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**REPUBLIC OF KAZAKHSTAN**

Phone: +7 (7172) 704282  
AFS: UAAKYNXX  
Email: aip@ans.kz  
Post: Bldg 15, E522 str.,  
010014 Astana,  
Republic of Kazakhstan

AIRAC AMDT 007/2025

Effective Date: 10 Jul 2025

**1. Amendment content:**

GEN

GEN 0.2 Information updated

GEN 0.4 Information updated

GEN 2.5 Information updated

ENR

ENR 1.6 Information updated

ENR 3.2 Information updated

ENR 4.4 Information updated

ENR 6 Changes in aeronautical charts.

AD

UATT 2.19 Information updated

UAAA 2.19 Information updated

UAOO 2.6, 2.7 Information updated

AD 2.24 Changes in aeronautical charts.

**2. Hand corrections to the following pages:**

Nil

**3. Record entry of amendment in GEN 0.2.**

**4. This AIP amendment incorporates information contained in the following publications:**

**NOTAM series K:**

K0812/25

**NOTAM series A:**

Nil

**NOTAM series C:**

C2389/25

NOTAM incorporated to this AMDT will be cancelled by NOTAMC on the 25 JUL 2025

**SUP:**

Nil

**AIC:**

Nil

**5. Insert / remove the pages as shown in list on the next page:**

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**GEN 0.2 RECORD OF AIP AMENDMENTS**

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001/2017	16-Feb-2017	30-Mar-2017	
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003/2019	14-Feb-2019	28-Mar-2019	
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003/2020	04-Jun-2020	16-Jul-2020	
004/2020	16-Jul-2020	10-Sep-2020	
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004/2024	30-May-2024	11-Jul-2024	
005/2024	27-Jun-2024	08-Aug-2024	
006/2024	25-Jul-2024	05-Sep-2024	
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ENR-1.2 - 2	07 NOV 2019	ENR-1.7 - 2	30 JAN 2020	ENR-1.9 - 2	30 MAR 2017
ENR-1.2 - 3	07 NOV 2019	ENR-1.7 - 3	23 APR 2020	ENR-1.10 - 1	11 JUL 2024
ENR-1.2 - 4	07 NOV 2019	ENR-1.7 - 4	30 JAN 2020	ENR-1.10 - 2	26 JAN 2023
ENR-1.3 - 1	26 JAN 2023	ENR-1.8 - 1	03 DEC 2020	ENR-1.11 - 1	26 JAN 2023
ENR-1.3 - 2	06 OCT 2022	ENR-1.8 - 2	26 JAN 2023	ENR-1.11 - 2	07 NOV 2019
ENR-1.3 - 3	06 OCT 2022	ENR-1.8 - 3	03 DEC 2020	ENR-1.12 - 1	07 NOV 2019
ENR-1.3 - 4	06 OCT 2022	ENR-1.8 - 4	03 DEC 2020	ENR-1.12 - 2	07 NOV 2019
ENR-1.4 - 1	23 JAN 2025	ENR-1.8 - 5	03 DEC 2020	ENR-1.12 - 3	07 NOV 2019
ENR-1.4 - 2	23 JAN 2025	ENR-1.8 - 6	03 DEC 2020	ENR-1.12 - 4	07 NOV 2019
ENR-1.5 - 1	26 JAN 2023	ENR-1.8 - 7	03 DEC 2020	ENR-1.13 - 1	07 NOV 2019
ENR-1.5 - 2	26 JAN 2023	ENR-1.8 - 8	26 JAN 2023	ENR-1.13 - 2	07 NOV 2019
ENR-1.5 - 3	03 DEC 2020	ENR-1.8 - 9	26 JAN 2023	ENR-1.14 - 1	23 APR 2020
ENR-1.5 - 4	03 DEC 2020	ENR-1.8 - 10	21 MAR 2024	ENR-1.14 - 2	23 APR 2020
ENR-1.6 - 1	26 JAN 2023	ENR-1.8 - 11	23 JAN 2025	ENR-1.14 - 3	07 NOV 2019
ENR-1.6 - 2	26 JAN 2023	ENR-1.8 - 12	23 JAN 2025	ENR-1.14 - 4	07 NOV 2019
ENR-1.6 - 3	26 JAN 2023	ENR-1.8 - 13	10 AUG 2023	ENR-1.14 - 5	07 NOV 2019
ENR-1.6 - 4	23 JAN 2025	ENR-1.8 - 14	10 AUG 2023	ENR-1.14 - 6	07 NOV 2019
ENR-1.6 - 5	08 AUG 2024	ENR-1.8 - 15	10 AUG 2023	ENR-1.14 - 7	07 NOV 2019
ENR-1.6 - 6	10 JUL 2025	ENR-1.8 - 16	10 AUG 2023	ENR-1.14 - 8	07 NOV 2019

ENR 2 AIR TRAFFIC SERVICES AIRSPACE

ENR-2.1 - 1	26 JAN 2023	ENR-2.1 - 11	23 JAN 2025	ENR-2.2 - 1	21 MAR 2024
ENR-2.1 - 2	10 AUG 2023	ENR-2.1 - 12	23 JAN 2025	ENR-2.2 - 2	23 JAN 2025
ENR-2.1 - 3	26 JAN 2023	ENR-2.1 - 13	23 JAN 2025	ENR-2.2 - 3	23 JAN 2025
ENR-2.1 - 4	26 JAN 2023	ENR-2.1 - 14	23 JAN 2025	ENR-2.2 - 4	21 MAR 2024
ENR-2.1 - 5	10 AUG 2023	ENR-2.1 - 15	23 JAN 2025	ENR-2.2 - 5	11 JUL 2024
ENR-2.1 - 6	10 AUG 2023	ENR-2.1 - 16	23 JAN 2025	ENR-2.2 - 6	11 JUL 2024
ENR-2.1 - 7	23 JAN 2025	ENR-2.1 - 17	23 JAN 2025	ENR-2.2 - 7	11 JUL 2024
ENR-2.1 - 8	23 JAN 2025	ENR-2.1 - 18	23 JAN 2025	ENR-2.2 - 8	11 JUL 2024
ENR-2.1 - 9	23 JAN 2025	ENR-2.1 - 19	23 JAN 2025	ENR-2.2 - 9	21 MAR 2024
ENR-2.1 - 10	23 JAN 2025	ENR-2.1 - 20	23 JAN 2025	ENR-2.2 - 10	21 MAR 2024

ENR 3 ATS ROUTES

ENR-3.1 - 1	24 FEB 2022	ENR 3.2.1 - 10	10 JUL 2025	ENR 3.2.1 - 39	10 JUL 2025
ENR-3.1 - 2	20 APR 2023	ENR 3.2.1 - 11	10 JUL 2025	ENR 3.2.1 - 40	10 JUL 2025
ENR-3.1 - 3	20 APR 2023	ENR 3.2.1 - 12	10 JUL 2025	ENR 3.2.1 - 41	10 JUL 2025
ENR-3.1 - 4	24 FEB 2022	ENR 3.2.1 - 13	10 JUL 2025	ENR 3.2.1 - 42	10 JUL 2025
ENR-3.1 - 5	24 FEB 2022	ENR 3.2.1 - 14	10 JUL 2025	ENR 3.2.2 - 1	10 AUG 2023
ENR-3.1 - 6	24 FEB 2022	ENR 3.2.1 - 15	10 JUL 2025	ENR 3.2.2 - 2	10 AUG 2023
ENR-3.1 - 7	24 FEB 2022	ENR 3.2.1 - 16	10 JUL 2025	ENR 3.2.2 - 3	10 AUG 2023
ENR-3.1 - 8	24 FEB 2022	ENR 3.2.1 - 17	10 JUL 2025	ENR 3.2.2 - 4	10 AUG 2023
ENR-3.1 - 9	10 AUG 2023	ENR 3.2.1 - 18	10 JUL 2025	ENR 3.2.2 - 5	10 AUG 2023
ENR-3.1 - 10	10 AUG 2023	ENR 3.2.1 - 19	10 JUL 2025	ENR 3.2.2 - 6	10 AUG 2023
ENR-3.1 - 11	10 AUG 2023	ENR 3.2.1 - 20	10 JUL 2025	ENR 3.2.2 - 7	10 AUG 2023
ENR-3.1 - 12	10 AUG 2023	ENR 3.2.1 - 21	10 JUL 2025	ENR 3.2.2 - 8	10 AUG 2023
ENR-3.1 - 13	10 AUG 2023	ENR 3.2.1 - 22	10 JUL 2025	ENR 3.2.2 - 9	10 AUG 2023
ENR-3.1 - 14	25 JAN 2024	ENR 3.2.1 - 23	10 JUL 2025	ENR 3.2.2 - 10	10 AUG 2023
ENR-3.1 - 15	10 AUG 2023	ENR 3.2.1 - 24	10 JUL 2025	ENR 3.2.2 - 11	10 JUL 2025
ENR-3.1 - 16	10 AUG 2023	ENR 3.2.1 - 25	10 JUL 2025	ENR 3.2.2 - 12	10 JUL 2025
ENR-3.1 - 17	10 AUG 2023	ENR 3.2.1 - 26	10 JUL 2025	ENR 3.2.2 - 13	10 JUL 2025
ENR-3.1 - 18	10 AUG 2023	ENR 3.2.1 - 27	10 JUL 2025	ENR 3.2.2 - 14	10 JUL 2025
ENR 3.2 - 1	04 NOV 2021	ENR 3.2.1 - 28	10 JUL 2025	ENR 3.2.2 - 15	10 JUL 2025
ENR 3.2 - 2	04 NOV 2021	ENR 3.2.1 - 29	10 JUL 2025	ENR 3.2.2 - 16	10 JUL 2025
ENR 3.2.1 - 1	10 JUL 2025	ENR 3.2.1 - 30	10 JUL 2025	ENR 3.2.2 - 17	10 JUL 2025
ENR 3.2.1 - 2	10 JUL 2025	ENR 3.2.1 - 31	10 JUL 2025	ENR 3.2.2 - 18	10 JUL 2025
ENR 3.2.1 - 3	10 JUL 2025	ENR 3.2.1 - 32	10 JUL 2025	ENR 3.2.2 - 19	10 JUL 2025
ENR 3.2.1 - 4	10 AUG 2023	ENR 3.2.1 - 33	10 JUL 2025	ENR 3.2.2 - 20	10 JUL 2025
ENR 3.2.1 - 5	10 AUG 2023	ENR 3.2.1 - 34	10 JUL 2025	ENR 3.2.2 - 21	10 JUL 2025
ENR 3.2.1 - 6	10 AUG 2023	ENR 3.2.1 - 35	10 JUL 2025	ENR 3.2.2 - 22	10 JUL 2025
ENR 3.2.1 - 7	11 JUL 2024	ENR 3.2.1 - 36	10 JUL 2025	ENR 3.2.2 - 23	10 JUL 2025
ENR 3.2.1 - 8	11 JUL 2024	ENR 3.2.1 - 37	10 JUL 2025	ENR 3.2.2 - 24	10 JUL 2025
ENR 3.2.1 - 9	11 JUL 2024	ENR 3.2.1 - 38	10 JUL 2025	ENR 3.2.2 - 25	10 JUL 2025



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ENR 3.2.2 - 26	10 JUL 2025	ENR 3.2.3 - 31	10 JUL 2025	ENR 3.2.7 - 4	10 JUL 2025
ENR 3.2.2 - 27	10 JUL 2025	ENR 3.2.3 - 32	10 JUL 2025	ENR 3.2.7 - 5	10 JUL 2025
ENR 3.2.2 - 28	10 JUL 2025	ENR 3.2.3 - 33	10 JUL 2025	ENR 3.2.7 - 6	10 JUL 2025
ENR 3.2.2 - 29	10 JUL 2025	ENR 3.2.3 - 34	10 JUL 2025	ENR 3.2.7 - 7	10 JUL 2025
ENR 3.2.2 - 30	10 JUL 2025	ENR 3.2.3 - 35	10 JUL 2025	ENR 3.2.7 - 8	31 OCT 2024
ENR 3.2.2 - 31	10 JUL 2025	ENR 3.2.3 - 36	10 JUL 2025	ENR 3.2.7 - 9	31 OCT 2024
ENR 3.2.2 - 32	10 JUL 2025	ENR 3.2.3 - 37	10 JUL 2025	ENR 3.2.7 - 10	31 OCT 2024
ENR 3.2.2 - 33	10 JUL 2025	ENR 3.2.3 - 38	10 JUL 2025	ENR 3.2.7 - 11	31 OCT 2024
ENR 3.2.2 - 34	10 JUL 2025	ENR 3.2.3 - 39	10 JUL 2025	ENR 3.2.7 - 12	31 OCT 2024
ENR 3.2.3 - 1	10 JUL 2025	ENR 3.2.3 - 40	10 JUL 2025	ENR 3.2.7 - 13	31 OCT 2024
ENR 3.2.3 - 2	10 JUL 2025	ENR 3.2.3 - 41	10 JUL 2025	ENR 3.2.7 - 14	31 OCT 2024
ENR 3.2.3 - 3	10 JUL 2025	ENR 3.2.3 - 42	10 JUL 2025	ENR 3.2.7 - 15	31 OCT 2024
ENR 3.2.3 - 4	10 JUL 2025	ENR 3.2.4 - 1	10 AUG 2023	ENR 3.2.7 - 16	31 OCT 2024
ENR 3.2.3 - 5	10 JUL 2025	ENR 3.2.4 - 2	10 AUG 2023	ENR 3.2.7 - 17	31 OCT 2024
ENR 3.2.3 - 6	10 JUL 2025	ENR 3.2.4 - 3	10 JUL 2025	ENR 3.2.7 - 18	31 OCT 2024
ENR 3.2.3 - 7	10 JUL 2025	ENR 3.2.4 - 4	10 JUL 2025	ENR 3.2.7 - 19	10 JUL 2025
ENR 3.2.3 - 8	10 JUL 2025	ENR 3.2.4 - 5	10 JUL 2025	ENR 3.2.7 - 20	10 JUL 2025
ENR 3.2.3 - 9	10 JUL 2025	ENR 3.2.4 - 6	10 JUL 2025	ENR 3.2.7 - 21	10 JUL 2025
ENR 3.2.3 - 10	10 JUL 2025	ENR 3.2.4 - 7	10 JUL 2025	ENR 3.2.7 - 22	10 JUL 2025
ENR 3.2.3 - 11	10 JUL 2025	ENR 3.2.4 - 8	10 JUL 2025	ENR 3.2.7 - 23	10 JUL 2025
ENR 3.2.3 - 12	10 JUL 2025	ENR 3.2.4 - 9	10 JUL 2025	ENR 3.2.7 - 24	10 JUL 2025
ENR 3.2.3 - 13	10 JUL 2025	ENR 3.2.4 - 10	10 JUL 2025	ENR 3.2.7 - 25	10 JUL 2025
ENR 3.2.3 - 14	10 JUL 2025	ENR 3.2.4 - 11	10 JUL 2025	ENR 3.2.7 - 26	10 JUL 2025
ENR 3.2.3 - 15	10 JUL 2025	ENR 3.2.4 - 12	10 AUG 2023	ENR 3.2.7 - 27	10 JUL 2025
ENR 3.2.3 - 16	10 JUL 2025	ENR 3.2.5 - 1	05 OCT 2023	ENR 3.2.7 - 28	10 JUL 2025
ENR 3.2.3 - 17	10 JUL 2025	ENR 3.2.5 - 2	05 OCT 2023	ENR 3.2.7 - 29	10 JUL 2025
ENR 3.2.3 - 18	10 JUL 2025	ENR 3.2.6 - 1	10 AUG 2023	ENR 3.2.7 - 30	10 JUL 2025
ENR 3.2.3 - 19	10 JUL 2025	ENR 3.2.6 - 2	10 AUG 2023	ENR 3.2.7 - 31	10 JUL 2025
ENR 3.2.3 - 20	10 JUL 2025	ENR 3.2.6 - 3	10 AUG 2023	ENR 3.2.7 - 32	10 JUL 2025
ENR 3.2.3 - 21	10 JUL 2025	ENR 3.2.6 - 4	10 JUL 2025	ENR-3.3 - 1	19 MAY 2022
ENR 3.2.3 - 22	10 JUL 2025	ENR 3.2.6 - 5	10 AUG 2023	ENR-3.3 - 2	04 NOV 2021
ENR 3.2.3 - 23	10 JUL 2025	ENR 3.2.6 - 6	10 AUG 2023	ENR-3.4 - 1	19 MAY 2022
ENR 3.2.3 - 24	10 JUL 2025	ENR 3.2.6 - 7	10 JUL 2025	ENR-3.4 - 2	04 NOV 2021
ENR 3.2.3 - 25	10 JUL 2025	ENR 3.2.6 - 8	10 JUL 2025	ENR-3.5 - 1	19 MAY 2022
ENR 3.2.3 - 26	10 JUL 2025	ENR 3.2.6 - 9	10 JUL 2025	ENR-3.5 - 2	19 MAY 2022
ENR 3.2.3 - 27	10 JUL 2025	ENR 3.2.6 - 10	10 JUL 2025	ENR-3.6 - 1	19 MAY 2022
ENR 3.2.3 - 28	10 JUL 2025	ENR 3.2.7 - 1	10 AUG 2023	ENR-3.6 - 2	19 MAY 2022
ENR 3.2.3 - 29	10 JUL 2025	ENR 3.2.7 - 2	10 AUG 2023		
ENR 3.2.3 - 30	10 JUL 2025	ENR 3.2.7 - 3	10 AUG 2023		
ENR 4	RADIO NAVIGATION AIDS/SYSTEMS				
ENR-4.1 - 1	05 SEP 2024	ENR-4.4 - 9	10 JUL 2025	ENR-4.4 - 23	10 JUL 2025
ENR-4.1 - 2	11 AUG 2022	ENR-4.4 - 10	10 JUL 2025	ENR-4.4 - 24	10 JUL 2025
ENR-4.2 - 1	30 MAR 2017	ENR-4.4 - 11	10 JUL 2025	ENR-4.4 - 25	10 JUL 2025
ENR-4.2 - 2	30 MAR 2017	ENR-4.4 - 12	10 JUL 2025	ENR-4.4 - 26	10 JUL 2025
ENR-4.3 - 1	30 MAR 2017	ENR-4.4 - 13	10 JUL 2025	ENR-4.4 - 27	10 JUL 2025
ENR-4.3 - 2	30 MAR 2017	ENR-4.4 - 14	10 JUL 2025	ENR-4.4 - 28	10 JUL 2025
ENR-4.4 - 1	10 AUG 2023	ENR-4.4 - 15	10 JUL 2025	ENR-4.4 - 29	10 JUL 2025
ENR-4.4 - 2	12 JUN 2025	ENR-4.4 - 16	10 JUL 2025	ENR-4.4 - 30	10 JUL 2025
ENR-4.4 - 3	10 JUL 2025	ENR-4.4 - 17	10 JUL 2025	ENR-4.4 - 31	10 JUL 2025
ENR-4.4 - 4	15 MAY 2025	ENR-4.4 - 18	10 JUL 2025	ENR-4.4 - 32	10 JUL 2025
ENR-4.4 - 5	15 MAY 2025	ENR-4.4 - 19	10 JUL 2025	ENR-4.4 - 33	10 JUL 2025
ENR-4.4 - 6	15 MAY 2025	ENR-4.4 - 20	10 JUL 2025	ENR-4.4 - 34	10 JUL 2025
ENR-4.4 - 7	10 JUL 2025	ENR-4.4 - 21	10 JUL 2025	ENR-4.5 - 1	30 MAR 2017
ENR-4.4 - 8	10 JUL 2025	ENR-4.4 - 22	10 JUL 2025	ENR-4.5 - 2	30 MAR 2017
ENR 5	NAVIGATION WARNINGS				
ENR-5.1 - 1	23 APR 2020	ENR-5.1 - 14	23 APR 2020	ENR-5.3 - 1	11 AUG 2022
ENR-5.1 - 2	02 DEC 2021	ENR-5.1 - 15	23 APR 2020	ENR-5.3 - 2	30 MAR 2017
ENR-5.1 - 3	11 AUG 2022	ENR-5.1 - 16	04 NOV 2021	ENR-5.4 - 1	08 AUG 2024
ENR-5.1 - 4	11 AUG 2022	ENR-5.1 - 17	04 NOV 2021	ENR-5.4 - 2	30 MAR 2017
ENR-5.1 - 5	11 AUG 2022	ENR-5.1 - 18	23 APR 2020	ENR-5.5 - 1	30 MAR 2017
ENR-5.1 - 6	26 JAN 2023	ENR-5.1 - 19	23 FEB 2023	ENR-5.5 - 2	30 MAR 2017
ENR-5.1 - 7	11 AUG 2022	ENR-5.1 - 20	23 FEB 2023	ENR-5.6 - 1	10 SEP 2020
ENR-5.1 - 8	11 AUG 2022	ENR-5.1 - 21	23 FEB 2023	ENR-5.6 - 2	10 SEP 2020
ENR-5.1 - 9	11 AUG 2022	ENR-5.1 - 22	23 FEB 2023		
ENR-5.1 - 10	04 NOV 2021	ENR-5.1 - 23	23 FEB 2023		
ENR-5.1 - 11	23 APR 2020	ENR-5.1 - 24	23 FEB 2023		
ENR-5.1 - 12	23 APR 2020	ENR-5.2 - 1	07 NOV 2019		
ENR-5.1 - 13	23 APR 2020	ENR-5.2 - 2	07 NOV 2019		

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ENR 6		EN-ROUTE CHART			
ENR-6 - 1	15 JUL 2021	ENR-6.1 - 1	10 JUL 2025		
ENR-6 - 2	30 MAR 2017	ENR-6.1 - 2	10 JUL 2025		

## PART 3 - AERODROMES (AD)

## AD 0

AD-0.1 - 1	23 MAY 2019	AD-0.5 - 2	30 MAR 2017	AD-0.6 - 9	08 AUG 2024
AD-0.1 - 2	30 MAR 2017	AD-0.6 - 1	08 AUG 2024	AD-0.6 - 10	08 AUG 2024
AD-0.2 - 1	23 MAY 2019	AD-0.6 - 2	08 AUG 2024	AD-0.6 - 11	08 AUG 2024
AD-0.2 - 2	30 MAR 2017	AD-0.6 - 3	08 AUG 2024	AD-0.6 - 12	08 AUG 2024
AD-0.3 - 1	23 MAY 2019	AD-0.6 - 4	08 AUG 2024	AD-0.6 - 13	08 AUG 2024
AD-0.3 - 2	30 MAR 2017	AD-0.6 - 5	08 AUG 2024	AD-0.6 - 14	08 AUG 2024
AD-0.4 - 1	23 MAY 2019	AD-0.6 - 6	08 AUG 2024	AD-0.6 - 15	08 AUG 2024
AD-0.4 - 2	30 MAR 2017	AD-0.6 - 7	08 AUG 2024	AD-0.6 - 16	08 AUG 2024
AD-0.5 - 1	23 MAY 2019	AD-0.6 - 8	08 AUG 2024		

## AD 1 AERODROMES/HELIPORTS - INTRODUCTION

AD-1.1 - 1	17 APR 2025	AD-1.2 - 5	31 OCT 2024	AD-1.4 - 1	21 JUN 2018
AD-1.1 - 2	07 NOV 2019	AD-1.2 - 6	31 OCT 2024	AD-1.4 - 2	30 MAR 2017
AD-1.2 - 1	04 NOV 2021	AD-1.2 - 7	31 OCT 2024	AD-1.5 - 1	17 APR 2025
AD-1.2 - 2	31 OCT 2024	AD-1.2 - 8	31 OCT 2024	AD-1.5 - 2	17 APR 2025
AD-1.2 - 3	04 NOV 2021	AD-1.3 - 1	08 AUG 2024		
AD-1.2 - 4	31 OCT 2024	AD-1.3 - 2	08 AUG 2024		

## AD 2 AERODROMES

AD-2-UATE - 1	12 JUN 2025	UATE AD 2.24.10 - 2	30 MAR 2017	UATT AD 2.24.7-1 - 1	17 APR 2025
AD-2-UATE - 2	23 FEB 2023	UATE AD 2.24.11-1 - 1	05 SEP 2024	UATT AD 2.24.7-1 - 2	20 MAY 2021
AD-2-UATE - 3	12 JUN 2025	UATE AD 2.24.11-1 - 2	11 JUL 2024	UATT AD 2.24.7-2 - 1	17 APR 2025
AD-2-UATE - 4	12 JUN 2025	UATE AD 2.24.11-2 - 1	05 SEP 2024	UATT AD 2.24.7-2 - 2	20 MAY 2021
AD-2-UATE - 5	12 JUN 2025	UATE AD 2.24.11-2 - 2	15 JUN 2023	UATT AD 2.24.9-1 - 1	17 APR 2025
AD-2-UATE - 6	12 JUN 2025	UATE AD 2.24.11-3 - 1	05 SEP 2024	UATT AD 2.24.9-1 - 2	25 FEB 2021
AD-2-UATE - 7	12 JUN 2025	UATE AD 2.24.11-3 - 2	15 JUN 2023	UATT AD 2.24.9-2 - 1	17 APR 2025
AD-2-UATE - 8	12 JUN 2025	UATE AD 2.24.11-4 - 1	05 SEP 2024	UATT AD 2.24.9-2 - 2	25 FEB 2021
AD-2-UATE - 9	12 JUN 2025	UATE AD 2.24.11-4 - 2	15 JUN 2023	UATT AD 2.24.10 - 1	17 APR 2025
AD-2-UATE - 10	12 JUN 2025	UATE AD 2.24.11-5 - 1	02 NOV 2023	UATT AD 2.24.10 - 2	30 MAR 2017
AD-2-UATE - 11	12 JUN 2025	UATE AD 2.24.11-5 - 2	15 JUN 2023	UATT AD 2.24.11-1 - 1	17 APR 2025
AD-2-UATE - 12	12 JUN 2025	UATE AD 2.24.11-6 - 1	02 NOV 2023	UATT AD 2.24.11-1 - 2	25 FEB 2021
AD-2-UATE - 13	12 JUN 2025	UATE AD 2.24.11-6 - 2	15 JUN 2023	UATT AD 2.24.11-2 - 1	15 MAY 2025
AD-2-UATE - 14	12 JUN 2025	UATE AD 2.24.11-7 - 1	15 JUN 2023	UATT AD 2.24.11-2 - 2	25 FEB 2021
UATE AD 2.24.1 - 1	05 OCT 2023	UATE AD 2.24.11-7 - 2	23 FEB 2023	UATT AD 2.24.11-3 - 1	17 APR 2025
UATE AD 2.24.1 - 2	30 MAR 2017	UATE AD 2.24.11-8 - 1	15 JUN 2023	UATT AD 2.24.11-3 - 2	25 FEB 2021
UATE AD 2.24.3 - 1	05 OCT 2023	UATE AD 2.24.11-8 - 2	23 FEB 2023	UATT AD 2.24.11-4 - 1	17 APR 2025
UATE AD 2.24.3 - 2	30 MAR 2017	UATE AD 2.24.11-9 - 1	05 SEP 2024	UATT AD 2.24.11-4 - 2	25 FEB 2021
UATE AD 2.24.4 - 1	23 FEB 2023	UATE AD 2.24.11-9 - 2	08 AUG 2024	UATT AD 2.24.11-5 - 1	10 JUL 2025
UATE AD 2.24.4 - 2	11 AUG 2022	UATE AD 2.24.11-10 - 1	05 SEP 2024	UATT AD 2.24.11-5 - 2	10 JUL 2025
UATE AD 2.24.7-1 - 1	05 SEP 2024	UATE AD 2.24.11-10 - 2	08 AUG 2024	UATT AD 2.24.12 - 1	10 JUL 2025
UATE AD 2.24.7-1 - 2	23 FEB 2023	UATE AD 2.24.12 - 1	23 FEB 2023	UATT AD 2.24.12 - 2	30 MAR 2017
UATE AD 2.24.7-2 - 1	05 SEP 2024	UATE AD 2.24.12 - 2	30 MAR 2017	UATT AD 2.24.14 - 1	11 JUL 2024
UATE AD 2.24.7-2 - 2	23 FEB 2023	UATE AD 2.24.14 - 1	23 FEB 2023	UATT AD 2.24.14 - 2	15 JUL 2021
UATE AD 2.24.7-3 - 1	05 SEP 2024	UATE AD 2.24.14 - 2	15 JUL 2021	AD-2-UAAA - 1	15 MAY 2025
UATE AD 2.24.7-3 - 2	23 FEB 2023	AD-2-UATT - 1	08 AUG 2024	AD-2-UAAA - 2	31 OCT 2024
UATE AD 2.24.7-4 - 1	05 SEP 2024	AD-2-UATT - 2	26 JAN 2023	AD-2-UAAA - 3	15 MAY 2025
UATE AD 2.24.7-4 - 2	16 MAY 2024	AD-2-UATT - 3	16 MAY 2024	AD-2-UAAA - 4	15 MAY 2025
UATE AD 2.24.7-5 - 1	05 SEP 2024	AD-2-UATT - 4	08 AUG 2024	AD-2-UAAA - 5	15 MAY 2025
UATE AD 2.24.7-5 - 2	23 JAN 2025	AD-2-UATT - 5	08 AUG 2024	AD-2-UAAA - 6	15 MAY 2025
UATE AD 2.24.9-1 - 1	05 SEP 2024	AD-2-UATT - 6	10 JUL 2025	AD-2-UAAA - 7	15 MAY 2025
UATE AD 2.24.9-1 - 2	23 FEB 2023	AD-2-UATT - 7	10 JUL 2025	AD-2-UAAA - 8	15 MAY 2025
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UARR AD 2.24.1 - 2	30 MAR 2017	UAAL AD 2.24.7-2 - 1	23 FEB 2023	UASK AD 2.24.9-4 - 2	11 JUL 2024
UARR AD 2.24.3 - 1	05 SEP 2024	UAAL AD 2.24.7-2 - 2	09 NOV 2017	UASK AD 2.24.9-5 - 1	23 JAN 2025
UARR AD 2.24.3 - 2	30 MAR 2017	UAAL AD 2.24.7-3 - 1	05 SEP 2024	UASK AD 2.24.9-5 - 2	11 JUL 2024
UARR AD 2.24.4 - 1	31 OCT 2024	UAAL AD 2.24.7-3 - 2	16 MAY 2024	UASK AD 2.24.9-6 - 1	31 OCT 2024
UARR AD 2.24.4 - 2	30 MAR 2017	UAAL AD 2.24.7-4 - 1	05 SEP 2024	UASK AD 2.24.9-6 - 2	11 JUL 2024
UARR AD 2.24.7-1 - 1	11 JUL 2024	UAAL AD 2.24.7-4 - 2	16 MAY 2024	UASK AD 2.24.9-7 - 1	31 OCT 2024
UARR AD 2.24.7-1 - 2	07 NOV 2019	UAAL AD 2.24.9-1 - 1	23 FEB 2023	UASK AD 2.24.9-7 - 2	11 JUL 2024
UARR AD 2.24.7-2 - 1	11 JUL 2024	UAAL AD 2.24.9-1 - 2	09 NOV 2017	UASK AD 2.24.9-8 - 1	31 OCT 2024
UARR AD 2.24.7-2 - 2	07 NOV 2019	UAAL AD 2.24.9-2 - 1	23 FEB 2023	UASK AD 2.24.9-8 - 2	11 JUL 2024
UARR AD 2.24.9-1 - 1	11 JUL 2024	UAAL AD 2.24.9-2 - 2	09 NOV 2017	UASK AD 2.24.9-9 - 1	31 OCT 2024
UARR AD 2.24.9-1 - 2	07 NOV 2019	UAAL AD 2.24.9-3 - 1	16 MAY 2024	UASK AD 2.24.9-9 - 2	11 JUL 2024
UARR AD 2.24.9-2 - 1	11 JUL 2024	UAAL AD 2.24.9-3 - 2	11 JUL 2024	UASK AD 2.24.9-10 - 1	31 OCT 2024
UARR AD 2.24.9-2 - 2	07 NOV 2019	UAAL AD 2.24.9-4 - 1	16 MAY 2024	UASK AD 2.24.9-10 - 2	11 JUL 2024
UARR AD 2.24.10 - 1	11 JUL 2024	UAAL AD 2.24.9-4 - 2	11 JUL 2024	UASK AD 2.24.9-11 - 1	31 OCT 2024
UARR AD 2.24.10 - 2	30 MAR 2017	UAAL AD 2.24.11-1 - 1	12 JUN 2025	UASK AD 2.24.9-11 - 2	11 JUL 2024
UARR AD 2.24.11-1 - 1	11 JUL 2024	UAAL AD 2.24.11-1 - 2	23 FEB 2023	UASK AD 2.24.10 - 1	31 OCT 2024
UARR AD 2.24.11-1 - 2	07 NOV 2019	UAAL AD 2.24.11-2 - 1	12 JUN 2025	UASK AD 2.24.10 - 2	30 MAR 2017
UARR AD 2.24.11-2 - 1	17 APR 2025	UAAL AD 2.24.11-2 - 2	23 FEB 2023	UASK AD 2.24.11-1 - 1	31 OCT 2024
UARR AD 2.24.11-2 - 2	07 NOV 2019	UAAL AD 2.24.11-3 - 1	12 JUN 2025	UASK AD 2.24.11-1 - 2	02 DEC 2021
UARR AD 2.24.11-3 - 1	17 APR 2025	UAAL AD 2.24.11-3 - 2	23 FEB 2023	UASK AD 2.24.11-2 - 1	31 OCT 2024
UARR AD 2.24.11-3 - 2	07 NOV 2019	UAAL AD 2.24.11-4 - 1	12 JUN 2025	UASK AD 2.24.11-2 - 2	31 OCT 2024
UARR AD 2.24.11-4 - 1	17 APR 2025	UAAL AD 2.24.11-4 - 2	23 FEB 2023	UASK AD 2.24.11-3 - 1	31 OCT 2024
UARR AD 2.24.11-4 - 2	07 NOV 2019	UAAL AD 2.24.11-5 - 1	16 MAY 2024	UASK AD 2.24.11-3 - 2	02 DEC 2021
UARR AD 2.24.11-5 - 1	17 APR 2025	UAAL AD 2.24.11-5 - 2	11 JUL 2024	UASK AD 2.24.11-4 - 1	31 OCT 2024
UARR AD 2.24.11-5 - 2	04 NOV 2021	UAAL AD 2.24.11-6 - 1	16 MAY 2024	UASK AD 2.24.11-4 - 2	24 FEB 2022
UARR AD 2.24.12 - 1	11 JUL 2024	UAAL AD 2.24.11-6 - 2	11 JUL 2024	UASK AD 2.24.11-5 - 1	23 JAN 2025
UARR AD 2.24.12 - 2	30 MAR 2017	UAAL AD 2.24.12 - 1	23 FEB 2023	UASK AD 2.24.11-5 - 2	11 JUL 2024
UARR AD 2.24.14 - 1	20 APR 2023	UAAL AD 2.24.12 - 2	09 NOV 2017	UASK AD 2.24.11-6 - 1	23 JAN 2025
UARR AD 2.24.14 - 2	15 JUL 2021	UAAL AD 2.24.14 - 1	15 JUN 2023	UASK AD 2.24.11-6 - 2	11 JUL 2024
AD-2-UASU - 1	31 OCT 2024	UAAL AD 2.24.14 - 2	01 DEC 2022	UASK AD 2.24.12 - 1	23 JAN 2025
AD-2-UASU - 2	20 FEB 2025	AD-2-UASK - 1	31 OCT 2024	UASK AD 2.24.12 - 2	30 MAR 2017
AD-2-UASU - 3	16 MAY 2024	AD-2-UASK - 2	06 OCT 2022	UASK AD 2.24.14 - 1	23 FEB 2023
AD-2-UASU - 4	20 MAR 2025	AD-2-UASK - 3	08 AUG 2024	UASK AD 2.24.14 - 2	11 AUG 2022
AD-2-UASU - 5	20 MAR 2025	AD-2-UASK - 4	15 MAY 2025	AD-2-UASZ - 1	05 OCT 2023
AD-2-UASU - 6	16 MAY 2024	AD-2-UASK - 5	08 AUG 2024	AD-2-UASZ - 2	05 SEP 2024
AD-2-UASU - 7	20 FEB 2025	AD-2-UASK - 6	05 SEP 2024	AD-2-UASZ - 3	05 SEP 2024
AD-2-UASU - 8	16 MAY 2024	AD-2-UASK - 7	23 JAN 2025	AD-2-UASZ - 4	05 SEP 2024
UASU AD 2.24.1 - 1	15 JUN 2023	AD-2-UASK - 8	15 MAY 2025	AD-2-UASZ - 5	05 SEP 2024
UASU AD 2.24.1 - 2	01 FEB 2018	AD-2-UASK - 9	15 MAY 2025	AD-2-UASZ - 6	23 JAN 2025
UASU AD 2.24.3 - 1	15 JUN 2023	AD-2-UASK - 10	15 MAY 2025	AD-2-UASZ - 7	05 SEP 2024
UASU AD 2.24.3 - 2	15 JUN 2023	AD-2-UASK - 11	15 MAY 2025	AD-2-UASZ - 8	16 MAY 2024
UASU AD 2.24.6 - 1	10 JUL 2025	AD-2-UASK - 12	31 OCT 2024	UASZ AD 2.24.1 - 1	05 SEP 2024
UASU AD 2.24.6 - 2	11 AUG 2022	UASK AD 2.24.1 - 1	15 MAY 2025	UASZ AD 2.24.1 - 2	01 FEB 2018
UASU AD 2.24.7-1 - 1	15 JUN 2023	UASK AD 2.24.1 - 2	30 MAR 2017	UASZ AD 2.24.3 - 1	05 SEP 2024
UASU AD 2.24.7-1 - 2	01 FEB 2018	UASK AD 2.24.3 - 1	05 SEP 2024	UASZ AD 2.24.3 - 2	04 NOV 2021
UASU AD 2.24.7-2 - 1	15 JUN 2023	UASK AD 2.24.3 - 2	01 DEC 2022	UASZ AD 2.24.6 - 1	11 AUG 2022
UASU AD 2.24.7-2 - 2	01 FEB 2018	UASK AD 2.24.4 - 1	24 FEB 2022	UASZ AD 2.24.6 - 2	11 AUG 2022
UASU AD 2.24.9-1 - 1	15 JUN 2023	UASK AD 2.24.4 - 2	30 MAR 2017	UASZ AD 2.24.7-1 - 1	11 AUG 2022
UASU AD 2.24.9-1 - 2	01 FEB 2018	UASK AD 2.24.6 - 1	31 OCT 2024	UASZ AD 2.24.7-1 - 2	01 FEB 2018
UASU AD 2.24.11-1 - 1	15 JUN 2023	UASK AD 2.24.6 - 2	11 AUG 2022	UASZ AD 2.24.7-2 - 1	11 AUG 2022
UASU AD 2.24.11-1 - 2	15 JUN 2023	UASK AD 2.24.7-1 - 1	31 OCT 2024	UASZ AD 2.24.7-2 - 2	01 FEB 2018
UASU AD 2.24.12 - 1	15 JUN 2023	UASK AD 2.24.7-1 - 2	11 AUG 2022	UASZ AD 2.24.9-1 - 1	11 AUG 2022
UASU AD 2.24.12 - 2	01 FEB 2018	UASK AD 2.24.7-2 - 1	31 OCT 2024	UASZ AD 2.24.9-1 - 2	01 FEB 2018
UASU AD 2.24.14 - 1	23 FEB 2023	UASK AD 2.24.7-2 - 2	11 AUG 2022	UASZ AD 2.24.11-1 - 1	11 AUG 2022
UASU AD 2.24.14 - 2	11 AUG 2022	UASK AD 2.24.7-3 - 1	31 OCT 2024	UASZ AD 2.24.11-1 - 2	11 AUG 2022
AD-2-UAAL - 1	23 FEB 2023	UASK AD 2.24.7-3 - 2	11 AUG 2022	UASZ AD 2.24.12 - 1	11 AUG 2022
AD-2-UAAL - 2	05 OCT 2023	UASK AD 2.24.7-4 - 1	31 OCT 2024	UASZ AD 2.24.12 - 2	01 FEB 2018
AD-2-UAAL - 3	05 OCT 2023	UASK AD 2.24.7-4 - 2	11 AUG 2022	UASZ AD 2.24.14 - 1	23 FEB 2023
AD-2-UAAL - 4	23 FEB 2023	UASK AD 2.24.7-5 - 1	31 OCT 2024	UASZ AD 2.24.14 - 2	11 AUG 2022
AD-2-UAAL - 5	21 MAR 2024	UASK AD 2.24.7-5 - 2	16 MAY 2024	AD-2-UAKD - 1	08 AUG 2024
AD-2-UAAL - 6	08 AUG 2024	UASK AD 2.24.7-6 - 1	31 OCT 2024	AD-2-UAKD - 2	20 MAR 2025

Page	Date	Page	Date	Page	Date
AD-2-UAKD - 3	20 MAR 2025				
AD-2-UAKD - 4	15 MAY 2025				
AD-2-UAKD - 5	05 SEP 2024				
AD-2-UAKD - 6	23 JAN 2025				
AD-2-UAKD - 7	15 MAY 2025				
AD-2-UAKD - 8	15 MAY 2025				
AD-2-UAKD - 9	15 MAY 2025				
AD-2-UAKD - 10	15 MAY 2025				
AD-2-UAKD - 11	15 MAY 2025				
AD-2-UAKD - 12	15 MAY 2025				
UAKD AD 2.24.1 - 1	17 APR 2025				
UAKD AD 2.24.1 - 2	30 MAR 2017				
UAKD AD 2.24.3 - 1	20 MAR 2025				
UAKD AD 2.24.3 - 2	25 FEB 2021				
UAKD AD 2.24.4 - 1	10 JUL 2025				
UAKD AD 2.24.4 - 2	20 MAR 2025				
UAKD AD 2.24.7-1 - 1	15 MAY 2025				
UAKD AD 2.24.7-1 - 2	04 NOV 2021				
UAKD AD 2.24.7-2 - 1	11 JUL 2024				
UAKD AD 2.24.7-2 - 2	04 NOV 2021				
UAKD AD 2.24.7-3 - 1	11 JUL 2024				
UAKD AD 2.24.7-3 - 2	11 JUL 2024				
UAKD AD 2.24.7-4 - 1	11 JUL 2024				
UAKD AD 2.24.7-4 - 2	11 JUL 2024				
UAKD AD 2.24.9-1 - 1	11 JUL 2024				
UAKD AD 2.24.9-1 - 2	04 NOV 2021				
UAKD AD 2.24.9-2 - 1	11 JUL 2024				
UAKD AD 2.24.9-2 - 2	04 NOV 2021				
UAKD AD 2.24.9-3 - 1	05 SEP 2024				
UAKD AD 2.24.9-3 - 2	11 JUL 2024				
UAKD AD 2.24.9-4 - 1	11 JUL 2024				
UAKD AD 2.24.9-4 - 2	11 JUL 2024				
UAKD AD 2.24.10 - 1	11 JUL 2024				
UAKD AD 2.24.10 - 2	30 MAR 2017				
UAKD AD 2.24.11-1 - 1	31 OCT 2024				
UAKD AD 2.24.11-1 - 2	31 OCT 2024				
UAKD AD 2.24.11-2 - 1	31 OCT 2024				
UAKD AD 2.24.11-2 - 2	25 FEB 2021				
UAKD AD 2.24.11-3 - 1	31 OCT 2024				
UAKD AD 2.24.11-3 - 2	25 FEB 2021				
UAKD AD 2.24.11-4 - 1	11 JUL 2024				
UAKD AD 2.24.11-4 - 2	25 FEB 2021				
UAKD AD 2.24.11-5 - 1	11 JUL 2024				
UAKD AD 2.24.11-5 - 2	25 FEB 2021				
UAKD AD 2.24.11-6 - 1	31 OCT 2024				
UAKD AD 2.24.11-6 - 2	11 AUG 2022				
UAKD AD 2.24.11-7 - 1	11 JUL 2024				
UAKD AD 2.24.11-7 - 2	11 AUG 2022				
UAKD AD 2.24.11-8 - 1	11 JUL 2024				
UAKD AD 2.24.11-8 - 2	11 AUG 2022				
UAKD AD 2.24.12 - 1	05 SEP 2024				
UAKD AD 2.24.12 - 2	30 MAR 2017				
UAKD AD 2.24.14 - 1	11 JUL 2024				
UAKD AD 2.24.14 - 2	15 JUL 2021				



