

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
Z1							
△ BODAN (FIR BDRY) N 47 35 15 E 009 27 05							
	002.1	12.7	FL 660 6000 ft MSL		↓		Zürich ACC
△ ALAGO N 47 47 59 E 009 27 46							
	359.9	10.3	FL 660 6000 ft MSL (FL150)		↓		Zürich ACC
△ BIKBI N 47 58 17 E 009 27 44							
	359.9	11.7	FL 660 6000 ft MSL (FL150)		↓		Zürich ACC
△ MINGA N 48 10 00 E 009 27 43							
	359.9	21.8	FL 660 6000 ft MSL (FL150)		↓		Karlsruhe UAC Langen ACC
△ SUDEN N 48 31 45 E 009 27 44							
	359.9	11.9	FL 660 6000 ft MSL (FL150)		↓		Karlsruhe UAC Langen ACC
△ ETAGO N 48 43 39 E 009 27 36							
	007.6	13.8	FL 235 6000 ft MSL (FL150)		↓		Langen ACC
△ NOTGA N 48 57 22 E 009 30 23							

Z2							
△ DEGES N 47 24 45 E 009 12 07							
		16.7	FL 660	↓		Minimum of segment DEGES to DORAP see AIP Switzerland.	Zürich ACC
△ DORAP (FIR BDRY) N 47 28 22 E 009 36 04							
	094.5	23.8	FL 660 12000 ft MSL	↓			Karlsruhe UAC München ACC
△ OSDOV N 47 26 24 E 010 11 00							
	101.2	12.3	FL 660 12000 ft MSL	↓			Karlsruhe UAC München ACC
△ XEBIX N 47 24 00 E 010 28 48							
	101.4	42.9	FL 660 15000 ft MSL	↓			Karlsruhe UAC München ACC
△ TUNUM N 47 15 15 E 011 30 27							
	129.3	13.2	FL 660 15000 ft MSL	↓			Karlsruhe UAC München ACC
△ LIZUM N 47 06 54 E 011 45 22							

Z3							
△ BODAN (FIR BDRY) N 47 35 15 E 009 27 05							
	002.1	12.7	FL 235 6000 ft MSL		↓		Zürich ACC
△ ALAGO N 47 47 59 E 009 27 46							
	359.9	10.3	FL 235 6000 ft MSL		↓		Zürich ACC
△ BIKBI N 47 58 17 E 009 27 44							
	359.9	11.7	FL 235 6000 ft MSL		↓		Zürich ACC
△ MINGA N 48 10 00 E 009 27 43							
	359.9	21.8	FL 235 6000 ft MSL (FL150)		↓		Langen 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
△ SUDEN N 48 31 45 E 009 27 44							
	359.9	11.9	FL 235 6000 ft MSL (FL150)		↓		Langen ACC
△ ETAGO N 48 43 39 E 009 27 36							
	336.9	12.1	FL 235 6000 ft MSL (FL150)		↓		Langen ACC
△ LUBURG VOR/DME (LBU) N 48 54 47 E 009 20 25							
	317.9	22.9	FL 245 5000 ft MSL		↓		Langen ACC
△ TAGIK N 49 11 43 E 008 56 59							
	005.2	15.5	FL 245 5500 ft MSL		↓		Langen ACC
△ KETEG N 49 27 09 E 008 59 09							
	005.2 185.3	3.7	FL 245 5500 ft MSL	↑	↓		Langen ACC
△ EBATU N 49 30 52 E 008 59 40							
	005.2	6.3	FL 245 FL 175		↓		Langen ACC
△ VATAK N 49 37 09 E 009 00 32							
	005.3	18.4	FL 245 FL 175		↓		Langen ACC
△ BATGA N 49 55 25 E 009 03 10							
	339.1	14.0	FL 245 FL 175		↓		Langen ACC
△ ABUMO N 50 08 30 E 008 55 24							

Z4							
△ BODAN (FIR BDRY) N 47 35 15 E 009 27 05							
	002.1	12.7	FL 235 6000 ft MSL		↓		Zürich ACC
△ ALAGO N 47 47 59 E 009 27 46							
	346.2	22.7	FL 235 6000 ft MSL		↓		Zürich ACC
△ ARSUT N 48 10 00 E 009 19 43							

Z5							
△ BODAN (FIR BDRY) N 47 35 15 E 009 27 05							
	002.1	12.7	FL 235 6000 ft MSL		↓		Zürich ACC
△ ALAGO N 47 47 59 E 009 27 46							
	333.0	24.8	FL 235 6000 ft MSL		↓		Zürich ACC
△ LOKTA N 48 10 00 E 009 10 58							

Z6							
△ DEGES N 47 24 45 E 009 12 07							
	060.0	21.1	FL 660 8000 ft MSL	↓			Zürich ACC
△ NUNRI N 47 35 12 E 009 39 09							
	050.1	16.8	FL 105 7000 ft MSL	↓			München ACC
△ ALOXO N 47 46 01 E 009 58 13							
	040.5	18.2	FL 95 6000 ft MSL	↓			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
△ ALLGÄU NDB (ALG) N 47 59 51 E 010 15 44						

Z10						
△ AMETU N 50 49 59 E 008 57 52						
	205.0	13.1	FL 255 5000 ft MSL		↓	Langen ACC
△ GISEM N 50 38 08 E 008 49 10						
	198.5 018.5	4.0	FL 245 5000 ft MSL (FL140)	↑	↓	Langen ACC
△ TOBAK N 50 34 18 E 008 47 09						
	220.1 039.9	9.9	FL 245 5000 ft MSL (FL140)	↑	↓	Langen ACC
△ TESGA N 50 26 42 E 008 37 08						
	220.1 039.9	5.2	FL 245 5000 ft MSL (FL140)	↑	↓	Langen ACC
△ NEGIX N 50 22 42 E 008 31 54						
	222.9 042.8	7.2	FL 245 6000 ft MSL (FL140)	↑	↓	Langen ACC
△ TABUM N 50 17 27 E 008 24 18						
	220.9 040.7	19.3	FL 245 6000 ft MSL (FL140)	↑	↓	Langen ACC
△ RUDUS N 50 02 51 E 008 04 42						

Z12						
△ XIDOD N 49 27 16 E 008 01 33						
	103.5 283.6	6.6	FL 75 5500 ft MSL	↓	↑	CDR1 FL 60 – FL 70 H24 Langen ACC
△ BADOT N 49 25 42 E 008 11 29						
	108.7 288.8	5.1	FL 75 5500 ft MSL	↓	↑	CDR1 FL 60 – FL 70 H24 Langen ACC
△ ERLET N 49 24 04 E 008 18 50						
	108.8 289.1	13.3	FL 75 5500 ft MSL	↓	↑	CDR1 FL 60 – FL 70 H24 Langen ACC
△ RINEX N 49 19 45 E 008 38 08						
	061.5 241.6	8.4	FL 75 5500 ft MSL	↓	↑	Langen ACC
△ UMDAS N 49 23 45 E 008 49 27						
	061.7 241.8	7.2	FL 660 5500 ft MSL	↓	↑	Karlsruhe UAC Langen ACC
△ KETEG N 49 27 09 E 008 59 09						
	089.4 269.7	15.4	FL 660 5500 ft MSL	↓	↑	Karlsruhe UAC Langen ACC
△ OSBAN N 49 27 16 E 009 22 43						
	041.2 221.5	17.1	FL 660 5000 ft MSL	↓	↑	Karlsruhe UAC Langen ACC
△ GIBSA N 49 40 06 E 009 40 03						
	063.2 243.3	6.1	FL 660 5000 ft MSL	↓	↑	Karlsruhe UAC Langen ACC
△ TOSTU N 49 42 49 E 009 48 21						
	087.5 267.6	5.5	FL 660 5000 ft MSL	↓	↑	Karlsruhe UAC Langen ACC

Route designator Name of significant points Coordinates	True Track	Geodesic DIST NM	Upper limits Lower limits	Direction of cruising levels		Remarks	Controlling Unit
1	2	3	4	5		6	7
△ WÜRZBURG VOR (WUR) N 49 43 03 E 009 56 49							
	054.3 234.4	7.2	FL 660 5000 ft MSL	↓	↑		Karlsruhe UAC Langen ACC
△ EKPUT N 49 47 13 E 010 05 48							
	054.5 234.7	14.0	FL 660 5000 ft MSL	↓	↑		Karlsruhe UAC Langen ACC
△ BARSU N 49 55 18 E 010 23 22							
	054.8 235.0	16.1	FL 660 5000 ft MSL	↓	↑		Karlsruhe UAC Langen ACC München ACC
△ SULUS N 50 04 31 E 010 43 44							
	048.1 228.3	11.1	FL 255 6000 ft MSL	↓	↑		München ACC
△ KODUK N 50 11 52 E 010 56 32							
	048.1	14.7	FL 255 6000 ft MSL	↓			München ACC
△ LASGA N 50 21 38 E 011 13 41							

Z14	Only available by ATC.						
△ SULIV N 54 33 59 E 012 31 48							
	037.0 217.1	10.8	FL 660 FL 95	↓	↑		Bremen ACC Karlsruhe UAC
△ RAMUX N 54 42 36 E 012 43 01							
	055.6 235.8	9.2	FL 660 FL 95	↓	↑		Bremen ACC Karlsruhe UAC
△ BANKU N 54 47 45 E 012 56 07							
	107.5 288.4	42.0	FL 660 FL 95	↑	↓		Bremen ACC Karlsruhe UAC
△ BEBEB N 54 34 51 E 014 04 56							
	185.6 005.5	57.7	FL 660 FL 95	↑	↓		Bremen ACC Karlsruhe UAC
△ ADEPO N 53 37 31 E 013 55 31							
	198.4 018.2	37.0	FL 660 FL 95	↑	↓		Bremen ACC Karlsruhe UAC
△ LOLPA N 53 02 29 E 013 36 09							
	213.2 032.8	37.9	FL 660 FL 325	↑	↓		Karlsruhe UAC
△ ERAKU N 52 30 44 E 013 02 11							
	231.8 050.7	62.5	FL 660 FL 325	↑	↓		Karlsruhe UAC
△ BARAP N 51 51 42 E 011 43 01							
	229.4 049.0	22.3	FL 660 FL 325	↑	↓		Karlsruhe UAC
△ KENIG N 51 37 10 E 011 15 52							

