

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)	(1) For distribution, see AIP China					
▲ AKTOBE DVOR/ DME (AKB)	501548N 0571055E					
	086° 267°	44.1 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 128.0 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)				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 Tower” 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}
	074° 255°	26.7 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		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 FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Atyrau Tower” 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 0815315E 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	<div>FL 510 FL 120</div>	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 Lower limit	FL series		Controlling unit {Airspace class} Remarks	
				↓	↑		
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 Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	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)	(1) Before, see AIP Kyrgyzstan (2) For continuation, see AIP Russia					
▲ 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 ↓ ↑	Controlling unit {Airspace class} Remarks
△ RIGDO	495937N 0581049E AKB 102.0° 41.8 NM (700 FT)				
	283° 102°	41.8 NM	FL 510 FL 120	Even Odd	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 128.0 MHZ {C}
▲ AKTOBE DVOR/ DME (AKB)	501548N 0571055E				

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 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}
△ 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}	
▲ ELENÜ (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 Lower limit	FL series ↓ ↑	
	271° 091°	40.8 NM	FL 510 FL 120	Even	Odd
△ DIKAM	443650N 0663555E KZO 089.0° 44.6 NM (500 FT)				SHYMKENT ACC 127.3 MHZ {C}
	270° 089°	44.6 NM	FL 510 FL 120	Even	Odd
▲ KYZYLORDA DVOR/DME (KZO)	444145N 0653349E				SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}
	238° 057°	45.1 NM	FL 510 FL 120	Even	Odd
△ BADAS	442221N 0643656E KZO 237.0° 45.1 NM (500 FT)				SHYMKENT ACC 127.3 MHZ {C}
	237° 057°	21.2 NM	FL 510 FL 120	Even	Odd
△ ERTUZ	441307N 0641019E KZO 238.0° 66.3 NM (500 FT)				SHYMKENT ACC 127.3 MHZ {C}
	237° 056°	39.8 NM	FL 510 FL 120	Even	Odd
△ TIPEN	435532N 0632045E KZO 236.0° 106.1 NM (500 FT)				SHYMKENT ACC 127.3 MHZ {C}
	236° 056°	25.0 NM	FL 510 FL 120	Even	Odd
△ 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				Before, see AIP Russia
		ATR 236.0° 117.4 NM (0 FT)				
	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 Tower” 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		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ 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 “Aktobe Tower” 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 “Aktobe Tower” 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 ↓ ↑	Controlling unit {Airspace class} Remarks
△ ARNUS	430052N 0533509E AKT 107.0° 121.6 NM (100 FT)				
	009° 189°	30.5 NM	FL 510 FL 120	Odd Even	AKTOBE ACC 119.8 MHZ {C}
△ BAPER	433011N 0534642E AKT 094.0° 120.2 NM (100 FT)				
	009° 189°	23.8 NM	FL 510 FL 120	Odd Even	AKTOBE ACC 119.8 MHZ {C}
△ RINIT	435305N 0535549E BNU 202.0° 101.2 NM (0 FT)				
	009° 189°	59.9 NM	FL 510 FL 120	Odd Even	AKTOBE ACC 119.8 MHZ {C}
▲ BODSI	445034N 0541914E BNU 220.0° 45.3 NM (0 FT)				
	011° 191°	44.1 NM	FL 510 FL 120	Odd Even	AKTOBE ACC 119.8 MHZ {C}
△ AGNIM	453221N 0543918E BNU 293.0° 23.1 NM (0 FT)				
	011° 191°	18.1 NM	FL 510 FL 120	Odd Even	AKTOBE ACC 119.8 MHZ {C}
▲ NESDO	454926N 0544739E BNU 326.0° 32.2 NM (0 FT)				
	011° 191°	62.7 NM	FL 510 FL 120	Odd Even	AKTOBE ACC 130.9 MHZ {C}
△ PEMOL	464841N 0551720E BNU 356.0° 88.6 NM (0 FT)				
	011° 191°	43.9 NM	FL 510 FL 120	Odd Even	AKTOBE ACC 130.9 MHZ {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
				↓	↑	
	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 FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Atyrau Tower” 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 FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Aktobe Tower” 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 128.0 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 128.0 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 ↓ ↑	
△ DIDAL	512908N 0695453E AST 286.0° 64.2 NM (1200 FT)				
	287° 105°	64.8 NM	FL 510 FL 120	Even	Odd
▲ ATBAN	515824N 0682152E KTU 197.0° 94.6 NM (900 FT)				ASTANA ACC 132.8 MHZ {C}
	284° 103°	32.5 NM	FL 510 FL 120	Even	Odd
▲ ATNON	521149N 0673350E KTU 215.0° 102.0 NM (900 FT)				
	283° 102°	33.1 NM	FL 510 FL 120	Even	Odd
△ LATKO	522508N 0664427E KTU 229.0° 118.6 NM (900 FT)				
	282° 100°	52.2 NM	FL 510 FL 120	Even	Odd
△ GITNA	524459N 0652518E KST 100.0° 72.4 NM (600 FT)				
	281° 101°	8.4 NM	FL 510 FL 120	Even	Odd
△ DOKUT	524814N 0651230E KST 099.0° 63.9 NM (600 FT)				
	280° 099°	64.0 NM	FL 510 FL 120	Even	Odd
▲ KOSTANAY DVOR/DME (KST)	531113N 0633346E				
	268° 086°	38.7 NM	FL 510 FL 120	Even	Odd
△ LODEZ	531715N 0623004E KST 268.0° 38.7 NM (600 FT)				
	266° 085°	48.8 NM	FL 510 FL 120	Even	Odd

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 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 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)						