

## ENR-3.2.2 "M" 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<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |                            |           |      | Remarks   |
| (RNAV / RNP Type)      | Track<br>MAG | Dist   | Upper limit<br>Lower limit | FL series |      | Controlling unit<br>{Airspace class}<br>Remarks |
|                        |              |  |                            | ↓         | ↑    |   |
| M34<br>(RNAV 5)        |              |  |                            |           |      |   |
| ▲ BALGO<br>(FIR BDRY)  |              | 430234N 0733602E<br><b>TAR</b><br><b>079.0° 102.7 NM</b><br><b>(2200 FT)</b>                   |                            |           |      | <b>Before, see AIP Russia and CIS</b>           |
|                        | 004°<br>184° | 39.7 NM  | FL 510<br>FL 120           | Odd       | Even | SHYMKENT ACC 132.7 MHZ<br>{C}                   |
| ▲ TOMGO                |              | 434146N 0734454E<br><b>TAR</b><br><b>060.0° 118.9 NM</b><br><b>(2200 FT)</b>                   |                            |           |      |   |
|                        | 009°<br>189° | 39.5 NM  | FL 510<br>FL 120           | Odd       | Even | SHYMKENT ACC 132.7 MHZ<br>{C}                   |
| ▲ ALAKO                |              | 441958N 0735903E<br><b>ATA</b><br><b>289.1° 146.4 NM</b><br><b>(2200 FT)</b>                   |                            |           |      |   |
|                        | 009°<br>189° | 10.3 NM  | FL 510<br>FL 120           | Odd       | Even | SHYMKENT ACC 132.7 MHZ<br>{C}                   |
| ▲ ABEBA<br>(FIR BDRY)  |              | 442957N 0740248E<br><b>ATA</b><br><b>293.0° 148 NM</b><br><b>(2200 FT)</b>                     |                            |           |      |   |
|                        | 009°<br>189° | 31.0 NM  | FL 510<br>FL 120           | Odd       | Even | ALMATY ACC 125.5 MHZ<br>{C}                     |
| △ TENRO                |              | 445953N 0741408E<br><b>BLH</b><br><b>188.0° 117.4 NM</b><br><b>(1400 FT)</b>                   |                            |           |      |   |
|                        | 009°<br>189° | 58.5 NM  | FL 510<br>FL 120           | Odd       | Even | ALMATY ACC 125.5 MHZ<br>{C}                     |
| △ ABMIK                |              | 455616N 0743604E<br><b>BLH</b><br><b>189.0° 58.9 NM</b><br><b>(1400 FT)</b>                    |                            |           |      |   |

| Route designator                |  | [Route Usage Notes]  |                            |           |      |   |
|---------------------------------|--|--|----------------------------|-----------|------|---|
| Significant Point Name          |  | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |                            |           |      | Remarks   |
| (RNAV / RNP Type)               | Track<br>MAG   | Dist   | Upper limit<br>Lower limit | FL series |      | Controlling unit<br>{Airspace class}<br>Remarks         |
|                                 |  |  |                            | ↓         | ↑    |   |
|                                 | 009°<br>189°   | 58.9 NM  | FL 510<br>FL 120           | Odd       | Even | ALMATY ACC 125.5 MHZ<br>BALKHASH TOWER 128.0 MHZ<br>{C} |
| ▲ BALKHASH<br>DVOR/DME<br>(BLH) | 465259N 0745902E   |  |                            |           |      |   |
|                                 | 008°<br>188°   | 37.6 NM  | FL 510<br>FL 120           | Odd       | Even | ALMATY ACC 125.5 MHZ<br>BALKHASH TOWER 128.0 MHZ<br>{C} |
| △ OBARU                         | 472917N 0751312E<br><b>BLH</b><br><b>008.0° 37.6 NM</b><br><b>(1400 FT)</b>  |  |                            |           |      |   |
|                                 | 008°<br>188°   | 72.8 NM  | FL 510<br>FL 120           | Odd       | Even | ALMATY ACC 125.5 MHZ<br>{C}                             |
| ▲ AGPIN<br>(FIR BDRY)           | 483931N 0754146E<br><b>KRG</b><br><b>116.0° 110.3 NM</b><br><b>(1800 FT)</b> |  |                            |           |      |   |
|                                 | 008°<br>188°   | 20.9 NM  | FL 510<br>FL 120           | Odd       | Even | ASTANA ACC 124.1 MHZ<br>{C}                             |
| △ LALAS                         | 485941N 0755014E<br><b>KRG</b><br><b>105.0° 105.2 NM</b><br><b>(1800 FT)</b> |  |                            |           |      |   |
|                                 | 008°<br>188°   | 8.1 NM   | FL 510<br>FL 120           | Odd       | Even | ASTANA ACC 124.1 MHZ<br>{C}                             |
| △ ULKAP                         | 490729N 0755332E<br><b>KRG</b><br><b>101.0° 104.3 NM</b><br><b>(1800 FT)</b> |  |                            |           |      |   |
|                                 | 008°<br>188°   | 42.1 NM  | FL 510<br>FL 120           | Odd       | Even | ASTANA ACC 124.1 MHZ<br>{C}                             |
| ▲ AGINU<br>(FIR BDRY)           | 494800N 0761100E<br><b>KRG</b><br><b>077.0° 109.5 NM</b><br><b>(1800 FT)</b> |  |                            |           |      |   |
|                                 | 005°<br>185°   | 69.2 NM  | FL 510<br>FL 120           | Odd       | Even | ASTANA ACC 132.8 MHZ<br>{C}                             |
| △ GOBSO                         | 505523N 0763521E<br><b>PVL</b><br><b>184.0° 79.6 NM</b><br><b>(500 FT)</b>   |  |                            |           |      |   |

| Route designator                | [Route Usage Notes]  |         |                            |           |         |   |
|---------------------------------|--|---------|----------------------------|-----------|---------|---|
| Significant Point Name          | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |         |                            |           | Remarks |   |
| (RNAV / RNP Type)               | Track<br>MAG   | Dist    | Upper limit<br>Lower limit | FL series |         | Controlling unit<br>{Airspace class}<br>Remarks         |
|                                 |  |         |                            | ↓         | ↑       |   |
|                                 | 005°<br>184°   | 48.4 NM | FL 510<br>FL 120           | Odd       | Even    | ASTANA ACC 132.8 MHZ<br>PAVLODAR TOWER 119.8 MHZ<br>{C} |
| △ EKTUS                         | 514225N 0765305E<br><b>PVL</b><br><b>185.0° 31.2 NM</b><br><b>(500 FT)</b>                     |         |                            |           |         |   |
|                                 | 005°<br>186°   | 31.2 NM | FL 510<br>FL 120           | Odd       | Even    | ASTANA ACC 132.8 MHZ<br>PAVLODAR TOWER 119.8 MHZ<br>{C} |
| ▲ PAVLODAR<br>DVOR/DME<br>(PVL) | 521235N 0770542E   |         |                            |           |         |   |
|                                 |  |         |                            |           |         |   |

| Route designator       |              | [Route Usage Notes]  |                            |           |     |   |
|------------------------|--------------|--|----------------------------|-----------|-----|---|
| Significant Point Name |              | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |                            |           |     | Remarks   |
| (RNAV / RNP Type)      | Track<br>MAG | Dist   | Upper limit<br>Lower limit | FL series |     | Controlling unit<br>{Airspace class}<br>Remarks       |
|                        |              |  |                            | ↓         | ↑   |   |
| M56<br>(RNAV 5)        |              |  |                            |           |     |   |
| ▲ GERLI                |              | 495334N 0535254E<br><br>URL<br>120.0° 117.1 NM<br>(200 FT)                                     |                            |           |     |   |
|                        | 310°<br>128° | 76.7 NM  | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 131.4 MHZ<br>{C}                           |
| △ VEVIK                |              | 505201N 0523529E<br><br>URL<br>102.0° 43.1 NM<br>(200 FT)                                      |                            |           |     |   |
|                        | 321°<br>140° | 55.2 NM  | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 131.4 MHZ<br>URALSK TOWER 119.7 MHZ<br>{C} |
| ▲ BEKAS<br>(FIR BDRY)  |              | 514029N 0515327E<br><br>URL<br>011.0° 34.2 NM<br>(200 FT)                                      |                            |           |     |   |
|                        |              |  |                            |           |     |   |

| Route designator       |              | [Route Usage Notes]  |                            |           |      |   |
|------------------------|--------------|--|----------------------------|-----------|------|---|
| Significant Point Name |              | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |                            |           |      | Remarks   |
| (RNAV / RNP Type)      | Track<br>MAG | Dist   | Upper limit<br>Lower limit | FL series |      | Controlling unit<br>{Airspace class}<br>Remarks |
|                        |              |  |                            | ↓         | ↑    |   |
| M75<br>(RNAV 5)        |              |  |                            |           |      |   |
| ▲ UBAGU<br>(FIR BDRY)  |              | 430228N 0625120E<br><b>KZO</b><br><b>221.0° 153.8 NM</b><br><b>(500 FT)</b>                    |                            |           |      | Before, see AIP Uzbekistan                      |
|                        | 042°<br>223° | 26.4 NM  | FL 510<br>FL 120           | Odd       | Even | SHYMKENT ACC 127.3 MHZ<br>{C}                   |
| △ RIMDO                |              | 431940N 0631837E<br><b>KZO</b><br><b>222.0° 127.5 NM</b><br><b>(500 FT)</b>                    |                            |           |      |   |
|                        | 043°<br>223° | 16.7 NM  | FL 510<br>FL 120           | Odd       | Even | SHYMKENT ACC 127.3 MHZ<br>{C}                   |
| △ NITNA                |              | 433032N 0633601E<br><b>KZO</b><br><b>222.0° 110.8 NM</b><br><b>(500 FT)</b>                    |                            |           |      |   |
|                        | 043°<br>223° | 11.8 NM  | FL 510<br>FL 120           | Odd       | Even | SHYMKENT ACC 127.3 MHZ<br>{C}                   |
| ▲ MIMRI                |              | 433808N 0634822E<br><b>KZO</b><br><b>222.0° 99.0 NM</b><br><b>(500 FT)</b>                     |                            |           |      |   |
|                        | 026°<br>206° | 56.8 NM  | FL 510<br>FL 120           | Odd       | Even | SHYMKENT ACC 127.3 MHZ<br>{C}                   |
| △ ADREM                |              | 442548N 0643118E<br><b>KZO</b><br><b>243.0° 47.5 NM</b><br><b>(500 FT)</b>                     |                            |           |      |   |
|                        | 026°<br>206° | 28.2 NM  | FL 510<br>FL 150           | Odd       | Even | SHYMKENT ACC 127.3 MHZ<br>{C}                   |
| △ GIGUR                |              | 444920N 0645300E<br><b>KZO</b><br><b>277.0° 30.1 NM</b><br><b>(500 FT)</b>                     |                            |           |      |   |
|                        | 026°<br>206° | 6.9 NM   | FL 510<br>FL 150           | Odd       | Even | SHYMKENT ACC 127.3 MHZ<br>{C}                   |
| △ BUDET                |              | 445507N 0645824E<br><b>KZO</b><br><b>290.0° 28.5 NM</b><br><b>(500 FT)</b>                     |                            |           |      |   |

