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Amendment No. 121
09 FEB 2012

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0.3-1	11 MAR 2010	2.8-2	16 DEC 2010
0.4-1	09 FEB 2012	2.8-3	16 DEC 2010
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0.5-1	05 MAY 2011	2.10-1	18 DEC 2008
0.5-2	17 NOV 2011		
0.5-3	16 DEC 2010	GEN 3	
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		3.2-1	18 DEC 2008
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2.7-2	15 DEC 2011	1.1-4	12 FEB 2009
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1.7-1	12 FEB 2009	3.3-1	09 FEB 2012
1.7-2	12 FEB 2009	3.3-2	09 FEB 2012
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1.8-1	12 FEB 2009	3.3-4	09 FEB 2012
1.9-1	12 FEB 2009	3.3-5	09 FEB 2012
1.10-1	09 APR 2009	3.3-6	09 FEB 2012
1.10-2	09 APR 2009	3.3-7	09 FEB 2012
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1.10-4	09 APR 2009	3.3-9	09 FEB 2012
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1.10-9	09 APR 2009	3.3-14	09 FEB 2012
1.10-10	09 APR 2009	3.3-15	09 FEB 2012
1.10-11	09 APR 2009	3.3-16	09 FEB 2012
1.10-12	09 APR 2009	3.3-17	09 FEB 2012
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2.1-2	15 DEC 2011	3.4-1	18 NOV 2010
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2.1-6	22 SEP 2011	3.4-5	18 NOV 2010
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2.3-2	11 MAR 2010	3.5-1	10 FEB 2011
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4.3-11	22 SEP 2011	0.1-2	11 MAR 2010
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5.2-1	12 FEB 2009	EKKA	
5.2-2	16 DEC 2010	EKKA AD 2.1-1	09 FEB 2012
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5.2-9	12 FEB 2009	EKKA AD 2.1-8	10 FEB 2011
5.3-1	09 APR 2009	EKKA 2.1-9	16 DEC 2010
5.3-2	19 NOV 2009	EKKA VAC	15 DEC 2011
5.4-1	07 APR 2011	EKKA AD CHART	07 APR 2011
5.4-2	09 FEB 2012	EKKA ILS/DME 09R	22 SEP 2011
5.4-3	15 DEC 2011	EKKA L/DME 09R	22 SEP 2011
5.4-4	17 NOV 2011	EKKA HI-TACAN 09R	22 SEP 2011
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EKSP AD 2.1-8	28 JUL 2011	EKYT AD 2.1-8	11 MAR 2010
EKSP AD 2.1-9	28 JUL 2011	EKYT VAC	15 DEC 2011
EKSP AD 2.1-10	28 JUL 2011	EKYT NAC	09 FEB 2012
EKSP NAC	09 FEB 2012	EKYT-VFR-08L	09 FEB 2012
EKSP VAC	15 DEC 2011	EKYT-VFR-26R	09 FEB 2012
EKSP AD CHART	22 SEP 2011	EKYT AD CHART	28 JUL 2011
EKSP APDC	23 OCT 2008	EKYT HI-VORTAC 08L	22 SEP 2011
EKSP HI-		EKYT ILS/DME 08L	22 SEP 2011
VORTAC 10L	12 JAN 2012	EKYT L/DME or	
EKSP ILS/DME		VORTAC 08L	22 SEP 2011
RWY 10L	17 NOV 2011	EKYT HI-VORTAC 26R	22 SEP 2011
EKSP VORTAC 10L	22 SEP 2011	EKYT ILS/DME 26R	22 SEP 2011
EKSP VORTAC TO		EKYT VORTAC 26R	22 SEP 2011
ILS/DME 10L	17 NOV 2011		
EKSP RNAV (GNSS)		AD 3	
RWY 10L	17 NOV 2011	BGNO AD 3.1-1/	07 APR 2011
EKSP WAYPOINT		BGNO AD 3.1-2	07 APR 2011
LIST RWY 10L	28 JUL 2011	BGNO AD 3.1-3/	07 APR 2011
EKSP HI-		BGNO AD 3.1-4	07 APR 2011
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EKSP ILS/DME		BGNO AD CHART	12 JAN 2012
RWY 28R	17 NOV 2011	BGNO GPS-RNAV	
EKSP VORTAC 28R	17 NOV 2011	RWY 21	22 SEP 2011
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EKSP RNAV (GNSS)			
RWY 28R	17 NOV 2011		
EKSP WAYPOINT			
LIST RWY 28R	28 JUL 2011		

GEN 2.4 LOCATION INDICATORS

*Note: Location indicators identified by an * cannot be addressed over the AFS*

ENCODE		DECODE	
LOCATION	INDICATOR	LOCATION	LOCATION
A6A (Private Helideck)	EKAF*	EKAE	ÆRØ 2)
AALBORG CIV/MIL	EKYT	EKAF*	A6A (Private Helideck)
AALBORG/LIMFJORDEN (Private AD)	EKYL*	EKAH	AARHUS/TIRSTRUP
AARHUS	EKAH	EKAO*	ÆRØ HELIPORT (Private helideck)
AARHUS (JRCC)	EKMC	EKAR*	SYD ARNE (Private helideck)
AMHS	EKZZ	EKAS*	SKEJBY HOSPITAL (Private helideck)
ANHOLT	EKAT*	EKAT*	ANHOLT
ANHOLT VINDMØLLEPARK (Private Helideck)	EKAV*	EKAV*	ANHOLT VINDMØLLEPARK (Private Helideck)
ANNISSE (Private AD)	EKHE*	EKBI	BILLUND
B11 (Private Helideck)	EKBL*	EKBL*	B11 (Private Helideck)
BILLUND	EKBI	EKBR*	BRÆDSTRUP (Private AD)
BORNHOLM/RØNNE	EKRN	EKCA	CIVIL AVIATION ADMINISTRATION
BRÆDSTRUP (Private AD)	EKBR*	EKCE*	CECILIE (Private Helideck)
CIVIL AVIATION ADMINISTRATION	EKCA	EKCH	KØBENHAVN/KASTRUP
COPENHAGEN HELIPORT (private helideck)	EKCN*	EKCN*	COPENHAGEN HELIPORT (private helideck)
CECILIE (Private Helideck)	EKCE*	EKDB*	DAN B (Private Helideck)
DAN B (Private Helideck)	EKDB*	EKDE*	DAN E (Private Helideck)
DAN E (Private Helideck)	EKDE*	EKDF*	DAN F (Private Helideck)
DAN F (Private Helideck)	EKDF*	EKDK	KØBENHAVN/FIR (ACC)
DANSK METEOROLOGISK INSTITUT	EKMI	EKEB	ESBJERG
ENDELAVE (PRIVATE AD)	EKEL*	EKEL*	ENDELAVE (Private AD)
ESBJERG	EKEB	EKFR*	FREERSLEV (Private AD)
FREERSLEV (Private AD)	EKFR*	EKFU*	FUR (Private AD)
FUR (Private AD)	EKFU*	EKGA*	GRENAA HESSEL (Private AD)
GORM C (Private Helideck)	EKGC*	EKGF*	TYRA AFIS
GRENAA (Private AD)	EKGR*	EKGC*	GORM C (Private Helideck)
GRENAA HESSEL (Private AD)	EKGA*	EKGH*	GRØNHOLT (Private AD)
GRØNHOLT (Private AD)	EKGH*	EKGL*	GØRLØSE (Private AD)
GØRLEV (Private ad)	EKGO*	EKGO*	GØRLEV (Private AD)
GØRLØSE (Private AD)	EKGL*	EKGR*	GRENAA (Private AD)
HADERSLEV (Private AD)	EKHV*	EKHA*	HALFDAN A (Private Helideck)
HADSUND	EKHS*	EKHB*	HALFDAN B (Private Helideck)
HALFDAN A (Private Helideck)	EKHA*	EKHD*	HARALD (Private Helideck)
HALFDAN B (Private Helideck)	EKHB*	EKHE	ANNISSE (Private AD)
HAMMER /Private AD)	EKHM*	EKHG	HERNING
HARALD (Private Helideck)	EKHD*	EKHH*	HOLSTEBRO HOSPITAL (Private helideck)
HELIPORT BORNHOLMS HOSPITAL (Helideck)	EKRB	EKHJ*	HJØRRING HOSPITAL (Private helideck)
HERNING	EKHG	EKHK*	HOLBÆK (PRIVATE AD)
HJØRRING HOSPITAL (Private helideck)	EKHJ*	EKHL*	HOLSTED (Private Heliport)
HOLBÆK (PRIVATE AD)	EKHK*	EKHM*	HAMMER (Private AD)
HOLSTEBRO HOSPITAL (Private helideck)	EKHH*	EKHN*	HORNS REV B (Private Helideck)
HOLSTED (Private Heliport)	EKHL*	EKHR	HORNS REV A (Private Helideck)
HORNS REV A (Private Helideck)	EKHR*	EKHS*	HADSUND
HORNS REV B (Private Helideck)	EKHN*	EKHV*	HADERSLEV (Private AD)

ENCODE		DECODE	
LOCATION	INDICATOR		LOCATION
HVIDBJERG (Private AD)	EKTH*	EKKA	KARUP (MIL)
KALUNDBORG	EKKL *	EKKL *	KALUNDBORG
KARUP (MIL)	EKKA	EKKO *	KORSØR (PRIVATE AD)
KARUP MIL MET CENTRE	EKMK	EKLS *	LÆSØ
KOLDING/VAMDRUP	EKVD	EKLV *	LEMVIG
KORSØR (PRIVATE AD)	EKKO *	EKMB	LOLLAND FALSTER/MARIBO
KRUSÅ-PADBORG	EKPB *	EKMC	KARUP (JRCC)
KØBENHAVN FIR (ACC)	EKDK	EKMI	DANSK METEOROLOGISK INSTITUT
KØBENHAVN/KASTRUP	EKCH	EKMK	KARUP MIL MET CENTRE
KØBENHAVN/ROSKILDE	EKRK	EKNE*	NINI EAST HELIDECK (Private Helideck)
LEMVIG	EKLV *	EKNI *	NINI (Private Helideck)
LOLLAND FALSTER/MARIBO	EKMB	EKNM	MORSØ 1)
LÆSØ	EKLS *	EKOD	ODENSE/BELDRINGE
MORSØ	EKNM *	EKPB *	KRUSÅ-PADBORG
NINI (Private Helideck)	EKNI *	EKRA *	RÅRUP (Private AD)
NINI EAST HELIDECK (Private Helideck)	EKNE*	EKRB	HELIPORT BORNHOLMS HOSPITAL
ODENSE	EKOD	EKRD	ŘÄNDERS
RANDERS	EKRD	EKRF *	ROLF (Private helideck)
RIGSHOSPITALET	EKRH	EKRH	RIGSHOSPITALET
RINGSTED 1)	EKRS	EKRK	KØBENHAVN/ROSKILDE
ROLF (Private helideck)	EKRF *	EKRN	BORNHOLM/RØNNE
RÅRUP (Private AD)	EKRA *	EKRS	RINGSTED 1)
SAMSØ HELIPORT (Private Helideck)	EKSM*	EKSA *	SÆBY/OTTERUP (PRIVATE AD)
SAMSØ	EKSS *	EKSB	SØNDERBORG
SINDAL	EKSN	EKSC *	SKJOLD (Private helideck)
SIRI (Private helideck)	EKSI *	EKSD *	SPJALD
SKIVE	EKSV *	EKSI *	SIRI (Private helideck)
SKEJBY HOSPITAL (Private helideck)	EKAS*	EKSL	SLAGLILLE (Private AD)
SKJOLD (Private helideck)	EKSC *	EKSM*	SAMSØ HELIPORT (Private Helideck)
SLAGLILLE (Private AD)	EKSL	EKSN	SINDAL
SPJALD	EKSD *	EKSP	SKRYDSTRUP (MIL)
STAUNING	EKVJ	EKSS *	SAMSØ
SYD ARNE (Private helideck)	EKAR *	EKST	SYDFYN/TÅSINGE
SYDFYN/TÅSINGE	EKST *	EKSV *	SKIVE
SÆBY/OTTERUP (PRIVATE AD)	EKSA *	EKTD	TØNDER
SØNDERBORG	EKSB	EKTE *	TYRA E (Private helideck)
THISTED	EKTS	EKTH*	HVIDBJERG (Private AD)
THISTED POLITISTATION	EKTP*	EKTP*	THISTED POLITISTATION
TYRA AFIS	EKGF *	EKTS	THISTED
TYRA E (Private helideck)	EKTE *	EKTW *	TYRA W (Private helideck)
TYRA W (Private helideck)	EKTW *	EKVB	VIBORG
TØNDER	EKTD	EKVD	KOLDING/VAMDRUP
VESTHIMMERLAND	EKVH *	EKVH *	VESTHIMMERLAND
VIBORG	EKVB	EKVJ	STAUNING
VOJENS/SKRYDSTRUP (MIL)	EKSP	EKYL*	AALBORG/LIMFJORDEN (Private AD)
ÆRØ	EKAE	EKYT	AALBORG (CIV/MIL)
ÆRØ HELIPORT (Private Helideck)	EKAO	EKZZ	AMHS

GEN 3.4 COMMUNICATION SERVICES**1. Responsible services**

All telecommunication services on Danish airbases are administrated and maintained by the Danish military authorities, except:

ILS equipment including related DME,
Locator beacons,

which are administered and maintained by the Civil Aviation Administration.

