

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				
<u>L39 (CDR)</u> △ LINVI (FIR BDRY) 570000N 0071388E △ GOLUM (FIR BDRY) 552700N 00517E	215.8	114.0	FL 660	FL 245			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		↓	For continuation, see AIP UK ATS provided by Copenhagen ACC between VALBO and AVRAL 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						↑	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 levels		REMARKS	
				Odd	Even		
L621 (RNP5) △ KULUD (FIR BDRY) 561538N 0121959E △ ROKAM 561901N 0121100E △ MADAG 562250N 0120049E △ NORTI 563128N 0113732E △ LAPMA 563733.44N 0112051.15E △ AALBORG VOR/DME (AAL) 570613.39N 0095944.08E △ LAGUM 572720N 0091606E △ AMSEV (FIR BDRY) 574031N 0084808E	304.3	6.0	FL 660 FL 195 FL 195 3500 FT MSL	C E		For continuation, see AIP Sweden Sweden FRA Entry/Exit ATS provided by Sweden ACC FL95 – FL245 between KULUD And MADAG. For continuation, see AIP Norway	
	AAL 121	15.5	FL 660 FL 195 FL 195 3500 FT MSL	C E			
		11.1					
		53.0					
		31.8	FL 660 FL 245	C			
	122.3	312.1					
	AAL 311	20.0			↑		
	131.1						

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>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	↑	
		23.2	FL 195 3500 FT MSL	E		
△ TUDLO 551633N 0103852E		38.2				
△ ROBUS 550634N 0114311E		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	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
			FL 195			
		24.5	FL 660	E		
		18.3	FL 195 3500 FT MSL			
	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	C	↓	Extremity of L997 ATS provided by Sweden ACC FL 95 – FL 660 between NOVPO and VEDAR. Sweden FRA Entry For continuation. see AIP Sweden
			FL 95			
	13.0	FL 95 3500 FT MSL	E			
<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	C	↓	For continuation. see AIP Germany
	117.8					
	286.2 CDA 284	23.7	FL 195	E		
	105.6		3500 FT MSL			
	308.2 ODN 126	46.3				
	127.4					
324.5 ODN 323	38.4			↑	Extremity of M602	
144.3						
<u>M604 (RNP5)</u> △ INBOB (FIR BDRY) 553625N 0050000E △ BUSOM 555631N 0052341E △ DANKO (FIR BDRY) 570000N 0064152E	033.4	24.2	FL 660	C	↓	For continuation, see AIP UK ATS provided by Copenhagen ACC between LARGA and INBOB
			FL 195		↓	
	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						38.3
	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						11.4
		20.2					
	CDA 265 ALS 084						21.2
		30.0					
	850						
M725 (CDR) (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 CDR1: CDA – AAL H24 ALTN: CDA-DCT-ODN-DCT- AAL For continuation, see AIP Norway	
	117.8						85.5
	324.1	64.7	FL 660 FL 195 FL 195 3500 FT MSL	C E			
	142.8 333.3						20.1
	152.6 324.3	31.7					
	AAL 323						
	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					
		202.6	8.0				
		203.2	56.8			↑	Sweden FRA Entry/Exit For continuation, see AIP Sweden
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

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				Odd	Even		
N607 (CDR) (RNP 5) △ 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
N850 (CDR) (RNP 5) △ MISBI (FIR BDRY) 555355N 0124021E △ GOLMI 554638N 0123059E △ MAXEL 544323,31N 01157,93E △ MARIP 544323N 0112515E △ BAGOS (FIR BDRY) 543422N 0111612E	216.0	9.0	FL 660 FL 95	C	↓		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.
	211.1	40.1					CDR3: MISBI - MARIP below FL 195
	209.9	33.6	FL 660 FL 195 FL 195 3500 FT MSL	C E			ALTN: MISMA - Z32 - KELOM - T51 - KOPEX - DCT MARIP
		10.4					For continuation, see AIP Germany
N851 (CDR) (RNP 5) △ MAKEL (FIR BDRY) 542658N 0114801E △ GESKA 543703N 0115557E △ KUBIS 551323N 0122854E △ LEBDA (FIR BDRY) 552225N 0123743E	024.5	11.1	FL 660 FL 245	C		↓	For continuation, see AIP Germany CDR3: GESKA - LEBDA below FL125 ALTN: GESKA - P605 - ALM
	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 RNAV OPS only. Sweden FRA Entry
	029.1	10.4	FL 660 3500 FT MSL	C			For continuation, see AIP Sweden