## GEN 2.5 LIST OF RADIO NAVIGATION AIDS

Decode			
ID	Station name	Aid	Purpose
AKT	AKTAU	DVOR/DME	AE
T	AKTAU	NDB	A
IAU	AKTAU	ILS/DME	A
ITA	AKTAU	ILS/DME	A
AKB	AKTOBE	DVOR/DME	AE
ITU	AKTOBE	ILS/DME	A
IAT	AKTOBE	ILS/DME	A
ATA	ALMATY	DVOR/DME	AE
IAA	ALMATY	ILS/DME	A
IMA	ALMATY	ILS/DME	A
ILM	ALMATY	ILS/DME	A
IAL	ALMATY	ILS/DME	A
ARL	ARALSK	DVOR/DME	E
ARK	ARKALYK	DVOR/DME	E
AST	ASTANA	DVOR/DME	AE
M	ASTANA	NDB	A
IAK	ASTANA	ILS/DME	A
IMO	ASTANA	ILS/DME	A
ATR	ATYRAU	DVOR/DME	AE
ITY	ATYRAU	ILS/DME	A
IAY	ATYRAU	ILS/DME	A
AGZ	AYAGUZ	VOR/DME	E
BLH	BALKHASH	DVOR/DME	AE
BNU	BEINEU	VOR/DME	E
JRK	JARKENT	VOR/DME	E
KRG	KARAGANDA	DVOR/DME	AE
IKA	KARAGANDA	ILS/DME	A
IRG	KARAGANDA	ILS/DME	A
KTU	KOKSHETAU	VOR/DME	AE
IOT	KOKSHETAU	ILS/DME	A
IKW	KOKSHETAU	ILS/DME	A
KST	KOSTANAY	DVOR/DME	AE
IKT	KOSTANAY	ILS/DME	A
INA	KOSTANAY	ILS/DME	A

Encode			
Station name	Aid	ID	Purpose
AKTAU	DVOR/DME	AKT	AE
AKTAU	NDB	T	A
AKTAU	ILS/DME	IAU	A
AKTAU	ILS/DME	ITA	A
AKTOBE	DVOR/DME	AKB	AE
AKTOBE	ILS/DME	ITU	A
AKTOBE	ILS/DME	IAT	A
ALMATY	DVOR/DME	ATA	AE
ALMATY	ILS/DME	IAA	A
ALMATY	ILS/DME	IMA	A
ALMATY	ILS/DME	ILM	A
ALMATY	ILS/DME	IAL	A
ARALSK	DVOR/DME	ARL	E
ARKALYK	DVOR/DME	ARK	E
ASTANA	DVOR/DME	AST	AE
ASTANA	NDB	M	A
ASTANA	ILS/DME	IAK	A
ASTANA	ILS/DME	IMO	A
ATYRAU	DVOR/DME	ATR	AE
ATYRAU	ILS/DME	ITY	A
ATYRAU	ILS/DME	IAY	A
AYAGUZ	VOR/DME	AGZ	E
BALKHASH	DVOR/DME	BLH	AE
BEINEU	VOR/DME	BNU	E
JARKENT	VOR/DME	JRK	E
KARAGANDA	DVOR/DME	KRG	AE
KARAGANDA	ILS/DME	IKA	A
KARAGANDA	ILS/DME	IRG	A
KOKSHETAU	VOR/DME	KTU	AE
KOKSHETAU	ILS/DME	IOT	A
KOKSHETAU	ILS/DME	IKW	A
KOSTANAY	DVOR/DME	KST	AE
KOSTANAY	ILS/DME	IKT	A
KOSTANAY	ILS/DME	INA	A

Decode			
ID	Station name	Aid	Purpose
KZO	KYZYLORDA	DVOR/DME	AE
IKZ	KYZYLORDA	ILS/DME	A
PVL	PAVLODAR	DVOR/DME	AE
IPW	PAVLODAR	ILS/DME	A
IPT	PETROPAVLOVSK	ILS/DME	A
PSK	PETROPAVLOVSK	DVOR/DME	AE
SEM	SEMEY	DVOR/DME	AE
ISP	SEMEY	ILS/DME	A
SMK	SHYMKENT	DVOR/DME	AE
SKN	SHYMKENT	NDB	A
IIM	SHYMKENT	ILS/DME	A
IEN	SHYMKENT	ILS/DME	A
TDK	TALDYKORGAN	DVOR/DME	AE
TAR	TARAZ	DVOR/DME	AE
IMB	TARAZ	ILS/DME	A
IYL	TARAZ	ILS/DME	A
TGZ	TENGIZ	VOR/DME	A
KI	TENGIZ	NDB	A
TRK	TURKISTAN	DVOR/DME	AE
ITR	TURKISTAN	ILS/DME	A
ITK	TURKISTAN	ILS/DME	A
URL	URALSK	DVOR/DME	AE
IUR	URALSK	ILS/DME	A
ISK	URALSK	ILS/DME	A
UGN	URDZHAR	NDB	AE
Ш	USHARAL	NDB	A
R	USHARAL	NDB	A
UKM	UST-KAMENOGORSK	DVOR/DME	AE
ISI	UST-KAMENOGORSK	ILS/DME	A
IUS	UST-KAMENOGORSK	ILS/DME	A
ZSN	ZAISAN	NDB	AE
DZG	ZHEZKAZGAN	DVOR/DME	AE
IGN	ZHEZKAZGAN	ILS/DME	A

Encode			
Station name	Aid	ID	Purpose
KYZYLORDA	DVOR/DME	KZO	AE
KYZYLORDA	ILS/DME	IKZ	A
PAVLODAR	DVOR/DME	PVL	AE
PAVLODAR	ILS/DME	IPW	A
PETROPAVLOVSK	ILS/DME	IPT	A
PETROPAVLOVSK	DVOR/DME	PSK	AE
SEMEY	DVOR/DME	SEM	AE
SEMEY	ILS/DME	ISP	A
SHYMKENT	DVOR/DME	SMK	AE
SHYMKENT	NDB	SKN	A
SHYMKENT	ILS/DME	IIM	A
SHYMKENT	ILS/DME	IEN	A
TALDYKORGAN	DVOR/DME	TDK	AE
TARAZ	DVOR/DME	TAR	AE
TARAZ	ILS/DME	IMB	A
TARAZ	ILS/DME	IYL	A
TENGIZ	VOR/DME	TGZ	A
TENGIZ	NDB	KI	A
TURKISTAN	DVOR/DME	TRK	AE
TURKISTAN	ILS/DME	ITR	A
TURKISTAN	ILS/DME	ITK	A
URALSK	DVOR/DME	URL	AE
URALSK	ILS/DME	IUR	A
URALSK	ILS/DME	ISK	A
URDZHAR	NDB	UGN	AE
USHARAL	NDB	Ш	A
USHARAL	NDB	R	A
UST-KAMENOGORSK	DVOR/DME	UKM	AE
UST-KAMENOGORSK	ILS/DME	ISI	A
UST-KAMENOGORSK	ILS/DME	IUS	A
ZAISAN	NDB	ZSN	AE
ZHEZKAZGAN	DVOR/DME	DZG	AE
ZHEZKAZGAN	ILS/DME	IGN	A

Decode			
ID	Station name	Aid	Purpose
ZN	ZHEZKAZGAN	NDB	A
ZKN	ZHEZKAZGAN	NDB	A

Encode			
Station name	Aid	ID	Purpose
ZHEZKAZGAN	NDB	ZN	A
ZHEZKAZGAN	NDB	ZKN	A

(A) Aerodrome aid  
(AE) Aerodrome and en-route aid

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Table 3: DOMESTIC CODES BETWEEN AIR TRAFFIC SERVICES

№	Departure aerodrome	Codes	№	Departure aerodrome	Codes
8	Uralsk	3570-3577	18	Zhezkazgan	7274-7277
9	Astana	7201-7217	19	Taldykorgan	7228-7229
10	Karaganda	7220-7227			

Table 4: DOMESTIC CODES BETWEEN FIRS OF REPUBLIC OF KAZAKHSTAN

№	FIR	Sector	Codes	№	FIR	Sector	Codes
1	Almaty	A1A	3701-3707	9	Aktobe	A5B	4570-4577
2	Almaty	A3A	3720-3727	10	Astana	A1C	4501-4507
3	Almaty	A4A	4540-4547	11	Astana	A2C	4510-4517
4	Almaty	A5A	3730-3737	12	Astana	A3C	4520-4527
5	Aktobe	A1B	3740-3747	13	Astana	A4C	4530-4537
6	Aktobe	A2B	3750-3757	14	Shymkent	A1I	3710-3717, 4560-4567
7	Aktobe	A3B	3760-3767	15	Shymkent	A2I	4550-4557
8	Aktobe	A4B	3770-3777				

Table 5: ALLOCATION OF CODES SERIES 00 BETWEEN ATS UNITS

№	FIR	Group of codes	Departure aerodrome	Codes
1	Astana	0,1	Astana	0001-0003
			Pavlodar	0004-0007
			Kokshetau	0010-0013
			Petropavlovsk	0014-0017
		2,3	Kostanay	0020-0027
			Arkalyk	0030-0037
		4,5	Zhezkazgan	0040-0047
			Karaganda	0050-0057
2	Almaty	2,3	Almaty	0020-0027
			Taldykorgan	0030-0037
		0	Balkhash	0001-0007
		6,7	Semey	0060-0063
			Ust-Kamenogorsk	0064-0067
			Urdzhar	0070-0071
			Usharal	0074-0077
			Zaisan	0072-0073

Table 5: ALLOCATION OF CODES SERIES 00 BETWEEN ATS UNITS

№	FIR	Group of codes	Departure aerodrome	Codes
3	Aktobe	0,1	Aktobe	0001-0007
			Uralsk	0010-0017
		2,3	Aktau	0020-0027
			Atyrau	0030-0037
		7	Aralsk	0070-0077
4	Shymkent	1,4,5,6	Shymkent	0040-0047
			Kyzylorda	0050-0057
			Taraz	0060-0067
			Turkistan	0010-0017

Table 6: SSR COVERAGE OPERATING IN RANGE OF INTERNATIONAL FREQUENCIES

SSR Points	SSR Type	Maximum Radius of coverage (NM)	Upper Limit (ft)	Coordinates	Remarks
Aktau	En-route and aerodrome mono-impulse	215	65000	N435146 E0510535	
Aktau	En-route and aerodrome mono-impulse	215	65000	N435146 E0510541	
Aktobe	En-route and aerodrome mono-impulse	215	65000	N501414 E0571235	
Aktobe	En-route and aerodrome mono-impulse	215	65000	N501416 E0571237	
Almaty	En-route, mono-impulse	215	65000	N432113 E0770145	
Almaty	En-route and aerodrome mono-impulse	215	65000	N432117 E0770145	
Atyrau	En-route, mono-impulse	215	65000	N470641 E0514735	
Atyrau	En-route and aerodrome mono-impulse	215	65000	N470716 E0514857	
Aralsk	En-route, mono-impulse	215	65000	N464937 E0613720	
Arkalyk	En-route, mono-impulse	215	65000	N501905 E0670131	

## ENR-3.2.1 "L" ROUTES

## 1. NAVIGATION SPECIFICATION

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

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L26 (RNAV 5)						
▲ AKTOBE DVOR/ DME (AKB)	501548N 0571055E					
	086° 267°	44.1 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 120.9 MHZ {C}
△ OMITO	501033N 0581909E					
	AKB 086.0° 44.1 NM (700 FT)					
	086° 268°	68.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
△ KESOT	500111N 0600343E					
	AKB 088.0° 112.1 NM (700 FT)					
	088° 270°	96.5 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
▲ BEKOR (FIR BDRY)	494513N 0623050E					
	ARK 247.0° 177.6 NM (1300 FT)					
	090° 271°	38.5 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ TIBDA	493800N 0632900E					
	ARK 242.0° 143.1 NM (1300 FT)					
	096° 278°	60.3 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ ARBIM	492045N 0645739E					
	ARK 223.0° 99.1 NM (1300 FT)					
	098° 279°	79.9 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ UMDEM	485611N 0665322E					
	DZG 325.0° 80.9 NM (1300 FT)					
	099° 280°	22.0 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}

Route designator		[Route Usage Notes]						
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks		
				↓	↑			
△ GORIM	484905N 0672456E <b>DZG</b> <b>339.0° 67.3 NM</b> <b>(1300 FT)</b>							
	100° 281°	38.2 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}		
△ AKITU	483624N 0681921E <b>DZG</b> <b>014.0° 57.7 NM</b> <b>(1300 FT)</b>							
	101° 281°	12.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}		
△ MAKUT	483217N 0683632E <b>DZG</b> <b>026.0° 59.7 NM</b> <b>(1300 FT)</b>							
	101° 282°	33.9 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}		
△ DITKI	482034N 0692417E <b>DZG</b> <b>052.0° 76.0 NM</b> <b>(1300 FT)</b>							
	102° 283°	60.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}		
▲ KUROL	475900N 0704800E <b>DZG</b> <b>075.0° 123.8 NM</b> <b>(1300 FT)</b>							
	101° 282°	44.2 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}		
▲ UNABO (FIR BDRY)	474352N 0714935E <b>KRG</b> <b>198.0° 132.6 NM</b> <b>(1800 FT)</b>							
	102° 284°	61.9 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 125.5 MHZ {C}		
▲ TOGDI	472143N 0731457E <b>BLH</b> <b>284.0° 76.7 NM</b> <b>(1400 FT)</b>							
	104° 285°	33.4 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 125.5 MHZ {C}		
△ NEPLA	470920N 0740031E <b>BLH</b> <b>285.0° 43.2 NM</b> <b>(1400 FT)</b>							
	105° 286°	43.3 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 125.5 MHZ BALKHASH TOWER 128.0 MHZ {C}		



Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
▲ BALKHASH DVOR/DME (BLH)	465259N 0745902E				
	101° 282°	61.4 NM	FL 510 FL 120	Odd   Even	ALMATY ACC 125.5 MHZ BALKHASH TOWER 128.0 MHZ {C}
△ SUBAN	463355N 0762353E <b>BLH</b> <b>102.0° 61.4 NM</b> <b>(1400 FT)</b>				
	102° 282°	14.4 NM	FL 510 FL 120	Odd   Even	ALMATY ACC 125.5 MHZ {C}
▲ NIPAL	462919N 0764342E <b>BLH</b> <b>102.0° 75.8 NM</b> <b>(1400 FT)</b>				
	102° 283°	39.5 NM	FL 510 FL 120	Odd   Even	ALMATY ACC 133.1 MHZ {C}
▲ GENGA	461625N 0773739E <b>TDK</b> <b>328.0° 77.8 NM</b> <b>(2000 FT)</b>				
	098° 280°	94.7 NM	FL 510 FL 120	Odd   Even	ALMATY ACC 133.1 MHZ {C}
▲ RIKPI	455225N 0794910E <b>TDK</b> <b>047.0° 74.6 NM</b> <b>(2000 FT)</b>				
	100° 280°	14.6 NM	FL 510 FL 120	Odd   Even	ALMATY ACC 133.1 MHZ {C}
▲ ALILA	454830N 0800916E <b>TDK</b> <b>055.0° 84.1 NM</b> <b>(2000 FT)</b>				
	100° 281°	37.8 NM	FL 510 FL 120	Odd   Even	ALMATY ACC 133.1 MHZ {C}
▲ OGADO	453804N 0810107E <b>JRK</b> <b>024.0° 95.7 NM</b> <b>(2600 FT)</b>				
	102° 283°	70.7 NM	FL 510 FL 160	Odd   Even	ALMATY ACC 133.1 MHZ {C}
▲ BAMAN (FIR BDRY)	451700N 0823700E <b>JRK</b> <b>057.0° 130.2 NM</b> <b>(2600 FT)</b>				For continuation, see AIP China

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L51 (RNAV 5)						
▲ ATYRAU DVOR/ DME (ATR)	470838N 0514805E					
	072° 253°	43.3 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ ATYRAU TOWER 118.1 MHZ {C}
△ BASPU	471514N 0525046E <b>ATR</b> <b>073.0° 43.2 NM</b> <b>(0 FT)</b>					
	073° 254°	56.6 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
△ EPOLI	472234N 0541316E <b>ATR</b> <b>074.0° 99.9 NM</b> <b>(0 FT)</b>					
	073° 253°	31.8 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
△ LANIN	472659N 0545937E <b>BNU</b> <b>349.0° 126.8 NM</b> <b>(0 FT)</b>					
	074° 255°	26.7 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
△ ODPUT	473004N 0553846E <b>BNU</b> <b>001.0° 131.5 NM</b> <b>(0 FT)</b>					
	075° 255°	29.2 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
▲ LUKET	473310N 0562135E <b>BNU</b> <b>013.0° 142.4 NM</b> <b>(0 FT)</b>					
	075° 256°	51.9 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
△ UDATO	473801N 0573755E <b>AKB</b> <b>163.0° 158.9 NM</b> <b>(700 FT)</b>					
	076° 257°	64.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
▲ RUGUS	474250N 0591219E <b>ARL</b> <b>289.0° 112.1 NM</b> <b>(300 FT)</b>					
	078° 259°	37.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119 MHZ {C}

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

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ LASNA	492602N 0815315E <b>UKM</b> <b>207.0° 43.3 NM</b> <b>(1000 FT)</b>					
	027° 208°	43.3 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ UST-KAMENOGORSK TOWER 130.1 MHZ {C}
▲ UST-KAMENOGORSK DVOR/DME (UKM)	500158N 0823031E					
	029° 209°	43.0 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ UST-KAMENOGORSK TOWER 130.1 MHZ {C}
△ BANOV	503704N 0830918E <b>UKM</b> <b>029.0° 43.0 NM</b> <b>(1000 FT)</b>					
	030° 210°	25.6 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
▲ BOKIS (FIR BDRY)	505736N 0833312E <b>UKM</b> <b>030.0° 68.6 NM</b> <b>(1000 FT)</b>					<b>For continuation, see AIP Russia</b>

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L139 (RNAV 5)						
▲ TULGA (FIR BDRY)	415347N 0701204E <b>SMK</b> <b>124.0° 44.3 NM</b> <b>(1400 FT)</b>					<b>Before, see AIP Uzbekistan</b>
	307° 127°	23.5 NM	FL 510 FL 160	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
△ ADESA	420940N 0694854E <b>SMK</b> <b>121.0° 20.9 NM</b> <b>(1400 FT)</b>					
	302° 122°	20.9 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ SHYMKENT TOWER 125.9 MHZ {C}

Route designator		[Route Usage Notes]						
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks		
				↓	↑			
▲ SHYMKENT DVOR/DME (SMK)		422220N 0692631E						
	316° 135°	30.0 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ SHYMKENT TOWER 125.9 MHZ {C}		
△ RUSEK		424549N 0690116E <b>SMK</b> <b>316.0° 30.0 NM</b> <b>(1400 FT)</b>						
	312° 132°	10.5 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ SHYMKENT TOWER 125.9 MHZ {C}		
▲ MAGOL		425338N 0685144E <b>TRK</b> <b>148.0° 28.7 NM</b> <b>(1000 FT)</b>						
	312° 132°	32.7 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ TURKISTAN TOWER 131.3 MHZ {C}		
▲ GENDI		431800N 0682200E <b>TRK</b> <b>254.0° 9.4 NM</b> <b>(1000 FT)</b>						
	300° 119°	24.3 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ TURKISTAN TOWER 131.3 MHZ {C}		
▲ KUDUG		433216N 0675457E <b>TRK</b> <b>287.0° 31.7 NM</b> <b>(1000 FT)</b>						
	299° 119°	22.7 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ TURKISTAN TOWER 131.3 MHZ {C}		
△ GIMRI		434530N 0672931E <b>TRK</b> <b>292.0° 54.1 NM</b> <b>(1000 FT)</b>						
	299° 118°	56.3 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}		
△ GITIM		441752N 0662540E <b>KZO</b> <b>116.0° 44.1 NM</b> <b>(500 FT)</b>						
	296° 116°	44.1 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}		
▲ KYZYLORDA DVOR/DME (KZO)		444145N 0653349E						

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	291° 110°	28.5 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}
△ BUDET	445507N 0645824E <b>KZO</b> <b>290.0° 28.5 NM</b> <b>(500 FT)</b>					
	288° 108°	13.6 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}
△ AGMUR	450056N 0644106E <b>KZO</b> <b>289.0° 42.1 NM</b> <b>(500 FT)</b>					
	288° 105°	118.6 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ INKUM	454952N 0620739E <b>ARL</b> <b>151.0° 63.3 NM</b> <b>(300 FT)</b>					
	276° 096°	30.9 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ SANUR (FIR BDRY)	455717N 0612446E <b>ARL</b> <b>180.0° 53.0 NM</b> <b>(300 FT)</b>					
	276° 094°	72.5 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ {C}
▲ ABDUN	461337N 0594316E <b>ARL</b> <b>236.0° 86.4 NM</b> <b>(300 FT)</b>					
	274° 093°	40.7 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ {C}
△ NINAG	462208N 0584556E <b>ARL</b> <b>249.0° 121.4 NM</b> <b>(300 FT)</b>					
	273° 092°	87.9 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ {C}
▲ TISRA	463851N 0564100E <b>BNU</b> <b>032.0° 102.1 NM</b> <b>(0 FT)</b>					
	272° 090°	58.4 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 130.9 MHZ {C}
△ PEMOL	464841N 0551720E <b>BNU</b> <b>356.0° 88.6 NM</b> <b>(0 FT)</b>					

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	270° 090°	29.8 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 130.9 MHZ {C}
△ RIKRI	465319N 0543423E <b>BNU</b> <b>338.0° 95.7 NM</b> <b>(0 FT)</b>					
	270° 089°	30.9 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 130.9 MHZ {C}
△ LEPSI	465750N 0534950E <b>ATR</b> <b>089.0° 83.9 NM</b> <b>(0 FT)</b>					
	269° 089°	40.7 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 130.9 MHZ {C}
△ GOGDI	470320N 0525055E <b>ATR</b> <b>088.0° 43.2 NM</b> <b>(0 FT)</b>					
	269° 088°	43.3 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 130.9 MHZ ATYRAU TOWER 118.1 MHZ {C}
▲ ATYRAU DVOR/ DME (ATR)	470838N 0514805E					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L143 (RNAV 5)						
▲ SULET (FIR BDRY)	430602N 0743503E <b>ATA</b> <b>257.2° 110.9 NM</b> <b>(2200 FT)</b>				Before, see AIP Kyrgyzstan	
	050° 230°	28.6 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ {C}
▲ UML0D	432218N 0750715E <b>ATA</b> <b>265.4° 85.9 NM</b> <b>(2200 FT)</b>					
	043° 223°	5.8 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ {C}
△ BINRI	432607N 0751309E <b>ATA</b> <b>268.1° 81.7 NM</b> <b>(2200 FT)</b>					

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
	043° 223°	18.1 NM	FL 510 FL 120	Odd   Even	ALMATY ACC 131.4 MHZ {C}
△ TIPSA	433809N 0753149E <b>ATA</b> <b>278.4° 69.7 NM</b> <b>(2200 FT)</b>				
	054° 235°	23.8 NM	FL 510 FL 120	Odd   Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ REGMU	435005N 0760012E <b>ATA</b> <b>295.6° 54.6 NM</b> <b>(2200 FT)</b>				
	055° 235°	16.6 NM	FL 510 FL 120	Odd   Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
▲ ADABA	435820N 0762009E <b>ATA</b> <b>312.8° 48.5 NM</b> <b>(2200 FT)</b>				
	016° 196°	23.7 NM	FL 510 FL 120	Odd   Even	ALMATY ACC 133.1 MHZ ALMATY APPROACH 124.8 MHZ {C}
▲ ETEDA	442024N 0763206E <b>ATA</b> <b>332.6° 62.6 NM</b> <b>(2200 FT)</b>				
	016° 196°	89.3 NM	FL 510 FL 120	Odd   Even	ALMATY ACC 133.1 MHZ {C}
△ AKIRA	454323N 0771829E <b>TDK</b> <b>302.0° 60.2 NM</b> <b>(2000 FT)</b>				
	016° 196°	35.6 NM	FL 510 FL 120	Odd   Even	ALMATY ACC 133.1 MHZ {C}
▲ GENGA	461625N 0773739E <b>TDK</b> <b>328.0° 77.8 NM</b> <b>(2000 FT)</b>				
	016° 196°	24.9 NM	FL 510 FL 120	Odd   Even	ALMATY ACC 133.1 MHZ {C}
▲ AGNAT	463927N 0775115E <b>TDK</b> <b>340.0° 96.2 NM</b> <b>(2000 FT)</b>				
	016° 196°	59.3 NM	FL 510 FL 120	Odd   Even	ALMATY ACC 132.1 MHZ {C}



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

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
<b>L143</b> <b>(RNAV 5)</b>					
▲ UVASU	404236N 0681306E <b>SMK</b> <b>203.0° 113.9 NM</b> <b>(1400 FT)</b>				<b>Before, see AIP Uzbekistan</b>
	068° 248°	16.2 NM	FL 510 FL 80	Odd   Even	TASHKENT ACC {C}
▲ RAVOB	404718N 0683330E <b>SMK</b> <b>196.0° 103.0 NM</b> <b>(1400 FT)</b>				<b>For continuation, see AIP Uzbekistan</b>

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L145 (RNAV 5)						
▲ DEMAS (FIR BDRY)	424732N 0712008E <b>TAR</b> <b>147.0° 5.3 NM</b> <b>(2200 FT)</b>					<b>Before, see AIP Kyrgyzstan</b>
	327° 147°	5.3 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ TARAZ APPROACH 122.1 MHZ {C}
▲ TARAZ DVOR/ DME (TAR)	425214N 0711654E					
	329° 148°	42.9 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ TARAZ APPROACH 122.1 MHZ {C}
▲ ARBOL	433055N 0705137E <b>TAR</b> <b>329.0° 42.9 NM</b> <b>(2200 FT)</b>					
	328° 147°	44.9 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
△ GAMBU	441106N 0702401E <b>TAR</b> <b>328.0° 87.7 NM</b> <b>(2200 FT)</b>					
	327° 146°	7.4 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
△ INLIG	441743N 0701919E <b>TAR</b> <b>328.0° 94.9 NM</b> <b>(2200 FT)</b>					
	326° 145°	75.0 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
▲ MIRGA (FIR BDRY)	452416N 0693051E <b>TRK</b> <b>012.0° 131.1 NM</b> <b>(1000 FT)</b>					
	325° 145°	42.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓      ↑		Controlling unit {Airspace class} Remarks
△ OBAMA	460212N 0690233E <b>DZG</b> <b>144.0° 114.0 NM</b> <b>(1300 FT)</b>					
	326° 144°	70.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ ASLIK	470509N 0681542E <b>DZG</b> <b>143.0° 43.3 NM</b> <b>(1300 FT)</b>					
	324° 143°	43.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
▲ ZHEZKAZGAN DVOR/DME (DZG)	474317N 0674542E					
	327° 146°	43.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
△ ADOKA	482224N 0671842E <b>DZG</b> <b>326.0° 43.1 NM</b> <b>(1300 FT)</b>					
	325° 144°	37.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ UMDEM	485611N 0665322E <b>DZG</b> <b>325.0° 80.9 NM</b> <b>(1300 FT)</b>					
	327° 146°	53.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ SUKUR	494431N 0661957E <b>ARK</b> <b>207.0° 43.7 NM</b> <b>(1300 FT)</b>					
	323° 143°	27.4 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
▲ BULOG	500854N 0660036E <b>ARK</b> <b>245.0° 40.3 NM</b> <b>(1300 FT)</b>					
	324° 144°	14.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
▲ KUSOT	502128N 0655110E <b>ARK</b> <b>262.0° 45.0 NM</b> <b>(1300 FT)</b>					
	324° 142°	92.4 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ KUSUM	514420N 0644639E <b>KST</b> <b>141.0° 97.8 NM</b> <b>(600 FT)</b>					
	323° 142°	34.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ ARDIK	521459N 0642204E <b>KST</b> <b>140.0° 63.5 NM</b> <b>(600 FT)</b>					
	321° 140°	63.5 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}
▲ KOSTANAY DVOR/DME (KST)	531113N 0633346E					
	318° 137°	63.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}
▲ LANOR (FIR BDRY)	540536N 0624042E <b>KST</b> <b>318.0° 63.0 NM</b> <b>(600 FT)</b>					<b>For continuation, see AIP Russia</b>

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

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	301° 120°	41.9 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
△ INDAG	440635N 0725812E <b>TAR</b> <b>038.0° 104.8 NM</b> <b>(2200 FT)</b>					
	300° 120°	19.7 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
△ RITMU	441806N 0723603E <b>TAR</b> <b>028.0° 103.3 NM</b> <b>(2200 FT)</b>					
	300° 118°	98.8 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
▲ PABRI (FIR BDRY)	451455N 0704239E <b>TAR</b> <b>344.0° 144.8 NM</b> <b>(2200 FT)</b>					
	298° 116°	84.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ OBAMA	460212N 0690233E <b>DZG</b> <b>144.0° 114.0 NM</b> <b>(1300 FT)</b>					
	296° 115°	56.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ ELSEB	463234N 0675439E <b>DZG</b> <b>166.0° 71.0 NM</b> <b>(1300 FT)</b>					
	294° 114°	11.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ TUTUL	463825N 0674057E <b>DZG</b> <b>174.0° 65.0 NM</b> <b>(1300 FT)</b>					
	295° 114°	27.4 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ ATRUS	465302N 0670715E <b>DZG</b> <b>199.0° 56.7 NM</b> <b>(1300 FT)</b>					
	293° 113°	7.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ GISIR	465704N 0665732E <b>DZG</b> <b>206.0° 56.7 NM</b> <b>(1300 FT)</b>					

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	294° 112°	53.5 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ TIROK	472456N 0655037E <b>DZG</b> <b>247.0° 80.1 NM</b> <b>(1300 FT)</b>					
	292° 111°	44.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ SUBOL	474716N 0645433E <b>DZG</b> <b>262.0° 115.5 NM</b> <b>(1300 FT)</b>					
	291° 109°	102.6 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
▲ GEDSA (FIR BDRY)	483738N 0624054E <b>ARL</b> <b>013.0° 116.4 NM</b> <b>(300 FT)</b>					
	287° 105°	84.2 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
△ MANAD	491421N 0604601E <b>ARL</b> <b>338.0° 148.9 NM</b> <b>(300 FT)</b>					
	285° 104°	42.9 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
△ AGATU	493220N 0594622E <b>AKB</b> <b>104.0° 109.5 NM</b> <b>(700 FT)</b>					
	284° 104°	24.6 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
△ ENETO	494223N 0591154E <b>AKB</b> <b>103.0° 84.9 NM</b> <b>(700 FT)</b>					
	284° 103°	43.1 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
△ RIGDO	495937N 0581049E <b>AKB</b> <b>102.0° 41.8 NM</b> <b>(700 FT)</b>					
	283° 102°	41.8 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 120.9 MHZ {C}
▲ AKTOBE DVOR/ DME (AKB)	501548N 0571055E					

Route designator		[Route Usage Notes]							
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks		
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit		FL series		Controlling unit {Airspace class} Remarks		
					↓	↑			
L162 (RNAV 5)									
▲ ODIVA (FIR BDRY)		423530N 0640848E <b>KZO</b> <b>198.0° 140.5 NM</b> <b>(500 FT)</b>					Before, see AIP Uzbekistan		
	330° 149°	60.0 NM	FL 510 FL 120		Even	Odd	SHYMKENT ACC 127.3 MHZ {C}		
△ NITNA		433032N 0633601E <b>KZO</b> <b>222.0° 110.8 NM</b> <b>(500 FT)</b>							
	329° 149°	10.0 NM	FL 510 FL 120		Even	Odd	SHYMKENT ACC 127.3 MHZ {C}		
▲ DIDOP		433941N 0633027E <b>KZO</b> <b>227.0° 108.3 NM</b> <b>(500 FT)</b>							
	329° 149°	17.3 NM	FL 510 FL 120		Even	Odd	SHYMKENT ACC 127.3 MHZ {C}		
△ TIPEN		435532N 0632045E <b>KZO</b> <b>236.0° 106.1 NM</b> <b>(500 FT)</b>							
	329° 149°	18.6 NM	FL 510 FL 120		Even	Odd	SHYMKENT ACC 127.3 MHZ {C}		
△ ZURGO		441233N 0631012E <b>KZO</b> <b>248.0° 106.9 NM</b> <b>(500 FT)</b>							
	329° 148°	64.1 NM	FL 510 FL 120		Even	Odd	SHYMKENT ACC 127.3 MHZ {C}		
▲ TUKNA		451058N 0623308E <b>ARL</b> <b>150.0° 106.1 NM</b> <b>(300 FT)</b>							
	327° 147°	42.8 NM	FL 510 FL 120		Even	Odd	SHYMKENT ACC 127.3 MHZ {C}		
▲ INKUM		454952N 0620739E <b>ARL</b> <b>151.0° 63.3 NM</b> <b>(300 FT)</b>							
	329° 149°	27.3 NM	FL 510 FL 120		Even	Odd	SHYMKENT ACC 127.3 MHZ {C}		
▲ NIRAN (FIR BDRY)		461504N 0615245E <b>ARL</b> <b>154.0° 36.1 NM</b> <b>(300 FT)</b>							

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

Route designator		[Route Usage Notes]						
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks		
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks		
				↓	↑			
L163 (RNAV 5)								
▲ RODRO		411433N 0690034E <b>SMK</b> <b>190.0° 70.5 NM</b> <b>(1400 FT)</b>					Before, see AIP Uzbekistan	
	306° 126°	12.7 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}		
▲ DODUR (FIR BDRY)		412300N 0684800E <b>SMK</b> <b>200.0° 65.9 NM</b> <b>(1400 FT)</b>						
	320° 139°	47.4 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}		



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

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

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

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	011° 191°	72.0 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}
△ OLINA	451645N 0615140E <b>ARL</b> <b>165.0° 93.4 NM</b> <b>(300 FT)</b>					
	011° 190°	35.0 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}
▲ INKUM	454952N 0620739E <b>ARL</b> <b>151.0° 63.3 NM</b> <b>(300 FT)</b>					
	359° 179°	33.4 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ RESBA (FIR BDRY)	462255N 0621359E <b>ARL</b> <b>128.0° 36.8 NM</b> <b>(300 FT)</b>					
	359° 178°	136.0 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ {C}
▲ GEDSA (FIR BDRY)	483738N 0624054E <b>ARL</b> <b>013.0° 116.4 NM</b> <b>(300 FT)</b>					
	357° 176°	86.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
▲ GEMBO	500256N 0625600E <b>ARK</b> <b>252.0° 158.5 NM</b> <b>(1300 FT)</b>					
	356° 176°	20.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ EMBEK	502333N 0625947E <b>ARK</b> <b>263.0° 154.8 NM</b> <b>()</b>					
	356° 176°	44.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ GUMGA	510752N 0630806E <b>KST</b> <b>175.0° 124.7 NM</b> <b>(600 FT)</b>					
	356° 175°	65.9 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ BUDER	521310N 0632052E <b>KST</b> <b>176.0° 58.6 NM</b> <b>(600 FT)</b>					

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	356° 176°	58.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}
▲ KOSTANAY DVOR/DME (KST)		531113N 0633346E				
	008° 189°	73.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}
▲ NELTI (FIR BDRY)		541942N 0641630E <b>KST</b> <b>008.0° 73.1 NM</b> <b>(600 FT)</b>				<b>For continuation, see AIP Russia</b>

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L170 (RNAV 5)						
▲ VAMUK (FIR BDRY)	403400.0N 0683430.0E <b>SMK</b> <b>194.0° 115.1 NM</b> <b>(1400 FT)</b>					<b>Before, see AIP Uzbekistan</b>
	014° 194°	8.8 NM	FL 510 FL 30	Odd	Even	TASHKENT ACC {C}
▲ AKAZU (FIR BDRY)	404218N 0683815E <b>SMK</b> <b>194.0° 106.4 NM</b> <b>(1400 FT)</b>					<b>For continuation, see AIP Uzbekistan</b>

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation			Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L728 (RNAV 5)						
▲ OGTOL (FIR BDRY)		424905N 0733002E <b>TAR</b> <b>087.0° 98.0 NM</b> <b>(2200 FT)</b>				
	272° 091°	12.2 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ PILEL	425035N 0731336E <b>TAR</b> <b>085.0° 85.9 NM</b> <b>(2200 FT)</b>					
	271° 090°	62.0 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
△ GERPU	425739N 0714951E <b>TAR</b> <b>072.0° 24.8 NM</b> <b>(2200 FT)</b>					
	303° 122°	54.0 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ TARAZ APPROACH 122.1 MHZ {C}
▲ ARBOL	433055N 0705137E <b>TAR</b> <b>329.0° 42.9 NM</b> <b>(2200 FT)</b>					
	296° 114°	98.8 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
▲ TUROK	442214N 0685447E <b>TRK</b> <b>007.0° 64.3 NM</b> <b>(1000 FT)</b>					
	312° 129°	191.6 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ LUGER (FIR BDRY)	464426N 0655200E <b>DZG</b> <b>223.0° 97.3 NM</b> <b>(1300 FT)</b>					
	304° 123°	47.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ BAGED	471628N 0650016E <b>DZG</b> <b>249° 115.2 NM</b> <b>(1300 FT)</b>					
	303° 121°	124.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
▲ GEDSA (FIR BDRY)	483738N 0624054E <b>ARL</b> <b>013.0° 116.4 NM</b> <b>(300 FT)</b>					
	281° 097°	200.9 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
△ ODILA	494259N 0575122E <b>AKB</b> <b>131.0° 41.9 NM</b> <b>(700 FT)</b>					
	276° 093°	132.3 NM	FL 510 FL 160	Even	Odd	AKTOBE ACC 129.6 MHZ {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓      ↑	Controlling unit {Airspace class} Remarks
▲ SIVKO	501827N 0543349E <b>AKB</b> <b>260.0° 100.8 NM</b> <b>(700 FT)</b>				

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

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

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	271° 091°	40.8 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ DIKAM	443650N 0663555E <b>KZO</b> <b>089.0° 44.6 NM</b> <b>(500 FT)</b>					
	270° 089°	44.6 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}
▲ KYZYLORDA DVOR/DME (KZO)	444145N 0653349E					
	238° 057°	45.1 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}
△ BADAS	442221N 0643656E <b>KZO</b> <b>237.0° 45.1 NM</b> <b>(500 FT)</b>					
	237° 057°	21.2 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ ERTUZ	441307N 0641019E <b>KZO</b> <b>238.0° 66.3 NM</b> <b>(500 FT)</b>					
	237° 056°	39.8 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ TIPEN	435532N 0632045E <b>KZO</b> <b>236.0° 106.1 NM</b> <b>(500 FT)</b>					
	236° 056°	25.0 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ ADAKA	434416N 0624955E <b>KZO</b> <b>236.0° 131.1 NM</b> <b>(500 FT)</b>					
	236° 056°	36.9 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ TIGTA (FIR BDRY)	432728N 0620446E <b>KZO</b> <b>235.0° 168.0 NM</b> <b>(500 FT)</b>					<b>For continuation, see AIP Uzbekistan</b>



Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L864 (RNAV 5)						
▲ ITAKA (FIR BDRY)	435224N 0493000E					
	020°	60.7 NM	FL 510 FL 210	Odd		AKTOBE ACC 134.3 MHZ {C}
△ ATNUR	444559N 0500948E					
	349°	65.3 NM	FL 510 FL 220	Even		AKTOBE ACC 134.3 MHZ {C}
▲ URABU	455108N 0500407E					
	348°	45.5 NM	FL 510 FL 220	Even		AKTOBE ACC 130.9 MHZ {C}
△ DIMPA	463633N 0495959E					
	347°	149.0 NM	FL 510 FL 220	Even		AKTOBE ACC 130.9 MHZ {C}
▲ TOZIS	490511N 0494538E					
	346°	121.9 NM	FL 510 FL 220	Even		AKTOBE ACC 131.4 MHZ {C}
▲ POMNI (FIR BDRY)	510638N 0493240E					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L985 (RNAV 5)						

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑		Controlling unit {Airspace class} Remarks
AKALI (FIR BDRY) ▲	440829N 0611937E		ARL 175.0° 161.5 NM (300 FT)		Before, see AIP Uzbekistan	
	358° 178°	45.5 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
LATNU △	445345N 0612553E		ARL 175.0° 116.1 NM (300 FT)			
	352° 171°	63.5 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
SANUR (FIR BDRY) ▲	455717N 0612446E		ARL 180.0° 53.0 NM (300 FT)			
	357° 177°	52.2 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ {C}
△ UZLOR	464915N 0613205E		ARL 257.0° 3.4 NM (300 FT)			
	357° 176°	96.2 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ {C}
ADLIK ▲	482457N 0614611E		ARL 355.0° 95.7 NM (300 FT)			
	354° 173°	135.9 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
RAVNI (FIR BDRY) ▲	504030N 0615807E		KST 188.0° 162.1 NM (600 FT)			
	356° 175°	158.2 NM	FL 510 FL 210	Even	Odd	ASTANA ACC 133.1 MHZ {C}
LODEZ △	531715N 0623004E		KST 268.0° 38.7 NM (600 FT)			
	355° 175°	48.8 NM	FL 510 FL 210	Even	Odd	ASTANA ACC 133.1 MHZ {C}
LANOR (FIR BDRY) ▲	540536N 0624042E		KST 318.0° 63.0 NM (600 FT)		For continuation, see AIP Russia	

