

Route designator Name of significant points Coordinates	True Track	Geodesic DIST NM	Upper limits Lower limits	Direction of cruising levels Odd Even		Remarks	Controlling Unit
1	2	3	4	5		6	7
UM44							
△ KOGIM N 54 19 01 E 013 32 38							
	351.6 171.6	11.5	FL 660 FL 245	↑	↓		Bremen ACC Karlsruhe UAC
△ ARGAD N 54 30 22 E 013 29 46							
	351.2 171.1	25.0	FL 660 FL 245	↑	↓	CDR1 FL 245 – FL 280 H24 See ENR 5.1 MVPA North-East - reroutings due to military activities on this segment only after publication of NOTAM.	Bremen ACC Karlsruhe UAC
△ SALLO (FIR BDRY) N 54 55 00 E 013 23 10							
UM149							
△ AMASI N 50 14 25 E 007 36 22							
	103.0	47.4	FL 660 FL 245	↓			Karlsruhe UAC
△ BOMBI N 50 03 24 E 008 48 01							
	115.7	32.0	FL 660 FL 245	↓			Karlsruhe UAC
△ DETEV N 49 49 25 E 009 32 31							
UM150							
△ PITES (FIR BDRY) N 49 43 43 E 006 31 10							
	117.8	78.8	FL 660 FL 245	↓		CDR1 FL 245 – FL 350 Mon 2300 (2200) – Tue 0600 (0500) Tue 2300 (2200) – Wed 0600 (0500) Wed 2300 (2200) – Thu 0600 (0500) Thu 2300 (2200) – Fri 0600 (0500) Fri 1700 (1600) – Mon 0700 (0600) CDR1 FL 350 – FL 660 Mon 1430 (1330) – Tue 0930 (0830) Tue 1430 (1330) – Wed 0930 (0830) Wed 1430 (1330) – Thu 0930 (0830) Thu 1430 (1330) – Fri 0930 (0830) Fri 1430 (1330) – Mon 0930 (0830) legal holidays CDR2 FL 245 – FL 660 other times ALTN route: via SPI - UL607	Karlsruhe UAC
△ GEBDA N 49 06 09 E 008 17 15							
	119.2	13.4	FL 660 FL 245	↓		CDR1 FL 245 – FL 350 Mon 2300 (2200) – Tue 0600 (0500) Tue 2300 (2200) – Wed 0600 (0500) Wed 2300 (2200) – Thu 0600 (0500) Thu 2300 (2200) – Fri 0600 (0500) Fri 1700 (1600) – Mon 0700 (0600) CDR1 FL 350 – FL 660 Mon 1430 (1330) – Tue 0930 (0830) Tue 1430 (1330) – Wed 0930 (0830) Wed 1430 (1330) – Thu 0930 (0830) Thu 1430 (1330) – Fri 0930 (0830) Fri 1430 (1330) – Mon 0930 (0830) legal holidays CDR2 FL 245 – FL 660 other times ALTN route: via SPI - UL607	Karlsruhe UAC
△ KARLSRUHE DVOR/DME (KRH) N 48 59 35 E 008 35 03							
	129.8 310.3	10.0	FL 660 FL 245	↓	↑		Karlsruhe UAC

Route designator Name of significant points Coordinates	True Track	Geodesic DIST NM	Upper limits Lower limits	Direction of cruising levels Odd Even		Remarks	Controlling Unit
1	2	3	4	5		6	7
△ LAMGO N 48 53 09 E 008 46 45							
	144.0	46.6	FL 660 FL 245	↓			Karlsruhe UAC
△ UTABA N 48 15 18 E 009 27 42							

UM164							
△ LUPEN N 48 26 06 E 007 44 01							
	098.2 279.5	70.0	FL 660 FL 245	↓	↑		Karlsruhe UAC
△ UTABA N 48 15 18 E 009 27 42							
	280.8	8.7	FL 660 FL 245		↑	CDR1 FL 245 – FL 660 Mon 2230 (2130) – Tue 0700 (0600) Tue 2230 (2130) – Wed 0700 (0600) Wed 2230 (2130) – Thu 0700 (0600) Thu 2230 (2130) – Fri 0700 (0600) Fri 1600 (1500) – Mon 0700 (0600) legal holidays CDR2 FL 245 – FL 660 other times	Karlsruhe UAC München ACC
△ PELOG N 48 13 41 E 009 40 30							

