

ENR 3.4 HELICOPTER 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](#) §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 - 3](#) §5.3) is not applicable to LFN.

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3. Low Flight Network (LFN) ATS Routes

Route Designator {RNP Type} [Route Usage Notes]													
Significant Point Name		Significant Point Coordinates						Remarks					
{RNP Type}	Track MAG	Dist (NM)	Upper limit / Lower limit	Minimum enroute altitude	Lateral limits (NM) / MOCA	Direction of cruising levels		Controlling unit {Airspace class} Remarks					
						↓	↑						
KQ811													
△ LS103						46 43 11.2 N 006 57 39.1 E							
	274°	9.2	FL 195 5500 ft	6000 ft				ACC Geneva {C, E} TWR/APP Payerne {D}					
△ ETEKI		46 44 10.8 N 006 44 21.4 E											

Route Designator {RNP Type} [Route Usage Notes]														
Significant Point Name		Significant Point Coordinates						Remarks						
{RNP Type}	Track MAG	Dist (NM)	Upper limit / Lower limit	Minimum enroute altitude	Lateral limits (NM) / MOCA	Direction of cruising levels		Controlling unit {Airspace class} Remarks						
						↓	↑							
KQ821														
△ ME103 47 07 27.9 N 008 07 05.1 E														
	064°	15.2	FL 195 4500 ft	5000 ft	3675 ft			ACC Zurich {C, E} TWR/APP Emmen {D}						
△ RONIX 47 13 34.5 N 008 27 25.2 E														

Route Designator {RNP Type} [Route Usage Notes]								
Significant Point Name		Significant Point Coordinates						Remarks
{RNP Type}	Track MAG	Dist (NM)	Upper limit / Lower limit	Minimum enroute altitude	Lateral limits (NM) / MOCA	Direction of cruising levels		Controlling unit {Airspace class} Remarks
						↓	↑	
KQ831								
△ DEGES		47 24 45 N 009 12 07 E						
	234° °	9.9	FL 195 5500 ft	6000 ft				ACC Zurich {C, E} TWR/APP Dubendorf, {D}
△ MD503		47 19 16.1 N 009 00 03.8 E						

Route Designator {RNP Type} [Route Usage Notes]														
Significant Point Name	Significant Point Coordinates						Remarks							
{RNP Type}	Track MAG	Dist (NM)	Upper limit / Lower limit	Minimum enroute altitude	Lateral limits (NM) / MOCA	Direction of cruising levels		Controlling unit {Airspace class} Remarks						
						↓	↑							
KQ832														
△ LS111 47 12 41.6 N 008 57 01.1 E														
	015° °	1.9	FL 195 4500 ft	5000 ft				ACC Zurich {C, E} TWR/APP Dubendorf {D}						
△ MD505 47 14 30.6 N 008 57 49.1 E														

Route Designator {RNP Type} [Route Usage Notes]								
Significant Point Name		Significant Point Coordinates						Remarks
{RNP Type}	Track MAG	Dist (NM)	Upper limit / Lower limit	Minimum enroute altitude	Lateral limits (NM) / MOCA	Direction of cruising levels		Controlling unit {Airspace class} Remarks
						↓	↑	
KQ833								
△ LS110		47 12 26.8 N 008 47 38.1 E						
	308° °	0.9	FL 195 4500 ft	5000 ft				ACC Zurich {C, E} TWR/APP Dubendorf {D}
△ MD516		47 13 02.2 N 008 46 37.2 E						

Route Designator {RNP Type} [Route Usage Notes]								
Significant Point Name	Significant Point Coordinates						Remarks	
{RNP Type}	Track MAG	Dist (NM)	Upper limit / Lower limit	Minimum enroute altitude	Lateral limits (NM) / MOCA	Direction of cruising levels		Controlling unit {Airspace class} Remarks
						↓	↑	
KQ834								
△ VIBAX	47 20 50.0 N 008 52 55.9 E							
	106° ↻	5.1	FL 195 5500 ft	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	6000 ft				ACC Zurich {C, E} TWR/APP Dubendorf {D}
△ LS112	47 19 25.5 N 009 09 02.0 E							