Route designator		[Route Usage Notes]					
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks	
				↓	↑		
L988 (RNAV 5)							
▲ OBATA (FIR BDRY)		462130N 0491148E <b>ATR</b> <b>236.0° 117.4 NM</b> <b>(0 FT)</b>				Before, see AIP Russia	
	057° 237°	36.5 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}	
△ DIMPA		463633N 0495959E <b>ATR</b> <b>238.2° 80.8 NM</b> <b>(0 FT)</b>					
	057° 238°	37.7 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}	
△ TUGLA		465142N 0505006E <b>ATR</b> <b>237.0° 43.2 NM</b> <b>(0 FT)</b>					
	058° 239°	43.2 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ ATYRAU TOWER 118.1 MHZ {C}	
▲ ATYRAU DVOR/ DME (ATR)		470838N 0514805E					
	059° 239°	43.2 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ ATYRAU TOWER 118.1 MHZ {C}	
△ GISTO		472457N 0524654E <b>ATR</b> <b>059.0° 43.2 NM</b> <b>(0 FT)</b>					
	059° 240°	86.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}	
△ KODUM		475556N 0544537E <b>ATR</b> <b>061.0° 129.2 NM</b> <b>(0 FT)</b>					
	048° 229°	42.8 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}	
▲ ALABA		481845N 0553938E <b>AKB</b> <b>196.0° 131.5 NM</b> <b>(700 FT)</b>					
	060° 241°	76.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}	
△ ERKIS		484421N 0572756E <b>AKB</b> <b>162.0° 92.0 NM</b> <b>(700 FT)</b>					
	061° 245°	207.6 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}	

Route designator		[Route Usage Notes]						
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks		
				↓	↑			
▲ BEKOR (FIR BDRY)	494513N 0623050E <b>ARK</b> <b>247.0° 177.6 NM</b> <b>(1300 FT)</b>							
	065° 246°	87.4 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}		
▲ LAMGI	500657N 0644154E <b>ARK</b> <b>251.0° 90.3 NM</b> <b>(1300 FT)</b>							
	068° 251°	134.3 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ {C}		
▲ TUSEP	503136N 0680751E <b>ARK</b> <b>064.0° 44.4 NM</b> <b>(1300 FT)</b>							
	066° 248°	74.0 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ {C}		
△ OSROL	504818N 0700112E <b>AST</b> <b>248.0° 55.0 NM</b> <b>(1200 FT)</b>							
	065° 245°	29.4 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}		
△ APTUS	505558N 0704601E <b>AST</b> <b>251.0° 25.6 NM</b> <b>(1200 FT)</b>							
	071° 251°	25.6 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}		
▲ ASTANA DVOR/ DME (AST)	510006N 0712600E							
	065° 246°	58.9 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}		
△ BOLSU	511507N 0725620E <b>AST</b> <b>066.0° 58.9 NM</b> <b>(1200 FT)</b>							
	066° 248°	88.0 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ {C}		
▲ ABELI	513524N 0751312E <b>PVL</b> <b>232.0° 79.0 NM</b> <b>(500 FT)</b>							
	074° 255°	62.6 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ PAVLODAR TOWER 119.8 MHZ {C}		

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

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
<b>L992</b> (RNAV 5)						
▲ TIROM (FIR BDRY)	421434N 0531720E <b>AKT</b> <b>128.0° 138.3 NM</b> <b>(100 FT)</b>				<b>Before, see AIP Russia and CIS</b>	
	009° 189°	48.1 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
△ ARNUS	430052N 0533509E <b>AKT</b> <b>107.0° 121.6 NM</b> <b>(100 FT)</b>					
	009° 189°	30.5 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
△ BAPER	433011N 0534642E <b>AKT</b> <b>094.0° 120.2 NM</b> <b>(100 FT)</b>					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	009° 189°	23.8 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
△ RINIT	435305N 0535549E <b>BNU</b> <b>202.0° 101.2 NM</b> <b>(0 FT)</b>					
	009° 189°	59.9 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
▲ BODSI	445034N 0541914E <b>BNU</b> <b>220.0° 45.3 NM</b> <b>(0 FT)</b>					
	011° 191°	44.1 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
△ AGNIM	453221N 0543918E <b>BNU</b> <b>293.0° 23.1 NM</b> <b>(0 FT)</b>					
	011° 191°	18.1 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
▲ NESDO	454926N 0544739E <b>BNU</b> <b>326.0° 32.2 NM</b> <b>(0 FT)</b>					
	011° 191°	62.7 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
△ PEMOL	464841N 0551720E <b>BNU</b> <b>356.0° 88.6 NM</b> <b>(0 FT)</b>					
	011° 191°	43.9 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
△ ODPUT	473004N 0553846E <b>BNU</b> <b>001.0° 131.5 NM</b> <b>(0 FT)</b>					
	011° 190°	33.6 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
▲ ABULU	480139N 0555532E <b>AKB</b> <b>189.0° 143.1 NM</b> <b>(700 FT)</b>					
	010° 190°	32.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
△ LOGTO	483204N 0561202E <b>AKB</b> <b>189.0° 110.7 NM</b> <b>(700 FT)</b>					

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	010° 190°	72.6 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
△ TIKTO	494006N 0565014E <b>AKB</b> <b>190.0° 38.2 NM</b> <b>(700 FT)</b>					
	010° 190°	38.2 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 120.9 MHZ {C}
▲ AKTOBE DVOR/ DME (AKB)	501548N 0571055E					
	007° 187°	38.6 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 120.9 MHZ {C}
▲ SANIR (FIR BDRY)	505230N 0572942E <b>AKB</b> <b>007.0° 38.6 NM</b> <b>(700 FT)</b>					<b>For continuation, see AIP Russia</b>

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

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L994 (RNAV 5)						
▲ UST-KAMENOGORSK DVOR/DME (UKM)	500158N 0823031E					
	277° 095°	45.2 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ UST-KAMENOGORSK TOWER 130.1 MHZ {C}
▲ LIRNA	501159N 0812203E SEM 094.0° 44.2 NM (700 FT)					
	275° 094°	44.6 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ SEMEY TOWER 128.0 MHZ {C}
▲ SOMIP	502106N 0801402E SEM 281.0° 0.4 NM (700 FT)					
	278° 097°	43.2 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ SEMEY TOWER 128.0 MHZ {C}
△ ETORI	503208N 0790845E SEM 277.0° 43.6 NM (700 FT)					
	277° 096°	38.3 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}
▲ BAMAT (FIR BDRY)	504125N 0781025E SEM 276.0° 81.9 NM (700 FT)					
	276° 095°	30.9 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ DILGI	504833N 0772303E PVL 164.0° 84.8 NM (500 FT)					
	275° 094°	31.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ GOBSO	505523N 0763521E PVL 184.0° 79.6 NM (500 FT)					
	268° 085°	137.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}



Route designator		[Route Usage Notes]					
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks	
				↓	↑		
△ EDANO	510858N 0725804E <b>AST</b> <b>072.0° 58.7 NM</b> <b>(1200 FT)</b>						
	252° 071°	58.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}	
▲ ASTANA DVOR/ DME (AST)	510006N 0712600E						
	288° 106°	64.2 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}	
△ DIDAL	512908N 0695453E <b>AST</b> <b>286.0° 64.2 NM</b> <b>(1200 FT)</b>						
	287° 105°	64.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}	
▲ ATBAN	515824N 0682152E <b>KTU</b> <b>197.0° 94.6 NM</b> <b>(900 FT)</b>						
	284° 103°	32.5 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}	
▲ ATNON	521149N 0673350E <b>KTU</b> <b>215.0° 102.0 NM</b> <b>(900 FT)</b>						
	283° 102°	33.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}	
△ LATKO	522508N 0664427E <b>KTU</b> <b>229.0° 118.6 NM</b> <b>(900 FT)</b>						
	282° 100°	52.2 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}	
△ GITNA	524459N 0652518E <b>KST</b> <b>100.0° 72.4 NM</b> <b>(600 FT)</b>						
	281° 101°	8.4 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}	
△ DOKUT	524814N 0651230E <b>KST</b> <b>099.0° 63.9 NM</b> <b>(600 FT)</b>						
	280° 099°	64.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}	

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ KOSTANAY DVOR/DME (KST)	531113N 0633346E					
	268° 086°	38.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}
△ LODEZ	531715N 0623004E <b>KST</b> <b>268.0° 38.7 NM</b> <b>(600 FT)</b>					
	266° 085°	48.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}
▲ TITUR (FIR BDRY)	532406N 0610924E <b>KST</b> <b>268.0° 87.6 NM</b> <b>(600 FT)</b>					

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

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ BAKIS	440031N 0764333E <b>ATA</b> <b>332.6° 41.1 NM</b> <b>(2200 FT)</b>					
	332° 152°	15.0 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 133.1 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ UMIRO	441421N 0763537E <b>ATA</b> <b>332.7° 56.1 NM</b> <b>(2200 FT)</b>					
	332° 152°	6.6 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 133.1 MHZ ALMATY APPROACH 124.8 MHZ {C}
▲ ETEDA	442024N 0763206E <b>ATA</b> <b>332.6° 62.6 NM</b> <b>(2200 FT)</b>					
	332° 151°	58.5 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 133.1 MHZ {C}
△ DODOK	451420N 0760011E <b>TDK</b> <b>268.0° 103.3 NM</b> <b>(2000 FT)</b>					
	331° 150°	31.3 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 133.1 MHZ {C}
▲ RITAB	454308N 0754239E <b>BLH</b> <b>150.0° 76.1 NM</b> <b>(1400 FT)</b>					
	330° 150°	32.9 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ {C}
△ TULPI	461318N 0752358E <b>BLH</b> <b>150.0° 43.3 NM</b> <b>(1400 FT)</b>					
	330° 150°	43.3 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ BALKHASH TOWER 128.0 MHZ {C}
▲ BALKHASH DVOR/DME (BLH)	465259N 0745902E					
	315° 134°	52.9 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ BALKHASH TOWER 128.0 MHZ {C}
△ BAGIL	473425N 0741044E <b>BLH</b> <b>314.0° 52.9 NM</b> <b>(1400 FT)</b>					

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	314° 134°	40.3 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ {C}
▲ AGADI (FIR BDRY)	480559N 0733338E <b>BLH</b> <b>314.0° 93.2 NM</b> <b>(1400 FT)</b>					
	304° 118°	221.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}
△ ASTIK	502734N 0691434E <b>ARK</b> <b>075.0° 85.7 NM</b> <b>(1300 FT)</b>					
	307° 125°	75.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
▲ RUDAL	512154N 0675222E <b>ARK</b> <b>017.0° 70.7 NM</b> <b>(1300 FT)</b>					
	302° 118°	131.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ DOKUT	524814N 0651230E <b>KST</b> <b>099.0° 63.9 NM</b> <b>(600 FT)</b>					
	300° 117°	119.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}
▲ LANOR (FIR BDRY)	540536N 0624042E <b>KST</b> <b>318.0° 63.0 NM</b> <b>(600 FT)</b>					

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

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

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

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit	FL series		Controlling unit {Airspace class} Remarks
			Lower limit	↓	↑	
	305° 125°	28.9 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
△ UDATO	473801N 0573755E <b>AKB</b> <b>163.0° 158.9 NM</b> <b>(700 FT)</b>					
	305° 124°	62.7 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
△ EKDAD	482100N 0562959E <b>AKB</b> <b>183.0° 117.7 NM</b> <b>(700 FT)</b>					
	304° 123°	16.3 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
△ LOGTO	483204N 0561202E <b>AKB</b> <b>189.0° 110.7 NM</b> <b>(700 FT)</b>					
	303° 123°	13.8 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
△ UGLUK	484125N 0555642E <b>AKB</b> <b>196.0° 106.1 NM</b> <b>(700 FT)</b>					
	303° 123°	14.2 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
△ KURUL	485059N 0554051E <b>AKB</b> <b>203.0° 103.2 NM</b> <b>(700 FT)</b>					
	303° 122°	28.0 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
△ AGMAN	490942N 0550920E <b>AKB</b> <b>218.0° 103.0 NM</b> <b>(700 FT)</b>					
	302° 121°	66.4 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
▲ GERLI	495334N 0535254E <b>URL</b> <b>120.0° 117.1 NM</b> <b>(200 FT)</b>					
	301° 119°	73.8 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 131.4 MHZ {C}
△ EDAKO	504120N 0522510E <b>URL</b> <b>119.0° 43.2 NM</b> <b>(200 FT)</b>					

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	299° 119°	43.2 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 131.4 MHZ URALSK TOWER 119.7 MHZ {C}
▲ URALSK DVOR/ DME (URL)	510855N 0513238E					
	316° 135°	21.5 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 131.4 MHZ URALSK TOWER 119.7 MHZ {C}
△ OGAPI	512648N 0511336E					
	<b>URL</b> <b>315.0° 21.5 NM</b> <b>(200 FT)</b>					
	316° 135°	16.3 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 131.4 MHZ URALSK TOWER 119.7 MHZ {C}
▲ GUTAN (FIR BDRY)	514024N 0505912E					<b>For continuation, see AIP Russia</b>
	<b>URL</b> <b>316.0° 37.8 NM</b> <b>(200 FT)</b>					

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



Route designator		[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks	
				↓	↑		
△ BANUM	474633N 0804834E <b>AGZ</b> <b>296.3° 17.3 NM</b> <b>(2200 FT)</b>						
	296° 116°	17.3 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}	
▲ AYAGUZ VOR/ DME (AGZ)	475552N 0802659E						
	287° 105°	67.2 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}	
△ OSNER	482119N 0785409E <b>AGZ</b> <b>286.0° 67.2 NM</b> <b>(2200 FT)</b>						
	286° 104°	55.9 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}	
△ DODEM	484212N 0773614E <b>AGZ</b> <b>285.0° 123.0 NM</b> <b>(2200 FT)</b>						
	284° 103°	40.9 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}	
△ TAGAL	485638N 0763825E <b>KRG</b> <b>102.0° 135.8 NM</b> <b>(1800 FT)</b>						
	283° 102°	19.2 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}	
▲ GORBO (FIR BDRY)	490316N 0761100E <b>KRG</b> <b>099.0° 116.9 NM</b> <b>(1800 FT)</b>						
	283° 102°	12.2 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}	
△ ULKAP	490729N 0755332E <b>KRG</b> <b>101.0° 104.3 NM</b> <b>(1800 FT)</b>						
	282° 100°	60.5 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}	
△ ARLIH	492724N 0742621E <b>KRG</b> <b>100.0° 43.9 NM</b> <b>(1800 FT)</b>						
	280° 100°	43.9 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ KARAGANDA TOWER 122.0 MHZ {C}	

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓      ↑		Controlling unit {Airspace class} Remarks
▲ KARAGANDA DVOR/DME (KRG)	494114N 0732226E					
	273° 091°	46.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ KARAGANDA TOWER 122.0 MHZ {C}
△ SEHAL	494940N 0721215E <b>KRG</b> <b>271.0° 46.3 NM</b> <b>(1800 FT)</b>					
	271° 090°	39.2 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}
▲ GURPI	495618N 0711236E <b>AST</b> <b>178.0° 64.4 NM</b> <b>(1200 FT)</b>					
	271° 090°	36.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}
△ RELGO	500234N 0701730E <b>AST</b> <b>207.0° 72.3 NM</b> <b>(1200 FT)</b>					
	269° 088°	37.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}
△ INRIK	500744N 0692030E <b>ARK</b> <b>088.0° 90.1 NM</b> <b>(1300 FT)</b>					
	269° 088°	41.4 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}
▲ VAMRI	501330N 0681645E <b>ARK</b> <b>087.0° 48.7 NM</b> <b>(1300 FT)</b>					
	267° 086°	48.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
▲ ARKALYK DVOR/DME (ARK)	501904N 0670118E					
	263° 082°	45.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
▲ KUSOT	502128N 0655110E <b>ARK</b> <b>262.0° 45.0 NM</b> <b>(1300 FT)</b>					
	262° 081°	59.4 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}

Route designator		[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks	
				↓	↑		
△ ADEKU	502301N 0641824E <b>ARK</b> <b>261.0° 104.4 NM</b> <b>(1300 FT)</b>						
	261° 080°	50.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}	
△ EMBEK	502333N 0625947E <b>ARK</b> <b>263.0° 154.8 NM</b> <b>()</b>						
	260° 079°	22.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}	
▲ ABIRA (FIR BDRY)	502331N 0622455E <b>KST</b> <b>181.0° 173.3 NM</b> <b>(600 FT)</b>						
	259° 078°	50.6 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}	
△ BESOL	502254N 0610548E <b>AKB</b> <b>078.0° 150.7 NM</b> <b>(700 FT)</b>						
	258° 076°	104.0 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}	
△ LITBA	501849N 0582332E <b>AKB</b> <b>076.0° 46.7 NM</b> <b>(700 FT)</b>						
	256° 075°	46.7 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 120.9 MHZ {C}	
▲ AKTOBE DVOR/ DME (AKB)	501548N 0571055E						
	262° 081°	43.1 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 120.9 MHZ {C}	
△ LARPI	501721N 0560345E <b>AKB</b> <b>261.0° 43.1 NM</b> <b>(700 FT)</b>						
	261° 080°	57.7 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}	
▲ SIVKO	501827N 0543349E <b>AKB</b> <b>260.0° 100.8 NM</b> <b>(700 FT)</b>						
	284° 102°	82.6 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 131.4 MHZ {C}	

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ VEVIK	505201N 0523529E <b>URL</b> <b>102.0° 43.1 NM</b> <b>(200 FT)</b>					
	283° 102°	43.2 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 131.4 MHZ URALSK TOWER 119.7 MHZ {C}
▲ URALSK DVOR/ DME (URL)	510855N 0513238E					
	288° 107°	42.7 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 131.4 MHZ URALSK TOWER 119.7 MHZ {C}
▲ ARISA (FIR BDRY)	512924N 0503254E <b>URL</b> <b>288.0° 42.7 NM</b> <b>(200 FT)</b>					<b>For Continuation, see AIP Russia</b>

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

Route designator		[Route Usage Notes]					
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks	
				↓	↑		
M168 (RNAV 5)							
▲ ABGEN		405742N 0684248E  SMK 195.0° 90.7 NM (1400 FT)				Before, see AIP Uzbekistan	
	003° 183°	9.5 NM	FL 510 FL 60	Odd	Even	TASHKENT ACC {C}	
▲ ABEKA		410705N 0684442E  SMK 196.0° 81.5 NM (1400 FT)					
	003° 183°	16.1 NM	FL 510 FL 70	Odd	Even	TASHKENT ACC {C}	
▲ DODUR (FIR BDRY)		412300N 0684800E  SMK 200.0° 65.9 NM (1400 FT)					
	320° 139°	47.4 NM	FL 510 FL 70	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}	
▲ MIKNO		420200N 0681200E  SMK 243.0° 59.0 NM (1400 FT)					
	360° 180°	22.5 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ {C}	
▲ LUZMI		422426N 0681456E  SMK 266.0° 53.1 NM (1400 FT)					
	360° 179°	25.1 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ TURKISTAN TOWER 131.3 MHZ {C}	
△ RELRU		424925N 0681812E  TRK 195.0° 32.5 NM (1000 FT)					
	359° 179°	28.7 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ TURKISTAN TOWER 131.3 MHZ {C}	
▲ GENDI		431800N 0682200E  TRK 254.0° 9.4 NM (1000 FT)					

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	348° 168°	20.3 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ TURKISTAN TOWER 131.3 MHZ {C}
▲ GOBOR	433811N 0681918E <b>TRK</b> <b>323.0° 21.8 NM</b> <b>(1000 FT)</b>					
	348° 168°	30.5 NM	FL 510 9000 FT ALT	Even	Odd	SHYMKENT ACC 127.3 MHZ TURKISTAN TOWER 131.3 MHZ {C}
△ TIMKA	440832N 0681511E <b>TRK</b> <b>337.0° 51.0 NM</b> <b>(1000 FT)</b>					
	348° 168°	18.6 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ REMOL	442704N 0681238E <b>TRK</b> <b>340.0° 69.4 NM</b> <b>(1000 FT)</b>					
	348° 167°	91.4 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ BETPU (FIR BDRY)	455758N 0675945E <b>DZG</b> <b>166.0° 105.8 NM</b> <b>(1300 FT)</b>					
	347° 166°	34.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ ELSEB	463234N 0675439E <b>DZG</b> <b>166.0° 71.0 NM</b> <b>(1300 FT)</b>					
	348° 168°	27.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ BURIK	470012N 0675152E <b>DZG</b> <b>166.0° 43.3 NM</b> <b>(1300 FT)</b>					
	346° 166°	43.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
▲ ZHEZKAZGAN DVOR/DME (DZG)	474317N 0674542E					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	340° 160°	43.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
△ BEDOR	482529N 0673251E <b>DZG</b> <b>340.0° 43.1 NM</b> <b>(1300 FT)</b>					
	339° 158°	24.2 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ GORIM	484905N 0672456E <b>DZG</b> <b>339.0° 67.3 NM</b> <b>(1300 FT)</b>					
	342° 161°	70.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
▲ EDETO	495808N 0670732E <b>ARK</b> <b>159.0° 21.3 NM</b> <b>(1300 FT)</b>					
	339° 159°	21.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
▲ ARKALYK DVOR/ DME (ARK)	501904N 0670118E					
	329° 145°	157.9 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ GITNA	524459N 0652518E <b>KST</b> <b>100.0° 72.4 NM</b> <b>(600 FT)</b>					
	325° 143°	103.4 NM	FL 510 FL 210	Even	Odd	ASTANA ACC 133.1 MHZ {C}
▲ NELTI (FIR BDRY)	541942N 0641630E <b>KST</b> <b>008.0° 73.1 NM</b> <b>(600 FT)</b>					<b>For continuation, see AIP Russia</b>

Route designator		[Route Usage Notes]					
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks	
				↓	↑		
M199 (RNAV 5)							
▲ MULTA (FIR BDRY)		510442N 0565042E <b>AKB</b> <b>335.0° 50.6 NM</b> <b>(700 FT)</b>					<b>Before, see AIP Russia</b>
	154° 335°	50.6 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 120.9 MHZ {C}	
▲ AKTOBE DVOR/ DME (AKB)		501548N 0571055E					
	131° 312°	42.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 120.9 MHZ {C}	
△ ODILA		494259N 0575122E <b>AKB</b> <b>131.0° 41.9 NM</b> <b>(700 FT)</b>					
	132° 312°	27.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}	
△ KEKUN		492143N 0581653E <b>AKB</b> <b>131.0° 69.0 NM</b> <b>(700 FT)</b>					
	132° 313°	37.6 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}	
△ RILBA		485158N 0585148E <b>AKB</b> <b>132.0° 106.6 NM</b> <b>(700 FT)</b>					
	133° 314°	69.7 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}	
▲ RESDO		475618N 0595446E <b>ARL</b> <b>304.0° 96.4 NM</b> <b>(300 FT)</b>					
	134° 314°	14.6 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119 MHZ {C}	
△ ARSAN		474436N 0600738E <b>ARL</b> <b>303.0° 82.1 NM</b> <b>(300 FT)</b>					
	134° 317°	114.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119 MHZ {C}	
▲ AVLAK (FIR BDRY)		461214N 0614508E <b>ARL</b> <b>163.0° 37.7 NM</b> <b>(300 FT)</b>					
	137° 317°	27.3 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}	



Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
▲ INKUM	454952N 0620739E <b>ARL</b> <b>151.0° 63.3 NM</b> <b>(300 FT)</b>				

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

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	093° 274°	29.9 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}
▲ TUKNA	451058N 0623308E <b>ARL</b> <b>150.0° 106.1 NM</b> <b>(300 FT)</b>					
	094° 275°	41.0 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}
▲ UNITO	450238N 0632952E <b>KZO</b> <b>275.0° 90.6 NM</b> <b>(500 FT)</b>					
	095° 275°	48.7 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}
△ NATUS	445208N 0643650E <b>KZO</b> <b>277.0° 41.9 NM</b> <b>(500 FT)</b>					
	096° 276°	11.8 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}
△ GIGUR	444920N 0645300E <b>KZO</b> <b>277.0° 30.1 NM</b> <b>(500 FT)</b>					
	097° 278°	30.1 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}
▲ KYZYLORDA DVOR/DME (KZO)	444145N 0653349E					
	097° 278°	44.5 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}
△ RINET	443026N 0663402E <b>KZO</b> <b>098.0° 44.5 NM</b> <b>(500 FT)</b>					
	099° 280°	43.1 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}
△ BIMDO	441809N 0673135E <b>TRK</b> <b>315.0° 74.3 NM</b> <b>(1000 FT)</b>					
	100° 281°	32.8 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}
△ TIMKA	440832N 0681511E <b>TRK</b> <b>337.0° 51.0 NM</b> <b>(1000 FT)</b>					

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit	FL series		Controlling unit {Airspace class} Remarks
			Lower limit	↓	↑	
	101° 281°	22.8 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}
▲ LIMTO	440138N 0684518E <b>TRK</b> <b>004.0° 42.8 NM</b> <b>(1000 FT)</b>					
	101° 283°	96.5 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ {C}
▲ ARBOL	433055N 0705137E <b>TAR</b> <b>329.0° 42.9 NM</b> <b>(2200 FT)</b>					
	078° 260°	126.4 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ {C}
▲ TOMGO	434146N 0734454E <b>TAR</b> <b>060.0° 118.9 NM</b> <b>(2200 FT)</b>					
	086° 267°	19.6 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ {C}
▲ BERV (FIR BDRY)	434059N 0741156E <b>ATA</b> <b>274.2° 127.3 NM</b> <b>(2200 FT)</b>					
	087° 268°	58.1 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ {C}
△ TIPSA	433809N 0753149E <b>ATA</b> <b>278.4° 69.7 NM</b> <b>(2200 FT)</b>					
	088° 268°	34.8 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
▲ USUGA	433600N 0761934E <b>ATA</b> <b>287.3° 35.8 NM</b> <b>(2200 FT)</b>					
	085° 265°	21.0 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ UNADA	433551N 0764831E <b>ATA</b> <b>312.8° 18.0 NM</b> <b>(2200 FT)</b>					
	085° 266°	6.6 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓      ↑	
△ BEDUR	433546N 0765739E <b>ATA</b> <b>332.7° 14.3 NM</b> <b>(2200 FT)</b>				
	085° 266°	8.6 NM	FL 510 FL 120	Odd	Even
△ PEKIR	433539N 0770931E <b>ATA</b> <b>008.5° 13.5 NM</b> <b>(2200 FT)</b>				
	087° 268°	15.3 NM	FL 510 FL 120	Odd	Even
△ TIRBA	433456N 0773031E <b>ATA</b> <b>050.8° 22.3 NM</b> <b>(2200 FT)</b>				
	086° 266°	24.3 NM	FL 510 FL 120	Odd	Even
△ PIGAL	433428N 0780356E <b>ATA</b> <b>068.9° 44.5 NM</b> <b>(2200 FT)</b>				
	086° 267°	51.7 NM	FL 510 FL 120	Odd	Even
▲ BASPI	433257N 0791501E <b>JRK</b> <b>212.0° 51.0 NM</b> <b>(2600 FT)</b>				
	087° 268°	24.3 NM	FL 510 FL 120	Odd	Even
▲ BERTO	433159N 0794824E <b>JRK</b> <b>184.0° 42.2 NM</b> <b>(2600 FT)</b>				
	088° 269°	40.5 NM	FL 510 FL 140	Odd	Even
▲ RULAD (FIR BDRY)	433001N 0804359E <b>JRK</b> <b>138.0° 55.2 NM</b> <b>(2600 FT)</b>				For continuation, see AIP China

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
<b>M618</b> (RNAV 5)						
▲ UML0D	432218N 0750715E <b>ATA</b> <b>265.4° 85.9 NM</b> <b>(2200 FT)</b>					
	033° 213°	47.0 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ {C}
▲ AGUNA	435906N 0754739E <b>ATA</b> <b>298.4° 67.1 NM</b> <b>(2200 FT)</b>					
	035° 216°	185.0 NM	FL 510 FL 210	Odd	Even	ALMATY ACC 133.1 MHZ {C}
▲ LIPSI	461808N 0784001E <b>TDK</b> <b>002.0° 72.5 NM</b> <b>(2000 FT)</b>					
	038° 219°	70.3 NM	FL 510 FL 210	Odd	Even	ALMATY ACC 132.1 MHZ {C}
△ GOMAL	470809N 0795150E <b>AGZ</b> <b>200.0° 53.4 NM</b> <b>(2200 FT)</b>					
	039° 220°	54.3 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
△ BANUM	474633N 0804834E <b>AGZ</b> <b>296.3° 17.3 NM</b> <b>(2200 FT)</b>					
	039° 221°	132.6 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
▲ NEMEG	491804N 0831242E <b>UKM</b> <b>332.4° 51.4 NM</b> <b>(1000 FT)</b>					
	042° 223°	78.3 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
▲ GOMIR (FIR BDRY)	501042N 0844206E <b>UKM</b> <b>079.0° 85.2 NM</b> <b>(1000 FT)</b>					<b>For Continuation, see AIP Russia</b>

Route designator		[Route Usage Notes]						
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks		
				↓	↑			
M741 (RNAV 5)								
▲ ASLOK		410548N 0671954E <b>SMK</b> <b>224.0° 121.8 NM</b> <b>(1400 FT)</b>					Before, see AIP Uzbekistan	
	345° 165°	36.2 NM	FL 510 FL 210	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}		
▲ RITAL (FIR BDRY)		414130N 0671206E <b>SMK</b> <b>241.0° 108.2 NM</b> <b>(1400 FT)</b>						
	341° 160°	80.5 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}		
▲ PAVEL		425947N 0664642E <b>TRK</b> <b>249.0° 81.5 NM</b> <b>(1000 FT)</b>						
	343° 163°	16.2 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}		
▲ GEKSO		431544N 0664228E <b>TRK</b> <b>260.0° 82.1 NM</b> <b>(1000 FT)</b>						
	343° 162°	63.3 NM	FL 510 FL 150	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}		
△ GITIM		441752N 0662540E <b>KZO</b> <b>116.0° 44.1 NM</b> <b>(500 FT)</b>						
	344° 163°	105.2 NM	FL 510 FL 150	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}		
△ ANIGO		460143N 0660207E <b>KZO</b> <b>007.0° 82.4 NM</b> <b>(500 FT)</b>						
	343° 162°	43.3 NM	FL 510 FL 150	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}		
▲ LUGER (FIR BDRY)		464426N 0655200E <b>DZG</b> <b>223.0° 97.3 NM</b> <b>(1300 FT)</b>						
	339° 158°	84.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}		
△ INKOL		480633N 0652413E <b>DZG</b> <b>276.0° 97.8 NM</b> <b>(1300 FT)</b>						

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	338° 157°	19.5 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ EKLOP	482530N 0651734E <b>DZG</b> <b>285.0° 107.9 NM</b> <b>(1300 FT)</b>					
	337° 157°	31.9 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ REGPI	485632N 0650629E <b>ARK</b> <b>213.0° 111.5 NM</b> <b>(1300 FT)</b>					
	337° 157°	24.9 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ ARBIM	492045N 0645739E <b>ARK</b> <b>223.0° 99.1 NM</b> <b>(1300 FT)</b>					
	338° 157°	34.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ IPKOD	495415N 0644617E <b>ARK</b> <b>245.0° 90.4 NM</b> <b>(1300 FT)</b>					
	337° 157°	13.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ LAMGI	500657N 0644154E <b>ARK</b> <b>251.0° 90.3 NM</b> <b>(1300 FT)</b>					
	337° 156°	42.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ ERNEN	504754N 0642731E <b>ARK</b> <b>277.0° 102.2 NM</b> <b>(1300 FT)</b>					
	336° 156°	45.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ NARUR	513200N 0641130E <b>KST</b> <b>155.0° 102.0 NM</b> <b>(600 FT)</b>					
	336° 155°	43.4 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ BALOK	521416N 0635540E <b>KST</b> <b>155.0° 58.6 NM</b> <b>(600 FT)</b>					

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

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
M875 (RNAV 5)						
▲ TIGTA (FIR BDRY)	432728N 0620446E  KZO 235.0° 168.0 NM (500 FT)					
	328° 147°	46.2 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ FAZUL	440916N 0613731E  ARL 171.0° 160.3 NM (300 FT)					
	327° 146°	84.4 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ MILSO (FIR BDRY)	452519N 0604609E  ARL 194.0° 91.4 NM (300 FT)					
	327° 145°	152.0 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ {C}
▲ RUGUS	474250N 0591219E  ARL 289.0° 112.1 NM (300 FT)					
	327° 145°	131.6 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}



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

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
<b>M993</b> (RNAV 5)						
▲ GOMIR (FIR BDRY)	501042N 0844206E <b>UKM</b> <b>079.0° 85.2 NM</b> <b>(1000 FT)</b>					<b>Before, see AIP Russia</b>
	259° 078°	42.5 NM	FL 510 FL 130	Even	Odd	ALMATY ACC 132.1 MHZ {C}
△ DEVNA	500647N 0833619E <b>UKM</b> <b>078.0° 42.7 NM</b> <b>(1000 FT)</b>					
	258° 077°	42.7 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ UST-KAMENOGORSK TOWER 130.1 MHZ {C}
▲ UST- KAMENOGORS K DVOR/DME (UKM)	500158N 0823031E					
	253° 071°	51.9 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ UST-KAMENOGORSK TOWER 130.1 MHZ {C}
▲ NOKNA	495154N 0811139E <b>SEM</b> <b>122.0° 46.9 NM</b> <b>(700 FT)</b>					
	251° 070°	36.1 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ SEMEY TOWER 128.0 MHZ {C}

Route designator		[Route Usage Notes]						
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks		
				↓	↑			
△ ROKOD	494408N 0801719E <b>SEM</b> <b>170.0° 36.9 NM</b> <b>(700 FT)</b>							
	250° 070°	21.3 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ SEMEY TOWER 128.0 MHZ {C}		
△ UVTOK	493924N 0794524E <b>SEM</b> <b>197.0° 45.7 NM</b> <b>(700 FT)</b>							
	250° 069°	35.5 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}		
△ NONRI	493111N 0785223E <b>SEM</b> <b>219.0° 72.9 NM</b> <b>(700 FT)</b>							
	249° 068°	52.2 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}		
△ AKASA	491819N 0773455E <b>SEM</b> <b>231.0° 120.9 NM</b> <b>(700 FT)</b>							
	248° 067°	30.4 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}		
△ ESUMA	491025N 0765006E <b>KRG</b> <b>095.0° 139.0 NM</b> <b>(1800 FT)</b>							
	247° 066°	26.7 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}		
▲ GORBO (FIR BDRY)	490316N 0761100E <b>KRG</b> <b>099.0° 116.9 NM</b> <b>(1800 FT)</b>							
	248° 067°	14.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}		
△ LALAS	485941N 0755014E <b>KRG</b> <b>105.0° 105.2 NM</b> <b>(1800 FT)</b>							
	249° 068°	31.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}		
△ IRGIT	485220N 0750436E <b>KRG</b> <b>118.0° 82.9 NM</b> <b>(1800 FT)</b>							
	246° 065°	45.2 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}		

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ GONEL	483912N 0735912E <b>KRG</b> <b>150.0° 66.6 NM</b> <b>(1800 FT)</b>					
	246° 066°	37.5 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}
△ LUTEK	482853N 0730459E <b>KRG</b> <b>180.0° 73.3 NM</b> <b>(1800 FT)</b>					
	245° 063°	64.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}
▲ ALEGA	480900N 0713249E <b>KRG</b> <b>209.0° 117.2 NM</b> <b>(1800 FT)</b>					
	244° 063°	31.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
▲ KUROL	475900N 0704800E <b>DZG</b> <b>075.0° 123.8 NM</b> <b>(1300 FT)</b>					
	256° 074°	80.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ AMASO	474914N 0684857E <b>DZG</b> <b>074.0° 43.1 NM</b> <b>(1300 FT)</b>					
	254° 073°	43.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
▲ ZHEZKAZGAN DVOR/DME (DZG)	474317N 0674542E					
	286° 104°	43.2 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
△ DINBO	480029N 0664647E <b>DZG</b> <b>284.0° 43.2 NM</b> <b>(1300 FT)</b>					
	285° 103°	64.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ EKLOP	482530N 0651734E <b>DZG</b> <b>285.0° 107.9 NM</b> <b>(1300 FT)</b>					
	283° 101°	74.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ GOSPA	485256N 0633233E <b>ARL</b> <b>024.0° 145.9 NM</b> <b>(300 FT)</b>					
	281° 100°	39.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
▲ BEDRU (FIR BDRY)	490642N 0623638E <b>ARL</b> <b>008.0° 143.0 NM</b> <b>(300 FT)</b>					
	280° 096°	179.2 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
△ ADRAT	500334N 0581528E <b>AKB</b> <b>096.0° 43.3 NM</b> <b>(700 FT)</b>					
	276° 096°	43.3 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 120.9 MHZ {C}
▲ AKTOBE DVOR/ DME (AKB)	501548N 0571055E					

## ENR-3.2.3 "N" ROUTES

## 1. NAVIGATION SPECIFICATION

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

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
N37 (RNAV 5)						
▲ IPLED (FIR BDRY)	432348N 0493000E AKT 241.0° 73.9 NM (100 FT)					
	060° 241°	73.9 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 134.3 MHZ AKTAU TOWER 120.7 MHZ {C}
▲ AKTAU DVOR/ DME (AKT)	435220N 0510352E					
	060° 241°	53.9 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 134.3 MHZ AKTAU TOWER 120.7 MHZ {C}
▲ GIGRI	441248N 0521256E AKT 060.0° 53.9 NM (100 FT)					
	059° 239°	29.7 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
△ DOGEL	442430N 0525059E AKT 060.0° 83.6 NM (100 FT)					
	059° 240°	68.2 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
▲ BODSI	445034N 0541914E BNU 220.0° 45.3 NM (0 FT)					
	060° 240°	39.5 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
△ MASAV	450507N 0551053E BNU 162.0° 15.5 NM (0 FT)					
	053° 234°	108.6 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
▲ KOMRE	455641N 0572649E BNU 061.0° 104.4 NM (0 FT)					
	056° 237°	60.6 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119 MHZ {C}

Route designator		[Route Usage Notes]					
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks	
				↓	↑		
△ NINAG	462208N 0584556E ARL 249.0° 121.4 NM (300 FT)						
	057° 240°	222.5 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119 MHZ {C}	
▲ ULRIP (FIR BDRY)	474743N 0634635E ARL 049.0° 105.6 NM (300 FT)						
	064° 245°	68.3 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}	
△ INKOL	480633N 0652413E DZG 276.0° 97.8 NM (1300 FT)						
	065° 248°	120.5 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}	
△ AKITU	483624N 0681921E DZG 014.0° 57.7 NM (1300 FT)						
	064° 245°	72.0 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}	
▲ ALFIL	485654N 0700340E DZG 042.0° 117.9 NM (1300 FT)						
	065° 247°	91.3 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 124.1 MHZ {C}	
△ DOZIN	492040N 0721800E KRG 235.0° 46.8 NM (1800 FT)						
	055° 236°	46.8 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 124.1 MHZ KARAGANDA TOWER 122.0 MHZ {C}	
▲ KARAGANDA DVOR/DME (KRG)	494114N 0732226E						
	070° 251°	43.4 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 124.1 MHZ KARAGANDA TOWER 122.0 MHZ {C}	
△ SULIB	494914N 0742808E KRG 071.0° 43.4 NM (1800 FT)						
	089° 269°	25.6 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 124.1 MHZ {C}	

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ EKTAB	494555N 0750718E KRG 078.0° 68.2 NM (1800 FT)					
	078° 259°	41.3 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 124.1 MHZ {C}
▲ AGINU (FIR BDRY)	494800N 0761100E KRG 077.0° 109.5 NM (1800 FT)					
	068° 250°	54.6 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
△ ADETA	500015N 0773321E SEM 250.0° 105.7 NM (700 FT)					
	067° 248°	63.0 NM	FL 510 FL 220	Odd	Even	ALMATY ACC 132.1 MHZ {C}
△ LUREL	501613N 0790803E SEM 257.0° 42.9 NM (700 FT)					
	075° 257°	42.6 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ SEMEY TOWER 128.0 MHZ {C}
▲ SOMIP	502106N 0801402E SEM 281.0° 0.4 NM (700 FT)					
	060° 241°	68.1 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ SEMEY TOWER 128.0 MHZ {C}
▲ ADARO (FIR BDRY)	504706N 0815242E UKM 325.0° 51.2 NM (1000 FT)					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
<b>N55</b> (RNAV 5)						
▲ BALUN (FIR BDRY)	420100N 0512742E AKT 163.0° 112.7 NM (100 FT)					Before, see AIP Azerbaijan

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	033° 214°	123.3 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
△ MEDOL	433425N 0531659E AKT 094.0° 98.2 NM (100 FT)					
	034° 214°	25.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
△ ATNAL	435307N 0533948E BNU 207.0° 107.4 NM (0 FT)					
	034° 215°	62.7 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
△ TITIL	443944N 0543810E BNU 199.0° 45.6 NM (0 FT)					
	034° 214°	34.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119,8 MHZ {C}
△ MASAV	450507N 0551053E BNU 162.0° 15.5 NM (0 FT)					
	032° 212°	109.7 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8MHZ {C}
▲ OGANU	462857N 0565153E BNU 039.0° 100.2 NM (0 FT)					
	038° 219°	71.9 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119 MHZ {C}
▲ ARKER	471757N 0580839E ARL 271.0° 145.3 NM (300 FT)					
	039° 221°	228.2 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
▲ BEKOR (FIR BDRY)	494513N 0623050E ARK 247.0° 177.6 NM (1300 FT)					
	032° 212°	24.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
▲ GEMBO	500256N 0625600E ARK 252.0° 158.5 NM (1300 FT)					
	042° 222°	73.8 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ {C}



Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ ERNEN	504754N 0642731E ARK 277.0° 102.2 NM (1300 FT)					
	042° 222°	4.4 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ {C}
△ IPNIL	505034N 0643305E ARK 279.0° 99.5 NM (1300 FT)					
	042° 224°	139.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ {C}
▲ ATNON	521149N 0673350E KTU 215.0° 102.0 NM (900 FT)					
	043° 226°	210.7 NM	FL 510 FL 150	Odd	Even	ASTANA ACC 132.8 MHZ {C}
▲ DAKIN (FIR BDRY)	540930N 0722418E KTU 053.0° 110.5 NM (900 FT)					For continuation, see AIP Russia

