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AIRAC

AIP

**AIRAC AMDT 008
2023**

Effective Date 02 NOV 2023

Publication Date 21 SEP 2023

RMK

Filing instruction: Insert this AIRAC AMDT into AIP before inserting AMDT of same effective date, if issued.

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2. Record entry of amendment on page GEN 0.2

3. This AIP AMDT incorporates information contained in the following publications:

NOTAM: NIL

AIP SUP: NIL

AIC: NIL

Enroute chart: NIL

4. Following SUP and AIRAC SUP are still in force on effective date:

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006/2016	12-May-2016	23-Jun-2016	
007/2016	09-Jun-2016	21-Jul-2016	
008/2016	07-Jul-2016	18-Aug-2016	
009/2016	04-Aug-2016	15-Sep-2016	
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LSGS AD 2.24.10 - 1	23 MAR 2023	LSZH AD 2 - 62	AIRAC 23 MAR 2023	LSZH AD 2.24.7.4 - 7	AIRAC 24 MAR 2022
LSGS AD 2.24.10 - 2	23 MAR 2023	LSZH AD 2 - 63	AIRAC 23 MAR 2023	LSZH AD 2.24.7.4 - 8	AIRAC 24 MAR 2022
LSGS AD 2.24.10 - 3	03 NOV 2022	LSZH AD 2 - 64	AIRAC 23 MAR 2023	LSZH AD 2.24.7.5 - 1	07 OCT 2021
LSGS AD 2.24.10 - 4	03 NOV 2022	LSZH AD 2 - 65	AIRAC 23 MAR 2023	LSZH AD 2.24.7.5 - 2	07 OCT 2021
LSGS AD 2.24.10 - 5	23 MAR 2023	LSZH AD 2 - 66	AIRAC 23 MAR 2023	LSZH AD 2.24.7.5 - 3	07 OCT 2021
LSGS AD 2.24.10 - 6	23 MAR 2023	LSZH AD 2 - 67	20 APR 2023	LSZH AD 2.24.7.5 - 4	07 OCT 2021
LSGS AD 2.24.13 - 1	AIRAC 26 MAR 2020	LSZH AD 2 - 68	20 APR 2023	LSZH AD 2.24.7.5 - 5	AIRAC 15 JUN 2023
LSGS AD 2.24.13 - 2	AIRAC 26 MAR 2020	LSZH AD 2 - 69	AIRAC 23 MAR 2023	LSZH AD 2.24.7.5 - 6	AIRAC 15 JUN 2023
LSGS AD 2.24.13 - 3	AIRAC 26 MAR 2020	LSZH AD 2 - 70	AIRAC 23 MAR 2023	LSZH AD 2.24.7.5 - 7	AIRAC 18 MAY 2023
LSGS AD 2.24.13 - 4	AIRAC 26 MAR 2020	LSZH AD 2 - 71	AIRAC 23 MAR 2023	LSZH AD 2.24.7.5 - 8	AIRAC 18 MAY 2023
LSZH AD 2 - 1	14 JUL 2022	LSZH AD 2 - 72	AIRAC 23 MAR 2023	LSZH AD 2.24.7.5 - 9	07 OCT 2021
LSZH AD 2 - 2	14 JUL 2022	LSZH AD 2.24.1 - 1	05 OCT 2023	LSZH AD 2.24.7.5 - 10	07 OCT 2021
LSZH AD 2 - 3	05 OCT 2023	LSZH AD 2.24.1 - 2	05 OCT 2023	LSZH AD 2.24.7.6 - 1	07 OCT 2021

Page	Date	Page	Date	Page	Date
LSZH AD 2.24.7.6 - 2	07 OCT 2021				
LSZH AD 2.24.9.1 - 1	AIRAC 24 MAR 2022				
LSZH AD 2.24.9.1 - 2	AIRAC 24 MAR 2022				
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LSZH AD 2.24.9.2 - 2	AIRAC 15 JUN 2023				
LSZH AD 2.24.9.3 - 1	AIRAC 24 MAR 2022				
LSZH AD 2.24.9.3 - 2	AIRAC 24 MAR 2022				
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LSZH AD 2.24.10.1 - 2	AIRAC 23 MAR 2023				
LSZH AD 2.24.10.1 - 3	AIRAC 15 JUN 2023				
LSZH AD 2.24.10.1 - 4	AIRAC 15 JUN 2023				
LSZH AD 2.24.10.1 - 5	AIRAC 15 JUN 2023				
LSZH AD 2.24.10.1 - 6	AIRAC 15 JUN 2023				
LSZH AD 2.24.10.1 - 7	AIRAC 23 MAR 2023				
LSZH AD 2.24.10.1 - 8	AIRAC 23 MAR 2023				
LSZH AD 2.24.10.1 - 9	AIRAC 23 MAR 2023				
LSZH AD 2.24.10.1 - 10	AIRAC 23 MAR 2023				
LSZH AD 2.24.10.2 - 1	AIRAC 23 MAR 2023				
LSZH AD 2.24.10.2 - 2	AIRAC 23 MAR 2023				
LSZH AD 2.24.10.2 - 3	AIRAC 15 JUN 2023				
LSZH AD 2.24.10.2 - 4	AIRAC 15 JUN 2023				
LSZH AD 2.24.10.2 - 5	AIRAC 15 JUN 2023				
LSZH AD 2.24.10.2 - 6	AIRAC 15 JUN 2023				
LSZH AD 2.24.10.2 - 7	AIRAC 23 MAR 2023				
LSZH AD 2.24.10.2 - 8	AIRAC 23 MAR 2023				
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LSZH AD 2.24.10.3 - 2	AIRAC 15 JUN 2023				
LSZH AD 2.24.10.3 - 3	AIRAC 15 JUN 2023				
LSZH AD 2.24.10.3 - 4	AIRAC 15 JUN 2023				
LSZH AD 2.24.10.3 - 5	AIRAC 15 JUN 2023				
LSZH AD 2.24.10.3 - 6	AIRAC 15 JUN 2023				
LSZH AD 2.24.10.3 - 7	AIRAC 02 DEC 2021				
LSZH AD 2.24.10.3 - 8	AIRAC 02 DEC 2021				
LSZH AD 2.24.10.3 - 9	AIRAC 15 JUN 2023				
LSZH AD 2.24.10.3 - 10	AIRAC 15 JUN 2023				
LSZH AD 2.24.10.4 - 1	07 OCT 2021				
LSZH AD 2.24.10.4 - 2	07 OCT 2021				
LSZH AD 2.24.10.4 - 3	AIRAC 15 JUN 2023				
LSZH AD 2.24.10.4 - 4	AIRAC 15 JUN 2023				
LSZH AD 2.24.10.4 - 5	AIRAC 15 JUN 2023				
LSZH AD 2.24.10.4 - 6	AIRAC 15 JUN 2023				
LSZH AD 2.24.10.4 - 7	AIRAC 15 JUN 2023				
LSZH AD 2.24.10.4 - 8	AIRAC 15 JUN 2023				
LSZH AD 2.24.13 - 1	AIRAC 24 MAR 2022				
LSZH AD 2.24.13 - 2	AIRAC 24 MAR 2022				






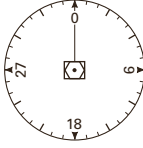



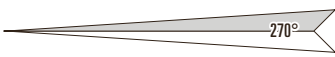
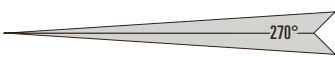
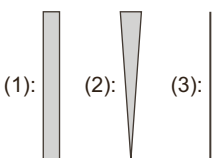
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GEN 2.3 CHART SYMBOLS


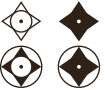

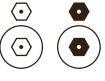
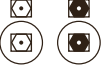

2.3.1 Aerodromes

	Airport *
	Airfield (private) *
	Military Aerodrome * *) with alignment of the longest paved surface Runway
	Civil and Military Airport, joint *
	Runway Pattern of Airport, with Name and Designator
	Heliport






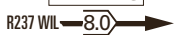





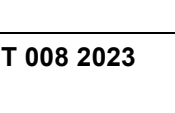
2.3.2 Radio Navigation Aids

	Basic Radio Facility (e.g., VDF, LOC, GP)
	Non-directional Radio Beacon (NDB)
	Distance Measuring Equipment (DME)
	VHF Omnidirectional Radio Range (VOR)
	Colocated VOR and DME Radio Navigation Aid (VOR/DME)
	VOR/DME with Compass Rose
	Example for an VOR/DME Tag: <i>Ident, Type, Frequency</i>
	Ground Based Augmentation System (GBAS)
	Instrument Landing System (ILS) colocated with DME
	Landing System's Course:
	Front Course (ILS LOC, GLS) in Chart View
	Glide Path (ILS GP, GLS) in Profile View
	Profile View of
	(1) DME, (2) VOR/DME or NDB, and (3) DME Fix.

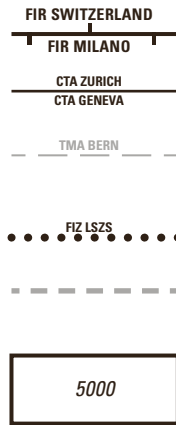
2.3.3 Significant Points

	On Request and Compulsory, Intersection
<p>GIPOL 7000</p> 	Example for Waypoint Tag: Designator and MCA On Request and Compulsory, flyby Waypoint (RNAV) On Request and Compulsory, flyover Waypoint (RNAV)
 <p>E W</p>	On Request and Compulsory, VFR Reporting Point with Ident
	On Request and Compulsory, VOR (flyby RNAV) On Request and Compulsory, flyover VOR (RNAV)
	On Request and Compulsory, VOR/DME (flyby RNAV) On Request and Compulsory, flyover VOR/DME (RNAV)
	On Request and Compulsory, NDB (flyby RNAV) On Request and Compulsory, flyover NDB (RNAV)

2.3.4 Routes, Procedures and Holdings

<p>D6.3 IBE 4000 X</p> 	Fix or Turning Point, possibly with Altitude Change or Restriction
	ATS Route, STAR, SID, or Instrument Approach Procedure (IAP)
	SID or STAR: Routing by ATC IAC: Missed Approach Procedure (MAP)
	IAC: Additional Procedure Track
	Enroute Chart: RNAV Route
	Enroute Chart: Non-RNAV Route
<p>AMRID 2S</p> 	Example for a SID or STAR Procedure: <i>Designator, Radial and Distance</i>
<p>Y51</p> 	Enroute Chart Example for an ATS Route: <i>Route Designator, Track, Distance, Direction of Cruising Level, and MEA</i>
<p>GIPOL HLDG</p> <p>INBD 078° (080.3°T), 1min, MAX IAS 230kt; 7000</p> 	Example for a Holding Description: <i>Identification, Fix or Waypoint, Inbound Track (True Track), Outbound Time, Indicated Airspeed, Minimum Holding Altitude</i>
	Graphical Depiction of a Holding
	Graphical Depiction of an Overload Holding (on ATC REQ only)
	Graphical Depiction of a Race Track

2.3.5 Air Traffic Services



Flight Information Region (FIR)

Control Area (CTA)

Terminal Control Area (TMA) or Control Zone (CTR) or Radio Mandatory Zone (RMZ), generalised

Flight Information Zone (FIZ)

Index Chart: Separation Line "Mittelland/ Jura-Alpen"

ATC SMA Chart: Minimum Vectoring Altitude Sector with Minimum Altitude

2.3.6 Procedure Altitudes and Flight Levels

<u>17000</u>	<u>FL220</u>
<u>10000</u>	<u>10000</u>
<u>7000</u>	<u>FL70</u>
<u>5000</u>	<u>FL50</u>
<u>3000</u>	<u>FL30</u>
5000	FL50

Altitude/ Flight Level Vertical Limits

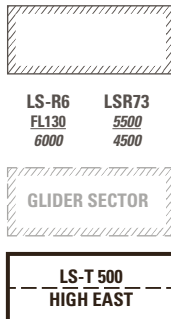
"At or above" Altitude/ Flight Level

"At or below" Altitude/ Flight Level

"At" Altitude/ Flight Level

"Recommended" Procedure Altitude/ Flight Level

2.3.7 Airspace Restrictions









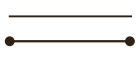



Prohibited (P), Restricted (R) or Danger Area (D)

Example for Restricted Area Tag: *Designator and Restrictions*

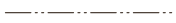
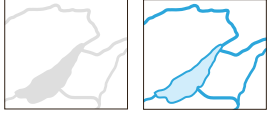

Glider Sector

Temporary Reserved Area (LS-T...) with Designator and Name

2.3.8 Obstacles

	Single Obstacle and Single Obstacle lighted
	Group of Obstacles and Group of Obstacles lighted
	Exceptionally high Obstacle (500 ft AGL or more)
	Wind Turbine and Wind Turbine, lighted
	Elevation of top in <i>ft AMSL</i>
	Spot Elevation and Highest Elevation on Chart in <i>ft AMSL</i>
	Transmission lines, unmarked and marked
	Line obstruction (cable, cableway, etc.), unmarked and marked
	Altitudes shown for transmission lines and cables in <i>ft AGL</i>
	Mountain Pass with Spot Elevation in <i>ft AMSL</i>

2.3.9 Topography

	Country Border
	SID, STAR, Area: Lake and River IAC: Lake and River
	IAC: Hypsometry, Tinted Layers

GEN 2.5 LIST OF RADIO NAVIGATION AIDS

Encode			
STATION NAME	FACILITY	ID	PURPOSE
BÂLE-MULHOUSE	DVOR/DME	BLM	AE
BERN-BELP	ILS/LOC/DME RWY 14	IBE	A
CORVATSCH	DME	CVA	E
FRIBOURG	VOR/DME	FRI	AE
GENEVA	DVOR/DME	GVA	AE
GENÈVE	ILS/LOC/DME RWY 04	INE	A
GENÈVE	ILS/LOC/DME RWY 22	ISW	A
GLAND	NDB	GLA	AE
HOCHWALD	DME	HOC	E
KLOTEN (ZURICH AIRPORT)	DVOR/DME	KLO	A
LA PRAZ	DME	LAP	E
LUGANO	ILS/LOC/DME RWY 01	ILU	A
PASSEIRY	DVOR/DME	PAS	AE
PAYERNE	ILS/LOC/DME RWY 05	IPN	A
PAYERNE	ILS/LOC/DME RWY 23	IPY	A
SION	ILS/LOC/DME RWY 26	ISI	A
SION	DVOR/DME	SIO	A
ST. GALLEN-ALTENRHEIN	ILS/LOC/DME RWY 10	IAL	A
ST-PREX	VOR/DME	SPR	AE
TRASADINGEN	DME	TRA	E
WEISSFLUHGIPFEL	DME	WFJ	E
WILLISAU	DVOR/DME	WIL	AE
ZURICH	GBAS	GZH	A
ZURICH	ILS/LOC/DME RWY 14	IKL	A
ZURICH	ILS/LOC/DME RWY 16	IZH	A
ZURICH	ILS/LOC/DME RWY 28	IZW	A
ZURICH	ILS/LOC/DME RWY 34	IZS	A
ZURICH EAST	DVOR/DME	ZUE	AE

Decode			
ID	STATION NAME	FACILITY	PURPOSE
BLM	BÂLE-MULHOUSE	DVOR/DME	AE
CVA	CORVATSCH	DME	E
FRI	FRIBOURG	VOR/DME	AE
GLA	GLAND	NDB	AE
GVA	GENEVA	DVOR/DME	AE
GZH	ZURICH	GBAS	A
HOC	HOCHWALD	DME	E
IAL	ST. GALLEN-ALTENRHEIN	ILS/LOC/DME RWY 10	A
IBE	BERN-BELP	ILS/LOC/DME RWY 14	A
IKL	ZURICH	ILS/LOC/DME RWY 14	A
ILU	LUGANO	ILS/LOC/DME RWY 01	A
INE	GENÈVE	ILS/LOC/DME RWY 04	A
IPN	PAYERNE	ILS/LOC/DME RWY 05	A
IPY	PAYERNE	ILS/LOC/DME RWY 23	A
ISI	SION	ILS/LOC/DME RWY 26	A
ISW	GENÈVE	ILS/LOC/DME RWY 22	A
IZH	ZURICH	ILS/LOC/DME RWY 16	A
IZS	ZURICH	ILS/LOC/DME RWY 34	A
IZW	ZURICH	ILS/LOC/DME RWY 28	A
KLO	KLOTEN (ZURICH AIRPORT)	DVOR/DME	A
LAP	LA PRAZ	DME	E
PAS	PASSEIRY	DVOR/DME	AE
SIO	SION	DVOR/DME	A
SPR	ST-PREX	VOR/DME	AE
TRA	TRASADINGEN	DME	E
WFJ	WEISSFLUHGIPFEL	DME	E
WIL	WILLISAU	DVOR/DME	AE
ZUE	ZURICH EAST	DVOR/DME	AE

ENR 3 ATS ROUTES

ENR 3.1 Conventional Navigation Routes

1. Conventional ATS route network

The ATS route network as published in ENR 3.1 and 3.2 may be used within the limits of the Swiss area of jurisdiction by appropriately equipped ACFT.

2. Index of ENR 3.1 Conventional Navigation Route Tables

Route Designator	Page
A1	ENR 3.1 - 2
A41	ENR 3.1 - 3
B16	ENR 3.1 - 4
B37	ENR 3.1 - 5
B46	ENR 3.1 - 6
G4	ENR 3.1 - 7
G5	ENR 3.1 - 8
G32	ENR 3.1 - 9
J32	ENR 3.1 - 10
R226	ENR 3.1 - 11
T10	ENR 3.1 - 12
W112	ENR 3.1 - 13
Y55	ENR 3.1 - 14
Y56	ENR 3.1 - 15

3. ENR 3.1 Lower ATS Route Tables

Route Designator		Route Remarks (Optional)							
Name of significant points		Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}	
	↓ ↑				↓	↑			
A1									
▲	DINOX	46 40 00 N 006 07 11 E							
		128° 308°	18 NM	FL500 7800 ft MEA = 8000 ft		Odd	Even	± NM	ACC Geneva {C, E}
△	St-Prex VOR/ DME (SPR)	46 28 07 N 006 26 53 E							
		324°	14 NM	FL500 11000 ft MEA = 11000 ft			Even	± NM	ACC Geneva {C, E}
△	SOFIK	46 16 24 N 006 37 57 E							

Route Designator		Route Remarks (Optional)							
Name of significant points		Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}	
	↓ — ↑				↓	↑			
A41									
△	LISMO	46 52 14 N 005 46 41 E							
		113° 293°	43 NM	FL195 6503 ft <i>MEA = 7000 ft</i>		Odd	Even	± NM	ACC Geneva {E, C} (2)
△	REVLI	46 35 11 N 006 44 36 E							
LISMO - REVLI: Only by ATC H24 (2) within FIR Switzerland; outside REF: AIP France									

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑				↓	↑		
B16								
△ Passeiry DVOR/ DME (PAS)	46 09 49 N 006 00 00 E							
	209° 029°	20 NM	FL195 7900 ft MEA = 8000 ft		Odd	Even	± NM	ACC Geneva ACC Marseille REF: AIP France {C}
△ Chambéry VOR/ DME (CBY)	45 52 55 N 005 45 26 E							

Route Designator		Route Remarks (Optional)							
Name of significant points		Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}	
	↓ ↑				↓	↑			
B37									
▲	KOVAR	46 23 31 N 005 49 01 E							
		149° 329°	16 NM	FL500 7900 ft MEA = 8000 ft		Odd	Even	± NM	ACC Geneva {C, E} (2)
△	Passeiry DVOR/DME (PAS)	46 09 49 N 006 00 00 E							
		113° 293°	14 NM	FL195 9900 ft MEA = 10000 ft		Odd	Even	± NM	ACC Geneva {C, E} (2)
△	EMGUT	46 03 56 N 006 18 19 E							
(2) within FIR Switzerland; outside REF: AIP France									

Route Designator		Route Remarks (Optional)						
Name of significant points		Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑				↓	↑		
B46								
△	ASSEQ	46 13 24 N 006 30 57 E						
		346° 166°	15 NM	FL500 7700 ft MEA = 8000 ft		Even	Odd	± NM ACC Geneva {C, E}
△	St-Prex VOR/ DME (SPR)	46 28 07 N 006 26 53 E						

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates							Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑				↓	↑		
G4								
▲ Hericourt NDB (HR)	47 33 42 N 006 43 56 E							
	096° 276°	38 NM	FL195 FL085 MEA = FL 90		Odd	Even	± NM	ACC Reims / APP Bâle / ACC Zurich REF: AIP France {C, D, E}
△ Hochwald DME (HOC)	47 28 00 N 007 39 56 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑				↓	↑		
G5								
▲ TOKDO	46 01 30 N 005 42 40 E							
	235°	15 NM	FL195 7900 ft MEA = 8000 ft			Odd	± NM	REF: AIP France (2)
△ Passeiry DVOR/ DME (PAS)	46 09 49 N 006 00 00 E							
	043° 224°	8 NM	FL095 6500 ft MEA = 7000 ft		Even	Odd	± NM	ACC Geneva {C} (3)
△ Geneva DVOR/ DME (GVA)	46 15 14 N 006 07 56 E							
	044° 224°	10 NM	FL095 6500 ft MEA = 7000 ft		Even	Odd	± NM	ACC Geneva {C} (3)
△ PETAL	46 22 05 N 006 18 01 E							
	043° 224°	9 NM	FL095 6500 ft MEA = 7000 ft		Even	Odd	± NM	ACC Geneva {C} (3)
△ St-Prex VOR/ DME (SPR)	46 28 07 N 006 26 53 E							
	057° 237°	14.1 NM	FL095 7500 ft MEA = 8000 ft		Even	Odd	± NM	ACC Geneva {C,E} (3)
△ REVL I	46 35 11 N 006 44 36 E							
	056° 236°	11.0 NM	FL095 7500 ft MEA = 8000 ft		Even	Odd	± NM	ACC Geneva {C, E} (3)
△ ROMOM	46 40 52 N 006 58 14 E							
	058° 238°	11.9 NM	FL095 7500 ft MEA = 8000 ft		Even	Odd	± NM	ACC Geneva {C, E} (3)
△ Fribourg VOR/ DME (FRI)	46 46 39 N 007 13 25 E							
(2) within FIR Switzerland; outside REF: AIP France (3) {C} within TMA Geneva								

Route Designator	Route Remarks (Optional)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment Navigation, 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}
	↓ — ↑				↓	↑	
G32							
△ Passeiry DVOR/ DME (PAS)	46 09 49 N 006 00 00 E						
	131°	20 NM	FL195 <u>10600 ft</u> MEA = 11000 ft		Odd		± NM ACC Geneva {C,E}
△ ODIKI	45 56 32 N 006 20 37 E						

Route Designator		Route Remarks (Optional)						
Name of significant points		Significant point geographical coordinates						Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑				↓	↑		
J32								
△	MOREG	46 23 35 N 006 00 26 E						
		084°	10 NM	FL195 7900 ft MEA = 8000 ft		Even	± NM	ACC Geneva {E, C} (2)
△	Gland NDB (GLA)	46 24 31 N 006 14 39 E						
		082°	18 NM	FL195 9799 ft MEA = 10000 ft		Even	± NM	ACC Geneva {E, C} (2)
△	MOLUS	46 26 38 N 006 40 46 E						
(2) within FIR Switzerland; outside REF: AIP France								

Route Designator	Route Remarks (Optional)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	↓	↑	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑						
R226							
△ Passeiry DVOR/ DME (PAS)	46 09 49 N 006 00 00 E						
	180°	18 NM	FL195 <i>14009 ft</i>		Odd		± NM REF: AIP France ACC Geneva {C}
△ RUMIL	45 51 43 N 005 58 53 E						

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑				↓	↑		
T10								
△ LUMEL	47 24 26 N 007 09 14E							
	281°	21 NM	FL500 FL145 MEA = FL150		Even		± NM	ACC REIMS
△ TORPA	47 28 46 N 006 39 31 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates							Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑	(COP)	MEA	MOCA	↓	↑		
W112								
△ ESEVA	46 48 08 N 007 00 53 E							
	277°	8.7 NM	FL245 FL110			Odd	± NM	{C}
△ FRIBOURG VOR/DME (FRI)	46 46 39 N 007 13 25 E							
	097° 277°	2.0 NM	FL245 FL110		Even	Odd	± NM	{C}
△ TELNO	46 46 19 N 007 16 15 E							
	097° 277°	30.1 NM	FL245 FL160		Even	Odd	± NM	{C}
△ MONIN	46 41 03 N 007 59 18 E							
	097° 278°	25.5 NM	FL245 FL160		Even	Odd	± NM	{C}
△ SOSON	46 36 24 N 008 35 39 E							
	098° 278°	6.9 NM	FL245 FL160		Even	Odd	± NM	{C}
△ LUKOM	46 35 06 N 008 45 31 E							
TELNO - SOSON: CDR 1 H24								

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑				↓	↑		
Y55								
▲ SOVAD	46 20 15 N 006 02 54 E							
	143°	6 NM	FL195 <u>7800 ft</u> MEA = FL 80		Odd		± NM	ACC Geneva {C}
△ Geneva DVOR/ DME (GVA)	46 15 14 N 006 07 56 E							
	192°	11 NM	FL195 <u>7800 ft</u> MEA = FL 80		Odd		± NM	ACC Geneva {C}
△ SALEV	46 04 26 N 006 03 57 E							

Route Designator	Route Remarks (Optional)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	↓	↑	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑						
Y56							
△ Fribourg VOR/ DME (FRI)	46 46 39 N 007 13 25 E						
	226°	64 NM	FL195 8500 ft MEA = FL 90		Odd		± NM ACC Geneva {C, E}
△ SALEV	46 04 26 N 006 03 57 E						

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ENR 3.2 AREA NAVIGATION ROUTES

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T53	ENR 3.2 - 17			Z141	ENR 3.2 - 61
T103	ENR 3.2 - 18			Z142	ENR 3.2 - 62
T125	ENR 3.2 - 19			Z143	ENR 3.2 - 63
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Route Designator		Route Remarks (Optional)						
Name of significant points		Significant point geographical coordinates						Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑		MEA		↓	↑		
J41								
△	Passeiry DVOR/ DME (PAS)	46 09 49 N 006 00 00 E						
	144°	20 NM	FL500 FL115 MEA = FL120		Odd		± NM	ACC Geneva REF: AIP France {C}
▲	ESAPI	45 53 24 N 006 17 25 E						

Route Designator	Route Remarks (Optional)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑	
L50							
△ BANKO	45 49 12 N 007 03 17 E						
	344°	14.8 NM	FL305 FL165 MEA = FL170		Even		± NM ACC Geneva {C}
△ VALOR	46 03 35 N 006 58 26 E						

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates							Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑				↓	↑		
L613								
▲ SUXAN	46 33 44 N 010 28 45 E							
	$\frac{315^\circ}{135^\circ}$	5.7 NM	$\frac{FL660}{15000 \text{ ft}}$ MEA = 16000 ft		Even	Odd	± NM	ACC Zurich {C} (2)
△ VALAV	46 37 58 N 010 23 10 E							
	$\frac{326^\circ}{146^\circ}$	10.3 NM	$\frac{FL660}{15000 \text{ ft}}$ MEA = 16000 ft		Even	Odd	± NM	ACC Zurich {C} (2)
△ RONAG	46 46 46 N 010 15 32 E							
	$\frac{290^\circ}{109^\circ}$	42.7 NM	$\frac{FL660}{14000 \text{ ft}}$ MEA = 15000 ft		Even	Odd	± NM	ACC Zurich {C}
△ ARGAX	47 03 00 N 009 17 53 E							
	$\frac{289^\circ}{109^\circ}$	17.2 NM	$\frac{FL660}{11000 \text{ ft}}$ MEA = 12000 ft		Even	Odd	± NM	ACC Zurich {C}
△ ELMUR	47 09 24 N 008 54 27 E							
	$\frac{289^\circ}{108^\circ}$	8.1 NM	$\frac{FL660}{9000 \text{ ft}}$ MEA = 9500 ft		Even	Odd	± NM	ACC Zurich {C}
△ MANEG	47 12 15 N 008 43 20 E							
	$\frac{288^\circ}{107^\circ}$	9.7 NM	$\frac{FL660}{9000 \text{ ft}}$ MEA = 9500 ft		Even	Odd	± NM	ACC Zurich {C}
△ RIPUS	47 15 37 N 008 30 00 E							
	$\frac{287^\circ}{107^\circ}$	7.3 NM	$\frac{FL660}{9000 \text{ ft}}$ MEA = 9500 ft		Even	Odd	± NM	ACC Zurich {C}
△ DITON	47 18 08 N 008 20 00 E							
	$\frac{287^\circ}{107^\circ}$	29.0 NM	$\frac{FL660}{6500 \text{ ft}}$ MEA = 7000 ft		Even	Odd	± NM	ACC Zurich {C}
△ Hochwald DME (HOC)	47 28 00 N 007 39 56 E							
SUXAN - MANEG: CDR 1 H24 (2) Class D within FIR MILANO								

Route Designator	Route Remarks (Optional)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑	(COP)	MEA	MOCA	↓	↑	
L856							
△ AKABI (FIR BDRY)	47 43 01 N 009 14 00 E						
	265°	5.1 NM	FL660 7500 ft MEA = FL080		Even		± NM ACC Zurich {C}
△ ROMIR	47 42 47 N 009 06 28 E						
	265°	27.2 NM	FL660 FL135 MEA = FL140		Even		± NM ACC Zurich {C}
△ Trasadingen DME (TRA)	47 41 22 N 008 26 13 E						
	245° 065°	34.1 NM	FL660 5500 ft MEA = 6000 ft		Even	Odd	± NM ACC Zurich {C, E}
△ Hochwald DME (HOC)	47 28 00 N 007 39 56 E						
From HOC to TRA northeastbound only available below FL195							

Route Designator		Route Remarks (Optional)						
Name of significant points		Significant point geographical coordinates						Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑				↓	↑		
M858								
△ Trasadingen DME (TRA)		47 41 22 N 008 26 13 E						
	$\frac{167^\circ}{347^\circ}$	14.5 NM	$\frac{FL165}{7500 ft}$ <i>MEA = 8000 ft</i>		Odd	Even	± NM	ACC Zurich {C}
△ RISLI		47 27 11 N 008 30 27 E						
	$\frac{167^\circ}{347^\circ}$	11.3 NM	$\frac{FL165}{7500 ft}$ <i>MEA = 8000 ft</i>		Odd	Even	± NM	ACC Zurich {C}
△ BARIG		47 16 07 N 008 33 40 E						
	$\frac{167^\circ}{347^\circ}$	2.0 NM	$\frac{FL165}{8500 ft}$ <i>MEA = 9000 ft</i>		Odd	Even	± NM	ACC Zurich {C}
△ ASGED		47 14 09 N 008 34 14 E						
	$\frac{167^\circ}{347^\circ}$	7.3 NM	$\frac{FL165}{8500 ft}$ <i>MEA = 9000 ft</i>		Odd	Even	± NM	ACC Zurich {C}
△ AGERI		47 07 02 N 008 36 18 E						
	$\frac{167^\circ}{347^\circ}$	7.0 NM	$\frac{FL165}{8500 ft}$ <i>MEA = 9000 ft</i>		Odd	Even	± NM	ACC Zurich {C}
△ URNAS		47 00 08 N 008 38 18 E						
	$\frac{167^\circ}{347^\circ}$	25.5 NM	$\frac{FL165}{13500 ft}$ <i>MEA = 14000 ft</i>		Odd	Even	± NM	ACC Zurich {C}
△ LUKOM		46 35 06 N 008 45 31 E						
	$\frac{166^\circ}{347^\circ}$	25.6 NM	$\frac{FL165}{13500 ft}$ <i>MEA = 14000 ft</i>		Odd	Even	± NM	ACC Zurich {C}
△ CANNE		46 10 00 N 008 52 52 E						

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑	(COP)	MEA	MOCA	↓	↑		
N491								
△ AMRUP	47 46 45 N 008 04 37 E							
	109°	15.5 NM	FL660 8000 ft MEA = 8000 ft		Odd		± NM	ACC Zurich REF: AIP Germany {C, E}
△ Trasadingen DME (TRA)	47 41 22 N 008 26 13 E							
	111°	16.5 NM	FL660 8500 ft MEA = 9000 ft		Odd		± NM	ACC Zurich {C}
Zurich East △ DVOR/DME (ZUE)	47 35 32 N 008 49 04 E							
	123°	19.0 NM	FL660 8500 ft MEA = 9000 ft		Odd		± NM	ACC Zurich {C}
△ DEGES	47 24 45 N 009 12 07 E							

Route Designator		Route Remarks (Optional)						
Name of significant points		Significant point geographical coordinates						Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑		MEA		↓	↑		
N850								
△ Trasadingen DME (TRA)		47 41 22 N 008 26 13 E						
	174°	25.9 NM	FL660 9000 ft MEA = 14000 ft		Odd		± NM	ACC Zurich {C}
△ RIPUS		47 15 37 N 008 30 00 E						
	174°	13.3 NM	FL660 9000 ft MEA = 14000 ft		Odd		± NM	ACC Zurich {C}
△ GERSA		47 02 22 N 008 31 56 E						
	174°	26.1 NM	FL660 13000 ft MEA = 14000 ft		Odd		± NM	ACC Zurich {C}
△ SOSON		46 36 24 N 008 35 39 E						
	174°	10.3 NM	FL660 13000 ft MEA = 14000 ft		Odd		± NM	ACC Zurich {C}
△ DEGAD		46 26 10 N 008 37 06 E						
	174°	19.6 NM	FL660 13000 ft MEA = 14000 ft		Odd		± NM	ACC Zurich {C}
FIR BDRY		46 06 41 N 008 39 50 E						
	174°	0.4 NM	FL660 13000 ft MEA = 14000 ft		Odd		± NM	ACC Milan
△ ODINA		46 06 16 N 008 39 54 E						

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑	(COP)	MEA	MOCA	↓	↑		
N851								
△ ABESI	46 09 35 N 009 02 34 E							
	354°	15.1 NM	FL660 13000 ft MEA = 14000 ft		Even		± NM	ACC Zurich {C}
△ UTAVO	46 24 38 N 009 00 33 E							
	354°	11.7 NM	FL660 13000 ft MEA = 14000 ft		Even		± NM	ACC Zurich {C}
△ PIXOS	46 36 19 N 008 58 59 E							
	354°	17.1 NM	FL660 13000 ft MEA = 14000 ft		Even		± NM	ACC Zurich {C}
△ SOPER	46 53 22 N 008 56 40 E							
	354°	16.1 NM	FL660 8500 ft MEA = 9000 ft		Even		± NM	ACC Zurich {C}
△ ELMUR	47 09 24 N 008 54 27 E							
	354°	8.0 NM	FL660 8500 ft MEA = 9000 ft		Even		± NM	ACC Zurich {C}
△ ROLSA	47 17 23 N 008 53 21 E							
	018°	9.6 NM	FL660 8500 ft MEA = 9000 ft		Even		± NM	ACC Zurich {C}
△ KUDIS	47 26 28 N 008 58 01 E							
	018° 198°	17.3 NM	FL660 8500 ft MEA = 9000 ft		Even	Odd	± NM	ACC Zurich {C}
△ ROMIR	47 42 47 N 009 06 28 E							
	005° 185°	4.7 NM	FL660 8500 ft MEA = 9000 ft		Even	Odd	± NM	ACC Zurich {C}
△ VEDOK (FIR BDRY)	47 47 24 N 009 07 14 E							
ABESI - KUDIS: CDR 1 H24 By ATC: Alternative route via Z651 and Z138 From VEDOK to KUDIS southbound only available below FL 195								