UM170							
△ PODAT (FIR BDRY) N 50 41 45 E 006 08 11							
	067.4 248.2	4.2	FL 660 FL 245	↓	↑		Maastricht UAC
△ KENUM N 50 43 21 E 006 14 22							
	067.4 248.2	18.7	FL 660 FL 245	↓	↑		Maastricht UAC
△ NÖRVENICH VORTAC (NOR) N 50 50 26 E 006 41 39							
	031.8 212.2	34.5	FL 660 FL 245 (FL270)	↓	↑		Maastricht UAC
△ BARMEN DVORTAC (BAM) N 51 19 40 E 007 10 37							
	033.7 214.0	7.0	FL 660 FL 245 (FL270)	↓	↑		Maastricht UAC
△ ABAMI N 51 25 30 E 007 16 50							
	033.7 214.0	20.6	FL 660 FL 245	↓	↑		Maastricht UAC
△ DOMEQ N 51 42 34 E 007 35 14							
	041.1 221.6	39.3	FL 660 FL 245	↓	↑		Maastricht UAC
△ OSNABRÜCK DVOR (OSN) N 52 12 00 E 008 17 08							
	028.0 209.1	39.0	FL 660 FL 245	↓	↑	CDR1 FL 290 – FL 660 Mon 2300 (2200) – Tue 0700 (0600) Tue 2300 (2200) – Wed 0700 (0600) Wed 2300 (2200) – Thu 0700 (0600) Thu 2300 (2200) – Fri 0700 (0600) Fri 1100 (1000) – Mon 0700 (0600) legal holidays CDR2 FL 290 – FL 660 other times	Maastricht UAC

Route designator Name of significant points Coordinates	True Track	Geodesic DIST NM	Upper limits Lower limits	Direction of cruising levels Odd Even		Remarks	Controlling Unit
1	2	3	4	5		6	7
△ BASUM N 52 46 19 E 008 47 19							
	028.0 209.1	49.6	FL 660 FL 245	↓	↑	CDR1 FL 290 – FL 660 Mon 2300 (2200) – Tue 0700 (0600) Tue 2300 (2200) – Wed 0700 (0600) Wed 2300 (2200) – Thu 0700 (0600) Thu 2300 (2200) – Fri 0700 (0600) Fri 1100 (1000) – Mon 0700 (0600) legal holidays CDR2 FL 290 – FL 660 other times	Maastricht UAC
△ STADE N 53 29 43 E 009 26 49							
	026.8 206.7	10.6	FL 660 FL 245	↓	↑	CDR1 FL 290 – FL 660 Mon 2300 (2200) – Tue 0700 (0600) Tue 2300 (2200) – Wed 0700 (0600) Wed 2300 (2200) – Thu 0700 (0600) Thu 2300 (2200) – Fri 0700 (0600) Fri 1100 (1000) – Mon 0700 (0600) legal holidays CDR2 FL 290 – FL 660 other times	Maastricht UAC
△ ELBE VOR/DME (LBV) N 53 39 09 E 009 34 46							
	084.7 265.2	22.4	FL 660 FL 245	↓	↑		Maastricht UAC
△ HAMBURG DVORTAC (HAM) N 53 41 08 E 010 12 18							
UM602							
△ SONAL (FIR BDRY) N 54 52 44 E 012 46 49							
	132.7 313.2	7.3	FL 660 FL 245	↓	↑		Karlsruhe UAC
△ BANKU N 54 47 45 E 012 56 07							
	132.7 313.2	17.4	FL 660 FL 245	↓	↑	CDR1 FL 245 – FL 280 H24 See ENR 5.1 MVPA North-East - reroutings due to military activities on this segment only after publication of NOTAM.	Bremen ACC Karlsruhe UAC
△ NONSA N 54 35 55 E 013 18 01							
	153.2 333.3	18.7	FL 660 FL 245	↓	↑	CDR1 FL 245 – FL 280 H24 See ENR 5.1 MVPA North-East - reroutings due to military activities on this segment only after publication of NOTAM.	Bremen ACC Karlsruhe UAC
△ KOGIM N 54 19 01 E 013 32 38							
	153.3 333.5	14.6	FL 660 FL 245	↓	↑	CDR1 FL 245 – FL 280 H24 See ENR 5.1 MVPA North-East - reroutings due to military activities on this segment only after publication of NOTAM.	Bremen ACC Karlsruhe UAC
△ PENET N 54 06 01 E 013 43 44							
	136.3 316.8	12.2	FL 660 FL 245	↓	↑	CDR1 FL 245 – FL 280 H24 See ENR 5.1 MVPA North-East - reroutings due to military activities on this segment only after publication of NOTAM.	Bremen ACC Karlsruhe UAC
△ USEDÜ N 53 57 11 E 013 58 00							
	136.3 316.8	16.0	FL 660 FL 245	↓	↑		Bremen ACC Karlsruhe UAC

Route designator Name of significant points Coordinates	True Track	Geodesic DIST NM	Upper limits Lower limits	Direction of cruising levels Odd Even	Remarks	Controlling Unit
1	2	3	4	5	6	7
△ BINKA (FIR BDRY) N 53 45 34 E 014 16 32						

UM615						
△ KENUM N 50 43 21 E 006 14 22						
	193.7	5.6	FL 660 FL 245		↓	Maastricht UAC
△ FIR BDRY N 50 38 00 E 006 12 00						