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
N60 (RNAV 5)						
▲ GASBI (FIR BDRY)	422611N 0502811E AKT 190.0° 90.0 NM (100 FT)					Before, see AIP Azerbaijan
	010° 190°	90.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 134.3 MHZ AKTAU TOWER 120.7 MHZ {C}
▲ AKTAU DVOR/ DME (AKT)	435220N 0510352E					
	003° 182°	56.7 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 134.3 MHZ AKTAU TOWER 120.7 MHZ {C}
△ PIRIM	444808N 0511741E AKT 002.0° 56.7 NM (100 FT)					
	001° 180°	53.2 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 134.3 MHZ {C}

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ KOLIB	454047N 0512848E ATR 179.0° 88.9 NM (0 FT)					
	360° 180°	45.7 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
△ NIKNA	462557N 0513838E ATR 179.0° 43.2 NM (0 FT)					
	360° 180°	43.2 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ ATYRAU TOWER 118.1 MHZ {C}
▲ ATYRAU DVOR/ DME (ATR)	470838N 0514805E					
	038° 218°	43.2 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ ATYRAU TOWER 118.1 MHZ {C}
▲ UDEBA	473802N 0523443E ATR 038.0° 43.2 NM (0 FT)					
	038° 218°	74.7 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
△ EKPIN	482805N 0535721E ATR 038.0° 118.0 NM (0 FT)					
	038° 219°	36.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
▲ MOGTU	485209N 0543832E AKB 218.0° 129.8 NM (700 FT)					
	039° 219°	26.8 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
△ AGMAN	490942N 0550920E AKB 218.0° 103.0 NM (700 FT)					
	039° 220°	66.2 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
▲ GULDO	495223N 0562651E AKB 219.0° 36.8 NM (700 FT)					
	040° 221°	36.8 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 120.9 MHZ {C}
▲ AKTOBE DVOR/ DME (AKB)	501548N 0571055E					

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	041° 222°	49.5 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 120.9 MHZ {C}
▲ ALGAS	504613N 0581203E AKB 042.0° 49.5 NM (700 FT)					
	041° 222°	19.1 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
▲ NINBU (FIR BDRY)	505748N 0583554E AKB 042.0° 68.5 NM (700 FT)					For continuation, see AIP Russia

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
N60 (RNAV 5)						
▲ LENTA (FIR BDRY)	514854N 0602236E KST 221.0° 143.0 NM (600 FT)					Before, see AIP Russia
	042° 223°	78.5 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ {C}
△ BAMIK	523517N 0620524E KST 223.0° 64.5 NM (600 FT)					
	044° 225°	64.5 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}
▲ KOSTANAY DVOR/DME (KST)	531113N 0633346E					
	050° 230°	65.0 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}
△ AKOSO	534140N 0650940E KST 050.0° 65.0 NM (600 FT)					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	052° 233°	48.6 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ {C}
▲ DEPIR	540211N 0662405E PSK 232.0° 108.5 NM (500 FT)					
	052° 232°	47.8 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ {C}
△ KOKAV	542244N 0673738E PSK 233.0° 60.7 NM (500 FT)					
	053° 235°	60.7 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ PETROPAVLOVSK TOWER 123.7 MHZ {C}
▲ PETROPAVLOV SK DVOR/DME (PSK)	544703N 0691309E					
	072° 254°	62.0 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ PETROPAVLOVSK TOWER 123.7 MHZ {C}
▲ BARKI (FIR BDRY)	545153N 0710000E PSK 073.0° 62.0 NM (500 FT)					For continuation, see AIP Russia

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
N73 (RNAV 5)						
▲ BALUN (FIR BDRY)		420100N 0512742E AKT 163.0° 112.7 NM (100 FT)				Before, see AIP Russia
	016° 196°	36.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
△ ADEDA		423438N 0514628E AKT 151.0° 83.7 NM (100 FT)				

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit	FL series		Controlling unit {Airspace class} Remarks
			Lower limit	↓	↑	
	016° 196°	36.6 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
△ GIRUL	430826N 0520542E AKT 127.0° 62.9 NM (100 FT)					
	016° 196°	36.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
▲ NEPIL	434133N 0522455E AKT 093.0° 59.7 NM (100 FT)					
	016° 196°	46.9 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
△ DOGEL	442430N 0525059E AKT 060.0° 83.6 NM (100 FT)					
	016° 196°	28.1 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
△ ALOTO	445010N 0530653E BNU 241.0° 90.5 NM (0 FT)					
	018° 198°	37.6 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
▲ REPLA	452358N 0533011E BNU 264.0° 68.6 NM (0 FT)					
	018° 198°	8.8 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
△ GOLGI	453153N 0533543E BNU 271.0° 65.5 NM (0 FT)					
	018° 198°	91.1 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
△ RIKRI	465319N 0543423E BNU 338.0° 95.7 NM (0 FT)					
	018° 198°	37.8 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
△ LANIN	472659N 0545937E BNU 349.0° 126.8 NM (0 FT)					
	018° 198°	45.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
△ PETEM	480656N 0553022E AKB 196.0° 144.9 NM (700 FT)				
	018° 198°	13.4 NM	FL 510 FL 120	Odd   Even	AKTOBE ACC 130.9 MHZ {C}
▲ ALABA	481845N 0553938E AKB 196.0° 131.5 NM (700 FT)				
	017° 197°	25.4 NM	FL 510 FL 120	Odd   Even	AKTOBE ACC 129.6 MHZ {C}
△ UGLUK	484125N 0555642E AKB 196.0° 106.1 NM (700 FT)				
	017° 197°	67.4 NM	FL 510 FL 120	Odd   Even	AKTOBE ACC 129.6 MHZ {C}
△ LURUM	494127N 0564322E AKB 196.0° 38.7 NM (700 FT)				
	017° 197°	38.7 NM	FL 510 FL 120	Odd   Even	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 120.9 MHZ {C}
▲ AKTOBE DVOR/ DME (AKB)	501548N 0571055E				

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
<b>N102</b> (RNAV 5)					
▲ BABUR (FIR BDRY)	452312N 0493000E AKT 315.0° 112.9 NM (100 FT)				<b>Before, see AIP Russia</b>
	097° 279°	117.4 NM	FL 510 FL 120	Odd   Even	AKTOBE ACC 134.3 MHZ {C}
▲ ADPAK	444919N 0520844E AKT 031.0° 73.6 NM (100 FT)				
	100° 283°	175.7 NM	FL 510 FL 120	Odd   Even	AKTOBE ACC 119.8 MHZ {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
▲ KORAG (FIR BDRY)		435134N 0560000E BNU 149.0° 96.5 NM (0 FT)			For continuation, see AIP Uzbekistan

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
<b>N102</b> (RNAV 5)					
▲ GILAT (FIR BDRY)		415707N 0660000E TRK 227.0° 140.8 NM (1000 FT)			Before, see AIP Uzbekistan
	074° 256°	102.0 NM	FL 510 FL 120	Odd   Even	SHYMKENT ACC 132.7 MHZ {C}
△ TONLA		421334N 0681508E SMK 254.0° 53.7 NM (1400 FT)			
	074° 255°	53.7 NM	FL 510 FL 120	Odd   Even	SHYMKENT ACC 132.7 MHZ SHYMKENT TOWER 125.9 MHZ {C}
▲ SHYMKENT DVOR/DME (SMK)		422220N 0692631E			
	041° 222°	22.9 NM	FL 510 FL 120	Odd   Even	SHYMKENT ACC 132.7 MHZ SHYMKENT TOWER 125.9 MHZ {C}
△ DONUP		423759N 0694912E SMK 041.0° 22.9 NM (1400 FT)			
	035° 215°	16.5 NM	FL 510 FL 120	Odd   Even	SHYMKENT ACC 132.7 MHZ SHYMKENT TOWER 125.9 MHZ {C}
▲ BARAR		425030N 0700344E SMK 039.0° 39.3 NM (1400 FT)			
	035° 215°	53.5 NM	FL 510 FL 120	Odd   Even	SHYMKENT ACC 132.7 MHZ {C}
▲ ARBOL		433055N 0705137E TAR 329.0° 42.9 NM (2200 FT)			
	051° 232°	52.4 NM	FL 510 FL 120	Odd   Even	SHYMKENT ACC 132.7 MHZ {C}

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ RISAS	435854N 0715247E TAR 016.0° 71.6 NM (2200 FT)					
	052° 232°	36.6 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ {C}
△ RITMU	441806N 0723603E TAR 028.0° 103.3 NM (2200 FT)					
	052° 234°	42.5 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ {C}
▲ EKNIL (FIR BDRY)	444003N 0732651E TAR 036.0° 143.1 NM (2200 FT)					
	053° 233°	39.1 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 125.5 MHZ {C}
△ TENRO	445953N 0741408E BLH 188.0° 117.4 NM (1400 FT)					
	009° 189°	58.5 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 125.5 MHZ {C}
△ ABMIK	455616N 0743604E BLH 189.0° 58.9 NM (1400 FT)					
	009° 189°	58.9 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 125.5 MHZ BALKHASH TOWER 128.0 MHZ {C}
▲ BALKHASH DVOR/DME (BLH)	465259N 0745902E					
	036° 217°	46.2 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 125.5 MHZ BALKHASH TOWER 128.0 MHZ {C}
△ DIBUK	472631N 0754536E BLH 037.0° 46.2 NM (1400 FT)					
	037° 217°	51.2 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 125.5 MHZ {C}
▲ ENONA	480316N 0763820E BLH 037.0° 97.4 NM (1400 FT)					
	037° 218°	54.8 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}



Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ DODEM	484212N 0773614E AGZ 285.0° 123.0 NM (2200 FT)					
	038° 218°	26.0 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
△ GITUD	490032N 0780418E AGZ 299.0° 114.8 NM (2200 FT)					
	038° 219°	44.0 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
△ NONRI	493111N 0785223E SEM 219.0° 72.9 NM (700 FT)					
	039° 219°	29.5 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
△ ADLAN	495132N 0792510E SEM 220.0° 43.4 NM (700 FT)					
	039° 220°	43.2 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ SEMEY TOWER 128.0 MHZ {C}
▲ SOMIP	502106N 0801402E SEM 281.0° 0.4 NM (700 FT)					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
N126 (RNAV 5)						
▲ RULAD (FIR BDRY)	433001N 0804359E JRK 138.0° 55.2 NM (2600 FT)					
	311° 130°	50.0 NM	FL 510 FL 210	Even	Odd	ALMATY ACC 131.4 MHZ {C}
▲ LAGUK	440528N 0795517E JRK 185.0° 8.4 NM (2600 FT)					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	310° 129°	38.0 NM	FL 510 FL 210	Even	Odd	ALMATY ACC 131.4 MHZ {C}
▲ BARUR	443207N 0791739E JRK 298.0° 33.9 NM (2600 FT)					
	309° 129°	27.6 NM	FL 510 FL 210	Even	Odd	ALMATY ACC 133.1 MHZ {C}
△ ATPOR	445123N 0784955E TDK 126.0° 22.8 NM (2000 FT)					
	306° 126°	22.8 NM	FL 510 FL 210	Even	Odd	ALMATY ACC 133.1 MHZ {C}
▲ TALDYKORGAN DVOR/DME (TDK)	450622N 0782548E					
	308° 126°	109.0 NM	FL 510 FL 210	Even	Odd	ALMATY ACC 133.1 MHZ {C}
▲ ABREK	462025N 0763143E BLH 111.0° 71.7 NM (1400 FT)					
	306° 122°	160.9 NM	FL 510 FL 210	Even	Odd	ALMATY ACC 125.5 MHZ {C}
▲ AGADI (FIR BDRY)	480559N 0733338E BLH 314.0° 93.2 NM (1400 FT)					
	299° 112°	258.1 NM	FL 510 FL 210	Even	Odd	ASTANA ACC 124.1 MHZ {C}
▲ TUSEP	503136N 0680751E ARK 064.0° 44.4 NM (1300 FT)					
	305° 120°	233.2 NM	FL 510 FL 210	Even	Odd	ASTANA ACC 133.1 MHZ {C}
▲ KOSTANAY DVOR/DME (KST)	531113N 0633346E					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
<b>N143</b> (RNAV 5)						
▲ OGOLI	412858N 0663632E SMK 240.0° 137.6 NM (1400 FT)					Before, see AIP Uzbekistan
	059° 239°	29.5 NM	FL 510 FL 40	Odd	Even	TASHKENT ACC {C}
▲ RITAL (FIR BRDY)	414130N 0671206E SMK 241.0° 108.2 NM (1400 FT)					
	059° 240°	49.2 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ {C}
▲ MIKNO	420200N 0681200E SMK 243.0° 59.0 NM (1400 FT)					
	064° 245°	59.0 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ SHYMKENT TOWER 125.9 MHZ {C}
▲ SHYMKENT DVOR/DME (SMK)	422220N 0692631E					
	067° 247°	29.4 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ SHYMKENT TOWER 125.9 MHZ {C}
△ TURIK	423108N 0700422E SMK 067.0° 29.4 NM (1400 FT)					
	064° 244°	16.8 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ SHYMKENT TOWER 125.9 MHZ {C}
▲ KOLAM	423702N 0702540E TAR 242.0° 40.7 NM (2200 FT)					
	064° 244°	8.8 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ TARAZ APPROACH 122.1 MHZ {C}
△ ANESA	424006N 0703654E TAR 241.0° 31.9 NM (2200 FT)					
	062° 242°	31.9 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ TARAZ APPROACH 122.1 MHZ {C}
▲ TARAZ DVOR/ DME (TAR)	425214N 0711654E					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	061° 241°	29.3 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ TARAZ APPROACH 122.1 MHZ {C}
△ NASIP	430347N 071533E TAR 061.0° 29.3 NM (2200 FT)					
	059° 240°	89.7 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ {C}
▲ TOMGO	434146N 073445E TAR 060.0° 118.9 NM (2200 FT)					
	040° 220°	54.3 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ {C}
▲ DITSU (FIR BRDY)	441934N 074385E ATA 294.1° 120.2 NM (2200 FT)					
	040° 221°	44.4 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ {C}
△ ADIRO	445011N 075235E ATA 315.7° 114.0 NM (2200 FT)					
	040° 220°	7.0 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ {C}
△ DESER	445502N 075310E ATA 319.2° 114.7 NM (2200 FT)					
	041° 221°	17.5 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ {C}
△ LEKLU	450701N 075490E TDK 264.0° 111.0 NM (2000 FT)					
	041° 221°	10.8 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ {C}
△ DODOK	451420N 076001E TDK 268.0° 103.3 NM (2000 FT)					
	041° 222°	57.1 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ {C}
△ UDEKA	455252N 077000E TDK 302.0° 76.1 NM (2000 FT)					
	042° 222°	35.2 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ {C}

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ GENGA	461625N 0773739E TDK 328.0° 77.8 NM (2000 FT)					
	042° 223°	25.6 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ {C}
▲ ETRAN	463321N 0780521E TDK 345.0° 88.2 NM (2000 FT)					
	042° 223°	57.9 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
△ RUDIZ	471122N 0790856E AGZ 223.0° 69.1 NM (2200 FT)					
	043° 224°	69.1 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
▲ AYAGUZ VOR/ DME (AGZ)	475552N 0802659E					
	044° 224°	138.0 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
▲ ARHIM	492317N 0830743E UKM 322.3° 45.3 NM (1000 FT)					
	046° 227°	77.4 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
▲ GOMIR (FIR BRDY)	501042N 0844206E UKM 079.0° 85.2 NM (1000 FT)					For Continuation, see AIP Russia

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
N147 (RNAV 5)						
▲ BORIS (FIR BDRY)	425127N 0660533E KZO 161.0° 112.7 NM (500 FT)					Before, see AIP Uzbekistan
	068° 249°	31.4 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ PAVEL	425947N 0664642E TRK 249.0° 81.5 NM (1000 FT)					
	069° 249°	30.5 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ {C}
△ AGERA	430738N 0672650E TRK 250.0° 51.1 NM (1000 FT)					
	069° 249°	15.7 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ TURKISTAN TOWER 131.3 MHZ {C}
▲ KARIM	431136N 0674737E TRK 250.0° 35.4 NM (1000 FT)					
	069° 250°	25.9 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ TURKISTAN TOWER 131.3 MHZ {C}
▲ GENDI	431800N 0682200E TRK 254.0° 9.4 NM (1000 FT)					
	074° 254°	9.5 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ TURKISTAN TOWER 131.3 MHZ {C}
▲ TURKISTAN DVOR/DME (TRK)	431932N 0683446E					
	057° 237°	40.8 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ TURKISTAN TOWER 131.3 MHZ {C}
△ MUZEL	433756N 0692447E TRK 057.0° 40.8 NM (1000 FT)					
	060° 242°	73.9 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ {C}
△ KUGIR	440625N 0705906E TAR 344.0° 75.3 NM (2200 FT)					
	061° 242°	19.0 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ {C}
△ MIHOS	441332N 0712336E TAR 358.0° 81.4 NM (2200 FT)					
	062° 243°	83.9 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
▲ AKIMU (FIR BDRY)	444353N 0731255E TAR 032.0° 139.7 NM (2200 FT)				
	063° 244°	46.4 NM	FL 510 FL 120	Odd   Even	ALMATY ACC 125.5 MHZ {C}
△ TENRO	445953N 0741408E BLH 188.0° 117.4 NM (1400 FT)				
	059° 239°	44.0 NM	FL 510 FL 120	Odd   Even	ALMATY ACC 125.5 MHZ {C}
▲ MALOD	451812N 0751037E BLH 168.0° 95.2 NM (1400 FT)				
	053° 235°	118.2 NM	FL 510 FL 120	Odd   Even	ALMATY ACC 133.1 MHZ {C}
▲ GENGA	461625N 0773739E TDK 328.0° 77.8 NM (2000 FT)				

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
<b>N154</b> (RNAV 5)					
▲ KORAG (FIR BDRY)	435134N 0560000E BNU 149.0° 96.5 NM (0 FT)				<b>Before, see AIP Uzbekistan</b>
	264° 083°	89.8 NM	FL 510 FL 120	Even   Odd	AKTOBE ACC 119.8 MHZ {C}
△ RINIT	435305N 0535549E BNU 202.0° 101.2 NM (0 FT)				
	263° 083°	11.6 NM	FL 510 FL 120	Even   Odd	AKTOBE ACC 119.8 MHZ {C}
△ ATNAL	435307N 0533948E BNU 207.0° 107.4 NM (0 FT)				
	262° 082°	24.1 NM	FL 510 FL 120	Even   Odd	AKTOBE ACC 119.8 MHZ {C}

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ RELGE	435304N 0530630E AKT 081.0° 88.7 NM (100 FT)					
	262° 081°	33.2 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119.8 MHZ {C}
▲ ULSON	435244N 0522039E AKT 082.0° 55.5 NM (100 FT)					
	263° 082°	55.5 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 134.3 MHZ AKTAU TOWER 120.7 MHZ {C}
▲ AKTAU DVOR/ DME (AKT)	435220N 0510352E					
	263° 082°	67.9 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 134.3 MHZ AKTAU TOWER 120.7 MHZ {C}
▲ ITAKA (FIR BDRY)	435224N 0493000E AKT 262.0° 67.9 NM (100 FT)					For continuation, see AIP Russia

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
N161 (RNAV 5)						
▲ GASBI (FIR BDRY)		422611N 0502811E AKT 190.0° 90.0 NM (100 FT)				Before, see AIP Azerbaijan
	045° 226°	121.6 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
△ ARLIF		433927N 0524039E AKT 092.0° 71.3 NM (100 FT)				
	046° 226°	23.2 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
△ RELGE		435304N 0530630E AKT 081.0° 88.7 NM (100 FT)				
	046° 227°	80.7 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}



Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ TITIL		443944N 0543810E BNU 199.0° 45.6 NM (0 FT)				
	034° 214°	34.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
△ MASAV		450507N 0551053E BNU 162.0° 15.5 NM (0 FT)				
	061° 242°	112.1 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
▲ DIVNO		454418N 0574000E BNU 070.0° 109.9 NM (0 FT)				
	062° 244°	90.8 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119 MHZ {C}
▲ ABDUN		461337N 0594316E ARL 236.0° 86.4 NM (300 FT)				
	064° 246°	123.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119 MHZ {C}
△ RITET		464937N 0623417E ARL 081.0° 39.3 NM (300 FT)				
	066° 247°	83.7 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119 MHZ {C}
▲ ARKAM (FIR BDRY)		471135N 0643220E ARL 072.0° 121.9 NM (300 FT)				
	067° 247°	19.7 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ BAGED		471628N 0650016E DZG 249° 115.2 NM (1300 FT)				
	067° 248°	35.3 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ TIROK		472456N 0655037E DZG 247.0° 80.1 NM (1300 FT)				
	067° 248°	36.7 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ ABURA	473345N 0664312E DZG 249.4° 43.3 NM (1300 FT)					
	068° 249°	43.3 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
▲ ZHEZKAZGAN DVOR/DME (DZG)	474317N 0674542E					
	073° 254°	43.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
△ AMASO	474914N 0684857E DZG 074.0° 43.1 NM (1300 FT)					
	083° 264°	73.6 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ DERAD	474634N 0703805E DZG 079.0° 116.5 NM (1300 FT)					
	084° 266°	48.3 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
▲ UNABO (FIR BDRY)	474352N 0714935E KRG 198.0° 132.6 NM (1800 FT)					
	087° 272°	214.1 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 125.5 MHZ {C}
▲ MADEV	471857N 0770328E BLH 067.0° 88.9 NM (1400 FT)					
	088° 270°	85.8 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
△ RUDIZ	471122N 0790856E AGZ 223.0° 69.1 NM (2200 FT)					
	090° 271°	29.4 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
△ GOMAL	470809N 0795150E AGZ 200.0° 53.4 NM (2200 FT)					
	090° 272°	47.5 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
▲ BURID	470234N 0810051E AGZ 151.0° 58.1 NM (2200 FT)				
	091° 272°	37.8 NM	FL 510 FL 150	Odd   Even	ALMATY ACC 132.1 MHZ {C}
▲ GILAK	465738N 0815536E AGZ 129.0° 83.7 NM (2200 FT)				
	092° 273°	40.0 NM	FL 510 FL 150	Odd   Even	ALMATY ACC 132.1 MHZ {C}
▲ SARIN (FIR BDRY)	465156N 0825317E AGZ 118.0° 118.2 NM (2200 FT)				<b>For continuation, see AIP China</b>

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
<b>N167</b> (RNAV 5)					
▲ KURAB (FIR BDRY)	442311N 0610344E ARL 180.0° 148.2 NM (300 FT)				<b>Before, see AIP Uzbekistan</b>
	020° 200°	34.4 NM	FL 510 FL 120	Odd   Even	SHYMKENT ACC 127.3 MHZ {C}
△ LATNU	445345N 0612553E ARL 175.0° 116.1 NM (300 FT)				
	020° 200°	63.4 NM	FL 510 FL 120	Odd   Even	SHYMKENT ACC 127.3 MHZ {C}
▲ INKUM	454952N 0620739E ARL 151.0° 63.3 NM (300 FT)				
	009° 189°	38.4 NM	FL 510 FL 120	Odd   Even	SHYMKENT ACC 127.3 MHZ {C}
▲ BAKID (FIR BDRY)	462633N 0622354E ARL 117.0° 39.6 NM (300 FT)				
	009° 189°	24.2 NM	FL 510 FL 120	Odd   Even	AKTOBE ACC 119 MHZ {C}

Route designator		[Route Usage Notes]						
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks		
				↓	↑			
△ RITET	464937N 0623417E ARL 081.0° 39.3 NM (300 FT)							
	009° 189°	60.9 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119 MHZ {C}		
△ ABIGU	474742N 0630108E ARL 036.0° 81.6 NM (300 FT)							
	009° 189°	26.9 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119 MHZ {C}		
▲ SURAR (FIR BDRY)	481318N 0631317E ARL 030.0° 106.2 NM (300 FT)							
	009° 188°	41.7 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}		
△ GOSPA	485256N 0633233E ARL 024.0° 145.9 NM (300 FT)							
	008° 188°	76.9 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}		
▲ BATAD	500554N 0640927E ARK 252.0° 111.2 NM (1300 FT)							
	008° 188°	18.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ {C}		
△ ADEKU	502301N 0641824E ARK 261.0° 104.4 NM (1300 FT)							
	008° 188°	29.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ {C}		
△ IPNIL	505034N 0643305E ARK 279.0° 99.5 NM (1300 FT)							
	008° 188°	203.5 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ {C}		
▲ DEPIR	540211N 0662405E PSK 232.0° 108.5 NM (500 FT)							
	006° 186°	47.0 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ {C}		

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓      ↑	Controlling unit {Airspace class} Remarks
▲ BEBLU (FIR BDRY)		544630N 0665030E PSK 256.0° 82.6 NM (500 FT)			For continuation, see AIP Russia

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓      ↑	Controlling unit {Airspace class} Remarks
<b>N170 (RNAV 5)</b>					
△ IZIMA		432236N 0770503E ATA 332.2° 0.1 NM (2200 FT)			
	313° 132°	17.9 NM	FL 510 FL 120	Even    Odd	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ UNADA		433551N 0764831E ATA 312.8° 18 NM (2200 FT)			
	312° 132°	30.5 NM	FL 510 FL 120	Even    Odd	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
▲ ADABA		435820N 0762009E ATA 312.8° 48.5 NM (2200 FT)			
	336° 156°	15.9 NM	FL 510 FL 120	Even    Odd	ALMATY ACC 133.1 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ RISAD		441324N 0761312E ATA 318.7° 63.3 NM (2200 FT)			
	336° 156°	56.3 NM	FL 510 FL 120	Even    Odd	ALMATY ACC 133.1 MHZ {C}
△ LEKLU		450701N 0754903E TDK 264.0° 111.0 NM (2000 FT)			
	336° 156°	31.9 NM	FL 510 FL 120	Even    Odd	ALMATY ACC 133.1 MHZ {C}

Route designator		[Route Usage Notes]					
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks	
				↓	↑		
▲ MAROR		453720N 0753509E BLH 155.0° 79.7 NM (1400 FT)					
	336° 155°	36.1 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ {C}	
△ ABONA		461133N 0751857E BLH 155.0° 43.7 NM (1400 FT)					
	335° 155°	43.7 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ BALKHASH TOWER 128.0 MHZ {C}	
▲ BALKHASH DVOR/DME (BLH)		465259N 0745902E					
	333° 152°	42.1 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ BALKHASH TOWER 128.0 MHZ {C}	
△ GIREM		473219N 0743709E BLH 332.0° 42.1 NM (1400 FT)					
	332° 151°	38.2 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ {C}	
▲ LUKUS (FIR BDRY)		480759N 0741658E BLH 332.0° 80.3 NM (1400 FT)					
	332° 151°	33.4 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}	
△ GONEL		483912N 0735912E KRG 150.0° 66.6 NM (1800 FT)					
	331° 151°	21.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}	
△ NEMKU		485904N 0734736E KRG 150.0° 45.3 NM (1800 FT)					
	331° 150°	45.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ KARAGANDA TOWER 122.0 MHZ {C}	

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ KARAGANDA DVOR/DME (KRG)	494114N 0732226E					
	309° 127°	41.2 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ KARAGANDA TOWER 122.0 MHZ {C}
▲ BANOS	501116N 0723844E KRG 309.0° 40.9 NM (1800 FT)					
	308° 127°	67.4 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}
▲ ASTANA DVOR/ DME (AST)	510006N 0712600E					
	325° 144°	65.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}
△ KOLUR	515901N 0704103E AST 325.0° 65.3 NM (1200 FT)					
	324° 143°	46.9 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ LULEK	524106N 0700733E KTU 144.0° 44.0 NM (900 FT)					
	324° 144°	44.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ KOKSHETAU TOWER 127.9 MHZ {C}
▲ KOKSHETAU VOR/DME (KTU)	532103N 0693701E					
	300° 118°	42.9 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ KOKSHETAU TOWER 127.9 MHZ {C}
△ LASPA	534852N 0684219E KTU 298.0° 42.9 NM (900 FT)					
	300° 119°	51.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ KOKAV	542244N 0673738E PSK 233.0° 60.7 NM (500 FT)					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	299° 118°	36.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
▲ BEBLU (FIR BDRY)	544630N 0665030E PSK 256.0° 82.6 NM (500 FT)					For continuation, see AIP Russia

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
N193 (RNAV 5)						
▲ LANOL	411133N 0685506E SMK 192.0° 74.6 NM (1400 FT)					
	272° 091°	44.9 NM	FL 510 FL 40	Even	Odd	TASHKENT ACC {C}
▲ DIBAD	411700N 0675600E SMK 220.0° 94.0 NM (1400 FT)					
	276° 095°	61.0 NM	FL 510 FL 40	Even	Odd	TASHKENT ACC {C}
▲ OGOLI	412858N 0663632E SMK 240.0° 137.6 NM (1400 FT)					Before, see AIP Uzbekistan

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	
N193 (RNAV 5)					



Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓      ↑	
▲ KUNAS (FIR BDRY)		430923N 0560000E BNU 156.0° 136.4 NM (0 FT)			<b>Before, see AIP Uzbekistan</b>
	276° 094°	99.5 NM	FL 510 FL 120	Even	Odd
△ BAPER		433011N 0534642E AKT 094.0° 120.2 NM (100 FT)			
	274° 094°	22.0 NM	FL 510 FL 120	Even	Odd
△ MEDOL		433425N 0531659E AKT 094.0° 98.2 NM (100 FT)			
	273° 093°	26.9 NM	FL 510 FL 120	Even	Odd
△ ARLIF		433927N 0524039E AKT 092.0° 71.3 NM (100 FT)			
	273° 093°	11.6 NM	FL 510 FL 120	Even	Odd
▲ NEPIL		434133N 0522455E AKT 093.0° 59.7 NM (100 FT)			
	274° 093°	59.7 NM	FL 510 FL 120	Even	Odd
▲ AKTAU DVOR/ DME (AKT)		435220N 0510352E			
	317° 136°	66.2 NM	FL 510 FL 120	Even	Odd
△ ATNUR		444559N 0500948E AKT 316.0° 66.2 NM (100 FT)			
	315° 135°	46.7 NM	FL 510 FL 120	Even	Odd
▲ BABUR (FIR BDRY)		452312N 0493000E AKT 315.0° 112.9 NM (100 FT)			<b>For continuation, see AIP Russia</b>

Route designator		[Route Usage Notes]					
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks	
				↓	↑		
N985 (RNAV 5)							
▲ LAGMO (FIR BDRY)		514954N 0791500E PVL 098.0° 83.0 NM (500 FT)					Before, see AIP Russia
	278° 096°	40.4 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}	
△ DOSAK		520044N 0781212E PVL 097.0° 42.7 NM (500 FT)					
	278° 097°	42.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ PAVLODAR TWR 119.8 MHZ {C}	
▲ PAVLODAR DVOR/DME (PVL)		521235N 0770542E					
	277° 094°	76.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ PAVLODAR TOWER 119.8 MHZ {C}	
△ ADODA		523230N 0750554E PVL 277.0° 76.1 NM (500 FT)					
	272° 087°	163.5 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}	
△ ADLON		530129N 0704047E KTU 105.0° 43.1 NM (900 FT)					
	267° 084°	138.4 NM	FL 510 FL 150	Even	Odd	ASTANA ACC 132.8 MHZ {C}	
▲ BAVAG		531819N 0665235E KTU 256.0° 98.6 NM (900 FT)					
	262° 077°	205.7 NM	FL 510 FL 210	Even	Odd	ASTANA ACC 133.1 MHZ {C}	
▲ TITUR (FIR BDRY)		532406N 0610924E KST 268.0° 87.6 NM (600 FT)					For continuation, see AIP Russia

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
N987 (RNAV 5)						
▲ ASLOK	410548N 0671954E SMK 224.0° 121.8 NM (1400 FT)					Before, see AIP Uzbekistan
	357° 177°	34.4 NM	FL 510 FL 40	Even	Odd	TASHKENT ACC {C}
▲ UMKAS (FIR BDRY)	414012N 0672149E SMK 239.0° 102.0 NM (1400 FT)					
	357° 176°	54.1 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
△ ROSIM	423415N 0672453E TRK 222.0° 68.4 NM (1000 FT)					
	356° 176°	33.4 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
△ AGERA	430738N 0672650E TRK 250.0° 51.1 NM (1000 FT)					
	356° 176°	18.0 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
▲ POBEK	432534N 0672754E TRK 270.0° 49.1 NM (1000 FT)					
	357° 177°	20.0 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ GIMRI	434530N 0672931E TRK 292.0° 54.1 NM (1000 FT)					
	356° 176°	32.7 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ BIMDO	441809N 0673135E TRK 315.0° 74.3 NM (1000 FT)					
	356° 176°	13.1 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ LUKUR	443112N 0673226E TRK 321.0° 84.6 NM (1000 FT)					
	356° 175°	94.8 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ NONDI (FIR BDRY)	460552N 0673842E DZG 174.0° 97.6 NM M (1300 FT)					
	355° 175°	32.6 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ TUTUL	463825N 0674057E DZG 174.0° 65.0 NM (1300 FT)					
	355° 175°	21.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ LEMDU	470002N 0674228E DZG 174.0° 43.3 NM (1300 FT)					
	355° 175°	43.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
▲ ZHEZKAZGAN DVOR/DME (DZG)	474317N 0674542E					
	340° 160°	43.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
△ BEDOR	482529N 0673251E DZG 340.0° 43.1 NM (1300 FT)					
	339° 158°	24.2 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ GORIM	484905N 0672456E DZG 339.0° 67.3 NM (1300 FT)					
	342° 161°	70.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ EDETO	495808N 0670732E ARK 159.0° 21.3 NM (1300 FT)					
	339° 159°	21.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
▲ ARKALYK DVOR/ DME (ARK)	501904N 0670118E					
	017° 197°	70.7 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ {C}
▲ RUDAL	512154N 0675222E ARK 017.0° 70.7 NM (1300 FT)					
	016° 196°	40.9 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ {C}
▲ ATBAN	515824N 0682152E KTU 197.0° 94.6 NM (900 FT)					
	018° 198°	49.8 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ {C}
△ RIMIR	524153N 0690123E KTU 197.0° 44.7 NM (900 FT)					
	017° 198°	44.7 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ KOKSHETAU TOWER 127.9 MHZ {C}
▲ KOKSHETAU VOR/DME (KTU)	532103N 0693701E					
	338° 157°	40.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ KOKSHETAU TOWER 127.9 MHZ {C}
▲ TETKI	540020N 0692425E KTU 337.0° 40.1 NM (900 FT)					
	340° 160°	47.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ PETROPAVLOVSK TOWER 123.7 MHZ {C}
▲ PETROPAVLOV SK DVOR/DME (PSK)	544703N 0691309E					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	304° 123°	34.5 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ PETROPAVLOVSK TOWER 123.7 MHZ {C}
▲ LETIK (FIR BDRY)	551200N 0683200E PSK 303.0° 34.4 NM (500 FT)					

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation			Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
N990 (RNAV 5)						
▲ ODIVA (FIR BDRY)		423530N 0640848E KZO 198.0° 140.5 NM (500 FT)				
	019° 199°	75.0 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}
▲ ADAZA		434304N 0645326E KZO 199.0° 65.5 NM (500 FT)				
	019° 199°	23.4 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}
△ BUKEN		440406N 0650744E KZO 200.0° 42.0 NM (500 FT)				
	019° 200°	42.0 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}
▲ KYZYLORDA DVOR/DME (KZO)		444145N 0653349E				
	020° 200°	44.3 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ AMREK	452109N 0660226E KZO 020.0° 44.3 NM (500 FT)					
	018° 198°	70.9 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}
▲ GORVA (FIR BDRY)	462455N 0664655E DZG 198.0° 88.1 NM (1300 FT)					
	018° 198°	31.4 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ ATRUS	465302N 0670715E DZG 199.0° 56.7 NM (1300 FT)					
	021° 201°	13.3 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ DITSO	470443N 0671637E DZG 198.0° 43.4 NM (1300 FT)					
	019° 199°	43.4 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
▲ ZHEZKAZGAN DVOR/DME (DZG)	474317N 0674542E					
	015° 194°	43.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
△ RINUR	482255N 0681040E DZG 014.0° 43.1 NM (1300 FT)					
	014° 194°	14.7 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ AKITU	483624N 0681921E DZG 014.0° 57.7 NM (1300 FT)					
	014° 194°	60.3 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}

Route designator		[Route Usage Notes]					
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks	
				↓	↑		
▲ KUGUN		493139N 0685550E ARK 113.0° 87.9 NM (1300 FT)					
	014° 194°	39.5 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 124.1 MHZ {C}	
△ INRIK		500744N 0692030E ARK 088.0° 90.1 NM (1300 FT)					
	014° 194°	20.4 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 124.1 MHZ {C}	
▲ MIMKA		502620N 0693328E AST 234.0° 79.1 NM (1200 FT)					
	014° 195°	102.1 NM	FL 510 FL 250	Odd	Even	ASTANA ACC 132.8 MHZ {C}	
△ KOLUR		515901N 0704103E AST 325.0° 65.3 NM (1200 FT)					
	014° 195°	144.8 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ {C}	
▲ DAKIN (FIR BDRY)		540930N 0722418E KTU 053.0° 110.5 NM (900 FT)					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
N993 (RNAV 5)						
▲ TALDYKORGAN DVOR/DME (TDK)	450622N 0782548E					
	046° 226°	35.1 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ TALDYKORGAN TOWER 127.3 MHZ {C}



Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ KEZUT	452811N 0790448E TDK 046.0° 35.1 NM (2000 FT)					
	046° 227°	39.4 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ {C}
▲ RIKPI	455225N 0794910E TDK 047.0° 74.6 NM (2000 FT)					
	060° 240°	21.8 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ {C}
▲ NESUN	460123N 0801738E TDK 050.0° 95.9 NM (2000 FT)					
	060° 241°	24.6 NM	FL 510 FL 150	Odd	Even	ALMATY ACC 133.1 MHZ {C}
▲ GALSU	461126N 0804952E AGZ 166.0° 105.6 NM (2200 FT)					
	003° 183°	8.3 NM	FL 510 FL 150	Odd	Even	ALMATY ACC 132.1 MHZ {C}
▲ ADRIM	461940N 0805137E AGZ 163.8° 97.7 NM (2200 FT)					
	003° 183°	16.2 NM	FL 510 FL 150	Odd	Even	ALMATY ACC 132.1 MHZ {C}
▲ AGAKA	463544N 0805503E AGZ 161.0° 82.4 NM (2200 FT)					
	003° 183°	27.1 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
▲ BURID	470234N 0810051E AGZ 151.0° 58.1 NM (2200 FT)					
	331° 151°	58.1 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}
▲ AYAGUZ VOR/ DME (AGZ)	475552N 0802659E					
	299° 116°	114.9 NM	FL 510 FL 250	Even	Odd	ALMATY ACC 132.1 MHZ {C}
△ GITUD	490032N 0780418E AGZ 299.0° 114.8 NM (2200 FT)					

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	296° 114°	87.9 NM	FL 510 FL 250	Even	Odd	ALMATY ACC 132.1 MHZ {C}
▲ AGINU (FIR BDRY)	494800N 0761100E KRG 077.0° 109.5 NM (1800 FT)					
	285° 102°	90.7 NM	FL 510 FL 250	Even	Odd	ASTANA ACC 124.1 MHZ {C}
▲ GEDNO	502211N 0740032E KRG 023.0° 48.0 NM (1800 FT)					
	292° 104°	284.7 NM	FL 510 FL 250	Even	Odd	ASTANA ACC 132.8 MHZ {C}
▲ MONEG	523627N 0671849E KTU 229.0° 94.7 NM (900 FT)					
	289° 103°	189.0 NM	FL 510 FL 250	Even	Odd	ASTANA ACC 133.1 MHZ {C}
▲ LANOR (FIR BDRY)	540536N 0624042E KST 318.0° 63.0 NM (600 FT)					For continuation, see AIP Russia

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
N996 (RNAV 5)						
▲ PIKAN (FIR BDRY)		425300N 0493000E AKT 221.0° 90.6 NM (100 FT)				Before, see AIP Russia
	042° 222°	90.6 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 134.3 MHZ AKTAU TOWER 120.7 MHZ {C}
▲ AKTAU DVOR/ DME (AKT)		435220N 0510352E				
	025° 205°	67.3 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 134.3 MHZ AKTAU TOWER 120.7 MHZ {C}
△ AGILA		444901N 0515422E AKT 025.0° 67.3 NM (100 FT)				

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit	FL series		Controlling unit {Airspace class} Remarks
			Lower limit	↓	↑	
	024° 204°	50.8 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 134.3 MHZ {C}
▲ GARDU	453219N 0523200E ATR 154.0° 101.0 NM (0 FT)					
	024° 204°	37.7 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
△ OTMAS	460419N 0530034E ATR 134.0° 81.5 NM (0 FT)					
	024° 204°	63.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
△ LEPSI	465750N 0534950E ATR 089.0° 83.9 NM (0 FT)					
	024° 204°	29.5 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
△ EPOLI	472234N 0541316E ATR 074.0° 99.9 NM (0 FT)					
	024° 204°	39.9 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
△ KODUM	475556N 0544537E ATR 061.0° 129.2 NM (0 FT)					
	060° 241°	32.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
△ PETEM	480656N 0553022E AKB 196.0° 144.9 NM (700 FT)					
	061° 241°	11.8 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
▲ ETELA	481055N 0554657E AKB 192.0° 136.6 NM (700 FT)					
	061° 242°	30.5 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
△ EKDAD	482100N 0562959E AKB 183.0° 117.7 NM (700 FT)					
	062° 243°	99.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ RILBA	485158N 0585148E AKB 132.0° 106.6 NM (700 FT)					
	063° 244°	78.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
△ MANAD	491421N 0604601E ARL 338.0° 148.9 NM (300 FT)					
	064° 245°	72.2 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
▲ LANUK (FIR BDRY)	493317N 0623239E ARL 004.0° 168.0 NM (300 FT)					
	072° 253°	12.0 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ DILIR	493452N 0625056E ARK 243.0° 167.6 NM (1300 FT)					
	073° 253°	25.0 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ TIBDA	493800N 0632900E ARK 242.0° 143.1 NM (1300 FT)					
	062° 242°	52.7 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ IPKOD	495415N 0644617E ARK 245.0° 90.4 NM (1300 FT)					
	062° 243°	50.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
▲ BULOG	500854N 0660036E ARK 245.0° 40.3 NM (1300 FT)					
	065° 246°	40.3 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ {C}
▲ ARKALYK DVOR/DME (ARK)	501904N 0670118E					
	063° 244°	44.4 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ {C}
▲ TUSEP	503136N 0680751E ARK 064.0° 44.4 NM (1300 FT)					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit	FL series		Controlling unit {Airspace class} Remarks
			Lower limit	↓	↑	
	066° 248°	74.0 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ {C}
△ OSROL	504818N 0700112E AST 248.0° 55.0 NM (1200 FT)					
	065° 245°	29.4 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}
△ APTUS	505558N 0704601E AST 251.0° 25.6 NM (1200 FT)					
	071° 251°	25.6 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}
▲ ASTANA DVOR/ DME (AST)	510006N 0712600E					
	065° 246°	58.9 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}
△ BOLSU	511507N 0725620E AST 066.0° 58.9 NM (1200 FT)					
	066° 248°	88.0 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ {C}
▲ ABELI	513524N 0751312E PVL 232.0° 79.0 NM (500 FT)					
	052° 234°	79.0 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ PAVLODAR TOWER 119.8 MHZ {C}
▲ PAVLODAR DVOR/DME (PVL)	521235N 0770542E					