2. Area of responsibility

Communication services are provided within the København FIR.

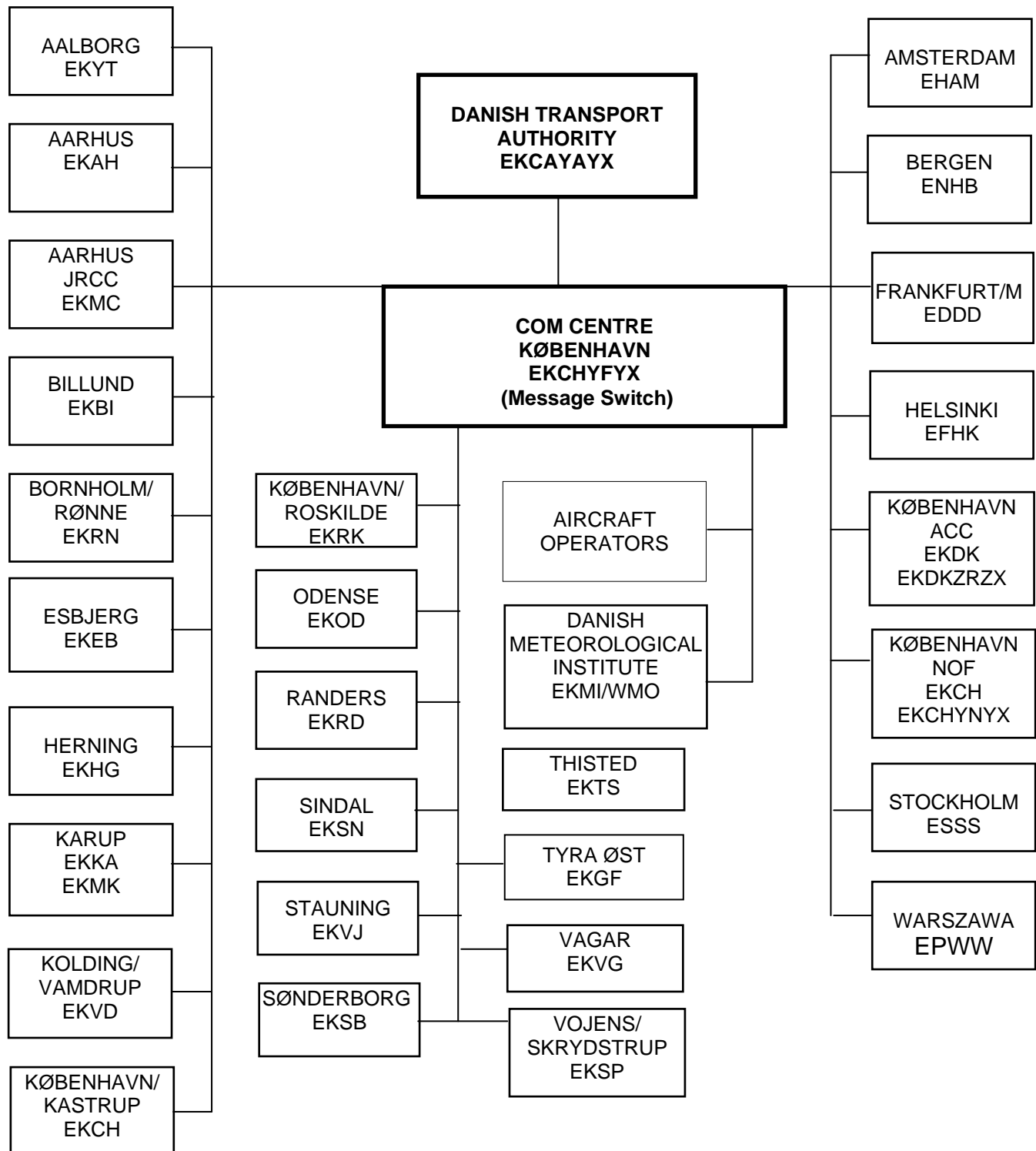
3. Types of services

The following types of radio aids to navigation are available

- Non Directional and Locator Beacons (NDB;L)
- Tactical Air Navigation (TACAN)
- Distance Measuring Equipment (DME)
- Instrument Landing System (ILS)
- Airfield Surveillance Radar (ASR)
- Precision Approach Radar (PAR)
- Long Range Radar (LRR)

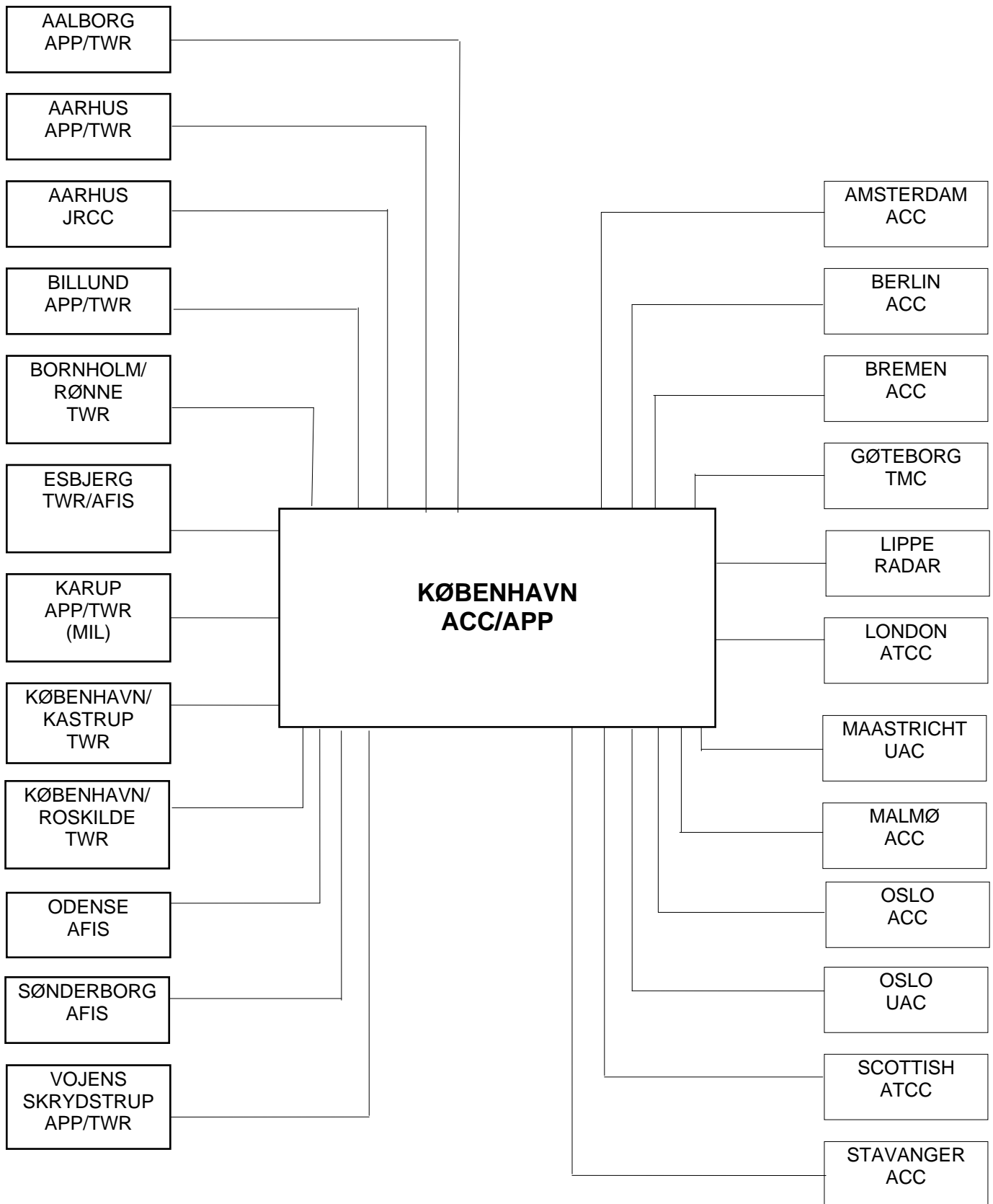
For detailed description and hours of operation see AD 2.

**HANDAMENDMENTS IN FORCE:
AERONAUTICAL FIXED SERVICES - TELEGRAPH**



————— AFTN / OPMET

AERONAUTICAL FIXED SERVICES - TELEPHONE



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ENR 1. GENERAL RULES AND PROCEDURES**ENR 1.1 GENERAL RULES****1. Use of Afterburner/Reheat**

1.1 It is prohibited to use afterburner/reheat below 5.000 FT AGL with following exceptions:

- During take-off, touch-and-go, and go-around.
- During climb after take-off, touch-and-go or go-around.
- When climbing to altitude below 5.000 FT the afterburner/reheat has to be cut out at 350 KT or when reaching altitude.
- In emergency.

2. Night Navigational flights over Denmark

2.1 Foreign Air Stations planning to overfly Denmark on navigational flights later than 1500 UTC, are to send their flight plans in due time to be received at COPENHAGEN ACC (EKDKZQZM for IFR flights and EKDKZFZM for VFR flights) before 1300 UTC. Night VFR flights with foreign military aircraft will not be allowed over Danish territory.

2.2 For flights on Saturdays, Sundays and Danish public holidays, flight plans shall be sent in due time to be received at COPENHAGEN ACC before 1300 UTC the previous working day. See list of Danish public holidays on page GEN 2.1-2.

3. Supersonic flight

3.1 Supersonic flights with foreign military aircraft, will not be allowed over Danish territory except when participating in NATO exercises in which case, specific regulations will be stipulated for each individual exercise or when foreign military aircraft under operational control of Commander Tactical Air Command, Denmark, operates from a Danish Air Station where national regulations apply.

4. VFR flying above 3500 FT.

4.1 Military aircraft flying over Danish territory above 3500 ft are to contact an Aircraft Controlling Unit (ACU) or ATS unit for flight following/flight information service.

4.2 Operations above FL195 inside København FIR are subject to ATC-clearance obtained from ACC Copenhagen.

5. Air refuelling

5.1 Permission to establish an Air Refuelling Track has to be obtained from ftk-oox@mil.dk.

6. North Sea airspace. Flying at or below FL 85

6.1 General

En Route flight over the North Sea in that part of the airspace, where Air Traffic Service is provided by Denmark, shall be carried out according to the cruising levels and Air Traffic Rules.

Note: 1. Tyra AFIS provide Air Traffic Service within TYRA TIA and TYRA TIZ.

2. Copenhagen Information provides Air Traffic Service outside TYRA TIA and TYRA TIZ.

6.2 Crossing of helicopters flight path Pilots of fixed-wing aircraft crossing the flight path of helicopters should as early as possible plan their flight to pass over, below or behind the helicopters and make efforts to obtain greatest possible separation. In order to discover helicopter traffic, use of radar is recommended. In addition traffic information may be obtained from Copenhagen Information or TYRA AFIS.

Note: Helicopter pilots prefer a horizontal separation of at least 2 NM.

6.3 Helicopter operations

6.3.1 Helicopter operations to, from and between oil and gas and wind farm installations in the North Sea are taking place on a 24 hour basis, under IMC as well as VMC and often with sling load.

6.3.2 Definition - Helicopter Main Route (HMR):

An ATS-route, where civil helicopters operate on a regular and frequent basis, and where alerting service, flight information service or advisory service are provided.

6.3.3 Helicopter Decks:

The following helicopter decks are situated on oil and gas installations in the North Sea: DAN B, DAN E, DAN F, GORM C, HALFDAN A, HALFDAN B, HARALD, SIRI, SKJOLD, SOUTH ARNE, CECILIE, NINI, ROLF, TYRA EAST and TYRA WEST.

6.3.4 The following helicopter decks are situated in the vicinity of off-shore wind farms: HORNS REV A, HORNS REV B.

7. Northern North Sea. Lower airspace responsibilities (at or below fl 85)

7.1 Denmark, Norway, and the United Kingdom have arranged through the exchange of bilateral Letters of Agreement to transfer the responsibility for providing ATS to all aircraft at or below FL 85, within those areas of their FIRs which are located between the FIR boundary and the Median Line, to the nation exploiting the natural resources of the area.

7.2 The areas involved in transfer of ATS responsibility are described below and shown on the chart overleaf:

7.3 The areas are bounded by arcs of great circles joining successively the coordinates concerned.

7.4 Procedures and communications within the said areas will be as if the airspace concerned was an integral part of the FIR for which the described nation is responsible.