UM725						
△ SONAL (FIR BDRY) N 54 52 44 E 012 46 49						
	132.7 313.2	7.3	FL 660 FL 245	↓	↑	Bremen ACC Karlsruhe UAC
△ BANKU N 54 47 45 E 012 56 07						
	132.7 313.2	17.4	FL 660 FL 245	↓	↑	CDR1 FL 245 – FL 280 H24 See ENR 5.1 MVPA North-East - reroutings due to military activities on this segment only after publication of NOTAM. Bremen ACC Karlsruhe UAC
△ NONSA N 54 35 55 E 013 18 01						
	153.2 333.3	19.0	FL 660 FL 245	↓	↑	CDR1 FL 245 – FL 280 H24 See ENR 5.1 MVPA North-East - reroutings due to military activities on this segment only after publication of NOTAM. Bremen ACC Karlsruhe UAC
△ KOGIM N 54 19 01 E 013 32 38						
	171.3 351.3	7.5	FL 660 FL 245	↓	↑	CDR1 FL 245 – FL 280 H24 See ENR 5.1 MVPA North-East - reroutings due to military activities on this segment only after publication of NOTAM. Bremen ACC Karlsruhe UAC
△ LABES N 54 11 35 E 013 34 35						
	171.3 351.4	16.4	FL 660 FL 245	↓	↑	CDR1 FL 245 – FL 280 H24 See ENR 5.1 MVPA North-East - reroutings due to military activities on this segment only after publication of NOTAM. Bremen ACC Karlsruhe UAC
△ MASOR N 53 55 27 E 013 38 45						
	168.0 348.0	9.9	FL 660 FL 245	↓	↑	CDR1 FL 245 – FL 660 H24 See ENR 5.1 MVPA North-East To avoid Military Exercise Areas expect TEMPO vectoring by ATC. Route extension: MAX 6 NM Bremen ACC Karlsruhe UAC
△ UDAXI N 53 45 45 E 013 42 15						
	168.0 348.0	4.7	FL 660 FL 245	↓	↑	CDR1 FL 245 – FL 660 H24 See ENR 5.1 MVPA North-East To avoid Military Exercise Areas expect TEMPO vectoring by ATC. Route extension: MAX 6 NM Bremen ACC Karlsruhe UAC
△ RODEP N 53 41 10 E 013 43 53						
	168.0 348.1	31.2	FL 660 FL 245	↓	↑	Bremen ACC Karlsruhe UAC
△ RAKIT N 53 10 43 E 013 54 40						
	173.4 353.4	16.0	FL 660 FL 245	↓	↑	Bremen ACC Karlsruhe UAC

Route designator Name of significant points Coordinates	True Track	Geodesic DIST NM	Upper limits Lower limits	Direction of cruising levels Odd Even		Remarks	Controlling Unit
1	2	3	4	5		6	7
△ RENKI N 52 54 53 E 013 57 42							
	172.6 352.7	18.9	FL 660 FL 245	↓	↑		Bremen ACC Karlsruhe UAC
△ GERGA N 52 36 09 E 014 01 41							
	172.6 352.9	12.3	FL 660 FL 245	↓	↑		Bremen ACC Karlsruhe UAC
△ TUVAK N 52 23 59 E 014 04 15							
	172.6 352.9	5.0	FL 660 FL 245	↓	↑		Bremen ACC Karlsruhe UAC
△ GORIG N 52 19 00 E 014 05 17							
	172.6 352.9	4.3	FL 660 FL 245	↓	↑		Bremen ACC Karlsruhe UAC
△ BESKO N 52 14 44 E 014 06 11							
	172.6 352.9	21.0	FL 660 FL 245	↓	↑		Bremen ACC Karlsruhe UAC
△ LUROS N 51 53 55 E 014 10 28							
	172.6 352.9	5.7	FL 660 FL 245	↓	↑		Bremen ACC Karlsruhe UAC
△ EBASA N 51 48 16 E 014 11 37							
	172.6 352.9	17.6	FL 660 FL 245	↓	↑		Bremen ACC Karlsruhe UAC
△ KOBUS N 51 30 48 E 014 15 09							
	172.6 352.9	23.8	FL 660 FL 245	↓	↑		Karlsruhe UAC München ACC
△ BUSIR N 51 07 15 E 014 19 51							
	172.6 352.9	11.7	FL 660 FL 245	↓	↑		Karlsruhe UAC München ACC
△ HERMSDORF DVOR/DME (HDO) N 50 55 41 E 014 22 08							

