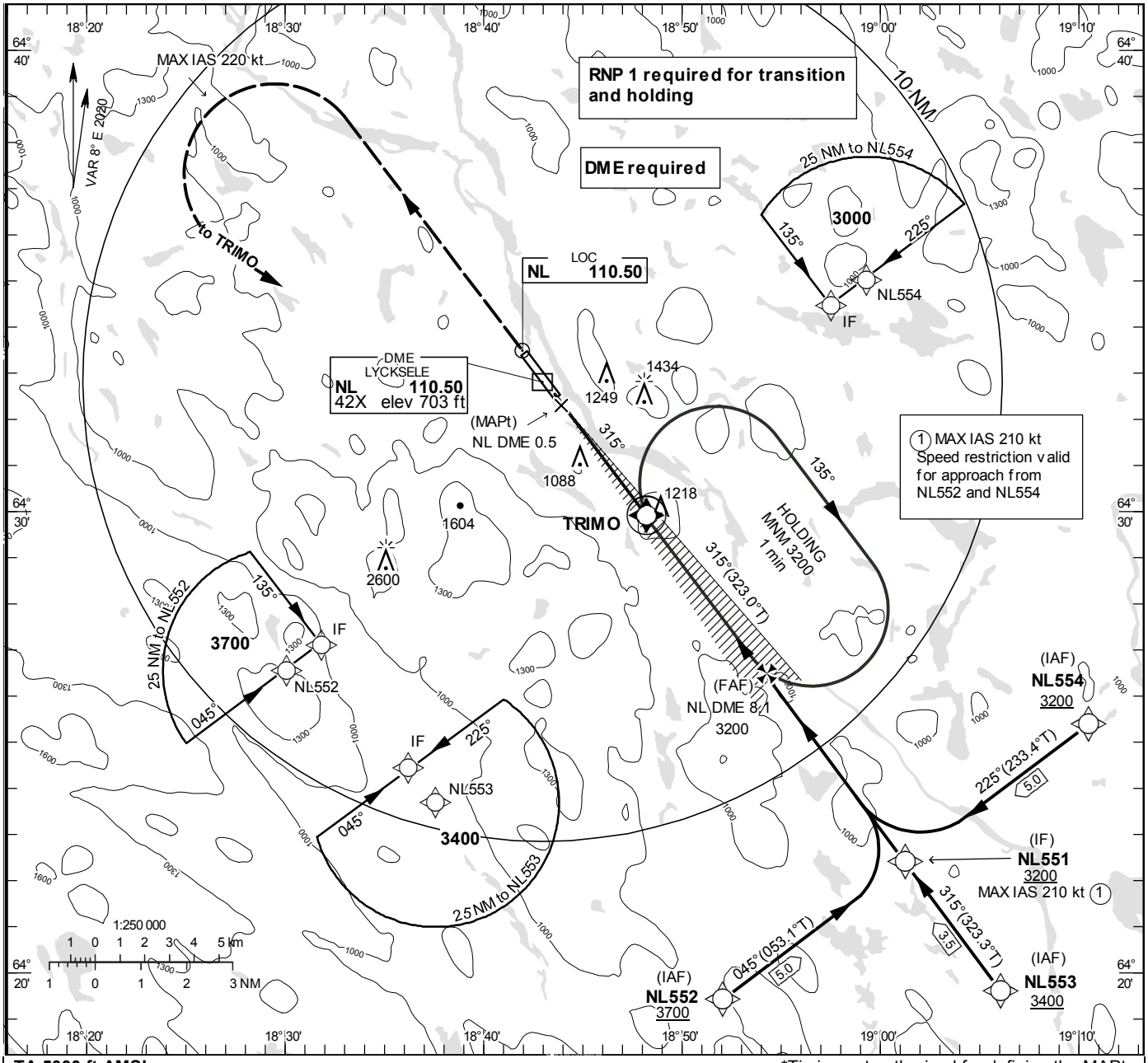
OCA (H)				Final approach	Distance FAF-MAPt 6.0 NM*					
Cat of ACFT	A	B	C	DME WL NM	6	5	4	3	2	1
Straight-in Approach	1380 (680)			ALT	2920	2550	2180	1810	1440	1070
Circling	1550 (850)	1730 (1030)	2000 (1300)	GS	kt	80	100	120	140	160	180
				Time	min:s	4:35	3:40	3:03	2:37	2:17	2:02
				Rate of descent	ft/min	495	620	745	865	990	1115

LOC z RWY 32

LYCKSELE INFORMATION	122.230

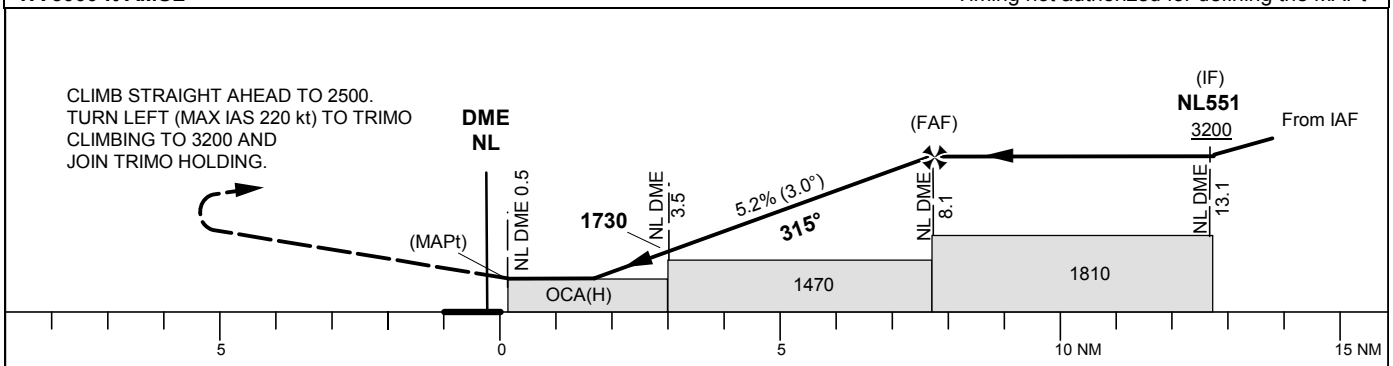
THR ELEV 689 ft, AD ELEV 705 ft
OCH are related to THR.
Circling OCH are related to AD ELEV.
BRG are MAG
ALT. HGT and ELEV in ft.

INSTRUMENT APPROACH CHART – ICAO



TA 5000 ft AMSL

*Timing not authorized for defining the MAPt



OCA (H)				Final approach	Distance FAF- MAPt 7.6 NM*					
Cat of ACFT	A	B	C	DME NL NM	3	4	5	6	7	
Straight-in Approach	1260 (580)			ALT	1580	1900	2210	2530	2850	
Circling	1550 (850)	1730 (1030)	2000 (1300)	GS	kt	80	100	120	140	160
				Time	min:s	5:43	4:34	3:48	3:16	2:51
				Rate of descent	ft/min	425	535	640	745	850

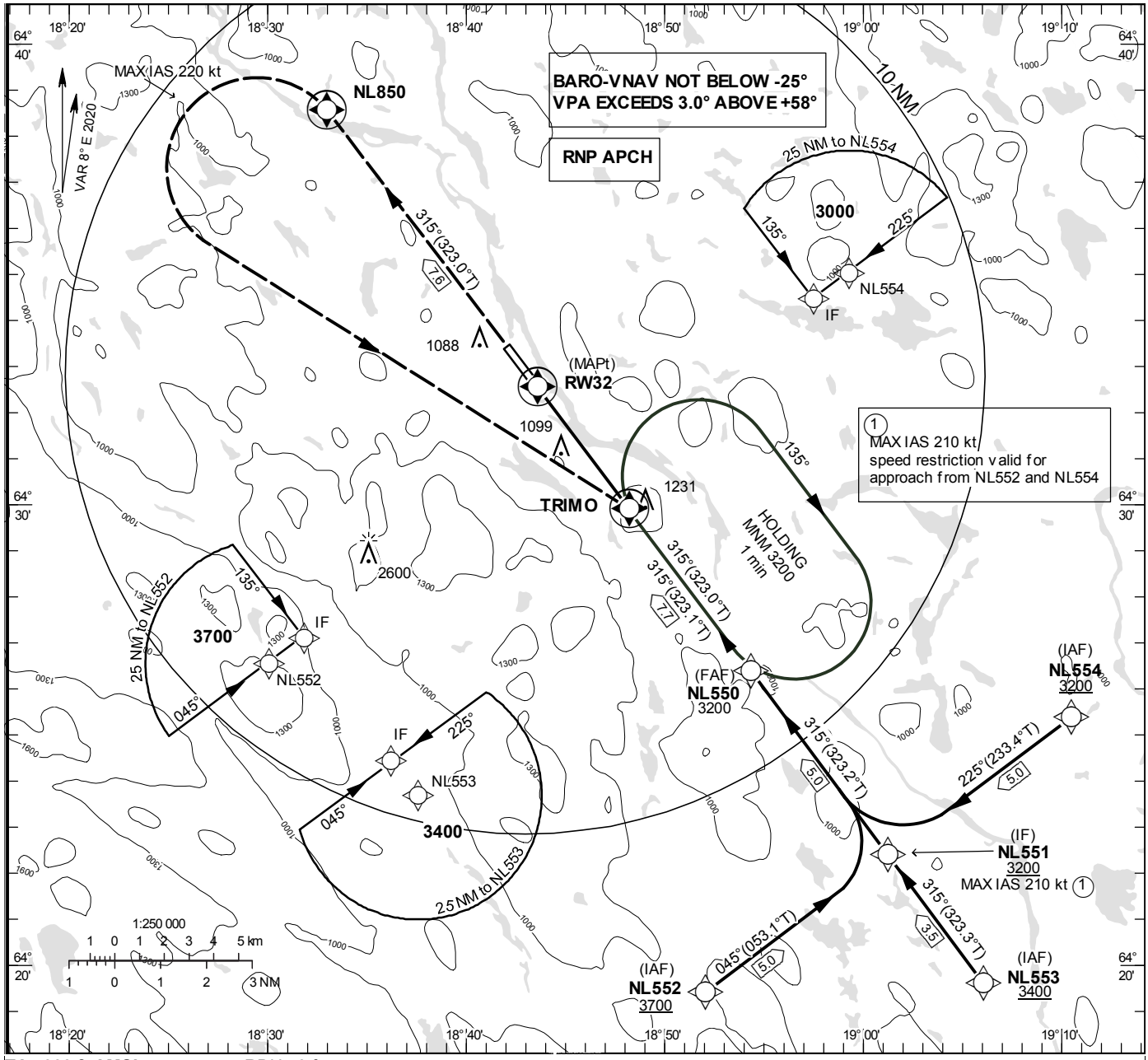
INSTRUMENT APPROACH CHART – ICAO

THR ELEV 689 ft, AD ELEV 705 ft
OCH are related to THR.
BRG are MAG (True).
ALT, HGT and ELEV in ft.

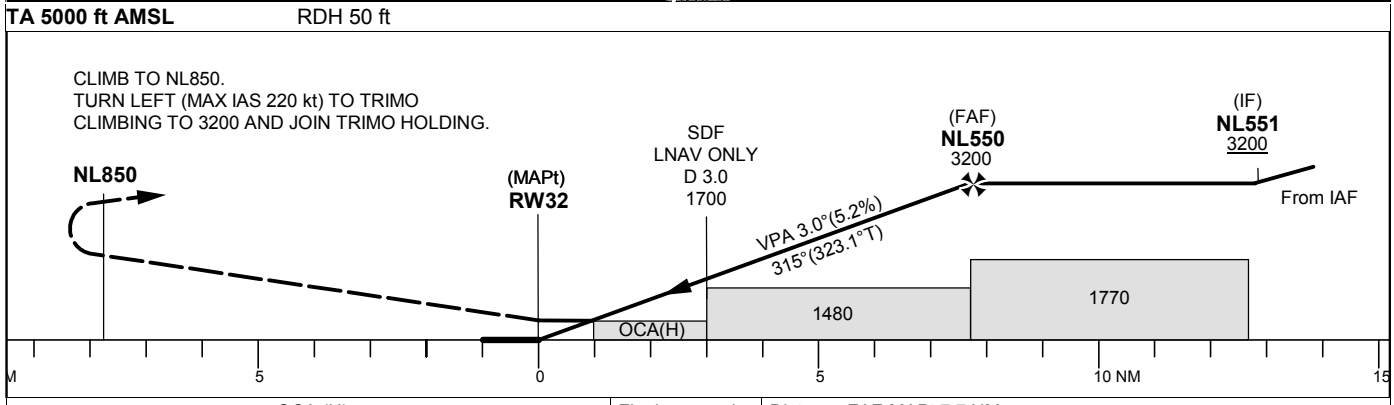
LYCKSELE INFORMATION 122.230

RNP RWY 32

EGNOS Ch 72283 E 32A



TA 5000 ft AMSL RDH 50 ft



OCA (H)				Final approach	Distance FAF-MAPt 7.7 NM					
Cat of ACFT	A	B	C	Dist to RW32	2	3	4	5	6	7
LPV	1023 (334)	1035 (346)	1043 (354)	ALT	1380	1690	2010	2330	2650	2970
LNAV/VNAV	1229 (540)	1241 (552)	1249 (560)	GS	kt	80	100	120	140	160
LNAV	1350 (670)			Rate of descent	ft/min	425	530	635	745	850

RNP RWY 32 via NL552

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
IF	NL552	-	-	-	-	+3700	-	-	-	RNP APCH
TF	NL551	-	045°(053.1°)	5.0	-	+3200	-210	-	-	RNP APCH

RNP RWY 32 via NL553

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
IF	NL553	-	-	-	-	+3400	-	-	-	RNP APCH
TF	NL551	-	315°(323.3°)	3.5	-	+3200	-	-	-	RNP APCH

RNP RWY 32 via NL554

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
IF	NL554	-	-	-	-	+3200	-	-	-	RNP APCH
TF	NL551	-	225°(233.4°)	5.0	-	+3200	-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	NL551	-	-	-	-	+3200	-	-	-	RNP APCH
TF	NL550	-	315°(323.2°)	5.0	-	@3200	-	-	-	RNP APCH
TF	RW32	Y	315°(323.1°)	7.7	-	@739	-	-3.00/50	-	RNP APCH
TF	NL850	Y	315°(323.0°)	7.6	-	-	-	-	-	RNP APCH
DF	TRIMO	Y	-	-	L	-	-220	-	-	RNP APCH

ESNL Holding TRIMO

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
HM	TRIMO	Y	315°(323.0°)	-	R	+3200	-	-	-	RNP 1

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	5° E 2020/+0.2 increasing
6.	Administration, address, telephone, fax, AFS	AB Dalaflyget Mora/Siljan flygplats SE-792 91 Mora TEL: +46 (0)250 301 75 FAX: +46 (0)250 59 35 25 E-mail: atseskm@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 SAAB 2000. Contact ESKM: +46 (0)70 651 79 75 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

AD 2 AERODROMES

ESNS 2.1 AERODROME LOCATION INDICATOR AND NAME

ESNS – SKELLEFTEÅ

ESNS 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	ARP coordinates and site at AD	643729N 0210437E RWY 1055 m inwards THR 10
2.	Direction and distance from (city)	SE 8 NM from Skellefteå
3.	Elevation/Reference temperature	158 ft/+17.0°C
4.	Geoid undulation at AD ELEV PSN	71 ft
5.	MAG VAR/Annual change	10° E 2025/+0.2 increasing
6.	Administration, address, telephone, fax, AFS	Skellefteå City Airport SE-931 32 Skellefteå TEL: +46 (0)910 576 00 E-mail: info@skellefteaairport.se AFS: ESNSZTZX Website: skellefteaairport.se
7.	Types of traffic permitted (IFR/VFR)	IFR/VFR. Max RWY ref code 4E
8.	Remarks	PPR: See ESNS 2.20

ESNS 2.3 OPERATIONAL HOURS

1.	AD Administration AD Operating hours	MON-FRI 0700-1500 (0600-1400) H24
2.	Customs and immigration	O/R TEL +46 (0)90 18 55 25
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 1 HR PN
10.	Security	As ATS 1 HR PN
11.	De-Icing	As ATS Avbl for SKED TFC, others on request 1 HR PN
12.	Remarks	Increased charges outside TWR HR of OPS

ESNS 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: 170,000 l, Hydrant and fuel truck 100LL: 10,000 l, Hydrant
4.	De-icing facilities	Available, Type I and II, mobile unit
5.	Hangar space for visiting ACFT	-
6.	Repair facilities for visiting ACFT	-
7.	Remarks	Fuel supplier Air BP

ESNS 2.5 PASSENGER FACILITIES

1.	Hotels	In Skellefteå
2.	Restaurants	At AD (office hours)
3.	Transportation	Buses, taxis
4.	Medical facilities	In Skellefteå
5.	Bank and Post Office	In Skellefteå
6.	Tourist Office	In Skellefteå
7.	Remarks	-

ESNS 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	CAT 7 for commercial traffic and CAT 9 O/R. Other traffic 8 min PN
2.	Rescue equipment	Tracked vehicle
3.	Capability for removal of disabled aircraft	By arrangement depending on type of aircraft. Contact: Dutyofficer TEL +46(0)910 576 25
4.	Remarks	-

ESNS 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	Blowers, sweepers, slingers
2.	Clearance priorities	RWY, TWY, Apron
3.	Remarks	RWY de-iced with KFOR/UREA/SAND TWY de-iced with KFOR/UREA/SAND Apron de-iced with KFOR/UREA/SAND

ESNS 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	Associated MET Office	STOCKHOLM/Arlanda
2.	Hours of service MET Office outside hours	H24
3.	Office responsible for TAF preparation Periods of validity, interval of issuance	STOCKHOLM/Arlanda 9 HR, 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	SKELLEFTEÅ TWR
10.	Additional information (limitation of service, etc.)	Flight planning room available

ESNS 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	True BRG and MAG BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APCH RWY
1	2	3	4	5	6
10	106.24° GEO 096° MAG	2520 x 45	PCN 56 F/B/X/T ASPH	643738.67N 0210320.83E GUND 71 ft	THR 158 ft
28	286.28° GEO 276° MAG	2520 x 45	PCN 56 F/B/X/T ASPH	643715.89N 0210622.89E GUND 71.0 ft	THR 122.3 ft TDZ 132.6 ft

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

ESNS 2.13 DECLARED DISTANCES

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

ESNS 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT Type, LEN INTST	THR LGT Colour WBAR	VASIS (MEHT)	TDZ LGT LEN	RWY Centre Line LGT LEN, Spacing Colour INTST	RWY Edge LGT LEN, Spacing Colour INTST	RWY End LGT Colour WBAR	SWY LGT LEN, Colour
1	2	3	4	5	6	7	8	9
10	Barrette CL 900 m LIH	Green	PAPI Left/3.00° (55.8 ft)	-	-	2520/50 m White Caution zone 600 m yellow LIH	Red	-
28	Barrette CL CAT I 900 m LIH	Green	PAPI Left/3.00° (56.4 ft)	-	-	2520/50 m White Caution zone 600 m yellow LIH	Red	-

10 Remarks: -

ESNS 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 GP 28 and E Apron 230 m SE THR 10 and at GP 28
3.	TWY edge and centre line lighting	Edge: TWY A CL: -
4.	Secondary power supply/switch-over time	Normally: Available/7 sec Less than 1 sec for departure when RVR is below 800 m.
5.	Remarks	-

ESNS 2.16 HELICOPTER LANDING AREA

RWY 10/28 to be used

ESNS 2.17 ATS AIRSPACE

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

ESNS 2.18 ATS COMMUNICATION FACILITIES

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

ESNS 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
LOC 28 ILS CAT I (10° E 2025)	NS	109.50 MHz	H24 *	643740.7N 0210304.6E		224 m beyond THR 10. ILS Class I/E/2 On approach from S outside ILS positive coverage, intermittent ID from EFVA ILS VA.
GP		332.60 MHz	H24 *	643722.4N 0210603.4E		Angle 3.0° RDH 53.1 ft 306 m past THR 28 right side During winter angle may vary btn 3.0° and 3.25° due to snow.
DVOR/DME (10° E 2025)	SKA	113.40 MHz	H24 *	643736.1N 0210445.9E	189 ft	DME channel 81X
DME	NS	109.50 MHz	H24 *	643722.6N 0210603.5E	152 ft	DME channel 32X

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

ESNS 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. Tillgänglighet.

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

Vid behov av PPR kontaktas flygplatsen TEL 0910 576 25 eller insatsledare@sft.se.

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

3. Klarering före uttaxning.

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

LOCAL TRAFFIC REGULATIONS

1. Availability.

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

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

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

3. Clearance at gate.

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

ESNS 2.21 MINSKNING AV BULLERSTÖRNING

NIL

NOISE ABATEMENT PROCEDURES

NIL

ESNS 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
10	Climb straight ahead to MNM turning ALT 600 ft. Continue climb to appropriate MSA.	CIO exist	-	-
28	Climb straight ahead to MNM turning ALT 600 ft. Continue climb to appropriate MSA.	CIO exist	-	-

2. Lågsiktsprocedurer (LVP) etablerade

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

LVP träder i kraft när RVR är lägre än 550 m eller när molntäckeshöjden eller vertikalsikten är lägre än 200 ft. Meddelande om att LVP är i kraft lämnas av ATS.

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

Minimum RVR för avgående trafik 400 m.

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

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

Start från framflyttad position är inte tillåten.

3. VFR-flygning inom Skellefteå TMA/CTR

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

Normala in- och utpasseringspunkter
Se ESNS 6–1

Väntlägen
Se ESNS 6–1

Avbrott i radioförbindelse
Se ESNS 6–1

2. Low visibility procedures (LVP) established.

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

LVP will be in force when RVR is below 550 m or ceiling or vertical visibility is below 200 ft. The application of LVP will be announced by ATS.

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

Minimum RVR for departing traffic is 400 m.

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

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

Intersection take-offs are not permitted.

3. VFR flight within Skellefteå TMA/CTR

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

Normal entry and exit points
See ESNS 6–1

Holdings
See ESNS 6–1

Communication failure
See ESNS 6–1

ESNS 2.23 ÖVRIG INFORMATION

1. Reducerad banseparation.

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

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

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

ADDITIONAL INFORMATION

1. Reduced runway separation.

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

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

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

ESNS 2.24 TILLHÖRANDE KARTOR RELATED CHARTS

AD chart		ESNS 2-1
AOC	RWY 10/28	ESNS-3-1
Area chart (TMA)		ESNS 4-1
List of waypoints and significant points		ESNS 4-3
ATC Surveillance Minimum ALT chart		ESNS 4-91
IAC	ILS or LOC RWY 28	ESNS 5-1
IAC	VOR RWY 28	ESNS 5-3
IAC	VOR RWY 10	ESNS 5-5
IAC	RNP RWY 10	ESNS 5-7
IAC	RNP RWY 28	ESNS 5-11
VAC		ESNS 6-1

ARP 643729N 0210437E

AD ELEV 158 FEET

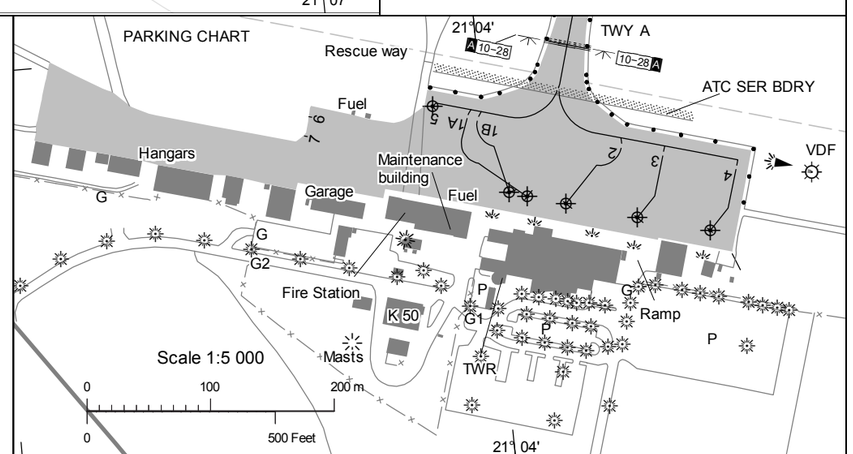
LEGEND See GEN 2.3

Dimensions in m, ELEV in ft

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

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

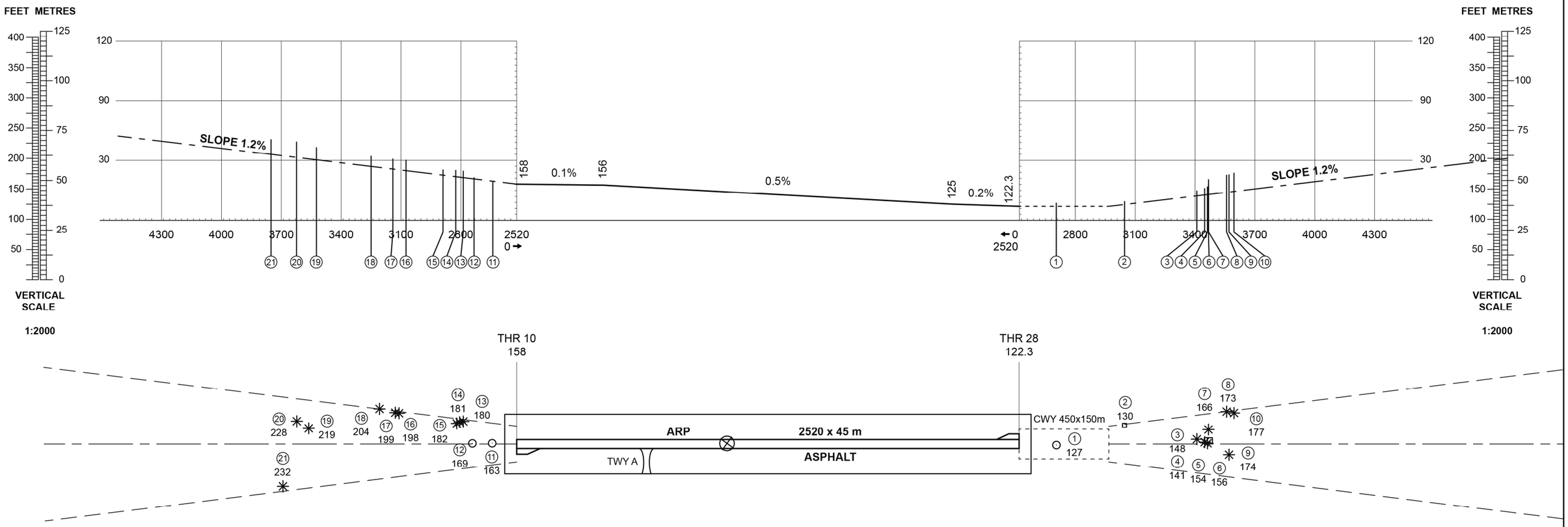
RWY NR	TRUE & MAG BRG	THR PSN Geoid undulation	Bearing strength	THR ELEV and highest ELEV of TDZ of precision APCH RWY	Declared distances				Approach and runway lighting				
					TORA	TODA	ASDA	LDA	APCH	THR TRID TDZ	VASIS (MEHT)	Edge	End
10	106.24° GEO 096° MAG	643738.67N 0210320.83E GUND 71 ft	PCN 56 F/B/X/T	THR 158 ft	2520	2970	2520	2520	Barrette CL 900 m LIH	THR Green	PAPI Left/3.00° (55.8 ft)	2520/50 m White Caution zone 600 m yellow LIH	Red
28	286.28° GEO 276° MAG	643715.89N 0210622.89E GUND 71.0 ft	PCN 56 F/B/X/T	THR 122.3 ft TDZ 132.6 ft	2520	2520	2520	2520	Barrette CL Cat I 900 m LIH	THR Green	PAPI Left/3.00° (56.4 ft)	2520/50 m White Caution zone 600 m yellow LIH	Red



AERODROME ELEVATION 158 FEET
MAGNETIC VARIATION 10° E 2025

RUNWAY BEARINGS
10 = GEO 106.24°; MAG 096°
28 = GEO 286.28°; MAG 276°

RWY 10	DECLARED DISTANCES	RWY 28
2520	TAKE-OFF RUN AVAILABLE	2520
2970	TAKE-OFF DISTANCE AVAILABLE	2520
2520	ACCELERATE STOP DIST. AVAILABLE	2520
2520	LANDING DISTANCE AVAILABLE	2520



HORIZONTAL SCALE 1:20 000

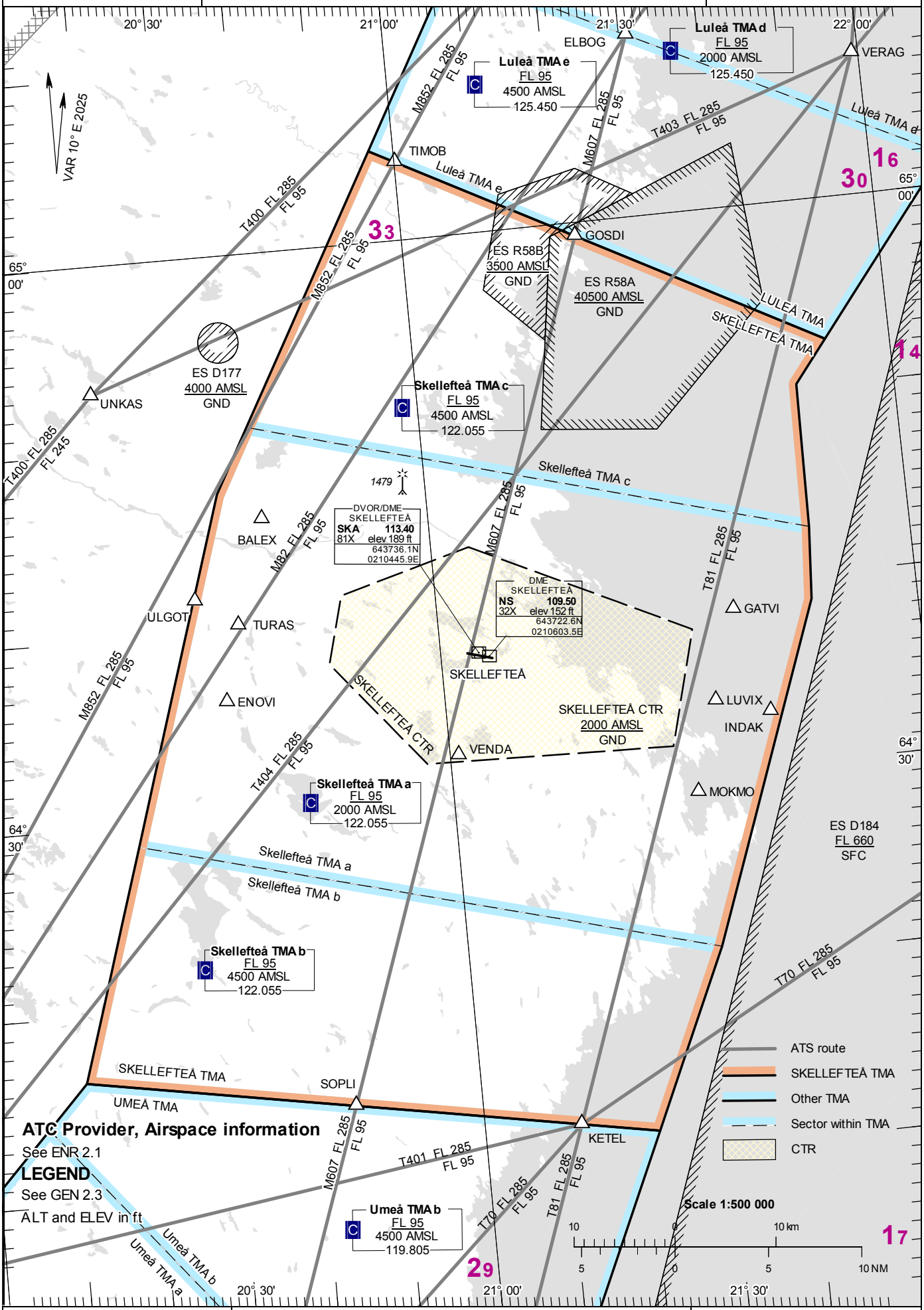
METRES
400 200 0 500 1000 1500 2000 2500

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

ORDER OF ACCURACY

HORIZONTAL 5 m
VERTICAL 1 ft

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



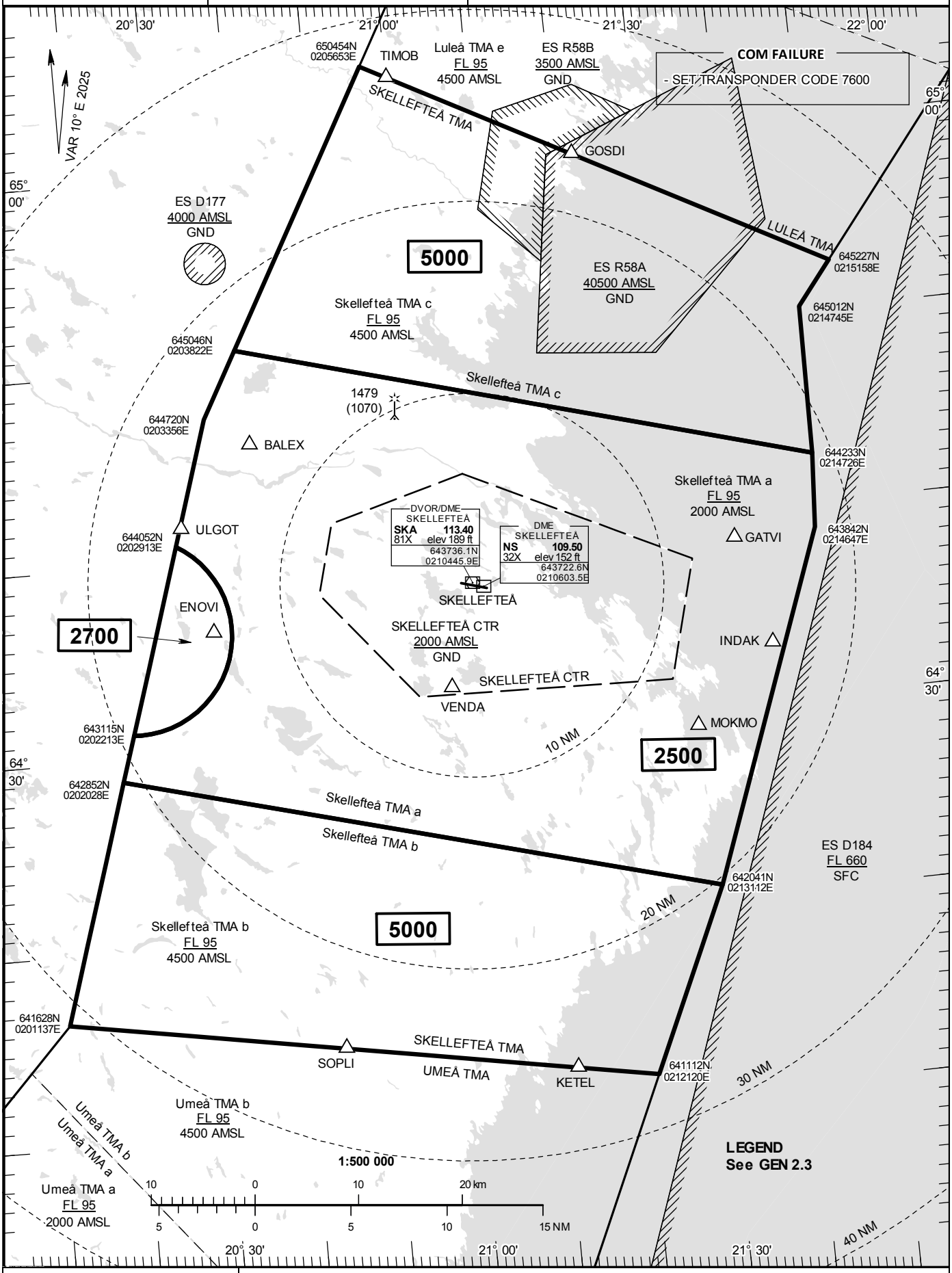
ATC Provider, Airspace information
See ENR 2.1
LEGEND
See GEN 2.3
ALT and ELEV in ft

Reverse side intentionally blank

AD ELEV 158 FEET
HGT and ALT in ft
TA 5000 AMSL

SKELLEFTEÅ TOWER 122.055

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



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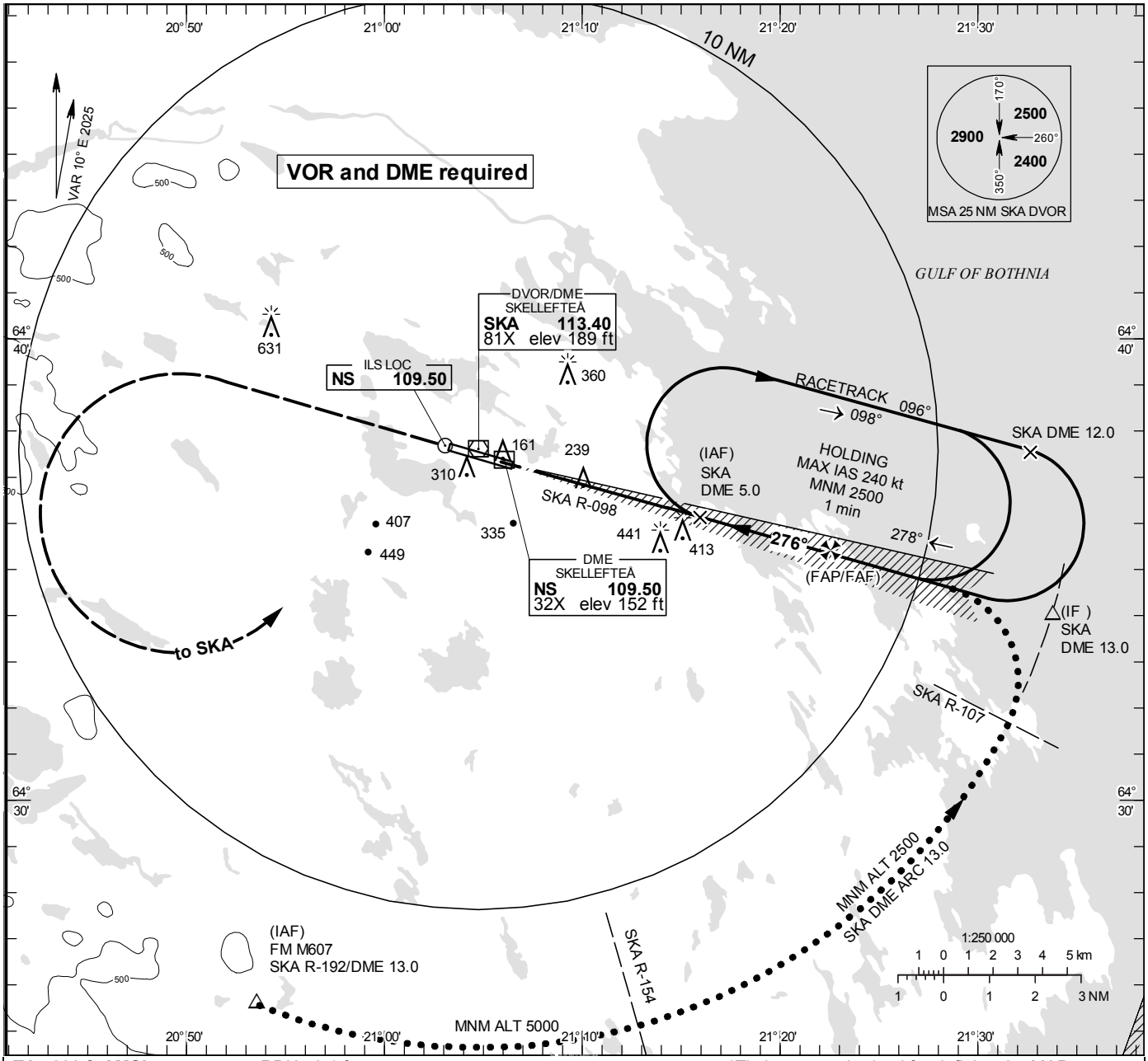
INSTRUMENT APPROACH CHART – ICAO

THR ELEV 122.3 ft, AD ELEV 158 ft
OCH are related to THR.
Circling OCH are related to AD ELEV.
BRG are MAG
ALT. HGT and ELEV in ft.

