
REPUBLIC OF KAZAKHSTAN

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AIRAC AMDT 007/2026
Effective Date: **09 Jul 2026**

1. Amendment content:

GEN

GEN 0.2 Information updated
GEN 0.4 Information updated
GEN 2.4 Location indicator UAUR (Arkalyk) has been added.
GEN 2.5 SATPAY (DVOR/DME) has been added.
GEN 2.7 Data for UAUR (Arkalyk) have been added.

ENR

ENR 2.1 ARKALYK TMA added.
ENR 2.2 Remarks updated.
ENR 3.2 Remarks on ATS routes updated.
ENR 4.1 ARKALYK DVOR/DME radio navigation aid added; elevation of SATPAY DVOR/DME updated.
ENR 4.4 Waypoints AGLAL, EKNIZ, INTER, LASMU, LUMEZ, TIMZO, TOLAZ and UGMON added; remarks updated.
ENR 6 Changes in aeronautical charts

AD

AD 0.6 Arkalyk aerodrome (UAUR) added.
AD 1.3 Arkalyk aerodrome (UAUR) added.
AD 1.5 Aerodrome certification data for Shymkent (UAIL) and Balkhash (UAAH) updated.
UATT AD 2.15, 2.23 Information updated
UAAA AD 2.2, 2.6, 2.23 Information updated
UACC AD 2.7 Information updated
UAUR Aerodrome added.
UASI AD 2.2 Aerodrome elevation updated; AD 2.18 Information updated; AD 2.19 DME antenna elevation updated.
UAIL AD 2.8 PCN value updated.

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:

Nil

NOTAM series A:

A2375/26

NOTAM series C:

C2399/26, C2585/26

NOTAM incorporated to this AMDT will be cancelled by NOTAMC on the 24 JULY 2026

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	
002/2017	13-Apr-2017	25-May-2017	
003/2017	08-Jun-2017	20-Jul-2017	
004/2017	03-Aug-2017	14-Sep-2017	
005/2017	28-Sep-2017	09-Nov-2017	
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002/2020	12-Mar-2020	23-Apr-2020	
003/2020	04-Jun-2020	16-Jul-2020	
004/2020	16-Jul-2020	10-Sep-2020	
005/2020	08-Oct-2020	03-Dec-2020	
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002/2021	08-Apr-2021	20-May-2021	
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005/2024	27-Jun-2024	08-Aug-2024	
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007/2025	29-May-2025	10-Jul-2025	
008/2025	26-Jun-2025	07-Aug-2025	
009/2025	24-Jul-2025	04-Sep-2025	
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GEN 1 NATIONAL REGULATIONS AND REQUIREMENTS

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GEN-1.2 - 1	16 MAY 2024	GEN-1.4 - 1	25 FEB 2021	GEN-1.7 - 5	12 AUG 2021
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GEN-1.2 - 4	20 FEB 2025	GEN-1.5 - 2	07 NOV 2019	GEN-1.7 - 8	12 JUN 2025
GEN-1.2 - 5	20 FEB 2025	GEN-1.6 - 1	07 NOV 2019	GEN-1.7 - 9	14 MAY 2026
GEN-1.2 - 6	11 JUL 2024	GEN-1.6 - 2	07 NOV 2019	GEN-1.7 - 10	14 MAY 2026
GEN-1.2 - 7	11 JUL 2024	GEN-1.7 - 1	12 AUG 2021		
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GEN-2.1 - 3	16 MAY 2024	GEN-2.5 - 3	09 JUL 2026	GEN-2.7 - 15	09 JUL 2026
GEN-2.1 - 4	25 FEB 2021	GEN-2.5 - 4	23 FEB 2023	GEN-2.7 - 16	09 JUL 2026
GEN-2.2 - 1	04 SEP 2025	GEN-2.6 - 1	21 JUN 2018	GEN-2.7 - 17	09 JUL 2026
GEN-2.2 - 2	04 SEP 2025	GEN-2.6 - 2	30 MAR 2017	GEN-2.7 - 18	09 JUL 2026
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GEN-2.2 - 5	04 SEP 2025	GEN-2.7 - 3	09 JUL 2026	GEN-2.7 - 21	09 JUL 2026
GEN-2.2 - 6	04 SEP 2025	GEN-2.7 - 4	09 JUL 2026	GEN-2.7 - 22	09 JUL 2026
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GEN-2.3 - 1	16 JUL 2020	GEN-2.7 - 7	09 JUL 2026	GEN-2.7 - 25	09 JUL 2026
GEN-2.3 - 2	30 MAR 2017	GEN-2.7 - 8	09 JUL 2026	GEN-2.7 - 26	09 JUL 2026
GEN-2.3 - 3	16 JUL 2020	GEN-2.7 - 9	09 JUL 2026	GEN-2.7 - 27	09 JUL 2026
GEN-2.3 - 4	16 AUG 2018	GEN-2.7 - 10	09 JUL 2026	GEN-2.7 - 28	09 JUL 2026
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GEN 3 SERVICES

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GEN-3.2 - 2	07 NOV 2019	GEN-3.5 - 2	08 AUG 2024	GEN-3.6 - 2	01 DEC 2022
GEN-3.2 - 3	15 JUN 2023	GEN-3.5 - 3	08 AUG 2024	GEN-3.6 - 3	01 DEC 2022
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GEN-3.3 - 1	16 MAY 2024	GEN-3.5 - 5	30 OCT 2025		
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GEN 4 CHARGES FOR AERODROMES/HELIPORTS AND AIR NAVIGATION SERVICES

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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
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ENR-2.1 - 5	11 JUN 2026	ENR-2.1 - 16	11 JUN 2026	ENR-2.2 - 5	09 JUL 2026
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ENR 3.2.3 - 9	09 JUL 2026	ENR 3.2.4 - 12	09 JUL 2026	ENR-3.4 - 1	19 MAY 2022
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ENR-5.1 - 1	11 JUN 2026	ENR-5.1 - 13	11 JUN 2026	ENR-5.2 - 1	07 NOV 2019
ENR-5.1 - 2	11 JUN 2026	ENR-5.1 - 14	11 JUN 2026	ENR-5.2 - 2	07 NOV 2019
ENR-5.1 - 3	11 JUN 2026	ENR-5.1 - 15	11 JUN 2026	ENR-5.3 - 1	14 MAY 2026
ENR-5.1 - 4	11 JUN 2026	ENR-5.1 - 16	11 JUN 2026	ENR-5.3 - 2	30 MAR 2017
ENR-5.1 - 5	11 JUN 2026	ENR-5.1 - 17	11 JUN 2026	ENR-5.4 - 1	08 AUG 2024
ENR-5.1 - 6	11 JUN 2026	ENR-5.1 - 18	11 JUN 2026	ENR-5.4 - 2	30 MAR 2017
ENR-5.1 - 7	11 JUN 2026	ENR-5.1 - 19	11 JUN 2026	ENR-5.5 - 1	30 MAR 2017
ENR-5.1 - 8	11 JUN 2026	ENR-5.1 - 20	11 JUN 2026	ENR-5.5 - 2	30 MAR 2017
ENR-5.1 - 9	11 JUN 2026	ENR-5.1 - 21	11 JUN 2026	ENR-5.6 - 1	10 SEP 2020
ENR-5.1 - 10	11 JUN 2026	ENR-5.1 - 22	11 JUN 2026	ENR-5.6 - 2	10 SEP 2020
ENR-5.1 - 11	11 JUN 2026	ENR-5.1 - 23	11 JUN 2026		
ENR-5.1 - 12	11 JUN 2026	ENR-5.1 - 24	11 JUN 2026		

ENR 6 EN-ROUTE CHART

ENR-6 - 1	15 JUL 2021	ENR-6.1 - 1	09 JUL 2026
ENR-6 - 2	30 MAR 2017	ENR-6.1 - 2	09 JUL 2026

PART 3 - AERODROMES (AD)

AD 0

AD-0.1 - 1	23 MAY 2019	AD-0.6 - 1	09 JUL 2026	AD-0.6 - 11	09 JUL 2026
AD-0.1 - 2	30 MAR 2017	AD-0.6 - 2	09 JUL 2026	AD-0.6 - 12	09 JUL 2026
AD-0.2 - 1	23 MAY 2019	AD-0.6 - 3	09 JUL 2026	AD-0.6 - 13	09 JUL 2026
AD-0.2 - 2	30 MAR 2017	AD-0.6 - 4	09 JUL 2026	AD-0.6 - 14	09 JUL 2026
AD-0.3 - 1	23 MAY 2019	AD-0.6 - 5	09 JUL 2026	AD-0.6 - 15	09 JUL 2026
AD-0.3 - 2	30 MAR 2017	AD-0.6 - 6	09 JUL 2026	AD-0.6 - 16	09 JUL 2026
AD-0.4 - 1	23 MAY 2019	AD-0.6 - 7	09 JUL 2026	AD-0.6 - 17	09 JUL 2026
AD-0.4 - 2	30 MAR 2017	AD-0.6 - 8	09 JUL 2026	AD-0.6 - 18	09 JUL 2026
AD-0.5 - 1	23 MAY 2019	AD-0.6 - 9	09 JUL 2026		
AD-0.5 - 2	30 MAR 2017	AD-0.6 - 10	09 JUL 2026		

AD 1 AERODROMES/HELIPORTS - INTRODUCTION

AD-1.1 - 1	19 FEB 2026	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	09 JUL 2026
AD-1.2 - 2	31 OCT 2024	AD-1.2 - 8	31 OCT 2024	AD-1.5 - 2	16 APR 2026
AD-1.2 - 3	04 NOV 2021	AD-1.3 - 1	09 JUL 2026		
AD-1.2 - 4	31 OCT 2024	AD-1.3 - 2	09 JUL 2026		

AD 2 AERODROMES

AD-2-UATE - 1	16 APR 2026	UATE AD 2.24.7-5 - 2	23 JAN 2025	UATE AD 2.24.11-8 - 1	15 JUN 2023
AD-2-UATE - 2	22 JAN 2026	UATE AD 2.24.9-1 - 1	05 SEP 2024	UATE AD 2.24.11-8 - 2	23 FEB 2023
AD-2-UATE - 3	19 MAR 2026	UATE AD 2.24.9-1 - 2	23 FEB 2023	UATE AD 2.24.11-9 - 1	05 SEP 2024
AD-2-UATE - 4	19 MAR 2026	UATE AD 2.24.9-2 - 1	05 SEP 2024	UATE AD 2.24.11-9 - 2	08 AUG 2024
AD-2-UATE - 5	19 MAR 2026	UATE AD 2.24.9-2 - 2	23 FEB 2023	UATE AD 2.24.11-10 - 1	05 SEP 2024
AD-2-UATE - 6	16 APR 2026	UATE AD 2.24.9-3 - 1	05 SEP 2024	UATE AD 2.24.11-10 - 2	08 AUG 2024
AD-2-UATE - 7	16 APR 2026	UATE AD 2.24.9-3 - 2	23 FEB 2023	UATE AD 2.24.12 - 1	23 FEB 2023
AD-2-UATE - 8	16 APR 2026	UATE AD 2.24.9-4 - 1	05 SEP 2024	UATE AD 2.24.12 - 2	30 MAR 2017
AD-2-UATE - 9	16 APR 2026	UATE AD 2.24.9-4 - 2	23 FEB 2023	UATE AD 2.24.14 - 1	23 FEB 2023
AD-2-UATE - 10	16 APR 2026	UATE AD 2.24.9-5 - 1	05 SEP 2024	UATE AD 2.24.14 - 2	15 JUL 2021
AD-2-UATE - 11	16 APR 2026	UATE AD 2.24.9-5 - 2	11 JUL 2024	AD-2-UATT - 1	08 AUG 2024
AD-2-UATE - 12	16 APR 2026	UATE AD 2.24.9-6 - 1	05 SEP 2024	AD-2-UATT - 2	26 JAN 2023
AD-2-UATE - 13	16 APR 2026	UATE AD 2.24.9-6 - 2	16 MAY 2024	AD-2-UATT - 3	16 MAY 2024
AD-2-UATE - 14	16 APR 2026	UATE AD 2.24.10 - 1	05 SEP 2024	AD-2-UATT - 4	19 MAR 2026
UATE AD 2.24.1 - 1	19 MAR 2026	UATE AD 2.24.10 - 2	30 MAR 2017	AD-2-UATT - 5	09 JUL 2026
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UATE AD 2.24.7-2 - 1	05 SEP 2024	UATE AD 2.24.11-4 - 2	15 JUN 2023	UATT AD 2.24.1 - 1	19 FEB 2026
UATE AD 2.24.7-2 - 2	23 FEB 2023	UATE AD 2.24.11-5 - 1	02 NOV 2023	UATT AD 2.24.1 - 2	30 MAR 2017
UATE AD 2.24.7-3 - 1	05 SEP 2024	UATE AD 2.24.11-5 - 2	15 JUN 2023	UATT AD 2.24.3 - 1	19 FEB 2026
UATE AD 2.24.7-3 - 2	23 FEB 2023	UATE AD 2.24.11-6 - 1	02 NOV 2023	UATT AD 2.24.3 - 2	12 AUG 2021
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UATE AD 2.24.7-5 - 1	05 SEP 2024	UATE AD 2.24.11-7 - 2	23 FEB 2023	UATT AD 2.24.7-1 - 1	19 FEB 2026