UM726	Beyond NORIN see AIPs Austria or Italy.						
△ NORIN N 47 23 12 E 011 24 08							
	359.6	14.1	FL 660 FL 245		↓		Karlsruhe UAC München ACC
△ KOGOL N 47 37 20 E 011 23 59							
	354.8	14.1	FL 660 FL 245		↓		Karlsruhe UAC München ACC
△ KONIN N 47 51 21 E 011 22 05							
	354.7	24.6	FL 660 FL 245		↓	CDR1 FL 280 – FL 320 FL 360 – FL 470 H24 ALTN route: by ATC	Karlsruhe UAC München ACC
△ MAISACH DVOR/DME (MAH) N 48 15 48 E 011 18 43							
	354.0	23.0	FL 660 FL 245		↓	CDR1 FL 280 – FL 320 FL 360 – FL 470 H24 ALTN route: by ATC	Karlsruhe UAC München ACC
△ BESNI N 48 38 37 E 011 15 06							
	354.0	12.1	FL 660 FL 245		↓	CDR1 FL 280 – FL 320 FL 360 – FL 470 H24 ALTN route: by ATC	Karlsruhe UAC München ACC
△ ERNAS N 48 50 41 E 011 13 10							
	000.2	22.2	FL 660 FL 245		↓	CDR1 FL 280 – FL 320 FL 360 – FL 470 H24 ALTN route: by ATC	Karlsruhe UAC München ACC

Route designator Name of significant points Coordinates	True Track	Geodesic DIST NM	Upper limits Lower limits	Direction of cruising levels Odd Even		Remarks	Controlling Unit
1	2	3	4	5		6	7
△ UPALA N 49 12 52 E 011 13 17							
	000.2	20.2	FL 660 FL 245		↓	CDR1 FL 360 – FL 470 H24 ALTN route: by ATC	Karlsruhe UAC München ACC
△ KEMES N 49 33 00 E 011 13 27							
	000.2	13.1	FL 660 FL 245		↓	CDR1 FL 360 – FL 470 H24 ALTN route: by ATC	Karlsruhe UAC München ACC
△ ANELA N 49 46 08 E 011 13 29							
	000.2	18.4	FL 660 FL 245		↓		Karlsruhe UAC München ACC
△ LONLI N 50 04 29 E 011 13 35							
	000.2	17.2	FL 660 FL 245		↓		Karlsruhe UAC München ACC
△ LASGA N 50 21 38 E 011 13 41							
	354.5	18.6	FL 660 FL 245		↓		Karlsruhe UAC München ACC
△ NARUS N 50 40 06 E 011 10 54							
	354.5	27.8	FL 660 FL 245		↓		Karlsruhe UAC München ACC
△ LASTO N 51 07 44 E 011 06 38							
	011.0	10.1	FL 660 FL 245		↓		Karlsruhe UAC München ACC
△ MITRU N 51 17 38 E 011 09 43							
	011.0	19.9	FL 660 FL 245		↓		Karlsruhe UAC München ACC
△ KENIG N 51 37 10 E 011 15 52							
	006.8	26.5	FL 660 FL 245		↓		Bremen ACC Karlsruhe UAC
△ EMBOX N 52 03 27 E 011 20 59							
	006.8	19.4	FL 660 FL 245		↓		Bremen ACC Karlsruhe UAC
△ LEGDA N 52 22 40 E 011 24 47							
	006.8	16.1	FL 660 FL 245		↓		Bremen ACC Karlsruhe UAC
△ GARGU N 52 38 40 E 011 28 00							
	007.0	17.5	FL 660 FL 245		↓		Bremen ACC Karlsruhe UAC
△ ERNUD N 52 56 02 E 011 31 32							
	007.0	6.1	FL 660 FL 245		↓		Bremen ACC Karlsruhe UAC
△ BRÜNKENDORF DVOR/DME (BKD) N 53 02 04 E 011 32 46							
	007.1 187.1	6.9	FL 660 FL 245	↑	↓		Bremen ACC Karlsruhe UAC
△ LASLU N 53 08 55 E 011 34 11							
	007.1 187.1	6.2	FL 660 FL 245	↑	↓		Bremen ACC Karlsruhe UAC
△ NOBRI N 53 15 05 E 011 35 28							
	016.5 196.9	9.7	FL 660 FL 245	↑	↓		Bremen ACC Karlsruhe UAC
△ PABMI N 53 24 19 E 011 40 03							
	016.5 196.9	20.7	FL 660 FL 245	↑	↓		Bremen ACC Karlsruhe UAC
△ TAGOB N 53 44 05 E 011 49 59							
	016.5 196.9	29.8	FL 660 FL 245	↑	↓		Bremen ACC Karlsruhe UAC

Route designator Name of significant points Coordinates	True Track	Geodesic DIST NM	Upper limits Lower limits	Direction of cruising levels Odd Even		Remarks	Controlling Unit
1	2	3	4	5		6	7
△ ROSOK N 54 12 36 E 012 04 36							
	036.4 216.8	26.7	FL 660 FL 245	↑	↓		Bremen ACC Karlsruhe UAC
△ SULIV N 54 33 59 E 012 31 48							
	054.4 235.1	36.5	FL 660 FL 245	↑	↓		Bremen ACC Karlsruhe UAC
△ SALLO (FIR BDRY) N 54 55 00 E 013 23 10							

