

REPUBLIC OF MACEDONIA

CIVIL AVIATION
AGENCY

AERONAUTICAL INFORMATION
SERVICE

Bosfor 7, Mralino 1041 Ilinden



АГЕНЦИЈА ЗА ЦИВИЛНО
ВОЗДУХОПЛОВСТВО

СЛУЖБА ЗА ВОЗДУХОПЛОВНИ
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AMD AIP 57
AIRAC 14 APR 2016

EFFECTIVE DATE
СТАПУВА ВО СИЛА НА
26 MAY 2016 at 1800 UTC

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• ENR 3.3-1/3.3-2	26 MAY 2016	• ENR 3.3-1/3.3-2	06 MAR 2014
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• ENR 3.3-5/3.3-6	26 MAY 2016	• ENR 3.3-5/3.3-6	07 FEB 2013/28 MAY 2015
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• ENR 3.3-11/3.3-12	26 MAY 2016	• ENR 3.3-11/3.3-12	28 MAY 2015
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• ENR 3.3-19/3.3-20	26 MAY 2016	• ENR 3.3-19/3.3-20	06 MAR 2014/28 MAY 2015
• ENR 3.3-21/3.3-22	26 MAY 2016	• ENR 3.3-21/3.3-22	28 MAY 2015
• ENR 3.3-23/3.3-24	26 MAY 2016	• ENR 3.3-23/3.3-24	06 MAR 2014/28 MAY 2015
• ENR 3.3-25/3.3-26	26 MAY 2016	• ENR 3.3-25/3.3-26	15 AUG 2015/06 MAR 2014
• ENR 6.1-1/6.1-2	26 MAY 2016/22 APR 1999	• ENR 6.1-1/6.1-2	28 MAY 2015/22 APR 1999
• ENR 6.1-3/6.1-4	26 MAY 2016/22 APR 1999	• ENR 6.1-3/6.1-4	28 MAY 2015/22 APR 1999
AD		AD	
• LWOH AD 2.24-1/2.24-2	26 MAY 2016/14 SEP 1995	• LWOH AD 2.24-1/2.24-2	15 JAN 2016/14 SEP 1995

GEN 3.2 Aeronautical charts	GEN 3.2 Воздухопловни карти
<p>3.2.1 Responsible service(s)</p> <p>Responsible service for preparation and maintenance is Aeronautical Information Service of the Republic of Macedonia.</p> <p>Postal Address:</p> <p>M-NAV Aeronautical Information Services Bosfor 7, Mralino 1041 Ilinden Republic of Macedonia</p> <p>Phone: ++ 389 2 314 81 59/ 314 81 63 Fax: ++ 389 2 311 20 26 AFTN: LWSKYOYX E-mail: aismac@mnavigation.mk</p>	<p>3.2.1</p>
<p>3.2.2 Maintenance of charts</p> <p>Preparation and maintenance of the ICAO chart series for the Republic of Macedonia will be achieved by means of digital mapping platform. This is co-sited with the AIP editing suite at operations building at Skopje airport. Enquiries should be made during weekday office hours only. Purchasing requirements should be addressed to the AIP Editor. Current purchasing arrangements and costs will be notified by AIC.</p>	<p>3.2.2</p>
<p>3.2.3 Purchase arrangements</p> <p>Current purchasing arrangements and costs will be notified by AIC.</p>	<p>3.2.3</p>
<p>3.2.4 Aeronautical chart series available</p>	<p>3.2.4</p>
<p>3.2.4.1 General Cautionary Note</p> <p>SID and STAR charts for LWSK and LWOH aerodromes published in this AIP are based directly on the former chart series issued by the Socialistic Federal Republic of Yugoslavia. No survey records are available to verify the accuracy of the data presented. All those charts will be re-issued with new geodetic survey data in due time.</p>	<p>3.2.4.1</p>
<p>3.2.4.2 AERONAUTICAL CHART ICAO 1:500 000</p> <p>A multi-coloured chart will be issued in Lambert Conic Conformal Projection.</p> <p>Note: <i>Until the official issue of this chart the existing Aeronautical Chart - ICAO 1:500,000 titled Skopje (2322A) Issued by the Socialistic Federal Republic of Yugoslavia (part of 4 chart group), should be retained for use within the territory of Republic of Macedonia. This chart must be used with caution during the transition of maintenance responsibility to the new Authority, and until a formal reissue can be completed.</i></p>	<p>3.2.4.2</p>

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3.2.4.3 AERODROME OBSTACLE CHARTS - ICAO TYPE A

Aerodrome Obstacle Charts - ICAO Type A are constructed on a scale of 1:20,000 and show the RWY, strip, and the obstacles in take-off area, relevant to determining operating limitations at the take-off area.

3.2.4.4 ENROUTE CHARTS - ICAO

These charts provide flight crews with information to facilitate navigation along ATS routes, in compliance with the procedures detailed in ENR section.

3.2.4.5 STANDARD ARRIVAL CHARTS - INSTRUMENT (STAR) - ICAO

These charts are published for the portrayal of the flight procedures, which will enable flight crews to comply with the designated standard arrival route, (instrument) from the en-route phase to the approach phase.

3.2.4.6 INSTRUMENT APPROACH CHARTS - ICAO

These charts provide flight crews with information which will enable them to perform the approved instrument approach procedure, to the runway at intended landing, including the missed approach procedure, and associated holding patterns.

3.2.4.7 STANDARD DEPARTURE CHARTS - INSTRUMENT (SID) - ICAO

These charts are published for the portrayal of the flight procedures, which will enable flight crews to comply with the designated standard departure route - (instrument) from take-off phase to the en-route phase.

3.2.4.8 AERODROME CHARTS - ICAO

These charts will provide flight crews with information that will facilitate the ground movement of aircraft on the aerodrome.

3.2.4.9 AIRCRAFT PARKING/DOCKING CHARTS - ICAO

These charts provide more detailed information on parking/docking positions on apron and parking aids, together with INS co-ordinates.