Z20							
△ SLUBICE VOR/DME (SUI) N 52 22 47 E 014 35 08							
	258.5 076.3	18.7	FL 245 4000 ft MSL	↑	↓		Bremen ACC
△ GORIG N 52 19 00 E 014 05 17							
	258.5 076.3	13.4	FL 245 4000 ft MSL	↑	↓		Bremen ACC
△ SONUD N 52 16 11 E 013 43 57							
	257.8 077.2	29.3	FL 245 4000 ft MSL	↑	↓		Bremen 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
△ LULUL N 52 09 50 E 012 57 22							
	257.2 077.0	10.8	FL 245 4000 ft MSL	↑	↓		Bremen ACC
△ ESIKA N 52 07 26 E 012 40 17							
	258.5 076.3	10.4	FL 245 4000 ft MSL (FL130)	↑	↓		Bremen ACC
△ BUROK N 52 05 04 E 012 23 51							
	258.5 076.3	23.0	FL 245 4000 ft MSL (FL130)	↑	↓		Bremen ACC
△ MAGDEBURG VOR/DME (MAG) N 51 59 42 E 011 47 40							
	221.4 041.2	12.4	FL 245 5000 ft MSL	↑	↓		München ACC
△ DIBDO N 51 50 23 E 011 34 26							
	221.2 041.0	17.6	FL 245 5000 ft MSL	↑	↓		München ACC
△ KENIG N 51 37 10 E 011 15 52							
	221.4 040.7	10.6	FL 245 5000 ft MSL	↑	↓		München ACC
△ ORTAG N 51 29 12 E 011 04 47							
	221.4 040.7	8.5	FL 245 5000 ft MSL	↑	↓		München ACC
△ BIRKA N 51 22 46 E 010 55 54							
	250.0	18.4	FL 245 5000 ft MSL		↓		Langen ACC München ACC
△ ESEGU N 51 16 24 E 010 28 19							
	246.1	33.7	FL 245 5000 ft MSL		↓		Langen ACC
△ BEBLA N 51 02 30 E 009 39 33							
	246.1	15.9	FL 245 5000 ft MSL (FL140)		↓		Langen ACC
△ RANIN N 50 55 57 E 009 16 38							
	224.5	24.9	FL 245 5000 ft MSL (FL140)		↓		Langen ACC
△ GISEM N 50 38 08 E 008 49 10							

Z21							
△ WARBURG DVOR/DME (WRB) N 51 30 21 E 009 06 39							
	095.0	23.5	FL 235 5000 ft MSL	↓			Bremen ACC
△ WERRA N 51 28 12 E 009 44 03							
	095.0	29.5	FL 235 5000 ft MSL	↓			Bremen ACC
△ BERDI N 51 25 13 E 010 31 00							
	098.8	15.8	FL 245 5000 ft MSL	↓			München ACC
△ BIRKA N 51 22 46 E 010 55 54							
	086.5	19.5	FL 245 5000 ft MSL	↓			München ACC
△ GALMA N 51 23 53 E 011 27 04							
	086.5	19.5	FL 245 5000 ft MSL	↓			München ACC
△ OSKAT N 51 24 52 E 011 58 10							
	086.5	21.8	FL 245 5000 ft MSL	↓			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
△ TADUV N 51 25 48 E 012 32 53							
	121.7	15.8	FL 245 5000 ft MSL	↓		CDR1 FL 110 – FL 190 H24	München ACC
△ OSTRA N 51 17 27 E 012 54 19							
	121.7	13.6	FL 245 5000 ft MSL	↓		CDR1 FL 110 – FL 190 H24	München ACC
△ TORPU N 51 10 15 E 013 12 38							
	121.7	7.0	FL 245 5000 ft MSL	↓		CDR1 FL 110 – FL 190 H24	München ACC
△ RIVSA N 51 06 31 E 013 22 00							
	121.7	10.4	FL 245 5000 ft MSL	↓			München ACC
△ DRESDEN DVOR/DME (DRN) N 51 00 56 E 013 35 56							
	122.1	9.5	FL 245 5000 ft MSL	↓			München ACC
△ RIKLU N 50 55 52 E 013 48 40							
	122.7	9.1	FL 245 5000 ft MSL	↓			München ACC
△ OMELO (FIR BDRY) N 50 50 16 E 014 00 03							

Z35							
△ TONSU N 49 58 11 E 011 13 33							
	092.7	15.2	FL 245 7500 ft MSL	↓			München ACC
△ BAROB N 49 57 26 E 011 37 02							
	093.0	12.2	FL 245 7500 ft MSL	↓			München ACC
△ RONIG N 49 56 46 E 011 55 57							
	091.8	15.7	FL 245 7500 ft MSL	↓			München ACC
△ ODOMO N 49 56 14 E 012 20 38							
	092.4	34.8	FL 245 4500 ft MSL	↓			München ACC Praha ACC
△ LOMKI N 49 54 34 E 013 14 28							

Z36							
△ BESKO N 52 14 44 E 014 06 11							
	190.4 010.4	24.4	FL 245 7000 ft MSL	↑	↓		Bremen ACC
△ POGAB N 51 50 43 E 013 59 02							
	190.4	6.7	FL 245 7000 ft MSL		↓		Bremen ACC
△ SISGO N 51 44 07 E 013 57 06							
	190.4	17.0	FL 245 7000 ft MSL		↓		Bremen ACC München ACC
△ BEBKU N 51 27 25 E 013 52 14							
	190.3	34.4	FL 245 7000 ft MSL		↓		München ACC
△ PIKIB N 50 53 36 E 013 42 33							
	196.0	11.1	FL 245 7000 ft MSL		↓		München ACC
△ MAREM (FIR BDRY) N 50 42 56 E 013 37 44							

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
Z39							
△ NENUM N 48 32 19 E 012 56 52							
	029.6	10.3	FL 245 5000 ft MSL	↓			München ACC
△ GONBA N 48 41 16 E 013 04 33							
	029.7	13.3	FL 245 6500 ft MSL	↓			München ACC
△ LALIN N 48 52 48 E 013 14 32							
	029.7	14.8	FL 245 7500 ft MSL	↓			München ACC
△ DOMAL N 49 05 40 E 013 25 43							

Z41							
△ EBATU N 49 30 52 E 008 59 40							
	339.5 159.4	8.0	FL 245 5500 ft MSL	↑	↓		Langen ACC
△ NEBLU N 49 38 21 E 008 55 21							
	339.4 159.3	8.1	FL 245 5500 ft MSL	↑	↓		Langen ACC
△ OLKAS N 49 45 58 E 008 50 56							
	007.4 187.5	9.5	FL 245 5000 ft MSL (FL140)	↑	↓		Langen ACC
△ KOSEK N 49 55 22 E 008 52 50							
	007.1 187.2	13.2	FL 245 5000 ft MSL (FL140)	↑	↓		Langen ACC
△ ABUMO N 50 08 30 E 008 55 24							

Z44							
△ HAMM DVOR/DME (HMM) N 51 51 25 E 007 42 30							
	089.4	18.6	FL 245 3500 ft MSL	↑			Langen ACC
△ MEVEL N 51 51 17 E 007 12 34							

Z45							
△ HAMM DVOR/DME (HMM) N 51 51 25 E 007 42 30							
	207.1	9.9	FL 115 3500 ft MSL		↓		Langen ACC
△ DOMEQ N 51 42 34 E 007 35 14							

Z47							
△ ELTUK N 52 00 31 E 007 52 02							
	130.1	22.4	FL 660 4000 ft MSL	↓			Langen ACC Maastricht UAC
△ EXOBA N 51 46 02 E 008 19 37							

Z52							
△ MASEK N 50 43 45 E 009 35 54							
	282.2 102.1	6.4	FL 245 6000 ft MSL	↑	↓		Langen ACC
△ SOPOX N 50 45 06 E 009 26 00							
	282.1 101.7	21.3	FL 245 6000 ft MSL	↑	↓		Langen 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
△ OHMAR N 50 49 30 E 008 53 06							
	298.4 117.4	24.8	FL 245 6000 ft MSL	↑	↓		Langen ACC
△ ARPEG N 51 01 00 E 008 18 23							

Z54							
△ RINEX N 49 19 45 E 008 38 08							
	086.5	26.3	FL 245 5500 ft MSL	↓			Langen ACC
△ ROLSO N 49 21 15 E 009 18 19							
	093.3	14.3	FL 245 5000 ft MSL	↓			Langen ACC
△ LAMPU N 49 20 24 E 009 40 05							
	135.0	14.7	FL 245 5000 ft MSL	↓			Langen ACC
△ GEBNO N 49 10 00 E 009 55 56							
	135.2	8.7	FL 245 5000 ft MSL	↓			Langen ACC
△ NOMBO N 49 03 49 E 010 05 17							

Z56							
△ ROLSO N 49 21 15 E 009 18 19							
	025.4	6.7	FL 195 5500 ft MSL	↓			Langen ACC
△ OSBAN N 49 27 16 E 009 22 43							

Z58							
△ SOPOX N 50 45 06 E 009 26 00							
	250.4	24.2	FL 165 5500 ft MSL		↑		Langen ACC
△ ERDOK N 50 53 19 E 010 01 53							

Z74							
△ ASKIK N 50 03 10 E 008 32 01							
	120.0	15.5	FL 245 FL 115 (FL140)	↓			Langen ACC
△ KOSEK N 49 55 22 E 008 52 50							
	131.5	15.9	FL 245 5000 ft MSL (FL120)	↓			Langen ACC
△ AKONI N 49 44 48 E 009 11 15							
	130.7	11.7	FL 245 5000 ft MSL (FL120)	↓			Langen ACC
△ HAREM N 49 37 06 E 009 24 52							