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑				↓	↑		
N869								
△ NATOR	48 10 12 N 008 19 17 E							
	206°	59.0 NM	FL660 FL105 MEA = FL110		Odd		± NM	UAC Karlsruhe ACC Zurich {C}
△ OLBEN	47 18 16 N 007 37 46 E							
	232°	13.5 NM	FL660 FL105 MEA = FL110		Odd		± NM	ACC Zurich {C, E}
△ LUTIX	47 09 54 N 007 22 14 E							
	232°	10.4 NM	FL660 FL105 MEA = FL110		Odd		± NM	ACC Geneva {C, E}
△ BENOT	47 03 28 N 007 10 22 E							
	232°	14.0 NM	FL660 FL095 MEA = FL100		Odd		± NM	ACC Geneva {C, E}
△ NEMOS	46 54 43 N 006 54 24 E							
	232°	17.6 NM	FL660 FL095 MEA = FL100		Odd		± NM	ACC Geneva {C, E}
△ VEROX	46 43 39 N 006 34 24 E							
	227°	38 NM	FL500 FL095 MEA = FL100		Odd		± NM	ACC Geneva {C, E}
△ MILPA	46 18 09 N 005 52 47 E							
OLBEN - MILPA: CDR 1 H24 By ATC: Alternative route via N850 - TRA - Z669								

Route Designator	Route Remarks (Optional)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑	(COP)	MEA	MOCA	↓	↑	
N871							
▲ MOLUS	46 26 38 N 006 40 46 E						
	052°	10.9 NM	FL500 FL095 MEA = FL100		Even		± NM ACC Geneva {C, E}
△ SOSAL	46 33 29 N 006 53 04 E						
	052°	20.5 NM	FL660 FL095 MEA = FL100		Even		± NM ACC Geneva {C, E}
△ TELNO	46 46 19 N 007 16 15 E						
	052°	7.6 NM	FL660 FL095 MEA = FL100		Even		± NM ACC Geneva {C, E}
△ KORED	46 51 02 N 007 24 51 E						
	052°	14.0 NM	FL660 FL095 MEA = FL100		Even		± NM ACC Zurich {C, E}
△ KONOL	46 59 43 N 007 40 51 E						
	052°	13.6 NM	FL660 FL095 MEA = FL100		Even		± NM ACC Zurich {C, E}
△ BERSU	47 08 08 N 007 56 29 E						
	058°	3.4 NM	FL660 FL135 MEA = FL140		Even		± NM ACC Zurich {C}
△ SUREP	47 09 55 N 008 00 39 E						
	058°	15.5 NM	FL660 FL135 MEA = FL140		Even		± NM ACC Zurich {C}
△ DITON	47 18 08 N 008 20 00 E						
	078°	36.0 NM	FL660 FL135 MEA = FL140		Odd		± NM ACC Zurich {C, E}
△ DEGES	47 24 45 N 009 12 07 E						
	090°	18.3 NM	FL660 10500 ft MEA = 11000 ft		Odd		± NM ACC Zurich {C}
△ GAMSA	47 24 30 N 009 39 07 E						

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑		MEA		↓	↑		
T14								
△ LASUN	47 24 51 N 007 32 15 E							
	266°	15.6 NM	FL500 FL095 MEA = FL100		Even		± NM	ACC Zurich {C, E}
△ LUMEL	47 24 26 N 007 09 14 E							
	265°	9.5 NM	FL500 FL095 MEA = FL100		Even		± NM	ACC Zurich {C, E}
△ ARNOT	47 24 08 N 006 55 12 E							

Route Designator	Route Remarks (Optional)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑	
T45							
△ VENAT	46 14 39 N 006 35 48 E						
	031°	22 NM	FL500 FL125 MEA = FL130		Even		± NM ACC Geneva REF: AIP France {C}
△ SOSAL	46 33 29 N 006 53 04 E						

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑		MEA		↓	↑		
T50								
△ VEBIT	47 16 07 N 008 00 21 E							
	245°	12.4 NM	FL660 <u>6500 ft</u> MEA = 7000 ft		Odd		± NM	ACC Zurich {C, E}
△ ROTOS	47 11 24 N 007 43 31 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑	(COP)	MEA	MOCA	↓	↑		
T51								
△ VEBIT	47 16 07 N 008 00 21 E							
	292°	7.5 NM	FL660 6500 ft MEA = 7000 ft		Even		± NM	ACC Zurich {C, E}
△ DANZE	47 19 16 N 007 50 17 E							
	292°	13.5 NM	FL660 6500 ft MEA = 7000 ft		Even		± NM	ACC Zurich {C, E}
△ LASUN	47 24 51 N 007 32 15 E							
	284°	34 NM	FL195 FL115 MEA = FL120		Even		± NM	ACC Zurich APP Bâle ACC Reims {C,E}
△ Hericourt NDB (HR)	47 33 42 N 006 43 56 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑		
T52								
△ VEBIT	47 16 07 N 008 00 21 E							
	274°	29.7 NM	FL095 6500 ft MEA = 7000 ft		Even		± NM	ACC Zurich {C, E}
△ BALIR	47 18 30 N 007 16 53 E							
	319°	7.9 NM	FL095 6500 ft MEA = 7000 ft		Even		± NM	ACC Zurich {C, E}
△ LUMEL	47 24 26 N 007 09 14 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑		
T53								
△ VEBIT	47 16 07 N 008 00 21 E							
	090°	10.2 NM	FL660 <u>8500 ft</u> MEA = 7000 ft		Even		± NM	ACC Zurich {C, E}
△ OBEDU	47 15 29 N 008 15 18 E							
	091°	8.0 NM	FL660 <u>8500 ft</u> MEA = 9000 ft		Even		± NM	ACC Zurich {C, E}
△ OMIDO	47 14 58 N 008 27 03 E							
	150°	5.7 NM	FL660 <u>8500 ft</u> MEA = 9000 ft		Even		± NM	ACC Zurich {C, E}
△ ARTAG	47 09 52 N 008 30 50 E							
	171°	7.6 NM	FL660 <u>8500 ft</u> MEA = 9000 ft		Even		± NM	ACC Zurich {C, E}
△ GERSA	47 02 22 N 008 31 56 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑		
T103								
△ DITON	47 18 08 N 008 20 00 E							
	071°	27.1 NM	FL660 FL135 MEA = FL140		Odd		± NM	ACC Zurich {C}
△ KUDIS	47 26 28 N 008 58 01 E							
	071°	29.2 NM	FL660 8500 ft MEA = 9000 ft		Odd		± NM	ACC Zurich {C, E}
△ NUNRI	47 35 12 N 009 39 09 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑	(COP)	MEA	MOCA	↓	↑		
T125								
△ RAMOK	47 01 20 N 007 41 03 E							
	042°	13.1 NM	FL195 5500 ft MEA = 6000 ft		Even		± NM	APP Bern {C, E}
Willisau △ DVOR/DME (WIL)	47 10 42 N 007 54 21 E							
	020° 200°	12.4 NM	FL095 FL075 MEA = FL080		Even	Odd	± NM	APP Zurich {C, E}
△ EKTUM	47 22 08 N 008 01 28 E							
	053° 234°	24.9 NM	FL095 FL075 MEA = FL080		Even	Odd	± NM	APP Zurich {C, E}
△ ENONO	47 35 53 N 008 32 03 E							
	089° 269°	11.5 NM	FL095 FL075 MEA = FL080		Even	Odd	± NM	APP Zurich {C}
Zurich East △ VOR/DME (ZUE)	47 35 32 N 008 49 04 E							
	055° 235°	13.8 NM	FL660 5500 ft MEA = 6000 ft		Even	Odd	± NM	ACC/APP Zurich {C, E}
△ ROMIR	47 42 47 N 009 06 28 E							
WIL - ZUE: CDR 1 H24 By ATC: Alternative route via T625								

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑				↓	↑		
T163								
△ LUTIX	47 09 54 N 007 22 14 E							
	261°	14.6 NM	FL660 6500 ft MEA = 7000 ft			Even	± NM	ACC Zurich {C}
△ ROTOS	47 11 24 N 007 43 31 E							
	252°	25.8 NM	FL660 6500 ft MEA = 7000 ft			Even	± NM	ACC Zurich {C}
△ DITON	47 18 08 N 008 20 00 E							
	045°	26.3 NM	FL660 FL135 MEA = FL140			Even	± NM	ACC Zurich {C}
Zurich East △ DVOR/DME (ZUE)	47 35 32 N 008 49 04 E							
	012°	12.0 NM	FL660 FL245 MEA = FL250			Even	± NM	ACC Zurich {C}
△ SONOM (UIR BDRY)	47 47 03 N 008 53 46 E							

Route Designator	Route Remarks (Optional)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑	
T330							
△ MOLUS	46 26 38 N 006 40 46 E						
	333°	41 NM	FL500 FL125 MEA = FL130		Even		± NM ACC Geneva {C}
△ GILIR	47 03 48 N 006 14 21 E						

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑				↓	↑		
T544								
△ VEBIT	47 16 07 N 008 00 21 E							
	214°	6.8 NM	FL095 6500 ft MEA = 7000 ft		Odd		± NM	APP Zurich APP Bern {C, E}
Willisau △ DVOR/DME (WIL)	47 10 42 N 007 54 21 E							
	046° 227°	36.9 NM	FL095 7500 ft MEA = 8000 ft		Odd	Even	± NM	ACC Geneva {C, E} (2)
Fribourg VOR/ △ DME (FRI)	46 46 39 N 007 13 25 E							
(2) {D} within Bern TMA								

Route Designator	Route Remarks (Optional)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑	(COP)	MEA	MOCA	↓	↑	
T625							
△ ROMIR	47 42 47 N 009 06 28 E						
	$\frac{196^\circ}{016^\circ}$	24.0 NM	$\frac{FL095}{FL075}$ MEA = FL080		Odd	Even	± NM APP Zurich {C, D}
△ SUBEX	47 20 07 N 008 54 45 E						
	$\frac{254^\circ}{074^\circ}$	42.2 NM	$\frac{FL095}{FL075}$ MEA = FL080		Odd	Even	± NM APP Zurich {C, D, E}
Willisau △ DVOR/DME (WIL)	47 10 42 N 007 54 21 E						
	$\frac{266^\circ}{086^\circ}$	12.2 NM	$\frac{FL095}{7500 \text{ ft}}$ MEA = 8000 ft		Even	Odd	± NM ACC Zurich APP Bern {C, E}
△ OSKUP	48 10 07 N 007 36 33 E						
	$\frac{281^\circ}{101^\circ}$	20.8 NM	$\frac{FL095}{7500 \text{ ft}}$ MEA = 8000 ft		Even	Odd	± NM APP Bern {E}
△ DEKAM	47 14 24 N 007 06 46 E						
ROMIR - WIL: Only by ATC Alternative route for T125							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑		MEA		↓	↑		
T626								
▲ Hericourt NDB (HR)	47 33 42 N 006 43 56 E							
	129°	16 NM	FL195 FL085 MEA = FL090		Odd		± NM	ACC Reims / ACC Zurich REF: AIP France {C, D, E}
△ DOUCI	47 23 08 N 007 02 03 E							
	132°	19.1 NM	FL195 6500 ft MEA = 7000 ft		Odd		± NM	ACC Zurich / APP Bern {C, E}
△ LUTIX	47 09 54 N 007 22 14 E							
	087°	9.8 NM	FL195 6500 ft MEA = 7000 ft		Odd		± NM	ACC Zurich / APP Bern {C, E}
△ OSKUP	47 10 07 N 007 36 33 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑	(COP)	MEA	MOCA	↓	↑		
T627								
△ LUTIX	47 09 54 N 007 22 14 E							
	144°	4.4 NM	FL195 6000 ft MEA = 6000 ft		Odd		± NM	ACC Zurich / APP Bern {C, D, E}
△ KOPPI	47 06 15 N 007 25 55 E							
	201°	5.9 NM	FL195 7500 ft MEA = 8000 ft		Odd		± NM	ACC Zurich / APP Bern {C, D, E}
△ BIRKI	47 00 47 N 007 22 35 E							
	223°	4.9 NM	FL195 7500 ft MEA = 8000 ft		Odd		± NM	ACC Zurich / APP Bern {C, D, E}
△ ULMES	46 57 18 N 007 17 33 E							
LUTIX - ULMES: CDR 1 H24								

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑	(COP)	MEA	MOCA	↓	↑		
T718								
△ ELMUR	47 09 24 N 008 54 27 E							
	326°	37.3 NM	FL660 <u>8500 ft</u> MEA = 9000 ft		Even		± NM	ACC Zurich {C}
△ Trasadingen DME (TRA)	47 41 22 N 008 26 13 E							
	303°	24.3 NM	FL245 <u>8000 ft</u> MEA = 8000 ft		Even		± NM	ACC Zurich / ACC Langen REF: AIP Germany {C}
△ ALINE	47 55 28 N 007 56 47 E							

Route Designator	Route Remarks (Optional)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑	
T721							
△ RILAX	47 56 34 N 008 30 49 E						
	147°	24.4 NM	FL235 <u>6500 ft</u> MEA = 7000 ft		Odd		± NM ACC Zurich APP Zurich REF: AIP Germany {C, E}
Zurich East △ DVOR/DME (ZUE)	47 35 32 N 008 49 04 E						

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑		
T734								
△ RONIX	47 13 34 N 008 27 25 E							
	175°	27.8 NM	FL245 4500 ft MEA = 5000 ft			Odd	± NM	ACC Zurich {C, E}
△ Trasadingen DME (TRA)	47 41 22 N 008 26 13 E							
	066°	13.1 NM	FL660 6500 ft MEA = 7000 ft			Odd	± NM	ACC Zurich REF: AIP Germany {C, E}
△ SONGI	47 46 40 N 008 43 55 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑	(COP)	MEA	MOCA	↓	↑		
T901								
△ SUREP	47 09 55 N 008 00 39 E							
	097°	4.4 NM	FL195 2000 ft AGL MEA = 7000 ft			Even	± NM	{C, E}
Willisau △ DVOR/DME (WIL)	47 10 42 N 007 54 21 E							
	322° 142°	5.1 NM	FL195 2000 ft AGL MEA = 7000 ft		Odd	Even	± NM	{C, E}
△ NEMAG	47 14 53 N 007 50 06 E							
	254° 074°	4.5 NM	FL195 2000 ft AGL MEA = 7000 ft		Odd	Even	± NM	{C, E}
△ ARVAN	47 13 53 N 007 43 41 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑		
Y1								
△ MILPA	46 18 09 N 005 52 47 E							
	105°	11 NM	FL500 FL165 MEA = FL170		Odd		± NM	ACC Geneva REF: AIP France
△ Geneva DVOR/ DME (GVA)	46 15 14 N 006 07 56 E							
	105°	37 NM	FL500 FL165 MEA = FL170		Odd		± NM	ACC Geneva REF: AIP France
△ VALOR	46 03 35 N 006 58 26 E							

Route Designator	Route Remarks (Optional)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑	
Y3							
△ ELBEG	47 41 49 N 007 44 58 E						
	132°	16.5 NM	FL105 6500 ft MEA = 7000 ft		Odd		± NM APP Zurich REF: AIP Germany {C, D, E}
△ GIPOL	47 30 19 N 008 02 27 E						

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG ↓ ↑	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	↓	↑	Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
Y5								
△ BARIG	47 16 07 N 008 33 40 E							
	075° 256°	27.3 NM	FL165 7500 ft MEA = 8000 ft		Odd	Even	± NM	APP Zurich {C, E}
Willisau △ DVOR/DME (WIL)	47 10 42 N 007 54 21 E							
	062°	13.3 NM	FL195 5500 ft MEA = 6000 ft			Even	± NM	APP Bern {C, D, E}
△ MEBOX	47 05 10 N 007 36 33 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates							Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑	(COP)	MEA	MOCA	↓	↑		
Y51								
△ St-Prex VOR/ DME (SPR)	46 28 07 N 006 26 53 E							
	$\frac{009^\circ}{189^\circ}$	16.0 NM	$\frac{FL195}{7500\text{ ft}}$ MEA = 8000 ft		Even	Odd	± NM	ACC Geneva {C, E}
△ LORBU	46 43 46 N 006 31 44 E							
	$\frac{009^\circ}{189^\circ}$	11.0 NM	$\frac{FL195}{7500\text{ ft}}$ MEA = 8000 ft		Even	Odd	± NM	ACC Geneva {C, E}
△ FLORY	46 54 31 N 006 35 06 E							
	$\frac{036^\circ}{216^\circ}$	13.5 NM	$\frac{FL195}{7500\text{ ft}}$ MEA = 8000 ft		Even	Odd	± NM	ACC Geneva {C, E}
△ PALLU	47 05 00 N 006 47 36 E							
	$\frac{051^\circ}{231^\circ}$	16.1 NM	$\frac{FL195}{7500\text{ ft}}$ MEA = 8000 ft		Even	Odd	± NM	ACC Geneva {C, D, E}
△ DEKAM	47 14 24 N 007 06 46 E							
	$\frac{056^\circ}{236^\circ}$	8.0 NM	$\frac{FL195}{7500\text{ ft}}$ MEA = 8000 ft		Even	Odd	± NM	ACC Zurich {C, D, E}
△ BALIR	47 18 30 N 007 16 53 E							
	$\frac{056^\circ}{236^\circ}$	4.0 NM	$\frac{FL195}{7500\text{ ft}}$ MEA = 8000 ft		Even	Odd	± NM	ACC Zurich {C, D, E}
△ LEPLA	47 20 36 N 007 21 58 E							
	$\frac{056^\circ}{236^\circ}$	8.2 NM	$\frac{FL195}{FL105}$ MEA = FL110		Even	Odd	± NM	ACC Zurich {C, D}
△ LASUN	47 24 51 N 007 32 15 E							
	$\frac{056^\circ}{236^\circ}$	6.1 NM	$\frac{FL195}{FL105}$ MEA = FL110		Even	Odd	± NM	ACC Zurich {C, D}
△ Hochwald DME (HOC)	47 28 00 N 007 39 56 E							
SPR - BALIR: CDR 1 H24								

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑		MEA		↓	↑		
Y52								
△ GOLEB	46 03 06 N 006 33 45 E							
	303°	4 NM	FL265 <u>13500 ft</u> MEA = FL140		Odd		± NM	ACC Geneva {D}
△ VALBU	46 05 10 N 006 29 23 E							
	303°	7 NM	FL265 <u>10600 ft</u> MEA = FL110		Odd		± NM	ACC Geneva {C, D}
△ SUVEL	46 09 05 N 006 21 04 E							
	303°	5 NM	FL265 <u>10600 ft</u> MEA = FL110		Odd		± NM	ACC Geneva {C, D}
△ BIVLO	46 11 50 N 006 15 14 E							
	226°	11 NM	FL265 <u>8500 ft</u> MEA = FL090		Odd		± NM	ACC Geneva {C}
△ SALEV	46 04 26 N 006 03 57 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑	(COP)	MEA	MOCA	↓	↑		
Y58								
△ NEMOS	46 54 43 N 006 54 24 E							
	202°	16.5 NM	FL265 9500 ft MEA = FL100		Odd		± NM	ACC Geneva {C, E}
△ VADAR	46 39 26 N 006 45 13 E							
	227°	17.0 NM	FL265 9500 ft MEA = FL100		Odd		± NM	ACC Geneva {C, E}
△ St-Prex VOR/ DME (SPR)	46 28 07 N 006 26 53 E							
	224°	18 NM	FL265 7800 ft MEA = FL080		Odd		± NM	ACC Geneva {C}
△ Geneva DVOR/ DME (GVA)	46 15 14 N 006 07 56 E							
	192°	11 NM	FL265 7800 ft MEA = FL080		Odd		± NM	ACC Geneva {C}
△ SALEV	46 04 26 N 006 03 57 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑		MEA		↓	↑		
Y100								
△ UMTEX	47 50 15 N 009 37 27 E							
	257°	48.9 NM	FL660 <u>6000 ft</u> MEA = 6000 ft		Even		± NM	UAC Karlsruhe ACC Munchen ACC Zurich {C}
△ Trasadingen DME (TRA)	47 41 22 N 008 26 13 E							
	212°	37.5 NM	FL245 <u>6500 ft</u> MEA = 7000 ft		Odd		± NM	ACC Zurich APP Zurich {C}
Willisau △ DVOR/DME (WIL)	47 10 42 N 007 54 21 E							

Route Designator	Route Remarks (Optional)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑	
Y112							
△ RAVED	47 43 45 N 009 40 10 E						
	257°	82.9 NM	FL660 FL245		Even		± NM ACC Zurich REF: AIP Germany
△ Hochwald DME (HOC)	47 28 00 N 007 39 56 E						

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑		MEA		↓	↑		
Y164								
△ MOPAN	48 14 47 N 008 09 16 E							
	201°	60.4 NM	FL660 FL135 MEA = FL140		Odd		± NM	ACC Zurich REF: AIP Germany {C}
△ OLBEN	47 18 16 N 007 37 46 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑	(COP)	MEA	MOCA	↓	↑		
Y170								
△ ABREG (FIR BDRY)	46 18 25 N 009 33 05 E							
	346°	45.8 NM	FL660 <u>13500 ft</u> MEA = 14000 ft		Even		± NM	ACC Zurich {C, E}
△ ARGAX	47 03 00 N 009 17 53 E							
	348°	40.6 NM	FL660 <u>11500 ft</u> MEA = 12000 ft		Even		± NM	ACC Zurich {C, E}
△ ROMIR	47 42 47 N 009 06 28 E							
ABREG - ROMIR: CDR 1 H24								

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑		MEA		↓	↑		
Y223								
△ VENAT	46 14 39 N 006 35 48 E							
	122°	19 NM	FL500 FL165 MEA = FL170		Even		± NM	ACC Geneva {C}
△ VALOR	46 03 35 N 006 58 26 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑		
Y224								
△ MOBLO	45 48 35 N 006 43 22 E							
	032°	18 NM	FL500 <u>17500 ft</u> MEA = 18000 ft		Even		± NM	ACC Geneva {C}
△ VALOR	46 03 35 N 006 58 26 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑		MEA		↓	↑		
Z1								
△ DEGES	47 24 45 N 009 12 07 E							
	059°	9.5 NM	FL660 7500 ft MEA = 8000 ft		Even		± NM	ACC Zurich {C, E}
△ ROMGA	47 29 26 N 009 24 13 E							
	017°	6.1 NM	FL660 7500 ft MEA = 8000 ft		Even		± NM	ACC Zurich {C, E}
△ BODAN	47 35 15 N 009 27 05 E							

Route Designator	Route Remarks (Optional)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑	
Z2							
△ DEGES	47 24 45 N 009 12 07 E						
	076°	16.6 NM	FL660 9500 ft <i>MEA = 10000 ft</i>		Odd	± NM	ACC Zurich {C, E}
△ DORAP (FIR BDRY)	47 28 22 N 009 36 04 E						

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑		MEA		↓	↑		
Z6								
△ DEGES	47 24 45 N 009 12 07 E							
	059°	21.1 NM	FL660 <u>7500 ft</u> MEA = 8000 ft		Odd		± NM	REF: AIP Germany ACC Zurich {C, E}
△ NUNRI	47 35 12 N 009 39 09 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑	(COP)	MEA	MOCA	↓	↑		
Z50								
△ OLBEN	47 18 16 N 007 37 46 E							
	148°	7.9 NM	FL285 6500 ft MEA = 7000 ft		Odd		± NM	ACC Zurich {C, E}
△ ROTOS	47 11 24 N 007 43 31 E							
	108°	9.4 NM	FL285 7500 ft MEA = 8000 ft		Odd		± NM	ACC Zurich {C, E}
△ BERSU	47 08 08 N 007 56 29 E							
	101°	19.9 NM	FL285 11500 ft MEA = 12000 ft		Odd		± NM	ACC Zurich {C, D, E}
△ URIGI	47 03 32 N 008 24 49 E							
	102°	5.0 NM	FL285 11500 ft MEA = 12000 ft		Odd		± NM	ACC Zurich {C, E}
△ GERSA	47 02 22 N 008 31 56 E							
	116°	10.7 NM	FL660 13500 ft MEA = 14000 ft		Odd		± NM	ACC Zurich {C}
△ KELIP	46 57 22 N 008 45 42 E							
	116° 296°	8.5 NM	FL660 13500 ft MEA = 14000 ft		Odd	Even	± NM	ACC Zurich {C}
△ SOPER	46 53 22 N 008 56 40 E							
	116° 297°	36.7 NM	FL660 15500 ft MEA = 16000 ft		Odd	Even	± NM	ACC Zurich {C}
△ PELAD	46 35 56 N 009 43 33 E							
	117° 297°	15.0 NM	FL660 15500 ft MEA = 16000 ft		Odd	Even	± NM	ACC Zurich {C}
△ RESIA (FIR/UIR BDRY)	46 28 42 N 010 02 36 E							
BERSU - GERSA: CDR 1 H24 KELIP - RESIA: CDR 1 H24								

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑		
Z57								
△ LAMUR	46 34 47 N 007 13 53 E							
	040°	16.3 NM	FL660 FL155 MEA = FL160		Even		± NM	ACC Geneva {C}
△ GUDAX	46 47 05 N 007 29 25 E							
	051°	27.6 NM	FL660 FL115 MEA = FL120		Even		± NM	ACC Zurich {C}
△ DOPIL	47 04 12 N 008 01 00 E							
LAMUR - DOPIL: CDR 1 H24								

Route Designator	Route Remarks (Optional)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑	
Z58							
△ BERSU	47 08 08 N 007 56 29 E						
	030°	38.9 NM	FL660 7500 ft MEA = 8000 ft		Even	± NM	ACC Zurich {C}
△ Trasadingen DME (TRA)	47 41 22 N 008 26 13 E						

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑		MEA		↓	↑		
Z59								
△ KONOL	46 59 43 N 007 40 51 E							
	316°	24.9 NM	FL195 <u>6500 ft</u> MEA = 7000 ft		Even		± NM	ACC Zurich {C, E}
△ BALIR	47 18 30 N 007 16 53 E							
	316°	7.9 NM	FL195 <u>6500 ft</u> MEA = 7000 ft		Even		± NM	ACC Zurich {C, E}
△ LUMEL	47 24 26 N 007 09 14 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑		
Z60								
△ AMRID	46 56 05 N 007 19 33 E							
	202°	10.3 NM	FL195 7500 ft MEA = 8000 ft		Odd		± NM	ACC Geneva {C, D, E}
△ Fribourg VOR/ DME (FRI)	46 46 39 N 007 13 25 E							
	248°	20.7 NM	FL660 7600 ft MEA = 8000 ft		Even		± NM	ACC Geneva {C, E}
△ VADAR	46 39 26 N 006 45 13 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑		
Z61								
△ SOSAL	46 33 29 N 006 53 04 E							
	047°	19.2 NM	FL660 <u>7500 ft</u> MEA = 8000 ft		Even		± NM	ACC Geneva {C, E}
△ Fribourg VOR/ DME (FRI)	46 46 39 N 007 13 25 E							

Route Designator	Route Remarks (Optional)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑	
Z62							
△ DEREM	46 21 24 N 006 10 34 E						
	087°	5 NM	FL195 7000 ft MEA = 8000 ft		Odd		± NM ACC Geneva {C}
△ NAMEL	46 21 28 N 006 17 00 E						
	087°	10 NM	FL195 FL095 MEA = FL100		Odd		± NM ACC Geneva {C, E}
△ TINAM	46 21 36 N 006 31 50 E						
	049°	8 NM	FL195 FL095 MEA = FL100		Odd		± NM ACC Geneva {C, E}
△ MOLUS	46 26 38 N 006 40 46 E						

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑		
Z63								
△ KONIL	46 34 06 N 006 27 30 E							
	092°	17.7 NM	FL500 <u>7500 ft</u> MEA = 8000 ft		Odd		± NM	ACC Geneva {C, E}
△ SOSAL	46 33 29 N 006 53 04 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑		
Z64								
△ LIRKO	46 34 15 N 005 48 52 E							
	100°	27 NM	FL500 FL115 MEA = FL120		Odd		± NM	ACC Geneva {C}
△ St-Prex VOR/ DME (SPR)	46 28 07 N 006 26 53 E							
	097° 277°	10 NM	FL500 FL095 MEA = FL100		Odd	Even	± NM	ACC Geneva {C}
△ MOLUS	46 26 38 N 006 40 46 E							

Route Designator		Route Remarks (Optional)						
Name of significant points		Significant point geographical coordinates						Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑				↓	↑		
Z65								
△ St-Prex VOR/ DME (SPR)		46 28 07 N 006 26 53 E						
	247° 067°	9.2 NM	FL500 6500 ft MEA = 7000 ft		Odd	Even	± NM	ACC Geneva {C}
△ Gland NDB (GLA)		46 24 31 N 006 14 39 E						
	247°	16 NM	FL500 7900 ft MEA = 8000 ft		Odd		± NM	ACC Geneva {C, E}
△ MILPA		46 18 09 N 005 52 47 E						

Route Designator	Route Remarks (Optional)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑	
Z67							
△ VENAT	46 14 39 N 006 35 48 E						
	053°	33 NM	FL500 FL155 MEA = FL160		Even		± NM ACC Geneva REF: AIP France {C}
△ LAMUR	46 34 47 N 007 13 53 E						
	025°	17.9 NM	FL500 FL155 MEA = FL160		Even		± NM ACC Geneva {C}
△ KORED	46 51 02 N 007 24 51 E						
VENAT - KORED: CDR 1 H24							

Route Designator		Route Remarks (Optional)						
Name of significant points		Significant point geographical coordinates						Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑		MEA		↓	↑		
Z69								
△ Trasadingen DME (TRA)		47 41 22 N 008 26 13 E						
	235°	40.2 NM	FL660 FL135 MEA = FL140		Odd		± NM	ACC Zurich {C}
△ OLBEN		47 18 16 N 007 37 46 E						
TRA - OLBEN: CDR 1 H24 By ATC: Alternative route via Z669								

Route Designator	Route Remarks (Optional)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑	(COP)	MEA	MOCA	↓	↑	
Z83							
△ DETRI	46 36 22 N 008 48 54 E						
	110° 291°	20.5 NM	FL195 15000 ft MEA = 16000 ft		Odd	Even	± NM ACC Zurich {C}
△ ULGOD	46 28 55 N 009 16 31 E						
	102° 282°	7.9 NM	FL195 FL155 MEA = FL160		Odd	Even	± NM ACC Zurich {C}
△ ROSGO	46 27 10 N 009 27 41 E						
	075° 255°	13.1 NM	FL195 15000 ft MEA = 16000 ft		Odd	Even	± NM ACC Zurich {C}
△ GUGSA	46 30 23 N 009 46 00 E						
DETRI - GUGSA: Only by ATC							

Route Designator		Route Remarks (Optional)						
Name of significant points		Significant point geographical coordinates						Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑		MEA		↓	↑		
Z90								
△ Hochwald DME (HOC)		47 28 00 N 007 39 56 E						
	147° 328°	19.9 NM	FL095 6500 ft MEA = 7000 ft		Odd	Even	± NM	ACC Zurich {D, E}
Willisau △ DVOR/DME (WIL)		47 10 42 N 007 54 21 E						

Route Designator	Route Remarks (Optional)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑	(COP)	MEA	MOCA	↓	↑	
Z119							
△ SOSON	46 36 24 N 008 35 39 E						
	$\frac{089^\circ}{269^\circ}$	9.1 NM	$\frac{FL245}{15000\text{ ft}}$ MEA = 16000 ft		Odd	Even	± NM ACC Zurich {C}
△ DETRI	46 36 22 N 008 48 54 E						
	$\frac{089^\circ}{269^\circ}$	6.9 NM	$\frac{FL245}{15000\text{ ft}}$ MEA = 16000 ft		Odd	Even	± NM ACC Zurich {C}
△ PIXOS	46 36 19 N 008 58 59 E						
	$\frac{089^\circ}{269^\circ}$	30.7 NM	$\frac{FL245}{15000\text{ ft}}$ MEA = 16000 ft		Odd	Even	± NM ACC Zurich {C}
△ PELAD	46 35 56 N 009 43 33 E						
	$\frac{063^\circ}{243^\circ}$	18.5 NM	$\frac{FL245}{15000\text{ ft}}$ MEA = 16000 ft		Odd	Even	± NM ACC Zurich {C}
△ ARDED	46 44 07 N 010 07 40 E						
	$\frac{063^\circ}{243^\circ}$	6.0 NM	$\frac{FL245}{15000\text{ ft}}$ MEA = 16000 ft		Odd	Even	± NM ACC Zurich {C}
△ RONAG	46 46 46 N 010 15 32 E						
	$\frac{359^\circ}{179^\circ}$	21.5 NM	$\frac{FL245}{15800\text{ ft}}$ MEA = 16000 ft		Odd	Even	± NM ACC Zurich / ACC Munich REF: AIP Austria {C}
△ KUSAM	47 08 14 N 010 16 55 E						
DETRI - KUSAM: CDR 1 H24							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑		MEA		↓	↑		
Z138								
△ KESEX	47 14 05 N 008 43 00 E							
	038°	16.1 NM	FL660 8500 ft MEA = 9000 ft		Even		± NM	ACC Zurich {C}
△ KUDIS	47 26 28 N 008 58 01 E							
	099°	9.7 NM	FL660 8500 ft MEA = 9000 ft		Odd		± NM	ACC Zurich {C}
△ DEGES	47 24 45 N 009 12 07 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑		
Z141								
△ MEBOX	47 05 10 N 007 36 33 E							
	075°	13.9 NM	FL195 5500 ft MEA = 6000 ft		Even		± NM	ACC Zurich above FL 105 APP Bern below FL 105 {C, E}
△ BERSU	47 08 08 N 007 56 29 E							
	005°	39.0 NM	FL195 6500 ft MEA = 7000 ft		Even		± NM	ACC Zurich REF: AIP Germany {C, E}
△ AMRUP	47 46 45 N 008 04 37 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑		MEA		↓	↑		
Z142								
△ RAMOK	47 01 20 N 007 41 03 E							
	320°	4.9 NM	FL195 <u>5200 ft</u> MEA = 6000 ft		Even		± NM	ACC Zurich above FL105 APP Bern below FL105 {C, E}
△ MEBOX	47 05 10 N 007 36 33 E							
	314°	18.9 NM	FL195 <u>5900 ft</u> MEA = 7000 ft		Even		± NM	ACC Zurich above FL105 APP Bern below FL105 {C, E}
△ BALIR	47 18 30 N 007 16 53 E							

Route Designator	Route Remarks (Optional)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑	
Z143							
△ RAMOK	47 01 20 N 007 41 03 E						
	056°	12.5 NM	FL195 5700 ft MEA = 6000 ft		Even		± NM ACC Zurich above FL105 APP Bern below FL105 {C, E}
△ BERSU	47 08 08 N 007 56 29 E						