3.2.5 List of aeronautical charts available

The following charts are published:

1. AERONAUTICAL CHART ICAO 1:500 000
JUNE 1985

See Note: 3.2.4.2

2. En-route Chart - ICAO
Lower
26 MAY 2016
3. En-route Chart - ICAO
Upper
26 MAY 2016

3.2.4.3

3.2.4.4

3.2.4.5

3.2.4.6

3.2.4.7

3.2.4.8

3.2.5

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4. Aerodrome Chart - ICAO
Aerodrome Chart - ICAO - Skopje
26 MAY 2016
5. Aircraft Parking/Docking Chart - ICAO
Aircraft Parking/Docking Chart - ICAO-
Skopje
26 MAY 2016
6. Standard Arrival Chart
Instrument (STAR) - ICAO - Skopje
26 MAY 2016
7. Instrument Approach Chart - ICAO - Skopje
ILS 34 CAT A, B
26 MAY 2016
8. Instrument Approach Chart - ICAO - Skopje
ILS 34 CAT C, D
26 MAY 2016
9. Instrument Approach Chart - ICAO - Skopje
VOR 34 CAT A, B
26 MAY 2016
10. Instrument Approach Chart - ICAO - Skopje
VOR 34 CAT C, D
26 MAY 2016
11. Standard Departure Chart
Instrument (SID) - ICAO - Skopje
SID 16
26 MAY 2016
12. Standard Departure Chart
Instrument (SID) - ICAO - Skopje
SID 34
26 MAY 2016
13. Aerodrome Obstacle Chart
ICAO Type A - Skopje
RWY 16
12 NOV 2015
14. Aerodrome Obstacle Chart
ICAO Type A - Skopje
RWY 34
12 NOV 2015
15. ATC Surveillance Minimum Altitude Chart -
ICAO - Skopje
26 MAY 2016
16. Aerodrome Chart - ICAO
Aerodrome Chart - ICAO - Ohrid
26 MAY 2016
17. Aircraft Parking/Docking Chart - ICAO
Aircraft Parking/Docking Chart - ICAO-Ohrid
26 MAY 2016
18. Standard Arrival Chart
Instrument (STAR) - ICAO - Ohrid
26 MAY 2016

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19. Instrument Approach Chart - ICAO - Ohrid
 ILS 01 CAT A, B, C
 26 MAY 2016

20. Instrument Approach Chart - ICAO - Ohrid
 Non-Standard ILS 01 CAT D
 26 MAY 2016

21. Instrument Approach Chart - ICAO - Ohrid
 VOR 01, CAT A, B
 26 MAY 2016

22. Instrument Approach Chart - ICAO - Ohrid
 VOR 01, CAT C
 26 MAY 2016

23. Instrument Approach Chart - ICAO - Ohrid
 Non-Standard VOR 01, CAT D
 26 MAY 2016

24. Standard Departure Chart
 Instrument (SID) - ICAO - Ohrid - SID 01
 26 MAY 2016

25. Standard Departure Chart
 Instrument (SID) - ICAO - Ohrid
 SID 19 CAT A, B, C
 26 MAY 2016

26. Standard Departure Chart
 Instrument (SID) - ICAO - Ohrid
 SID 19 CAT D
 26 MAY 2016

27. Aerodrome Obstacle Chart
 ICAO Type A - Ohrid
 RWY 01/19
 12 NOV 2015

3.2.6 Index to the World Aeronautical Chart (WAC) - ICAO 1: I 000 000 3.2.6

Map 2322 is found in Appendix 5 of Annex 4 to the Convention

3.2.7 Topographical charts 3.2.7

No approved charts are currently available.

3.2.8 Corrections to charts not contained in the AIP 3.2.8

NIL - all charts available are included in the AIP.

ENR 3.3 Радио навигациони рути

ENR 3.3 Area navigation routes

3.3.1 Долни рути за просторна навигација

3.3.1 Lower area navigation routes

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
L603 (RNP 5)						
▲ OLOTA (FIR BDRY) 42 13 48N 021 37 00E						KFOR Sector Skopje ACC
	131°	75.5	FL245 11000 FT ALT	C, D	ODD ↓	
▲ RUGAS (FIR BDRY) 41 19 46N 022 47 29E						Skopje ACC Makedonia ACC
L608 (RNP 5)						
▲ DISOR (FIR BDRY) 41 14 50N 022 45 30E						Makedonia ACC Skopje ACC
	308°	82.1	FL245 11000 FT ALT	C, D	EVEN ↓	
▲ LONTA (FIR BDRY) 42 09 34N 021 23 50E						Skopje ACC KFOR Sector
L616 (RNP 5)						
▲ KOGAT (FIR BDRY) 42 06 45N 021 03 20E						KFOR Sector Skopje ACC
	165°	75.4	FL245 11000 FT ALT	C, D	ODD ↓	
▲ BITLA (FIR BDRY) 40 52 32N 021 21 29E						Skopje ACC Makedonia ACC

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
L617 (RNP 5)						
▲ RAXAD (FIR BDRY) 42 18 30N 022 14 34E	166° 346°	71.8	FL245 11000 FT ALT	C,D	ODD ↓ ↑ EVEN	Beograd ACC
▲ MAKED (FIR BDRY) 41 07 45N 022 31 00E						Skopje ACC
						Makedonia ACC
Availability: RAXAD - MAKED: H24 MAKED - RAXAD: 2200 - 0400						
L737 (RNP 5)						
▲ KOGAT (FIR BDRY) 42 06 45N 021 03 20E	133°	78	FL245 11000 FT ALT	C,D	ODD ↓	KFOR Sector
▲ ERANA (FIR BDRY) 41 09 48N 022 14 22E						Skopje ACC
						Makedonia ACC
M22 (RNP 5)						
▲ DOBAR (FIR BDRY) 41 19 58N 020 29 41E	099°	66.2	FL245 11000 FT ALT	C,D	ODD ↓	Tirana ACC
▲ TALAS (FIR BDRY) 41 04 36N 021 55 00E						Skopje ACC
						Makedonia ACC

