

REPUBLIC OF MACEDONIA

CIVIL AVIATION
AGENCY

AERONAUTICAL INFORMATION
SERVICE

Bosfor 7, Mralino 1041 Ilinden



АГЕНЦИЈА ЗА ЦИВИЛНО
ВОЗДУХОПЛОВСТВО

СЛУЖБА ЗА ВОЗДУХОПЛОВНИ
ИНФОРМАЦИИ

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AMD AIP 60
AIRAC 13 APR 2017

EFFECTIVE DATE
СТАПУВА ВО СИЛА НА
25 MAY 2017

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Insert following pages or charts Вметни ги следниве страници или карти		Destroy following pages or charts: Уништи ги следниве страници или карти:	
ENR		ENR	
• ENR 2.1-1/2.1-2	25 MAY 2017	• ENR 2.1-1/2.1-2	15 MAY 2014
• ENR 4.3-1/4.3-2	23 JUN 2016/25 MAY 2017	• ENR 4.3-1/4.3-2	23 JUN 2016
• ENR 3.3-5/3.3-6	25 MAY 2017/23 JUN 2016	• ENR 3.3-5/3.3-6	23 JUN 2016
• ENR 3.3-7/3.3-8	23 JUN 2016/25 MAY 2017	• ENR 3.3-7/3.3-8	23 JUN 2016
• ENR 3.3-11/3.3-12	25 MAY 2017/23 JUN 2016	• ENR 3.3-11/3.3-12	23 JUN 2016
• ENR 6.1-1/6.1-2	25 MAY 2017	• ENR 6.1-1/6.1-2	26 MAY 2016/22 APR 1999
AD		AD	
• LWSK AD 2.24-25/2.24-26	25 MAY 2017/26 MAY 2016	• LWSK AD 2.24-25/2.24-26	26 MAY 2016

**ENR 2 ВОЗДУШЕН ПРОСТОР ВО
НАДЛЕЖНОСТ НА ВОЗДУХОПЛОВНИТЕ
СЛУЖБИ**
ENR 2 AIR TRAFFIC SERVICES AIRSPACE
ENR 2.1 FIR, UIR, TMA
ENR 2.1 FIR, UIR, TMA

Name, lateral limits	Vertical limits	Unit providing service (Language)	Radio call sign and frequencies	Airspace classification	Remarks
<i>English</i>					
<u>Flight Information Region Skopje</u> From 421840N 0222137E along Macedonian/Bulgarian border, along Macedonian / Greek border, along Macedonian/Albanian border to 415237N 0203537E, and combination of segments (broken straight lines) as follows ¹ : 420549N 0205344E (SARAX) 420812N 0211937E (XAXAN) 421700N 0214700E 421830N 0221434E (RAXAD) and 421840N 0222137E	FIR <u>UNL</u> GND	ACC SKOPJE (EN, MCD)	SKOPJE CONTROL/ RADAR 119,375 136,425 369,300**	C* D* E* G*	* see ENR 1.4.2 **Only for non-8.33KHz compliant State Aircraft
<u>Lower Control Area Skopje</u> From 421840N 0222137E along Macedonian/Bulgarian border, along Macedonian / Greek border, along Macedonian/Albanian border to 415237N 0203537E, and combination of segments (broken straight lines) as follows ¹ : 420549N 0205344E (SARAX) 420812N 0211937E (XAXAN) 421700N 0214700E 421830N 0221434E (RAXAD) and 421840N 0222137E	CTA <u>FL 245</u> 1000ft GND	ACC SKOPJE (EN, MCD)	SKOPJE CONTROL/ RADAR 119.375	C D E	
<u>Upper Control Area Skopje/High</u> From 421840N 0222137E along Macedonian/Bulgarian border, along Macedonian / Greek border, along Macedonian/Albanian border to 415237N 0203537E, and combination of segments (broken straight lines) as follows ¹ : 420549N 0205344E (SARAX) 420812N 0211937E (XAXAN) 421700N 0214700E 421830N 0221434E (RAXAD) and 421840N 0222137E	UTA/H <u>FL 365</u> <u>FL 245</u>	ACC SKOPJE (EN, MCD)	SKOPJE CONTROL/ RADAR 119,375	C	