ENR 3.3 AREA NAVIGATION (RNAV) ROUTES

For route availability and conditions see the CFMU website:
<http://www.cfm.eucontrol.int/rad>

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR RDL	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.		Direction of Cruising levels Odd Even		REMARKS
			FL 660 FL 245	C			
<u>L39 (CDR)</u> △ LINVI (FIR BDRY) 570000N 0071388E △ GOLUM (FIR BDRY) 552700N 00517E	215.8	114.0	FL 660 FL 245	C		↓	For continuation see AIP Norway
							CDR1: FRI 1700-MON 0700 (FRI 1600-MON 0600) MON 2300-FRI 0700 daily 2300-0700 (MON 2200-FRI 0600) daily 2200-0600) CDR2: Outside said hours. ALTN: DANLO – P850 – GOLUM
							Extremity of L39
<u>L619 (CDR) (RNP5)</u> △ VALBO (FIR BDRY) 550743.65N 0050000.00E △ SUTEB (FIR BDRY) 550000.00N 0052507.74E	118.0	16.4	FL 660 FL 245	C		↓	For continuation, see AIP UK
							CDR: SUTEB - VALBO CDR1: FRI 1700-MON 0700 (FRI 1600-MON 0600) MON 2300-FRI 0700 daily 2300-0700 (MON 2200-FRI 0600) daily 2200-0600) CDR2: Outside said hours ALTN: LBE-P992-VES-L983
	298.4						↑

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR RDL	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.	Direction of Cruising levels		REMARKS	
				Odd	Even		
L621 (RNP5)							
△ KULUD (FIR BDRY) 561538N 0121959E	304.3	6.0	FL 660 FL 95	C		For continuation, see AIP Sweden Sweden FRA Entry/Exit ATS provided by Sweden ACC FL95 – FL245 between KULUD And MADAG.	
△ ROKAM 561901N 0121100E		6.8	FL 95 3500 FT MSL	E			
△ MADAG 562250N 0120049E	AAL 121	15.5	FL 660 FL 95	C			
△ NORTI 563128N 0113732E		11.1	FL 95 3500 FT MSL	E			
△ LAPMA 563733.44N 0112051.15E		53.0					
△ AALBORG VOR/DME (AAL) 570613.39N 0095944.08E	122.3 312.1	31.8		C			
△ LAGUM 572720N 0091606E	AAL 311	20.0					
△ AMSEV (FIR BDRY) 574031N 0084808E	131.1						
							For continuation, see AIP Norway

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR RDL	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.		Direction of Cruising levels		REMARKS
					Odd	Even	
<u>L975 (CDR) (RNP 5)</u>							For continuation, see AIP UK ATS provided by Copenhagen ACC between LESRA and ROPAL CDR 1: GOLUM-LESRA H24 CDR: VES - GOLUM CDR1: FRI 1700-MON 0600 (FRI 1600-MON 0500) MON 2300-FRI 0600 daily 2300-0600 (MON 2200-FRI 0500 daily 2200-0500) CDR2: Outside said hours ALTN: VES – L983 – AMRAM - N866 - GOLUM CDR 3: ODN – KOKAK below FL195 ALTN: ODN-M602-CDA-M611 ATS provided by Copenhagen ACC/APP between KOKAK and NISLO Sweden FRA Entry/Exit For continuation, see AIP Sweden
△ LESRA (FIR BDRY) 552308N 0050000E	068.1	10.4	FL 660 FL 195	C	↓		
△ GOLUM 552700N 0051700E	248.3 083.6	103.3					
△ VESTA VOR/DME (VES) 553611.33N 0081759.86E	266.1 090.0	12.1	FL 660 FL 195 FL 195 3500 FT MSL	C E			
△ BILLUND TMA BDRY 553610N 0083920E	<i>VES 090</i> <i>ODN 271</i>		FL 660 FL 195 FL 195 FL 75 FL 75 3500 FT MSL	C E D			
△ BILLUND TMA BDRY 553546N 0093831E		33.4					
△ RIDSI 553530N 0095939E		11.9	FL 660 FL 195	C			
△ ODIN VOR/DME (ODN) 553451.64N 0103910.76E	271.9 093.5	22.3	FL 195 3500 FT MSL	E			
△ COPENHAGEN AREA 553310N 0112346E		25.4					
△ KOKAK (FIR BDRY) 552929N 0124254E		45.1	FL 660 3500 FT MSL	C	↑		
	275.4						

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR RDL	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.	Direction of Cruising levels		REMARKS
				Odd	Even	
L983 (RNP5)						For continuation, see AIP UK
△ PETIL (FIR BDRY) 555620N 0050000E	089.0	13.3	FL 660 FL 195	C	↓	ATS provided by Copenhagen ACC between SURAT and PETIL
△ BUSOM 555631N 0052341E		41.8				
△ AMRAM 555637N 0063803E	270.4					
	109.2					
△ VESTA VOR/DME (VES) 553611.33N 0081759.86E	290.7	60.0				
	102.8		FL 660 FL 195 FL 195 3500 FT MSL	C E		
△ BILLUND TMA BDRY 553243N 0084430E			FL 660 FL 195 FL 195 FL 75 FL 75 3500 FT MSL	C E D		
△ BILLUND TMA BDRY 552922N 0090925E						
△ ASBIL 552219N 0095938E		29.3	FL 660 FL 195	C	↑	
△ TUDLO 551633N 0103852E		23.2	FL 195 3500 FT MSL	E		
△ ROBUS 550634N 0114311E		38.2				
		23.7				
△ CODAN VOR/DME (CDA) 550005.40N 0122245.16E	286.2					
	086.4	5.0				
△ BETUD 550026.08N 0123120.77E						
	CDA 084	7.2				
△ KOSMO 550055N 0124349E						
		2.4				
△ MATEK (FIR BDRY) 550059N 0124803E	266.9					Sweden FRA Entry/Exit For continuation, see AIP Sweden

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR RDL	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.	Direction of Cruising levels		REMARKS	
				Odd	Even		
<u>L990 (RNP5)</u> △ LILBI (FIR BDRY) 551511N 0124058E △ COPENHAGEN AREA 551351N 0123740E △ LUPUR 545928N 0120303E △ NEXEN 544838.80N 0113730.87E △ MARIP 544323N 0112515E	234.6	2.3	FL 660 FL 195	C	↓	For continuation, see AIP Sweden ATS provided by Copenhagen ACC between ADVIS and LILBI CDR3: LILBI – LUPUR below FL 195 ALTN: ODARU-M611-LUPUR	
							24.5
		18.3					
		8.8					
							Extremity of L990
<u>L997 (RNP5)</u> △ NOVPO 560624N 0121428E △ ROKAM 561901E 0121100E △ VEDAR (FIR BDRY) 563154N 0120725E	351.3	12.8	FL 660 FL 95 FL 95 3500 FT MSL	C E	↓	Extremity of L997 ATS provided by Sweden ACC FL 95 – FL 660 between NOVPO and VEDAR. Sweden FRA Entry For continuation. see AIP Sweden	
							13.0
<u>M602 (RNP5)</u> △ SONAL (FIR BDRY) 545244N 0124649E △ CODAN VOR/DME (CDA) 550005.40N 0122245.16E △ ROBUS 550634N 0114311E △ ODIN VOR/DME (ODN) 553451.64N 0103910.76E △ LUTUS 560603N 0095940E	298.1 CDA 116	15.7	FL 660 FL 195 FL 195 3500 FT MSL	C E	↓	For continuation. see AIP Germany	
							117.8
	286.2 CDA 284	23.7					
	105.6						
	308.2 ODN 126	46.3					
	127.4						
324.5 ODN 323	38.4				↑		
144.3						Extremity of M602	
<u>M604 (RNP5)</u> △ INBOB (FIR BDRY) 553625N 0050000E △ BUSOM 555631N 0052341E △ DANKO (FIR BDRY) 570000N 0064152E	033.4	24.2	FL 660 FL 195	C	↓	For continuation, see AIP UK ATS provided by Copenhagen ACC between LARGA and INBOB	
							77.0
	214.5					↑	For continuation, see AIP Norway

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR RDL	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.		Direction of Cruising levels Odd Even		REMARKS
M609 (CDR) (RNP 5) △ VESTA VOR/DME (VES) 553611.33N 0081759.86E △ BAMPI 555034.46N 0081610.64E △ RAMME VOR/DME (RAM) 562842.14N 0081114.51E △ RASVI (FIR BDRY) 571723N 0080258E	355.9	14.5	FL 660 FL 195 FL 195 3500 FT MSL	C E	↓		Extremity of M609 CDR: RAM - RAVSI CDR1: FRI 1700-MON 0600 (FRI 1600-MON 0500) MON 2300-FRI 0600 daily 2300-0600 (MON 2200-FRI 0500 daily 2300-0600) CDR2: Outside said hours ALTN: VES – P601 - LAGUM – L621 For continuation, see AIP Norway
	VES 356 RAM 176						
	175.8	48.9					
	354.8 RAM 355						
	174.6					↑	
M611 (RNP 5) △ ODARU (FIR BDRY) 550545N 0124541E △ CODAN VOR/DME (CDA) 550005.40N 0122245.16E △ LUPUR 545928N 0120303E △ KOPEX 545813N 0112804E △ LANGO 545644N 0105123E △ ALASA (FIR BDRY) 545831N 0095742E	246.8 CDA 065	14.3	FL 660 FL 195 FL 195 3500 FT MSL	C E		↓	For continuation, see AIP Sweden Sweden FRA Entry/Exit Extremity of M611
	066.5 267.0						
		20.2					
	CDA 265 ALS 084		21.2				
	850	30.0				↑	
M725 (RNP5) △ SONAL (FIR BDRY) 545244N 0124649E △ CODAN VOR/DME (CDA) 550005.40N 0122245.16E △ ADSEN 560840.88N 0105302.25E △ AALBORG VOR/DME (AAL) 570613.39N 0095944.08E △ EVSES 572229.22N 0093759.34E △ LAVKO (FIR BDRY) 574800N 0090303E	298.1 CDA 116	15.7	FL 660 FL 195 FL 195 3500 FT MSL	C E		↓	For continuation, see AIP Germany For continuation, see AIP Norway
	117.8 324.1						
	142.8 333.3	64.7					
	152.6 324.3		20.1				
	AAL 323	31.7				↑	
	143.9						

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR RDL	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.	Direction of Cruising levels		REMARKS	
				Odd	Even		
M852 (RNP 5) △ ALASA (FIR BDRY) 544831N 0095742E △ ALSIE VOR (ALS) 545419.49N 0095936.16E △ ADSEN 560840.88N 0105302.25E △ TUKTU 561603N 0105832E △ VADIN (FIR BDRY) 570816N 0113838E						For continuation, see AIP Germany	
	010.7 ALS 190	5.9	FL 660 FL 195	C	↓	VADIN - ALS: RNAV OPS only Between VADIN and ALS only available southbound direction below FL 245	
	190.7		FL 195 3500 FT MSL	E			
		80.4					
			8.0				
	202.6		56.8			↑	Sweden FRA Entry/Exit For continuation, see AIP Sweden
	203.2						
M869 (CDR) (RNP 5) △ IBREK (FIR BDRY) 562330N 0121356E △ MADAG 562250N 0120049E △ EVAKI 561422N 0072852E △ GOREV (FIR BDRY) 560312N 0050000E						For continuation, see AIP Sweden Sweden FRA Entry/Exit ATS provided by Sweden ACC Between IBREK and MADAG	
	264.9	7.3	FL 660 FL 245	C	↓	CDR1: MADAG – EVAKI H24 ALTN: EVAKI – P619 – VES - L983 - CDA – M611	
	084.7 268.7						
		151.7					
	084.9 263.4	84.0			↑	ATS provided by Copenhagen ACC between GOREV and SURAT	
	081.3						Extremity of M869
N581 (RNP 5) △ RAMME VOR/DME (RAM) 562842.14N 0081114.51E △ EVAKI 561422N 0072852E △ VAXIT (FIR BDRY) 563215N 0050000E						Extremity of N581	
	238.9	27.6	FL 660 FL 195	C	↓	ATS provided by Copenhagen ACC between ELSAN and VAXIT	
	058.4 283.2						
		84.7			↑		
	101.2						For continuation, see AIP UK

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR RDL	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.	Direction of Cruising levels		REMARKS	
				Odd	Even		
<u>N607 (CDR) (RNP 5)</u> △ VESTA VOR/DME (VES) 553611.33N 0081759.86E △ AALBORG VOR/DME (AAL) 570613.39N 0095944.08E △ KUVUS 572016.57N 0110000.00E △ MAKUR (FIR BDRY) 572547N 0112425E						Extremity of N607	
	031.3 <u>VES 031</u> <u>AAL 212</u>	106.2	FL 660 FL 195 FL 195 3500 FT MSL	C E	↓	↑	CDR1: VES - AAL H24 ALTN: VES - P601 - KEMEG - N866 - AAL
	212.8 066.3 <u>AAL 065</u>	35.6					Sweden FRA Entry/Exit
		14.3					
							For continuation, see AIP Sweden
<u>N850 (CDR) (RNP 5)</u> △ MISBI (FIR BDRY) 555355N 0124021E △ GOLMI 554638N 0123059E △ MAXEL 544323,31N 01157,93E △ MARIP 544323N 0112515E △ BAGOS (FIR BDRY) 543422N 0111612E						For continuation, see AIP Sweden Sweden FRA Exit ATS provided by Copenhagen ACC below FL 195 between REKMO and MISBI ATS provided by Sweden ACC Above FL 195 between LEBDA And MOSIN.	
	216.0	9.0	FL 660 FL 95	C		↓	
	211.1	40.1					
	209.9	33.6	FL 660 FL 195 FL 195 3500 FT MSL	C E	↓		CDR3: MISBI - MARIP below FL 195 ALTN: MISMA - Z32 - KELOM - T51 - KOPEX - DCT MARIP
		10.4					For continuation, see AIP Germany
<u>N851 (CDR) (RNP 5)</u> △ MAKEL (FIR BDRY) 542658N 0114801E △ GESKA 543703N 0115557E △ KUBIS 551323N 0122854E △ LEBDA (FIR BDRY) 552225N 0123743E						For continuation, see AIP Germany CDR3: GESKA - LEBDA below FL125 ALTN: GESKA - P605 - ALM	
	024.5	11.1	FL 660 FL 245	C	↓		
	027.4	41.1	FL 660 FL 195 FL 195 3500 FT MSL	C E			ATS provided by Copenhagen APP below FL 195 between LEBDA and GORAX ATS provided by Copenhagen ACC above FL 195 between LEBDA and MOSIN
	029.1	10.4	FL 660 3500 FT MSL	C			RNAV OPS only. Sweden FRA Entry
							For continuation, see AIP Sweden