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
M749 (RNP 5)						
▲ TALAS (FIR BDRY) 41 04 36N 021 55 00E	336°	69	FL245 11000 FT ALT	C, D	EVEN ↓	Makedonia ACC
						Skopje ACC
▲ LONTA (FIR BDRY) 42 09 34N 021 23 50E						Skopje ACC
						KFOR Sector
M867 (RNP 5)						
▲ KOGAT (FIR BDRY) 42 06 45N 021 03 20E	120°	92.5	FL245 11000 FT ALT	C, D	ODD ↓	KFOR Sector
						Skopje ACC
▲ DISOR (FIR BDRY) 41 14 50N 022 45 30E						Skopje ACC
						Makedonia ACC
N128 (RNP 5)						
▲ RUGAS (FIR BDRY) 41 19 46N 022 47 29E	330° 150°	43.5	FL245 9000 FT ALT	C, D	EVEN ↓	Makedonia ACC
						Skopje ACC
▲ SINKO VOR/DME (SIN) 41 58 51N 022 21 56E	340° 160°	20.4			↑ ODD	Skopje ACC
						Beograd ACC
▲ RAXAD (FIR BDRY) 42 18 30N 022 14 34E						

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
N130 (RNP 5)						
▲ MAVAR (FIR BDRY) 41 40 12N 020 31 48E						Tirana ACC
	115° 296°	72	FL245 11000 FT ALT	C, D	ODD ↓ ↑ EVEN	Skopje ACC
▲ TALAS (FIR BDRY) 41 04 36N 021 55 00E						Skopje ACC
						Makedonia ACC
N132 (RNP 5)						
▲ MAVAR (FIR BDRY) 41 40 12N 020 31 48E						Tirana ACC
	138°	60.6	FL245 11000 FT ALT	C, D	ODD ↓	Skopje ACC
▲ BITLA (FIR BDRY) 40 52 32N 021 21 29E						Skopje ACC
						Makedonia ACC
N137 (RNP 5)						
▲ DOBAR (FIR BDRY) 41 19 58N 020 29 41E						KFOR Sector
	121°	47.8	FL245 11000 FT ALT	C, D	ODD ↓	Skopje ACC
▲ BITLA (FIR BDRY) 40 52 32N 021 21 29E						Skopje ACC
						Makedonia ACC

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
N140* (RNP 5)						
▲ RAXAD (FIR BDRY) 42 18 30N 022 14 34E ▲ NASKO 41 46 01N 022 05 52E ▲ TALAS (FIR BDRY) 41 04 36N 021 55 00E	$\frac{187^\circ}{007^\circ}$	33.1	FL245 11000 FT ALT	C, D	EVEN ↓	Beograd ACC Skopje ACC
						↑ ODD
	187°	42.2			EVEN ↓	Skopje ACC Makedonia ACC
* The AWY N140 will be available only in case of unavailability of Kosovo airspace. See ENR 6.1-1 chart LOWER ATS ROUTES.						
N141 (RNP 5)						
▲ DOBAR (FIR BDRY) 41 19 58N 020 29 41E ▲ DISOR (FIR BDRY) 41 14 50N 022 45 30E	088°	102.5	FL245 11000 FT ALT	C, D	ODD ↓	Tirana ACC Skopje ACC
N146 (RNP 5)						
▲ BEKVA (FIR BDRY) 40 58 04N 021 41 42E ▲ MAVAR (FIR BDRY) 41 40 12N 020 31 48E	306°	68.7	FL245 11000 FT ALT	C, D	EVEN ↓	Makedonia ACC Skopje ACC

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
N731 (RNP 5)						
▲ LETNI (FIR BDRY) 42 05 49N 022 36 21E						Makedonia ACC
	214°	92.4	FL245 11000 FT ALT	C, D	EVEN ↓	Skopje ACC
▲ BITLA (FIR BDRY) 40 52 32N 021 21 29E						Skopje ACC
						Sofia ACC
P20 (RNP 5)						
▲ MAKED (FIR BDRY) 41 07 45N 022 31 00E						Makedonia ACC
	317°	79.7	FL245 11000 FT ALT	C, D	EVEN ↓	Skopje ACC
▲ LONTA (FIR BDRY) 42 09 34N 021 23 50E						Skopje ACC
						KFOR Sector
P36 (RNP 5)						
▲ MAKED (FIR BDRY) 41 07 45N 022 31 00E						Makedonia ACC
	330°	12.8	FL245 11000 FT ALT	C, D	EVEN ↓	Skopje ACC
△ NEGOT 41 19 12N 022 23 32E		29.9				
△ NASKO 41 46 01N 022 05 52E	007° 187°	33.1			ODD ↓	
▲ RAXAD (FIR BDRY) 42 18 30N 022 14 34E					↑ EVEN	Skopje ACC
						Beograd ACC

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
P92 (RNP 5)						
▲ MAVAR (FIR BDRY) 41 40 12N 020 31 48E						Tirana ACC Skopje ACC
△ GOSTI 41 48 42N 021 06 30E	$\frac{068^\circ}{248^\circ}$	27.3			ODD ↓	
△ BUREK 41 49 56N 021 11 49E	$\frac{069^\circ}{249^\circ}$	4.2				
▲ SKOPJE VOR/DME (SKJ) 41 56 06N 021 37 50E	$\frac{068^\circ}{249^\circ}$	20.4	<u>FL245</u> 11000 FT ALT	C, D	↑ EVEN	
▲ LETNI (FIR BDRY) 42 05 49N 022 36 21E	254°	44.7			↑ EVEN	Skopje ACC Sofia ACC
P127 (RNP 5)						
▲ DOBAR (FIR BDRY) 41 19 58N 020 29 41E						Tirana ACC Skopje ACC
△ NASKO 41 46 01N 022 05 52E	066°	76.8			ODD ↓	
▲ VELBA (FIR BDRY) 41 58 00N 022 53 00E	067°	37.2	<u>FL245</u> 11000 FT ALT	C, D		Skopje ACC Sofia ACC