Name, lateral limits	Vertical limits	Unit providing service (Language)	Radio call sign and frequencies	Airspace classification	Remarks
<i>English</i>					
<u>Upper Control Area Skopje/Upper</u> From 421840N 0222137E along Macedonian/Bulgarian border, along Macedonian / Greek border, along Macedonian/Albanian border to 415237N 0203537E, and combination of segments (broken straight lines) as follows ¹ : 420549N 0205344E (SARAX) 420812N 0211937E (XAXAN) 421700N 0214700E 421830N 0221434E (RAXAD) and 421840N 0222137E	UTA/U <u>FL 385</u> FL 365	ACC SKOPJE (EN, MCD)	SKOPJE CONTROL/ RADAR 120,015	C	
<u>Upper Control Area Skopje/Top</u> From 421840N 0222137E along Macedonian/Bulgarian border, along Macedonian / Greek border, along Macedonian/Albanian border to 415237N 0203537E, and combination of segments (broken straight lines) as follows ¹ : 420549N 0205344E (SARAX) 420812N 0211937E (XAXAN) 421700N 0214700E 421830N 0221434E (RAXAD) and 421840N 0222137E	UTA/T <u>FL 660</u> FL 385	ACC SKOPJE (EN, MCD)	SKOPJE CONTROL/ RADAR 136,425	C	
<i>Note: When the whole FIR Skopje is operating as one sector 119,375 MHz frequency shall be used</i>					
<u>Terminal Control Area Skopje</u> 421830N 0221434E (RAXAD) 415721N 0222256E (SINKO) 412018N 0215524E (TIKVA) 412016N 0212655E (PEP NDB/DME) 420549N 0205344E (SARAX) 420812N 0211937E (XAXAN) 421700N 0214700E 421830N 0221434E (RAXAD)	TMA <u>FL 145</u> GND	APP SKOPJE (EN, MCD)	SKOPJE APPROACH 120,3	D E	*see ENR 1.4.2
¹ Combination of segments (broken straight lines) between significant points are temporarily established for the operational purposes (according to ICAO recommendation) on the northern boundary with Serbia and Kosovo. Final determination of the FIR boundary will be done after the final delineation of the state borders.					

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
N140* (RNAV 5)						
△ NASKO 41 46 01N 022 05 52E						Beograd ACC Skopje ACC
	187°	42.2	FL245 11000 FT ALT	C, D	EVEN ↓	
▲ TALAS (FIR BDRY) 41 04 36N 021 55 00E						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 (RNAV 5)						
▲ DOBAR (FIR BDRY) 41 19 58N 020 29 41E						Tirana ACC Skopje ACC
	088°	102.5	FL245 11000 FT ALT	C, D	ODD ↓	
▲ DISOR (FIR BDRY) 41 14 50N 022 45 30E						Skopje ACC Makedonia ACC
N146 (RNAV 5)						
▲ BEKVA (FIR BDRY) 40 58 04N 021 41 42E						Makedonia ACC Skopje ACC
	306°	68.7	FL245 11000 FT ALT	C, D	EVEN ↓	
▲ MAVAR (FIR BDRY) 41 40 12N 020 31 48E						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
N731 (RNAV 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 (RNAV 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 (RNAV 5)						
▲ MAKED (FIR BDRY) 41 07 45N 022 31 00E						Makedonia ACC
△ NEGOT 41 19 12N 022 23 32E	330°	12.8	FL245 11000 FT ALT	C, D	EVEN ↓	Skopje ACC
		29.9				
△ NASKO 41 46 01N 022 05 52E	007° 187°	33.1			ODD ↓ ↑ EVEN	Skopje ACC
▲ RAXAD (FIR BDRY) 42 18 30N 022 14 34E						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 (RNAV 5)						
▲ MAVAR (FIR BDRY) 41 40 12N 020 31 48E						Tirana ACC Skopje ACC
△ GOSTI 41 48 42N 021 06 30E	068° 248°	27.3			ODD ↓	
△ BUREK 41 49 56N 021 11 49E	069° 249°	4.2	FL245 11000 FT ALT	C, D	↑ EVEN	
▲ SKOPJE VOR/DME (SKJ) 41 56 06N 021 37 50E	068° 249°	20.4			↑ EVEN	
▲ LETNI (FIR BDRY) 42 05 49N 022 36 21E	254°	44.7			↑ EVEN	Skopje ACC Sofia ACC
P127 (RNAV 5)						
▲ DOBAR (FIR BDRY) 41 19 58N 020 29 41E						Tirana ACC Skopje ACC
△ NASKO 41 46 01N 022 05 52E	066°	76.8	FL245 11000 FT ALT	C, D	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
P859 (RNAV 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 ↓ ↑ EVEN	Skopje ACC
▲ LONTA (FIR BDRY) 42 09 34N 021 23 50E	353° 173°	49.3			EVEN ↓ ↑ ODD	Skopje ACC
						KFOR Sector
T197 (RNAV 5)						
▲ DOBAR (FIR BDRY) 41 19 58N 020 29 41E						Tirana ACC Skopje ACC
△ BUREK 41 49 56N 021 11 49E	042°	43.6	FL245 11000 FT ALT	C, D	ODD ↓	
▲ XAXAN (FIR BDRY) 42 08 12N 021 19 37E	014°	19.2				Skopje ACC
						Pristina APP
T198 (RNAV 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
						Tirana ACC