Z75							
△ BOMBI N 50 03 24 E 008 48 01							
	227.5	16.9	FL 205 4000 ft MSL (FL140)		↓		Langen ACC
△ NOKDI N 49 51 59 E 008 28 45							

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
Z76							
△ XATER N 47 49 39 E 011 05 45							
	324.5 144.3	20.3	FL 95 6000 ft MSL	↑	↓		München ACC
△ AMEXO N 48 06 06 E 010 48 12							
	331.0 150.7	33.8	FL 95 5000 ft MSL	↑	↓		München ACC
△ ABGAS N 48 35 37 E 010 23 30							
	345.0 164.9	22.3	FL 205 5000 ft MSL	↑	↓		München ACC
△ ELVAG N 48 57 06 E 010 14 47							
	317.0	9.2	FL 205 5000 ft MSL		↓		Langen ACC
△ NOMBO N 49 03 49 E 010 05 17							
	315.3	8.7	FL 205 5000 ft MSL		↓		Langen ACC
△ GEBNO N 49 10 00 E 009 55 56							
	349.9 169.8	26.9	FL 205 5000 ft MSL	↑	↓		Langen ACC
△ NIKUT N 49 36 28 E 009 48 39							
Z77							
△ AMOSA N 49 30 34 E 010 48 41							
	022.2	24.0	FL 245 5000 ft MSL	↓			Langen ACC München ACC
△ BAMAS N 49 52 48 E 011 02 45							
	030.5	13.7	FL 245 5000 ft MSL	↓			München ACC
△ LONLI N 50 04 29 E 011 13 35							
Z78							
△ BASUM N 52 46 19 E 008 47 19							
	005.1 185.2	34.7	FL 660 4000 ft MSL	↓	↑		Bremen ACC Maastricht UAC
△ WESER NDB (WSN) N 53 20 50 E 008 52 29							
Z79							
△ TITIG N 48 03 32 E 012 33 34							
	335.7	22.1	FL 195 6000 ft MSL		↓		München ACC
△ DETEX N 48 23 40 E 012 19 53							
	263.8 083.4	22.0	FL 195 5000 ft MSL	↑	↓		München ACC
△ DETUM N 48 21 14 E 011 47 10							
	263.3 082.9	24.7	FL 195 5000 ft MSL	↑	↓		München ACC
△ DETOB N 48 18 19 E 011 10 29							
	319.0 138.7	22.6	FL 195 5000 ft MSL	↑	↓		München ACC
△ RIDAR N 48 35 18 E 010 48 10							
	273.1 091.0	16.4	FL 95 5000 ft MSL	↑	↓		München ACC
△ ABGAS N 48 35 37 E 010 23 30							
	220.6 040.2	29.6	FL 95 5000 ft MSL	↑	↓		München ACC

Route designator Name of significant points Coordinates	True Track	Geodesic DIST NM	Upper limits Lower limits	Direction of cruising levels		Remarks	Controlling Unit
1	2	3	4	5		6	7
△ LUPOL N 48 13 05 E 009 54 39							
	301.9	13.8	FL 95 5000 ft MSL		↓		München ACC
△ KUNOD N 48 20 20 E 009 37 07							
	331.4	13.0	FL 95 5000 ft MSL		↓		Langen ACC München ACC
△ SUDEN N 48 31 45 E 009 27 44							

Z85							
△ RANAX N 51 12 26 E 009 02 46							
	131.8	20.1	FL 660 FL 245	↓			Karlsruhe UAC Maastricht UAC
△ ANANO N 50 59 01 E 009 26 27							

Z88							
△ UPDAT N 51 55 43 E 010 13 12							
	147.1	23.0	FL 245 5000 ft MSL	↑			Bremen ACC
△ LEINE DVOR/DME (DLE) N 52 15 01 E 009 53 01							
	320.4 140.0	29.4	FL 660 5000 ft MSL	↑	↓		Bremen ACC Maastricht UAC
△ NIENBURG VOR (NIE) N 52 37 33 E 009 22 19							
	339.8 159.8	8.6	FL 245 4000 ft MSL	↑	↓		Bremen ACC
△ GUKMA N 52 45 40 E 009 17 31							
	339.8 159.7	8.6	FL 245 4000 ft MSL	↑	↓		Bremen ACC
△ VERED N 52 53 41 E 009 12 38							
	336.1	29.8	FL 245 4000 ft MSL		↓		Bremen ACC
△ WESER NDB (WSN) N 53 20 50 E 008 52 29							

Z90							
△ TOLGI N 51 49 46 E 009 31 59							
	027.0	28.4	FL 660 FL 245		↓		Maastricht UAC
△ LEINE DVOR/DME (DLE) N 52 15 01 E 009 53 01							

Z92							
△ MAGDEBURG VOR/DME (MAG) N 51 59 42 E 011 47 40							
	254.7 074.2	21.9	FL 245 4000 ft MSL	↑	↓		Bremen ACC
△ IRKOX N 51 53 51 E 011 13 38							
	254.2 074.1	6.7	FL 245 4000 ft MSL	↑	↓		Bremen ACC
△ ABGUS N 51 52 01 E 011 03 12							
	254.1 074.0	7.1	FL 245 7000 ft MSL	↑	↓		Bremen ACC
△ LARET N 51 50 04 E 010 52 10							
	253.9 073.8	8.2	FL 245 7000 ft MSL	↑	↓		Bremen ACC
△ BOKSO N 51 47 48 E 010 39 32							
	253.8 073.1	34.8	FL 245 7000 ft MSL	↑	↓		Bremen 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
△ LUXUX N 51 37 54 E 009 45 53							
	253.6 072.6	25.6	FL 245 5000 ft MSL	↑	↓		Bremen ACC
△ WARBURG DVOR/DME (WRB) N 51 30 21 E 009 06 39							

Z93							
△ RAPET N 50 11 26 E 012 20 19							
	269.8	19.9	FL 245 7000 ft MSL		↓		München ACC
△ UNAVI N 50 11 17 E 011 49 20							
	271.3	33.9	FL 245 7000 ft MSL		↓		München ACC
△ KODUK N 50 11 52 E 010 56 32							
	269.5	20.7	FL 245 5500 ft MSL		↓		München ACC
△ GUDOM N 50 11 37 E 010 24 17							
	269.1	14.4	FL 245 5500 ft MSL		↓		Langen ACC
△ RITUP N 50 11 21 E 010 01 48							
	269.3	28.6	FL 245 FL 115 (FL140)		↓		Langen ACC
△ ETOLU N 50 10 52 E 009 17 19							
	234.8	12.6	FL 245 FL 115 (FL140)		↓		Langen ACC
△ BAMTO N 50 03 38 E 009 01 23							
	213.8	9.9	FL 245 FL 115 (FL140)		↓		Langen ACC
△ KOSEK N 49 55 22 E 008 52 50							
	213.7	13.4	FL 245 FL 115 (FL140)		↓		Langen ACC
△ UBENO N 49 44 14 E 008 41 24							

Z94							
△ TOSTU N 49 42 49 E 009 48 21							
	027.6 207.9	24.4	FL 245 5000 ft MSL	↓	↑		Langen ACC
△ RASPU N 50 04 22 E 010 05 55							
	058.4 238.6	13.9	FL 245 5000 ft MSL	↓	↑		Langen ACC
△ GUDOM N 50 11 37 E 010 24 17							
	058.6 238.7	3.6	FL 245 5000 ft MSL	↓	↑		München ACC
△ GORKO N 50 13 28 E 010 29 02							
	034.5 214.6	8.5	FL 245 5000 ft MSL	↓	↑		München ACC
△ BOKNI N 50 20 27 E 010 36 32							
	034.7 214.7	6.9	FL 245 5000 ft MSL	↓	↑		München ACC
△ PILAM N 50 26 06 E 010 42 40							
	034.7 214.8	7.1	FL 245 5000 ft MSL	↓	↑		München ACC
△ VAGAB N 50 31 58 E 010 49 02							
	034.8 215.0	13.8	FL 245 5000 ft MSL	↓	↑		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
△ BAMKI N 50 43 05 E 011 01 13							
	030.4 210.5	8.8	FL 245 5000 ft MSL	↓	↑		München ACC
△ NENAN N 50 50 39 E 011 08 14							
	030.5 210.6	7.4	FL 245 5000 ft MSL	↓	↑		München ACC
△ ERFURT DVOR/DME (ERF) N 50 57 03 E 011 14 12							
	196.7	2.0	FL 245 5000 ft MSL		↑		München ACC
△ WEMAR N 50 58 59 E 011 15 07							
	196.9	26.0	FL 245 5000 ft MSL		↑		München ACC
△ GALMA N 51 23 53 E 011 27 04							
	152.2	15.0	FL 245 5000 ft MSL	↑			München ACC
△ KENIG N 51 37 10 E 011 15 52							
	152.0	16.8	FL 245 5000 ft MSL	↑			München ACC
△ ABGUS N 51 52 01 E 011 03 12							
	151.9	17.8	FL 245 5000 ft MSL	↑			Bremen ACC
△ POVEL N 52 07 42 E 010 49 40							

Z97							
△ RINEX N 49 19 45 E 008 38 08							
	247.6	6.8	FL 105 5000 ft MSL		↓		Langen ACC
△ NEKLO N 49 17 10 E 008 28 35							
	272.6	11.2	FL 105 5500 ft MSL		↓		Langen ACC
△ MANEM N 49 17 40 E 008 11 30							

Z98							
△ RIDAR N 48 35 18 E 010 48 10							
	092.2 272.5	13.0	FL 245 4000 ft MSL	↓	↑		München ACC
△ WALDA DVOR/DME (WLD) N 48 34 46 E 011 07 46							
	091.5 271.9	18.7	FL 245 4000 ft MSL	↓	↑		München ACC
△ MIKE NDB (MIQ) N 48 34 13 E 011 35 51							

