

ENR-3.2.1 "L" ROUTES

1. NAVIGATION SPECIFICATION

RNAV routes in Republic of Kazakhstan require RNAV 5 capability. Supported sensors are VOR/DME, INS/IRS, GNSS or their combination.

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L26 (RNAV 5)						
▲ AKTOBE DVOR/ DME (AKB)	501548N 0571055E					
	086° 267°	44.1 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 120.9 MHZ {C}
△ OMITO	501033N 0581909E AKB 086.0° 44.1 NM (700 FT)					
	086° 268°	68.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
△ KESOT	500111N 0600343E AKB 088.0° 112.1 NM (700 FT)					
	088° 270°	96.5 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
▲ BEKOR (FIR BDRY)	494513N 0623050E ARK 247.0° 177.6 NM (1300 FT)					
	090° 271°	38.5 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ In case of possible VHF radio communication failure at FL120– FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kostanay Sector” on frequencies 4680 kHz and 4815 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ TIBDA	493800N 0632900E ARK 242.0° 143.1 NM (1300 FT)					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	096° 278°	60.3 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kostanay Sector” on frequencies 4680 kHz and 4815 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ ARBIM	492045N 0645739E ARK 223.0° 99.1 NM (1300 FT)					
	098° 279°	79.9 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ UMDEM	485611N 0665322E DZG 325.0° 80.9 NM (1300 FT)					
	099° 280°	22.0 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ GORIM	484905N 0672456E DZG 339.0° 67.3 NM (1300 FT)					
	100° 281°	38.2 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ AKITU	483624N 0681921E DZG 014.0° 57.7 NM (1300 FT)					
	101° 281°	12.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ MAKUT	483217N 0683632E DZG 026.0° 59.7 NM (1300 FT)					
	101° 282°	33.9 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ DITKI	482034N 0692417E DZG 052.0° 76.0 NM (1300 FT)					

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	102° 283°	60.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
▲ KUROL	475900N 0704800E DZG 075.0° 123.8 NM (1300 FT)					
	101° 282°	44.2 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Zhezkazgan Tower” on frequencies 4850 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
▲ UNABO (FIR BDRY)	474352N 0714935E KRG 198.0° 132.6 NM (1800 FT)					
	102° 284°	61.9 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 125.5 MHZ {C}
▲ TOGDI	472143N 0731457E BLH 284.0° 76.7 NM (1400 FT)					
	104° 285°	33.4 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 125.5 MHZ {C}
△ NEPLA	470920N 0740031E BLH 285.0° 43.2 NM (1400 FT)					
	105° 286°	43.3 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 125.5 MHZ BALKHASH TOWER 128.0 MHZ {C}
▲ BALKHASH DVOR/DME (BLH)	465259N 0745902E					
	101° 282°	61.4 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 125.5 MHZ BALKHASH TOWER 128.0 MHZ {C}
△ SUBAN	463355N 0762353E BLH 102.0° 61.4 NM (1400 FT)					

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	102° 282°	14.4 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 125.5 MHZ {C}
▲ NIPAL	462919N 0764342E BLH 102.0° 75.8 NM (1400 FT)					
	102° 283°	39.5 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ {C}
▲ GENGA	461625N 0773739E TDK 328.0° 77.8 NM (2000 FT)					
	098° 280°	94.7 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ {C}
▲ RIKPI	455225N 0794910E TDK 047.0° 74.6 NM (2000 FT)					
	100° 280°	14.6 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ {C}
▲ ALILA	454830N 0800916E TDK 055.0° 84.1 NM (2000 FT)					
	100° 281°	37.8 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ {C}
▲ OGADO	453804N 0810107E JRK 024.0° 95.7 NM (2600 FT)					
	102° 283°	70.7 NM	FL 510 FL 160	Odd	Even	ALMATY ACC 133.1 MHZ {C}
▲ BAMAN (FIR BDRY)	451700N 0823700E JRK 057.0° 130.2 NM (2600 FT)					For continuation, see AIP China

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L51 (RNAV 5)						
▲ ATYRAU DVOR/ DME (ATR)	470838N 0514805E					

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	
	072° 253°	43.3 NM	FL 510 FL 120	Odd	Even
△ BASPU	471514N 0525046E ATR 073.0° 43.2 NM (0 FT)				AKTOBE ACC 130.9 MHZ ATYRAU TOWER 118.1 MHZ {C}
	073° 254°	56.6 NM	FL 510 FL 120	Odd	Even
△ EPOLI	472234N 0541316E ATR 074.0° 99.9 NM (0 FT)				AKTOBE ACC 130.9 MHZ {C}
	073° 253°	31.8 NM	FL 510 FL 120	Odd	Even
△ LANIN	472659N 0545937E BNU 349.0° 126.8 NM (0 FT)				
	074° 255°	26.7 NM	FL 510 FL 120	Odd	Even
					AKTOBE ACC 130.9 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Atyrau Sector” on frequencies 4688 kHz and 4830 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ ODPUT	473004N 0553846E BNU 001.0° 131.5 NM (0 FT)				

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	075° 255°	29.2 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Atyrau Sector” on frequencies 4688 kHz and 4830 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
▲ LUKET	473310N 0562135E BNU 013.0° 142.4 NM (0 FT)					
	075° 256°	51.9 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
△ UDATO	473801N 0573755E AKB 163.0° 158.9 NM (700 FT)					
	076° 257°	64.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
▲ RUGUS	474250N 0591219E ARL 289.0° 112.1 NM (300 FT)					
	078° 259°	37.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119 MHZ {C}
△ ARSAN	474436N 0600738E ARL 303.0° 82.1 NM (300 FT)					
	078° 260°	117.1 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119 MHZ {C}
△ ABIGU	474742N 0630108E ARL 036.0° 81.6 NM (300 FT)					
	081° 261°	30.6 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119 MHZ {C}
▲ ULRIP (FIR BDRY)	474743N 0634635E ARL 049.0° 105.6 NM (300 FT)					

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	081° 262°	45.8 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Zhezkazgan Tower” on frequencies 4850 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ SUBOL	474716N 0645433E DZG 262.0° 115.5 NM (1300 FT)					
	082° 264°	72.3 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ ARMIK	474512N 0664137E DZG 263.0° 43.3 NM (1300 FT)					
	084° 265°	43.3 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
▲ ZHEZKAZGAN DVOR/DME (DZG)	474317N 0674542E					
	052° 232°	43.0 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
△ ADRIK	480432N 0684119E DZG 051.8° 43.0 NM (1300 FT)					
	052° 232°	32.9 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ DITKI	482034N 0692417E DZG 052.0° 76.0 NM (1300 FT)					
	053° 233°	48.7 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
▲ INTAL	484345N 0702839E DZG 053.0° 124.6 NM (1300 FT)					