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
P859 (RNP 5)						
▲ BITLA (FIR BDRY) 40 52 32N 021 21 29E						Makedonia ACC
▲ PRILEP NDB/DME (PEP) 41 20 16N 021 26 55E	004° 184°	28	FL245 11000 FT ALT	C, D	ODD ↓	Skopje ACC
	353° 173°	49.3			↑ EVEN	Skopje ACC
▲ LONTA (FIR BDRY) 42 09 34N 021 23 50E						KFOR Sector
T197 (RNP 5)						
▲ DOBAR (FIR BDRY) 41 19 58N 020 29 41E						Tirana ACC
△ BUREK 41 49 56N 021 11 49E	042°	43.6	FL245 11000 FT ALT	C, D	ODD ↓	Skopje ACC
	014°	19.2				
▲ XAXAN (FIR BDRY) 42 08 12N 021 19 37E						Skopje ACC
						Pristina APP
T198 (RNP 5)						
▲ TETOV 41 58 36N 020 59 24E						Skopje ACC
▲ MAVAR (FIR BDRY) 41 40 12N 020 31 48E	224°	27.6	FL245 11000 FT ALT	C, D	EVEN ↓	Skopje ACC

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
T214 (RNP 5)						
▲ DOBAR (FIR BDRY) 41 19 58N 020 29 41E	061° 242°	92.7	FL245 11000 FT ALT	C, D	ODD ↓	Tirana ACC
					↑ EVEN	Skopje ACC
▲ SINKO VOR/DME (SIN) 41 58 51N 022 21 56E	233°	12.8	FL245 11000 FT ALT	C, D	↑ EVEN	Skopje ACC
					↑ EVEN	Sofia ACC
▲ LETNI (FIR BDRY) 42 05 49N 022 36 21E						Sofia ACC
T215 (RNP 5)						
▲ SARAX (FIR BDRY) 42 05 49N 020 53 44E	102°	34.3	FL245 11000 FT ALT	C, D	ODD ↓	Pristina APP
					↑ EVEN	Skopje ACC
▲ SKOPJE VOR/DME (SKJ) 41 56 06N 021 37 50E	081° 261°	33	FL245 8000 FT ALT	C, D	↑ EVEN	Skopje ACC
					↑ EVEN	Sofia ACC
▲ SINKO VOR/DME (SIN) 41 58 51N 022 21 56E	088°	23.2			ODD ↓	Skopje ACC
▲ VELBA (FIR BDRY) 41 58 00N 022 53 00E						Sofia ACC

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
T216 (RNP 5)						
▲ DOBAR (FIR BDRY) 41 19 58N 020 29 41E						Tirana ACC Skopje ACC
▲ PRILEP NDB/DME (PEP) 41 20 16N 021 26 55E	$\frac{085^\circ}{266^\circ}$	43.1	<u>FL245</u> 11000 FT ALT	C, D	ODD ↓ ↑ EVEN	
▲ RAXAD (FIR BDRY) 42 18 30N 022 14 34E	$\frac{027^\circ}{208^\circ}$	68.2			EVEN ↓ ↑ ODD	
						Skopje ACC Beograd ACC
T217 (RNP 5)						
▲ SARAX (FIR BDRY) 42 05 49N 020 53 44E						Pristina APP Skopje ACC
△ TETOV 41 58 36N 020 59 24E	146°	8.4	<u>FL245</u> 11000 FT ALT	C, D	ODD ↓	
△ GOSTI 41 48 42N 021 06 30E	148°	11.2 32.3				
▲ PRILEP NDB/DME (PEP) 41 20 16N 021 26 55E	122°	26.4	<u>FL245</u> 8500 FT ALT			Skopje ACC Makedonia ACC
▲ TALAS (FIR BDRY) 41 04 36N 021 55 00E						

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
T218 (RNP 5)						
▲ DISOR (FIR BDRY) 41 14 50N 022 45 30E ▲ SKOPJE VOR/DME (SKJ) 41 56 06N 021 37 50E ▲ XAXAN (FIR BDRY) 42 08 12N 021 19 37E						Makedonia ACC
	305°	65.4	FL245 7500 FT ALT	C, D	EVEN ↓	Skopje ACC
	308°	18.2	FL245 10500 FT ALT			
						Skopje ACC
					Pristina APP	
T261 (RNP 5)						
▲ BITLA (FIR BDRY) 40 52 32N 021 21 29E ▲ RAXAD (FIR BDRY) 42 18 30N 022 14 34E						Makedonia ACC
	021° 201°	94.7	FL245 11000 FT ALT	C, D	ODD ↓	Skopje ACC
						↑ EVEN
						Beograd ACC
T262 (RNP 5)						
▲ LETNI (FIR BDRY) 42 05 49N 022 36 21E ▲ ERANA (FIR BDRY) 41 09 48N 022 14 22E						Sofia ACC
	193°	58.4	FL245 11000 FT ALT	C, D	EVEN ↓	Skopje ACC
						Makedonia ACC

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
T263 (RNP 5)						
▲ LETNI (FIR BDRY) 42 05 49N 022 36 21E						Sofia ACC
	269°	57.2	FL245 11000 FT ALT	C, D	EVEN ↓	Skopje ACC
▲ XAXAN (FIR BDRY) 42 08 12N 021 19 37E						Skopje ACC
						Pristina APP
T343 (RNP 5)						
▲ BITLA (FIR BDRY) 40 52 32N 021 21 29E						Makedonia ACC
	042°	95	FL245 11000 FT ALT	C, D	ODD ↓	Skopje ACC
▲ VELBA (FIR BDRY) 41 58 00N 022 53 00E						Skopje ACC
						Sofia ACC
T389 (RNP 5)						
△ NASKO 41 46 01N 022 05 52E						Skopje ACC
	166°	36.8	FL245 11000 FT ALT	C, D	ODD ↓	Skopje ACC
▲ ERANA (FIR BDRY) 41 09 48N 022 14 22E						Skopje ACC
						Makedonia ACC