Page	Date	Page	Date	Page	Date
UATT AD 2.24.7-1 - 2	20 MAY 2021	UAAA AD 2.24.7-5 - 1	11 JUN 2026	UAAA AD 2.24.11-5 - 2	15 JUN 2023
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UATT AD 2.24.9-1 - 2	25 FEB 2021	UAAA AD 2.24.7-7 - 1	11 JUN 2026	UAAA AD 2.24.11-7 - 2	15 JUN 2023
UATT AD 2.24.9-2 - 1	19 FEB 2026	UAAA AD 2.24.7-7 - 2	11 JUL 2024	UAAA AD 2.24.11-8 - 1	11 JUN 2026
UATT AD 2.24.9-2 - 2	25 FEB 2021	UAAA AD 2.24.7-8 - 1	11 JUN 2026	UAAA AD 2.24.11-8 - 2	15 JUN 2023
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UATT AD 2.24.10 - 2	30 MAR 2017	UAAA AD 2.24.7-9 - 1	11 JUN 2026	UAAA AD 2.24.11-9 - 2	15 JUN 2023
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AD-2-UAAA - 3	16 APR 2026	UAAA AD 2.24.9-4 - 2	30 MAR 2017	AD-2-UACC - 3	09 JUL 2026
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AD-2-UAAA - 15	16 APR 2026	UAAA AD 2.24.9-10 - 2	11 JUN 2026	AD-2-UACC - 15	11 JUN 2026
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AD-2-UAAA - 17	11 JUN 2026	UAAA AD 2.24.9-11 - 2	11 JUN 2026	UACC AD 2.24.1 - 1	22 JAN 2026
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AD-2-UAAA - 20	11 JUN 2026	UAAA AD 2.24.9-13 - 1	11 JUN 2026	UACC AD 2.24.3 - 2	05 SEP 2024
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AD-2-UAAA - 22	16 APR 2026	UAAA AD 2.24.9-14 - 1	11 JUN 2026	UACC AD 2.24.4 - 2	23 FEB 2023
AD-2-UAAA - 23	09 JUL 2026	UAAA AD 2.24.9-14 - 2	11 JUN 2026	UACC AD 2.24.5-1 - 1	30 JAN 2020
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AD-2-UAAA - 26	11 JUN 2026	UAAA AD 2.24.9-16 - 1	11 JUN 2026	UACC AD 2.24.5-2 - 2	30 MAR 2017
UAAA AD 2.24.1 - 1	16 APR 2026	UAAA AD 2.24.9-16 - 2	11 JUN 2026	UACC AD 2.24.6 - 1	09 JUL 2026
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UAAA AD 2.24.5-2 - 2	30 MAR 2017	UAAA AD 2.24.10 - 1	11 JUN 2026	UACC AD 2.24.7-5 - 2	12 JUN 2025
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UAAA AD 2.24.7-1 - 1	11 JUN 2026	UAAA AD 2.24.11-1 - 2	16 MAY 2024	UACC AD 2.24.7-7 - 1	09 JUL 2026
UAAA AD 2.24.7-1 - 2	15 JUN 2023	UAAA AD 2.24.11-2 - 1	11 JUN 2026	UACC AD 2.24.7-7 - 2	12 JUN 2025
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UAAA AD 2.24.7-2 - 2	15 JUN 2023	UAAA AD 2.24.11-3 - 1	11 JUN 2026	UACC AD 2.24.7-8 - 2	07 NOV 2019
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UAAA AD 2.24.7-4 - 1	11 JUN 2026	UAAA AD 2.24.11-4 - 2	15 JUN 2023	UACC AD 2.24.9-2 - 1	09 JUL 2026
UAAA AD 2.24.7-4 - 2	15 JUN 2023	UAAA AD 2.24.11-5 - 1	11 JUN 2026	UACC AD 2.24.9-2 - 2	04 SEP 2025

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UACC AD 2.24.9-3 - 1	09 JUL 2026	UATG AD 2.24.3 - 2	22 JAN 2026	UAAH AD 2.24.9-1 - 1	15 JUN 2023
UACC AD 2.24.9-3 - 2	23 APR 2020	UATG AD 2.24.4 - 1	15 JUN 2023	UAAH AD 2.24.9-1 - 2	15 JUN 2023
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UARR AD 2.24.11-2 - 2	07 NOV 2019	UAAL AD 2.24.9-3 - 1	16 MAY 2024	UASK AD 2.24.9-8 - 2	11 JUL 2024
UARR AD 2.24.11-3 - 1	14 MAY 2026	UAAL AD 2.24.9-3 - 2	11 JUL 2024	UASK AD 2.24.9-9 - 1	31 OCT 2024
UARR AD 2.24.11-3 - 2	07 NOV 2019	UAAL AD 2.24.9-4 - 1	16 MAY 2024	UASK AD 2.24.9-9 - 2	11 JUL 2024
UARR AD 2.24.11-4 - 1	14 MAY 2026	UAAL AD 2.24.9-4 - 2	11 JUL 2024	UASK AD 2.24.9-10 - 1	31 OCT 2024
UARR AD 2.24.11-4 - 2	07 NOV 2019	UAAL AD 2.24.11-1 - 1	12 JUN 2025	UASK AD 2.24.9-10 - 2	11 JUL 2024
UARR AD 2.24.11-5 - 1	14 MAY 2026	UAAL AD 2.24.11-1 - 2	23 FEB 2023	UASK AD 2.24.9-11 - 1	31 OCT 2024
UARR AD 2.24.11-5 - 2	04 NOV 2021	UAAL AD 2.24.11-2 - 1	12 JUN 2025	UASK AD 2.24.9-11 - 2	11 JUL 2024
UARR AD 2.24.12 - 1	11 JUL 2024	UAAL AD 2.24.11-2 - 2	23 FEB 2023	UASK AD 2.24.10 - 1	31 OCT 2024
UARR AD 2.24.12 - 2	30 MAR 2017	UAAL AD 2.24.11-3 - 1	12 JUN 2025	UASK AD 2.24.10 - 2	30 MAR 2017
UARR AD 2.24.14 - 1	20 APR 2023	UAAL AD 2.24.11-3 - 2	23 FEB 2023	UASK AD 2.24.11-1 - 1	14 MAY 2026
UARR AD 2.24.14 - 2	15 JUL 2021	UAAL AD 2.24.11-4 - 1	12 JUN 2025	UASK AD 2.24.11-1 - 2	02 DEC 2021
AD-2-UASU - 1	14 MAY 2026	UAAL AD 2.24.11-4 - 2	23 FEB 2023	UASK AD 2.24.11-2 - 1	14 MAY 2026
AD-2-UASU - 2	14 MAY 2026	UAAL AD 2.24.11-5 - 1	14 MAY 2026	UASK AD 2.24.11-2 - 2	31 OCT 2024
AD-2-UASU - 3	16 MAY 2024	UAAL AD 2.24.11-5 - 2	11 JUL 2024	UASK AD 2.24.11-3 - 1	14 MAY 2026
AD-2-UASU - 4	27 NOV 2025	UAAL AD 2.24.11-6 - 1	14 MAY 2026	UASK AD 2.24.11-3 - 2	04 SEP 2025
AD-2-UASU - 5	14 MAY 2026	UAAL AD 2.24.11-6 - 2	11 JUL 2024	UASK AD 2.24.11-4 - 1	14 MAY 2026
AD-2-UASU - 6	16 MAY 2024	UAAL AD 2.24.12 - 1	23 FEB 2023	UASK AD 2.24.11-4 - 2	04 SEP 2025
AD-2-UASU - 7	14 MAY 2026	UAAL AD 2.24.12 - 2	09 NOV 2017	UASK AD 2.24.11-5 - 1	04 SEP 2025
AD-2-UASU - 8	16 MAY 2024	UAAL AD 2.24.14 - 1	15 JUN 2023	UASK AD 2.24.11-5 - 2	04 SEP 2025
UASU AD 2.24.1 - 1	15 JUN 2023	UAAL AD 2.24.14 - 2	01 DEC 2022	UASK AD 2.24.11-6 - 1	30 OCT 2025
UASU AD 2.24.1 - 2	01 FEB 2018	AD-2-UASK - 1	16 APR 2026	UASK AD 2.24.11-6 - 2	04 SEP 2025
UASU AD 2.24.3 - 1	15 JUN 2023	AD-2-UASK - 2	06 OCT 2022	UASK AD 2.24.11-7 - 1	14 MAY 2026
UASU AD 2.24.3 - 2	15 JUN 2023	AD-2-UASK - 3	08 AUG 2024	UASK AD 2.24.11-7 - 2	04 SEP 2025
UASU AD 2.24.6 - 1	30 OCT 2025	AD-2-UASK - 4	15 MAY 2025	UASK AD 2.24.11-8 - 1	14 MAY 2026
UASU AD 2.24.6 - 2	11 AUG 2022	AD-2-UASK - 5	16 APR 2026	UASK AD 2.24.11-8 - 2	04 SEP 2025
UASU AD 2.24.7-1 - 1	15 JUN 2023	AD-2-UASK - 6	16 APR 2026	UASK AD 2.24.12 - 1	23 JAN 2025

Page	Date	Page	Date	Page	Date
UASK AD 2.24.12 - 2	30 MAR 2017	UAKD AD 2.24.11-3 - 1	22 JAN 2026		
UASK AD 2.24.14 - 1	23 FEB 2023	UAKD AD 2.24.11-3 - 2	25 FEB 2021		
UASK AD 2.24.14 - 2	11 AUG 2022	UAKD AD 2.24.11-4 - 1	27 NOV 2025		
AD-2-UASZ - 1	05 OCT 2023	UAKD AD 2.24.11-4 - 2	25 FEB 2021		
AD-2-UASZ - 2	05 SEP 2024	UAKD AD 2.24.11-5 - 1	27 NOV 2025		
AD-2-UASZ - 3	05 SEP 2024	UAKD AD 2.24.11-5 - 2	25 FEB 2021		
AD-2-UASZ - 4	05 SEP 2024	UAKD AD 2.24.11-6 - 1	22 JAN 2026		
AD-2-UASZ - 5	05 SEP 2024	UAKD AD 2.24.11-6 - 2	22 JAN 2026		
AD-2-UASZ - 6	23 JAN 2025	UAKD AD 2.24.11-7 - 1	22 JAN 2026		
AD-2-UASZ - 7	04 SEP 2025	UAKD AD 2.24.11-7 - 2	22 JAN 2026		
AD-2-UASZ - 8	16 MAY 2024	UAKD AD 2.24.12 - 1	22 JAN 2026		
UASZ AD 2.24.1 - 1	05 SEP 2024	UAKD AD 2.24.12 - 2	30 MAR 2017		
UASZ AD 2.24.1 - 2	01 FEB 2018	UAKD AD 2.24.14 - 1	27 NOV 2025		
UASZ AD 2.24.3 - 1	05 SEP 2024	UAKD AD 2.24.14 - 2	15 JUL 2021		
UASZ AD 2.24.3 - 2	04 NOV 2021				
UASZ AD 2.24.6 - 1	11 AUG 2022				
UASZ AD 2.24.6 - 2	11 AUG 2022				
UASZ AD 2.24.7-1 - 1	11 AUG 2022				
UASZ AD 2.24.7-1 - 2	01 FEB 2018				
UASZ AD 2.24.7-2 - 1	11 AUG 2022				
UASZ AD 2.24.7-2 - 2	01 FEB 2018				
UASZ AD 2.24.9-1 - 1	11 AUG 2022				
UASZ AD 2.24.9-1 - 2	01 FEB 2018				
UASZ AD 2.24.11-1 - 1	14 MAY 2026				
UASZ AD 2.24.11-1 - 2	11 AUG 2022				
UASZ AD 2.24.12 - 1	11 AUG 2022				
UASZ AD 2.24.12 - 2	01 FEB 2018				
UASZ AD 2.24.14 - 1	23 FEB 2023				
UASZ AD 2.24.14 - 2	11 AUG 2022				
AD-2-UAKD - 1	27 NOV 2025				
AD-2-UAKD - 2	20 MAR 2025				
AD-2-UAKD - 3	22 JAN 2026				
AD-2-UAKD - 4	15 MAY 2025				
AD-2-UAKD - 5	05 SEP 2024				
AD-2-UAKD - 6	22 JAN 2026				
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	22 JAN 2026				
AD-2-UAKD - 12	15 MAY 2025				
UAKD AD 2.24.1 - 1	22 JAN 2026				
UAKD AD 2.24.1 - 2	30 MAR 2017				
UAKD AD 2.24.3 - 1	27 NOV 2025				
UAKD AD 2.24.3 - 2	25 FEB 2021				
UAKD AD 2.24.4 - 1	27 NOV 2025				
UAKD AD 2.24.4 - 2	20 MAR 2025				
UAKD AD 2.24.7-1 - 1	22 JAN 2026				
UAKD AD 2.24.7-1 - 2	27 NOV 2025				
UAKD AD 2.24.7-2 - 1	27 NOV 2025				
UAKD AD 2.24.7-2 - 2	27 NOV 2025				
UAKD AD 2.24.7-3 - 1	22 JAN 2026				
UAKD AD 2.24.7-3 - 2	22 JAN 2026				
UAKD AD 2.24.7-4 - 1	22 JAN 2026				
UAKD AD 2.24.7-4 - 2	22 JAN 2026				
UAKD AD 2.24.9-1 - 1	27 NOV 2025				
UAKD AD 2.24.9-1 - 2	27 NOV 2025				
UAKD AD 2.24.9-2 - 1	27 NOV 2025				
UAKD AD 2.24.9-2 - 2	27 NOV 2025				
UAKD AD 2.24.9-3 - 1	22 JAN 2026				
UAKD AD 2.24.9-3 - 2	22 JAN 2026				
UAKD AD 2.24.9-4 - 1	22 JAN 2026				
UAKD AD 2.24.9-4 - 2	22 JAN 2026				
UAKD AD 2.24.9-5 - 1	22 JAN 2026				
UAKD AD 2.24.9-5 - 2	22 JAN 2026				
UAKD AD 2.24.10 - 1	27 NOV 2025				
UAKD AD 2.24.10 - 2	30 MAR 2017				
UAKD AD 2.24.11-1 - 1	22 JAN 2026				
UAKD AD 2.24.11-1 - 2	31 OCT 2024				
UAKD AD 2.24.11-2 - 1	22 JAN 2026				
UAKD AD 2.24.11-2 - 2	25 FEB 2021				

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GEN 2.4 LOCATION INDICATORS

* Station is not connected to the AFTN

ENCODE	
Name	Identifier
AKTAU	UATE
AKTOBE	UATT
ALMATY / CIVIL AVIATION COMMITTEE'S BRANCH	UAAD
ALMATY	UAAA
ARALSK*	UATA
ARKALYK	UAUR
ASTANA / AIR NAVIGATION SERVICE PROVIDER	UAAK
ASTANA / CIVIL AVIATION ADMINISTRATION JSC	UACE
ASTANA / CIVIL AVIATION COMMITTEE	UACD
ASTANA FIR / ACC	UACN
ASTANA	UACC
ATYRAU	UATG
BAIKONUR / KRAINIY	UAOL
BAIKONUR / YUBILEINIY	UAON
BALKHASH	UAAH
BOZHBAN	UAIK
EKIBASTUZ*	UASB
KARAGANDA	UAKK
KOKSHETAU	UACK
KOSTANAY	UAUU
KYZYLORDA	UAOO
PAVLODAR	UASP
PETROPAVLOVSK	UACP
SATPAY	UASI
SEMEY	UASS
SHYMKENT	UAII
TALDYKORGAN	UAAT
TARAZ	UADD
TENGIZ	UATZ
TURKISTAN	UAIT
URALSK	UARR
URDZHAR	UASU