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	053° 235°	80.9 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 124.1 MHZ {C}
△ DOZIN	492040N 0721800E KRG 235.0° 46.8 NM (1800 FT)					
	055° 236°	46.8 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 124.1 MHZ KARAGANDA TOWER 122.0 MHZ {C}
▲ KARAGANDA DVOR/DME (KRG)	494114N 0732226E					
	033° 213°	44.6 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 124.1 MHZ KARAGANDA TOWER 122.0 MHZ {C}
△ UNLOM	501425N 0740834E KRG 033.2° 44.6 NM (1800 FT)					
	033° 213°	14.4 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 124.1 MHZ {C}
▲ KANZI	502504N 0742336E KRG 034.0° 59.0 NM (1800 FT)					
	033° 214°	71.7 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ {C}
△ ROHIL	511738N 0754034E PVL 215.6° 76.3 NM (500 FT)					
	034° 215°	76.3 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ PAVLODAR TOWER 119.8 MHZ {C}
▲ PAVLODAR DVOR/DME (PVL)	521235N 0770542E					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L86 (RNAV 5)						

Route designator		[Route Usage Notes]							
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks		
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit		FL series		Controlling unit {Airspace class} Remarks		
					↓	↑			
▲ MIMRI	433808N 0634822E KZO 222.0° 99.0 NM (500 FT)								
	017° 197°	38.4 NM	FL 510 FL 120		Odd	Even	SHYMKENT ACC 127.3 MHZ {C}		
△ ERTUZ	441307N 0641019E KZO 238.0° 66.3 NM (500 FT)								
	017° 197°	52.6 NM	FL 510 FL 120		Odd	Even	SHYMKENT ACC 127.3 MHZ {C}		
△ AGMUR	450056N 0644106E KZO 289.0° 42.1 NM (500 FT)								
	018° 198°	114.8 NM	FL 510 FL 120		Odd	Even	SHYMKENT ACC 127.3 MHZ {C}		
▲ LUGER (FIR BDRY)	464426N 0655200E DZG 223.0° 97.3 NM (1300 FT)								
	018° 198°	93.5 NM	FL 510 FL 120		Odd	Even	ASTANA ACC 132.5 MHZ {C}		
△ BETIK	480807N 0665309E DZG 296.0° 43.2 NM (1300 FT)								
	018° 198°	46.1 NM	FL 510 FL 120		Odd	Even	ASTANA ACC 132.5 MHZ {C}		
△ GORIM	484905N 0672456E DZG 339.0° 67.3 NM (1300 FT)								
	019° 199°	66.2 NM	FL 510 FL 120		Odd	Even	ASTANA ACC 132.5 MHZ {C}		
▲ AKELI	494707N 0681322E ARK 115.0° 56.4 NM (1300 FT)								
	019° 199°	13.8 NM	FL 510 FL 120		Odd	Even	ASTANA ACC 133.1 MHZ {C}		
▲ ABULA	495910N 0682343E ARK 101.0° 56.6 NM (1300 FT)								
	019° 199°	34.4 NM	FL 510 FL 120		Odd	Even	ASTANA ACC 124.1 MHZ {C}		

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	
▲ ABENU	502909N 0684952E ARK 072.0° 70.2 NM (1300 FT)				
	019° 201°	256.8 NM	FL 510 FL 120	Odd	Even
▲ DAKIN (FIR BDRY)	540930N 0722418E KTU 053.0° 110.5 NM (900 FT)				ASTANA ACC 132.8 MHZ {C}

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L135 (RNAV 5)						
▲ MAMIR (FIR BDRY)		425438N 0763642E ATA 211.8° 34.8 NM (2200 FT)				
	032° 212°	22.0 NM	FL 510 FL 200	Odd	Even	ALMATY ACC 131.4 MHZ {C}
△ LAKEL		431216N 0765439E ATA 211.7° 12.8 NM (2200 FT)				
	031° 211°	12.8 NM	FL 510 FL 190	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ IZIMA		432236N 0770503E ATA 332.2° 0.1 NM (2200 FT)				
	051° 231°	22.3 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ TIRBA		433456N 0773031E ATA 050.8° 22.3 NM (2200 FT)				
	018° 198°	34.0 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ GAKMA	440610N 0774907E ATA 030.8° 54.0 NM (2200 FT)					
	018° 198°	11.3 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ DESOK	441629N 0775521E TDK 198.0° 54.4 NM (2000 FT)					
	018° 198°	21.4 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ {C}
△ IDILI	443608N 0780716E TDK 198.0° 33.0 NM (2000 FT)					
	018° 198°	33.0 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ TALDYKORGAN TOWER 127.3 MHZ {C}
▲ TALDYKORGAN DVOR/DME (TDK)	450622N 0782548E					
	021° 201°	35.2 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ TALDYKORGAN TOWER 127.3 MHZ {C}
△ FULSA	453758N 0784751E TDK 021.0° 35.2 NM (2000 FT)					
	021° 201°	45.7 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ {C}
▲ MAKEK	461854N 0791700E TDK 021.0° 80.9 NM (2000 FT)					
	020° 200°	54.8 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
△ GOMAL	470809N 0795150E AGZ 200.0° 53.4 NM (2200 FT)					
	020° 201°	53.4 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
▲ AYAGUZ VOR/ DME (AGZ)	475552N 0802659E					
	026° 206°	106.8 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
△ LASNA	492602N 081531E UKM 207.0° 43.3 NM (1000 FT)				
	027° 208°	43.3 NM	FL 510 FL 120	Odd Even	ALMATY ACC 132.1 MHZ UST-KAMENOGORSK TOWER 130.1 MHZ {C}
▲ UST-KAMENOGORSK DVOR/DME (UKM)	500158N 0823031E				
	029° 209°	43.0 NM	FL 510 FL 120	Odd Even	ALMATY ACC 132.1 MHZ UST-KAMENOGORSK TOWER 130.1 MHZ {C}
△ BANOVS	503704N 0830918E UKM 029.0° 43.0 NM (1000 FT)				
	030° 210°	25.6 NM	FL 510 FL 120	Odd Even	ALMATY ACC 132.1 MHZ {C}
▲ BOKIS (FIR BDRY)	505736N 0833312E UKM 030.0° 68.6 NM (1000 FT)				For continuation, see AIP Russia

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
L138 (RNAV 5)					
▲ OKMUR (FIR BDRY)	424815N 0791158E JRK 197.0° 91.6 NM (2600 FT)				
	358° 178°	44.7 NM	FL 510 FL 120	Even Odd	ALMATY ACC 131.4 MHZ The use of this airspace segment by aircraft unable to reach the AMA (FL170) is permitted only under VMC and VFR during daytime. {C}
▲ BASPI	433257N 0791501E JRK 212.0° 51.0 NM (2600 FT)				