Z99							
△ RIMKI N 49 44 56 E 009 21 50							
	013.9	19.7	FL 660 FL 245		↓		Karlsruhe UAC Langen ACC
△ LOHRE N 50 04 01 E 009 29 11							

Z100							
△ IDARO N 49 42 25 E 006 57 19							
	021.8	13.5	FL 105 6000 ft MSL	↓			Langen ACC
△ TIGPI N 49 54 55 E 007 05 04							
	064.9	4.8	FL 245 5000 ft MSL	↓			Langen 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
△ SOMIM N 49 56 58 E 007 11 51						
	103.1	5.3	FL 245 5000 ft MSL	↓		Langen ACC
△ ABSIX N 49 55 46 E 007 19 49						
	103.2	15.5	FL 245 5000 ft MSL	↓		Langen ACC
△ ULKIG N 49 52 11 E 007 43 10						
	052.3	17.5	FL 245 5000 ft MSL (FL140)	↓		Langen ACC
△ RUDUS N 50 02 51 E 008 04 42						

Z104						
△ IBAGA N 49 44 39 E 010 33 35						
	278.3	18.2	FL 245 5000 ft MSL (FL220)	↓		Langen ACC
△ EKPOT N 49 47 13 E 010 05 48						
	276.4	19.8	FL 245 5000 ft MSL (FL220)	↓		Langen ACC
△ LEPSA N 49 49 22 E 009 35 26						
	284.3	9.7	FL 245 5000 ft MSL (FL220)	↓		Langen ACC
△ SPESSART NDB (PSA) N 49 51 44 E 009 20 54						
	287.9	12.1	FL 245 5000 ft MSL (FL220)	↓		Langen ACC
△ BATGA N 49 55 25 E 009 03 10						
	269.7	6.7	FL 245 5000 ft MSL (FL120)	↓		Langen ACC
△ KOSEK N 49 55 22 E 008 52 50						
	257.9	15.9	FL 245 5000 ft MSL (FL120)	↓		Langen ACC
△ NOKDI N 49 51 59 E 008 28 45						
	283.3	20.7	FL 245 5000 ft MSL (FL140)	↓		Langen ACC
△ MISGI N 49 56 43 E 007 57 32						
	286.4	9.1	FL 660 5000 ft MSL (FL140)	↓		Karlsruhe UAC Langen ACC
△ OLGIL N 49 59 16 E 007 44 02						
	287.8	12.5	FL 660 5000 ft MSL (FL140)	↓		Karlsruhe UAC Langen ACC
△ SIPVU N 50 03 04 E 007 25 31						
	287.4	5.4	FL 660 5000 ft MSL	↓		Karlsruhe UAC Langen ACC
△ IDOVI N 50 04 41 E 007 17 29						
	273.9	16.0	FL 245 5000 ft MSL	↓		Langen ACC
△ ODVUX N 50 05 43 E 006 52 46						
	268.2	4.8	FL 245 5000 ft MSL	↓		Langen ACC
△ AGBUL N 50 05 34 E 006 45 23						
	268.2	13.5	FL 245 FL 75	↓		Langen 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
△ LULAT N 50 05 07 E 006 24 24							
	267.9	7.6	FL 245 FL 75		↓		Langen ACC
△ TIPUT N 50 04 50 E 006 12 40							
	267.9	3.6	FL 245 FL 75		↓		Langen ACC
△ ROBON (FIR BDRY) N 50 04 42 E 006 07 05							

Z106							
△ OLETU N 48 28 01 E 011 36 21							
	167.1	12.6	FL 660 5000 ft MSL	↓			Karlsruhe UAC München ACC
△ BAVAX N 48 15 46 E 011 40 32							
	167.0	22.4	FL 660 5000 ft MSL	↓			Karlsruhe UAC München ACC
△ MANAL N 47 53 58 E 011 48 00							

Z109							
△ UPALA N 49 12 52 E 011 13 17							
	350.4	22.6	FL 660 5000 ft MSL		↓		Karlsruhe UAC München ACC
△ RODOG N 49 35 03 E 011 07 28							
	350.3	18.0	FL 660 5000 ft MSL		↓		Karlsruhe UAC München ACC
△ BAMAS N 49 52 48 E 011 02 45							
	358.9	11.7	FL 660 5000 ft MSL		↓		Karlsruhe UAC München ACC
△ EBESI N 50 04 31 E 011 02 24							
	358.9	18.8	FL 660 5000 ft MSL		↓		Karlsruhe UAC München ACC
△ PIBAD N 50 23 19 E 011 01 49							
	358.9	19.8	FL 660 6000 ft MSL		↓		Karlsruhe UAC München ACC
△ BAMKI N 50 43 05 E 011 01 13							
	355.2	39.9	FL 660 5000 ft MSL		↓		Karlsruhe UAC München ACC
△ BIRKA N 51 22 46 E 010 55 54							
	310.6	14.6	FL 245 6000 ft MSL		↓		Bremen ACC München ACC
△ KUMER N 51 32 15 E 010 38 06							

Z110							
△ BETEX (FIR BDRY) N 49 48 57 E 006 25 31							
	027.5 207.5	11.4	FL 245 FL 75	↓	↑		Langen ACC
△ BITBU N 49 58 59 E 006 33 42							
	018.1	28.8	FL 245 FL 75	↓			Langen ACC
△ RASVO N 50 26 17 E 006 47 42							

Z111							
△ PITES (FIR BDRY) N 49 43 43 E 006 31 10							
	052.7	30.1	FL 235 5000 ft MSL	↓		CDR1 5000 ft – FL 245 2300 (2200) – 0600 (0500) Other times route not available.	Langen 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
△ OBIGA N 50 01 51 E 007 08 18						
	076.9	21.6	FL 235 5000 ft MSL	↓	CDR1 5000 ft – FL 245 2300 (2200) – 0600 (0500) Other times route not available.	Langen ACC
△ RAMOB N 50 06 41 E 007 41 02						

Z112						
△ UNOKO N 50 27 17 E 007 13 38						
	102.6	5.6	FL 245 5000 ft MSL	↓		Langen ACC
△ IBVIL N 50 26 04 E 007 22 09						
	157.5	9.0	FL 245 5000 ft MSL	↓		Langen ACC
△ MANUV N 50 17 44 E 007 27 32						
	141.8	14.1	FL 245 5000 ft MSL	↓		Langen ACC
△ RAMOB N 50 06 41 E 007 41 02						

Z113						
△ DENIX N 53 07 44 E 010 27 25						
	183.4 003.4	25.5	FL 660 4000 ft MSL	↓	↑	Bremen ACC Maastricht UAC
△ OBATU N 52 42 20 E 010 24 55						
	215.7 033.6	33.6	FL 245 4000 ft MSL	↓	↑	Bremen ACC
△ LEINE DVOR/DME (DLE) N 52 15 01 E 009 53 01						

Z114						
△ TUDGA N 49 35 16 E 008 51 02						
	303.9	14.9	FL 660 5000 ft MSL (FL120)		↓	Karlsruhe UAC Langen ACC
△ ODAVU N 49 43 32 E 008 32 02						
	303.7 123.7	2.5	FL 660 5000 ft MSL (FL120)	↑	↓	Karlsruhe UAC Langen ACC
△ RIDSU N 49 44 56 E 008 28 48						
	284.1	18.1	FL 660 5000 ft MSL (FL120)		↓	Karlsruhe UAC Langen ACC
△ DONAB N 49 49 16 E 008 01 45						
	286.2	45.2	FL 660 5000 ft MSL (FL120)		↓	Karlsruhe UAC Langen ACC
△ ADENU N 50 01 32 E 006 54 30						

Z118						
△ OSBIT N 50 04 12 E 009 46 59						
	256.1	36.0	FL 245 FL 215		↓	Langen ACC
△ KOSEK N 49 55 22 E 008 52 50						

Z120						
△ BOMBI N 50 03 24 E 008 48 01						
	173.8	17.6	FL 245 FL 115 (FL140)		↓	Langen 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
△ OLKAS N 49 45 58 E 008 50 56						

Z123						
△ EGAKA N 49 51 26 E 008 44 55						
	273.2	10.5	FL 245 5000 ft MSL (FL140)		↓	Langen ACC
△ NOKDI N 49 51 59 E 008 28 45						

Z130						
△ MASOR N 53 55 27 E 013 38 45						
	200.7	13.9	FL 245 4000 ft MSL		↓	CDR1 FL 100 – FL 245 H24 See ENR 5.1 MVPA North-East. To avoid Military Exercise Areas expect TEMPO vectoring by ATC. Route extension: MAX 38 NM. Bremen ACC
△ RITEV N 53 42 29 E 013 30 30						
	204.8	30.3	FL 245 4000 ft MSL		↓	CDR1 FL 100 – FL 245 H24 See ENR 5.1 MVPA North-East. To avoid Military Exercise Areas expect TEMPO vectoring by ATC. Route extension: MAX 38 NM. Bremen ACC
△ LINVO N 53 14 59 E 013 09 18						
	214.2	12.6	FL 245 4000 ft MSL		↓	CDR1 FL 100 – FL 245 H24 See ENR 5.1 MVPA North-East. To avoid Military Exercise Areas expect TEMPO vectoring by ATC. Route extension: MAX 38 NM. Bremen ACC
△ NASMI N 53 04 26 E 012 57 28						
	213.6	8.4	FL 245 4000 ft MSL		↓	CDR1 FL 100 – FL 245 H24 See ENR 5.1 MVPA North-East. To avoid Military Exercise Areas expect TEMPO vectoring by ATC. Route extension: MAX 38 NM. Bremen ACC
△ PODUS N 52 57 33 E 012 49 50						