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑		
Z144								
△ AMRID	46 56 05 N 007 19 33 E							
	237°	15.1 NM	FL195 <u>6300 ft</u> MEA = 8000 ft		Odd		± NM	ACC Geneva {C, E}
△ ESEVA	46 48 08 N 007 00 53 E							

Route Designator	Route Remarks (Optional)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑	
Z162							
△ ROLSA	47 17 23 N 008 53 21 E						
	350°	18.4 NM	FL660 8500 ft MEA = 9000 ft		Even		± NM ACC Zurich {C}
Zurich East △ DVOR/DME (ZUE)	47 35 32 N 008 49 04 E						

Route Designator		Route Remarks (Optional)						
Name of significant points		Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑		MEA		↓	↑		
Z163								
Zurich East △ DVOR/DME (ZUE)		47 35 32 N 008 49 04 E						
	091°	25.7 NM	FL660 <u>8500 ft</u> MEA = 9000 ft		Odd		± NM	ACC Zurich {C, E}
△ BODAN		47 35 15 N 009 27 05 E						

Route Designator	Route Remarks (Optional)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑	(COP)	MEA	MOCA	↓	↑	
Z170							
△ ARGAX	47 03 00 N 009 17 53 E						
	329°	27.1 NM	FL660 10000 ft MEA = 11000 ft		Even		± NM ACC Zurich {C, E}
△ KUDIS	47 26 28 N 008 58 01 E						
	351°	20.8 NM	FL660 FL245 MEA = FL250		Even		± NM ACC Zurich {C}
△ SONOM (UIR BDRY)	47 47 03 N 008 53 46 E						
ARGAX - KUDIS: CDR 1 H24							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑		MEA		↓	↑		
Z408								
△ TIRUL	47 03 26 N 010 31 43 E							
	211°	20.0 NM	FL195 <u>15800 ft</u> MEA = 16000 ft		Odd		± NM	ACC Munich / ACC Zurich REF: AIP Austria {C}
△ RONAG	46 46 46 N 010 15 32 E							
TIRUL - RONAG: CDR 1 H24								

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑	(COP)	MEA	MOCA	↓	↑		
Z424								
△ DEGAD	46 26 10 N 008 37 06 E							
	211° 031°	11.5 NM	FL660 FL175 MEA = FL180		Odd		± NM	ACC Zurich {C}
△ BASGO	46 16 23 N 008 28 20 E							
	173° 353°	9.8 NM	FL305 FL175 MEA = FL180		Odd		± NM	ACC Zurich ACC Milano REF: AIP Italy
▲ AKASU	46 06 35 N 008 29 44 E							

Route Designator		Route Remarks (Optional)						
Name of significant points		Significant point geographical coordinates						Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑				↓	↑		
Z600								
Willisau △ DVOR/DME (WIL)		47 10 42 N 007 54 21 E						
	$\frac{111^\circ}{291^\circ}$	24.2 NM	$\frac{FL195}{2000 \text{ ft AGL}}$ MEA = 7000 ft		Even	Odd	± NM	{C, E}
△ LEPLA		47 20 36 N 007 21 58 E						
	$\frac{111^\circ}{291^\circ}$	9.5 NM	$\frac{FL195}{2000 \text{ ft AGL}}$ MEA = 7000 ft		Even	Odd	± NM	{C, E}
△ LUMEL		47 24 26 N 007 09 14 E						
	$\frac{116^\circ}{296^\circ}$	20 NM	$\frac{FL195}{FL085}$ MEA = FL090		Even	Odd	± NM	ACC Reims / APP Bâle / ACC Zurich / REF: AIP France {C, D, E}
▲ Hericourt NDB (HR)		47 33 42 N 006 43 56 E						

Route Designator	Route Remarks (Optional)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑	(COP)	MEA	MOCA	↓	↑	
Z601							
△ ROTOS	47 11 24 N 007 43 31 E						
	$\frac{092^\circ}{272^\circ}$	7.4 NM	$\frac{FL195}{7500 \text{ ft}}$ MEA = 8000 ft		Even	Odd	± NM APP Bern ACC Zurich {C, E}
Willisau △ DVOR/DME (WIL)	47 10 42 N 007 54 21 E						
	$\frac{013^\circ}{193^\circ}$	20.4 NM	$\frac{FL095}{7500 \text{ ft}}$ MEA = 8000 ft		Odd	Even	± NM APP Bern ACC Zurich {C, E}
△ GIPOL	47 30 19 N 008 02 27 E						
	$\frac{052^\circ}{233^\circ}$	19.5 NM	$\frac{FL095}{7500 \text{ ft}}$ MEA = 8000 ft		Odd	Even	± NM ACC Zurich {C}
△ Trasadingen DME (TRA)	47 41 22 N 008 26 13 E						
	$\frac{108^\circ}{288^\circ}$	16.5 NM	$\frac{FL095}{5500 \text{ ft}}$ MEA = 6000 ft		Odd	Even	± NM APP Zurich {C}
Zurich East △ DVOR/DME (ZUE)	47 35 32 N 008 49 04 E						
	$\frac{087^\circ}{268^\circ}$	25.7 NM	$\frac{FL095}{5500 \text{ ft}}$ MEA = 6000 ft		Odd	Even	± NM APP Zurich {C, E}
△ BODAN (FIR BDRY)	47 35 15 N 009 27 05 E						

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑				↓	↑		
Z651								
△ CANNE	46 10 00 N 008 52 52 E							
	354°	26.5 NM	FL660 <u>13500 ft</u> MEA = 14000 ft		Even		± NM	ACC Zurich {C}
△ DETRI	46 36 22 N 008 48 54 E							
	354°	21.1 NM	FL660 <u>13500 ft</u> MEA = 14000 ft		Even		± NM	ACC Zurich {C}
△ KELIP	46 57 22 N 008 45 42 E							
	354°	6.8 NM	FL660 <u>13500 ft</u> MEA = 14000 ft		Even		± NM	ACC Zurich {C}
△ MOSIT	47 04 09 N 008 44 38 E							
	354°	8.2 NM	FL660 <u>8500 ft</u> MEA = 9000 ft		Even		± NM	ACC Zurich {C}
△ MANEG	47 12 15 N 008 43 20 E							
	354°	1.9 NM	FL660 <u>8500 ft</u> MEA = 9000 ft		Even		± NM	ACC Zurich {C}
△ KESEX	47 14 05 N 008 43 00 E							
	010°	21.8 NM	FL660 <u>8500 ft</u> MEA = 9000 ft		Even		± NM	ACC Zurich {C}
Zurich East △ DVOR/DME (ZUE)	47 35 32 N 008 49 04 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑	(COP)	MEA	MOCA	↓	↑		
Z652								
△ KESEX	47 14 05 N 008 43 00 E							
	333°	29.6 NM	FL660 8500 ft MEA = 9000 ft		Even		± NM	ACC Zurich {C, E}
△ Trasadingen DME (TRA)	47 41 22 N 008 26 13 E							
	338°	35.3 NM	FL245 7500 ft MEA = 8000 ft		Even		± NM	ACC Zurich {C, E}
△ MOPAN	48 14 47 N 008 09 16 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑		MEA		↓	↑		
Z653								
△ KESEX	47 14 05 N 008 43 00 E							
	064°	7.8 NM	FL660 9000 ft MEA = 9500 ft		Even		± NM	ACC Zurich {C, E}
△ ROLSA	47 17 23 N 008 53 21 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates						Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑	(COP)	MEA	MOCA	↓	↑		
Z669								
△ Trasadingen DME (TRA)	47 41 22 N 008 26 13 E							
	224°	41.7 NM	FL660 FL135 MEA = FL140		Odd		± NM	ACC Zurich {C}
△ ROTOS	47 11 24 N 007 43 31 E							
	232°	15.7 NM	FL660 FL095 MEA = FL100		Odd		± NM	ACC Zurich {C, E}
△ BADEP	47 01 38 N 007 25 28 E							
	232°	6.9 NM	FL660 FL095 MEA = FL100		Odd		± NM	ACC Zurich {C, E}
△ ULMES	46 57 18 N 007 17 33 E							
	232°	14.7 NM	FL660 FL095 MEA = FL100		Odd		± NM	ACC Geneva {C, E}
△ ESEVA	46 48 08 N 007 00 53 E							
	232°	13.8 NM	FL660 FL095 MEA = FL100		Odd		± NM	ACC Geneva {C, E}
△ VADAR	46 39 26 N 006 45 13 E							
	238°	42 NM	FL500 FL095 MEA = FL100		Odd		± NM	ACC Geneva {C, E}
△ MILPA	46 18 09 N 005 52 47 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks	
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits	Lateral limits MOCA	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑		MEA		↓	↑		
Z671								
△ DITON	47 18 08 N 008 20 00 E							
	091°	22.7 NM	FL660 <u>9000 ft</u> MEA = 9500 ft		Even		± NM	ACC Zurich {C, E}
△ ROLSA	47 17 23 N 008 53 21 E							

Route Designator	Route Remarks (Optional)							
Name of significant points	Significant point geographical coordinates							Significant Point Remarks
Route Segment Navigation, RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ — ↑	(COP)	MEA	MOCA	↓	↑		
UL613								
△ Hochwald DME (HOC)	47 28 00 N 007 39 56 E							
	102° 282°	6.6 NM	FL660 FL195		Even	Odd	± NM	ACC Zurich {C}
△ NATLI	47 29 31 N 007 30 26 E							

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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.

2. Index of ENR 3.3 Route Tables - Low Flight Network (LFN) ATS Routes

Route Designator	Page
KQ811	ENR 3.3 - 2
KQ821	ENR 3.3 - 3
KQ831	ENR 3.3 - 4
KQ832	ENR 3.3 - 5
KQ833	ENR 3.3 - 6
KQ834	ENR 3.3 - 7
KQ861	ENR 3.3 - 8
KQ862	ENR 3.3 - 9
KQ864	ENR 3.3 - 10
KQ868	ENR 3.3 - 11
KY251	ENR 3.3 - 12
KY252	ENR 3.3 - 14
KY253	ENR 3.3 - 16
KY256	ENR 3.3 - 17
KY257	ENR 3.3 - 18

3. Low Flight Network (LFN) ATS Routes

Route Designator	Route Remarks (Optional)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits	Lateral limits MOCA	↓	↑	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑		MEA		↓	↑	
KQ811							
△ LS103	46 43 11.2 N 006 57 39.1 E						
	274°	9.2	FL 195 5500 ft MEA = 6000 ft				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				Direction of cruising levels		Significant Point Remarks
Route Segment RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	↓	↑	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑						
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				Direction of cruising levels		Significant Point Remarks
Route Segment RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	↓	↑	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° 5	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				Direction of cruising levels		Significant Point Remarks
Route Segment RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	↓	↑	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑						
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				Direction of cruising levels		Significant Point Remarks
Route Segment RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	↓	↑	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				Direction of cruising levels		Significant Point Remarks
Route Segment RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	↓	↑	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				Direction of cruising levels		Significant Point Remarks
Route Segment RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	↓	↑	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> MEA = 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 <u>4500 ft</u> MEA = 5000 ft				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						
		$\frac{011^\circ}{191^\circ}$	4.0	FL 195 <u>5500 ft</u> MEA = 6000 ft	MOCA = 4141 ft	Even	Even	ACC Geneva {C, E}
△	LS562	46 50 32.0 N 007 14 49.4 E						
		$\frac{011^\circ}{191^\circ}$	3.0	FL 195 <u>4500 ft</u> 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						
		$\frac{040^\circ}{220^\circ}$	3.7	FL 195 <u>4500 ft</u> 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						
		$\frac{021^\circ}{201^\circ}$	5.1	FL 195 <u>4500 ft</u> 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						
		$\frac{062^\circ}{242^\circ}$	10.5	FL 195 <u>5500 ft</u> 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						
		$\frac{071^\circ}{251^\circ}$	8.9	FL 195 <u>5500 ft</u> 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				Direction of cruising levels		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				Direction of cruising levels		Significant Point Remarks
Route Segment RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	↓	↑	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
		↓ ↑					
KQ868							
△ RAMOK	47 01 20.2 N 007 41 03.0 E						
	039°	8.4	FL 195 <u>5500 ft</u> 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						

Route Designator	Route Remarks (Optional)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	↓	↑	Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑				↓	↑	
	$\frac{081^\circ}{261^\circ}$	4.3	FL 195 <u>4500 ft</u> MEA = 5000 ft	MOCA = 4095 ft	Odd	Odd	ACC Zurich {C, E}
△ OSNOG	47 11 42.5 N 008 37 36.1 E						
	$\frac{081^\circ}{261^\circ}$	6.9	FL 195 <u>4838 ft</u> MEA = 5000 ft	MOCA = 4838 ft	Odd	Odd	ACC Zurich {C, E}
△ LS110	47 12 26.8 N 008 47 38.1 E						
	$\frac{085^\circ}{265^\circ}$	6.4	FL 195 <u>4838 ft</u> MEA = 5000 ft	MOCA = 4838 ft	Odd	Odd	ACC Zurich {C, E}
△ LS111	47 12 41.6 N 008 57 01.1 E						
	$\frac{047^\circ}{228^\circ}$	10.6	FL 195 <u>5500 ft</u> MEA = 6000 ft	MOCA = 4973 ft	Even	Even	ACC Zurich {C, E}
△ LS112	47 19 25.5 N 009 09 02.0 E						
	$\frac{018^\circ}{198^\circ}$	5.7	FL 195 <u>5500 ft</u> MEA = 6000 ft	MOCA = 4973 ft	Even	Even	ACC Zurich {C, E}
△ DEGES	47 24 45.0 N 009 12 07.0 E						
	$\frac{040^\circ}{220^\circ}$	8.0	FL 195 <u>4500 ft</u> 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					Direction of cruising levels		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}
	↓ ↑				↓	↑	
	$\frac{137^\circ}{317^\circ}$	9.0	FL 195 <u>8500 ft</u> MEA = 9000 ft	MOCA = 8351 ft	Odd	Odd	ACC Zurich {C, E}
△ LS212	46 21 39.2 N 008 56 39.3 E						
	$\frac{151^\circ}{332^\circ}$	9.2	FL 195 <u>6982 ft</u> MEA = 7000 ft	MOCA = 6982 ft	Odd	Odd	ACC Zurich {C, E}
△ LS213	46 13 22.8 N 009 02 21.2 E						
	$\frac{209^\circ}{029^\circ}$	8.0	FL 195 <u>6500 ft</u> 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						
	$\frac{187^\circ}{007^\circ}$	6.4	FL 195 <u>5500 ft</u> 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				Direction of cruising levels		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						
		$\frac{217^\circ}{037^\circ}$	7.6	FL 195 <u>6500 ft</u> MEA = 7000 ft	MOCA = 5903 ft			ACC Zurich {C, E}
△	LS301	47 08 14.0 N 008 42 41.3 E						
		$\frac{217^\circ}{037^\circ}$	4.1	FL 195 <u>5500 ft</u> MEA = 6000 ft	MOCA = 4950 ft			ACC Zurich APP Zurich {C, E}
△	LS302	47 11 25.4 N 008 46 25.9 E						
		$\frac{217^\circ}{037^\circ}$	1.3	FL 195 <u>4500 ft</u> 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				Direction of cruising levels		Significant Point Remarks
Route Segment RCP/RSP specification	Track MAG	Geodesic Dist	Upper and Lower limits	Lateral limits	Direction of cruising levels		Remarks Controlling unit, operating channel, and logon address Navigation, RCP/RSP specification(s) limitations {Airspace Classification}
	↓ ↑	(COP)	MEA	MOCA	↓	↑	
KY256							
△ UMTOP	47 07 38.9 N 00749 06.2 E						
	$\frac{051^\circ}{231^\circ}$	12.3	FL 195 <u>4500 ft</u> MEA = 5000 ft				ACC Zurich {C, E}
△ LS601	47 15 04.1 N 008 03 26.0 E						
	$\frac{077^\circ}{257^\circ}$	4.6	FL 195 <u>4500 ft</u> MEA = 5000 ft				ACC Zurich {C, E}
△ LS602	47 15 56.6 N 008 10 06.8 E						
	$\frac{072^\circ}{252^\circ}$	4.8	FL 195 <u>4500 ft</u> MEA = 5000 ft				ACC Zurich {C, E}
△ LS603	47 17 16.4 N 008 16 48.8 E						
	$\frac{115^\circ}{295^\circ}$	8.1	FL 195 <u>4500 ft</u> MEA = 5000 ft	MOCA = 3744 ft			ACC Zurich {C, E}
△ RONIX	47 13 34.5 N 008 27 25.2 E						
	$\frac{129^\circ}{309^\circ}$	3.6	FL 195 <u>4500 ft</u> 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)						
Name of significant points	Significant point geographical coordinates				Direction of cruising levels		Significant Point Remarks
Route Segment RCP/RSP specification	Track MAG	Geodesic Dist (COP)	Upper and Lower limits MEA	Lateral limits MOCA	↓	↑	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 MEA = 5000 ft				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 MEA = 5000 ft				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 MEA = 5000 ft				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 MEA = 5000 ft				ACC Zurich {C, E}
△ OSNOG	47 11 42.5 N 008 37 36.1 E						

ENR 3.4 EN-ROUTE HOLDING

HLDG ID / FIX / WPT Coordinates	INBD TR (°MAG)	Direction of PTN	MAX IAS (KT)	MNM-MAX HLDG LVL FL / FT (MSL)	TIME (MIN) or DIST OUBD	Controlling unit and frequency
1	2	2	4	5	6	7
BALIR 47 18 30 N / 007 16 53 E	319	Right	210	7000 ft - FL 160	1	APP Bâle
BERSU 47 08 08 N / 007 56 29 E	049	Right	230	FL 100 - FL 200	1	ACC Zurich
GUGSA 46 30 23 N / 009 46 00 E	075	Right	240	16000 ft - FL 190	1.5	ACC Zurich
MOSIT 47 04 09 N / 008 44 38 E	351	Right	230	14000 ft - FL 200	1	ACC Zurich
PELAD 46 35 56 N / 009 43 33 E	115	Right	240	16000 ft - FL 245	1	ACC Zurich
RAVED 47 43 45 N / 009 40 10 E	265	Left	230	FL 120 - FL 310	1	ACC Zurich ACC Muenchen
RONAG 46 46 46 N / 010 15 32 E	146	Left	210	16000 ft - FL 190	1	ACC Zurich
RONIX 47 13 34.5 N / 008 27 25.2 E	216	Left	180	7000 ft - FL 90	1	ACC Zurich
TUNNO 46 47 53.4 N / 007 23 48.8 E	111	Left	150	6000 ft - FL 70	2 NM	APP Bern

HLDG RONAG is located partially outside controlled airspace

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ENR 4 RADIO NAVIGATION AIDS/SYSTEMS

ENR 4.1 RADIO NAVIGATION AIDS - EN-ROUTE

Name of station (VOR: VAR)	ID	Frequency (CH)	Hours of operation	Coordinates	ELEV DME antenna	Remarks
1	2	3	4	5	6	7
BÄLE-MULHOUSE DVOR/DME	-	-	-	-	-	REF: AIP France
CORVATSCH DME	CVA	(CH 57Y)	H24	46 25 05N 009 49 18E	10999 ft	DOC 80 NM / 50'000 ft. Paired VOR FREQ 112.05 MHz.
FRIBOURG VOR/DME (VAR 3° E)	FRI	110.85 MHz (CH 45Y)	H24	46 46 39.3N 007 13 24.6E	2659 ft	DOC 40 NM / 50'000 ft, range 100 NM in sector 195° - 255°. VOR FRI not usable between FRI and SPR (DME FRI is usable).
GENEVA DVOR/DME (VAR 2° E)	GVA	115.75 MHz (CH 104Y)	H24	46 15 14.1N 006 07 56.0E	1377 ft	PSN: 044°MAG, 563 m FM Genève THR 22. DOC 50 NM / 25'000 ft. FRA (I)
GLAND NDB	GLA	375 kHz	H24	46 24 31.3N 006 14 39.3E	-	PSN: 031°MAG, 11.6 NM FM Genève ARP. EM: NON / A2A. Service range 25 NM.
HOCHWALD DME	HOC	(CH 79X)	H24	47 27 59.6N 007 39 55.6E	2425 ft	DOC 60 NM / 50'000 ft, range 85 NM in sector 30° - 120°. Paired VOR FREQ 113.20 MHz. FRA (X): Even FL
LA PRAZ DME	LAP	(CH 43Y)	H24	46 40 34N 006 24 48E	4244 ft	DOC 80 NM / 50'000 ft, range 70 NM in sector 195° - 255°. Paired VOR FREQ 110.65 MHz.
PASSEIRY DVOR/DME (VAR 2° E)	PAS	116.60 MHz (CH 113X)	H24	46 09 49.3N 005 59 59.7E	1415 ft	PSN: 224°MAG, 5.5 NM FM Genève THR 04. DOC 80 NM / 50'000 ft.
ST-PREX VOR/DME (VAR 3° E)	SPR	113.90 MHz (CH 86X)	H24	46 28 07.3N 006 26 53.0E	1252 ft	PSN: 046°MAG, 18.7 NM FM Genève THR 22. DOC 100 NM / 50'000 ft.
TRASADINGEN DME	TRA	(CH 90X)	H24	47 41 22.2 N 008 26 13.1E	1850 ft	PSN: 343°MAG, 13.5 NM FM Zurich THR 16. DOC 100 NM / 50'000 ft. Paired VOR FREQ 114.30 MHz. FRA (I)
WEISSFLUHGIPFEL DME	WFJ	(CH 84Y)	H24	46 50 04.5N 009 47 42.5E	9478 ft	DOC 80 NM / 50'000 ft. Paired VOR FREQ 113.75 MHz.
WILLISAU DVOR/DME (VAR 3° E)	WIL	116.90 MHz (CH 116X)	H24	47 10 42.1N 007 54 20.9E	2425 ft	DOC 50 NM / 25'000 ft, range 80 NM in sector 0° - 105°.
ZURICH EAST DVOR/DME (VAR 3° E)	ZUE	110.05 MHz (CH 37Y)	H24	47 35 31.8N 008 49 03.6E	1730 ft	PSN: 054°MAG, 13.6 NM FM Zurich ARP. DOC 80 NM / 50'000 ft.

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Name-code designator	Coordinates WGS84	ATS route or other route	Remarks
1	2	3	4
MOLUS	46 26 38.0 N 006 40 46.0 E	J32, N871, T330, Z62, Z64	SID LSGG FRA (I) Refer to AIP France
MONIN	46 41 03.4 N 007 59 18.3 E	W112	SID/STAR LSZB
MOPAN	48 14 47 N 008 09 16 E	Y164, Z652	FRA (E): FL195-FL245, Odd FL FRA (I): FL245-FL660, Odd FL Refer to AIP Germany
MOREG	46 23 35 N 006 00 26 E	J32	Refer to AIP France
MOROK	47 23 48 N 006 39 20 E		Refer to AIP France
MOSIT	47 04 08.7 N 008 44 37.7 E	Z651	STAR LSZH, HLDG
NAMEL	46 21 28 N 006 17 00 E	Z62	Refer to AIP France
NATLI	47 29 31 N 007 30 26 E	UL613	Refer to AIP France
NATOR	48 10 12.0 N 008 19 17.0 E	N869	STAR LSZH FRA (E): FL195-FL245, Odd FL FRA (I): FL245-FL660, Odd FL Refer to AIP Germany
NAXOL	46 52 25.2 N 007 48 03.2 E		MIL PROC LSME
NEGRA	47 43 20.0 N 009 25 37.9 E		STAR LSZH FRA (I) Refer to AIP Germany
NEMAG	47 14 53.0 N 007 50 06.0 E	T901	IAC LSZG
NEMOS	46 54 43.0 N 006 54 23.6 E	N869, Y58	STAR LSGG FRA (I)
NINTU	46 08 50 N 005 33 11 E		FRA (X): Odd FL Refer to AIP France
NISPI	46 56 40.9 N 007 19 51.7 E		IAC LSHI PinS
NITAM	45 06 21.8 N 007 09 27.7 E		FRA (X): Odd FL Refer to AIP Italy
NIVIN	46 42 52 N 005 51 58 E		Refer to AIP France
NULXO	46 36 38 N 007 27 39 E		MIL HLDG
NUNRI	47 35 12 N 009 39 09 E	T103, Z6	FRA (X) Refer to AIP Germany
NUSBA	46 06 24 N 005 42 48 E		FRA (X): Odd FL Refer to AIP France
OBEDU	47 15 29 N 008 15 18 E	T53	

Name-code designator	Coordinates WGS84	ATS route or other route	Remarks
1	2	3	4
ODIKI	45 56 32.2 N 006 20 36.6 E	G32	SID LSGG Refer to AIP France
ODINA	46 06 15.8 N 008 39 53.7 E	N850	STAR LSZA FRA (X): Odd FL Refer to AIP Italy
OLBEN	47 18 16 N 007 37 46 E	N869, Y164, Z50, Z69	FRA (I)
OLBOX	47 09 00 N 009 21 00 E	Test Flight pattern East A9	
OLNAV	47 08 00 N 009 14 00 E	Test Flight pattern East A9	
OMASI	45 54 22 N 005 58 27 E		FRA (E): Even FL Refer to AIP France
OMIDO	47 14 58 N 008 27 03 E	T53	
ONNOF	45 57 14 N 005 54 51 E		FRA (X): Odd FL Refer to AIP France
ORSUD	45 57 28 N 007 10 54 E		FRA (I)
OSDOV	47 26 24 N 010 11 00 E		Refer to AIP Germany
OSKUP	47 10 07 N 007 36 33 E	T625, T626	
OSNOG	47 11 42.5 N 008 37 36.1 E	KY251, KY257	
PALLU	47 05 00.4 N 006 47 35.7 E	Y51	SID/STAR, IAC LSGC
PELAD	46 35 56.0 N 009 43 33.0 E	Z50, Z119	HLDG; IAC, SID LSZS
PERAK	46 02 47 N 006 24 35 E		Refer to AIP France
PETAL	46 22 04.9 N 006 18 01.3 E	G5	SID/STAR, IAC LSGG
PINAM	46 43 25.4 N 007 57 43.8 E		IAC LSMM PinS
PIXOS	46 36 19 N 008 58 59 E	N851, Z119	
PUNSA	46 04 43 N 008 01 33 E		FRA (E): Even FL Refer to AIP Italy
PUXXI	46 49 12 N 008 16 52 E		MIL HLDG
RAMOK	47 01 20.2 N 007 41 03.0 E	KQ868, T125, Z142, Z143	SID LSZB

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LSGC AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of Operation	Remarks
1	2	3	4	5
TWR	Les Eplatures Tower	118.125 MHz	HX	NIL

LSGC AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type Category (Variation)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
NIL						

LSGC AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Airport regulations

No RDO ACFT, strictly PPR by phone to AD administration.

2. ACFT taxi and parking

Taxi on paved RWY and TWY only. Parking sectors Blue and Purple available for small aircraft, parking sectors Green and Orange for ICAO code letter A and B aircraft. Coloured lines (green, blue, purple and orange) delimit all parking areas. Panels indicate the positions and names of parking lines and sectors.

3. Summer times

High-density altitudes up to 6000 ft possible. Publication on METAR when temperatures are above 25°C.

4. Winter times

Operations only performed on non-contaminated RWY. Request information by TEL prior to flight in the period from OCT to APR. Runway condition broadcasted on METAR during ATS OPR HR.

5. School and training flights - technical test flights - use of runways

IFR and VFR school flights PPR.

No circuits permitted between 1100 and 1230 (1000 and 1130), after 1800 (1700), SUN and HOL.

LSGC AD 2.21 NOISE ABATEMENT PROCEDURES

1. General provisions

No go-around over city permitted for IFR school and training FLT (APCH RWY 23).

2. Use of the runway system during the day period

TKOF RWY 23 preferred for single engine ACFT.

LSGC AD 2.22 FLIGHT PROCEDURES

1. Minima for IFR departures (TKOF minima)

RWY	ACFT CAT	Vis (m) / Ceiling (ft AGL)			RMK
		No LGT AVBL	REDL or RCLL AVBL	REDL and RCLL AVBL	
05	A	1500/1000	1500/1000	---	NIL
	B	1500/1000	1500/1000	---	
23	A	1500/800	1500/800	---	
	B	1500/800	1500/800	---	

1.1 SID Descriptions

1.1.0.1 Visual SID RWY 05 - RNAV (see chart LSGC AD 2.24.7 -1)

DESIGNATOR	RWY 05			
	ROUTE		Contact	Remark
	Lateral	Vertical		
FRIBOURG 6N (FRI 6N) PDG 4.0% to 5300ft MNM climb gradient 5.0% for airspace	Maintain visual GND contact until GC610 (Stone quarry). Proceed via GC611 to BOMECE. At BOMECE turn left (MAX IAS 150kt during turn). Proceed to PALLU. Climb in the PALLU HLDG pattern to FL110. Proceed to FRI.	INITIAL CLIMB CLEARANCE FL080 Cross GC610 at 4300ft or above, GC611 at 6900ft or above.	NIL	RNAV applicable when passing GC610
DEKAM 3M PDG 4.0% to 5300ft MNM climb gradient 5.0% for airspace	Maintain visual GND contact until GC610 (Stone quarry). Proceed via GC611, BOMECE to DEKAM.	INITIAL CLIMB CLEARANCE FL080 Cross GC610 at 4300ft or above, GC611 at 6900ft or above.	NIL	RNAV applicable when passing GC610
SAINT-PREX 6M (SPR 6M) PDG 4.0% to 5300ft MNM climb gradient 5.0% for airspace	Maintain visual GND contact until GC610 (Stone quarry). Proceed via GC611 to BOMECE. At BOMECE turn left (MAX IAS 150kt during turn). Proceed via PALLU, FLORY to SPR.	INITIAL CLIMB CLEARANCE FL080 Cross GC610 at 4300ft or above, GC611 at 6900ft or above.	NIL	RNAV applicable when passing GC610
SAINT-PREX 6N (SPR 6N) PDG 4.0% to 5300ft MNM climb gradient 5.0% for airspace	Maintain visual GND contact until GC610 (Stone quarry). Proceed via GC611 to BOMECE. At BOMECE turn left (MAX IAS 150kt during turn). Proceed to PALLU. Climb in the PALLU HLDG pattern to FL110. Proceed via FLORY to SPR..	INITIAL CLIMB CLEARANCE FL080 Cross GC610 at 4300ft or above, GC611 at 6900ft or above.	NIL	RNAV applicable when passing GC610

Visual SID FRI 6N - RNAV

Path terminator	Waypoint	Flyover	Turn direction	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
DF	GC610	Y	-	+4300	-	-	-
TF	GC611	N	-	+6900	-	052° (054.3°T)	5.5
TF	BOMECE	Y	-	-	-	052° (054.4°T)	1.5
DF	PALLU	Y	L	-	-150	-	-
HA	PALLU	Y	R	FL110	-150	052° (054.1°T)	1 min
TF	FRI	N	-	-	-	134° (135.9°T)	25.5

Remark: Distance from end of RWY05 to GC610 is 2.67NM

Visual SID DEKAM 3M - RNAV

Path terminator	Waypoint	Flyover	Turn direction	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
DF	GC610	Y	-	+4300	-	-	-
TF	GC611	N	-	+6900	-	052° (054.3°T)	5.5
TF	BOMEK	N	-	-	-	052° (054.4°T)	1.5
TF	DEKAM	N	-	-	-	052° (054.4°T)	6.1

Remark: Distance from end of RWY05 to GC610 is 2.67 NM

Visual SID SPR 6M - RNAV

Path terminator	Waypoint	Flyover	Turn direction	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
DF	GC610	Y	-	+4300	-	-	-
TF	GC611	N	-	+6900	-	052° (054.3°T)	5.5
TF	BOMEK	Y	-	-	-	052° (054.4°T)	1.5
DF	PALLU	N	L	-	-150	-	-
TF	FLORY	N	-	-	-	217° (219.3°T)	13.5
TF	SPR	N	-	-	-	190° (192.1°T)	27.0

Remark: Distance from end of RWY05 to GC610 is 2.67 NM

Visual SID SPR 6N - RNAV

Path terminator	Waypoint	Flyover	Turn direction	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
DF	GC610	Y	-	+4300	-	-	-
TF	GC611	N	-	+6900	-	052° (054.3°T)	5.5
TF	BOMEK	Y	-	-	-	052° (054.4°T)	1.5
DF	PALLU	Y	L	-	-150	-	-
HA	PALLU	Y	R	FL110	-150	052° (054.1°T)	1 min
TF	FLORY	N	-	-	-	217° (219.3°T)	13.5
TF	SPR	N	-	-	-	190° (192.1°T)	27.0

Remark: Distance from end of RWY05 to GC610 is 2.67 NM

HLDG BOMEK:

INBD TR052, turns left, OUBD leg 1 min, MNM HLDG ALT 7000ft, MAX HLDG FL110. MAX IAS 150kt.

HLDG PALLU:

INBD TR052, turns right, OUBD leg 1 min, MNM HLDG ALT 7000ft, MAX HLDG FL110. MAX IAS 150kt.