UM736	For continuation see AIP Austria						
△ SALLO (FIR BDRY) N 54 55 00 E 013 23 10							
	197.6 017.4	28.8	FL 660 FL 245	↓	↑	CDR1 FL 245 – FL 280 H24 See ENR 5.1 MVPA North-East - reroutings due to military activities on this segment only after publication of NOTAM.	Bremen ACC Karlsruhe UAC
△ PEROM N 54 27 35 E 013 08 16							
	196.3 016.1	21.1	FL 660 FL 245	↓	↑	CDR1 FL 245 – FL 660 H24 See ENR 5.1 MVPA North-East To avoid Military Exercise Areas expect TEMPO vectoring by ATC. Route extension: MAX 20 NM	Bremen ACC Karlsruhe UAC
△ BAKDO N 54 07 23 E 012 58 13							
	203.4 022.7	76.5	FL 660 FL 245	↓	↑	CDR1 FL 245 – FL 660 H24 See ENR 5.1 MVPA North-East To avoid Military Exercise Areas expect TEMPO vectoring by ATC. Route extension: MAX 20 NM	Bremen ACC Karlsruhe UAC
△ INDOK N 52 57 05 E 012 07 56							
	205.9 025.9	5.3	FL 660 FL 245	↓	↑	CDR1 FL 245 – FL 660 H24 See ENR 5.1 MVPA North-East To avoid Military Exercise Areas expect TEMPO vectoring by ATC. Route extension: MAX 20 NM	Bremen ACC Karlsruhe UAC
△ BIRMO N 52 52 20 E 012 04 07							
	205.8 025.8	6.1	FL 660 FL 245	↓	↑	CDR1 FL 245 – FL 660 H24 See ENR 5.1 MVPA North-East To avoid Military Exercise Areas expect TEMPO vectoring by ATC. Route extension: MAX 20 NM	Bremen ACC Karlsruhe UAC
△ SUVAL N 52 46 54 E 011 59 47							
	200.7 020.7	9.4	FL 660 FL 245	↓	↑		Bremen ACC Karlsruhe UAC
△ SOGMA N 52 38 07 E 011 54 19							
	186.1	11.8	FL 660 FL 245	↓			Bremen ACC Karlsruhe UAC
△ GUGSU N 52 26 24 E 011 52 16							
	186.1	5.8	FL 660 FL 245	↓			Bremen ACC Karlsruhe UAC
△ BUREL N 52 20 40 E 011 51 16							
	186.1 006.0	8.1	FL 660 FL 245	↓	↑		Bremen ACC Karlsruhe UAC München ACC
△ UBIGI N 52 12 39 E 011 49 53							
	186.0 006.0	5.3	FL 660 FL 245	↓	↑		Bremen ACC Karlsruhe UAC München ACC

Route designator Name of significant points Coordinates	True Track	Geodesic DIST NM	Upper limits Lower limits	Direction of cruising levels Odd Even		Remarks	Controlling Unit
1	2	3	4	5		6	7
△ LODRO N 52 07 26 E 011 48 59							
	186.0 006.0	7.8	FL 660 FL 245	↓	↑		Bremen ACC Karlsruhe UAC
△ MAGDEBURG VOR/DME (MAG) N 51 59 42 E 011 47 40							
	199.9 019.8	8.5	FL 660 FL 245	↓	↑		Bremen ACC Karlsruhe UAC
△ BARAP N 51 51 42 E 011 43 01							
	199.7 019.6	23.3	FL 660 FL 245	↓	↑		Karlsruhe UAC München ACC
△ LUKOP N 51 29 46 E 011 30 24							
	199.5 019.5	6.3	FL 660 FL 245	↓	↑		Karlsruhe UAC München ACC
△ GALMA N 51 23 53 E 011 27 04							
	176.5	6.3	FL 660 FL 245	↓			Karlsruhe UAC München ACC
△ SUVUT N 51 17 34 E 011 27 41							
	176.5	14.0	FL 660 FL 245	↓			Karlsruhe UAC München ACC
△ RELKO N 51 03 35 E 011 29 02							
	176.6	30.2	FL 660 FL 245	↓			Karlsruhe UAC München ACC
△ TABAT N 50 33 31 E 011 31 53							
	157.1	39.9	FL 660 FL 245	↓			Karlsruhe UAC München ACC
△ RONIG N 49 56 46 E 011 55 57							
	157.2	6.0	FL 660 FL 245	↓			Karlsruhe UAC München ACC
△ NIKUS N 49 51 13 E 011 59 33							
	157.4	9.5	FL 660 FL 245	↓			Karlsruhe UAC München ACC
△ AKOSI N 49 42 28 E 012 05 10							
	141.3 321.6	28.6	FL 660 FL 245	↓	↑		Karlsruhe UAC München ACC
△ RUDNO N 49 20 09 E 012 32 29							
	181.9 001.9	17.8	FL 660 FL 245	↓	↑		Karlsruhe UAC München ACC
△ RODING DVOR/DME (RDG) N 49 02 25 E 012 31 36							
	182.9	36.2	FL 660 FL 245	↓			Karlsruhe UAC München ACC
△ DOSEL N 48 26 19 E 012 28 51							
	220.4	42.4	FL 660 FL 245	↓			Karlsruhe UAC München ACC
△ MANAL N 47 53 58 E 011 48 00							
	182.2	11.9	FL 660 FL 245	↓			Karlsruhe UAC München ACC
△ TULSI N 47 42 06 E 011 47 20							
	182.2	20.6	FL 660 FL 245	↓			Karlsruhe UAC München ACC
△ BERAS N 47 21 34 E 011 46 10							
UM738							
△ UTABA N 48 15 18 E 009 27 42							
	163.2	14.3	FL 660 FL 245	↓			Karlsruhe UAC München ACC
△ BATUB N 48 01 09 E 009 33 50							
	144.3	43.3	FL 660 FL 245	↓			Karlsruhe UAC München ACC