SKELLEFTEÅ TOWER 122.055

ILS or LOC RWY 28

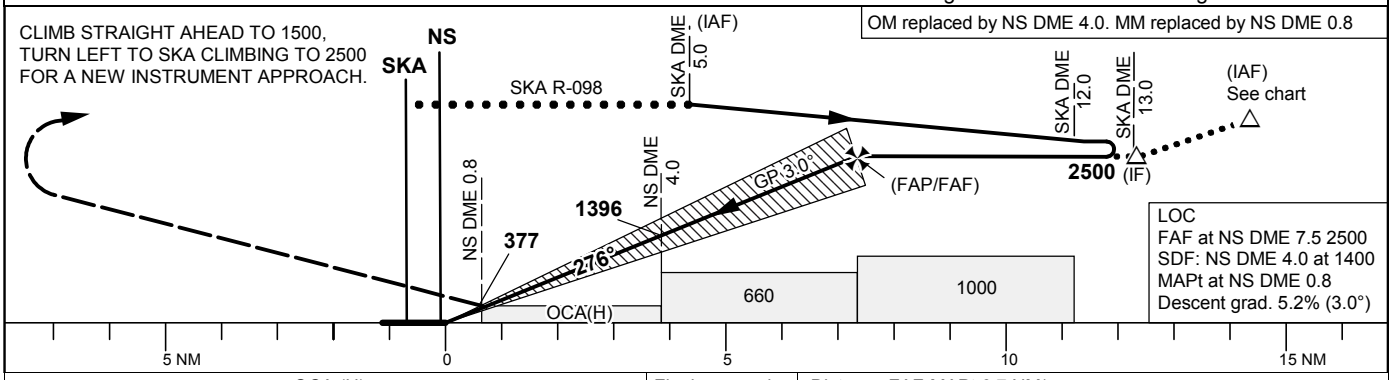


TA 5000 ft AMSL RDH 53.1 ft

*Timing not authorized for defining the MAPt

OM replaced by NS DME 4.0. MM replaced by NS DME 0.8

CLIMB STRAIGHT AHEAD TO 1500,
TURN LEFT TO SKA CLIMBING TO 2500
FOR A NEW INSTRUMENT APPROACH.



LOC
FAF at NS DME 7.5 2500
SDF: NS DME 4.0 at 1400
MAPt at NS DME 0.8
Descent grad. 5.2% (3.0°)

OCA (H)						Final approach	Distance FAF-MAPt 6.7 NM*					
Cat of ACFT		A	B	C	D	DME NS NM	2	3	4	5	6	7
Straight-in Approach	Cat I	263 (140)	272 (149)	282 (159)	296 (173)	ALT	760	1080	1400	1720	2030	2350
	LOC	490 (370)				GS	kt	80	100	120	140	160	180
Circling		630 (480)	710 (560)	850 (700)	1030 (880)	Time	min:s	5:00	4:00	3:20	2:51	2:30	2:13
						Rate of descent	ft/min	425	530	635	745	850	955

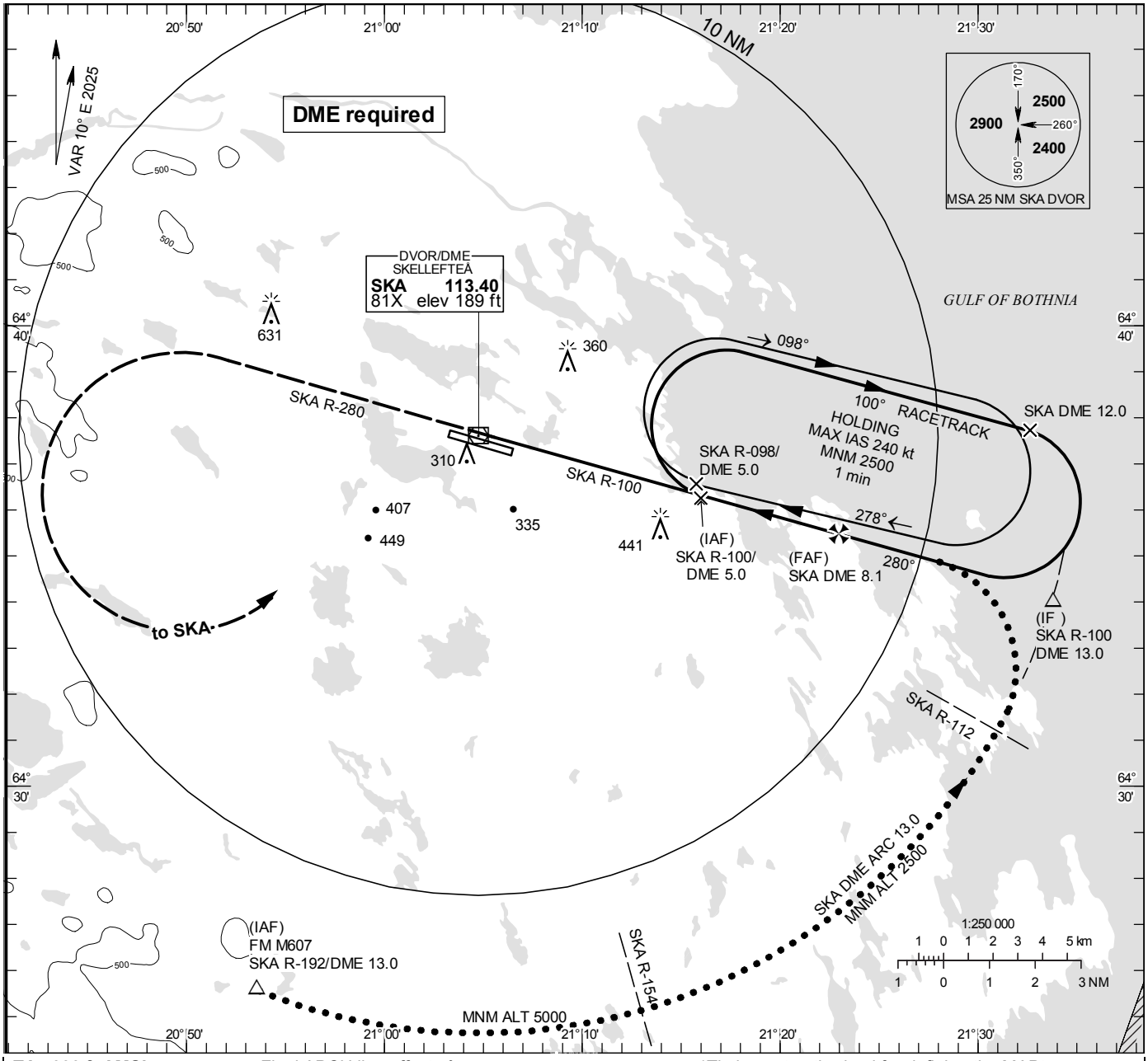
Reverse side intentionally blank

INSTRUMENT APPROACH CHART – ICAO

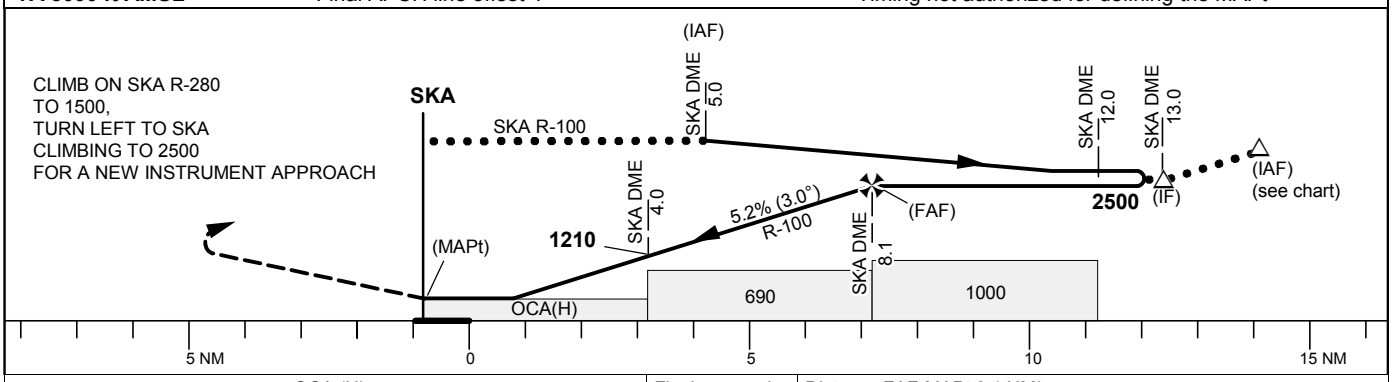
THR ELEV 122.3 ft, AD ELEV 158 ft
OCH are related to THR.
Circling OCH are related to AD ELEV.
BRG are MAG
ALT. HGT and ELEV in ft.

SKELLEFTEÅ TOWER 122.055

VOR RWY 28



TA 5000 ft AMSL Final APCH line offset 4° *Timing not authorized for defining the MAPt



OCA (H)					Final approach	Distance FAF-MAPt 8.1 NM*					
Cat of ACFT	A	B	C	D	DME SKA NM	2	3	4	5	6	7
Straight-in Approach	500 (380)				ALT	570	880	1200	1520	1840	2160
					GS	kt	80	100	120	140	160	180
Circling	630 (480)	710 (560)	850 (700)	1030 (880)	Time	min:s	6:03	4:51	4:02	3:28	3:02	2:41
					Rate of descent	ft/min	425	530	635	745	850	955

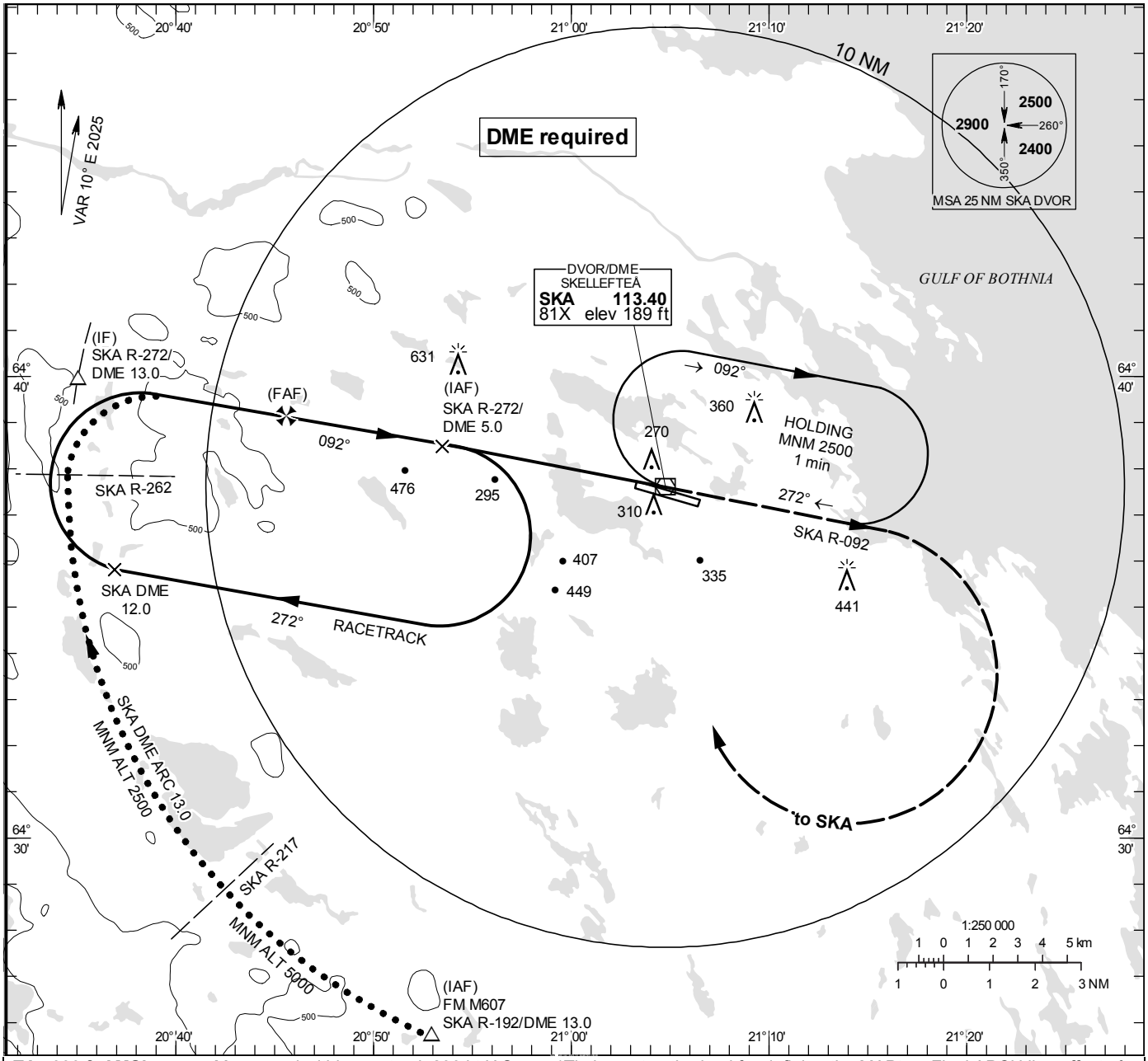
Reverse side intentionally blank

INSTRUMENT APPROACH CHART – ICAO

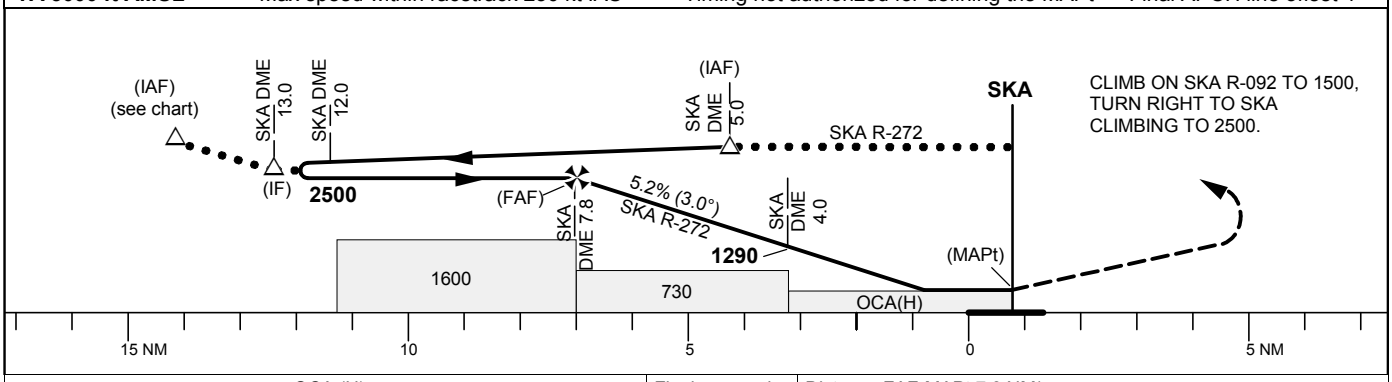
THR ELEV 158 ft, AD ELEV 158 ft
OCH are related to THR.
Circling OCH are related to AD ELEV.
BRG are MAG
ALT. HGT and ELEV in ft.

SKELLEFTEÅ TOWER 122.055

VOR RWY 10



TA 5000 ft AMSL Max speed within racetrack 230 kt IAS *Timing not authorized for defining the MAPt Final APCH line offset 4°



OCA (H)					Final approach	Distance FAF-MAPt 7.8 NM*					
Cat of ACFT	A	B	C	D	DME SKA NM	7	6	5	4	3	2
Straight-in Approach	550 (400)				ALT	2250	1930	1610	1290	970	650
					GS	kt	80	100	120	140	160	180
Circling	630 (480)	710 (560)	850 (700)	1030 (880)	Time	min:s	5:51	4:41	3:54	3:21	2:55	2:36
					Rate of descent	ft/min	425	530	635	745	850	955

Reverse side intentionally blank

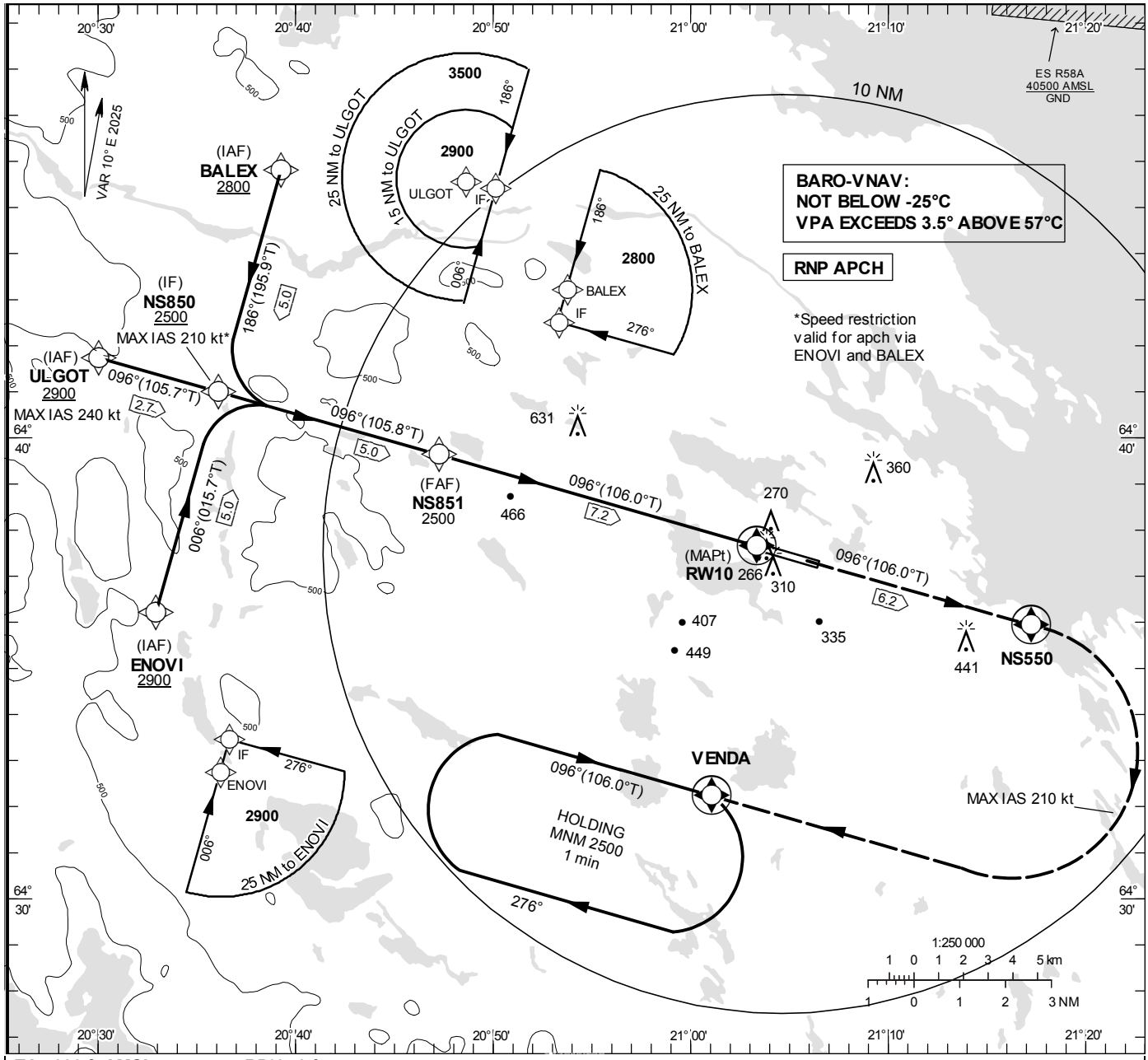
INSTRUMENT APPROACH CHART – ICAO

THR ELEV 158 ft, AD ELEV 158 ft
OCH are related to THR.
BRG are MAG (True).
ALT, HGT and ELEV in ft.

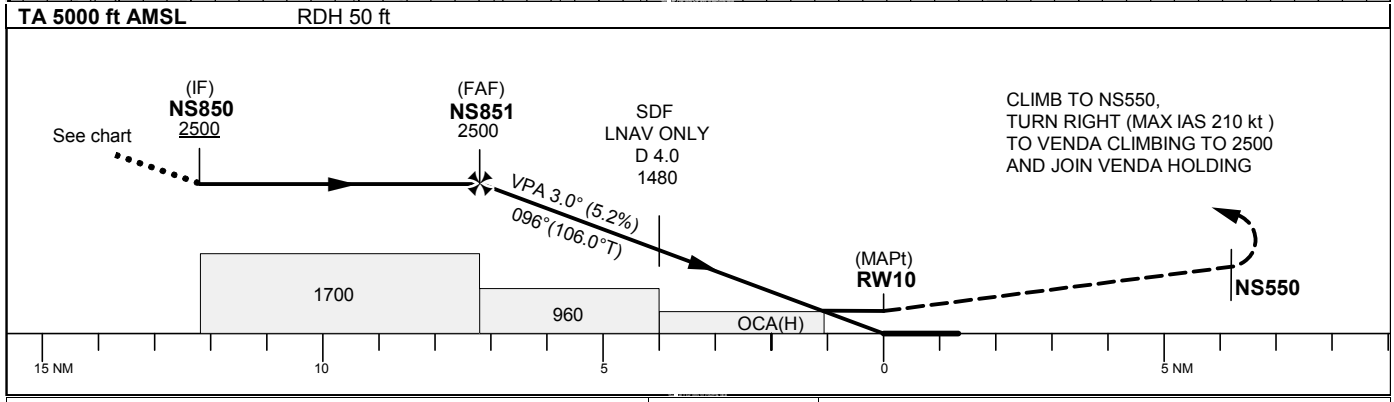
SKELLEFTEÅ TOWER 122.055

RNP RWY 10

EGNOS CH 72334 E10A



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 RW10	7	6	5	4	3	2	1
LPV	396 (238)	408 (250)	417 (259)	427 (269)	ALT	2440	2120	1800	1480	1160	840	530
LNAV/VNAV	401 (243)	413 (255)	461 (303)	471 (313)	GS	kt	80	100	120	140	160	180
LNAV	540 (390)				Rate of descent	ft/min	425	530	635	745	850	955
Circling	630 (480)	710 (560)	850 (700)	1030 (880)								

RNP RWY 10 via BALEX

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
IF	BALEX	-	-	-	-	+2800	-	-	-	RNP APCH
TF	NS850	-	186°(195.9°)	5.0	-	+2500	-210	-	-	RNP APCH

RNP RWY 10 via ENOVI

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
IF	ENOVI	-	-	-	-	+2900	-	-	-	RNP APCH
TF	NS850	-	006(015.7°)	5.0	-	+2500	-210	-	-	RNP APCH

RNP RWY 10 via ULGOT

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
IF	ULGOT	-	-	-	-	+2900	-240	-	-	RNP APCH
TF	NS850	-	096°(105.7°)	2.7	-	+2500	-	-	-	RNP APCH

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
IF	NS850	-	-	-	-	+2500	-	-	-	RNP APCH
TF	NS851	-	096°(105.8°)	5.0	-	@2500	-	-	-	RNP APCH
TF	RW10	Y	096°(106.0°)	7.2	-	@208	-	-3.0/50	-	RNP APCH
TF	NS550	Y	096°(106.0°)	6.2	-	-	-	-	-	RNP APCH
DF	VENDA	Y	-	-	R	+2500	-210	-	-	RNP APCH

ESNS Holding VENDA

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
HM	VENDA	Y	096°(106.0°)	-	R	+2500	-	-	-	RNAV 1

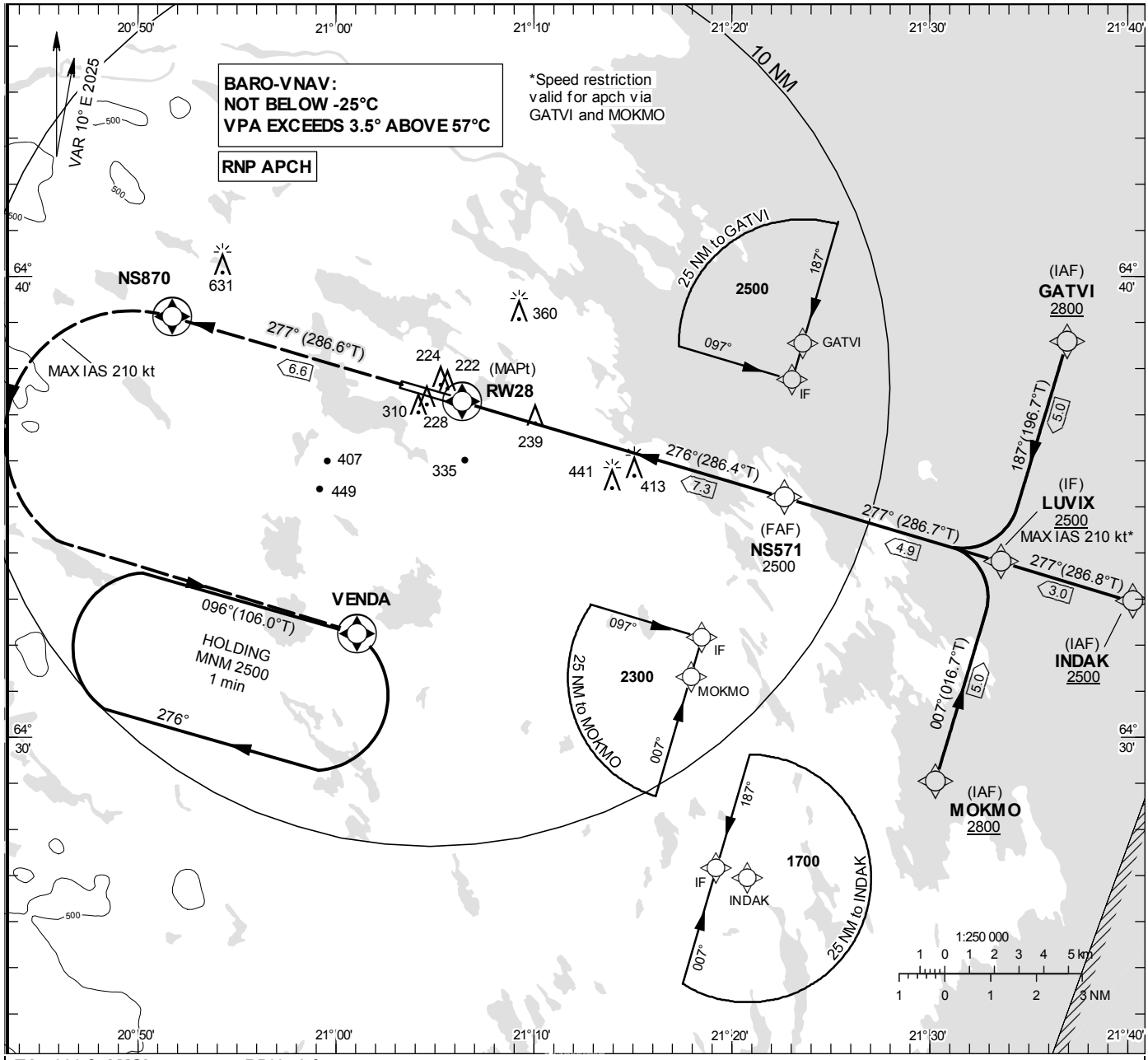
INSTRUMENT APPROACH CHART – ICAO

THR ELEV 122.3 ft, AD ELEV 158 ft
OCH are related to THR.
BRG are MAG (True).
ALT, HGT and ELEV in ft.

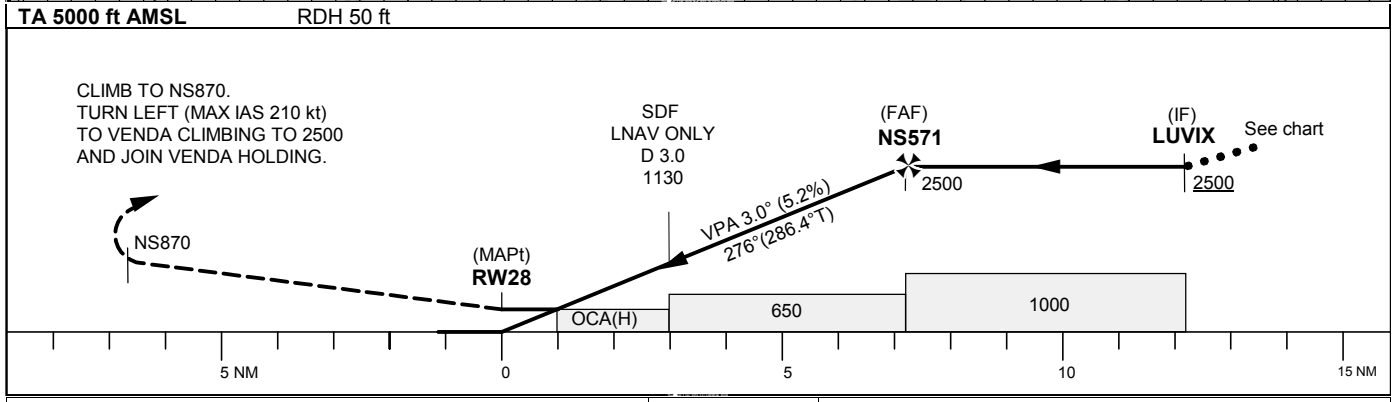
SKELLEFTEÅ TOWER 122.055

RNP RWY 28

EGNOS CH 97976 E28A



TA 5000 ft AMSL RDH 50 ft



OCA (H)					Final approach	Distance FAF-MAPt 7.3 NM						
Cat of ACFT	A	B	C	D	Dist to RW28	1	2	3	4	5	6	7
LPV	358 (236)	371 (249)	379 (257)	389 (267)	ALT	490	810	1130	1450	1760	2080	2400
LNAV/VNAV	352 (230)	365 (243)	375 (253)	401 (279)	GS	kt	80	100	120	140	160	180
LNAV	490 (370)				Rate of descent	ft/min	425	530	635	745	850	955
Circling	630 (480)	710 (560)	850 (700)	1030 (880)								

RNP RWY 28 via GATVI

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
IF	GATVI	-	-	-	-	+2800	-	-	-	RNP APCH
TF	LUVIX	-	187°(196.7°)	5.0	-	+2500	-210	-	-	RNP APCH

RNP RWY 28 via INDAK

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
IF	INDAK	-	-	-	-	+2500	-	-	-	RNP APCH
TF	LUVIX	-	277°(286.8°)	3.0	-	+2500	-	-	-	RNP APCH

RNP RWY 28 via MOKMO

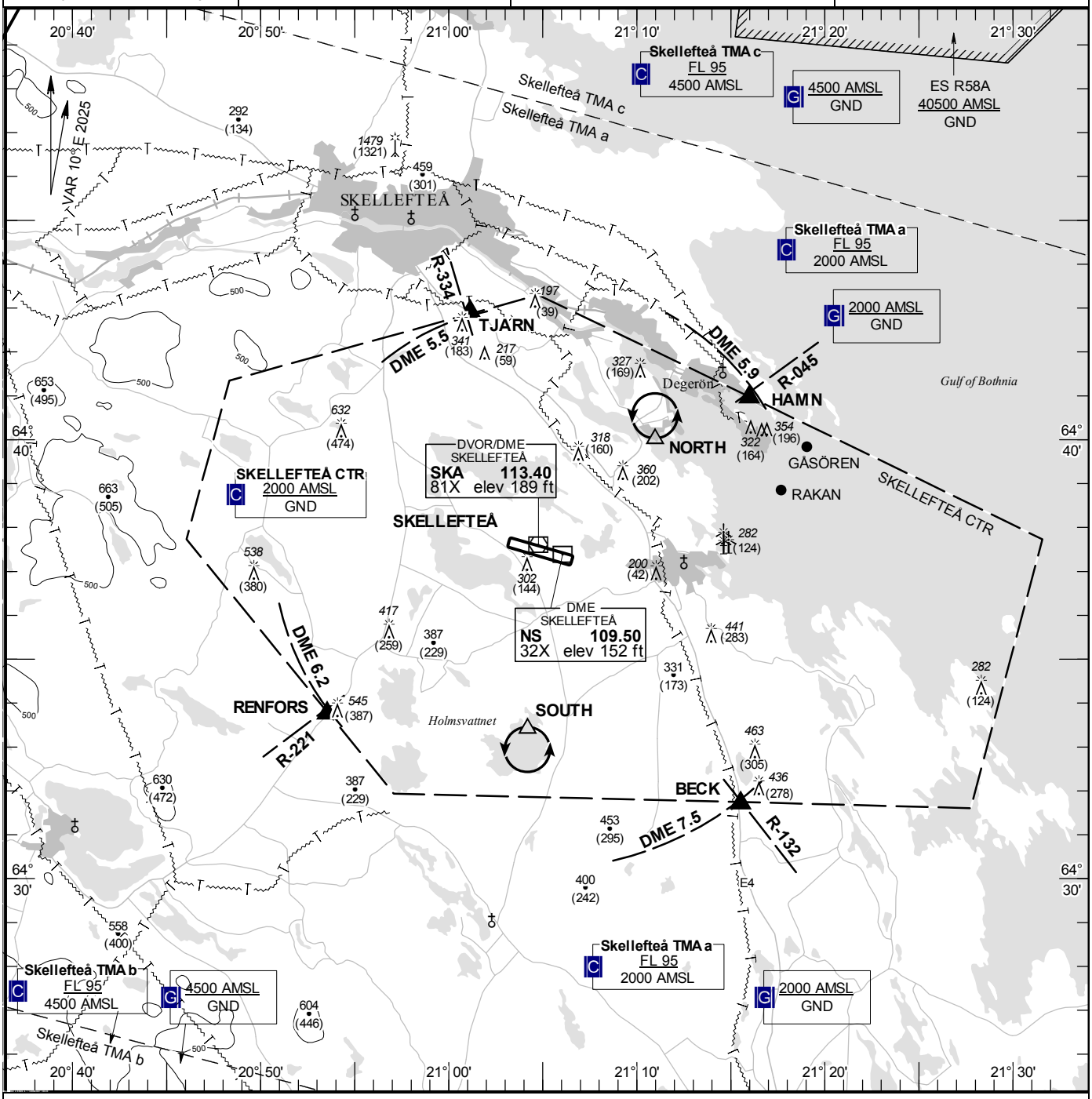
Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
IF	MOKMO	-	-	-	-	+2800	-	-	-	RNP APCH
TF	LUVIX	-	007°(016.7°)	5.0	-	+2500	-210	-	-	RNP APCH

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
IF	LUVIX	-	-	-	-	+2500	-	-	-	RNP APCH
TF	NS571	-	277°(286.7°)	4.9	-	@2500	-	-	-	RNP APCH
TF	RW28	Y	276°(286.4°)	7.3	-	@173	-	-3.0/50	-	RNP APCH
TF	NS870	Y	277°(286.6°)	6.6	-	-	-	-	-	RNP APCH
DF	VENDA	Y	-	-	L	+2500	-210	-	-	RNP APCH

ESNS Holding VENDA

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
HM	VENDA	Y	096°(106.0°)	-	R	+2500	-	-	-	RNAV 1

VISUAL APPROACH CHART - ICAO 1:250000 1 0 1 2 3 4 5 km 1 0 1 2 3 NM	AD ELEV 158 FEET ELEV and ALT in ft HGT in ft above AD ELEV TA 5000 AMSL	SKELLEFTEÅ TOWER 122.055	AD 2 ESNS 6-1 SKELLEFTEÅ SWEDEN



Communication failure

1. SQUAWK 7600
2. Enter CTR via TJARN/HAMN – Holding NORTH at or below 1000 ft AMSL to traffic circuit. Transmit blind your intentions.
3. Flash LDG-lights and watch TWR for optical signals.

Remark

NIL

RWY NR	THR ELEV	PAPI (MEHT)
10	158 ft	Left/3.00° (56 ft)
28	122.3 ft	Left/3.00° (56 ft)

Legend

See GEN 2.3

Entry / exit point

TJARN	644254N 0210108E
HAMN	644057N 0211559E
BECK	643142N 0211531E
RENFORS	643345N 0205332E

Holding

NORTH: Hold above Degerön, north of point 644000N 0211057E

SOUTH: Hold above Holmsvattnet, south of point 643324N 0210411E

Terminal 5
Taxning eller bogsering är inte tillåten på uppställningsplattan mellan ZH-ZK och ZL-ZN.
Intaxning från TWY till platta FA via ZN endast tillåtet med flygplan med max vingspann 36 m. Flygplan med vingspann mer än 36 m endast tillåtet via ZN vid parkering på plats 8.
Intaxning till plats 9 ska utföras via ZL.
Intaxning till plats 10 ska utföras via ZN.
Intaxning till plats 19 ska utföras via ZH.
Intaxning till plats 20 ska utföras via ZK.
Uttaxning från platserna 1-7 ska utföras via ZL.
Uttaxning från platserna 12-18 ska utföras via ZK.

3.2 Restriktioner vingspann

Maximalt vingspann 24 m för taxning på platta S söder om SC.

3.3 Jetstrålar

Minsta möjliga motoreffekt ska användas på alla plattor vid taxning för att undvika jetstrålar.

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.

5. Föreskrifter för uppställningsplats

5.1 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 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-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 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.

Terminal 5
Taxiing or towing on apron area is not allowed between ZH-ZK and ZL-ZN.
Taxiing from TWY to apron FA via ZN only allowed for aircraft with max wingspan 36 m. Aircraft with wingspan more than 36 m only allowed via ZN if parking at stand 8.
Taxiing to stand 9 shall take place only via ZL.
Taxiing to stand 10 shall take place only via ZN.
Taxiing to stand 19 shall take place only via ZH.
Taxiing to stand 20 shall take place only via ZK.
Taxiing out from stand 1-7 shall take place via ZL.
Taxiing out from stand 12-18 shall take place via ZK.

3.2 Wing span restrictions

Maximum wing span 24 m for taxiing on apron S south of SC.

3.3 Jet Blast

Engines shall be operated at minimum required thrust on all aprons when taxiing to avoid jetblast.

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. Stand regulations

5.1 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.

5.2 Push and Hold

When delayed by CTOT, aircraft may be ordered to push and hold to release stand capacity according to instructions from TWR.

5.3 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.

5.4 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.

5.5 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.

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
SK ICE	08 797 59 96

6.2 Procedur

Avisning genomförs på uppställningsplats eller annan anvisad avisningsplats.
På T2 utförs push-back innan avisning påbörjas.

7. Banföreskrifter

7.1 Begäran om annan bana

Begäran om annan bana än den i användning medges endast av flygsäkerhetsskäl, HOSP eller av prestandaskäl.

7.2 Inflyttad startposition

Flygplan ska begära inflyttad startposition från ”GROUND” tidigast på TWY eller vid första kontakt med TWR.

7.3 High intensity runway operations (HIRO)

I avsikt att 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.

5.5 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. 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
SK ICE	+46(0)8 797 59 96

6.2 Procedure

De-icing will take place at parking stand or other advised de-icing spot.
At T2 push-back will be performed before de-icing starts.

7. RWY regulations

7.1 RWY other than in use

RWY other than in use only permitted due flight safety, HOSP or performance.

7.2 Intersection take-off position

Aircraft shall request intersection take-off position from ”GROUND” earliest when on TWY or on initial contact with TWR.

7.3 High intensity runway operations (HIRO)

In order to reduce delays and expedite traffic HIRO should be applied to all aircraft. Short runway occupancy times allow for the highest possible throughput per hour.

7.3.1 HIRO for departing aircraft

- On receipt of clearance to line-up, pilots should taxi into the correct position on the RWY without delay.
- Pilot should commence take-off roll immediately when take-off clearance is issued.
- Pilots who are unable to comply with these requirements shall notify ATC when transferred to Arlanda TWR.

7.3.2 HIRO for arriving aircraft

- HIRO requires all aircraft to exit the runway as quickly as possible. Extended runway occupancy time may result in the following aircraft being assigned a missed approach.
- During approach briefing pilots should plan and name which rapid exit taxiway (if applicable) they will vacate.
- In case the aircraft will miss the planned exit, pilots shall adjust taxi speed to quickly vacate the runway via the next rapid exit taxiway (if applicable). Low taxi speeds on the runway shall be avoided.

Distanser från RWY THR till svängpunkt på RWY CL:

Distances from RWY THR to turn-off point on RWY CL:

RWY 01L	Y4	33˚	1084 m
RWY 01L	Y6	RET	1464 m
RWY 01L	Y8	RET	2037 m
RWY 01L	Y9	90˚	2437 m
RWY 19R	Y7	33˚	1084 m
RWY 19R	Y5	RET	1464 m
RWY 19R	Y3	RET	2067 m
RWY 19R	Y2	90˚	2437 m
RWY 01R	W5	RET	1486 m
RWY 01R	W6	RET	1916 m
RWY 19L	W4	RET	1466 m
RWY 19L	W3	RET	1916 m
RWY 26	X3	RET	1701 m

7.4 Efter landning

Om ingen taxiinstruktion har erhållits efter landning ska luftfartyg lämna banan och stanna före första parallella taxibana och där invänta taxiinstruktion.