Route Designator {RNP Type}		[Route Usage Notes]						
Significant Point Name	Significant Point Coordinates						Remarks	
{RNP Type}	Track MAG	Dist (NM)	Upper limit / Lower limit	Minimum enroute altitude	Lateral limits (NM) / MOCA	Direction of cruising levels		Controlling unit {Airspace class} Remarks
						↓	↑	
KQ842								
△ SITOR		47 30 36.7 N 009 20 10.5 E						
	221° 041°	8.0	FL 195 4500 ft	5000 ft				ACC Zurich {C, E} TWR/APP St.Gallen Altenrhein {D}
△ DEGES		47 24 45 N 009 12 07 E						

Route Designator {RNP Type} [Route Usage Notes]								
Significant Point Name	Significant Point Coordinates							Remarks
{RNP Type}	Track MAG	Dist (NM)	Upper limit / Lower limit	Minimum enroute altitude	Lateral limits (NM) / MOCA	Direction of cruising levels		Controlling unit {Airspace class} Remarks
						↓	↑	
KQ851								
△ LS214 46 06 32.9 N 008 56 16.8 E								
	188° 008°	6.4	FL 195 5500 ft	6000 ft				ACC Zurich {C, E} TWR/APP Lugano {D}
△ LUGAN 46 00 13.1 N 008 54 37.0 E								

Route Designator {RNP Type} [Route Usage Notes]								
Significant Point Name	Significant Point Coordinates						Remarks	
{RNP Type}	Track MAG	Dist (NM)	Upper limit / Lower limit	Minimum enroute altitude	Lateral limits (NM) / MOCA	Direction of cruising levels		Controlling unit {Airspace class} Remarks
						↓	↑	
KQ861								
△ LS105	46 55 44.0 N 007 28 44.9 E							
	253° ⊙	5.0	FL 195 5500 ft	6000 ft				ACC Zurich {C, E} TWR/APP Berne {D}
△ LS561	46 54 28.4 N 007 21 41.4 E							
	253° ⊙	4.1	FL 195 4500 ft	5000 ft				ACC Zurich {C, E} TWR/APP Berne {D}
△ ASBER	46 53 25.9 N 007 15 52.8 E							

Route Designator {RNP Type} [Route Usage Notes]								
Significant Point Name	Significant Point Coordinates						Remarks	
{RNP Type}	Track MAG	Dist (NM)	Upper limit / Lower limit	Minimum enroute altitude	Lateral limits (NM) / MOCA	Direction of cruising levels		Controlling unit {Airspace class} Remarks
						↓	↑	
KQ862								
△ FRIBOURG VOR/ DME (FRI)	46 46 39 N 007 13 25 E							
	012° °	4.0	FL 195 5500 ft	6000 ft				ACC Geneva {C, E}
△ LS562	46 50 32.0 N 007 14 49.4 E							
	012° °	3.0	FL 195 4500 ft	5000 ft				ACC Geneva {C, E} TWR/APP Berne {D}
△ ASBER	46 53 25.9 N 007 15 52.8 E							

Route Designator {RNP Type}		[Route Usage Notes]						
Significant Point Name	Significant Point Coordinates						Remarks	
{RNP Type}	Track MAG	Dist (NM)	Upper limit / Lower limit	Minimum enroute altitude	Lateral limits (NM) / MOCA	Direction of cruising levels		Controlling unit {Airspace class} Remarks
						↓	↑	
KQ864								
△ AMRID		46 56 05 N 007 19 33 E						
	202° 022°	3.0	FL 195 4200 ft	4700 ft				ACC Geneva {C, E} TWR/APP Berne {D}
△ LS564		46 53 21.1 N 007 17 46.1 E						
	202° 022°	7.3	FL 195 5000 ft	5500 ft				ACC Geneva {C, E}
△ FRIBOURG VOR/ DME (FRI)		46 46 39 N 007 13 25 E						

