

ENR 3.3 OTHER ROUTES**1. Low Flight Network (LFN) ATS Routes**

The operation on this network is subject to specific state authorization and access procedures by the national provider (see [ENR 1.1 - 4.8](#)).

The following tables describe the Low Flight Network for rotary wing aircraft that comply with the required navigational performance of **RNP 0.3**.

For speed restrictions refer to [ENR 6.4 - 1](#).

This network consists of low-level routes (KYxyz) and associated routes (KQxyz) to and from various landing sites and regions. Table of cruising levels ([ENR 1.7 - 5.3](#)) is not applicable to LFN.

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3. Low Flight Network (LFN) ATS Routes

Route Designator		Route Remarks (Optional)							
Name of significant points		Significant point geographical coordinates						Significant Point Remarks	
Route Segment RCP/RSP specification		Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}	
		↓ — ↑				↓	↑		
KQ811									
△	LS103	46 43 11.2 N 006 57 39.1 E							
		274°	9.2	FL 195 <u>5500 ft</u> <i>MEA = 6000 ft</i>				ACC Geneva {C, E} TWR/APP Payerne {D}	
△	ETEKI	46 44 10.8 N 006 44 21.4 E							

Route Designator		Route Remarks (Optional)								
Name of significant points		Significant point geographical coordinates						Significant Point Remarks		
Route Segment RCP/RSP specification		Track MAG	Geodesic Dist (COP)	Upper and Lower limits	Lateral limits MOCA	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}		
		↓ — ↑		MEA		↓	↑			
KQ821										
△	ME103	47 07 27.9 N 008 07 05.1 E								
		064°	15.2	FL 195 4500 ft MEA = 5000 ft	MOCA = 3675 ft			ACC Zurich {C, E} TWR/APP Emmen {D}		
△	RONIX	47 13 34.5 N 008 27 25.2 E								

Route Designator		Route Remarks (Optional)							
Name of significant points		Significant point geographical coordinates						Significant Point Remarks	
Route Segment RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}		
	↓ — ↑				↓	↑			
KQ831									
△	DEGES	47 24 45 N 009 12 07 E							
		234° ↺	9.9	FL 195 5500 ft MEA = 6000 ft			ACC Zurich {C, E} TWR/APP Dubendorf, {D}		
△	MD503	47 19 16.1 N 009 00 03.8 E							

Route Designator		Route Remarks (Optional)								
Name of significant points		Significant point geographical coordinates						Significant Point Remarks		
Route Segment RCP/RSP specification		Track MAG	Geodesic Dist (COP)	Upper and Lower limits	Lateral limits MOCA	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}		
		↓ — ↑		MEA		↓	↑			
KQ832										
△	LS111	47 12 41.6 N 008 57 01.1 E								
		015° ↺	1.9	FL 195 4500 ft MEA = 5000 ft				ACC Zurich {C, E} TWR/APP Dubendorf {D}		
△	MD505	47 14 30.6 N 008 57 49.1 E								

Route Designator		Route Remarks (Optional)						
Name of significant points		Significant point geographical coordinates						Significant Point Remarks
Route Segment RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}	
	↓ — ↑				↓	↑		
KQ833								
△	LS110	47 12 26.8 N 008 47 38.1 E						
		308° ↺	0.9	FL 195 4500 ft MEA = 5000 ft				ACC Zurich {C, E} TWR/APP Dubendorf {D}
△	MD516	47 13 02.2 N 008 46 37.2 E						

Route Designator		Route Remarks (Optional)						
Name of significant points		Significant point geographical coordinates						Significant Point Remarks
Route Segment RCP/RSP specification		Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
		↓ — ↑				↓	↑	
KQ834								
△	VIBAX	47 20 50.0 N 008 52 55.9 E						
		106° ↺	5.1	FL 195 5500 ft MEA = 6000 ft				ACC Zurich {C, E} TWR/APP Dubendorf {D}
△	MD503	47 19 16.1 N 009 00 03.8 E						
		086° ↺	6.1	FL 195 5500 ft MEA = 6000 ft				ACC Zurich {C, E} TWR/APP Dubendorf {D}
△	LS112	47 19 25.5 N 009 09 02.0 E						