Route designator		[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit	FL series		Controlling unit {Airspace class} Remarks	
			Lower limit	↓	↑		
L139 (RNAV 5)	(2) Before, see AIP Uzbekistan						
▲ TULGA (FIR BDRY)	415347N 0701204E SMK 124.0° 44.3 NM (1400 FT)					Before, see AIP Uzbekistan	
	307° 127°	23.5 NM	FL 510 FL 160	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}	
△ ADESA	420940N 0694854E SMK 121.0° 20.9 NM (1400 FT)						
	302° 122°	20.9 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ SHYMKENT TOWER 125.9 MHZ {C}	
▲ SHYMKENT DVOR/DME (SMK)	422220N 0692631E						
	316° 135°	30.0 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ SHYMKENT TOWER 125.9 MHZ {C}	
△ RUSEK	424549N 0690116E SMK 316.0° 30.0 NM (1400 FT)						
	312° 132°	10.5 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ SHYMKENT TOWER 125.9 MHZ {C}	
▲ MAGOL	425338N 0685144E TRK 148.0° 28.7 NM (1000 FT)						
	312° 132°	32.7 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ TURKISTAN TOWER 131.3 MHZ {C}	
▲ GENDI	431800N 0682200E TRK 254.0° 9.4 NM (1000 FT)						
	300° 119°	24.3 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ TURKISTAN TOWER 131.3 MHZ {C}	
▲ KUDUG	433216N 0675457E TRK 287.0° 31.7 NM (1000 FT)						
	299° 119°	22.7 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ TURKISTAN TOWER 131.3 MHZ {C}	

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑		Controlling unit {Airspace class} Remarks
△ GIMRI	434530N 0672931E TRK 292.0° 54.1 NM (1000 FT)					
	299° 118°	56.3 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ GITIM	441752N 0662540E KZO 116.0° 44.1 NM (500 FT)					
	296° 116°	44.1 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}
▲ KYZYLORDA DVOR/DME (KZO)	444145N 0653349E					
	291° 110°	28.5 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}
△ BUDET	445507N 0645824E KZO 290.0° 28.5 NM (500 FT)					
	288° 108°	13.6 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}
△ AGMUR	450056N 0644106E KZO 289.0° 42.1 NM (500 FT)					
	288° 105°	118.6 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ INKUM	454952N 0620739E ARL 151.0° 63.3 NM (300 FT)					
	276° 096°	30.9 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ SANUR (FIR BDRY)	455717N 0612446E ARL 180.0° 53.0 NM (300 FT)					
	276° 094°	72.5 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ {C}
▲ ABDUN	461337N 0594316E ARL 236.0° 86.4 NM (300 FT)					
	274° 093°	40.7 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
△ NINAG	462208N 0584556E ARL 249.0° 121.4 NM (300 FT)				
	273° 092°	87.9 NM	FL 510 FL 120	Even Odd	AKTOBE ACC 119 MHZ {C}
▲ TISRA	463851N 0564100E BNU 032.0° 102.1 NM (0 FT)				
	272° 090°	58.4 NM	FL 510 FL 120	Even Odd	AKTOBE ACC 130.9 MHZ {C}
△ PEMOL	464841N 0551720E BNU 356.0° 88.6 NM (0 FT)				
	270° 090°	29.8 NM	FL 510 FL 120	Even Odd	AKTOBE ACC 130.9 MHZ {C}
△ RIKRI	465319N 0543423E BNU 338.0° 95.7 NM (0 FT)				
	270° 089°	30.9 NM	FL 510 FL 120	Even Odd	AKTOBE ACC 130.9 MHZ {C}
△ LEPSI	465750N 0534950E ATR 089.0° 83.9 NM (0 FT)				
	269° 089°	40.7 NM	FL 510 FL 120	Even Odd	AKTOBE ACC 130.9 MHZ {C}
△ GOGDI	470320N 0525055E ATR 088.0° 43.2 NM (0 FT)				
	269° 088°	43.3 NM	FL 510 FL 120	Even Odd	AKTOBE ACC 130.9 MHZ ATYRAU TOWER 118.1 MHZ {C}
▲ ATYRAU DVOR/ DME (ATR)	470838N 0514805E				

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
L143 (RNAV 5)					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑		Controlling unit {Airspace class} Remarks
▲ SULET (FIR BDRY)	430602N 0743503E ATA 257.2° 110.9 NM (2200 FT)					Before, see AIP Kyrgyzstan
	050° 230°	28.6 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ {C}
▲ UML0D	432218N 0750715E ATA 265.4° 85.9 NM (2200 FT)					
	043° 223°	5.8 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ {C}
△ BINRI	432607N 0751309E ATA 268.1° 81.7 NM (2200 FT)					
	043° 223°	18.1 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ {C}
△ TIPSA	433809N 0753149E ATA 278.4° 69.7 NM (2200 FT)					
	054° 235°	23.8 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ REGMU	435005N 0760012E ATA 295.6° 54.6 NM (2200 FT)					
	055° 235°	16.6 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
▲ ADABA	435820N 0762009E ATA 312.8° 48.5 NM (2200 FT)					
	016° 196°	23.7 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ ALMATY APPROACH 124.8 MHZ {C}
▲ ETEDA	442024N 0763206E ATA 332.6° 62.6 NM (2200 FT)					
	016° 196°	89.3 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ {C}
△ AKIRA	454323N 0771829E TDK 302.0° 60.2 NM (2000 FT)					

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit	FL series		Controlling unit {Airspace class} Remarks
			Lower limit	↓	↑	
	016° 196°	35.6 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ {C}
▲ GENGA	461625N 0773739E TDK 328.0° 77.8 NM (2000 FT)					
	016° 196°	24.9 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ {C}
▲ AGNAT	463927N 0775115E TDK 340.0° 96.2 NM (2000 FT)					
	016° 196°	59.3 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
△ IBDAS	473412N 0782432E AGZ 248.0° 85.4 NM (2200 FT)					
	016° 196°	51.2 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
△ OSNER	482119N 0785409E AGZ 286.0° 67.2 NM (2200 FT)					
	016° 197°	85.1 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
△ UVTOK	493924N 0794524E SEM 197.0° 45.7 NM (700 FT)					
	017° 197°	45.6 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ SEMEY TOWER 128.0 MHZ {C}
▲ SOMIP	502106N 0801402E SEM 281.0° 0.4 NM (700 FT)					
	019° 199°	58.8 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ SEMEY TOWER 128.0 MHZ {C}
▲ ELSUT (FIR BDRY)	511342N 0805506E SEM 018.0° 58.7 NM (700 FT)					For continuation, see AIP Russia

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
L143 (RNAV 5)					
▲ UVASU	404236N 0681306E SMK 203.0° 113.9 NM (1400 FT)				Before, see AIP Uzbekistan
	068° 248°	16.2 NM	FL 510 8000 FT ALT	Odd Even	TASHKENT ACC {C}
▲ RAVOB	404718N 0683330E SMK 196.0° 103.0 NM (1400 FT)				For continuation, see AIP Uzbekistan