DECODE	
Identifier	Name
UATE	AKTAU
UATT	AKTOBE
UAAD	ALMATY / CIVIL AVIATION COMMITTEE'S BRANCH
UAAA	ALMATY
UATA	ARALSK*
UAUR	ARKALYK
UAAK	ASTANA / AIR NAVIGATION SERVICE PROVIDER
UACE	ASTANA / CIVIL AVIATION ADMINISTRATION JSC
UACD	ASTANA / CIVIL AVIATION COMMITTEE
UACN	ASTANA FIR / ACC
UACC	ASTANA
UATG	ATYRAU
UAOL	BAIKONUR / KRAINIY
UAON	BAIKONUR / YUBILEINIY
UAAH	BALKHASH
UAIK	BOZHBAN
UASB	EKIBASTUZ*
UAKK	KARAGANDA
UACK	KOKSHETAU
UAUU	KOSTANAY
UAOO	KYZYLORDA
UASP	PAVLODAR
UACP	PETROPAVLOVSK
UASI	SATPAY
UASS	SEMEY
UAII	SHYMKENT
UAAT	TALDYKORGAN
UADD	TARAZ
UATZ	TENGIZ
UAIT	TURKISTAN
UARR	URALSK
UASU	URDZHAR

ENCODE	
Name	Identifier
USHARAL	UAAL
UST-KAMENOGORSK	UASK
ZAISAN	UASZ
ZHEZKAZGAN	UAKD

DECODE	
Identifier	Name
UAAL	USHARAL
UASK	UST-KAMENOGORSK
UASZ	ZAISAN
UAKD	ZHEZKAZGAN

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	AE
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	AE
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
ZSN	SATPAY	DVOR/DME	AE
SMK	SHYMKENT	DVOR/DME	A
SKN	SHYMKENT	NDB	A
IIM	SHYMKENT	ILS/DME	A
IEN	SHYMKENT	ILS/DME	A
TDK	TALDYKORGAN	DVOR/DME	A
TAR	TARAZ	DVOR/DME	A
IMB	TARAZ	ILS/DME	A
IYL	TARAZ	ILS/DME	A
TGZ	TENGIZ	VOR/DME	A
KI	TENGIZ	NDB	A
TRK	TURKISTAN	DVOR/DME	A
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	A
SH	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	A
DZG	ZHEZKAZGAN	DVOR/DME	AE

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
SATPAY	DVOR/DME	ZSN	AE
SHYMKENT	DVOR/DME	SMK	A
SHYMKENT	NDB	SKN	A
SHYMKENT	ILS/DME	IIM	A
SHYMKENT	ILS/DME	IEN	A
TALDYKORGAN	DVOR/DME	TDK	A
TARAZ	DVOR/DME	TAR	A
TARAZ	ILS/DME	IMB	A
TARAZ	ILS/DME	IYL	A
TENGIZ	VOR/DME	TGZ	A
TENGIZ	NDB	KI	A
TURKISTAN	DVOR/DME	TRK	A
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	A
USHARAL	NDB	SH	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	A
ZHEZKAZGAN	DVOR/DME	DZG	AE

Decode			
ID	Station name	Aid	Purpose
IGN	ZHEZKAZGAN	ILS/DME	A

Encode			
Station name	Aid	ID	Purpose
ZHEZKAZGAN	ILS/DME	IGN	A

(A) Aerodrome aid

(AE) Aerodrome and en-route aid

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GEN 2.7 SUNRISE/SUNSET**1. GENERAL**

The tables include 27 public airports and aerodromes.

The times in the tables are given in UTC for beginning of civil morning twilight (TWIL FROM), sunrise (SR), sunset (SS), and end of civil evening twilight (TWIL TO).

The times given for the beginning of civil morning twilight and end of civil evening twilight are calculated for an altitude of the Sun 6° below the horizon as commonly used.

2. ALPHABETICAL INDEX

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BOZHBAN	GEN-2.7-9
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PAVLODAR	GEN-2.7-14
PETROPAVLOVSK	GEN-2.7-15
SATPAY	GEN-2.7-16
SEMEY	GEN-2.7-17
SHYMKENT	GEN-2.7-18
TALDYKORGAN	GEN-2.7-19
TARAZ	GEN-2.7-20
TENGIZ	GEN-2.7-21
TURKISTAN	GEN-2.7-22
URALSK	GEN-2.7-23
URDZHAR	GEN-2.7-24
USHARAL	GEN-2.7-25
UST-KAMENOGORSK	GEN-2.7-26
ZAISAN	GEN-2.7-27
ZHEZKAZGAN	GEN-2.7-28

3. SUNRISE/SUNSET TABLES

AKTAU
UATE
435136N 0510527E

AKTAU
UATE
435136N 0510527E

AKTAU
UATE
435136N 0510527E

MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0337	0410	1309	1342	MAY 1	0058	0129	1537	1608	SEP 2	0131	0200	1512	1542
5	0337	0410	1312	1345	5	0052	0124	1542	1614	6	0135	0205	1505	1534
9	0337	0409	1316	1349	9	0046	0119	1546	1619	10	0140	0209	1458	1527
13	0336	0408	1321	1353	13	0041	0114	1551	1624	14	0145	0214	1450	1519
17	0334	0406	1326	1358	17	0036	0110	1555	1629	18	0149	0218	1443	1512
21	0332	0403	1331	1402	21	0032	0106	1600	1633	22	0154	0222	1435	1504
25	0329	0400	1336	1407	25	0028	0102	1604	1638	26	0158	0227	1428	1457
29	0326	0356	1341	1412	29	0025	0100	1607	1642	30	0203	0232	1421	1449
FEB 2	0322	0352	1347	1417	JUN 2	0022	0057	1611	1646	OCT 4	0207	0236	1413	1442
6	0317	0348	1352	1423	6	0020	0056	1614	1649	8	0212	0241	1406	1435
10	0313	0343	1358	1428	10	0019	0054	1616	1652	12	0217	0246	1359	1428
14	0308	0337	1403	1433	14	0018	0054	1618	1654	16	0222	0250	1353	1422
18	0302	0331	1409	1438	18	0018	0054	1620	1656	20	0226	0255	1346	1415
22	0256	0325	1414	1443	22	0018	0055	1621	1657	24	0231	0300	1340	1409
26	0250	0319	1420	1448	26	0020	0056	1622	1658	28	0236	0306	1334	1403
					30	0021	0057	1621	1657					
MAR 2	0243	0312	1425	1453	JUL 4	0024	0059	1621	1656	NOV 1	0241	0311	1328	1358
6	0237	0305	1430	1458	8	0027	0102	1619	1655	5	0246	0316	1323	1353
10	0230	0258	1435	1503	12	0030	0105	1618	1653	9	0251	0321	1318	1349
14	0223	0251	1440	1508	16	0034	0108	1615	1650	13	0256	0327	1314	1345
18	0215	0244	1445	1513	20	0038	0112	1612	1646	17	0301	0332	1310	1341
22	0208	0237	1449	1518	24	0042	0116	1609	1642	21	0306	0337	1307	1338
26	0201	0229	1454	1523	28	0047	0120	1605	1638	25	0310	0342	1304	1336
30	0153	0222	1459	1528						29	0315	0347	1302	1334
APR 3	0146	0215	1504	1533	AUG 1	0052	0124	1600	1633	DEC 3	0319	0351	1300	1333
7	0139	0208	1508	1538	5	0056	0129	1555	1628	7	0323	0355	1259	1332
11	0131	0201	1513	1543	9	0101	0133	1550	1622	11	0326	0359	1259	1332
15	0124	0154	1518	1548	13	0106	0138	1544	1616	15	0329	0402	1300	1332
19	0117	0147	1523	1553	17	0111	0142	1538	1609	19	0332	0405	1301	1334
23	0111	0141	1527	1558	21	0116	0147	1532	1603	23	0334	0407	1302	1335
27	0104	0135	1532	1603	25	0121	0151	1526	1556	27	0336	0409	1305	1338
					29	0126	0156	1519	1549	31	0337	0409	1308	1341

**AKTOBE
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MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0333	0412	1218	1257	MAY 1	0012	0048	1530	1606	SEP 2	0053	0127	1457	1531
5	0333	0411	1223	1301	5	0004	0041	1536	1613	6	0100	0133	1448	1522
9	0332	0410	1227	1305	9	2356	0035	1542	1620	10	0106	0139	1439	1513
13	0330	0408	1233	1310	13	2349	0029	1548	1627	14	0112	0145	1431	1503
17	0327	0405	1239	1316	17	2343	0023	1554	1634	18	0119	0151	1422	1454
21	0324	0401	1245	1322	21	2337	0018	1559	1640	22	0125	0157	1413	1445
25	0320	0356	1252	1328	25	2332	0013	1605	1646	26	0131	0203	1404	1436
29	0316	0351	1258	1334	29	2327	0010	1609	1652	30	0137	0209	1355	1427
FEB 2	0311	0346	1305	1340	JUN 2	2323	0006	1614	1657	OCT 4	0143	0216	1346	1418
6	0305	0340	1312	1347	6	2320	0004	1618	1702	8	0149	0222	1337	1410
10	0259	0333	1319	1353	10	2317	0002	1621	1705	12	0156	0228	1329	1401
14	0252	0326	1326	1400	14	2316	0001	1623	1708	16	0202	0235	1320	1353
18	0245	0319	1333	1407	18	2316	0001	1625	1710	20	0208	0241	1312	1345
22	0238	0311	1340	1413	22	2316	0001	1626	1712	24	0214	0248	1304	1338
26	0230	0303	1347	1420	26	2317	0002	1627	1712	28	0221	0254	1257	1331
					30	2320	0004	1626	1711					
MAR 2	0222	0255	1354	1426	JUL 4	2323	0007	1625	1710	NOV 1	0227	0301	1250	1324
6	0214	0247	1400	1433	8	2326	0010	1623	1707	5	0233	0308	1243	1318
10	0206	0238	1407	1439	12	2331	0014	1620	1704	9	0240	0315	1237	1312
14	0157	0229	1413	1446	16	2336	0018	1617	1700	13	0246	0321	1231	1306
18	0148	0221	1420	1452	20	2342	0023	1613	1655	17	0252	0328	1226	1302
22	0139	0212	1426	1459	24	2347	0028	1608	1649	21	0258	0335	1221	1258
26	0130	0203	1433	1505	28	2354	0034	1603	1643	25	0304	0341	1217	1254
30	0121	0154	1439	1512						29	0309	0347	1214	1251
APR 3	0112	0145	1445	1518	AUG 1	0000	0039	1557	1636	DEC 3	0314	0352	1211	1249
7	0103	0137	1452	1525	5	0007	0045	1551	1629	7	0319	0357	1210	1248
11	0054	0128	1458	1532	9	0013	0051	1544	1622	11	0323	0401	1209	1247
15	0045	0120	1504	1539	13	0020	0057	1537	1614	15	0326	0405	1209	1248
19	0036	0111	1511	1545	17	0027	0103	1530	1606	19	0329	0408	1210	1249
23	0028	0103	1517	1552	21	0034	0109	1522	1557	23	0331	0410	1211	1250
27	0020	0056	1523	1559	25	0040	0115	1514	1549	27	0333	0411	1214	1253
					29	0047	0121	1505	1540	31	0333	0412	1217	1256

ALMATY
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MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0153	0225	1127	1200	MAY 1	2316	2347	1353	1424	SEP 2	2348	0018	1329	1358
5	0153	0225	1131	1203	5	2310	2342	1358	1429	6	2353	0022	1322	1351
9	0153	0225	1135	1207	9	2305	2337	1402	1434	10	2357	0026	1314	1343
13	0152	0223	1139	1211	13	2259	2332	1407	1439	14	0002	0031	1307	1336
17	0150	0221	1144	1215	17	2255	2328	1411	1444	18	0007	0035	1300	1328
21	0148	0219	1149	1220	21	2251	2324	1415	1449	22	0011	0039	1253	1321
25	0145	0216	1154	1225	25	2247	2321	1419	1453	26	0015	0044	1245	1314
29	0142	0212	1159	1230	29	2244	2318	1423	1457	30	0020	0048	1238	1306
FEB 2	0138	0208	1205	1235	JUN 2	2241	2316	1426	1501	OCT 4	0024	0053	1231	1259
6	0134	0204	1210	1240	6	2239	2314	1429	1504	8	0029	0057	1224	1252
10	0129	0159	1216	1245	10	2238	2313	1432	1507	12	0034	0102	1217	1245
14	0124	0154	1221	1250	14	2237	2312	1434	1509	16	0038	0107	1210	1239
18	0119	0148	1226	1256	18	2237	2312	1436	1511	20	0043	0112	1204	1233
22	0113	0142	1232	1301	22	2237	2313	1437	1512	24	0048	0117	1157	1227
26	0107	0136	1237	1306	26	2239	2314	1437	1513	28	0053	0122	1152	1221
					30	2240	2316	1437	1513					
MAR 2	0100	0129	1243	1311	JUL 4	2243	2318	1436	1512	NOV 1	0057	0127	1146	1216
6	0054	0122	1247	1315	8	2245	2320	1435	1510	5	0102	0132	1141	1211
10	0047	0115	1252	1320	12	2249	2323	1433	1508	9	0107	0137	1136	1206
14	0040	0108	1257	1325	16	2252	2327	1431	1505	13	0112	0143	1132	1202
18	0033	0101	1301	1330	20	2256	2330	1428	1502	17	0117	0148	1128	1159
22	0025	0054	1306	1335	24	2301	2334	1425	1458	21	0122	0153	1125	1156
26	0018	0047	1311	1339	28	2305	2338	1421	1454	25	0126	0158	1122	1154
30	0011	0040	1316	1344						29	0131	0203	1120	1152
APR 3	0004	0032	1320	1349	AUG 1	2310	2342	1416	1449	DEC 3	0135	0207	1119	1151
7	2356	0025	1325	1354	5	2315	2347	1411	1443	7	0139	0211	1118	1150
11	2349	0018	1329	1359	9	2319	2351	1406	1438	11	0142	0215	1118	1150
15	2342	0012	1334	1404	13	2324	2355	1401	1432	15	0145	0218	1118	1151
19	2335	0005	1339	1409	17	2329	0000	1355	1426	19	0148	0221	1119	1152
23	2329	2359	1344	1414	21	2334	0004	1349	1419	23	0150	0223	1121	1153
27	2322	2353	1348	1419	25	2339	0009	1342	1412	27	0152	0224	1123	1156
					29	2344	0013	1336	1405	31	0153	0225	1126	1159