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Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
▲ AMIGU	491645N 0692517E <b>ARK</b> <b>114.0° 112.2 NM</b> <b>(1300 FT)</b>				

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
<b>P179</b> (RNAV 5)					
▲ LAGMO (FIR BDRY)	514954N 0791500E <b>PVL</b> <b>098.0° 83.0 NM</b> <b>(500 FT)</b>				<b>Before, see AIP Russia</b>
	278° 096°	40.4 NM	FL 510 FL 120	Even   Odd	ASTANA ACC 132.8 MHZ {C}
△ DOSAK	520044N 0781212E <b>PVL</b> <b>097.0° 42.7 NM</b> <b>(500 FT)</b>				
	278° 097°	42.7 NM	FL 510 FL 120	Even   Odd	ASTANA ACC 132.8 MHZ PAVLODAR TOWER 119.8 MHZ {C}
▲ PAVLODAR DVOR/DME (PVL)	521235N 0770542E				
	288° 106°	75.8 NM	FL 510 FL 120	Even   Odd	ASTANA ACC 132.8 MHZ PAVLODAR TOWER 119.8 MHZ {C}
△ ADASA	524618N 0751436E <b>PVL</b> <b>287.0° 75.8 NM</b> <b>(500 FT)</b>				
	287° 105°	41.6 NM	FL 510 FL 120	Even   Odd	ASTANA ACC 132.8 MHZ {C}
△ OLKUM	530441N 0741300E <b>PVL</b> <b>288.0° 117.3 NM</b> <b>(500 FT)</b>				
	285° 104°	55.1 NM	FL 510 FL 120	Even   Odd	ASTANA ACC 132.8 MHZ {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ LEPRA	532811N 0725005E <b>KTU</b> <b>074.0° 115.7 NM</b> <b>(900 FT)</b>					
	284° 103°	23.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
▲ POBUR	533800N 0721400E <b>KTU</b> <b>069.0° 95.3 NM</b> <b>(900 FT)</b>					
	292° 111°	30.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ PETOR	535420N 0713136E <b>KTU</b> <b>053.0° 75.9 NM</b> <b>(900 FT)</b>					
	292° 111°	32.6 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ BEDMU	541215N 0704523E <b>PSK</b> <b>111.0° 64.1 NM</b> <b>(500 FT)</b>					
	292° 110°	64.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ PETROPAVLOVSK TOWER 123.7 MHZ {C}
▲ PETROPAVLOV SK DVOR/DME (PSK)	544703N 0691309E					
	277° 096°	37.4 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ PETROPAVLOVSK TOWER 123.7 MHZ {C}
▲ IKANA (FIR BDRY)	545924N 0681200E <b>PSK</b> <b>276.0° 37.4 NM</b> <b>(500 FT)</b>					<b>For continuation, see AIP Russia</b>

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
<b>P180</b> <b>(RNAV 5)</b>						



Route designator		[Route Usage Notes]					
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks	
				↓	↑		
▲ ABEVO	405000N 0683442E <b>SMK</b> <b>197.0° 100.1 NM</b> <b>(1400 FT)</b>					<b>Before, see AIP Uzbekistan</b>	
	277° 097°	23.1 NM	FL 510 FL 70	Even	Odd	TASHKENT ACC {C}	
▲ OGRIP	405454N 0680500E <b>SMK</b> <b>209.0° 106.6 NM</b> <b>(1400 FT)</b>						

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
P180 (RNAV 5)						
▲ BUGEБ	410824N 0670836E <b>SMK</b> <b>228.0° 126.9 NM</b> <b>(1400 FT)</b>					
	283° 102°	22.4 NM	FL 510 FL 70	Even	Odd	TASHKENT ACC {C}
▲ MOMUL	411524N 0664024E <b>SMK</b> <b>235.0° 141.1 NM</b> <b>(1400 FT)</b>					<b>For continuation, see AIP Uzbekistan</b>

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
P184 (RNAV 5)						

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
▲ MIMRI	433808N 0634822E <b>KZO</b> <b>222.0° 99.0 NM</b> <b>(500 FT)</b>				
	043° 223°	57.3 NM	FL 510 FL 120	Odd   Even	SHYMKENT ACC 127.3 MHZ {C}
△ DILNA	441450N 0644911E <b>KZO</b> <b>222.0° 41.8 NM</b> <b>(500 FT)</b>				
	043° 223°	41.8 NM	FL 510 FL 120	Odd   Even	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}
▲ KYZYLORDA DVOR/DME (KZO)	444145N 0653349E				

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
<b>P574</b> (RNAV 5)					
▲ RUTIL (FIR BDRY)	421053N 0510433E <b>AKT</b> <b>172.0° 101.4 NM</b> <b>(100 FT)</b>				<b>Before, see AIP Azerbaijan</b>
	354° 174°	39.7 NM	FL 510 FL 120	Even   Odd	AKTOBE ACC 119.8 MHZ {C}
▲ AKUKU	425036N 0510509E <b>AKT</b> <b>171.0° 61.7 NM</b> <b>(100 FT)</b>				
	352° 172°	61.7 NM	FL 510 FL 120	Even   Odd	AKTOBE ACC 134.3 MHZ AKTAU TOWER 120.7 MHZ {C}
▲ AKTAU DVOR/ DME (AKT)	435220N 0510352E				
	050° 230°	55.9 NM	FL 510 FL 120	Odd   Even	AKTOBE ACC 134.3 MHZ AKTAU TOWER 120.7 MHZ {C}

Route designator		[Route Usage Notes]							
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks		
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit		FL series		Controlling unit {Airspace class} Remarks		
					↓	↑			
▲ RIBMO	442238N 0520908E <b>AKT</b> <b>050.0° 55.9 NM</b> <b>(100 FT)</b>								
	048° 229°	49.6 NM	FL 510 FL 120		Odd	Even	AKTOBE ACC 119.8 MHZ {C}		
△ ALOTO	445010N 0530653E <b>BNU</b> <b>241.0° 90.5 NM</b> <b>(0 FT)</b>								
	049° 229°	41.5 NM	FL 510 FL 120		Odd	Even	AKTOBE ACC 119.8 MHZ {C}		
△ UTORI	451248N 0535555E <b>BNU</b> <b>253.0° 51.0 NM</b> <b>(0 FT)</b>								
	049° 230°	36.3 NM	FL 510 FL 120		Odd	Even	AKTOBE ACC 119.8 MHZ {C}		
△ AGNIM	453221N 0543918E <b>BNU</b> <b>293.0° 23.1 NM</b> <b>(0 FT)</b>								
	050° 231°	108.4 NM	FL 510 FL 120		Odd	Even	AKTOBE ACC 119.8 MHZ {C}		
▲ OGANU	462857N 0565153E <b>BNU</b> <b>039.0° 100.2 NM</b> <b>(0 FT)</b>								
	050° 232°	153.6 NM	FL 510 FL 120		Odd	Even	AKTOBE ACC 119 MHZ {C}		
△ ARSAN	474436N 0600738E <b>ARL</b> <b>303.0° 82.1 NM</b> <b>(300 FT)</b>								
	053° 234°	115.5 NM	FL 510 FL 120		Odd	Even	AKTOBE ACC 119 MHZ {C}		
▲ GEDSA (FIR BDRY)	483738N 0624054E <b>ARL</b> <b>013.0° 116.4 NM</b> <b>(300 FT)</b>								
	056° 237°	37.5 NM	FL 510 FL 120		Odd	Even	ASTANA ACC 132.5 MHZ {C}		
△ GOSPA	485256N 0633233E <b>ARL</b> <b>024.0° 145.9 NM</b> <b>(300 FT)</b>								
	053° 234°	62.5 NM	FL 510 FL 120		Odd	Even	ASTANA ACC 132.5 MHZ {C}		

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
△ ARBIM	492045N 0645739E <b>ARK</b> <b>223.0° 99.1 NM</b> <b>(1300 FT)</b>				
	056° 237°	58.6 NM	FL 510 FL 120	Odd   Even	ASTANA ACC 132.5 MHZ {C}
△ SUKUR	494431N 0661957E <b>ARK</b> <b>207.0° 43.7 NM</b> <b>(1300 FT)</b>				
	056° 237°	33.7 NM	FL 510 FL 120	Odd   Even	ASTANA ACC 132.5 MHZ {C}
▲ EDETO	495808N 0670732E <b>ARK</b> <b>159.0° 21.3 NM</b> <b>(1300 FT)</b>				
	061° 242°	47.2 NM	FL 510 FL 120	Odd   Even	ASTANA ACC 133.1 MHZ {C}
▲ VAMRI	501330N 0681645E <b>ARK</b> <b>087.0° 48.7 NM</b> <b>(1300 FT)</b>				
	059° 240°	39.6 NM	FL 510 FL 120	Odd   Even	ASTANA ACC 124.1 MHZ {C}
△ ASTIK	502734N 0691434E <b>ARK</b> <b>075.0° 85.7 NM</b> <b>(1300 FT)</b>				
	060° 240°	39.5 NM	FL 510 FL 120	Odd   Even	ASTANA ACC 132.8 MHZ {C}
△ VETUB	504107N 0701250E <b>AST</b> <b>238.0° 50.1 NM</b> <b>(1200 FT)</b>				
	057° 238°	50.1 NM	FL 510 FL 120	Odd   Even	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}
▲ ASTANA DVOR/ DME (AST)	510006N 0712600E				

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
<b>P984</b> (RNAV 5)					

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ MAMIR (FIR BDRY)	425438N 0763642E <b>ATA</b> <b>211.8° 34.8 NM</b> <b>(2200 FT)</b>					
	032° 212°	22.0 NM	FL 510 FL 200	Odd	Even	ALMATY ACC 131.4 MHZ {C}
△ LAKEL	431216N 0765439E <b>ATA</b> <b>211.7° 12.8 NM</b> <b>(2200 FT)</b>					
	031° 211°	12.8 NM	FL 510 FL 190	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ IZIMA	432236N 0770503E <b>ATA</b> <b>332.2° 0.1 NM</b> <b>(2200 FT)</b>					
	009° 189°	13.5 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ PEKIR	433539N 0770931E <b>ATA</b> <b>008.5° 13.5 NM</b> <b>(2200 FT)</b>					
	008° 188°	5.9 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ NIGET	434124N 0771126E <b>ATA</b> <b>008.5° 19.5 NM</b> <b>(2200 FT)</b>					
	008° 188°	22.9 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
▲ APSEN	440338N 0771854E <b>ATA</b> <b>008.4° 42.3 NM</b> <b>(2200 FT)</b>					
	008° 188°	22.4 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ GOGDO	442524N 0772618E <b>TDK</b> <b>220.0° 59.0 NM</b> <b>(2000 FT)</b>					
	008° 188°	37.9 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ {C}
△ FINON	450211N 0773900E <b>TDK</b> <b>258.0° 33.4 NM</b> <b>(2000 FT)</b>					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	008° 188°	26.5 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ TALDYKORGAN TOWER 127.3 MHZ {C}
▲ KONAT	452754N 0774805E <b>TDK</b> <b>304.0° 34.2 NM</b> <b>(2000 FT)</b>					
	346° 165°	49.1 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 133.1 MHZ {C}
▲ GENGA	461625N 0773739E <b>TDK</b> <b>328.0° 77.8 NM</b> <b>(2000 FT)</b>					
	353° 173°	29.0 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 133.1 MHZ {C}
▲ RISUL	464525N 0773723E <b>TDK</b> <b>335.0° 104.7 NM</b> <b>(2000 FT)</b>					
	353° 173°	40.1 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}
△ OBAPI	472530N 0773700E <b>BLH</b> <b>065.0° 112.7 NM</b> <b>(1400 FT)</b>					
	353° 172°	76.8 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}
△ DODEM	484212N 0773614E <b>AGZ</b> <b>285.0° 123.0 NM</b> <b>(2200 FT)</b>					
	351° 171°	36.2 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}
△ AKASA	491819N 0773455E <b>SEM</b> <b>231.0° 120.9 NM</b> <b>(700 FT)</b>					
	351° 171°	42.0 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}
△ ADETA	500015N 0773321E <b>SEM</b> <b>250.0° 105.7 NM</b> <b>(700 FT)</b>					
	344° 164°	23.1 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}
▲ BALOL (FIR BDRY)	502308N 0772831E <b>SEM</b> <b>263.0° 106.4 NM</b> <b>(700 FT)</b>					

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit	FL series		Controlling unit {Airspace class} Remarks
			Lower limit	↓	↑	
	344° 164°	25.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ DILGI	504833N 0772303E <b>PVL</b> <b>164.0° 84.8 NM</b> <b>(500 FT)</b>					
	344° 164°	22.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ GALKI	511035N 0771814E <b>PVL</b> <b>164.0° 62.6 NM</b> <b>(500 FT)</b>					
	344° 163°	12.6 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ KEKAM	512300N 0771529E <b>PVL</b> <b>164.0° 50.0 NM</b> <b>(500 FT)</b>					
	343° 163°	20.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ PAVLODAR TOWER 119.8 MHZ {C}
△ ABRAS	514331N 0771053E <b>PVL</b> <b>165.0° 29.3 NM</b> <b>(500 FT)</b>					
	345° 165°	29.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ PAVLODAR TOWER 119.8 MHZ {C}
▲ PAVLODAR DVOR/DME (PVL)	521235N 0770542E					
	313° 131°	70.4 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ PAVLODAR TOWER 119.8 MHZ {C}
△ BAGNU	530720N 0755304E <b>PVL</b> <b>311.0° 70.4 NM</b> <b>(500 FT)</b>					
	311° 130°	53.9 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
▲ SOMOL (FIR BDRY)	534918N 0745629E <b>PVL</b> <b>311.0° 124.4 NM</b> <b>(500 FT)</b>					<b>For continuation, see AIP Russia and CIS</b>

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Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
▲ USUGA	433600N 0761934E ATA <b>287.3° 35.8 NM</b> <b>(2200 FT)</b>				
	289° 108°	31.5 NM	FL 510 FL 120	Even   Odd	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ BEKRO	434850N 0753952E ATA <b>288.4° 67.3 NM</b> <b>(2200 FT)</b>				
	288° 107°	45.2 NM	FL 510 FL 120	Even   Odd	ALMATY ACC 131.4 MHZ {C}
▲ BOBRO (FIR BDRY)	440648N 0744228E ATA <b>288.9° 112.5 NM</b> <b>(2200 FT)</b>				
	287° 107°	33.9 NM	FL 510 FL 120	Even   Odd	SHYMKENT ACC 132.7 MHZ {C}
▲ ALAKO	441958N 0735903E ATA <b>289.1° 146.4 NM</b> <b>(2200 FT)</b>				
	287° 103°	150.3 NM	FL 510 FL 120	Even   Odd	SHYMKENT ACC 132.7 MHZ {C}
▲ PABRI (FIR BDRY)	451455N 0704239E TAR <b>344.0° 144.8 NM</b> <b>(2200 FT)</b>				

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
<b>T586</b> (RNAV 5)					
▲ ALABA	481845N 0553938E <b>AKB</b> <b>196.0° 131.5 NM</b> <b>(700 FT)</b>				
	049° 229°	25.4 NM	FL 510 FL 120	Odd   Even	AKTOBE ACC 129.6 MHZ {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ LOGTO	483204N 0561202E <b>AKB</b> <b>189.0° 110.7 NM</b> <b>(700 FT)</b>					
	048° 229°	96.1 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
△ KEKUN	492143N 0581653E <b>AKB</b> <b>131.0° 69.0 NM</b> <b>(700 FT)</b>					
	050° 230°	41.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
△ ENETO	494223N 0591154E <b>AKB</b> <b>103.0° 84.9 NM</b> <b>(700 FT)</b>					
	050° 231°	38.5 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
△ KESOT	500111N 0600343E <b>AKB</b> <b>088.0° 112.1 NM</b> <b>(700 FT)</b>					
	051° 231°	45.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
△ BESOL	502254N 0610548E <b>AKB</b> <b>078.0° 150.7 NM</b> <b>(700 FT)</b>					
	051° 232°	37.8 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
▲ RAVNI (FIR BDRY)	504030N 0615807E <b>KST</b> <b>188.0° 162.1 NM</b> <b>(600 FT)</b>					
	047° 228°	52.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ {C}
△ GUMGA	510752N 0630806E <b>KST</b> <b>175.0° 124.7 NM</b> <b>(600 FT)</b>					
	047° 228°	46.5 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ {C}
△ NARUR	513200N 0641130E <b>KST</b> <b>155.0° 102.0 NM</b> <b>(600 FT)</b>					
	049° 230°	25.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
▲ LAGMO (FIR BDRY)	514954N 0791500E PVL <b>098.0° 83.0 NM</b> (500 FT)				<b>For continuation, see AIP Russia</b>

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
<b>T916</b> (RNAV 5)					
▲ BALUN (FIR BDRY)	420100N 0512742E <b>AKT</b> <b>163.0° 112.7 NM</b> (100 FT)				
	050°	111.6 NM	FL 510 FL 250	Odd	AKTOBE ACC 119.8 MHZ {C}
△ ARNUS	430052N 0533509E <b>AKT</b> <b>107.0° 121.6 NM</b> (100 FT)				
	077°	106.5 NM	FL 510 FL 250	Odd	AKTOBE ACC 119.8 MHZ {C}
▲ KUNAS (FIR BDRY)	430923N 0560000E <b>BNU</b> <b>156.0° 136.4 NM</b> (0 FT)				

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
<b>T916</b> (RNAV 5)					
▲ AKALI (FIR BDRY)	440829N 0611937E <b>ARL</b> <b>175.0° 161.5 NM</b> (300 FT)				
	078°	12.9 NM	FL 510 FL 250	Odd	SHYMKENT ACC 127.3 MHZ {C}

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ FAZUL	440916N 0613731E <b>ARL</b> <b>171.0° 160.3 NM</b> <b>(300 FT)</b>					
	079°	29.4 NM	FL 510 FL 250	Odd		SHYMKENT ACC 127.3 MHZ {C}
△ TOZLI	441054N 0621817E <b>KZO</b> <b>251.0° 143.4 NM</b> <b>(500 FT)</b>					
	080°	37.4 NM	FL 510 FL 250	Odd		SHYMKENT ACC 127.3 MHZ {C}
△ ZURGO	441233N 0631012E <b>KZO</b> <b>248.0° 106.9 NM</b> <b>(500 FT)</b>					
	081°	43.2 NM	FL 510 FL 250	Odd		SHYMKENT ACC 127.3 MHZ {C}
△ ERTUZ	441307N 0641019E <b>KZO</b> <b>238.0° 66.3 NM</b> <b>(500 FT)</b>					
	079°	28.0 NM	FL 510 FL 120	Odd		SHYMKENT ACC 127.3 MHZ {C}
△ DILNA	441450N 0644911E <b>KZO</b> <b>222.0° 41.8 NM</b> <b>(500 FT)</b>					
	080°	69.4 NM	FL 510 FL 150	Odd		SHYMKENT ACC 127.3 MHZ {C}
△ GITIM	441752N 0662540E <b>KZO</b> <b>116.0° 44.1 NM</b> <b>(500 FT)</b>					
	082°	47.3 NM	FL 510 FL 120	Odd		SHYMKENT ACC 127.3 MHZ {C}
△ BIMDO	441809N 0673135E <b>TRK</b> <b>315.0° 74.3 NM</b> <b>(1000 FT)</b>					
	078°	59.9 NM	FL 510 FL 120	Odd		SHYMKENT ACC 127.3 MHZ {C}
▲ TUROK	442214N 0685447E <b>TRK</b> <b>007.0° 64.3 NM</b> <b>(1000 FT)</b>					
	087°	60.8 NM	FL 510 FL 120	Odd		SHYMKENT ACC 132.7 MHZ {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓      ↑	Controlling unit {Airspace class} Remarks
△ INLIG	441743N 0701919E <b>TAR</b> <b>328.0° 94.9 NM</b> <b>(2200 FT)</b>				
	088°	46.4 NM	FL 510 FL 120	Odd	SHYMKENT ACC 132.7 MHZ {C}
△ MIHOS	441332N 0712336E <b>TAR</b> <b>358.0° 81.4 NM</b> <b>(2200 FT)</b>				
	089°	68.4 NM	FL 510 FL 120	Odd	SHYMKENT ACC 132.7 MHZ {C}
△ INDAG	440635N 0725812E <b>TAR</b> <b>038.0° 104.8 NM</b> <b>(2200 FT)</b>				
	090°	67.0 NM	FL 510 FL 120	Odd	SHYMKENT ACC 132.7 MHZ {C}
▲ LONSI (FIR BDRY)	435826N 0743022E <b>ATA</b> <b>284.0° 117.9 NM</b> <b>(2200 FT)</b>				
	091°	65.5 NM	FL 510 FL 250	Odd	ALMATY ACC 131.4 MHZ {C}
△ REGMU	435005N 0760012E <b>ATA</b> <b>295.6° 54.6 NM</b> <b>(2200 FT)</b>				
	094°	52.3 NM	FL 510 FL 250	Odd	ALMATY ACC 131.4 MHZ {C}
△ NIGET	434124N 0771126E <b>ATA</b> <b>008.5° 19.5 NM</b> <b>(2200 FT)</b>				
	095°	38.8 NM	FL 510 FL 250	Odd	ALMATY ACC 131.4 MHZ {C}
△ PIGAL	433428N 0780356E <b>ATA</b> <b>068.9° 44.5 NM</b> <b>(2200 FT)</b>				

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Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ EROMI	461234N 0762117E BLH 119.0° 69.7 NM (1400 FT)					
	299° 119°	20.9 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ {C}
△ LASDO	462443N 0755651E BLH 119.0° 48.9 NM (1400 FT)					
	299° 118°	48.9 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ BALKHASH TOWER 128.0 MHZ {C}
▲ BALKHASH DVOR/DME (BLH)	465259N 0745902E					
	355° 174°	37.4 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ BALKHASH TOWER 128.0 MHZ {C}
△ DONUR	473022N 0750038E BLH 355.0° 37.4 NM (1400 FT)					
	355° 174°	55.1 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ {C}
▲ TOKNA (FIR BDRY)	482525N 0750316E BLH 355.0° 92.5 NM (1400 FT)					
	354° 174°	27.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}
△ IRGIT	485220N 0750436E KRG 118.0° 82.9 NM (1800 FT)					
	354° 173°	53.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}
△ EKTAB	494555N 0750718E KRG 078.0° 68.2 NM (1800 FT)					
	354° 173°	37.9 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}
△ BODNU	502346N 0750918E KRG 050.0° 81.0 NM (1800 FT)					
	353° 173°	6.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ APTOK	503035N 0750940E KRG 046.0° 84.9 NM (1800 FT)					
	353° 173°	64.9 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
▲ ABELI	513524N 0751312E PVL 232.0° 79.0 NM (500 FT)					
	290° 106°	137.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ AMOLA	523853N 0715604E KTU 106.0° 94.0 NM (900 FT)					
	286° 105°	51.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ ADLON	530129N 0704047E KTU 105.0° 43.1 NM (900 FT)					
	286° 105°	43.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ KOKSHETAU TOWER 127.9 MHZ {C}
▲ KOKSHETAU VOR/DME (KTU)	532103N 0693701E					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
<b>Z164</b> (RNAV 5)						
▲ ZHEZKAZGAN DVOR/DME (DZG)	474317N 0674542E					
	297° 116°	43.2 NM	<div>FL 510</div> <div>FL 120</div>	Even	Odd	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
△ BETIK	480807N 0665309E DZG 296.0° 43.2 NM (1300 FT)					
	296° 114°	85.9 NM	<div>FL 510</div> <div>FL 120</div>	Even	Odd	ASTANA ACC 132.5 MHZ {C}



Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓      ↑	Controlling unit {Airspace class} Remarks
△ REGPI	485632N 0650629E ARK 213.0° 111.5 NM (1300 FT)				
	294° 112°	76.1 NM	FL 510 FL 120	Even    Odd	ASTANA ACC 132.5 MHZ {C}
△ TIBDA	493800N 0632900E ARK 242.0° 143.1 NM (1300 FT)				

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓      ↑	Controlling unit {Airspace class} Remarks
<b>Z208</b> (RNAV 5)					
▲ URDZHAR L (UGN)	470534N 0813933E				
	295° 114°	24.6 NM	FL 300 FL 120	Even    Odd	ALMATY ACC 132.1 MHZ URDZHAR VYSHKA 123.0 MHZ {C}
△ NINKO	471748N 0810819E AGZ 137.3° 47.2 NM (2200 FT)				
	013° 193°	17.4 NM	FL 300 FL 120	Odd      Even	ALMATY ACC 132.1 MHZ {C}
▲ TOLKI	473415N 0811640E AGZ 117.0° 39.9 NM (2200 FT)				
	057° 240°	100.3 NM	FL 300 FL 120	Odd      Even	ALMATY ACC 132.1 MHZ {C}
△ BONZU	481815N 0833043E UKM 152.5° 111.1 NM (1000 FT)				
	116° 298°	48.9 NM	FL 300 FL 120	Odd      Even	ALMATY ACC 132.1 MHZ {C}
▲ LATRI	475217N 0843229E UKM 141.2° 152.7 NM (1000 FT)				
	144° 324°	27.1 NM	FL 300 FL 120	Odd      Even	ALMATY ACC 132.1 MHZ ZAISAN VYSHKA 118.7 MHZ {C}
▲ ZAISAN L (ZSN)	472906N 0845308E				

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
Z210 (RNAV 5)						
△ KODUM	475556N 0544537E ATR 061.0° 129.2 NM (0 FT)					
	024° 204°	46.8 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
▲ BILGA	483452N 0552426E AKB 203.0° 122.6 NM (700 FT)					
	024° 204°	19.5 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
△ KURUL	485059N 0554051E AKB 203.0° 103.2 NM (700 FT)					
	024° 204°	63.1 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
△ BOLGO	494300N 0563525E AKB 204.0° 40.0 NM (700 FT)					
	024° 205°	40.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 120.9 MHZ {C}
▲ AKTOBE DVOR/ DME (AKB)	501548N 0571055E					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
Z243 (RNAV 5)						
▲ BALKHASH DVOR/DME (BLH)	465259N 0745902E					
	066° 246°	44.2 NM	<div>FL 510 FL 120</div>	Odd	Even	ALMATY ACC 125.5 MHZ BALKHASH TOWER 128.0 MHZ {C}
△ ESADO	470607N 0760037E BLH 066.0° 44.2 NM (1400 FT)					
	066° 247°	44.7 NM	<div>FL 510 FL 120</div>	Odd	Even	ALMATY ACC 125.5 MHZ {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ MADEV	471857N 0770328E BLH 067.0° 88.9 NM (1400 FT)					
	067° 248°	23.7 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
△ OBAPI	472530N 0773700E BLH 065.0° 112.7 NM (1400 FT)					
	068° 249°	33.4 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
△ IB DAS	473412N 0782432E AGZ 248.0° 85.4 NM (2200 FT)					
	068° 250°	85.4 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
▲ AYAGUZ VOR/ DME (AGZ)	475552N 0802659E					
	137° 318°	47.2 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
△ NINKO	471748N 0810819E AGZ 137.3° 47.2 NM (2200 FT)					
	114° 295°	24.6 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ URDZHAR VYSHKA 123.0 MHZ {C}
▲ URDZHAR L (UGN)	470534N 0813933E					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
Z315 (RNAV 5)						
△ IZIMA	432236N 0770503E ATA 332.2° 0.1 NM (2200 FT)					
	051° 231°	22.3 NM	<div>FL 510</div> <div>FL 120</div>	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ TIRBA	433456N 0773031E ATA 050.8° 22.3 NM (2200 FT)					
	051° 231°	23.4 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ BAGNA	434754N 0775719E ATA 050.8° 45.7 NM (2200 FT)					
	086° 266°	7.9 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ ALUGI	434745N 0780816E ATA 055.7° 52.4 NM (2200 FT)					
	086° 267°	48.7 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ {C}
▲ GASBU	434640N 0791528E JRK 223.0° 40.5 NM (2600 FT)					
	116° 297°	28.1 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ {C}
▲ BERTO	433159N 0794824E JRK 184.0° 42.2 NM (2600 FT)					

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation			Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
Z370 (RNAV 5)						
△ RISAS		435854N 0715247E TAR 016.0° 71.6 NM (2200 FT)				
	095° 277°	82.9 NM	FL 510 FL 150	Odd	Even	SHYMKENT ACC 132.7 MHZ {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	321° 141°	45.1 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ {C}
△ ABMIK	455616N 0743604E BLH 189.0° 58.9 NM (1400 FT)					
	321° 139°	102.1 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ {C}
▲ TOGDI	472143N 0731457E BLH 284.0° 76.7 NM (1400 FT)					
	308° 126°	56.8 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ {C}
▲ AZORI (FIR BDRY)	480139N 0721512E KRG 196.0° 109.1 NM (1800 FT)					
	306° 121°	220.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}
▲ TUSEP	503136N 0680751E ARK 064.0° 44.4 NM (1300 FT)					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
<b>Z584</b> (RNAV 5)						
▲ ADABA	435820N 0762009E ATA 312.8° 48.5 NM (2200 FT)					
	029° 209°	19.5 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ UMIRO	441421N 0763537E ATA 332.7° 56.1 NM (2200 FT)					

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	029° 209°	8.6 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ BIOTA	442124N 0764224E ATA 339.0° 61.2 NM (2200 FT)					
	029° 210°	81.3 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ {C}
▲ KONAT	452754N 0774805E TDK 304.0° 34.2 NM (2000 FT)					
	030° 210°	62.0 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ {C}
▲ LIPSI	461808N 0784001E TDK 002.0° 72.5 NM (2000 FT)					
	030° 211°	122.0 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
▲ AYAGUZ VOR/ DME (AGZ)	475552N 0802659E					
	351° 170°	102.4 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}
△ LUNOV	493800N 0801801E SEM 170.0° 43.1 NM (700 FT)					
	349° 169°	6.2 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ SEMEY TOWER 128.0 MHZ {C}
△ ROKOD	494408N 0801719E SEM 170.0° 36.9 NM (700 FT)					
	350° 169°	37.1 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ SEMEY TOWER 128.0 MHZ {C}
▲ SOMIP	502106N 0801402E SEM 281.0° 0.4 NM (700 FT)					
	307° 126°	49.4 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ SEMEY TOWER 128.0 MHZ {C}
▲ OBUNA (FIR BDRY)	505513N 0791803E SEM 307.0° 49.7 NM (700 FT)					
	306° 125°	30.6 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ MIKSA	511608N 0784241E SEM 306.0° 80.3 NM (700 FT)					
	305° 124°	21.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ ABDAM	513051N 0781707E PVL 125.0° 60.9 NM (500 FT)					
	304° 124°	22.2 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ PIVAL	514549N 0775050E PVL 125.0° 38.7 NM (500 FT)					
	305° 125°	38.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ PAVLODAR TOWER 119.8 MHZ {C}
▲ PAVLODAR DVOR/DME (PVL)	521235N 0770542E					
	277° 094°	76.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ PAVLODAR TOWER 119.8 MHZ {C}
△ ADODA	523230N 0750554E PVL 277.0° 76.1 NM (500 FT)					
	275° 094°	41.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ INRUM	524302N 0740047E PVL 277.0° 117.2 NM (500 FT)					
	274° 093°	48.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ UNKAB	525439N 0724332E KTU 090.0° 115.3 NM (900 FT)					
	273° 092°	25.5 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ ULSET	530027N 0720230E KTU 093.0° 89.9 NM (900 FT)					
	273° 091°	47.2 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ BALMI	531107N 0704613E KTU 092.0° 42.7 NM (900 FT)					
	273° 092°	42.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ KOKSHETAU TOWER 127.9 MHZ {C}
▲ KOKSHETAU VOR/DME (KTU)	532103N 0693701E					
	257° 076°	44.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ KOKSHETAU TOWER 127.9 MHZ {C}
△ ROGUN	531944N 0682341E KTU 257.0° 44.0 NM (900 FT)					
	257° 076°	54.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
▲ BAVAG	531819N 0665235E KTU 256.0° 98.6 NM (900 FT)					
	257° 075°	55.2 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ BIMSO	531631N 0652038E KST 073.0° 64.4 NM (600 FT)					
	254° 073°	64.4 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}
▲ KOSTANAY DVOR/DME (KST)	531113N 0633346E					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
Z586 (RNAV 5)						
▲ AMIGU	491645N 0692517E ARK 114.0° 112.2 NM (1300 FT)					



Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	051° 232°	80.2 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 124.1 MHZ {C}
▲ GURPI	495618N 0711236E AST 178.0° 64.4 NM (1200 FT)					
	358° 178°	22.5 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ ASTANA APPROACH 124.6 MHZ {C}
▲ SUTUR	501837N 0711714E AST 178.0° 41.9 NM (1200 FT)					
	358° 178°	41.9 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}
▲ ASTANA DVOR/ DME (AST)	510006N 0712600E					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
Z588 (RNAV 5)						
▲ KARAGANDA DVOR/DME (KRG)	494114N 0732226E					
	320° 139°	37.6 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ KARAGANDA TOWER 122.0 MHZ {C}
▲ LESNA	501302N 0725127E KRG 319.0° 37.6 NM (1800 FT)					
	319° 136°	129.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}
△ VAGEM	520159N 0710114E AST 336.0° 63.9 NM (1200 FT)					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	316° 135°	50.5 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ RENPA	524400N 0701548E KTU 136.0° 43.9 NM (900 FT)					
	317° 136°	43.9 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ KOKSHETAU TOWER 127.9 MHZ {C}
▲ KOKSHETAU VOR/DME (KTU)	532103N 0693701E					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
<b>Z589</b> (RNAV 5)						
▲ USUGA	433600N 0761934E ATA 287.3° 35.8 NM (2200 FT)					
	310° 129°	19.9 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ REGMU	435005N 0760012E ATA 295.6° 54.6 NM (2200 FT)					
	309° 129°	12.8 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
▲ AGUNA	435906N 0754739E ATA 297° 67.1 NM (2200 FT)					
	309° 128°	72.7 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 133.1 MHZ {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
▲ ANELI		444956N 0743510E BLH 181.0° 124.2 NM (1400 FT)			

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓   ↑	Controlling unit {Airspace class} Remarks
<b>Z621 (RNAV 5)</b>					
▲ ATRAN (FIR BDRY)		422321N 0660522E TRK 236.0° 123.4 NM (1000 FT)			<b>Before, see AIP Uzbekistan</b>
	055° 235°	75.9 NM	FL 510 FL 120	Odd   Even	SHYMKENT ACC 132.7 MHZ {C}
△ RAZBI		425954N 0673533E TRK 239.0° 47.6 NM (1000 FT)			
	055° 236°	38.5 NM	FL 510 FL 120	Odd   Even	SHYMKENT ACC 132.7 MHZ TURKISTAN TOWER 131.3 MHZ {C}
▲ GENDI		431800N 0682200E TRK 254.0° 9.4 NM (1000 FT)			
	074° 254°	9.4 NM	FL 510 FL 120	Odd   Even	SHYMKENT ACC 132.7 MHZ TURKISTAN TOWER 131.3 MHZ {C}
▲ TURKISTAN DVOR/DME (TRK)		431932N 0683446E			
	077° 257°	26.2 NM	FL 510 FL 120	Odd   Even	SHYMKENT ACC 132.7 MHZ TURKISTAN TOWER 131.3 MHZ {C}
▲ ARVAR		432233N 0691027E TRK 077.0° 26.2 NM (1000 FT)			

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	077° 257°	25.5 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ TURKISTAN TOWER 131.3 MHZ {C}
▲ POKAT	432530N 0694508E TRK 077.0° 51.7 NM (1000 FT)					
	077° 258°	48.7 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ {C}
▲ ARBOL	433055N 0705137E TAR 329.0° 42.9 NM (2200 FT)					

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
Z624 (RNAV 5)						
▲ AGADI (FIR BDRY)		480559N 0733338E BLH 314.0° 93.2 NM (1400 FT)				
	312° 132°	29.9 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}
△ LUTEK		482853N 0730459E KRG 180.0° 73.3 NM (1800 FT)				
	312° 130°	114.4 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}
▲ GURPI		495618N 0711236E AST 178.0° 64.4 NM (1200 FT)				
	312° 131°	33.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}
▲ BASPA		502144N 0704001E AST 208.0° 48.3 NM (1200 FT)				

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	309° 128°	26.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}
△ VETUB	504107N 0701250E AST 238.0° 50.1 NM (1200 FT)					
	304° 124°	10.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ OSROL	504818N 0700112E AST 248.0° 55.0 NM (1200 FT)					
	309° 127°	93.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
▲ ATBAN	515824N 0682152E KTU 197.0° 94.6 NM (900 FT)					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
<b>Z627</b> (RNAV 5)						
▲ ZUKFU	425125N 0650356E KZO 184.0° 112.3 NM (500 FT)					
	271° 090°	59.9 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ BARNO	425826N 0634258E KZO 211.2° 130.7 NM (500 FT)					
	270° 089°	37.9 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ UBAGU	430228N 0625120E KZO 221.0° 153.8 NM (500 FT)					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
Z632 (RNAV 5)						
△ REBDA	414708N 069051E SMK 198.0° 38.6 NM (1400 FT)					
	338° 158°	11.3 NM	FL 510 FL 60	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
▲ NIMAG	415801N 0690101E SMK 212° 30.8 NM (1400 FT)					
	338° 158°	29.2 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ SHYMKENT TOWER 125.9 MHZ {C}
▲ ARSUL	422600N 0685000E SMK 271.0° 27.3 NM (1400 FT)					
	333° 152°	25.1 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ SHYMKENT TOWER 125.9 MHZ {C}
▲ LARBA	424922N 0683725E TRK 170.0° 30.2 NM (1000 FT)					
	333° 152°	30.8 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ TURKISTAN TOWER 131.3 MHZ {C}
▲ GENDI	431800N 0682200E TRK 254.0° 9.4 NM (1000 FT)					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
<b>Z727</b> (RNAV 5)						

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ ADARO (FIR BDRY)	504706N 0815242E UKM 325.0° 51.2 NM (1000 FT)					
	145° 326°	51.2 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ UST-KAMENOGORSK TOWER 130.1 MHZ {C}
▲ UST- KAMENOGORS K DVOR/DME (UKM)	500158N 0823031E					
	142° 322°	42.7 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ UST-KAMENOGORSK TOWER 130.1 MHZ {C}
△ ABOTO	492544N 0830521E UKM 142.0° 42.7 NM (1000 FT)					
	142° 322°	2.7 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
▲ ARHIM	492317N 0830743E UKM 322.3° 45.3 NM (1000 FT)					
	142° 322°	6.0 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
▲ NEMEG	491804N 0831242E UKM 332.4° 51.4 NM (1000 FT)					
	142° 324°	100.9 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
▲ LATRI	475217N 0843229E UKM 141.2° 152.7 NM (1000 FT)					
	144° 324°	27.1 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ ZAISAN VYSHKA 118.7 MHZ {C}
▲ ZAISAN L (ZSN)	472906N 0845308E					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
<b>Z746</b> (RNAV 5)						
▲ TUSEP	503136N 0680751E ARK 064.0° 44.4 NM (1300 FT)					
	072° 254°	80.2 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ {C}
△ VETUB	504107N 0701250E AST 238.0° 50.1 NM (1200 FT)					
	073° 253°	35.7 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}
△ LIGMO	504539N 0710837E AST 207.0° 18.2 NM (1200 FT)					
	061° 242°	73.0 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}
△ EDANO	510858N 0725804E AST 072.0° 58.7 NM (1200 FT)					
	062° 244°	88.7 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ {C}
▲ ABELI	513524N 0751312E PVL 232.0° 79.0 NM (500 FT)					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
<b>Z753</b> (RNAV 5)						



Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ OSBOR	410054N 0683059E SMK 201.0° 91.4 NM (1400 FT)					Before, see AIP Uzbekistan
	322° 141°	40.1 NM	FL 510 FL 60	Even	Odd	TASHKENT ACC {C}
▲ IBMOB (FIR BDRY)	413436N 0680213E SMK 226.0° 78.9 NM (1400 FT)					
	321° 140°	101.9 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
▲ PAVEL	425947N 0664642E TRK 249.0° 81.5 NM (1000 FT)					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
Z817 (RNAV 5)						
▲ TARAZ DVOR/ DME (TAR)	425214N 0711654E					
	072° 252°	24.8 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ TARAZ APPROACH 122.1 MHZ {C}
△ GERPU	425739N 0714951E TAR 072.0° 24.8 NM (2200 FT)					
	069° 250°	56.5 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ {C}
△ KULHI	431211N 0730422E TAR 070.0° 81.3 NM (2200 FT)					
	070° 251°	54.2 NM	FL 510 FL 210	Odd	Even	SHYMKENT ACC 132.7 MHZ {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ BOGDI (FIR BDRY)	432517N 0741622E ATA 267.1° 123.1 NM (2200 FT)					
	071° 251°	23.5 NM	FL 510 FL 210	Odd	Even	ALMATY ACC 131.4 MHZ {C}
△ AGLEK	433045N 0744744E ATA 270.4° 100.4 NM (2200 FT)					
	071° 252°	32.9 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ {C}
△ TIPSA	433809N 0753149E ATA 278.4° 69.7 NM (2200 FT)					