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
L145 (RNAV 5)	<small>(1) Before, see AIP Kyrgyzstan (2) For continuation, see AIP Russia</small>				
▲ DEMAS (FIR BDRY)	424732N 0712008E TAR 147.0° 5.3 NM (2200 FT)				Before, see AIP Kyrgyzstan
	327° 147°	5.3 NM	FL 510 FL 120	Even Odd	SHYMKENT ACC 132.7 MHZ TARAZ APPROACH 122.1 MHZ {C}
▲ TARAZ DVOR/ DME (TAR)	425214N 0711654E				
	329° 148°	42.9 NM	FL 510 FL 120	Even Odd	SHYMKENT ACC 132.7 MHZ TARAZ APPROACH 122.1 MHZ {C}
▲ ARBOL	433055N 0705137E TAR 329.0° 42.9 NM (2200 FT)				
	328° 147°	44.9 NM	FL 510 FL 120	Even Odd	SHYMKENT ACC 132.7 MHZ {C}
△ GAMBU	441106N 0702401E TAR 328.0° 87.7 NM (2200 FT)				
	327° 146°	7.4 NM	FL 510 FL 120	Even Odd	SHYMKENT ACC 132.7 MHZ {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ INLIG	441743N 0701919E TAR 328.0° 94.9 NM (2200 FT)					
	326° 145°	75.0 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Approach” on frequencies 4744 kHz. - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
▲ MIRGA (FIR BDRY)	452416N 0693051E TRK 012.0° 131.1 NM (1000 FT)					
	325° 145°	42.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Zhezkazgan Tower” on frequencies 4850 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ OBAMA	460212N 0690233E DZG 144.0° 114.0 NM (1300 FT)					
	326° 144°	70.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ ASLIK	470509N 0681542E DZG 143.0° 43.3 NM (1300 FT)					
	324° 143°	43.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
▲ ZHEZKAZGAN DVOR/DME (DZG)	474317N 0674542E					

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	327° 146°	43.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
△ ADOKA	482224N 0671842E DZG 326.0° 43.1 NM (1300 FT)					
	325° 144°	37.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ UMDEM	485611N 0665322E DZG 325.0° 80.9 NM (1300 FT)					
	327° 146°	53.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ SUKUR	494431N 0661957E ARK 207.0° 43.7 NM (1300 FT)					
	323° 143°	27.4 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
▲ BULOG	500854N 0660036E ARK 245.0° 40.3 NM (1300 FT)					
	324° 144°	14.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
▲ KUSOT	502128N 0655110E ARK 262.0° 45.0 NM (1300 FT)					
	324° 142°	92.4 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ KUSUM	514420N 0644639E KST 141.0° 97.8 NM (600 FT)					
	323° 142°	34.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ ARDIK	521459N 0642204E KST 140.0° 63.5 NM (600 FT)					
	321° 140°	63.5 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}
▲ KOSTANAY DVOR/DME (KST)	531113N 0633346E					

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	
	318° 137°	63.0 NM	FL 510 FL 120	Even	Odd
▲ LANOR (FIR BDRY)	540536N 0624042E KST 318.0° 63.0 NM (600 FT)				ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C} For continuation, see AIP Russia

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L147 (RNAV 5)	(2) Before, see AIP Kyrgyzstan					
▲ RODAM (FIR BDRY)	431348N 0741934E ATA 261.7° 121.2 NM (2200 FT)					Before, see AIP Kyrgyzstan
	313° 132°	27.5 NM	FL 510 FL 70	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
▲ BASAN	433420N 0735429E TAR 065.0° 122.7 NM (2200 FT)					
	311° 131°	10.2 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
▲ TOMGO	434146N 0734454E TAR 060.0° 118.9 NM (2200 FT)					
	301° 120°	41.9 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
△ INDAG	440635N 0725812E TAR 038.0° 104.8 NM (2200 FT)					
	300° 120°	19.7 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
△ RITMU	441806N 0723603E TAR 028.0° 103.3 NM (2200 FT)					
	300° 118°	98.8 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑		Controlling unit {Airspace class} Remarks
▲ PABRI (FIR BDRY)	451455N 0704239E TAR 344.0° 144.8 NM (2200 FT)					
	298° 116°	84.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Zhezkazgan Tower” on frequencies 4850 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ OBAMA	460212N 0690233E DZG 144.0° 114.0 NM (1300 FT)					
	296° 115°	56.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ ELSEB	463234N 0675439E DZG 166.0° 71.0 NM (1300 FT)					
	294° 114°	11.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ TUTUL	463825N 0674057E DZG 174.0° 65.0 NM (1300 FT)					
	295° 114°	27.4 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ ATRUS	465302N 0670715E DZG 199.0° 56.7 NM (1300 FT)					
	293° 113°	7.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ GISIR	465704N 0665732E DZG 206.0° 56.7 NM (1300 FT)					
	294° 112°	53.5 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑		Controlling unit {Airspace class} Remarks
△ TIROK	472456N 0655037E DZG 247.0° 80.1 NM (1300 FT)					
	292° 111°	44.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ SUBOL	474716N 0645433E DZG 262.0° 115.5 NM (1300 FT)					
	291° 109°	102.6 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Zhezkazgan Tower” on frequencies 4850 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
▲ GEDSA (FIR BDRY)	483738N 0624054E ARL 013.0° 116.4 NM (300 FT)					
	287° 105°	84.2 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
△ MANAD	491421N 0604601E ARL 338.0° 148.9 NM (300 FT)					
	285° 104°	42.9 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
△ AGATU	493220N 0594622E AKB 104.0° 109.5 NM (700 FT)					
	284° 104°	24.6 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
△ ENETO	494223N 0591154E AKB 103.0° 84.9 NM (700 FT)					
	284° 103°	43.1 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	
△ RIGDO	495937N 0581049E AKB 102.0° 41.8 NM (700 FT)				
	283° 102°	41.8 NM	FL 510 FL 120	Even	Odd
▲ AKTOBE DVOR/ DME (AKB)	501548N 0571055E				AKTOBE ACC 129.6 MHZ AKTOBE TOWER 120.9 MHZ {C}

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L162 (RNAV 5)						
▲ ODIVA (FIR BDRY)	423530N 0640848E KZO 198.0° 140.5 NM (500 FT)					Before, see AIP Uzbekistan
	330° 149°	60.0 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kyzylorda Tower” on frequencies 5335 kHz and 6672 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ NITNA	433032N 0633601E KZO 222.0° 110.8 NM (500 FT)					