ARKALYK
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501907N 0665709E

MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0319	0401	1138	1220	MAY 1	2333	0014	1513	1553	SEP 2	0020	0057	1436	1512
5	0318	0400	1142	1224	5	2325	0006	1520	1601	6	0028	0104	1427	1502
9	0317	0358	1148	1229	9	2316	2358	1527	1609	10	0035	0110	1417	1452
13	0314	0355	1154	1235	13	2308	2351	1534	1617	14	0042	0117	1407	1442
17	0311	0352	1200	1241	17	2300	2345	1541	1625	18	0049	0124	1357	1432
21	0307	0347	1207	1247	21	2253	2339	1547	1633	22	0056	0131	1348	1422
25	0303	0342	1215	1254	25	2247	2334	1553	1640	26	0103	0138	1338	1412
29	0258	0336	1222	1301	29	2241	2329	1558	1647	30	0110	0145	1328	1403
FEB 2	0252	0330	1230	1308	JUN 2	2236	2325	1603	1653	OCT 4	0117	0152	1318	1353
6	0246	0323	1238	1315	6	2232	2322	1608	1658	8	0124	0159	1309	1344
10	0239	0316	1246	1322	10	2229	2320	1611	1702	12	0131	0206	1259	1334
14	0231	0308	1253	1330	14	2227	2319	1614	1706	16	0138	0213	1250	1325
18	0224	0300	1301	1337	18	2226	2318	1616	1708	20	0145	0221	1241	1317
22	0216	0251	1309	1345	22	2227	2319	1617	1710	24	0152	0228	1233	1308
26	0207	0242	1317	1352	26	2228	2320	1618	1710	28	0159	0236	1224	1301
					30	2231	2322	1617	1709					
MAR 2	0158	0233	1324	1359	JUL 4	2234	2325	1616	1707	NOV 1	0207	0243	1216	1253
6	0149	0224	1332	1407	8	2239	2329	1613	1703	5	0214	0251	1209	1246
10	0140	0214	1339	1414	12	2244	2333	1610	1659	9	0221	0259	1202	1239
14	0130	0205	1347	1421	16	2250	2338	1606	1654	13	0228	0306	1155	1233
18	0121	0155	1354	1429	20	2257	2344	1601	1648	17	0234	0313	1149	1228
22	0111	0145	1401	1436	24	2304	2349	1556	1641	21	0241	0321	1144	1223
26	0101	0136	1408	1443	28	2311	2356	1550	1634	25	0247	0328	1139	1219
30	0051	0126	1416	1451						29	0253	0334	1135	1216
APR 3	0041	0116	1423	1458	AUG 1	2319	0002	1543	1626	DEC 3	0259	0340	1132	1213
7	0031	0107	1430	1506	5	2326	0009	1536	1618	7	0304	0345	1130	1212
11	0021	0057	1437	1513	9	2334	0015	1528	1610	11	0308	0350	1129	1211
15	0011	0048	1444	1521	13	2342	0022	1520	1601	15	0312	0354	1128	1211
19	0001	0039	1451	1529	17	2350	0029	1512	1551	19	0315	0357	1129	1212
23	2352	0030	1459	1537	21	2358	0036	1503	1542	23	0317	0359	1131	1213
27	2343	0022	1506	1545	25	0005	0043	1455	1532	27	0318	0401	1133	1216
					29	0013	0050	1445	1522	31	0319	0401	1137	1219

ASTANA
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MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0240	0319	1117	1157	MAY 1	2311	2349	1435	1513	SEP 2	2354	0029	1401	1436
5	0239	0319	1122	1101	5	2303	2342	1442	1520	6	0001	0035	1353	1424
9	0238	0317	1127	1105	9	2255	2335	1448	1528	10	0008	0041	1344	1417
13	0236	0315	1132	1111	13	2248	2329	1454	1535	14	0014	0048	1334	1408
17	0233	0311	1138	1116	17	2241	2323	1501	1542	18	0021	0054	1325	1359
21	0230	0308	1145	1122	21	2235	2317	1506	1549	22	0027	0100	1316	1349
25	0226	0303	1151	1128	25	2229	2313	1512	1555	26	0033	0106	1307	1340
29	0221	0258	1158	1135	29	2224	2308	1517	1601	30	0040	0113	1258	1331
FEB 2	0216	0252	1205	1141	JUN 2	2220	2305	1521	1606	OCT 4	0046	0119	1249	1322
6	0210	0246	1213	1248	6	2217	2302	1525	1611	8	0053	0126	1240	1313
10	0204	0239	1220	1255	10	2214	2300	1529	1615	12	0059	0132	1231	1304
14	0157	0232	1227	1302	14	2213	2259	1531	1618	16	0105	0139	1222	1256
18	0150	0224	1234	1309	18	2212	2259	1533	1620	20	0112	0146	1214	1248
22	0142	0216	1242	1315	22	2212	2259	1534	1621	24	0119	0152	1206	1240
26	0134	0208	1249	1322	26	2214	2301	1535	1622	28	0125	0200	1158	1233
					30	2216	2303	1534	1621					
MAR 2	0126	0159	1256	1329	JUL 4	2219	2305	1533	1619	NOV 1	0132	0207	1151	1226
6	0118	0151	1303	1336	8	2223	2309	1531	1616	5	0138	0214	1144	1219
10	0109	0142	1309	1343	12	2228	2313	1528	1613	9	0145	0221	1137	1213
14	0100	0133	1316	1349	16	2233	2317	1524	1608	13	0151	0228	1131	1207
18	0051	0124	1323	1356	20	2239	2322	1520	1603	17	0158	0234	1126	1203
22	0042	0115	1330	1403	24	2245	2328	1515	1557	21	0204	0241	1121	1158
26	0032	0106	1336	1409	28	2252	2333	1510	1551	25	0210	0247	1117	1155
30	0023	0057	1343	1416						29	0215	0253	1113	1152
APR 3	0014	0048	1349	1423	AUG 1	2259	2339	1504	1544	DEC 3	0220	0259	1111	1149
7	0004	0039	1356	1430	5	2306	2345	1457	1537	7	0225	0304	1109	1148
11	2355	0030	1402	1437	9	2313	2351	1450	1529	11	0229	0309	1108	1147
15	2346	0021	1409	1444	13	2320	2357	1443	1521	15	0233	0312	1108	1147
19	2337	0013	1416	1451	17	2327	0004	1435	1512	19	0235	0315	1108	1148
23	2328	0004	1422	1459	21	2334	0010	1427	1503	23	0238	0318	1110	1150
27	2320	2357	1429	1506	25	2341	0016	1419	1454	27	0239	0319	1113	1153
					29	2348	0023	1410	1445	31	0240	0319	1116	1156

ATYRAU
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MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0344	0420	1253	1329	MAY 1	0044	0118	1542	1616	SEP 2	0122	0153	1514	1545
5	0344	0419	1257	1332	5	0038	0112	1548	1622	6	0127	0158	1506	1537
9	0343	0418	1302	1337	9	0031	0106	1553	1628	10	0133	0204	1458	1529
13	0342	0417	1307	1341	13	0025	0101	1558	1634	14	0138	0209	1450	1520
17	0340	0414	1312	1346	17	0019	0056	1604	1640	18	0143	0214	1441	1512
21	0337	0411	1317	1351	21	0014	0051	1608	1645	22	0149	0219	1433	1504
25	0334	0407	1323	1357	25	0010	0048	1613	1651	26	0154	0224	1425	1456
29	0330	0403	1329	1402	29	0006	0044	1617	1656	30	0159	0230	1417	1447
FEB 2	0325	0358	1336	1408	JUN 2	0003	0042	1621	1700	OCT 4	0205	0235	1409	1439
6	0321	0353	1342	1414	6	0000	0039	1625	1704	8	0210	0241	1401	1432
10	0315	0347	1348	1420	10	2358	0038	1627	1707	12	0215	0246	1353	1424
14	0309	0341	1354	1426	14	2357	0037	1630	1710	16	0221	0252	1346	1417
18	0303	0334	1400	1432	18	2357	0037	1631	1711	20	0226	0257	1339	1410
22	0256	0327	1407	1438	22	2356	0038	1633	1713	24	0232	0303	1331	1403
26	0249	0320	1413	1443	26	2359	0039	1633	1713	28	0238	0309	1325	1356
					30	0001	0041	1633	1713					
MAR 2	0242	0313	1419	1449	JUL 4	0003	0043	1632	1711	NOV 1	0243	0315	1318	1350
6	0235	0305	1424	1455	8	0007	0046	1630	1709	5	0249	0321	1312	1345
10	0227	0257	1430	1501	12	0011	0049	1628	1707	9	0255	0327	1307	1340
14	0219	0250	1436	1506	16	0015	0053	1625	1703	13	0300	0333	1302	1335
18	0211	0242	1441	1512	20	0020	0057	1621	1659	17	0306	0339	1257	1331
22	0203	0234	1447	1518	24	0025	0102	1617	1654	21	0311	0345	1253	1327
26	0155	0225	1453	1523	28	0030	0106	1613	1649	25	0316	0350	1250	1324
30	0147	0217	1458	1529						29	0321	0356	1247	1322
APR 3	0138	0209	1504	1535	AUG 1	0036	0111	1608	1643	DEC 3	0326	0401	1245	1320
7	0130	0202	1509	1540	5	0041	0116	1602	1637	7	0330	0405	1244	1319
11	0122	0154	1515	1546	9	0047	0122	1556	1631	11	0334	0409	1244	1319
15	0114	0146	1520	1552	13	0053	0127	1550	1624	15	0337	0412	1244	1319
19	0106	0139	1526	1558	17	0059	0132	1543	1616	19	0340	0415	1245	1321
23	0059	0132	1531	1604	21	0105	0137	1536	1609	23	0342	0417	1247	1322
27	0051	0125	1537	1610	25	0110	0143	1529	1601	27	0343	0419	1249	1325
					29	0116	0148	1521	1553	31	0344	0420	1252	1328

**BALKHASH
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MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0211	0246	1122	1157	MAY 1	2313	2346	1409	1443	SEP 2	2349	0021	1341	1412
5	0211	0246	1125	1201	5	2306	2340	1415	1449	6	2355	0026	1333	1404
9	0210	0245	1130	1205	9	2300	2335	1420	1455	10	0000	0031	1325	1356
13	0209	0243	1135	1209	13	2254	2329	1425	1501	14	0006	0036	1317	1348
17	0207	0241	1140	1214	17	2248	2324	1430	1506	18	0011	0041	1309	1340
21	0204	0238	1146	1219	21	2243	2320	1435	1512	22	0016	0047	1301	1331
25	0201	0234	1151	1225	25	2239	2316	1440	1517	26	0022	0052	1253	1323
29	0157	0230	1157	1230	29	2235	2313	1444	1522	30	0027	0057	1245	1315
FEB 2	0153	0225	1204	1236	JUN 2	2232	2310	1448	1526	OCT 4	0032	0102	1237	1307
6	0148	0220	1210	1242	6	2229	2308	1451	1530	8	0037	0108	1229	1259
10	0142	0214	1216	1248	10	2227	2306	1454	1533	12	0043	0113	1221	1252
14	0137	0208	1222	1254	14	2226	2306	1456	1536	16	0048	0119	1214	1244
18	0130	0202	1228	1259	18	2226	2306	1458	1538	20	0054	0125	1206	1237
22	0124	0155	1234	1305	22	2226	2306	1459	1539	24	0059	0130	1259	1231
26	0117	0148	1240	1311	26	2228	2307	1459	1539	28	0105	0136	1253	1224
					30	2230	2309	1459	1539					
MAR 2	0110	0140	1246	1317	JUL 4	2232	2311	1458	1538	NOV 1	0110	0142	1147	1218
6	0102	0133	1252	1322	8	2235	2314	1457	1536	5	0116	0148	1141	1213
10	0055	0125	1258	1328	12	2239	2318	1455	1533	9	0122	0154	1135	1208
14	0047	0117	1303	1334	16	2244	2321	1452	1530	13	0127	0200	1130	1203
18	0039	0109	1309	1339	20	2248	2326	1448	1526	17	0133	0206	1126	1159
22	0031	0101	1314	1345	24	2253	2330	1444	1521	21	0138	0212	1122	1155
26	0023	0053	1320	1350	28	2259	2335	1440	1516	25	0143	0217	1118	1152
30	0015	0045	1325	1356						29	0148	0222	1116	1150
APR 3	0006	0037	1331	1402	AUG 1	2304	2340	1435	1510	DEC 3	0153	0227	1114	1149
7	2358	0029	1336	1407	5	2310	2345	1429	1504	7	0157	0232	1113	1148
11	2350	0022	1342	1413	9	2315	2350	1423	1457	11	0200	0236	1112	1147
15	2342	0014	1347	1419	13	2321	2355	1417	1451	15	0204	0239	1112	1148
19	2335	0007	1353	1425	17	2327	0000	1410	1443	19	0206	0242	1113	1149
23	2327	0000	1358	1431	21	2333	0005	1403	1436	23	0209	0244	1115	1150
27	2320	2353	1404	1437	25	2338	0010	1356	1428	27	0210	0245	1117	1153
					29	2344	0016	1349	1420	31	0211	0246	1121	1156