Route Designator		Route Remarks (Optional)					
Name of significant points		Significant point geographical coordinates					Significant Point Remarks
Route Segment RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑				↓	↑	
KQ861							
△	LS105	46 55 44.0 N 007 28 44.9 E					
		253°	5.0	FL 195 <u>5500 ft</u> <i>MEA = 6000 ft</i>			ACC Zurich {C, E} TWR/APP Berne {D}
△	LS561	46 54 28.4 N 007 21 41.4 E					
		253°	4.1	FL 195 <u>4500 ft</u> <i>MEA = 5000 ft</i>			ACC Zurich {C, E} TWR/APP Berne {D}
△	ASBER	46 53 25.9 N 007 15 52.8 E					

Route Designator		Route Remarks (Optional)						
Name of significant points		Significant point geographical coordinates						Significant Point Remarks
Route Segment RCP/RSP specification		Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
		↓ ↑				↓	↑	
KQ862								
△	FRIBOURG VOR/ DME (FRI)	46 46 39.3 N 007 13 24.6 E						
		011° 191°	4.0	FL 195 5500 ft MEA = 6000 ft	MOCA = 4141 ft	Even	Even	ACC Geneva {C, E}
△	LS562	46 50 32.0 N 007 14 49.4 E						
		011° 191°	3.0	FL 195 4500 ft MEA = 5000 ft	MOCA = 3908 ft	Odd	Odd	ACC Geneva {C, E} TWR/APP Berne {D}
△	ASBER	46 53 25.9 N 007 15 52.8 E						
		040° 220°	3.7	FL 195 4500 ft MEA = 5000 ft	MOCA = 3908 ft	Odd	Odd	ACC Geneva {C, E} TWR/APP Berne {D}
△	AMRID	46 56 05.4 N 007 19 32.8 E						
		021° 201°	5.1	FL 195 4500 ft MEA = 5000 ft	MOCA = 4075 ft	Odd	Odd	ACC Geneva {C, E} TWR/APP Berne {D}
△	BIRKI	47 00 46.6 N 007 22 34.8 E						
		062° 242°	10.5	FL 195 5500 ft MEA = 6000 ft	MOCA = 4075 ft	Even	Even	ACC Geneva {C, E} TWR/APP Berne {D}
△	MEBOX	47 05 10.4 N 007 36 33.5 E						
		071° 251°	8.9	FL 195 5500 ft MEA = 6000 ft	MOCA = 4387 ft	Even	Even	ACC Geneva {C, E} TWR/APP Berne {D}
△	UMTOP	47 07 38.9 N 007 49 06.2 E						

Route Designator		Route Remarks (Optional)						
Name of significant points		Significant point geographical coordinates						Significant Point Remarks
Route Segment RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}	
	↓ ↑				↓	↑		
KQ864								
△	ASBER	46 53 25.9 N 007 15 52.8 E						
		136° 316°	4.0	FL 195 4500 ft MEA = 5000 ft	MOCA = 3908 ft	Odd	Odd	APP Bern {C, E}
△	LS104	46 50 23.4 N 007 19 42.2 E						
		136° 316°	2.7	FL 195 5500 ft MEA = 6000 ft	MOCA = 4266 ft	Even	Even	APP Bern {C, E}
△	LS164	46 48 22.3 N 007 22 14.2 E						
		111° 291°	1.2	FL 195 5500 ft MEA = 6000 ft	MOCA = 4920 ft	Even	Even	APP Bern {C, E}
△	TUNNO	46 47 53.4 N 007 23 48.8 E						

Route Designator		Route Remarks (Optional)					
Name of significant points		Significant point geographical coordinates					Significant Point Remarks
Route Segment RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits	Lateral limits MOCA	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑		MEA		↓	↑	
KQ868							
△	RAMOK	47 01 20.2 N 007 41 03.0 E					
		039°	8.4	FL 195 5500 ft MEA = 6000 ft			ACC Zurich {C, E} TWR/APP Berne {D}
△	UMTOP	47 07 38.9 N 007 49 06.2 E					