7.4 After landing

If no taxi instructions have been received after landing, aircraft shall vacate the runway, hold before the first parallel taxiway and wait for taxi instructions.

8. Restriktioner för övrig flygning

8.1 Skol-, övnings- och uppvisningsflyg

Det är inte tillåtet att utföra upprepade start- och landnings-övningar, ensamflygning under grundutbildning samt uppvisningsflyg på eller i närheten av flygplatsen.

8.2 Foto-, mät- och kalibreringsflyg

Förhandstillstånd (PPR) ska inhämtas 30 dagar innan planerat genomförande. Förhandstillstånd ska inhämtas från skiftledare Arlanda TWR,
TEL 08 585 544 50, e-post essaws@lfv.se

8. Restrictions for other flights

8.1 School flights, training flights and aerobatics

Repeated take-off and landing exercises, solo flight during basic training and aerobatics at or in the vicinity of the airport, is not permitted.

8.2 Photo-, survey- and calibration flights

Prior permission required (PPR) 30 days in advance of planned activity. PPR shall be obtained from watch supervisor Arlanda TWR,
phone +46 (0)8 585 544 50, e-mail essaws@lfv.se

9. D-ATIS

D-ATIS tillgängligt via ACARS för FPL utrustade med ACARS-MU. (AEEC 623 kompatibla) (ARINC är leverantör för datalänkkommunikation och ESSA flygplats för ATIS service.)

9. D-ATIS

D-ATIS service available by ACARS for ACFT equipped with ACARS-MU. (AEEC 623 compliant) (Provider is ARINC for datalink com and ESSA airport for ATIS service.)

ESSA 2.21 MINSKNING AV BULLERSTÖRNING

1. Motorreversering

Utom för flygsäkerhetsskäl ska inte mer än idle-reverse användas mellan 2100-0500 (2000-0400).

2. Bananvändning

Av miljöskäl för att minska buller tillämpas följande;

- Bana 01R är inte tillgänglig för landning 2100-0500 (2000-0400)
- Bana 19R är inte tillgänglig för start utom då det krävs av prestandaskäl 2100-0500 (2000-0400)
- Bana 08 är inte tillgänglig för landning utom då det krävs till följd av vindförhållanden
- Bana 26 är inte tillgänglig för start utom då det krävs till följd av vindförhållanden

Undantag från dessa restriktioner får göras under särskilda förhållanden, till exempel väderlek, banarbeten m.m.

NOISE ABATEMENT PROCEDURES

1. Reverse thrust

Except for safety reasons do not use more than idle-reverse thrust between 2100-0500 (2000-0400).

2. Use of RWY

For environmental reasons to minimize noise disturbance following applies;

- RWY 01R is not available for landing 2100-0500 (2000-0400)
- RWY 19R is not available for take-off unless required for performance reasons 2100-0500 (2000-0400)
- RWY 08 is not available for landing unless required for wind conditions
- RWY 26 is not available for take-off unless required for wind conditions

Exceptions from these restrictions may be allowed during special conditions, eg. weather, runway closures etc.

3. CDA

Användandet av CDA rekommenderas förutsatt att kraven för fartrestriktioner från ATCC kan upprätthållas. ATCC kan när trafiksituationen kräver ge sjunkklarering som inte överenstämmer med CDA procedur.

4. NADP

Standardprocedur för reduktion av buller bör tillämpas enligt ICAO NADP 2 för alla SID.
Ref ICAO Procedures for Navigation Services Aircraft Operations Doc 8168 Vol I.

3. CDA

The use of CDA is recommended provided this is consistent with ATCC speed control requirements.
ATCC may give descent clearance which do not comply with CDA procedures when traffic situation so require.

4. NADP

Standard procedure for noise reduction is recommended to be applied in accordance with ICAO NADP 2 for all departures on SID.
Ref ICAO Procedures for Navigation Services Aircraft Operations Doc 8168 Vol I.

ESSA 2.22 FLYGPROCEDURER

1. Ankommande IFR trafik

1.1 Planering

Ankommande trafik ska planeras via följande TMA punkter; NILUG, XILAN, HMR och ELTOK.

Mellan 2330-0430 (2230-0330) kan den kortaste sträckan mellan inpasseringspunkten till terminalområdet och FAP betraktas som förväntad färdväg till den punkt där instrumentinflygningsproceduren börjar. Avsteg från färdvägen kan betraktas som en förseningsåtgärd.

1.1.1 Höjdrestriktioner

Förare ska planera inpassering i Stockholm TMA på höjder enligt STAR-beskrivningar publicerade på ESSA 4-49 till ESSA 4-68.

Fartrestriktioner före inpassering i TMA förekommer. Planera sjunk så att högsta inpasseringshöjd i TMA ej överskrids trots fartrestriktioner.

1.2 Hastighetsbegränsning

Utom när det särskilt anges kommer följande hastigheter tillämpas. Luftfartyg som inte kan hålla tilldelad hastighet ska meddela ATCC. Luftfartyg under FL100 ska flyga maximalt IAS 250 kt. När luftfartyg är etablerat på slutlig inflygning ska IAS 160 kt bibehållas till DME fix motsvarande OM passerats enligt IAC.

1.3 Separation

2.5 NM separation kan tillämpas i enlighet med förutsättningarna i ENR 1.6 mom 2.

1.4 Visuellinflygning

Visuell inflygning tillåts endast när inflygningshjälpmedel är ur funktion eller för att undvika signifikanta väderförhållanden.

Luftfartyg som är klarerad visuellinflygning ska bibehålla 2500 ft tills etablerad på slutlig inflygningslinje och fortsatt sjunk ska följa sjunkprofil som inte resulterar i en lägre sjunkprofil än den som följs när ILS-glidbana används.

FLIGHT PROCEDURES

1. Inbound IFR traffic

1.1 Planning

Inbound traffic shall be planned via following TMA entry points: NILUG, XILAN, HMR and ELTOK.

Between 2330-0430 (2230-0330) the shortest distance from the TMA entry point to the FAP may be seen as the expected track to the start of the instrument approach procedure. Deviation from the track may be regarded as a delaying action.

1.1.1 Descent planning

Pilots shall plan descent into Stockholm TMA in accordance with STAR descriptions as published on ESSA 4-49 through ESSA 4-68.

Speed restrictions before entering the TMA can be expected. Plan descent so that highest entry level into the TMA is not exceeded in spite of speed restrictions.

1.2 Approach speed limits

Unless otherwise instructed following speeds applies. Aircraft unable to conform shall inform ATCC. Aircraft below FL100 shall fly at maximum IAS 250 kt. When established on final approach track, aircraft shall maintain IAS 160 kt until passing DME distance corresponding to OM stated on IAC.

1.3 Separation

2.5 NM separation can be used in accordance with conditions described in ENR 1.6 para 2.

1.4 Visual approach

Visual approach will only be permitted if approach aids are unserviceable or to avoid significant weather conditions.

Aircraft cleared visual approach shall maintain 2500 ft until established on final track and further descent shall not be below a descent path that would be followed using the ILS-glide path.

2. Avgående IFR trafik

2.1 Planering

Avgående trafik ska planera via följande TMA punker; ARS, BABAP, PETEV, KOGAV, TOVRI, NOSLI, RESNA och TRS.

2.1.1 Avgående trafik mot ESSB

Trafik ska planeras via SBA. Klarering kommer att innehålla informationer om SID eller vektorering beroende på bana i användning på STOCKHOLM/Arlanda och STOCKHOLM/ Bromma

2.1.2 Avgående trafik mot ESCM

Trafik ska planeras via KOGAV. Klarering kommer att innehålla informationer om SID eller vektorering beroende på bana i användning på STOCKHOLM/Arlanda och UPPSALA.

2.2 Stighastighet

Jetflygplan som 2 NM efter start inte kan stiga med IAS 190 kt eller mer, ska meddela TWR före start.

2.3 Första kontakt på FMS/RNAV SID

Avgående luftfartyg ska skifta frekvens till STOCKHOLM DEPARTURE först efter instruktioner från TWR. Vid första anrop ska höjd rapporteras för att verifiera SSR mod C kod.

2.3.1 Luftfartyg som inte kan följa FMS/RNAVSID

Luftfartyg ska informera “Clearence Delivery”. Luftfartyg kommer att vektoreras till utflygningspunkt angiven i färdplan. Avgående luftfartyg ska skifta frekvens till ”STOCKHOLM DEPARTURE först efter instruktioner från TWR. Vid första kontakt rapportera höjd och ange ”UNABLE RNAV SID”.

2.4 Avgångar utan SID

IFR-trafik som inte klareras via SID kommer att vektoreras. Proceduren tillämpas vid följande förhållanden;

- 0500-2100 (0400-2000)
- För propeller/turbo prop flygplan med MTOM på 9000 kg eller mindre
- För propeller/turbo prop flygplan med MTOM mer än 9000 kg men mindre än 136000 kg certifierade i enlighet med kapitel 3, 4 eller 5
- Klarering att stiga lämnas initial till 3000 ft
- Om inte annat angivits från TWR ska sväng till angiven kurs påbörjas när 600 ft passerats
  Start från bana 19R kommer initialt att klareras på SID till 3000 ft
- Luftfartyg ska bibehålla ROC 700 ft/min eller mer. Är detta inte möjligt ska ATC informeras

2. Outbound IFR traffic

2.1 Planning

Outbound traffic shall be planned via following exit points: ARS, BABAP, PETEV, KOGAV, TOVRI, NOSLI, RESNA and TRS.

2.1.1 Outbound traffic destination ESSB

Traffic shall be flight planned via SBA. Clearance will be given on SID or vectoring in accordance with runway in use at STOCKHOLM/Arlanda and STOCKHOLM/Bromma.

2.1.2 Outbound traffic destination ESCM

Traffic shall be flight planned via KOGAV. Clearance will be given on SID or vectoring in accordance with runway in use at STOCKHOLM/Arlanda and UPPSALA.

2.2 Climb speed

Jet aircraft unable to climb with IAS 190 kt or more 2 NM after take-off shall inform TWR before take-off.

2.3 Initial contact on FMS/RNAV SID

Departing aircraft shall change frequency to STOCKHOLM DEPARTURE only when instructed from TWR. At first contact report altitude to verify SSR mode C.

2.3.1 Aircraft not able follow FMS/RNAV SID

Aircraft shall inform Clearance Delivery. Aircraft will be vectored to exit point stated in flight plan.
Departing aircraft shall change frequency to STOCKHOLM DEPARTURE only when instructed from TWR. At first contact report altitude and state “UNABLE RNAV SID”.

2.4 Non SID departures

IFR traffic not cleared via SID will be vectored. The procedure will be used with following conditions:

- 0500-2100 (0400-2000)
- For prop/turbo-prop aircraft with MTOM 9000 kg or less
- For prop/turbo-prop aircraft with MTOM more than 9000 kg but less than 136000 kg certified in accordance with Chapter 3, 4 or 5
- Initial climb clearance will be 3000 ft
- Unless otherwise instructed by TWR turn to assigned heading shall be initiated when passing 600 ft
  TKOF RWY 19R will initially be cleared on SID to 3000 ft
- Aircraft shall maintain ROC 700 ft/min or more. If unable inform ATC

2.5 Startprocedurer omnidirectional

2.5 Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
01L	Climb straight ahead to MNM turning ALT 600 ft. Continue climb to appropriate MSA.	Tree (CIO)	185	014°/3745
19R	Climb straight ahead to MNM turning ALT 600 ft. Continue climb to appropriate MSA.	-		
01R	Climb straight ahead to MNM turning ALT 600 ft. Continue climb to appropriate MSA.	-		
19L	Climb straight ahead to MNM turning ALT 600 ft. Continue climb to appropriate MSA.	-		
08	Climb straight ahead to MNM turning ALT 600 ft. Continue climb to appropriate MSA.	Tree (CIO)	176	072°/3060
26	Climb straight ahead to MNM turning ALT 600 ft. Continue climb to appropriate MSA.	-		

3. Radio kommunikation

3.1 Dubbelriktad radioförbindelse

Avsteg från kraven på dubbelriktad radioförbindelse medges inte.

3.2 Radiobortfall

Luftfartyg ska följa procedurerna i ENR 1.3 mom 10. För IFR trafik ankommande mot STOCKHOLM/Arlanda gäller följande tilläggsprocedurer;

- Bibehåll senast tilldelad bekräftad höjd
- Fortsätt mot relevant inflygningspunkt för TMA
- Fortsätt mot TEB VOR
- I TEB väntläge sjunk till 2500 ft
- Utför inflygningsförfarande enligt nedan:

3. Radio communication

3.1 Two way radio communication

Exception from two-way radio communication is not accepted.

3.2 Communication failure

Aircraft shall follow procedures in ENR 1.3 para 10. For IFR traffic inbound STOCKHOLM/Arlanda following additional procedures will apply;

- Maintain last received and acknowledged altitude
- Proceed to relevant entry point in TMA
- Proceed to TEB VOR
- In TEB holding descent to 2500 ft
- Carry out approach in accordance with:

RWY	
01L	Intercept TEB R-231 and proceed to TEB DME 9.0. Turn right to intercept LOC SSA, not below 2500 ft until FAP/FAF (SSA DME 7.6).
19R	Intercept TEB R-345 and proceed to TEB DME 17.8. Turn left to intercept LOC NSA, not below 2500 ft until FAP/FAF (NSA DME 7.5).
01R	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	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	Intercept TEB R-269 and proceed to TEB DME 17.0. Turn right to intercept LOC WSA, not below 2500 ft until FAF (ARL DME 6.6).
26	Intercept TEB R-026 and proceed to TEB DME 8.4. Turn left to intercept LOC ESA, not below 2500 ft until FAP/FAF (ESA DME 7.5).

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.

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.

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
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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
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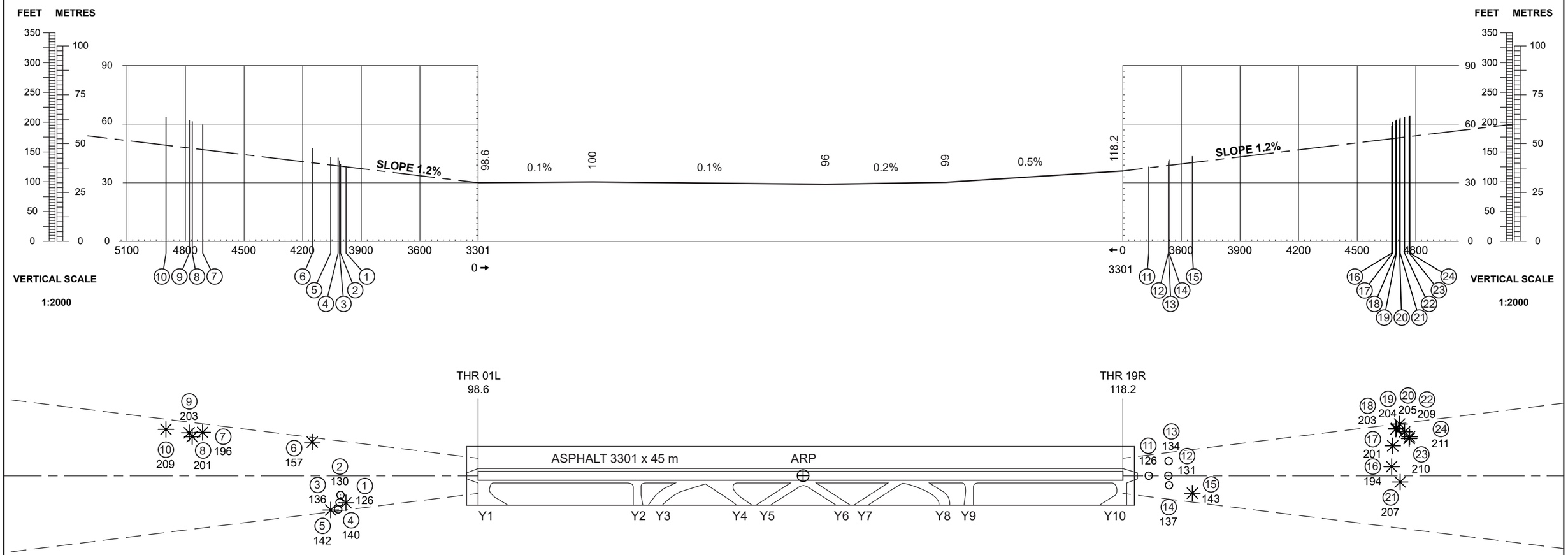
RNAV (DME/DME or GNSS) STAR Open	RWY 26	ESSA 4-67
ATC Surveillance Minimum ALT chart		ESSA 4-91
IAC	ILS or LOC RWY 01L	ESSA 5-1
IAC	ILS or LOC RWY 19R	ESSA 5-2
IAC	ILS or LOC RWY 01R	ESSA 5-3
IAC	ILS or LOC RWY 19L	ESSA 5-4
IAC	ILS or LOC RWY 26	ESSA 5-5
IAC	LOC RWY 08	ESSA 5-6
IAC	Com failure procedure 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 z 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

IAC	RNP z RWY 26	ESSA 5-35
IAC	RNP y RWY 26 (AR)	ESSA 5-39
VAC		ESSA 6-1

AERODROME ELEVATION 138 FEET
MAGNETIC VARIATION 6° E 2020

RUNWAY BEARINGS
01L = GEO 010.37°; MAG 004°
19R = GEO 190.38°; MAG 184°

RWY 01L	DECLARED DISTANCES	RWY 19R
3301	TAKE-OFF RUN AVAILABLE	3301
3301	TAKE-OFF DISTANCE AVAILABLE	3301
3301	ACCELERATE STOP DIST. AVAILABLE	3301
3301	LANDING DISTANCE AVAILABLE	3301



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 0.5 m

LEGEND	
IDENTIFICATION NUMBER	②
POLE, TOWER, SPIRE, ANTENNA, ETC.	○
TREE OR SHRUB	✳
BUILDING OR LARGE STRUCTURE	▭

List of Waypoints and significant points at STOCKHOLM/Arlanda (ESSA)

WPT	Coordinates
ARC53	594347.8N 0180649.0E
RW01L	593814.11N 0175447.60E
RW01R	593735.03N 0175702.67E
RW08	593930.31N 0175610.08E
RW19L	593854.48N 0175731.49E
RW19R	593959.04N 0175525.56E
RW26	593950.03N 0175844.95E
SA401	594405.6N 0175655.0E
SA402	594510.2N 0180858.2E
SA403	595054.3N 0175743.5E
SA404	594011.8N 0175759.6E
SA405	594216.7N 0180931.8E
SA406	594327.0N 0182501.3E
SA408	594802.6N 0180052.7E
SA409	600140.9N 0180557.0E
SA411	594053.8N 0182544.0E
SA412	594013.8N 0180152.4E
SA413	594312.9N 0180402.4E
SA415	594602.9N 0180213.8E
SA416	594243.4N 0182440.4E
SA417	600139.8N 0180549.2E
SA418	594006.4N 0180054.0E
SA419	594525.7N 0175952.1E
SA420	595025.5N 0175519.2E
SA421	594027.0N 0175535.7E
SA422	594506.5N 0182602.8E
SA423	594415.2N 0175929.0E
SA424	594231.4N 0175538.0E
SA471	594409.6N 0182453.8E
SA472	594800.1N 0182034.2E
SA474	595324.4N 0175649.5E
SA475	595343.1N 0180025.9E
SA476	595246.9N 0180334.8E
SA477	595148.4N 0180809.7E
SA478	595037.7N 0181342.8E

WPT	Coordinates
SA479	594227.1N 0181521.8E
SA480	595015.2N 0181528.1E
SA481	594556.5N 0183529.4E
SA482	594246.5N 0184959.9E
SA483	595904.6N 0180544.5E
SA484	600853.4N 0181533.1E
SA485	601507.8N 0182150.7E
SA488	595022.7N 0182437.9E
SA489	600120.8N 0182409.8E
SA490	594807.4N 0181513.7E
SA491	594835.0N 0175328.2E
SA492	594247.2N 0182217.3E
SA493	594139.7N 0183723.2E
SA494	594000.6N 0185850.0E
SA495	594114.4N 0182545.5E
SA496	600919.4N 0182349.1E
SA499	594035.9N 0181521.9E
SA500	594826.6N 0181814.7E
SA501	594831.8N 0175609.8E
SA502	594747.7N 0180855.8E
SA503	594508.0N 0181148.7E
SA504	594101.6N 0180810.9E
SA508	593913.4N 0175738.4E
SA509	594100.5N 0183154.8E
SA515	594005.0N 0175527.7E
SA517	594017.8N 0175532.0E
SA530	594609.1N 0180010.0E
SA531	594710.2N 0175802.2E
SA532	594135.8N 0181243.5E
SA539	600059.7N 0182211.1E
SA540	594452.2N 0182052.3E
SA541	600505.1N 0182149.1E
SA542	594507.9N 0175631.9E
SA543	594332.3N 0175643.0E
SA551	593659.4N 0175651.7E
SA552	593730.8N 0180913.6E

WPT	Coordinates
SA554	593653.1N 0180822.8E
SA557	593555.0N 0175831.6E
SA560	593650.9N 0175646.5E
SA561	593347.7N 0180045.9E
SA564	593428.5N 0175518.4E
SA566	592859.8N 0175938.9E
SA567	592812.2N 0175927.8E
SA568	593717.1N 0175656.2E
SA569	593457.6N 0180012.0E
SA570	593616.0N 0184142.3E
SA571	593302.7N 0180137.6E
SA572	593749.9N 0175743.7E
SA575	593355.5N 0180613.5E
SA602	593724.8N 0181412.2E
SA604	593033.3N 0180809.3E
SA605	592725.2N 0175846.7E
SA611	593608.1N 0182413.6E
SA614	593034.1N 0181213.8E
SA618	593404.0N 0182807.1E
SA619	593621.7N 0184311.4E
SA622	592545.2N 0181714.6E
SA623	591811.9N 0181212.5E
SA630	590551.6N 0180907.3E
SA638	593519.8N 0175613.7E
SA651	592808.4N 0180030.7E
SA652	593050.5N 0175934.2E
SA653	593242.7N 0175744.1E
SA654	593011.5N 0175224.6E
SA655	593446.8N 0180207.2E
SA702	593325.5N 0173503.1E
SA703	593008.4N 0174656.5E
SA704	593514.7N 0174902.6E
SA705	593725.2N 0175429.9E
SA706	593401.6N 0174421.6E
SA708	591637.6N 0172713.1E
SA709	593236.2N 0174728.8E
SA710	593509.1N 0173943.8E
SA716	593302.3N 0175118.7E
SA717	593014.1N 0174419.4E

WPT	Coordinates
SA718	591510.4N 0172725.7E
SA719	591930.3N 0172536.3E
SA722	593405.0N 0174029.0E
SA723	593651.7N 0173301.0E
SA724	593122.1N 0173347.6E
SA726	592825.8N 0172812.6E
SA727	593013.2N 0174059.8E
SA728	592427.7N 0173547.0E
SA729	591559.4N 0172718.6E
SA730	593823.6N 0174729.7E
SA731	593121.7N 0173825.6E
SA732	593045.9N 0174429.4E
SA733	593346.9N 0175311.2E
SA734	593427.2N 0174554.2E
SA737	593603.6N 0174820.3E
SA739	593323.8N 0175423.8E
SA740	593117.6N 0175048.3E
SA744	593410.9N 0174413.5E
SA745	592949.1N 0174251.8E
SA747	593742.0N 0174207.0E
SA750	592621.9N 0175031.9E
SA801	593001.5N 0175150.3E
SA802	592807.8N 0175109.6E
SA808	592752.3N 0173351.6E
SA810	593614.9N 0171904.3E
SA811	591935.4N 0174807.1E
SA815	593216.5N 0172455.2E
SA816	592800.7N 0174254.8E
SA817	590839.4N 0174954.5E
SA818	590042.2N 0175111.8E
SA820	594726.2N 0171035.3E
SA821	595023.1N 0171521.7E
SA822	593552.8N 0174820.3E
SA850	594116.6N 0174644.8E
SA851	594003.7N 0173907.6E
SA854	594147.2N 0171441.3E
SA855	594845.8N 0174235.8E
SA857	594138.0N 0175137.8E
SA860	594845.8N 0175039.5E

WPT	Coordinates
SA861	593930.7N 0173913.5E
SA862	594622.0N 0175431.1E
SA864	594650.5N 0174055.8E
SA865	595143.5N 0173946.7E
SA871	593920.8N 0175455.5E
SA872	594635.3N 0174300.1E
SA873	594722.1N 0174819.3E
SA874	595246.6N 0175151.0E
SA875	595006.5N 0175329.3E
SA876	594408.5N 0175010.4E
SA908	595233.3N 0174351.9E
SA909	595105.2N 0172214.7E
SA910	594958.8N 0170632.6E
SA911	594852.8N 0173738.4E
SA912	594238.0N 0170936.5E
SA913	594913.5N 0171635.7E
SA914	594900.2N 0173029.3E
SA915	594845.5N 0174422.7E
ABENI	591416.3N 0170519.6E
AGILI	594935.1N 0180125.3E
ALJAC	593221.1N 0172813.8E
AXWAL	592333.8N 0180108.0E
BABAP	592520.2N 0184227.5E
BALVI	594445N 0173525E
DIGLI	590657.9N 0171822.2E
EKDAS	594218.7N 0181827.3E
ELFEC	595659.0N 0175331.5E
ELTOK	594928.0N 0165923.7E
GALNU	585915.6N 0172942.6E
HAPZI	593644.3N 0173458.2E
INLIP	592255.8N 0174918.5E
INLUX	593022.7N 0173551.7E
KOGAV	600452.0N 0171346.6E
LUMAX	601903.8N 0180030.8E
MENGA	592551.4N 0183640.5E
NEKLA	590000.0N 0191549.1E
NILUG	584857N 0175305E
NOSLI	590422.0N 0171529.2E

WPT	Coordinates
OXINU	595006.6N 0175906.6E
PAZIX	593649.9N 0173526.4E
PETEV	591225.8N 0170043.5E
RESNA	602201.0N 0180129.4E
REYMY	593603.3N 0181726.0E
ROKNI	593503.9N 0164455.2E
TALEK	600254.7N 0171818.5E
TOMBU	591346.0N 0193404.2E
TOVRI	594459.3N 0184600.6E
XILAN	593933.5N 0190433.8E

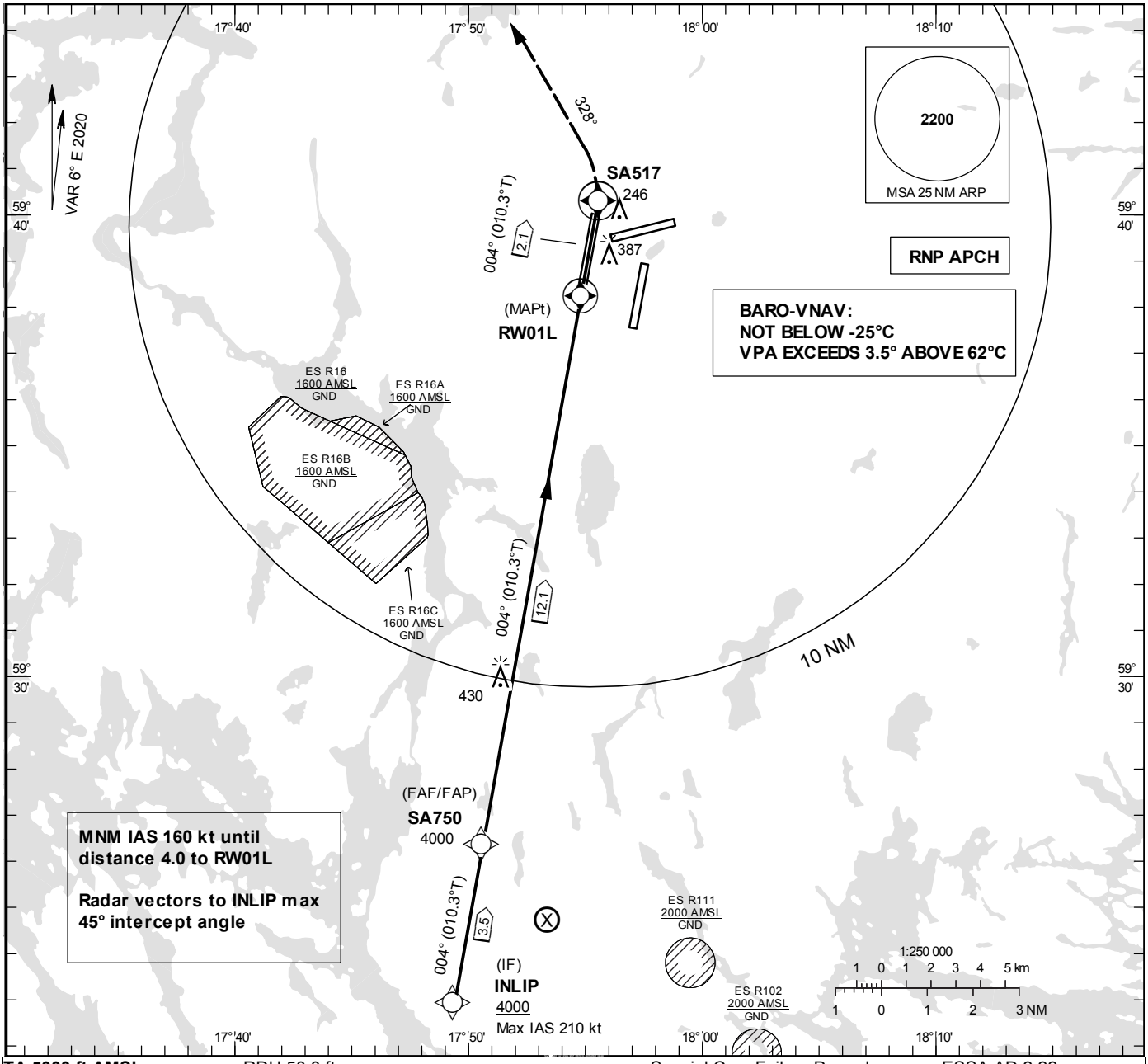
INSTRUMENT APPROACH CHART – ICAO

THR ELEV 98.6 ft, AD ELEV 138 ft
OCH are related to THR.
BRG are MAG (True).
ALT, HGT and ELEV in ft.

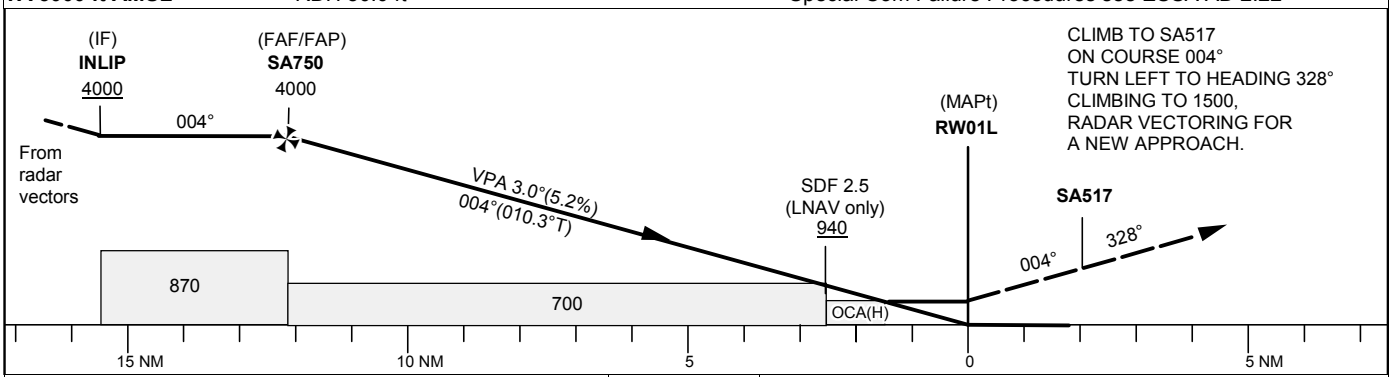
ARLANDA TOWER	**128.730/ 118.505/125.130**
ARLANDA ATIS ARR	**119.005**
STOCKHOLM APPROACH	**123.755**

RNP z RWY 01L

EGNOS Ch 47360 E 01A



TA 5000 ft AMSL RDH 50.0 ft Special Com Failure Procedures see ESSA AD 2.22



OCA (H)					Final approach	Distance FAF-MAPt 12.1 NM										
Cat of ACFT	A	B	C	D	Dist to RW01L	12	11	10	9	8	7	6	5	4	3	2
LPV	302 (204)	312 (214)	322 (224)	332 (234)	ALT	3970	3651	3333	3014	2696	2378	2059	1741	1422	1104	785
LNAV/VNAV	394 (296)	404 (306)	425 (327)	451 (353)	GS	kt	80	100	120	140	160	180				
LNAV	560 (470)				Rate of descent	ft/min	425	530	635	745	850	955				

RNP z RWY 01L via INLIP

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	INLIP	-	-	-	-	+4000	-210	-	-	RNP APCH
TF	SA750	-	004° (010.3°)	3.5	-	@4000	-	-	-	RNP APCH
TF	RW01L	Y	004° (010.3°)	12.1	-	@149	-	-3.00/50	-	RNP APCH
CF	SA517	Y	004° (010.3°)	2.1	-	-	-	-	ARL	RNP APCH
VM	-	-	328°	-	L	@1500	-	-	-	RNP APCH

FAS Data Block RNP z RWY 01L

Input data

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	ESSA
Runway	01
Runway Letter	3 (Left)
Approach Performance Designator	0
Route Indicator	Z
Reference Path Data Selector	0
Reference Path Identifier	E01A
LTP/FTP Latitude	593814.1100N
LTP/FTP Longitude	0175447.6000E
LTP/FTP Ellipsoidal Height (metres)	53.2
FPAP Latitude	593959.0400N
Delta FPAP Latitude (seconds)	104.9300
FPAP Longitude	0175525.5600E
Delta FPAP Longitude (seconds)	37.9600
Threshold Crossing Height	50.0
TCH Units Selector	0 (feet)
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	35.0

Output data

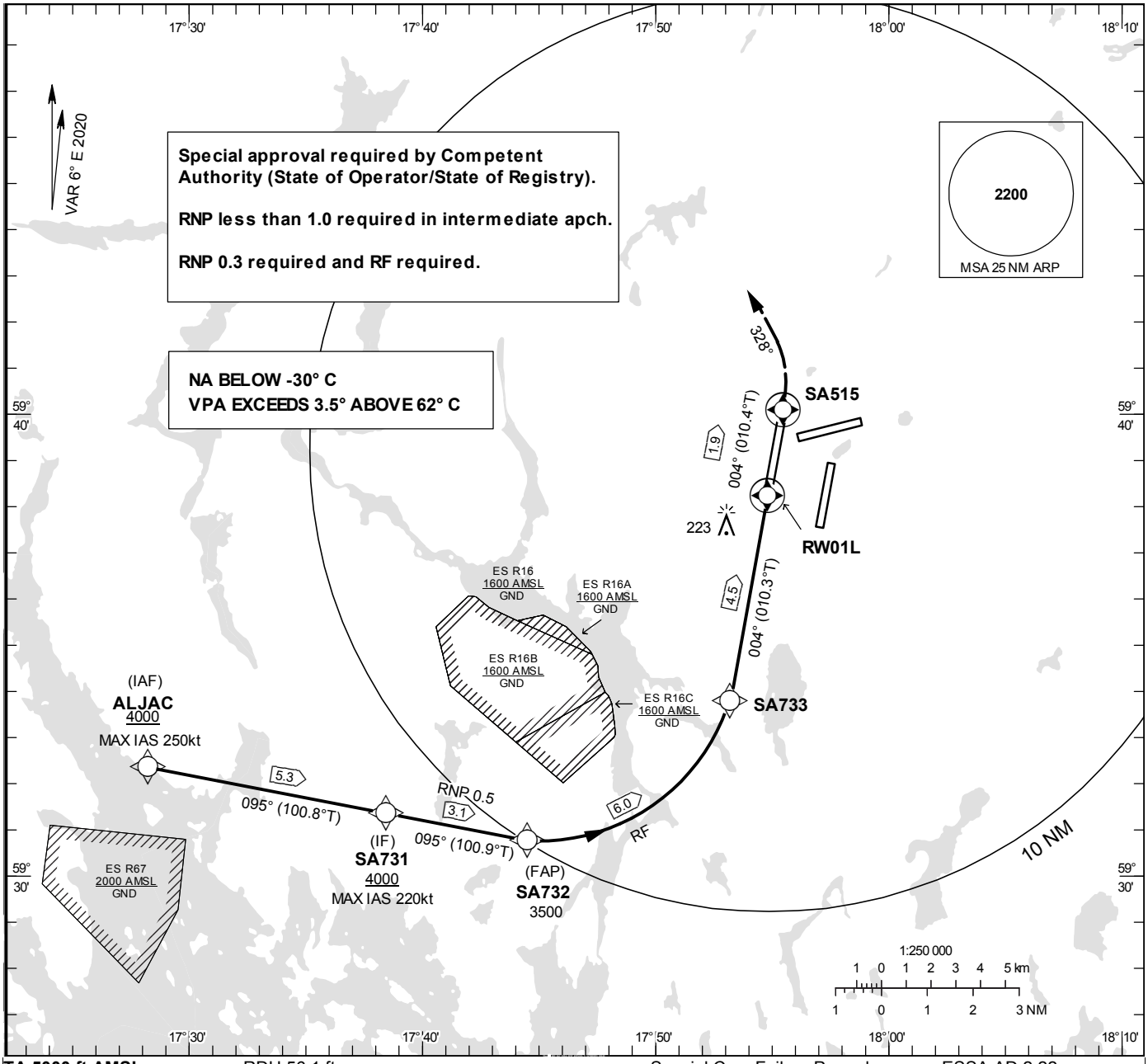
Data Block	10 01 13 13 05 C1 D0 00 01 31 30 05 BC F1 97 19 60 01 B0 07 14 16 C4 33 03 90 28 01 F4 01 2C 01 64 00 C8 AF 03 BE 7A 7F
Calculated CRC Value	03BE7A7F
Supplied CRC Value	03BE7A7F
Comparison Result	OK

INSTRUMENT APPROACH CHART – ICAO

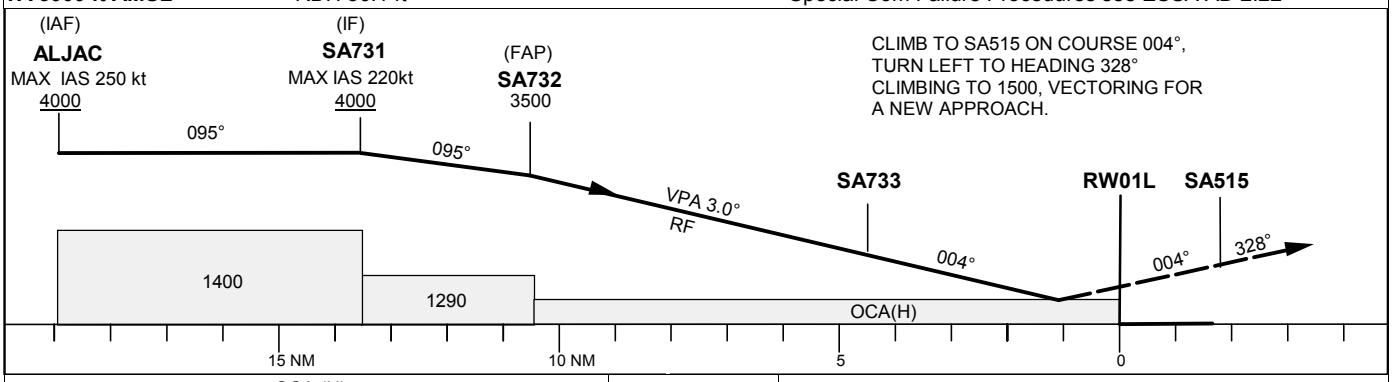
THR ELEV 98.6 ft, AD ELEV 138 ft
OCH are related to THR.
BRG are MAG (True).
ALT, HGT and ELEV in ft.