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR RDL	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.		Direction of Cruising levels Odd Even		REMARKS
<u>N866 (RNP 5)</u>							
△ INVOL (FIR BDRY) 573916N 0111317E	230.7	6.3	FL 660 FL 195	C		↓	For continuation, see AIP Sweden Sweden FRA Entry/Exit
△ DETNA 573515N 0110409E	AAL 049	45.3	FL 195 3500 FT MSL	E			Between AAL - INVOL cruising Level ODD only above FL 285
△ AALBORG VOR/DME (AAL) 570613.39N 0095944.08E	049.7						
	238.5	43.5					
△ KEMEG 564315N 0085221E	AAL 238 RAM 057	27.0					
△ RAMME VOR/DME (RAM) 562842.14N 0081114.51E	057.0		FL 660 FL 195	C			
	238.9	27.6					
△ EVAKI 561422N 0072852E	RAM 239	33.6					ATS provided by Copenhagen ACC between UPGAS and TIPAN
△ AMRAM 555637N 0063803E		54.6			↑		
△ GOLUM 552700N 0051700E	056.5 218.3	15.7					
△ UPGAS (FIR BDRY) 551441N 0050000E							For continuation, see AIP UK
<u>N872 (CDR) (RNP 5)</u>							
△ KOPIIM (FIR BDRY) 560802N 0122954E	230.2	1.9	FL 660 3500 FT MSL	C		↓	For continuation, see AIP Sweden Sweden FRA Exit
△ LASGI 560648N 0122716E		10.1					ATS provided by Sweden ACC above FL 95 between KOPIIM and LASGI and above FL 195 between KOPIIM and NAROL
△ NAROL 560021N 0121330E	SVD 230 ALS 047	37.0					
△ DOBEL 553621.88N 0112323.75E		63.6	FL 660 FL 195	C			CDR3: KOPIIM – DOBEL below FL 195 ALTN: MISMA – Z32 - ALS
△ ALSIE VOR (ALS) 545419.49N 0095936.16E	229.6	6.4	FL 195 3500 FT MSL	E			
△ DEMIR (FIR BDRY) 545011N 0095110E	ALS 229						For continuation, see AIP Germany

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR RDL	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.	Direction of Cruising levels		REMARKS	
				Odd	Even		
<u>N873 (CDR) (RNP 5)</u> △ TUSKA (FIR BDRY) 550000N 0075234E △ INSUS 551329.70N 0080157.15E △ MIKRO 552454.29N 0080959.00E △ VESTA VOR/DME (VES) 553611.33N 0081759.86E △ INTET 561334.69N 0092441.09E △ RADIS 563230N 0095942E △ GOTEX 571217.72N 0111622.36E △ LOBBI (FIR BDRY) 571905N 0112953E						For continuation, see AIP Germany	
	021.6	14.5	FL 660 FL 195	C E	↓	CDR: VES-RADIS H24 ALTN: VES-P601-KEMEG- N866-AAL-N607-BAK	
	VES 202	12.3	FL 195 3500 FT MSL				
		12.2			↑		
	202.0						
	044.5	53.0					
		27.2					
	046.0	58.0					
		10.0					
					Sweden FRA Entry For continuation, see AIP Sweden		
<u>P15 (RNP 5)</u> △ DANKO (FIR BDRY) 570000N 0064152E △ VAXIT (FIR BDRY) 563215N 0050000E	244.3	62.6	FL 660 FL 195	C	↑	↓	For continuation, see AIP Norway ATS provided by Copenhagen ACC between VAXIT and REKNA For continuation, see AIP UK
	062.9						
<u>P60 (CDR) (RNP 5)</u> △ ODIN VOR/DME (ODN) 553451.64N 0103910.76E △ NISEM 553929N 0095456E △ AMRAM 555637N 0063803E △ NAMIK 562253N 0052627E △ VAXIT (FIR BDRY) 563215N 0050000E							Extremity of P60
	279.7	25.5	FL 660 FL 195	C		↓	CDR1: NISEM – AMRAM H24 ALTN: ODN – L975 – VES - L983 – AMRAM
		112.4					
	303.8	47.9					ATS provided by Copenhagen ACC between VAXIT and ARTEX
		17.4			↑		
	122.4						For continuation, see AIP UK

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR RDL	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.	Direction of Cruising levels		REMARKS
				Odd	Even	
P144 (RNP 5) △ SOPTO (FIR BDRY) 551820N 0050000E △ GOLUM 552700N 0051700E △ BUSOM 555631N 0052341E						For conyination, see AIP UK
	048.0	13.0	FL 660 FL 195	C	↓	ATS provided by Copenhagen ACC between LARGA and SOPTO
	007.2	29.8				
	187.3				↑	Extremity of P144
P601 (RNP 5) △ VESTA VOR/DME (VES) 553611.33N 0081759.86E △ EPILO 554940.16N 0082444.21E △ KEMEG 564315N 0085221E △ TUXUR 570839.24N 0090555.08E △ LAGUM 572720N 0091606E △ NIROD (FIR BDRY) 580443N 0093700E						Extremity of P601
	015.7	14.0	FL 660 FL 195	C	↓	RNAV OPS only
		55.8	FL 195 3500 FT MSL	E		
		26.5				
		19.5				
	196.8	39.1			↑	
						For continuation, see AIP Norway
P602 (CDR) (RNP 5) △ AMSEV (FIR BDRY) 574031N 0084808E △ VESTA VOR/DME (VES) 553611.33N 0081759.86E						For continuation, see AIP Norway CDR1: FRI 1700 - MON 0600 (FRI 1600 - MON 0500) MON 2300 - FRI 0600 daily 2300 - 0600 (MON 2200 - FRI 0500 daily 2200 - 0500) CDR2: Outside said hours ALTN: T600 RNAV OPS only Extremity of P602
	187.8	125.7	FL 660 FL 195 FL 195 3500 FT MSL	C E	↓	
	007.4				↑	

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR RDL	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.	Direction of Cruising levels		REMARKS
				Odd	Even	
P603 (CDR) (RNP 5) △ GREFI (FIR BDRY) 550000N 0055132E △ GARKA 554635N 0052540E △ BUSOM 555631N 0052341E △ NAMIK 562253N 0052627E △ KARLI 570000N 0053027E	342.6	49.0	FL 660 FL 195	C	↓	For continuation, see AIP Netherlands CDR: GREFI-BUSOM: CDR1: FRI 1700 - MON 0700 (FRI 1600 - MON 0600) MON - FRI 2300 0700 Daily 2300-0700 (MON - FRI 2200 0500) Daily 2200-0600 CDR2: Outside said hours ALTN: KARLI - P613 – VES - N873 or BUSOM - P144 - GOLUM – N866 For continuation, see AIP Norway
	162.3	10.0				
	353.6					
	173.6	26.5				
	003.3					
	183.4	37.3			↑	
P605 (RNP 5) △ MEGAR (FIR BDRY) 542806N 0113854E △ GESKA 543703N 0115557E △ KOSMO 550055N 0124349E △ MOSAT (FIR BDRY) 550231N 0124717E	047.8	13.3	FL 660 FL 195 FL 195	C E	↓	For continuation, see AIP Germany RNAV only Sweden FRA Entry For continuation, see AIP Sweden
	048.9	36.5	3500 FT MSL		↓	
		2.6				
P613 (RNP 5) △ VESTA VOR/DME (VES) 553611.33N 0081759.86E △ NUGLO 555231N 0074652E △ KARLI (FIR BDRY) 570000N 0053027E	313.1	24.0	FL 660 FL 195	C	↓	Extremity of P613 For continuation, see AIP Norway
	VES 312					
	129.6	101.5			↑	
P614 (CDR) (RNP 5) △ RAMME VOR/DME (RAM) 562842.14N 0081114.51E △ RAMUD (FIR BDRY) 570326N 0073626E	331.5	39.6	FL 660 FL 195	C	↓	Extremity of P614 CDR1: FRI 1700 - MON 0600 (FRI 1600 - MON 0500) MON 2300 - FRI 0600 daily 2300 - 0600 (MON 2200 - FRI 0500 daily 2200 - 0500) CDR2: Outside said hours ALTN: VES – P613 - KARLI For continuation, see AIP Norway
	151.0				↑	

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR RDL	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.	Direction of Cruising levels		REMARKS		
				Odd	Even			
P622 (CDR) (RNP 5) △ AALBORG VOR/DME (AAL) 570613.39N 0095944.08E △ RETKA (FIR BDRY) 575929N 0092619E	341.6	56.2	FL 660 FL 195 FL 195 3500 FT MSL	C E	↑	↓	Extremity of P622 CDR1: H24 ALTN: AAL – M725 - LAVKO For continuation, see AIP Norway	
	161.2							
P729 (RNP 5) △ DOSUR (FIR BDRY) 545131N 0091139E △ TALSA 550625N 0094111E △ TUDLO 551633N 0103852E △ LUGAS 551947N 0105747E △ COPENHAGEN AREA 552429N 0112622E △ KORSÅ VOR/DME (KOR) 552621.71N 0113753.51E	048.5	22.6	FL 660 FL 245	C	↓		For continuation, see AIP Germany Extremity of P729	
	072.5	34.6	FL 660 FL 195	C				
	KOR 253	11.3	17.0	FL 195 3500 FT MSL	E			
		17.0						
	6.8		FL 660 3500 FT MSL	C				
P730 (RNP 5) △ TALSA 550625N 0094111E △ CODAN VOR/DME (CDA) 550005.40N 0122245.16E	092.8	92.8	FL 660 FL 245	C	↓		Extremity of P730 Extremity of P730	
P850 (RNP 5) △ DANKO (FIR BDRY) 570000N 0064152E △ OKMAM 565345.94N 0063556.56E △ GOLUM 552700N 0051700E	207.5	7.1	FL 660 FL 195	C		↓	For continuation, see AIP Norway Extremity of P850	
	26.4	97.1			↑			

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR RDL	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.		Direction of Cruising levels		REMARKS
					Odd	Even	
<u>P990 (CDR) (RNP 5)</u> △ MIKSI 561210N 0113527E △ ASLID 562046.98N 0112038.02E △ AALBORG VOR/DME (AAL) 570613.39N 0095944.08E △ KOVIK (FIR BDRY) 573335N 0083427E							Extremity of P990 CDR1: FRI 1700 - MON 0600 (FRI 1600 - MON 0500) MON 2300 - FRI 0600 daily 2300 - 0600 (MON 2200 - FRI 0500 daily 2200 - 0500) CDR2: Outside said hours ALTN: AAL – M725 - LAVKO For continuation, see AIP Norway
	316.4	11.9	FL 660 FL 195	C		↓	
	AAL 134	63.7	FL 195 3500 FT	E			
	301.3	53.5	MSL			↑	
	120.1						
<u>P992 (CDR) (RNP 5)</u> △ ATTUS (FIR BDRY) 545359N 0084658E △ VESTA VOR/DME (VES) 553611.33N 0081759.86E △ NARBA 555112N 0080650E △ LINVI (FIR BDRY) 570000N 0071338E							For continuation, see AIP Germany CDR: ATTUS – VES FL 080 – FL 240 CDR1: FRI 1100 - MON 0700 (FRI 1000 - MON 0600) MON 2300 - FRI 0600 daily 2300 – 0600 (MON 2200 - FRI 0600 daily 2200 - 0500) CDR2: Outside said hours ALTN: LBE - P615 – ALS - DCT - VES CDR: NARBA–LINVI all Levels CDR1: FRI 1700 - MON 0600 (FRI 1600 - MON 0500) MON 2300 - FRI 0600 daily 2300 - 0600 (MON 2200 - FRI 0500 daily 2200 - 0500) CDR2: Outside said hours ALTN: VES – P613 - KARLI For continuation, see AIP Norway
	338.8	45.3	FL 660 FL 195 FL 195 3500 FT	C E		↓	
	158.4	16.3	MSL				
	337.4	75.0	FL 660 FL 195	C		↑	
	156.5						
<u>P999 (RNP 5)</u> △ LANGO 545644.27N 0105122.71E △ ALSIE VOR (ALS) 545419.49N 0095936.16E △ AMRAK (FIR BDRY) 544928N 0094502E							For continuation, see AIP Germany Extremity of P999
	059.8	30.0	FL 245 FL 195 FL 195	C E		↓	
	240.0	9.7	3500 FT MSL			↑	
	058.8						

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR RDL	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.	Direction of Cruising levels		REMARKS	
				Odd	Even		
Q280 (RNP 5) △ GESKA 543703N 0115557E △ NEDIK (FIR BDRY) 542911N 0120354E	149.5	9.1	FL 245 FL 195 FL 195 3500 FT MSL	C E	↓ ↑	Extremity of Q280 RNAV only For continuation, see AIP Germany	
	329.6						
T51 (RNP 5) △ KELOM 555003N 0111007E △ KOPEX 545813.37N 0112803.68E	168.7	52.9	FL 245 FL 195 FL 195 3500 FT MSL	C E	↓	Extremity of T51 RNAV OPS only Extremity of T51	
T53 (RNP5) △ ALSIE VOR (ALS) 545419.49N 0095936.16E △ TUDLO 551633N 0103852E △ LUGAS 551947N 0105747E COPENHAGEN AREA 552429N 0112622E △ KORSA VOR/DME (KOR) 552621.71N 0113753.51E	045.1	31.7	FL 660 FL 195 FL 195 3500 FT MSL	C E	↓	Extremity of T53	
	ALS 044						
	073.3	11.3					
	KOR 253	17.0					
		6.8		FL 660 3500 FT MSL	C		Extremity of T53