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	329° 149°	10.0 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kyzylorda Tower” on frequencies 5335 kHz and 6672 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
▲ DIDOP	433941N 0633027E KZO 227.0° 108.3 NM (500 FT)					
	329° 149°	17.3 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ TIPEN	435532N 0632045E KZO 236.0° 106.1 NM (500 FT)					
	329° 149°	18.6 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ ZURGO	441233N 0631012E KZO 248.0° 106.9 NM (500 FT)					
	329° 148°	64.1 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ TUKNA	451058N 0623308E ARL 150.0° 106.1 NM (300 FT)					
	327° 147°	42.8 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ INKUM	454952N 0620739E ARL 151.0° 63.3 NM (300 FT)					
	329° 149°	27.3 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ NIRAN (FIR BDRY)	461504N 0615245E ARL 154.0° 36.1 NM (300 FT)					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑		Controlling unit {Airspace class} Remarks
	329° 148°	37.1 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ {C}
△ UZLOR	464915N 0613205E ARL 257.0° 3.4 NM (300 FT)					
	328° 147°	86.3 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ {C}
▲ ERUTA	480837N 0604210E ARL 326.0° 87.5 NM (300 FT)					
	327° 146°	91.5 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
△ AGATU	493220N 0594622E AKB 104.0° 109.5 NM (700 FT)					
	326° 144°	76.3 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
▲ URUSU (FIR BDRY)	504142N 0585724E AKB 059.0° 72.8 NM (700 FT)					For continuation, see AIP Russia

Route designator		[Route Usage Notes]					
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks	
				↓	↑		
L163 (RNAV 5)		(1) Before, see AIP Uzbekistan (2) For continuation, see AIP Russia					
▲ RODRO		411433N 0690034E SMK 190.0° 70.5 NM (1400 FT)					Before, see AIP Uzbekistan
	306° 126°	12.7 NM	FL 510 7000 FT ALT	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}	
▲ DODUR (FIR BDRY)		412300N 0684800E SMK 200.0° 65.9 NM (1400 FT)					
	320° 139°	47.4 NM	FL 510 7000 FT ALT	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}	

Route designator		[Route Usage Notes]							
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks		
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit		FL series		Controlling unit {Airspace class} Remarks		
					↓	↑			
▲ MIKNO	420200N 0681200E SMK 243.0° 59.0 NM (1400 FT)								
	307° 125°	47.6 NM	FL 510 FL 120		Even	Odd	SHYMKENT ACC 132.7 MHZ {C}		
△ ROSIM	423415N 0672453E TRK 222.0° 68.4 NM (1000 FT)								
	306° 126°	38.0 NM	FL 510 FL 120		Even	Odd	SHYMKENT ACC 132.7 MHZ {C}		
▲ PAVEL	425947N 0664642E TRK 249.0° 81.5 NM (1000 FT)								
	306° 125°	18.9 NM	FL 510 FL 120		Even	Odd	SHYMKENT ACC 132.7 MHZ {C}		
▲ RILOK	431224N 0662729E TRK 258.0° 93.3 NM (1000 FT)								
	305° 124°	94.8 NM	FL 510 FL 120		Even	Odd	SHYMKENT ACC 127.3 MHZ {C}		
△ DILNA	441450N 0644911E KZO 222.0° 41.8 NM (500 FT)								
	304° 123°	11.6 NM	FL 510 FL 120		Even	Odd	SHYMKENT ACC 127.3 MHZ {C}		
△ BADAS	442221N 0643656E KZO 237.0° 45.1 NM (500 FT)								
	303° 123°	5.3 NM	FL 510 FL 120		Even	Odd	SHYMKENT ACC 127.3 MHZ {C}		
△ ADREM	442548N 0643118E KZO 243.0° 47.5 NM (500 FT)								
	303° 122°	57.2 NM	FL 510 FL 120		Even	Odd	SHYMKENT ACC 127.3 MHZ {C}		
▲ UNITO	450238N 0632952E KZO 275.0° 90.6 NM (500 FT)								
	302° 120°	74.7 NM	FL 510 FL 120		Even	Odd	SHYMKENT ACC 127.3 MHZ {C}		

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ INKUM	454952N 0620739E ARL 151.0° 63.3 NM (300 FT)					
	306° 126°	27.6 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ ADUMI (FIR BDRY)	460903N 0613915E ARL 169.0° 40.5 NM (300 FT)					
	306° 123°	137.6 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ {C}
▲ RUGUS	474250N 0591219E ARL 289.0° 112.1 NM (300 FT)					
	303° 121°	93.0 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
△ ERKIS	484421N 0572756E AKB 162.0° 92.0 NM (700 FT)					
	301° 118°	147.4 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
▲ SIVKO	501827N 0543349E AKB 260.0° 100.8 NM (700 FT)					
	300° 117°	130.4 NM	FL 510 FL 210	Even	Odd	AKTOBE ACC 131.4 MHZ {C}
▲ BEKAS (FIR BDRY)	514029N 0515327E URL 011.0° 34.2 NM (200 FT)					For continuation, see AIP Russia

Route designator		[Route Usage Notes]					
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks	
				↓	↑		
L165 (RNAV 5)		<small>(1) Before, see AIP Uzbekistan (2) For continuation, see AIP Russia</small>					
▲ AKALI (FIR BDRY)		440829N 0611937E ARL 175.0° 161.5 NM (300 FT)				Before, see AIP Uzbekistan	

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	011° 191°	72.0 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kyzylorda Tower” on frequencies 5335 kHz and 6672 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ OLINA	451645N 0615140E ARL 165.0° 93.4 NM (300 FT)					
	011° 190°	35.0 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}
▲ INKUM	454952N 0620739E ARL 151.0° 63.3 NM (300 FT)					
	359° 179°	33.4 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ RESBA (FIR BDRY)	462255N 0621359E ARL 128.0° 36.8 NM (300 FT)					
	359° 178°	136.0 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ {C}
▲ GEDSA (FIR BDRY)	483738N 0624054E ARL 013.0° 116.4 NM (300 FT)					
	357° 176°	86.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
▲ GEMBO	500256N 0625600E ARK 252.0° 158.5 NM (1300 FT)					
	356° 176°	20.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ EMBEK	502333N 0625947E ARK 263.0° 154.8 NM (1300 FT)					

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	356° 176°	44.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kostanay Sector” on frequencies 4680 kHz and 4815 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ GUMGA	510752N 0630806E KST 175.0° 124.7 NM (600 FT)					
	356° 175°	65.9 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ BUDER	521310N 0632052E KST 176.0° 58.6 NM (600 FT)					
	356° 176°	58.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}
▲ KOSTANAY DVOR/DME (KST)	531113N 0633346E					
	008° 189°	73.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}
▲ NELTI (FIR BDRY)	541942N 0641630E KST 008.0° 73.1 NM (600 FT)					For continuation, see AIP Russia

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L170 (RNAV 5)						

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
▲ VAMUK (FIR BDRY)	403400.0N 0683430.0E SMK 194.0° 115.1 NM (1400 FT)				Before, see AIP Uzbekistan
	014° 194°	8.8 NM	FL 510 4000 FT ALT	Odd Even	TASHKENT ACC {C}
▲ AKAZU (FIR BDRY)	404218N 0683815E SMK 194.0° 106.4 NM (1400 FT)				For continuation, see AIP Uzbekistan