ARLANDA TOWER	**128.730/ 118.505/125.130**
ARLANDA ATIS ARR	**119.005**
STOCKHOLM APPROACH	**123.755**

RNP y RWY 01L (AR)



TA 5000 ft AMSL RDH 56.1 ft Special Com Failure Procedures see ESSA AD 2.22



	OCA (H)												
Cat of ACFT	A	B	C	D	Dist to RW01L	10	9	8	7	6	5	4	3	2
RNP 0.3	510 (412)				ALT	3339	3021	2702	2384	2065	1747	1428	1110	792

Prescribed Coding/Description RNP y RWY 01L (AR)

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/ RDH (°/ft)	Rec Nav	ARC Radius (NM)	ARC Center	Nav Spec
IF	ALJAC	-	-	-	-	+4000	-250	-	-	-	-	RNP 1.0
TF	SA731	-	095° (100.8°)	5.3	-	+4000	-220	-	-	-	-	RNP 1.0
TF	SA732	-	095° (100.9°)	3.1	-	@3500	-	-	-	-	-	RNP 0.5
RF	SA733	-	-	6.0	L	-	-	-3.00	-	3.766	SA734	RNP 0.3
TF	RW01L	Y	004° (010.3°)	4.5	-	@155	-	-3.00/56.1	-	-	-	RNP 0.3
CF	SA515	Y	004° (010.4°)	1.9	-	-	-	-	ARL	-	-	RNP APCH
VM	-	-	328°	-	L	@1500	-	-	-	-	-	RNP APCH

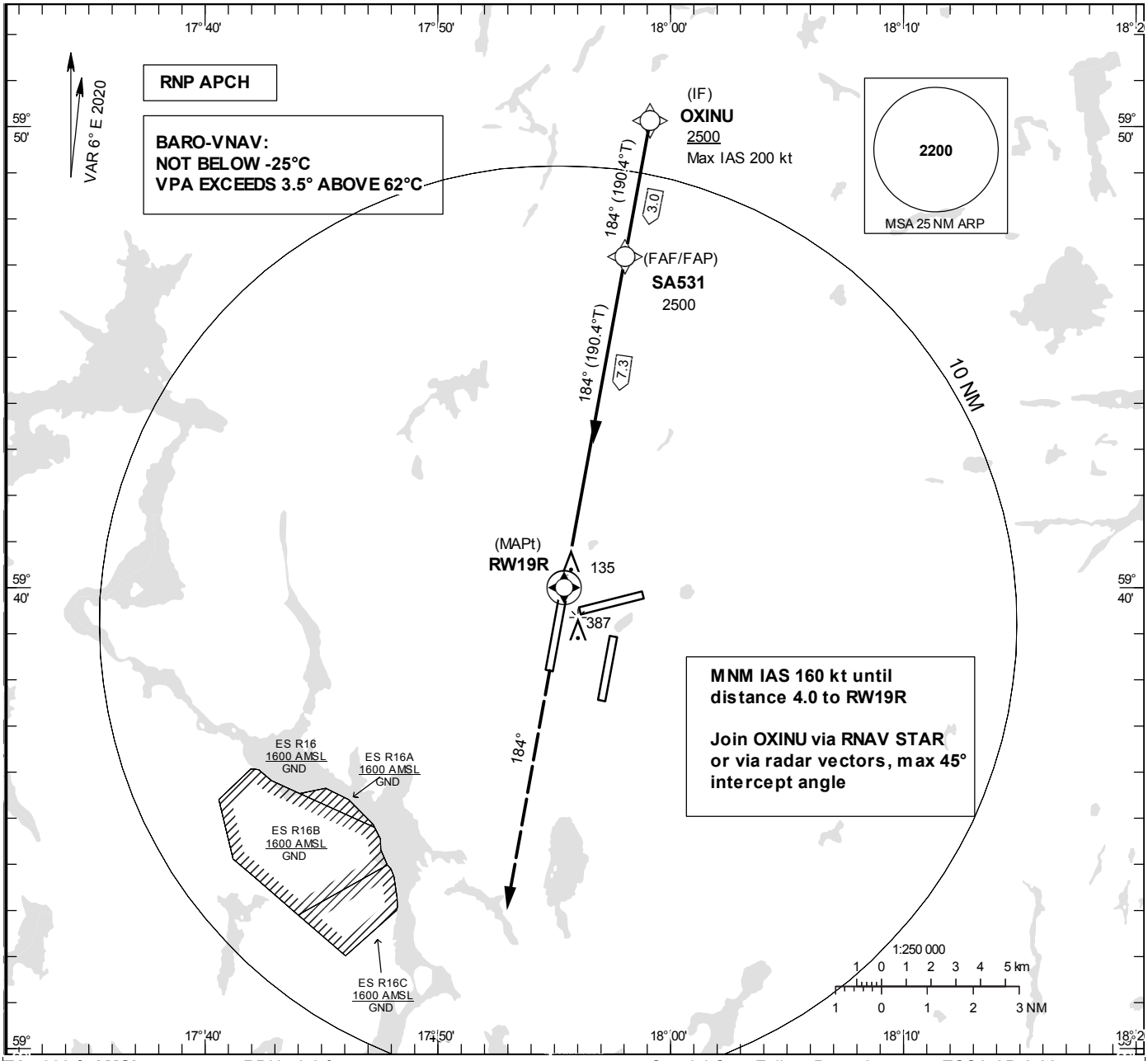
INSTRUMENT APPROACH CHART – ICAO

THR ELEV 118.2 ft, AD ELEV 138 ft
OCH are related to THR.
BRG are MAG (True).
ALT, HGT and ELEV in ft.

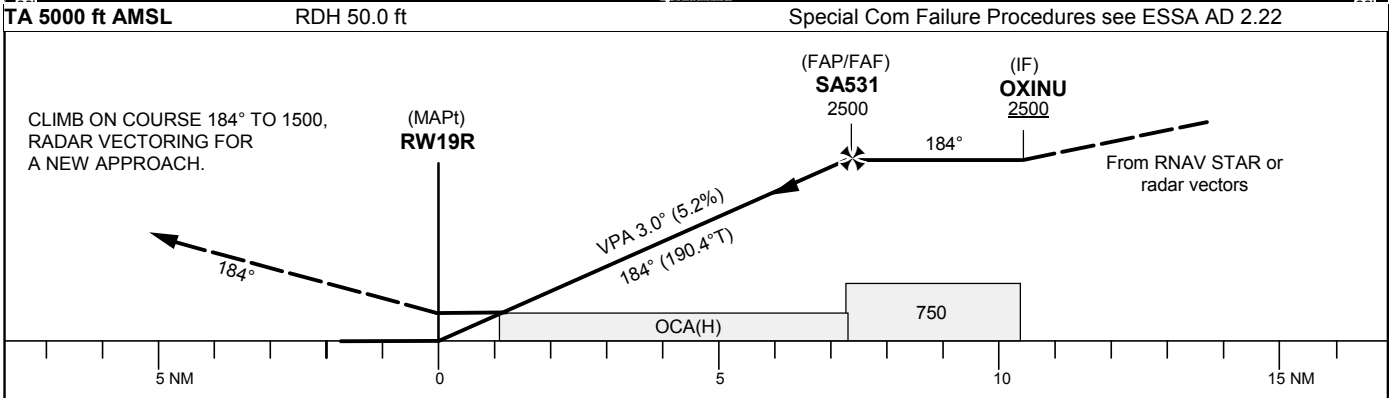
ARLANDA TOWER	**128.730/ 118.505/125.130**
ARLANDA ATIS ARR	**119.005**
STOCKHOLM APPROACH	**123.755**

RNP z RWY 19R

EGNOS Ch 81218 E 19A



TA 5000 ft AMSL RDH 50.0 ft Special Com Failure Procedures see ESSA AD 2.22



OCA (H)					Final approach	Distance FAF-MAPt 7.3 NM						
Cat of ACFT	A	B	C	D	Dist to RW19R	2	3	4	5	6	7	
LPV	277 (159)	284 (166)	294 (176)	303 (185)	ALT	805	1124	1442	1760	2079	2397	
LNAV/VNAV	387 (269)	397 (279)	418 (300)	444 (326)	GS	kt	80	100	120	140	160	180
LNAV	540 (430)				Rate of descent	ft/min	425	530	635	745	850	955

RNP z RWY 19R via OXINU

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	OXINU	-	-	-	-	+2500	-200	-	-	RNP APCH
TF	SA531	-	184° (190.4°)	3.0	-	@2500	-	-	-	RNP APCH
TF	RW19R	Y	184° (190.4°)	7.3	-	@168	-	-3.00/50	-	RNP APCH
CA	-	-	184° (190.4°)	-	-	+1500	-	-	-	RNP APCH
VM	-	-	184°	-	-	@1500	-	-	-	RNP APCH

FAS Data Block

RNP z RWY 19R

Input data

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	ESSA
Runway	19
Runway Letter	1 (Right)
Approach Performance Designator	0
Route Indicator	Z
Reference Path Data Selector	0
Reference Path Identifier	E19A
LTP/FTP Latitude	593959.0400N
LTP/FTP Longitude	0175525.5600E
LTP/FTP Ellipsoidal Height (metres)	59.1
FPAP Latitude	593814.1100N
Delta FPAP Latitude (seconds)	-104.9300
FPAP Longitude	0175447.6000E
Delta FPAP Longitude (seconds)	-37.9600
Threshold Crossing Height	50.0
TCH Units Selector	0 (feet)
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	35.0

Output data

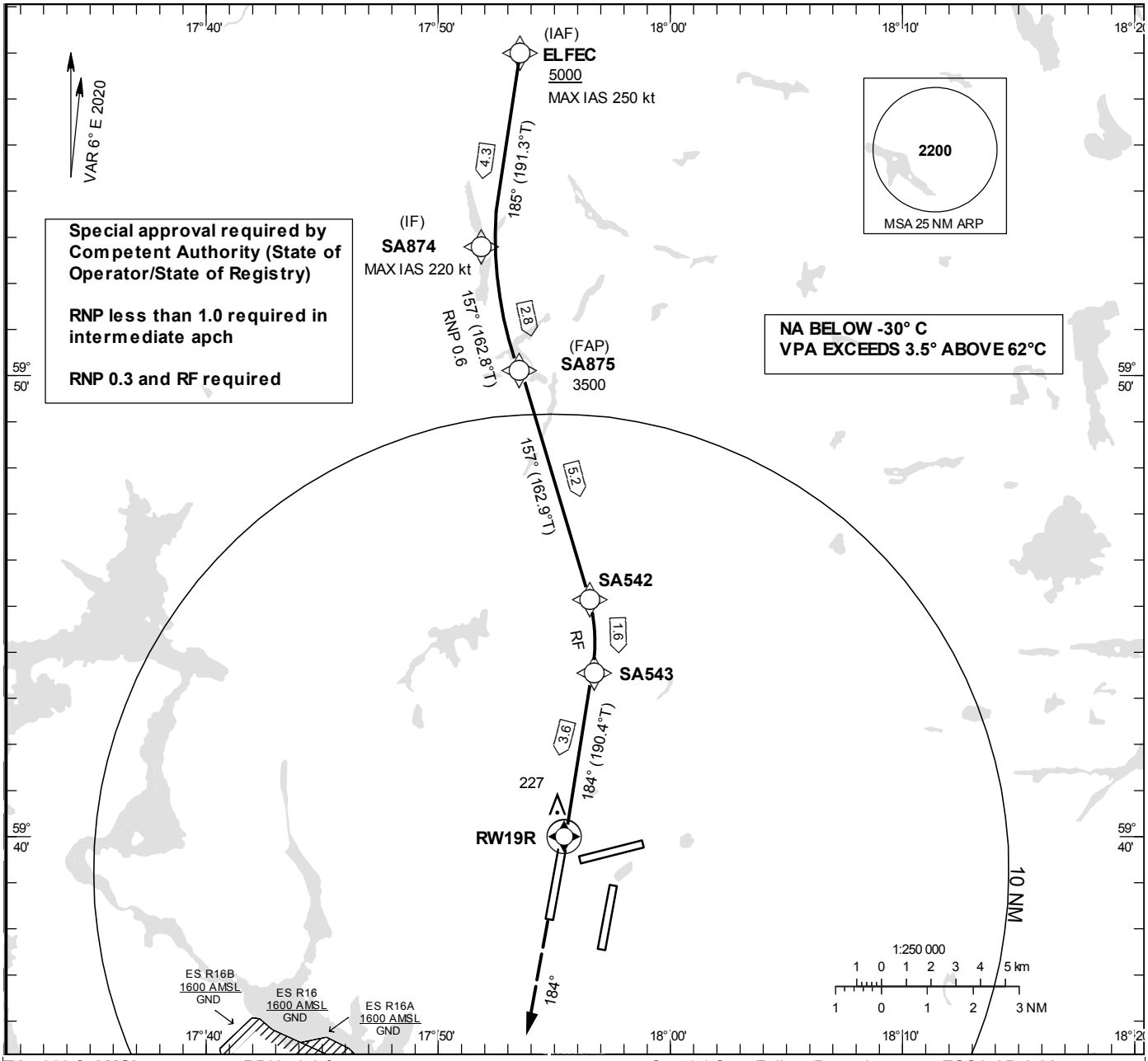
Data Block	10 01 13 13 05 53 D0 00 01 39 31 05 80 25 9B 19 F0 29 B1 07 4F 16 3C CC FC 70 D7 FE F4 01 2C 01 64 00 C8 AF 88 38 FE 34
Calculated CRC Value	8838FE34
Supplied CRC Value	8838FE34
Comparison Result	OK

INSTRUMENT APPROACH CHART – ICAO

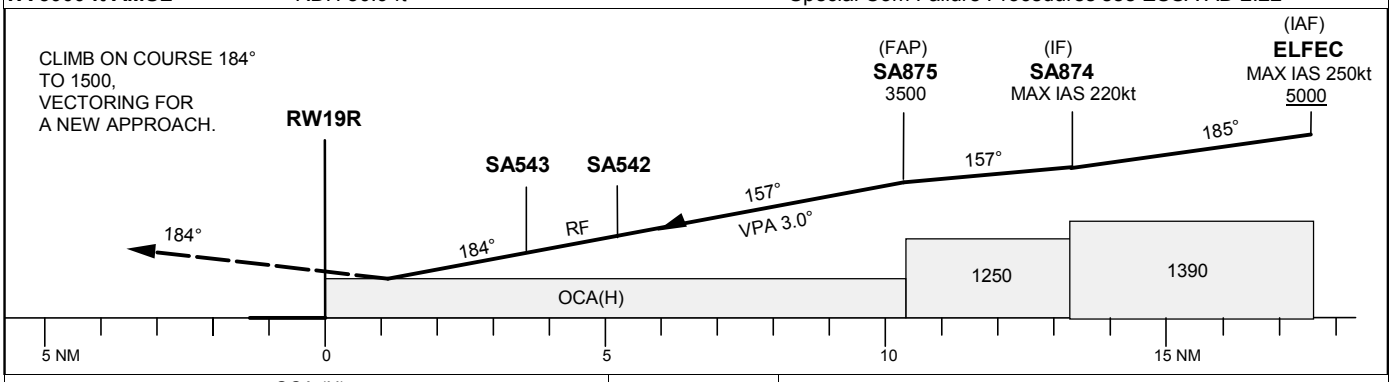
THR ELEV 118.2 ft, AD ELEV 138 ft
OCH are related to THR.
BRG are MAG (True).
ALT, HGT and ELEV in ft.

ARLANDA TOWER	**128.730/ 118.505/125.130**
ARLANDA ATIS ARR	**119.005**
STOCKHOLM APPROACH	**123.755**

RNP y RWY 19R (AR)



TA 5000 ft AMSL RDH 50.9 ft Special Com Failure Procedures see ESSA AD 2.22



OCA (H)															
Cat of ACFT	A	B	C	D	Dist to RW19R	1	2	3	4	5	6	7	8	9	10
RNP 0.3	480 (362)				ALT	488	806	1124	1443	1761	2080	2398	2717	3035	3353

Prescribed Coding/Description RNP y RWY 19R (AR)

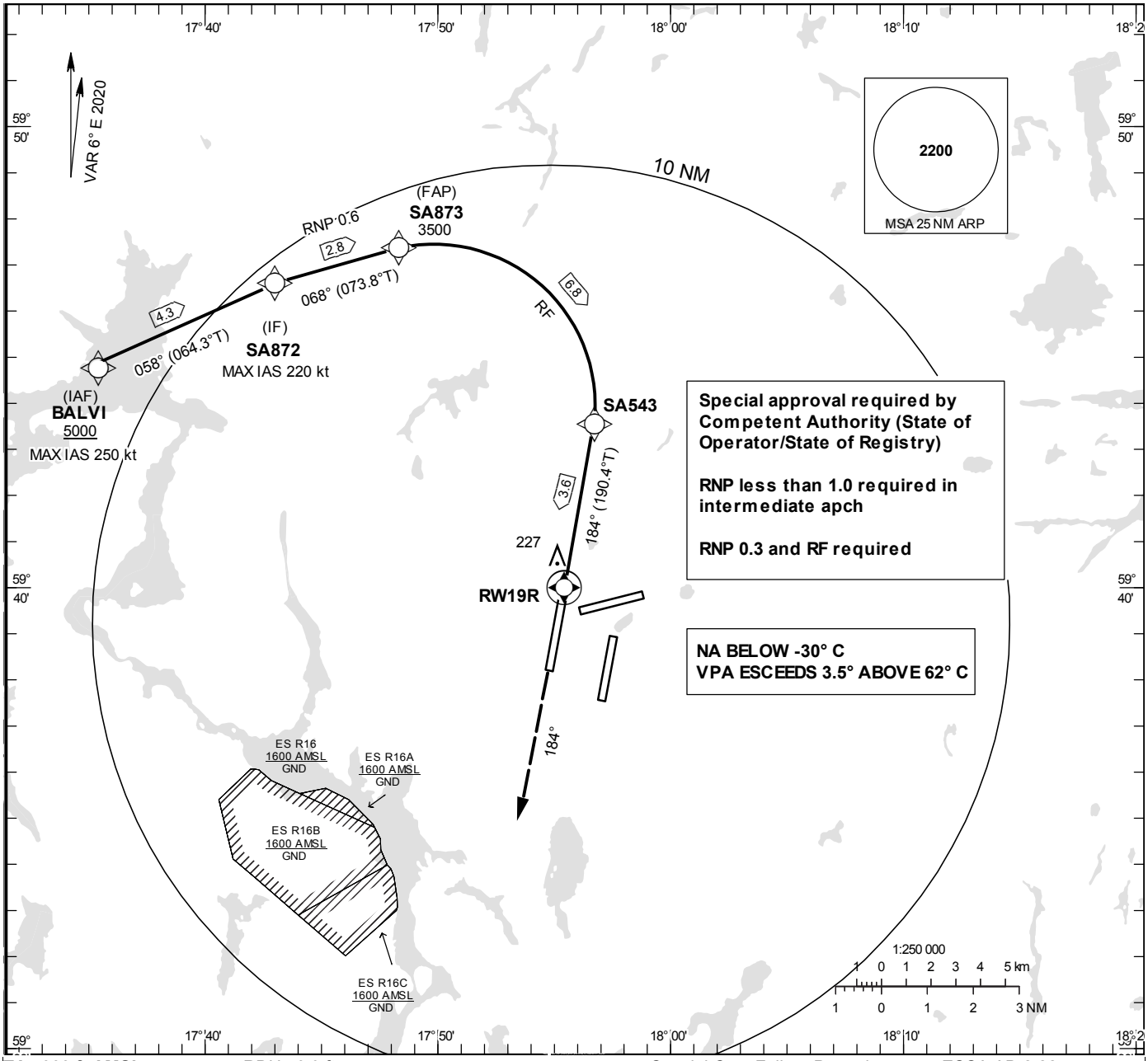
Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/ RDH (°/ft)	ARC Radius (NM)	ARC Center	Nav Spec
IF	ELFEC	-	-	-	-	+5000	-250	-	-	-	RNP 1.0
TF	SA874	-	185° (191.3°)	4.3	-	-	-220	-	-	-	RNP 1.0
TF	SA875	-	157° (162.8°)	2.8	-	@3500	-	-	-	-	RNP 0.6
TF	SA542	-	157° (162.9°)	5.2	-	-	-	-3.00	-	-	RNP 0.3
RF	SA543	-	-	1.6	R	-	-	-3.00	3.3665	SA876	RNP 0.3
TF	RW19R	Y	184° (190.4°)	3.6	-	@169	-	-3.00/50.9	-	-	RNP 0.3
CA	-	-	184° (190.4°)	-	-	+1500	-	-	-	-	RNP APCH
VM	-	-	184°	-	-	@1500	-	-	-	-	RNP APCH

INSTRUMENT APPROACH CHART – ICAO

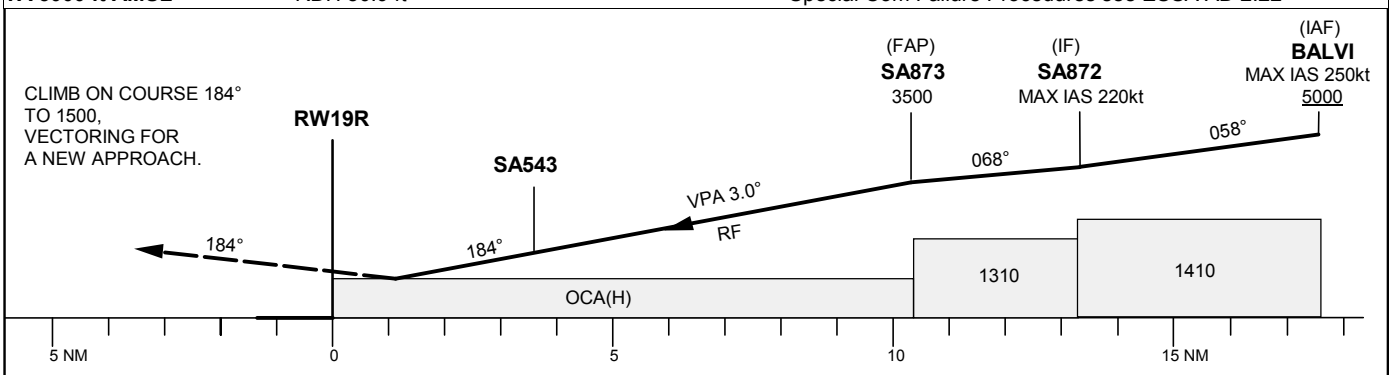
THR ELEV 118.2 ft, AD ELEV 138 ft
OCH are related to THR.
BRG are MAG (True).
ALT, HGT and ELEV in ft.

ARLANDA TOWER	**128.730/ 118.505/125.130**
ARLANDA ATIS ARR	**119.005**
STOCKHOLM APPROACH	**123.755**

RNP x RWY 19R (AR)



TA 5000 ft AMSL RDH 50.9 ft Special Com Failure Procedures see ESSA AD 2.22



OCA (H)															
Cat of ACFT	A	B	C	D	Dist to RW19R	1	2	3	4	5	6	7	8	9	10
RNP 0.3	480 (362)				ALT	488	806	1124	1443	1761	2080	2398	2717	3035	3353

Prescribed Coding/Description RNP x RWY 19R (AR)

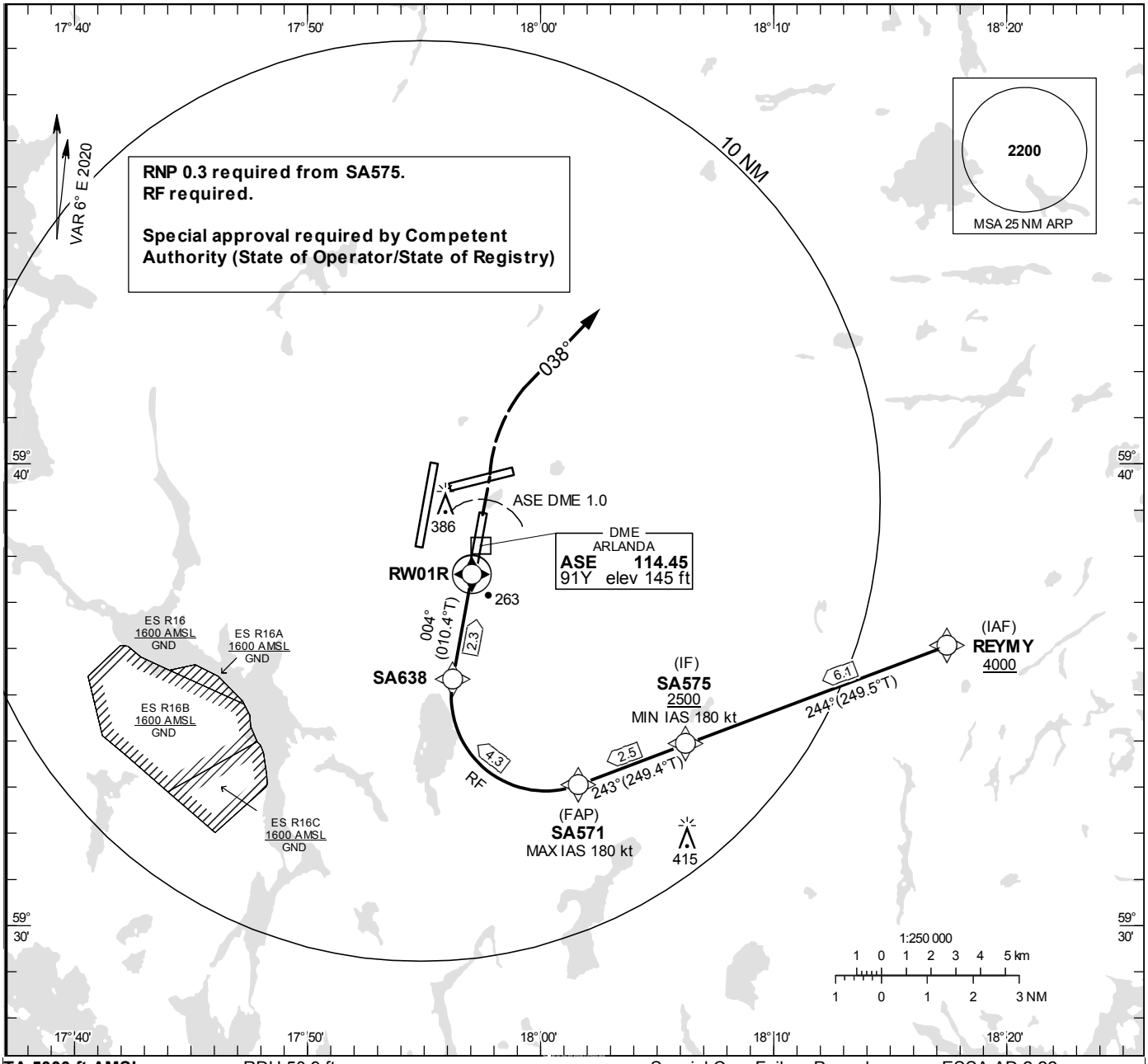
Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Rest Alts (ft AMSL)	Speed Limits (kt)	VPA/ RDH (°/ft)	ARC Radius (NM)	ARC Center	Nav Spec
IF	BALVI	-	-	-	-	+5000	-250	-	-	-	RNP 1.0
TF	SA872	-	058° (064.3°)	4.3	-	-	-220	-	-	-	RNP 1.0
TF	SA873	-	068° (073.8°)	2.8	-	@3500	-	-	-	-	RNP 0.6
RF	SA543	-	-	6.8	R	-	-	-3.00	3.3665	SA876	RNP 0.3
TF	RW19R	Y	184° (190.4°)	3.6		@169	-	-3.00/50.9	-	-	RNP 0.3
CA	-	-	184° (190.4°)	-	-	+1500	-	-	-	-	RNP APCH
VM	-	-	184°	-	-	@1500	-	-	-	-	RNP APCH

INSTRUMENT APPROACH CHART – ICAO

THR ELEV 138.0 ft, AD ELEV 138 ft
OCH are related to THR.
BRG are MAG (True).
ALT, HGT and ELEV in ft.
NA BELOW -30° C

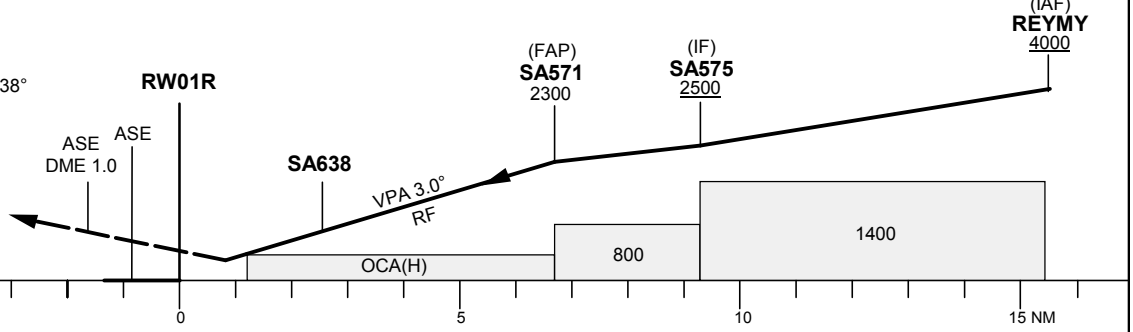
ARLANDA TOWER	**128.730/ 118.505/125.130**
ARLANDA ATIS ARR	**119.005**
STOCKHOLM APPROACH	**123.755**

RNP z RWY 01R (AR)



TA 5000 ft AMSL RDH 50.9 ft Special Com Failure Procedures see ESSA AD 2.22

CLIMB STRAIGHT AHEAD,
AT 600 OR ASE DME 1.0
(PAST ASE DME),
WHICHEVER IS LATEST,
TURN RIGHT TO TRACK 038°
CLIMBING TO 1500,
RADAR VECTORING FOR
A NEW APPROACH.



OCA (H)				
Cat of ACFT	A	B	C	D
RNP (0.3)	489 (351)	497 (359)	509 (371)	520 (382)

Prescibed Coding/Description RNP z RWY 01R (AR)

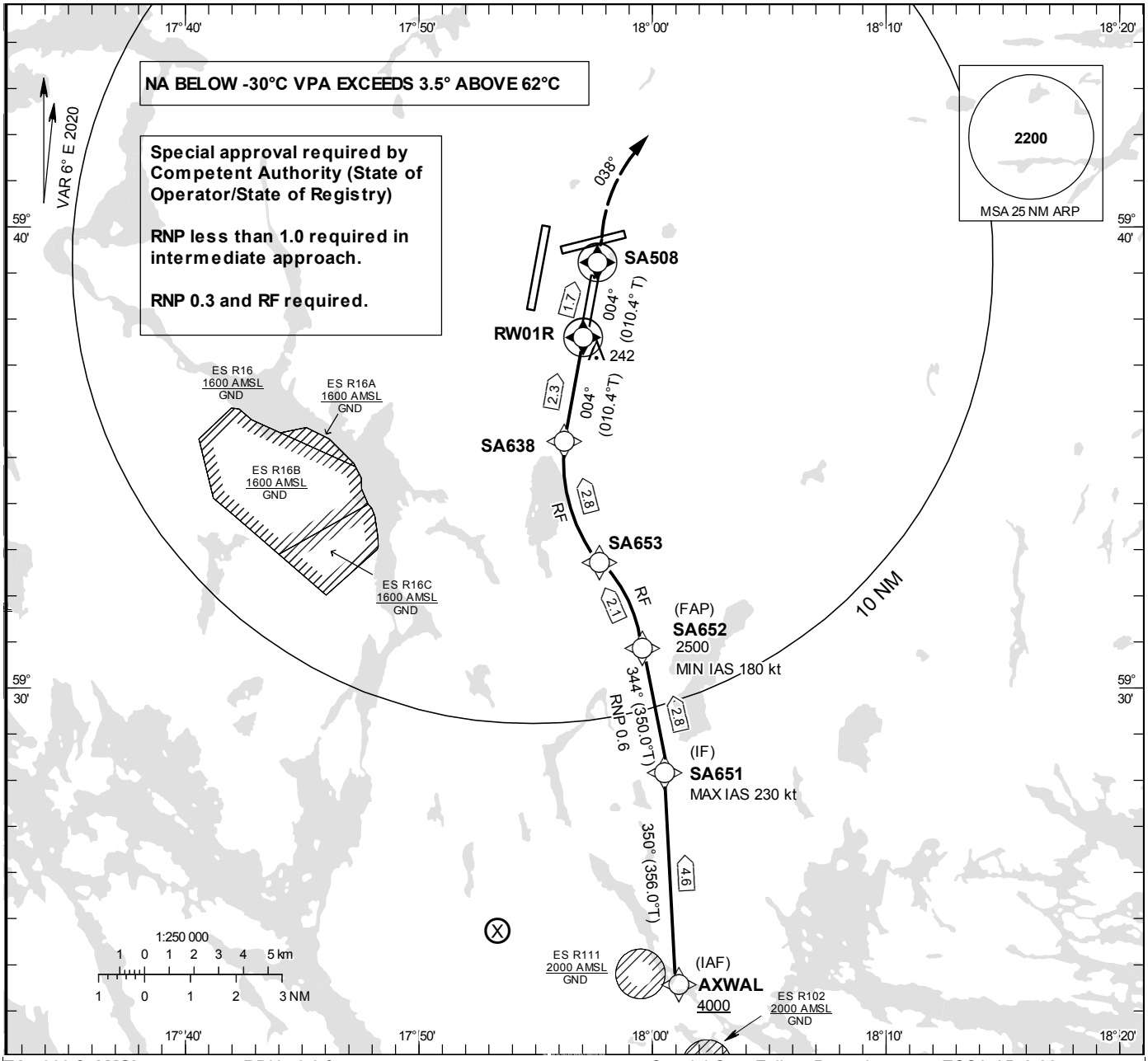
Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/ RDH	ARC Radius (NM)	ARC Center	Nav Spec
IF	REYMY	-	-	-	-	+4000	-	-	-	-	RNP 1.0
TF	SA575	-	244° (249.5°)	6.1	-	+2500	+180	-	-	-	RNP 1.0
TF	SA571	-	243° (249.4°)	2.5	-	2300	-180	-	-	-	RNP 0.3
RF	SA638	-	-	4.3	R	-	-	-3.0	2.0529	SA569	RNP 0.3
TF	RW01R	Y	004° (010.4°)	2.3	-	188	-	-3.0	-	-	RNP 0.3

INSTRUMENT APPROACH CHART – ICAO

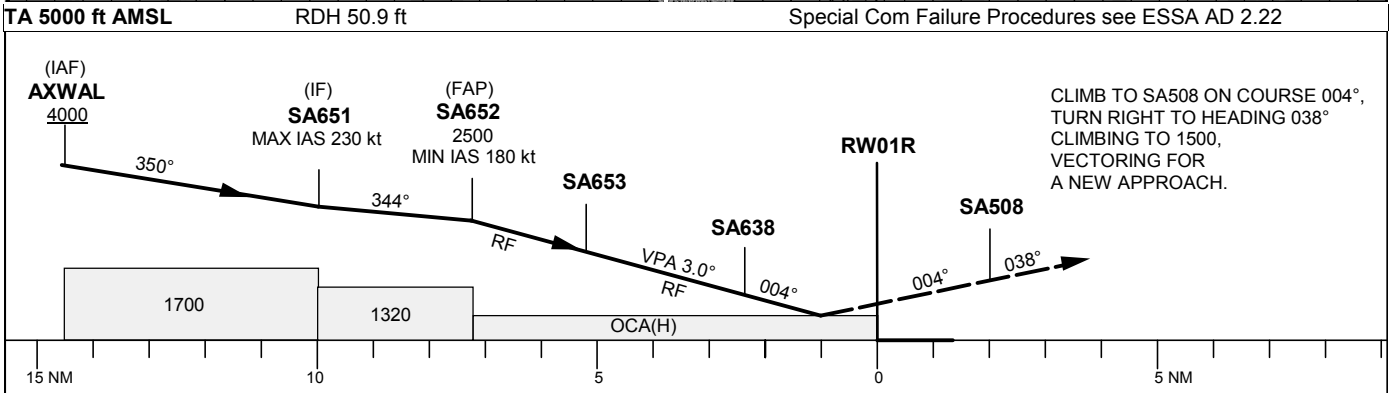
THR ELEV 138.0 ft, AD ELEV 138 ft
OCH are related to THR.
BRG are MAG (True).
ALT, HGT and ELEV in ft.

ARLANDA TOWER	**128.730/ 118.505/125.130**
ARLANDA ATIS ARR	**119.005**
STOCKHOLM APPROACH	**123.755**

RNP y RWY 01R (AR)



TA 5000 ft AMSL RDH 50.9 ft Special Com Failure Procedures see ESSA AD 2.22



CLIMB TO SA508 ON COURSE 004°,
TURN RIGHT TO HEADING 038°
CLIMBING TO 1500,
VECTORING FOR
A NEW APPROACH.

OCA (H)				
Cat of ACFT	A	B	C	D
RNP (0.3)	500 (362)			

Dist to RW01R	7	6	5	4	3	2	1
ALT	2418	2100	1781	1463	1144	826	507

Prescibed Coding/Description RNP y RWY 01R (AR)

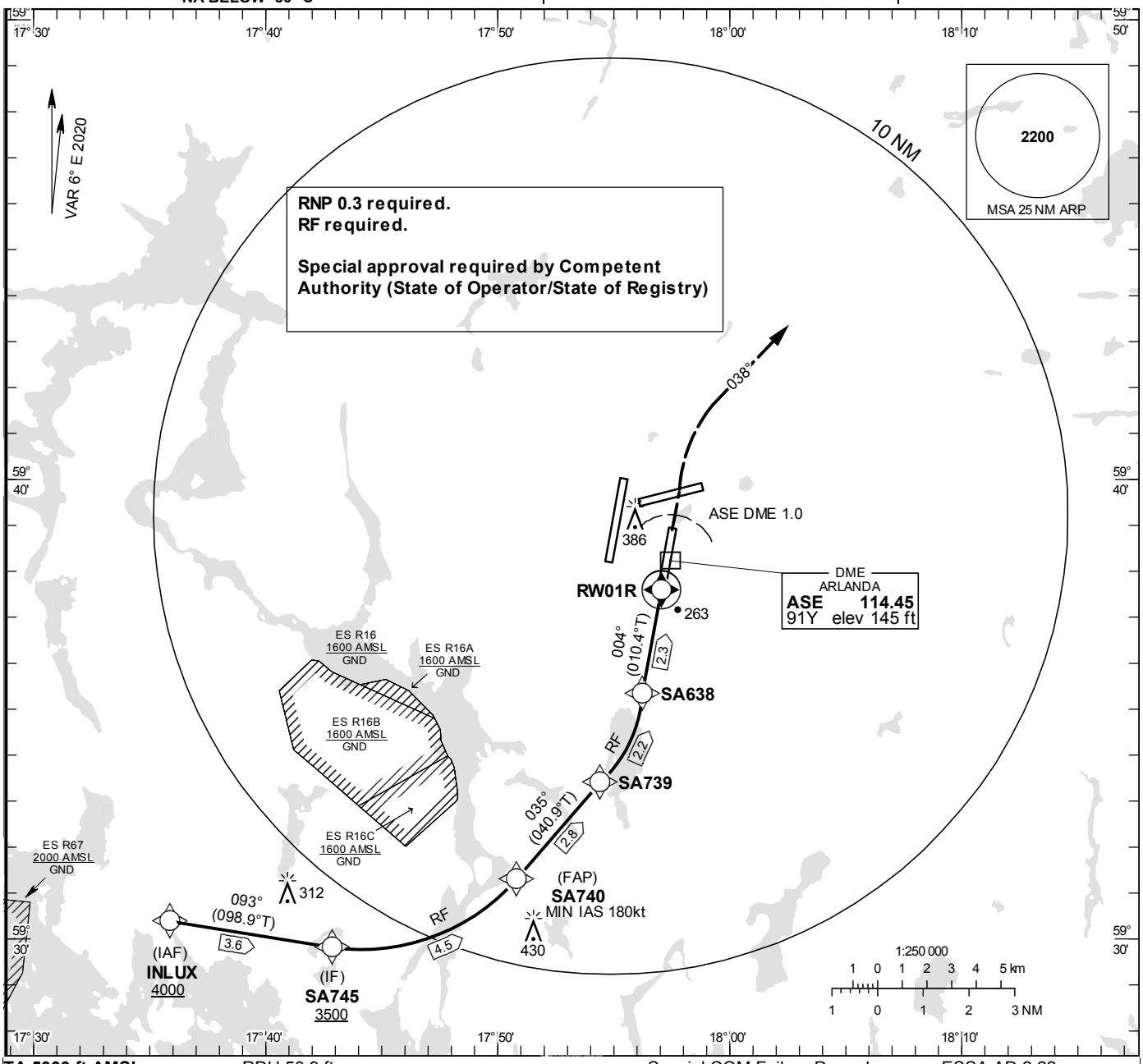
Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/ RDH	Rec Nav	ARC Radius (NM)	ARC Center	Nav Spec
IF	AXWAL	-	-	-	-	+4000	-250	-	-	-	-	RNP 1.0
TF	SA651	-	350°(356.0°)	4.6	-	-	-230	-	-	-	-	RNP 1.0
TF	SA652	-	344°(350.0°)	2.8	-	@2500	+180	-	-	-	-	RNP 0.6
RF	SA653	-	-	2.1	L	-	-	-3.0	-	3.705	SA654	RNP 0.3
RF	SA638	-	-	2.8	R	-	-	-3.0	-	3.046	SA655	RNP 0.3
TF	RW01R	Y	004° (010.4°)	2.3	-	@189	-	-3.0/50.9	-	-	-	RNP 0.3
CF	SA508	Y	004° (010.4°)	1.7	-	-	-	-	ARL	-	-	RNP APCH
VM	-	-	038°	-	R	@1500	-	-	-	-	-	RNP APCH

INSTRUMENT APPROACH CHART – ICAO

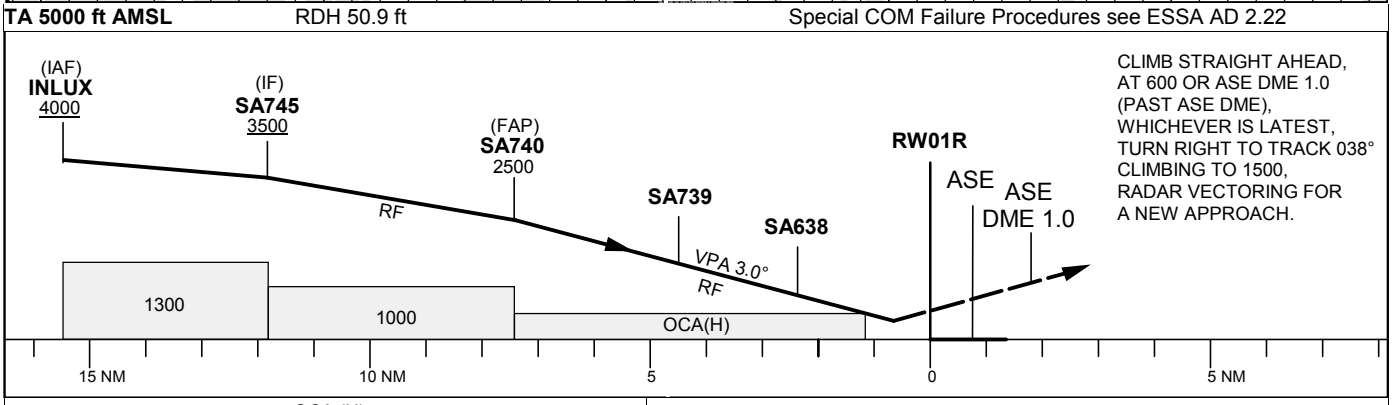
THR ELEV 138.0 ft, AD ELEV 138 ft
OCH are related to THR.
BRG are MAG (True).
ALT, HGT and ELEV in ft.
NA BELOW -30° C

ARLANDA TOWER	**128.730/ 118.505/125.130**
ARLANDA ATIS ARR	**119.005**
STOCKHOLM APPROACH	**123.755**

RNP x RWY 01R (AR)



TA 5000 ft AMSL RDH 50.9 ft Special COM Failure Procedures see ESSA AD 2.22



CLIMB STRAIGHT AHEAD, AT 600 OR ASE DME 1.0 (PAST ASE DME), WHICHEVER IS LATEST, TURN RIGHT TO TRACK 038° CLIMBING TO 1500, RADAR VECTORING FOR A NEW APPROACH.