| Route designator                  |   | [Route Usage Notes]  |                            |           |      |   |
|-----------------------------------|---|--|----------------------------|-----------|------|---|
| Significant Point Name            |   | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |                            |           |      | Remarks   |
| (RNAV / RNP Type)                 | Track<br>MAG  | Dist   | Upper limit<br>Lower limit | FL series |      | Controlling unit<br>{Airspace class}<br>Remarks           |
|                                   |   |  |                            | ↓         | ↑    |   |
|                                   | 026°<br>207°  | 80.3 NM  | FL 510<br>FL 150           | Odd       | Even | SHYMKENT ACC 127.3 MHZ<br>{C}                             |
| △ ANIGO                           | 460143N 0660207E<br><b>KZO</b><br><b>007.0° 82.4 NM</b><br><b>(500 FT)</b>  |  |                            |           |      |   |
|                                   | 027°<br>207°  | 35.2 NM  | FL 510<br>FL 120           | Odd       | Even | SHYMKENT ACC 127.3 MHZ<br>{C}                             |
| ▲ BAMET<br>(FIR BDRY)             | 463042N 0663051E<br><b>DZG</b><br><b>206.0° 88.8 NM</b><br><b>(1300 FT)</b> |  |                            |           |      |   |
|                                   | 027°<br>207°  | 32.1 NM  | FL 510<br>FL 120           | Odd       | Even | ASTANA ACC 132.5 MHZ<br>{C}                               |
| △ GISIR                           | 465704N 0665732E<br><b>DZG</b><br><b>206.0° 56.7 NM</b><br><b>(1300 FT)</b> |  |                            |           |      |   |
|                                   | 027°<br>207°  | 13.3 NM  | FL 510<br>FL 120           | Odd       | Even | ASTANA ACC 132.5 MHZ<br>{C}                               |
| △ REMTI                           | 470757N 0670843E<br><b>DZG</b><br><b>206.0° 43.4 NM</b><br><b>(1300 FT)</b> |  |                            |           |      |   |
|                                   | 027°<br>207°  | 43.4 NM  | FL 510<br>FL 120           | Odd       | Even | ASTANA ACC 132.5 MHZ<br>ZHEZKAZGAN TOWER 127.1 MHZ<br>{C} |
| ▲ ZHEZKAZGAN<br>DVOR/DME<br>(DZG) | 474317N 0674542E  |  |                            |           |      |   |
|                                   | 027°<br>207°  | 43.1 NM  | FL 510<br>FL 120           | Odd       | Even | ASTANA ACC 132.5 MHZ<br>ZHEZKAZGAN TOWER 127.1 MHZ<br>{C} |
| △ DOPAR                           | 481831N 0682229E<br><b>DZG</b><br><b>027.0° 43.0 NM</b><br><b>(1300 FT)</b> |  |                            |           |      |   |
|                                   | 025°<br>205°  | 16.7 NM  | FL 510<br>FL 120           | Odd       | Even | ASTANA ACC 132.5 MHZ<br>{C}                               |
| △ MAKUT                           | 483217N 0683632E<br><b>DZG</b><br><b>026.0° 59.7 NM</b><br><b>(1300 FT)</b> |  |                            |           |      |   |

| Route designator            | [Route Usage Notes]  |         |                            |           |         |  |
|-----------------------------|--|---------|----------------------------|-----------|---------|--|
| Significant Point Name      | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |         |                            |           | Remarks |  |
| (RNAV / RNP Type)           | Track<br>MAG   | Dist    | Upper limit<br>Lower limit | FL series |         | Controlling unit<br>{Airspace class}<br>Remarks          |
|                             |  |         |                            | ↓         | ↑       |  |
|                             | 027°<br>207°   | 54.9 NM | FL 510<br>FL 120           | Odd       | Even    | ASTANA ACC 132.5 MHZ<br>{C}                              |
| ▲ AMIGU                     | 491645N 0692517E<br><b>ARK</b><br><b>114.0° 112.2 NM</b><br><b>(1300 FT)</b>                   |         |                            |           |         |  |
|                             | 027°<br>207°   | 57.0 NM | FL 510<br>FL 120           | Odd       | Even    | ASTANA ACC 124.1 MHZ<br>{C}                              |
| △ RELGO                     | 500234N 0701730E<br><b>AST</b><br><b>207.0° 72.3 NM</b><br><b>(1200 FT)</b>                    |         |                            |           |         |  |
|                             | 027°<br>208°   | 9.3 NM  | FL 510<br>FL 120           | Odd       | Even    | ASTANA ACC 124.1 MHZ<br>{C}                              |
| △ KOKON                     | 500958N 0702609E<br><b>AST</b><br><b>207.0° 63.0 NM</b><br><b>(1200 FT)</b>                    |         |                            |           |         |  |
|                             | 027°<br>208°   | 14.8 NM | FL 510<br>FL 120           | Odd       | Even    | ASTANA ACC 124.1 MHZ<br>ASTANA APPROACH 124.6 MHZ<br>{C} |
| ▲ BASPA                     | 502144N 0704001E<br><b>AST</b><br><b>208.0° 48.3 NM</b><br><b>(1200 FT)</b>                    |         |                            |           |         |  |
|                             | 028°<br>208°   | 30.1 NM | FL 510<br>FL 120           | Odd       | Even    | ASTANA ACC 132.8 MHZ<br>ASTANA APPROACH 124.6 MHZ<br>{C} |
| △ LIGMO                     | 504539N 0710837E<br><b>AST</b><br><b>207.0° 18.2 NM</b><br><b>(1200 FT)</b>                    |         |                            |           |         |  |
|                             | 027°<br>208°   | 18.2 NM | FL 510<br>FL 120           | Odd       | Even    | ASTANA ACC 132.8 MHZ<br>ASTANA APPROACH 124.6 MHZ<br>{C} |
| ▲ ASTANA DVOR/<br>DME (AST) | 510006N 0712600E   |         |                            |           |         |  |
|                             | 360°<br>180°   | 66.2 NM | FL 510<br>FL 120           | Odd       | Even    | ASTANA ACC 132.8 MHZ<br>ASTANA APPROACH 124.6 MHZ<br>{C} |
| △ OLGAS                     | 520510N 0714507E<br><b>AST</b><br><b>001.0° 66.2 NM</b><br><b>(1200 FT)</b>                    |         |                            |           |         |  |

| Route designator       | [Route Usage Notes]  |         |                            |           |         |   |
|------------------------|--|---------|----------------------------|-----------|---------|---|
| Significant Point Name | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |         |                            |           | Remarks |   |
| (RNAV / RNP Type)      | Track<br>MAG   | Dist    | Upper limit<br>Lower limit | FL series |         | Controlling unit<br>{Airspace class}<br>Remarks |
|                        |  |         |                            | ↓         | ↑       |   |
|                        | 001°<br>181°   | 34.4 NM | FL 510<br>FL 120           | Odd       | Even    | ASTANA ACC 132.8 MHZ<br>{C}                     |
| △ AMOLA                | 523853N 0715604E<br><b>KTU</b><br><b>106.0° 94.0 NM</b><br><b>(900 FT)</b>                     |         |                            |           |         |   |
|                        | 359°<br>179°   | 22.0 NM | FL 510<br>FL 120           | Even      | Odd     | ASTANA ACC 132.8 MHZ<br>{C}                     |
| △ ULSET                | 530027N 0720230E<br><b>KTU</b><br><b>093.0° 89.9 NM</b><br><b>(900 FT)</b>                     |         |                            |           |         |   |
|                        | 359°<br>179°   | 38.2 NM | FL 510<br>FL 120           | Even      | Odd     | ASTANA ACC 132.8 MHZ<br>{C}                     |
| ▲ POBUR                | 533800N 0721400E<br><b>KTU</b><br><b>069.0° 95.3 NM</b><br><b>(900 FT)</b>                     |         |                            |           |         |   |
|                        | 360°<br>179°   | 32.1 NM | FL 510<br>FL 120           | Even      | Odd     | ASTANA ACC 132.8 MHZ<br>{C}                     |
| ▲ DAKIN<br>(FIR BDRY)  | 540930N 0722418E<br><b>KTU</b><br><b>053.0° 110.5 NM</b><br><b>(900 FT)</b>                    |         |                            |           |         | <b>For continuation, see AIP<br/>Russia</b>     |

| Route designator       | [Route Usage Notes]  |         |                            |           |         |   |
|------------------------|--|---------|----------------------------|-----------|---------|---|
| Significant Point Name | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |         |                            |           | Remarks |   |
| (RNAV / RNP Type)      | Track<br>MAG   | Dist    | Upper limit<br>Lower limit | FL series |         | Controlling unit<br>{Airspace class}<br>Remarks |
|                        |  |         |                            | ↓         | ↑       |   |
| M149<br>(RNAV 5)       |  |         |                            |           |         |   |
| ▲ AGUNA                | 435906N 0754739E<br><br>ATA<br>298.4° 67.1 NM<br>(2200 FT)                                     |         |                            |           |         |   |
|                        | 336°<br>156°   | 53.8 NM | FL 510<br>FL 120           | Even      | Odd     | ALMATY ACC 133.1 MHZ<br>{C}                     |

| Route designator                | [Route Usage Notes]  |         |                            |           |      |   |
|---------------------------------|--|---------|----------------------------|-----------|------|---|
| Significant Point Name          | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |         |                            |           |      | Remarks   |
| (RNAV / RNP Type)               | Track<br>MAG   | Dist    | Upper limit<br>Lower limit | FL series |      | Controlling unit<br>{Airspace class}<br>Remarks         |
|                                 |  |         |                            | ↓         | ↑    |   |
| △ ADIRO                         | 445011N 075235E<br><b>ATA</b><br><b>315.7° 114 NM</b><br><b>(2200 FT)</b>                      |         |                            |           |      |   |
|                                 | 335°<br>155°   | 29.6 NM | FL 510<br>FL 120           | Even      | Odd  | ALMATY ACC 133.1 MHZ<br>{C}                             |
| ▲ MALOD                         | 451812N 0751037E<br><b>BLH</b><br><b>168.0° 95.2 NM</b><br><b>(1400 FT)</b>                    |         |                            |           |      |   |
|                                 | 349°<br>168°   | 48.5 NM | FL 510<br>FL 120           | Even      | Odd  | ALMATY ACC 125.5 MHZ<br>{C}                             |
| △ KONEK                         | 460631N 0750443E<br><b>BLH</b><br><b>168.0° 46.7 NM</b><br><b>(1400 FT)</b>                    |         |                            |           |      |   |
|                                 | 349°<br>168°   | 46.7 NM | FL 510<br>FL 120           | Even      | Odd  | ALMATY ACC 125.5 MHZ<br>BALKHASH TOWER 128.0 MHZ<br>{C} |
| ▲ BALKHASH<br>DVOR/DME<br>(BLH) | 465259N 0745902E   |         |                            |           |      |   |
|                                 | 021°<br>201°   | 39.9 NM | FL 510<br>FL 120           | Odd       | Even | ALMATY ACC 125.5 MHZ<br>BALKHASH TOWER 128.0 MHZ<br>{C} |
| △ BIKRI                         | 472814N 0752625E<br><b>BLH</b><br><b>021.0° 39.9 NM</b><br><b>(1400 FT)</b>                    |         |                            |           |      |   |
|                                 | 021°<br>201°   | 75.6 NM | FL 510<br>FL 120           | Odd       | Even | ALMATY ACC 125.5 MHZ<br>{C}                             |
| ▲ ROSID                         | 483440N 0762005E<br><b>BLH</b><br><b>022.0° 115.5 NM</b><br><b>(1400 FT)</b>                   |         |                            |           |      |   |
|                                 | 021°<br>201°   | 25.1 NM | FL 510<br>FL 120           | Odd       | Even | ALMATY ACC 132.1 MHZ<br>{C}                             |
| △ TAGAL                         | 485638N 0763825E<br><b>KRG</b><br><b>102.0° 135.8 NM</b><br><b>(1800 FT)</b>                   |         |                            |           |      |   |
|                                 | 021°<br>202°   | 15.8 NM | FL 510<br>FL 120           | Odd       | Even | ALMATY ACC 132.1 MHZ<br>{C}                             |



| Route designator       |              | [Route Usage Notes]  |                            |           |      |   |
|------------------------|--------------|--|----------------------------|-----------|------|---|
| Significant Point Name |              | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |                            |           |      | Remarks   |
| (RNAV / RNP Type)      | Track<br>MAG | Dist   | Upper limit<br>Lower limit | FL series |      | Controlling unit<br>{Airspace class}<br>Remarks |
|                        |              |  |                            | ↓         | ↑    |   |
| △ ESUMA                |              | 491025N 0765006E<br><b>KRG</b><br><b>095.0° 139.0 NM</b><br><b>(1800 FT)</b>                   |                            |           |      |   |
|                        | 021°<br>202° | 57.3 NM  | FL 510<br>FL 120           | Odd       | Even | ALMATY ACC 132.1 MHZ<br>{C}                     |
| △ ADETA                |              | 500015N 0773321E<br><b>SEM</b><br><b>250.0° 105.7 NM</b><br><b>(700 FT)</b>                    |                            |           |      |   |
|                        | 022°<br>202° | 47.6 NM  | FL 510<br>FL 220           | Odd       | Even | ALMATY ACC 132.1 MHZ<br>{C}                     |
| ▲ BAMAT<br>(FIR BDRY)  |              | 504125N 0781025E<br><b>SEM</b><br><b>276.0° 81.9 NM</b><br><b>(700 FT)</b>                     |                            |           |      |   |
|                        | 022°<br>202° | 40.3 NM  | FL 510<br>FL 120           | Odd       | Even | ASTANA ACC 132.8 MHZ<br>{C}                     |
| △ MIKSA                |              | 511608N 0784241E<br><b>SEM</b><br><b>306.0° 80.3 NM</b><br><b>(700 FT)</b>                     |                            |           |      |   |
|                        | 022°<br>203° | 39.4 NM  | FL 510<br>FL 120           | Odd       | Even | ASTANA ACC 132.8 MHZ<br>{C}                     |
| ▲ LAGMO<br>(FIR BDRY)  |              | 514954N 0791500E<br><b>PVL</b><br><b>098.0° 83.0 NM</b><br><b>(500 FT)</b>                     |                            |           |      | <b>For continuation, see AIP<br/>Russia</b>     |
|                        |              |  |                            |           |      |   |