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
Y400 (RNP 5)						
▲ MAVAR (FIR BDRY) 41 40 12N 020 31 48E	$\frac{099^\circ}{281^\circ}$	86.5	<u>FL245</u> 11000 FT ALT	C, D	ODD ↓	Tirana ACC
						Skopje ACC
△ NEGOT 41 19 12N 022 23 32E	$\frac{101^\circ}{281^\circ}$	17.1	<u>FL245</u> 11000 FT ALT	C, D	↑ EVEN	Skopje ACC
▲ DISOR (FIR BDRY) 41 14 50N 022 45 30E						Makedonia ACC
Y500 (RNP 5)						
▲ SARAX (FIR BDRY) 42 05 49N 020 53 44E	117°	98	<u>FL245</u> 11000 FT ALT	C, D	ODD ↓	Pristina APP
						Skopje ACC
▲ DISOR (FIR BDRY) 41 14 50N 022 45 30E						Skopje ACC Makedonia ACC
Y550 (RNP 5)						
▲ KOGAT (FIR BDRY) 42 06 45N 021 03 20E	155°	18	<u>FL245</u> 11000 FT ALT	C, D	ODD ↓	KFOR Sector
		31.7				Skopje ACC
△ BUREK 41 49 56N 021 11 49E						Skopje ACC
▲ PRILEP NDB/DME (PEP) 41 20 16N 021 26 55E						Skopje ACC

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3.3.2 Горни рути за просторна навигација

3.3.2 Upper area navigation routes

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
UL603 (RNP 5)						
▲ OLOTA (FIR BDRY) 42 13 48N 021 37 00E						KFOR Sector Skopje ACC
	131°	75.5	FL660 FL245	C	ODD ↓	
▲ RUGAS (FIR BDRY) 41 19 46N 022 47 29E						Skopje ACC Makedonia ACC
UL608 (RNP 5)						
▲ DISOR (FIR BDRY) 41 14 50N 022 45 30E						Makedonia ACC Skopje ACC
	308°	82.1	FL660 FL245	C	EVEN ↓	
▲ LONTA (FIR BDRY) 42 09 34N 021 23 50E						Skopje ACC KFOR Sector
UL616 (RNP 5)						
▲ KOGAT (FIR BDRY) 42 06 45N 021 03 20E						KFOR Sector Skopje ACC
	165°	75.4	FL660 FL245	C	ODD ↓	
▲ BITLA (FIR BDRY) 40 52 32N 021 21 29E						Skopje ACC Makedonia ACC

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
UL617 (RNP 5)						
▲ RAXAD (FIR BDRY) 42 18 30N 022 14 34E	166° 346°	71.8	FL660 FL245	C	ODD ↓ ↑ EVEN	Beograd ACC
						Skopje ACC
▲ MAKED (FIR BDRY) 41 07 45N 022 31 00E						Skopje ACC
						Makedonia ACC
Availability: RAXAD - MAKED: H24 MAKED - RAXAD: 2200 - 0400						
UL737 (RNP 5)						
▲ KOGAT (FIR BDRY) 42 06 45N 021 03 20E	133°	78	FL660 FL245	C	ODD ↓	KFOR Sector
						Skopje ACC
▲ ERANA (FIR BDRY) 41 09 48N 022 14 22E						Skopje ACC
						Makedonia ACC
UM22 (RNP 5)						
▲ DOBAR (FIR BDRY) 41 19 58N 020 29 41E	099°	66.2	FL660 FL245	C	ODD ↓	Tirana ACC
						Skopje ACC
▲ TALAS (FIR BDRY) 41 04 36N 021 55 00E						Skopje ACC
						Makedonia ACC

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks	
UM749 (RNP 5)							
▲ TALAS (FIR BDRY) 41 04 36N 021 55 00E	336°	69	FL660 FL245	C	EVEN ↓	Makedonia ACC	
						Skopje ACC	
▲ LONTA (FIR BDRY) 42 09 34N 021 23 50E						Skopje ACC	
						KFOR Sector	
UM867 (RNP 5)							
▲ KOGAT (FIR BDRY) 42 06 45N 021 03 20E	120°	92.5	FL660 FL245	C	ODD ↓	KFOR Sector	
						Skopje ACC	
▲ DISOR (FIR BDRY) 41 14 50N 022 45 30E						Skopje ACC	
						Makedonia ACC	
UN128 (RNP 5)							
▲ RUGAS (FIR BDRY) 41 19 46N 022 47 29E	330° 150°	43.5	FL660 FL245	C	EVEN ↓	Makedonia ACC	
						Skopje ACC	
▲ SINKO VOR/DME (SIN) 41 58 51N 022 21 56E	340° 160°	20.4				↑ ODD	Skopje ACC
▲ RAXAD (FIR BDRY) 42 18 30N 022 14 34E						Skopje ACC	
						Beograd ACC	

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
UN130 (RNP 5)						
▲ MAVAR (FIR BDRY) 41 40 12N 020 31 48E					ODD ↓	Tirana ACC Skopje ACC
▲ TALAS (FIR BDRY) 41 04 36N 021 55 00E	115° 296°	72	FL660 FL245	C	↑ EVEN	Skopje ACC Makedonia ACC
UN132 (RNP 5)						
▲ MAVAR (FIR BDRY) 41 40 12N 020 31 48E					ODD ↓	Tirana ACC Skopje ACC
▲ BITLA (FIR BDRY) 40 52 32N 021 21 29E	138°	60.6	FL660 FL245	C	↓	Skopje ACC Makedonia ACC
UN137 (RNP 5)						
▲ DOBAR (FIR BDRY) 41 19 58N 020 29 41E					ODD ↓	KFOR Sector Skopje ACC
▲ BITLA (FIR BDRY) 40 52 32N 021 21 29E	121°	47.8	FL660 FL245	C	↓	Skopje ACC Makedonia ACC