Route Designator		Route Remarks (Optional)						
Name of significant points		Significant point geographical coordinates						Significant Point Remarks
Route Segment RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}	
	↓ ↑				↓	↑		
KY251								
△	Gland NDB (GLA)	46 24 31.3 N 006 14 39.3 E						
		044°	4.7	FL 195 3500 ft MEA = 4000 ft	MOCA = 3159 ft	Even		ACC Geneva APP Geneva {C, E}
△	LS099	46 27 43.5 N 006 19 33.3 E						
		082°	5.1	FL 195 4000 ft MEA = 4000 ft	MOCA = 3655 ft	Even		ACC Geneva APP Geneva {C, E}
△	St-Prex VOR/DME (SPR)	46 28 07.3 N 006 26 53.0 E						
		086° 266°	11.4	FL 195 3500 ft MEA = 4000 ft	MOCA = 2530 ft	Even	Even	ACC Geneva {C, E}
△	LS100	46 28 14.5 N 006 43 22.4 E						
		030° 210°	17.9	FL 195 5500 ft MEA = 6000 ft	MOCA = 5043 ft	Even	Even	ACC Geneva {C, E}
△	LS103	46 43 11.2 N 006 57 39.1 E						
		069° 249°	11.4	FL 195 5500 ft MEA = 6000 ft	MOCA = 5043 ft	Even	Even	ACC Geneva {C, E}
△	FRIBOURG VOR/DME (FRI)	46 46 39.3 N 007 13 24.6 E						
		046° 226°	5.7	FL 195 5500 ft MEA = 6000 ft	MOCA = 4141 ft	Even	Even	ACC Geneva, Zurich {C, E}
△	LS104	46 50 23.4 N 007 19 42.2 E						
		046° 226°	8.2	FL 195 5500 ft MEA = 6000 ft	MOCA = 4336 ft	Even	Even	ACC Geneva, Zurich {C, E} TWR/APP Berne {D}
△	LS105	46 55 44.0 N 007 28 44.9 E						
		046° 227°	18.3	FL 195 5500 ft MEA = 6000 ft	MOCA = 4958 ft	Even	Even	ACC Geneva, Zurich {C, E} TWR/APP Berne {D}
△	UMTOP	47 07 38.9 N 007 49 06.2 E						
		088° 268°	12.3	FL 195 4500 ft MEA = 5000 ft	MOCA = 4485 ft	Odd	Odd	ACC Zurich {C, E}
△	ME103	47 07 27.9 N 008 07 05.1 E						
		079° 259°	10.3	FL 195 4500 ft MEA = 5000 ft	MOCA = 3734 ft	Odd	Odd	ACC Zurich {C, E} TWR/APP Emmen {D}
△	ME104	47 08 53.5 N 008 22 05.9 E						
		067° 247°	6.8	FL 195 4500 ft MEA = 5000 ft	MOCA = 3860 ft	Odd	Odd	ACC Zurich {C, E} TWR/APP Emmen {D}
△	ZC700	47 11 14.6 N 008 31 23.3 E						

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Route Segment RCP/RSP specification		Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
		↓ ↑				↓	↑	
		081° 261°	4.3	FL 195 4500 ft MEA = 5000 ft	MOCA = 4095 ft	Odd	Odd	ACC Zurich {C, E}
△	OSNOG	47 11 42.5 N 008 37 36.1 E						
		081° 261°	6.9	FL 195 4838 ft MEA = 5000 ft	MOCA = 4838 ft	Odd	Odd	ACC Zurich {C, E}
△	LS110	47 12 26.8 N 008 47 38.1 E						
		085° 265°	6.4	FL 195 4838 ft MEA = 5000 ft	MOCA = 4838 ft	Odd	Odd	ACC Zurich {C, E}
△	LS111	47 12 41.6 N 008 57 01.1 E						
		047° 228°	10.6	FL 195 5500 ft MEA = 6000 ft	MOCA = 4973 ft	Even	Even	ACC Zurich {C, E}
△	LS112	47 19 25.5 N 009 09 02.0 E						
		018° 198°	5.7	FL 195 5500 ft MEA = 6000 ft	MOCA = 4973 ft	Even	Even	ACC Zurich {C, E}
△	DEGES	47 24 45.0 N 009 12 07.0 E						
		040° 220°	8.0	FL 195 4500 ft MEA = 5000 ft	MOCA = 4134 ft	Odd	Odd	ACC Zurich {C, E} TWR/APP St. Gallen Altenrhein {D}
△	SITOR	47 30 36.7 N 009 20 10.5 E						