| Route designator       | [Route Usage Notes]  |      |                            |           |   |   |
|------------------------|--|------|----------------------------|-----------|---|---|
| Significant Point Name | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |      |                            |           |   | Remarks   |
| (RNAV / RNP Type)      | Track<br>MAG   | Dist | Upper limit<br>Lower limit | FL series |   | Controlling unit<br>{Airspace class}<br>Remarks |
|                        |  |      |                            | ↓         | ↑ |   |
| M158<br>(RNAV 5)       |  |      |                            |           |   |   |
| ▲ BODSI                | 445034N 0541914E<br><br>BNU<br>220.0° 45.3 NM<br>(0 FT)  |      |                            |           |   |   |

| Route designator            |   | [Route Usage Notes]  |                            |           |     |   |
|-----------------------------|---|--|----------------------------|-----------|-----|---|
| Significant Point Name      |   | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |                            |           |     | Remarks   |
| (RNAV / RNP Type)           | Track<br>MAG  | Dist   | Upper limit<br>Lower limit | FL series |     | Controlling unit<br>{Airspace class}<br>Remarks       |
|                             |   |  |                            | ↓         | ↑   |   |
|                             | 316°<br>135°  | 38.5 NM  | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 119.8 MHZ<br>{C}                           |
| ▲ ANIGA                     | 452130N 0534647E<br><b>BNU</b><br><b>262.0° 56.8 NM</b><br><b>(0 FT)</b>  |  |                            |           |     |   |
|                             | 315°<br>135°  | 13.0 NM  | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 130.9 MHZ<br>{C}                           |
| △ GOLGI                     | 453153N 0533543E<br><b>BNU</b><br><b>271.0° 65.5 NM</b><br><b>(0 FT)</b>  |  |                            |           |     |   |
|                             | 315°<br>134°  | 40.7 NM  | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 130.9 MHZ<br>{C}                           |
| △ OTMAS                     | 460419N 0530034E<br><b>ATR</b><br><b>134.0° 81.5 NM</b><br><b>(0 FT)</b>  |  |                            |           |     |   |
|                             | 314°<br>134°  | 38.2 NM  | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 130.9 MHZ<br>{C}                           |
| △ RENPI                     | 463437N 0522656E<br><b>ATR</b><br><b>133.0° 43.2 NM</b><br><b>(0 FT)</b>  |  |                            |           |     |   |
|                             | 314°<br>133°  | 43.2 NM  | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 130.9 MHZ<br>ATYRAU TOWER 118.1 MHZ<br>{C} |
| ▲ ATYRAU DVOR/<br>DME (ATR) | 470838N 0514805E  |  |                            |           |     |   |
|                             | 349°<br>168°  | 43.2 NM  | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 130.9 MHZ<br>ATYRAU TOWER 118.1 MHZ<br>{C} |
| △ OLAPU                     | 475146N 0514531E<br><b>ATR</b><br><b>349.0° 43.2 NM</b><br><b>(0 FT)</b>  |  |                            |           |     |   |
|                             | 348°<br>168°  | 69.9 NM  | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 130.9 MHZ<br>{C}                           |
| ▲ BAGIR                     | 490131N 0514106E<br><b>ATR</b><br><b>348.0° 113.1 NM</b><br><b>(0 FT)</b> |  |                            |           |     |   |

| Route designator            |  | [Route Usage Notes]  |                            |           |      |   |
|-----------------------------|--|--|----------------------------|-----------|------|---|
| Significant Point Name      |  | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |                            |           |      | Remarks   |
| (RNAV / RNP Type)           | Track<br>MAG   | Dist   | Upper limit<br>Lower limit | FL series |      | Controlling unit<br>{Airspace class}<br>Remarks       |
|                             |  |  |                            | ↓         | ↑    |   |
|                             | 348°<br>167°   | 84.3 NM  | FL 510<br>FL 120           | Even      | Odd  | AKTOBE ACC 131.4 MHZ<br>{C}                           |
| △ DOKUS                     | 502539N 0513528E<br><b>URL</b><br><b>166.0° 43.4 NM</b><br><b>(200 FT)</b> |  |                            |           |      |   |
|                             | 347°<br>167°   | 43.4 NM  | FL 510<br>FL 120           | Even      | Odd  | AKTOBE ACC 131.4 MHZ<br>URALSK TOWER 119.7 MHZ<br>{C} |
| ▲ URALSK DVOR/<br>DME (URL) | 510855N 0513238E   |  |                            |           |      |   |
|                             | 046°<br>226°   | 34.8 NM  | FL 510<br>FL 120           | Odd       | Even | AKTOBE ACC 131.4 MHZ<br>URALSK TOWER 119.7 MHZ<br>{C} |
| △ INRIS                     | 512800N 0521856E<br><b>URL</b><br><b>046.0° 34.8 NM</b><br><b>(200 FT)</b> |  |                            |           |      |   |
|                             | 046°<br>226°   | 8.6 NM   | FL 510<br>FL 120           | Odd       | Even | AKTOBE ACC 131.4 MHZ<br>URALSK TOWER 119.7 MHZ<br>{C} |
| ▲ EKTEN<br>(FIR BDRY)       | 513242N 0523030E<br><b>URL</b><br><b>046.0° 43.4 NM</b><br><b>(200 FT)</b> |  |                            |           |      | <b>For continuation, see AIP<br/>Russia</b>           |

| Route designator       |   | [Route Usage Notes]  |                            |           |     |   |
|------------------------|---|--|----------------------------|-----------|-----|---|
| Significant Point Name |   | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |                            |           |     | Remarks   |
| (RNAV / RNP Type)      | Track<br>MAG  | Dist   | Upper limit<br>Lower limit | FL series |     | Controlling unit<br>{Airspace class}<br>Remarks |
|                        |   |  |                            | ↓         | ↑   |   |
| M161<br>(RNAV 5)       |   | (1) Before, see AIP Kazakhstan.<br>(2) For continuation, see AIP Russia                        |                            |           |     |   |
| ▲ ODIVA<br>(FIR BDRY)  | 423530N 0640848E<br><b>KZO</b><br><b>198.0° 140.5 NM</b><br><b>(500 FT)</b> |  |                            |           |     | Before, see AIP Uzbekistan                      |
|                        | 314°<br>133°  | 29.8 NM  | FL 510<br>FL 120           | Even      | Odd | SHYMKENT ACC 127.3 MHZ<br>{C}                   |
| △ BARNO                | 425826N 0634258E<br><b>KZO</b><br><b>211.2° 130.7 NM</b><br><b>(500 FT)</b> |  |                            |           |     |   |

| Route designator       |  | [Route Usage Notes] |                            |           |     |   |
|------------------------|--|---------------------|----------------------------|-----------|-----|---|
| Significant Point Name | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |                     |                            |           |     | Remarks   |
| (RNAV / RNP Type)      | Track<br>MAG   | Dist                | Upper limit<br>Lower limit | FL series |     | Controlling unit<br>{Airspace class}<br>Remarks |
|                        |  |                     |                            | ↓         | ↑   |   |
|                        | 313°<br>133°   | 27.6 NM             | FL 510<br>FL 120           | Even      | Odd | SHYMKENT ACC 127.3 MHZ<br>{C}                   |
| △ RIMDO                | 431940N 0631837E<br><b>KZO</b><br><b>222.0° 127.5 NM</b><br><b>(500 FT)</b>                    |                     |                            |           |     |   |
|                        | 313°<br>132°   | 23.0 NM             | FL 510<br>FL 120           | Even      | Odd | SHYMKENT ACC 127.3 MHZ<br>{C}                   |
| ▲ BOLNA                | 433712N 0625812E<br><b>KZO</b><br><b>232.0° 129.3 NM</b><br><b>(500 FT)</b>                    |                     |                            |           |     |   |
|                        | 312°<br>132°   | 9.3 NM              | FL 510<br>FL 120           | Even      | Odd | SHYMKENT ACC 127.3 MHZ<br>{C}                   |
| △ ADAKA                | 434416N 0624955E<br><b>KZO</b><br><b>236.0° 131.1 NM</b><br><b>(500 FT)</b>                    |                     |                            |           |     |   |
|                        | 312°<br>132°   | 35.1 NM             | FL 510<br>FL 120           | Even      | Odd | SHYMKENT ACC 127.3 MHZ<br>{C}                   |
| △ TOZLI                | 441054N 0621817E<br><b>KZO</b><br><b>251.0° 143.4 NM</b><br><b>(500 FT)</b>                    |                     |                            |           |     |   |
|                        | 312°<br>131°   | 56.9 NM             | FL 510<br>FL 120           | Even      | Odd | SHYMKENT ACC 127.3 MHZ<br>{C}                   |
| △ LATNU                | 445345N 0612553E<br><b>ARL</b><br><b>175.0° 116.1 NM</b><br><b>(300 FT)</b>                    |                     |                            |           |     |   |
|                        | 311°<br>130°   | 42.3 NM             | FL 510<br>FL 120           | Even      | Odd | SHYMKENT ACC 127.3 MHZ<br>{C}                   |
| ▲ MILSO<br>(FIR BDRY)  | 452519N 0604609E<br><b>ARL</b><br><b>194.0° 91.4 NM</b><br><b>(300 FT)</b>                     |                     |                            |           |     |   |
|                        | 310°<br>129°   | 65.3 NM             | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 119 MHZ<br>{C}                       |
| ▲ ABDUN                | 461337N 0594316E<br><b>ARL</b><br><b>236.0° 86.4 NM</b><br><b>(300 FT)</b>                     |                     |                            |           |     |   |
|                        | 307°<br>125°   | 91.5 NM             | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 119 MHZ<br>{C}                       |
| ▲ ARKER                | 471757N 0580839E<br><b>ARL</b><br><b>271.0° 145.3 NM</b><br><b>(300 FT)</b>                    |                     |                            |           |     |   |

| Route designator            |  | [Route Usage Notes] |                  |           |     |   |
|-----------------------------|--|---------------------|------------------|-----------|-----|---|
| Significant Point Name      | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |                     |                  |           |     | Remarks   |
| (RNAV / RNP Type)           | Track<br>MAG   | Dist                | Upper limit      | FL series |     | Controlling unit<br>{Airspace class}<br>Remarks       |
|                             |  |                     | Lower limit      | ↓         | ↑   |   |
|                             | 305°<br>125°   | 28.9 NM             | FL 510<br>FL 120 | Even      | Odd | AKTOBE ACC 129.6 MHZ<br>{C}                           |
| △ UDATO                     | 473801N 0573755E<br><b>AKB</b><br><b>163.0° 158.9 NM</b><br><b>(700 FT)</b>                    |                     |                  |           |     |   |
|                             | 305°<br>123°   | 79.0 NM             | FL 510<br>FL 120 | Even      | Odd | AKTOBE ACC 129.6 MHZ<br>{C}                           |
| △ LOGTO                     | 483204N 0561202E<br><b>AKB</b><br><b>189.0° 110.7 NM</b><br><b>(700 FT)</b>                    |                     |                  |           |     |   |
|                             | 303°<br>123°   | 13.8 NM             | FL 510<br>FL 120 | Even      | Odd | AKTOBE ACC 129.6 MHZ<br>{C}                           |
| △ UGLUK                     | 484125N 0555642E<br><b>AKB</b><br><b>196.0° 106.1 NM</b><br><b>(700 FT)</b>                    |                     |                  |           |     |   |
|                             | 303°<br>123°   | 14.2 NM             | FL 510<br>FL 120 | Even      | Odd | AKTOBE ACC 129.6 MHZ<br>{C}                           |
| △ KURUL                     | 485059N 0554051E<br><b>AKB</b><br><b>203.0° 103.2 NM</b><br><b>(700 FT)</b>                    |                     |                  |           |     |   |
|                             | 303°<br>122°   | 28.0 NM             | FL 510<br>FL 120 | Even      | Odd | AKTOBE ACC 129.6 MHZ<br>{C}                           |
| △ AGMAN                     | 490942N 0550920E<br><b>AKB</b><br><b>218.0° 103.0 NM</b><br><b>(700 FT)</b>                    |                     |                  |           |     |   |
|                             | 302°<br>121°   | 66.4 NM             | FL 510<br>FL 120 | Even      | Odd | AKTOBE ACC 129.6 MHZ<br>{C}                           |
| ▲ GERLI                     | 495334N 0535254E<br><b>URL</b><br><b>120.0° 117.1 NM</b><br><b>(200 FT)</b>                    |                     |                  |           |     |   |
|                             | 301°<br>119°   | 73.8 NM             | FL 510<br>FL 120 | Even      | Odd | AKTOBE ACC 131.4 MHZ<br>{C}                           |
| △ EDAKO                     | 504120N 0522510E<br><b>URL</b><br><b>119.0° 43.2 NM</b><br><b>(200 FT)</b>                     |                     |                  |           |     |   |
|                             | 299°<br>119°   | 43.2 NM             | FL 510<br>FL 120 | Even      | Odd | AKTOBE ACC 131.4 MHZ<br>URALSK TOWER 119.7 MHZ<br>{C} |
| ▲ URALSK DVOR/<br>DME (URL) | 510855N 0513238E   |                     |                  |           |     |   |