BOZHBAN
UAIK
424537N 0672929EBOZHBAN
UAIK
424537N 0672929EBOZHBAN
UAIK
424537N 0672929E

MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0228	0300	1206	1238	MAY 1	2354	0024	1430	1501	SEP 2	0026	0055	1403	1432
5	0228	0300	1210	1242	5	2348	0019	1435	1506	6	0030	0059	1356	1425
9	0228	0259	1214	1246	9	2342	0014	1439	1511	10	0035	0103	1349	1417
13	0227	0258	1219	1250	13	2337	0009	1443	1515	14	0039	0108	1342	1410
17	0225	0256	1223	1254	17	2333	0005	1448	1520	18	0044	0112	1335	1403
21	0223	0254	1228	1259	21	2329	0001	1452	1524	22	0048	0116	1328	1356
25	0220	0251	1233	1304	25	2325	2358	1455	1529	26	0053	0121	1321	1348
29	0217	0247	1239	1309	29	2322	2355	1459	1533	30	0057	0125	1314	1341
FEB 2	0213	0243	1244	1314	JUN 2	2319	2353	1502	1536	OCT 4	0102	0129	1307	1334
6	0209	0238	1249	1319	6	2318	2352	1505	1539	8	0106	0134	1300	1328
10	0204	0233	1255	1324	10	2316	2351	1507	1542	12	0111	0139	1253	1321
14	0159	0228	1300	1329	14	2316	2350	1510	1544	16	0115	0143	1246	1315
18	0154	0222	1305	1334	18	2316	2350	1511	1546	20	0120	0148	1240	1308
22	0148	0217	1310	1339	22	2316	2351	1512	1547	24	0124	0153	1234	1303
26	0142	0210	1315	1343	26	2318	2352	1512	1547	28	0129	0158	1228	1257
					30	2319	2354	1512	1547					
MAR 2	0136	0204	1320	1348	JUL 4	2322	2356	1511	1546	NOV 1	0134	0203	1223	1252
6	0129	0157	1325	1353	8	2325	2359	1510	1544	5	0139	0208	1218	1247
10	0123	0150	1330	1358	12	2328	0002	1508	1542	9	0143	0213	1213	1243
14	0116	0144	1335	1403	16	2332	0005	1506	1539	13	0148	0218	1209	1239
18	0109	0137	1339	1407	20	2336	0009	1503	1536	17	0153	0223	1205	1236
22	0102	0130	1344	1412	24	2340	0012	1459	1532	21	0158	0228	1202	1233
26	0055	0123	1349	1417	28	2344	0016	1455	1527	25	0202	0233	1200	1231
30	0047	0116	1353	1422						29	0206	0237	1158	1239
APR 3	0040	0109	1358	1426	AUG 1	2349	0020	1451	1522	DEC 3	0210	0242	1157	1228
7	0033	0102	1403	1431	5	2353	0025	1446	1517	7	0214	0246	1156	1227
11	0026	0055	1407	1436	9	2358	0018	1441	1511	11	0218	0249	1156	1228
15	0019	0048	1412	1441	13	0003	0033	1435	1505	15	0221	0252	1157	1228
19	0013	0042	1416	1446	17	0007	0037	1429	1459	19	0223	0255	1158	1230
23	0006	0036	1421	1451	21	0012	0042	1423	1453	23	0225	0257	1200	1232
27	0000	0030	1426	1456	25	0017	0046	1417	1446	27	0227	0259	1202	1234
					29	0021	0050	1410	1439	31	0228	0300	1205	1237

**KARAGANDA
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494018N 0732007E**

**KARAGANDA
UAKK
494018N 0732007E**

**KARAGANDA
UAKK
494018N 0732007E**

MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0228	0306	1117	1155	MAY 1	2310	2346	1425	1501	SEP 2	2351	0024	1353	1426
5	0228	0306	1121	1159	5	2302	2339	1431	1508	6	2357	0030	1344	1417
9	0227	0304	1126	1203	9	2255	2333	1437	1515	10	0003	0036	1335	1408
13	0225	0302	1131	1208	13	2248	2327	1443	1521	14	0009	0042	1327	1359
17	0223	0259	1137	1214	17	2242	2321	1448	1528	18	0016	0048	1318	1350
21	0219	0256	1143	1219	21	2236	2316	1454	1534	22	0022	0054	1309	1341
25	0216	0251	1150	1225	25	2231	2312	1459	1540	26	0028	0100	1300	1332
29	0211	0246	1156	1231	29	2226	2308	1504	1546	30	0034	0106	1251	1323
FEB 2	0206	0241	1203	1238	JUN 2	2222	2305	1508	1551	OCT 4	0040	0112	1243	1315
6	0201	0235	1210	1244	6	2219	2302	1512	1555	8	0046	0118	1234	1306
10	0155	0229	1217	1251	10	2217	2301	1515	1559	12	0052	0124	1226	1258
14	0148	0222	1224	1257	14	2216	2300	1517	1601	16	0058	0130	1218	1250
18	0141	0215	1231	1304	18	2215	2259	1519	1604	20	0104	0137	1210	1242
22	0134	0207	1237	1310	22	2216	2300	1520	1605	24	0110	0143	1202	1235
26	0127	0159	1244	1317	26	2217	2301	1521	1605	28	0116	0150	1154	1228
					30	2219	2303	1520	1604					
MAR 2	0119	0151	1251	1323	JUL 4	2222	2306	1519	1603	NOV 1	0123	0156	1147	1221
6	0111	0143	1257	1329	8	2226	2309	1517	1600	5	0129	0203	1141	1215
10	0102	0134	1304	1336	12	2230	2313	1515	1557	9	0135	0210	1135	1209
14	0054	0126	1310	1342	16	2235	2317	1511	1553	13	0141	0216	1129	1204
18	0045	0117	1316	1348	20	2241	2322	1507	1548	17	0147	0223	1124	1159
22	0036	0108	1323	1355	24	2246	2327	1503	1543	21	0153	0229	1119	1155
26	0027	0100	1329	1401	28	2252	2332	1458	1537	25	0159	0235	1115	1152
30	0018	0051	1335	1408						29	0204	0241	1112	1149
APR 3	0000	0042	1341	1414	AUG 1	2259	2337	1452	1531	DEC 3	0209	0246	1110	1147
7	0000	0034	1347	1420	5	2305	2343	1446	1524	7	0214	0251	1108	1146
11	2352	0025	1354	1427	9	2312	2349	1439	1516	11	0218	0256	1107	1145
15	2343	0017	1400	1434	13	2318	2355	1432	1509	15	0221	0259	1107	1146
19	2334	0009	1406	1440	17	2325	0001	1425	1500	19	0224	0302	1108	1147
23	2326	0001	1412	1447	21	2332	0007	1417	1452	23	0226	0304	1110	1148
27	2318	2353	1418	1454	25	2338	0012	1409	1444	27	0227	0306	1112	1151
					29	2344	0018	1401	1435	31	0228	0306	1116	1154

KOKSHETAU
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531949N 0693545EKOKSHETAU
UACK
531949N 0693545EKOKSHETAU
UACK
531949N 0693545E

MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0256	0338	1115	1157	MAY 1	2310	2350	1450	1531	SEP 2	2357	0034	1413	1450
5	0255	0337	1119	1201	5	2301	2343	1457	1539	6	0004	0040	1404	1440
9	0254	0335	1124	1206	9	2253	2335	1504	1547	10	0012	0047	1354	1430
13	0251	0333	1130	1211	13	2245	2328	1511	1555	14	0019	0054	1344	1419
17	0248	0329	1137	1217	17	2237	2322	1518	1603	18	0026	0101	1334	1409
21	0245	0324	1144	1224	21	2230	2316	1524	1610	22	0033	0108	1325	1359
25	0240	0319	1151	1230	25	2223	2310	1530	1617	26	0040	0115	1315	1349
29	0235	0314	1159	1237	29	2217	2306	1536	1624	30	0047	0122	1305	1340
FEB 2	0229	0307	1207	1245	JUN 2	2212	2302	1541	1630	OCT 4	0054	0129	1255	1330
6	0223	0300	1214	1252	6	2208	2259	1545	1635	8	0101	0136	1246	1321
10	0216	0253	1222	1259	10	2205	2257	1549	1640	12	0108	0143	1236	1311
14	0209	0245	1230	1307	14	2203	2255	1552	1643	16	0115	0150	1227	1302
18	0201	0237	1238	1314	18	2203	2255	1554	1646	20	0122	0158	1218	1254
22	0153	0228	1246	1321	22	2203	2255	1555	1647	24	0129	0205	1210	1245
26	0144	0219	1254	1329	26	2204	2257	1555	1647	28	0137	0213	1201	1237
					30	2207	2259	1554	1646					
MAR 2	0135	0210	1301	1336	JUL 4	2211	2302	1553	1644	NOV 1	0144	0220	1153	1230
6	0126	0201	1309	1344	8	2215	2305	1551	1641	5	0151	0228	1146	1223
10	0117	0151	1316	1351	12	2220	2310	1547	1637	9	0158	0236	1138	1216
14	0107	0142	1324	1358	16	2227	2315	1543	1632	13	0205	0243	1132	1210
18	0058	0132	1331	1406	20	2233	2320	1539	1626	17	0212	0251	1126	1205
22	0048	0122	1338	1413	24	2240	2326	1533	1619	21	0218	0258	1120	1200
26	0038	0113	1345	1420	28	2248	2332	1527	1612	25	0224	0305	1116	1156
30	0028	0103	1353	1428						29	0230	0311	1112	1153
APR 3	0018	0053	1400	1435	AUG 1	2255	2339	1520	1604	DEC 3	0236	0317	1109	1150
7	0008	0044	1407	1443	5	2303	2345	1513	1556	7	0241	0323	1106	1148
11	2358	0034	1414	1451	9	2311	2352	1506	1547	11	0245	0328	1105	1147
15	2348	0025	1421	1458	13	2319	2359	1458	1538	15	0249	0331	1105	1147
19	2338	0016	1429	1506	17	2327	0006	1449	1529	19	0252	0335	1105	1148
23	2329	0007	1436	1514	21	2334	0013	1441	1519	23	0254	0337	1107	1150
27	2319	2359	1443	1522	25	2342	0020	1432	1509	27	0255	0338	1110	1152
					29	2350	0027	1423	1500	31	0256	0338	1113	1156

KOSTANAY
UAUU
531231N 0633253E

KOSTANAY
UAUU
531231N 0633253E

KOSTANAY
UAUU
531231N 0633253E

MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0319	0401	1138	1220	MAY 1	2333	0014	1513	1553	SEP 2	0020	0057	1436	1512
5	0318	0400	1142	1224	5	2325	0006	1520	1601	6	0028	0104	1427	1502
9	0317	0358	1148	1229	9	2316	2358	1527	1609	10	0035	0110	1417	1452
13	0314	0355	1154	1235	13	2308	2351	1534	1617	14	0042	0117	1407	1442
17	0311	0352	1200	1241	17	2300	2345	1541	1625	18	0049	0124	1357	1432
21	0307	0347	1207	1247	21	2253	2339	1547	1633	22	0056	0131	1348	1422
25	0303	0342	1215	1254	25	2247	2334	1553	1640	26	0103	0138	1338	1412
29	0258	0336	1222	1301	29	2241	2329	1558	1647	30	0110	0145	1328	1403
FEB 2	0252	0330	1230	1308	JUN 2	2236	2325	1603	1653	OCT 4	0117	0152	1318	1353
6	0246	0323	1238	1315	6	2232	2322	1608	1658	8	0124	0159	1309	1344
10	0239	0316	1246	1322	10	2229	2320	1611	1702	12	0131	0206	1259	1334
14	0231	0308	1253	1330	14	2227	2319	1614	1706	16	0138	0213	1250	1325
18	0224	0300	1301	1337	18	2226	2318	1616	1708	20	0145	0221	1241	1317
22	0216	0251	1309	1345	22	2227	2319	1617	1710	24	0152	0228	1233	1308
26	0207	0242	1317	1352	26	2228	2320	1618	1710	28	0159	0236	1224	1301
					30	2231	2322	1617	1709					
MAR 2	0158	0233	1324	1359	JUL 4	2234	2325	1616	1707	NOV 1	0207	0243	1216	1253
6	0149	0224	1332	1407	8	2239	2329	1613	1703	5	0214	0251	1209	1246
10	0140	0214	1339	1414	12	2244	2333	1610	1659	9	0221	0259	1202	1239
14	0130	0205	1347	1421	16	2250	2338	1606	1654	13	0228	0306	1155	1233
18	0121	0155	1354	1429	20	2257	2344	1601	1648	17	0234	0313	1149	1228
22	0111	0145	1401	1436	24	2304	2349	1556	1641	21	0241	0321	1144	1223
26	0101	0136	1408	1443	28	2311	2356	1550	1634	25	0247	0328	1139	1219
30	0051	0126	1416	1451						29	0253	0334	1135	1216
APR 3	0041	0116	1423	1458	AUG 1	2319	0002	1543	1626	DEC 3	0259	0340	1132	1213
7	0031	0107	1430	1506	5	2326	0009	1536	1618	7	0304	0345	1130	1212
11	0021	0057	1437	1513	9	2334	0015	1528	1610	11	0308	0350	1129	1211
15	0011	0048	1444	1521	13	2342	0022	1520	1601	15	0312	0354	1128	1211
19	0001	0039	1451	1529	17	2350	0029	1512	1551	19	0315	0357	1129	1212
23	2352	0030	1459	1537	21	2358	0036	1503	1542	23	0317	0359	1131	1213
27	2343	0022	1506	1545	25	0005	0043	1455	1532	27	0318	0401	1133	1216
					29	0013	0050	1445	1522	31	0319	0401	1137	1219

KYZYLORDA
UAOO
444223N 0653527EKYZYLORDA
UAOO
444223N 0653527EKYZYLORDA
UAOO
444223N 0653527E

MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0242	0316	1208	1241	MAY 1	2357	0029	1442	1514	SEP 2	0031	0101	1416	1446
5	0242	0316	1211	1244	5	2351	0024	1447	1519	6	0036	0106	1408	1438
9	0242	0315	1215	1248	9	2345	0018	1452	1525	10	0041	0111	1401	1431
13	0241	0313	1220	1253	13	2340	0013	1456	1530	14	0046	0115	1353	1423
17	0239	0311	1225	1257	17	2335	0009	1501	1535	18	0051	0120	1346	1415
21	0237	0309	1230	1302	21	2330	0005	1505	1540	22	0056	0125	1338	1407
25	0234	0305	1236	1307	25	2326	0001	1510	1545	26	0100	0129	1331	1400
29	0230	0302	1241	1313	29	2323	2358	1513	1549	30	0105	0134	1323	1352
FEB 2	0226	0257	1247	1318	JUN 2	2320	2356	1517	1553	OCT 4	0110	0139	1315	1345
6	0222	0252	1253	1323	6	2318	2354	1520	1557	8	0115	0144	1308	1337
10	0217	0247	1258	1329	10	2316	2353	1523	1600	12	0120	0149	1301	1330
14	0211	0242	1304	1334	14	2315	2352	1525	1602	16	0125	0154	1254	1323
18	0206	0236	1310	1340	18	2315	2352	1527	1604	20	0130	0159	1247	1317
22	0200	0229	1315	1345	22	2316	2353	1528	1605	24	0135	0204	1241	1311
26	0153	0223	1321	1350	26	2317	2354	1528	1605	28	0140	0210	1234	1305
					30	2319	2356	1528	1605					
MAR 2	0146	0216	1326	1355	JUL 4	2321	2358	1527	1604	NOV 1	0145	0215	1229	1259
6	0139	0209	1331	1401	8	2324	0001	1526	1602	5	0150	0221	1223	1254
10	0132	0201	1337	1406	12	2328	0004	1524	1600	9	0155	0226	1218	1249
14	0125	0154	1342	1411	16	2332	0007	1521	1557	13	0200	0232	1214	1245
18	0117	0147	1347	1416	20	2336	0011	1518	1553	17	0206	0237	1210	1241
22	0110	0139	1352	1421	24	2340	0015	1514	1598	21	0211	0243	1206	1238
26	0102	0132	1357	1426	28	2345	0019	1510	1544	25	0215	0248	1203	1236
30	0055	0124	1402	1431						29	0220	0253	1201	1234
APR 3	0047	0117	1407	1436	AUG 1	2350	0024	1506	1539	DEC 3	0224	0257	1159	1232
7	0039	0109	1412	1442	5	2355	0028	1501	1534	7	0228	0301	1158	1231
11	0032	0102	1417	1447	9	0000	0033	1455	1528	11	0232	0305	1158	1231
15	0025	0055	1422	1452	13	0006	0038	1449	1521	15	0235	0308	1158	1232
19	0017	0048	1427	1458	17	0011	0042	1443	1515	19	0238	0311	1159	1233
23	0010	0042	1432	1503	21	0016	0047	1437	1508	23	0240	0313	1201	1235
27	0004	0035	1437	1508	25	0021	0052	1430	1501	27	0241	0315	1203	1237
					29	0026	0057	1423	1453	31	0242	0316	1206	1240