Route Designator		Route Remarks (Optional)						
Name of significant points		Significant point geographical coordinates					Significant Point Remarks	
Route Segment RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}	
	↓ ↑				↓	↑		
KY252								
△	ME104	47 08 53.5 N 008 22 05.9 E						
		123° 303°	3.1	FL 195 5500 ft MEA = 6000 ft	MOCA = 4000 ft	Even	Even	ACC Zurich {C, E} TWR/APP Emmen {D}
△	LS702	47 07 06.3 N 008 25 45.1 E						
		122° 302°	8.4	FL 195 5704 ft MEA = 6000 ft	MOCA = 5704 ft	Even	Even	ACC Zurich {C, E} TWR/APP Emmen {D}
△	LS201	47 02 15.9 N 008 35 42.6 E						
		173° 353°	6.3	FL 195 6632 ft MEA = 7000 ft	MOCA = 6632 ft	Odd	Odd	ACC Zurich {C, E}
△	LS202	46 56 00.8 N 008 36 23.1 E						
		173° 353°	3.0	FL 195 7928 ft MEA = 8000 ft	MOCA = 7928 ft	Even	Even	ACC Zurich {C, E}
△	LS203	46 53 01.4 N 008 36 42.4 E						
		156° 336°	3.6	FL 195 7960 ft MEA = 8000 ft	MOCA = 7960 ft	Even	Even	ACC Zurich {C, E}
△	LS204	46 49 40.6 N 008 38 37.5 E						
		167° 347°	3.0	FL 195 8598 ft MEA = 9000 ft	MOCA = 8598 ft	Odd	Odd	ACC Zurich {C, E}
△	LS205	46 46 45.0 N 008 39 20.8 E						
		202° 022°	5.4	FL 195 9632 ft MEA = 10000 ft	MOCA = 9632 ft	Even	Even	ACC Zurich {C, E}
△	LS206	46 41 51.5 N 008 36 05.3 E						
		186° 006°	2.9	FL 195 9782 ft MEA = 10000 ft	MOCA = 9782 ft	Even	Even	ACC Zurich {C, E}
△	LS207	46 38 59.9 N 008 35 25.1 E						
		208° 028°	4.1	FL 195 10500 ft MEA = 11000 ft	MOCA = 10465 ft	Odd	Odd	ACC Zurich {C, E}
△	LS208	46 35 30.7 N 008 32 22.2 E						
		153° 333°	2.9	FL 195 11500 ft MEA = 12000 ft	MOCA = 10673 ft	Even	Even	ACC Zurich {C, E}
△	LS209	46 32 52.6 N 008 34 03.6 E						
		111° 291°	3.1	FL 195 11500 ft MEA = 12000 ft	MOCA = 10495 ft	Even	Even	ACC Zurich {C, E}
△	LS210	46 31 37.9 N 008 38 10.8 E						
		111° 291°	7.6	FL 195 10500 ft MEA = 11000 ft	MOCA = 9350 ft	Odd	Odd	ACC Zurich {C, E}
△	LS211	46 28 33.8 N 008 48 17.4 E						