| Route designator       |  | [Route Usage Notes] |                            |           |     |   |
|------------------------|--|---------------------|----------------------------|-----------|-----|---|
| Significant Point Name | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |                     |                            |           |     | Remarks   |
| (RNAV / RNP Type)      | Track<br>MAG   | Dist                | Upper limit<br>Lower limit | FL series |     | Controlling unit<br>{Airspace class}<br>Remarks       |
|                        |  |                     |                            | ↓         | ↑   |   |
|                        | 316°<br>135°   | 21.5 NM             | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 131.4 MHZ<br>URALSK TOWER 119.7 MHZ<br>{C} |
| △ OGAPI                | 512648N 0511336E<br><b>URL</b><br><b>315.0° 21.5 NM</b><br><b>(200 FT)</b>                     |                     |                            |           |     |   |
|                        | 316°<br>135°   | 16.3 NM             | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 131.4 MHZ<br>URALSK TOWER 119.7 MHZ<br>{C} |
| ▲ GUTAN<br>(FIR BDRY)  | 514024N 0505912E<br><b>URL</b><br><b>316.0° 37.8 NM</b><br><b>(200 FT)</b>                     |                     |                            |           |     | <b>For continuation, see AIP<br/>Russia</b>           |

| Route designator           |              | [Route Usage Notes]  |                            |           |     |   |
|----------------------------|--------------|--|----------------------------|-----------|-----|---|
| Significant Point Name     |              | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |                            |           |     | Remarks   |
| (RNAV / RNP Type)          | Track<br>MAG | Dist   | Upper limit<br>Lower limit | FL series |     | Controlling unit<br>{Airspace class}<br>Remarks |
|                            |              |  |                            | ↓         | ↑   |   |
| M166<br>(RNAV 5)           |              | (1) Before, See AIP China<br>(2) For Continuation, see AIP Russia                              |                            |           |     |   |
| ▲ SARIN<br>(FIR BDRY)      |              | 465156N 0825317E<br><b>AGZ</b><br><b>118.0° 118.2 NM</b><br><b>(2200 FT)</b>                   |                            |           |     | <b>Before, See AIP China</b>                    |
|                            | 298°<br>117° | 40.5 NM  | FL 510<br>FL 150           | Even      | Odd | ALMATY ACC 132.1 MHZ<br>{C}                     |
| ▲ AGUSA                    |              | 471400N 0820338E<br><b>AGZ</b><br><b>117.0° 77.7 NM</b><br><b>(2200 FT)</b>                    |                            |           |     |   |
|                            | 297°<br>116° | 37.8 NM  | FL 510<br>FL 150           | Even      | Odd | ALMATY ACC 132.1 MHZ<br>{C}                     |
| ▲ TOLKI                    |              | 473415N 0811640E<br><b>AGZ</b><br><b>117.0° 39.9 NM</b><br><b>(2200 FT)</b>                    |                            |           |     |   |
|                            | 297°<br>117° | 22.5 NM  | FL 510<br>FL 120           | Even      | Odd | ALMATY ACC 132.1 MHZ<br>{C}                     |
| △ BANUM                    |              | 474633N 0804834E<br><b>AGZ</b><br><b>296.3° 17.3 NM</b><br><b>(2200 FT)</b>                    |                            |           |     |   |
|                            | 296°<br>116° | 17.3 NM  | FL 510<br>FL 120           | Even      | Odd | ALMATY ACC 132.1 MHZ<br>{C}                     |
| ▲ AYAGUZ VOR/<br>DME (AGZ) |              | 475552N 0802659E   |                            |           |     |   |

| Route designator                 |  | [Route Usage Notes] |                  |           |     |  |
|----------------------------------|--|---------------------|------------------|-----------|-----|--|
| Significant Point Name           | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |                     |                  |           |     | Remarks  |
| (RNAV / RNP Type)                | Track<br>MAG   | Dist                | Upper limit      | FL series |     | Controlling unit<br>{Airspace class}<br>Remarks          |
|                                  |  |                     | Lower limit      | ↓         | ↑   |  |
|                                  | 287°<br>105°   | 67.2 NM             | FL 510<br>FL 120 | Even      | Odd | ALMATY ACC 132.1 MHZ<br>{C}                              |
| △ OSNER                          | 482119N 0785409E<br><b>AGZ</b><br><b>286.0° 67.2 NM</b><br><b>(2200 FT)</b>                    |                     |                  |           |     |  |
|                                  | 286°<br>104°   | 55.9 NM             | FL 510<br>FL 120 | Even      | Odd | ALMATY ACC 132.1 MHZ<br>{C}                              |
| △ DODEM                          | 484212N 0773614E<br><b>AGZ</b><br><b>285.0° 123.0 NM</b><br><b>(2200 FT)</b>                   |                     |                  |           |     |  |
|                                  | 284°<br>103°   | 40.9 NM             | FL 510<br>FL 120 | Even      | Odd | ALMATY ACC 132.1 MHZ<br>{C}                              |
| △ TAGAL                          | 485638N 0763825E<br><b>KRG</b><br><b>102.0° 135.8 NM</b><br><b>(1800 FT)</b>                   |                     |                  |           |     |  |
|                                  | 283°<br>102°   | 19.2 NM             | FL 510<br>FL 120 | Even      | Odd | ALMATY ACC 132.1 MHZ<br>{C}                              |
| ▲ GORBO<br>(FIR BDRY)            | 490316N 0761100E<br><b>KRG</b><br><b>099.0° 116.9 NM</b><br><b>(1800 FT)</b>                   |                     |                  |           |     |  |
|                                  | 283°<br>102°   | 12.2 NM             | FL 510<br>FL 120 | Even      | Odd | ASTANA ACC 124.1 MHZ<br>{C}                              |
| △ ULKAP                          | 490729N 0755332E<br><b>KRG</b><br><b>101.0° 104.3 NM</b><br><b>(1800 FT)</b>                   |                     |                  |           |     |  |
|                                  | 282°<br>100°   | 60.5 NM             | FL 510<br>FL 120 | Even      | Odd | ASTANA ACC 124.1 MHZ<br>{C}                              |
| △ ARLIH                          | 492724N 0742621E<br><b>KRG</b><br><b>100.0° 43.9 NM</b><br><b>(1800 FT)</b>                    |                     |                  |           |     |  |
|                                  | 280°<br>100°   | 43.9 NM             | FL 510<br>FL 120 | Even      | Odd | ASTANA ACC 124.1 MHZ<br>KARAGANDA TOWER 122.0 MHZ<br>{C} |
| ▲ KARAGANDA<br>DVOR/DME<br>(KRG) | 494114N 0732226E   |                     |                  |           |     |  |
|                                  | 273°<br>091°   | 46.3 NM             | FL 510<br>FL 120 | Even      | Odd | ASTANA ACC 124.1 MHZ<br>KARAGANDA TOWER 122.0 MHZ<br>{C} |
| △ SEHAL                          | 494940N 0721215E<br><b>KRG</b><br><b>271.0° 46.3 NM</b><br><b>(1800 FT)</b>                    |                     |                  |           |     |  |

| Route designator               |  | [Route Usage Notes]  |                            |           |     |   |
|--------------------------------|--|--|----------------------------|-----------|-----|---|
| Significant Point Name         |  | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |                            |           |     | Remarks   |
| (RNAV / RNP Type)              | Track<br>MAG   | Dist   | Upper limit<br>Lower limit | FL series |     | Controlling unit<br>{Airspace class}<br>Remarks |
|                                |  |  |                            | ↓         | ↑   |   |
|                                | 271°<br>090°   | 39.2 NM  | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 124.1 MHZ<br>{C}                     |
| ▲ GURPI                        | 495618N 0711236E<br><b>AST</b><br><b>178.0° 64.4 NM</b><br><b>(1200 FT)</b>  |  |                            |           |     |   |
|                                | 271°<br>090°   | 36.1 NM  | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 124.1 MHZ<br>{C}                     |
| △ RELGO                        | 500234N 0701730E<br><b>AST</b><br><b>207.0° 72.3 NM</b><br><b>(1200 FT)</b>  |  |                            |           |     |   |
|                                | 269°<br>088°   | 37.1 NM  | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 124.1 MHZ<br>{C}                     |
| △ INRIK                        | 500744N 0692030E<br><b>ARK</b><br><b>088.0° 90.1 NM</b><br><b>(1300 FT)</b>  |  |                            |           |     |   |
|                                | 269°<br>088°   | 41.4 NM  | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 124.1 MHZ<br>{C}                     |
| ▲ VAMRI                        | 501330N 0681645E<br><b>ARK</b><br><b>087.0° 48.7 NM</b><br><b>(1300 FT)</b>  |  |                            |           |     |   |
|                                | 267°<br>086°   | 48.7 NM  | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 133.1 MHZ<br>{C}                     |
| ▲ ARKALYK<br>DVOR/DME<br>(ARK) | 501904N 0670118E   |  |                            |           |     |   |
|                                | 263°<br>082°   | 45.0 NM  | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 133.1 MHZ<br>{C}                     |
| ▲ KUSOT                        | 502128N 0655110E<br><b>ARK</b><br><b>262.0° 45.0 NM</b><br><b>(1300 FT)</b>  |  |                            |           |     |   |
|                                | 262°<br>081°   | 59.4 NM  | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 133.1 MHZ<br>{C}                     |
| △ ADEKU                        | 502301N 0641824E<br><b>ARK</b><br><b>261.0° 104.4 NM</b><br><b>(1300 FT)</b> |  |                            |           |     |   |
|                                | 261°<br>080°   | 50.3 NM  | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 133.1 MHZ<br>{C}                     |
| △ EMBEK                        | 502333N 0625947E<br><b>ARK</b><br><b>260.0° 154.7 NM</b><br><b>()</b>        |  |                            |           |     |   |
|                                | 260°<br>079°   | 22.3 NM  | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 133.1 MHZ<br>{C}                     |



| Route designator            | [Route Usage Notes]  |          |                            |           |     |   |
|-----------------------------|--|----------|----------------------------|-----------|-----|---|
| Significant Point Name      | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |          |                            |           |     | Remarks   |
| (RNAV / RNP Type)           | Track<br>MAG   | Dist     | Upper limit<br>Lower limit | FL series |     | Controlling unit<br>{Airspace class}<br>Remarks       |
|                             |  |          |                            | ↓         | ↑   |   |
| ▲ ABIRA<br>(FIR BDRY)       | 502331N 0622455E<br><b>KST</b><br><b>181.0° 173.3 NM</b><br><b>(600 FT)</b>                    |          |                            |           |     |   |
|                             | 259°<br>078°   | 50.6 NM  | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 129.6 MHZ<br>{C}                           |
| △ BESOL                     | 502254N 0610548E<br><b>AKB</b><br><b>078.0° 150.7 NM</b><br><b>(700 FT)</b>                    |          |                            |           |     |   |
|                             | 258°<br>076°   | 104.0 NM | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 129.6 MHZ<br>{C}                           |
| △ LITBA                     | 501849N 0582332E<br><b>AKB</b><br><b>076.0° 46.7 NM</b><br><b>(700 FT)</b>                     |          |                            |           |     |   |
|                             | 256°<br>075°   | 46.7 NM  | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 129.6 MHZ<br>AKTOBE TOWER 120.9 MHZ<br>{C} |
| ▲ AKTOBE DVOR/<br>DME (AKB) | 501548N 0571055E   |          |                            |           |     |   |
|                             | 262°<br>081°   | 43.1 NM  | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 129.6 MHZ<br>AKTOBE TOWER 120.9 MHZ<br>{C} |
| △ LARPI                     | 501721N 0560345E<br><b>AKB</b><br><b>261.0° 43.1 NM</b><br><b>(700 FT)</b>                     |          |                            |           |     |   |
|                             | 261°<br>080°   | 57.7 NM  | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 129.6 MHZ<br>{C}                           |
| ▲ SIVKO                     | 501827N 0543349E<br><b>AKB</b><br><b>260.0° 100.8 NM</b><br><b>(700 FT)</b>                    |          |                            |           |     |   |
|                             | 284°<br>102°   | 82.6 NM  | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 131.4 MHZ<br>{C}                           |
| △ VEVIK                     | 505201N 0523529E<br><b>URL</b><br><b>102.0° 43.1 NM</b><br><b>(200 FT)</b>                     |          |                            |           |     |   |
|                             | 283°<br>102°   | 43.2 NM  | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 131.4 MHZ<br>URALSK TOWER 119.7 MHZ<br>{C} |
| ▲ URALSK DVOR/<br>DME (URL) | 510855N 0513238E   |          |                            |           |     |   |
|                             | 288°<br>107°   | 42.7 NM  | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 131.4 MHZ<br>URALSK TOWER 119.7 MHZ<br>{C} |