1.1.0.2 Visual SID RWY 23 - RNAV (see chart LSGC AD 2.24.7 - 3)

DESIGNATOR	RWY 23				
	ROUTE			Contact	Remark
	Lateral	Vertical			
FRIBOURG 5B (FRI 5B) PDG 4.8% to 4900ft MNM climb gradient 5.9% to 4900ft from LSGC DER23 and 5.0% thereafter for airspace	Maintain visual GND contact until GC630 (Long industrial building followed by a sports field). At 4900ft, but not before GC630, turn left (MAX IAS 150kt during turn). Climb in the PALLU HLDG pattern to FL110. Proceed to FRI	INITIAL CLIMB CLEARANCE FL080 Cross GC630 at 4100ft or above, PALLU at 7000ft or above.	NIL	No turn before DER. RNAV applicable when passing GC630	
DEKAM 3A PDG 4.8% to 4900ft MNM climb gradient 5.9% to 4900ft from LSGC DER23 and 5.0% thereafter for airspace	Maintain visual GND contact until GC630 (Long industrial building followed by a sports field). At 4900ft, but not before GC630, turn left (MAX IAS 150kt during turn). Proceed via PALLU, BOMECE to DEKAM.	INITIAL CLIMB CLEARANCE FL080 Cross GC630 at 4100ft or above, BOMECE at 7000ft or above.	NIL	No turn before DER. RNAV applicable when passing GC630	
SAINT-PREX 5A (SPR 5A) PDG 4.8% to 4700ft MNM climb gradient 5.0% for airspace	Maintain visual GND contact until GC630 (Long industrial building followed by a sports field). Proceed via GC631, FLORY to SPR	INITIAL CLIMB CLEARANCE FL080 Cross GC630 at 4100ft or above, GC631 at 6500ft or above.	NIL	No turn before DER. RNAV applicable when passing GC630	
SAINT-PREX 5B (SPR 4B) PDG 4.8% to 4900ft MNM climb gradient 5.9% to 4900ft from LSGC DER23 and 5.0% thereafter for airspace	Maintain visual GND contact until GC630 (Long industrial building followed by a sports field). At 4900ft, but not before GC630, turn left (MAX IAS 150kt during turn). Climb in the PALLU HLDG pattern to FL110. Proceed via FLORY to SPR.	INITIAL CLIMB CLEARANCE FL080 Cross GC630 at 4100ft or above, PALLU at 7000ft or above.	NIL	No turn before DER. RNAV applicable when passing GC630	

Visual SID FRI 5B - RNAV

Path terminator	Waypoint	Flyover	Turn direction	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
DF	GC630	Y	-	+4100	-	-	-
CA	-	N	-	+4900	-	226° (228.6°T)	-
DF	PALLU	Y	L	+7000	-150	-	-
HA	PALLU	Y	R	FL110	-150	052° (054.1°T)	1 min
DF	FRI	N	-	-	-	134° (135.9°T)	25.5

Visual SID DEKAM 3A - RNAV

Path terminator	Waypoint	Flyover	Turn direction	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
DF	GC630	Y	-	+4100	-	-	-
CA	-	N	-	+4900	-	226° (228.6°T)	-
DF	PALLU	N	L	-	-150	-	-
TF	BOMECE	N	-	+7000	-	052° (054.1°T)	10.0
TF	DEKAM	N	-	-	-	052° (054.4°T)	6.1

Visual SID SPR 5A - RNAV

Path terminator	Waypoint	Flyover	Turn direction	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
DF	GC630	Y	-	+4100	-	-	-
TF	GC631	N	-	+6500	-	226° (228.6°T)	3.2
TF	FLORY	N	-	-	-	207° (209.5°T)	6.9
TF	SPR	N	-	-	-	190° (192.2°T)	27.0

Visual SID SPR 5B - RNAV

Path terminator	Waypoint	Flyover	Turn direction	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
DF	GC630	Y	-	+4100	-	-	-
CA	-	N	-	+4900	-	226° (228.6°T)	-
DF	PALLU	Y	L	+7000	-150	-	-
HA	PALLU	Y	R	FL110	-150	052° (054.1°T)	1 min
TF	FLORY	N	-	-	-	217° (219.3°T)	13.5
TF	SPR	N	-	-	-	190° (192.1°T)	27.0

HLDG BOMEK:

INBD TR052, turns left, OUBD leg 1 min, MNM HLDG ALT 7000ft, MAX HLDG FL110. MAX IAS 150kt.

HLDG PALLU:

INBD TR052, turns right, OUBD leg 1 min, MNM HLDG ALT 7000ft, MAX HLDG FL110. MAX IAS 150kt.

2. STAR Descriptions

2.1 STAR ARPUS TO PALLU - RNAV (see chart LSGC AD 2.24.9.1 - 1)

DESIGNATOR	ARPUS TO PALLU - RNAV		
	ROUTE		
	Lateral	Vertical	Remark
ARPUS 3E	From ARPUS proceed via HR, ARNOT, DEKAM (MAX IAS 150kt), BOMECE to PALLU	HR MIN FL090, ARNOT MAX FL090, PALLU MNM 7000ft.	HLDG ARPUS: Ref: AIP France

STAR ARPUS 3E - RNAV							
Path terminator	Waypoint	Flyover	Turn direction	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
IF	ARPUS	Y	-	-	-	-	-
TF	HR	N	L	+FL090	-	156° (157.9°T)	7.2
TF	ARNOT	N	-	-FL090	-	139° (141.3°T)	12.2
TF	DEKAM	N	R	+7000	-150	139° (141.0°T)	12.5
TF	BOMECE	N	-	+7000	-	232° (234.4°T)	6.1
TF	PALLU	Y	-	+7000	-	232° (234.3°T)	10.0

2.2 STAR TO PALLU - RNAV (see chart LSGC AD 2.24.9.2 - 1)

DESIGNATOR	TO PALLU		
	ROUTE		
	Lateral	Vertical	Remark
FRIBOURG 2R (FRI 2R)	Proceed from FRI to PALLU.	Maintain MNM FL110 to PALLU.	NIL
DEKAM 3R	From DEKAM proceed via BOMECE to PALLU	Cross BOMECE at 7000ft or above, PALLU at 7000ft or above	NIL
SAINT-PREX 3R (SPR 3R)	From SPR proceed via FLORY to PALLU	Maintain MNM FL110 to PALLU	NIL

STAR FRI 2R - RNAV						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
IF	FRI	N	-	-	-	-
TF	PALLU	N	+FL110	-	314° (316.2°T)	25.5

STAR DEKAM 3R - RNAV						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
IF	DEKAM	N	-	-	-	-
TF	BOMECE	N	+7000	-	232° (234.5°T)	6.1
TF	PALLU	N	+7000	-	232° (234.3°T)	10.0

STAR SPR 3R - RNAV						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
IF	SPR	N	-	-	-	-
TF	FLORY	N	-	-	010° (012.0°T)	27.0
TF	PALLU	N	+FL110	-	037° (039.1°T)	13.5

HLDG PALLU:

INBD TR052, turns right, OUBD leg 1 min, MNM HLDG ALT 7000ft, MAX HLDG FL110. MAX IAS 150kt.

2.3 Approach procedures:

APAPI has to be strictly followed in visual segment of all IFR-approaches due to obstacles on short final.

2.3.1 Procedure description of RNP RWY 05 (see chart LSGC AD 2.24.10 - 1)

From PALLU						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
IF	PALLU	N	-FL110 +7000	-150	-	-
TF	FLORY	N	+7000	-150	217° (219.3°T)	13.6
TF	GC750	N	+7000	-150	336° (338.3°T)	2.8
TF	GC751	N	+7000	-	048° (050.1°T)	3.3
TF	GC752	Y	-	-	048° (050.2°T)	8.6
TF	GC753	Y	+7000	-	048° (050.3°T)	10.3
DF	PALLU	Y	-FL110 +7000	-130	-	-
HM	PALLU	Y	-FL110 +7000	-150	052° (054.1°)	-

From FLORY						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
IF	FLORY	N	+7000	-150	-	-
TF	GC750	N	+7000	-150	336° (338.3°T)	2.8
TF	GC751	N	+7000	-	048° (050.1°T)	3.3
TF	GC752	Y	-	-	048° (050.2°T)	8.6
TF	GC753	Y	+7000	-	048° (050.3°T)	10.3
DF	PALLU	Y	-FL110 +7000	-130	-	-
HM	PALLU	Y	-FL110 +7000	-150	052°(054.1°)	-

2.3.2 Procedure description of RNP RWY 23 (see chart LSGC AD 2.24.10 - 3)

From BALIR						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
IF	BALIR	N	+7000	-	-	-
TF	GC701	N	+7000	-	241° (243.2°T)	4.4
TF	DEKAM	N	+7000	-	232° (234.7°T)	3.7
TF	BOMEK	N	+7000	-	232° (234.5°T)	6.1
TF	RW23	Y	-	-	232° (234.4°T)	9.7
DF	GC704	Y	-	-	232° (234.3°T)	4.0
DF	PALLU	Y	-FL110 +7000	-150	-	-
HM	PALLU	Y	-FL110 +7000	-150	052°(054.1°)	-

From PALLU						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
IF	PALLU	N	-FL110 +7000	-150	-	-
TF	BOMEK	N	+7000	-	052° (054.1°T)	10.0
TF	GC706	N	+7000	-	024° (026.2°T)	6.8
TF	DEKAM	N	+7000	-	139° (141.3°T)	3.2
TF	BOMEK	N	+7000	-	232° (234.5°T)	6.1
TF	RW23	Y	-	-	232° (234.4°T)	9.7
TF	GC704	Y	-	-	232° (234.3°T)	4.0
DF	PALLU	Y	-FL110 +7000	-150	-	-
HM	PALLU	Y	-FL110 +7000	-150	052°(054.1°)	-

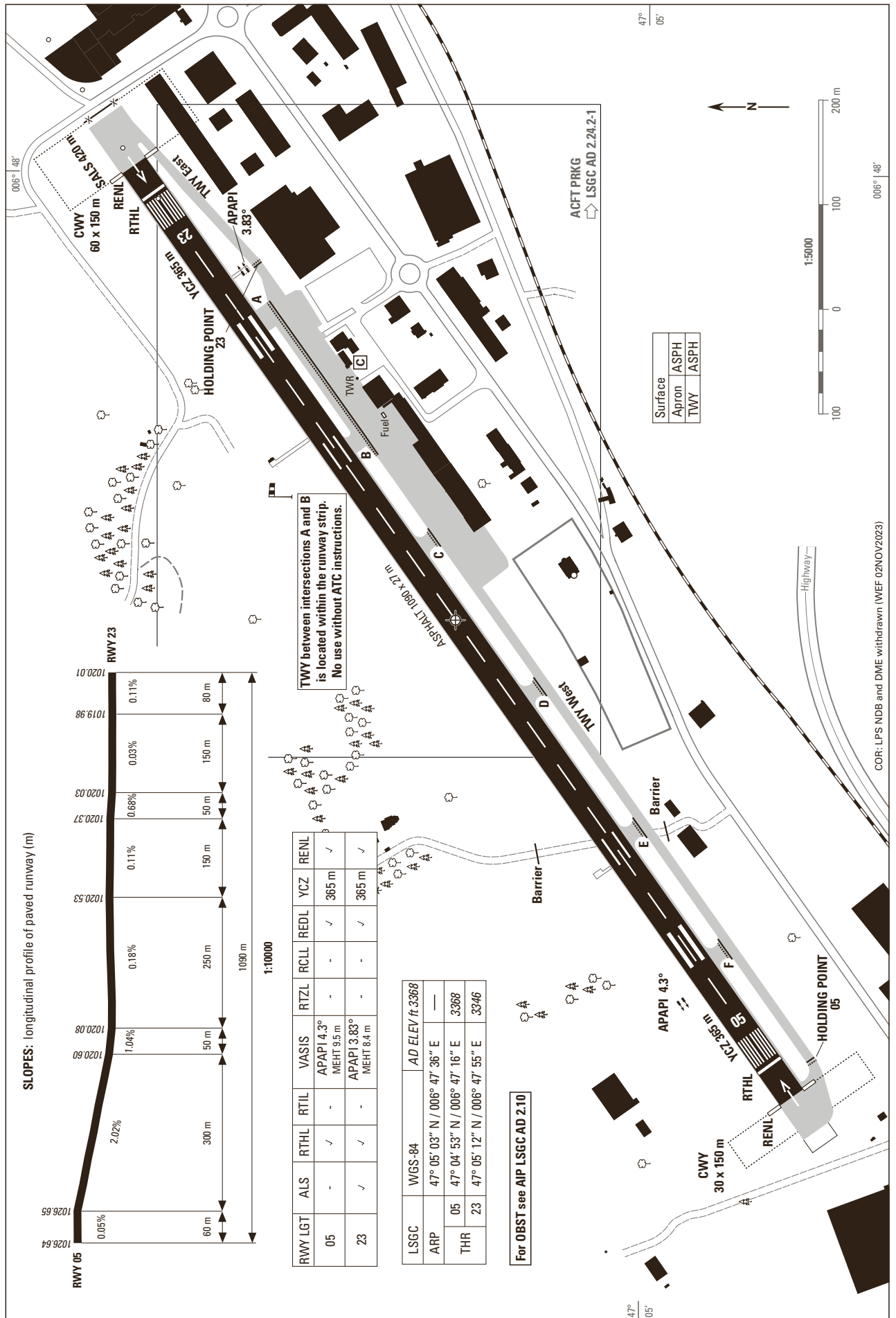
LSGC AD 2.23 ADDITIONAL INFORMATION

1. List of significant points (Terminal)

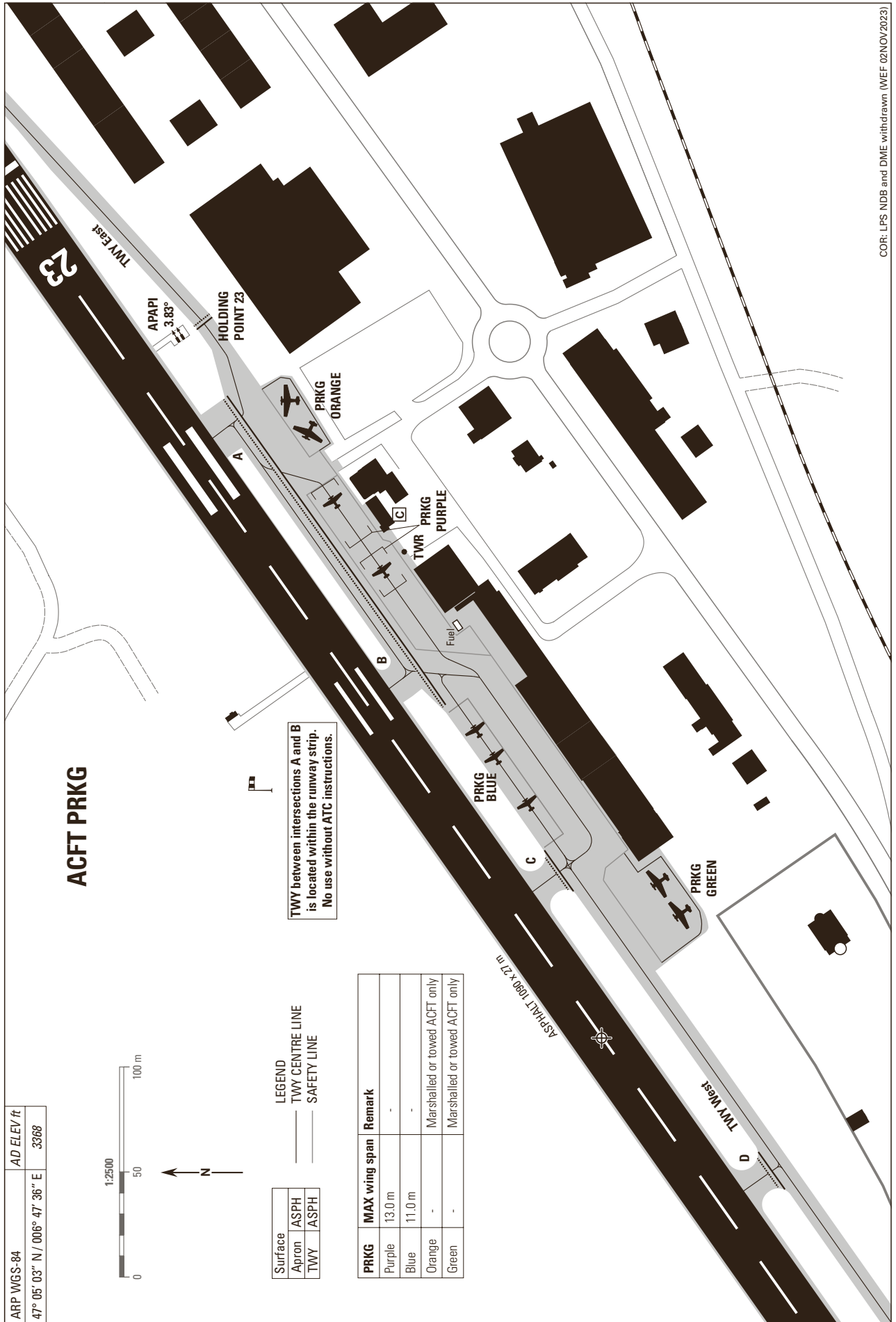
NAV point	COORD WGS84		Back-up Definition			Purpose
	LAT	LONG	Radial	DME	NAV	
1	2		3			4
ARPUS	N 47 40 21.3	E 006 39 56.8	---	---	---	STAR LSGC
BOMEK	N 47 10 50.4	E 006 59 26.9	---	---	---	STAR/SID LSGC
FRI VOR	N 46 46 39	E 007 13 25	---	---	---	STAR/SID LSGC
GC610	N 47 06 47.5	E 006 51 09.6	---	---	---	SID LSGC
GC611	N 47 09 58.1	E 006 57 39.6	---	---	---	SID LSGC
GC630	N 47 02 41.4	E 006 43 37.2	---	---	---	SID LSGC
GC631	N 47 00 33.2	E 006 40 05.0	---	---	---	SID LSGC
GC701	N 47 16 31.0	E 007 11 08.4	---	---	---	IAC LSGC
GC704	N 47 02 51.0	E 006 43 07.8	---	---	---	IAC LSGC
GC706	N 47 16 54.1	E 007 03 49.5	---	---	---	IAC LSGC
GC750	N 46 57 07.2	E 006 33 35.2	---	---	---	IAC LSGC
GC751	N 46 59 13.5	E 006 37 16.3	---	---	---	IAC LSGC
GC752	N 47 04 41.6	E 006 46 53.0	---	---	---	IAC LSGC
GC753	N 47 11 16.7	E 006 58 31.9	---	---	---	IAC LSGC
SPR VOR	N 46 28 07	E 006 26 53	---	---	---	STAR/SID LSGC

LSGC AD 2.24 CHARTS RELATED TO AN AERODROME

Name	Page
Aerodrome Chart	LSGC AD 2.24.1 - 1
Aircraft Parking Chart	LSGC AD 2.24.2 - 1
Aerodrome Obstacle Chart - Type A - RWY 05/23	LSGC AD 2.24.4 - 1
Visual SID RWY 05 - RNAV	LSGC AD 2.24.7 - 1
Visual SID RWY 23 - RNAV	LSGC AD 2.24.7 - 3
STAR ARPUS TO PALLU - RNAV	LSGC AD 2.24.9.1 - 1
STAR TO PALLU - RNAV	LSGC AD 2.24.9.2 - 1
IAC RNP RWY 05 CAT A, B	LSGC AD 2.24.10 - 1
IAC RNP RWY 23 CAT A, B	LSGC AD 2.24.10 - 3



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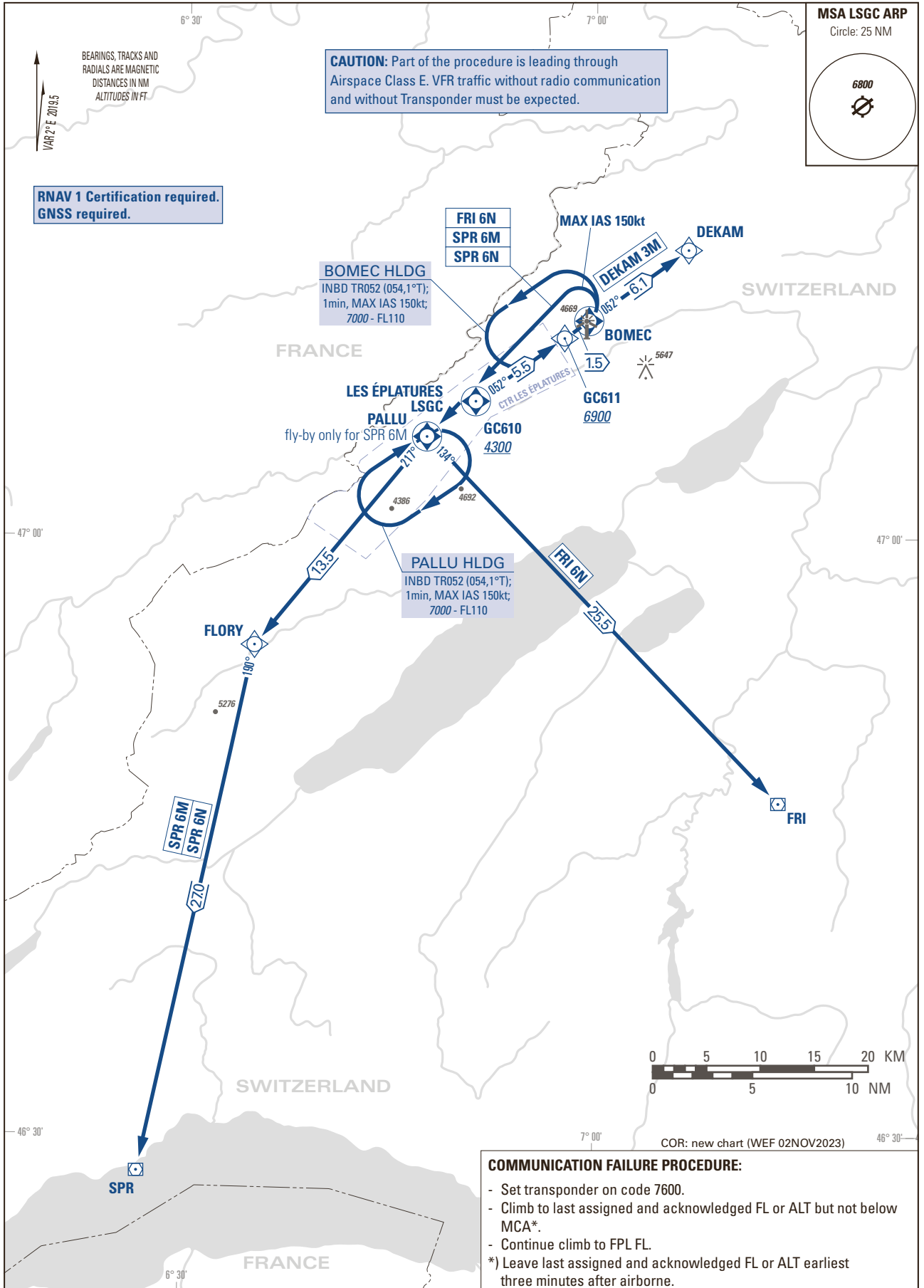


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STANDARD INSTRUMENT DEPARTURE CHART (SID) - ICAO

TRANSITION LEVEL by ATC
TRANSITION ALTITUDE 7000

LES ÉPLATURES LSGC
Visual SID RWY 05 - RNAV

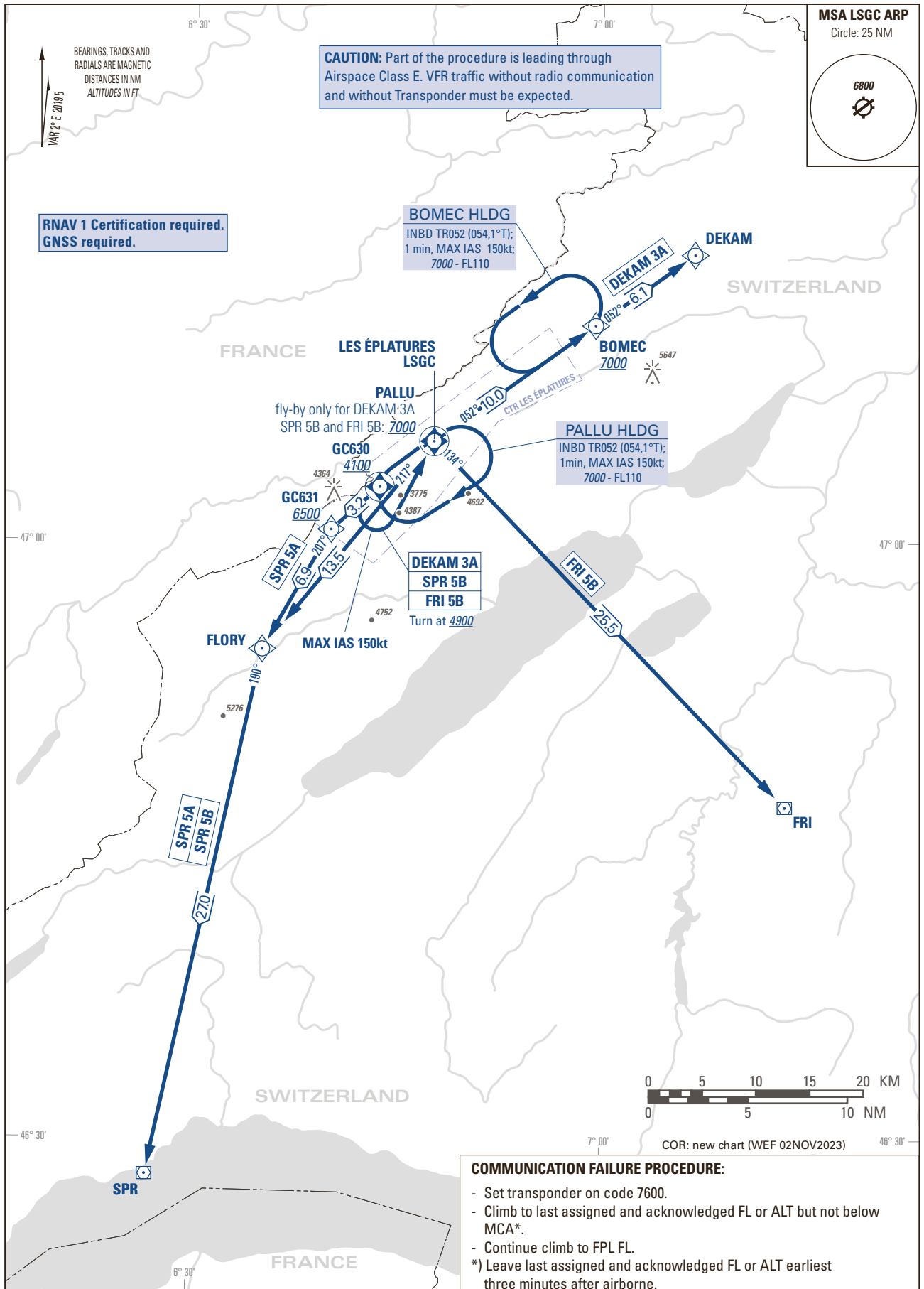


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STANDARD INSTRUMENT DEPARTURE CHART (SID) - ICAO

TRANSITION LEVEL by ATC
TRANSITION ALTITUDE 7000

LES ÉPLATURES LSGC
Visual SID RWY 23 - RNAV

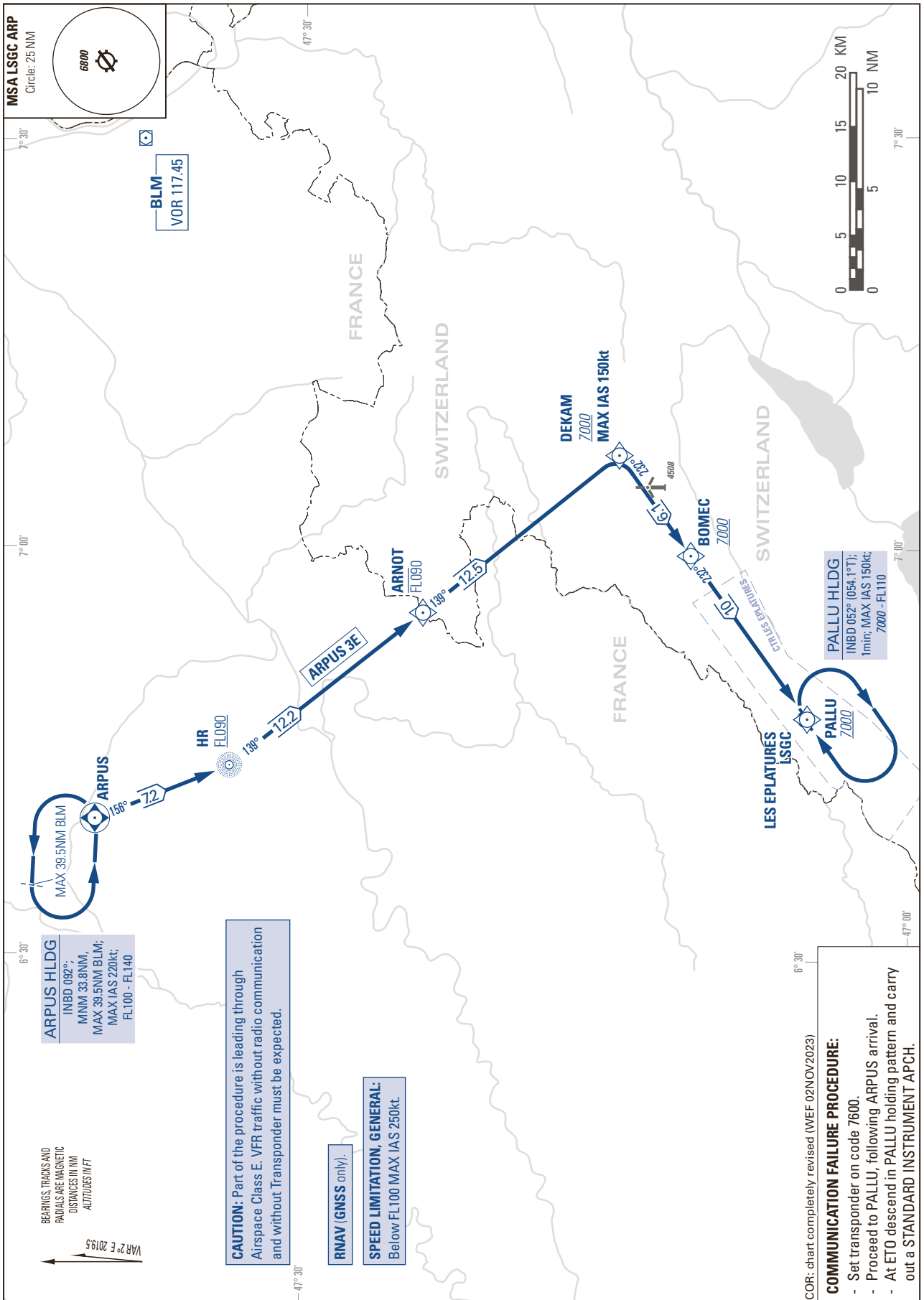


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STANDARD INSTRUMENT ARRIVAL CHART
(STAR) - ICAO

TRANSITION LEVEL by ATC
TRANSITION ALTITUDE 7000

LES EPLATURES LSGC
STAR ARPUS to PALLU - RNAV

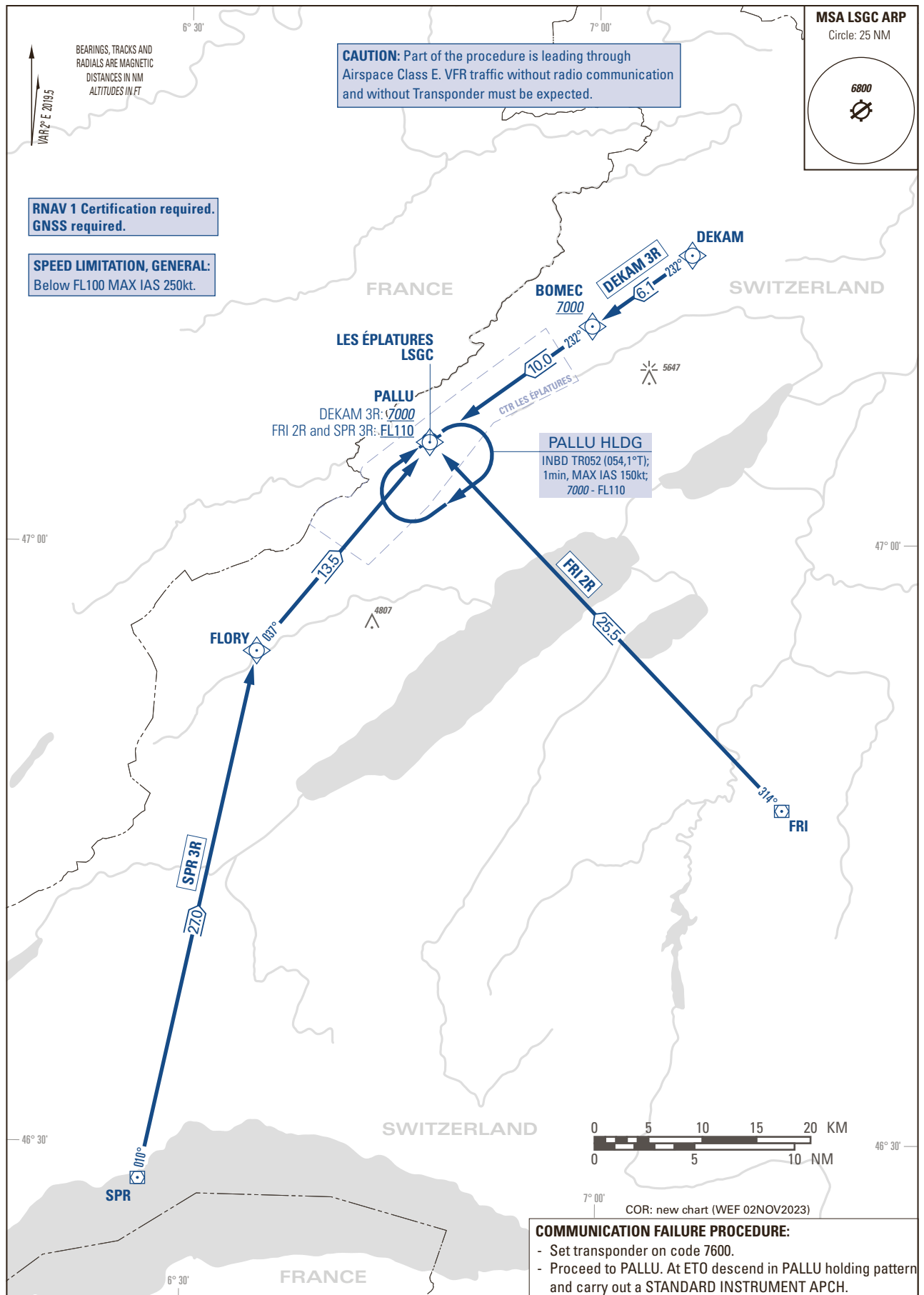


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STANDARD INSTRUMENT ARRIVAL CHART
(STAR) - ICAO

TRANSITION LEVEL by ATC
TRANSITION ALTITUDE 7000

LES ÉPLATURES LSGC
STAR TO PALLU - RNAV



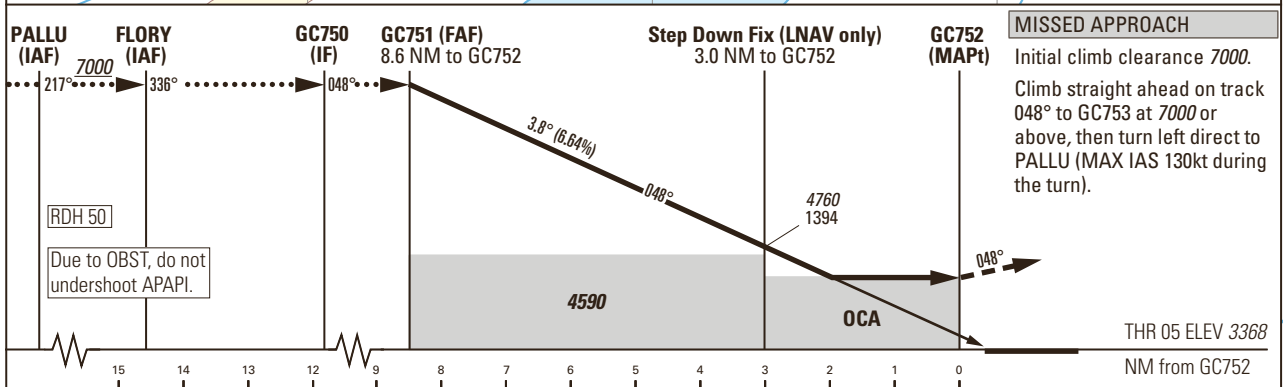
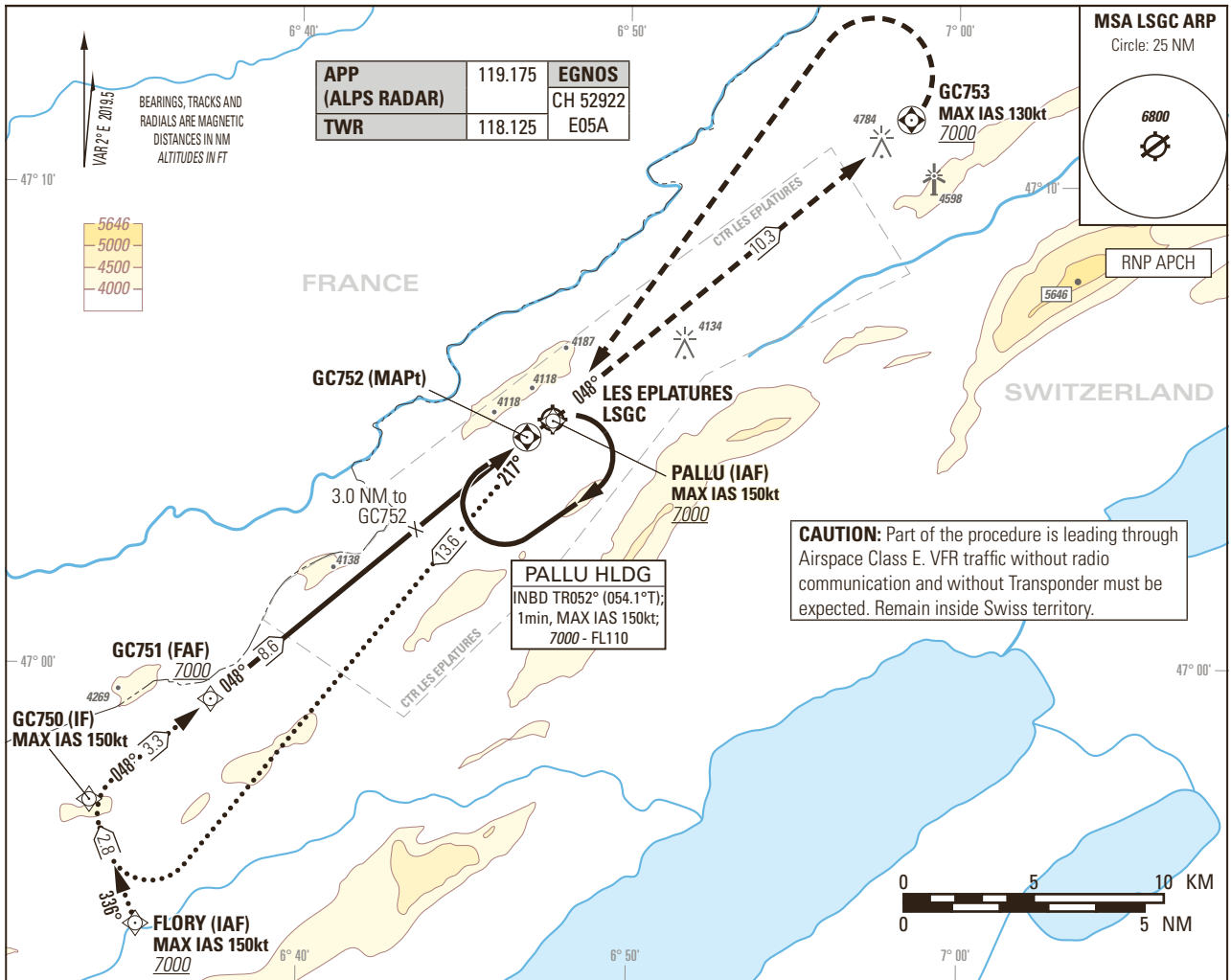
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Instrument Approach Chart
(IAC) - ICAO

AD ELEV 3368ft

TRANSITION LEVEL by ATC
TRANSITION ALTITUDE 7000

LES EPLATURES LSGC
RNP RWY 05
4° OFFSET RIGHT
ACFT CAT A/B



Missed APCH climb gradient requirement	STRAIGHT-IN APPROACH				
	A	B ²⁾			
	OCA(H) LPV CAT I				
2.5%	4194 (826)	4210 (842)			
5.0%	3950 (582)	3966 (598)			
	OCA(H) LNAV				
2.5%	4380 (1014)				
Circling ¹⁾	4640 (1272)	5010 (1642)			
ROD	GS kt	90	110	130	150
	FT/MIN	605	740	874	1009

GC752 DIST	8	7	6	5	4	3	2	1
recommended CROSSING ALT	6650	6240	5840	5440	5030	4630	4230	3820
recommended CROSSING HGT	3282	2872	2472	2072	1662	1262	862	452

REMARK
AIRAC date MAR - OCT 31: Intense GLD ACT within APCH Sector and ATS Routes.