Route Designator {RNP Type} [Route Usage Notes]								
Significant Point Name	Significant Point Coordinates						Remarks	
{RNP Type}	Track MAG	Dist (NM)	Upper limit / Lower limit	Minimum enroute altitude	Lateral limits (NM) / MOCA	Direction of cruising levels		Controlling unit {Airspace class} Remarks
						↓	↑	
KQ866								
△ UMTOP		47 07 38.9 N 007 49 06.2 E						
	252° 072°	8.9	FL 195 5500 ft	6000 ft				ACC Zurich {C, E} TWR/APP Berne {D}
△ MEBOX		47 05 10 N 007 36 33 E						
	243° 0°	10.5	FL 195 5500 ft	6000 ft				ACC Zurich {C, E} TWR/APP Berne {D}
△ BIRKI		47 00 46.6 N 007 22 34.8 E						

Route Designator {RNP Type} [Route Usage Notes]								
Significant Point Name		Significant Point Coordinates						Remarks
{RNP Type}	Track MAG	Dist (NM)	Upper limit / Lower limit	Minimum enroute altitude	Lateral limits (NM) / MOCA	Direction of cruising levels		Controlling unit {Airspace class} Remarks
						↓	↑	
KQ868								
△ RAMOK		47 01 20.2 N 007 41 03.0 E						
	039° °	8.4	FL 195 5500 ft	6000 ft				ACC Zurich {C, E} TWR/APP Berne {D}
△ UMTOP		47 07 38.9 N 007 49 06.2 E						

Route Designator {RNP Type} [Route Usage Notes]								
Significant Point Name	Significant Point Coordinates						Remarks	
{RNP Type}	Track MAG	Dist (NM)	Upper limit / Lower limit	Minimum enroute altitude	Lateral limits (NM) / MOCA	Direction of cruising levels		Controlling unit {Airspace class} Remarks
						↓	↑	
KY251								
△ Gland NDB (GLA)	46 24 31 N 006 14 39 E							
	064° 244°	9.2	FL 195 3500 ft	4000 ft	2671 ft			ACC Geneva APP Geneva {C, E}
△ St-Prex VOR/DME (SPR)	46 28 07 N 006 26 53 E							
	087° 267°	11.4	FL 195 3500 ft	4000 ft				ACC Geneva {C, E}
△ LS100	46 28 14.5 N 006 43 22.4 E							
	031° 211°	17.9	FL 195 5500 ft	6000 ft				ACC Geneva {C, E}
△ LS103	46 43 11.2 N 006 57 39.1 E							
	070° 250°	11.4	FL 195 5500 ft	6000 ft				ACC Geneva {C, E}
△ FRIBOURG VOR/ DME (FRI)	46 46 39 N 007 13 25 E							
	047° 227°	13.9	FL 195 5500 ft	6000 ft				ACC Geneva, Zurich, {C, E} TWR/APP Berne {D}
△ LS105	46 55 44.0 N 007 28 44.9 E							
	047° 228°	18.3	FL 195 5500 ft	6000 ft				ACC Geneva, Zurich, {C, E} TWR/APP Berne {D}
△ UMTOP	47 07 38.9 N 007 49 06.2 E							
	089° 269°	12.3	FL 195 4500 ft	5000 ft				ACC Zurich {C, E}
△ ME103	47 07 27.9 N 008 07 05.1 E							
	080° 260°	10.3	FL 195 4500 ft	5000 ft	3642 ft			ACC Zurich {C, E} TWR/APP Emmen {D}
△ ME104	47 08 53.5 N 008 22 05.9 E							
	068° 248°	6.8	FL 195 4500 ft	5000 ft	2937 ft			ACC Zurich {C, E} TWR/APP Emmen {D}
△ ZC700	47 11 14.6 N 008 31 23.3 E							
	082° 262°	4.3	FL 195 4500 ft	5000 ft				ACC Zurich, {C, E} TWR/APP Emmen {D}
△ OSNOG	47 11 42.5 N 008 37 36.1 E							
	082° 262°	6.9	FL 195 4500 ft	5000 ft				ACC Zurich {C, E}
△ LS110	47 12 26.8 N 008 47 38.1 E							
	086° 266°	6.4	FL 195 4500 ft	5000 ft				ACC Zurich {C, E}