Z131						
△ GUDOP N 53 01 47 E 013 10 15						
	027.0	33.7	FL 245 4000 ft MSL		↓	CDR1 FL 110 – FL 245 H24 See ENR 5.1 MVPA North-East. To avoid Military Exercise Areas expect TEMPO vectoring by ATC. Bremen ACC
△ TIRMI N 53 31 41 E 013 35 50						
	026.8	10.6	FL 245 4000 ft MSL		↓	CDR1 FL 110 – FL 245 H24 See ENR 5.1 MVPA North-East. To avoid Military Exercise Areas expect TEMPO vectoring by ATC. Bremen ACC
△ RODEP N 53 41 10 E 013 43 53						
	026.9	5.1	FL 245 4000 ft MSL		↓	CDR1 FL 110 – FL 245 H24 See ENR 5.1 MVPA North-East. To avoid Military Exercise Areas expect TEMPO vectoring by ATC. Bremen 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
△ TORLO N 53 45 44 E 013 47 48							
Z163							
△ BODAN (FIR BDRY) N 47 35 15 E 009 27 05							
	090.3	8.2	FL 660 6000 ft MSL	↓			Zürich ACC
△ NUNRI N 47 35 12 E 009 39 09							
Z190							
△ WARBURG DVOR/DME (WRB) N 51 30 21 E 009 06 39							
	128.8 308.9	7.5	FL 245 5000 ft MSL	↓	↑		Bremen ACC
△ ROBAR N 51 25 39 E 009 16 01							
	129.8 310.2	20.8	FL 245 5000 ft MSL	↓	↑		Bremen ACC Langen ACC
△ ELNAT N 51 12 16 E 009 41 28							
	145.7 325.9	18.3	FL 245 5000 ft MSL	↓	↑		Langen ACC
△ ERSET N 50 57 09 E 009 57 47							
	145.9 326.0	4.6	FL 245 5000 ft MSL	↓	↑		Langen ACC
△ ERDOK N 50 53 19 E 010 01 53							
	146.2 326.2	3.1	FL 245 5000 ft MSL	↓	↑		Langen ACC
△ MAGES N 50 50 47 E 010 04 35							
	146.0 326.1	13.9	FL 245 5000 ft MSL	↓	↑		Langen ACC
△ GAPLA N 50 39 14 E 010 16 50							
	146.1 326.2	7.4	FL 245 5000 ft MSL	↓	↑		Langen ACC
△ ADIBA N 50 33 06 E 010 23 16							
	146.2	6.0	FL 245 5000 ft MSL	↓			Langen ACC
△ VELIS N 50 28 09 E 010 28 29							
	145.7	9.3	FL 245 5000 ft MSL	↓			München ACC
△ BOKNI N 50 20 27 E 010 36 32							
	123.6	15.4	FL 245 5000 ft MSL	↓			München ACC
△ KODUK N 50 11 52 E 010 56 32							
	123.6	13.2	FL 245 5000 ft MSL	↓			München ACC
△ LONLI N 50 04 29 E 011 13 35							
	115.1	16.6	FL 245 5000 ft MSL	↓			München ACC
△ BAROB N 49 57 26 E 011 37 02							
	113.0	15.8	FL 245 5000 ft MSL	↓			München ACC
△ NIKUS N 49 51 13 E 011 59 33							
Z220							
△ KORUP (FIR BDRY) N 51 34 59 E 014 44 17							
	257.2 076.8	18.7	FL 245 5000 ft MSL	↑	↓		München ACC
△ KOBUS N 51 30 48 E 014 15 09							
	256.8	14.7	FL 245 5000 ft MSL		↓		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
△ BEBKU N 51 27 25 E 013 52 14							
	256.6	26.2	FL 245 5000 ft MSL		↓		München ACC
△ BEBEX N 51 21 13 E 013 11 39							

Z225							
△ TORPU N 51 10 15 E 013 12 38							
	077.1	67.5	FL 315 5000 ft MSL	↓			München ACC
△ LASIS (FIR BDRY) N 51 24 25 E 014 57 42							

Z282							
△ LIMA NDB (LMA) N 51 22 15 E 006 23 42							
	241.1 061.1	5.3	FL 245 3500 ft MSL	↑	↓		Langen ACC
△ NETEX N 51 19 41 E 006 16 17							
	241.1 061.1	6.3	FL 245 3500 ft MSL	↑	↓		Langen ACC
△ DIBIR (FIR BDRY) N 51 16 37 E 006 07 28							

Z283							
△ VEBAK N 51 27 29 E 006 20 53							
	200.3 020.2	8.3	FL 660 3500 ft MSL	↑	↓		Langen ACC Maastricht UAC
△ NETEX N 51 19 41 E 006 16 17							
	200.2 020.1	11.7	FL 660 3500 ft MSL	↑	↓		Langen ACC Maastricht UAC
△ ZELTI N 51 08 42 E 006 09 51							
	200.1	8.2	FL 660 3500 ft MSL		↓		Langen ACC Maastricht UAC
△ MODRU N 51 01 03 E 006 05 24							
	212.1	5.3	FL 660 FL 95		↓		Langen ACC Maastricht UAC
△ SUMAS (FIR BDRY) N 50 56 35 E 006 00 59							

Z334							
△ VEBAK N 51 27 29 E 006 20 53							
	208.1 027.9	17.8	FL 245 5000 ft MSL	↑	↓		Langen ACC
△ MILGI N 51 11 49 E 006 07 30							

Z400							
△ ARGAD N 54 30 22 E 013 29 46							
	005.2	24.8	FL 245 4000 ft MSL		↓	CDR1 FL 100 – FL 220 H24 See ENR 5.1 MVPA North-East. To avoid Military Exercise Areas expect TEMPO vectoring by ATC. Route extension: MAX 7 NM. CDR1 FL 220 – FL 245 H24 See ENR 5.1 MVPA North-East - reroutings due to military activities on this segment only after publication of NOTAM.	Bremen ACC
△ BAKLI (FIR BDRY) N 54 55 00 E 013 33 39							

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
Z403							
△ GIBSA N 49 40 06 E 009 40 03							
	284.2 104.1	6.1	FL 245 5000 ft MSL	↑	↓		Langen ACC
△ RATIM N 49 41 35 E 009 31 00							
	284.3 104.1	8.5	FL 245 5000 ft MSL	↑	↓		Langen ACC
△ SUPIX N 49 43 40 E 009 18 19							
	283.9 103.9	4.7	FL 245 5000 ft MSL	↑	↓		Langen ACC
△ AKONI N 49 44 48 E 009 11 15							
	282.7 102.7	3.8	FL 245 5000 ft MSL (FL130)	↑	↓		Langen ACC
△ AMTIX N 49 45 44 E 009 05 30							
	272.1 091.9	9.5	FL 245 5000 ft MSL (FL130)	↑	↓		Langen ACC
△ OLKAS N 49 45 58 E 008 50 56							
	254.4 074.3	6.4	FL 245 5000 ft MSL (FL130)	↑	↓		Langen ACC
△ UBENO N 49 44 14 E 008 41 24							
Z408							
For details see also AIP Austria (NANIT - TIRUL) and AIP Switzerland (TIRUL - RONAG).							
△ UMVEG N 47 12 42 E 011 53 48							
	257.9	5.7	FL 305 10500 ft MSL		↓		München ACC
△ MIMVI N 47 11 30 E 011 45 37							
	257.8	28.7	FL 305 13500 ft MSL		↓		München ACC
△ NIGEB N 47 05 21 E 011 04 37							
	265.3	22.6	FL 305 15500 ft MSL		↓		München ACC
△ TIRUL N 47 03 26 E 010 31 43							
	213.7	20.0	FL 245 15500 ft MSL	↓			München ACC Zürich ACC
△ RONAG N 46 46 46 E 010 15 32							
Z441							
△ BADOS N 54 22 12 E 009 08 07							
	314.8 134.4	21.2	FL 660 4000 ft MSL	↑	↓	CDR1 FL 80 – FL 245 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 80 – FL 245 other times ALTN route: Z998	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
△ OLDIP N 54 37 03 E 008 42 14							
	324.7	17.5	FL 660 4000 ft MSL		↓	CDR1 FL 80 – FL 245 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 80 – FL 245 other times ALTN route: Z998	Bremen ACC Maastricht UAC
△ WESTERLAND/SYLT NDB (SLT) N 54 51 25 E 008 24 36							
	114.9	20.5	FL 660 4000 ft MSL		↑	Between TUSKA and SLT between 5500 ft MSL and FL245 this ATS route crosses a danger area over the North Sea. IFR traffic on this route is given priority over and separation from military traffic within this danger area. CDR1 FL 90 – FL 245 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 90 – FL 245 other times ALTN route: Z998	Bremen ACC Maastricht UAC
△ TUSKA (FIR BDRY) N 55 00 00 E 007 52 34							

Z493							
△ BILRA (FIR BDRY) N 54 46 29 E 014 20 20							
	145.0	10.4	FL 660 FL 155		↑	CDR1 FL 170 – FL 660 H24 In case ED-D47C is active expect tactical re-routing via Z491.	Malmö ACC
△ BIKRU (FIR BDRY) N 54 55 00 E 014 10 00							

Z505							
△ GISEM N 50 38 08 E 008 49 10							
	319.7	30.1	FL 245 6000 ft MSL		↓		Langen ACC
△ ARPEG N 51 01 00 E 008 18 23							

Z529							
△ EVDAL N 52 05 54 E 007 37 23							
	021.8	16.1	FL 245 4000 ft MSL		↓	CDR1 FL 90 – FL 245 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 90 – FL 245 other times	Bremen ACC Langen 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
△ RORUS N 52 20 50 E 007 47 09							
	005.4 185.5	53.1	FL 245 4000 ft MSL	↓	↑	CDR1 FL 80 – FL 245 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 80 – FL 245 other times	Bremen ACC
△ RALEL N 52 13 38 E 007 55 26							
	005.5 185.5	11.5	FL 245 3500 ft MSL	↓	↑	CDR1 FL 80 – FL 245 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 80 – FL 245 other times	Bremen ACC
△ NUKDA N 53 25 03 E 007 57 16							
	017.4 197.7	52.2	FL 245 3000 ft MSL	↓	↑	Between NUKDA and OLDIP between 5500 AMSL and FL245 this ATS Route crosses a danger area over the North Sea. IFR traffic on this route is given priority over and separation from military traffic within this danger area. CDR1 H24 CDR1 FL 80 – FL 245 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 80 – FL 245 other times	Bremen ACC
△ GOBK1 N 54 14 44 E 008 23 49							
	025.6 205.8	24.8	FL 245 3000 ft MSL	↓	↑	Between NUKDA and OLDIP between 5500 AMSL and FL245 this ATS Route crosses a danger area over the North Sea. IFR traffic on this route is given priority over and separation from military traffic within this danger area. CDR1 FL 80 – FL 245 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 80 – FL 245 other times	Bremen ACC
△ OLDIP N 54 37 03 E 008 42 14							
	009.2 189.2	17.2	FL 245 3000 ft MSL	↓	↑	CDR1 FL 80 – FL 245 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 80 – FL 245 other times	Bremen 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
△ ATTUS (FIR BDRY) N 54 53 59 E 008 46 58						