CAUTION
On 3.8° APCH angle and GS > 140kt resulting ROD > 1000ft/min.
1.3 NM BFR THR 05 Visual Segment Surface (VSS) penetrated by trees up to 3730ft AMSL.
Non-standard APCH angle.
Final APCH TR offset by 4° right from RWY CTRL intercepting the RWY CTRL 597m before THR05.

NOTE
¹⁾ Circling shall remain within CTR limits.
²⁾ Higher CAT of ACFT may use the same PROC if they comply with the CAT B restrictions.

COR: LPS replaced by PALLU (WEF 02NOV2023)

Input data

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	LSGC
Runway	05
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E05A
LTP/FTP Latitude	470453.9575N
LTP/FTP Longitude	0064714.7400E
LTP/FTP Ellipsoidal Height (metres)	1076.8
FPAP Latitude	470529.0145N
Delta FPAP Latitude (seconds)	35.0570
FPAP Longitude	0064816.5730E
Delta FPAP Longitude (seconds)	61.8330
Threshold Crossing Height	50.0
TCH Units Selector	0 (feet)
Glidepath Angle (degrees)	3.80
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	35.0

Output data

Data Block	10 03 07 13 0C 05 00 00 01 35 30 05 8B 8B 34 14 68 B0 E9 02 10 3E E2 11 01 12 E3 01 F4 01 7C 01 64 00 C8 AF AF 98 FA DC
Calculated CRC Value	AF98FADC

Required Additional Data

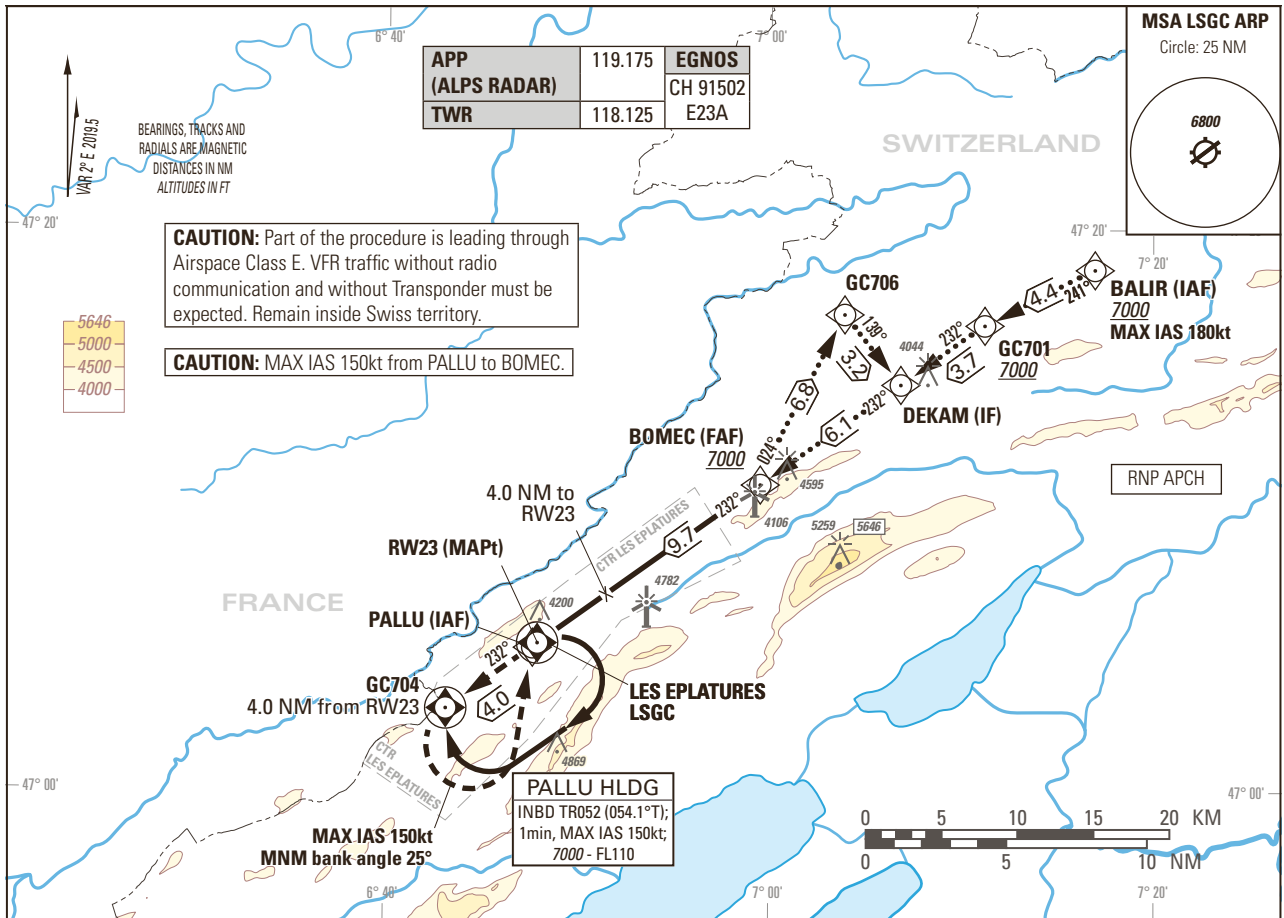
ICAO Code	LS
LTP/FTP Orthometric Height (metres)	1026.5

Instrument Approach Chart
(IAC) - ICAO

AD ELEV 3368ft

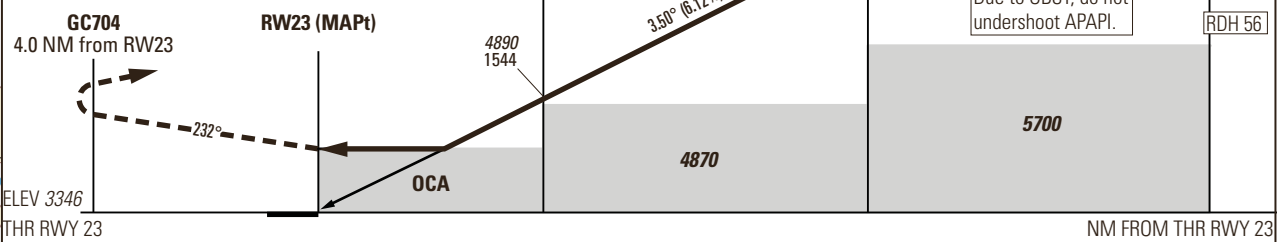
TRANSITION LEVEL by ATC
TRANSITION ALTITUDE 7000

LES EPLATURES LSGC
RNP RWY 23
ACFT CAT A/B



MISSED APPROACH

Initial climb clearance 7000.
Climb straight ahead on track 232° to GC704, then turn left (MAX IAS 150kt during turn, MNM bank angle 25° to remain inside controlled airspace) direct to PALLU and hold. MNM climb gradient 5.8% to 7000 to remain inside controlled airspace.



THR RWY 23 NM FROM THR RWY 23

Missed APCH climb gradient requirement	STRAIGHT-IN APPROACH				
	A	B ²⁾			
	OCA(H) LPV CAT I				
2.5%	3990 (644)	4004 (658)			
5.0% up to 4400	3692 (346)	3706 (360)			
	DA(H) LPV CAT I				
2.5%	3990 (644)	4004 (658)			
5.0% up to 4400	3846 (500)				
	OCA(H) LNAV				
2.5%	4410 (1064)				
Circling ¹⁾	4640 (1272)	5010 (1642)			
ROD	GS kt	90	110	130	150
	FT/MIN	558	682	806	930

RW24 DIST	1	2	3	4	5	6	7	8	9
recommended CROSSING ALT	3770	4150	4520	4890	5260	5630	6000	6380	6750
recommended CROSSING HGT	424	804	1174	1544	1914	2284	2654	3034	3404

REMARK
AIRAC date MAR - OCT 31: Intense GLD ACT within APCH Sector and ATS Routes.

CAUTION
4NM BFR THR 23 Visual Segment Surface (VSS) penetrated by trees, terrain and OBST up to 3592ft AMSL.
Gliders parked near RWY edge.

NOTE
¹⁾ circling shall remain within CTR limits.
²⁾ Higher CAT of ACFT may use the same PROC if they comply with the CAT B restrictions.

COR: LPS replaced by PALLU (WEF 02NOV2023)

Input data

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	LSGC
Runway	23
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E23A
LTP/FTP Latitude	470512.2145N
LTP/FTP Longitude	0064755.3165E
LTP/FTP Ellipsoidal Height (metres)	1070.1
FPAP Latitude	470452.1730N
Delta FPAP Latitude (seconds)	-20.0415
FPAP Longitude	0064714.4805E
Delta FPAP Longitude (seconds)	-40.8360
Threshold Crossing Height	17.1
TCH Units Selector	1 (meters)
Glidepath Angle (degrees)	3.50
Course Width (metres)	80.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	35.0

Output data

Data Block	10 03 07 13 0C 17 00 00 01 33 32 05 2D 1A 35 14 69 ED EA 02 CD 3D 6D 63 FF F8 C0 FE 56 81 5E 01 00 00 C8 AF 43 E7 A1 84
Calculated CRC Value	43E7A184

Required Additional Data

ICAO Code	LS
LTP/FTP Orthometric Height (metres)	1020.0

1.1.1.1.1 STANDARD INSTRUMENT RNAV DEPARTURE ROUTES (see chart LSGG AD 2.24.7 - 1)

DESIGNATOR	RWY 04			
	ROUTE			Remark
	Lateral	Vertical	Contact	
MOLUS 4N PDG 5.4% to 1600ft	Climb straight ahead to PETAL then turn right to MOLUS.	INITIAL CLIMB CLEARANCE FL090. Cross PETAL at 5000ft or above, MOLUS at FL100 or above.	When instructed, contact GENEVA DEP 119.530.	See note below

Note 1: RNAV 1 (GNSS) required.

1.1.1.2 SID RWY 22 - RNAV (see chart LSGG AD 2.24.7 - 3)

RNAV Segment SID KONIL 5J						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
-	GG603	N	-	190	-	-
TF	DEREM	N	-	-	041° (043.0°T)	7.2
TF	GLA	N	+4000	-	040° (042.1°T)	4.2
TF	(D18.0 GVA)	N	+7000	-	041° (042.7°T)	7.8
TF	KONIL	N	-	-	041° (042.7°T)	5.3

RNAV Segment SID MOLUS 4A						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
-	GG602	N	-	-	-	-
TF	TINAM	N	+FL100	-	051° (052.7°T)	24.2
TF	MOLUS	N	-	-	049° (050.8°T)	8.0

GENERAL INFORMATION AND REQUIREMENTS FOR ALL SIDs

- Close-in obstacles: Trees and poles each side of RCL up to 170ft above DER ELEV.
- The SIDs are MNM noise routes.
- The MCAs specified in the SIDs are subject to airspace structure only. Published PDG do not guarantee maintaining of the MCAs.
- The SIDs are designed to meet GNSS criteria.
- To expedite traffic, expect line-up clearances at INT unless operations require full RWY LEN (Declared distances, Ref [LSGG AD 2.13](#)).

1.1.1.2.1 STANDARD INSTRUMENT RNAV DEPARTURE ROUTES (see chart LSGG AD 2.24.7 - 3)

DESIGNATOR	RWY 22				
	ROUTE			Contact	Remark
	Lateral	Vertical			
KONIL 5J PDG 4.9% to 1900ft MNM climb gradient 11.5% to 4000ft to remain inside controlled airspace.	Climb on R224 GVA. When passing 1900ft but not before D3 GVA (D4.7 INBD PAS), turn right (MNM bank angle 25°, MAX IAS 190 kt until passing GG603). Proceed via GG603, DEREM, GLA to KONIL.	INITIAL CLIMB CLEARANCE FL090. Cross GLA at 4000ft or above, D18.0 GVA at 7000ft or above.	When instructed, contact GENEVA DEP 119.530.	Not AVBL to Jet ACFT with noise classification I, II and III, in accordance with AIP GEN 4.1 App A. See notes below.	

Note 1: Traffic planned on N871, proceed:

- Z63 (KONIL SOSAL, FL100 or above), or on ATC request
- ALTN RTE Z62 (DEREM NAMEL TINAM, cross DEREM at 7000ft or above, NAMEL at 9200ft or above)

Note 2: Traffic planned on G5 (MAX FL090), proceed on R247 FRI to FRI.

Note 3: Traffic destination LFSB:

- outside MIL OPERATING HOURS: after KONIL expect route Y51 to BALIR, cross LORBU at FL110 or above.

Note 4: Traffic destination LSGC:

- outside MIL OPERATING HOURS: after KONIL expect route Y51 to PALLU, cross LORBU at FL110 or above.

Note 5: RNAV 1 (GNSS) applicable when passing GG603.

Note 6: Caution! High terrain North of AD. Do not fly North of track 041° to GG603.

DESIGNATOR	RWY 22				
	ROUTE			Contact	Remark
	Lateral	Vertical			
MOLUS 4A PDG 6.3% to 5400ft	Climb on R224 GVA. When passing 7000ft but not before D8 GVA (PAS VOR/DME), turn left (MNM bank angle 25°). Proceed via GG602, TINAM to MOLUS.	INITIAL CLIMB CLEARANCE FL090. Cross TINAM at FL100 or above.	When instructed, contact GENEVA DEP 119.530.	See notes below.	

Note 1: RNAV 1 (GNSS) applicable when passing GG602.

Note 2: MAX IAS 220kt when turn occurs between D8 and D10 from GVA.

1.1.1.3 SID RWY 04 - NON RNAV

GENERAL INFORMATION AND REQUIREMENTS FOR ALL SIDs

- If UNA to comply with the specified PDG in the respective SID, ADZ ATC.
- Close-in obstacles: Trees and poles each side of RCL up to 170ft above DER ELEV.
- The SIDs are MNM noise routes.
- The MCAs specified in the SIDs are subject to airspace structure only. Published PDG do not guarantee maintaining of the MCAs.
- To expedite traffic, expect line-up clearances at INT unless operations require full RWY LEN (Declared distances, Ref [LSGG AD 2.13](#)).
- Due to wake turbulence, all ACFT except HVY jet, should be prepared for both full LEN DEP and DEP from displaced THR. ATC will provide line-up instructions. Pilots shall ADZ TWR 118.700 MHz on initial call if UNA to accept DEP from displaced THR (Declared distances, Ref LSGG AD 2.13).

1.1.1.3.1 STANDARD INSTRUMENT NON RNAV DEPARTURE ROUTES (see chart LSGG AD 2.24.7 - 5)

DESIGNATOR	RWY 04			
	ROUTE			Remark
	Lateral	Vertical	Contact	
ARBOS 8N PDG 5.4% to 1600ft	Climb on R044 GVA. When passing 7000ft but not before D8 GVA, turn left. Establish TR014 to intercept R329 SPR. Proceed via LEGVO to ARBOS.	INITIAL CLIMB CLEARANCE FL090. Cross D9.5 GVA at 4000ft or above, D26 SPR at FL200 or above.	When instructed, contact GENEVA DEP 119.530.	
BALSI 9N PDG 5.4% to 6100ft	Climb on R044 GVA. When passing 5000ft but not before D8 GVA, turn right. Establish TR184 to intercept R049 CBY. Proceed on R049 CBY to intercept R180 PAS. Proceed via RUMIL, LINNA, BEVEN to BALSI.	INITIAL CLIMB CLEARANCE FL090. Cross D10 PAS at FL100 or above, RUMIL at FL120 or above, LINNA at FL190 or above, BALSI at FL200 or above.	When instructed, contact GENEVA DEP 119.530.	
CHAMBERY 1N (CBY 1N) PDG 5.4% to 6100ft	Climb on R044 GVA. When passing 5000ft but not before D8 GVA, turn right. Establish TR184 to intercept R049 CBY. Proceed to CBY.	INITIAL CLIMB CLEARANCE FL080.	When instructed, contact GENEVA DEP 119.530.	Note: only for TFC DEST LFLB, LFLP, and by ATC.
CHAMBERY 1P (CBY 1P) PDG 5.4% to 5200ft	Climb on R044 GVA. When passing 5000ft but not before D2 GVA, turn left to PAS. When passing PAS, continue on R209 PAS. Proceed to CBY.	INITIAL CLIMB CLEARANCE FL080. Cross PAS at 7000ft or above.	When instructed, contact GENEVA DEP 119.530.	Note: only for TFC DEST LFLB, LFLP, and by ATC.
DEPUL 4P PDG 5.4% to 5200ft	Climb on R044 GVA. When passing 5000ft but not before D2 GVA, turn left to PAS. When passing PAS, intercept R234 PAS. Proceed via ARGIS to DEPUL.	INITIAL CLIMB CLEARANCE FL090. Cross PAS at 7000ft or above. If CLR FL150 or above, cross ARGIS at FL130 or above, DEPUL at FL150 or above.	When instructed, contact GENEVA DEP 119.530.	
DEPUL 4T PDG 5.4% to 5200ft	Climb on R044 GVA. When passing 5000ft but not before D8 GVA, turn left to PAS. When passing PAS, intercept R234 PAS. Proceed via ARGIS to DEPUL.	INITIAL CLIMB CLEARANCE FL090. Cross PAS at 7000ft or above. If CLR FL150 or above, cross ARGIS at FL130 or above, DEPUL at FL150 or above.	When instructed, contact GENEVA DEP 119.530.	
MEDAM 5N/P/Q PDG 5.4% to 6100ft	Climb on R044 GVA. When passing 5000ft but not before D8 GVA, turn right. Establish TR184 to intercept R049 CBY. At GG604, turn left. Establish TR181 to intercept R141 PAS. Proceed via ESAPI, VANAS to MEDAM.	INITIAL CLIMB CLEARANCE FL090. Cross MNM FL according chart.	When instructed, contact GENEVA DEP 119.530.	
PASSEIRY 5P (PAS 5P) PDG 5.4% to 5200ft	Climb on R044 GVA. When passing 5000ft but not before D2 GVA, turn left to PAS.	INITIAL CLIMB CLEARANCE FL090. Cross PAS at 7000ft or above.	When instructed, contact GENEVA DEP 119.530.	
ROCCA 5N/P/Q PDG 5.4% to 6100ft	Climb on R044 GVA. When passing 5000ft but not before D8 GVA, turn right. Establish TR184 to intercept R049 CBY. At GG604, turn left. Establish TR181 to intercept R131 PAS. Proceed via GG605, ODIKI to ROCCA.	INITIAL CLIMB CLEARANCE FL090. Cross MNM FL according chart.	When instructed, contact GENEVA DEP 119.530.	Note: only for TFC DEST or overflying Italy planned below FL200 (G32).
SAINT-PREX 5N (SPR 5N) PDG 5.4% to 1600ft	Climb on R044 GVA. Proceed to SPR.	INITIAL CLIMB CLEARANCE FL090. Cross SPR at 7000ft or above.	When instructed, contact GENEVA DEP 119.530.	See notes below

Note 1: Traffic planned on N871, proceed via SPR to SOSAL; cross SPR at FL100 or above.

Note 2: Traffic planned on G5 (MAX FL090), proceed via SPR to FRI.

Note 3: Traffic destination LFSB:

- outside MIL OPERATING HOURS: after SPR expect route Y51 to BALIR, cross LORBU at FL110 or above.

Note 4: Traffic destination LSGC:

- outside MIL OPERATING HOURS: After SPR expect route Y51 to PALLU, cross LORBU at FL110 or above

DESIGNATOR	RWY 04			
	ROUTE			Remark
	Lateral	Vertical	Contact	
SIROD 7N PDG 5.4% to 1600ft	Climb on R044 GVA. When passing <i>7000ft</i> but not before D8 GVA, turn left. Establish TR356 to intercept R129 DJL. Proceed via KOVIM to SIROD.	INITIAL CLIMB CLEARANCE FL090. Cross D9.5 GVA at <i>4000ft</i> or above.	When instructed, contact GENEVA DEP 119.530.	See notes below

FPL via DJL:

Proceed via A1/UH10 to DJL, if CLR FL200 or above, cross D30 at DJL FL200 or above.

FPL via OBURO:

Proceed via Z124/UZ124 to OBURO, cross IBABA at FL220 or above. (Not available during LF-TRA24 activity; expect routing via A1/UH10 to DJL).

1.1.1.4 SID RWY 22 - NON RNAV

GENERAL INFORMATION AND REQUIREMENTS FOR ALL SIDs

- Close-in obstacles: Trees and poles each side of RCL up to 170 ft above DER ELEV.
- The SIDs are MNM noise routes.
- The MCAs specified in the SIDs are subject to airspace structure only. Published PDG do not guarantee maintaining of the MCAs.
- To expedite traffic, expect line-up clearances at INT unless operations require full RWY LEN (Declared distances, Ref [LSGG AD 2.13](#)).

1.1.1.4.1 STANDARD INSTRUMENT NON RNAV DEPARTURE ROUTES (see chart LSGG AD 2.24.7 - 7)

DESIGNATOR	RWY 22				
	ROUTE			Contact	Remark
	Lateral	Vertical			
BALSI 7A PDG 6.3% to 5400ft	Climb on R224 GVA. When passing 7000ft but not before D8 GVA (PAS), turn left to intercept R180 PAS. Proceed via RUMIL, BEVEN to BALSI.	INITIAL CLIMB CLEARANCE FL090. Cross D10 PAS at FL100 or above, RUMIL at FL120 or above, D22 PAS at FL150 or above, BALSI at FL200 or above.	When instructed, contact GENEVA DEP 119.530.		
CHAMBERY 1A (CBY 1A) PDG 4.9% to 3800ft	Climb on R224 GVA. At D8 GVA (PAS), turn left to intercept R209 PAS. Proceed to CBY.	INITIAL CLIMB CLEARANCE FL080.	When instructed, contact GENEVA DEP 119.530.	Note: only for TFC DEST LFLB, LFLP, and by ATC.	
DEPUL 4A PDG 6.3% to 5400ft	Climb on R224 GVA. When passing 7000ft but not before D8 GVA (PAS), turn right to intercept R234 PAS. Proceed via ARGIS to DEPUL.	INITIAL CLIMB CLEARANCE FL090. If CLR FL150 or above, cross ARGIS at FL130 or above, DEPUL at FL150 or above.	When instructed, contact GENEVA DEP 119.530.		
DIPIR 6A PDG 6.3% to 5400ft	Climb on R224 GVA. When passing 7000ft but not before D8 GVA (PAS), turn right to intercept R329 PAS (R149 DJL). Proceed via KELUK to DIPIR.	INITIAL CLIMB CLEARANCE FL090.	When instructed, contact GENEVA DEP 119.530.	See notes below	

FPL via DJL:

Proceed via B37 to DJL, if CLR FL200 or above, cross IBABA at FL200 or above.

FPL via ARBOS:

Proceed via V25 to ARBOS, cross LERDU at FL200 or above.

FPL via OBURO:

Proceed via B37 to IBABA, then UZ124 to OBURO, cross IBABA at FL220 or above. (Not available during LF-TRA24 activity; expect routing via B37 to DJL).

DESIGNATOR	RWY 22				
	ROUTE			Contact	Remark
	Lateral	Vertical			
KONIL 6A PDG 6.3% to 5400ft	Climb on R224 GVA. When passing 7000ft but not before D8 GVA (PAS), turn right to intercept QDM 040 GLA. Proceed via DEREM to GLA. When passing GLA, continue on QDR 041 GLA. Proceed to KONIL.	INITIAL CLIMB CLEARANCE FL090.	When instructed, contact GENEVA DEP 119.530.	See notes below	

Note 1: Traffic planned on N871, proceed:

- Z63 (KONIL SOSAL, FL100 or above), or on ATC request
- ALTN RTE Z62 (DEREM NAMEL TINAM, cross NAMEL at 9200ft or above).

Note 2: Traffic planned on G5 (MAX FL090), proceed on R247 FRI to FRI.

Note 3: Traffic destination LFSB:

- outside MIL OPERATING HOURS: after KONIL expect route Y51 to BALIR, cross LORBU at FL110 or above.

Note 4: Traffic destination LSGC:

- outside MIL OPERATING HOURS: After KONIL expect route Y51 to PALLU, cross LORBU at FL110 or above.

DESIGNATOR	RWY 22			
	ROUTE			
	Lateral	Vertical	Contact	Remark
KONIL 6C PDG 4.9% to 1900ft MNM climb gradient 11.5% to 4000ft to remain inside controlled airspace.	Climb on R224 GVA. When passing 1900ft but not before D3 GVA (D4.7 INBD PAS), turn right (MNM bank angle 25°, MAX IAS 190 kt until established on QDM 040 GLA), establish TR 030 to intercept QDM 040 GLA. Proceed via DEREM to GLA. When passing GLA, continue on QDR 041 GLA. Proceed to KONIL.	INITIAL CLIMB CLEARANCE FL090. Cross GLA at 4000ft or above, D18.0 GVA at 7000ft or above.	When instructed, contact GENEVA DEP 119.530.	Not AVBL to Jet ACFT with noise classification I, II and III, in accordance with AIP GEN 4.1 App A. See notes below

Note 1: Traffic planned on N871, proceed:

- Z63 (KONIL SOSAL, FL100 or above), or on ATC request
- ALTN RTE Z62 (DEREM NAMEL TINAM, cross DEREM at 7000ft or above, NAMEL at 9200ft or above).

Note 2: Traffic planned on G5 (MAX FL090), proceed on R247 FRI to FRI.

Note 3: Traffic destination LFSB:

- outside MIL OPERATING HOURS: after KONIL expect route Y51 to BALIR, cross LORBU at FL110 or above.

Note 4: Traffic destination LSGC:

- outside MIL OPERATING HOURS: after KONIL expect route Y51 to PALLU, cross LORBU at FL110 or above.

Note 5: Caution! High terrain North of AD. Do not fly North of QDM 040 GLA.

DESIGNATOR	RWY 22			
	ROUTE			
	Lateral	Vertical	Contact	Remark
KONIL 4D PDG 4.9% to 1900ft MNM climb gradient 11.5% to 4000ft to remain inside controlled airspace.	Climb on R224 GVA. When passing 1900ft but not before D3 GVA (D4.7 INBD PAS), turn right (MNM bank angle 25°, MAX IAS 190 kt until established on QDM 040 GLA), establish TR 030 to intercept QDM 040 GLA. Proceed via DEREM to GLA. When passing GLA, continue on QDR 041 GLA. Proceed to KONIL.	INITIAL CLIMB CLEARANCE 7000ft. Cross GLA at 4000ft or above, D18.0 GVA at 7000ft or above.	When instructed, contact GENEVA DEP 119.530.	Not AVBL to Jet ACFT with noise classification I, II and III, in accordance with AIP GEN 4.1 App A. See notes below

Note 1: Traffic planned on N871, proceed:

- Z63 (KONIL SOSAL, FL100 or above), or on ATC request
- ALTN RTE Z62 (DEREM NAMEL TINAM, cross NAMEL at 9200ft or above).

Note 2: Traffic planned on G5 (MAX FL090), proceed on R247 FRI to FRI.

Note 3: Traffic destination LFSB:

- outside MIL OPERATING HOURS: after KONIL expect route Y51 to BALIR, cross LORBU at FL110 or above.

Note 4: Traffic destination LSGC:

- outside MIL OPERATING HOURS: after KONIL expect route Y51 to PALLU, cross LORBU at FL110 or above.

Note 5: Caution! High terrain North of AD. Do not fly North of QDM 040 GLA.

DESIGNATOR	RWY 22			
	ROUTE			
	Lateral	Vertical	Contact	Remark
MEDAM 5A/B/C PDG 6.3% to 5400ft MNM climb gradient 8.0% to FL100 to remain inside controlled airspace.	Climb on R224 GVA. When passing 7000ft but not before D8 GVA (PAS), turn left to intercept R141 PAS. Proceed via ESAPI, VANAS to MEDAM.	INITIAL CLIMB CLEARANCE FL090. Cross MNM FL according chart.	When instructed, contact GENEVA DEP 119.530.	
ROCCA 5A/B/C PDG 6.3% to 5400ft MNM climb gradient 8.0% to FL100 to remain inside controlled airspace.	Climb on R224 GVA. When passing 7000ft but not before D8 GVA (PAS), turn left to intercept R131 PAS. Proceed via ODIKI to ROCCA.	INITIAL CLIMB CLEARANCE FL090. Cross MNM FL according chart.	When instructed, contact GENEVA DEP 119.530.	Note: Only for TFC DEST or overflying Italy planned below FL200 (G32).

1.2 Procedure for IFR approaches

ACFT type must be reported at first radio contact with "Geneva Arrival".

1.3 Approach procedures**1.3.1 Procedure description of RNP RWY 04 (LSGG AD 2.24.10 - 3)**

From INDIS						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
IF	INDIS	N	+7000	220	-	-
TF	BELKA	N	6000	-	044° (045.5°T)	3.1
TF	RW04	Y	-	-	044° (045.3°T)	14.3
TF	GG852	N	+4000	-	044° (045.5°T)	11.7
TF	SPR	Y	+7000	-	044° (045.4°T)	8.9

1.3.2 Procedure description of RNP RWY 22 (LSGG AD 2.24.10 - 9)

From SPR						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
IF	SPR	N	+7000	210	-	-
TF	GG811	N	-	-	224° (225.4°T)	7.7
TF	PETAL	N	-	-	224° (225.7°T)	0.9
TF	GG808	N	4000	-	224° (225.6°T)	2.0
TF	RW22	Y	-	-	224° (225.6°T)	8.1
TF	GG803	Y	-	-	224° (225.5°T)	9.2
DF	SPR	Y	+7000	185	-	-

1.4 ILS category III

The CAT III ILS (RWY 22) and the associated equipment are in compliance with ICAO SARPS.

1.5 Visual approaches by night

Due to high terrain, ATC will not initiate visual APCHs at night. Pilots familiar with the area may request visual APCHs at night. Requests will be APV subject to traffic conditions.

1.6 Runway Occupancy Time**Departures:**

- If not fully ready, TAX into the HLDG bay.
- Pilots should be fully ready for a rapid line-up in sequence in accordance with ATC instructions.
- Pilots should ensure that cockpit checks are CMPL and cabin secured prior to line-up and be able to initiate the TKOF roll immediately upon receiving TKOF clearance.

Arrivals:

- Pilots are reminded that rapid RWY vacating enables ATC to apply closer spacing on final APCH, allowing MAX RWY utilisation and minimising the occurrence of go-arounds.