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

Route name (designator) and significant points	MAG track	Dist NM	Upper Limit Lower Limit	Airspace classification	Direction of flight AVBL LVL	Remarks
T263 (RNAV 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 (RNAV 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 (RNAV 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

ENR 4.3 Кодирани ознаки за значајни точки

ENR 4.3 Name-code designator for significant points

Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/Usage
BEKVA	405604N 0214142E	N146	(E) Entry Point	Entry point for departure LGTS only EVEN FL for entering aircraft
BITLA	405232N 0212129E	L616, N132, N137, N731, P859, T261, T343	(E/X) Entry Exit Point	ODD FL, FL290 or below for entering aircraft ODD FL, FL310 or above for exiting aircraft flying eastbound EVEN FL, FL 320 or below for exiting aircraft flying westbound
BUREK	414956N 0211149E	P92, T197, Y550	(A) Arrival Point	
DISOR	411450N 0224530E	L608, M867, N141, T218, Y400, Y500	(E/X) Entry Exit Point	EVEN FL for entering aircraft ODD FL for exiting aircraft
DOBAR	411958N 0202941E	M22, N137, N141, T197, T214, T216, P127	(E/X) Entry Exit Point	ODD FL for entering aircraft EVEN FL for exiting aircraft
ERANA	410948N 0221422E	L737, T262, T389	(X) Exit Point	ODD FL for exiting aircraft flying eastbound EVEN FL for exiting aircraft flying westbound
GOSTI	414842N 0210630E	P92, T217	(A/D) Arrival Departure Point	
KOGAT	420645N 0210320E	L616, L737, M867, Y550	(E) Entry Point	ODD FL for entering aircraft
KORIV	413515N 0221218E		N/A	
LETNI	420549N 0223621E	N731, P92, T214, T262, T263	(E) Entry Point	EVEN FL for entering aircraft
LONTA	420934N 0212350E	L608, M749, P20, P859	(X) Exit Point	EVEN fl for exiting aircraft
MAKED	410745N 0223100E	L617, P20, P36	(E/X) Entry Exit Point	EVEN FL for entering aircraft ODD FL for exiting aircraft
MAVAR	414012N 0203148E	N130, N132, N146, P92, T198, Y400	(E/X/A) Entry Exit Arrival Point	ODD FL for entering aircraft EVEN FL for exiting aircraft
NASKO	414601N 0220552E	N140, P36, T389, P127	N/A	
NEGOT	411912N 0222332E	P36, Y400	N/A	