Z555						
△ BITBU N 49 58 59 E 006 33 42						
	037.6	18.1	FL 245 5000 ft MSL	↓		Langen ACC
△ ROPUV N 50 13 19 E 006 50 54						

Z601						
△ BODAN (FIR BDRY) N 47 35 15 E 009 27 05						
	075.1	37.7	FL 125 7000 ft MSL	↓		München ACC Zürich ACC
△ KEMPTEN DVOR/DME (KPT) N 47 44 45 E 010 20 59						

Z612						
△ GESTO N 53 10 30 E 010 05 01						
	283.9 103.5	18.6	FL 245 4000 ft MSL	↑	↓	Bremen ACC
△ RORAN N 53 14 53 E 009 35 00						
	283.4 102.9	26.2	FL 245 4000 ft MSL	↑	↓	Bremen ACC
△ WESER NDB (WSN) N 53 20 50 E 008 52 29						

Z650	For continuation see AIP Czech Republic.					
△ SULUS N 50 04 31 E 010 43 44						
	108.0	20.3	FL 245 5000 ft MSL	↓		München ACC
△ TONSU N 49 58 11 E 011 13 33						
	108.1	7.4	FL 245 5000 ft MSL	↓		München ACC
△ ERETO N 49 55 52 E 011 24 30						
	105.9	10.8	FL 245 5000 ft MSL	↓		München ACC
△ NOGRA N 49 52 54 E 011 40 35						
	097.6	12.4	FL 245 7000 ft MSL	↓		München ACC
△ NIKUS N 49 51 13 E 011 59 33						
	097.9	10.2	FL 245 7000 ft MSL	↓		München ACC
△ TIPAM N 49 49 48 E 012 15 09						
	098.1	8.2	FL 245 7000 ft MSL	↓		München ACC
△ VEMUT N 49 48 39 E 012 27 40						

Z656						
△ RUDUS N 50 02 51 E 008 04 42						
	255.1	13.8	FL 245 FL 135		↓	Langen ACC
△ OLGIL N 49 59 16 E 007 44 02						
	287.8	12.5	FL 245 FL 135		↓	Langen ACC
△ SIPVU N 50 03 04 E 007 25 31						
	287.4	5.4	FL 245 5000 ft MSL		↓	Langen 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
△ IDOVI N 50 04 41 E 007 17 29							
	225.0	7.4	FL 245 5000 ft MSL		↓		Langen ACC
△ ABDAP N 49 59 29 E 007 09 25							
	211.6	5.4	FL 245 5000 ft MSL		↓	CDR1 FL 100 H24	Langen ACC
△ TIGPI N 49 54 55 E 007 05 04							
	201.9	13.5	FL 105 6000 ft MSL		↓	CDR1 FL 100 H24	Langen ACC
△ IDARO N 49 42 25 E 006 57 19							
Z658							
△ RANIN N 50 55 57 E 009 16 38							
	246.7	16.2	FL 215 6000 ft MSL		↓		Langen ACC
△ OHMAR N 50 49 30 E 008 53 06							
	246.9 066.6	19.8	FL 215 5000 ft MSL	↑	↓		Langen ACC
△ BIGSU N 50 41 42 E 008 24 29							
	235.2 054.8	27.2	FL 135 6000 ft MSL	↑	↓		Langen ACC
△ ROLIS N 50 26 06 E 007 49 31							
	233.3 052.9	23.9	FL 135 5000 ft MSL	↑	↓		Langen ACC
△ EMGOD N 50 11 47 E 007 19 44							
	191.5 011.5	7.3	FL 135 5000 ft MSL	↑	↓		Langen ACC
△ IDOVI N 50 04 41 E 007 17 29							
Z671							
△ ROLIS N 50 26 06 E 007 49 31							
	067.3	21.8	FL 135 5000 ft MSL	↓			Langen ACC
△ BEDSI N 50 34 26 E 008 21 03							
	090.3	16.6	FL 135 5000 ft MSL	↓			Langen ACC
△ TOBAK N 50 34 18 E 008 47 09							
Z714							
△ OLASO N 48 12 30 E 010 13 55							
	272.7	12.9	FL 660 5000 ft MSL		↓	CDR1 FL 100 – 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 100 – FL 660 other times	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
△ LUPOL N 48 13 05 E 009 54 39							
	274.0 093.8	9.6	FL 660 6000 ft MSL	↑	↓	CDR1 FL 100 – 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 100 – FL 660 other times	Karlsruhe UAC München ACC
△ PELOG N 48 13 41 E 009 40 30							
	273.3	19.3	FL 95 6000 ft MSL		↓		Langen ACC
△ LEBSO N 48 14 44 E 009 11 45							
	290.5 110.1	23.5	FL 225 6500 ft MSL	↑	↓		Langen ACC
△ SULZ DVOR (SUL) N 48 22 54 E 008 38 41							
	298.8 118.7	10.5	FL 225 6500 ft MSL	↑	↓		Langen ACC
△ TUBLO N 48 27 57 E 008 24 53							

Z715							
△ RIKLU N 50 55 52 E 013 48 40							
	059.6	4.5	FL 245 5000 ft MSL	↑			München ACC
△ PIKIB N 50 53 36 E 013 42 33							
	237.7 057.2	29.5	FL 245 5000 ft MSL	↑	↓		München ACC
△ ABKIS N 50 37 47 E 013 03 26							
	242.8 062.0	4.1	FL 245 5000 ft MSL	↑	↓		München ACC
△ NOKSI N 50 35 54 E 012 57 41							
	242.8 062.0	32.9	FL 245 5000 ft MSL	↑	↓		München ACC
△ PEROX N 50 20 41 E 012 11 58							
	236.2 056.0	8.5	FL 245 5000 ft MSL	↑	↓		München ACC
△ NURGO N 50 15 52 E 012 00 59							
	236.2 056.0	2.0	FL 245 5000 ft MSL	↑	↓		München ACC
△ URONA N 50 14 52 E 011 58 26							
	238.5 058.4	6.7	FL 245 5000 ft MSL	↑	↓		München ACC
△ UNAVI N 50 11 17 E 011 49 20							
	227.0 046.8	10.1	FL 245 5000 ft MSL	↑	↓		München ACC
△ KULOK N 50 04 22 E 011 37 50							
	225.4 045.2	12.1	FL 245 5000 ft MSL	↑	↓		München ACC
△ ERETO N 49 55 52 E 011 24 30							
	216.3 036.1	12.1	FL 245 5000 ft MSL	↑	↓		München ACC
△ ANELA N 49 46 08 E 011 13 29							

Z717							
△ BODLA (FIR BDRY) N 53 16 33 E 014 24 36							
	252.2 071.8	18.9	FL 245 4000 ft MSL	↑	↓		Bremen 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
△ RAKIT N 53 10 43 E 013 54 40							
	251.8 071.7	9.0	FL 245 4000 ft MSL	↑	↓		Bremen ACC
△ BEKBA N 53 07 55 E 013 40 31							
	251.7 071.6	2.3	FL 245 4000 ft MSL	↑	↓		Bremen ACC
△ GOLBO N 53 07 12 E 013 36 57							
	251.8 071.2	17.0	FL 245 4000 ft MSL	↑	↓		Bremen ACC
△ GUDOP N 53 01 47 E 013 10 15							
	251.1 070.9	13.1	FL 245 4000 ft MSL	↑	↓		Bremen ACC
△ PODUS N 52 57 33 E 012 49 50							
	273.3 092.9	17.8	FL 245 4000 ft MSL	↑	↓		Bremen ACC
△ VIBIS N 52 58 31 E 012 20 19							
	259.3 079.1	7.6	FL 245 4000 ft MSL	↑	↓		Bremen ACC
△ INDOK N 52 57 05 E 012 07 56							
Between INDOK and HLZ not available							
△ HEHLINGEN DVOR/DME (HLZ) N 52 21 48 E 010 47 43							
	252.5 071.8	34.3	FL 245 4500 ft MSL	↑	↓		Bremen ACC
△ SOVIP N 52 11 19 E 009 54 33							
	252.2 071.6	26.2	FL 245 4500 ft MSL	↑	↓		Bremen ACC
△ PIROT N 52 03 12 E 009 14 13							
	243.9 062.7	37.9	FL 245 FL 195	↑	↓	CDR1 FL 200 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 200 other times	Bremen ACC Langen ACC
△ EXOBA N 51 46 02 E 008 19 37							
	242.7 061.9	44.2	FL 245 FL 115	↑	↓	CDR1 FL 120 – FL 200 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 120 – FL 200 other times	Langen ACC
△ ABAMI N 51 25 30 E 007 16 50							
	236.8	26.6	FL 245 FL 115		↓		Langen ACC
△ RASAS N 51 10 50 E 006 41 25							
	246.9	24.7	FL 245 FL 195		↓		Langen ACC
△ MODRU N 51 01 03 E 006 05 24							
	240.9	4.4	FL 245 FL 95		↓		Langen ACC
△ GOBNO (FIR BDRY) N 50 58 56 E 005 59 23							

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
Z718							
△ SUVOX N 51 58 09 E 007 06 29							
	071.9 252.8	45.7	FL 245 4000 ft MSL	↓	↑		Bremen ACC Langen ACC
△ OSNABRÜCK DVOR (OSN) N 52 12 00 E 008 17 08							