2. Runway 04:

Exit TWYs to be used whenever possible:

For parking stands on South apron:

- Heavy ACFT: TWY C (1650 m from displaced THR) or TWY B (2350 m from displaced THR);
- Medium/Light/Small ACFT: TWY D (1300 m from displaced THR) or TWY C (1650 m from displaced THR).

For parking stands on North apron:

- Medium/Small/Light ACFT: TWY Y (1600 m from displaced THR).

3. Runway 22:

Exit TWYs to be used whenever possible:

For parking stands on South apron:

- Heavy/Medium/Light/Small ACFT: TWY D (2000 m from THR) or TWY E (2600 m from THR).
TWY C shall not be used, except on ATC instruction.

For parking stands on North apron:

- Medium/Light/Small ACFT: TWY Y (1800 m from THR).

1.7 STAR Descriptions

GENERAL INFORMATIONS AND REQUIREMENTS FOR RNAV STARs

- No turn onto base unless cleared by ATC.
- All STARs contain a HLDG pattern. HLDG procedures are only applied when requested by ATC. Expect radar vectors to final APCH RWY 04/22.
- ACFT cleared for an RNAV STAR may proceed beyond the IAF in accordance with the STAR.

1.7.1 STAR RWY 04 - RNAV (see chart AD 2.24.9 - 1 / - 3 / - 5)

RNAV STAR AKITO 2N						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
IF	AKITO	N				
TF	GG518	N	-	-	220° (221.9°T)	24.6
TF	BOLGI	N	-	-	220° (221.8°T)	19.3
TF	LIRKO	N	+8000	250	220° (221.5°T)	7.7
TF	DINIG	N	-	-	143° (145.2°T)	5.5
TF	SOVAD	N	+8000	-	143° (145.3°T)	11.5
TF	KERAD	N	-	-	223° (225.4°T)	8.7
TF	GG503	N	-	220	223° (225.3°T)	11.9
FM	GG503	N	-	-	223° (225.3°T)	-

RNAV STAR DJL 2N						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
IF	DJL	N		-		-
TF	GG517	N	-	-	143° (144.7°T)	24.3
TF	LIRKO	N	+8000	-	143° (144.9°T)	27.0
TF	DINIG	N	-	-	143° (145.2°T)	5.5
TF	SOVAD	N	+8000	250	143° (145.3°T)	11.5
TF	KERAD	N	-	-	223° (225.4°T)	8.7
TF	GG503	N	-	220	223° (225.3°T)	11.9
FM	GG503	N	-	-	223° (225.3°T)	-

RNAV STAR LUSAR 2N						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
IF	LUSAR	N	+FL200	-	-	-
TF	SAUNI	N	+FL160	-	100° (102.3°T)	12.6
TF	LIRKO	N	+8000	-	101° (102.7°T)	14.3
TF	DINIG	N	-	-	143° (145.2°T)	5.5
TF	SOVAD	N	+8000	250	143° (145.3°T)	11.5
TF	KERAD	N	-	-	223° (225.4°T)	8.7
TF	GG503	N	-	220	223° (225.3°T)	11.9
FM	GG503	N	-	-	223° (225.3°T)	-

RNAV STAR ULMES 1R						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
IF	ULMES	N	-	-	-	-
TF	ESEVA	N	-	-	229° (231.4°T)	14.7
TF	VADAR	N	-	-	229° (231.2°T)	13.8
TF	SPR	N	-	-	226° (228.3°T)	17.0

RNAV STAR BANKO 3R						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
IF	BANKO	N	-	-	-	-
TF	GG520	N	+FL180	-	302° (304.4°T)	14.5
TF	GOLEB	N	-	-	302° (303.7°T)	10.3
TF	VALBU	N	+FL140	-	302° (304.2°T)	3.7
TF	SUVEL	N	+FL110	-	302° (304.2°T)	7.0
TF	BIVLO	N	+7000	250	302° (304.1°T)	4.9
TF	GG525	N	-	-	044° (045.5°T)	8.7
TF	GG512	N	-	220	044° (045.7°T)	8.5
FM	GG512	N	-	-	044° (045.7°T)	-

RNAV STAR BELUS 3R						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
IF	BELUS	N	-	-	-	-
TF	RILTI	N	-FL180	-	027° (028.9°T)	5.7
TF	CBY	N	-	-	027° (029.0°T)	8.5
TF	GG502	N	+FL100	-	052° (053.9°T)	7.3
TF	PITOM	N	MNM 7000 MAX FL150	-	043° (045.0°T)	12.0
TF	BIVLO	N	+7000	-	044° (045.8°T)	8.8
TF	GG525	N	-	-	044° (045.5°T)	8.7
TF	GG512	N	-	220	044° (045.7°T)	8.5
FM	GG512	N	-	-	044° (045.7°T)	-

RNAV STAR KINES 2R						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
IF	KINES	N	-	-	-	-
TF	GG519	N	-	-	347° (349.2°T)	12.0
TF	ROCCA	N	-	-	348° (349.7°T)	13.3
TF	GOLEB	N	-	-	347° (349.3°T)	18.7
TF	VALBU	N	+FL140	-	302° (304.2°T)	3.7
TF	SUVEL	N	+FL110	-	302° (304.2°T)	7.0
TF	BIVLO	N	+7000	250	302° (304.1°T)	4.9
TF	GG525	N	-	-	044° (045.5°T)	8.7
TF	GG512	N	-	220	044° (045.7°T)	8.5
FM	GG512	N	-	-	044° (045.7°T)	-

1.7.2.1 STANDARD INSTRUMENT RNAV ARRIVAL ROUTES (see chart AD 2.24.9 - 7 / - 9/ - 11)

DESIGNATOR	RWY 22		
	ROUTE		Remark
	Lateral	Vertical	
AKITO 3R	From AKITO proceed via GG518, BOLGI, LIRKO (MAX IAS 250kt, MNM bank angle 25°), DINIG (IAF), SOVAD (MAX IAS 250kt), GG507, GG514 (MAX IAS 220kt). Continue on track. On ATC instruction, proceed to SPR (IF, MAX IAS 210kt). Intercept FINAL APCH 22.	Refer to chart	
BANKO 3R	From BANKO proceed via GG520, GOLEB (IAF), VALBU, SUVEL, BIVLO (MAX IAS 250kt), GG525, GG512 (MAX IAS 220kt). Continue on track. On ATC instruction, proceed to SPR (IF, MAX IAS 210kt). Intercept FINAL APCH 22.	Refer to chart	
BELUS 3R	From BELUS proceed via RILTI, CBY (IAF), GG502, PITOM, BIVLO, GG525, GG512 (MAX IAS 220kt). Continue on track. On ATC instruction, proceed to SPR (IF, MAX IAS 210kt). Intercept FINAL APCH 22.	Refer to chart	
BENOT 1R	From BENOT proceed via NEMOS (IAF), VADAR, SPR (IF) to FINAL APCH 22.	Refer to chart	
BENOT 1T	From BENOT proceed via NEMOS (IAF), VEROX, SPR (IF, MAX IAS 210kt) to FINAL APCH 22.	Refer to chart	
DIJON 2R (DJL 2R)	From DJL proceed via GG517, LIRKO, DINIG (IAF), SOVAD (MAX IAS 250kt), GG507, GG514 (MAX IAS 220kt). Continue on track. On ATC instruction, proceed to SPR (IF, MAX IAS 210kt). Intercept FINAL APCH 22.	Refer to chart	
KINES 2R	From KINES proceed via GG519, ROCCA, GOLEB (IAF), VALBU, SUVEL, BIVLO (MAX IAS 250kt), GG525, GG512 (MAX IAS 220kt). Continue on track. On ATC instruction, proceed to SPR (IF, MAX IAS 210kt). Intercept FINAL APCH 22.	Refer to chart	
LUSAR 2R	From LUSAR proceed via SAUNI, LIRKO, DINIG (IAF), SOVAD (MAX IAS 250kt), GG507, GG514 (MAX IAS 220kt). Continue on track. On ATC instruction, proceed to SPR (IF, MAX IAS 210kt). Intercept FINAL APCH 22.	Refer to chart	
ULMES 1R	From ULMES proceed via ESEVA, VADAR (IAF), SPR (IF) to FINAL APCH 22.	Refer to chart	

2. VFR procedures (Including non-radio ACFT)

Refer to VFR Manual, LSGG AD INFO.

3. Minima for IFR departures (TKOF minima)

RWY	ACFT CAT	VIS (m) / Ceiling (ft AGL)			RMK
		No LGT AVBL	REDL or RCLL AVBL	REDL and RCLL AVBL	
All	A	500/---	250/---	150/---	NIL
	B	600/---	300/---	150/---	NIL
	C	600/---	300/---	150/---	NIL
	D	800/---	400/---	200/---	NIL

LSGG AD 2.23 ADDITIONAL INFORMATION

1. List of significant points (Terminal)

NAV point	COORD WGS84		Purpose
	LAT	LONG	
1	2		3
AKITO	N 47 12 48.0	E 006 38 55.5	RNAV STAR LSGG
ARBOS	N 46 59 03.0	E 006 01 35.0	NON RNAV SID LSGG/OMNI DEP LSGG
ARGIS	N 45 58 15.6	E 005 35 56.7	NON RNAV SID LSGG/OMNI DEP LSGG
BALSI	N 45 28 38.6	E 005 57 38.8	NON RNAV SID LSGG/OMNI DEP LSGG
BELKA	N 46 03 40.1	E 005 51 02.1	RNAV STAR LSGG
BELUS	N 45 40 30.7	E 005 35 37.7	RNAV STAR LSGG/OMNI DEP LSGG
BEVEN	N 45 41 18.5	E 005 58 21.8	NON RNAV SID LSGG/OMNI DEP LSGG
BOLGI	N 46 40 03.7	E 005 56 17.6	RNAV STAR LSGG
CBY	N 45 52 54.8	E 005 45 26.3	NON RNAV SID LSGG/RNAV STAR LSGG/OMNI DEP LSGG
DEPUL	N 45 55 30.0	E 005 29 40.0	NON RNAV SID LSGG/OMNI DEP LSGG
DIPIR	N 46 40 09.1	E 005 35 35.1	NON RNAV SID LSGG/OMNI DEP LSGG
DJL	N 47 16 14.8	E 005 05 50.4	NON RNAV SID LSGG/RNAV STAR LSGG/OMNI DEP LSGG
GG502*	N 45 57 13.8	E 005 53 56.6	RNAV STAR LSGG
GG503*	N 46 05 44.6	E 005 41 48.8	RNAV STAR LSGG
GG507*	N 46 26 27.1	E 006 11 59.6	RNAV STAR LSGG
GG510*	N 45 46 22.8	E 005 48 10.6	RNAV STAR LSGG
GG512*	N 46 23 49.8	E 006 32 56.5	RNAV STAR LSGG
GG514*	N 46 32 24.7	E 006 20 48.9	RNAV STAR LSGG
GG517*	N 46 56 22.8	E 005 26 22.1	RNAV STAR LSGG
GG518*	N 46 54 25.7	E 006 14 56.3	RNAV STAR LSGG
GG519*	N 45 31 38.5	E 006 42 07.3	RNAV STARS LSGG
GG520*	N 45 57 22.9	E 006 46 05.8	RNAV STAR LSGG
GG525*	N 46 17 53.5	E 006 24 08.0	RNAV STAR LSGG
GG602*	N 46 06 58.8	E 006 04 01.8	RNAV SID LSGG
GG603*	N 46 16 07.0	E 006 03 28.0	RNAV SID LSGG
GG604*	N 46 12 06.7	E 006 18 31.5	NON RNAV SID LSGG
GG605*	N 45 58 33.2	E 006 17 29.9	NON RNAV SID LSGG
GG803*	N 46 08 34.5	E 005 58 10.9	RNP IAC RWY22 LSGG
GG808*	N 46 20 41.0	E 006 15 57.4	RNP IAC RWY22 LSGG
GG811*	N 46 22 42.9	E 006 18 57.5	RNP IAC RWY22 LSGG
GG852*	N 46 21 52.8	E 006 17 43.5	RNP IAC RWY04 LSGG
IBABA	N 46 52 38.0	E 005 25 15.0	OMNI DEP LSGG
INDIS	N 46 01 28.0	E 005 47 49.2	RNAV STAR LSGG
KELUK	N 46 33 20.0	E 005 41 08.0	NON RNAV SID LSGG/OMNI DEP LSGG
KERAD	N 46 14 07.1	E 005 53 57.5	RNAV STAR LSGG
KOVIM	N 46 36 52.6	E 006 12 22.8	NON RNAV SID LSGG/OMNI DEP LSGG
LEGVO	N 46 40 04.5	E 006 17 08.0	NON RNAV SID LSGG/OMNI DEP LSGG
LINNA	N 45 49 01.7	E 005 58 48.1	NON RNAV SID LSGG/OMNI DEP LSGG
LTP	N 45 29 20.3	E 005 26 20.6	RNAV STAR LSGG
PINOT	N 45 59 07.6	E 005 55 33.5	IAC ILS RWY 04 LSGG
PITOM	N 46 05 41.0	E 006 06 07.0	RNAV STAR LSGG
RILTI	N 45 45 30.1	E 005 39 33.9	RNAV STAR LSGG
SAUNI	N 46 37 25.3	E 005 28 39.7	RNAV STAR LSGG

* Clearance to one of these waypoints: „Cleared to waypoint 502”

2. Advanced Surface Movement Guidance and Control System A-SMGCS

The A-SMGCS at Genève AP is supported by SMR and Mode S multilateration, which provides ACFT PSN information and IDENT to "TWR", "Ground" and "Apron Control". These units will pass information and instructions on the appropriate frequencies REF: LSGG AD 2.18.

ACFT operators intending to use Genève AP shall ensure that Mode S transponders are able to operate when an ACFT is on the ground, transmitting Mode S squitter and replying to Mode S addressed interrogations only.

When an ACFT is on the ground, the transponder shall be inhibited to reply to Mode S all-call interrogations and replies to Mode A/C interrogations shall also be suppressed.

FLT crew shall select the assigned Mode A (squawk) code and activate the Mode S transponder on request for push-back or TAX, whichever is first, and after LDG until RCH the ACFT stand. The transponder shall be switched off immediately after parking.

Activation of a Mode S transponder normally means selecting the AUTO or XPDR PSN and transponders provided with on-the-ground sensors are automatically switched to this function before TKOF and after LDG. If using a transponder not fitted with an on-the-ground-sensor then refer to the operator's guide. Selection of STAND-BY mode will not activate the Mode S transponder and selecting ON could override the required suppression of SSR Mode A replies and Mode S all-call replies when an ACFT is on the ground.

3. Bird Hazard and Wildlife Management Services

Bird hazard and wildlife management services operate within the AP BDRY and up to 500ft AGL.

A system is installed to prevent bird-strikes. It comprises 40 remote-controlled multiple detonation cannons on both side of the CONC RWY. Crews may request its activation by contacting ATC.

In accordance with ICAO, following any collision with an animal, a "Bird Strike Report" shall be CMPL by the crew involved.

LSGG AD 2.24 CHARTS RELATED TO AN AERODROME

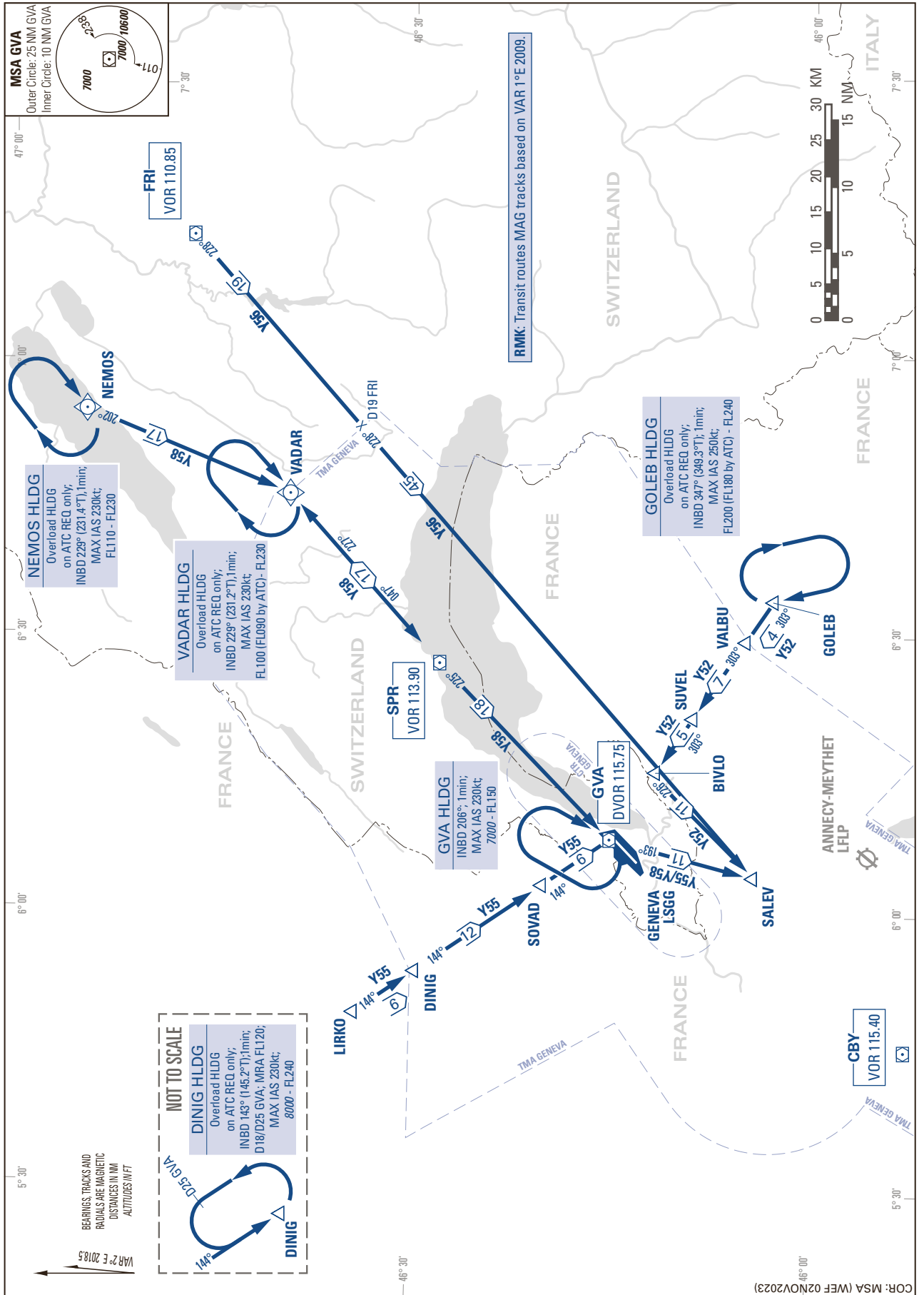
Name	Page
Aerodrome Chart	LSGG AD 2.24.1 - 1
Aircraft Parking/Docking Chart - Area South	LSGG AD 2.24.2 - 1
Aerodrome Ground Movement Chart - Area South East	LSGG AD 2.24.3 - 1
Aerodrome Ground Movement Chart - Area North	LSGG AD 2.24.3 - 3
Aerodrome Obstacle Chart - Type A - RWY 04	LSGG AD 2.24.4 - 1
Aerodrome Obstacle Chart - Type A - RWY 22	LSGG AD 2.24.4 - 3
Precision Approach Terrain Chart - RWY 22	LSGG AD 2.24.5 - 1
Area Chart - Transit Routes (through Geneva TMA to LFLB / LFLP)	LSGG AD 2.24.6 - 1
Area Chart - Transit Routes (after KONIL / SPR / MOLUS departures)	LSGG AD 2.24.6 - 3
Area Chart - Transit Routes (after SID SIROD / DIPIR departures)	LSGG AD 2.24.6 - 5
SID RWY 04 - RNAV	LSGG AD 2.24.7 - 1
SID RWY 22 - RNAV	LSGG AD 2.24.7 - 3
SID RWY 04 - NON RNAV	LSGG AD 2.24.7 - 5
SID RWY 22 - NON RNAV	LSGG AD 2.24.7 - 7
OMNIDIRECTIONAL DEPARTURES RWY 04/22	LSGG AD 2.24.7 - 9
STAR RWY 04 - RNAV - (LUSAR - DJL - AKITO)	LSGG AD 2.24.9 - 1
STAR RWY 04 - RNAV - (BENOT - ULMES)	LSGG AD 2.24.9 - 3
STAR RWY 04 - RNAV - (BELUS - KINES - BANKO)	LSGG AD 2.24.9 - 5
STAR RWY 22 - RNAV - (LUSAR - DJL - AKITO)	LSGG AD 2.24.9 - 7
STAR RWY 22 - RNAV - (BENOT - ULMES)	LSGG AD 2.24.9 - 9
STAR RWY 22 - RNAV - (BELUS - KINES - BANKO)	LSGG AD 2.24.9 - 11
IAC ILS RWY 04	LSGG AD 2.24.10 - 1
IAC RNP RWY 04	LSGG AD 2.24.10 - 3
IAC SRA RWY 04	LSGG AD 2.24.10 - 5
IAC ILS RWY 22 CAT II/III	LSGG AD 2.24.10 - 7
IAC RNP RWY 22	LSGG AD 2.24.10 - 9
IAC SRA RWY 22	LSGG AD 2.24.10 - 11
ATC SURVEILLANCE MINIMUM ALTITUDE CHART (AD temperatures - 8° to 1° C)	LSGG AD 2.24.13 - 1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART (AD temperatures 2° C and above)	LSGG AD 2.24.13 - 3

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AREA CHART - ICAO

TRANSIT ROUTES THROUGH GENEVA TMA,
DESTINATION LFLB and LFLP

GENEVA LSGG

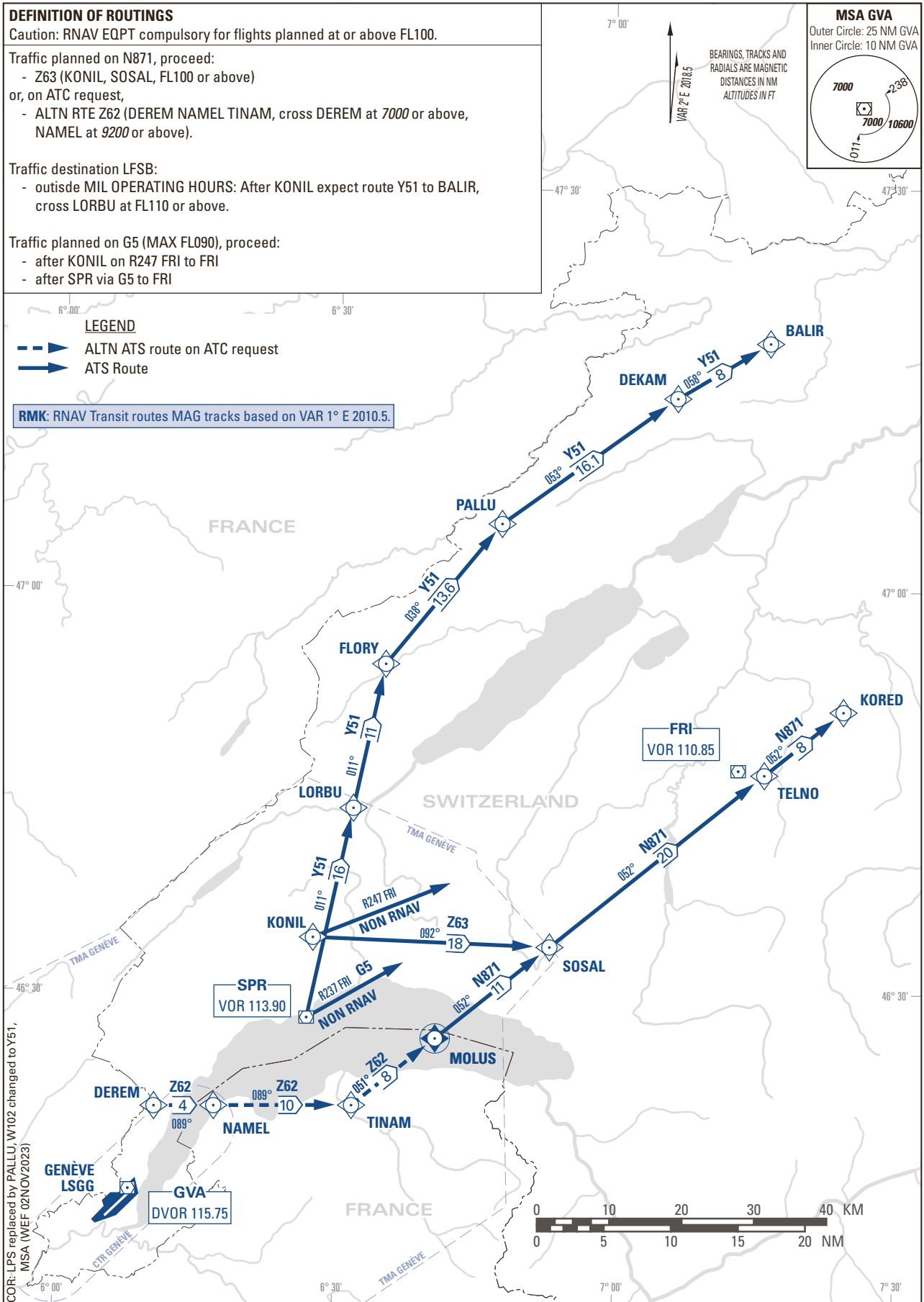


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AREA CHART - ICAO

ROUTING AFTER KONIL / SPR / MOLUS DEPARTURES

GENEVA - LSGG



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AREA CHART - ICAO

ROUTING AFTER SID SIROD / DIPIR DEPARTURES

GENEVA - LSGG

DEFINITION OF ROUTINGS

Caution: RNAV EQPT compulsory for flights planned at or above FL100.

After DIPIR DEP:

FPL via DJL:
- proceed via B37 to DJL, if CLR FL200 or above, cross IBABA at FL200 or above.

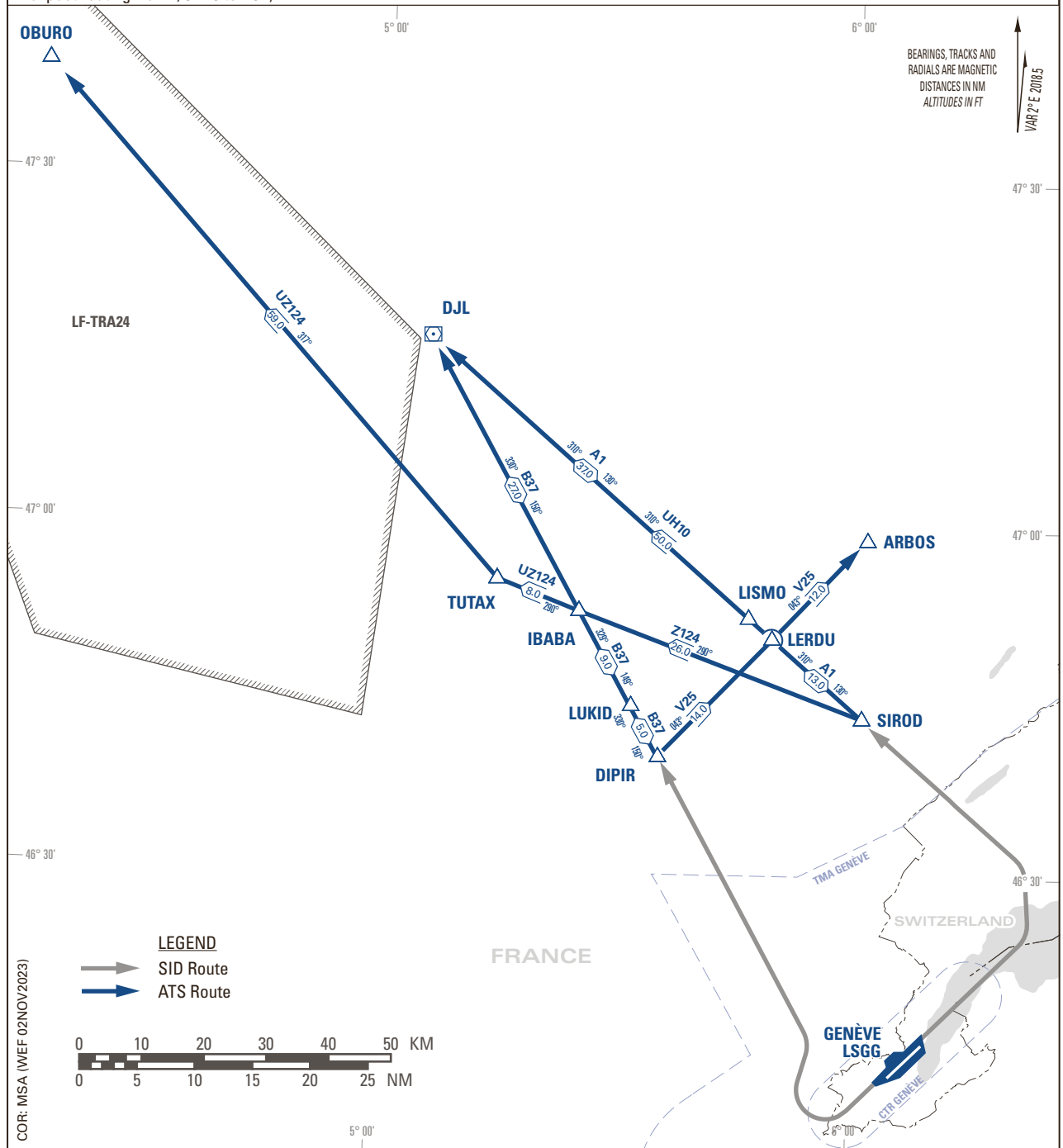
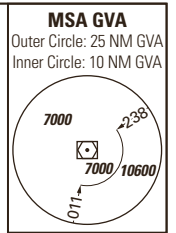
FPL via ARBOS:
- proceed via V25 to ARBOS, cross LERDU at FL200 or above.

FPL via OBURO:
- proceed via B37 to IBABA then UZ124 to OBURO, cross IBABA at FL220 or above. (Not available during LF-TRA24 activity; expect routing via B37 to DJL).

After SIROD DEP:

FPL via DJL:
- proceed via A1/UH10 to DJL, if CLR FL200 or above, cross D30 DJL at FL200 or above.

FPL via OBURO:
- proceed via Z124/UZ124 to OBURO, cross IBABA at FL220 or above. (Not available during LF-TRA24 activity; expect routing via A1/UH10 to DJL).



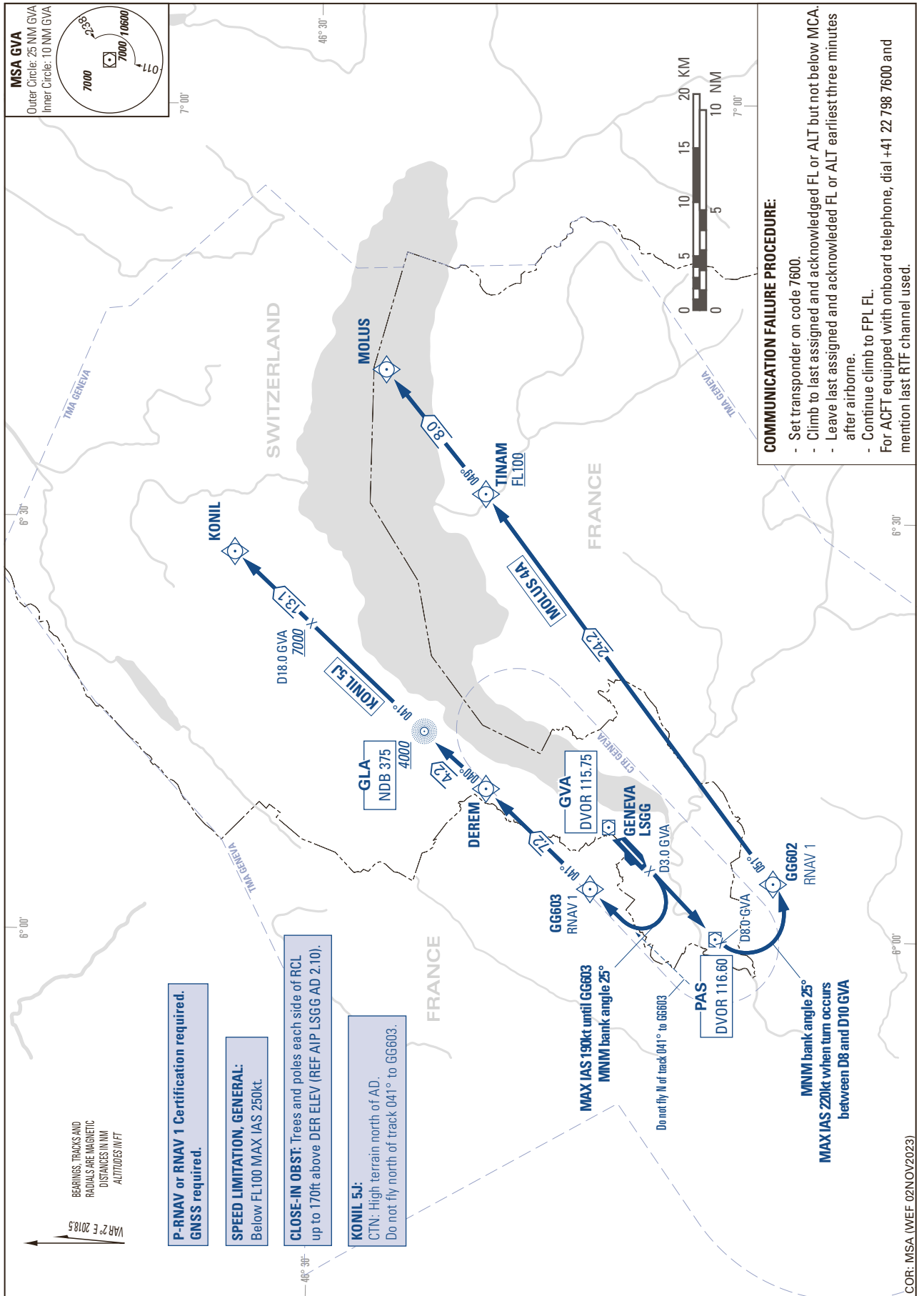
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STANDARD INSTRUMENT DEPARTURE CHART
(SID) - ICAO

TRANSITION LEVEL by ATC
TRANSITION ALTITUDE 7000

GENEVA - LSGG
SID RWY 22 - RNAV

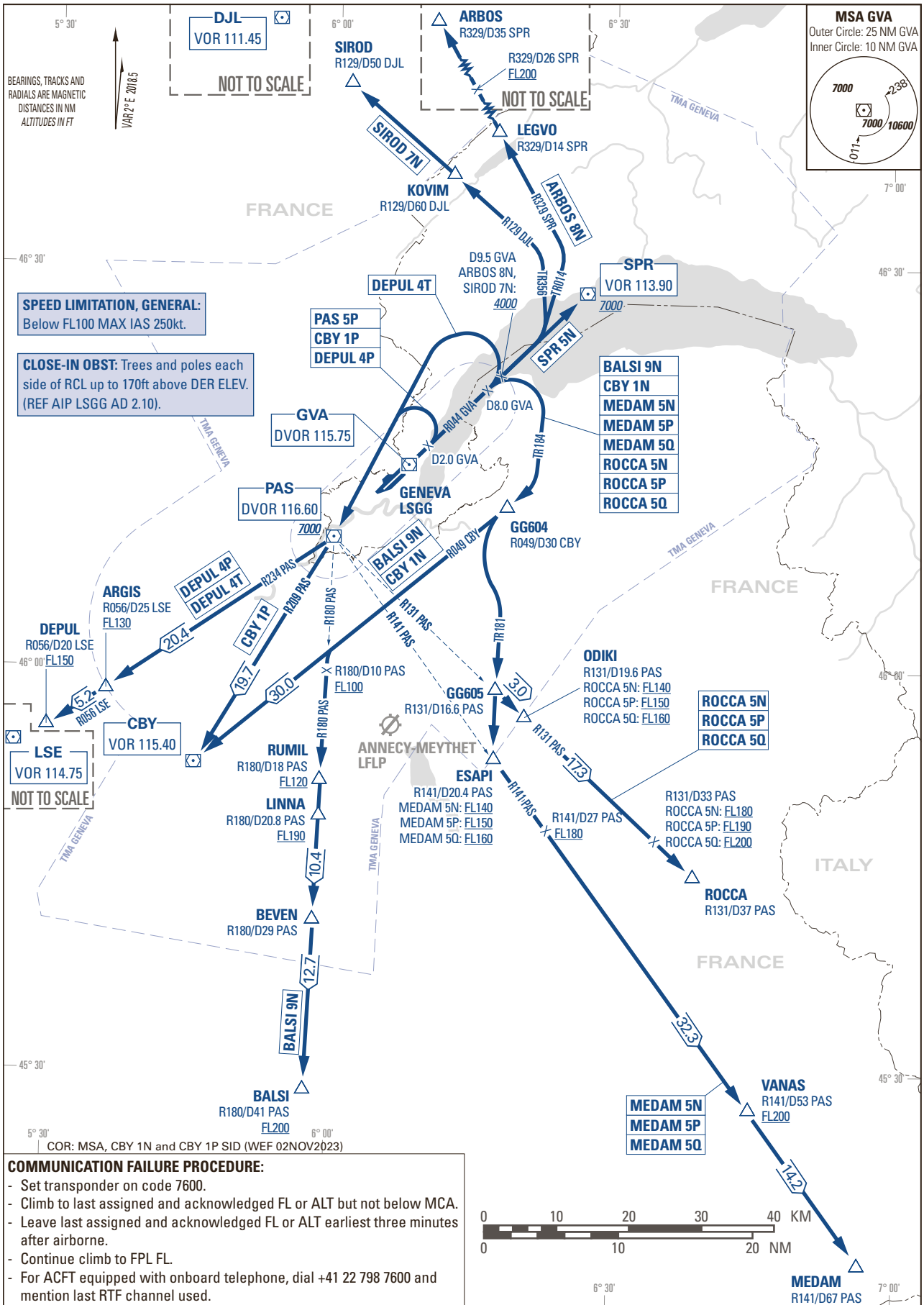


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STANDARD INSTRUMENT DEPARTURE CHART (SID) - ICAO

TRANSITION LEVEL by ATC
TRANSITION ALTITUDE 7000

GENEVA LSGG
SID RWY 04 - NON RNAV



COMMUNICATION FAILURE PROCEDURE:

- Set transponder on code 7600.
- Climb to last assigned and acknowledged FL or ALT but not below MCA.
- Leave last assigned and acknowledged FL or ALT earliest three minutes after airborne.
- Continue climb to FPL FL.
- For ACFT equipped with onboard telephone, dial +41 22 798 7600 and mention last RTF channel used.