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR RDL	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.		Direction of Cruising levels Odd Even		REMARKS
T55 (CDR) (RNP 5) △ TINAC (FIR BDRY) 561503N 0050000E △ EVAKI 561422N 0072852E △ INTET 561334.69N 0092441.09E △ LUTUS 560603N 0095940E △ TESPI 555354N 0103152E △ ROSBI 555058N 0105555E △ COPENHAGEN AREA 554704N 0112211E △ TRANO VOR/DME (TNO) 554626.74N 0112621.08E							For continuation, see AIP UK ATS provided by Copenhagen ACC between TINAC and ITSUX CDR1: EVAKI – LUTUS H24 ALTN: EVAKI – P619 – VES - L983 - TUDLO Extremity of T55
	089.4 <i>RAM 264</i>	83.1	FL 660 FL 195	C	↓		
	271.5						
	089.9 <i>RAM 109</i>	64.6	FL 660 FL 195	C			
	271.5		FL 195	E		↑	
	110.9	21.0	3500 FT MSL				
	291.3						
	123.7	21.8					
	102.1	13.9					
	<i>TNO 283</i>	15.3					
			FL 660 3500 FT MSL	C			
		2.4					

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR DME	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.	Direction of Cruising Levels		REMARKS	
				Odd	Even		
<u>T56 (RNP 5)</u> △ VESTA VOR/DME (VES) 553611.33N 008175986E △ BILLUND TMA BDRY 554051N 0083855E △ BEBUL 554846.35N 0091521.37E △ BILLUND TMA BDRY 555254N 0093447E △ ABINO 555806N 0095940E △ TESPI 555354N 0103152E △ ROSBI 555058N 0105555E △ COPENHAGEN AREA 554704N 0112211E △ TRANO VOR/DME (TNO) 554626.74N 0112621.08E	068.3	12.7	FL 660 FL 195 FL 195 3500 FT MSL	C E	↓	Extremity of T56 CDR1: VES – ABINO H24 ALTN: VES – L983 - TUDLO	
	VES 068	22.1	FL 660 FL 195 FL 195 FL 75	C E			
		11.7	FL 75 3500 FT MSL	D			
		14.9	FL 660 FL 195 FL 195 3500 FT MSL	C E	↑		
	249.8	102.9	18.6				
		13.9					
	TNO 283	15.3					
		2.4	FL 660 3500 FT MSL				C
							Extremity of T56
	<u>T57 (RNP 5)</u> △ GESKA 543703N 0115557E △ MONAK 545644N 0121849E △ CODAN VOR/DME (CDA) 550005.40N 0122245.16E	033.7	23.7	FL 660 FL 195 FL 195 3500 FT MSL	C E		↓
CDA 212		4.0					
						Extremity of T57	

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR RDL	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.		Direction of Cruising levels Odd Even		REMARKS
<u>T58 (RNP 5)</u> △ SONAS 551841.60N 0113511.35E △ KOPEX 545813.37N 0112803.68E	191.3 <i>KOR 190</i>	20.9	FL 245	C		↓	Extremity of T58
			FL 195	E			
			FL 195				Extremity of T58
			3500 FT				
			MSL				
<u>T59 (RNP 5)</u> △ GESKA 543703N 0115557E △ ROBUS 550634N 0114311E △ KETAL 551605N 0112158E △ COPENHAGEN AREA 552141N 0113038E △ KORSVA VOR/DME (KOR) 552621.71N 0113753.51E	346.1	30.5	FL 660	C		↓	Extremity of T59 RNAV only
			FL 195	E			
	308.2	15.4					
				3500 FT			
	041.3	7.5					
	<i>KOR 221</i>			MSL			
			FL 660	C			Extremity of T59
			3500 FT				
			MSL				
<u>T138 (CDR) (RNP 5)</u> △ AALBORG VOR/DME (AAL) 57061339N 009594408E △ TINAC (FIR BDRY) 561503N 0050000E	255.0	173.1	FL 660	C		↓	Extremity of T138 CDR: AAL - TINAC CDR 1: FRI 1700 - MON 0600 (FRI 1600 - MON 0500) MON 2300 - FRI 0600 daily 2300 - 0600 (MON 2200 - FRI 0500) daily 2200 - 0500) CDR 2: outside said hours ALTN: AAL - N866 - T55 - TINAC
			FL 245				
	071.0					↑	Extremity of T138
<u>T148 (RNP 5)</u> △ TUKTU 561603N 0105832E △ LOMPU 543532N 0111210E	175.5	101.0	FL 660	C		↓	Extremity of T148
			FL 245				
							Extremity of T148

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO)	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.	Direction of Cruising levels		REMARKS
				Odd	Even	
<u>T296 (RNP 5)</u> △ NIKDA (FIR BDRY 543631N 0121708E △ MONAK 545644N 0121849E △ CODAN VOR/DME (CDA) 550005.40N 0122245.16E						For continuation, see AIP Germany
	002.7	20.3	FL 660 FL 195	C	↓	
	034.0 CDA 212	4.0	FL 195 3500 FT MSL	E		
						Extremity of T296
<u>T299 (RNP5)</u> △ KOSEB (FIR BDRY) 544648N 0123552E △ MONAK 545644N 0121849E △ CODAN VOR/DME (CDA) 550005.40N 0122245.16E						For continuation, see AIP Germany
	315.4	14.0	FL 660 FL 195	C	↓	
	034.0 CDA 212	4.0	FL 195 3500 FT MSL	E		
						Extremity of T299
<u>T402 (RNP 5)</u> △ AMSUR (FIR BDRY) 560602N 0123350E △ GOLMI 554638N 0123059E						For continuation, see AIP Sweden Sweden FRA exit ATS provided by Sweden ACC between AMSUR and GOLMI
	184.7	19.5	FL 660 FL 195	C	↓	
						For continuation, see AIP Germany

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR RDL	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.		Direction of Cruising levels Odd Even		REMARKS	
<u>T503 (RNP 5)</u> △ NEXEN 544838.80N 0113730.87E △ GIMRU (FIR BDRY) 543336N 0111849E	216.3 <i>KAS 214</i>	18.6	FL 660	C	↓		Extremity of T503 For continuation, see AIP Germany	
			FL 195	E				FL 195
			MSL					
<u>T504 (RNP 5)</u> △ KOPEX 545813.37N 0112803.68E △ LOMPU (FIR BDRY) 543532N 0111210E	202.2	24.5	FL 660	C		↓	Extremity of T504 For continuation, see AIP Germany	
			FL 195	E				FL 195
			MSL					
<u>T505 (CDR) (RNP 5)</u> △ GOLGA 561959.06N 0114142.18 △ ASLID 562046.98N 0112038.02E △ TUKTU 561603N 0105832E △ RAMME VOR/DME (RAM) 562842.14N 0081114.51E △ KARLI (FIR BDRY) 570000N 0053027E	274.0	11.8	FL 660	C		↓	Extremity of T505 CDR1: TUKTU – RAM H24 ALTN: TUKTU – M725 – AAL - L621 – AMSEV CDR: RAM - KARLI	
	288.3	13.2	FL 195	E				FL 195
				MSL				CDR1: FRI 1700 - MON 0600 (FRI 1600 - MON 0500) MON 2300 - FRI 0600 daily 2300 - 0600 (MON 2200 - FRI 0500 daily 2200 - 0500)
	278.9	93.9						CDR2: Outside said hours ALTN: RAM – N866 – EVAKI - P619 - MITSU
	<i>RAM 097</i> 096.6							
	290.6	93.9						
<i>RAM 290</i> 108.4			FL 660	C	↑		Extremity of T505	
			FL 195					

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR RDL	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.		Direction of Cruising levels Odd Even		REMARKS
<u>T506 (CDR) (RNP 5)</u> △ GOLGA 561959.06N 0114142.18E △ LAPMA 563733.44N 0112051.15E	326.9	21.1	FL 660	C		↓	Extremity of T506
			FL 195				
<u>T508 (RNP 5)</u> △ DISGO 550905.7N 0124400.8E △ ROBUS 550634N 0114311E	266.3	35.0	FL 660	C		↓	Extremity of T508
			FL 195				
<u>T550 (RNP 5)</u> △ CODAN VOR/DME (CDA) 550005.40N 0122245.16E △ MARIP 544323N 0112515E	243.6	37.1	FL 660	C		↓	Extremity of T550
			FL 245				
<u>T551 (CDR) (RNP 5)</u> △ BINRO (FIR BDRY) 580938N 0094710E △ AALBORG VOR/DME (AAL) 570613.39N 0095944.08E △ TESPI 555354N 0103152E △ ROSBI 555058N 010555E △ COPENHAGEN AREA 554704N 0112211E △ TRANO VOR/DEM (TNO) 554626.74N 0112621.08E	173.9	63.8	FL 660	C		↓	For continuation, see AIP Norway CDR1: BINRO - AAL ALTN: SKI - P602 - LAVKO - M725 - AAL Extremity of T551
	166.0	74.6	FL 195				
	AAL 165		MSL				
	102.1	13.9					
	TNO 283	15.3					
	2.4		FL 660	C			

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR RDL	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.	Direction of Cruising level		REMARKS		
				Odd	Even			
<u>T600 (RNP 5)</u> △ NERDO (FIR BDRY) 575317N 0091343E △ LAGUM 572720N 0091606E						For continuation, see AIP Norway RNAV OPS only Extremity of T600		
	177.1		FL 660 FL 195 FL 195	C E	↑		↓	
	357.2	26.0	3500 FT MSL					
<u>T660 (RNP 5)</u> △ BAMPI 555034.46N 0081610.64E △ NARBA 555112N 0080650E △ NAVIK 555147N 0075811E △ NUGLO 555231N 0074652E △ AMRAM 555637N 0063803E						Extremity of T660 Extremity of T660		
	276.9	5.3	FL 660 FL 195	C			↓	
		4.9						
		6.4						
		38.9			↑			
<u>Z32 (RNP 5)</u> △ MOLUD (FIR BDRY) 562040N 0121607E △ ROKAM 561901N 0121100E △ TOBMI 561536N 0120342E △ KELOM 555003N 0111007E △ ODIN VOR/DME (ODN) 553451.64N 0103910.76E △ ALSIE VOR (ALS) 545419.49N 0095936.19E						For continuation, see AIP Sweden ATS FL95 – FL245 delegated to Sweden between MOLUD and TOBMI. for details see AIP Sweden CDR1: ROKAM - ODN all levels ALTN: ROKAM direct TNO direct ALS or for traffic via KELOM – T51: ROKAM direct TNO direct KOPEX Extremity of Z32		
	239.9	3.3	FL 245 FL 95 FL 95	C E			↓	
	229.9	5.3	3500 FT MSL					
		ODN 048	39.3	FL 245 FL 95 FL 95	C E			
			23.1	3500 FT MSL				
		048.8						
		209.4 ODN 208 ALS 028 028.8	46.4				↑	

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR RDL	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.		Direction of Cruising level		REMARKS
					Odd	Even	
Z700 (CDR) (RNP 5) △ GITER (FIR BDRY) 543840N 0110000E △ CODAN VOR/DME /CDA) 550005.40N 0122245.16E	065.2	52.3	FL 660 FL 245	C	↓		For continuation, see AIP Germany CDR1: FRI 1900 - SAT 0700 (FRI 1800 - SAT 0600) SAT 1300 - MON 0700 (SAT 1200 - MON 0600) CDR2: Outside said hours FL 310 - FL 660 (FL 250 - FL 290 not AVBL) ALTN: P729 - TALSA - P730 - CDA
							Extremity of Z700
Z701 (CDR) (RNP 5) △ CODAN VOR/DME (CDA) 550005.40N 0122245.16E △ MARIP 544323N 0112515E △ GOBOT (FIR BDRY) 543722N 0110510E	243.6	37.1	FL 660 FL 245	C		↓	Extremity of Z701 CDR1: FRI 1900-SAT 0700 (FRI 1800-SAT 0600) SAT 1300-MON 0700 (SAT 1200-MON 0600) CDR2: Outside said hours FL 300 - FL 660 (FL 250 - FL 290 not AVBL) ALTN: CDA - M611 - LANGO - T502 - ALASA For continuation, see AIP Germany
	242.8	13.1					
Z702 (RNP 5) △ MEDEL (FIR BDRY) 544957N 0091406E △ TALSA 550625N 0094111E △ AMTOT 560226N 0121049E △ EVBAS 560844N 0122840E	043.2	22.6	FL 660 FL 245	C	↓		For continuation, see AIP Germany.
	055.5	101.8					ATS provided by Sweden ACC between AMTOT and EVBAS Sweden FRA Entry For continuation, see AIP Sweden
	057.6	11.8					