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
ADRI	461940N 0805137E	N993	
ADUMI	460903N 0613915E	L163	
AGADI	480559N 0733338E	L998, N126, Z624	
AGAKA	463544N 0805503E	N993	
UNABO	474352N 0714935E	L26, N161	
AGATU	493220N 0594622E	L147, L162	
AGEBO	474010N 0672652E		TMA UAKD
AGERA	430738N 0672650E	N147, N987	
AGILA	444901N 0515422E	N996, Q198	
AGINU	494800N 0761100E	M34, N37, N993	
AGLEK	433045N 0744744E	Z370, Z817	
AGMAN	490942N 0550920E	M161, N60	
AGMEN	471352N 0513428E		TMA UATG
AGMUR	450056N 0644106E	L86, L139	
AGNAT	463927N 0775115E	L143	
AGNIM	453221N 0543918E	L992, P574	
AGPIN	483931N 0754146E	M34	
AGUNA	435906N 0754739E	M149, M618, Z589	
AGURO	511525N 0715011E		TMA UACC
AGURU	532928N 0694548E		TMA UACK
AGUSA	471400N 0820338E	M166	
AKALI	440829N 0611937E	L165, L985	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
AKASA	491819N 0773455E	M993, P984	
AKAZU	404218N 0683815E	L170	
AKELI	494707N 0681322E	L86	
AKIBU	465522N 0515013E		TMA UATG
AKIMU	444353N 0731255E	N147	
AKIRA	454323N 0771829E	L143, Z160	
AKITU	483624N 0681921E	L26, N37, N990	
AKOSO	534140N 0650940E	N60, W355	
AKUKU	425036N 0510509E	P574	
ALABA	481845N 0553938E	L988, N73, T586	
ALAKO	441958N 0735903E	M34, T524	
ALDAZ	464232N 0523825E		TMA UATG
ALEGA	480900N 0713249E	M993	
ALFIL	485654N 0700340E	N37	
ALGAS	504613N 0581203E	A357, N60	
ALILA	454830N 0800916E	L26	
ALOLI	431841N 0764421E		TMA UAAA
ALOTO	445010N 0530653E	N73, P574, Q198	
ALUGI	434745N 0780816E	Z315	TMA UAAA
AMABU	445737N 0781952E		TMA UAAT
AMASO	474914N 0684857E	M993, N161	
AMIGU	491645N 0692517E	M75, P178, Z586	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
ATPOR	445123N 0784955E	N126, Z370	
ATRAN	422321N 0660522E	Z621	
ATRUS	465302N 0670715E	L147, N990	
AVLAK	461214N 0614508E	M199	
AZABI	444424N 0493000E	A87, M610, Q161, Q198	RR-4
AZITI	433936N 0764351E		RR-2, RR-7
AZORI	480139N 0721512E	Z583	
BABUR	452312N 0493000E	N102, N193	
BADAS	442221N 0643656E	L163, L855	
BAGED	471628N 0650016E	L728, N161	
BAGIL	473425N 0741044E	L998	
BAGIR	490131N 0514106E	M158, W324	
BAGNA	434754N 0775719E	Z315, Z370	
BAGNU	530720N 0755304E	P984	
BAGOB	495029N 0823755E		TMA UASK
BAGUT	502745N 0803139E		TMA UASS
BAKID	462633N 0622354E	N167	
BAKIS	440031N 0764333E	L998, W333	
BALGO	430234N 0733602E	M34	
BALIG	431944N 0515018E	Q161	RR-2, RR-4
BALMI	531107N 0704613E	W361, Z584	
BALOK	521416N 0635540E	M741	TMA UAUU

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
BALOL	502308N 0772831E	P984	
BALUN	420100N 0512742E	N55, N73	
BAMAN	451700N 0823700E	L26	
BAMAT	504125N 0781025E	L994, M149	
BAMET	463042N 0663051E	M75	
BAMIK	523517N 0620524E	N60	
BAMOM	505814N 0512427E		TMA UARR
BAMUT	415121N 0692445E	Z554, Z580	
BANOS	501116N 0723844E	N170, W333	
BANOV	503704N 0830918E	L135	
BANUM	474633N 0804834E	M166, M618	
BAPER	433011N 0534642E	L992, N193	
BARAR	425030N 0700344E	N102	
BARKI	545153N 0710000E	A357, N60	
BARNO	425826N 0634258E	M161, Z627	
BARSI	530153N 0695555E		TMA UACK
BARUR	443207N 0791739E	N126	
BASAN	433420N 0735429E	L147	
BASPA	502144N 0704001E	M75, Z624	
BASPI	433257N 0791501E	M610	
BASPU	471514N 0525046E	L51	
BASUN	440216N 0505614E		TMA UATE

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
BATAD	500554N 0640927E	N167	
BATEG	445958N 0781301E		TMA UAAT
BAVAG	531819N 0665235E	N985, T522, W361, Z584	
BEBLU	544630N 0665030E	N167, N170, T522	RR-7
BEDIT	500537N 0821029E		TMA UASK
BEDKA	501318N 0721545E	T523	
BEDMU	541215N 0704523E	P179	
BEDNU	420007N 0692621E	Z554	
BEDOR	482529N 0673251E	M168, N987, W332	
BEDRU	490642N 0623638E	M993	
BEDUR	433546N 0765739E	L998, M610	
BEKAS	514029N 0515327E	L163, M56	
BEKOR	494513N 0623050E	L26, L988, N55	
BEKRO	434850N 0753952E	T524	
BERTO	433159N 0794824E	M610, Z315	
BERVI	434059N 0741156E	M610	
BESOL	502254N 0610548E	M166, T586	
BETIK	480807N 0665309E	L86, Z164	
BETPU	455758N 0675945E	M168	
BIKLU	532548N 0633314E		TMA UAUU
BIKRI	472814N 0752625E	M149	
BIKTO	531235N 0691745E		TMA UACK

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
BILGA	483452N 0552426E	Z210	
BILMO	430414N 0711143E		TMA UADD
BIMDO	441809N 0673135E	M610, N987	
BIMSO	531631N 0652038E	W361, Z584	
BINBU	530105N 0634057E		TMA UAUU
BINRA	423005N 0691638E		TMA UAI
BINRI	432607N 0751309E	L143, Z370	
BIOTA	442124N 0764224E	Z584	
BIPSO	521614N 0772311E		TMA UASP
BITNU	520734N 0764609E		TMA UASP
BOBRO	440648N 0744228E	T524	
BODNU	502346N 0750918E	T649, Z160	
BODSI	445034N 0541914E	L992, M158, N37, Q198	RR-2
BOGDI	432517N 0741622E	Z817	
BOKIS	505736N 0833312E	L135	
BOLGO	494300N 0563525E	Z210	
BOLNA	433712N 0625812E	M161	
BOLSU	511507N 0725620E	L988, N996, W358, Z553	
BOMKA	420232N 0691624E	P178	
BONZU	481815N 0833043E	Z208	
BORIS	425127N 0660533E	N147	
BUDER	521310N 0632052E	L165	TMA UAUU



Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
BUDET	445507N 0645824E	L139, M75	
BUDUL	471917N 0514811E		TMA UATG
BUGEB	410824N 0670836E	P180	
BUKEN	440406N 0650744E	N990	
BULOG	500854N 0660036E	L145, N996	
BURID	470234N 0810051E	N161, N993, Z370	
BURIK	470012N 0675152E	M168	
BUSAB	444159N 0651844E		TMA UAOO
DAKIN	540930N 0722418E	L86, M75, N55, N990, T586	
DEKED	433653N 0741306E	Z370	
DEMAS	424732N 0712008E	L145	
DEPIR	540211N 0662405E	N60, N167, W355	
DERAD	474634N 0703805E	N161	
DESER	445502N 0753100E	N143, Z583	
DESOK	441629N 0775521E	L135	
DETAK	434823N 0765029E	L855, L998	
DETOV	501555N 0731235E	Z553	
DEVNA	500647N 0833619E	M993	
DIBAD	411700N 0675600E	N193, Z554	
DIBUK	472631N 0754536E	N102	
DIDAL	512908N 0695453E	L994	
DIDOB	544558N 0693143E		TMA UACP

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
DIDOP	433941N 0633027E	L162	
DIKAM	443650N 0663555E	L855	
DILGI	504833N 0772303E	L994, P984	
DILIR	493452N 0625056E	N996	
DILNA	441450N 0644911E	L163, P184	
DILOL	433936N 0512339E		TMA UATE
DILVA	533219N 0693807E		TMA UACK
DIMPA	463633N 0495959E	L864, L988	
DINBO	480029N 0664647E	M993	
DIPSU	475340N 0675220E		TMA UAKD
DIPUD	500238N 0571914E		TMA UATT
DIRIN	501352N 0822119E		TMA UASK
DISAD	434529N 0511835E		TMA UATE
DITKI	482034N 0692417E	L26, L51	
DITLO	431708N 0765420E		TMA UAAA
DITSO	470443N 0671637E	N990, W332	
DITSU	441934N 0743855E	N143	
DIVNO	454418N 0574000E	M610, N161	RR-2
DODEM	484212N 0773614E	M166, N102, P984, W348	
DODID	520353N 0765234E		TMA UASP
DODOK	451420N 0760011E	L998, N143	
DODOL	423536N 0712617E		TMA UADD

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
DODUR	412300N 0684800E	L163, M168, P178, Z554, Z578, Z580	
DOGEL	442430N 0525059E	N37, N73	
DOKUS	502539N 0513528E	M158, W324	
DOKUT	524814N 0651230E	L994, L998	
DOLEP	470047N 0520352E		TMA UATG
DONUP	423759N 0694912E	N102	
DONUR	473022N 0750038E	Z160	
DOPAN	521213N 0625401E	Z582	
DOPAR	481831N 0682229E	M75	
DOSAK	520044N 0781212E	P179, N985	
DOSOR	415702N 0691225E	P178	
DOTAL	440745N 0780904E	Z160, Z370	
DOZIN	492040N 0721800E	L51, N37, W351	
EDADU	430032N 0710621E		TMA UADD
EDAKO	504120N 0522510E	M161	
EDANO	510858N 0725804E	L994, Z553, Z746	
EDETO	495808N 0670732E	M168, N987, P574, W332	
EDIBA	424519N 0682349E	Z380	
EDOLO	465805N 0515702E		TMA UATG
EDOSA	521955N 0771645E		TMA UASP
EKDAD	482100N 0562959E	N996, M161	
EKLAT	432230N 0753237E	Z370	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
EKLOP	482530N 0651734E	M741, M993	
EKNIL	444003N 0732651E	N102	
EKNOD	494703N 0733707E		TMA UAKK
EKPIN	482805N 0535721E	N60	
EKTAB	494555N 0750718E	N37, Z160	
EKTEN	513242N 0523030E	A122, M158, Z102	
EKTUS	514225N 0765305E	L988, M34	
ELENU	435017N 0741838E	L855	
ELSEB	463234N 0675439E	L147, M168	
ELSUT	511342N 0805506E	G121, L143	
EMBEK	502333N 0625947E	M166	
ENETO	494223N 0591154E	L147, T586	
ENONA	480316N 0763820E	N102	
EPOLI	472234N 0541316E	L51, N996	
ERKIS	484421N 0572756E	L163, L988	
ERMEK	441245N 0661954E	Z380	
ERNEN	504754N 0642731E	M741, N55	
EROMI	461234N 0762117E	Z160	
ERSAS	532341N 0632455E		TMA UAUU
ERTOL	421834N 0694354E		TMA UAI
ERTUZ	441307N 0641019E	L86, L855, T916	
ERUTA	480837N 0604210E	L162	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
ESADO	470607N 0760037E	W336, Z243	
ESUMA	491025N 0765006E	M149, M993	
ETEDA	442024N 0763206E	L143, L998, W333	
ETELA	481055N 0554657E	N996	
ETORI	503208N 0790845E	L994	
ETOTU	525858N 0633244E		TMA UAUU
ETRAN	463321N 0780521E	N143	
FAZUL	440916N 0613731E	M875, T916	
FINON	450211N 0773900E	P984	TMA UAAT
FULSA	453758N 0784751E	L135	TMA UAAT
GAGSU	522335N 0771018E		TMA UASP
GAKMA	440610N 0774907E	L135	
GALKI	511035N 0771814E	P984, T649	
GALSU	461126N 0804952E	N993	
GAMBU	441106N 0702401E	L145, L855	
GANGA	530026N 0695146E		TMA UACK
GARDU	453219N 0523200E	N996, Z102	
GASBI	422611N 0502811E	A357, N60, N161	RR-2
GASBU	434640N 0791528E	Z315	
GEDNO	502211N 0740032E	N993	
GEDSA	483738N 0624054E	L147, L165, L728, P574	
GEGSI	471634N 0514119E		TMA UATG

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
GEKSO	431544N 0664228E	M741	
GEKTI	433253N 0771244E		TMA UAAA
GEMBO	500256N 0625600E	L165, N55	
GENDI	431800N 0682200E	L139, M168, N147, Z621, Z632	
GENGA	461625N 0773739E	L26, L143, N143, N147, P984	
GERLI	495334N 0535254E	M56, M161	
GERPU	425739N 0714951E	L728, Z817	
GIGDA	461942N 0801638E	Z370	
GIGRI	441248N 0521256E	N37	
GIGUR	444920N 0645300E	M75, M610	
GIKON	531041N 0700822E		TMA UACK
GILAK	465738N 0815536E	N161	
GILAT	415707N 0660000E	N102	
GIMRI	434530N 0672931E	L139, N987	
GIREM	473219N 0743709E	N170, W333	
GIRUL	430826N 0520542E	N73, Q161	
GISEK	443231N 0652559E		TMA UAOO
GISIR	465704N 0665732E	L147, M75	
GISTO	472457N 0524654E	L988	
GITIM	441752N 0662540E	M741, L139	
GITNA	524459N 0652518E	L994, M168	
GITUD	490032N 0780418E	N102, N993	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
GOBDI	545052N 0692749E		TMA UACP
GOBOR	433811N 0681918E	M168, P178	
GOBSO	505523N 0763521E	L994, M34, T649	
GOGDI	470320N 0525055E	L139	
GOGDO	442524N 0772618E	P984	
GOLGI	453153N 0533543E	M158, N73	
GOLTU	500404N 0741911E	T649	
GOMAL	470809N 0795150E	L135, M618, N161	
GOMIR	501042N 0844206E	N143, M618, M993	
GONEL	483912N 0735912E	M993, N170	
GORBO	490316N 0761100E	M166, M993, W348	
GORIM	484905N 0672456E	L26, L86, M168, N987	
GORVA	462455N 0664655E	N990, W332	
GOSLU	431413N 0764830E		TMA UAAA
GOSPA	485256N 0633233E	M993, N167, P574	
GULDO	495223N 0562651E	N60	TMA UATT
GUMGA	510752N 0630806E	T586	
GURPI	495618N 0711236E	M166, Z586, Z624	
GUTAN	514024N 0505912E	A368, M161	
IBDAS	473412N 0782432E	L143, Z243	
IBLAN	511832N 0710620E		TMA UACC
IBMOB	413436N 0680213E	Z753	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
IDILI	443608N 0780716E	L135	TMA UAAT
IDMIS	444251N 0655218E		TMA UAOO
IKANA	545924N 0681200E	A359, P179	
INDAG	440635N 0725812E	L147, T916	
INKOL	480633N 0652413E	M741, N37	
INKUM	454952N 0620739E	L139, L162, L163, L165, M199, N167	
INLIG	441743N 0701919E	T916, L145	
INLUL	463730N 0803449E	Z370	
INREL	424136N 0713019E		TMA UADD
INRIK	500744N 0692030E	N990, M166	
INRIS	512800N 0521856E	A122, M158	
INRUM	524302N 0740047E	Z584	
INTAL	484345N 0702839E	W351	
IPKOD	495415N 0644617E	N996, M741	
IPLED	432348N 0493000E	G96, N37	RR-8
IPNIL	505034N 0643305E	N55, N167	
IPRAR	404431N 0683447E	M168	
IRGIT	485220N 0750436E	M993, Z160	
ITAKA	435224N 0493000E	L864, N154, R227	
IZIMA	432236N 0770503E	L135, L998, N170, P984, Z315, Z370	
KANZI	502504N 0742336E	W351	
KARIM	431136N 0674737E	N147, Z380, Z579	



Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
KEDUL	511959N 0514052E		TMA UARR
KEKAM	512300N 0771529E	P984	TMA UASP
KEKUN	492143N 0581653E	M199, T586	
KERUL	415128N 0520821E	Z581	
KESOS	433713N 0512713E		TMA UATE
KESOT	500111N 0600343E	L26, T586	
KEZUT	452811N 0790448E	N993	TMA UAAT
KODOL	511638N 0695651E	T523	
KODUM	475556N 0544537E	L988, N996, Z210	
KOKAV	542244N 0673738E	N60, N170, W355	
KOKON	500958N 0702609E	M75	
KOLAM	423702N 0702540E	N143, Z580	
KOLIB	454047N 0512848E	N60, W324	
KOLUR	515901N 0704103E	N170, N990, W333	
KOMOS	424517N 0713537E		TMA UADD
KOMRE	455641N 0572649E	N37	
KONAT	452754N 0774805E	P984, Z160, Z584	
KONEK	460631N 0750443E	M149	
KORAG	435134N 0560000E	N102, N154	
KUDUG	433216N 0675457E	L139	
KUGIR	440625N 0705906E	L855, N147	
KUGUN	493139N 0685550E	N990	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
KULHI	431211N 0730422E	Z817	
KUNAS	430923N 0560000E	N193	
KURAB	442311N 0610344E	N167	
KUROL	475900N 0704800E	L26, M993	
KURUL	485059N 0554051E	M161, Z210	
KUSOT	502128N 0655110E	L145, M166	
KUSUM	514420N 0644639E	L145, T586	
LAGMO	514954N 0791500E	L988, M149, N985, P179, T649	RR-3
LAGUK	440528N 0795517E	N126	
LAKEL	431216N 0765439E	L135, P984	
LALAS	485941N 0755014E	M34, M993	
LALKA	530017N 0683140E	T586	
LALRI	500626N 0572512E		TMA UATT
LAMGI	500657N 0644154E	L988, M741	
LANIN	472659N 0545937E	L51, N73	
LANOL	411133N 0685506E	N193, Z578	
LANOR	540536N 0624042E	L145, L985, L998, M741, N993, R482	RR-6
LANUK	493317N 0623239E	N996	
LARBA	424922N 0683725E	Z632	
LARoz	451010N 0521956E	M610	
LARPI	501721N 0560345E	M166	
LASDO	462443N 0755651E	Z160	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
LASNA	492602N 0815315E	L135	
LASPA	534852N 0684219E	N170	
LATKO	522508N 0664427E	L994, T522, T586	
LATNU	445345N 0612553E	L985, M161, N167	
LATRI	475217N 0843229E	Z208, Z727	TMA UASZ
LAVLO	545546N 0692355E		TMA UACP
LEDPO	444735N 0654840E		TMA UAOO
LEGLA	432826N 0771654E		TMA UAAA
LEKLU	450701N 0754903E	N143, N170	
LEMDU	470002N 0674228E	N987	
LENTA	514854N 0602236E	L993, N60	
LEPRA	532811N 0725005E	P179	
LEPSI	465750N 0534950E	L139, N996	
LESNA	501302N 0725127E	Z588	
LETIK	551200N 0683200E	A303, N987	
LIGMO	504539N 0710837E	M75, T523, Z746	
LIKRU	431730N 0765447E		TMA UAAA
LIMTO	440138N 0684518E	M610	
LIPSI	461808N 0784001E	M618, Z584	
LIRMO	530945N 0692524E		TMA UACK
LIRNA	501159N 0812203E	L994, W361	
LITBA	501849N 0582332E	M166	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
LITNO	492856N 0730737E		TMA UAKK
LODEZ	531715N 0623004E	G111, L985, L994	
LOGTO	483204N 0561202E	L992, M161, T586	
LOLBI	501913N 0565328E		TMA UATT
LONSI	435826N 0743022E	T916	
LUGER	464426N 0655200E	L86, L728, M741	
LUKET	473310N 0562135E	L51	
LUKUR	443112N 0673226E	L855, N987	
LUKUS	480759N 0741658E	N170, W333	
LULEK	524106N 0700733E	N170, W333	
LULKE	485932N 0522700E	Z102	
LUMUD	495933N 0760202E	W352	
LUMUR	430639N 0512953E	Z581	
LUNOV	493800N 0801801E	W360, Z584	
LUREL	501613N 0790803E	N37, W352	
LURIT	432931N 0761943E		TMA UAAA
LURUM	494127N 0564322E	N73	
LUSAM	511128N 0515127E		TMA UARR
LUSIR	510229N 0511911E		TMA UARR
LUSUT	474510N 0680213E		TMA UAKD
LUTEK	482853N 0730459E	M993, Z624	
LUZMI	422426N 0681456E	M168	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
MADEV	471857N 0770328E	N161, W336, Z243	
MAGOL	425338N 0685144E	L139, P178	
MAKEK	461854N 0791700E	L135	
MAKUT	483217N 0683632E	L26, M75	
MALOD	451812N 0751037E	M149, N147, Z583	
MAMIR	425438N 0763642E	L135, P984	RR-7
MANAD	491421N 0604601E	L147, N996	
MAROR	453720N 0753509E	N170	
MASAV	450507N 0551053E	N37, N55, N161	
MASED	510644N 0511355E		TMA UARR
MEDOL	433425N 0531659E	N55, N193	
MIHOS	441332N 0712336E	N147, T916	
MIKDO	425058N 0714551E	Z580	
MIKNO	420200N 0681200E	L163, M168, N143, Z579	
MIKSA	511608N 0784241E	M149, Z584	
MILSO	452519N 0604609E	M161, M610	RR-2, RR-5
MIMKA	502620N 0693328E	N990	
MIMRI	433808N 0634822E	L86, M75, P184	
MIRGA	452416N 0693051E	L145	
MISPU	435002N 0512237E		TMA UATE
MOGTU	485209N 0543832E	N60	
MOMUL	411524N 0664024E	P180	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
MONEG	523627N 0671849E	N993, T586	
MULTA	510442N 0565042E	A360, M199, M875	
MUZEL	433756N 0692447E	N147	
NAGAZ	490336N 0504220E	L736	
NARUR	513200N 0641130E	M741, T586	
NASAB	435310N 0504810E		TMA UATE
NASIP	430347N 0715332E	N143	
NASMO	451929N 0782626E		TMA UAAT
NATUS	445208N 0643650E	M610	
NEBSO	474925N 0675717E		TMA UAKD
NEGMI	511245N 0714553E		TMA UACC
NELOL	462733N 0530638E		CTR UATZ
NELTI	541942N 0641630E	L165, M168	
NEMEG	491804N 0831242E	M618, Z727	
NEMKU	485904N 0734736E	N170, W333	
NEPIL	434133N 0522455E	N73, N193, Z102	
NEPLA	470920N 0740031E	L26	
NESDO	454926N 0544739E	L992	
NESUN	460123N 0801738E	N993	
NETAT	403653N 0682413E	M168	
NIGET	434124N 0771126E	L855, P984	
NIKNA	462557N 0513838E	N60, W324	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
NIKVI	473555N 0673148E		TMA UAKD
NIMAD	495842N 0824844E		TMA UASK
NIMAG	415801N 0690101E	Z632	
NINAG	462208N 0584556E	N37, L139	
NINBU	505748N 0583554E	A357, N60	
NINKO	471748N 0810819E	Z208, Z243	TMA UASU
NIPAL	462919N 0764342E	L26	
NIRAN	461504N 0615245E	L162	
NITNA	433032N 0633601E	L162, M75	
NODSA	544646N 0685017E		TMA UACP
NOKNA	495154N 0811139E	M993	
NONKE	443400N 0781634E	Z160	TMA UAAT
NONDI	460552N 0673842E	N987	
NONRI	493111N 0785223E	N102, M993	
OBAMA	460212N 0690233E	L145, L147	
OBAPI	472530N 0773700E	Z243, P984	
OBARU	472917N 0751312E	M34	
OBATA	462130N 0491148E	L988	
OBIBU	445219N 0654502E		TMA UA00
OBUNA	505513N 0791803E	W361, Z584	
ODAMA	503331N 0753513E	T649	
ODATU	505427N 0710518E		TMA UACC

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
ODILA	494259N 0575122E	M199, M875, L728	
ODIVA	423530N 0640848E	L162, M161, N990	RR-5
ODLUR	432532N 0771101E		TMA UAAA
ODORI	415901N 0684908E	Z578	
ODPUT	473004N 0553846E	L51, L992	
OGADO	453804N 0810107E	L26	
OGANU	462857N 0565153E	N55, P574	
OGAPI	512648N 0511336E	A368, M161	
OGIRU	433336N 0765119E		TMA UAAA
OGLUP	510857N 0715158E		TMA UACC
OGOKI	502245N 0643432E		RR-1, RR-6
OGOLI	412858N 0663632E	N143, N193	
OGRIP	405454N 0680500E	P178, P180, Z580	
OGTOL	424905N 0733002E	L728, Z580	
OGUDU	501516N 0795419E		TMA UASS
OKESO	411051N 0673608E	Z554	
OKRAT	433034N 0765506E		TMA UAAA
OKSOL	495436N 0824319E		TMA UASK
OLAPU	475146N 0514531E	M158, W324	
OLGAS	520510N 0714507E	M75	
OLINA	451645N 0615140E	L165, M610	
OLKUM	530441N 0741300E	P179	



Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
OMITO	501033N 0581909E	L26	
OSBOR	410054N 0683059E	Z753	
OSMOG	473140N 0673643E		TMA UAKD
OSNER	482119N 0785409E	M166, L143	
OSROL	504818N 0700112E	L988, N996, W358, Z624	
OSTAG	502223N 0803234E		TMA UASS
OTMAS	460419N 0530034E	M158, N996	
PABRI	451455N 0704239E	L147, T524	
PAVEL	425947N 0664642E	L163, M741, N147, Z753	
PEKIR	433539N 0770931E	M610, P984	
PEMOL	464841N 0551720E	L139, L992	
PETEM	480656N 0553022E	N73, N996	
PETOR	535420N 0713136E	P179, T586	
PIGAL	433428N 0780356E	M610	
PIKAN	425300N 0493000E	A80, N996	
PILEL	425035N 0731336E	L728	
PIMIB	501013N 0573110E		TMA UATT
PIRIM	444808N 0511741E	N60, Q198, W324	
PIVAL	514549N 0775050E	L988, W361, Z584	
POBEK	432534N 0672754E	N987, Z380	
POBUR	533800N 0721400E	M75, P179, Z553	
POKAT	432530N 0694508E	Z621	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
POMNI	510638N 0493240E	L864	
RABEN	502602N 0795343E		TMA UASS
RALAN	440812N 0493000E	A924, Z581	
RAVNI	504030N 0615807E	L985, T586, Z582	
RAVOB	404718N 0683330E	L143	
RAZBI	425954N 0673533E	Z621	
REBDA	414708N 0690515E	P178, Z632	
REGMU	435005N 0760012E	L143, Z589	
REGPI	485632N 0650629E	M741, Z164	
REKRU	531530N 0701102E		TMA UACK
RELGE	435304N 0530630E	N154, N161	
RELGO	500234N 0701730E	M75, M166	
RELRU	424925N 0681812E	M168, Z380	
REMOL	442704N 0681238E	L855, M168	
REMTI	470757N 0670843E	M75	
RENPA	524400N 0701548E	Z588	
RENPI	463437N 0522656E	M158, Z102	
REPLA	452358N 0533011E	N73	
RESBA	462255N 0621359E	L165	
RESDO	475618N 0595446E	M199	
RIBMO	442238N 0520908E	P574	TMA UATE
RIGDO	495937N 0581049E	L147	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
RIKPI	455225N 0794910E	L26, N993, Z370	
RIKRI	465319N 0543423E	L139, N73	
RILBA	485158N 0585148E	M199, N996	
RILOK	431224N 0662729E	L163	
RIMDO	431940N 0631837E	M75, M161	
RIMIR	524153N 0690123E	N987	
RIMUN	502651N 0570524E		TMA UATT
RINET	443026N 0663402E	M610	
RINIT	435305N 0535549E	L992, N154	
RINUR	482255N 0681040E	N990	
RISAD	441324N 0761312E	N170	
RISAS	435854N 0715247E	L855, N102	
RISUL	464525N 0773723E	P984	
RITAB	454308N 0754239E	L998, W333	
RITAL	414130N 0671206E	N143, M741	
RITET	464937N 0623417E	N161, N167	
RITMU	441806N 0723603E	L147, N102	
RIVUT	493332N 0730316E		TMA UAKK
ROBIZ	443142N 0662450E		RR-2, RR-6
RODAM	431348N 0741934E	L147	
RODRO	411433N 0690034E	L163	
ROGIR	501701N 0803329E		TMA UASS

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
ROGUN	531944N 0682341E	W361, Z584	
ROHIL	511738N 0754034E	L51, W351	
ROKOD	494408N 0801719E	M993, Z584	
RONED	494226N 0734127E		TMA UAKK
RONRO	500944N 0821555E		TMA UASK
ROPEL	544155N 0685416E		TMA UACP
ROPIM	505038N 0711120E		TMA UACC
ROSID	483440N 0762005E	M149	
ROSIM	423415N 0672453E	L163, N987	
RUDAL	512154N 0675222E	L998, N987	
RUDIZ	471122N 0790856E	N143, N161	
RUGUS	474250N 0591219E	L51, L163, M875	
RULAD	433001N 0804359E	M610, N126	RR-2
RUSEK	424549N 0690116E	L139, P178	
RUTIL	421053N 0510433E	P574, Z102	
SANIR	505230N 0572942E	G552, L992	
SANUR	455717N 0612446E	L139, L985	
SARIN	465156N 0825317E	M166, N161	RR-1
SEHAL	494940N 0721215E	M166	
SIRHA	494354N 0730121E		RR-1, RR-7
SIVKO	501827N 0543349E	L163, L728, M166	RR-1
SOMIP	502106N 0801402E	G96, G121, L143, L994, N37, N102, Z584	

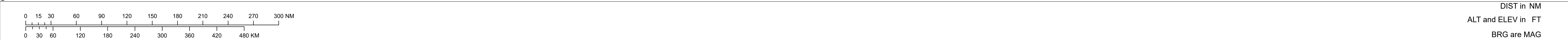
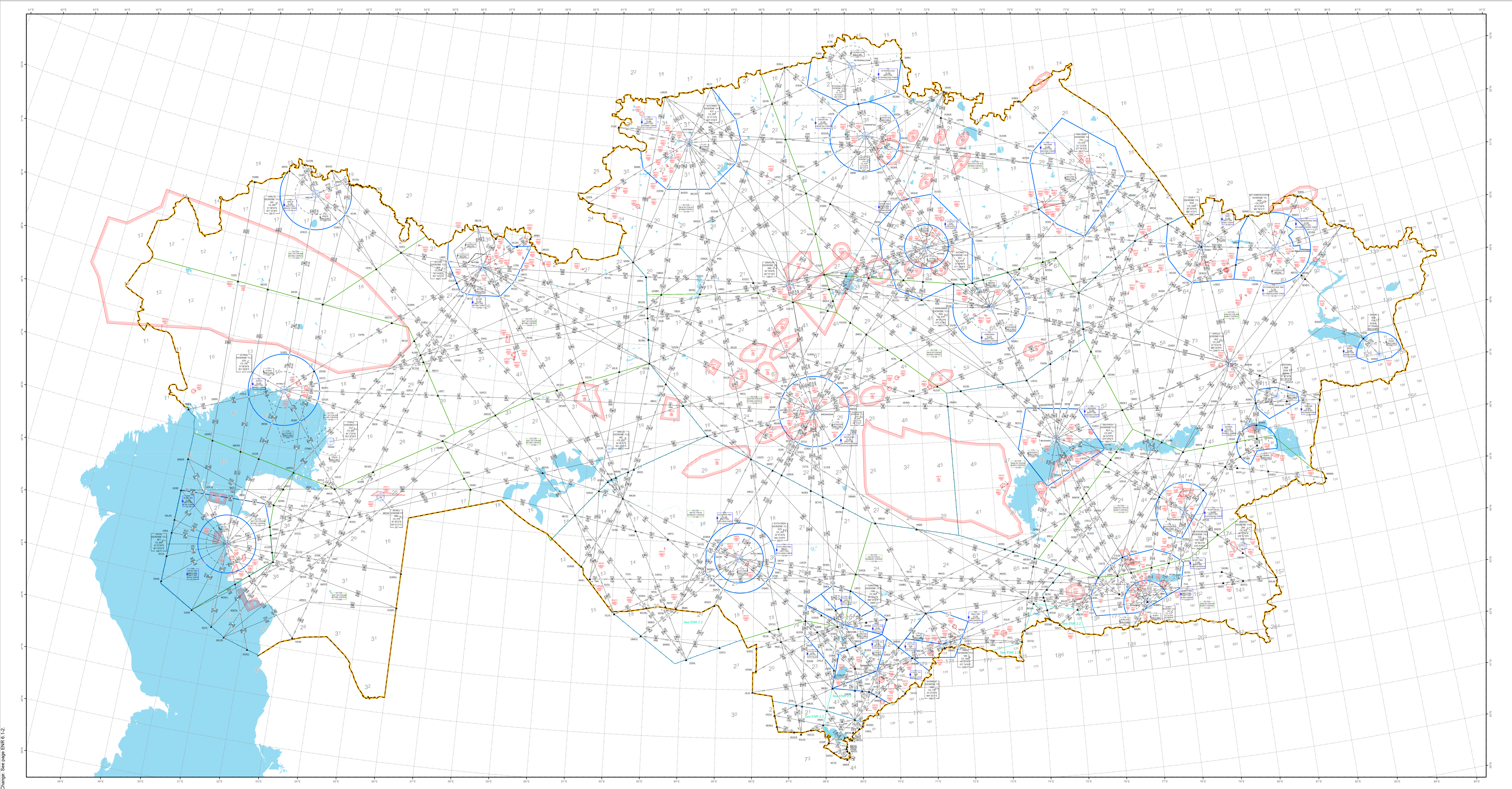
Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
SOMOL	534918N 0745629E	P984	
SOPRA	434455N 0775106E		TMA UAAA
SUBAN	463355N 0762353E	L26	
SUBOL	474716N 0645433E	L51, L147	
SUGUM	432507N 0771027E		TMA UAAA
SUKUR	494431N 0661957E	L145, P574	
SULET	430602N 0743503E	L143	
SULIB	494914N 0742808E	N37, W352	
SURAR	481318N 0631317E	N167	
SUTUR	501837N 0711714E	Z586	
TAGAL	485638N 0763825E	M149, M166	
TENLU	495139N 0733246E		TMA UAKK
TENRO	445953N 0741408E	M34, N102, N147	
TETKI	540020N 0692425E	N987, W333	
TIBDA	493800N 0632900E	L26, N996, Z164	
TIGTA	432728N 0620446E	L855, M875	
TIKTO	494006N 0565014E	L992	TMA UATT
TIMKA	440832N 0681511E	M168, M610, P178	
TIPEN	435532N 0632045E	L162, L855	
TIPSA	433809N 0753149E	L143, M610, Z817	
TIRBA	433456N 0773031E	L135, L855, M610, Z315, Z370	
TIROK	472456N 0655037E	L147, N161	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
TIROM	421434N 0531720E	L992, Q161	RR-4
TIROP	421942N 0691234E		TMA UAI
TISRA	463851N 0564100E	L139	
TITIL	443944N 0543810E	N55, N161	
TITUR	532406N 0610924E	G111, L994, N985	RR-3
TOGDI	472143N 0731457E	L26, Z583	
TOKNA	482525N 0750316E	Z160	
TOLKI	473415N 0811640E	M166, Z208	
TOMGO	434146N 0734454E	L147, L855, M34, M610, N143, Z370	RR-2
TONLA	421334N 0681508E	N102	
TOZIS	490511N 0494538E	L864	
TOZLI	441054N 0621817E	M161, T916	
TUGLA	465142N 0505006E	L736, L988	
TUKNA	451058N 0623308E	L162, M610	
TUKTO	441136N 0760830E	Z583	
TULFA	500354N 0764539E	W352	
TULGA	415347N 0701204E	L139	
TULPI	461318N 0752358E	L998, W333	
TUMIN	530655N 0693301E		TMA UACK
TURIK	423108N 0700422E	N143	
TUOK	442214N 0685447E	L728, L855	
TUSEP	503136N 0680751E	L988, L993, N126, N996, W358, Z583, Z746	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
TUTUL	463825N 0674057E	L147, N987	
TUXOK	543701N 0685814E		TMA UACP
UBAGU	430228N 0625120E	M75	
UDATO	473801N 0573755E	L51, M161	
UDEBA	473802N 0523443E	N60, Z102	
UDEKA	455252N 0770006E	N143, Z160	
UGLUK	484125N 0555642E	M161, N73	
ULKAP	490729N 0755332E	M34, M166	
ULRIP	474743N 0634635E	L51, N37	
ULSET	530027N 0720230E	M75, W361, Z584	
ULSON	435244N 0522039E	N154	
UMDEM	485611N 0665322E	L26, L145	
UMIRO	441421N 0763537E	L998, Z584	
UMKAS	414012N 0672149E	N987	
UMLOD	432218N 0750715E	L143, M618	
UNABO	474352N 0714935E	N161, L26	
UNADA	433551N 0764831E	M610, N170	
UNIBE	522328N 0643445E	W332	
UNITO	450238N 0632952E	L163, M610	
UNKAB	525439N 0724332E	Z584	
UNLOM	501425N 0740834E	L51, W351	
UNREN	423755N 0712502E		TMA UADD

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
URABU	455108N 0500407E	L864	
URUSU	504142N 0585724E	L162	
USUGA	433600N 0761934E	M610, T524, Z583, Z589	
UTORI	451248N 0535555E	P574	
UVASU	404236N 0681306E	L143	
UVTOK	493924N 0794524E	L143, M993	
UZLOR	464915N 0613205E	L162, L985	
VAGEM	520159N 0710114E	Z588	
VAKES	433230N 0510000E		TMA UATE
VAMRI	501330N 0681645E	M166, P574	
VAMUK	403400N 0683430E	L170	
VETUB	504107N 0701250E	P574, Z624, Z746	
VETUS	532638N 0695329E		TMA UACK
VEVIK	505201N 0523529E	M56, M166, Z102	
ZAZBU	532352N 0630332E		RR-3, RR-6
ZUKFU	425125N 0650356E	Z627	
ZURGO	441233N 0631012E	L162, T916	
ZUSLA	423838N 0675917E	Z579	





- Reporting point

Radionavigation aids

Airspace
- △

 On Request

•

 Compulsory

○

 Aerodrome

□

 DME

⊙

 NDB

⊕

 VOR

⊗

 Compass rose

—

 FIR - Flight information region

—

 State Boundary

▭

 ATZ - Aerodrome traffic zone

▭

 CTR - Control zone

▭

 FIR SECTOR

▭

 TMA - Terminal Control Area

▭

 Danger; Prohibited; Restricted Areas

▭

 Delegated Airspace

▭

 Hydrography
- Area minimum altitude (AMA)  
Example: 18600 FT - 18<sup>6</sup>



**CHANGES:**

ROUTE	SEGMENT	MOCA
A357	VOR AKB : ALGAS	3200 FT
L139	ABDUN : NINAG	2000 FT
L139	NINAG : TISRA	1700 FT
L145	GAMBU : INLIG	2200 FT
L145	INLIG : MIRGA	2400 FT
L147	INDAG : RITMU	2300 FT
L147	TOMGO : INDAG	2600 FT
L163	ERKIS : SIVKO	2100 FT
L163	RUGUS : ERKIS	3000 FT
L165	EMBEK : GUMGA	2000 FT
L165	GEMBO : EMBEK	1700 FT
L165	GUMGA : BUDER	2000 FT
L728	BAGED : GEDSA	1800 FT
L728	LUGER : BAGED	2000 FT
L728	OGTOL : PILEL	7000 FT
L728	PILEL : GERPU	7500 FT
L988	ALABA : ERKIS	2000 FT
L988	ERKIS : BEKOR	3600 FT
M161	EKIDAD : LOGTO	1900 FT
M161	UDATO : EKIDAD	2100 FT
M741	ARBIM : IPKOD	1700 FT
M741	EKLOP : REGPI	2000 FT
M741	ERNEN : NARUR	1800 FT
M741	INKOL : EKLOP	1900 FT
M741	IPKOD : LAMGI	1500 FT
M741	LAMGI : ERNEN	1700 FT
M741	LUGER : INKOL	2000 FT
M741	REGPI : ARBIM	1900 FT
M993	DINBO : EKLOP	3800 FT
M993	EKLOP : GOSPA	1900 FT
N102	DODEM : GITUD	4700 FT
N102	GITUD : NONRI	5700 FT
N161	AMASO : DERAD	3700 FT
N161	ARKAM : BAGED	1600 FT
N161	BAGED : TIROK	2000 FT
N161	DERAD : UNABO	4300 FT
N167	ADEKU : IPNIL	1600 FT
N167	IPNIL : DEPIR	2000 FT
N37	INKOL : AKITU	3700 FT
N37	KOMRE : NINAG	1700 FT
N37	NINAG : ULRIP	2600 FT
N37	ULRIP : INKOL	1700 FT

ROUTE	SEGMENT	MOCA
N55	ERNEN : IPNIL	1700 FT
N55	GEMBO : ERNEN	1800 FT
N55	IPNIL : ATNON	2400 FT
N60	VOR AKB : ALGAS	3200 FT
N60	EKPIN : MOGTU	1400 FT
N60	UDEBA : EKPIN	1300 FT
N993	VOR AGZ : GITUD	6300 FT
N993	GITUD : AGINU	6300 FT
N996	EKIDAD : RILBA	3300 FT
N996	ETELA : EKIDAD	1900 FT
N996	IPKOD : BULOG	2000 FT
N996	TIBDA : IPKOD	1600 FT
P179	ADASA : OLKUM	1500 FT
P179	LEPRA : POBUR	2100 FT
P179	OLKUM : LEPRA	1500 FT
P984	OBAPI : DODEM	4500 FT
P984	RISUL : OBAPI	4000 FT
T916	INDAG : LONSI	5200 FT
T916	INLIG : MIHOS	2300 FT
T916	MIHOS : INDAG	2300 FT
T916	TUOK : INLIG	2400 FT
Z164	BETIK : REGPI	3700 FT
Z164	REGPI : TIBDA	1900 FT
Z243	MADEV : OBAPI	4000 FT
Z243	OBAPI : IBDAS	4100 FT
Z584	ADODA : INRUM	1500 FT
Z584	INRUM : UNKAB	1700 FT
Z584	UNKAB : ULSET	1800 FT

**Add new designated points(21):**

BAGED, DERAD, EKIDAD, EKLOP, EKPIN, ERKIS, ERNEN, GITUD, INDAG, INKOL, INLIG, INRUM, IPKOD, IPNIL, LEPRA, NINAG, OBAPI, OLKUM, PILEL, REGPI, UNKAB.

**Renamed designated point:**

AGAKO →UNABO.