| Route designator       | [Route Usage Notes]  |      |                            |                    |   |
|------------------------|--|------|----------------------------|--------------------|---|
| Significant Point Name | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |      |                            |                    | Remarks   |
| (RNAV / RNP Type)      | Track<br>MAG   | Dist | Upper limit<br>Lower limit | FL series<br>↓   ↑ | Controlling unit<br>{Airspace class}<br>Remarks |
| ▲ ARISA<br>(FIR BDRY)  | 512924N 0503254E<br><b>URL</b><br><b>288.0° 42.7 NM</b><br><b>(200 FT)</b>                     |      |                            |                    | <b>For Continuation, see AIP Russia</b>         |

| Route designator               | [Route Usage Notes]  |         |                            |                    |   |
|--------------------------------|--|---------|----------------------------|--------------------|---|
| Significant Point Name         | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |         |                            |                    | Remarks   |
| (RNAV / RNP Type)              | Track<br>MAG   | Dist    | Upper limit<br>Lower limit | FL series<br>↓   ↑ | Controlling unit<br>{Airspace class}<br>Remarks |
| <b>M168</b><br><b>(RNAV 5)</b> |  |         |                            |                    |   |
| ▲ NETAT                        | 403653N 0682413E<br><b>SMK</b><br><b>198.0° 115.3 NM</b><br><b>(1400 FT)</b>                   |         |                            |                    | <b>Before, see AIP Uzbekistan</b>               |
|                                | 041°<br>221°   | 11.1 NM | FL 510<br>FL 30            | Odd   Even         | TASHKENT ACC<br>{C}                             |
| ▲ IPRAR                        | 404431N 0683447E<br><b>SMK</b><br><b>195.0° 105.2 NM</b><br><b>(1400 FT)</b>                   |         |                            |                    | <b>For continuation, see AIP Uzbekistan</b>     |

| Route designator               | [Route Usage Notes]  |        |                            |                    |   |
|--------------------------------|--|--------|----------------------------|--------------------|---|
| Significant Point Name         | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |        |                            |                    | Remarks   |
| (RNAV / RNP Type)              | Track<br>MAG   | Dist   | Upper limit<br>Lower limit | FL series<br>↓   ↑ | Controlling unit<br>{Airspace class}<br>Remarks |
| <b>M168</b><br><b>(RNAV 5)</b> |  |        |                            |                    |   |
| ▲ ABGEN                        | 405742N 0684248E<br><b>SMK</b><br><b>195.0° 90.7 NM</b><br><b>(1400 FT)</b>                    |        |                            |                    | <b>Before, see AIP Uzbekistan</b>               |
|                                | 003°<br>183°   | 9.5 NM | FL 510<br>FL 60            | Odd   Even         | TASHKENT ACC<br>{C}                             |
| ▲ ABEKA                        | 410705N 0684442E<br><b>SMK</b><br><b>196.0° 81.5 NM</b><br><b>(1400 FT)</b>                    |        |                            |                    |   |

| Route designator       | [Route Usage Notes]  |         |                            |           |         |  |
|------------------------|--|---------|----------------------------|-----------|---------|--|
| Significant Point Name | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |         |                            |           | Remarks |  |
| (RNAV / RNP Type)      | Track<br>MAG   | Dist    | Upper limit<br>Lower limit | FL series |         | Controlling unit<br>{Airspace class}<br>Remarks            |
|                        |  |         |                            | ↓         | ↑       |  |
|                        | 003°<br>183°   | 16.1 NM | FL 510<br>FL 70            | Odd       | Even    | TASHKENT ACC<br>{C}  |
| ▲ DODUR<br>(FIR BDRY)  | 412300N 0684800E<br><b>SMK</b><br><b>200.0° 65.9 NM</b><br><b>(1400 FT)</b>                    |         |                            |           |         |  |
|                        | 320°<br>139°   | 47.4 NM | FL 510<br>FL 70            | Even      | Odd     | SHYMKENT ACC 132.7 MHZ<br>{C}                              |
| ▲ MIKNO                | 420200N 0681200E<br><b>SMK</b><br><b>243.0° 59.0 NM</b><br><b>(1400 FT)</b>                    |         |                            |           |         |  |
|                        | 360°<br>180°   | 22.5 NM | FL 510<br>FL 120           | Odd       | Even    | SHYMKENT ACC 132.7 MHZ<br>{C}                              |
| ▲ LUZMI                | 422426N 0681456E<br><b>SMK</b><br><b>266.0° 53.1 NM</b><br><b>(1400 FT)</b>                    |         |                            |           |         |  |
|                        | 360°<br>179°   | 25.1 NM | FL 510<br>FL 120           | Odd       | Even    | SHYMKENT ACC 132.7 MHZ<br>TURKISTAN TOWER 131.3 MHZ<br>{C} |
| △ RELRU                | 424925N 0681812E<br><b>TRK</b><br><b>195.0° 32.5 NM</b><br><b>(1000 FT)</b>                    |         |                            |           |         |  |
|                        | 359°<br>179°   | 28.7 NM | FL 510<br>FL 120           | Even      | Odd     | SHYMKENT ACC 132.7 MHZ<br>TURKISTAN TOWER 131.3 MHZ<br>{C} |
| ▲ GENDI                | 431800N 0682200E<br><b>TRK</b><br><b>254.0° 9.4 NM</b><br><b>(1000 FT)</b>                     |         |                            |           |         |  |
|                        | 348°<br>168°   | 20.3 NM | FL 510<br>FL 120           | Even      | Odd     | SHYMKENT ACC 127.3 MHZ<br>TURKISTAN TOWER 131.3 MHZ<br>{C} |
| ▲ GOBOR                | 433811N 0681918E<br><b>TRK</b><br><b>323.0° 21.8 NM</b><br><b>(1000 FT)</b>                    |         |                            |           |         |  |
|                        | 348°<br>168°   | 30.5 NM | FL 510<br>9000 FT ALT      | Even      | Odd     | SHYMKENT ACC 127.3 MHZ<br>TURKISTAN TOWER 131.3 MHZ<br>{C} |

| Route designator                  |  | [Route Usage Notes] |                            |           |         |   |
|-----------------------------------|--|---------------------|----------------------------|-----------|---------|---|
| Significant Point Name            | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |                     |                            |           | Remarks |   |
| (RNAV / RNP Type)                 | Track<br>MAG   | Dist                | Upper limit<br>Lower limit | FL series |         | Controlling unit<br>{Airspace class}<br>Remarks           |
|                                   |  |                     |                            | ↓         | ↑       |   |
| △ TIMKA                           | 440832N 0681511E<br><b>TRK</b><br><b>337.0° 51.0 NM</b><br><b>(1000 FT)</b>                    |                     |                            |           |         |   |
|                                   | 348°<br>168°   | 18.6 NM             | FL 510<br>FL 120           | Even      | Odd     | SHYMKENT ACC 127.3 MHZ<br>{C}                             |
| △ REMOL                           | 442704N 0681238E<br><b>TRK</b><br><b>340.0° 69.4 NM</b><br><b>(1000 FT)</b>                    |                     |                            |           |         |   |
|                                   | 348°<br>167°   | 91.4 NM             | FL 510<br>FL 120           | Even      | Odd     | SHYMKENT ACC 127.3 MHZ<br>{C}                             |
| ▲ BETPU<br>(FIR BDRY)             | 455758N 0675945E<br><b>DZG</b><br><b>166.0° 105.8 NM</b><br><b>(1300 FT)</b>                   |                     |                            |           |         |   |
|                                   | 347°<br>166°   | 34.8 NM             | FL 510<br>FL 120           | Even      | Odd     | ASTANA ACC 132.5 MHZ<br>{C}                               |
| △ ELSEB                           | 463234N 0675439E<br><b>DZG</b><br><b>166.0° 71.0 NM</b><br><b>(1300 FT)</b>                    |                     |                            |           |         |   |
|                                   | 348°<br>168°   | 27.7 NM             | FL 510<br>FL 120           | Even      | Odd     | ASTANA ACC 132.5 MHZ<br>{C}                               |
| △ BURIK                           | 470012N 0675152E<br><b>DZG</b><br><b>166.0° 43.3 NM</b><br><b>(1300 FT)</b>                    |                     |                            |           |         |   |
|                                   | 346°<br>166°   | 43.3 NM             | FL 510<br>FL 120           | Even      | Odd     | ASTANA ACC 132.5 MHZ<br>ZHEZKAZGAN TOWER 127.1 MHZ<br>{C} |
| ▲ ZHEZKAZGAN<br>DVOR/DME<br>(DZG) | 474317N 0674542E   |                     |                            |           |         |   |
|                                   | 340°<br>160°   | 43.1 NM             | FL 510<br>FL 120           | Even      | Odd     | ASTANA ACC 132.5 MHZ<br>ZHEZKAZGAN TOWER 127.1 MHZ<br>{C} |
| △ BEDOR                           | 482529N 0673251E<br><b>DZG</b><br><b>340.0° 43.1 NM</b><br><b>(1300 FT)</b>                    |                     |                            |           |         |   |
|                                   | 339°<br>158°   | 24.2 NM             | FL 510<br>FL 120           | Even      | Odd     | ASTANA ACC 132.5 MHZ<br>{C}                               |

| Route designator             | [Route Usage Notes]  |          |                            |           |     |   |
|------------------------------|--|----------|----------------------------|-----------|-----|---|
| Significant Point Name       | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |          |                            |           |     | Remarks   |
| (RNAV / RNP Type)            | Track<br>MAG   | Dist     | Upper limit<br>Lower limit | FL series |     | Controlling unit<br>{Airspace class}<br>Remarks |
|                              |  |          |                            | ↓         | ↑   |   |
| △ GORIM                      | 484905N 0672456E<br><b>DZG</b><br><b>339.0° 67.3 NM</b><br><b>(1300 FT)</b>                    |          |                            |           |     |   |
|                              | 342°<br>161°   | 70.0 NM  | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 132.5 MHZ<br>{C}                     |
| ▲ EDETO                      | 495808N 0670732E<br><b>ARK</b><br><b>159.0° 21.3 NM</b><br><b>(1300 FT)</b>                    |          |                            |           |     |   |
|                              | 339°<br>159°   | 21.3 NM  | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 133.1 MHZ<br>{C}                     |
| ▲ ARKALYK DVOR/<br>DME (ARK) | 501904N 0670118E   |          |                            |           |     |   |
|                              | 329°<br>145°   | 157.9 NM | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 133.1 MHZ<br>{C}                     |
| △ GITNA                      | 524459N 0652518E<br><b>KST</b><br><b>100.0° 72.4 NM</b><br><b>(600 FT)</b>                     |          |                            |           |     |   |
|                              | 325°<br>143°   | 103.4 NM | FL 510<br>FL 210           | Even      | Odd | ASTANA ACC 133.1 MHZ<br>{C}                     |
| ▲ NELTI<br>(FIR BDRY)        | 541942N 0641630E<br><b>KST</b><br><b>008.0° 73.1 NM</b><br><b>(600 FT)</b>                     |          |                            |           |     | <b>For continuation, see AIP<br/>Russia</b>     |

| Route designator            | [Route Usage Notes]  |         |                            |           |      |   |
|-----------------------------|--|---------|----------------------------|-----------|------|---|
| Significant Point Name      | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |         |                            |           |      | Remarks   |
| (RNAV / RNP Type)           | Track<br>MAG   | Dist    | Upper limit<br>Lower limit | FL series |      | Controlling unit<br>{Airspace class}<br>Remarks       |
|                             |  |         |                            | ↓         | ↑    |   |
| M199<br>(RNAV 5)            |  |         |                            |           |      |   |
| ▲ MULTA<br>(FIR BDRY)       | 510442N 0565042E<br><b>AKB</b><br><b>335.0° 50.6 NM</b><br><b>(700 FT)</b>                     |         |                            |           |      | <b>Before, see AIP Russia</b>                         |
|                             | 154°<br>335°   | 50.6 NM | FL 510<br>FL 120           | Odd       | Even | AKTOBE ACC 129.6 MHZ<br>AKTOBE TOWER 120.9 MHZ<br>{C} |
| ▲ AKTOBE DVOR/<br>DME (AKB) | 501548N 0571055E   |         |                            |           |      |   |