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
L728 (RNAV 5)					
▲ OGTOL (FIR BDRY)	424905N 0733002E TAR 087.0° 98.0 NM (2200 FT)				
	272° 091°	12.2 NM	FL 510 FL 120	Even Odd	SHYMKENT ACC 132.7 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Approach” on frequencies 4744 kHz. - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ PILEL	425035N 0731336E TAR 085.0° 85.9 NM (2200 FT)				
	271° 090°	62.0 NM	FL 510 FL 120	Even Odd	SHYMKENT ACC 132.7 MHZ {C}
△ GERPU	425739N 0714951E TAR 072.0° 24.8 NM (2200 FT)				

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑		Controlling unit {Airspace class} Remarks
	303° 122°	54.0 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ TARAZ APPROACH 122.1 MHZ {C}
▲ ARBOL	433055N 0705137E TAR 329.0° 42.9 NM (2200 FT)					
	296° 114°	98.8 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
▲ TUROK	442214N 0685447E TRK 007.0° 64.3 NM (1000 FT)					
	312° 129°	191.6 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ LUGER (FIR BDRY)	464426N 0655200E DZG 223.0° 97.3 NM (1300 FT)					
	304° 123°	47.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ BAGED	471628N 0650016E DZG 249° 115.2 NM (1300 FT)					
	303° 121°	124.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ In case of possible VHF radio communication failure at FL120– FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Zhezkazgan Tower” on frequencies 4850 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
▲ GEDSA (FIR BDRY)	483738N 0624054E ARL 013.0° 116.4 NM (300 FT)					
	281° 097°	200.9 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
△ ODILA	494259N 0575122E AKB 131.0° 41.9 NM (700 FT)					

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	
	276° 093°	132.3 NM	FL 510 FL 160	Even	Odd
▲ SIVKO	501827N 0543349E AKB 260.0° 100.8 NM (700 FT)				AKTOBE ACC 129.6 MHZ {C}

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit	FL series		Controlling unit {Airspace class} Remarks
			Lower limit	↓	↑	
L736 (RNAV 5)						
▲ AKTAU DVOR/ DME (AKT)	435220N 0510352E					
	350° ◡	112.9 NM	FL 510 FL 220	Even		AKTOBE ACC 134.3 MHZ {C}
▲ AMOHA	454502N 0505523E ATR 195.0° 91.2 NM (0 FT)					
	348° ◡	66.8 NM	FL 510 FL 220	Even		AKTOBE ACC 130.9 MHZ {C}
△ TUGLA	465142N 0505006E ATR 237.0° 43.2 NM (0 FT)					
	349° ◡	132.1 NM	FL 510 FL 220	Even		AKTOBE ACC 130.9 MHZ {C}
▲ NAGAZ	490336N 0504220E ATR 330.0° 123.2 NM (0 FT)					
	348° ◡	146.1 NM	FL 510 FL 220	Even		AKTOBE ACC 131.4 MHZ {C}
▲ ARISA (FIR BDRY)	512924N 0503254E URL 288.0° 42.7 NM (200 FT)					

Route designator		[Route Usage Notes]					
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks	
				↓	↑		
L855 (RNAV 5)							
△ TIPSA	433809N 0753149E ATA 278.4° 69.7 NM (2200 FT)						
	278° 097°	54.4 NM	FL 510 FL 150	Even	Odd	ALMATY ACC 131.4 MHZ {C}	
▲ ELENU (FIR BDRY)	435017N 0741838E ATA 278.8° 124.1 NM (2200 FT)						
	270° 087°	105.8 NM	FL 510 FL 150	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}	
△ RISAS	435854N 0715247E TAR 016.0° 71.6 NM (2200 FT)						
	275° 094°	39.4 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}	
△ KUGIR	440625N 0705906E TAR 344.0° 75.3 NM (2200 FT)						
	274° 094°	25.7 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}	
△ GAMBU	441106N 0702401E TAR 328.0° 87.7 NM (2200 FT)						
	274° 093°	65.1 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}	
▲ TUROK	442214N 0685447E TRK 007.0° 64.3 NM (1000 FT)						
	273° 092°	30.6 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}	
△ REMOL	442704N 0681238E TRK 340.0° 69.4 NM (1000 FT)						
	272° 091°	29.1 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}	
△ LUKUR	443112N 0673226E TRK 321.0° 84.6 NM (1000 FT)						

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit	FL series		Controlling unit {Airspace class} Remarks
			Lower limit	↓	↑	
	271° 091°	40.8 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ DIKAM	443650N 066355E KZO 089.0° 44.6 NM (500 FT)					
	270° 089°	44.6 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}
▲ KYZYLORDA DVOR/DME (KZO)	444145N 0653349E					
	238° 057°	45.1 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}
△ BADAS	442221N 064365E KZO 237.0° 45.1 NM (500 FT)					
	237° 057°	21.2 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ ERTUZ	441307N 0641019E KZO 238.0° 66.3 NM (500 FT)					
	237° 056°	39.8 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ TIPEN	435532N 0632045E KZO 236.0° 106.1 NM (500 FT)					
	236° 056°	25.0 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ ADAKA	434416N 0624955E KZO 236.0° 131.1 NM (500 FT)					

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	236° 056°	36.9 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kyzylorda Tower” on frequencies 5335 kHz and 6672 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
▲ TIGTA (FIR BDRY)	432728N 062044E KZO 235.0° 168.0 NM (500 FT)					For continuation, see AIP Uzbekistan

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L864 (RNAV 5)						
▲ ITAKA (FIR BDRY)	435224N 0493000E AKT 262.0° 67.9 NM (100 FT)					
	020°	60.7 NM	FL 510 FL 210	Odd		AKTOBE ACC 134.3 MHZ {C}
△ ATNUR	444559N 0500948E AKT 316.0° 66.2 NM (100 FT)					
	349°	65.3 NM	FL 510 FL 220	Even		AKTOBE ACC 134.3 MHZ {C}
▲ URABU	455108N 0500407E ATR 214.4° 105.7 NM (0 FT)					
	348°	45.5 NM	FL 510 FL 220	Even		AKTOBE ACC 130.9 MHZ {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
△ DIMPA	463633N 0495959E ATR 238.2° 80.8 NM (0 FT)				
	347°	149.0 NM	FL 510 FL 220	Even	AKTOBE ACC 130.9 MHz {C}
▲ TOZIS	490511N 0494538E URL 198.7° 141.7 NM (200 FT)				
	346°	121.9 NM	FL 510 FL 220	Even	AKTOBE ACC 131.4 MHz {C}
▲ POMNI (FIR BDRY)	510638N 0493240E URL 258.0° 75.6 NM (200 FT)				

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
L985 (RNAV 5)					
▲ AKALI (FIR BDRY)	440829N 0611937E ARL 175.0° 161.5 NM (300 FT)				Before, see AIP Uzbekistan
	358° 178°	45.5 NM	FL 510 FL 120	Even Odd	SHYMKENT ACC 127.3 MHz In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kyzylorda Tower” on frequencies 5335 kHz and 6672 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ LATNU	445345N 0612553E ARL 175.0° 116.1 NM (300 FT)				