**PALVODAR
UASP
521143N 0770424E**

**PALVODAR
UASP
521143N 0770424E**

**PALVODAR
UASP
521143N 0770424E**

MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0222	0303	1049	1131	MAY 1	2244	2323	1417	1456	SEP 2	2329	0005	1341	1417
5	0221	0302	1054	1135	5	2236	2316	1423	1503	6	2336	0012	1332	1407
9	0220	0300	1059	1139	9	2228	2309	1430	1511	10	2343	0018	1323	1357
13	0218	0257	1105	1145	13	2220	2302	1437	1519	14	2350	0025	1313	1348
17	0215	0254	1111	1150	17	2213	2256	1443	1526	18	2357	0031	1304	1338
21	0211	0250	1118	1157	21	2206	2250	1449	1533	22	0004	0038	1254	1328
25	0207	0245	1125	1203	25	2200	2245	1455	1540	26	0011	0044	1245	1318
29	0202	0239	1132	1210	29	2155	2241	1500	1546	30	0017	0051	1235	1309
FEB 2	0156	0233	1140	1217	JUN 2	2150	2237	1505	1552	OCT 4	0024	0058	1226	1300
6	0150	0227	1147	1224	6	2146	2234	1509	1557	8	0031	0105	1217	1250
10	0144	0220	1155	1231	10	2144	2232	1512	1601	12	0037	0111	1207	1242
14	0137	0212	1202	1238	14	2142	2231	1515	1605	16	0044	0118	1159	1233
18	0129	0204	1210	1245	18	2141	2231	1517	1607	20	0051	0126	1150	1224
22	0121	0156	1217	1252	22	2141	2231	1518	1608	24	0058	0133	1141	1216
26	0113	0147	1225	1259	26	2143	2232	1519	1608	28	0105	0140	1133	1209
					30	2145	2234	1518	1607					
MAR 2	0104	0139	1232	1306	JUL 4	2149	2237	1517	1605	NOV 1	0111	0147	1126	1201
6	0056	0130	1239	1313	8	2153	2241	1515	1603	5	0118	0155	1118	1155
10	0047	0120	1247	1320	12	2158	2245	1512	1559	9	0125	0202	1112	1148
14	0037	0111	1254	1327	16	2204	2250	1508	1554	13	0132	0209	1105	1143
18	0028	0102	1301	1334	20	2210	2255	1503	1548	17	0138	0216	1059	1137
22	0018	0052	1308	1342	24	2216	2300	1458	1542	21	0145	0223	1054	1133
26	0009	0043	1314	1349	28	2223	2306	1452	1535	25	0151	0230	1050	1129
30	2359	0034	1321	1356						29	0157	0236	1046	1126
APR 3	2350	0024	1328	1403	AUG 1	2231	0012	1546	1528	DEC 3	0202	0242	1043	1123
7	2340	0015	1335	1410	5	2238	2319	1439	1520	7	0207	0247	1041	1122
11	2330	0006	1342	1418	9	2245	2325	1432	1512	11	0211	0252	1040	1121
15	2321	2357	1349	1425	13	2253	2332	1424	1503	15	0215	0256	1040	1121
19	2311	2348	1356	1433	17	2300	2338	1416	1454	19	0218	0259	1041	1122
23	2302	2340	1403	1440	21	2308	2345	1408	1445	23	0220	0301	1042	1124
27	2253	2331	1410	1448	25	2315	2352	1359	1436	27	0221	0302	1045	1126
					29	2322	2358	1350	1426	31	0222	0303	1048	1129

PETROPAVLOVSK
UACP
544632N 0691110EPETROPAVLOVSK
UACP
544632N 0691110EPETROPAVLOVSK
UACP
544632N 0691110E

MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0303	0348	1106	1151	MAY 1	2303	2346	1457	1539	SEP 2	2353	0032	1417	1455
5	0303	0347	1111	1155	5	2253	2337	1504	1548	6	0001	0039	1407	1445
9	0301	0345	1117	1201	9	2244	2329	1512	1557	10	0009	0046	1357	1434
13	0258	0342	1123	1206	13	2235	2322	1519	1606	14	0017	0054	1347	1423
17	0255	0338	1130	1213	17	2227	2315	1527	1614	18	0025	0101	1336	1413
21	0251	0333	1137	1219	21	2219	2308	1533	1623	22	0032	0108	1326	1402
25	0246	0327	1145	1226	25	2212	2303	1540	1631	26	0040	0116	1316	1352
29	0240	0321	1153	1234	29	2205	2257	1546	1638	30	0047	0123	1305	1341
FEB 2	0234	0314	1202	1241	JUN 2	2159	2253	1551	1645	OCT 4	0055	0131	1255	1331
6	0227	0306	1210	1249	6	2155	2250	1556	1651	8	0102	0138	1245	1321
10	0220	0259	1218	1257	10	2151	2247	1600	1656	12	0110	0146	1235	1311
14	0212	0250	1227	1305	14	2149	2246	1603	1700	16	0117	0154	1225	1302
18	0204	0241	1235	1313	18	2148	2245	1605	1703	20	0125	0202	1216	1253
22	0155	0232	1244	1320	22	2148	2246	1606	1704	24	0133	0210	1207	1244
26	0146	0223	1252	1328	26	2149	2247	1607	1704	28	0140	0218	1158	1236
					30	2152	2249	1606	1703					
MAR 2	0137	0213	1300	1336	JUL 4	2156	2252	1604	1700	NOV 1	0148	0226	1149	1228
6	0127	0203	1308	1344	8	2201	2256	1601	1656	5	0155	0234	1141	1220
10	0118	0154	1316	1352	12	2207	2301	1558	1652	9	0203	0242	1134	1213
14	0107	0143	1324	1400	16	2214	2306	1553	1646	13	0210	0250	1126	1207
18	0057	0133	1332	1408	20	2222	2312	1548	1639	17	0217	0258	1120	1201
22	0047	0123	1339	1416	24	2229	2319	1542	1632	21	0224	0306	1114	1156
26	0036	0113	1347	1423	28	2238	2325	1536	1623	25	0231	0313	1109	1151
30	0026	0103	1355	1431						29	0237	0320	1104	1148
APR 3	0015	0052	1403	1440	AUG 1	2246	2332	1529	1615	DEC 3	0143	0327	1101	1145
7	0005	0042	1410	1448	5	2255	2340	1521	1606	7	0248	0333	1058	1143
11	2354	0032	1418	1456	9	2303	2347	1513	1556	11	0253	0338	1057	1142
15	2344	0023	1426	1505	13	2312	2354	1504	1547	15	0257	0342	1056	1142
19	2333	0013	1433	1513	17	2320	0002	1455	1537	19	0300	0345	1057	1142
23	2323	0004	1441	1522	21	2329	0009	1446	1527	23	0302	0347	1059	1144
27	2313	2354	1449	1531	25	2337	0017	1437	1516	27	0303	0348	1101	1146
					29	2345	0024	1427	1506	31	0304	0349	1105	1150

**SATPAY
UASI
473654N 0843414E**

**SATPAY
UASI
473654N 0843414E**

**SATPAY
UASI
473654N 0843414E**

MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0133	0209	1040	1116	MAY 1	2231	2306	1331	1405	SEP 2	2309	2341	1302	1334
5	0133	0209	1044	1119	5	2224	2259	1337	1412	6	2314	2346	1254	1326
9	0132	0208	1048	1123	9	2218	2253	1342	1418	10	2320	2351	1246	1318
13	0131	0206	1053	1128	13	2212	2248	1348	1424	14	2325	2356	1238	1309
17	0129	0203	1059	1133	17	2206	2243	1353	1429	18	2331	0002	1230	1301
21	0126	0200	1104	1138	21	2201	2238	1358	1435	22	2336	0007	1222	1252
25	0123	0157	1110	1144	25	2156	2234	1402	1440	26	2342	0012	1213	1244
29	0119	0152	1116	1150	29	2152	2231	1407	1445	30	2347	0018	1205	1236
FEB 2	0114	1147	1123	1155	JUN 2	2149	2228	1411	1450	OCT 4	2353	0023	1157	1228
6	0109	0142	1129	1201	6	2146	2226	1414	1454	8	2358	0029	1149	1220
10	0104	0136	1135	1207	10	2145	2225	1417	1457	12	0004	0034	1141	1212
14	0058	0130	1142	1213	14	2143	2224	1419	1500	16	0009	0040	1134	1205
18	0052	0123	1148	1219	18	2143	2224	1421	1502	20	0015	0046	1126	1157
22	0045	0116	1154	1225	22	2144	2224	1422	1503	24	0020	0052	1119	1151
26	0038	0109	1200	1231	26	2145	2225	1423	1503	28	0026	0058	1112	1144
					30	2147	2227	1422	1503					
MAR 2	0031	0101	1206	1237	JUL 4	2149	2230	1421	1501	NOV 1	0032	0104	1106	1138
6	0023	0054	1212	1243	8	2153	2232	1420	1459	5	0038	0110	1100	1132
10	0015	0046	1218	1249	12	2157	2236	1417	1457	9	0043	0116	1054	1127
14	0007	0038	1224	1254	16	2201	2240	1415	1453	13	0049	0122	1049	1122
18	2359	0030	1229	1300	20	2206	2244	1411	1449	17	0054	0128	1044	1118
22	2351	0022	1235	1306	24	2211	2248	1407	1444	21	0100	0134	1040	1115
26	2343	0014	1241	1312	28	2217	2253	1402	1439	25	0105	0140	1037	1112
30	2334	0005	1246	1317						29	0110	0145	1034	1109
APR 3	2326	2357	1252	1323	AUG 1	2222	2258	1357	1433	DEC 3	0115	0150	1032	1107
7	2318	2349	1257	1329	5	2228	2303	1351	1427	7	0119	0154	1031	1106
11	2310	2342	1303	1335	9	2234	2309	1345	1420	11	0123	0158	1030	1106
15	2302	2334	1309	1341	13	2240	2314	1339	1413	15	0126	0202	1031	1106
19	2254	2326	1314	1347	17	2246	2319	1332	1406	19	0129	0205	1032	1107
23	2246	2319	1320	1353	21	2251	2325	1325	1358	23	0131	0207	1033	1109
27	2239	2312	1326	1359	25	2257	2330	1318	1350	27	0132	0208	1036	1112
					29	2303	2335	1310	1342	31	0133	0209	1039	1115

SEMEY
UASS
502106N 0801402ESEMEY
UASS
502106N 0801402ESEMEY
UASS
502106N 0801402E

MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0202	0240	1046	1124	MAY 1	2239	2316	1358	1435	SEP 2	2321	2355	1325	1359
5	0201	0240	1050	1128	5	2231	2309	1404	1442	6	2327	0001	1316	1350
9	0200	0238	1055	1133	9	2224	2302	1410	1449	10	2334	0007	1308	1341
13	0158	0236	1100	1138	13	2217	2256	1416	1456	14	2340	0013	1259	1332
17	0156	0233	1106	1143	17	2210	2251	1422	1502	18	2346	0019	1250	1322
21	0153	0229	1112	1149	21	2204	2245	1428	1509	22	2352	0025	1241	1313
25	0149	0225	1119	1155	25	2159	2241	1433	1515	26	2359	0031	1232	1304
29	0144	0220	1126	1201	29	2154	2237	1438	1521	30	0005	0037	1223	1255
FEB 2	0139	0214	1133	1208	JUN 2	2150	2234	1442	1526	OCT 4	0011	0043	1214	1246
6	0133	0208	1140	1214	6	2147	2231	1446	1530	8	0017	0050	1205	1238
10	0127	0202	1147	1221	10	2144	2229	1449	1534	12	0023	0056	1157	1229
14	0121	0155	1154	1228	14	2143	2228	1452	1537	16	0030	0103	1148	1221
18	0114	0147	1201	1234	18	2142	2228	1454	1539	20	0036	0109	1140	1213
22	0106	0139	1208	1241	22	2143	2228	1455	1540	24	0042	0116	1132	1206
26	0058	0131	1215	1248	26	2144	2230	1455	1541	28	0049	0122	1125	1158
					30	2146	2232	1455	1540					
MAR 2	0050	0123	1221	1254	JUL 4	2150	2234	1454	1538	NOV 1	0055	0129	1117	1152
6	0042	0115	1228	1301	8	2153	2237	1452	1536	5	0101	0136	1111	1145
10	0034	0106	1235	1307	12	2158	2241	1449	1532	9	0108	0143	1104	1139
14	0025	0057	1241	1314	16	2203	2246	1446	1528	13	0114	0150	1059	1134
18	0016	0049	1248	1320	20	2209	2250	1441	1523	17	0120	0156	1053	1129
22	0007	0040	1254	1327	24	2214	2256	1437	1518	21	0126	0203	1049	1125
26	2358	0031	1300	1333	28	2221	2301	1431	1512	25	0132	0209	1045	1122
30	2349	0022	1307	1340						29	0137	0215	1041	1119
APR 3	2340	0013	1313	1346	AUG 1	2227	2307	1426	1505	DEC 3	0142	0220	1039	1117
7	2331	0004	1319	1353	5	2234	2312	1419	1458	7	0147	0225	1037	1115
11	2322	2356	1326	1400	9	2241	2318	1413	1450	11	0151	0230	1036	1115
15	2313	2347	1332	1407	13	2247	2324	1405	1442	15	0154	0233	1036	1115
19	2304	2339	1339	1414	17	2254	2330	1358	1434	19	0157	0236	1037	1116
23	2256	2331	1345	1421	21	2301	2337	1350	1426	23	0159	0238	1039	1118
27	2247	2323	1351	1428	25	2308	2343	1342	1417	27	0201	0240	1041	1120
					29	2314	2349	1334	1408	31	0201	0240	1044	1123