| Route designator       | [Route Usage Notes]  |          |                            |           |         |   |
|------------------------|--|----------|----------------------------|-----------|---------|---|
| Significant Point Name | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |          |                            |           | Remarks |   |
| (RNAV / RNP Type)      | Track<br>MAG   | Dist     | Upper limit<br>Lower limit | FL series |         | Controlling unit<br>{Airspace class}<br>Remarks       |
|                        |  |          |                            | ↓         | ↑       |   |
|                        | 131°<br>312°   | 42.0 NM  | FL 510<br>FL 120           | Odd       | Even    | AKTOBE ACC 129.6 MHZ<br>AKTOBE TOWER 120.9 MHZ<br>{C} |
| △ ODILA                | 494259N 0575122E<br><b>AKB</b><br><b>131.0° 41.9 NM</b><br><b>(700 FT)</b>                     |          |                            |           |         |   |
|                        | 132°<br>312°   | 27.0 NM  | FL 510<br>FL 120           | Odd       | Even    | AKTOBE ACC 129.6 MHZ<br>{C}                           |
| △ KEKUN                | 492143N 0581653E<br><b>AKB</b><br><b>131.0° 69.0 NM</b><br><b>(700 FT)</b>                     |          |                            |           |         |   |
|                        | 132°<br>313°   | 37.6 NM  | FL 510<br>FL 120           | Odd       | Even    | AKTOBE ACC 129.6 MHZ<br>{C}                           |
| △ RILBA                | 485158N 0585148E<br><b>AKB</b><br><b>132.0° 106.6 NM</b><br><b>(700 FT)</b>                    |          |                            |           |         |   |
|                        | 133°<br>314°   | 69.7 NM  | FL 510<br>FL 120           | Odd       | Even    | AKTOBE ACC 129.6 MHZ<br>{C}                           |
| ▲ RESDO                | 475618N 0595446E<br><b>ARL</b><br><b>304.0° 96.4 NM</b><br><b>(300 FT)</b>                     |          |                            |           |         |   |
|                        | 134°<br>314°   | 14.6 NM  | FL 510<br>FL 120           | Odd       | Even    | AKTOBE ACC 119 MHZ<br>{C}                             |
| △ ARSAN                | 474436N 0600738E<br><b>ARL</b><br><b>303.0° 82.1 NM</b><br><b>(300 FT)</b>                     |          |                            |           |         |   |
|                        | 134°<br>317°   | 114.0 NM | FL 510<br>FL 120           | Odd       | Even    | AKTOBE ACC 119 MHZ<br>{C}                             |
| ▲ AVLAK<br>(FIR BDRY)  | 461214N 0614508E<br><b>ARL</b><br><b>163.0° 37.7 NM</b><br><b>(300 FT)</b>                     |          |                            |           |         |   |
|                        | 137°<br>317°   | 27.3 NM  | FL 510<br>FL 120           | Odd       | Even    | SHYMKENT ACC 127.3 MHZ<br>{C}                         |
| ▲ INKUM                | 454952N 0620739E<br><b>ARL</b><br><b>151.0° 63.3 NM</b><br><b>(300 FT)</b>                     |          |                            |           |         |   |

| Route designator       |  | [Route Usage Notes] |                  |           |      |   |  |
|------------------------|--|---------------------|------------------|-----------|------|---|--|
| Significant Point Name | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |                     |                  |           |      | Remarks   |  |
| (RNAV / RNP Type)      | Track<br>MAG   | Dist                | Upper limit      | FL series |      | Controlling unit<br>{Airspace class}<br>Remarks |  |
|                        |  |                     | Lower limit      | ↓         | ↑    |   |  |
| M610<br>(RNAV 5)       |  |                     |                  |           |      |   |  |
| ▲ AZABI<br>(FIR BDRY)  | 444424N 0493000E<br><b>AKT</b><br><b>301.0° 85.2 NM</b><br><b>(100 FT)</b>                     |                     |                  |           |      | <b>Before, see AIP Russia</b>                   |  |
|                        | 069°<br>251°   | 123.4 NM            | FL 510<br>FL 120 | Odd       | Even | AKTOBE ACC 134.3 MHZ<br>{C}                     |  |
| ▲ LARoz                | 451010N 0521956E<br><b>AKT</b><br><b>027.0° 95.0 NM</b><br><b>(100 FT)</b>                     |                     |                  |           |      |   |  |
|                        | 071°<br>252°   | 62.4 NM             | FL 510<br>FL 120 | Odd       | Even | AKTOBE ACC 119.8 MHZ<br>{C}                     |  |
| ▲ ANIGA                | 452130N 0534647E<br><b>BNU</b><br><b>262.0° 56.8 NM</b><br><b>(0 FT)</b>                       |                     |                  |           |      |   |  |
|                        | 073°<br>255°   | 165.5 NM            | FL 510<br>FL 120 | Odd       | Even | AKTOBE ACC 119.8 MHZ<br>{C}                     |  |
| ▲ DIVNO                | 454418N 0574000E<br><b>BNU</b><br><b>070.0° 109.9 NM</b><br><b>(0 FT)</b>                      |                     |                  |           |      |   |  |
|                        | 089°<br>271°   | 132.1 NM            | FL 510<br>FL 120 | Odd       | Even | AKTOBE ACC 119 MHZ<br>{C}                       |  |
| ▲ MILSO<br>(FIR BDRY)  | 452519N 0604609E<br><b>ARL</b><br><b>194.0° 91.4 NM</b><br><b>(300 FT)</b>                     |                     |                  |           |      |   |  |
|                        | 092°<br>273°   | 47.0 NM             | FL 510<br>FL 120 | Odd       | Even | SHYMKENT ACC 127.3 MHZ<br>{C}                   |  |
| △ OLINA                | 451645N 0615140E<br><b>ARL</b><br><b>165.0° 93.4 NM</b><br><b>(300 FT)</b>                     |                     |                  |           |      |   |  |
|                        | 093°<br>274°   | 29.9 NM             | FL 510<br>FL 120 | Odd       | Even | SHYMKENT ACC 127.3 MHZ<br>{C}                   |  |
| ▲ TUKNA                | 451058N 0623308E<br><b>ARL</b><br><b>150.0° 106.1 NM</b><br><b>(300 FT)</b>                    |                     |                  |           |      |   |  |
|                        | 094°<br>275°   | 41.0 NM             | FL 510<br>FL 120 | Odd       | Even | SHYMKENT ACC 127.3 MHZ<br>{C}                   |  |
| ▲ UNITO                | 450238N 0632952E<br><b>KZO</b><br><b>275.0° 90.6 NM</b><br><b>(500 FT)</b>                     |                     |                  |           |      |   |  |

| Route designator                 |   | [Route Usage Notes]  |                            |           |      |  |  |
|----------------------------------|---|--|----------------------------|-----------|------|--|--|
| Significant Point Name           |   | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |                            |           |      | Remarks  |  |
| (RNAV / RNP Type)                | Track<br>MAG  | Dist   | Upper limit<br>Lower limit | FL series |      | Controlling unit<br>{Airspace class}<br>Remarks        |  |
|                                  |   |  |                            | ↓         | ↑    |  |  |
|                                  | 095°<br>275°  | 48.7 NM  | FL 510<br>FL 120           | Odd       | Even | SHYMKENT ACC 127.3 MHZ<br>{C}                          |  |
| △ NATUS                          | 445208N 0643650E<br><b>KZO</b><br><b>277.0° 41.9 NM</b><br><b>(500 FT)</b>  |  |                            |           |      |  |  |
|                                  | 096°<br>276°  | 11.8 NM  | FL 510<br>FL 120           | Odd       | Even | SHYMKENT ACC 127.3 MHZ<br>KYZYLORDA TOWER 120.9<br>{C} |  |
| △ GIGUR                          | 444920N 0645300E<br><b>KZO</b><br><b>277.0° 30.1 NM</b><br><b>(500 FT)</b>  |  |                            |           |      |  |  |
|                                  | 097°<br>278°  | 30.1 NM  | FL 510<br>FL 120           | Odd       | Even | SHYMKENT ACC 127.3 MHZ<br>KYZYLORDA TOWER 120.9<br>{C} |  |
| ▲ KYZYLORDA<br>DVOR/DME<br>(KZO) | 444145N 0653349E  |  |                            |           |      |  |  |
|                                  | 097°<br>278°  | 44.5 NM  | FL 510<br>FL 120           | Odd       | Even | SHYMKENT ACC 127.3 MHZ<br>KYZYLORDA TOWER 120.9<br>{C} |  |
| △ RINET                          | 443026N 0663402E<br><b>KZO</b><br><b>098.0° 44.5 NM</b><br><b>(500 FT)</b>  |  |                            |           |      |  |  |
|                                  | 099°<br>280°  | 43.1 NM  | FL 510<br>FL 120           | Odd       | Even | SHYMKENT ACC 127.3 MHZ<br>{C}                          |  |
| △ BIMDO                          | 441809N 0673135E<br><b>TRK</b><br><b>315.0° 74.3 NM</b><br><b>(1000 FT)</b> |  |                            |           |      |  |  |
|                                  | 100°<br>281°  | 32.8 NM  | FL 510<br>FL 120           | Odd       | Even | SHYMKENT ACC 127.3 MHZ<br>{C}                          |  |
| △ TIMKA                          | 440832N 0681511E<br><b>TRK</b><br><b>337.0° 51.0 NM</b><br><b>(1000 FT)</b> |  |                            |           |      |  |  |
|                                  | 101°<br>281°  | 22.8 NM  | FL 510<br>FL 120           | Odd       | Even | SHYMKENT ACC 127.3 MHZ<br>{C}                          |  |
| ▲ LIMTO                          | 440138N 0684518E<br><b>TRK</b><br><b>004.0° 42.8 NM</b><br><b>(1000 FT)</b> |  |                            |           |      |  |  |
|                                  | 101°<br>283°  | 96.5 NM  | FL 510<br>FL 120           | Odd       | Even | SHYMKENT ACC 132.7 MHZ<br>{C}                          |  |
| ▲ ARBOL                          | 433055N 0705137E<br><b>TAR</b><br><b>329.0° 42.9 NM</b><br><b>(2200 FT)</b> |  |                            |           |      |  |  |



| Route designator       |  | [Route Usage Notes] |                  |           |      |  |
|------------------------|--|---------------------|------------------|-----------|------|--|
| Significant Point Name | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |                     |                  |           |      | Remarks  |
| (RNAV / RNP Type)      | Track<br>MAG   | Dist                | Upper limit      | FL series |      | Controlling unit<br>{Airspace class}<br>Remarks          |
|                        |  |                     | Lower limit      | ↓         | ↑    |  |
|                        | 078°<br>260°   | 126.4 NM            | FL 510<br>FL 120 | Odd       | Even | SHYMKENT ACC 132.7 MHZ<br>{C}                            |
| ▲ TOMGO                | 434146N 0734454E<br><b>TAR</b><br><b>060.0° 118.9 NM</b><br><b>(2200 FT)</b>                   |                     |                  |           |      |  |
|                        | 086°<br>267°   | 19.6 NM             | FL 510<br>FL 120 | Odd       | Even | SHYMKENT ACC 132.7 MHZ<br>{C}                            |
| ▲ BERV<br>(FIR BDRY)   | 434059N 0741156E<br><b>ATA</b><br><b>274.2° 127.3 NM</b><br><b>(2200 FT)</b>                   |                     |                  |           |      |  |
|                        | 087°<br>268°   | 58.1 NM             | FL 510<br>FL 120 | Odd       | Even | ALMATY ACC 131.4 MHZ<br>{C}                              |
| △ TIPSA                | 433809N 0753149E<br><b>ATA</b><br><b>278.4° 69.7 NM</b><br><b>(2200 FT)</b>                    |                     |                  |           |      |  |
|                        | 088°<br>268°   | 34.8 NM             | FL 510<br>FL 120 | Odd       | Even | ALMATY ACC 131.4 MHZ<br>ALMATY APPROACH 124.8 MHZ<br>{C} |
| ▲ USUGA                | 433600N 0761934E<br><b>ATA</b><br><b>287.3° 35.8 NM</b><br><b>(2200 FT)</b>                    |                     |                  |           |      |  |
|                        | 085°<br>265°   | 21.0 NM             | FL 510<br>FL 120 | Odd       | Even | ALMATY ACC 131.4 MHZ<br>ALMATY APPROACH 124.8 MHZ<br>{C} |
| △ UNADA                | 433551N 0764831E<br><b>ATA</b><br><b>312.8° 18.0 NM</b><br><b>(2200 FT)</b>                    |                     |                  |           |      |  |
|                        | 085°<br>266°   | 6.6 NM              | FL 510<br>FL 120 | Odd       | Even | ALMATY ACC 131.4 MHZ<br>ALMATY APPROACH 124.8 MHZ<br>{C} |
| △ BEDUR                | 433546N 0765739E<br><b>ATA</b><br><b>332.7° 14.3 NM</b><br><b>(2200 FT)</b>                    |                     |                  |           |      |  |
|                        | 085°<br>266°   | 8.6 NM              | FL 510<br>FL 120 | Odd       | Even | ALMATY ACC 131.4 MHZ<br>ALMATY APPROACH 124.8 MHZ<br>{C} |
| △ PEKIR                | 433539N 0770931E<br><b>ATA</b><br><b>008.5° 13.5 NM</b><br><b>(2200 FT)</b>                    |                     |                  |           |      |  |
|                        | 087°<br>268°   | 15.3 NM             | FL 510<br>FL 120 | Odd       | Even | ALMATY ACC 131.4 MHZ<br>ALMATY APPROACH 124.8 MHZ<br>{C} |