Route Designator {RNP Type} [Route Usage Notes]								
Significant Point Name	Significant Point Coordinates							Remarks
{RNP Type}	Track MAG	Dist (NM)	Upper limit / Lower limit	Minimum enroute altitude	Lateral limits (NM) / MOCA	Direction of cruising levels		Controlling unit {Airspace class} Remarks
						↓	↑	
△ LS111	47 12 41.6 N 008 57 01.1 E							
	048° 229°	10.6	FL 195 5500 ft	6000 ft				ACC Zurich {C, E}
△ LS112	47 19 25.5 N 009 09 02.0 E							
	019° 119°	5.7	FL 195 5500 ft	6000 ft				ACC Zurich {C, E}
△ DEGES	47 24 45 N 009 12 07 E							

Route Designator {RNP Type} [Route Usage Notes]								
Significant Point Name	Significant Point Coordinates						Remarks	
{RNP Type}	Track MAG	Dist (NM)	Upper limit / Lower limit	Minimum enroute altitude	Lateral limits (NM) / MOCA	Direction of cruising levels		Controlling unit {Airspace class} Remarks
						↓	↑	
KY252								
△ ME104	47 08 53.5 N 008 22 05.9 E							
	124° 304°	3.1	FL 195 5500 ft	6000 ft	5668 ft			ACC Zurich {C, E} TWR/APP Emmen {D}
△ LS702	47 07 06.3N 008 25 45.1 E							
	123° 303°	8.4	FL 195 5500 ft	6000 ft				ACC Zurich {C, E} TWR/APP Emmen {D}
△ LS201	47 02 15.9 N 008 35 42.6 E							
	174° 354°	6.3	FL 195 6500 ft	7000 ft				ACC Zurich {C, E}
△ LS202	46 56 00.8 N 008 36 23.1 E							
	174° 354°	3.0	FL 195 7500 ft	8000 ft				ACC Zurich {C, E}
△ LS203	46 53 01.4 N 008 36 42.4 E							
	157° 337°	3.6	FL 195 7500 ft	8000 ft				ACC Zurich {C, E}
△ LS204	46 49 40.6 N 008 38 37.5 E							
	168° 348°	3.0	FL 195 8500 ft	9000 ft				ACC Zurich {C, E}
△ LS205	46 46 45.0N 008 39 20.8 E							
	203° 023°	5.4	FL 195 9500 ft	10000 ft				ACC Zurich {C, E}
△ LS206	46 41 51.5 N 008 36 05.3 E							
	187° 007°	2.9	FL 195 9500 ft	10000 ft				ACC Zurich {C, E}
△ LS207	46 38 59.9 N 008 35 25.1 E							
	209° 029°	4.1	FL 195 10500 ft	11000 ft				ACC Zurich {C, E}
△ LS208	46 35 30.7 N 008 32 22.2 E							
	154° 334°	2.9	FL 195 11500 ft	12000 ft				ACC Zurich {C, E}
△ LS209	46 32 52.6 N 008 34 03.6 E							
	112° 292°	3.1	FL 195 11500 ft	12000 ft				ACC Zurich {C, E}
△ LS210	46 31 37.9 N 008 38 10.8 E							
	112° 292°	7.6	FL 195 10500 ft	11000 ft				ACC Zurich {C, E}
△ LS211	46 28 33.8 N 008 48 17.4 E							
	138° 318°	9.0	FL 195 8500 ft	9000 ft				ACC Zurich {C, E}