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
UN140* (RNP 5)						
▲ RAXAD (FIR BDRY) 42 18 30N 022 14 34E △ NASKO 41 46 01N 022 05 52E ▲ TALAS (FIR BDRY) 41 04 36N 021 55 00E	$\frac{187^\circ}{007^\circ}$	33.1	$\frac{FL660}{FL245}$	C	EVEN ↓	Beograd ACC
					↑ ODD	Skopje ACC
	187°	42.2			EVEN ↓	Skopje ACC
* The AWY UN 140 will be available only in case of unavailability of Kosovo airspace. See ENR 6.1-3 chart UPPER ATS ROUTES.						
UN141 (RNP 5)						
▲ DOBAR (FIR BDRY) 41 19 58N 020 29 41E ▲ DISOR (FIR BDRY) 41 14 50N 022 45 30E	088°	102.5	$\frac{FL660}{FL245}$	C	ODD ↓	Tirana ACC
						Skopje ACC
						Makedonia ACC
UN146 (RNP 5)						
▲ BEKVA (FIR BDRY) 40 58 04N 021 41 42E ▲ MAVAR (FIR BDRY) 41 40 12N 020 31 48E	306°	68.7	$\frac{FL660}{FL245}$	C	EVEN ↓	Makedonia ACC
						Skopje ACC
						Tirana ACC

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
UN731 (RNP 5)						
▲ LETNI (FIR BDRY) 42 05 49N 022 36 21E ▲ BITLA (FIR BDRY) 40 52 32N 021 21 29E						Makedonia ACC
	214°	92.4	FL660 FL245	C	EVEN ↓	Skopje ACC
						Skopje ACC Sofia ACC
UP20 (RNP 5)						
▲ MAKED (FIR BDRY) 41 07 45N 022 31 00E ▲ LONTA (FIR BDRY) 42 09 34N 021 23 50E						Makedonia ACC
	317°	79.7	FL660 FL245	C	EVEN ↓	Skopje ACC
						Skopje ACC KFOR Sector
UP36 (RNP 5)						
▲ MAKED (FIR BDRY) 41 07 45N 022 31 00E △ NEGOT 41 19 12N 022 23 32E △ NASKO 41 46 01N 022 05 52E ▲ RAXAD (FIR BDRY) 42 18 30N 022 14 34E						Makedonia ACC
	330°	12.8	FL660 FL245	C	EVEN ↓	Skopje ACC
		29.9				
	007° 187°	33.1			ODD ↓ ↑ EVEN	Skopje ACC
					Beograd ACC	

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
UP92 (RNP 5)						
▲ MAVAR (FIR BDRY) 41 40 12N 020 31 48E						Tirana ACC Skopje ACC
△ GOSTI 41 48 42N 021 06 30E	$\frac{068^\circ}{248^\circ}$	27.3			ODD ↓	
△ BUREK 41 49 56N 021 11 49E	$\frac{069^\circ}{249^\circ}$	4.2	$\frac{FL660}{FL245}$	C	↑ EVEN	
▲ SKOPJE VOR/DME (SKJ) 41 56 06N 021 37 50E	$\frac{068^\circ}{249^\circ}$	20.4			↑ EVEN	
▲ LETNI (FIR BDRY) 42 05 49N 022 36 21E	254°	44.7			↑ EVEN	Skopje ACC Sofia ACC
UP127 (RNP 5)						
▲ DOBAR (FIR BDRY) 41 19 58N 020 29 41E						Tirana ACC Skopje ACC
△ NASKO 41 46 01N 022 05 52E	066°	76.8	$\frac{FL660}{FL245}$	C	ODD ↓	
▲ VELBA (FIR BDRY) 41 58 00N 022 53 00E	067°	37.2				Skopje ACC Sofia ACC

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
UP859 (RNP 5)						
▲ BITLA (FIR BDRY) 40 52 32N 021 21 29E	$\frac{004^\circ}{184^\circ}$	28	FL660 FL245	C	EVEN ↓	Makedonia ACC Skopje ACC
					353° 173°	49.3
▲ PRILEP NDB/DME (PEP) 41 20 16N 021 26 55E						
△ LONTA (FIR BDRY) 42 09 34N 021 23 50E						
UT214 (RNP 5)						
▲ DOBAR (FIR BDRY) 41 19 58N 020 29 41E	$\frac{061^\circ}{242^\circ}$	92.7	FL660 FL245	C	ODD ↓	Tirana ACC Skopje ACC
					233°	12.8
▲ SINKO VOR/DME (SIN) 41 58 51N 022 21 56E						
▲ LETNI (FIR BDRY) 42 05 49N 022 36 21E						
UT215 (RNP 5)						
▲ SKOPJE VOR/DME (SKJ) 41 56 06N 021 37 50E	$\frac{081^\circ}{261^\circ}$	33	FL660 FL245	C	ODD ↓	Skopje ACC
					088°	23.2
▲ SINKO VOR/DME (SIN) 41 58 51N 022 21 56E						
▲ VELBA (FIR BDRY) 41 58 00N 022 53 00E						

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
UT216 (RNP 5)						
▲ DOBAR (FIR BDRY) 41 19 58N 020 29 41E	085° 266°	43.1	FL660 FL245	C	ODD ↓	Tirana ACC Skopje ACC
					EVEN ↑	
▲ PRILEP NDB/DME (PEP) 41 20 16N 021 26 55E	027° 208°	68.2	FL660 FL245	C	EVEN ↓	
					ODD ↑	Skopje ACC Beograd ACC
▲ RAXAD (FIR BDRY) 42 18 30N 022 14 34E						
UT217 (RNP 5)						
▲ SARAX (FIR BDRY) 42 05 49N 020 53 44E	146°	8.4	FL660 FL245	C, D	ODD ↓	Pristina APP Skopje ACC
△ TETOV 41 58 36N 020 59 24E		11.2				
△ GOSTI 41 48 42N 021 06 30E	148°	32.3	FL660 FL245	C, D		
▲ PRILEP NDB/DME (PEP) 41 20 16N 021 26 55E		26.4				
▲ TALAS (FIR BDRY) 41 04 36N 021 55 00E						Skopje ACC Makedonia ACC