Route designator Name of significant points Coordinates	True Track	Geodesic DIST NM	Upper limits Lower limits	Direction of cruising levels Odd Even		Remarks	Controlling Unit
1	2	3	4	5		6	7
△ OSDOV N 47 26 24 E 010 11 00							
	148.2	8.2	FL 660 FL 245	↓			Karlsruhe UAC München ACC
△ MADEB N 47 19 28 E 010 17 20							
	148.4	18.8	FL 660 FL 245	↓			Karlsruhe UAC München ACC
△ TIRUL N 47 03 26 E 010 31 43							

UM748							
△ RARUP N 53 38 30 E 010 40 37							
	325.0	14.6	FL 660 FL 245		↑		Maastricht UAC
△ ABMAL N 53 26 31 E 010 54 43							
	325.3	23.6	FL 660 FL 245		↑		Bremen ACC Karlsruhe UAC
△ BUMIL N 53 07 12 E 011 17 10							
	142.0 322.1	5.2	FL 660 FL 245	↓	↑		Bremen ACC Karlsruhe UAC
△ GURLO N 53 03 07 E 011 22 25							
	142.1 322.2	9.0	FL 660 FL 245	↓	↑		Bremen ACC Karlsruhe UAC
△ ERNUD N 52 56 02 E 011 31 32							
	142.2 322.6	22.7	FL 660 FL 245	↓	↑		Bremen ACC Karlsruhe UAC
△ SOGMA N 52 38 07 E 011 54 19							
	137.2 317.5	19.2	FL 660 FL 245	↓	↑		Bremen ACC Karlsruhe UAC
△ DEXUG N 52 24 01 E 012 15 37							
	136.8 316.8	1.0	FL 660 FL 245	↓	↑		Bremen ACC Karlsruhe UAC
△ SOBLU N 52 23 32 E 012 16 22							
	137.5 317.7	10.8	FL 660 FL 245	↓	↑		Bremen ACC Karlsruhe UAC
△ SUKIP N 52 15 32 E 012 28 17							
	137.6 317.8	11.0	FL 660 FL 245	↓	↑		Bremen ACC Karlsruhe UAC
△ ESIKA N 52 07 26 E 012 40 17							
	137.2 319.1	16.6	FL 660 FL 245	↓	↑		Bremen ACC Karlsruhe UAC
△ MOSEX N 51 55 09 E 012 58 15							
	137.2 319.1	10.0	FL 660 FL 245	↓	↑		Bremen ACC Karlsruhe UAC
△ BOLBO N 51 47 41 E 013 09 04							
	137.2 319.1	10.7	FL 660 FL 245	↓	↑		Bremen ACC Karlsruhe UAC
△ OLBIK N 51 39 45 E 013 20 28							
	137.2 319.1	16.2	FL 660 FL 245	↓	↑		Bremen ACC Karlsruhe UAC
△ OSKAN N 51 27 39 E 013 37 40							
	137.2 319.1	14.6	FL 660 FL 245	↓	↑		Karlsruhe UAC München ACC
△ RENDO N 51 16 41 E 013 53 05							
	137.2 319.1	16.9	FL 660 FL 245	↓	↑		Karlsruhe UAC München ACC
△ ESLOR N 51 03 57 E 014 10 46							
	137.2 319.1	11.0	FL 660 FL 245	↓	↑		Karlsruhe UAC München ACC

Route designator Name of significant points Coordinates	True Track	Geodesic DIST NM	Upper limits Lower limits	Direction of cruising levels Odd Even		Remarks	Controlling Unit
1	2	3	4	5		6	7
△ HERMSDORF DVOR/DME (HDO) N 50 55 41 E 014 22 08							