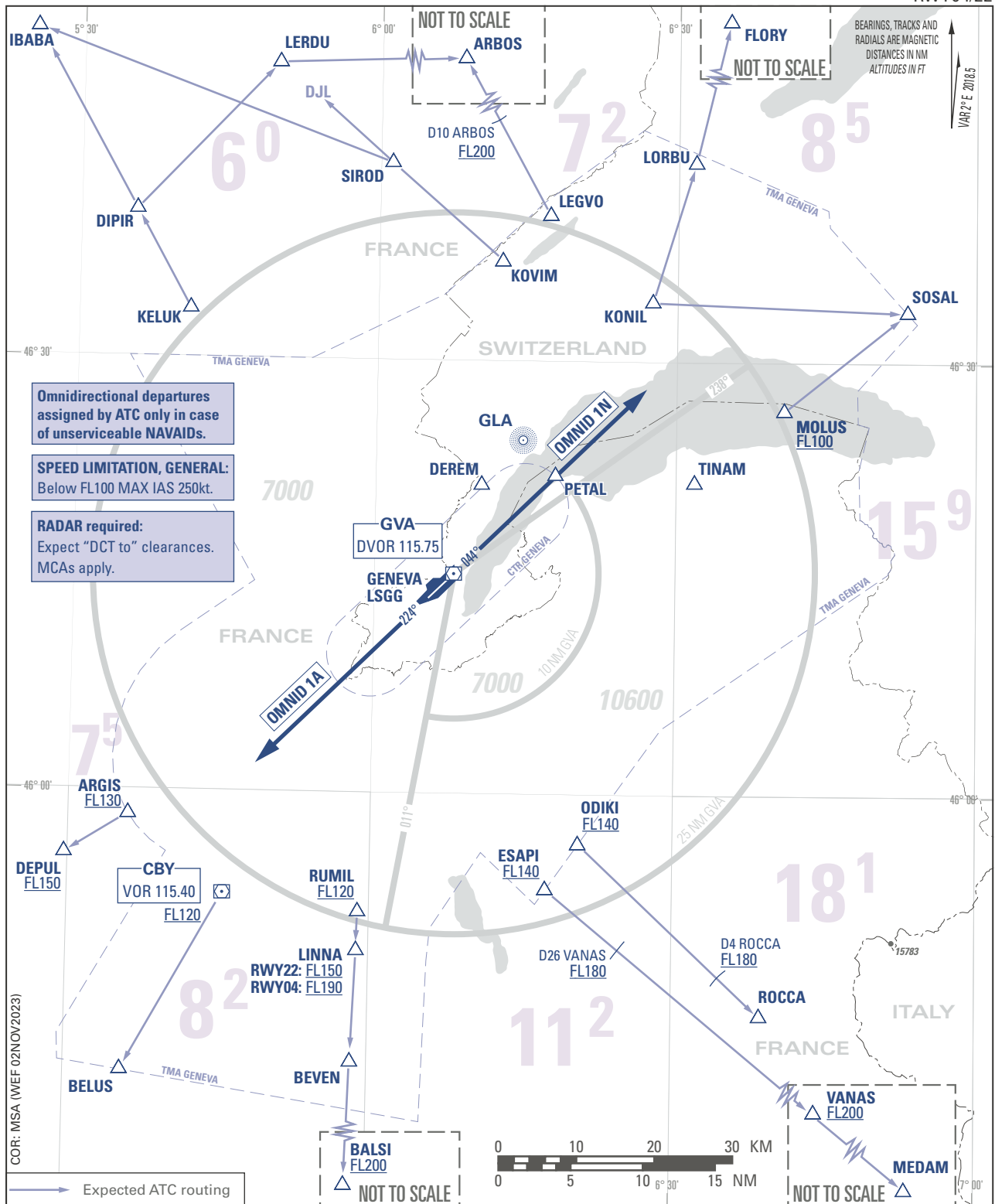
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OMNIDIRECTIONAL DEPARTURE CHART

TRANSITION LEVEL by ATC
TRANSITION ALTITUDE 7000

GENEVA LSGG
OMNIDIRECTIONAL DEPARTURES
RWY04/22



Omnidirectional departures assigned by ATC only in case of unserviceable NAVAIDS.

SPEED LIMITATION, GENERAL:
Below FL100 MAX IAS 250kt.

RADAR required:
Expect "DCT to" clearances.
MCAs apply.

COR: MSA (WEF 02NOV2023)

Expected ATC routing

COMMUNICATION FAILURE PROCEDURE:

- Set transponder on code 7600.
- Climb to FL090 or last assigned and acknowledged FL.
- Leave last assigned and acknowledged FL earliest three minutes after airborne.
- Continue climb to FPL FL and proceed to first en-route point according to FPL but not below grid AMA.
- For ACFE equipped with onboard telephone, dial +41 22 798 7600 and mention last RTF channel used.

Initial climb clearance: **FL090**

RWY 04: OMNID 1N PDG 5.4% to 6100ft.	Climb straight ahead on track 044° to FL090, continue to en-route as cleared by ATC.
RWY 22: OMNID 1A PDG 7.6% to 6200ft.	Climb straight ahead on track 224° to FL090, continue to en-route as cleared by ATC.

CLOSE-IN OBST: RWY 04/22 - Trees and poles each side of RWY centre line up to 170ft AGL above DER ELEV (REF AIP LSGG AD 2.10).

Notes:

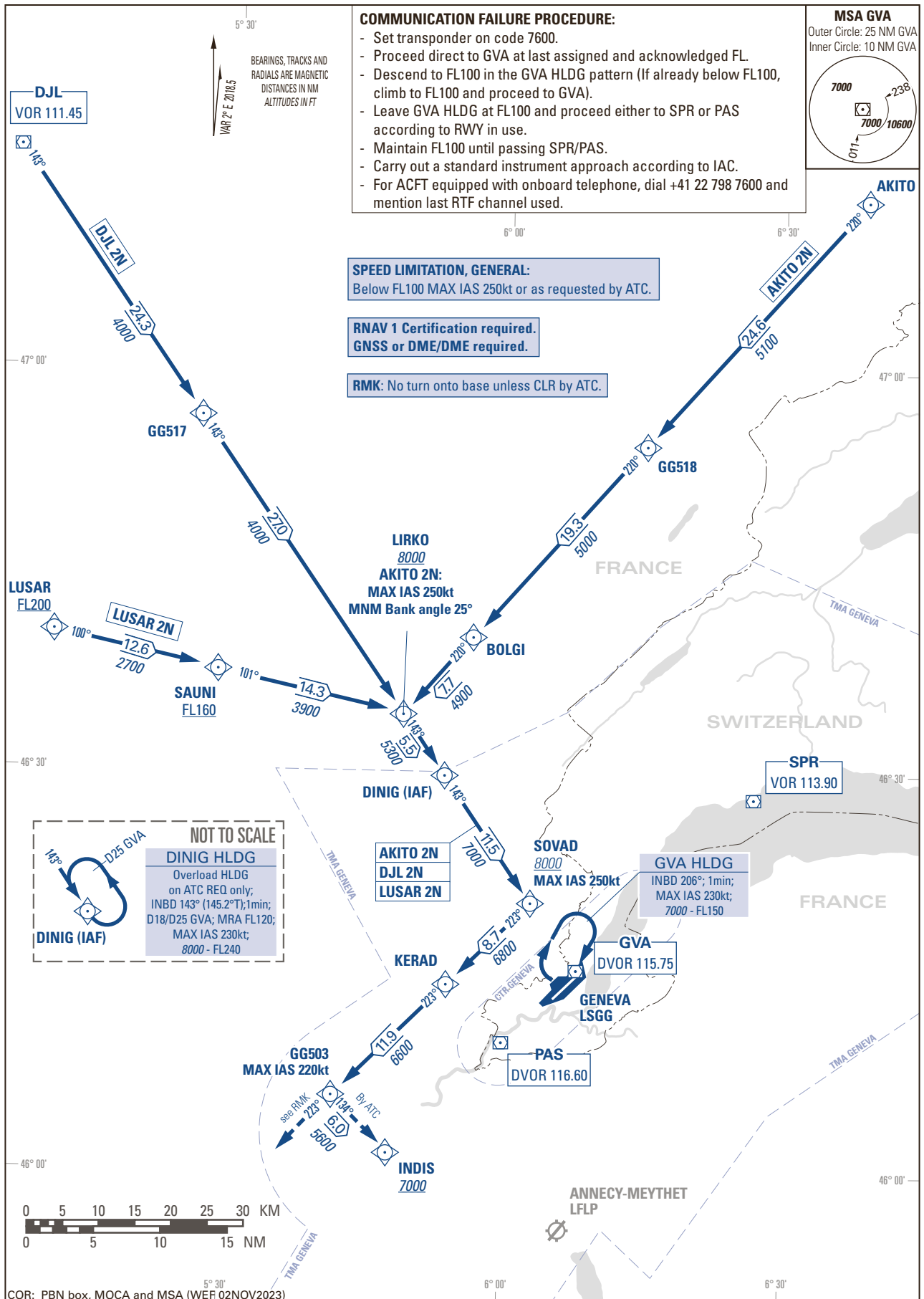
- Strict adherence to initial climb nominal track required for noise abatement.
- For expected ATC routing REF AIP LSGG AD 2.22 §1.1.2.

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STANDARD INSTRUMENT ARRIVAL CHART
(STAR) - ICAO

TRANSITION LEVEL by ATC
TRANSITION ALTITUDE 7000

GENEVA LSGG
STAR RWY 04 - RNAV
LUSAR - DJL - AKITO



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STANDARD INSTRUMENT ARRIVAL CHART
(STAR) - ICAO

TRANSITION LEVEL by ATC
TRANSITION ALTITUDE 7000

GENEVA LSGG
STAR RWY 04 - RNAV
BENOT - ULMES

COMMUNICATION FAILURE PROCEDURE:

- Set transponder on code 7600.
- Proceed direct to GVA at last assigned and acknowledged FL.
- Descend to FL100 in the GVA HLDG pattern (If already below FL100, climb to FL100 and proceed to GVA).
- Leave GVA HLDG at FL100 and proceed either to SPR or PAS according to RWY in use.
- Maintain FL100 until passing SPR/PAS.
- Carry out a standard instrument approach according to IAC.
- For ACFE equipped with onboard telephone, dial +41 22 798 7600 and mention last RTF channel used.

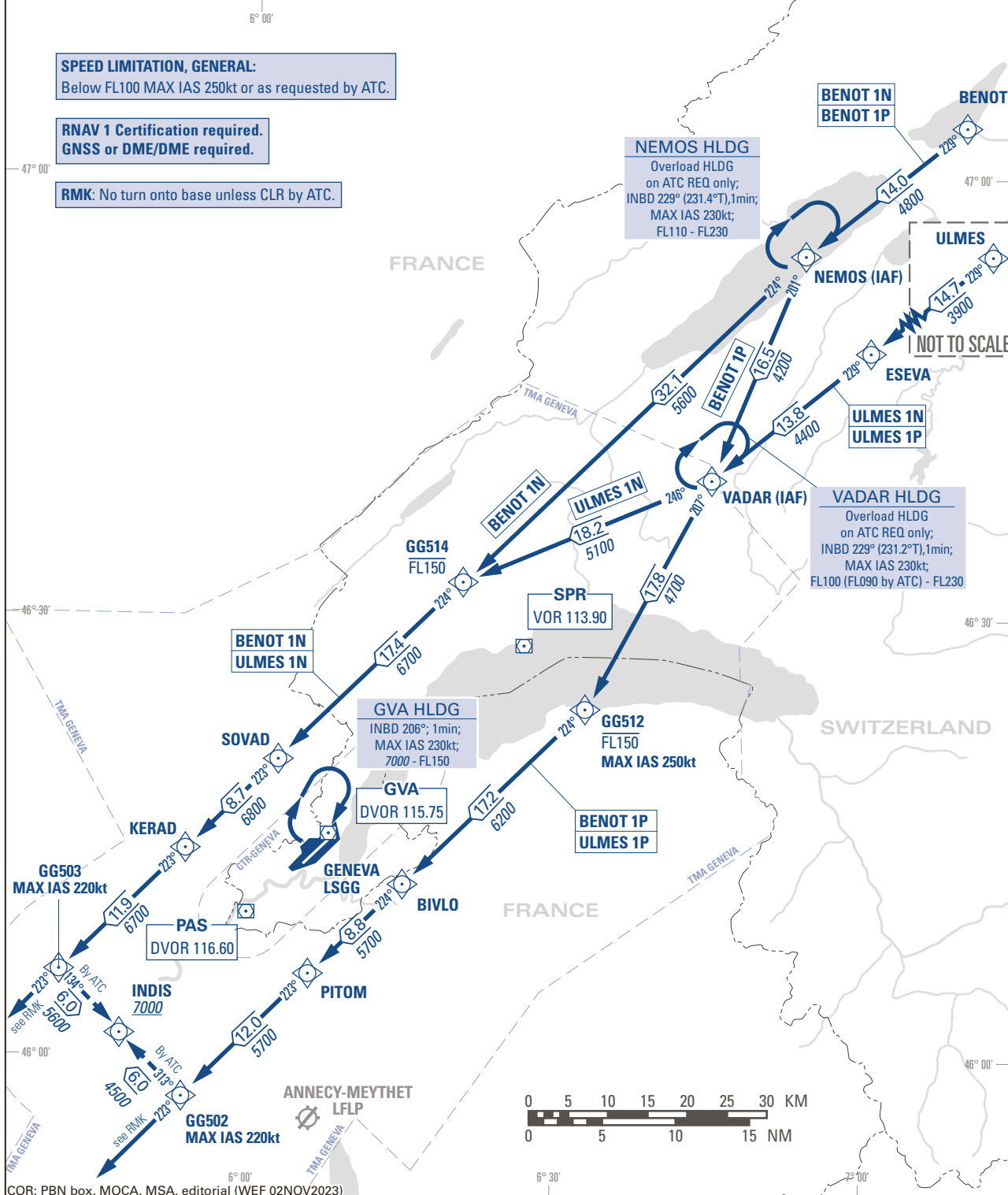
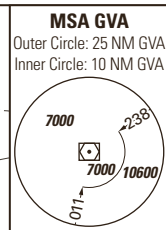
SPEED LIMITATION, GENERAL:
Below FL100 MAX IAS 250kt or as requested by ATC.

RNAV 1 Certification required.
GNSS or DME/DME required.

RMK: No turn onto base unless CLR by ATC.

VAR 2° E 2018.5

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
DISTANCES IN NM
ALTITUDES IN FT



COR: PBN box, MOCA, MSA, editorial (WEF 02NOV2023)

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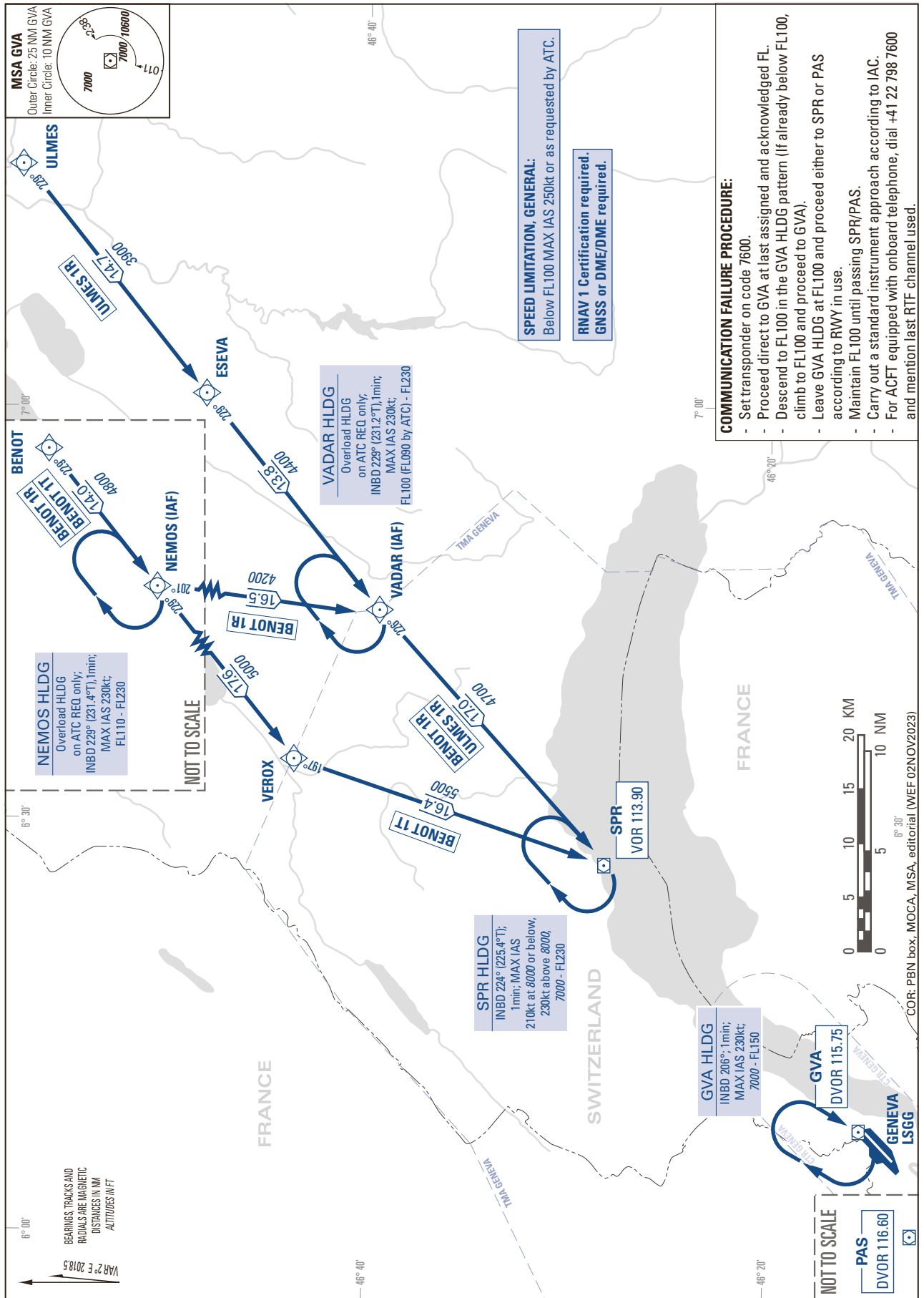
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STANDARD INSTRUMENT ARRIVAL CHART
(STAR) - ICAO

TRANSITION LEVEL by ATC
TRANSITION ALTITUDE 7000

GENEVA LSGG
STAR RWY 22 - RNAV
BENOT - ULMES



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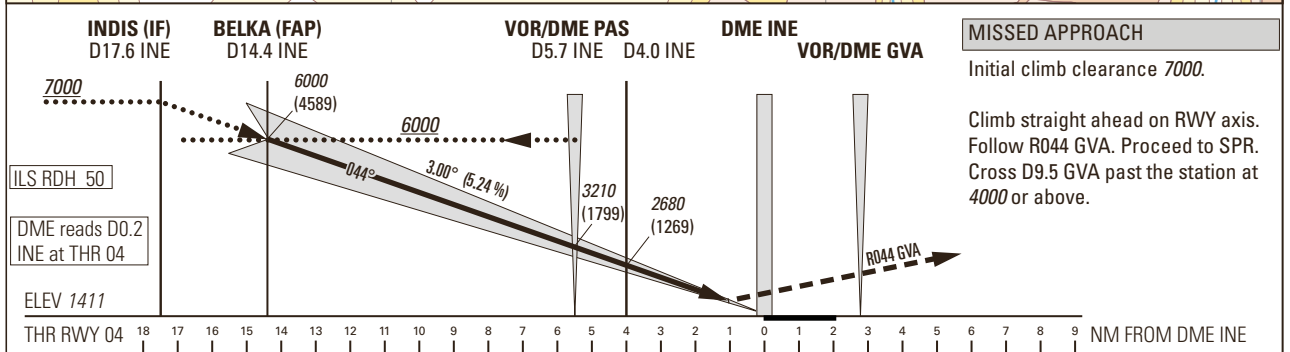
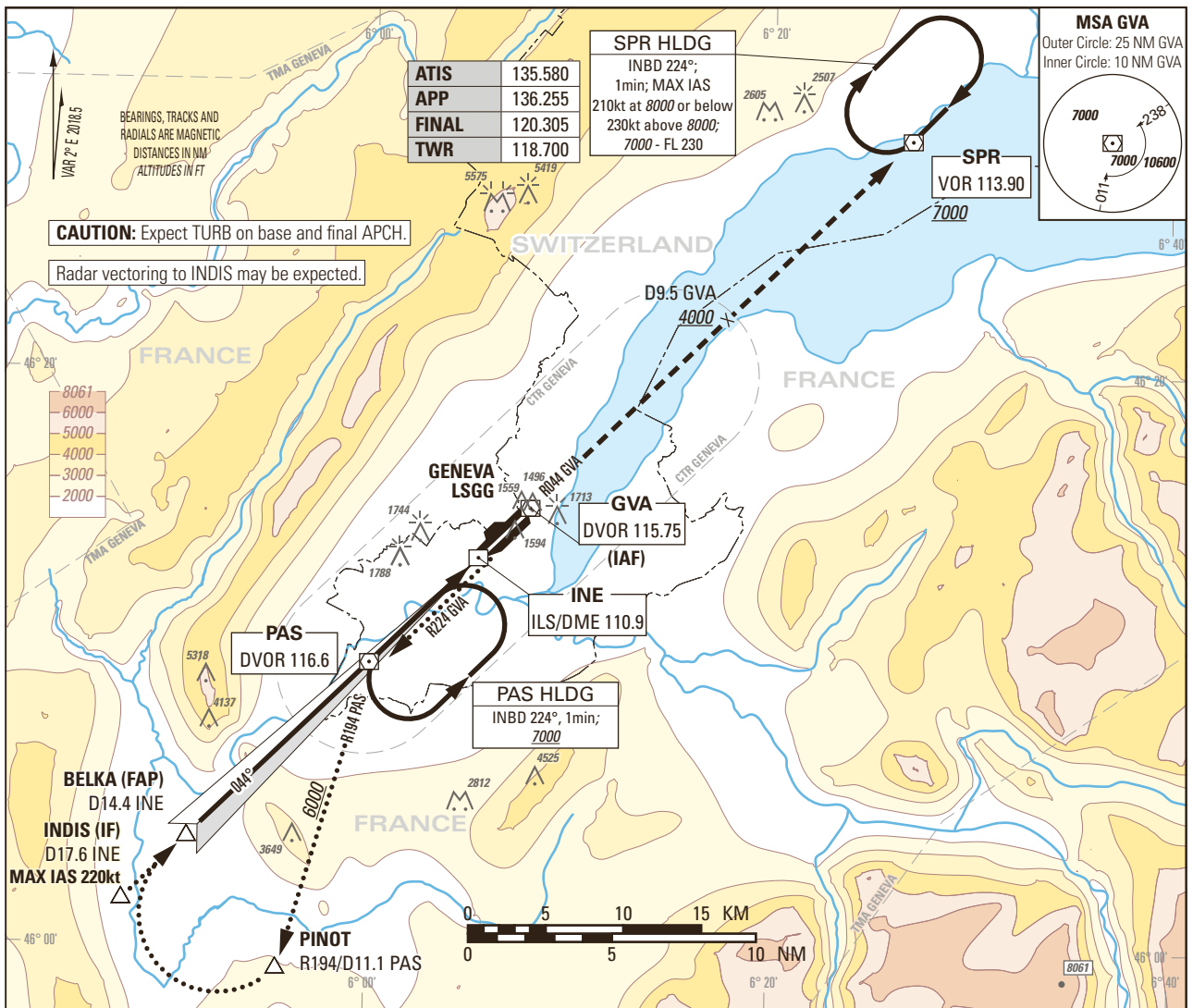
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Instrument Approach Chart
(IAC) - ICAO

AD ELEV 1411ft

TRANSITION LEVEL by ATC
TRANSITION ALTITUDE 7000

GENEVA LSGG
ILS RWY 04



OBSTACLE CLEARANCE ALTITUDE (HEIGHT)					
		A	B	C	D
CAT I	pressure altimeter	1601 (190)	1609 (198)	1617 (206)	1627 (216)
Straight-in approach					
DECISION ALTITUDE (HEIGHT)					
		A	B	C	D
CAT I	pressure altimeter	1611 (200)		1617 (206)	1627 (216)
Circling ¹⁾²⁾		2100 (689)	2150 (739)	2400 (989)	

DIST DME INE	16	14	12	10	8	6	4	2
recommended CROSSING ALT	6510	5870	5230	4590	3960	3320	2680	2050
ROD	GS kt	90	110	130	150			
	FT/MIN	478	584	690	796			

NOTE
¹⁾ Circling on request of ATC under special conditions and north of RWY only, speed (MAX IAS 180kt) and radius for category D as for category C aircraft.
²⁾ Circling must remain inside CTR at all times.

COR: MSA and Circling minima (WEF 02NOV2023)

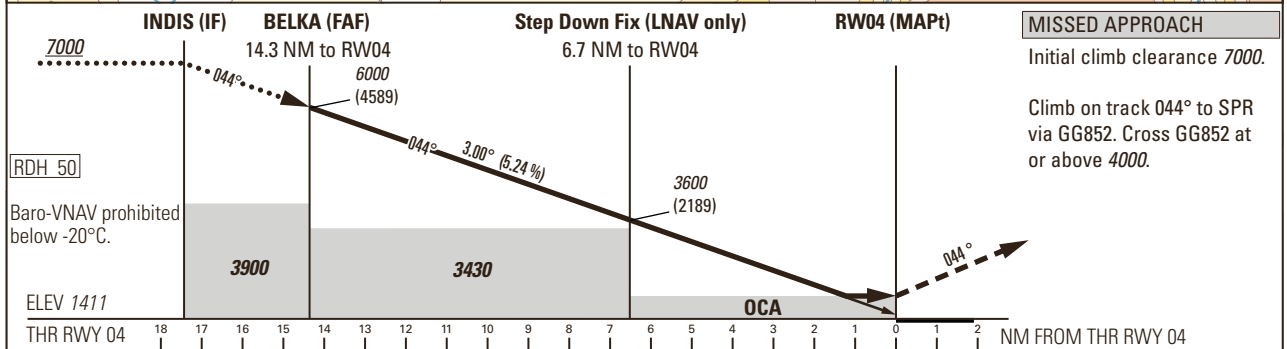
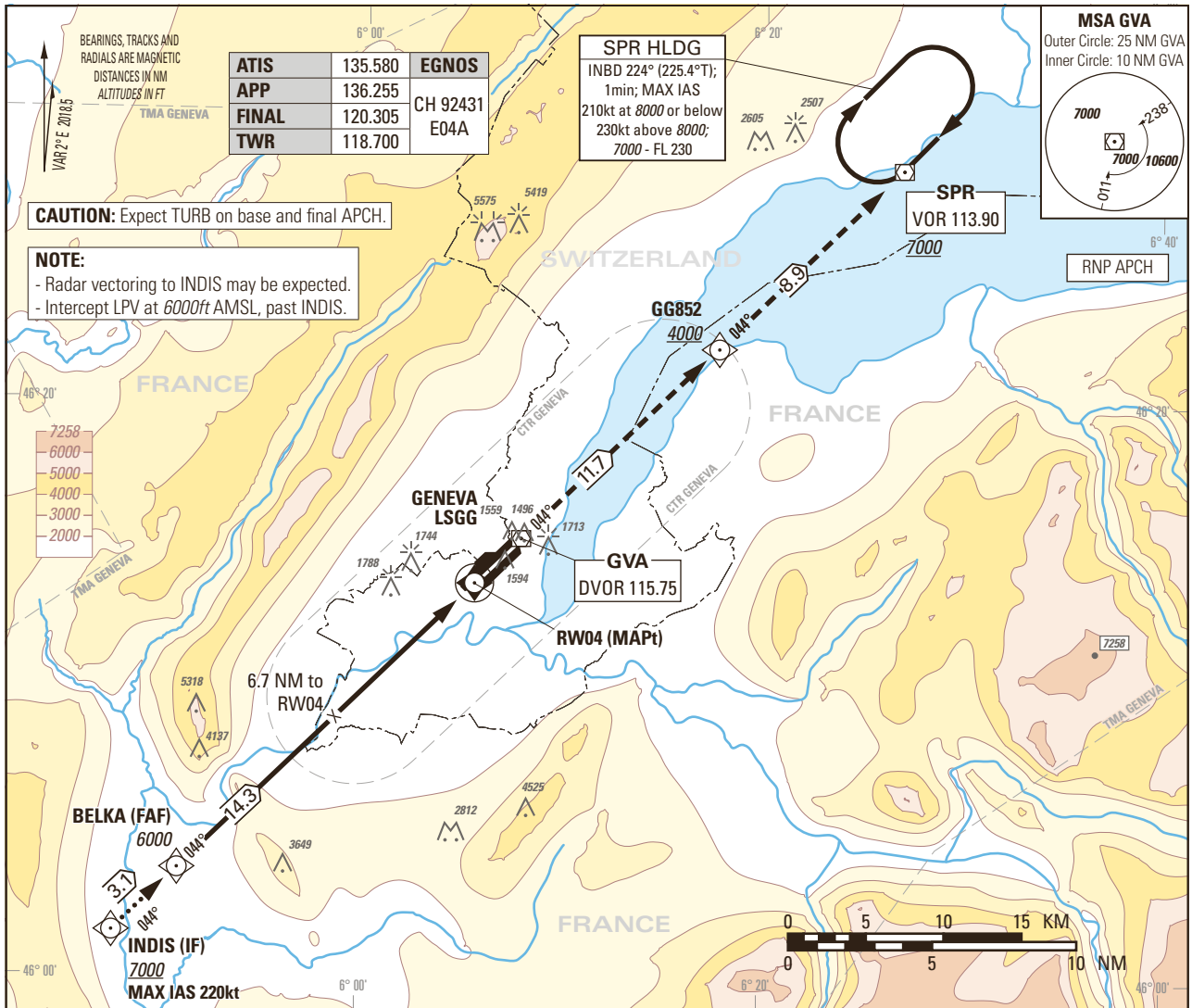
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Instrument Approach Chart
(IAC) - ICAO

AD ELEV 1411ft

TRANSITION LEVEL by ATC
TRANSITION ALTITUDE 7000

GENEVA LSGG
RNP RWY 04



Missed APCH climb gradient requirement	STRAIGHT-IN APPROACH				DIST RWY 04	17.4	16	14.3	12	10	8	6.7	6	4	2
	A	B	C	D		recommended crossing	7000	6560	6000	5290	4650	4010	3600	3380	2740
2.5%	OCA(H) LPV CAT I				ALTITUDE (HEIGHT)	(5589)	(5149)	(4598)	(3879)	(3239)	(2599)	(2189)	(1969)	(1329)	(689)
	DA(H) LPV CAT I					ROD	GS kt	90	110	130	150				
	OCA(H) LNAV/VNAV				FT/MIN	478	584	690	796						
	OCA(H) LNAV				CAUTION 0.5 NM before THR 04 Visual Segment Surface (VSS) penetrated by trees up to 1520ft AMSL.										
	1860 (449)														
Circling ¹⁾²⁾	2100 (689)	2150 (739)	2400 (989)		NOTE										

COR: MSA, MOCA, Circling minima and VSS (WEF 02NOV2023)

NOTE
1) Circling on request of ATC under special conditions and north of RWY only, speed (MAX IAS 180kt) and radius for category D as for category C aircraft.
2) Circling must remain inside CTR at all times.