OCA (H)				
Cat of ACFT	A	B	C	D
RNP (0.3)	489 (351)	497 (359)	509 (371)	520 (382)

Prescibed Coding/Description RNP x RWY 01R (AR)

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/ RDH	ARC Radius (NM)	ARC Center	Nav Spec
IF	INLUX	-	-	-	-	+4000	-	-	-	-	RNP 1.0
TF	SA745	-	093°(098.9°)	3.6	-	+3500	-	-	-	-	RNP 1.0
RF	SA740	-	-	4.5	L	2500	+180	-	4.4277	SA744	RNP 1.0
TF	SA739	-	035° (040.9°)	2.8	-	-	-	-3.0	-	-	RNP 0.3
RF	SA638	-	-	2.2	L	-	-	-3.0	4.0767	SA737	RNP 0.3
TF	RW01R	Y	004° (010.4°)	2.3	-	188	-	-3.0	-	-	RNP 0.3

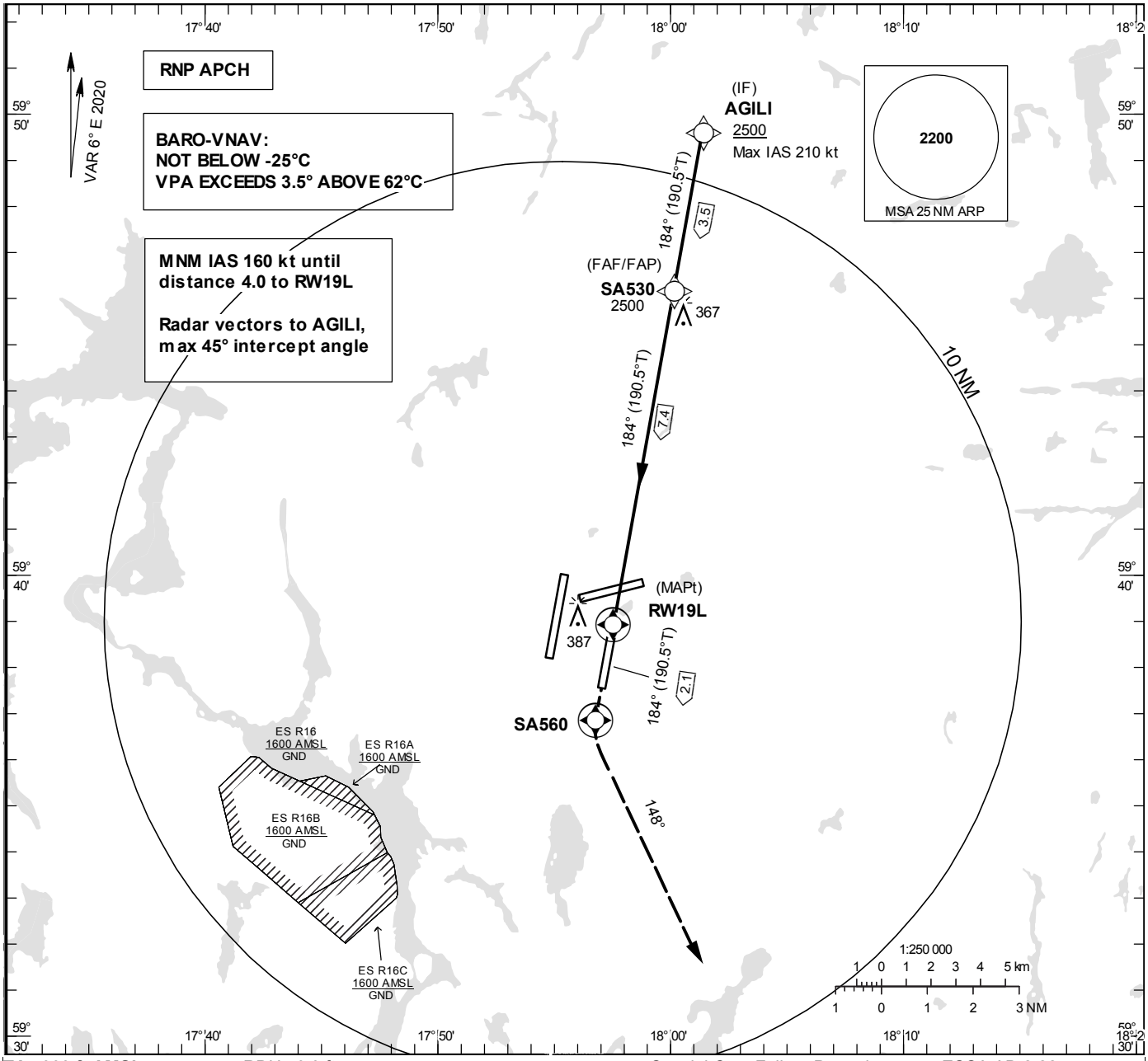
INSTRUMENT APPROACH CHART – ICAO

THR ELEV 98.9 ft, AD ELEV 138 ft
OCH are related to THR.
BRG are MAG (True).
ALT, HGT and ELEV in ft.

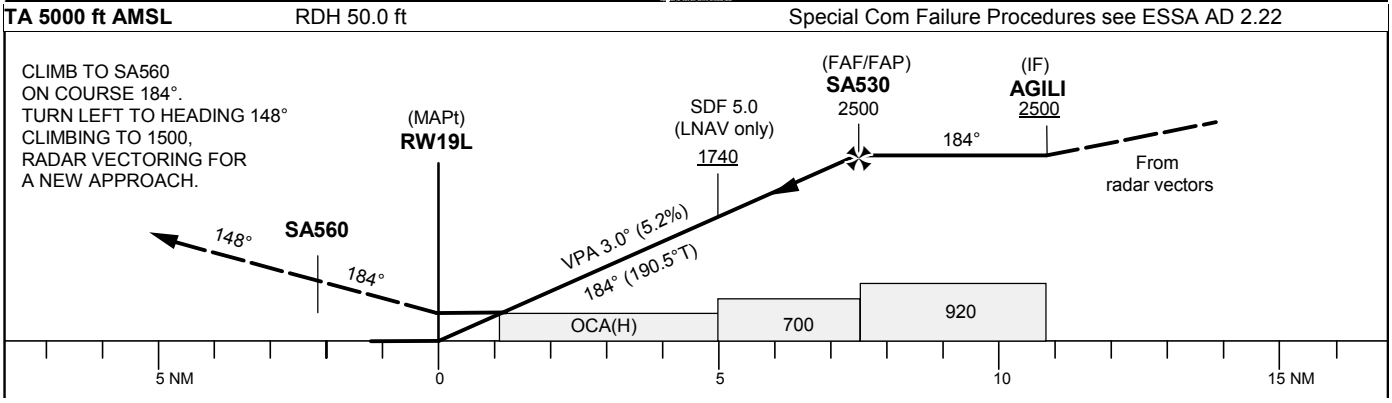
ARLANDA TOWER	**128.730/ 118.505/125.130**
ARLANDA ATIS ARR	**119.005**
STOCKHOLM APPROACH	**123.755**

RNP RWY 19L

(LNAV/VNAV, LNAV only)



TA 5000 ft AMSL RDH 50.0 ft Special Com Failure Procedures see ESSA AD 2.22



OCA (H)					Final approach	Distance FAF-MAPt 7.4 NM						
Cat of ACFT	A	B	C	D	Dist to RW19L	2	3	4	5	6	7	
LNAV/VNAV	463 (365)	468 (370)	473 (375)	479 (381)	ALT	786	1104	1423	1741	2060	2378	
LNAV	530 (440)				GS	kt	80	100	120	140	160	180
					Rate of descent	ft/min	425	530	635	745	850	955

RNP RWY 19L via AGILI

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	AGILI	-	-	-	-	+2500	-210	-	-	RNP APCH
TF	SA530	-	184° (190.5°)	3.5	-	@2500	-	-	-	RNP APCH
TF	RW19L	Y	184° (190.5°)	7.4	-	@149	-	-3.00/50	-	RNP APCH
CF	SA560	Y	184° (190.5°)	2.1	-	-	-	-	ARL	RNP APCH
VM	-	-	148°	-	L	@1500	-	-	-	RNP APCH

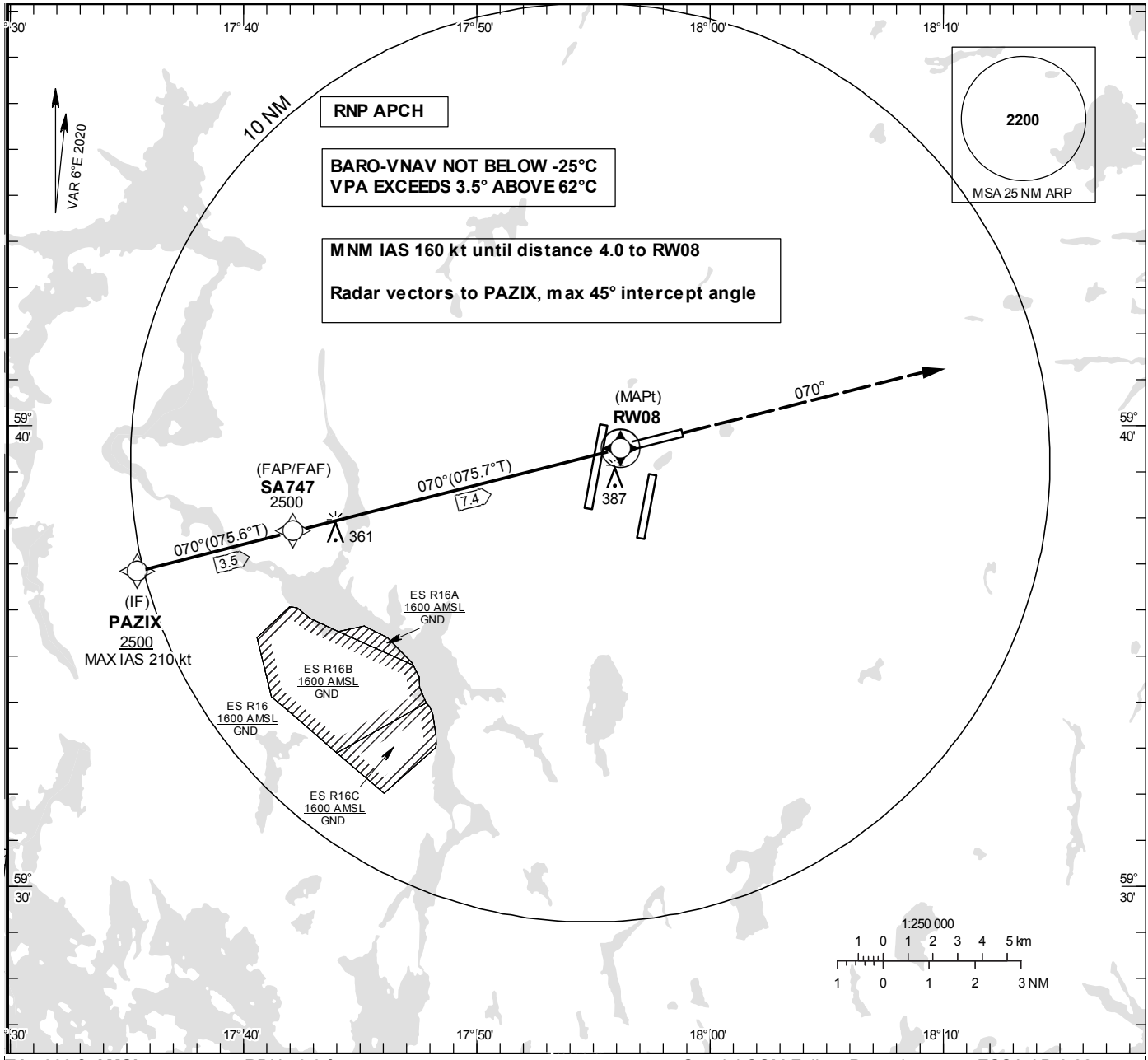
INSTRUMENT APPROACH CHART – ICAO

THR ELEV 108 ft, AD ELEV 138 ft
OCH are related to THR.
BRG are MAG (True).
ALT, HGT and ELEV in ft.

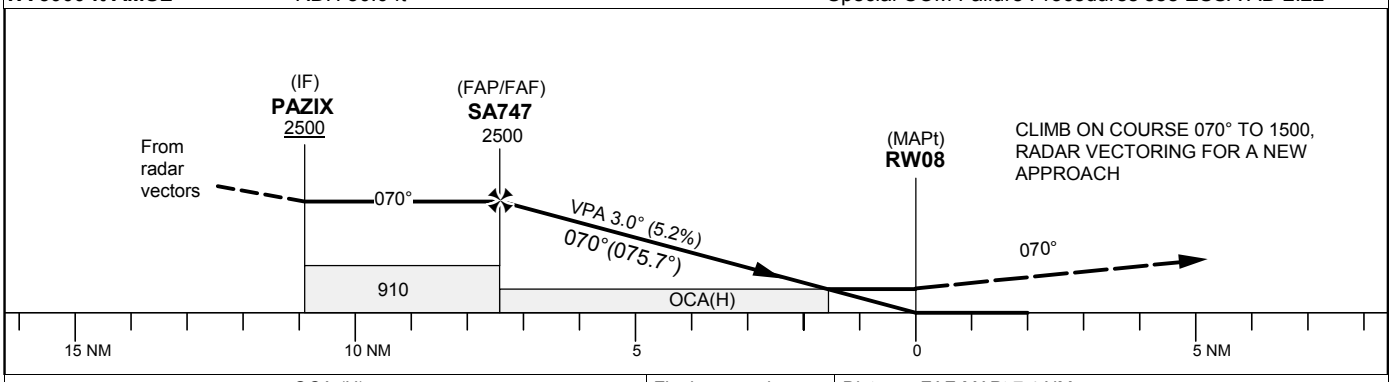
ARLANDA TOWER	**128.730/ 118.505/125.130**
ARLANDA ATIS ARR	**119.005**
STOCKHOLM APPROACH	**123.755**

RNP RWY 08

EGNOS Ch 85945 E 08A



TA 5000 ft AMSL RDH 50.0 ft Special COM Failure Procedures see ESSA AD 2.22



OCA (H)					Final approach	Distance FAF-MAPt 7.4 NM						
Cat of ACFT	A	B	C	D	Dist to RW08	7	6	5	4	3	2	
LPV	397 (289)	407 (299)	417 (309)	427 (319)	ALT	2387	2069	1750	1432	1113	795	
LNAV/VNAV	499 (391)	509(401)	530 (422)	542 (434)	GS	kt	80	100	120	140	160	180
LNAV	630(530)				Rate of descent	ft/min	425	530	635	745	850	955

RNP RWY 08 via PAZIX

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
IF	PAZIX	-	-	-	-	+2500	-210	-	-	RNP APCH
TF	SA747	-	070°(075.6°)	3.5	-	@2500	-	-	-	RNP APCH
TF	RW08	Y	070°(075.7°)	7.4	-	@158	-	-3.00/50	-	RNP APCH
CA	-	-	070°(075.7°)	-	-	+1500	-	-	-	RNP APCH
VM	-	-	070°	-	-	@1500	-	-	-	RNP APCH

FAS Data Block RNP RWY 08

Input data

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	ESSA
Runway	08
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E08A
LTP/FTP Latitude	593930.3100N
LTP/FTP Longitude	0175610.0800E
LTP/FTP Ellipsoidal Height (metres)	56.1
FPAP Latitude	593950.0300N
Delta FPAP Latitude (seconds)	19.7200
FPAP Longitude	0175844.9500E
Delta FPAP Longitude (seconds)	154.8700
Threshold Crossing Height	50.0
TCH Units Selector	0 (feet)
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	50.0

Output data

Data Block	10 01 13 13 05 08 00 00 01 38 30 05 0C 45 9A 19 C0 85 B2 07 31 16 10 9A 00 EC B9 04 F4 01 2C 01 64 00 C8 FA 2D C9 14 62
Calculated CRC Value	2DC91462
Supplied CRC Value	2DC91462
Comparison Result	OK

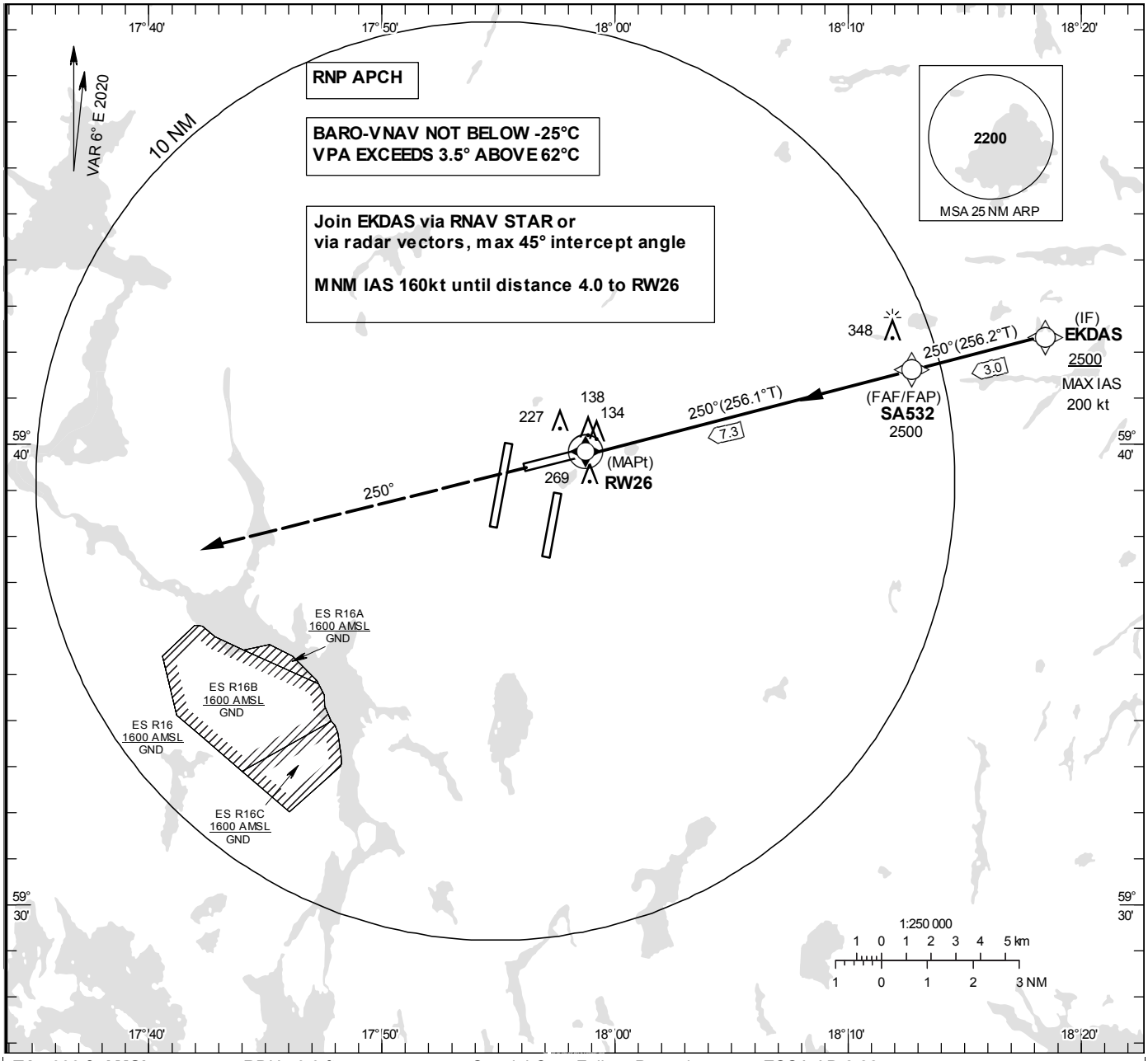
INSTRUMENT APPROACH CHART – ICAO

THR ELEV 124.8 ft, AD ELEV 138 ft
OCH are related to THR.
BRG are MAG (True).
ALT, HGT and ELEV in ft.

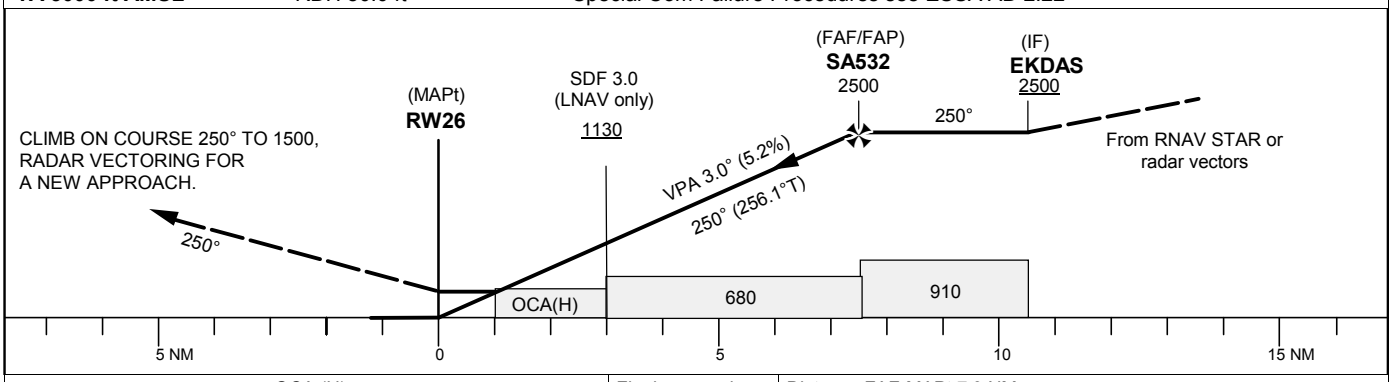
ARLANDA TOWER	**128.730/ 118.505/125.130**
ARLANDA ATIS ARR	**119.005**
STOCKHOLM APPROACH	**123.755**

RNP z RWY 26

EGNOS Ch 49489 E 26A



TA 5000 ft AMSL RDH 50.0 ft Special Com Failure Procedures see ESSA AD 2.22



OCA (H)					Final approach	Distance FAF-MAPt 7.3 NM						
Cat of ACFT	A	B	C	D	Dist to RW26	2	3	4	5	6	7	
LPV	278 (154)	286 (162)	296 (172)	305 (181)	ALT	812	1130	1449	1767	2085	2404	
LNAV/VNAV	382 (258)	390 (266)	398 (274)	406 (282)	GS	kt	80	100	120	140	160	180
LNAV	480 (360)				Rate of descent	ft/min	425	530	635	745	850	955

RNP z RWY 26 via EKDAS

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	EKDAS	-	-	-	-	+2500	-200	-	-	RNP APCH
TF	SA532	-	250° (256.2°)	3.0	-	@2500	-	-	-	RNP APCH
TF	RW26	Y	250° (256.1°)	7.3	-	@175	-	-3.00/50	-	RNP APCH
CA	-	-	250° (256.1°)	-	-	+1500	-	-	-	RNP APCH
VM	-	-	250°	-	-	@1500	-	-	-	RNP APCH

FAS Data Block **RNP z RWY 26**

Input data

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	ESSA
Runway	26
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	Z
Reference Path Data Selector	0
Reference Path Identifier	E26A
LTP/FTP Latitude	593950.0300N
LTP/FTP Longitude	0175844.9600E
LTP/FTP Ellipsoidal Height (metres)	61.0
FPAP Latitude	593930.3100N
Delta FPAP Latitude (seconds)	-19.7200
FPAP Longitude	0175610.0800E
Delta FPAP Longitude (seconds)	-154.8800
Threshold Crossing Height	50.0
TCH Units Selector	0 (feet)
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	35.0

Output data

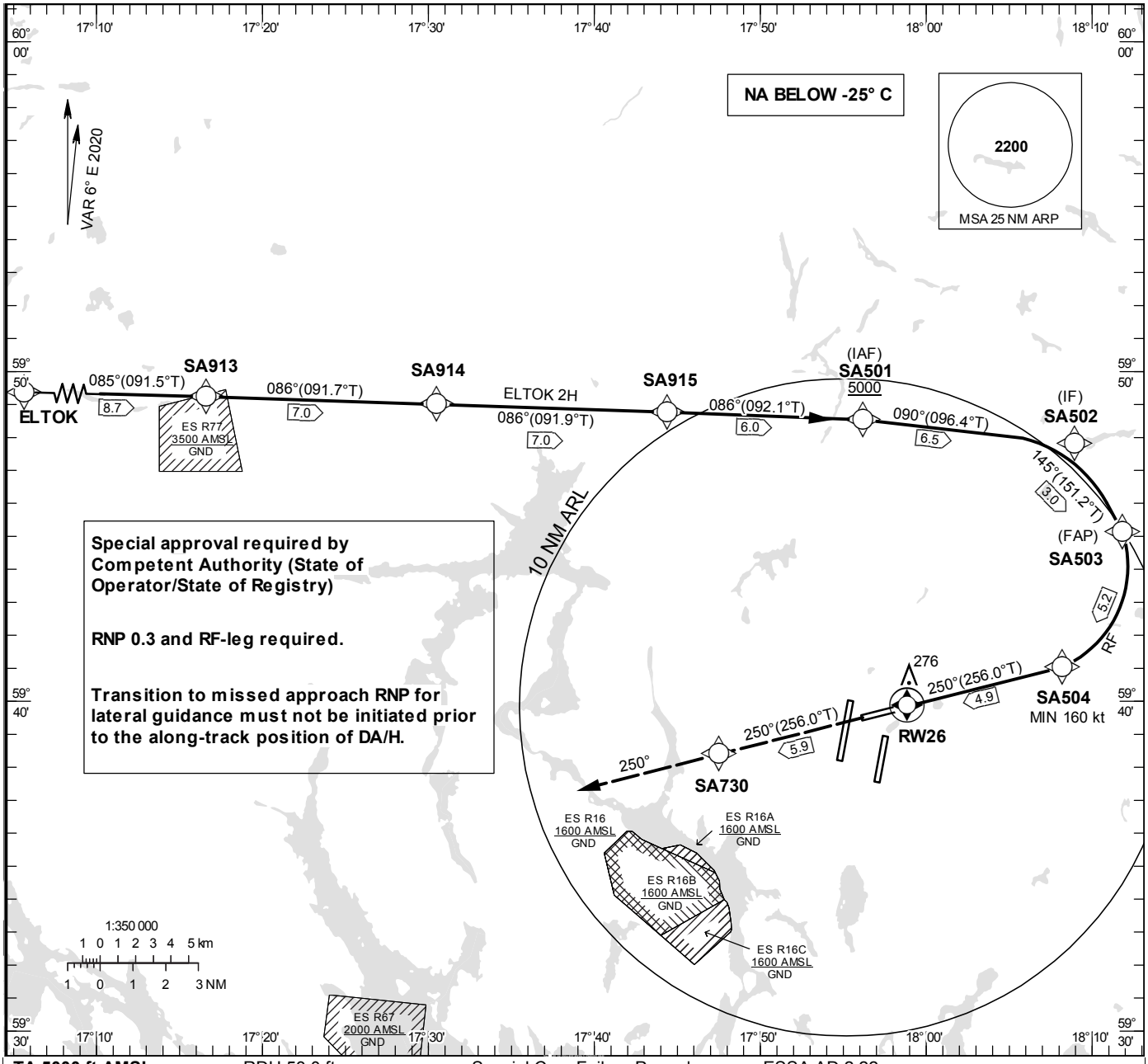
Data Block	10 01 13 13 05 1A D0 00 01 36 32 05 1C DF 9A 19 C0 3F B7 07 62 16 F0 65 FF 00 46 FB F4 01 2C 01 64 00 C8 AF 10 9B EE F0
Calculated CRC Value	109BEEF0
Supplied CRC Value	109BEEF0
Comparison Result	OK

INSTRUMENT APPROACH CHART – ICAO

THR ELEV 124.8 ft, AD ELEV 138 ft
OCH are related to THR.
BRG are MAG (True).
ALT, HGT and ELEV in ft.

ARLANDA TOWER	**128.730/ 118.505/125.130**
ARLANDA ATIS ARR	**119.005**
STOCKHOLM APPROACH	**123.755**

RNP y RWY 26 (AR)

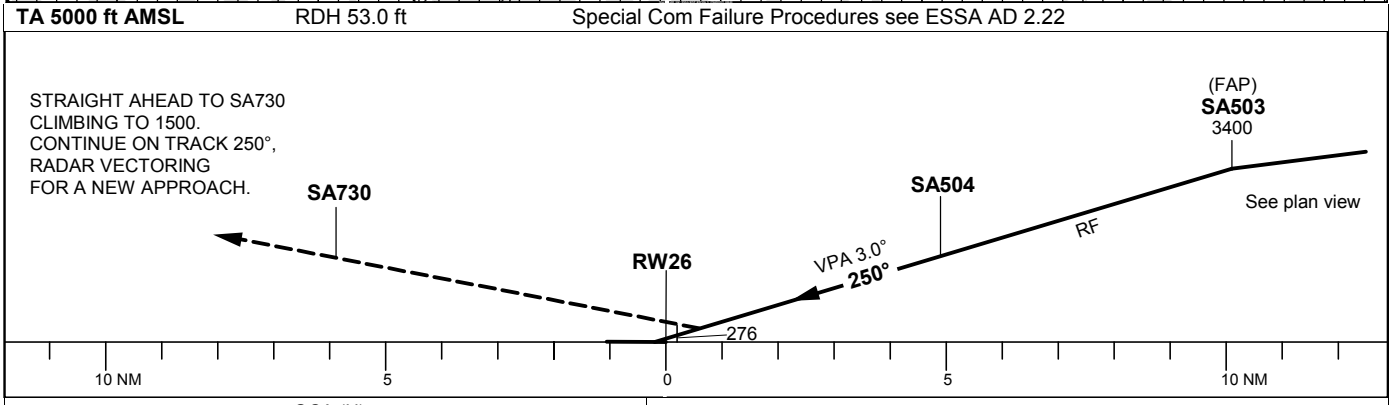


Special approval required by Competent Authority (State of Operator/State of Registry)

RNP 0.3 and RF-leg required.

Transition to missed approach RNP for lateral guidance must not be initiated prior to the along-track position of DA/H.

TA 5000 ft AMSL RDH 53.0 ft Special Com Failure Procedures see ESSA AD 2.22



OCA (H)				
Cat of ACFT	A	B	C	D
RNP (0.3)	406 (281)	418 (293)	426 (301)	437 (312)

Prescribed coding of RNP AR approach procedure to RWY 26 and RNP STAR ELTOK 2H at STOCKHOLM/ARLANDA aerodrome.

RNP STAR ELTOK 2H

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed (kt)	VPA/ RDH (°/ft)	ARC Radius (NM)	ARC Center	Nav Spec
IF	ELTOK	-	-	-	-	-	-	-	-	-	RNP 1.0
TF	SA913	-	085°(091.5°)	8.7	-	-	-	-	-	-	RNP 1.0
TF	SA914	-	086°(091.7°)	7.0	-	-	-	-	-	-	RNP 1.0
TF	SA915	-	086°(091.9°)	7.0	-	-	-	-	-	-	RNP 1.0
TF	SA501	-	086°(092.1°)	6.0	-	+5000	-	-	-	-	RNP 1.0

STAR instructions: ELTOK – SA913 – SA914 – SA915 – SA501 (A5000+)

RNP y RWY 26 (AR)

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude	Speed (kt)	VPA/ RDH(°/ft)	ARC Radius (NM)	ARC Center	Nav Spec
IF	SA501	-	-	-	-	+5000	-	-	-	-	RNP 0.3
TF	SA502	-	090°(096.4°)	6.5	-	-	-	-	-	-	RNP 0.3
TF	SA503	-	145°(151.2°)	3.0	-	@3400	-	-	-	-	RNP 0.3
RF	SA504	-	-	5.2	R	-	+160	-3.0	2.862	ARC53	RNP 0.3
TF	RW26	Y	250°(256.0°)	4.9	-	@179	-	-3.0	-	-	RNP 0.3
TF	SA730	-	250°(256.0°)	5.9	-	-	-	-	-	-	RNP 0.5
FM	SA730	-	250°	-	-	@1500	-	-	-	-	RNP 1.0

WPT sequence: SA501 (A5000+) – SA502 – SA503 (A3400) – SA504 (K160+) – RW26 – SA730 (A1500)

RNP STAR ELTOK 2H and RNP AR (Authorization Required) approach procedure to RWY 26 at STOCKHOLM/ARLANDA aerodrome.

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

GENERAL
The RNP AR procedure to RWY 26 is designed to shorten the flight distance and thereby minimizing pollution and noise dispersion.

APPROVED USERS, EQUIPMENT AND OPERATIONS

1. The operator must have a Baro VNAV approval issued by its Civil Aviation Authority.

2. The operator must have a special approval by the Competent Authority (State of Operator /State of Registry).

3. The RNP AR approach procedure requires a navigation accuracy of RNP 0.3 and RF-leg capability between SA503 – SA504. The vertical guidance is based on Baro VNAV with GNSS and IRS and requires RNAV equipment which uses barometric altimeter input.

4. The RNP STAR ELTOK 2H is based on the use of RNAV with RNP 1.0 and is designed to be used only in conjunction with the RNP AR procedure to RWY 26.

RAIM-CHECK
During flight planning the pilot shall perform a RAIM-check with mask angle 5°.

LIMITATIONS OF THE PROCEDURE
The procedure is designed for a temperature down to -25 degrees C. Temperature correction of the barometric altimeter is not required.

FMS/RNAV EQUIPMENT FAILURE
If the airborne FMS/RNAV equipment fails, ATS shall be informed as soon as practicable for radar vectors.

MISSED APPROACH PROCEDURE
The Missed Approach procedure is based on RNP 0.5 until SA730. Thereafter RNP 1.0 is valid.

1. Missed Approach, **before SA504**, continue the lateral navigation in accordance with the RNP AR procedure followed by Missed approach procedure.

2. Missed Approach, **after SA504**, continue straight ahead followed by Missed approach procedure.

3. Missed Approach and unable to follow lateral navigation due to FMS/RNAV equipment failure, inform ATS as soon as practicable for radar vectors.

COM FAILURE
In case of COM FAILURE see ESSA AD 2.22.

CHARTED ALTITUDE/FLIGHT LEVEL

5000	“At or above” altitude/flight level

AD 2 AERODROMES

ESOW 2.1 AERODROME LOCATION INDICATOR AND NAME

ESOW – STOCKHOLM/VÄSTERÅS

ESOW 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	ARP coordinates and site at AD	593522N 0163801E RWY centre point
2.	Direction and distance from (city)	E 3.0 NM from Västerås
3.	Elevation/Reference temperature	21 ft/+18.7°C
4.	Geoid undulation at AD ELEV PSN	84 ft
5.	MAG VAR/Annual change	6° E 2020/+0.2 increasing
6.	Administration, address, telephone, fax, AFS	Nya Västerås Flygplats AB SE-721 31 Västerås TEL: +46 (0)21 80 56 00 FAX: +46 (0)21 80 11 20 E-mail: operations@vasterasairport.se AFS: ESOWZTZX Website: www.vst.nu
7.	Types of traffic permitted (IFR/VFR)	IFR/VFR. Max RWY ref code 4C
8.	Remarks	PPR. See para 2.20.

ESOW 2.3 OPERATIONAL HOURS

1.	AD Administration AD Operating hours	MON-FRI 0700-1600 (0600-1500) H24
2.	Customs and immigration	O/R
3.	Health and sanitation	O/R
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	Fuel truck Jet A1: Available 30 min after ATS opening until 30 min before ATS closing. Self Service: Jet A1, 100LL and UL91, see para 2.4.7.
9.	Handling	O/R
10.	Security	O/R
11.	De-Icing	O/R
12.	Remarks	Increased charges outside TWR HR of OPS

ESOW 2.4 HANDLING SERVICES AND FACILITIES

1.	Cargo-handling facilities	Available, all types
2.	Fuel/oil types	Fuel Jet A1, 100LL, UL91 Oil -
3.	Fuelling facilities/discharge capacity	Jet A1: 2 trucks x 20,000 l. Fuel tank 100,000 l for fuel trucks on APN 1. Stationary 10,000 l on APN 4. 100LL: 2 stationary x 20,000 l. UL91: Stationary 20,000 l.
4.	De-icing facilities	Available, Type I and II
5.	Hangar space for visiting ACFT	O/R operations@vasterasairport.se
6.	Repair facilities for visiting ACFT	O/R operations@vasterasairport.se
7.	Remarks	Jet A1 AirBP: self service APN 4 (AirBP carnet) 100LL AirBP: self service APN 4 (AirBP carnet) 100LL Shell: self service APN 4 (Shell carnet/VISA) UL91 AirBP: self service APN 4 (AirBP carnet) For inquiry about self service payment options other than listed above, contact TEL +46 (0)21 41 06 30 MON-FRI 0800-1600 (0700-1500) prior to flight.

ESOW 2.5 PASSENGER FACILITIES

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

ESOW 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	CAT 7 for SKED TFC. CAT 5 for TFC up to 10 000 kg MTOM during TWR HR of OPS. Others O/R TEL +46 (0)21 80 56 01 or email operations@vasterasairport.se
2.	Rescue equipment	-
3.	Capability for removal of disabled aircraft	TEL +46 (0)70 465 80 31
4.	Remarks	-

ESOW 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	Blowers/sweepers
2.	Clearance priorities	RWY, TWY, Apron
3.	Remarks	RWY de-iced/anti-iced with NAFO/KFOR and/or SAND.