UM852							
△ LASTO N 51 07 44 E 011 06 38							
	335.9	8.3	FL 660 FL 245		↓		Karlsruhe UAC München ACC
△ SOMIX N 51 15 19 E 011 01 15							
	335.9	8.2	FL 660 FL 245		↓		Karlsruhe UAC München ACC
△ BIRKA N 51 22 46 E 010 55 54							
	355.1	27.4	FL 660 FL 245		↓		Karlsruhe UAC München ACC
△ LARET N 51 50 04 E 010 52 10							
	355.1	17.7	FL 660 FL 245		↓		Maastricht UAC
△ POVEL N 52 07 42 E 010 49 40							
	355.1 175.1	14.2	FL 660 FL 245	↑	↓		Maastricht UAC
△ HEHLINGEN DVOR/DME (HLZ) N 52 21 48 E 010 47 43							
	345.2 164.7	30.0	FL 660 FL 245	↑	↓		Maastricht UAC
△ ULSEN N 52 50 45 E 010 34 55							
	345.2 164.7	17.6	FL 660 FL 245	↑	↓		Maastricht UAC
△ DENIX N 53 07 44 E 010 27 25							
	345.2 164.7	18.7	FL 660 FL 245	↑	↓		Maastricht UAC
△ AMLUH N 53 25 44 E 010 19 21							
	345.2 164.7	16.0	FL 660 FL 245	↑	↓		Maastricht UAC
△ HAMBURG DVORTAC (HAM) N 53 41 08 E 010 12 18							
	346.4 166.2	38.6	FL 660 FL 245	↑	↓	CDR1 FL 280 – FL 410 H24 CDR1 FL 245 – FL 270 FL 430 – FL 660 Mon 2300 (2200) – Tue 0700 (0600) Tue 2300 (2200) – Wed 0700 (0600) Wed 2300 (2200) – Thu 0700 (0600) Thu 2300 (2200) – Fri 0700 (0600) Fri 1100 (1000) – Mon 0700 (0600) legal holidays CDR2 FL 245 – FL 270 FL 430 – FL 660 other times	Maastricht UAC
△ ABGEB N 54 18 34 E 009 56 48							
	346.2 166.2	5.3	FL 660 FL 245	↑	↓	CDR1 FL 280 – FL 410 H24 CDR1 FL 245 – FL 270 FL 430 – FL 660 Mon 2300 (2200) – Tue 0700 (0600) Tue 2300 (2200) – Wed 0700 (0600) Wed 2300 (2200) – Thu 0700 (0600) Thu 2300 (2200) – Fri 0700 (0600) Fri 1100 (1000) – Mon 0700 (0600) legal holidays CDR2 FL 245 – FL 270 FL 430 – FL 660 other times	Maastricht UAC

Route designator Name of significant points Coordinates	True Track	Geodesic DIST NM	Upper limits Lower limits	Direction of cruising levels Odd Even		Remarks	Controlling Unit
1	2	3	4	5		6	7
△ UMWUP N 54 23 40 E 009 54 39							
	346.2 166.2	6.9	FL 660 FL 245	↑	↓	CDR1 FL 280 – FL 410 H24 CDR1 FL 245 – FL 270 FL 430 – FL 660 Mon 2300 (2200) – Tue 0700 (0600) Tue 2300 (2200) – Wed 0700 (0600) Wed 2300 (2200) – Thu 0700 (0600) Thu 2300 (2200) – Fri 0700 (0600) Fri 1100 (1000) – Mon 0700 (0600) legal holidays CDR2 FL 245 – FL 270 FL 430 – FL 660 other times	Maastricht UAC
△ EKERN N 54 30 21 E 009 51 50							
	010.1 190.1	8.8	FL 660 FL 245	↓	↑		Maastricht UAC
△ TUGDU N 54 39 10 E 009 54 39							
	010.6 190.7	9.5	FL 660 FL 245	↓	↑		Maastricht UAC
△ ALASA (FIR BDRY) N 54 48 31 E 009 57 42							
UM864							
△ UNGAV (FIR BDRY) N 54 55 00 E 013 59 41							
	231.9	30.8	FL 660 FL 245		↓	CDR1 FL 245 – FL 300 H24 To avoid ED-D 47 expect TEMPO vectoring by ATC (via BAKLI). Route extension: MAX 5 NM	Bremen ACC Karlsruhe UAC
△ NONSA N 54 35 55 E 013 18 01							
	214.3 034.2	10.1	FL 660 FL 245	↑	↓	CDR1 FL 245 – FL 280 H24 See ENR 5.1 MVPA North-East - reroutings due to military activities on this segment only after publication of NOTAM.	Bremen ACC Karlsruhe UAC
△ PEROM N 54 27 35 E 013 08 16							
	220.0	56.1	FL 660 FL 245		↓	CDR1 FL 245 – FL 660 H24 See ENR 5.1 MVPA North-East To avoid Military Exercise Areas expect TEMPO vectoring by ATC. Route extension: MAX 12 NM	Bremen ACC Karlsruhe UAC
△ NUVEN N 53 44 29 E 012 07 31							
	220.0	26.0	FL 660 FL 245		↓	CDR1 FL 245 – FL 660 H24 See ENR 5.1 MVPA North-East To avoid Military Exercise Areas expect TEMPO vectoring by ATC. Route extension: MAX 12 NM	Bremen ACC Karlsruhe UAC
△ PABMI N 53 24 19 E 011 40 03							
	220.0	22.0	FL 660 FL 245		↓		Bremen ACC Karlsruhe UAC
△ BUMIL N 53 07 12 E 011 17 10							
	220.0	11.4	FL 660 FL 245		↓		Bremen ACC Karlsruhe UAC
△ SORIT N 52 58 15 E 011 05 22							
	220.4	13.9	FL 660 FL 245		↓		Bremen ACC Maastricht UAC