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
UT261 (RNP 5)						
▲ BITLA (FIR BDRY) 40 52 32N 021 21 29E						Makedonia ACC
	021° 201°	94.7	FL660 FL245	C	ODD ↓	Skopje ACC
↑ EVEN					Skopje ACC	
▲ RAXAD (FIR BDRY) 42 18 30N 022 14 34E						Beograd ACC
UT262 (RNP 5)						
▲ LETNI (FIR BDRY) 42 05 49N 022 36 21E						Sofia ACC
	193°	58.4	FL660 FL245	C	EVEN ↓	Skopje ACC
					Skopje ACC	
▲ ERANA (FIR BDRY) 41 09 48N 022 14 22E						Makedonia ACC
UT263 (RNP 5)						
▲ LETNI (FIR BDRY) 42 05 49N 022 36 21E						Sofia ACC
	269°	57.2	FL660 FL245	C	EVEN ↓	Skopje ACC
					Skopje ACC	
▲ XAXAN (FIR BDRY) 42 08 12N 021 19 37E						Pristina APP

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks	
UT343 (RNP 5)							
▲ BITLA (FIR BDRY) 40 52 32N 021 21 29E	042°	95	FL660 FL245	C	ODD ↓	Sofia ACC	
						Skopje ACC	
▲ VELBA (FIR BDRY) 41 58 00N 022 53 00E						Skopje ACC	
						Makedonia ACC	
UT389 (RNP 5)							
△ NASKO 41 46 01N 022 05 52E	166°	36.8	FL660 FL245	C	ODD ↓	Skopje ACC	
▲ ERANA (FIR BDRY) 41 09 48N 022 14 22E						Skopje ACC	
						Makedonia ACC	
UY400 (RNP 5)							
▲ MAVAR (FIR BDRY) 41 40 12N 020 31 48E	099° 281°	86.5	FL660 FL245	C	ODD ↓	Tirana ACC	
						Skopje ACC	
△ NEGOT 41 19 12N 022 23 32E	101° 281°	17.1				↑ EVEN	Skopje ACC
▲ DISOR (FIR BDRY) 41 14 50N 022 45 30E						Skopje ACC	
						Makedonia ACC	

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
UY500 (RNP 5)						
▲ SARAX (FIR BDRY) 42 05 49N 020 53 44E						Pristina APP
	117°	98	FL660 FL245	C	ODD ↓	Skopje ACC
▲ DISOR (FIR BDRY) 41 14 50N 022 45 30E						Skopje ACC
						Makedonia ACC
UY550 (RNP 5)						
▲ KOGAT (FIR BDRY) 42 06 45N 021 03 20E						KFOR Sector
	155°	18	FL660 FL245	C	ODD ↓	Skopje ACC
△ BUREK 41 49 56N 021 11 49E		31.7				
▲ PRILEP NDB/DME (PEP) 41 20 16N 021 26 55E						Skopje ACC

**LWOH AD 2.24 Charts related to
aerodrome**
**LWOH AD 2.24 Мапи во врска со
аеродромот**

NAME НАЗИВ	PAGE СТРАНИЦА
Aerodrome Chart - ICAO Аеродромска Мапа - ICAO	AD LWOH 2.24-3
Aircraft Parking/Docking Chart - ICAO Мапа за паркирање на воздухоплови - ICAO	AD LWOH 2.24-5
Standard Arrival Chart - Instrument (STAR) - ICAO RWY 01 Стандардна мапа на доаѓање – инструмент (STAR) - ICAO RWY 01	AD LWOH 2.24-7
Instrument Approach Chart - ICAO ILS RWY 01 CAT I (aircraft category A, B, C) Мапа за инструментален приод - ICAO ILS RWY 01 CAT I (категија на воздухоплови A, B, C)	AD LWOH 2.24-9
Instrument Approach Chart - ICAO ILS RWY 01 CAT I (non-standard, aircraft category D) Мапа за инструментален приод - ICAO ILS RWY 01 CAT I (не-стандардна, категија на воздухоплови D)	AD LWOH 2.24-11
Instrument Approach Chart - ICAO VOR RWY 01 CAT I (aircraft category A, B) Мапа за инструментален приод - ICAO VOR RWY 01 CAT I (категија на воздухоплови A, B)	AD LWOH 2.24-13
Instrument Approach Chart - ICAO VOR RWY 01 CAT I (aircraft category C) Мапа за инструментален приод - ICAO VOR RWY 01 CAT I (категија на воздухоплови C)	AD LWOH 2.24-15
Instrument Approach Chart - ICAO VOR RWY 01 CAT I (non-standard, aircraft category D) Мапа за инструментален приод - ICAO VOR RWY 01 CAT I (не-стандардна, категија на воздухоплови D)	AD LWOH 2.24-17
Standard Departure Chart - Instrument (SID) - ICAO RWY 01 (aircraft category A, B, C) Стандардна мапа на полетување – Инструмент (SID) - ICAO RWY 01 (категија на воздухоплови A, B, C)	AD LWOH 2.24-19
Standard Departure Chart - Instrument (SID) - ICAO RWY 19 (aircraft category A, B, C) Стандардна мапа на полетување – Инструмент (SID) - ICAO RWY 19 (категија на воздухоплови A, B, C)	AD LWOH 2.24-21
Standard Departure Chart - Instrument (SID) - ICAO RWY 19 (aircraft category D) Стандардна мапа на полетување – Инструмент (SID) - ICAO RWY 19 (категија на воздухоплови D)	AD LWOH 2.24-23
Aerodrome Obstacle Chart - ICAO Type A RWY 01/19 Мапа на аеродромски препреки - ICAO Type A RWY 01/19	AD LWOH 2.24-25