| Route designator       | [Route Usage Notes]  |         |                            |                    |  |
|------------------------|--|---------|----------------------------|--------------------|--|
| Significant Point Name | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |         |                            |                    | Remarks  |
| (RNAV / RNP Type)      | Track<br>MAG   | Dist    | Upper limit<br>Lower limit | FL series<br>↓   ↑ | Controlling unit<br>{Airspace class}<br>Remarks          |
| △ TIRBA                | 433456N 0773031E<br><b>ATA</b><br><b>050.8° 22.3 NM</b><br><b>(2200 FT)</b>                    |         |                            |                    |  |
|                        | 086°<br>266°   | 24.3 NM | FL 510<br>FL 120           | Odd   Even         | ALMATY ACC 131.4 MHZ<br>ALMATY APPROACH 124.8 MHZ<br>{C} |
| △ PIGAL                | 433428N 0780356E<br><b>ATA</b><br><b>068.9° 44.5 NM</b><br><b>(2200 FT)</b>                    |         |                            |                    |  |
|                        | 086°<br>267°   | 51.7 NM | FL 510<br>FL 120           | Odd   Even         | ALMATY ACC 131.4 MHZ<br>{C}                              |
| ▲ BASPI                | 433257N 0791501E<br><b>JRK</b><br><b>212.0° 51.0 NM</b><br><b>(2600 FT)</b>                    |         |                            |                    |  |
|                        | 087°<br>268°   | 24.3 NM | FL 510<br>FL 120           | Odd   Even         | ALMATY ACC 131.4 MHZ<br>{C}                              |
| ▲ BERTO                | 433159N 0794824E<br><b>JRK</b><br><b>184.0° 42.2 NM</b><br><b>(2600 FT)</b>                    |         |                            |                    |  |
|                        | 088°<br>269°   | 40.5 NM | FL 510<br>FL 140           | Odd   Even         | ALMATY ACC 131.4 MHZ<br>{C}                              |
| ▲ RULAD<br>(FIR BDRY)  | 433001N 0804359E<br><b>JRK</b><br><b>138.0° 55.2 NM</b><br><b>(2600 FT)</b>                    |         |                            |                    | <b>For continuation, see AIP China</b>                   |

| Route designator        | [Route Usage Notes]  |         |                            |                    |   |
|-------------------------|--|---------|----------------------------|--------------------|---|
| Significant Point Name  | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |         |                            |                    | Remarks   |
| (RNAV / RNP Type)       | Track<br>MAG   | Dist    | Upper limit<br>Lower limit | FL series<br>↓   ↑ | Controlling unit<br>{Airspace class}<br>Remarks |
| <b>M618</b><br>(RNAV 5) | <small>(S) For Continuation, see AIP Russia</small>  |         |                            |                    |   |
| ▲ UML0D                 | 432218N 0750715E<br><b>ATA</b><br><b>265.4° 85.9 NM</b><br><b>(2200 FT)</b>                    |         |                            |                    |   |
|                         | 033°<br>213°   | 47.0 NM | FL 510<br>FL 120           | Odd   Even         | ALMATY ACC 131.4 MHZ<br>{C}                     |
| ▲ AGUNA                 | 435906N 0754739E<br><b>ATA</b><br><b>298.4° 67.1 NM</b><br><b>(2200 FT)</b>                    |         |                            |                    |   |

| Route designator       |  | [Route Usage Notes] |                  |           |      |   |
|------------------------|--|---------------------|------------------|-----------|------|---|
| Significant Point Name | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |                     |                  |           |      | Remarks   |
| (RNAV / RNP Type)      | Track<br>MAG   | Dist                | Upper limit      | FL series |      | Controlling unit<br>{Airspace class}<br>Remarks |
|                        |  |                     | Lower limit      | ↓         | ↑    |   |
|                        | 035°<br>216°   | 185.0 NM            | FL 510<br>FL 210 | Odd       | Even | ALMATY ACC 133.1 MHZ<br>{C}                     |
| ▲ LIPSI                | 461808N 0784001E<br><b>TDK</b><br><b>002.0° 72.5 NM</b><br><b>(2000 FT)</b>                    |                     |                  |           |      |   |
|                        | 038°<br>219°   | 70.3 NM             | FL 510<br>FL 210 | Odd       | Even | ALMATY ACC 132.1 MHZ<br>{C}                     |
| △ GOMAL                | 470809N 0795150E<br><b>AGZ</b><br><b>200.0° 53.4 NM</b><br><b>(2200 FT)</b>                    |                     |                  |           |      |   |
|                        | 039°<br>220°   | 54.3 NM             | FL 510<br>FL 120 | Odd       | Even | ALMATY ACC 132.1 MHZ<br>{C}                     |
| △ BANUM                | 474633N 0804834E<br><b>AGZ</b><br><b>296.3° 17.3 NM</b><br><b>(2200 FT)</b>                    |                     |                  |           |      |   |
|                        | 039°<br>221°   | 132.6 NM            | FL 510<br>FL 120 | Odd       | Even | ALMATY ACC 132.1 MHZ<br>{C}                     |
| ▲ NEMEG                | 491804N 0831242E<br><b>UKM</b><br><b>332.4° 51.4 NM</b><br><b>(1000 FT)</b>                    |                     |                  |           |      |   |
|                        | 042°<br>223°   | 78.3 NM             | FL 510<br>FL 120 | Odd       | Even | ALMATY ACC 132.1 MHZ<br>{C}                     |
| ▲ GOMIR<br>(FIR BDRY)  | 501042N 0844206E<br><b>UKM</b><br><b>079.0° 85.2 NM</b><br><b>(1000 FT)</b>                    |                     |                  |           |      | <b>For Continuation, see AIP<br/>Russia</b>     |

| Route designator       |  | [Route Usage Notes] |                              |           |         |   |
|------------------------|--|---------------------|------------------------------|-----------|---------|---|
| Significant Point Name | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |                     |                              |           | Remarks |   |
| (RNAV / RNP Type)      | Track<br>MAG   | Dist                | Upper limit                  | FL series |         | Controlling unit<br>{Airspace class}<br>Remarks |
|                        |  |                     | Lower limit                  | ↓         | ↑       |   |
| M741<br>(RNAV 5)       |  |                     |                              |           |         |   |
| ▲ ASLOK                | 410548N 0671954E<br><b>SMK</b><br><b>224.0° 121.8 NM</b><br><b>(1400 FT)</b>                   |                     |                              |           |         | <b>Before, see AIP Uzbekistan</b>               |
|                        | 345°<br>165°   | 36.2 NM             | <div>FL 510<br/>FL 210</div> | Even      | Odd     | SHYMKENT ACC 132.7 MHZ<br>{C}                   |

| Route designator       | [Route Usage Notes]  |          |                            |                       |         |   |
|------------------------|--|----------|----------------------------|-----------------------|---------|---|
| Significant Point Name | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |          |                            |                       | Remarks |   |
| (RNAV / RNP Type)      | Track<br>MAG   | Dist     | Upper limit<br>Lower limit | FL series<br>↓      ↑ |         | Controlling unit<br>{Airspace class}<br>Remarks |
| ▲ RITAL<br>(FIR BDRY)  | 414130N 0671206E<br><b>SMK</b><br><b>241.0° 108.2 NM</b><br><b>(1400 FT)</b>                   |          |                            |                       |         |   |
|                        | 341°<br>160°   | 80.5 NM  | FL 510<br>FL 120           | Even                  | Odd     | SHYMKENT ACC 132.7 MHZ<br>{C}                   |
| ▲ PAVEL                | 425947N 0664642E<br><b>TRK</b><br><b>249.0° 81.5 NM</b><br><b>(1000 FT)</b>                    |          |                            |                       |         |   |
|                        | 343°<br>163°   | 16.2 NM  | FL 510<br>FL 120           | Even                  | Odd     | SHYMKENT ACC 132.7 MHZ<br>{C}                   |
| ▲ GEKSO                | 431544N 0664228E<br><b>TRK</b><br><b>260.0° 82.1 NM</b><br><b>(1000 FT)</b>                    |          |                            |                       |         |   |
|                        | 343°<br>162°   | 63.3 NM  | FL 510<br>FL 150           | Even                  | Odd     | SHYMKENT ACC 127.3 MHZ<br>{C}                   |
| △ GITIM                | 441752N 0662540E<br><b>KZO</b><br><b>116.0° 44.1 NM</b><br><b>(500 FT)</b>                     |          |                            |                       |         |   |
|                        | 344°<br>163°   | 105.2 NM | FL 510<br>FL 150           | Even                  | Odd     | SHYMKENT ACC 127.3 MHZ<br>{C}                   |
| △ ANIGO                | 460143N 0660207E<br><b>KZO</b><br><b>007.0° 82.4 NM</b><br><b>(500 FT)</b>                     |          |                            |                       |         |   |
|                        | 343°<br>162°   | 43.3 NM  | FL 510<br>FL 150           | Even                  | Odd     | SHYMKENT ACC 127.3 MHZ<br>{C}                   |
| ▲ LUGER<br>(FIR BDRY)  | 464426N 0655200E<br><b>DZG</b><br><b>223.0° 97.3 NM</b><br><b>(1300 FT)</b>                    |          |                            |                       |         |   |
|                        | 339°<br>157°   | 160.6 NM | FL 510<br>FL 120           | Even                  | Odd     | ASTANA ACC 132.5 MHZ<br>{C}                     |
| △ ARBIM                | 492045N 0645739E<br><b>ARK</b><br><b>223.0° 99.1 NM</b><br><b>(1300 FT)</b>                    |          |                            |                       |         |   |
|                        | 338°<br>157°   | 47.4 NM  | FL 510<br>FL 120           | Even                  | Odd     | ASTANA ACC 132.5 MHZ<br>{C}                     |
| ▲ LAMGI                | 500657N 0644154E<br><b>ARK</b><br><b>251.0° 90.3 NM</b><br><b>(1300 FT)</b>                    |          |                            |                       |         |   |
|                        | 337°<br>156°   | 87.3 NM  | FL 510<br>FL 120           | Even                  | Odd     | ASTANA ACC 133.1 MHZ<br>{C}                     |

| Route designator                |              | [Route Usage Notes]  |                            |           |     |   |  |
|---------------------------------|--------------|--|----------------------------|-----------|-----|---|--|
| Significant Point Name          |              | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |                            |           |     | Remarks   |  |
| (RNAV / RNP Type)               | Track<br>MAG | Dist   | Upper limit<br>Lower limit | FL series |     | Controlling unit<br>{Airspace class}<br>Remarks         |  |
|                                 |              |  |                            | ↓         | ↑   |   |  |
| △ NARUR                         |              | 513200N 0641130E   |                            |           |     |   |  |
|                                 |              | <b>KST</b><br><b>155.0° 102.0 NM</b><br><b>(600 FT)</b>  |                            |           |     |   |  |
|                                 | 336°<br>155° | 43.4 NM  | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 133.1 MHZ<br>{C}                             |  |
| △ BALOK                         |              | 521416N 0635540E   |                            |           |     |   |  |
|                                 |              | <b>KST</b><br><b>155.0° 58.6 NM</b><br><b>(600 FT)</b>   |                            |           |     |   |  |
|                                 | 335°<br>155° | 58.6 NM  | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 133.1 MHZ<br>KOSTANAY TOWER 129.3 MHZ<br>{C} |  |
| ▲ KOSTANAY<br>DVOR/DME<br>(KST) |              | 531113N 0633346E   |                            |           |     |   |  |
|                                 | 318°<br>137° | 63.0 NM  | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 133.1 MHZ<br>KOSTANAY TOWER 129.3 MHZ<br>{C} |  |
| ▲ LANOR<br>(FIR BDRY)           |              | 540536N 0624042E   |                            |           |     | <b>For continuation, see AIP<br/>Russia</b>             |  |
|                                 |              | <b>KST</b><br><b>318.0° 63.0 NM</b><br><b>(600 FT)</b>   |                            |           |     |   |  |