Route designator Name of significant points Coordinates	True Track	Geodesic DIST NM	Upper limits Lower limits	Direction of cruising levels Odd Even		Remarks	Controlling Unit
1	2	3	4	5		6	7
△ LALUB N 52 47 40 E 010 50 25							
	220.4 038.9	24.7	FL 660 FL 245	↑	↓		Maastricht UAC
△ AMALI N 52 28 47 E 010 24 23							
	220.4 038.9	15.4	FL 660 FL 245	↑	↓		Maastricht UAC
△ ATROS N 52 16 58 E 010 08 18							
	220.4 038.9	35.3	FL 660 FL 245	↑	↓		Maastricht UAC
△ TOLGI N 51 49 46 E 009 31 59							
	220.4 038.9	25.0	FL 660 FL 245	↑	↓		Maastricht UAC
△ WARBURG DVOR/DME (WRB) N 51 30 21 E 009 06 39							

UM867							
△ DINKU N 49 14 10 E 010 22 59							
	149.1	29.7	FL 660 FL 245	↓		CDR1 FL 270 – FL 310 FL 370 – FL 450 H24 ALTN route: by ATC	Karlsruhe UAC München ACC
△ XERUM N 48 48 40 E 010 46 04							
	133.9	10.0	FL 660 FL 245	↓		CDR1 FL 270 – FL 310 FL 370 – FL 450 H24 ALTN route: by ATC	Karlsruhe UAC München ACC
△ BURAM N 48 41 44 E 010 56 56							
	134.1	10.0	FL 660 FL 245	↓		CDR1 FL 270 – FL 310 FL 370 – FL 450 H24 ALTN route: by ATC	Karlsruhe UAC München ACC
△ WALDA DVOR/DME (WLD) N 48 34 46 E 011 07 46							
	130.9	28.9	FL 660 FL 245	↓		CDR1 FL 270 – FL 310 FL 370 – FL 450 H24 ALTN route: by ATC	Karlsruhe UAC München ACC
△ BAVAX N 48 15 46 E 011 40 32							
	131.3	7.5	FL 660 FL 245	↓		CDR1 FL 270 – FL 310 FL 370 – FL 450 H24 ALTN route: by ATC	Karlsruhe UAC München ACC
△ MÜNCHEN VOR/DME (MUN) N 48 10 49 E 011 48 58							
	137.2	20.1	FL 660 FL 245	↓			Karlsruhe UAC München ACC
△ VAVOR N 47 56 03 E 012 09 16							
	145.6	14.6	FL 660 FL 245	↓			Karlsruhe UAC München ACC
△ LOMRO N 47 44 00 E 012 21 28							
	137.9	70.6	FL 660 FL 245	↓			Karlsruhe UAC München ACC
△ NOKDA N 46 51 20 E 013 30 29							

UM994							
△ EXOBA N 51 46 02 E 008 19 37							
	076.0 257.8	95.3	FL 660 FL 245	↓	↑		Maastricht UAC

Route designator Name of significant points Coordinates	True Track	Geodesic DIST NM	Upper limits Lower limits	Direction of cruising levels Odd Even		Remarks	Controlling Unit
1	2	3	4	5		6	7
△ POVEL N 52 07 42 E 010 49 40							
	075.8 257.2	69.0	FL 660 FL 285	↓	↑		Karlsruhe UAC
△ PENEK N 52 23 45 E 012 38 48							
	077.6 259.1	44.4	FL 660 FL 285	↓	↑		Karlsruhe UAC
△ ANEBO N 52 32 53 E 013 49 50							
	077.6 259.1	25.9	FL 660 FL 285	↓	↑		Karlsruhe UAC
△ GILAS (FIR BDRY) N 52 37 54 E 014 31 33							