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	352° 171°	63.5 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
SANUR ▲ (FIR BDRY)	455717N 0612446E ARL 180.0° 53.0 NM (300 FT)					
	357° 177°	52.2 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ {C}
△ UZLOR	464915N 0613205E ARL 257.0° 3.4 NM (300 FT)					
	357° 176°	96.2 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ {C}
ADLIK ▲	482457N 0614611E ARL 355.0° 95.7 NM (300 FT)					
	354° 173°	135.9 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
RAVNI ▲ (FIR BDRY)	504030N 0615807E KST 188.0° 162.1 NM (600 FT)					
	356° 175°	158.2 NM	FL 510 FL 210	Even	Odd	ASTANA ACC 133.1 MHZ {C}
LODEZ △	531715N 0623004E KST 268.0° 38.7 NM (600 FT)					
	355° 175°	48.8 NM	FL 510 FL 210	Even	Odd	ASTANA ACC 133.1 MHZ {C}
LANOR ▲ (FIR BDRY)	540536N 0624042E KST 318.0° 63.0 NM (600 FT)					For continuation, see AIP Russia

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
↓				↑		
L988 (RNAV 5)	<small>(1) Below, see AIP Russia (2) For continuation, see AIP Russia</small>					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ OBATA (FIR BDRY)	462130N 0491148E ATR 236.0° 117.4 NM (0 FT)					Before, see AIP Russia
	057° 237°	36.5 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
△ DIMPA	463633N 0495959E ATR 238.2° 80.8 NM (0 FT)					
	057° 238°	37.7 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
△ TUGLA	465142N 0505006E ATR 237.0° 43.2 NM (0 FT)					
	058° 239°	43.2 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ ATYRAU TOWER 118.1 MHZ {C}
▲ ATYRAU DVOR/ DME (ATR)	470838N 0514805E					
	059° 239°	43.2 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ ATYRAU TOWER 118.1 MHZ {C}
△ GISTO	472457N 0524654E ATR 059.0° 43.2 NM (0 FT)					
	059° 240°	86.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
△ KODUM	475556N 0544537E ATR 061.0° 129.2 NM (0 FT)					
	048° 229°	42.8 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ In case of possible VHF radio communication failure at FL120– FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Atyrau Sector” on frequencies 4688 kHz and 4830 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	
▲ ALABA	481845N 0553938E AKB 196.0° 131.5 NM (700 FT)				
	060° 241°	76.4 NM	FL 510 FL 120	Odd	Even
AKTOBE ACC 129.6 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Ambarchik” on frequencies 4656 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}					
△ ERKIS	484421N 0572756E AKB 162.0° 92.0 NM (700 FT)				
	061° 245°	207.6 NM	FL 510 FL 120	Odd	Even
AKTOBE ACC 129.6 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Ambarchik” on frequencies 4656 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}					
▲ BEKOR (FIR BDRY)	494513N 0623050E ARK 247.0° 177.6 NM (1300 FT)				

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	065° 246°	87.4 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kostanay Sector” on frequencies 4680 kHz and 4815 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
▲ LAMGI	500657N 0644154E ARK 251.0° 90.3 NM (1300 FT)					
	068° 251°	134.3 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ {C}
▲ TUSEP	503136N 0680751E ARK 064.0° 44.4 NM (1300 FT)					
	066° 248°	74.0 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ {C}
△ OSROL	504818N 0700112E AST 248.0° 55.0 NM (1200 FT)					
	065° 245°	29.4 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}
△ APTUS	505558N 0704601E AST 251.0° 25.6 NM (1200 FT)					
	071° 251°	25.6 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}
▲ ASTANA DVOR/ DME (AST)	510006N 0712600E					
	065° 246°	58.9 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}
△ BOLSU	511507N 0725620E AST 066.0° 58.9 NM (1200 FT)					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑		Controlling unit {Airspace class} Remarks
	066° 248°	88.0 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ {C}
▲ ABELI	513524N 0751312E PVL 232.0° 79.0 NM (500 FT)					
	074° 255°	62.6 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ PAVLODAR TOWER 119.8 MHZ {C}
△ EKTUS	514225N 0765305E PVL 185.0° 31.2 NM (500 FT)					
	075° 256°	11.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ PAVLODAR TOWER 119.8 MHZ {C}
△ ABRAS	514331N 0771053E PVL 165.0° 29.3 NM (500 FT)					
	076° 256°	24.9 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ PAVLODAR TOWER 119.8 MHZ {C}
△ PIVAL	514549N 0775050E PVL 125.0° 38.7 NM (500 FT)					
	076° 258°	52.4 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ {C}
▲ LAGMO (FIR BDRY)	514954N 0791500E PVL 098.0° 83.0 NM (500 FT)					For continuation, see AIP Russia

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L992 (RNAV 5)						
▲ TIROM (FIR BDRY)		421434N 0531720E AKT 128.0° 138.3 NM (100 FT)				Before, see AIP Russia and CIS
	009° 189°	48.1 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	
△ ARNUS	430052N 0533509E AKT 107.0° 121.6 NM (100 FT)				
	009° 189°	30.5 NM	FL 510 FL 120	Odd	Even
△ BAPER	433011N 0534642E AKT 094.0° 120.2 NM (100 FT)				
	009° 189°	23.8 NM	FL 510 FL 120	Odd	Even
△ RINIT	435305N 0535549E BNU 202.0° 101.2 NM (0 FT)				
	009° 189°	59.9 NM	FL 510 FL 120	Odd	Even
▲ BODSI	445034N 0541914E BNU 220.0° 45.3 NM (0 FT)				
	011° 191°	44.1 NM	FL 510 FL 120	Odd	Even
△ AGNIM	453221N 0543918E BNU 293.0° 23.1 NM (0 FT)				
	011° 191°	18.1 NM	FL 510 FL 120	Odd	Even
▲ NESDO	454926N 0544739E BNU 326.0° 32.2 NM (0 FT)				
	011° 191°	62.7 NM	FL 510 FL 120	Odd	Even
△ PEMOL	464841N 0551720E BNU 356.0° 88.6 NM (0 FT)				
	011° 191°	43.9 NM	FL 510 FL 120	Odd	Even
△ ODPUT	473004N 0553846E BNU 001.0° 131.5 NM (0 FT)				