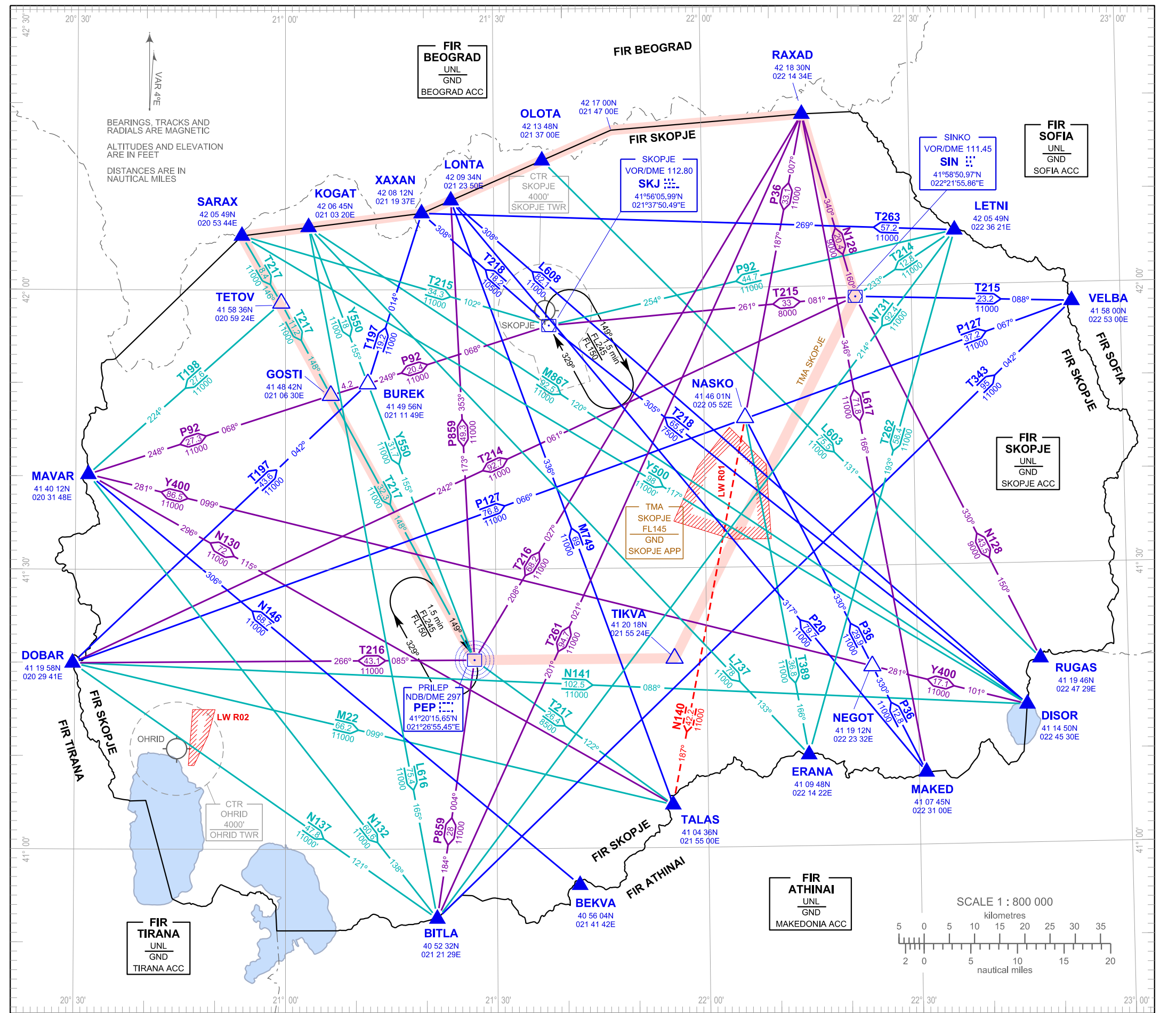
Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/Usage
OLOTA	421348N 0213700E	L603	(E) Entry Point	ODD FL for entering aircraft
RAXAD	421830N 0221434E	L617, N128, N140, P36, T216, T261	(E/X/D) Entry Exit Departure Point	ODD FL for entering aircraft EVEN FL for exiting aircraft
RUGAS	411946N 0224729E	L603, N128	(E/X/A/D) Entry Exit Arrival Departure Point	EVEN FL for entering aircraft ODD FL for exiting aircraft
SARAX	420549N 0205344E	T215, T217, Y500	(E/A) Entry Arrival Point	Entry point for departure LYPR (BKPR) only EVEN FL for entering aircraft
TALAS	410436N 0215500E	M22, M749, N130, N140, T217	(E/X) Entry Exit Point	EVEN FL for entering aircraft ODD FL for exiting aircraft
TETOV	415836N 0205924E	T198, T217	(A/D) Arrival Departure Point	
TIKVA	412018N 0215524E		N/A	
TUTAM	415646N 0220107E		N/A	
VELBA	415800N 0225300E	T215, T343, P127	(X) Exit Point	ODD FL for exiting aircraft
XAXAN	420812N 0211937E	T197, T218, T263	(X) Exit Point	Exit point fo Arrival LYPR (BKPR) only ODD FL for exiting aircraft

Aerodrome	
Flight Information Region (FIR)	FIR SKOPJE UNL GND SKOPJE ACC
Name of FIR Upper Limit Lower Limit Unit Providing Control Service	
Terminal Control Area (TMA)	TMA SKOPJE FL145 GND SKOPJE APP
Name of TMA Upper Limit Lower Limit Unit Providing Approach Control Service	
Control Zone (CTR)	CTR SKOPJE 4000' SKOPJE TWR
Name of CTR Upper Limit Unit Providing Aerodrome Control Service	
ATS and RNAV Route	Southbound Northbound Bidirectional Alternative solution in case of unavailability of Kosovo airspace
Route Designator Magnetic Track Distance in Nautical Miles Lower Limit	P92 250° - 28 - 070° 11000
Reporting Point (REP)	Compulsory ▲ On request ▲
Restricted Airspace	Identification of Area Nationality Letter P - Prohibited R - Restricted D - Danger LW R02
Radio Navigation Aids (NAVAID)	Non - directional Radio Beacon (NDB) Co - located VOR and DME Navigation Aids (VOR/DME)
Identification for Radio Navigation Aids (NAVAID)	SKOPJE VOR/DME 112.80 SKJ 41°56'05.99"N 021°37'50.49"E
Name NAVAID, Frequency, Identification or Call Sign Geographical Coordinates	