SHYMKENT UAI 422154N 0692832E					SHYMKENT UAI 422154N 0692832E					SHYMKENT UAI 422154N 0692832E				
MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0220	0251	1200	1231	MAY 1	2348	0019	1420	1451	SEP 2	0019	0048	1357	1426
5	0220	0251	1203	1235	5	2342	0013	1425	1456	6	0024	0052	1350	1419
9	0220	0251	1207	1239	9	2337	0008	1429	1501	10	0028	0056	1343	1412
13	0219	0250	1211	1243	13	2332	0004	1434	1506	14	0032	0101	1336	1404
17	0217	0248	1216	1247	17	2328	0000	1438	1510	18	0037	0105	1329	1357
21	0215	0246	1221	1252	21	2324	2356	1442	1515	22	0041	0109	1322	1350
25	0113	0243	1226	1256	25	2320	2353	1446	1519	26	0045	0113	1315	1343
29	0209	0240	1231	1301	29	2317	2350	1449	1523	30	0050	0117	1308	1336
FEB 2	0206	0236	1236	1306	JUN 2	2314	2348	1453	1526	OCT 4	0054	0122	1301	1429
6	0202	0231	1242	1311	6	2313	2347	1455	1530	8	0058	0126	1254	1322
10	0157	0226	1247	1316	10	2311	2346	1458	1532	12	0103	0131	1247	1315
14	0152	0221	1252	1321	14	2311	2345	1500	1535	16	0107	0135	1241	1309
18	0147	0216	1257	1326	18	2311	2345	1502	1536	20	0112	0140	1234	1303
22	0141	0210	1302	1331	22	2311	2346	1503	1537	24	0116	0145	1228	1357
26	0136	0204	1307	1336	26	2312	2347	1503	1538	28	0121	0150	1223	1351
					30	2314	2349	1503	1538					
MAR 2	0129	0157	1312	1340	JUL 4	2316	2351	1502	1537	NOV 1	0126	0155	1217	1246
6	0123	0151	1317	1345	8	2319	2353	1501	1535	5	0130	0200	1212	1242
10	0116	0144	1322	1350	12	2322	2356	1459	1533	9	0135	0205	1208	1237
14	0109	0137	1326	1354	16	2326	2359	1457	1531	13	0140	0210	1204	1234
18	0102	0130	1331	1359	20	2330	0003	1454	1528	17	0145	0215	1200	1230
22	0055	0123	1335	1403	24	2334	0006	1451	1524	21	0149	0220	1157	1227
26	0048	0116	1340	1408	28	2338	0010	1447	1520	25	0154	0225	1154	1225
30	0041	0109	1344	1413						29	0158	0229	1152	1223
APR 3	0034	0102	1349	1417	AUG 1	2342	0014	1443	1515	DEC 3	0202	0233	1151	1222
7	0027	0056	1353	1422	5	2347	0018	1438	1510	7	0206	0237	1150	1222
11	0020	0049	1358	1427	9	2352	0023	1433	1504	11	0209	0241	1150	1222
15	0013	0042	1402	1431	13	2356	0027	1428	1459	15	0212	0244	1151	1222
19	0007	0036	1407	1436	17	0001	0031	1422	1452	19	0215	0247	1152	1224
23	0000	0030	1411	1441	21	0006	0035	1416	1446	23	0217	0249	1153	1225
27	2354	0024	1416	1446	25	0010	0040	1410	1440	27	0218	0250	1156	1228
					29	0015	0044	1404	1433	31	0219	0251	1159	1231

TALDYKORGAN
UAAT
450721N 0782634ETALDYKORGAN
UAAT
450721N 0782634ETALDYKORGAN
UAAT
450721N 0782634E

MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0152	0226	1115	1149	MAY 1	2305	2337	1351	1424	SEP 2	2339	0010	1325	1355
5	0152	0226	1119	1152	5	2259	2332	1356	1429	6	2345	0015	1318	1348
9	0151	0225	1123	1156	9	2253	2326	1401	1435	10	2349	0019	1310	1340
13	0150	0223	1128	1201	13	2247	2321	1406	1440	14	2354	0024	1303	1332
17	0149	0221	1133	1205	17	2242	2317	1411	1445	18	2359	0029	1255	1324
21	0146	0218	1138	1210	21	2238	2313	1415	1450	22	0004	0033	1247	1316
25	0143	0215	1144	1216	25	2234	2309	1419	1455	26	0009	0038	1239	1319
29	0140	0211	1149	1221	29	2230	2306	1423	1459	30	0014	0043	1232	1301
FEB 2	0136	0207	1155	1226	JUN 2	2227	2304	1427	1503	OCT 4	0019	0048	1224	1254
6	0131	0202	1201	1232	6	2225	2302	1430	1507	8	0024	0053	1217	1246
10	0126	0157	1206	1237	10	2224	2301	1433	1510	12	0029	0058	1210	1239
14	0121	0151	1212	1243	14	2223	2300	1435	1512	16	0034	0103	1202	1232
18	0115	0145	1218	1248	18	2223	2300	1437	1514	20	0039	0108	1156	1225
22	0109	0139	1224	1253	22	2223	2301	1438	1515	24	0044	0114	1149	1219
26	0102	0132	1229	1259	26	2224	2302	1438	1516	28	0049	0119	1143	1213
					30	2226	2303	1438	1515					
MAR 2	0055	0125	1235	1304	JUL 4	2229	2306	1437	1514	NOV 1	0054	0125	1137	1208
6	0048	0118	1240	1309	8	2232	2308	1436	1513	5	0059	0130	1131	1202
10	0041	0111	1245	1315	12	2235	2311	1434	1510	9	0105	0136	1126	1158
14	0034	0103	1250	1320	16	2239	2315	1431	1507	13	0110	0141	1122	1153
18	0026	0056	1256	1325	20	2243	2319	1428	1504	17	0115	0147	1118	1150
22	0019	0048	1301	1330	24	2248	2323	1424	1459	21	0120	0152	1114	1146
26	0011	0040	1306	1335	28	2253	2327	1420	1455	25	0125	0157	1111	1144
30	0003	0033	1311	1340						29	0130	0202	1109	1142
APR 3	2356	0025	1316	1346	AUG 1	2258	2332	1415	1449	DEC 3	0134	0207	1107	1140
7	2348	0018	1321	1351	5	2303	2336	1410	1444	7	0138	0211	1106	1139
11	2340	0011	1326	1356	9	2308	2341	1405	1438	11	0141	0215	1106	1139
15	2333	0004	1331	1402	13	2314	2346	1359	1431	15	0145	0218	1106	1140
19	2326	2357	1336	1407	17	2319	2351	1353	1425	19	0147	0221	1107	1141
23	2319	2350	1341	1413	21	2324	2355	1346	1418	23	0149	0223	1109	1143
27	2312	2344	1346	1418	25	2329	0000	1339	1410	27	0151	0225	1111	1145
					29	2334	0005	1332	1403	31	0152	0226	1114	1148

**TARAZ
UADD
425116N 0711808E**

**TARAZ
UADD
425116N 0711808E**

**TARAZ
UADD
425116N 0711808E**

MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0214	0246	1151	1223	MAY 1	2340	0011	1415	1446	SEP 2	0012	0041	1351	1420
5	0214	0246	1155	1227	5	2334	0005	1419	1451	6	0016	0045	1344	1413
9	0214	0246	1159	1230	9	2328	0000	1424	1456	10	0021	0049	1337	1405
13	0213	0245	1203	1235	13	2323	2356	1428	1501	14	0025	0054	1330	1358
17	0212	0243	1208	1239	17	2319	2352	1433	1505	18	0029	0058	1322	1351
21	0210	0241	1213	1244	21	2315	2348	1437	1510	22	0034	0102	1315	1343
25	0207	0238	1218	1248	25	2311	2345	1441	1514	26	0038	0106	1308	1336
29	0204	0234	1223	1253	29	2308	2342	1444	1518	30	0043	0111	1301	1329
FEB 2	0200	0230	1228	1258	JUN 2	2305	2340	1448	1522	OCT 4	0047	0115	1254	1322
6	0156	0226	1234	1303	6	2303	2338	1451	1525	8	0051	0120	1247	1315
10	0151	0221	1239	1309	10	2302	2337	1453	1528	12	0056	0124	1240	1308
14	0146	0215	1244	1314	14	2301	2336	1455	1530	16	0101	0129	1233	1302
18	0141	0210	1250	1319	18	2301	2336	1457	1532	20	0105	0134	1227	1255
22	0135	0204	1255	1324	22	2302	2337	1458	1533	24	0110	0139	1221	1250
26	0129	0158	1300	1328	26	2303	2338	1458	1533	28	0115	0144	1215	1244
					30	2305	2340	1458	1533					
MAR 2	0123	0151	1305	1333	JUL 4	2307	2342	1458	1532	NOV 1	0119	0149	1209	1239
6	0116	0145	1310	1338	8	2310	2344	1456	1531	5	0124	0154	1204	1234
10	0109	0138	1315	1343	12	2313	2347	1455	1529	9	0129	0159	1200	1230
14	0102	0131	1319	1348	16	2317	2351	1452	1526	13	0134	0204	1155	1226
18	0055	0124	1324	1352	20	2321	2354	1449	1523	17	0139	0209	1152	1222
22	0048	0117	1329	1357	24	2325	2358	1446	1519	21	0144	0214	1149	1219
26	0041	0109	1333	1402	28	2329	0002	1442	1515	25	0148	0219	1146	1217
30	0034	0102	1338	1406						29	0152	0224	1144	1215
APR 3	0027	0055	1342	1411	AUG 1	2334	0006	1438	1510	DEC 3	0157	0228	1142	1214
7	0019	0048	1347	1416	5	2338	0010	1433	1505	7	0200	0232	1142	1214
11	0012	0042	1352	1421	9	2343	0015	1428	1459	11	0204	0236	1141	1214
15	0005	0035	1356	1426	13	2348	0019	1422	1453	15	0207	0239	1142	1214
19	2359	0028	1401	1431	17	2353	0023	1417	1447	19	0209	0242	1143	1215
23	2352	0022	1406	1436	21	2358	0028	1410	1441	23	0212	0244	1145	1217
27	2346	0016	1410	1441	25	0002	0032	1404	1434	27	0213	0245	1147	1219
					29	0007	0036	1358	1427	31	0214	0246	1150	1222

TENGIS
UATZ
461807N 0532539ETENGIS
UATZ
461807N 0532539ETENGIS
UATZ
461807N 0532539E

MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0335	0410	1250	1325	MAY 1	0040	0113	1535	1609	SEP 2	0118	0149	1505	1536
5	0335	0410	1254	1328	5	0033	0107	1540	1614	6	0123	0154	1457	1528
9	0335	0409	1258	1332	9	0027	0101	1546	1620	10	0129	0159	1449	1520
13	0334	0408	1303	1337	13	0021	0056	1551	1626	14	0134	0204	1441	1512
17	0332	0405	1308	1342	17	0016	0052	1556	1631	18	0139	0209	1434	1504
21	0329	0402	1314	1347	21	0011	0047	1600	1637	22	0144	0214	1426	1456
25	0326	0359	1319	1352	25	0007	0044	1605	1642	26	0149	0219	1418	1448
29	0322	0355	1325	1358	29	0003	0041	1609	1646	30	0154	0224	1410	1440
FEB 2	0318	0350	1331	1403	JUN 2	0000	0038	1612	1650	OCT 4	0200	0229	1402	1432
6	0313	0345	1337	1409	6	2358	0036	1616	1654	8	0205	0235	1354	1424
10	0308	0339	1343	1415	10	2356	0035	1618	1657	12	0210	0240	1347	1417
14	0302	0334	1349	1420	14	2356	0034	1620	1659	16	0215	0246	1339	1410
18	0256	0327	1355	1426	18	2356	0035	1622	1701	20	0221	0251	1332	1403
22	0250	0320	1401	1432	22	2356	0035	1623	1702	24	0226	0257	1325	1356
26	0243	0314	1407	1437	26	2358	0036	1623	1702	28	0231	0303	1319	1350
					30	0000	0038	1623	1702					
MAR 2	0234	0305	1414	1444	JUL 4	0002	0041	1622	1700	NOV 1	0237	0308	1313	1344
6	0227	0257	1420	1450	8	0006	0044	1620	1658	5	0242	0314	1307	1339
10	0219	0249	1425	1455	12	0009	0047	1618	1656	9	0248	0320	1302	1334
14	0212	0242	1431	1501	16	0014	0051	1615	1652	13	0253	0326	1257	1330
18	0204	0234	1436	1506	20	0018	0055	1612	1648	17	0259	0332	1253	1326
22	0156	0226	1442	1512	24	0023	0059	1608	1644	21	0304	0337	1249	1322
26	0148	0218	1447	1517	28	0028	0104	1603	1639	25	0309	0342	1246	1320
30	0140	0210	1452	1523						29	0314	0348	1244	1318
APR 3	0132	0203	1458	1528	AUG 1	0034	0109	1558	1633	DEC 3	0318	0352	1242	1316
7	0124	0155	1503	1534	5	0039	0114	1553	1627	7	0322	0357	1241	1316
11	0116	0147	1508	1540	9	0045	0119	1547	1620	11	0326	0400	1241	1315
15	0108	0140	1514	1545	13	0050	0124	1540	1614	15	0329	0404	1241	1316
19	0101	0133	1519	1551	17	0056	0129	1534	1607	19	0331	0406	1242	1317
23	0054	0126	1524	1557	21	0102	0134	1527	1559	23	0333	0408	1244	1319
27	0046	0119	1530	1603	25	0107	0139	1520	1552	27	0335	0410	1247	1322
					29	0113	0144	1513	1544	31	0335	0410	1250	1325