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR RDL	Geod. line Dist. NM	Upper limit Lower limit		Direction of Cruising level		REMARKS
			Airspace CLASS.		Odd	Even	
Z703 (RNP 5) △ KULUD (FIR BDRY) 561538N 0121959E △ ADVOP 560815N 0120638E △ ASVAN 560000.00N 0115600.00E △ ALSIE VOR (ALS) 545419.49N 0095936.16E △ KESUR (FIR BDRY) 545026N 0095315E	220.8	11.1	FL 660 FL 195	C		↓	Sweden FRA Exit For continuation, see AIP Sweden ATS provided by Sweden ACC between KULUD and ADVOP For continuation, see AIP Germany
	220.6	9.5					
	226.0	93.3					
	223.2	5.3	FL 660 FL 245	C			
Z704 (CDR) (RNP 5) △ AMADA (FIR BDRY) 550000N 0062100E △ RASVI (FIR BDRY) 571723N 0080258E	021.8	149.1	FL 660 FL 245	C	↓		For continuation, see AIP Netherlands CDR1: FRI 1700 - MON 0700 (FRI 1600 - MON 0600) MON 2300 - FRI 0700 daily 2300 - 0700 (MON 2200 - FRI 0600 daily 2200 - 0600) CDR2: Outside said hours ALTN: N873 - VES - P601 LAGUM – T600 - PIPEX For continuation, see AIP Norway
Z705 (CDR) (RNP 5) △ KOPIN (FIR BDRY) 571524N 0075910E △ AMADA (FIR BDRY) 550000N 0062100E	202.7	146.0	FL 660 FL 245	C		↓	For continuation, see AIP Norway CDR1: FRI 1700 - MON 0700 (FRI 1600 - MON 0600) MON 2300 - FRI 0700 daily 2300 - 0700 (MON 2200 - FRI 0600 daily 2200 - 0600) CDR2: Outside said hours ALTN: PIPEX – P602 – VES - N873 For continuation, see AIP Netherlands

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR RDL	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.	Direction of Cruising level		REMARKS
				Odd	Even	
<u>Z706 (RNP 5)</u> △ KOKOR (FIR BDRY) 542741N 0114124E △ GESKA 543703N 0115557E △ NOVPO 560624N 0121428E	042.0	12.6	FL 660 FL 245		↓	For continuation, see AIP Germany
	006.6	90.1				
<u>Z708 (CDR) (RNP 5)</u> △ KUGAL (FIR BDRY) 550000N 0073714E △ VESTA VOR/DME (VES) 553611.33N 0081759.86E	032.4	43.0	FL 660 FL 245		↓	For continuation, see AIP Germany CDR1: FRI 1700 - MON 0600 (FRI 1600 - MON 0500) MON 2300 - FRI 0600 daily 2300 - 0600 (MON 2200 - FRI 0500 daily 2200 - 0500) CDR2: Outside said hours ALTN: N873-VES
						Extremity of Z708
<u>Z709 (CDR) (RNP 5)</u> △ VESTA VOR/DME (VES) 553611.33N 0081759.86E △ LANUL (FIR BDRY) 550000N 0074150E	209.9	41.6	FL 660 FL 245		↓	Extremity of Z709 CDR1: FRI 1700 - MON 0600 (FRI 1600 - MON 0500) MON 2300 - FRI 0600 daily 2300 - 0600 (MON 2200 - FRI 0500 daily 2200 - 0500) CDR2: Outside said hours Not avbl for traffic originating from EKBI, EKEB and EKVJ ALTN: VES - N873 For continuation, see AIP Germany

Route designation (RNP type) Significant points Name and PSN (WGS-84)	Initial track (GEO) VOR RDL	Geod. line Dist. NM	Upper limit Lower limit Airspace CLASS.		Direction of Cruising level		REMARKS
					Odd	Even	
Z710 (CDR) (RNP 5) △ VESTA VOR/DME (VES) 553611.33N 0081759.86E △ LUTIR (FIR BDRY) 550351N 0082458E							Extremity of Z710
	173.0	32.6	FL 660 FL 245	C	↓		CDR1: FRI 1100 - MON 0700 (FRI 1000-MON 0600) MON 2300 - FRI 0600 daily 2300 - 0600. (MON 2200-FRI 0500 daily 2200 - 0500) CDR2: Outside said hours FL 300 – FL 660 (FL 250 – FL 290 not AVBL) ALTN: VES-P992- LBE For continuation, see AIP Germany
	353.1					↑	
Z711 (RNP 5) △ BAMOR (FIR BDRY) 542646N 0115029E △ GESKA 543703N 0115557E							For continuation, see AIP Germany.
	017.1	10.8	FL 660 FL 245	C		↓	Extremity of Z711
Z716 (RNP 5) △ AALBORG VOR/DME (AAL) 570613.39N 0095944.08E △ VAXIT (FIR BDRY) 563215N 0050000E							Extremity of Z716
	260.4	168.2	FL 660 FL 245	C		↓	CDR: AAL-VAXIT CDR1: FRI 1700-MON 0600 (FRI1600-MON 0500) MON 2300-FRI 0600 Daily 2300-0600 (MON 2200-FRI 0500 Daily 2200-0500) CDR2: Outside said hours ALTN: AAL-N866-N581- VAXIT
	076.2				↑		Extremity of Z716
Z731 (RNP 5) △ ALSIE VOR (ALS) 545419.49N 0095936.16E △ GOTEX 571217.72N 0111622.36E △ MAKUR (FIR BDRY) 572547N 0112425E							Extremity of Z731
	016.8	144.8	FL 660 FL 195 FL 195	C E	↓		
	017.8	14.2	3500 FT MSL				Sweden FRA Entry For continuation, see AIP Sweden

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Name Code Designator	Coordinates	ATS route or other route
KOKAK	552929N 0124254E	L975
KOKOR	542741N 0114124E	Z706
KOPEX	545813N 0112804E	SID EKCH and other AD's in Copenhagen Area, M611, T51, T58 T504
KOPIM	560802N 0122954E	N872
KOSEB	544648N 0123552E	T299
KOSMO	550055N 0124349E	L983, P605
KOVIK	573335N 0083427E	P990
KUBIS	551323N 0122854E	STAR EKCH
KUGAL	550000N 0073714E	Z708
KULUD	561538N 0121959E	L621
KUNAR	553623N 0070000E	KY61, KY62
KUTAX	551333.13N 0123206.00E	Waypoint EKCH STAR 22L RNAV
KUVUS	572016.57N 01100.00E	N607
LAGUM	572720N 0091606E	L621, P601
LAMOX	554501.38N 0125143.30E	RNAV FIX RWY 22L/R EKCH
LANGO	545644.27N 0105122.71E	SID EKCH and DEP other AD's in Copenhagen Area, M611, P999
LANUL	550000N 0074150E	Z709
LAPMA	563733.44N 0112051.15E	L621, T506
LARSO	553355.7N 0123429.8E	SID 22L EKCH
LASGI	560648N 0122716E	N872
LATVO	553354N 0085450E	RNAV FIX RWY 26 EKEB
LAVKO	574800N 0090303E	M725
LEBDA	552225N 0123743E	N851
LEBLO	550626.42N 0143509.77E	IAC GPS procedure at EKRN
LESRA	552308N 0050000E	L975
LIBRI	545141.63N 0100724.19E	RNAV (GPS) RWY 32 EKSB
LILBI	551511N 0124058E	L990
LINVI	570000N 0071338E	P992

Name Code Designator	Coordinates	ATS route or other route
LOBBI	571905N 0112953E	N873
LOKSA	554505N 0093048E	RNAV FIX RWY 27 EKBI
LOMPU	543532N 0111210E	T504
LONPA	550347.50N 0092746.83E	RNAV (GPS) RWY 14 EKSB
LUGAS	551947N 0105747E	primary holding EKCH, STAR EKCH, P729, T53
LUKAG	550422.18N 0142249.96E	IAC GPS procedure at EKRN
LUPUR	545928N 0120303E	L990, M611
LUTAN	552812N 0060000E	KY60
LUTIR	550351N 0082458E	Z710
LUTUS	560603N 0095940E	M602, P615, T55
MADAG	562250N 0120049E	L621, M869
MAKEL	542658N 0114801E	N851
MAKUR	572547N 0112425E	N607
MALIX	554511N 0121835E	RNAV FIX RWY 21 EKRK
MARIP	544323N 0112515E	L990, N850, T550, Z701
MATEK	550059N 0124803E	L983
MAXEL	551233,31N 0115408,93E	EKCH SID and DEP other AD within Copenhagen Area, T504, N850
MEDEL	544957N 0091406E	Z702
MEGAR	542806N 0113854E	P605
MIKRO	552454.29N 0080959.00E	SID EKBI, N873
MIKSI	561209.89N 0113526.64E	SID EKCH and DEP other AD's in Copenhagen Area.
MIMDA	554458N 0080555E	Tacan Blue One
MIRGO	560208,51N 0115952,89E	SID EKCH and DEP other AD's in Copenhagen Area
MISBI	555355N 0124021E	N850
MITSI	570000N 0062721E	P619
MOLUD	562040N 0121607E	Z32
MOMAP	545602N 0100823E	RNAV FIX RWY 32 EKSB
MONAK	545644N 0121849E	STAR EKCH, T57, T299
MOSAT	550231N 0124717E	P605

EK R33 VEJERS 553706N 0081007E - 553733N 0080605E - 554128N 0080400E - 553406N 0075915E - 553218N 0075925E - 553246N 0080620E - 553706N 0081007E.	<u>16.500 FT MSL</u> GND	BILLUND APP Active: H24 AMC manageable
EK R34 BORDRUP 553258N 0081015E - 553651N 0081217E - 553733N 0080605E - 554128N 0080400E - 554038N 0081705E - 553348N 0081845E - 553258N 0081015E.	<u>FL125</u> GND	BILLUND APP Active: H24 AMC manageable
EK R35 HENNE 554128N 0080400E - 554613N 0081105E - 554613N 0081545E - 554038N 0081705E - 554128N 0080400E.	<u>FL125</u> GND	BILLUND APP Active: H24 AMC managweable
EK R38 RØMØ ØST 552000N 0081700E - 552000N 0083955E - 551700N 0084500E - 550800N 0084500E - 550500N 0084000E - 550500N 0081848E - 551000N 0081245E - 552000N 0081700E	<u>24.500 FT MSL</u> GND	SKRYDSTRUP APP/TWR Active: H24 AMC manageable
EK R39 BORRIS SØNDERLAND 555428N 0083555E - 555728N 0083955E - 555458N 0084655E - 555158N 0084355E - 555428N 0083555E.	<u>12.000 FT MSL</u> GND	BILLUND APP/TWR Active: H24 AMC manageable
EK R40 BORRIS ARTILLERIOMRÅDE 555328N 0083255E - 555518N 0083425E - 555928N 0084340E - 555358N 0085455E - 555148N 0084955E - 555328N 0083255E.	<u>16.500 FT MSL</u> GND	BILLUND APP/TWR Active: H24 AMC manageable
EK R44 HALK 550918N 0093056E - 551058N 0093856E - 550828N 0094656E - 550458N 0093826E - 550918N 0093056E.	<u>7.000 FT MSL</u> GND	SKRYDSTRUP APP/TWR Active: H24
EK R45 HEVRING 563105N 0102319E - 563457N 0102315E - 563335N 0103039E - 563242N 0103126E - 563036N 0102509E - 563105N 0102319E.	<u>12.000 FT MSL</u> GND	AARHUS APP/TWR Active: H24
EK R47 TRANUM NORD 571521N 0092811E - 571558N 0092935E - 571237N 0093905E - 571024N 0093805E - 571521N 0092811E	<u>3.500 FT MSL</u> GND	AALBORG APP/TWR Active: H24
EK R48 TRANUM SYD 570758N 0093155E - 570958N 0092055E - 571204N 0092055E - 571521N 0092811E - 571024N 0093805E - 570758N 0093155E.	<u>12.000 FT MSL</u> GND	ALBORG APP/TWR Active: H24 AMC manageable

<p>ED D28 OSTSEE/SCHÖNHAGEN 544500N 0100924E - 544500N 0101812E - 543840N 0102512E - 543557N 0103500E - 543400N 0103500E - 543239N 0103137E - 543535N 0102024E - 544500N 0100924E.</p>	<p><u>48.000 FT MSL</u> SL</p>	<p>MON 0700(0600)- FRI 1700(1600). If required, the times of activity will be extended to Saturdays, Sundays and holidays. This will be announced by NOTAM. BREMEN information: Flottenkdo 24960 Glücksburg (Ostsee) Postfach 65 Tel: (0 46 31) 6 66 32 11</p>
<p>ED D46 NORDSEE 550000N 0063000E - 550000N 0071500E - 551000N 0072000E - 551000N 0075000E - 550000N 0074325E - 541500N 0071322E - 541500N 0070000E - 544000N 0070000E - 544000N 0063000E - 550000N 0063000E.</p>	<p><u>48.000 FT MSL</u> SL</p>	<p>MON-THU 0700(0600) -2300(2200) FRI 0700(0600) -1500(1400) BREMEN information: Lw Kdo Nord A3B Römerstr. 122 47546 KALKAR Tel: (02824) 90 13 53</p>
<p>EK D301 FANOE – TSA 553227N 0080542E – 550000N 0074257E – 550000N 0060226E – 553033N 0054545E – 555001N 0063924E – 553227N 0080542E.</p>	<p><u>FL660</u> GND</p>	<p>Active: H24 AMC-manageable area The lower limit of the area will be restricted to FL55, when commercial helicopter operations to/from oil- /gasinstallations, windfarms and animal migration flights in the North Sea will take place. These flights shall be in contact with Copenhagen Information before entering EK D301.</p>
<p>EK D302 HANSTHOLM A - TSA 562222N 0073141E – 565420N 0064850E – 570000N 0065607E – 570000N 0073000E – 573623N 0083959E – 572522N 0090327E – 571446N 0085733E – 570713N 0083625E – 564141N 0082741E – 563347N 0080529E – 562222N 0073141E.</p>	<p><u>FL660</u> GND</p>	<p>Active: H24 AMC-manageable area</p>
<p>EK D303 HANSTHOLM B - TSA 564650N 0084218E – 564141N 0082741E – 570713N 0083625E – 571446N 0085733E – 564650N 0084218E.</p>	<p><u>FL660</u> FL55</p>	<p>Active: H24 AMC-manageable area</p>
<p>EK D304 DOGGER - TSA 550458N 0050000E – 552232N 0052413E - 553033N 0054545E – 550000N 0060226E - 550000N 0050000E</p>	<p><u>FL660</u> GND</p>	<p>Active: H24 AMC-manageable area The lower limit of the area will be restricted to FL55, when commercial helicopter operations to/from oil- /gasinstallations, windfarms and animal migration flights in the North Sea will take place. These flights shall be in contact with Copenhagen Information before entering EK D304</p>
<p>EK D350 YDERFLAK 560643N 0111026E - 560118N 0110436E - 560658N 0110141E - 560918N 0110726E - 560643N 0111026E</p>	<p><u>6.500 FT MSL</u> GND</p>	<p>Gun firing Active: H24 AMC manageable</p>
<p>EK D351 SCHULTZ GRUND 560643N 0111026E - 560918N 0110726E - 561048N 0111106E - 561038N 0112326E - 560643N 0111026E.</p>	<p><u>UNL</u> GND</p>	<p>Gun firing Active: H24 AMC manageable</p>