## UATT AD 2.13 Declared Distances

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
12	3202	3602	3202	3202	Nil
30	3202	3602	3202	3202	Nil

## UATT AD 2.14 Approach And Runway Lighting

RWY Designator	APCH LGT type, LEN, INTST	THR LGT colour, WBAR	VASIS, (MEHT), PAPI	TDZ, LGT LEN	RWY Centre Line LGT Length, spacing, colour, INTST	RWY edge LGT LEN, spacing, colour, INTST	RWY End LGT colour, WBAR	SWY LGT LEN, colour	Remarks
1	2	3	4	5	6	7	8	9	10
12	CAT I (PALS) 900 M LIH	GRN Nil	PAPI LEFT/3°	Nil	Nil	3202m, spacing 60m, 0-2602m white, last 600m yellow LIH	RED Nil	Nil	Turn pad: yellow
30	CAT I (PALS) 870 M LIH	GRN Nil	PAPI LEFT/3°	Nil	Nil	3202m, spacing 60m, 0-2602m white, last 600m yellow LIH	RED Nil	Nil	Turn pad: yellow

## UATT AD 2.15 Other Lighting, Secondary Power Supply

1	ABN/IBN location, characteristics and hours of operation	ABN: Nil IBN: Nil
2	LDI location and LGT Anemometer location and LGT	LDI: Nil Anemometer: from THR 30 - 350m, THR 12 - 430m
3	TWY edge and centre line lighting	TWY B EDGE: BLU TWY A, C Nil
4	Secondary power supply/switch-over time	Nil
5	Remarks	Nil

## UATT AD 2.16 Helicopter Landing Area

NIL

## UATT AD 2.17 ATS Airspace

1	Designation and lateral limits	AKTOBE CTR 503212N 0572618E - 501736N 0573954E - 500204N 0574243E - 495345N 0571844E - 500221N 0565157E - 501500N 0563927E - 503110N 0565449E - 503212N 0572618E
2	Vertical limits	4000 FT ALT / GND

3	Airspace classification	C
4	ATS unit call sign Language(s)	AKTOBE VYSHKA RU AKTOBE TOWER EN
5	Transition altitude	10000 FT
6	Hours of applicability	H24
7	Remarks	Nil

#### UATT AD 2.18 ATS Communication Facilities

Service designation	Call sign	Frequency	SATVOICE number(s)	Logon address	Hours of operation	Remarks
1	2	3	4	5	6	7
ATIS	AKTOBE ATIS (EN) AKTOBE ATIS (RU)	126 MHZ 127,8 MHZ	Nil	Nil	H24	Nil
TWR	AKTOBE TOWER (EN) AKTOBE VYSHKA (RU)	120,9 MHZ	Nil	Nil	H24	Nil

#### UATT AD 2.19 Radio Navigation And Landing Aids

Type of aid, MAG VAR, ILS Classification, Type of supported OP (for VOR/ILS/MLS, give declination)	ID	Frequency , Channel number	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Service volume radius from the GBAS reference point	Remarks
1	2	3	4	5	6	7	8
DVOR/DME (11°E/2020)	AKB	113,4 MHZ CH 81X	H24	501548.3N 0571054.8E	700 FT	Nil	Nil
ILS LOC 12 I/D/2	IAT	111,7 MHZ	H24	501349.3N 0571347.9E		Nil	Nil
GP 12 I/C/2		333,5 MHZ		501512.7N 0571126.0E			
DME12	IAT	CH 54X		501512.7N 0571126.0E	700 FT		
ILS LOC 30 I/D/2	ITU	110,5 MHZ	H24	501544.7N 0571049.0E		Nil	Nil
GP 30 I/C/2		329,6 MHZ		501413.5N 0571258.0E			
DME 30	ITU	CH 42X		501413.5N 0571258.0E	700 FT		

#### UATT AD 2.20 Local Aerodrome Regulations

##### 1. Airport regulations

Movement of aircraft about the aerodrome shall be carried out under its power or by towing with special vehicles.  
Taxiing and towing shall be carried out strictly along taxi center lines.  
Distributing of stands shall be carried out by shift deputy head of production and dispatcher service according to apron load and availability of vacant stands.

The number or assigned stand shall be called out using a loudspeaker unit of ITC escort to all personnel involved in maintenance.

The speed of taxiing shall be chosen by a pilot-in-command depending on the condition of taxiways and apron, presence of obstacles, aircraft weight, and horizontal visibility conditions.

The speed of taxiing in all cases must not exceed the speed established by the Flight Crew Operational Manual.

ATS air traffic controller is responsible for the taxiway route assignment, the pilot-in-command is responsible for the observance of taxiing rules and a person, guiding the taxiing on the segment assigned to him, is responsible for the safety of taxiing.

Operation hour: TWY A and TWY C shall be used during daytime; TWY B can be used during twenty-four hours.

Taxiing of ACFT with index 4 and 5 into RWY from TWY A and TWY C and out of RWY to TWY shall be carried out at reduced speed with the flight crew's increased caution and with the observance of safety interval between the landing gear and edges.

Aircraft Escort (Guidance) is Provided Regardless of Time of Day:

- When low visibility procedures are in effect
- In the absence of markings
- In complex taxiing patterns on maneuvering area
- Upon crew request

Aircraft turns on the runway are permitted if the aircraft index allows it, with the responsibility for turn safety resting with the aircraft commander.

If the aerodrome service imposes restrictions, turns are carried out only at runway widening areas (96 meters wide) upon the instruction of the "Aktobe Tower" controller.

**2. Taxiing/towing precautions with taking onto account visibility conditions, surface condition of runway, apron, stands and taxiways.**

Flight crew shall be notified about the surface condition of runway, apron, stands and taxiways by "Tower" air traffic controller according to work technique.

Taxiing onto the apron after runway vacation shall be carried out only after "Follow me" car.

Aircraft parking shall be carried out by the signals of marshaller.

Escorting by special vehicle from stands to holding position and from taxiways to stands shall be carried out when markings on the maneuvering area are invisible due to snow.

**3. Taxiing into stands under own engines power and by towing.**

Taxiing into stands 1-11 shall be carried out under own engines power.

Taxiing into stands 12-16 shall be carried out by towing.

**4. Taxiing out of stands under own engines power and by towing.**

Taxiing out of stands 3-11 shall be carried out under own engines power.

Taxiing out of stands 1,2,12-16 shall be carried out by towing.

**5. Parking area for small aircraft (General aviation)**

Stands 8-11 are designated for general aviation.

**6. De-icing areas, engine start-up areas, deviation areas.**

Not available

**7. The movement procedure of aircraft and vehicles in critical and sensitive zones of ILS during aerodrome operation on the minima I ICAO category.**

The boundary of the critical area of the radio beacon system has daytime and nighttime markings on the TWY B. On TWY A and TWY C only daytime markings are available. "Stop" and "ILS critical area" signs are set on the intersection of the airport roads and the critical area of the radio beacon system.

The intersection of critical zones of radio beacon landing system with aircraft, vehicles and other mobile facilities shall be carried out with the clearance of the "Tower" controller. The intersection of these areas with mentioned facilities during landing approach till landing is prohibited.

**8. Restrictions in the operation of large aircraft including restrictions on the use of its own power for taxiing.**

Aerodrome can be operated by aircraft with PCN/ACN ratio above or equal to 1. Weight and traffic intensity restriction of aircraft with non-equal PCN and ACN values are applied (for Boeing 747-400 with weight 376 655kg up to 10 sorties per day); (for A 321-100 with weight 81 100 kg up to 10 sorties per day); (for A 321-200 with weight 80 867 kg up to 10 sorties per day); (for A 330-200 with weight 216 476 kg up to 10 sorties per day).

One time (emergency) landing is allowed for aircraft with PCN/ACN ratio above or equal to 0,5. Taxiing of ACFT with index 4 and 5 into RWY from TWY A and TWY C and out of RWY to TWY shall be carried out at reduced speed with the flight crew's increased caution and with the observance of safety interval between the landing gear and edges.

**9. Taxiing of aircraft in the absence of visibility of marking lines on the maneuvering area.**

Runway, apron, stands and taxiways are not equipped with centerline lights

In case of invisibility of taxiway due to packed snow aircraft escorting shall be carried out only after the "Follow-me" car equipped with a UHF communication with the "Tower" dispatcher at a frequency of 120.9 and a two-way radio "ground-to-air" and "ground-ground" communication, flashing lights and the "Follow-me" panel and can be requested by the flight crew or by the shift deputy head of production and dispatcher service.

**UATT AD 2.21 Noise Abatement Procedures**

NIL

**UATT AD 2.22 Flight Procedures**

**1. Flight and ground movement procedures.**

Low Visibility Procedures (LVP) are effected when RVR is less than 550 m when manoeuvring area or part thereof is not visually monitored from the "Tower" control centre.

Low Visibility Procedures are initiated by the Air traffic Manager of Aktobe Control Centre. The status of LVP is passed to pilots by ATIS broadcast or by ATC.

Before the introduction of the procedures of limited visibility, the air traffic controller of "Tower" Control centre (Tower ATC) begins to keep a record of vehicles and persons who are currently on the manoeuvring area, and continues to this account during the period of these procedures to promote security activities in this area and restricts the movement of vehicles airport services on the apron and manoeuvring area, writes the data in the logbook.

Tower ATC, received information about the beginning of the (termination) procedures in low visibility conditions to inform adjacent control towers. The operation of LVP shall be reported by Tower ATC phrase : "LOW VISIBILITY PROCEDURES IN OPERATION".

Tower ATC restricts the movement of vehicles airport services on the apron and manoeuvring area during LVP procedures, produces control over the presence of obstacles on the runway and in the ILS critical area, on the reports of aircraft crew or reports of aerodrome service specialist, informs the flight crew about changes in the operational status of radio and lighting equipment.

Taxiing of departing aircraft shall be carried out after a follow-me car from stands to holding position. Taxiing to stand (apron) after RWY vacation shall be carried out after a follow-me car.

Upon receiving information that an aircraft or vehicle is lost or uncertain of its position on the manoeuvring area, Tower ATC takes action to ensure safety and to assist the aircraft or vehicle to determine its position.

If the Tower ATC cannot visually determine the aircraft RWY vacation, it requires the crew to report the

- skylarks and various waders - from 131 to 4593 FT;
- birds of prey - from 328 to 26246 FT;
- mayflies and roseate starlings - from 133 to 1509 FT;
- swallows - from 16 to 66 FT;
- gulls - from 328 to 1640 FT;
- sparrows - from 16 to 49 FT;
- owls - from 16 to 98 FT;
- pheasants - from 3 to 16 FT;

Migration of birds occurs around the clock.

Daily migration at the airfield and the greatest number of birds on the runway and in its vicinity were observed in the morning and evening hours. The species composition was predominantly represented by gulls. In the process of evening and night migration from feeding places (city dump, filtration fields of treatment facilities, Sazda and Aktobe reservoirs), gulls land on the surface of the runway warmed up during the day to rest.

During the daytime, during the period of mass departure of insects, we observed a cluster of rooks and crows near the strip.

Closer to the autumn, we observed migration of rooks in the morning hours from the urban area to the south-west, and in the evening hours from the steppe zone to the city.

#### **Daily migration of birds (time)**

From dawn till dusk.

#### **Direction**

Flights over terrain and to feeding grounds with crossing of takeoff and landing course. From NW to SE.

#### **Height**

Flights at heights of 32 to 492 FT. Mass flights of roosting birds at altitudes 164 to 1640 FT

#### **Information transmission**

Information about the ornithological situation is transmitted via the ATIS channel in English and Russian, and, if necessary, via the ATC Manager. If the ornithological situation in the aerodrome area becomes more complicated, additional specific information about the ornithological situation may be included into the ATIS summary for a short period of time

**UATT AD 2.24 Charts Related To An Aerodrome**

Name	Page
Aerodrome Chart ICAO	UATT AD 2.24.1-1
Aerodrome Ground Movement and Parking Chart ICAO	UATT AD 2.24.3-1
Aerodrome Obstacle Chart – ICAO – Type A	UATT AD 2.24.4-1
Standard Departure Chart Instrument (SID) RWY 12 ICAO	UATT AD 2.24.7-1-1
Standard Departure Chart Instrument (SID) RWY 30 ICAO	UATT AD 2.24.7-2-1
Standard Arrival Chart Instrument (STAR) RWY 12 ICAO	UATT AD 2.24.9-1-1
Standard Arrival Chart Instrument (STAR) RWY 30 ICAO	UATT AD 2.24.9-2-1
ATC Surveillance Minimum Altitude Chart ICAO	UATT AD 2.24.10-1
Instrument Approach Chart – ILS/DME RWY 12 ICAO	UATT AD 2.24.11-1-1
Instrument Approach Chart – ILS/DME RWY 30 ICAO	UATT AD 2.24.11-2-1
Instrument Approach Chart – VOR/DME RWY 12 ICAO	UATT AD 2.24.11-3-1
Instrument Approach Chart – VOR/DME RWY 30 ICAO	UATT AD 2.24.11-4-1
Instrument Approach Chart – LOC/DME RWY 30 ICAO	UATT AD 2.24.11-5-1
Visual Approach chart – ICAO	UATT AD 2.24.12-1
VFR Departure/Arrival Chart	UATT AD 2.24.14-1



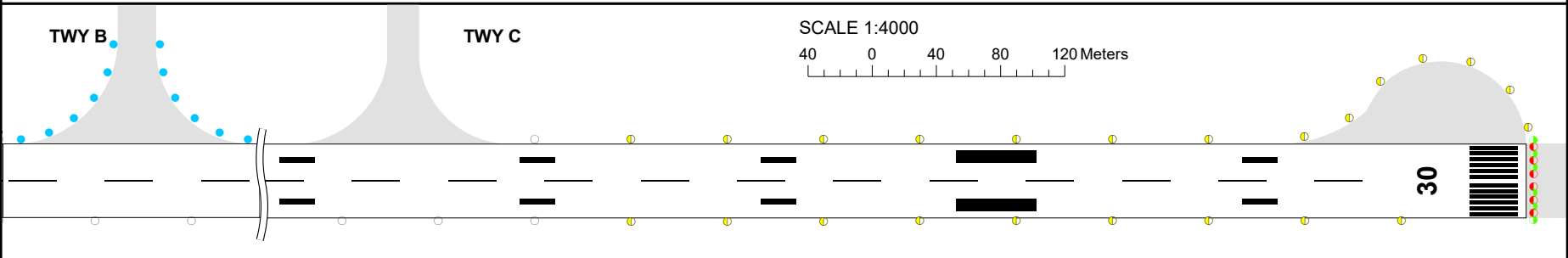
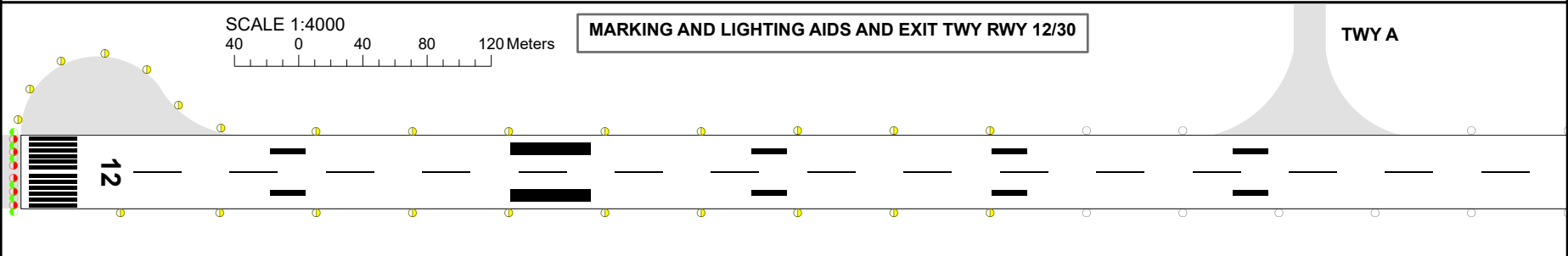
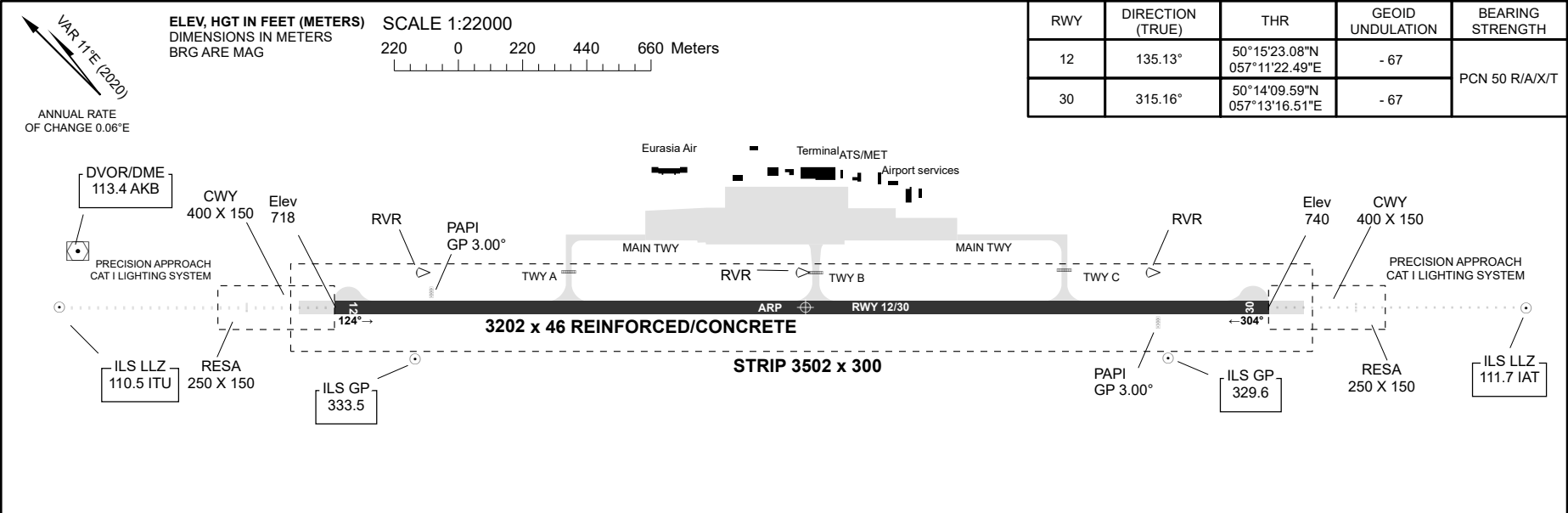
AERODROME  
CHART - ICAO

AD ELEV  
741FT (226m)

APR 501446N  
0571220E

TWR 120.9  
ATIS 126.0, 127.8

AKTOBE



CHANGE: NDB Withdrawn

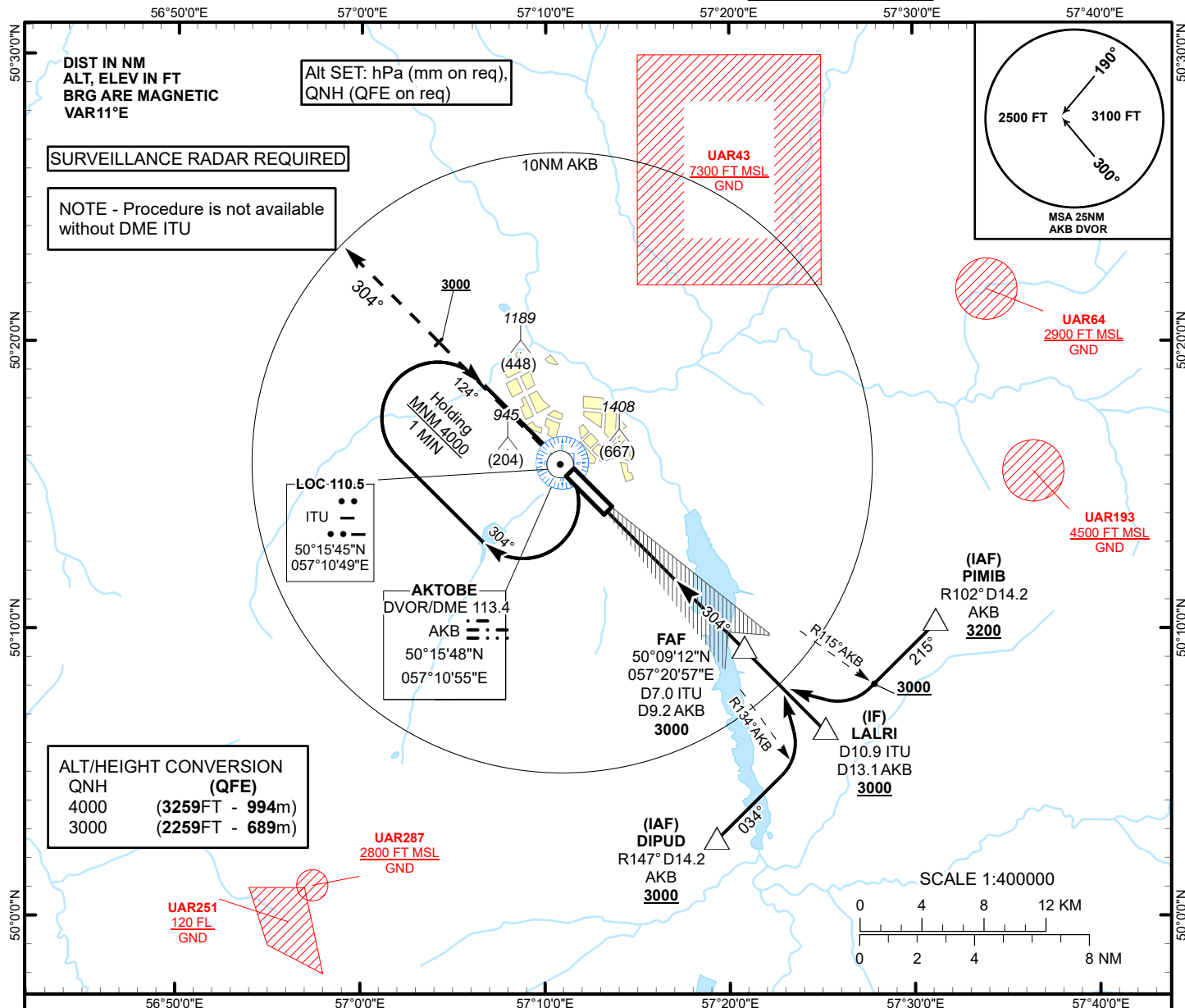
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INSTRUMENT  
APPROACH  
CHART - ICAO

AERODROME ELEV 741 FT  
HEIGHTS RELATED TO  
AD ELEV

AKTOBE TOWER 120.90  
AKTOBE ATIS (EN) 126.0  
AKTOBE ATIS (RU) 127.80

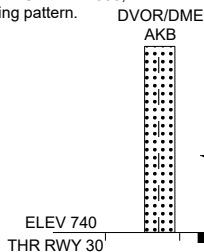
AKTOBE  
LOC/DME  
RWY 30



MISSED APPROACH

Climb on track 304° to 3000.  
After passing 2000 radar  
vectoring will be provided.  
RADIO FAILURE:  
In case of RCF climb on track  
304° to 2000 or above.  
Outbound to D5.2 AKB,  
turn LEFT to AKB. Climb to 4000,  
and join to holding pattern.

TRANSITION ALT  
10000



DVOR/DME  
AKB

MAPt  
D3.1 AKB  
D0.9 ITU

PDG 5.2%(3.0°)  
304°

FAF  
D7.0 ITU  
D9.2 AKB  
3000

IF  
LALRI  
D10.9 ITU  
D13.1 AKB  
3000

Aircraft Category

A

B

C

D

THR - DME ITU

1

2

3

4

5

6

7.0

Straight-in  
Approach  
OCA/H

LLZ (GP INOP)

1080(340)

1080(340)

1080(340)

1080(340)

DME AKB

3.2

4.2

5.2

6.2

7.2

8.2

9.2

ALTITUDE

1108

1427

1745

2064

2382

2700

3000

HEIGHT

(367)

(686)

(1004)

(1323)

(1641)

(1959)

(2259)

DME ITU ZERO RANGED TO THR RWY 30

Aerodrome  
Operating Minima  
DH ft x RVR(CMV)

LLZ (GP INOP)

GS

Kt

80

100

120

140

160

180

FAF-MAPt(6.1NM)

min:sec

4:35

3:40

3:03

2:37

2:17

2:02

Rate of descent

ft/min

420

530

630

740

840

950

AKTOBE (UATT)  
LOC/DME RWY30

AERONAUTICAL DATA TABULATION

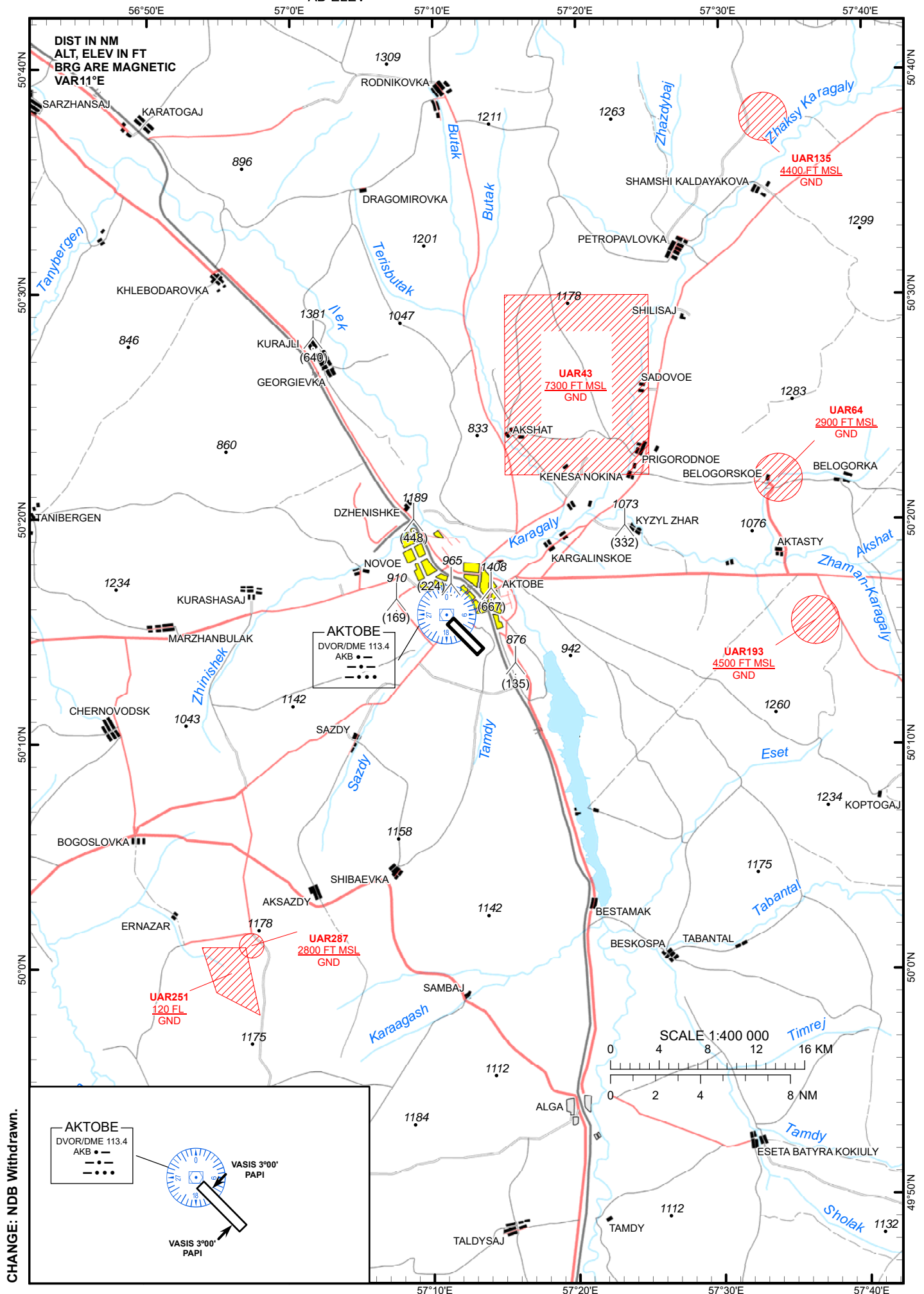
LOC/DME approach to RWY30 from DIPUD, PIMIB, LALRI	
Fix/point	Coordinates
AKB DVOR/DME	50° 15' 48.3"N 057° 10' 54.8"E
DIPUD R147°, D14.2 AKB (IAF)	50° 02' 38.2"N 057° 19' 14.0"E
PIMIB R102°, D14.2 AKB (IAF)	50° 10' 13.4"N 057° 31' 10.1"E
LALRI D10.9 ITU, D13.1 AKB (IF)	50° 06' 26.0"N 057° 25' 11.6"E
D7.0 ITU, D9.2 AKB (FAF)	50° 09' 11.6"N 057° 20' 56.8"E
THR RWY30	50° 14' 09.59"N 057° 13' 16.51"E
ITU LLZ	50° 15' 44.7"N 057° 10' 49.0"E

VISUAL  
APPROACH  
CHART - ICAO

AERODROME ELEV 741 FT  
HEIGHTS RELATED TO  
AD ELEV

AKTOBE TOWER 120.90  
AKTOBE ATIS (EN) 126.0  
AKTOBE ATIS (RU) 127.80

AKTOBE



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4	ATS unit call sign Language(s)	ALMATY TOWER EN ALMATY VYSHKA RU
5	Transition altitude	10000 FT
6	Hours of applicability	H24
7	Remarks	Nil

**UAAA AD 2.18 ATS Communication Facilities**

Service designation	Call sign	Frequency	SATVOICE number(s)	Logon address	Hours of operation	Remarks
1	2	3	4	5	6	7
APP	ALMATY APPROACH (EN) ALMATY PODKHOD (RU)	118.3 MHZ	Nil	Nil	H24	Nil
ATIS	ALMATY ATIS (EN) ALMATY ATIS (RU)	129,8 MHZ 135,1 MHZ	Nil	Nil	H24	Nil
RADAR	ALMATY RADAR (EN) ALMATY KRUG (RU)	126.8 MHZ	Nil	Nil	H24	Nil
SMC	ALMATY GROUND (EN) ALMATY RULENIE (RU)	121,7 MHZ	Nil	Nil	H24	Nil
TWR	ALMATY TOWER (EN) ALMATY VYSHKA (RU)	119,4 MHZ	Nil	Nil	H24	Nil
Production and dispatcher service	ALMATY TRANZIT (EN) ALMATY TRANZIT (RU)	131.900 MHZ	Nil	Nil	As AD	Nil
DELIVERY	ALMATY DELIVERY (EN) ALMATY DELIVERY (RU)	120.8 MHZ	Nil	Nil	H24	Nil

**UAAA AD 2.19 Radio Navigation And Landing Aids**

Type of aid, MAG VAR, ILS Classification, Type of supported OP (for VOR/ILS/MLS, give declination)	ID	Frequency, Channel number	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Service volume radius from the GBAS reference point	Remarks
1	2	3	4	5	6	7	8
DVOR/DME (5°E/2023)	ATA	116.4 MHZ CH 111X	H24	432229.4N 0770507.0E	2200 FT	Nil	Nil
ILS LOC 05R I/D/2	ILM	110.3 MHZ	H24	432159.6N 0770406.7E		Nil	Nil
GP 05R I/C/2		335 MHZ		432030.9N 0770117.7E			
DME 05R	ILM	CH 40X		432030.9N 0770117.7E	2200 FT		

Type of aid, MAG VAR, ILS Classification, Type of supported OP (for VOR/ILS/ MLS, give declination)	ID	Frequency, Channel number	Hours of operation	Position of transmitting antenna coordinates	Elevatio n of DME transmitt ing antenna	Service volume radius from the GBAS reference point	Rema rks
1	2	3	4	5	6	7	8
ILS LOC 23L III/E/2	IAL	108.1 MHZ	H24	432018.8N 0770043.4E		Nil	Nil
GP 23L III/T/2		334.7 MHZ		432138.5N 0770335.9E			
DME 23L	IAL	CH 18X		432138.5N 0770335.9E	2300 FT		
ILS LOC 05L I/D/4	IMA	109,1 MHZ	H24	432223.6N 0770438.8E		Nil	Nil
GP 05L I/C/4		331,4 MHZ		432059.1N 0770138.7E			
DME 05L	IMA	CH 28X		432059.1N 0770138.7E	2200 FT		
ILS LOC 23R III/E/4	IAA	111,3 MHZ	H24	432037.6N 0770104.8E		Nil	Nil
GP 23R III/T/4		332,3 MHZ		432210.7N 0770401.6E			
DME 23R	IAA	CH 50X		432210.7N 0770401.6E	2200 FT		

## UAAA AD 2.20 Local Aerodrome Regulations

### 1. Airport regulations

Aircraft movement along aerodrome is conducted under its own power and by towing vehicles. Taxiing and towing are carried out by established marking. Aircraft taxiing (towing) and take-off on a runway are conducted with the clearance of Almaty ATS unit.

At the apron stands it is allowed the start-up and testing of engines on idle modes upon request from "Almaty Taxiing" air traffic controller with regard to safety measures.

Start-up of engines at the stands 3-6 is prohibited. When there is out-of-use APU the start-up of one engine before towing to engine start-up place is conducted with the clearance of "Almaty Taxiing" air traffic controller.

Testing (run-up) of aircraft engines on modes exceeding the idle is carried out at the stand 69.

The crew can perform start-up of engines in the process of aircraft towing if this procedure is considered by flight operations manual of aircraft and agreed with the technical staff of the towing group.

Aircraft towing with the started engine (start-up during towing) at snowy, icy (slippery) apron is prohibited.

To replace aircraft wheels with a jack, only on hard surfaces (concrete, concrete slabs)

When deicing is needed flight crew notifies the "Almaty Taxiing" air traffic controller when requesting clearance for towing (start-up of engines). Deicing at the aircraft stands 1-6 is prohibited. Coordination of the deicing process is conducted by "Almaty Transit" at the frequency of 131.900 MHz. Deicing is performed:

- at the stands with asphalt-concrete surfacing;

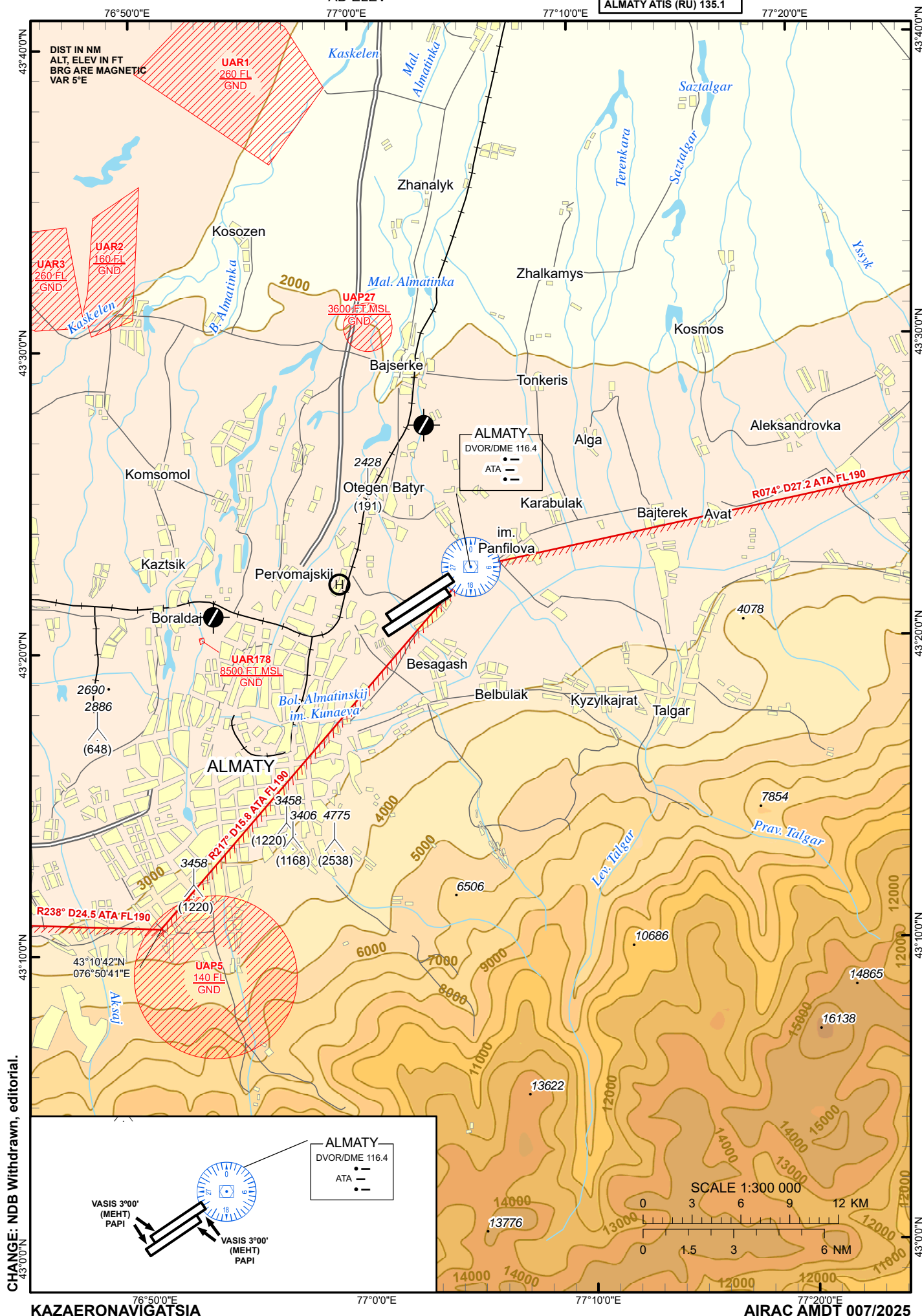


VISUAL  
APPROACH  
CHART - ICAO

AERODROME ELEV 2238 FT  
HEIGHTS RELATED TO  
AD ELEV

ALMATY APPROACH 118.3  
ALMATY RADAR 126.8  
ALMATY TOWER 119.4  
ALMATY ATIS (EN) 129.8  
ALMATY ATIS (RU) 135.1

ALMATY



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## UATG AD 2.18 ATS Communication Facilities

Service designation	Call sign	Frequency	SATVOICE number(s)	Logon address	Hours of operation	Remarks
1	2	3	4	5	6	7
ATIS	ATYRAU ATIS (EN) ATYRAU ATIS (RU)	127,4 MHZ 126,6 MHZ	Nil	Nil	H24	EN, RU
TWR	ATYRAU TOWER (EN) ATYRAU VYSHKA (RU)	118,1 MHZ	Nil	Nil	H24	Nil

## UATG AD 2.19 Radio Navigation And Landing Aids

Type of aid, MAG VAR, ILS Classification, Type of supported OP (for VOR/ILS/MLS, give declination)	ID	Frequency , Channel number	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Service volume radius from the GBAS reference point	Remarks
1	2	3	4	5	6	7	8
ILS LOC 14 I/D/4	ITY	109,9 MHZ	H24	470619.6N 0515003.2E		Nil	Nil
GP 14 I/T/4		333,8 MHZ		470750.7N 0514839.2E			
DME 14	ITY	CH 36X		470750.7N 0514839.2E	-100 FT		
ILS LOC 32 I/D/2	IAY	108.3 MHZ	H24	470820.0N 0514820.9E		Nil	Nil
GP 32 I/C/2		334.1 MHZ		470645.8N 0514934.2E			
DME 32	IAY	CH 20X		470645.8N 0514934.2E	-100 FT		
DVOR/DME (9°E/2013)	ATR	112,3 MHZ CH 70X	H24	470838.2N 0514805.4E	0 FT	Nil	Nil

## UATG AD 2.20 Local Aerodrome Regulations

## 1. Taxiing

ACFT movement at the aerodrome is conducted by towing and ACFT's thrust. Taxiing and towing are carried out by established marking.

Starting of engine, towing and taxiing are conducted by ATC controller clearance of "Atyrau-Tower".

ACFT stand number and docking procedure are established by shift foreman of CCR (central control room) "Atyrau" based on actual situation: availability of restriction, parking prohibitions and aerodrome part consisting of manoeuvring area and ramp.

Nose-in part of MAIN TWY D (from TWY A to end of main TWY D, east of RWY 32 THR) is used only for ACFT stand in absence of ACFT stand on apron (mass arrivals, apron repairs, etc.). ACFT park at a distance that ensures the safe usage of TWY A for taxiing, take-off and landing.

In exceptional cases, by the decision of shift foreman of CCR with mandatory report to "Atyrau" ATC flight supervisor, it is allowed to use part of MAIN TWY D (BTN TWY A and TWY B at a distance providing safe usage TWY A, B for taxiing, take-off and landing) for parking if there is no possibility ACFT towing, for the purpose of self-taxiing in/out and long-term parking. In these cases, issued NOTAM and helicopter CREW

make final decision to take flight operations from (to) MAIN TWY D.

ACFT tracking (leading) is conducted regardless of the time of day:

- during commissioning of low visibility conditions procedures;
- during inability of marking;
- during complicated procedures of movement on the maneuvering area;
- during taxiing IN/OUT to MAIN TWY D in case of using as ACFT STAND;
- on request of ACFT crew.

U-turns on RWY are cleared if ACFT index allowed, CREW responsible for safety. When restrictions are imposed by AD service, U-turns are available only at RWY wedding by clearance of "Atyrau-TWR" ATC controller.

"Atyrau TWR" ATC controller may expedite taxiing to line up and RWY vacating after landing (except LVP procedures duration) to reduce RWY occupancy time. CREW immediately informs ATC controller if it is not possible to complete required instructions.

U-turns for aircraft type AN-12, A320, A321, all modifications of B-737, B-757, B-767, IL-76 and aircraft with heavier takeoff mass are prohibited. U-turns are allowed only on turning bays of RWY 14/32.

## 2. Takeoff and landing

Before starting the flight the CREW must listen ATIS information, before starting (towing) establish a connection with "Atyrau-Tower" ATC controller at a frequency of 118.1 MHz, inform ATIS current information index, number of ACFT stand and get ATC clearance for take-off.

Depending on the air or ground situation it is allowed to take-off not from the runway THR or from TWY A, B by agreement between "Atyrau Tower" ATC controller and the crew. ACFT take-off starts from RWY point where rolling take-off coincide required actual TKOFF mass of ACFT and TKOFF conditions. Final decision to take-off is made by ACFT CREW.

ACFT TKOFF and landing with tailwind component are permitted for accelerating AFCT flow movement by CREW or ATS unit's request. CREW is responsible for TKOFF and landing decision.

If flight safety, runway configuration, meteorological conditions and existing approach procedures or air traffic conditions do not prefer another direction, ATS unit shall designate RWY taking into account the performance of the ACFT landing or take-off against the wind. The departure of the aircraft with a heading opposite to the operational runway direction is PROHIBITED.

ACFT CREW TKOFF immediately after TKOFF clearance. If the ACFT crew is not ready to execute immediate TKOFF, it is necessary to inform "Atyrau-TWR" controller before taxiing to line up and about an expected delay time.

Pilot in-command shall make the final decision on the performance for take-off or landing in weather conditions that do not correspond to the minima set by the airlines for take-off and landing. In this case, ATC clearance for take-off or landing shall not be considered as compelling action and ACFT CREW is responsible for taken decision and for result of landing or take-off.