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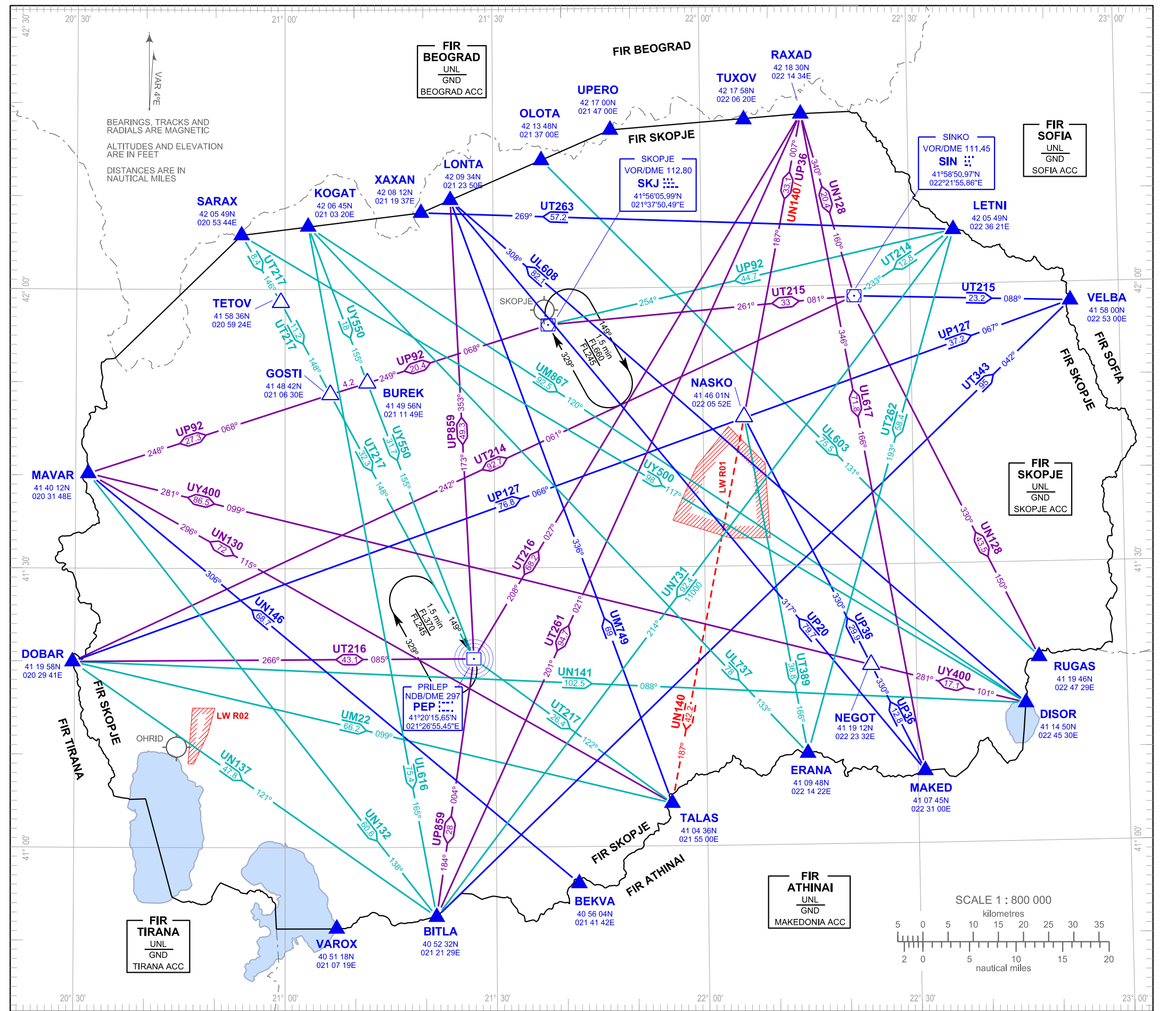
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Aerodrome	
Flight Information Region (FIR)	
Name of FIR	FIR SKOPJE
Upper Limit	UNL
Lower Limit	GND
Unit Providing Control Service	SKOPJE ACC
Terminal Control Area (TMA)	
Name of TMA	TMA SKOPJE
Upper Limit	FL145
Lower Limit	GND
Unit Providing Approach Control Service	SKOPJE APP
Control Zone (CTR)	
Name of CTR	CTR SKOPJE
Upper Limit	4000'
Unit Providing Aerodrome Control Service	SKOPJE TWR
ATS and RNAV Route	<p>Southbound </p> <p>Northbound </p> <p>Bidirectional </p> <p>Alternative solution in case of unavailability of Kosovo airspace </p> <p>Route Designator: UP92</p> <p>Magnetic Track: 250° - 28° - 070°</p> <p>Distance in Nautical Miles: 250 - 28 - 070</p>
Reporting Point (REP)	<p>Compulsory </p> <p>On request </p>
Restricted Airspace	<p>Identification of Area: LW R02</p> <p>Nationality Letter: P - Prohibited, R - Restricted, D - Danger</p>
Radio Navigation Aids (NAVAID)	<p>Non - directional Radio Beacon (NDB) </p> <p>Co - located VOR and DME Navigation Aids (VOR/DME) </p>
Identification for Radio Navigation Aids (NAVAID)	<p>Name: SKOPJE</p> <p>NAVAID, Frequency, Identification or Call Sign: VOR/DME 112.80 SKJ</p> <p>Geographical Coordinates: 41°56'05.99"N 021°37'50.49"E</p>

FIR SKOPJE

ENROUTE CHART - ICAO

UPPER AIRSPACE FL245 / FL660



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