Route Designator		Route Remarks (Optional)						
Name of significant points		Significant point geographical coordinates						Significant Point Remarks
Route Segment RCP/RSP specification		Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
		↓ ↑				↓	↑	
		137° 317°	9.0	FL 195 8500 ft MEA = 9000 ft	MOCA = 8351 ft	Odd	Odd	ACC Zurich {C, E}
△	LS212	46 21 39.2 N 008 56 39.3 E						
		151° 332°	9.2	FL 195 6982 ft MEA = 7000 ft	MOCA = 6982 ft	Odd	Odd	ACC Zurich {C, E}
△	LS213	46 13 22.8 N 009 02 21.2 E						
		209° 029°	8.0	FL 195 6500 ft MEA = 7000 ft	MOCA = 5692 ft	Odd	Odd	ACC Zurich {C, E} TWR/APP Locarno {D}
△	LS214	46 06 32.9 N 008 56 16.8 E						
		187° 007°	6.4	FL 195 5500 ft MEA = 6000 ft	MOCA = 5153 ft	Even	Even	ACC Zurich {C, E} TWR/APP Locarno {D}
△	LUGAN	46 00 13.1 N 008 54 37.0 E						

Route Designator		Route Remarks (Optional)						
Name of significant points		Significant point geographical coordinates						Significant Point Remarks
Route Segment RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}	
	↓ ↑				↓	↑		
KY253								
△	LS201	47 02 15.9 N 008 35 42.6 E						
		217° 037°	7.6	FL 195 6500 ft MEA = 7000 ft	MOCA = 5903 ft			ACC Zurich {C, E}
△	LS301	47 08 14.0 N 008 42 41.3 E						
		217° 037°	4.1	FL 195 5500 ft MEA = 6000 ft	MOCA = 4950 ft			ACC Zurich APP Zurich {C, E}
△	LS302	47 11 25.4 N 008 46 25.9 E						
		217° 037°	1.3	FL 195 4500 ft MEA = 5000 ft	MOCA = 4950 ft			ACC Zurich APP Zurich {C, E}
△	LS110	47 12 26.8 N 008 47 38.1 E						

Route Designator		Route Remarks (Optional)							
Name of significant points		Significant point geographical coordinates						Significant Point Remarks	
Route Segment RCP/RSP specification		Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}	
		↓ ↑				↓	↑		
KY256									
△	UMTOP	47 07 38.9 N 00749 06.2 E							
		051° 231°	12.3	FL 195 4500 ft MEA = 5000 ft				ACC Zurich {C, E}	
△	LS601	47 15 04.1 N 008 03 26.0 E							
		077° 257°	4.6	FL 195 4500 ft MEA = 5000 ft				ACC Zurich {C, E}	
△	LS602	47 15 56.6 N 008 10 06.8 E							
		072° 252°	4.8	FL 195 4500 ft MEA = 5000 ft				ACC Zurich {C, E}	
△	LS603	47 17 16.4 N 008 16 48.8 E							
		115° 295°	8.1	FL 195 4500 ft MEA = 5000 ft	MOCA = 3744 ft			ACC Zurich {C, E}	
△	RONIX	47 13 34.5 N 008 27 25.2 E							
		129° 309°	3.6	FL 195 4500 ft MEA = 5000 ft	MOCA = 2970 ft			ACC Zurich {C, E} TWR/APP Emmen {D}	
△	ZC700	47 11 14.6 N 008 31 23.3 E							

Route Designator		Route Remarks (Optional)						
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Route Segment RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}	
	↓ ↑				↓	↑		
KY257								
△	ME103	47 07 27.9 N 008 07 05.1 E						
		102° 282°	10.2	FL 195 4500 ft <i>MEA = 5000 ft</i>			ACC Zurich {C, E} TWR/APP Emmen {D}	
△	LS701	47 04 58.1 N 008 21 31.0 E						
		051° 232°	3.6	FL 195 4500 ft <i>MEA = 5000 ft</i>			ACC Zurich {C, E} TWR/APP Emmen {D}	
△	LS702	47 07 06.3 N 008 25 45.1 E						
		052° 232°	4.9	FL 195 4500 ft <i>MEA = 5000 ft</i>			ACC Zurich {C, E} TWR/APP Emmen {D}	
△	LS703	47 10 00.7 N 008 31 31.7 E						
		066° 246°	4.5	FL 195 4500 ft <i>MEA = 5000 ft</i>			ACC Zurich {C, E}	
△	OSNOG	47 11 42.5 N 008 37 36.1 E						