ESOW 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	Apron surface and strength	Apron 1 ASPH PCN 55 F/C/X/T Apron 2 ASPH PCN 30 F/C/X/T Apron 3 ASPH PCN 30 F/C/X/T Apron 4 ASPH PCN 30 F/C/X/T Apron 5 ASPH PCN 30 F/C/X/T Apron 6 ASPH PCN 30 F/C/X/T
2.	Taxiway width, surface and strength	TWY A 11 m ASPH PCN 30 F/C/X/T TWY B 11 m ASPH PCN 30 F/C/X/T TWY C 12 m ASPH PCN 30 F/C/X/T TWY D 11 m ASPH PCN 30 F/C/X/T TWY E 11 m ASPH PCN 30 F/C/X/T TWY F 25 m ASPH PCN 55 F/C/X/T TWY G 12 m ASPH PCN 30 F/C/X/T
3.	ACL, location and elevation	Apron 1, Stand 3 37 ft
4.	VOR checkpoints	-
5.	INS checkpoints	-
6.	Remarks	-

ESOW 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, edges day marked. RTHL, REDL, RENL TWY A: CL, ITHP day marked, Edge LGT B: CL, HLDG day marked, Edge LGT, RGL C: CL, HLDG day marked, Edge LGT, RGL D: CL day marked, blue reflective edge markers E: CL, HLDG day marked, blue reflective edge markers, RGL F: CL, HLDG day marked, Edge LGT, RGL G: CL day marked, Edge LGT
3.	Stop bars	-
4.	Remarks	-

ESOW 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
ESOW1	Vegetation	593617.9N 0163815.9E	59 / -	-	-
ESOW2	Vegetation	593618.0N 0163815.6E	61 / -	-	-
ESOW3	Vegetation	593701.3N 0163822.7E	142 / -	-	-
ESOW4	Vegetation	593735.1N 0163833.3E	198 / -	-	-
ESOW5	Vegetation	593736.3N 0163835.5E	212 / -	-	-
ESOW6	Vegetation	593737.0N 0163836.9E	214 / -	-	-
ESOW7	Vegetation	593433.8N 0163734.4E	27 / -	-	-
ESOW8	Vegetation	593432.3N 0163749.1E	27 / -	-	-
ESOW9	Vegetation	593411.2N 0163718.3E	84 / -	-	-
ESOW10	Vegetation	593410.6N 0163722.6E	88 / -	-	-
ESOW11	Vegetation	593355.6N 0163720.1E	109 / -	-	-
ESOW12	Vegetation	593355.0N 0163719.0E	113 / -	-	-
ESOW13	Vegetation	593348.6N 0163723.8E	121 / -	-	-
ESOW14	Vegetation	593340.5N 0163722.6E	141 / -	-	-
ESOW15	Vegetation	593331.7N 0163737.0E	152 / -	-	-

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

ESOW 2.11 METEOROLOGICAL INFORMATION PROVIDED

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

ESOW 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	True BRG and MAG BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APCH RWY
1	2	3	4	5	6
01	011.64° GEO 006° MAG	2581 x 45	PCN 55 F/B/X/T ASPH	593442.54N 0163745.30E GUND 84 ft	THR 6 ft
19	191.65° GEO 186° MAG	2581 x 45	PCN 55 F/B/X/T ASPH	593604.23N 0163818.51E GUND 83.7 ft	THR 21.7 ft TDZ 21.7 ft

Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
01 Info not avbl.	-	-	2701 x 300	-	-
19 Info not avbl.	-	-	2701 x 300	-	-

ESOW 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
01	2581	2581	2581	2581	-
19	2581	2581	2581	2581	-

DECLARED DISTANCES TAKE-OFF INTERSECTIONS						
RWY	INTERSECTION	TORA (m)	TODA (m)	ASDA (m)		Remarks
1		2	3	4	5	6
01	TWY B	2013	2013	2013	-	-
01	TWY C	1154	1154	1154	-	-
19	TWY C	1438	1438	1438	-	-
19	TWY E	1995	1995	1995	-	-

ESOW 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT Type, LEN INTST	THR LGT Colour WBAR	VASIS (MEHT)	TDZ LGT LEN	RWY Centre Line LGT LEN, Spacing Colour INTST	RWY Edge LGT LEN, Spacing Colour INTST	RWY End LGT Colour WBAR	SWY LGT LEN, Colour
1	2	3	4	5	6	7	8	9
01	Barrette CL SALS 330 m LIH	Green	PAPI Left/3.25° (59.0 ft)	-	-	2581/60 m White Caution zone 600 m yellow LIH	Red	-
19	Barrette CL CAT I 900 m LIH	Green	PAPI Left/3.00° (50.0 ft)	-	-	2581/60 m White Caution zone 600 m yellow LIH	Red	-

10 Remarks:	RWY 01:	PCL LIL RWY and TWY on channel 130.605 7 sec carrier wave
	RWY 19:	PCL LIL RWY and TWY on channel 130.605 7 sec carrier wave

ESOW 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1.	ABN/IBN location, characteristics and hours of operation	ABN at TWR FLG W/G 24/min, H24
2.	LDI location and LGT Anemometer location and LGT	Lighted windsock E TWY C. Windsocks at RWY ends and E Apron 3. 366 m NE THR 01, lighted 403 m SW THR 19, lighted
3.	TWY edge and centre line lighting	Edge: TWY A, B, C, F, G CL: -
4.	Secondary power supply/switch-over time	Available/No interruption
5.	Remarks	-

ESOW 2.16 HELICOPTER LANDING AREA

RWY 01/19 or grass RWY 01/19 to be used

ESOW 2.17 ATS AIRSPACE

1.	Designation and lateral limits	VÄSTERÅS CTR	594704N 0163615E - 594556N 0164805E - 593406N 0164749E - 592348N 0163944E - 592454N 0162810E - 593633N 0162752E - 594704N 0163615E
2.	Vertical limits	VÄSTERÅS CTR	1500 ft AMSL / GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	VÄSTERÅS TOWER Swedish/English	
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	CTR established during hours of TWR. Johannisberg ATZ with airspace class G penetrates CTR. The lower limit of Västerås CTR in this part is 1000 ft AMSL. For details see ENR 2.2 and AD 2 ESOW 6-1.	

ESOW 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	VÄSTERÅS TOWER	130.605	HO	Primary channel VDF.
		121.500	HO	-
APP	VÄSTERÅS APPROACH	125.955	HO	VDF
		121.500	HO	-
ATIS	VÄSTERÅS ATIS	127.555	HO	-

ESOW 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
L 01	RD	419 kHz	H24	593103.2N 0163616.3E		Range 15 NM
LOC 19 ILS CAT I (6° E 2020)	SCD	108.30 MHz	H24	593433.2N 0163741.5E		294 m beyond THR 01 ILS Class I/E/2
GP		334.10 MHz	H24	593555.0N 0163807.0E		Angle 3.0° RDH 49.9 ft 315 m past THR 19 right side
L 19	LE	333 kHz	H24	593946.9N 0163948.7E		Range 15 NM
DVOR/DME (6° E 2020)	ARS	112.80 MHz	H24	593510.4N 0163901.2E	40 ft	1012 m ESE ARP DME channel 75X
DME	SCD	108.30 MHz	H24	593554.8N 0163807.2E	32 ft	DME channel 20X

ESOW 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. Tillgänglighet

LOCAL TRAFFIC REGULATIONS

1. Availability

PPR för all trafik i ESOW CTR samt TMA Sektor Västerås under ATS öppethållningstid.
Telefon +46 (0)21 80 00 20. SKED TFC, SAR, HOSP och polisflygningar undantaget.

Start och landning på flygplatsen är förbjudet utanför ATS öppethållning. SAR, HOSP, polisflygningar och brukare med lokala skriftliga överenskommelser är undantagna.
För information kontakta e-mail:
flightrequest@vasterasairport.se

2. Föreskrifter för skol- och övningsflygning

Upprepade start- och landningsövningar (TGL) tillåts endast:
15 MAY–14 JUN MON–FRI 0600–1900 (0500–1800),
SAT 0900–1300 (0800–1200).
15 JUN–15 AUG MON–FRI 0800–1700 (0700–1600).
16 AUG–14 MAY MON–FRI 0600–1900 (0500–1800),
SAT 0800–1600 (0700–1500).

TGL får inte utföras under långfredagen, påskafton, påskdagen, Kristi Himmelsfärdsdag, pingstafton, pingstdagen, nationaldagen, midsommarafton, midsommardagen, Alla Helgons dag, julafton och juldagen.

3. Trafikföreskrifter

Utanför ATS öppethållningstider:
VFR in- och utpasseringspunkter bör användas.
Ankommande VFR-trafik bör passera plats på 1500 ft AMSL innan angöring av trafikvarv.
Reducering av höjd sker därefter enligt eget avgörande.
Trafikvarv till RWY skall förläggas E RWY.
Gräsbana stängd.

Under ATS öppethållning:
Rätt VFR in- och utpasseringspunkt bör nyttjas i förhållande till bana i användning.
Bana 01 inpasseringspunkter är Vikhus och Golfbanan.
Bana 01 utpasseringspunkter är Romfartuna och Björksta.
Bana 19 inpasseringspunkter är Romfartuna och Björksta.
Bana 19 utpasseringspunkter är Vikhus och Golfbanan.
ATC-klarering kan avvika.

4. Parkering allmänflyg

Parkering för allmänflyget på platta 4 om inget annat meddelats.

ESOW 2.21 MINSKNING AV BULLERSTÖRNING

Flygning över Västerås centrala delar, Irsta och Björnön bör undvikas under 2000 ft utom i direkt samband med in- eller utflygning.

PPR for all TFC in ESOW CTR and in TMA Sector Västerås during ATS HR of OPS.
Phone +46(0)21 80 00 20. SKED TFC, SAR, HOSP and police flights exempted.

Take-off and landing at the aerodrome is prohibited outside ATS HR of OPS. SAR, HOSP, Police flights and operators with local written agreement exempted.
For information contact e-mail:
flightrequest@vasterasairport.se

2. Provisions to school and training flights

Repeated touch-and-go landings (TGL) only permitted:
15 MAY–14 JUN MON–FRI 0600–1900 (0500–1800),
SAT 0900–1300 (0800–1200).
15 JUN–15 AUG MON–FRI 0800–1700 (0700–1600).
16 AUG–14 MAY MON–FRI 0600–1900 (0500–1800),
SAT 0800–1600 (0700–1500).

TGL not permitted Good Friday, Easter Eve, Easter Day, Ascension Day, Whitsun Eve, Whitsun Day, National Day, Midsummer Eve, Midsummer Day, All Saints Day, Christmas Eve and Christmas Day.

3. Traffic regulations

Outside ATS HR of OPS:
VFR entry and exit points should be used.
Arriving VFR traffic should pass overhead at 1500 ft AMSL before joining traffic circuit and descending at own discretion.
Traffic circuit to RWY shall be flown E RWY.
Grass RWY closed.

During ATS HR of OPS:
VFR entry and exit point should be used in accordance with current RWY in use.
RWY 01 entry points are Vikhus and Golfbanan.
RWY 01 exit points are Romfartuna and Björksta.
RWY 19 entry points are Romfartuna and Björksta.
RWY 19 exit points are Vikhus and Golfbanan.
Deviations may occur according to ATC clearance.

4. Parking General Aviation

General Aviation parking at apron 4 unless otherwise instructed by ATS.

NOISE ABATEMENT PROCEDURES

Flight should be avoided over the central part of Västerås, Irsta and Björnön below 2000 ft, except in direct connection to take-off or landing.

ESOW 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
01	Climb straight ahead with MNM 380 ft/NM (6.2%) to MNM turning ALT 500 ft. Continue climb to appropriate MSA.	Pylon Pylon	151 1191	018°/3200 299°/14650
19	Climb straight ahead to MNM turning ALT 600 ft. Continue climb to appropriate MSA.	(CIO) Terrain Pylon	181 1191	198°/3260 291°/14100

2. VFR-flygning inom CTR

Upprepade start- och landningsövningar för luftfartyg i turbulenskategori L ska ske på lägst 1000 ft (300 m) AMSL, utom i samband med start och landning.

Upprepade start- och landningsövningar för luftfartyg i turbulenskategori M och H ska ske på lägst 2 000 ft (600 m) AMSL, utom i samband med start och landning.

Upprepade start- och landningsövningar för luftfartyg i turbulenskategori L (med undantag för övning med helikopter) ska genomföras i det östra trafikvarvet vid varje tillfälle flygsäkerheten så tillåter.

2. VFR flight within CTR

Repeated take-off and landing exercises for aircraft in wake turbulence category L shall be conducted at minimum 1000 ft (300 m) AMSL, except in connection with take-off and landing.

Repeated take-off and landing exercises for aircraft in wake turbulence category M and H shall be conducted at minimum 2000 ft (600 m) AMSL, except in connection with take-off and landing.

Repeated take-off and landing exercises for aircraft in wake turbulence category L (with the exception of exercises with helicopters) must be carried out in the eastern traffic circuit whenever flight safety allows.

ESOW 2.23 ÖVRIG INFORMATION

1. Förhandstillstånd (PPR)/Förhandsmeddelande (PN) krävs för nedanstående flygverksamhet inom Stockholm TMA.

- Skol- och övningsflygning som omfattar “airwork, flygning i väntläge och/eller upprepande instrument-inflygningar (PN).
- Fotoflygning (PPR).
- Geologisk mätflygning och liknande (PN).
- Fällning av fallskärmshoppare (PN).
- Förplanerad kontrollflygning (mätflygning) av navigerings- och inflygningshjälpmedel (PN).

Innan färdplan lämnas in, skall förhandstillstånd (PPR) inhämtas eller förhandsmeddelande (PN) lämnas till skiftledaren vid Stockholm ACC TEL 08 585 547 02.

Undantag: Om flygningen kommer att beröra sektor Västerås, se punkt 2.20.

2. Reducerad banseparation tillämpas på flygplatsen enligt AD 1.1 mom 10.

3. Modellflygsektor Arosängen

Aktivitet med obemannade luftfartyg kan förekomma. Position 594028N 0163416E med 400 m radie och max 120 m över marken.

ADDITIONAL INFORMATION

1. Prior Permission (PPR)/Prior notice (PN) required for operations mentioned below within Stockholm TMA.

- School and training flights comprising “airwork”, holding/or repeated instrument approaches (PN).
- Aerial photographing (PPR).
- Geological survey flights and the like (PN).
- Parachute dropping (PN).
- Non-urgent navaids and approach aids calibration flights (PN).

Before submitting the flight plan, the operator shall get prior permission or give prior notice of the flight to the Watch Supervisor at Stockholm ACC, phone +46 (0)8 585 547 02.

Exception: If the flight will be conducted within sector Västerås, see para 2.20.

2. Reduced RWY separation applies at the aerodrome according to AD 1.1 para 10.

3. Model flying sector Arosängen

Unmanned aircraft activity may occur. Position 594028N 0163416E with 400 m radius and max 120 m above ground.

ESOW 2.24 TILLHÖRANDE KARTOR / RELATED CHARTS

AD chart		ESOW 2-1
AOC		ESOW-3-1
Area Chart		See **ESSA 4-1**
List of waypoints and significant points		ESOW 4-3
ATC Surveillance Minimum ALT Chart		ESOW 4-91
IAC	NDB+DME+ILS 19	ESOW 5-1
IAC	NDB 19	ESOW 5-2
IAC	NDB 01	ESOW 5-3
IAC	RNP RWY 01	ESOW 5-7
IAC	RNP RWY 19	ESOW 5-11
VAC		ESOW 6-1

ARP 593522N 0163801E

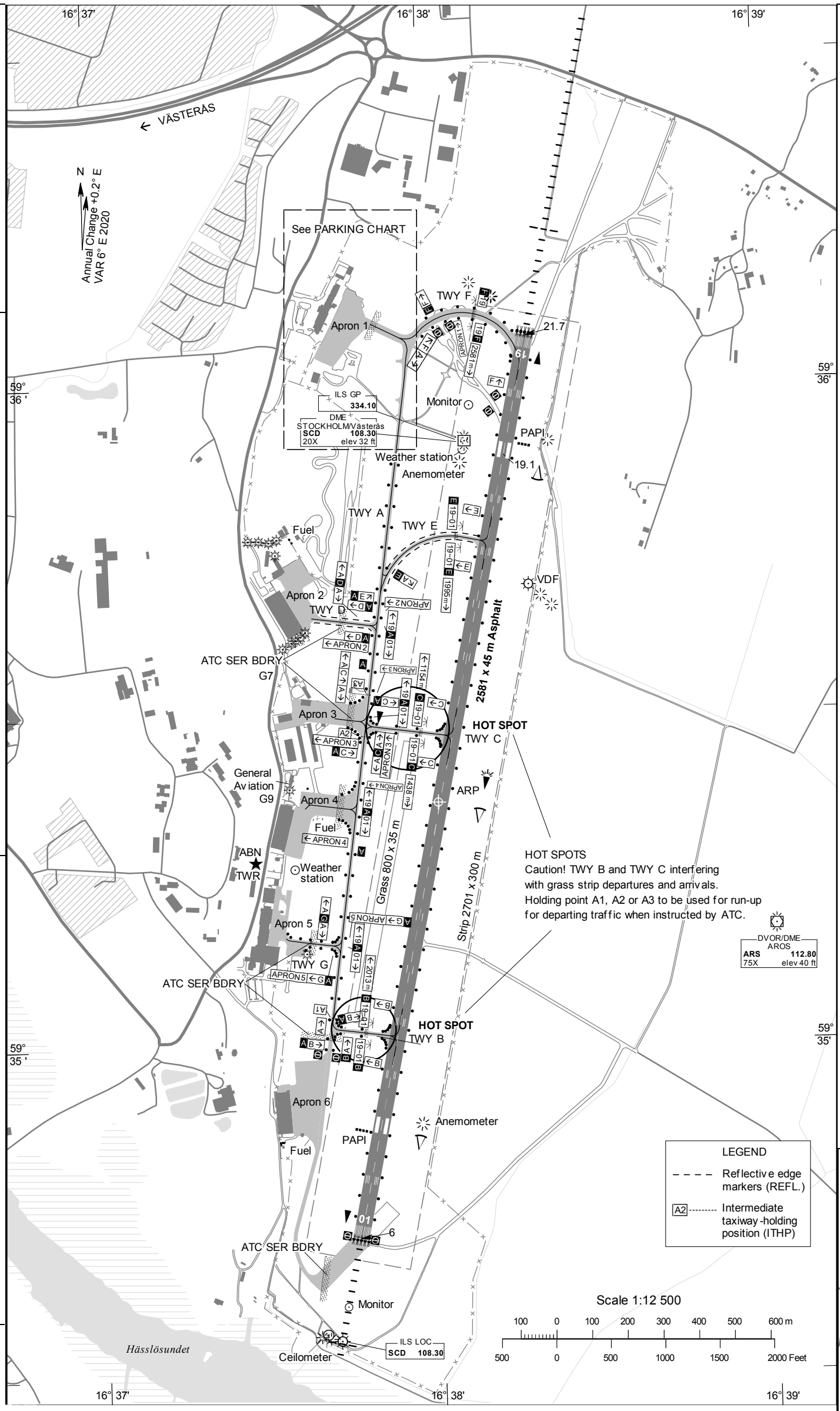
AD ELEV 21 FEET

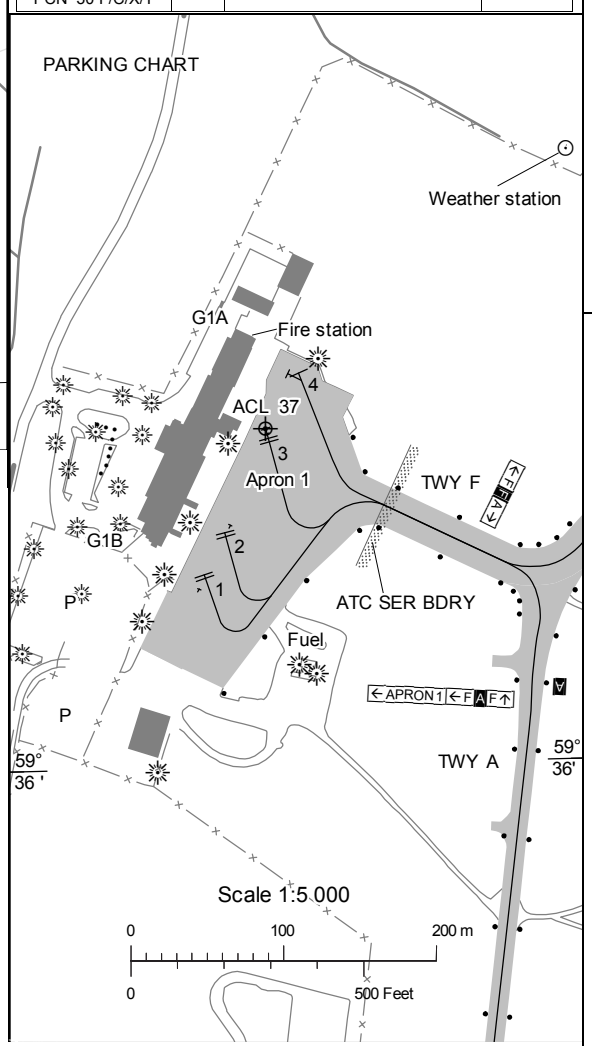
LEGEND See GEN 2.3

Dimensions in m, ELEV in ft

TWY NR	WIDTH	Surface Bearing strength	Day marking	Taxiway lighting	
			Centerline Holding	Edge Centerline	RGL Stopbar
A	11 m	ASPH PCN 30 F/C/X/T	CL ITHP	EDGE	
B	11 m	ASPH PCN 30 F/C/X/T	CL HLDG	EDGE	RGL
C	12 m	ASPH PCN 30 F/C/X/T	CL HLDG	EDGE	RGL
D	11 m	ASPH PCN 30 F/C/X/T	CL	REFL. B	
E	11 m	ASPH PCN 30 F/C/X/T	CL HLDG	REFL. B	RGL
F	25 m	ASPH PCN 55 F/C/X/T	CL HLDG	EDGE	RGL
G	12 m	ASPH PCN 30 F/C/X/T	CL	EDGE	

INS Coordinates for Aircraft Stands			
APRON Surface Bearing strength	NR	COORD	ELEV
1 ASPH PCN 55 F/C/X/T	3	593607.17N 0163746.04E	37
2 ASPH PCN 30 F/C/X/T			
3 ASPH PCN 30 F/C/X/T			
4 ASPH PCN 30 F/C/X/T			
5 ASPH PCN 30 F/C/X/T			
6 ASPH PCN 30 F/C/X/T			





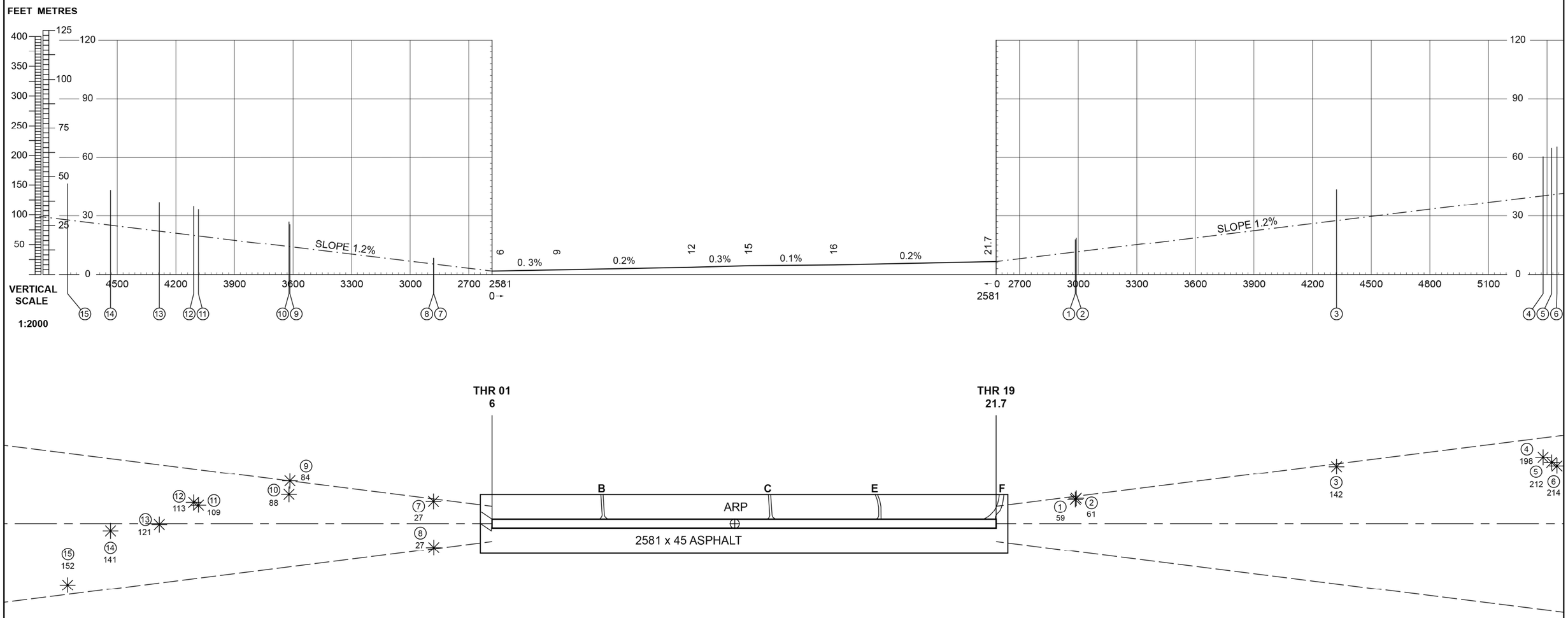
RWY NR	TRUE & MAG BRG	THR PSN Geoid undulation	Bearing strength	THR ELEV and highest ELEV of TDZ of precision APCH RWY	Declared distances				Approach and runway lighting				
					TORA	TODA	ASDA	LDA	APCH	THR TRID TDZ	VASIS (MEHT)	Edge	End
01	011.64° GEO 006° MAG	593442.54N 0163745.30E GUND 84 ft	PCN 55 F/B/X/T	THR 6 ft	2581	2581	2581	2581	Barrette CL SALS 330 m LIH	THR Green	PAPI Left/3.25° (59.0 ft)	2581/60 m White Caution zone 600 m yellow LIH	Red
19	191.65° GEO 186° MAG	593604.23N 0163818.51E GUND 83.7 ft	PCN 55 F/B/X/T	THR 21.7 ft TDZ 21.7 ft	2581	2581	2581	2581	Barrette CL Cat I 900 m LIH	THR Green	PAPI Left/3.00° (50.0 ft)	2581/60 m White Caution zone 600 m yellow LIH	Red

DIMENSIONS IN METRES ELEVATIONS IN FEET	**AERODROME OBSTACLE CHART-ICAO** TYPE A-OPERATING LIMITATIONS	**STOCKHOLM/VÄSTERÅS** **SWEDEN**	**AD 2-ESOW-3-1** **RWY 01/19**

AERODROME ELEVATION 21 FEET
MAGNETIC VARIATION 6° E 2020

RUNWAY BEARINGS
01 = GEO 011.64°; MAG 06°
19 = GEO 191.65°; MAG 186°

RWY 01	DECLARED DISTANCES	RWY 19
2581	TAKE-OFF RUN AVAILABLE	2581
2581	TAKE-OFF DISTANCE AVAILABLE	2581
2581	ACCELERATE STOP DIST. AVAILABLE	2581
2581	LANDING DISTANCE AVAILABLE	2581



HORIZONTAL SCALE 1:20 000

METRES

FEET

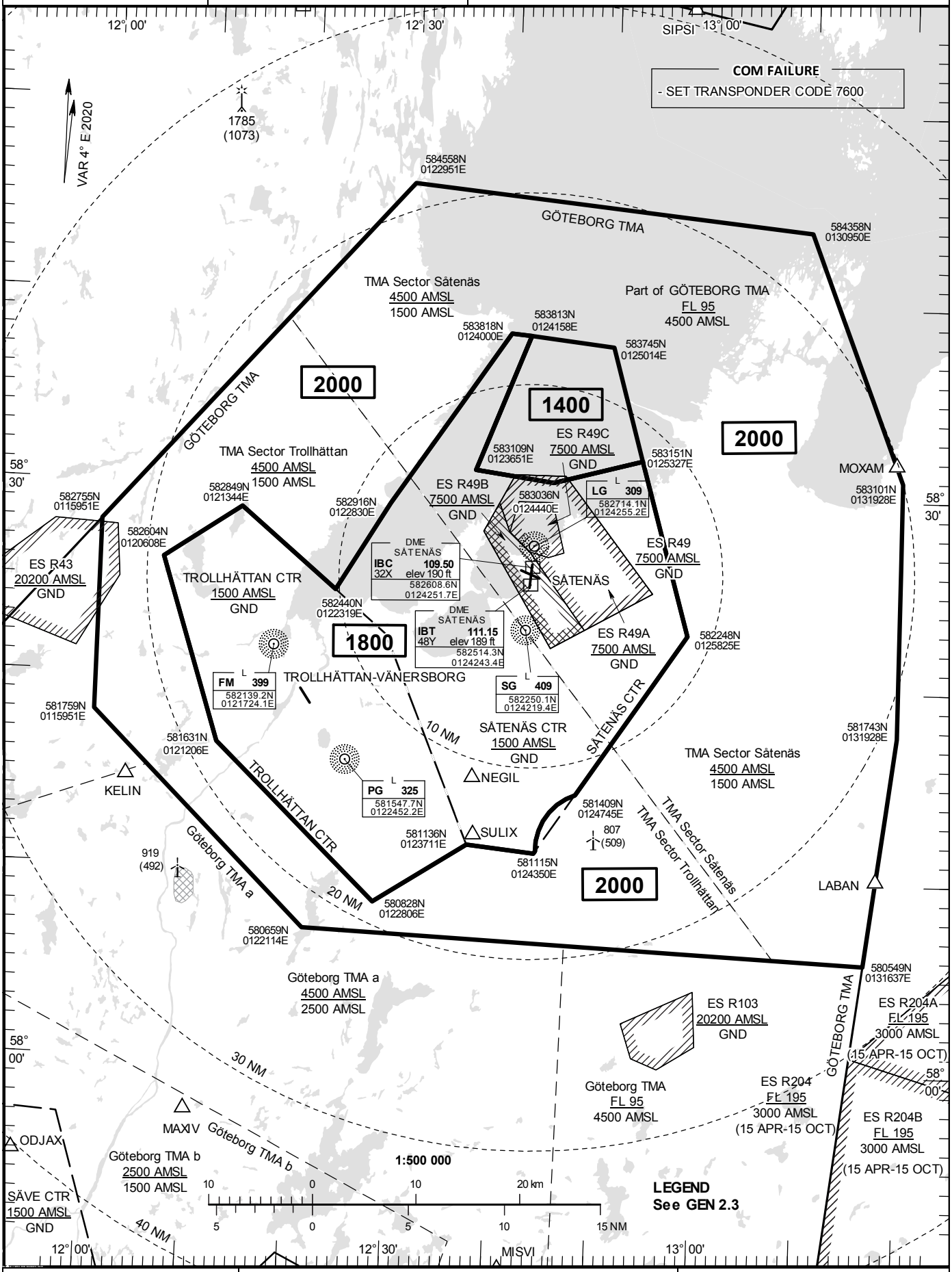
ORDER OF ACCURACY

HORIZONTAL 5 m
VERTICAL 1 ft

LEGEND	
IDENTIFICATION NUMBER	1
POLE, TOWER, SPIRE, ANTENNA, ETC.	⊙
TREE OR SHRUB	✳

LFV	CHANGE: OBST, Editorial	AIRAC AMDT 6/2023	**ESOW-AOC 01/19** **02 NOV 2023**

AD ELEV 181 FEET **HGT and ALT in ft** **TA 5000 AMSL**	**SÅTENÄS TOWER 128.200** **SÅTENÄS GROUND 121.850** **SÅTENÄS APPROACH 134.550**	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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AD 2 AERODROMES

ESGT 2.1 AERODROME LOCATION INDICATOR AND NAME

ESGT – TROLLHÄTTAN-VÄNERSBORG

ESGT 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

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

ESGT 2.3 OPERATIONAL HOURS

1.	AD Administration AD Operating hours	As ATS As ATS
2.	Customs and immigration	MON-SUN 0600-2000 (0500-1900)
3.	Health and sanitation	-
4.	AIS Briefing Office	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
5.	ATS Reporting Office (ARO)	As ATS
6.	MET Briefing Office	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
7.	ATS	Ref AIP SUP/NOTAM
8.	Fuelling	As ATS
9.	Handling	As ATS
10.	Security	As ATS
11.	De-Icing	As ATS
12.	Remarks	Increased charges outside TWR HR of OPS

ESGT 2.4 HANDLING SERVICES AND FACILITIES

1.	Cargo-handling facilities	Available, forklift
2.	Fuel/oil types	Fuel Jet A1, 91UL Oil -
3.	Fuelling facilities/discharge capacity	Jet A1: 15,000 l in fuelling truck, 100,000 l in store 91UL: 20,000 l
4.	De-icing facilities	Available, Type I and Type II
5.	Hangar space for visiting ACFT	-
6.	Repair facilities for visiting ACFT	Available
7.	Remarks	Fuel supplier Air BP Battery charger: Pipistrel skycharge M20 Portabel charger

ESGT 2.5 PASSENGER FACILITIES

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

ESGT 2.6 RESCUE AND FIRE FIGHTING SERVICES

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

ESGT 2.7 SEASONAL AVAILABILITY – CLEARING

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

ESGT 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	TROLLHÄTTAN-VÄNERSBORG TWR
10.	Additional information (limitation of service, etc.)	Flight planning room available

ESGT 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	True BRG and MAG BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APCH RWY
1	2	3	4	5	6
15	146.07° GEO 141° MAG	1710 x 30	PCN 18 F/C/X/T ASPH	581927.26N 0122011.78E End RWY: 581841.41N 0122110.38E GUND 113 ft	THR 136 ft
33	326.08° GEO 321° MAG	1710 x 30	PCN 18 F/C/X/T ASPH	581847.00N 0122103.24E GUND 113.4 ft	THR 134.8 ft TDZ 135.3 ft

Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
15 See ESGT AOC	-	-	1830 x 180	-	See AD chart for non-standard dimensions
33 See ESGT AOC	-	-	1830 x 180	-	THR 33 displaced 209 m. See AD chart for non-standard dimensions

ESGT 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
15	1710	1710	1710	1710	-
33	1710	1710	1710	1501	-

ESGT 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT Type, LEN INTST	THR LGT Colour WBAR	VASIS (MEHT)	TDZ LGT LEN	RWY Centre Line LGT LEN, Spacing Colour INTST	RWY Edge LGT LEN, Spacing Colour INTST	RWY End LGT Colour WBAR	SWY LGT LEN, Colour
1	2	3	4	5	6	7	8	9
15	SALS 420 m LIL/LIH	Green	PAPI Left/3.00° (41.9 ft)	-	-	1710/60 m White Caution zone 600 m yellow LIL/LIH	Red	-
33	Calvert CAT I 900 m LIL/LIH	Green	PAPI Left/3.00° (41.7 ft)	-	-	1710/60 m White Caution zone 600 m yellow LIL/LIH	Red	-

10 Remarks:	RWY 15:	PCL LIL RWY on channel 122.730 for 5 SEC.
	RWY 33:	PCL LIL RWY on channel 122.730 for 5 SEC.

ESGT 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	At RWY THRs. Lighted windsock S apron At PAPI 15, N TWY S, lighted
3.	TWY edge and centre line lighting	Edge: TWY M CL: -
4.	Secondary power supply/switch-over time	Available/ 1 sec
5.	Remarks	-

ESGT 2.16 HELICOPTER LANDING AREA

RWY 15/33 to be used

ESGT 2.17 ATS AIRSPACE

1.	Designation and lateral limits	TROLLHÄTTAN CTR	582849N 0121344E - 582440N 0122319E - 582225N 0122829E - 581136N 0123711E - 580828N 0122806E - 581631N 0121206E - 582604N 0120608E - 582849N 0121344E
2.	Vertical limits	TROLLHÄTTAN CTR	1500 ft AMSL / GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	TROLLHÄTTAN TOWER Swedish/English	
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	CTR established during hours of TWR.	

ESGT 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	TROLLHÄTTAN TOWER	122.730	HO	Primary channel
		121.500	HO	-

ESGT 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (for VOR/ILS/MLS give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
L 15	FM	399 kHz	H24	582139.2N 0121724.1E		Range 15 NM
LOC 33 ILS CAT I (5° E 2025)	TRH	111.90 MHz	H24	581935.3N 0122001.5E		300 m beyond THR 15 ILS class I/D/2
GP		331.10 MHz	H24	581851.6N 0122049.2E		Angle 3.0° RDH 40.0 ft 245 m past THR 33 left side
OM				581547.2N 0122452.6E		-
MM				581816.7N 0122141.9E		-
L 33	PG	325 kHz	H24	581547.7N 0122452.2E		Range 15 NM

ESGT 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. PPR gäller för skol- och övningsflygning som innebär upprepade instrumentinflygningar samt TGL.

LOCAL TRAFFIC REGULATIONS

1. PPR applies for school and training flights with repeated instrument approaches and TGL.

2. Restriktioner for skol- och övningsflygning

Start och landningsövningar, TGL, med motorflygplan med MTOM lägre än 2000 kg samt avancerad flygning får endast utföras:
MÅN-FRE 0600-2100 (0500-2000)
LÖR, SÖN och HOL 0800-1600 (0700-1500).

Start och landningsövningar, TGL, med motorflygplan med MTOM lägre än 2000 kg samt avancerad flygning får inte utföras långfredagen, påskafton, påskdagen, annandag påsk, Kristi himmelsfärdsdag, pingstafton, pingstdagen, midsommarafton, midsommardagen, Alla Helgons dag, julafton, juldagen och annadag jul.

3. Högervarv tillämpas till grässtråk 15.

4. Operatörer av kommersiell flygtransport (CAT) vid TROLLHÄTTAN-VÄNERSBORG flygplats med luftfartyg av ICAO kod C skall klassificera flygplatsen som kategori B, ref EASA AMC1 ORO.FC.105 (b) (2);(c), p.g.a. avvikelser från standardmått. Se ESGT 2–1.

2. Restrictions for school and trainingflights

Take-off and landing exercises, TGL, with aircraft with MTOM below 2000 kg and aerobatic flights are only permitted:
MON-FRI 0600-2100 (0500-2000)
SAT, SUN and HOL 0800-1600 (0700-1500).

Take-off and landing exercises, TGL, with aircraft with MTOM below 2000 kg and aerobatic flights are not permitted on Good Friday, Easter Eve, Easter Day, Easter Monday, Ascension Day, Whitsun Eve, Whitsun Day, Midsummers Eve, Midsummers Day, All Saints Day, Christmas Eve, Christmas Day and Boxing Day.

3. Right-hand traffic circuit applies for grass strip 15.

4. Commercial air transport (CAT) operators at TROLLHÄTTAN-VÄNERSBORG AD with ICAO code letter C aircraft shall classify the aerodrome as category B, ref EASA AMC1 ORO.FC.105 (b) (2);(c). This is due to the non-standard dimensions. See ESGT 2–1.

ESGT 2.21 MINSKNING AV BULLERSTÖRNING

1. Begränsningar för militärt registrerade luftfartyg:

- Verksamhet är tillåten 0600-1200 (0500-1100), förutom vid oförutsedda händelser.
- PPR skall inhämtas. För annan verksamhet än transportflygningar skall tillstånd inhämtas 14 dagar före flygning.
- Instrumentinflygningar utan landning får inte utföras.

2. Avgångar IFR RWY 15 och 33:
Stig rakt fram till 1500 ft AMSL innan sväng påbörjas.

3. APU får inte användas vid parkering vid andra tillfällen än då så krävs för motorstart eller för reglering av kabintemperatur. Därvid får APU startas tidigast 15 min före beräknad tid för taxning.

4. Reversering får endast användas med motorerna på tomgång vid landning mellan 2100-0500 (2000-0400) om detta ej krävs av säkerhetsskäl.

5. Provkörning av motorer får endast ske med ett flygplan åt gången.
Provkörning av motorer mellan 2100-0500 (2000-0400) får endast ske i samband med förestående start och inte med mer än ett flygplan åt gången.

NOISE ABATEMENT PROCEDURES

1. Limitations for military registered aircrafts:

- Operations are permitted 0600-1200 (0500-1100), except for unforeseen events.
- PPR is mandatory. For other than transportation-flights PPR shall be issued 14 days ahead of flight.
- Instrument approaches without landing are not permitted.