FIR SKOPJE

ENROUTE CHART - ICAO

LOWER AIRSPACE < FL245

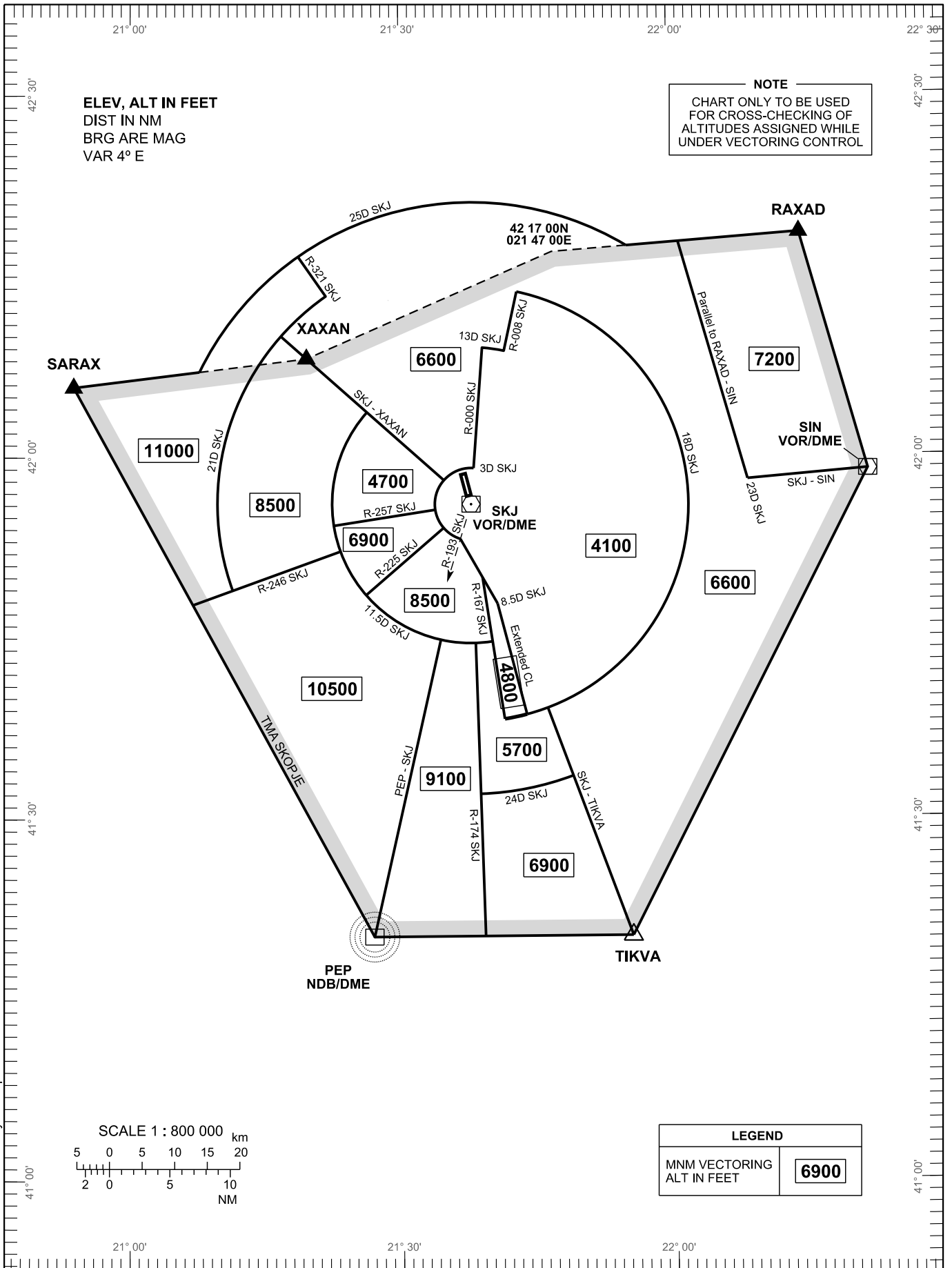


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ATC SURVEILLANCE MINIMUM AERODROME ELEV 781 FT
ALTITUDE CHART - ICAO TRANSITION ALT 11000 FT

APP 120.300

SKOPJE / Alexander the Great (LWSK)



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