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation			Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	
	011° 190°	33.6 NM	FL 510 FL 120	Odd	Even
AKTOBE ACC 130.9 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Atyrau Sector” on frequencies 4688 kHz and 4830 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}					
▲ ABULU	480139N 0555532E AKB 189.0° 143.1 NM (700 FT)				
	010° 190°	32.4 NM	FL 510 FL 120	Odd	Even
AKTOBE ACC 129.6 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Ambarchik” on frequencies 4656 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}					
△ LOGTO	483204N 0561202E AKB 189.0° 110.7 NM (700 FT)				
	010° 190°	72.6 NM	FL 510 FL 120	Odd	Even
AKTOBE ACC 129.6 MHZ {C}					
△ TIKTO	494006N 0565014E AKB 190.0° 38.2 NM (700 FT)				
	010° 190°	38.2 NM	FL 510 FL 120	Odd	Even
AKTOBE ACC 129.6 MHZ AKTOBE TOWER 120.9 MHZ {C}					
▲ AKTOBE DVOR/ DME (AKB)	501548N 0571055E				
	007° 187°	38.6 NM	FL 510 FL 120	Odd	Even
AKTOBE ACC 129.6 MHZ AKTOBE TOWER 120.9 MHZ {C}					

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
▲ SANIR (FIR BDRY)	505230N 0572942E AKB 007.0° 38.6 NM (700 FT)				For continuation, see AIP Russia

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
L993 (RNAV 5)					
KARAGANDA ▲ DVOR/DME (KRG)	494114N 0732226E				
	278° 092°	208.7 NM	FL 510 FL 250	Even Odd	ASTANA ACC 124.1 MHZ {C}
TUSEP ▲	503136N 0680751E ARK 064.0° 44.4 NM (1300 FT)				
	278° 090°	302.7 NM	FL 510 FL 250	Even Odd	ASTANA ACC 133.1 MHZ {C}
LENTA (FIR BDRY) ▲	514854N 0602236E KST 221.0° 143.0 NM (600 FT)				For continuation, see AIP Russia

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
L994 (RNAV 5)					
▲ UST- KAMENOGORS K DVOR/DME (UKM)	500158N 0823031E				
	277° 095°	45.2 NM	FL 510 FL 120	Even Odd	ALMATY ACC 132.1 MHZ UST-KAMENOGORSK TOWER 130.1 MHZ {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑		Controlling unit {Airspace class} Remarks
▲ LIRNA	501159N 0812203E SEM 094.0° 44.2 NM (700 FT)					
	275° 094°	44.6 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ SEMEY TOWER 128.0 MHZ {C}
▲ SOMIP	502106N 0801402E SEM 281.0° 0.4 NM (700 FT)					
	278° 097°	43.2 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ SEMEY TOWER 128.0 MHZ {C}
△ ETORI	503208N 0790845E SEM 277.0° 43.6 NM (700 FT)					
	277° 096°	38.3 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}
▲ BAMAT (FIR BDRY)	504125N 0781025E SEM 276.0° 81.9 NM (700 FT)					
	276° 095°	30.9 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ DILGI	504833N 0772303E PVL 164.0° 84.8 NM (500 FT)					
	275° 094°	31.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ GOBSO	505523N 0763521E PVL 184.0° 79.6 NM (500 FT)					
	268° 085°	137.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ EDANO	510858N 0725804E AST 072.0° 58.7 NM (1200 FT)					
	252° 071°	58.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}
▲ ASTANA DVOR/ DME (AST)	510006N 0712600E					
	288° 106°	64.2 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ DIDAL	512908N 0695453E AST 286.0° 64.2 NM (1200 FT)					
	287° 105°	64.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
▲ ATBAN	515824N 0682152E KTU 197.0° 94.6 NM (900 FT)					
	284° 103°	32.5 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
▲ ATNON	521149N 0673350E KTU 215.0° 102.0 NM (900 FT)					
	283° 102°	33.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ LATKO	522508N 0664427E KTU 229.0° 118.6 NM (900 FT)					
	282° 100°	52.2 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ GITNA	524459N 0652518E KST 100.0° 72.4 NM (600 FT)					
	281° 101°	8.4 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ DOKUT	524814N 0651230E KST 099.0° 63.9 NM (600 FT)					
	280° 099°	64.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}
▲ KOSTANAY DVOR/DME (KST)	531113N 0633346E					
	268° 086°	38.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}
△ LODEZ	531715N 0623004E KST 268.0° 38.7 NM (600 FT)					
	266° 085°	48.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
▲ TITUR (FIR BDRY)	532406N 0610924E KST 268.0° 87.6 NM (600 FT)				

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
L998 (RNAV 5)					
△ IZIMA	432236N 0770503E ATA 332.2° 0.1 NM (2200 FT)				
	333° 152°	14.2 NM	FL 510 FL 120	Even Odd	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ BEDUR	433546N 0765739E ATA 332.7° 14.3 NM (2200 FT)				
	332° 152°	13.6 NM	FL 510 FL 120	Even Odd	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ DETAK	434823N 0765029E ATA 332.6° 28 NM (2200 FT)				
	332° 152°	13.1 NM	FL 510 FL 120	Even Odd	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
▲ BAKIS	440031N 0764333E ATA 332.6° 41.1 NM (2200 FT)				
	332° 152°	15.0 NM	FL 510 FL 120	Even Odd	ALMATY ACC 133.1 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ UMIRO	441421N 0763537E ATA 332.7° 56.1 NM (2200 FT)				
	332° 152°	6.6 NM	FL 510 FL 120	Even Odd	ALMATY ACC 133.1 MHZ ALMATY APPROACH 124.8 MHZ {C}

Route designator		[Route Usage Notes]						
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks		
				↓	↑			
▲ ETEDA	442024N 0763206E ATA 332.6° 62.6 NM (2200 FT)							
	332° 151°	58.5 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 133.1 MHZ {C}		
△ DODOK	451420N 0760011E TDK 268.0° 103.3 NM (2000 FT)							
	331° 150°	31.3 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 133.1 MHZ {C}		
▲ RITAB	454308N 0754239E BLH 150.0° 76.1 NM (1400 FT)							
	330° 150°	32.9 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ {C}		
△ TULPI	461318N 0752358E BLH 150.0° 43.3 NM (1400 FT)							
	330° 150°	43.3 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ BALKHASH TOWER 128.0 MHZ {C}		
▲ BALKHASH DVOR/DME (BLH)	465259N 0745902E							
	315° 134°	52.9 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ BALKHASH TOWER 128.0 MHZ {C}		
△ BAGIL	473425N 0741044E BLH 314.0° 52.9 NM (1400 FT)							
	314° 134°	40.3 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ {C}		
▲ AGADI (FIR BDRY)	480559N 0733338E BLH 314.0° 93.2 NM (1400 FT)							
	304° 118°	221.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}		
△ ASTIK	502734N 0691434E ARK 075.0° 85.7 NM (1300 FT)							
	307° 125°	75.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}		

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ RUDAL	512154N 0675222E ARK 017.0° 70.7 NM (1300 FT)					
	302° 118°	131.1 NM	<div>FL 510</div> <div>FL 120</div>	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ DOKUT	524814N 0651230E KST 099.0° 63.9 NM (600 FT)					
	300° 117°	119.3 NM	<div>FL 510</div> <div>FL 120</div>	Even	Odd	ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}
▲ LANOR (FIR BDRY)	540536N 0624042E KST 318.0° 63.0 NM (600 FT)					