ENR 5.4 AIR NAVIGATION OBSTRUCTIONS

1. NOTIFICATION

Notification and marking of AIR NAVIGATION OBSTRUCTIONS will be made in accordance with the following rules:

- Obstructions of 328 ft (100m) AGL and higher will be entered in MIL AIP DENMARK.
- Obstructions below 328 ft AGL will be entered in MIL AIP DENMARK when deemed necessary, i.e. mainly when situated in the vicinity of airfields etc.

2. MARKING

Obstructions of 492 ft (150 m) AGL or higher will be marked according to regulations laid down in ICAO ANNEX 14.

Certain obstructions below 492 ft AGL will be marked as mentioned above, when situated in the vicinity of airfields etc.

3. SPECIFICATIONS OF OBSTRUCTIONS

Above mentioned AIR NAVIGATION OBSTRUCTIONS within KØBENHAVN FIR and on the island of BORNHOLM may be found on subsequent pages.

Note: An asterisk () is used to indicate coordinates that do not meet the accuracy requirements as stated in ICAO Annex 15.*

DESIGNATION	TYPE	POSITION (WGS-84)	HEIGHT(FT) MSL GND	OBST LGT	REG NO
AABENRAA, (Enstedværket 1)	Chimney	550114N 0092632E*	601 593	LIL F R	451
AABENRAA, (Enstedværket 2)	Chimney	550112N 0092612E*	425 419	No	449
AALBORG (Nordjyllandsværket 1)	Chimney	570431N 0100226E	565 558	LIH FLG W	114
AALBORG (Nordjyllandsværket 2)	6 wind turbines in a row	From 570448.82N 0100150.94E via 570431.74N 0100211.31E and 570416.59N 0100245.17E to 570402.74N 0100312.59E	371 365	LIM FLG R on turbine cap in each end of the row only	397 398 399
AALBORG (Nordjyllandsværket 3)	Chimney	570425N 0100234E	374 368	LIL F R	113
AALBORG (Nordjyllandsværket 4)	Chimney	570429N 0100231E	374 368	LIL F R	113
AALBORG (Rørdal)	Chimneys	570337N 0095834E*	405 394	No	448
AALBORG (Østhavn)	3 Wind turbines in a row	From 570220.6N 0100432.4E to 570210.1N 0100501.8E	403 400	LIM FLG R on each turbine cap	409
AARHUS (DLG)	Chimney	560905N 0101303E*	388 381	No	126
AARHUS (Domkirken)	Cathedral	560926N 0101241E*	348 335	No	124
AARHUS (Havn)	8 Cranes in a row	From 560854N 0101354E To 560927N 0101446E*	398 391	LIL F R	296

DESIGNATION	TYPE	POSITION (WGS-84)	HEIGHT(FT) MSL GND	OBST LGT	REG NO
AARHUS (KFK)	Chimney	560906N 0101307E*	375 368	No	117
AARHUS (Midtkraft)	Chimney	560906N 0101246E*	351 341	No	125
ASNÆSVÆRKET 1	Chimney	553940N 0110453E*	735 722	LIH FLG W	130
ASNÆSVÆRKET 2	Chimneys	553943N 0110458E*	506 499	LIH FLG W	131
AVEDØRE HOLME	2 wind Turbines	553608N 0122740E 553606N 0122806E	503 503	No	
AARS	3 Wind Turbines	564409N 0093351E To 564406N 0093311E	619 492	No	
BALE	Mast	561833.19N 0102320.47E	595 252	LIM FLG W	279
BINDESBØL	8 Wind- turbines	Within area 555331N 0083553E 555344N 0083509E 555335N 0083455E 555323N 0083542E 555331N 0083553E	491 443	LIL F R	
BLYKOBBE	Mast	550802N 0144247E*	401 348	LIL F R	503
BLÅHØJ	Windturbine	555218N 0090023E*	558 394	LIL F R	331
BLÅVAND	Masts	553341N 0080700E*	420 338	No	162
BOVBJERG	Mast	563146N 0081001E*	470 335	No	167
BRANDE	Mast	555620N 0090542E*	581 348	No	200
BRANDE (Biomar)	Chimney	555657N 0090735E*	509 345	No	105
BREJL, EJSTRUPHOLM	Windturbine	560041N 0091706E	558 345	LIM FLG R	332
BRORSTRUP	2 Wind Turbines	564620.07N 0093652.05E 564631.06N 0093654.03E	600 492	LIL F R	
BRØNDBYVESTER	Chimney	553904N 0122356E*	454 410	No	143
BRØNDBY STRAND	Chimney	553717N 0122616E*	454 410	No	144
BRØNDERSLEV	Mast	571633N 0095838E*	464 350	No	230
DRANTUM	Windturbine	555423N 0090538E	662 491	LIL F R	
DRONNINGLUND	Mast	570848N 0101305E*	421 350	No	294
DØSTRUP	5 Wind Turbines	570157N 0091534E	425 417	LIL F R	
EBELTOFT	Mast	561050N 0104122E	507 347	LIL F R	
EGBJERG	Mast	544529N 0115903E*	381 341	No	302
EJBY	Chimney	554223N 0122514E*	530 489	LIL F R	141
ESBJERG (Vestkraft)	Chimney	552717N 0082719E*	834 821	LIH FLG W	95
FAARE	3 Wind- turbines	From 562740N 0081453E To 562744N 0081422E	484 438	No	
FARØ-FALSTER	Bridge Towers	545657N 0115841E*	338 338	No	132
FELSTED	Mast	545757N 0093310E*	748 507	LIL F R	208
FINO 3	Mast	551145N 0070936E	394 394	LIH F R	
FORNÆS	Mast	562649N 0105644E*	414 335	No	282
FREDERICIA 1 (Shell)	Chimney	553530N 0094455E*	453 358	No	452
FREDERIKS	2 wind turbines	562118.06N 0091541.56E 562125.55N 0091550.17E	627 388	LIL F R	
FREDERIKSHAVN	4 wind turbines in a row	Between 572651.24N 0103320.21E and 572631.16N 0103355.43E	420 420	LIM FLG R	401
FREJLEV	Masts	570013N 0094929E*	896 722	LIH FLG W	183
FÅBORG	Mast	550645N 0101302E*	420 350	No	295
GLADSAXE	Mast	554404N 0122933E*	837 676	LIH FLG W	479
GIMLINGE	4 Wind turbines	551835N 0112811E To 551904N 0112806E	415 520	No	
GRENÅ	Chimney	562445N 0105453E*	402 394	No	118

EKKA - KARUP AIR BASE**1. AERODROME LOCATION INDICATOR AND NAME**

EKKA – HELICOPTER WING KARUP

2. AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	561750.85N 0090728.66E THR RWY 27L
2	Direction and distance from (city)	233° / 13.5 NM from Viborg 032° / 11.0 NM from Herning
3	AD ELEV REF temperature	171 FT AMSL Not avbl.
4	MAG VAR Annual change	1.2° W (JAN 2010) Decreasing 10'
5	AD administration Postal address Telephone Telefax Telex AFTN Email	Helicopter Wing Karup Herningvej 30, Kølvrå DK-7470 Karup J +45 99 62 49 20 +45 99 62 49 32 66169 EKKAZPZX/EKKAZPZP wkar-wingops@mil.dk
6	Types of traffic permitted	IFR/VFR

3. OPERATIONAL HOURS

1	AD administration	MON - THU 0630-1430 (0530-1330) FRI 0630-1230 (0530-1130)
2	Customs and immigration	As AD administration
3	Health and sanitation	Medical service AVBL
4	AIS briefing office	As AD administration
5	ATS reporting office	As AD administration
6	MET briefing office	MON - FRI 0500-1430 (0400-1330) FRI 0500-1300 (0400-1200) MO EKMK: OUTSIDE MO EKKA HR
7	ATS	H24
8	Fuelling	MON-THU 0630-1800 (0530-1700) UTC FRI 0630-1430 (0530-1330) UTC SAT-SUN 0700-1100 (0600-1000) UTC
9	Handling	As AD administration
10	Security	H24
11	De-icing	As AD administration.Limited capacity.
12	Remarks	PPR 24 HR for landing. Weekends and holidays closed.

4. HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	YES
2	Fuel/oil types	F34 (JET A) F18 (limited capacity), F40/O-123, O-128, O-133, O-134, O-136, O-148, O-149, H-515
3	Fuelling facilities/capacity	Outside operational hours limited capacity (20.000 litres) F34
4	Oxygen	LOX
5	De-icing facilities	Yes
6	Hangar space for visiting aircraft	NIL
7	Repair facilities for visiting aircraft	YES (See AD 2.1-1 Para 3)
8	Remarks	

5. PASSENGER FACILITIES

1	Hotels	Limited MIL accommodation on base, hotels in Viborg and Herning
2	Restaurants	Cafeteria on base
3	Transportation	Buses near main gate
4	Medical facilities	Infirmery on base, hospitals in Viborg and Herning.
5	Bank and post office	In Karup, 3 km
6	Tourist office	In Karup, 3 km
7	Remarks	

6. RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	Mon to Fri 0630 - 1745 (0530 - 1645) CAT 6 (7) 1745 - 0630 (1645 - 0530) CAT 4 (7) Weekends and holidays CAT 4 (7)
2	Rescue equipment	Compliant with CAT
3	Capability for removal of disabled aircraft	Limited
4	Remarks	

7. SEASONAL AVAILABILITY - CLEARING

1	Seasonal availability	All seasons
2	Clearance/removal equipment	Yes
3	Remarks	Caution advised in winter during ice conditions. See snow plan in section AD 1.2-2

8. APRONS, TAXIWAYS AND CHECK LOCATION DATA

1	Apron surface and strength	Concrete/Asphalt LCN btn 35-45
2	Taxiway width, surface and strength	50-80 ft, Asphalt/concrete LCN btn 45-65
3	ACL location and elevation	Nil
4	VOR/INS checkpoints	Nil
5	Remarks	

15. OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location characteristics and hours of operation	NIL
2	LDI indication and LGT Anemometer location and LGT	NIL E and W end of rwy 27I/09r near GP antenna
3	TWY edge and centreline lighting	Blue edge lgt
4	Secondary power supply switch-over time	15 Sec. During Cat II operation 1 Sec. on RWY 27L.
5	Remarks	

16. HELICOPTER LANDING AREA

Helicopter operations from existing RWY's

17. ATS AIRSPACE

1	Designation and lateral limits	KARUP CTR From 562138N 0085025E - 562138N 0085555E - 562448N 0090255E - 562628N 0091755E - 562158N 0092255E - 561358N 0092255E - 561358N 0091725E - 561048N 0091025E - 561048N 0090555E - 561248N 0090255E - 561248N 0085755E - 561328N 0085555E - 561328N 0085025E TO 562138N 0085025E.
2	Vertical limits	GND - 1.500 FT MSL
3	Airspace classification	D
4	ATS unit call sign Language(s)	KARUP TOWER EN, DA
5	Transition altitude	3.000 FT
6	Remarks	For description of KA TMA see ENR 2.1-5