Z719							
△ TESGA N 50 26 42 E 008 37 08							
	138.5	13.4	FL 660 FL 185	↓			Karlsruhe UAC Langen ACC
△ METRO VOR (MTR) N 50 16 35 E 008 50 55							
	108.7	1.9	FL 660 FL 185	↓			Karlsruhe UAC Langen ACC
△ BIBTA N 50 16 01 E 008 53 49							
	108.8 289.1	15.9	FL 660 FL 175	↓	↑		Karlsruhe UAC Langen ACC
△ ETOLU N 50 10 52 E 009 17 19							
	109.1 289.4	20.2	FL 245 FL 175	↓	↑		Langen ACC
△ OSBIT N 50 04 12 E 009 46 59							

Z720							
△ OSBIT N 50 04 12 E 009 46 59							
	038.6 218.9	23.0	FL 245 5500 ft MSL (FL130)	↑	↓		Langen ACC
△ TUSOS N 50 22 08 E 010 09 22							
	038.9 219.0	14.1	FL 175 5500 ft MSL	↑	↓		Langen ACC
△ ADIBA N 50 33 06 E 010 23 16							

Z722							
△ GORKO N 50 13 28 E 010 29 02							
	349.4	20.0	FL 165 5500 ft MSL		↓		Langen ACC München ACC
△ ADIBA N 50 33 06 E 010 23 16							

Z723							
△ BOMBI N 50 03 24 E 008 48 01							
	065.9	11.9	FL 660 FL 125 (FL140)	↓			Karlsruhe UAC Langen ACC
△ OSDUR N 50 08 13 E 009 04 50							
	071.6	8.5	FL 660 FL 125 (FL140)	↓			Karlsruhe UAC Langen ACC
△ ETOLU N 50 10 52 E 009 17 19							
	088.8	8.4	FL 660 FL 125 (FL140)	↓			Karlsruhe UAC Langen ACC
△ KONAP N 50 11 02 E 009 30 24							
	088.9	20.2	FL 660 FL 125 (FL140)	↓			Karlsruhe UAC Langen ACC
△ RITUP N 50 11 21 E 010 01 48							
	130.1	10.8	FL 245 5500 ft MSL	↓			Langen 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
△ KOMIB N 50 04 24 E 010 14 34						

Z724						
△ ETASA N 49 11 27 E 009 07 42						
	340.4	16.7	FL 245 FL 215		↓	Langen ACC
△ KETEG N 49 27 09 E 008 59 09						

Z729						
△ TOMPI N 49 23 31 E 007 03 27						
	124.5 304.8	17.2	FL 235 5000 ft MSL	↓	↑	CDR1 FL 100 H24 CDR1 FL 110 – FL 245 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 1700 (1600) – Mon 0700 (0600) legal holidays Outside these times not available. Langen ACC
△ ZWEIBRÜCKEN DVOR/DME (ZWN) N 49 13 45 E 007 25 04						
	103.4 284.2	13.8	FL 235 5000 ft MSL	↓	↑	CDR1 FL 100 H24 CDR1 FL 110 – FL 245 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 1700 (1600) – Mon 0700 (0600) legal holidays Outside these times not available. Langen ACC
△ PIREK N 49 10 22 E 007 45 30						
	103.4 284.2	21.4	FL 235 5000 ft MSL	↓	↑	CDR1 FL 100 H24 CDR1 FL 110 – FL 245 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 1700 (1600) – Mon 0700 (0600) legal holidays Outside these times not available. Langen ACC
△ GERKU N 49 05 23 E 008 17 16						
	103.4 284.2	6.5	FL 235 5000 ft MSL	↓	↑	CDR1 FL 100 H24 CDR1 FL 110 – FL 245 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 1700 (1600) – Mon 0700 (0600) legal holidays Outside these times not available. Langen ACC
△ BADLI N 49 03 49 E 008 26 51						
	128.1 308.2	6.9	FL 235 5000 ft MSL	↓	↑	Langen ACC
△ KARLSRUHE DVOR/DME (KRH) N 48 59 35 E 008 35 03						
	098.9 279.1	13.3	FL 235 5000 ft MSL	↓	↑	Langen 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
△ ABGAN N 48 57 29 E 008 55 02							
	099.1 279.4	16.9	FL 235 5000 ft MSL	↓	↑		Langen ACC
△ LUBURG VOR/DME (LBU) N 48 54 47 E 009 20 25							

Z732							
△ MISGO N 51 24 17 E 006 52 33							
	128.4	13.2	FL 660 FL 255	↓			Maastricht UAC
△ DIXAT N 51 16 04 E 007 09 02							

Z738							
△ RUDUS N 50 02 51 E 008 04 42							
	124.9	19.0	FL 245 5500 ft MSL (FL140)	↓			Langen ACC
△ NOKDI N 49 51 59 E 008 28 45							
	133.3 313.5	11.3	FL 245 5500 ft MSL (FL120)	↓	↑		Langen ACC
△ UBENO N 49 44 14 E 008 41 24							
	325.2	10.9	FL 245 5500 ft MSL (FL120)		↑		Langen ACC
△ TUDGA N 49 35 16 E 008 51 02							

Z739							
△ NAPRO (FIR BDRY) N 51 51 21 E 006 03 32							
	131.3	8.0	FL 245 FL 205	↓			Langen ACC
△ DEPAD N 51 46 05 E 006 13 12							
	131.4	11.7	FL 245 FL 205	↓			Langen ACC
△ AMOSU N 51 38 20 E 006 27 18							
	131.6	21.1	FL 245 FL 205	↓			Langen ACC
△ MISGO N 51 24 17 E 006 52 33							
	115.4	33.4	FL 245 FL 205	↓			Langen ACC
△ DEGOM N 51 09 51 E 007 40 26							

Z744							
△ UPALA N 49 12 52 E 011 13 17							
	293.0	19.9	FL 660 FL 245		↓	CDR1 FL 245 – FL 470 H24 ALTN route: by ATC	Karlsruhe UAC München ACC
△ PETIX N 49 20 28 E 010 45 17							
	305.9	38.8	FL 660 FL 245		↓	CDR1 FL 245 – FL 470 H24 ALTN route: by ATC	Karlsruhe UAC
△ WÜRZBURG VOR (WUR) N 49 43 03 E 009 56 49							
	294.7	15.3	FL 660 FL 215		↓	CDR1 FL 245 – FL 470 H24 ALTN route: by ATC	Karlsruhe UAC Langen 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
△ LEPSA N 49 49 22 E 009 35 26						

Z818						
△ MAKOT (FIR BDRY) N 49 10 20 E 007 02 22						
	049.4 229.5	4.2	FL 245 3000 ft MSL (FL60)	↑	↓	CDR1 FL 100 – FL 245 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 1700 (1600) – Mon 0700 (0600) legal holidays Outside these times not available.
△ SAARBRÜCKEN NDB (SBN) N 49 13 08 E 007 07 06						Langen ACC
	086.4 266.6	11.8	FL 105 5500 ft MSL	↓	↑	CDR1 FL 100 H24
△ ZWEIBRÜCKEN DVOR/DME (ZWN) N 49 13 45 E 007 25 04						Langen ACC
	082.4 262.7	16.7	FL 105 5500 ft MSL	↓	↑	CDR1 FL 100 H24
△ LADAT N 49 15 55 E 007 50 22						Langen ACC
	082.6 262.9	13.9	FL 105 5500 ft MSL	↓	↑	CDR1 FL 100 H24
△ MANEM N 49 17 40 E 008 11 30						Langen ACC
	083.0 263.4	17.6	FL 105 5500 ft MSL	↓	↑	CDR1 FL 100 H24
△ RINEX N 49 19 45 E 008 38 08						Langen ACC
	122.9 303.0	7.9	FL 245 5000 ft MSL	↓	↑	
△ UBEGA N 49 15 26 E 008 48 19						Langen ACC
	123.2 303.3	6.8	FL 125 5000 ft MSL	↓	↑	
△ TAGIK N 49 11 43 E 008 56 59						Langen ACC
	092.1 272.2	7.0	FL 125 5000 ft MSL	↓	↑	
△ ETASA N 49 11 27 E 009 07 42						Langen ACC
	092.3 272.9	31.7	FL 125 5000 ft MSL	↓	↑	
△ GEBNO N 49 10 00 E 009 55 56						Langen ACC
	096.7 276.9	12.1	FL 245 5000 ft MSL	↓	↑	
△ DINKELSBÜHL DVORTAC (DKB) N 49 08 34 E 010 14 18						Langen ACC München ACC
	178.4 358.4	11.5	FL 245 5000 ft MSL	↓	↑	
△ ELVAG N 48 57 06 E 010 14 47						

Z841						
△ SONEB (FIR BDRY) N 52 01 25 E 006 45 51						
	121.3	19.4	FL 245 4000 ft MSL	↓		Langen ACC
△ MEVEL N 51 51 17 E 007 12 34						Langen ACC
	121.3	16.6	FL 245 4000 ft MSL	↓		
△ DOMEQ N 51 42 34 E 007 35 14						Langen ACC
	160.4	20.5	FL 245 5500 ft MSL	↓		

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
△ TUVTI N 51 23 14 E 007 46 13							
	160.4	13.8	FL 660 5500 ft MSL	↓			Langen ACC
△ GERMINGHAUSEN DVOR/DME (GMH) N 51 10 14 E 007 53 31							
	142.9	3.9	FL 245 5500 ft MSL	↓			Langen ACC
△ GETNI N 51 07 06 E 007 57 17							
	142.9	20.5	FL 245 5500 ft MSL	↓			Langen ACC
△ SIGEN N 50 50 46 E 008 16 46							
	151.6	10.3	FL 245 5500 ft MSL	↓			Langen ACC
△ BIGSU N 50 41 42 E 008 24 29							

Z843							
△ MEVEL N 51 51 17 E 007 12 34							
	317.3	21.6	FL 125 4000 ft MSL		↓		Langen ACC
△ RELBI (FIR BDRY) N 52 07 06 E 006 48 49							