2. IFR departures RWY 15 and 33:
Climb straight ahead to 1500 ft AMSL until turn is initiated.

3. APU must not be used on parking unless required for engine start or adjustment of cabin heat. On these occasions the APU may be started not earlier than 15 min before estimated time for taxiing.

4. IDLE REVERSE shall only be used for landing between 2100-0500 (2000-0400) unless otherwise is required for flight safety reasons.

5. Test running of engines may only be carried out with one aircraft at the same time.
Test running of engines between 2100-0500 (2000-0400) may only be carried out in connection with take-off and with no more than one aircraft at the same time.

ESGT 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
15	Climb straight ahead to MNM turning ALT 900 ft. Continue climb to appropriate MSA.	CIO exist	-	-
33	Climb straight ahead to MNM turning ALT 600 ft. Continue climb to appropriate MSA.	CIO exist	-	-

2. Lågsiktsprocedurer (LVP) etablerade

LVP träder i kraft när bansynvidden (RVR) är lägre än 600 m eller när molntäckeshöjden eller vertikalsikten är lägre än 200 ft.

Meddelande om att LVP är i kraft lämnas av ATS.

Lägsta RVR för avgående trafik är 400 m. Lägsta RVR för avgående trafik är 300 m för operatörer med särskilt LVTO-tillstånd från behörig myndighet.

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

3. VFR-flygning inom Trollhättan TMA/CTR

Normala in- och utpasseringspunkter
Se ESGT 6–1

Väntlägen
Se ESGT 6–1

Avbrott i radioförbindelse
Se ESGT 6–1

2. Low visibility procedures (LVP) established

LVP will be in force when RVR is below 600 m or when ceiling or vertical visibility is below 200 ft.

The application of LVP will be announced by ATS.

Minimum RVR for departing traffic is 400 m. Minimum RVR for departing traffic is 300 m with LVTO approval from competent authority.

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

3. VFR flight within Trollhättan TMA/CTR

Normal entry and exit points
See ESGT 6–1

Holdings
See ESGT 6–1

Communication failure
See ESGT 6–1

ESGT 2.23 ÖVRIG INFORMATION

1. Reducerad banseparation

Reducerad banseparation tillämpas för luftfartyg med MTOM 2000 kg enligt AIP AD 1.1 mom 10.

2. Medgivanden från krav i CS-ADR-DSN:

- Delar av stråket uppfyller inte kravställd stråkbredd.
- RDH RWY 15: 42 ft / RDH RWY 33: 40 ft.
- Centrumlinjeljus finns ej.

ADDITIONAL INFORMATION

1. Reduced runway separation

Reduced runway separation is applied to aircraft with MTOM 2000 kg in accordance with AIP AD 1.1 para 10.

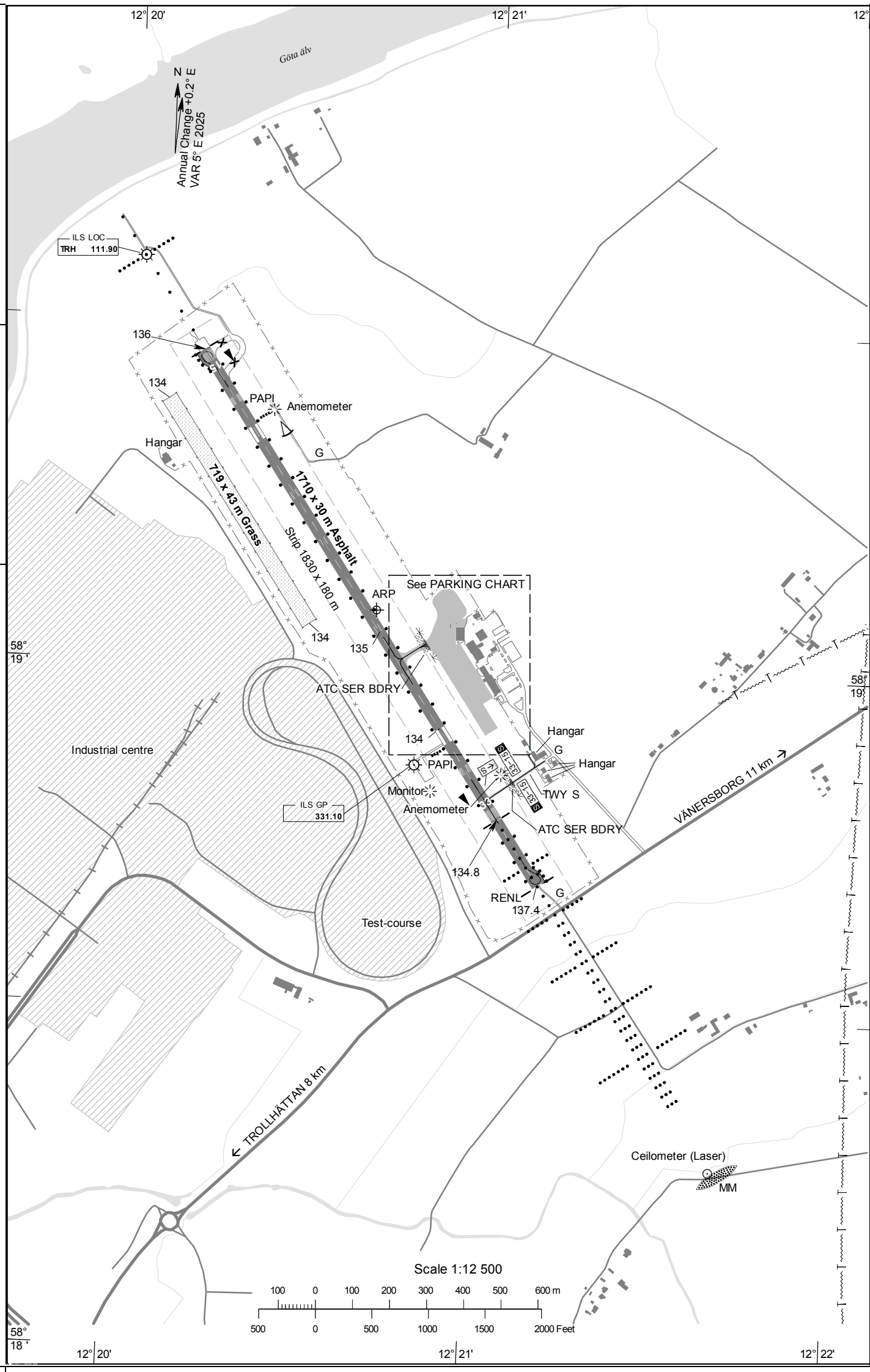
2. Granted exemptions from requirement in CS-ADR-DSN:

- Parts of runway strip is non standard.
- RDH RWY 15: 42 ft / RDH RWY 33: 40 ft.
- No runway centre line lights.

ESGT 2.24 TILLHÖRANDE KARTOR

RELATED CHARTS

AD chart		ESGT 2-1
AOC	RWY 15/33	ESGT-3-1
Area chart		See **ESGG 4-1**
List of waypoints and significant points		ESGT 4-3
ATC Surveillance Minimum ALT chart		ESGT 4-91
IAC	ILS or LOC RWY 33	ESGT 5-1
IAC	NDB RWY 33	ESGT 5-2
IAC	NDB RWY 15	ESGT 5-3
IAC	RNP RWY 15	ESGT 5-5
IAC	RNP RWY 33	ESGT 5-9
VAC		ESGT 6-1



ARP 581905N 0122042E

AD ELEV 137 FEET

LEGEND See GEN 2.3

Dimensions in m, ELEV in ft

REMARK:
Threshold RWY 33 displaced 209 m.
For RWY strip dimensions see AD 2.23.

TWY NR	WIDTH	Surface Bearing Strength	Day marking	Taxiway lighting	
			Centerline Holding	Edge Centerline	RGL Stopbar
M	15 m	ASPH PCN 15 F/C/X/T	CL HLDG	EDGE	RGL
S	7 m	ASPH PCN 8 F/C/Y/T	CL HLDG		RGL

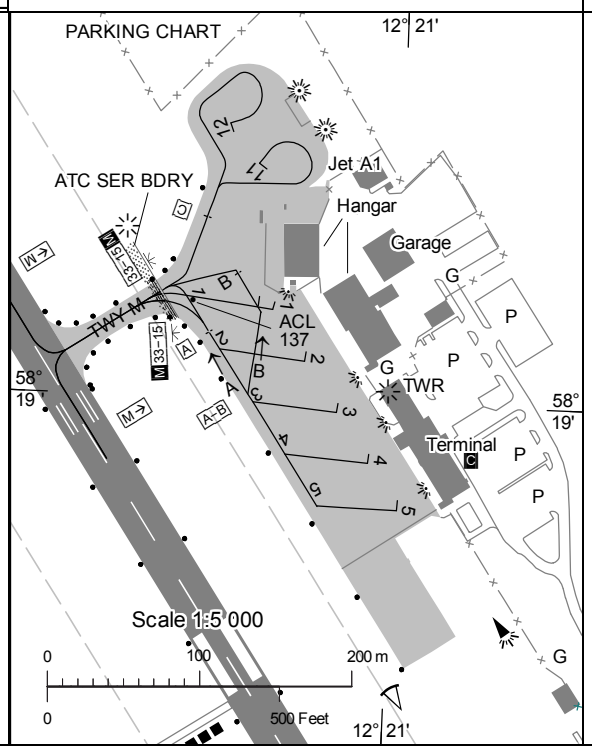
INS Coordinates for Aircraft Stands			
APRON Surface Bearing Strength	NR	COORD	ELEV
ASPH PCN 15 F/C/X/T	1 2 3 5	581901.92N 122054.93E 581900.85N 122056.30E 581859.78N 122057.68E 581857.75N 122100.27E	134.3 133.8 133.6 133.0
ASPH PCN 18 F/C/X/T	4 11 12	581858.73N 122059.02E 581905.01N 122054.18E 581905.84N 122052.95E	133.6 135.3 135.4

Stands 1 for acft of max span 18 m
Stand 2-5 for acft of max span 30 m
Stand 11-12 for acft of max span 26 m

CHANGE: VAR, ATC SER BDRY

TWR 122.730

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
15	146.07° GEO 141° MAG	581927.26N 0122011.78E GUND 113 ft END RWY: 581841.41N 0122110.38E	PCN 18 F/C/X/T	THR 136 ft	1710	1710	1710	1710	SALS 420 m LIL/LIH	THR Green	PAPI Left/3.00° (41.9 ft)	1710/60 m White Caution zone 600 m yellow LIL/LIH	Red
33	326.08° GEO 321° MAG	581847.00N 0122103.24E GUND 113.4 ft	PCN 18 F/C/X/T	THR 134.8 ft TDZ 135 ft	1710	1710	1710	1501	Calvert Cat I 900 m LIL/LIH	THR Green	PAPI Left/3.00° (41.7 ft)	1710/60 m White Caution zone 600 m yellow LIL/LIH	Red

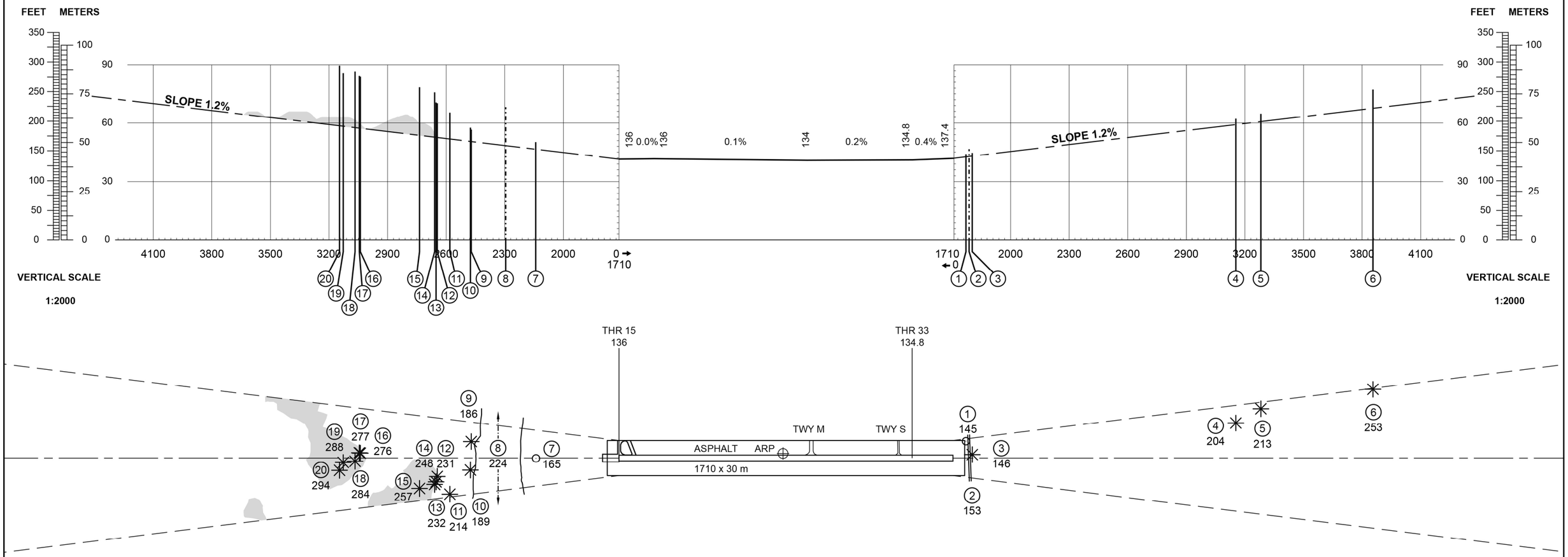


DIMENSIONS IN METRES ELEVATIONS IN FEET	**AERODROME OBSTACLE CHART-ICAO** TYPE A-OPERATING LIMITATIONS	**TROLLHÄTTAN-VÄNERSBORG** **SWEDEN**	**AD 2-ESGT-3-1** **RWY 15/33**

AERODROME ELEVATION 137 FEET
MAGNETIC VARIATION 5° E 2025

RUNWAY BEARINGS
15 = GEO 146.27°; MAG 141°
33 = GEO 326.08°; MAG 321°

RWY 15	DECLARED DISTANCES	RWY 33
1710	TAKE-OFF RUN AVAILABLE	1710
1710	TAKE-OFF DISTANCE AVAILABLE	1710
1710	ACCELERATE STOP DIST. AVAILABLE	1710
1710	LANDING DISTANCE AVAILABLE	1501



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

LEGEND

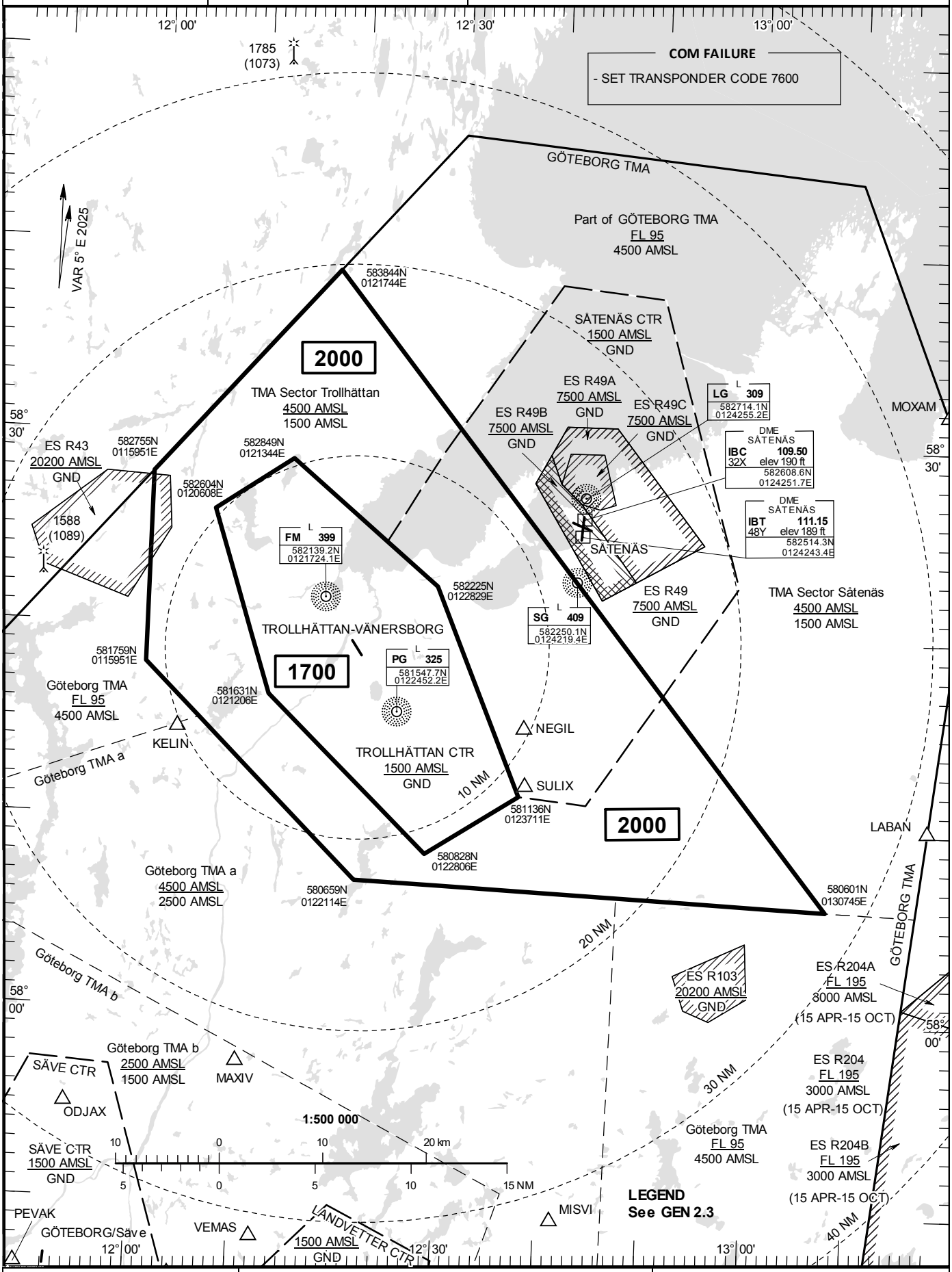
IDENTIFICATION NUMBER	①
POLE, TOWER, SPIRE, ANTENNA, ETC.	○
TREE OR SHRUB	✳
TERRAIN PENETRATING OBSTACLE PLANE	
MARITIME ROUTE AND ROAD TRAFFIC IN PROFILE	

LFV		CHANGE: VAR, Editorial	AIRAC AMDT 6/2023

ESGT-AOC 15/33
02 NOV 2023

ATC Surveillance Minimum Altitude Chart – TROLLHÄTTAN-VÄNERSBORG

AD ELEV 137 FEET **HGT and ALT in ft** **TA 5000 AMSL**	**TROLLHÄTTAN TOWER 122.730**	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

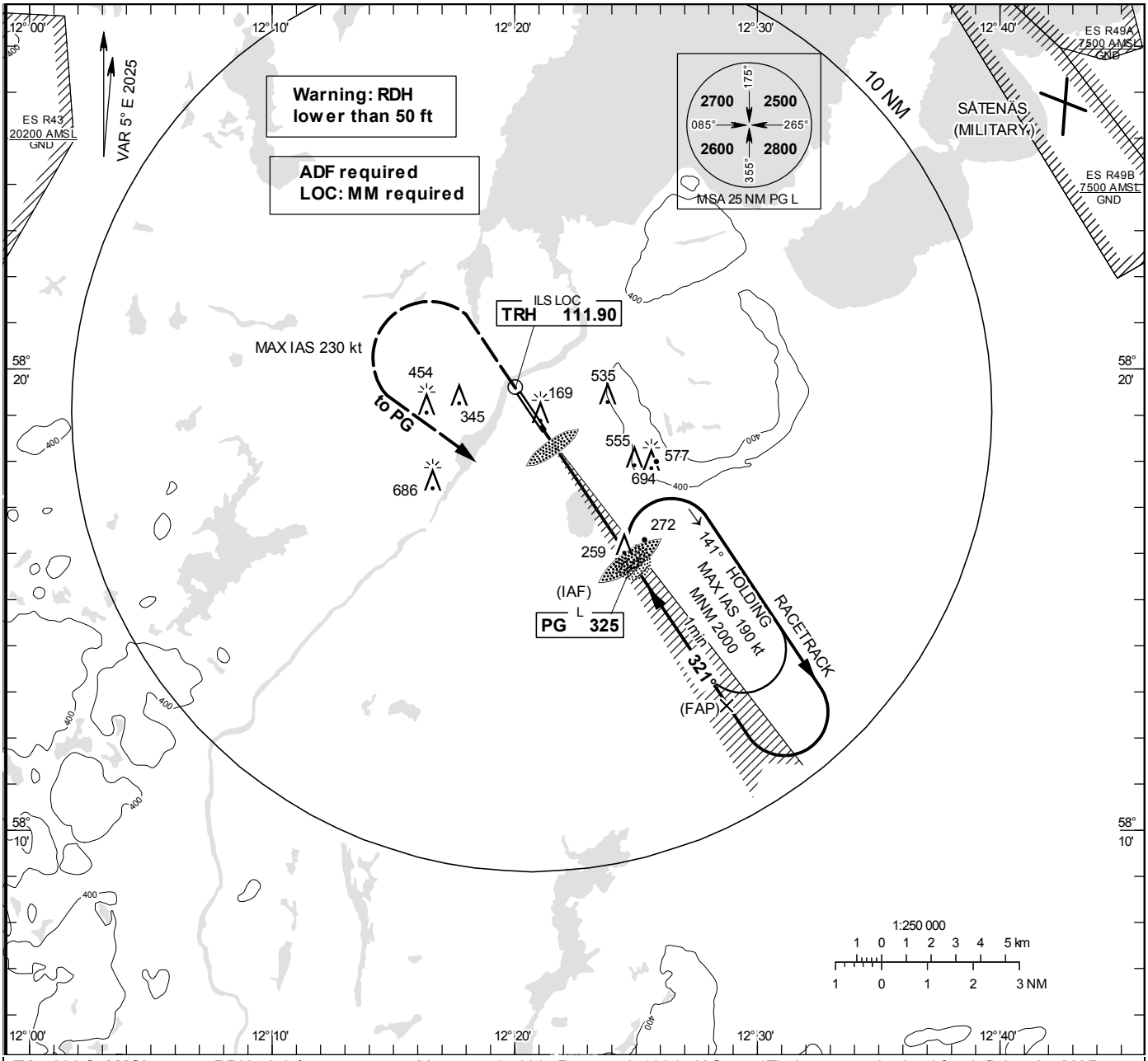


INSTRUMENT APPROACH CHART – ICAO

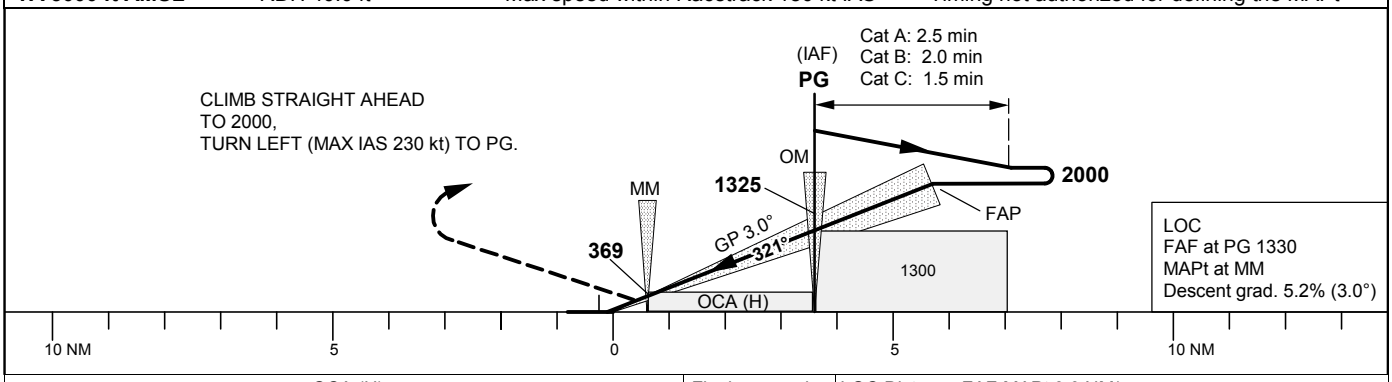
THR ELEV 134.8 ft, AD ELEV 137 ft
OCH are related to THR.
Circling OCH are related to AD ELEV.
BRG are MAG
ALT. HGT and ELEV in ft.

TROLLHÄTTAN TOWER 122.730

ILS or LOC RWY 33



TA 5000 ft AMSL RDH 40.0 ft Max speed within Racetrack 180 kt IAS *Timing not authorized for defining the MAPt



OCA (H)				
Cat of ACFT		A	B	C
Straight-in Approach	Cat I	288 (153)	298 (163)	308 (173)
	LOC	520 (390)		
Circling		830 (700)	880 (750)	1090 (960)
Circling SW RWY		650 (520)	750 (620)	1080 (950)

Final approach	LOC Distance FAF-MAPt 3.0 NM*					
GS	kt	80	100	120	140	160
Time	min/s	2:15	1:48	1:30	1:17	1:08
Rate of descent	ft/min	425	530	635	745	850

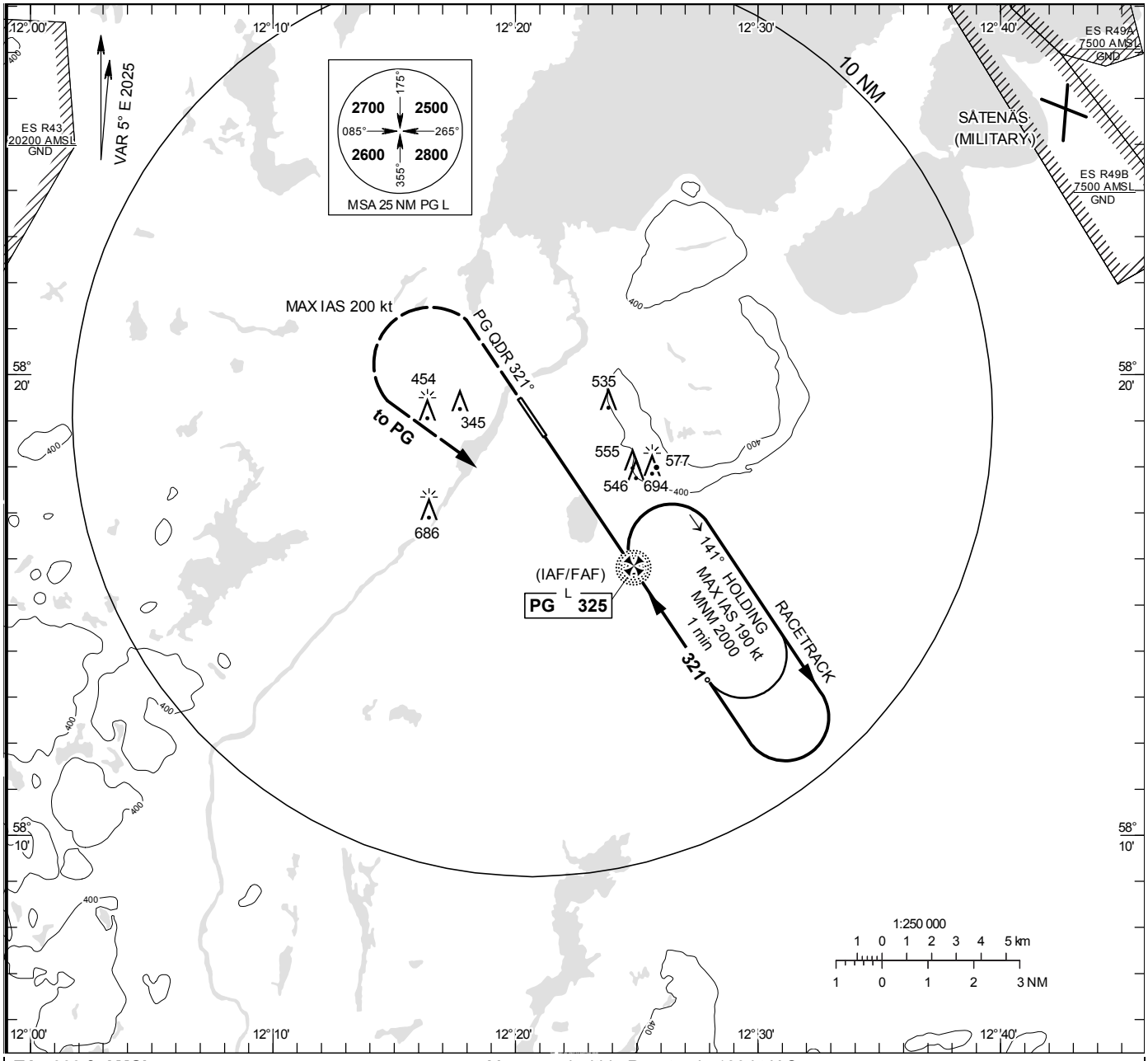
CHANGE: Name. VAR, obst, Holding MAX IAS, Racetrack, MOCA, OCA, LOC FAF, missed apch MAX IAS, table, editorial. ES R43 ELEV

NDB RWY 33

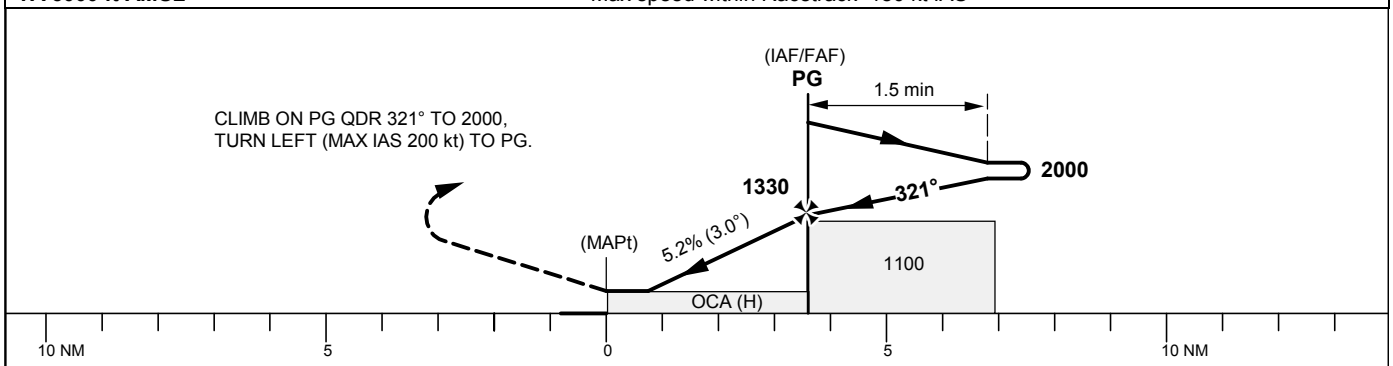
TROLLHÄTTAN TOWER 122.730

THR ELEV 134.8 ft, AD ELEV 137 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 180 kt IAS



OCA (H)			
Cat of ACFT	A	B	C
Straight-in Approach	670 (540)		
Circling	830 (700)	880 (750)	1090 (960)
Circling SW RWY	670 (540)	750 (620)	1080 (950)

Final approach	Distance FAF-MAPt 3.6 NM					
GS	kt	80	100	120	140	160
Time	min:s	2:42	2:10	1:48	1:33	1:21
Rate of descent	ft/min	425	530	635	745	850

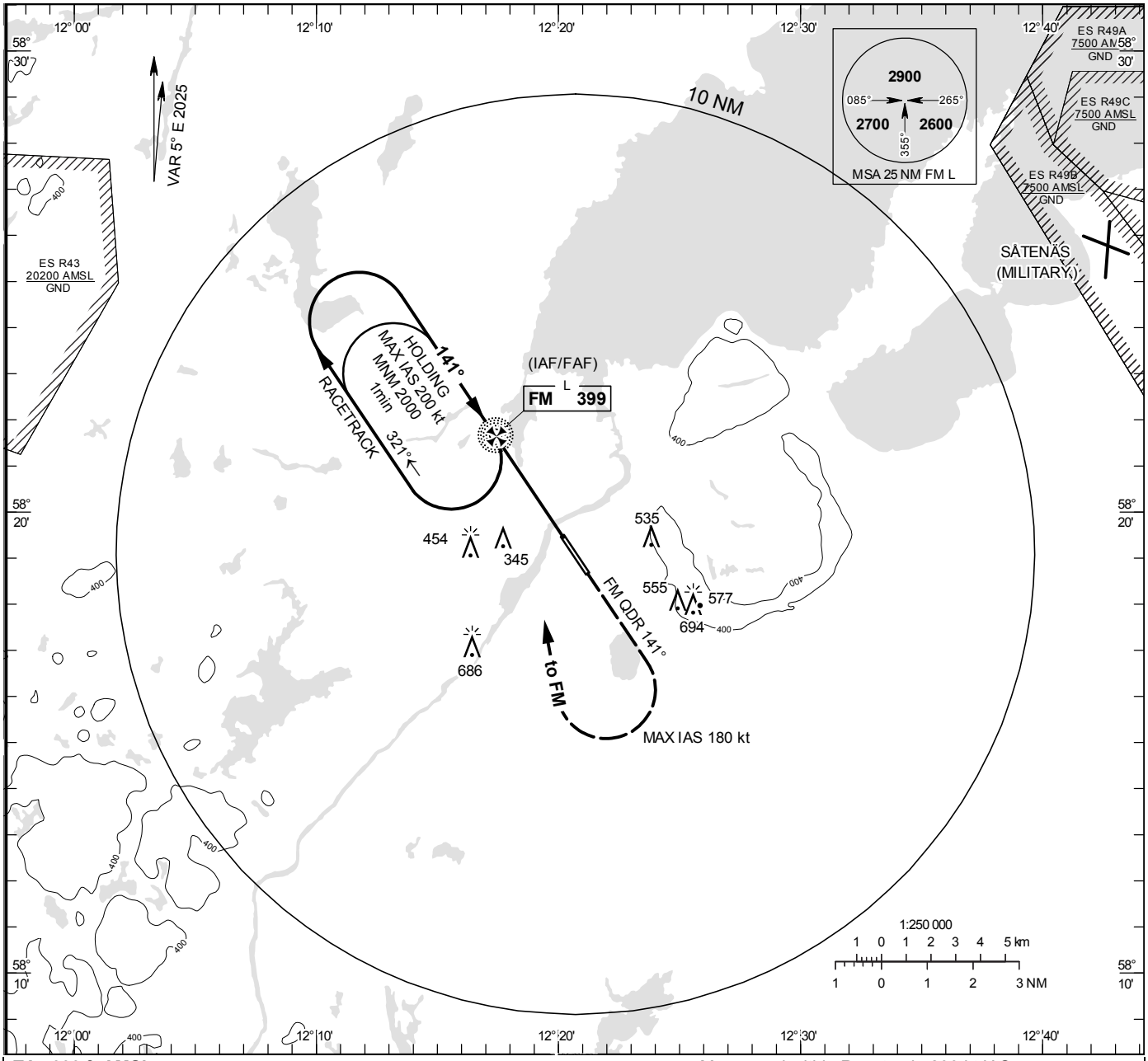
CHANGE: VAR, obst, Holding MAX IAS, Racetrack IAS MAX, MOCA, OCA, Missed apch, table, ES R43 ELEV, editorial

INSTRUMENT APPROACH CHART – ICAO

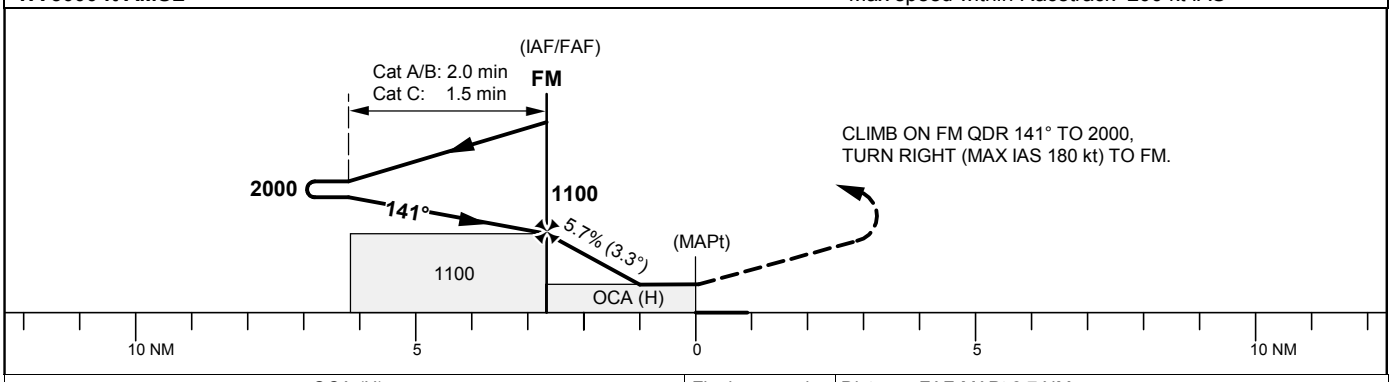
THR ELEV 136 ft, AD ELEV 137 ft
OCH are related to THR.
Circling OCH are related to AD ELEV.
BRG are MAG
ALT. HGT and ELEV in ft.

TROLLHÄTTAN TOWER 122.730

NDB RWY 15



TA 5000 ft AMSL Max speed within Racetrack 200 kt IAS



OCA (H)				Final approach	Distance FAF-MAPt 2.7 NM					
Cat of ACFT	A	B	C	GS	kt	80	100	120	140	160
Straight-in Approach	650 (520)			Time	min:s	1:59	1:35	1:20	1:08	1:00
Circling	830 (700)	880 (750)	1090 (960)	Rate of descent	ft/min	460	575	690	805	920
Circling SW RWY	650 (520)	750 (620)	1080 (950)							

Reverse side intentionally blank

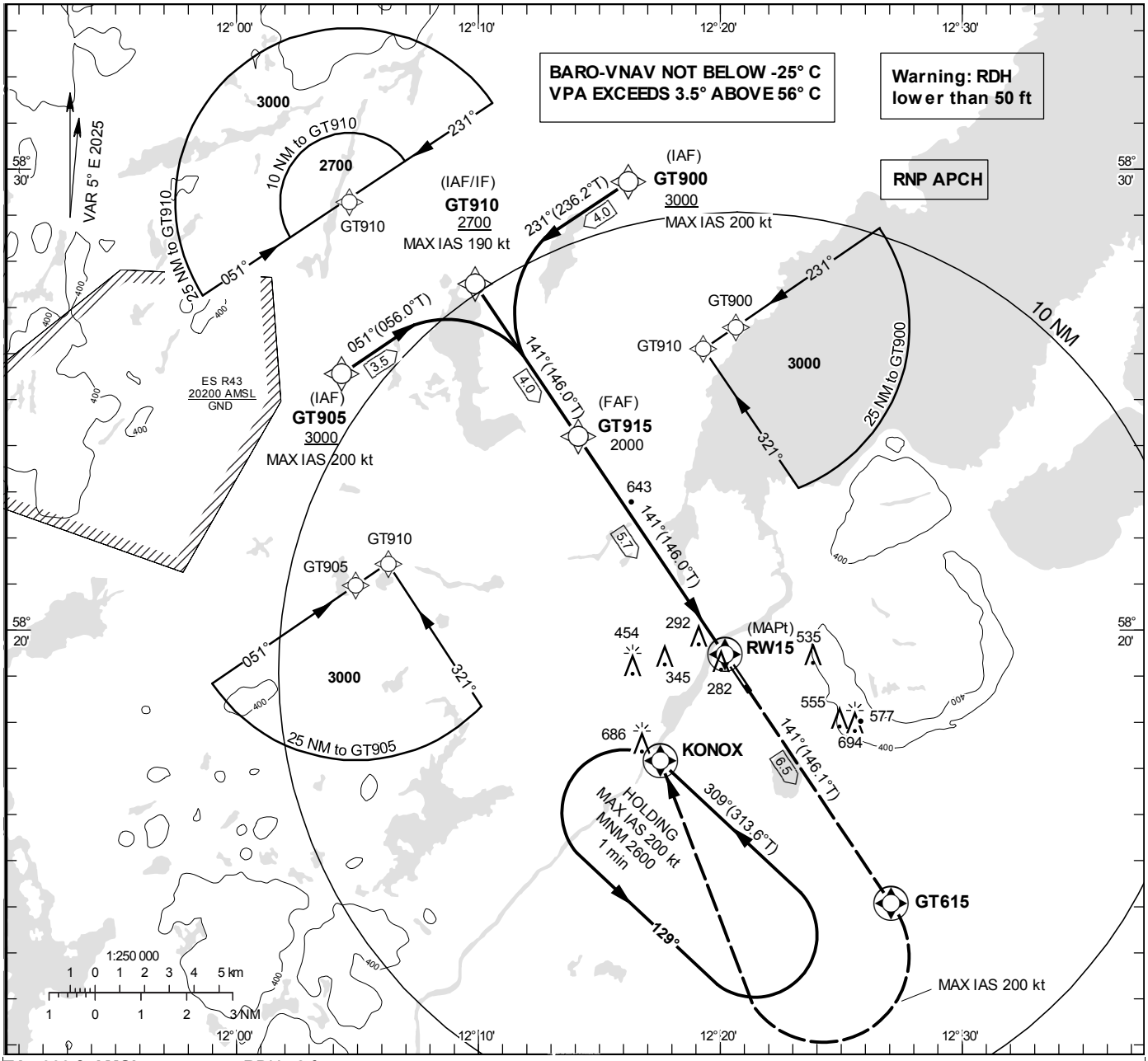
INSTRUMENT APPROACH CHART – ICAO

THR ELEV 136 ft, AD ELEV 137 ft
OCH are related to THR.
BRG are MAG (True).
ALT, HGT and ELEV in ft.