| Route designator       |  | [Route Usage Notes]   |                            |           |         |   |
|------------------------|--|---|----------------------------|-----------|---------|---|
| Significant Point Name | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |   |                            |           | Remarks |   |
| (RNAV / RNP Type)      | Track<br>MAG   | Dist  | Upper limit<br>Lower limit | FL series |         | Controlling unit<br>{Airspace class}<br>Remarks |
|                        |  |   |                            | ↓         | ↑       |   |
| M875<br>(RNAV 5)       |  |   |                            |           |         |   |
| ▲ TIGTA<br>(FIR BDRY)  |  | 432728N 0620446E<br><b>KZO</b><br><b>235.0° 168.0 NM</b><br><b>(500 FT)</b> |                            |           |         |   |
|                        | 328°<br>147°   | 46.2 NM   | FL 510<br>FL 120           | Even      | Odd     | SHYMKENT ACC 127.3 MHZ<br>{C}                   |
| △ FAZUL                |  | 440916N 0613731E<br><b>ARL</b><br><b>171.0° 160.3 NM</b><br><b>(300 FT)</b> |                            |           |         |   |
|                        | 327°<br>146°   | 84.4 NM   | FL 510<br>FL 120           | Even      | Odd     | SHYMKENT ACC 127.3 MHZ<br>{C}                   |
| ▲ MILSO<br>(FIR BDRY)  |  | 452519N 0604609E<br><b>ARL</b><br><b>194.0° 91.4 NM</b><br><b>(300 FT)</b>  |                            |           |         |   |

| Route designator       |   | [Route Usage Notes]  |                            |           |     |   |
|------------------------|---|--|----------------------------|-----------|-----|---|
| Significant Point Name |   | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |                            |           |     | Remarks   |
| (RNAV / RNP Type)      | Track<br>MAG  | Dist   | Upper limit<br>Lower limit | FL series |     | Controlling unit<br>{Airspace class}<br>Remarks       |
|                        |   |  |                            | ↓         | ↑   |   |
|                        | 327°<br>145°  | 152.0 NM   | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 119 MHZ<br>{C}                             |
| ▲ RUGUS                | 474250N 0591219E<br><b>ARL</b><br><b>289.0° 112.1 NM</b><br><b>(300 FT)</b> |  |                            |           |     |   |
|                        | 327°<br>145°  | 131.6 NM   | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 129.6 MHZ<br>{C}                           |
| △ ODILA                | 494259N 0575122E<br><b>AKB</b><br><b>131.0° 41.9 NM</b><br><b>(700 FT)</b>  |  |                            |           |     |   |
|                        | 325°<br>143°  | 90.5 NM  | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 129.6 MHZ<br>AKTOBE TOWER 120.9 MHZ<br>{C} |
| ▲ MULTA<br>(FIR BDRY)  | 510442N 0565042E<br><b>AKB</b><br><b>335.0° 50.6 NM</b><br><b>(700 FT)</b>  |  |                            |           |     |   |

| Route designator                           | [Route Usage Notes]  |         |                            |           |     |   |
|--|--|---------|----------------------------|-----------|-----|---|
| Significant Point Name                     | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |         |                            |           |     | Remarks   |
| (RNAV / RNP Type)                          | Track<br>MAG   | Dist    | Upper limit<br>Lower limit | FL series |     | Controlling unit<br>{Airspace class}<br>Remarks                   |
|  |  |         |                            | ↓         | ↑   |   |
| M993<br>(RNAV 5)                           |  |         |                            |           |     |   |
| ▲ GOMIR<br>(FIR BDRY)                      | 501042N 0844206E<br><b>UKM</b><br><b>079.0° 85.2 NM</b><br><b>(1000 FT)</b>                    |         |                            |           |     | Before, see AIP Russia  |
|  | 259°<br>078°   | 42.5 NM | FL 510<br>FL 130           | Even      | Odd | ALMATY ACC 132.1 MHZ<br>{C}                                       |
| △ DEVNA                                    | 500647N 0833619E<br><b>UKM</b><br><b>078.0° 42.7 NM</b><br><b>(1000 FT)</b>                    |         |                            |           |     |   |
|  | 258°<br>077°   | 42.7 NM | FL 510<br>FL 120           | Even      | Odd | ALMATY ACC 132.1 MHZ<br>UST-KAMENOGORSK TOWER 130.1<br>MHZ<br>{C} |
| ▲ UST-<br>KAMENOGORSK<br>DVOR/DME<br>(UKM) | 500158N 0823031E   |         |                            |           |     |   |

| Route designator       | [Route Usage Notes]  |         |                            |           |         |  |
|------------------------|--|---------|----------------------------|-----------|---------|--|
| Significant Point Name | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |         |                            |           | Remarks |  |
| (RNAV / RNP Type)      | Track<br>MAG   | Dist    | Upper limit<br>Lower limit | FL series |         | Controlling unit<br>{Airspace class}<br>Remarks                |
|                        |  |         |                            | ↓         | ↑       |  |
|                        | 253°<br>071°   | 51.9 NM | FL 510<br>FL 120           | Even      | Odd     | ALMATY ACC 132.1 MHZ<br>UST-KAMENOGORSK TOWER 130.1 MHZ<br>{C} |
| ▲ NOKNA                | 495154N 0811139E<br><b>SEM</b><br><b>122.0° 46.9 NM</b><br><b>(700 FT)</b>                     |         |                            |           |         |  |
|                        | 251°<br>070°   | 36.1 NM | FL 510<br>FL 120           | Even      | Odd     | ALMATY ACC 132.1 MHZ<br>SEMEY TOWER 128.0 MHZ<br>{C}           |
| △ ROKOD                | 494408N 0801719E<br><b>SEM</b><br><b>170.0° 36.9 NM</b><br><b>(700 FT)</b>                     |         |                            |           |         |  |
|                        | 250°<br>070°   | 21.3 NM | FL 510<br>FL 120           | Even      | Odd     | ALMATY ACC 132.1 MHZ<br>SEMEY TOWER 128.0 MHZ<br>{C}           |
| △ UVTOK                | 493924N 0794524E<br><b>SEM</b><br><b>197.0° 45.7 NM</b><br><b>(700 FT)</b>                     |         |                            |           |         |  |
|                        | 250°<br>069°   | 35.5 NM | FL 510<br>FL 120           | Even      | Odd     | ALMATY ACC 132.1 MHZ<br>{C}                                    |
| △ NONRI                | 493111N 0785223E<br><b>SEM</b><br><b>219.0° 72.9 NM</b><br><b>(700 FT)</b>                     |         |                            |           |         |  |
|                        | 249°<br>068°   | 52.2 NM | FL 510<br>FL 120           | Even      | Odd     | ALMATY ACC 132.1 MHZ<br>{C}                                    |
| △ AKASA                | 491819N 0773455E<br><b>SEM</b><br><b>231.0° 120.9 NM</b><br><b>(700 FT)</b>                    |         |                            |           |         |  |
|                        | 248°<br>067°   | 30.4 NM | FL 510<br>FL 120           | Even      | Odd     | ALMATY ACC 132.1 MHZ<br>{C}                                    |
| △ ESUMA                | 491025N 0765006E<br><b>KRG</b><br><b>095.0° 139.0 NM</b><br><b>(1800 FT)</b>                   |         |                            |           |         |  |
|                        | 247°<br>066°   | 26.7 NM | FL 510<br>FL 120           | Even      | Odd     | ALMATY ACC 132.1 MHZ<br>{C}                                    |

| Route designator       | [Route Usage Notes]  |         |                            |           |     |   |
|------------------------|--|---------|----------------------------|-----------|-----|---|
| Significant Point Name | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |         |                            |           |     | Remarks   |
| (RNAV / RNP Type)      | Track<br>MAG   | Dist    | Upper limit<br>Lower limit | FL series |     | Controlling unit<br>{Airspace class}<br>Remarks |
|                        |  |         |                            | ↓         | ↑   |   |
| ▲ GORBO<br>(FIR BDRY)  | 490316N 0761100E<br><b>KRG</b><br><b>099.0° 116.9 NM</b><br><b>(1800 FT)</b>                   |         |                            |           |     |   |
|                        | 248°<br>067°   | 14.1 NM | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 124.1 MHZ<br>{C}                     |
| △ LALAS                | 485941N 0755014E<br><b>KRG</b><br><b>105.0° 105.2 NM</b><br><b>(1800 FT)</b>                   |         |                            |           |     |   |
|                        | 249°<br>068°   | 31.0 NM | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 124.1 MHZ<br>{C}                     |
| △ IRGIT                | 485220N 0750436E<br><b>KRG</b><br><b>118.0° 82.9 NM</b><br><b>(1800 FT)</b>                    |         |                            |           |     |   |
|                        | 246°<br>065°   | 45.2 NM | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 124.1 MHZ<br>{C}                     |
| △ GONEL                | 483912N 0735912E<br><b>KRG</b><br><b>150.0° 66.6 NM</b><br><b>(1800 FT)</b>                    |         |                            |           |     |   |
|                        | 246°<br>066°   | 37.5 NM | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 124.1 MHZ<br>{C}                     |
| △ LUTEK                | 482853N 0730459E<br><b>KRG</b><br><b>180.0° 73.3 NM</b><br><b>(1800 FT)</b>                    |         |                            |           |     |   |
|                        | 245°<br>063°   | 64.7 NM | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 124.1 MHZ<br>{C}                     |
| ▲ ALEGA                | 480900N 0713249E<br><b>KRG</b><br><b>209.0° 117.2 NM</b><br><b>(1800 FT)</b>                   |         |                            |           |     |   |
|                        | 244°<br>063°   | 31.7 NM | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 132.5 MHZ<br>{C}                     |
| ▲ KUROL                | 475900N 0704800E<br><b>DZG</b><br><b>075.0° 123.8 NM</b><br><b>(1300 FT)</b>                   |         |                            |           |     |   |
|                        | 256°<br>074°   | 80.7 NM | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 132.5 MHZ<br>{C}                     |



| Route designator                  |  | [Route Usage Notes] |                            |           |     |   |
|-----------------------------------|--|---------------------|----------------------------|-----------|-----|---|
| Significant Point Name            | Significant point coordinates<br>Reference VOR/DME ID<br>Bearing and distance<br>DME Elevation |                     |                            |           |     | Remarks   |
| (RNAV / RNP Type)                 | Track<br>MAG   | Dist                | Upper limit<br>Lower limit | FL series |     | Controlling unit<br>{Airspace class}<br>Remarks           |
|                                   |  |                     |                            | ↓         | ↑   |   |
| △ AMASO                           | 474914N 0684857E<br><b>DZG</b><br><b>074.0° 43.1 NM</b><br><b>(1300 FT)</b>                    |                     |                            |           |     |   |
|                                   | 254°<br>073°   | 43.1 NM             | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 132.5 MHZ<br>ZHEZKAZGAN TOWER 127.1 MHZ<br>{C} |
| ▲ ZHEZKAZGAN<br>DVOR/DME<br>(DZG) | 474317N 0674542E   |                     |                            |           |     |   |
|                                   | 286°<br>104°   | 43.2 NM             | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 132.5 MHZ<br>ZHEZKAZGAN TOWER 127.1 MHZ<br>{C} |
| △ DINBO                           | 480029N 0664647E<br><b>DZG</b><br><b>284.0° 43.2 NM</b><br><b>(1300 FT)</b>                    |                     |                            |           |     |   |
|                                   | 285°<br>101°   | 139.6 NM            | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 132.5 MHZ<br>{C}                               |
| △ GOSPA                           | 485256N 0633233E<br><b>ARL</b><br><b>024.0° 145.9 NM</b><br><b>(300 FT)</b>                    |                     |                            |           |     |   |
|                                   | 281°<br>100°   | 39.3 NM             | FL 510<br>FL 120           | Even      | Odd | ASTANA ACC 132.5 MHZ<br>{C}                               |
| ▲ BEDRU<br>(FIR BDRY)             | 490642N 0623638E<br><b>ARL</b><br><b>008.0° 143.0 NM</b><br><b>(300 FT)</b>                    |                     |                            |           |     |   |
|                                   | 280°<br>096°   | 179.2 NM            | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 129.6 MHZ<br>{C}                               |
| △ ADRAT                           | 500334N 0581528E<br><b>AKB</b><br><b>096.0° 43.3 NM</b><br><b>(700 FT)</b>                     |                     |                            |           |     |   |
|                                   | 276°<br>096°   | 43.3 NM             | FL 510<br>FL 120           | Even      | Odd | AKTOBE ACC 129.6 MHZ<br>AKTOBE TOWER 120.9 MHZ<br>{C}     |
| ▲ AKTOBE DVOR/<br>DME (AKB)       | 501548N 0571055E   |                     |                            |           |     |   |

THIS PAGE INTENTIONALLY LEFT BLANK