Route Designator {RNP Type} [Route Usage Notes]								
Significant Point Name	Significant Point Coordinates						Remarks	
{RNP Type}	Track MAG	Dist (NM)	Upper limit / Lower limit	Minimum enroute altitude	Lateral limits (NM) / MOCA	Direction of cruising levels		Controlling unit {Airspace class} Remarks
						↓	↑	
△ LS212 46 21 39.2 N 008 56 39.3 E								
	152° 333°	9.2	FL 195 6500 ft	7000 ft				ACC Zurich {C, E}
△ LS213 46 13 22.8 N 009 02 21.2 E								
	210° 030°	8.0	FL 195 6500 ft	7000 ft				ACC Zurich {C, E}
△ LS214 46 06 32.9 N 008 56 16.8 E								

Route Designator {RNP Type}									[Route Usage Notes]								
Significant Point Name			Significant Point Coordinates						Remarks								
{RNP Type}	Track MAG	Dist (NM)	Upper limit / Lower limit	Minimum enroute altitude	Lateral limits (NM) / MOCA	Direction of cruising levels		Controlling unit {Airspace class} Remarks									
						↓	↑										
KY253																	
△ LS201			47 02 15.9 N 008 35 42.6 E														
	217° 037°	7.6	FL 195 6500 ft	7000 ft	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	6000 ft	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	5000 ft	4950 ft			ACC Zurich APP Zurich {C, E}									
△ LS110			47 12 26.8 N 008 47 38.1 E														

Route Designator {RNP Type} [Route Usage Notes]								
Significant Point Name	Significant Point Coordinates						Remarks	
{RNP Type}	Track MAG	Dist (NM)	Upper limit / Lower limit	Minimum enroute altitude	Lateral limits (NM) / MOCA	Direction of cruising levels		Controlling unit {Airspace class} Remarks
						↓	↑	
KY256								
△ UMTOP	47 07 38.9 N 00749 06.2 E							
	051° 231°	12.3	FL 195 4500 ft	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	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	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	5000 ft	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	5000 ft	2970 ft			ACC Zurich {C, E} TWR/APP Emmen {D}
△ ZC700	47 11 14.6 N 008 31 23.3 E							

Route Designator {RNP Type} [Route Usage Notes]								
Significant Point Name	Significant Point Coordinates						Remarks	
{RNP Type}	Track MAG	Dist (NM)	Upper limit / Lower limit	Minimum enroute altitude	Lateral limits (NM) / MOCA	Direction of cruising levels		Controlling unit {Airspace class} Remarks
						↓	↑	
KY257								
△ ME103	47 07 27.9 N 008 07 05.1 E							
	$\frac{102^\circ}{282^\circ}$	10.2	$\frac{FL\ 195}{4500\ ft}$	5000 ft				ACC Zurich {C, E} TWR/APP Emmen {D}
△ LS701	47 04 58.1 N 008 21 31.0 E							
	$\frac{051^\circ}{232^\circ}$	3.6	$\frac{FL\ 195}{4500\ ft}$	5000 ft				ACC Zurich {C, E} TWR/APP Emmen {D}
△ LS702	47 07 06.3 N 008 25 45.1 E							
	$\frac{052^\circ}{232^\circ}$	4.9	$\frac{FL\ 195}{4500\ ft}$	5000 ft				ACC Zurich {C, E} TWR/APP Emmen {D}
△ LS703	47 10 00.7 N 008 31 31.7 E							
	$\frac{066^\circ}{246^\circ}$	4.5	$\frac{FL\ 195}{4500\ ft}$	5000 ft				ACC Zurich {C, E}
△ OSNOG	47 11 42.5 N 008 37 36.1 E							