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N866 (RNP 5)							
△ 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			
△ AALBORG VOR/DME (AAL) 570613.39N 0095944.08E	049.7						Between AAL - INVOL cruising Level ODD only above FL 285
	238.5	43.5					
△ KEMEG 564315N 0085221E	AAL 238 RAM 057	27.0					ATS provided by Copenhagen ACC between UPGAS and TIPAN
△ 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					
△ AMRAM 555637N 0063803E		54.6					
△ GOLUM 552700N 0051700E	056.5				↑		
	218.3	15.7				↓	
△ UPGAS (FIR BDRY) 551441N 0050000E							For continuation, see AIP UK
N872 (CDR) (RNP 5)							
△ KOPIM (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					
△ NAROL 560021N 0121330E	SVD 230 ALS 047	37.0					ATS provided by Sweden ACC above FL 95 between KOPIM and LASGI and above FL 195 between KOPIM and NAROL
△ DOBEL 553621.88N 0112323.75E		63.6	FL 660 FL 195	C		↓	
△ ALSIE VOR (ALS) 545419.49N 0095936.16E	229.6	6.4	FL 195 3500 FT MSL	E			CDR3: KOPIM – DOBEL below FL 195 ALTN: MISMA – Z32 - ALS
△ DEMIR (FIR BDRY) 545011N 0095110E	ALS 229						For continuation, see AIP Germany

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				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	021.6	14.5	FL 660 FL 195	C E	↓	For continuation, see AIP Germany 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					
<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	279.7	25.5	FL 660 FL 195	C		↓	Extremity of P60 CDR1: NISEM – AMRAM H24 ALTN: ODN – L975 – VES - L983 – AMRAM
		112.4					
	303.8	47.9					
		17.4					
	122.4				↑		

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				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					↑
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				
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				↑	

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<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	C		↓	
	AAL 134		FL 195				
		63.7	FL 195	E			
	301.3	53.5	3500 FT		↑	↓	
120.1	MSL						
<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	C		↓	
			FL 195	E			
	158.4	337.4	FL 195				
			3500 FT				
		16.3	FL 660	C	↑		
		FL 195					
	75.0						
	156.5						
<u>P999 (RNP 5)</u> △ AMRAK (FIR BDRY) 544928N 0094502E △ ALSIE VOR (ALS) 545419.49N 0095936.16E							For continuation, see AIP Germany Extremity of P999
	059.8	9.7	FL 245	C	↓		
	ALS 240		FL 195	E			
240.0		3500 FT			↑		
		MSL					

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>Q280 (RNP 5)</u> △ 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
	329.6					
<u>T51 (RNP 5)</u> △ 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
<u>T53 (RNP5)</u> △ 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 <i>ALS 044</i>	31.7	FL 660 FL 195 FL 195 3500 FT MSL	C E	↓	Extremity of T53
	073.3					
	<i>KOR 253</i>	17.0				
	6.8		FL 660 3500 FT MSL	C		
<u>T54 (RNP 5)</u> △ AALBORG VOR/DME (AAL) 570613.39N 0095944.08E △ TESPI 555354N 0103152E △ ROSBI 555058N 0105555E COPENHAGEN AREA 554704N 0112211E △ TRANO VOR/DME (TNO) 554626.74N 0112621.08E	166.0 <i>AAL 165</i>	74.6	FL 660 FL 195 FL 195 3500 FT MSL	C E	↓	Extremity of T54
	102.1					
	<i>TNO 283</i>	15.3				
	2.4		FL 660 3500 FT MSL	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 levels		REMARKS	
				Odd	Even		
<u>T55 (CDR) (RNP 5)</u> △ 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					
		2.4	FL 660 3500 FT MSL	C			