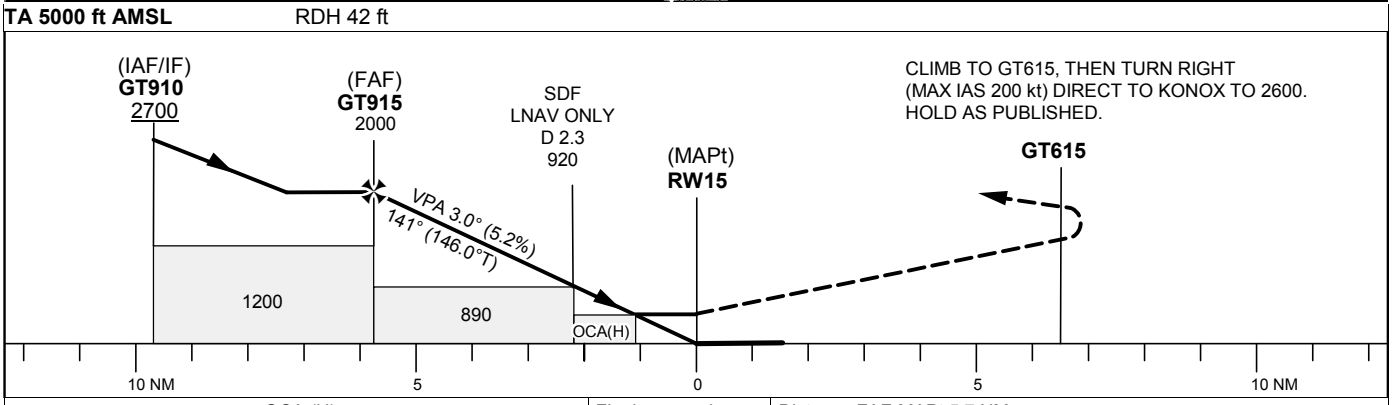
TROLLHÄTTAN TOWER 122.730

RNP RWY 15

EGNOS Ch 54114 E 15A



TA 5000 ft AMSL RDH 42 ft



OCA (H)				Final approach	Distance FAF-MAPt 5.7 NM					
Cat of ACFT	A	B	C	Dist to RWY15	5		4	3		2
LPV	413 (277)	425 (289)	433 (297)	ALT	1770		1450	1130		810
LNAV/VNAV	422 (286)	435 (299)	443 (307)	GS	kt	80	100	120	140	160
LNAV	540 (410)			Rate of descent	ft/min	425	530	635	745	850
Circling	830 (700)	880 (750)	1090 (960)							
Circling SW RWY	650 (520)	750 (620)	1080 (950)							

CHANGE: VAR, obst, MAX IAS, SDF, MOCA, OCA, BARO-VNAV MAX and MNM temp, table, coding, ES R43 ELEV, editorial

RNP RWY15 via GT905

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude (ft)	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
IF	GT905	-	-	-	-	+3000	-200	-	-	RNP APCH
TF	GT910	-	051° (056.0°)	3.5	-	-	-	-	-	RNP APCH

RNP RWY15 via GT900

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude (ft)	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
IF	GT900	-	-	-	-	+3000	-200	-	-	RNP APCH
TF	GT910	-	231° (236.2°)	4.0	-	-	-	-	-	RNP APCH

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude (ft)	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
TF	GT910	-	-	-	-	+2700	-190	-	-	RNP APCH
TF	GT915	-	141° (146.0°)	4.0	-	@2000	-	-	-	RNP APCH
TF	RW15	Y	141° (146.0°)	5.7	-	@178	-	-3.0/42	-	RNP APCH
TF	GT615	Y	141° (146.1°)	6.5	-	-	-	-	-	RNP APCH
DF	KONOX	Y	-	-	R	+2600	-200	-	-	RNP APCH

ESGT Holding KONOX

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude (ft)	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
HM	KONOX	Y	309° (313.6°)	-	L	+2600	-200	-	-	RNAV 1

FAS Data Block **RNP RWY 15**

Input data

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	ESGT
Runway	15
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E15A
LTP/FTP Latitude	581927.2570N
LTP/FTP Longitude	0122011.7795E
LTP/FTP Ellipsoidal Height (metres)	76.0
FPAP Latitude	581841.4060N
Delta FPAP Latitude (seconds)	-45.8510
FPAP Longitude	0122110.3760E
Delta FPAP Longitude (seconds)	58.5965
Threshold Crossing Height	42.0
TCH Units Selector	0 (feet)
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	50.0

Output data

Data Block	10 14 07 13 05 0F 00 00 01 35 31 05 32 B1 07 19 07 57 4B 05 F8 16 CA 99 FE C9 C9 01 A4 01 2C 01 64 00 C8 FA ED A6 B6 31
Calculated CRC Value	EDA6B631

Required Additional Data

ICAO Code	ES
LTP/FTP Orthometric Height (metres)	41.4

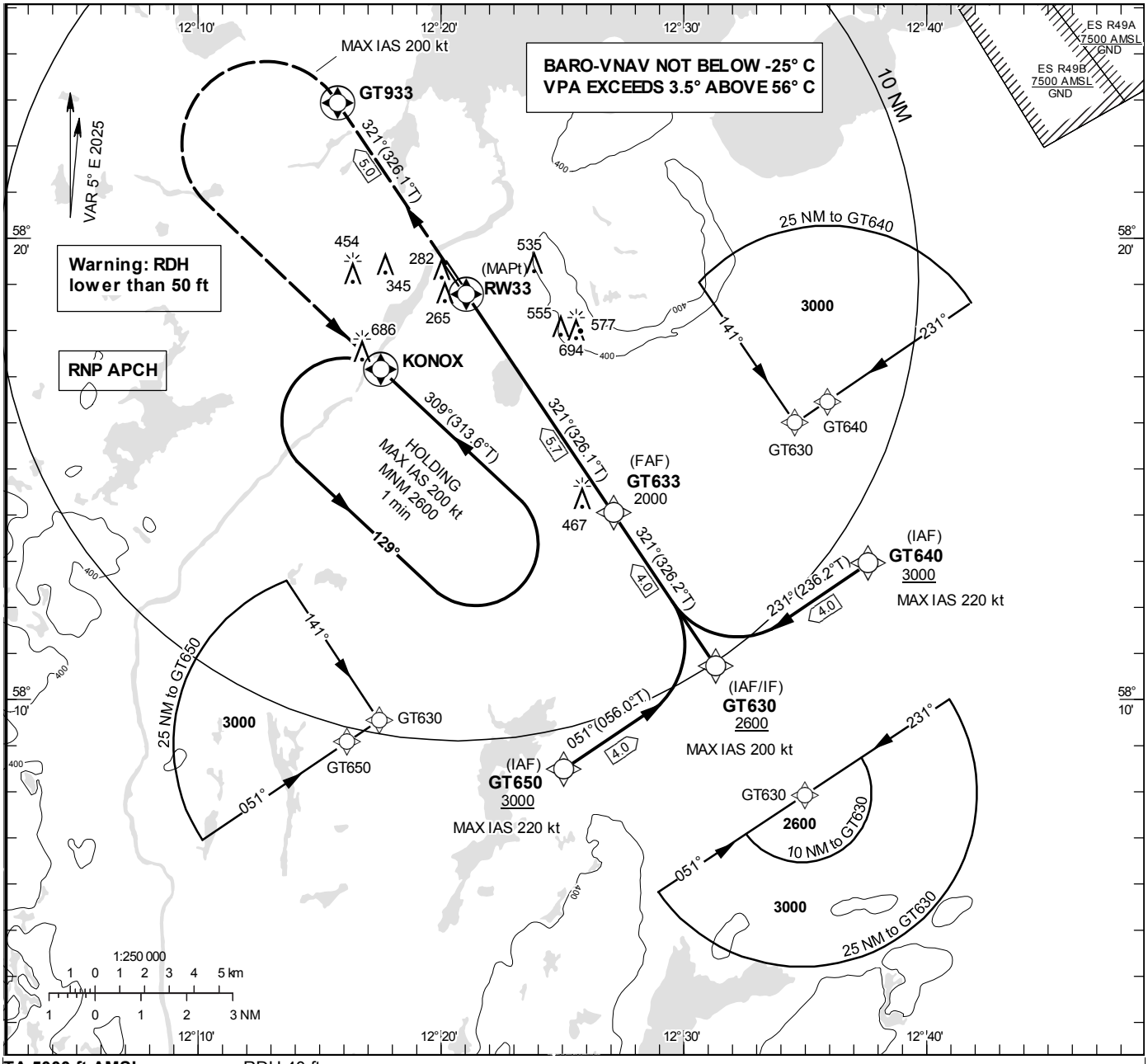
INSTRUMENT APPROACH CHART – ICAO

THR ELEV 134.8 ft, AD ELEV 137 ft
OCH are related to THR.
BRG are MAG (True).
ALT, HGT and ELEV in ft.

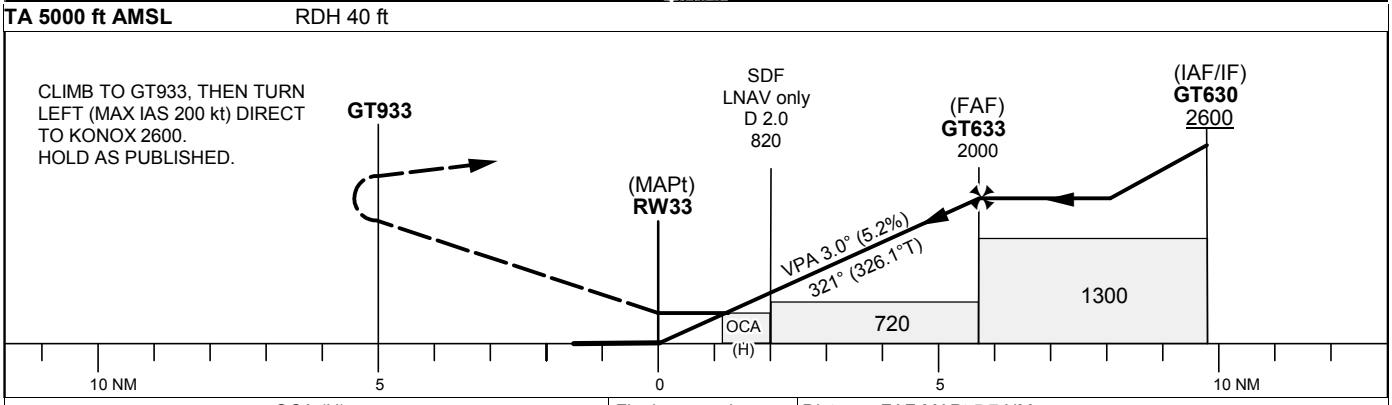
TROLLHÄTTAN TOWER 122.730

RNP RWY 33

EGNOS Ch 57705 E 33A



TA 5000 ft AMSL RDH 40 ft



OCA (H)				Final approach	Distance FAF-MAPt 5.7 NM					
Cat of ACFT	A	B	C	Dist to RWY33	2		3	4		5
LPV	413 (279)	425 (291)	433 (299)	ALT	810		1130	1450		1770
LNAV/VNAV	395 (261)	408 (274)	433 (299)	GS	kt	80	100	120	140	160
LNAV	520 (390)			Rate of descent	ft/min	425	530	635	745	850
Circling	830 (700)	880 (750)	1090 (960)							
Circling SW RWY	650 (520)	750 (620)	1080 (950)							

RNP RWY33 Via GT640

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude (ft)	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
IF	GT640	-	-	-	-	+3000	-220	-	-	RNP APCH
TF	GT630	-	231° (236.2°)	4.0	-	-	-	-	-	RNP APCH

RNP RWY33 Via GT650

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude (ft)	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
IF	GT650	-	-	-	-	+3000	-220	-	-	RNP APCH
TF	GT630	-	051° (056.0°)	4.0	-	-	-	-	-	RNP APCH

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude (ft)	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
TF	GT630	-	-	-	-	+2600	-200	-	-	RNP APCH
TF	GT633	-	321° (326.2°)	4.0	-	@2000	-	-	-	RNP APCH
TF	RW33	Y	321° (326.1°)	5.7	-	@175	-	-3.0/40	-	RNP APCH
TF	GT933	Y	321° (326.1°)	5.0	-	-	-	-	-	RNP APCH
DF	KONOX	Y	-	-	L	+2600	-200	-	-	RNP APCH

ESGT Holding KONOX

Path Desc	Waypoint Identifier	Fly-over	Course °M(°T)	Dist (NM)	Turn Dir	Altitude (ft)	Speed	VPA/ RDH	Rec Navaid	Navigation Specification
HM	KONOX	Y	309° (313.6°)	-	L	+2600	-200	-	-	RNAV 1

FAS Data Block RNP RWY 33

Input data

Operation Type	0
SBAS Provider	1
Airport Identifier	ESGT
Runway	33
Runway Direction	0
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E33A
LTP/FTP Latitude	581847.0030N
LTP/FTP Longitude	0122103.2365E
LTP/FTP Ellipsoidal Height (metres)	75.6
FPAP Latitude	581927.2570N
Delta FPAP Latitude (seconds)	40.2540
FPAP Longitude	0122011.7795E
Delta FPAP Longitude (seconds)	-51.4570
Threshold Crossing Height	40.0
TCH Units Selector	0
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	50.0

Output data

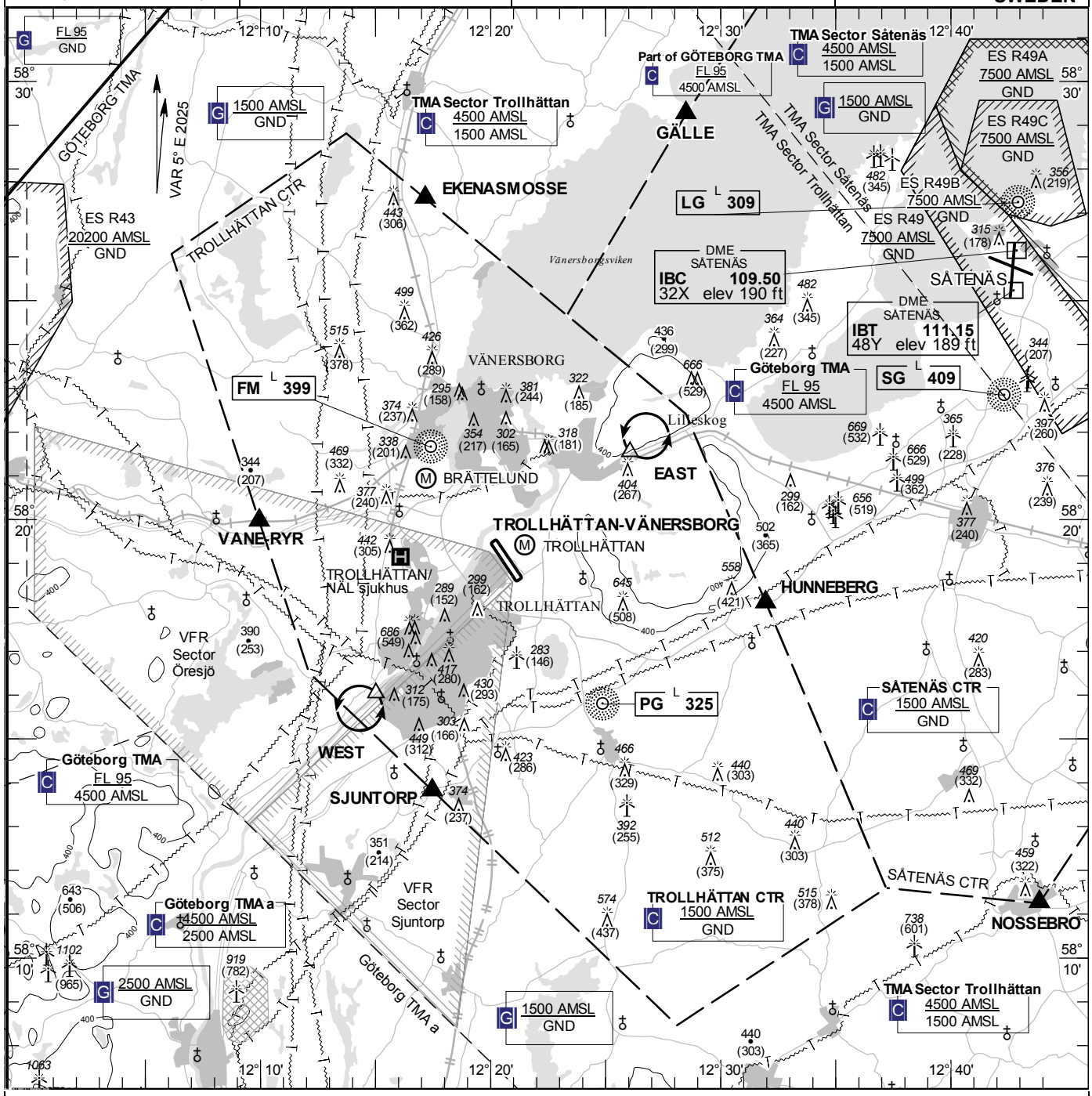
Data Block	10 14 07 13 05 21 00 00 01 33 33 05 B6 76 06 19 09 E9 4C 05 F4 16 7C 3A 01 FE 6D FE 90 01 2C 01 64 00 C8 FA 82 33 53 7A
Calculated CRC Value	8233537A

Required Additional Data

ICAO Code	ES
LTP/FTP Orthometric Height (metres)	41.1

Reverse side intentionally blank

VISUAL APPROACH CHART – ICAO	AD ELEV 137 FEET	TROLLHÄTTAN TOWER 122.730	AD 2 ESGT 6-1
1:250000	ELEV and ALT in ft HGT in ft above AD ELEV		TROLLHÄTTAN-VÄNERSBORG SWEDEN
	TA 5000 AMSL		



Communication failure

1. SQUAWK 7600
2. Enter CTR via VANE-RYR/SJUNTORP – Holding WEST or via EKENASMOSSE/ HUNNEBERG – Holding EAST at or below 1500 ft AMSL to traffic circuit. Transmit blind your intentions.
3. Flash LDG-lights and watch TWR for optical signals.

Remark

VFR sectors open for gliding activity

RWY NR	THR ELEV	PAPI (MEHT)
15	136 ft	Left/3.00° (42 ft)
33	134.8 ft	Left/3.00° (42 ft)

Legend

See GEN 2.3

Entry / exit point

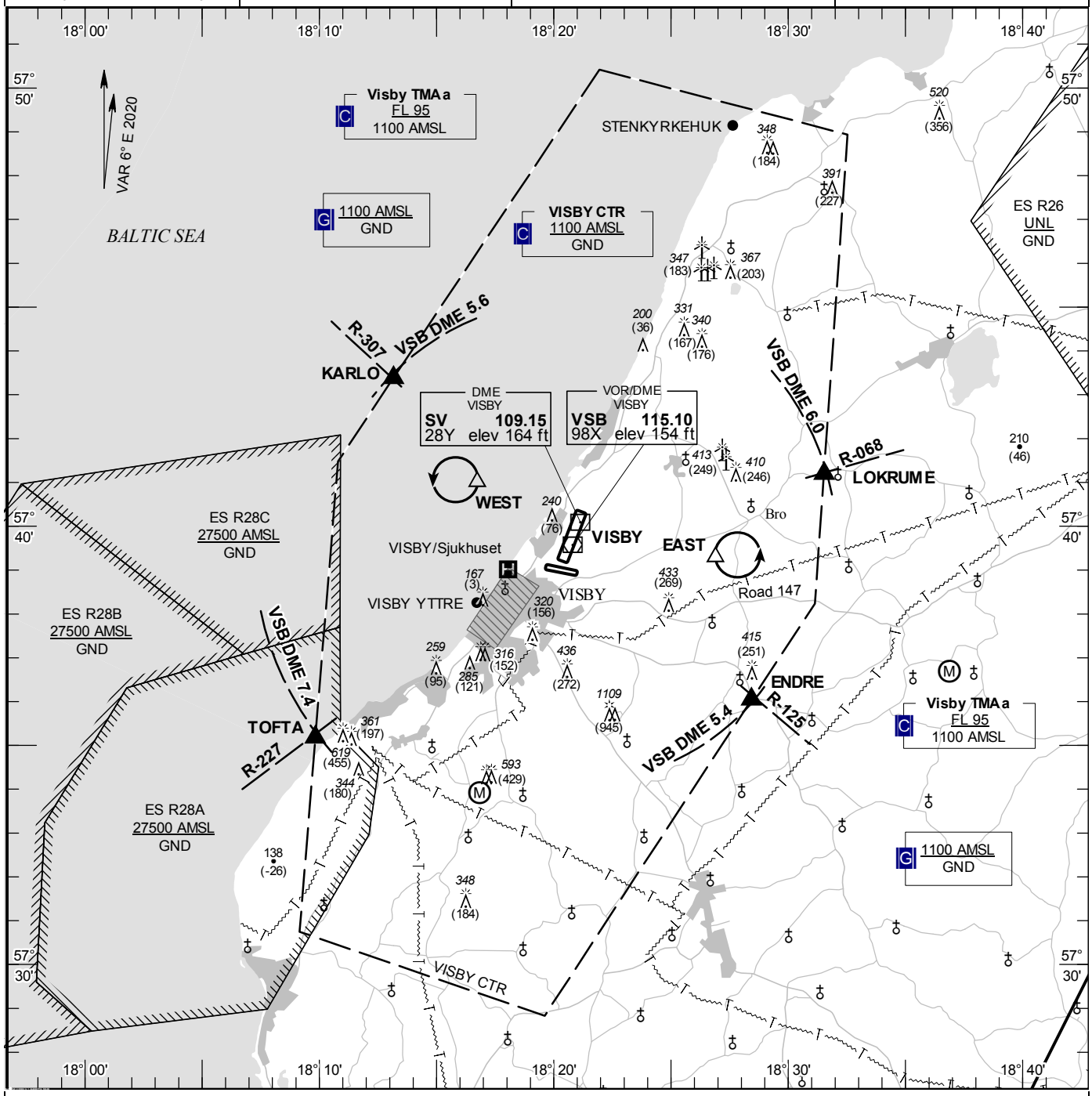
EKENASMOSSE	582720N 0121710E
HUNNEBERG	581806N 0123157E
SJUNTORP	581349N 0121728E
VANE-RYR	581958N 0120957E

Holding

EAST: Hold at Lilleskog, north east of point 582131N 0122604E

WEST: Hold at water locks, south west of point 581601N 0121501E

VISUAL APPROACH CHART – ICAO 1:250000 1 0 1 2 3 4 5 km 1 0 1 2 3 NM	AD ELEV 164 FEET ELEV and ALT in ft HGT in ft above AD ELEV TA 5000 AMSL	VISBY TOWER 120.305 VISBY APPROACH 126.155	AD 2 ESSV 6-1 VISBY SWEDEN



Communication failure

1. SQUAWK 7600
2. Enter CTR via KARLO/TOFTA – Holding WEST or via ENDRE/LOKRUME – Holding EAST at or below 1000 ft AMSL to traffic circuit. Transmit blind your intentions.
3. Flash LDG-lights and watch TWR for optical signals.

Remark

Noise sensitive area should be avoided below 2000 ft AMSL

RWY NR	THR ELEV	PAPI (MEHT)
03	140 ft	Left/3.00° (56 ft)
21	137.0 ft	Left/3.00° (62 ft)

Legend

See GEN 2.3

Entry / exit point

KARLO	574322N 0181310E
LOKRUME	574111N 0183132E
ENDRE	573602N 0182826E
TOFTA	573510N 0180950E

Holding

EAST: Hold north of road 147 and south of BRO church, east of point 573917N 0182654E

WEST: Hold 3NM WNW of the aerodrome over the sea, west of point 574100N 0181643E

AD 2 AERODROMES

ESTA 2.1 AERODROME LOCATION INDICATOR AND NAME

ESTA – ÄNGELHOLM

ESTA 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	ARP coordinates and site at AD	561728N 0125118E RWY 14/32 centre point
2.	Direction and distance from (city)	N 4 NM from Ängelholm
3.	Elevation/Reference temperature	62 ft/+22.2°C
4.	Geoid undulation at AD ELEV PSN	121 ft
5.	MAG VAR/Annual change	4° E 2020/+0.2 increasing
6.	Administration, address, telephone, fax, AFS	Ängelholms flygplats AB Ängelholm Helsingborg Airport SE-262 91 Ängelholm TEL: +46 (0)431 48 45 00 FAX: +46 (0)431 48 45 10 E-mail: info@aghairport.se AFS: ESTAZTZX Website: www.aghairport.se
7.	Types of traffic permitted (IFR/VFR)	IFR/VFR. Max RWY ref code 4C
8.	Remarks	PPR outside TWR hours. Request shall be made during AD Administration hours. Mail: ok@aghairport.se.

ESTA 2.3 OPERATIONAL HOURS

1.	AD Administration AD Operating hours	MON-FRI 0700-1500 (0600-1400) As ATS
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	O/R
11.	De-Icing	As ATS
12.	Remarks	Increased charges outside AD Operating HR of OPS

ESTA 2.4 HANDLING SERVICES AND FACILITIES

1.	Cargo-handling facilities	-
2.	Fuel/oil types	Fuel UL 91, Jet A1 Oil -
3.	Fuelling facilities/discharge capacity	UL 91: 10,000 l stationary Jet A1: 100,000 l fuel truck
4.	De-icing facilities	Available Type I and II, mobile unit
5.	Hangar space for visiting ACFT	-
6.	Repair facilities for visiting ACFT	-
7.	Remarks	Fuel supplier: AirBP

ESTA 2.5 PASSENGER FACILITIES

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

ESTA 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	CAT 6. For commercial traffic exceeding 2500 kg MTOW 180 sec, other traffic 8 min.
2.	Rescue equipment	By arrangement
3.	Capability for removal of disabled aircraft	By arrangement, contact operational coordinator +46 (0)70 868 70 53.
4.	Remarks	-

ESTA 2.7 SEASONAL AVAILABILITY – CLEARING

1.	Types of clearing equipment	Snowploughs, blowers, sweepers, spreaders
2.	Clearance priorities	RWY, TWY, Apron
3.	Remarks	RWY de-iced/anti-iced with KFOR

DECLARED DISTANCES TAKE-OFF INTERSECTIONS						
RWY	INTERSECTION	TORA (m)	TODA (m)	ASDA (m)		Remarks
1		2	3	4	5	6
14	TWY A	1393	1393	1393	-	-
32	TWY F	1848	2053	1848	-	-

ESTA 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 900 m LIH	Green	PAPI Left/3.00° (37.4 ft)	-	-	1945/60 m White Caution zone 600 m yellow LIH	Red	-
32	SALS 420 m LIH	Green	PAPI Left/3.00° (54.1 ft)	-	-	1945/60 m White Caution zone 600 m yellow LIH	Red	-

10 Remarks: -

ESTA 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 left side, No light. Windsock N of TWY M, lighted 400 m S THR 14 and 280 m N THR 32
3.	TWY edge and centre line lighting	Edge: TWY A, C, F, G CL: -
4.	Secondary power supply/switch-over time	Available/1 sec
5.	Remarks	-

ESTA 2.16 HELICOPTER LANDING AREA

RWY 14/32 to be used

ESTA 2.17 ATS AIRSPACE

1.	Designation and lateral limits	ÄNGELHOLM CTR	562721N 0124021E - 562259N 0130320E - 561300N 0130602E - 560930N 0130004E - 561244N 0124651E - 561459N 0124251E - 562258N 0123255E - 562721N 0124021E
2.	Vertical limits	ÄNGELHOLM CTR	1500 ft AMSL / GND
3.	Airspace classification	C	
4.	ATS unit call sign Language(s)	ÄNGELHOLM TOWER Swedish/English	
5.	Transition altitude	5000 ft AMSL	
6.	Remarks	CTR established during hours of TWR.	

ESTA 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	ÄNGELHOLM TOWER	127.105	HO	Primary channel
		121.500	HO	-
APP	ÄNGELHOLM APPROACH	132.455	HO	-

ESTA 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 II (4° E 2020)	DB	111.30 MHz	H24 *	561657.7N 0125212.4E		380 m beyond THR 32 ILS Class II/D/3
GP		332.30 MHz	H24 *	561747.5N 0125057.1E		Angle 3.0° RDH 50.9 ft 317 m past THR 14 left side
L 14	LB	370.5 kHz	H24 *	562047.6N 0124558.9E		Range 25 NM
L 32	AH	417 kHz	H24 *	561558.2N 0125402.7E		Range 15 NM
DME	DB	111.30 MHz	H24 *	561747.6N 0125057.3E	82 ft	DME channel 50X

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

ESTA 2.20 LOKALA TRAFIKFÖRESKRIFTER

1. Dagligen mellan 2100 och 0500 (2000–0400) får flygplatsen inte trafikeras med flygplan certifierade enligt ICAO Annex 16, Volume I, Part II, Chapter 2.

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. Upprepade instrumentinflygningar samt TGL tillåts under följande tider:
MON–THU 0730–1900 (0630–1800)
FRI 0730–1600 (0630–1500)
SAT, SUN, HOL 0900–1600 (0800–1500)

3. På parkeringsplats får APU användas endast när så krävs för motorstart eller för reglering av kabinvärme. APU får därvid inte startas tidigare än 15 min före beräknad tid för taxning.

4. IFR-trafik ska vara redo för motorstart när start-up begärs från ATC.

5. Uppgift om transponderkod lämnas under uttaxning.

6. 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 127.105.
- Markfordon kan förekomma utan dubbelriktad flygradioförbindelse.
- Högervarv tillämpas vid start och landning bana 32.

2. Repeated instrument approaches and TGL accepted during the following hours:
MON–THU 0730–1900 (0630–1800)
FRI 0730–1600 (0630–1500)
SAT, SUN, HOL 0900–1600 (0800–1500)

3. On parking stand APU shall not be operated unless required for engine start or adjustment of cabin heat. In no case APU may be started earlier than 15 min before estimated time for taxiing.

4. IFR traffic shall be ready to start engines when requesting start-up from ATC.

5. Transponder code will be communicated during out-taxiing.

6. Air traffic outside ATS hours of operation

- Aerodrome consent is required for all air 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 127.105.
- Ground vehicles can occur without two-way VHF communication.
- Right hand traffic circuit applies for take-off and landing RWY 32.

ESTA 2.21 MINSKNING AV BULLERSTÖRNING

1. Över de centrala delarna av Ängelholm bör luftfartyg inte framföras på lägre höjd än 2000 ft AMSL utom då så är nödvändigt i samband med start och landning.

2. Angivna flygvägar för ankommande och avgående trafik har upprättats även för att minska bullerstörningar. Luftfartyg skall noggrant följa i klareringen angiven flygväg samt i övrigt framföras så att onödiga bullerstörningar inte förorsakas.

NOISE ABATEMENT PROCEDURES

1. Over the central parts of Ängelholm aircraft should not be operated below 2000 ft AMSL except when necessary for take-off or landing.

2. The routes for inbound and outbound traffic have been established also for noise abatement purposes. Aircraft shall strictly adhere to assigned route and be operated in such a manner that unnecessary noise disturbances are not caused.

ESTA 2.22 FLYGPROCEDURER

1. Ankommande IFR-trafik inom Ängelholm TMA/CTR

Flygvägar
Se sid ESTA 4-5 till ESTA 4–8.

2. Startprocedurer, omnidirectional

FLIGHT PROCEDURES

1. Inbound IFR traffic within ÄngelholmTMA/CTR

Routes
See pages ESTA 4–5 through ESTA 4–8.

2. Omnidirectional departure procedures

RWY	Procedure	Significant obstacle		
		Obstacle	Elevation (ft)	Direction (GEO)/Dist (m) from THR
14	Climb straight ahead to MNM turning ALT 600 ft. Continue climb to appropriate MSA.	Antenna (CIO)	112	133°/2500
32	Climb straight ahead to MNM turning ALT 700 ft. Continue climb to appropriate MSA.	-	-	-

3. Avbrott i radioförbindelse

Luftfartyg skall följa de föreskrifter som anges i AIP ENR 1.3.

3. Communication failure

Aircraft shall follow the procedures laid down in AIP ENR 1.3.

4. Lågsiktsprocedurer (LVP)

Minimum RVR för avgångstrafik är 400 m.

LVP finns etablerade och träder ikraft senast om RVR är lägre än 550 m och/eller molnbasen är lägre än 200 ft eller på begäran. Meddelande om att LVP tillämpas lämnas av ATS.

När LVP tillämpas tillåts endast ett luftfartyg eller fordon inom LVP-området (manöverområdet enl AD 2 ESTA 2–1).

5. VFR flygning inom Ängelholm TMA/CTR

Normala in- och utpasseringspunkter
Se ESTA 6–1.

Väntlägen
Se ESTA 6–1.

6. Inflygningsprocedur Annan än standard

Speciell inflygningsprocedur Annan än standard CAT II RWY 14 tillgänglig på begäran.

Lågsiktsprocedurer skall vara i kraft.

Godkännande för användning av Annan än standard CAT II krävs av Transportstyrelsen och för utländska operatörer deras nationella flygsäkerhetsmyndighet.

4. Low visibility procedures (LVP)

Minimum RVR for departures is 400 m.

LVP are established and will be in force at latest when RVR falls below 550 m and/or the cloudbase is less than 200 ft or on request. The application of LVP will be announced by ATS.

When LVP is applied only one aircraft or vehicles are allowed in the LVP area (same as manoeuvring area on AD 2 ESTA 2–1).

5. VFR flight within Ängelholm TMA/CTR

Normal entry and exit points
See ESTA 6–1.

Holding points
See ESTA 6–1.

6. Approach procedure Other Than Standard (OTS)

Special approach procedure Other Than Standard (OTS) CAT II RWY 14 available on request.

Low visibility procedures (LVP) shall be in force.

Authorization for Other Than Standard (OTS) Category II operations by the operator's National Aviation Authority is required.

ESTA 2.23 ÖVRIG INFORMATION

1. Undantag från krav i CS-ADR-DSN:
   - Lutningar på plattan – 1.4 % lutning på Platta E.
   - Längsgående lutningar på bana – 1.48 % sista 30 m på banan från tröskel bana 14, det vill säga utanför sättpunktszonen bana 32.
   - Avstånd mellan lutningsändringar på bana – Krökningsradien finns på en övergång och har radien 10 000 m sista 30 m på banan från tröskeln bana 14, det vill säga utanför sättpunktszonen bana 32.
   - Bana för precisionsinflygning - Fasta hinder genomtränger i följande hinderbegränsade ytor enligt förteckning:
     Inflygningsyta bana 32
     Horisontella ytan
     Koniska ytan
     Övergångsytan bana 14 och 32
     Stråkytan bana 14 och 32

ADDITIONAL INFORMATION

1. Exemptions from requirements in CS-ADR-DSN:
   - Slopes on aprons – 1.4 % Slope on Apron E.
   - Longitudinal slopes on RWY – 1.48 % the last 30 m on RWY from THR RWY 14, in other words outside RWY 32 touchdown zone.
   - Distance between slope changes – The radius of curvature is at a transition and has a radius of 10 000 m last 30 m on RWY from THR RWY 14. In other words outside RWY 32 touchdown zone.
   - Precision approach runways – Fixed obstacles penetrate the following obstacle limitation surfaces according to list:
     Approach surface RWY 32
     Horizontal surface
     Conical surface
     Transition surface RWY 14/32
     Strip RWY 14/32

AD 2 AERODROMES

ESNO 2.1 AERODROME LOCATION INDICATOR AND NAME

ESNO – ÖRNSKÖLDSVIK

ESNO 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

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

ESNO 2.3 OPERATIONAL HOURS

1.	AD Administration AD Operating hours	MON-FRI 0700-1500 (0600-1400) Ref AIP SUP/NOTAM
2.	Customs and immigration	O/R TEL +46 (0)8 405 05 70, FAX +46 (0)8 654 06 11, tuk@tullverket.se
3.	Health and sanitation	-
4.	AIS Briefing Office	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
5.	ATS Reporting Office (ARO)	As ATS
6.	MET Briefing Office	FPC H24, +46 (0)8 797 63 40, www.lfv.se/fpc
7.	ATS	Ref AIP SUP/NOTAM
8.	Fuelling	As AD Operating HRS
9.	Handling	O/R
10.	Security	O/R
11.	De-Icing	O/R
12.	Remarks	Increased charges outside AD HR of OPS. For information TEL +46 (0)60 19 75 05

ESNO 2.4 HANDLING SERVICES AND FACILITIES

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

ESNO 2.5 PASSENGER FACILITIES

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

ESNO 2.6 RESCUE AND FIRE FIGHTING SERVICES

1.	AD category for fire fighting	CAT 6 for SKED traffic. Other traffic O/R. During periods of reduced AD activity, RFFS level of protection may be lowered to a level corresponding to the largest aircraft using the AD during that period.
2.	Rescue equipment	Off road vehicle
3.	Capability for removal of disabled aircraft	Suitable for aircraft up to A321.
4.	Remarks	Rescue service for ACFT exceeding 27,000 kg MTOW O/R

ESNO 2.7 SEASONAL AVAILABILITY – CLEARING

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

ESNO 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	Apron surface and strength	Apron ASPH PCN 81 F/B/X/T
2.	Taxiway width, surface and strength	TWY A 22 m ASPH PCN 65 F/B/X/T
3.	ACL, location and elevation	At holding point 340 ft
4.	VOR checkpoints	At holding point TWY A
5.	INS checkpoints	At holding point TWY A
6.	Remarks	-

ESNO 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1.	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of ACFT stands	Taxi guide lines and signs. Marshalling available	
2.	RWY and TWY markings and LGT	RWY 12/30:	Designator, THR, TDZ, CL and edges are day marked. RTHL, REDL, RENL
		TWY A:	HLDG and CL day marked. Edge lights, RGL
3.	Stop bars	-	
4.	Remarks	-	

ESNO 2.10 AERODROME OBSTACLES

In Area 2					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT in metres	Markings/ Type, colour	Remarks
a	b	c	d	e	f
ESNO1	LOC monitor	632415.4N 0190022.6E	102.7 / -	-	-
ESNO2	Tree	632525.2N 0185647.1E	130.1 / -	-	-
ESNO3	Tree	632456.7N 0185800.4E	112.6 / -	-	-
ESNO4	Tree	632708.6N 0185153.4E	260.9 / -	-	-
ESNO5	Tree	632510.4N 0185713.2E	122.1 / -	-	-
ESNO6	Tree	632533.5N 0185620.3E	134.0 / -	-	-
ESNO7	Tree	632612.9N 0185228.0E	243.8 / -	-	-
ESNO8	Tree	632612.1N 0185314.9E	209.8 / -	-	-
In Area 3					
OBST ID/Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
Not available					

ESNO 2.11 METEOROLOGICAL INFORMATION PROVIDED

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

ESNO 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	True BRG and MAG BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APCH RWY
1	2	3	4	5	6
12	121.59° GEO 114° MAG	2016 x 45	PCN 77 F/B/X/T ASPH	632450.36N 0185815.80E GUND 77.7 ft	THR 354.1 ft TDZ 354.8 ft
30	301.62° GEO 294° MAG	2016 x 45	PCN 77 F/B/X/T ASPH	632416.25N 0190019.48E GUND 77 ft	THR 332 ft

Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
12 See ESNO AOC	-	150 x 180	2136 x 300	-	-
30 See ESNO AOC	-	-	2136 x 300	-	-

ESNO 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
12	2016	2166	2016	2016	-
30	2016	2016	2016	2016	-