Input data

Operation Type	0
SBAS Provider	1
Airport Identifier	LSGG
Runway	04
Runway Direction	0
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E04A
LTP/FTP Latitude	461340.2340N
LTP/FTP Longitude	0060538.2400E
LTP/FTP Ellipsoidal Height (metres)	479.9
FPAP Latitude	461505.8430N
Delta FPAP Latitude (seconds)	85.6090
FPAP Longitude	0060743.8945E
Delta FPAP Longitude (seconds)	125.6545
Threshold Crossing Height	50.0
TCH Units Selector	0
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	144
HAL (metres)	40.0
VAL (metres)	35.0

Output data

Data Block	10 07 07 13 0C 04 00 00 01 34 30 05 14 BE D6 13 80 80 9D 02 BF 26 D2 9C 02 AD D5 03 F4 01 2C 01 64 12 C8 AF 03 D3 C8 33
Calculated CRC Value	03D3C833

Required Additional Data

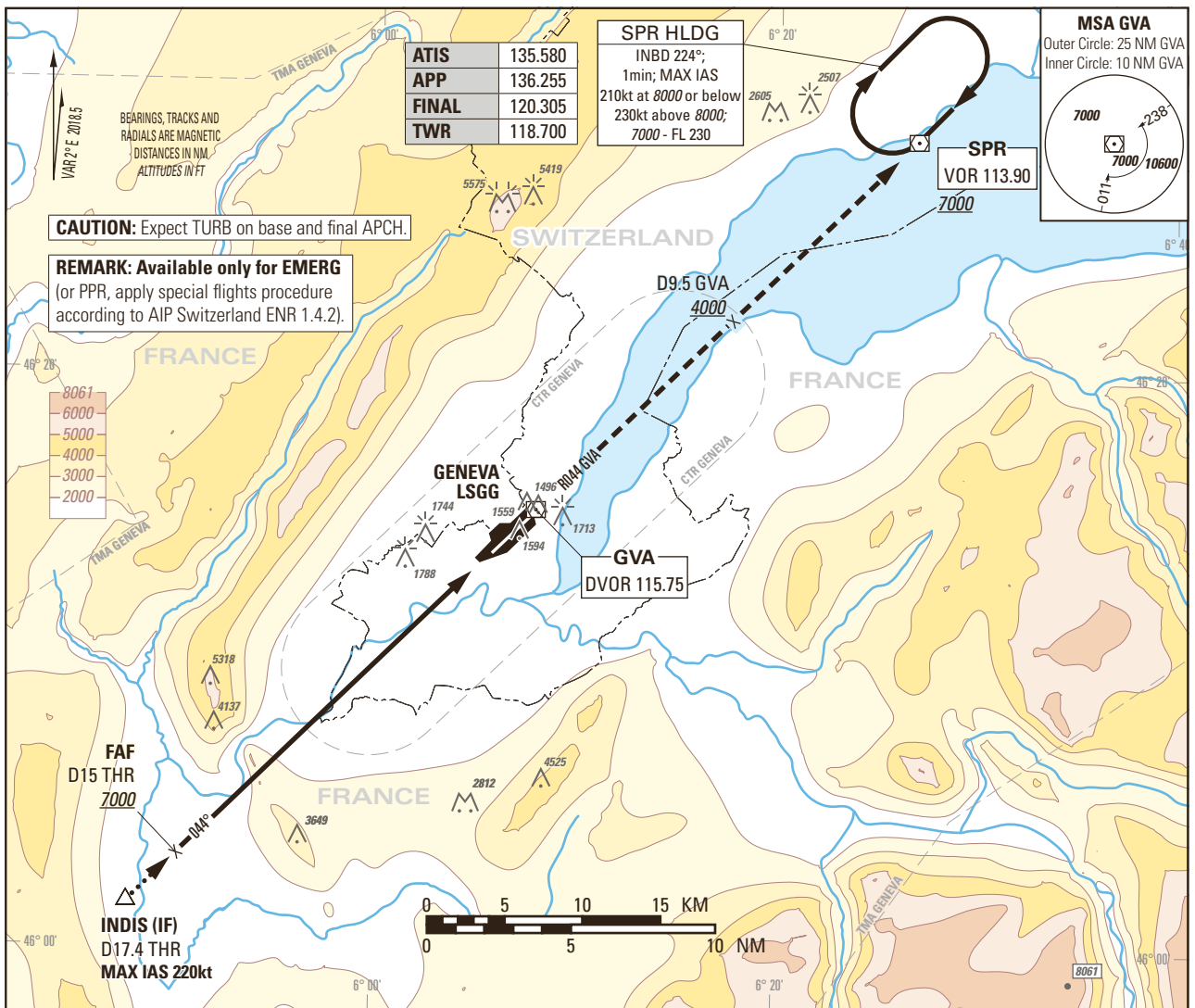
ICAO Code	LS
LTP/FTP Orthometric Height (metres)	430.1
FPAP Orthometric Height (metres)	

Instrument Approach Chart
(IAC) - ICAO

AD ELEV 1411ft

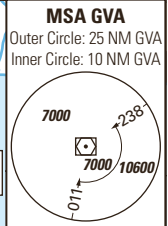
TRANSITION LEVEL by ATC
TRANSITION ALTITUDE 7000

GENEVA LSGG
SRA RWY 04



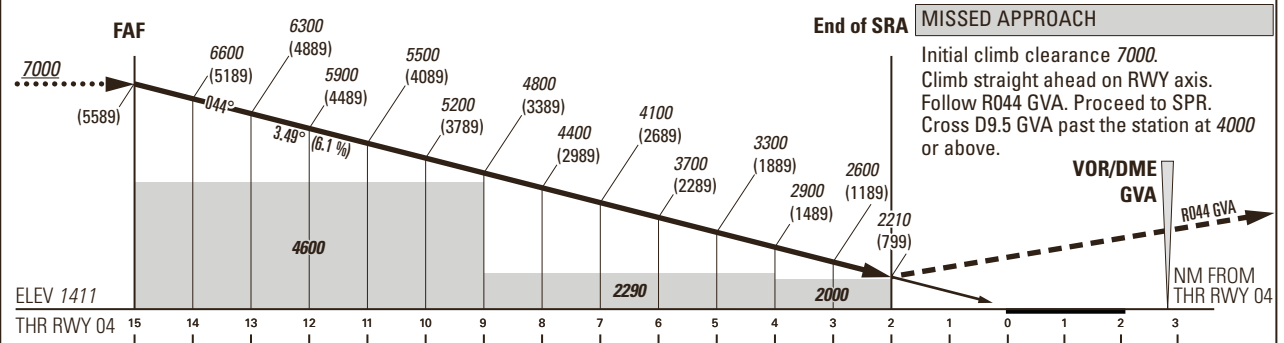
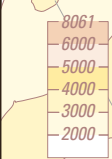
ATIS	135.580
APP	136.255
FINAL	120.305
TWR	118.700

SPR HLDG
INBD 224°;
1min; MAX IAS
210kt at 8000 or below
230kt above 8000;
7000 - FL 230



CAUTION: Expect TURB on base and final APCH.

REMARK: Available only for EMERG
(or PPR, apply special flights procedure
according to AIP Switzerland ENR 1.4.2).



RADAR FIX	15	14	13	12	11	10	9	8	7	6	5	4	3	2	ROD	GS kt	90	110	130	150
recommended crossing ALTITUDE (HEIGHT)	7000 (5589)	6600 (5189)	6300 (4889)	5900 (4489)	5500 (4089)	5200 (3789)	4800 (3389)	4400 (2989)	4100 (2689)	3700 (2289)	3300 (1889)	2900 (1489)	2600 (1189)	2210 (799)		FT/MIN	556	680	803	927

OBSTACLE CLEARANCE ALTITUDE (HEIGHT)				
	A	B	C	D
Surveillance Radar Approach	2210 (799)			
Circling ¹⁾²⁾	2210 (799)		2400 (990)	

NOTE
¹⁾ Circling on request of ATC under special conditions and north of RWY only, speed (MAX IAS 180kt) and radius for category D as for category C aircraft.
²⁾ Circling must remain inside CTR at all times.

CAUTION
- 0.5 NM BFR THR RWY 04 Visual Segment Surface (VSS) penetrated by trees up to 1495ft AMSL.

COR: MSA, MOCA and VSS (WEF 02NOV2023)

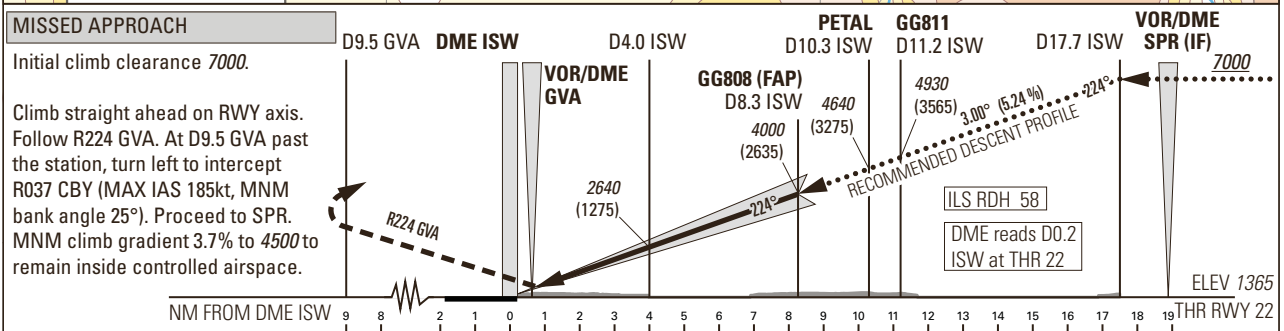
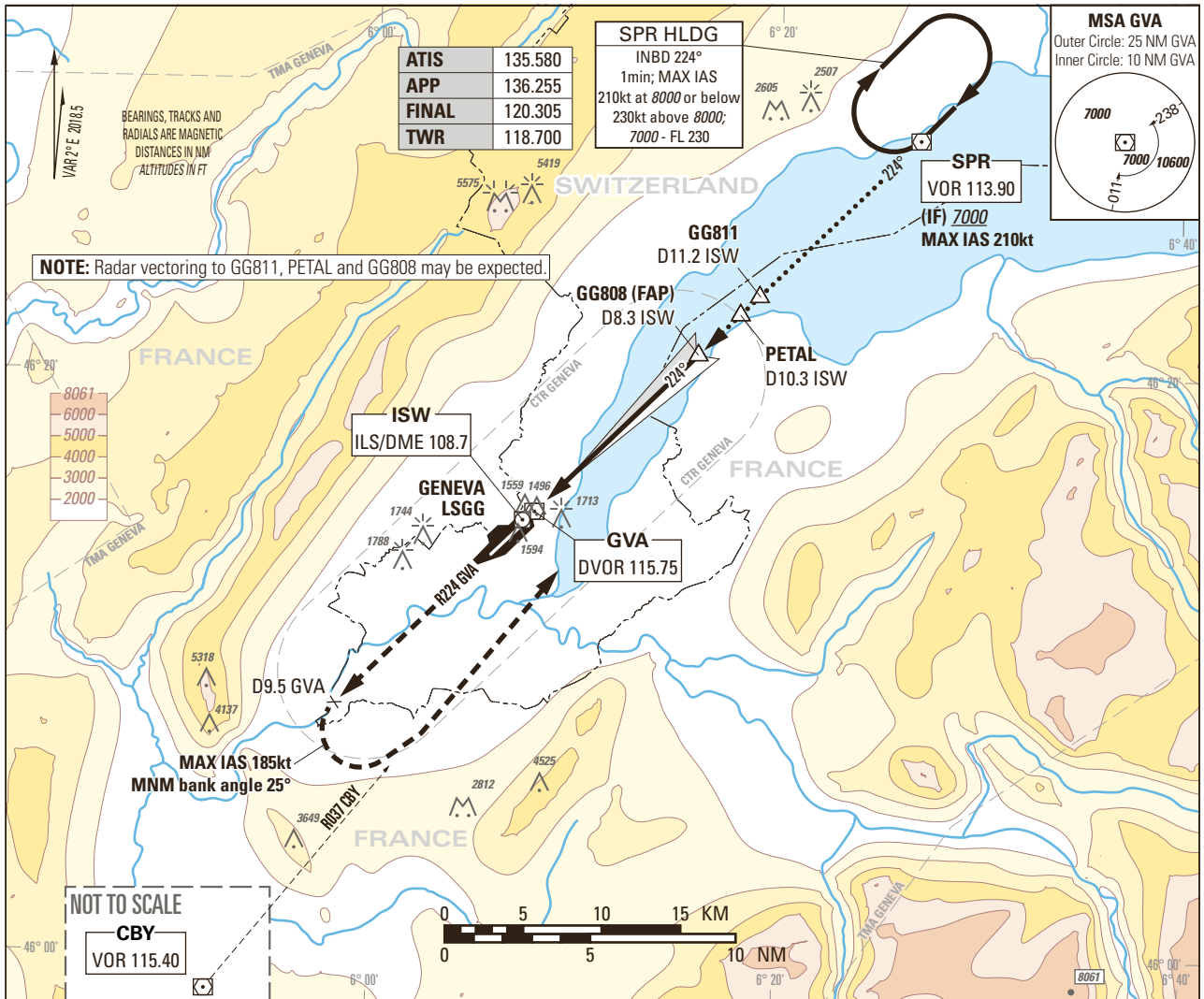
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Instrument Approach Chart
(IAC) - ICAO

AD ELEV 1411ft

TRANSITION LEVEL by ATC
TRANSITION ALTITUDE 7000

GENEVA LSGG
ILS RWY 22
CAT II & CAT III



OBSTACLE CLEARANCE ALTITUDE (HEIGHT) ¹⁾				
Missed APCH climb gradient requirement				
CAT	Altitude	A	B	D
CAT I	pressure altimeter	2018 (653)	2026 (661)	2048 (683)
CAT I	pressure altimeter	1530 (165)	1538 (173)	1560 (195)
CAT II	radio altimeter and autopilot	1432 (67)	1438 (73)	1465 (100)
CAT II	radio altimeter and autopilot	1427 (62)	1436 (71)	1464 (99)
DECISION ALTITUDE (HEIGHT) ¹⁾				
CAT	Altitude	A	B	D
CAT I	pressure ²⁾ altimeter	1565 (200)		
CAT II	radio altimeter and autopilot ²⁾	1465 (100)		
Circling ^{3) 4)}		2100 (689)	2150 (739)	2400 (989)

DIST DME ISW	2	4	6	8	8.3	10	12	14	16
recommended CROSSING ALT	2000	2640	3280	3910	4000	4550	5190	5820	6460
ROD	GS kt	90	110	130	150				
	FT/MIN	478	584	690	796				

NOTE

¹⁾ Above THR elevation 1365ft.
²⁾ Radio altimeter reading at CAT I DH 216ft, at CAT II DH 108ft, for lower operating minima (DH and RVR) PPR FOCA.
³⁾ Above aerodrome ELEV 1411ft, circling on request of ATC under special conditions and north of RWY only, speed (MAX IAS 180kt) and radius for category D as for category C aircraft.
⁴⁾ Circling must remain inside CTR at all times.

COR: MSA, RDL CBY, Circling minima (WEF 02NOV2023)

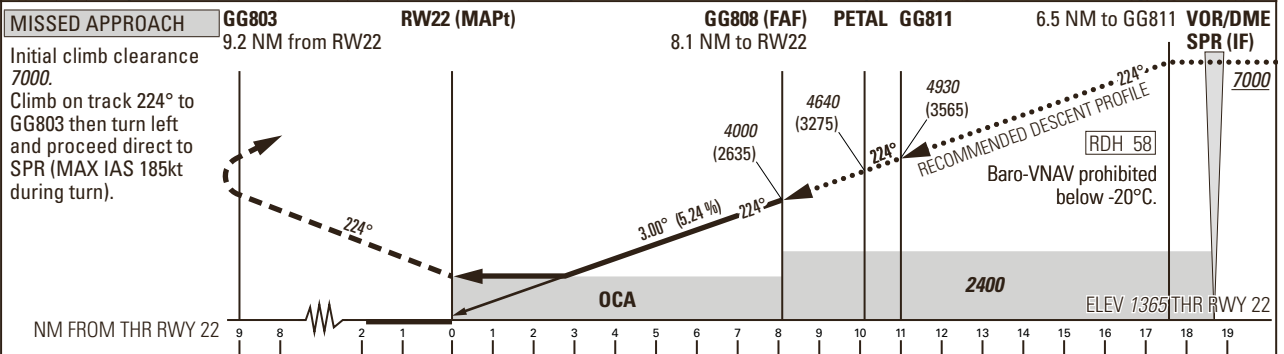
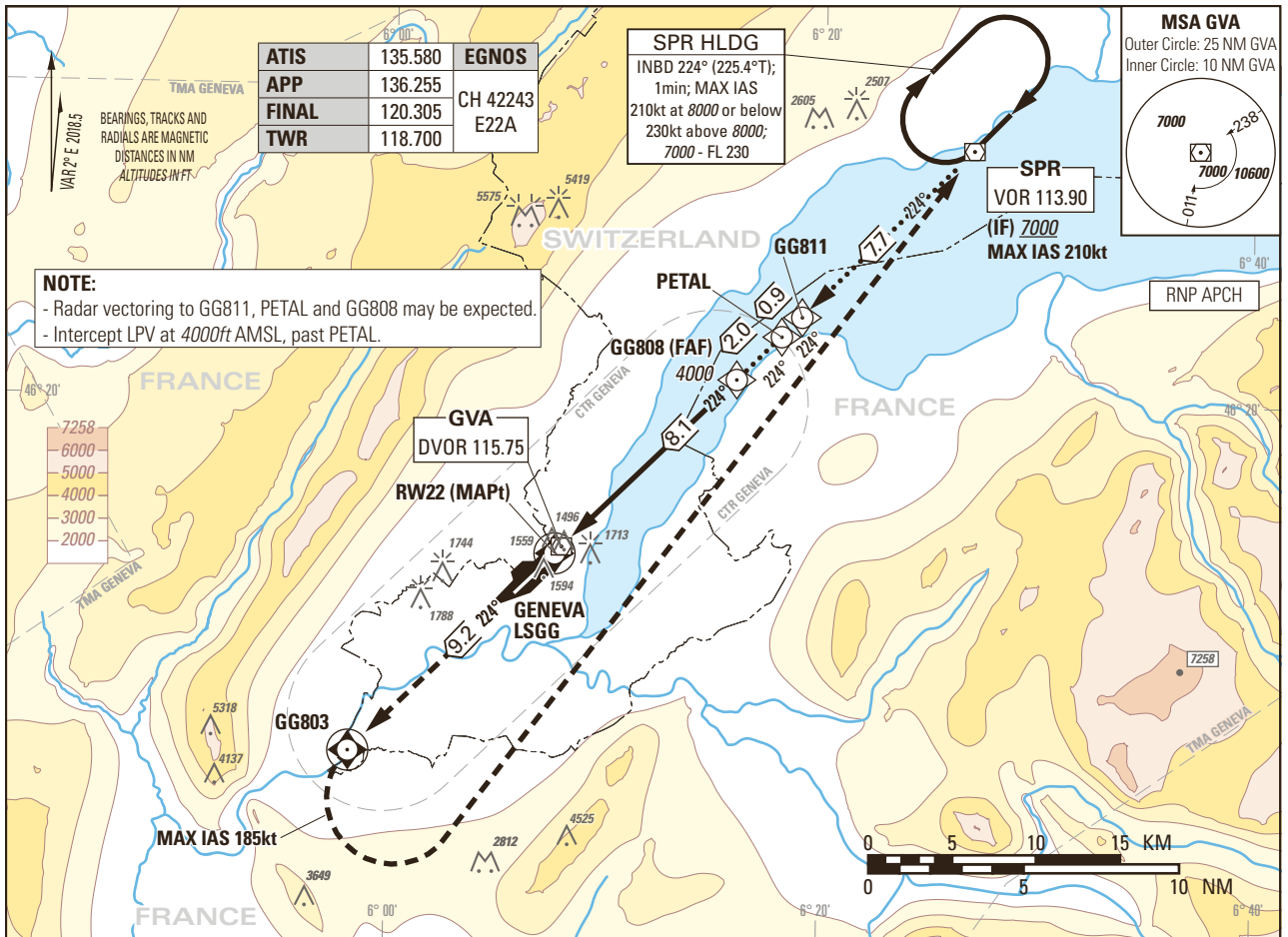
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Instrument Approach Chart
(IAC) - ICAO

AD ELEV 1411ft

TRANSITION LEVEL by ATC
TRANSITION ALTITUDE 7000

GENEVA LSGG
RNP RWY 22



Missed APCH climb gradient requirement	STRAIGHT-IN APPROACH			
	A	B	C	D
	OCA(H) LPV CAT I			
2.5%	N/A	2005 (640)	2015 (650)	2025 (660) 2035 (670)
3.3%	4300	1532 (167)	1540 (175)	1550 (185) 1562 (197)
	DA(H) LPV CAT I			
3.3%	4300	1565 (200)		
	OCA(H) LNAV/VNAV			
2.5%	N/A	2422 (1057)	2432 (1067)	2453 (1088) 2479 (1114)
3.8%	4800	1706 (341)	1715 (350)	1731 (366) 1762 (397)
	OCA(H) LNAV			
2.5%	N/A	2850 (1485)		
3.8%	4800	1870 (505)		
Circling ¹⁾²⁾	2100 (689)	2150 (739)	2400 (989)	

DIST RWY 22	2	4	6	8.1	10.1	11	12	14	16	17.5
recommended crossing ALTITUDE (HEIGHT)	2060 (695)	2700 (1335)	3340 (1975)	4000 (2635)	4640 (3275)	4930 (3565)	5250 (3885)	5890 (4525)	6520 (5155)	7000 (5635)

ROD	GS kt	90	110	130	150
	FT/MIN	478	584	690	796

CAUTION
0.8 NM before THR22 Visual Segment Surface (VSS) penetrated by power lines and trees up to 1527ft AMSL.

NOTE
¹⁾ Above aerodrome ELEV 1411ft, circling on request of ATC under special conditions and north of RWY only, speed (MAX IAS 180kt) and radius for category D as for category C aircraft.
²⁾ Circling must remain inside CTR at all times.

COR: MSA, MOCA, OCA(H), VSS, Circling minima and Airspace MNM climb gradient withdrawn (WEF 02NOV2023)

Input data

Operation Type	0
SBAS Provider	1
Airport Identifier	LSGG
Runway	22
Runway Direction	0
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E22A
LTP/FTP Latitude	461501.2980N
LTP/FTP Longitude	0060737.2190E
LTP/FTP Ellipsoidal Height (metres)	465.9
FPAP Latitude	461331.4425N
Delta FPAP Latitude (seconds)	-89.8555
FPAP Longitude	0060525.3575E
Delta FPAP Longitude (seconds)	-131.8615
Threshold Crossing Height	58.0
TCH Units Selector	0
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	35.0

Output data

Data Block	10 07 07 13 0C 16 00 00 01 32 32 05 64 37 D9 13 06 22 A1 02 33 26 01 42 FD D5 F9 FB 44 02 2C 01 64 00 C8 AF CF 2C FD EE
Calculated CRC Value	CF2CFDEE

Required Additional Data

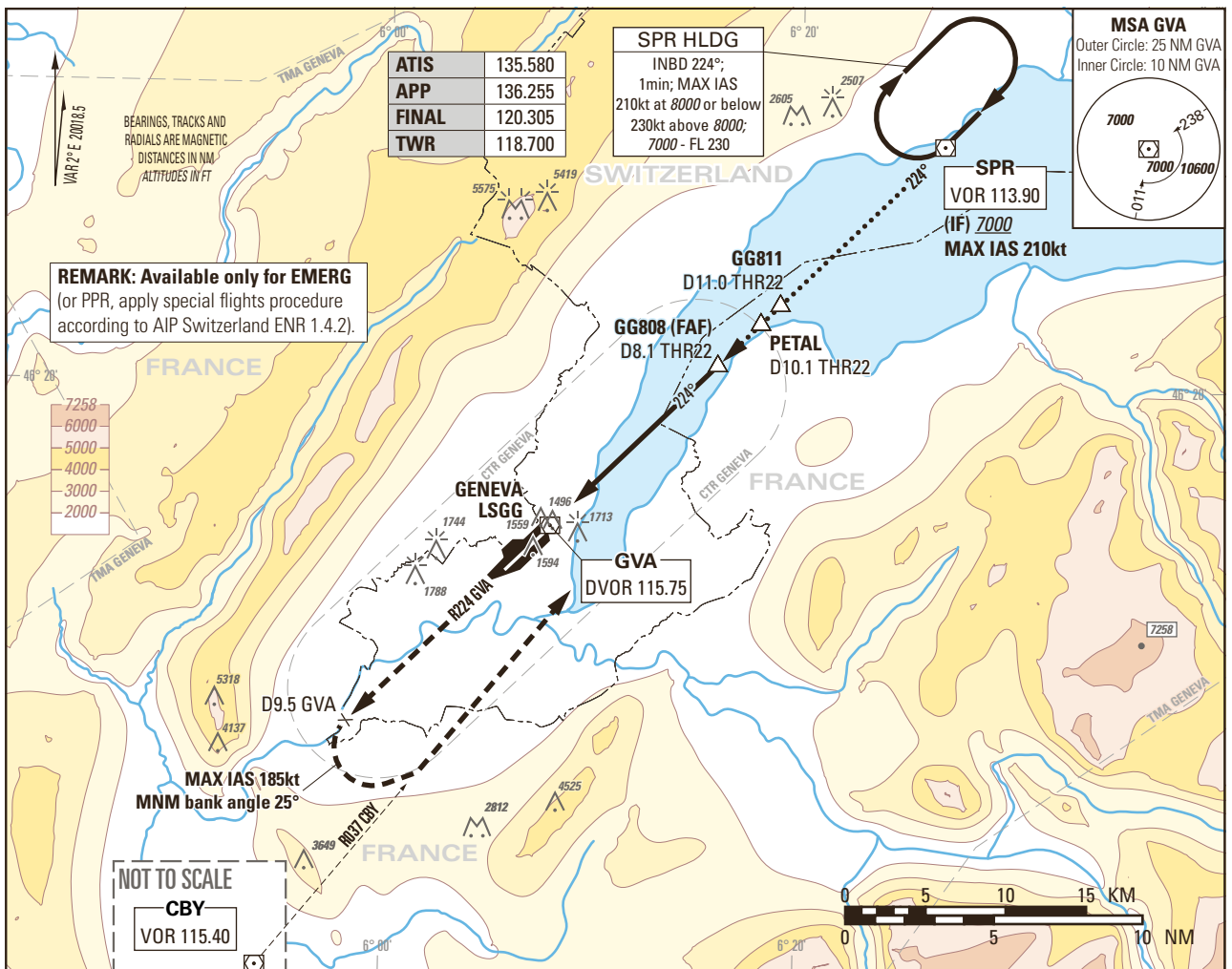
ICAO Code	LS
LTP/FTP Orthometric Height (metres)	416.1
FPAP Orthometric Height (metres)	

Instrument Approach Chart
(IAC) - ICAO

AD ELEV 1411ft

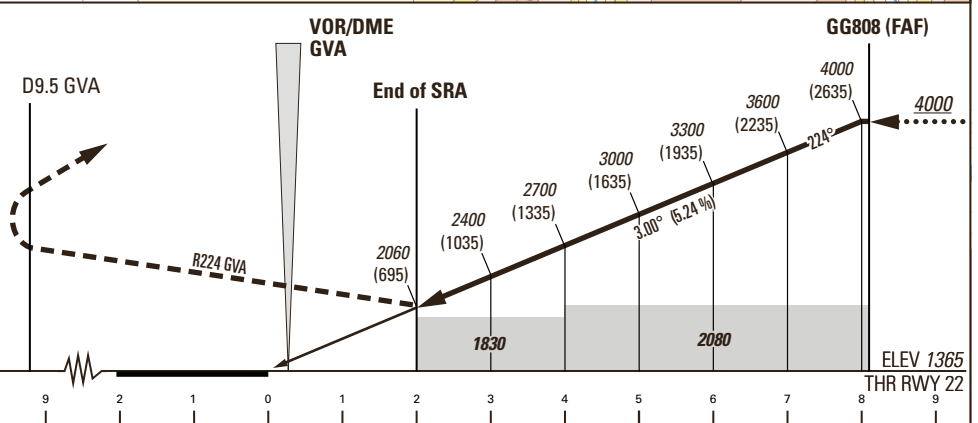
TRANSITION LEVEL by ATC
TRANSITION ALTITUDE 7000

GENEVA LSGG
SRA RWY 22



MISSED APPROACH

Initial climb clearance 7000.
Climb straight ahead on RWY axis. Follow R224 GVA. At D9.5 GVA past the station, turn left to intercept R037 CBY (MAX IAS 185kt, MNM bank angle 25°). Proceed to SPR.



OBSTACLE CLEARANCE ALTITUDE (HEIGHT)				
	A	B	C	D
Surveillance Radar Approach	2060 (695)			
Circling ¹⁾²⁾	2100 (689)	2150 (739)	2400 (989)	

ROD	GS kt	90	110	130	150
	FT/MIN	478	584	690	796

RADAR FIX	2	3	4	5	6	7	8
recommended crossing ALTITUDE (HEIGHT)	2060 (695)	2400 (1035)	2700 (1335)	3000 (1635)	3300 (1935)	3600 (2235)	4000 (2635)

CAUTION
0.8 NM before THR22 Visual Segment Surface (VSS) penetrated by power lines and trees up to 1527ft AMSL.

NOTE

- ¹⁾ Above aerodrome ELEV 1411ft, circling on request of ATC under special conditions and north of RWY only, speed (MAX IAS 180kt) and radius for category D as for category C aircraft.
- ²⁾ Circling must remain inside CTR at all times.

COR: MSA, RDL CBY, MOCA, Circling minima and VSS (WEF 02NOV2023)

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LSZH AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type Category (Variation)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
TRASADINGEN DME	TRA	CH 90X	H24	47 41 22.2N 008 26 13.1E	1850 ft	DOC 100 NM / 50'000 ft Paired VOR FREQ 114.30 MHz
KLOTEN DVOR/DME (VAR 3° E)	KLO	114.85 MHz 95Y	H24	47 27 25.7N 008 32 44.1E	1410 ft	PSN: 234° MAG, 0.12 NM FM ARP. DOC 50 NM / 25'000 ft VOR partially UNREL BTN R235 and R245 BLW 7400 ft AMSL and BTN R040 and R080 BLW 5200 ft AMSL.
ZURICH EAST DVOR/DME (VAR 3° E)	ZUE	110.05 MHz 37Y	H24	47 35 31.8N 008 49 03.6E	1730 ft	PSN: 051° MAG, 13.6 NM FM ARP. DOC 80 NM / 50'000 ft
HOCHWALD DME	HOC	CH 79X	H24	47 27 59.6N 007 39 55.6E	2425 ft	DOC 60 NM / 50'000 ft, DME range 85 NM in sector 30° - 120°. Paired VOR FREQ 113.20 MHz
WILLISAU DVOR/DME (VAR 3° E)	WIL	116.90 MHz CH 116X	H24	47 10 42.1N 007 54 20.9E	2425 ft	DOC 50 NM / 25'000 ft, range 80 NM in sector 0° - 105°.
GBAS	G14A (RWY 14)	114.05 MHz CH 20242	H24	47 28 46.9N 008 31 49.2E	ELEV of GBAS 1416 ft	Restricted coverage (published procedures covered): at 15 NM -35°E to 20°S from CL above 3700 ft AMSL. at 15 NM +/- 35° from CL above 4000 ft AMSL. at 20 NM +/- 10° from CL above 4700 ft AMSL. Ellipsoid height: 478.81 m
ILS 14-LOC CAT III	IKL	111.75 MHz	H24	47 27 35.5N 008 33 59.1E		LOC PSN: 216 m FM THR 32. RWY 14: LOC course 134° MAG. Front course sector width 3.57°. Restricted coverage: (published procedures covered): at 10 NM - +/- 35° from CL above 3800 ft AMSL. at 17 NM - 24° E to 33° W from CL above 3800 ft AMSL. at 25 NM - +/- 10° from CL above 4500 ft AMSL.
GP 14		333.35 MHz	H24	47 28 50.0N 008 32 25.8E		GP Angle 3°. PSN: 350 m FM THR 14. GP HGT THR 14: 53 ft / 16.2 m.
DME 14		54Y	H24	47 28 50.0N 008 32 25.6E	1415 ft	DME co-located with GP. Zero range at DME station. Restricted coverage (published procedures covered): at 10 NM - +/- 35° from CL above 3800 ft AMSL. at 17 NM - +/- 35° from CL above 3800 ft AMSL. at 25 NM - 10° E to 0° W from CL above 4500 ft AMSL.

Type Category (Variation)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS 16-LOC CAT III	IZH	110.50 MHz	H24	47 26 35.2N 008 33 30.2E		LOC PSN: 758 m FM THR 34. RWY 16: LOC course 152° MAG Front course sector width 3.0°. Restricted coverage: at 17 NM; +/- 15° from CL above 3800 ft AMSL. at 25 NM; +/- 10° from CL above 4600 ft AMSL. No low clearance and no receiver flag within the area 17 NM 3800 ft 25° E to 30° W from CL.
GP 16		329.60 MHz	H24	47 28 23.1N 008 32 22.6E		GP Angle 3°. PSN: 384 m FM THR 16. GP HGT THR 16: 54 ft / 16.5 m.
DME 16		42X	H24	47 28 23.0N 008 32 22.9E	1400 ft	DME co-located with GP. Zero range at DME station. Restricted coverage: at 17 NM; +/- 15° from CL above 3800 ft AMSL. at 25 NM; +/- 10° from CL above 4600 ft AMSL.
ILS 28-LOC UNCAT	IZW	109.75 MHz	H24	47 27 33.6N 008 31 55.3E		LOC PSN: 413 m FM THR 10. RWY 28: LOC course 273° MAG. Front course sector width 4.13°. Uncategorised ILS APCH RWY 28 due to obstacle limitation and restriction according to non-instrument RWY criteria. Restricted coverage: at 17 NM; +/- 35° from CL above 4900 ft AMSL. at 25 NM; +/- 10° from CL above 4900 ft AMSL.
GP 28		333.050 MHz	H24	47 27 26.5N 008 33 59.4E		GP Angle 3.3°. PSN: 304 m FM THR 28. GP HGT THR 28: 51 ft / 15.5 m. Restricted coverage (published procedures covered): above 4900 ft AMSL at 12 NM; - 8° S to - 4° S from CL at 15 NM; - 4° S to 0° from CL at 13 NM; 0° to 3° N from CL at 12 NM; 3° N to 4° N from CL above 5900 ft AMSL at 13 NM; - 8° S to - 4° S from CL at 17 NM; - 4° S to 2° N from CL at 14 NM; 2° N to 4° N from CL
DME 28		34Y	H24	47 27 27.1N 008 33 59.8E	1423 ft	DME co-located with GP. Zero range at DME station. Restricted coverage (published procedures covered): at 16 NM - 8° S to 4° N from CL above 4700 ft AMSL. at 17 NM - +/- 15° from CL above 5700 ft AMSL. at 20 NM - 8° S to 4° N from CL above 5700 ft AMSL.