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						Extremity of T56
	068.3	12.7	FL 660 FL 195 FL 195 3500 FT MSL	C E	↓	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						Extremity of T57
	033.7	23.7	FL 660 FL 195 FL 195 3500 FT MSL	C E	↓	Extremity of T57
	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
T58 (RNP 5) △ 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				
T59 (RNP 5) △ 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
			FL 195	E			
			FL 195				
			3500 FT				
			MSL				
	308.2	15.4	FL 660	C			RNAV only
			3500 FT				
			MSL				
	041.3	7.5	FL 660	C			Extremity of T59
			3500 FT				
			MSL				
	<i>KOR 221</i>						
T138 (CDR) (RNP 5) △ AALBORG VOR/DME (AAL) 57061339N 009594408E △ TINAC (FIR BDRY) 561503N 0050000E	255.0	173.1	FL 660	C		↓	Extremity of T138
			FL 245				
	071.0					↑	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
							Extremity of T138
T148 (RNP 5) △ 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 E	↓	
	034.0 CDA 212	4.0	3500 FT MSL			
						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 E	↓	
	034.0 CDA 212	4.0	3500 FT MSL			
						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		3500 FT 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		5000 FT 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 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: RAM – N866 – EVAKI - P619 - MITSU Extremity of T505
	FL 195	E					
	288.3	13.2	3500 FT MSL				
	278.9 <i>RAM 097</i>	93.9			↓		
	096.6						
	290.6 <i>RAM 290</i>	93.9	FL 660	C	↑		
	108.4		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					E
<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					E
<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 0105555E △ COPENHAGEN AREA 554704N 0112211E △ TRANO VOR/DEM (TNO) 554626.74N 0112621.08E	173.9	63.8	FL 660	C		↓	For continuation, see AIP Norway	
			FL 195					
	166.0	74.6	FL 195	E				CDR1: BINRO - AAL ALTN: SKI - P602 - LAVKO - M725 - AAL
	AAL 165		3500 FT					
	102.1	13.9	MSL					
	TNO 283	15.3						
	2.4	FL 660	C				Extremity of T551	
			3500 FT					
			MSL					

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	177.1	26.0	FL 660 FL 195 FL 195 3500 FT MSL	C E	↑ ↓	For continuation, see AIP Norway RNAV OPS only
	357.2					Extremity of T600
<u>T660 (RNP 5)</u> △ BAMPI 555034.46N 0081610.64E △ NARBA 555112N 0080650E △ NAVIK 555147N 0075811E △ NUGLO 555231N 0074652E △ AMRAM 555637N 0063803E	276.9	5.3	FL 660 FL 195	C	↓	Extremity of T660
		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	239.9	3.3	FL 245 FL 95 FL 95	C E	↓	For continuation, see AIP Sweden ATS FL95 – FL245 delegated to Sweden between MOLUD and TOBMI. for details see AIP Sweden
	229.9	5.3	3500 FT MSL			
	ODN 048	39.3	FL 245 FL 95	C E	↓	CDR1: ROKAM - ODN all levels ALTN: ROKAM direct TNO direct ALS or for traffic via KELOM – T51: ROKAM direct TNO direct KOPEX
	048.8	23.1	3500 FT MSL			
	209.4					
	ODN 208 ALS 028	46.4				
	028.8				↑	

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 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					
	057.6	11.8					ATS provided by Sweden ACC between AMTOT and EVBAS 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 level		REMARKS
					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							Sweden FRA Exit For continuation, see AIP Sweden ATS provided by Sweden ACC between KULUD and ADVOP For continuation, see AIP Germany
	220.8	11.1	FL 660 FL 195	C		↓	
	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							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
	021.8	149.1	FL 660 FL 245	C	↓		
Z705 (CDR) (RNP 5) △ KOPIN (FIR BDRY) 571524N 0075910E △ AMADA (FIR BDRY) 550000N 0062100E							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
	202.7	146.0	FL 660 FL 245	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	
Z706 (RNP 5) △ KOKOR (FIR BDRY) 542741N 0114124E △ GESKA 543703N 0115557E △ NOVPO 560624N 0121428E	042.0	12.6	FL 660 FL 245	C	↓	For continuation, see AIP Germany Extremity of Z706
	006.6	90.1				
Z708 (CDR) (RNP 5) △ KUGAL (FIR BDRY) 550000N 0073714E △ VESTA VOR/DME (VES) 553611.33N 0081759.86E	032.4	43.0	FL 660 FL 245	C	↓	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
Z709 (CDR) (RNP 5) △ VESTA VOR/DME (VES) 553611.33N 0081759.86E △ LANUL (FIR BDRY) 550000N 0074150E	209.9	41.6	FL 660 FL 245	C	↓	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
	353.1					↑	For continuation, see AIP Germany
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	C	↓		
	017.8	14.2	FL 195 3500 FT MSL	E			Sweden FRA Entry For continuation, see AIP Sweden

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