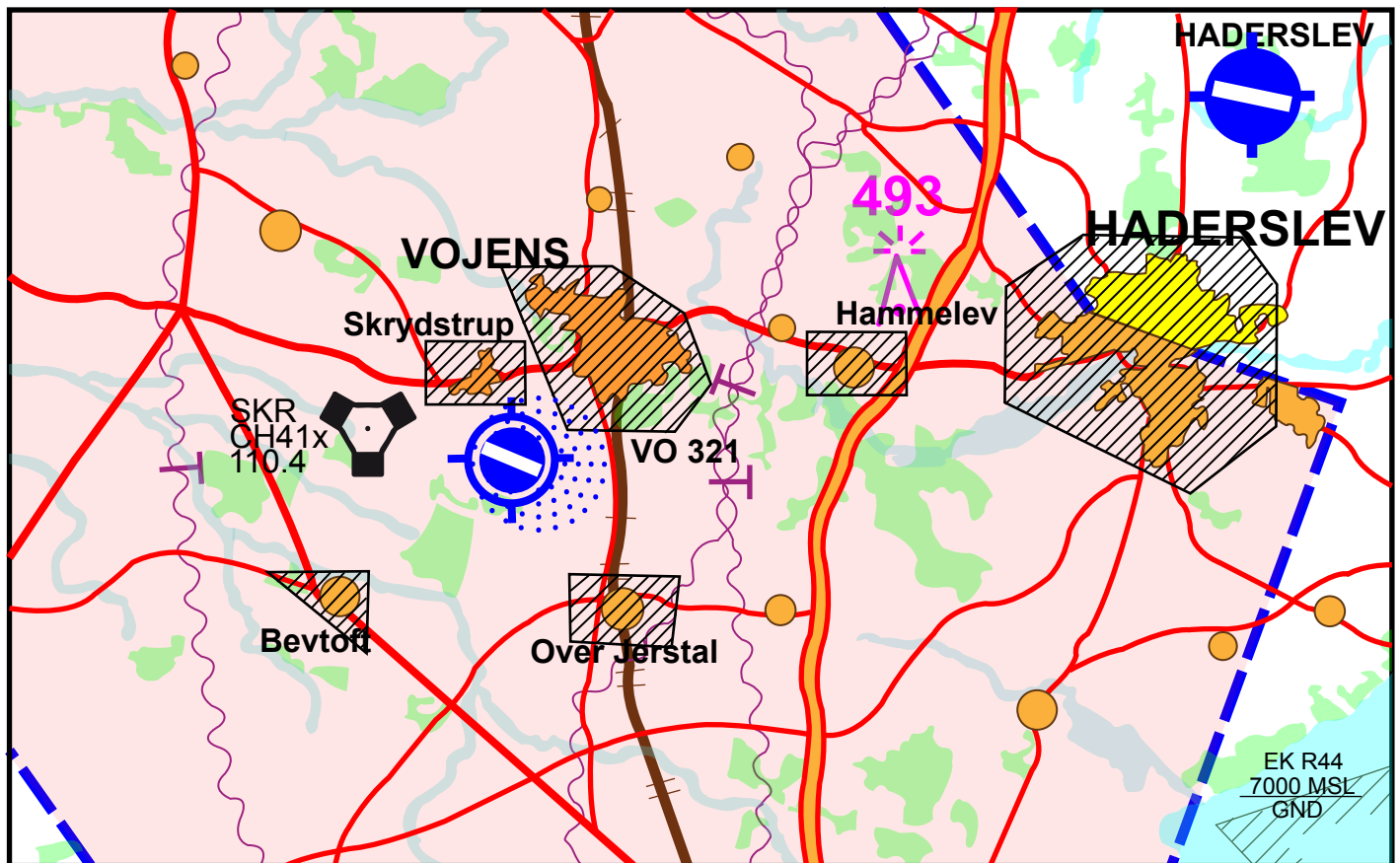
18. ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
APP	KARUP APPROACH	120.425 292.75 362.30+	H24	FL 250/50 NM + As required
TWR	KARUP TOWER	119.575 121.50++ 241.650 257.80 243.00++	H24 H24 H24 H24 H24	FL 040/25 NM FL 250/50 NM FL 040/25 NM
ATIS	KARUP AIRPORT INFORMATION	120.575	H24	DOC: FL 200/60 NM Language: EN
ARR	KARUP ARRIVAL	121.5++ 241.75+ 344.0+ 243.0++	MON-THU 0630-1430 0630-1230	+ As required + As required ++ Emergency
RESERVED		122.1 360.65 385.40	On request	FL 040/25 NM FL 040/25 NM

19. RADIO NAVIGATION AND LANDING AIDS

Type of aid Cat of ILS/MLS (Variation)	ID	Frequency Mhz	Hours of opera- tion	Site of transmitting antenna coordinates	Remarks
1	2	3	4	5	7
TACAN 0° (2008)	KAR	CH 37x	H 24	561748.03N 0090030.95E	Coverage FL500/200NM
TAR/SSR		Wave length 10cm	H 24	561729.46N 0090626.22E	Max. range 60 NM, 40.000FT
L	KA	369 Khz	H 24	561754.42N 0091413.05E	Coverage 20 NM.
LLZ 27L CAT II	KR	108.15		561749.60N 0090416.19E	
ILS GP 27L		334.55		561746.82N 0090715.16E	Angle 2.75° , RDH 36 FT Frq. paired with LLZ 27L dist. ref. to DME posn.
DME 27L	KR	CH 18Y	H 24	561746.98N 0090715.12E	
L	KP	351 Khz	H 24	561747.51N 0085806.53E	Coverage 20 NM.
LLZ 09R CAT I	KAP	108.30		561750.95N 0090745.29E	
DME 09R	KAP	CH 20x	H 24	561745.22E 0090452.04E	
ILS GP 09R		334.10		561744.99N 0090452.08E	Angle 2.75° , RDH 38 FT

Noise Abatement Chart



The hatched areas on the map shall be avoided during departure and arrival.

If transitioning CTR/TMA overflying the hatched areas must not take place below 3.000 ft msl.

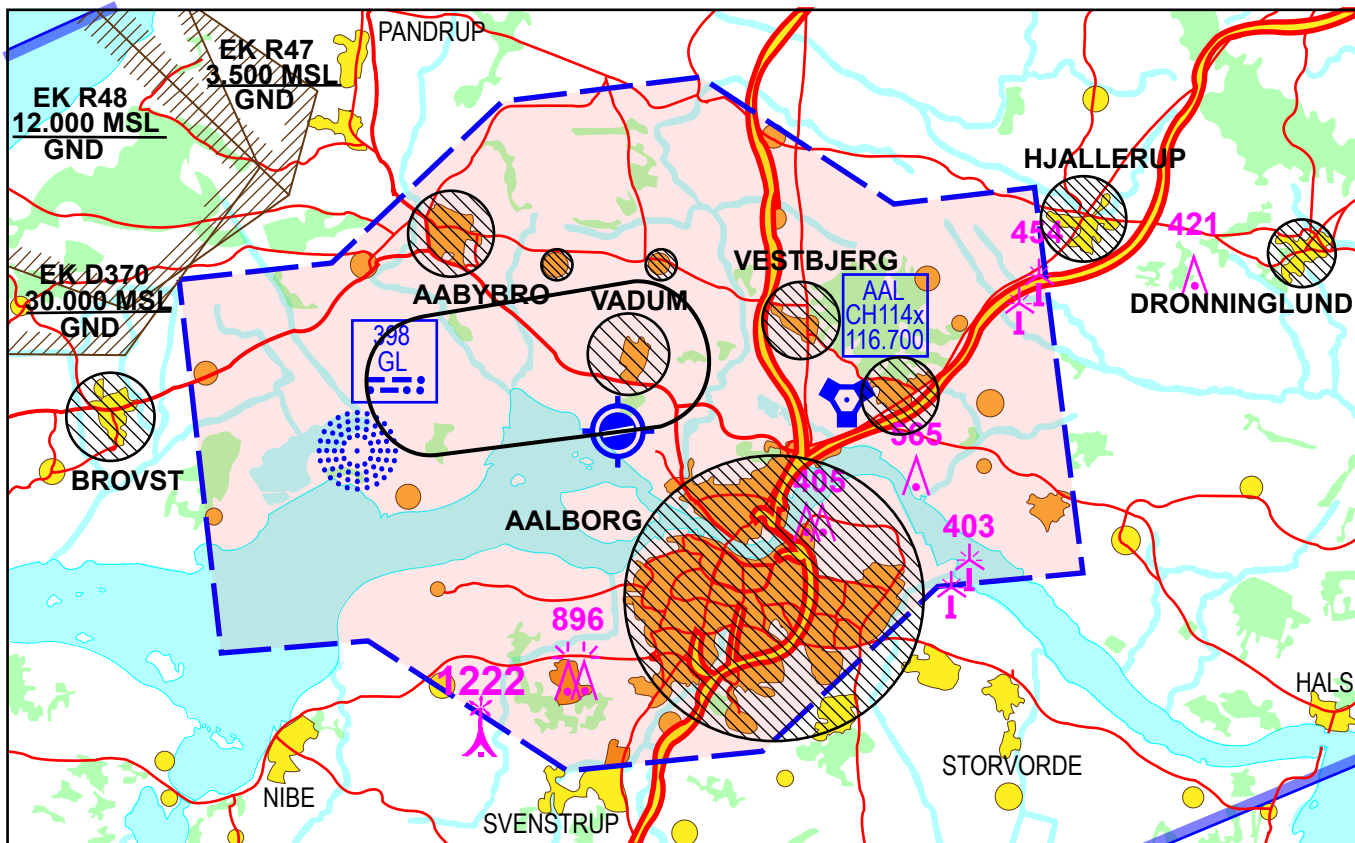
Noise Abatement Chart



The hatched areas on the map shall be avoided during departure and arrival.

If transitioning CTR/TMA overflying the hatched areas must not take place below 3.000 ft msl.

VFR pattern for 4 engine jet aircraft RWY 08L

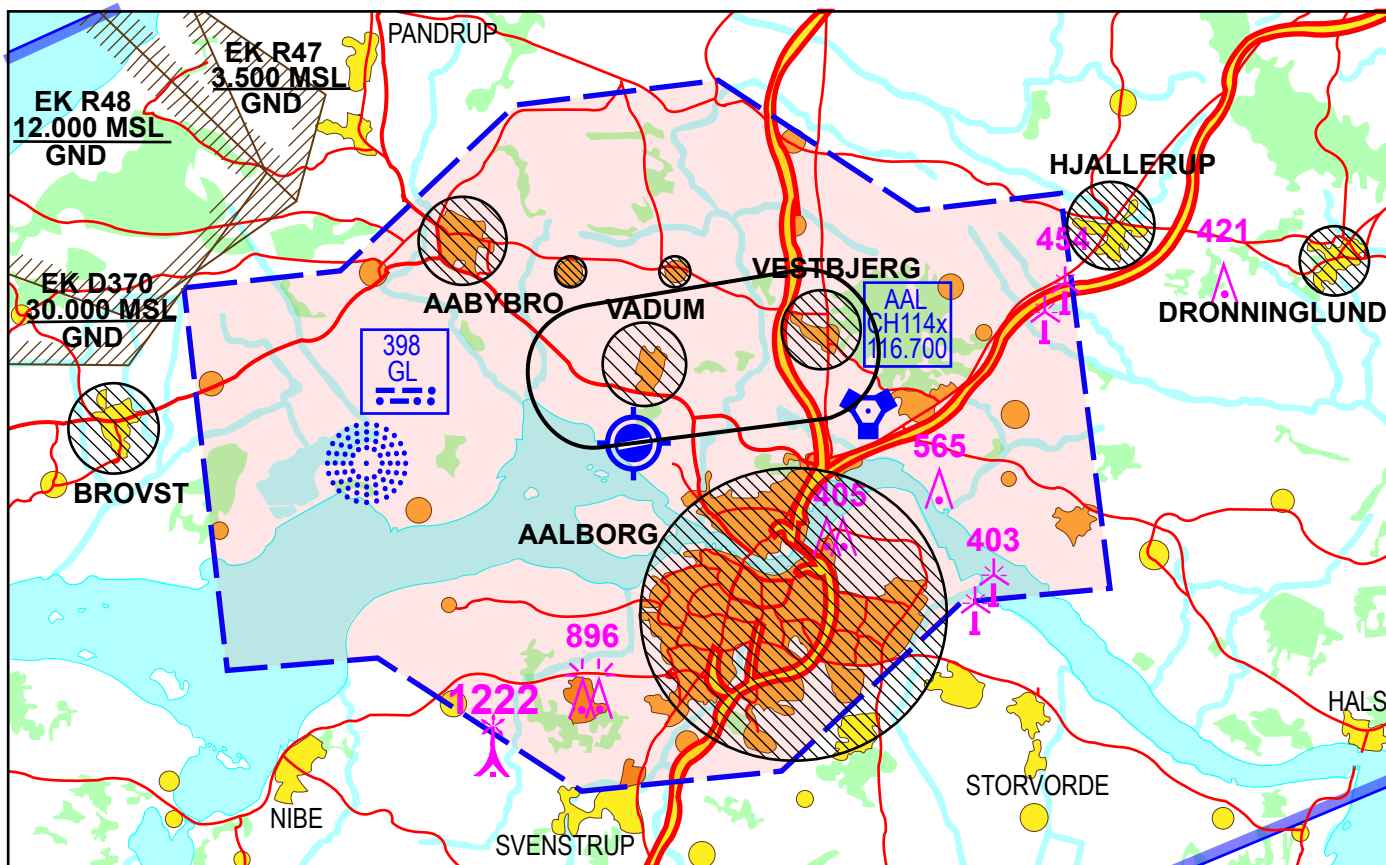


A special VFR pattern, with additional noise abatement areas, has been established for 4 engine jet aircraft.

The hatched areas on the map shall be avoided during departure and arrival.

Downwind altitude 2500 FT. Start descent when turning base.

VFR pattern for 4 engine jet aircraft RWY 26R



A special VFR pattern, with additional noise abatement areas, has been established for 4 engine jet aircraft.

The hatched areas on the map shall be avoided during departure and arrival.

Downwind altitude 2500 FT. Start descent when turning base.