## 3. The flights of helicopters

For engine start-up, take-off and landing of helicopters, only the RW and part of the main taxiway D are used from the intersection with TW A to the end of MTWY D towards RWY 14, day time, in compliance with the established intervals between aircraft taking off and landing and distances to obstacles, engine start-up, take-off and landing of helicopters on stands 1–3 are permitted during the execution of special priority flights (OVP) and medical evacuation missions.

It is allowed, in agreement with the Atyrau-Tower controller, to start helicopter engines on apron stands of Atyrau aerodrome

Air taxiing of helicopters with a skid landing gear from the parking area to the take-off location and back is carried out according to markings along the route assigned by the Atyrau-Tower controller, observing the

established distances to obstacles under the responsibility of the helicopter commander.

Helicopters, in agreement with the Atyrau-Tower controller, are allowed to move by air during the day while maintaining the established distances to obstacles from stand 15-17A to take-off point from MTWY-D and back.

Running takeoff of helicopters and rolling landing, takeoff and landing of helicopters in accordance with IFR (Special VFR during nighttime and twilight) are carried out only from / on the RWY.

In the presence of meteorological phenomena or industrial smoke on a part of the runway, impairing visibility to values below the minimum, the helicopter PIC is allowed to take off and land, in agreement with the air traffic controller, in that part of the runway where the meteorological conditions correspond to its minimum (start / middle / end).

#### **4. The procedures in low visibility conditions**

The procedures in low visibility conditions are entered at RVR less than 550 m., when not all maneuvering area or part of it is visually controlled from the control center "Atyrau- Tower".

RWY 14 is used for ICAO CAT 2 landing.

ATC controller with following phrase "Low visibility procedures in progress" reports the beginning of LVP procedures.

During ICAO CAT 2 precision approach pilot is guaranteed that the signals of localizer and glide slope beacons are protected from interference on final landing approach.

The movement of vehicles on the apron and the maneuvering area is restricted.

Obstacles on the RWY and zones of radio beacon landing system are monitored by ATC controller based on the CREW's or aerodrome service specialist's reports.

ATC immediately informs CREW about changing the operational status of radio and lighting equipment.

The pilot (crew) is given three values of visibility on the runway, measured in touchdown zone and in the middle of the runway during landing approach in ICAO Category 2.

If there are consecutive departures and there is no possibility for holding position to different taxiways, aircraft are waiting in line for holding position at ACFT stand.

Only one ACFT can be on the runway.

The clearance for landing is issued in advance before approaching ACFT reaches a distance of 2.2 NM (4 km).

When pointing for landing approach by radar vectoring the ACFT is moved to final approach leg no closer than 11 NM (20 km) from the runway threshold.

Minimum interval between consecutive departing ACFT in low visibility conditions:

- departing ACFT should fly over the LOC antenna before the next departing ACFT start of take-off, but no less of intervals established according to wake turbulence.

The minimum intervals between arriving and departing ACFT:

- departing ACFT should take off before approaching to land ACFT reaches a distance of 6.5 NM (12 km) on final approach leg. (in condition of ICAO category 2)

Minimum interval on final approach between arriving ACFT (in the conditions ICAO Category 2):

- no less 14 NM (25 km)

The crew does not report about the vacating runway as long as the ACFT precede further the marked holding point (STOP line lights).

Taxiing to the apron after vacating of the runway is allowed only by the follow-me-car. The parking of the ACFT on the stand is carried out by the instruction of a person who responsible for meeting the ACFT.

The ACFT taxiing for takeoff from ACFT stand to holding position is accompanied by follow-me-car. At holding position the ACFT does not taxi further marked holding point (STOP line lights) until the clearance of ATS air traffic controller will be received and STOP line lights will be turned off.

When working centerline lights of taxiway B, E it is allowed to taxi via centerline lights without follow-me-car.

ACFT taxiing is carried out on the minimum engine thrust.

During period of LVP operation it is prohibited the takeoff not from runway THR, from taxiway A, B, turns on the runway, ACFT TKOFF with back course of the runway working direction.

## **5. Training and practice flights, check-test and check flights (flyover)**

IFR training and check flights are performed according to established procedures for instrumental takeoff and landing approach. After takeoff, crew maintains received entering approach procedure instructions from air traffic controller.

For training flights, control flights (flying around) of aircraft according to the VFR, an aerodrome flight circle has been established: RWY 32 - left circle, RWY 14 - right circle, circle flight altitude is assigned by the air traffic controller "Atyrau Tower".

Depending on intensity of flights and restrictions imposed, Air traffic manager have the right to restrict the number of training ACFT, to suspend or prohibit the training flights.

Flight inspections of Radio Engineering Flight Ensuring facilities and communications are carried out in accordance with the requirements of the Rules for radio engineering flight ensuring and aviation radio communication of civil aviation.

Training flights in uncontrolled airspace within the horizontal limits of the Atyrau TMA are permitted up to 2,000 feet. If necessary, flights at an altitude of over 2000 FT, shall be performed in coordination with the "Atyrau-Tower" air traffic controller only. Training flights in the horizontal limits of the TMA up to an altitude of 2000 FT are performed according to the QNH of the area, and for flights at an altitude of 2000 FT and higher on the QNH of the aerodrome.

For training (overflight) by helicopters on hovering, as agreed with the flight supervisor, in the absence taking off and approaching ACFT on the runway, it can be used the site located north-east of the aerodrome check point at the place of widening rapid exit taxiway-D, in the daytime, under minimum meteorological conditions for VFR (SVFR) flights. With observance of established intervals and distances to obstacles. Take-off (landing) from (to) pad in sector azimuth 350°-150° (150°-350°) is prohibited. Movement (hover taxiing) to (from) the pad, hovering training (height) and take-off and landing from (to) the pad shall be performed with clearance of "Atyrau-Tower" controller. Helicopter pilot responsible for safety during movement (taxiing) to (from) the pad, hovering training (hovering), takeoff and landing from (to) the pad.

## **6. Helicopter pad**

## **7. Emergency landing procedure**

In case of on-board emergency during takeoff, pilot-in-command determines the necessary maneuver for purpose of safety.

## **8. Fuel draining**

Fuel dumping is conducted only in emergencies that prevent a decrease of landing mass of ACFT by running out of fuel.

If the CREW needs a radio-silent during the fuel dumping, the duration is agreed between the crew and ATC controller

Fuel dumping is conducted by the designated route of ATS unit depending on air situation on height agreed with CREW in area bounded by waypoints UDEBA-OLAPU-BASPU-UDEBA (not lower 9000 FT).

In an emergency, the crew shall have the right to fuel dumping out of the designated route.

ACFT separation when fuel dumping is carried out in accordance with the Procedures for Air Navigation Services "Air Traffic Management" (PANS-ATM) doc 4444 ATM/501.

AERODROME OBSTACLE CHART - ICAO  
TYPE A (OPERATING LIMITATIONS)

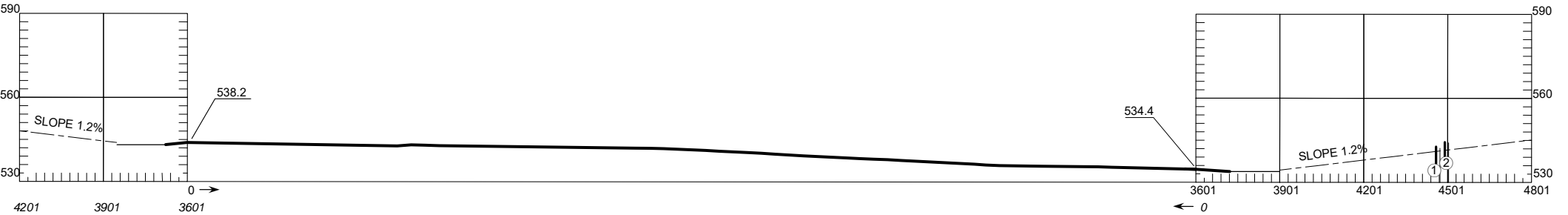
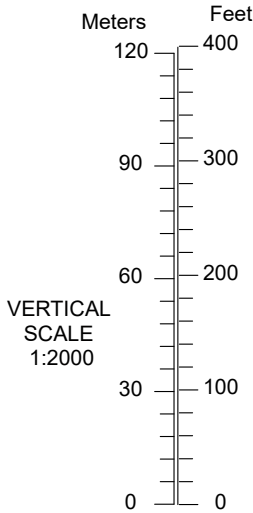
KARAGANDA

DIMENSIONS AND ELEVATIONS IN METERS  
MAGNETIC VARIATION 8° E (2013)

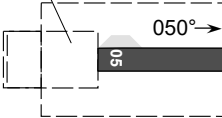
RWY 05/23

DICLARED DISTANCES			
RWY 05		RWY 23	
3601	TAKE-OFF RUN AVAILABLE	3601	
3901	TAKE-OFF DISTANCE AVAILABLE	3851	
3601	ACCELERATE STOP DISTANCE AVAILABLE	3601	
3601	LANDING DISTANCE AVAILABLE	3601	

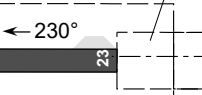
ORDER OF ACCURACY					
Nº	LAT	LON	H	Horizontal, m	Vertical, m
①	49°41'04.18"N	073°22'01.43"E	541.82	0.02	0.03
②	49°41'04.67"N	073°22'02.72"E	543.76		



CWY  
250 X 150



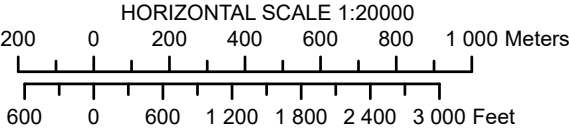
CWY  
300 X 150



3601 x 60 REINFORCED/CONCRETE

541.82 ① ② 543.76

LEGEND	
BUILDING	■
ANTENNA	⊙
IDENTIFICATION NUMBER	①



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**UAOO AD 2**

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**UAOO AD 2.1 Aerodrome Location Indicator And Name**

UAOO - KYZYLORDA

**UAOO AD 2.2 Aerodrome Geographical And Administrative Data**

1	ARP coordinates and site at AD	444223N 0653527E At the centre of RWY
2	Direction and distance from (city)	155°, 8.9 NM of Kyzylorda center
3	Elevation/Reference temperature	433 FT/26° C
4	Geoid undulation at AD ELEV PSN	-125 FT
5	MAG VAR/Annual Change	7° E ( 2022 ) / 0.04°
6	AD Administration, address, telephone, telefax, telex, AFS	Post: Authority of Airport JSC "Korkyt Ata Airport", Kyzylorda, Tasbuget village, tract Zhanadarya, building 126 120008, Republic of Kazakhstan  Phone: +7 (7242) 262365 Fax: +7 (7242) 261861 AFS: UA00APDU Email: airportkzo2000@mail.ru
7	Types of traffic permitted (IFR/VFR)	IFR-VFR
8	Remarks	Nil

**UAOO AD 2.3 Operational Hours**

1	AD Operator	See NOTAM Phone: +7 (7242) 262365 (ext. 542) Fax: +7 (7242) 262515
2	Customs and immigration	HO Phone: +7 (7242) 215465
3	Health and sanitation	As AD
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	See NOTAM Phone: +7 (7242) 270734
6	MET Briefing Office	H24 Phone: +7 (7242) 261798
7	ATS	See NOTAM
8	Fuelling	As AD Phone: +7 (7242) 262365 (ext.542)
9	Handling	As AD Phone: +7 (7242) 262365 (ext. 542)
10	Security	H24 Phone: +7 (7242) 262365 (ext. 539)

11	De-icing	As AD Phone: +7 (7242) 262365 (ext. 542)
12	Remarks	Nil

#### UAOO AD 2.4 Handling Services And Facilities

1	Cargo-handling facilities	Handling up to 5 tonnes weight
2	Fuel/oil types	TS-1 / Nil
3	Fuelling facilities/capacity	3 Trucks (10.7m³)
4	De-icing facilities	De-icing equipment «Sterling»
5	Hangar space for visiting aircraft	Not available
6	Repair facilities for visiting aircraft	Nil
7	Remarks	Nil

#### UAOO AD 2.5 Passenger Facilities

1	Hotels	City hotel
2	Restaurants	AVBL
3	Transportation	Buses, taxis
4	Medical facilities	Aid post at Airport Terminal, ambulance service, hospitals in Kyzylorda
5	Bank and Post Office	AVBL in the city Kyzylorda
6	Tourist Office	AVBL in the city Kyzylorda
7	Remarks	Nil

#### UAOO AD 2.6 Rescue And Fire Fighting Services

1	AD category for fire fighting	CAT A6
2	Rescue equipment	1 emergency rescue machine 3 fire engines with a total volume fire extinguishing composition 22 500 kg, including frother 1 500 kg.
3	Capability for removal of disabled aircraft	There is a possibility of aircraft evacuation up to 50 tons: <ul style="list-style-type: none"> <li>• devices for lifting the aircraft by the nose of the fuselage;</li> <li>• devices for towing emergency aircraft;</li> <li>• truck crane with a lifting capacity of 50-65 tons;</li> <li>• a truck tractor and a semi-trailer (trawl) with a carrying capacity of up to 50 tons.</li> </ul> Phone: +7 (7242) 262515 Phone: +7 (7242) 262365 (ext. 536) Email: airportkzo2000@mail.ru
4	Remarks	The category of aerodrome for fire fighting equipment can be increased upon prior request. Out of regulations - CAT A3.

**UAOO AD 2.7 Seasonal Availability - Clearing**

1	Types of clearing equipment	KAMAZ - 3 plunger brush cars, 1 tractor equipped with a brush and blade
2	Clearance priorities	1. RWY 2. TWY 3. Stands
3	Remarks	(Seasonal availability: All seasons, caution advised in winter during snow conditions) Type of anti-icing reagent: "Green Way SFU" brand A (granular)

**UAOO AD 2.8 Aprons, Taxiways And Check Locations/Positions Data**

1	Apron surface and strength	STANDS		SURFACE	STRENGTH
		1-3		CONC+ASPH	PCN 67/F/C/X/T
		4, 5, 6, 8		CONC+ASPH	PCN 60/F/C/W/T
		7, 9, 10		CONC+ASPH	PCN 59/F/C/W/T
		AN-2, MI-8		CONC+ASPH	PCN 5/F/C/Y/T
2	Taxiway width, surface and strength	TWY	WIDTH (M)	SURFACE	STRENGTH
		A	24	CONC+ASPH	PCN 67/F/C/X/T
		B	24	CONC+ASPH	PCN 53/F/C/W/T
3	Altimeter checkpoint location and elevation	Nil			
4	VOR checkpoints	Nil			
5	INS checkpoints	Nil			
6	Remarks	Nil			

**UAOO AD 2.9 Surface Movement Guidance And Control System And Markings**

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Guidance sign board at entrance of RWYs, guidance sign designating taxiways and apron
2	RWY and TWY markings and LGT	Markings of threshold, touchdown zones, aiming point, undershoot area, turning line, turning line edge, centre line, RWY edges, RWY designation. Edge lights of RWY, TWY A and TWY B
3	Stop bars	Nil
4	Other runway protection measures	Nil
5	Remarks	RWY 05/23 ACFT with max TKOF mass more than 30000kg shall carry out turnings at RWY turn pad only

**UAOO AD 2.10 Aerodrome Obstacles**

NIL

## UAOO AD 2.11 Meteorological Information Provided

1	Associated MET Office	Meteorological service Kyzylorda Phone: +7 (7242) 261798
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation: Periods of validity	Meteorological service Kyzylorda, 2 9 HR (0009, 0312, 0615, 0918, 1221, 1524, 1803, 2106)
4	Trend forecast Interval of issuance	TREND 30 min
5	Briefing/consultation provided	Personal consultation (Russian)
6	Flight documentation/languages used	TAF, METAR, SPECI, SIGMET, GAMET, AIRMET English
7	Charts and other information AVBL for briefing or consultation	S, U85, U70, U50, U40, U30, U25, U20, prognostic charts of wind and temperature at flight levels (FL), max wind, T, prognostic charts P85, P70, P50, P40, P30, P25, P20, SWH, SWM of WAFC, SWM+SWH, SWL of Kazakhstan;
8	Supplementary equipment AVBL for providing information	Doppler weather radar (DWR-C)
9	ATS units provided with information	Briefing, TWR
10	Additional information	Nil

## UAOO AD 2.12 Runway Physical Characteristics

Designation s RWY NR	TRUE BRG	Dimensions of RWY (M)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY	Slope of RWY-SWY
1	2	3	4	5	6	7
05	61,32°	2700 X 45	53/F/C/W/T CONC+ASPH	444201.89N 0653432.79E - -123 FT	THR 424.5 FT	0.2%
23	241,34°	2700 X 45	53/F/C/W/T CONC+ASPH	444243.85N 0653620.40E - -123.4 FT	THR 433.1 FT	-0.2%

SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	RESA dimensions (M)	Location and description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
Nil	250 X 150	3000 X 300	100 X 150	Nil	AVBL	Nil
Nil	250 X 150	3000 X 300	100 X 150	Nil	Nil	Nil

## UAOO AD 2.13 Declared Distances

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
05	2700	2950	2700	2700	Nil
23	2700	2950	2700	2700	Nil

## UAOO AD 2.14 Approach And Runway Lighting

RWY Designator	APCH LGT type, LEN, INTST	THR LGT colour, WBAR	VASIS, (MEHT), PAPI	TDZ, LGT LEN	RWY Centre Line LGT Length, spacing, colour, INTST	RWY edge LGT LEN, spacing, colour, INTST	RWY End LGT colour, WBAR	SWY LGT LEN, colour	Remarks
1	2	3	4	5	6	7	8	9	10
05	CAT I (HIALS) 900 M LIH	GRN Nil	PAPI LEFT/3° 16,2 M	Nil	Nil	2700m, 0-2100m white, spacing 60m, last 600m yellow LIH	RED Nil	Nil	Nil
23	(HIALS) 900 M LIH	GRN Nil	PAPI LEFT/3° 16,3 M	Nil	Nil	2700m, 0-2100m white, spacing 60m, last 600m yellow LIH	RED Nil	Nil	Nil

## UAOO AD 2.15 Other Lighting, Secondary Power Supply

1	ABN/IBN location, characteristics and hours of operation	ABN: Nil IBN: Nil
2	LDI location and LGT Anemometer location and LGT	LDI : Nil Anemometer: 350m from RWY05 to ARP, 350m from RWY23 to ARP
3	TWY edge and centre line lighting	TWY A EDGE: BLU TWY B EDGE: BLU
4	Secondary power supply/switch-over time	AVBL, 1 sec
5	Remarks	Nil

## UAOO AD 2.16 Helicopter Landing Area

NIL

## UAOO AD 2.17 ATS Airspace

1	Designation and lateral limits	KYZYLORDA CTR 445812N 0655209E - 444136N 0660448E - 442430N 0652105E - 444102N 0650816E - 445812N 0655209E
2	Vertical limits	2200 FT ALT / GND

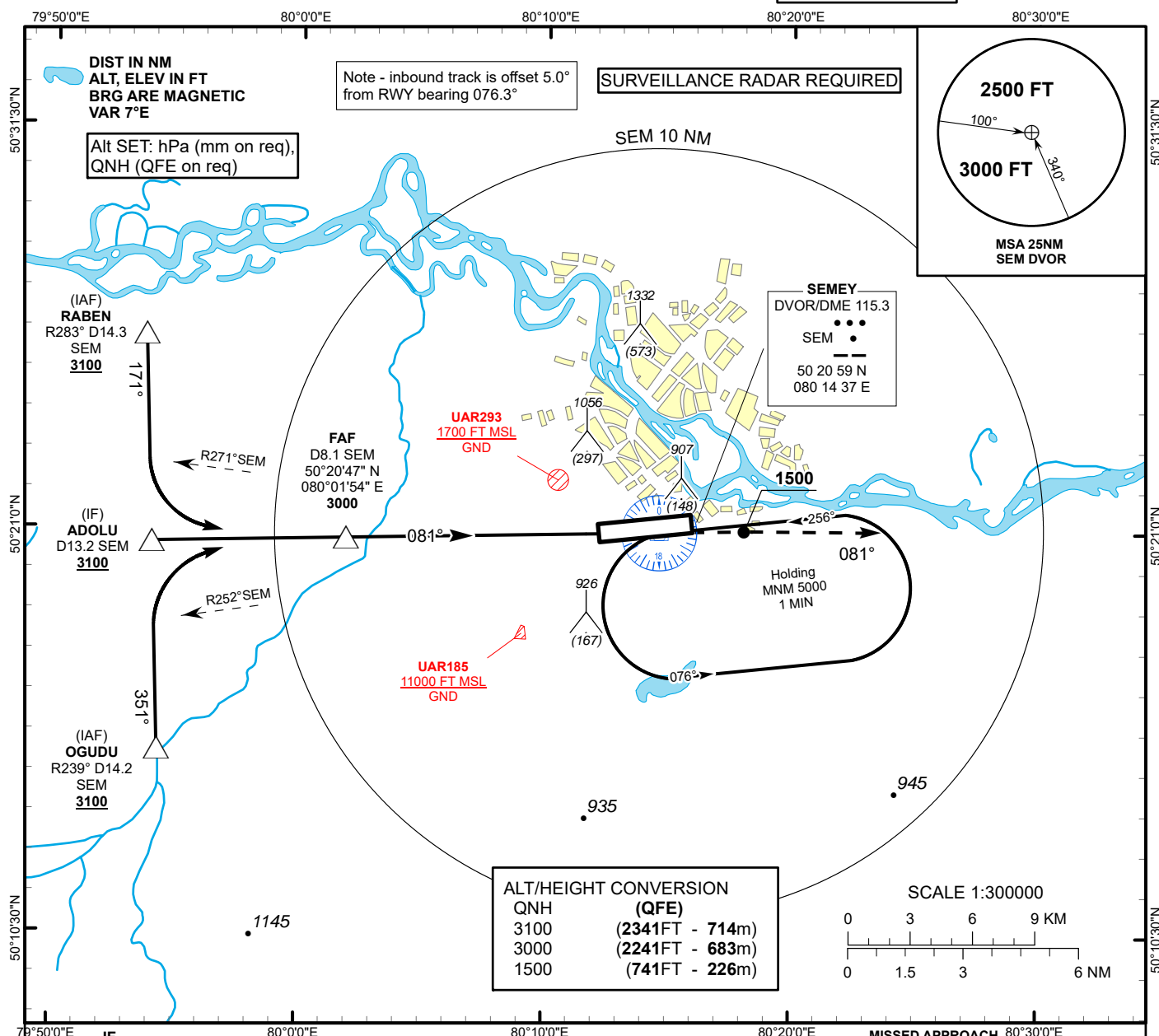
3	Airspace classification	C
4	ATS unit call sign Language(s)	KYZYLORDA TOWER EN KYZYLORDA VYSHKA RU
5	Transition altitude	10000 FT
6	Hours of applicability	See NOTAM
7	Remarks	Nil

## UAOO AD 2.18 ATS Communication Facilities

Service designation	Call sign	Frequency	SATVOICE number(s)	Logon address	Hours of operation	Remarks
1	2	3	4	5	6	7
TWR	KYZYLORDA TOWER (EN) KYZYLORDA VYSHKA (RU)	120,9 MHZ	Nil	Nil	See NOTAM	Nil
Production and dispatcher service	KYZYLORDA TRANZIT (EN) KYZYLORDA TRANZIT (RU)	131.175 MHZ	Nil	Nil	As AD	Nil
ATIS	KYZYLORDA ATIS (EN) KYZYLORDA ATIS (RU)	134,9 MHZ 122.9 MHZ	Nil	Nil	As AD	ATIS information is being updated during AD working hours. Outside AD working hours ATIS information is not updated.

## UAOO AD 2.19 Radio Navigation And Landing Aids

Type of aid, MAG VAR, ILS Classification, Type of supported OP (for VOR/ILS/MLS, give declination)	ID	Frequency, Channel number	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Service volume radius from the GBAS reference point	Remarks
1	2	3	4	5	6	7	8
ILS LOC 05 I/D/2	IKZ	111,1 MHZ	H24	444258.5N 0653658.0E		Nil	Nil
GP 05 I/C/2		331,7 MHZ		444202.0N 0653447.4E			
DME 05	IKZ	CH 48X		444202.0N 0653447.4E	400 FT		
DVOR/DME (7°E/2022)	KZO	112.7 MHZ CH 74X	H24	444144.9N 0653349.3E	500 FT	Nil	Nil

INSTRUMENT  
APPROACH  
CHART - ICAOAERODROME ELEV 759 FT  
HEIGHTS RELATED TO  
AD ELEVSEMEY TOWER 128.0  
SEMEY ATIS (EN) 118.5  
SEMEY ATIS (RU) 122.4SEMEY  
VOR/DME Y  
RWY 08IF  
ADOLU  
D13.2 SEM  
3100FAF  
D8.1 SEM  
3000TRANSITION ALT  
10000

MISSED APPROACH  
Climb on track 081° to 3100 or above.  
After passing 1500 radar vectoring  
will be provided. Then as directed.  
RADIO FAILURE: In case of RCF climb  
on track 081° to 2000 or above. Outbound  
to D6.0 NM SEM, turn LEFT to SEM. Climb  
to 5000, and join to holding pattern.

MAPt  
D1.9 SEMDVOR/DME  
SEMELEV 759  
THR RWY 08

Aircraft Category		A	B	C	D	DIST to THR	NM	6.9	5.0	4.0	3.0	2.0	1.0
Straight-in Approach OCA/H						DME SEM	NM	8.1	6.2	5.2	4.2	3.2	2.2
	VOR/DME	1120(360)		1120(360)		ALTITUDE	FT	3000	2400	2081	1763	1445	1127
						HEIGHT	FT	(2241)	(1641)	(1322)	(1004)	(686)	(367)

Aerodrome Operating Minima MDH ft x RVR(CMV)	VOR/DME				GS	Kt	80	100	120	140	160	180
					FAF-MAPt (6.2)	min:sec	4:35	3:47	3:09	2:42	2:22	2:06
					Desc.Rate(5.2%)	ft/min	420	530	640	740	850	950

KAZAERONAVIGATSIYA

AIRAC AMDT 007/2025

CHANGE: IAF, IF ALT.

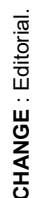
SEMEY  
VOR/DME Y

AERONAUTICAL DATA TABULATION

VOR approach to RWY08 from RABEN, ADOLU, OGUDU	
Fix/point	Coordinates
(FAF) D8.1 SEM	50° 20' 46.9"N 080° 01' 54.3"E
ADOLU (IF) D13.2 SEM	50° 20' 38.9"N 079° 54' 01.0"E
RABEN (IAF) R283° D14.3 SEM	50° 26' 02.3"N 079° 53' 43.3"E
OGUDU (IAF) R239° D14.2 SEM	50° 15' 15.5"N 079° 54' 18.6"E
DVOR/DME SEM	50° 20' 58.7"N 080° 14' 37.5"E
THR RWY 08	50° 21' 00.82"N 080° 12' 43.63"E
Final approach descent angle is 3°	

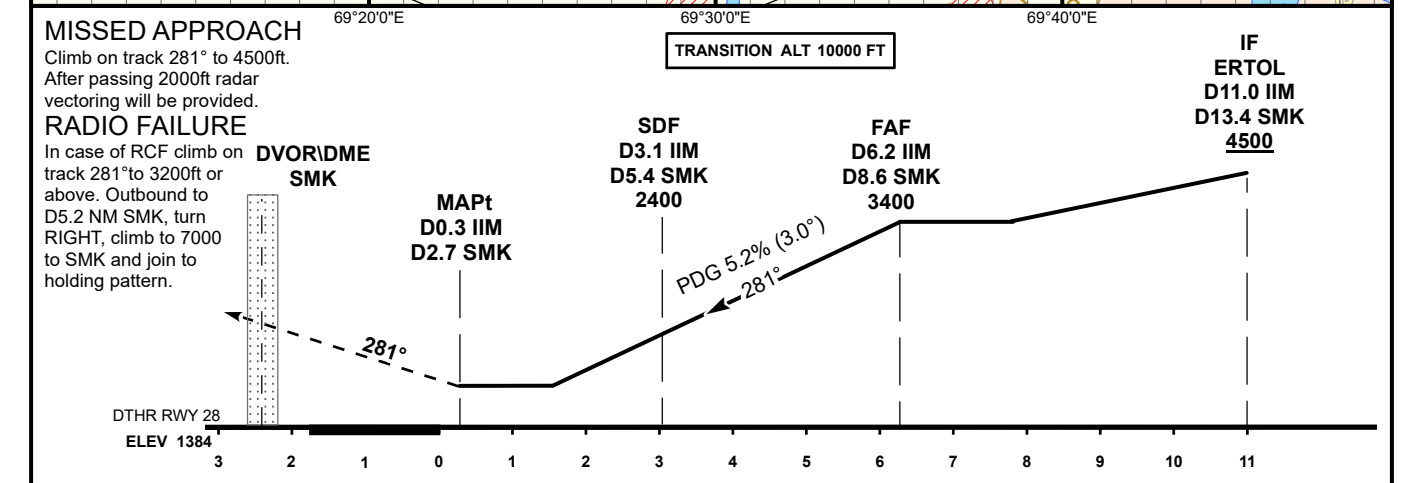


**SHYMKENT**



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SHYMKENT  
LOC/DME  
RWY 28

[illegible]

DME IIM ZERO RANGED TO THR RWY 28

Aerodrome Operating Minima MDH ft x RVR (CMV)	LLZ (GP INOP)															
						GS	Kt	80	100	120	140	160	180			
						Desc.Rate( 5.2%)	ft/min	420	530	630	740	840	950			
						FAF-MAPT(5.9NM)	min:sec	4:30	3:36	3:00	2:34	2:15	2:00			

SHYMKENT  
LOC/DME

AERONAUTICAL DATA TABULATION

LOC/DME approach to RWY28 from ARMUS, ERTOL	
Fix/point	Coordinates
(SDF) D3.1 IIM, D5.4 SMK	42° 20' 49.0"N 069° 33' 32.6"E
(FAF) D6.2 IIM, D8.6 SMK	42° 19' 55.4"N 069° 37' 38.4"E
ERTOL (IF) D11.1 IIM, D13.4 SMK	42° 18' 33.5"N 069° 43' 53.6"E
ARMUS (IAF) R079°, D14.5 SMK	42° 23' 44.6"N 069° 45' 55.9"E
SMK DVOR/DME	42° 22' 20.4"N 069° 26' 30.6"E
IIM LOC	42° 22' 13.7"N 069° 27' 01.5"E
DTHR RWY 28	42° 21' 40.62"N 069° 29' 34.86"E
Final approach descent angle is 3°	

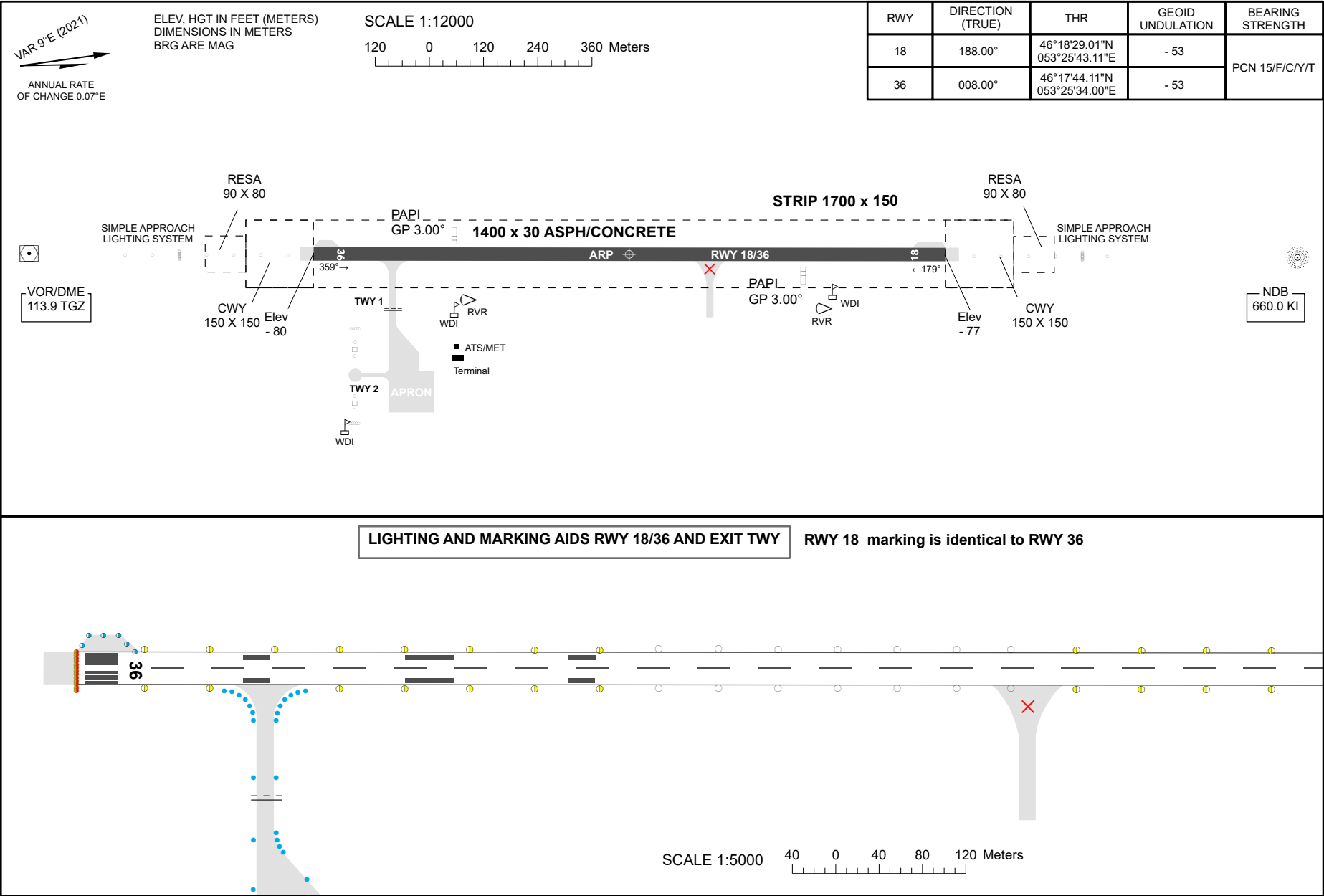
AERODROME  
CHART - ICAO

AD ELEV  
-78 FT

461807N  
0532539E

TWR 119.2

TENGIZ

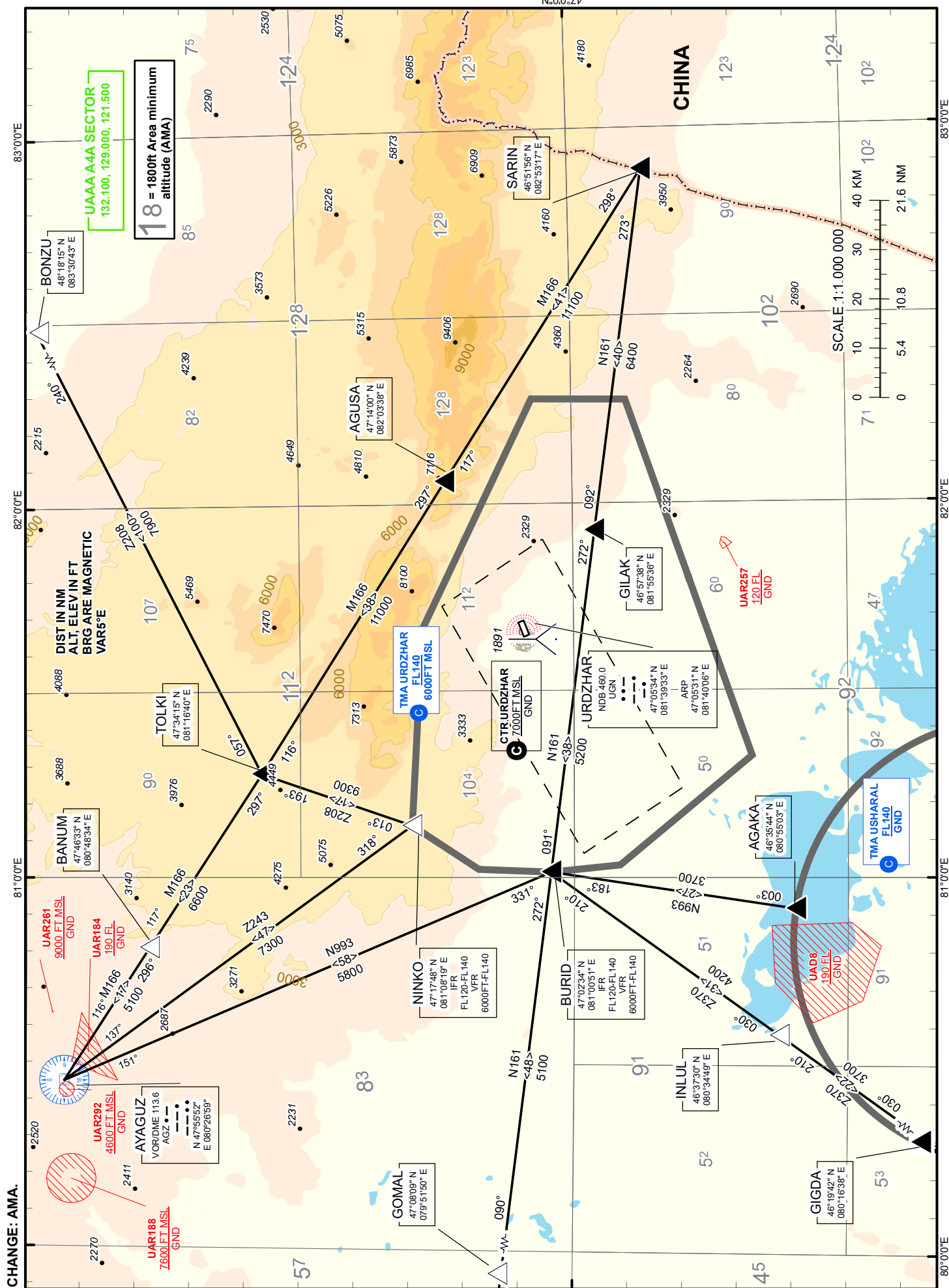


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AREA  
CHART - ICAO

TMA URDZCHAR

URDZCHAR TOWER 123.0



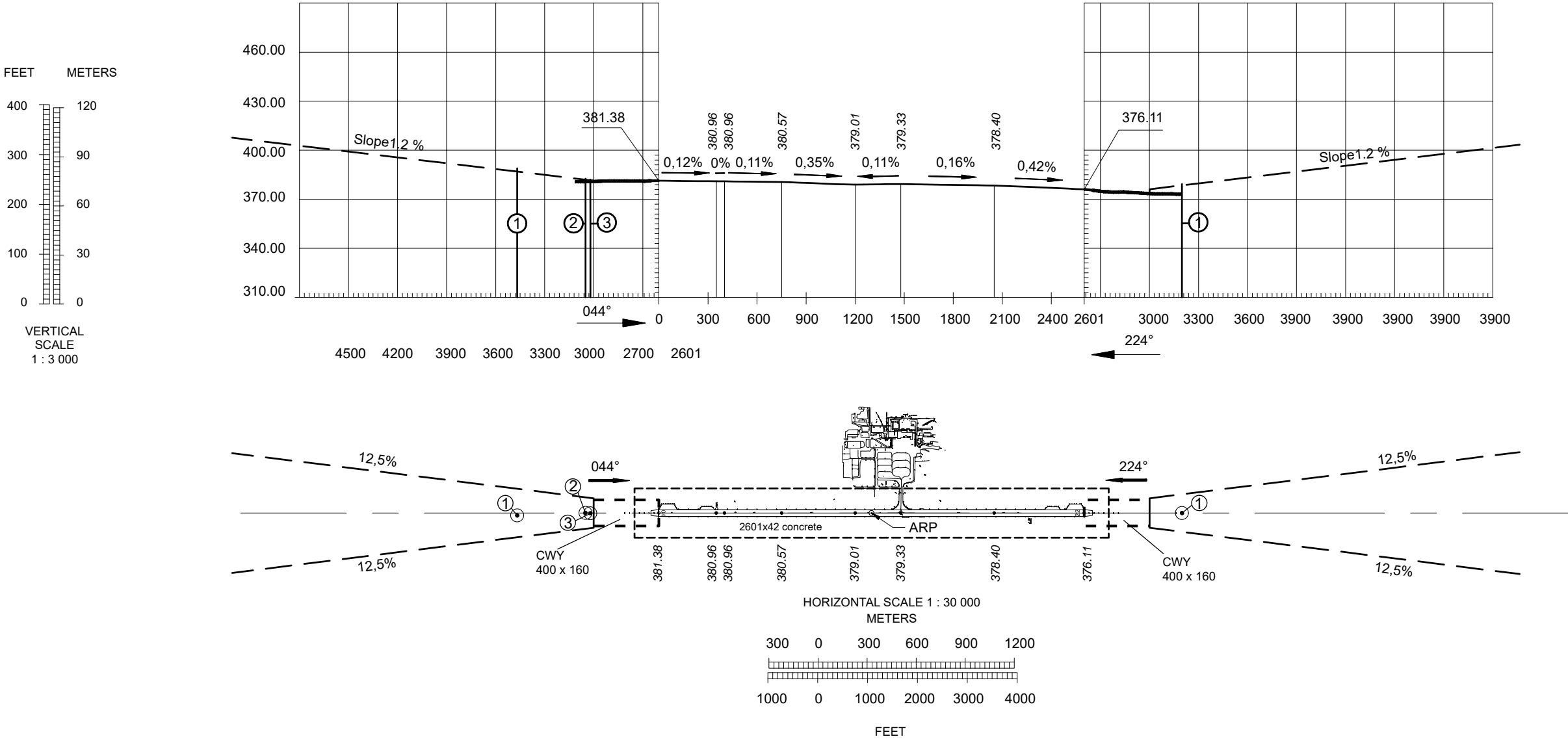
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DIMENSIONS AND ELEVATIONS IN METERS      MAG VAR 8°E (2013)

ORDER OF ACCURACY					
№	LAT	LON	H	Horizontal,m	Vertical,m
1	47°41'48.74" N	067°42'56.91" E	389.9	0.053	0.049
2	47°41'57.51" N	067°43'12.17" E	382.5	0.053	0.049
3	47°41'58.06" N	067°43'13.34" E	382.3	0.053	0.049

RWY 04/22 DECLARED DISTANCES		
RWY 04		RWY 22
2601	TAKE – OFF RUN AVAILABLE	2601
3001	TAKE – OFF DISTANCE AVAILABLE	3001
2601	ACCELERATE – STOP DISTANCE AVAILABLE	2601
2601	LANDING DISTANCE AVAILABLE	2601



LEGEND		
	Plan	Profile
Antenna, tower, power line metal	⑥	⑥

ORDER OF ACCURACY					
№	LAT	LON	H	Horizontal,m	Vertical,m
1	47°43'10.68" N	067°45'29.69" E	381.8	0.053	0.049

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