Z850							
△ LOHRE N 50 04 01 E 009 29 11							
	321.0	21.4	FL 660 FL 245		↓		Karlsruhe UAC
△ TEKTU N 50 20 34 E 009 08 11							
	321.0	14.3	FL 660 FL 245		↓		Karlsruhe UAC
△ SOGMI N 50 31 39 E 008 53 57							
	322.6	37.0	FL 660 FL 235		↓		Karlsruhe UAC Langen ACC
△ ARPEG N 51 01 00 E 008 18 23							
	330.8	5.5	FL 660 5500 ft MSL		↓		Karlsruhe UAC Langen ACC
△ BADGO N 51 05 46 E 008 14 08							
	330.8	21.6	FL 660 5500 ft MSL		↓		Langen ACC Maastricht UAC
△ ABILU N 51 24 36 E 007 57 15							
	330.8	5.0	FL 660 5500 ft MSL		↓		Langen ACC Maastricht UAC
△ ADEMI N 51 28 58 E 007 53 19							
	343.4	23.5	FL 660 3500 ft MSL		↓		Langen ACC Maastricht UAC
△ HAMM DVOR/DME (HMM) N 51 51 25 E 007 42 30							
	308.8	19.7	FL 660 5000 ft MSL		↓		Langen ACC Maastricht UAC
△ EKTOT N 52 03 43 E 007 17 34							
	230.9	8.8	FL 205 5000 ft MSL		↓		Langen ACC
△ SUVOX N 51 58 09 E 007 06 29							
	232.2	26.5	FL 205 5000 ft MSL		↓		Langen ACC
△ SOBTU N 51 41 53 E 006 32 52							

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
Z851							
△ MISRI N 51 56 36 E 007 28 53							
	074.5	14.8	FL 660 4500 ft MSL	↓			Langen ACC Maastricht UAC
△ ELTUK N 52 00 31 E 007 52 02							
	074.5	15.8	FL 660 4500 ft MSL	↓			Langen ACC Maastricht UAC
△ OSDIK N 52 04 36 E 008 16 47							
	074.5	37.8	FL 660 FL 245	↓			Maastricht UAC
△ ROBEG N 52 14 01 E 009 16 11							

Z858							
△ JUNKA N 51 39 16 E 011 12 37							
	061.3	29.6	FL 235 6000 ft MSL	↑			Bremen ACC München ACC
△ BERDI N 51 25 13 E 010 31 00							
	087.7	29.8	FL 235 6000 ft MSL	↑			Bremen ACC
△ MIPDU N 51 24 11 E 009 43 24							
	087.2	24.6	FL 235 6000 ft MSL	↑			Bremen ACC
△ ABSUL N 51 23 06 E 009 04 11							
	097.2	6.3	FL 235 6000 ft MSL	↑			Bremen ACC
△ ROSUX N 51 23 54 E 008 54 11							
	097.1	5.6	FL 235 6000 ft MSL	↑			Langen ACC
△ ESADU N 51 24 36 E 008 45 22							
	271.2 090.3	11.8	FL 235 5500 ft MSL	↑	↓		Langen ACC
△ NUDGO N 51 24 49 E 008 26 27							
	271.2 090.3	9.8	FL 135 5000 ft MSL	↑	↓		Langen ACC
△ ARNOP N 51 24 58 E 008 10 44							
	271.2 090.3	4.2	FL 135 5000 ft MSL	↑	↓		Langen ACC
△ MABAB N 51 25 01 E 008 04 04							
	271.2 090.3	9.7	FL 135 5000 ft MSL	↑	↓		Langen ACC
△ BARAG N 51 25 07 E 007 48 31							
	270.5	10.2	FL 135 5000 ft MSL		↓		Langen ACC
△ DOMUX N 51 25 11 E 007 32 11							

Z870							
△ EKROV N 53 08 34 E 009 25 08							
	265.7	24.1	FL 660 4000 ft MSL		↑		Bremen ACC Maastricht UAC
△ GESTO N 53 10 30 E 010 05 01							
	098.5 279.6	28.9	FL 660 4000 ft MSL	↓	↑		Bremen ACC Maastricht UAC
△ RIDNI N 53 06 05 E 010 52 22							
	098.5 279.6	12.6	FL 660 4000 ft MSL	↓	↑		Bremen ACC Karlsruhe UAC 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
△ NEBUN N 53 04 04 E 011 13 01							
	099.3 279.4	5.8	FL 660 4000 ft MSL	↓	↑		Bremen ACC Karlsruhe UAC
△ GURLO N 53 03 07 E 011 22 25							
	099.2 279.4	6.3	FL 660 4000 ft MSL	↓	↑		Bremen ACC Karlsruhe UAC
△ BRÜNKENDORF DVOR/DME (BKD) N 53 02 04 E 011 32 46							

Z907							
△ KOGES (FIR BDRY) N 50 34 12 E 006 12 02							
	009.1	9.3	FL 245 5000 ft MSL (FL190)	↓			Langen ACC
△ KENUM N 50 43 21 E 006 14 22							
	042.6	24.6	FL 245 5000 ft MSL (FL190)	↓			Langen ACC
△ ELDAR N 51 01 23 E 006 40 46							
	042.6	33.1	FL 245 5000 ft MSL (FL190)	↓			Langen ACC
△ ABAMI N 51 25 30 E 007 16 50							
	031.5 211.8	30.5	FL 245 5000 ft MSL (FL190)	↓	↑		Langen ACC
△ HAMM DVOR/DME (HMM) N 51 51 25 E 007 42 30							

Z990							
△ HEHLINGEN DVOR/DME (HLZ) N 52 21 48 E 010 47 43							
	003.6 183.7	28.2	FL 245 5000 ft MSL	↑	↓	Between HLZ and DIRBO expect temporary vectoring by ATC below FL150 to avoid ED- R 30. Route extension: MAX 2 NM	Bremen ACC
△ DIRBO N 52 49 56 E 010 50 39							
	003.7 183.7	25.1	FL 245 5000 ft MSL	↑	↓		Bremen ACC
△ IRKIS N 53 14 56 E 010 53 19							
	004.1 184.1	11.6	FL 245 5000 ft MSL	↑	↓		Bremen ACC
△ ABMAL N 53 26 31 E 010 54 43							
	003.3 183.3	16.7	FL 245 5000 ft MSL	↑	↓		Bremen ACC
△ RAMAR N 53 42 39 E 010 56 20							
	003.7 183.8	24.3	FL 245 5000 ft MSL	↑	↓		Bremen ACC
△ TOSPA N 54 06 50 E 010 59 01							
	183.8	11.5	FL 245 5000 ft MSL	↑			Bremen ACC
△ MICHAELSDORF DVOR (MIC) N 54 18 20 E 011 00 19							

Z997							
△ RATMO N 52 42 19 E 012 25 47							
	103.0	81.4	FL 660 FL 285	↓			Karlsruhe UAC
△ SLUBICE VOR/DME (SUI) N 52 22 47 E 014 35 08							

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
Z998							
△ OLDIP N 54 37 03 E 008 42 14							
	098.9 279.9	41.1	FL 245 4000 ft MSL	↓	↑	CDR1 FL 80 – FL 100 H24 CDR1 FL 110 – FL 245 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 110 – FL 245 other times If TRA 201 is used, flights may expect early descent or to stay below FL105 between OLDIP and EKERN.	Bremen ACC
△ EKERN N 54 30 21 E 009 51 50							
	166.2 346.2	6.9	FL 245 4000 ft MSL	↓	↑		Bremen ACC
△ UMVUP N 54 23 40 E 009 54 39							
	135.3 315.9	38.2	FL 245 4000 ft MSL	↓	↑		Bremen ACC
△ LÜBECK DVOR (LUB) N 53 56 27 E 010 40 04							
	145.0 325.2	16.8	FL 245 4000 ft MSL	↓	↑		Bremen ACC
△ RAMAR N 53 42 39 E 010 56 20							
	148.7	31.2	FL 245 4000 ft MSL	↓			Bremen ACC
△ NUSGU N 53 16 00 E 011 23 19							
	137.3	9.6	FL 660 4000 ft MSL	↓			Bremen ACC Karlsruhe UAC
△ LASLU N 53 08 55 E 011 34 11							
	137.4	12.9	FL 660 4000 ft MSL	↓			Bremen ACC Karlsruhe UAC
△ PITEN N 52 59 24 E 011 48 41							
	127.0	11.7	FL 660 4000 ft MSL	↓		CDR1 FL 350 – FL 450 H24 See ENR 5.1 MVPA North-East - reroutings due to military activities on this segment after publication of NOTAM.	Bremen ACC Karlsruhe UAC
△ BIRMO N 52 52 20 E 012 04 07							
	127.2	16.5	FL 660 4000 ft MSL	↓		CDR1 FL 350 – FL 450 H24 See ENR 5.1 MVPA North-East - reroutings due to military activities on this segment after publication of NOTAM.	Bremen ACC Karlsruhe UAC
△ RATMO N 52 42 19 E 012 25 47							
	148.9	31.9	FL 660 4000 ft MSL	↓			Bremen ACC Karlsruhe UAC
△ NISGA N 52 14 58 E 012 52 34							
	149.1	29.3	FL 660 4000 ft MSL	↓			Bremen ACC Karlsruhe UAC
△ GODUR N 51 49 50 E 013 16 47							
	149.5	25.7	FL 660 4000 ft MSL	↓			Bremen ACC Karlsruhe UAC
△ OSKAN N 51 27 39 E 013 37 40							

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
Z999							
△ XEBIX N 47 24 00 E 010 28 48							
	143.4	11.9	FL 660 11500 ft MSL	↑			München ACC
△ BEMKI N 47 33 34 E 010 18 20							
	009.1 189.1	11.3	FL 660 9000 ft MSL	↑	↓		München ACC
△ KEMPTEN DVOR/DME (KPT) N 47 44 45 E 010 20 59							