**TURKISTAN
UAIT
431840N 0683301E**

**TURKISTAN
UAIT
431840N 0683301E**

**TURKISTAN
UAIT
431840N 0683301E**

MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0227	0300	1201	1233	MAY 1	2349	0020	1428	1500	SEP 2	0023	0053	1402	1431
5	0227	0300	1204	1237	5	2343	0015	1433	1505	6	0028	0057	1355	1424
9	0227	0259	1208	1241	9	2338	0010	1438	1510	10	0032	0101	1347	1416
13	0226	0258	1213	1245	13	2332	0005	1442	1515	14	0037	0106	1340	1409
17	0224	0256	1218	1249	17	2328	0001	1446	1520	18	0041	0110	1333	1401
21	0222	0254	1223	1254	21	2324	2357	1451	1524	22	0046	0114	1325	1354
25	0220	0251	1228	1259	25	2320	2354	1454	1529	26	0050	0119	1318	1346
29	0216	0247	1233	1304	29	2317	2351	1458	1533	30	0055	0123	1311	1339
FEB 2	0213	0243	1238	1309	JUN 2	2314	2349	1501	1536	OCT 4	0059	0128	1304	1332
6	0208	0238	1244	1314	6	2313	2348	1504	1539	8	0104	0133	1257	1325
10	0204	0234	1249	1319	10	2311	2347	1507	1542	12	0109	0137	1250	1318
14	0159	0228	1255	1324	14	2311	2346	1509	1544	16	0113	0142	1243	1312
18	0153	0222	1300	1329	18	2311	2346	1510	1546	20	0118	0147	1237	1306
22	0147	0216	1305	1334	22	2311	2347	1511	1547	24	0123	0152	1230	1300
26	0141	0210	1311	1339	26	2313	2348	1512	1547	28	0128	0157	1225	1254
					30	2315	2350	1511	1547					
MAR 2	0133	0202	1317	1346	JUL 4	2317	2352	1511	1546	NOV 1	0133	0202	1219	1249
6	0127	0155	1322	1351	8	2320	2355	1509	1544	5	0138	0208	1214	1244
10	0120	0148	1327	1355	12	2323	2358	1507	1542	9	0143	0213	1209	1240
14	0113	0141	1332	1400	16	2327	0001	1505	1539	13	0147	0218	1205	1236
18	0105	0134	1337	1405	20	2331	0005	1502	1536	17	0152	0223	1201	1232
22	0058	0127	1341	1410	24	2335	0009	1458	1532	21	0157	0228	1158	1230
26	0051	0120	1346	1415	28	2340	0013	1454	1527	25	0202	0233	1156	1227
30	0044	0112	1351	1419						29	0206	0238	1154	1226
APR 3	0036	0105	1355	1424	AUG 1	2345	0017	1450	1522	DEC 3	0210	0242	1152	1224
7	0029	0058	1400	1429	5	2349	0021	1445	1517	7	0214	0246	1152	1224
11	0022	0051	1405	1434	9	2354	0026	1440	1511	11	0217	0250	1151	1224
15	0015	0045	1409	1439	13	2359	0030	1434	1505	15	0220	0253	1152	1225
19	0008	0038	1414	1444	17	0004	0035	1428	1459	19	0223	0255	1153	1226
23	0001	0032	1419	1449	21	0009	0039	1422	1452	23	0225	0257	1155	1228
27	2355	0026	1424	1454	25	0014	0044	1415	1445	27	0226	0259	1158	1230
					29	0019	0048	1408	1438	31	0227	0300	1201	1233

URALSK
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UARR
510907N 0513238EURALSK
UARR
510907N 0513238E

MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0400	0440	1237	1317	MAY 1	0031	0109	1556	1634	SEP 2	0115	0149	1522	1556
5	0400	0439	1242	1321	5	0023	0102	1602	1641	6	0121	0155	1513	1547
9	0358	0437	1247	1326	9	0015	0055	1609	1648	10	0128	0202	1504	1538
13	0356	0435	1252	1331	13	0008	0048	1615	1656	14	0134	0208	1455	1528
17	0354	0432	1258	1336	17	0001	0043	1621	1702	18	0141	0214	1445	1519
21	0350	0428	1305	1342	21	2355	0037	1627	1709	22	0147	0220	1436	1509
25	0346	0423	1311	1348	25	2349	0032	1632	1716	26	0154	0227	1427	1500
29	0342	0418	1318	1355	29	2344	0028	1637	1722	30	0200	0233	1418	1451
FEB 2	0336	0412	1326	1402	JUN 2	2340	0025	1642	1727	OCT 4	0207	0240	1409	1442
6	0330	0406	1333	1408	6	2337	0022	1646	1732	8	0213	0246	1400	1433
10	0324	0359	1340	1415	10	2334	0020	1649	1736	12	0219	0253	1351	1424
14	0317	0352	1347	1422	14	2332	0019	1652	1739	16	0226	0259	1342	1416
18	0310	0344	1355	1429	18	2332	0019	1654	1741	20	0232	0306	1334	1408
22	0302	0336	1402	1436	22	2332	0019	1655	1742	24	0239	0313	1326	1400
26	0254	0328	1409	1443	26	2334	0021	1655	1742	28	0246	0320	1318	1353
					30	2336	0023	1655	1742					
MAR 2	0246	0320	1416	1449	JUL 4	2339	0025	1653	1740	NOV 1	0252	0327	1311	1346
6	0238	0311	1423	1456	8	2343	0029	1651	1737	5	0259	0334	1304	1339
10	0229	0302	1430	1503	12	2348	0033	1648	1733	9	0305	0341	1257	1333
14	0220	0253	1437	1510	16	2353	0037	1645	1729	13	0312	0348	1251	1328
18	0211	0244	1443	1516	20	2359	0042	1641	1724	17	0318	0355	1246	1323
22	0202	0235	1450	1523	24	0005	0048	1636	1718	21	0324	0402	1241	1318
26	0152	0226	1456	1530	28	0012	0053	1630	1711	25	0330	0408	1237	1315
30	0143	0217	1503	1537						29	0336	0414	1233	1312
APR 3	0134	0208	1510	1544	AUG 1	0019	0059	1624	1704	DEC 3	0341	0420	1231	1310
7	0124	0159	1516	1550	5	0026	0105	1618	1657	7	0345	0425	1229	1308
11	0115	0150	1523	1557	9	0033	0111	1611	1649	11	0350	0429	1228	1307
15	0106	0141	1529	1605	13	0040	0118	1603	1641	15	0353	0433	1228	1308
19	0057	0133	1536	1612	17	0047	0124	1555	1632	19	0356	0436	1228	1308
23	0048	0124	1543	1619	21	0054	0130	1547	1624	23	0358	0438	1230	1310
27	0039	0117	1549	1626	25	0101	0137	1539	1615	27	0359	0439	1233	1313
					29	0108	0143	1530	1606	31	0400	0440	1236	1316

URDZHAR
UASU
470531N 0814006E

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470531N 0814006E

MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0145	0220	1054	1130	MAY 1	2246	2319	1343	1417	SEP 2	2322	2354	1315	1346
5	0145	0220	1058	1133	5	2239	2313	1349	1423	6	2328	2359	1307	1338
9	0144	0219	1103	1138	9	2232	2307	1354	1429	10	2333	0004	1259	1330
13	0143	0217	1107	1142	13	2226	2302	1359	1435	14	2339	0010	1251	1322
17	0141	0215	1113	1147	17	2221	2257	1404	1441	18	2344	0015	1243	1313
21	0138	0212	1118	1152	21	2216	2253	1409	1446	22	2350	0020	1234	1305
25	0135	0208	1124	1158	25	2211	2249	1414	1451	26	2355	0025	1226	1257
29	0131	0204	1130	1203	29	2207	2245	1418	1456	30	0000	0031	1218	1249
FEB 2	0127	0159	1137	1209	JUN 2	2204	2243	1422	1501	OCT 4	0006	0036	1210	1241
6	0122	0154	1143	1215	6	2201	2241	1425	1505	8	0011	0041	1202	1233
10	0116	0148	1149	1221	10	2200	2239	1428	1508	12	0016	0047	1155	1225
14	0110	0142	1155	1227	14	2158	2238	1431	1510	16	0022	0053	1147	1218
18	0104	0135	1201	1233	18	2158	2238	1432	1512	20	0027	0058	1140	1211
22	0058	0129	1207	1239	22	2159	2239	1433	1514	24	0033	0104	1133	1204
26	0051	0121	1214	1244	26	2200	2240	1434	1514	28	0039	0110	1126	1157
					30	2202	2242	1434	1513					
MAR 2	0043	0114	1219	1250	JUL 4	2205	2244	1433	1512	NOV 1	0044	0116	1120	1151
6	0036	0106	1225	1256	8	2208	2247	1431	1510	5	0050	0122	1114	1146
10	0028	0059	1231	1301	12	2212	2250	1429	1508	9	0055	0128	1108	1141
14	0020	0051	1237	1307	16	2216	2254	1426	1504	13	0101	0134	1103	1136
18	0012	0043	1242	1313	20	2221	2258	1423	1500	17	0107	0140	1059	1132
22	0004	0035	1248	1318	24	2226	2303	1418	1455	21	0112	0146	1055	1128
26	2356	0027	1253	1324	28	2231	2307	1414	1450	25	0117	0151	1051	1125
30	2348	0019	1259	1330						29	0122	0157	1049	1123
APR 3	2340	0011	1305	1336	AUG 1	2237	2312	1409	1444	DEC 3	0127	0201	1047	1121
7	2331	0003	1310	1341	5	2242	2317	1403	1438	7	0131	0206	1045	1120
11	2323	2355	1316	1347	9	2248	2323	1357	1432	11	0135	0210	1045	1120
15	2315	2347	1321	1353	13	2254	2328	1351	1425	15	0138	0213	1045	1121
19	2308	2340	1327	1359	17	2300	2333	1344	1418	19	0141	0216	1046	1122
23	2300	2333	1332	1405	21	2306	2337	1339	1410	23	0143	0218	1048	1123
27	2253	2326	1338	1411	25	2311	2344	1330	1402	27	0144	0220	1050	1126
					29	2317	2349	1322	1354	31	0145	0220	1053	1129

USHARAL
UAAL
461127N 0804947EUSHARAL
UAAL
461127N 0804947EUSHARAL
UAAL
461127N 0804947E

MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0144	0218	1100	1135	MAY 1	2249	2323	1344	1417	SEP 2	2326	2359	1311	1343
5	0144	0218	1104	1139	5	2243	2317	1349	1423	6	2332	0002	1305	1336
9	0143	0217	1109	1143	9	2237	2311	1354	1429	10	2337	0007	1257	1328
13	0142	0215	1114	1148	13	2231	2306	1359	1434	14	2342	0012	1249	1320
17	0140	0213	1119	1152	17	2225	2301	1404	1440	18	2347	0017	1241	1311
21	0137	0210	1125	1158	21	2221	2257	1409	1445	22	2352	0022	1234	1303
25	0134	0206	1130	1203	25	2216	2253	1413	1450	26	2358	0028	1226	1256
29	0130	0202	1136	1208	29	2213	2250	1417	1454	30	0003	0033	1218	1248
FEB 2	0125	0157	1142	1214	JUN 2	2210	2247	1420	1458	OCT 4	0008	0038	1210	1240
6	0121	0152	1148	1220	6	2207	2246	1424	1502	8	0013	0043	1203	1233
10	0115	0146	1154	1225	10	2206	2244	1426	1505	12	0018	0049	1155	1225
14	0110	0140	1200	1231	14	2205	2244	1429	1507	16	0024	0054	1148	1218
18	0103	0134	1206	1237	18	2205	2244	1430	1509	20	0029	0059	1141	1211
22	0057	0127	1212	1242	22	2206	2244	1431	1510	24	0034	0105	1134	1205
26	0050	0120	1218	1248	26	2207	2246	1431	1510	28	0040	0111	1128	1159
					30	2209	2248	1431	1510					
MAR 2	0043	0113	1223	1253	JUL 4	2212	2250	1430	1508	NOV 1	0045	0116	1122	1153
6	0036	0106	1229	1259	8	2215	2253	1428	1506	5	0051	0122	1116	1147
10	0028	0058	1234	1304	12	2219	2256	1426	1503	9	0056	0128	1111	1143
14	0021	0051	1240	1310	16	2223	2300	1423	1500	13	0101	0134	1106	1138
18	0013	0043	1245	1315	20	2227	2304	1420	1456	17	0107	0139	1102	1134
22	0005	0035	1251	1321	24	2232	2308	1416	1451	21	0112	0145	1058	1131
26	2357	0027	1256	1326	28	2237	2313	1411	1446	25	0117	0150	1055	1128
30	2349	0020	1302	1332						29	0121	0155	1053	1126
APR 3	2342	0012	1307	1337	AUG 1	2243	2318	1406	1440	DEC 3	0126	0200	1051	1125
7	2334	0004	1312	1343	5	2248	2322	1400	1434	7	0130	0204	1050	1124
11	2326	2357	1318	1349	9	2254	2327	1354	1428	11	0133	0208	1050	1124
15	2318	2350	1323	1354	13	2259	2332	1348	1421	15	0137	0211	1050	1125
19	2311	2342	1328	1400	17	2305	2337	1342	1414	19	0139	0214	1051	1126
23	2303	2336	1333	1406	21	2310	2342	1335	1407	23	0141	0216	1053	1128
27	2256	2329	1339	1412	25	2316	2347	1327	1359	27	0143	0218	1056	1131
					29	2321	2352	1320	1351	31	0144	0218	1059	1134

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MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0151	0229	1038	1116	MAY 1	2231	2308	1347	1424	SEP 2	2312	2346	1315	1349
5	0150	0228	1042	1120	5	2224	2301	1353	1430	6	2319	2352	1306	1340
9	0149	0227	1047	1125	9	2216	2254	1359	1437	10	2325	2358	1258	1331
13	0148	0225	1052	1130	13	2209	2248	1405	1444	14	2331	0004	1249	1322
17	0145	0222	1058	1135	17	2203	2243	1411	1451	18	2337	0010	1240	1312
21	0142	0218	1104	1141	21	2157	2238	1416	1457	22	2343	0016	1231	1303
25	0138	0214	1111	1147	25	2152	2233	1422	1503	26	2349	0022	1222	1254
29	0134	0209	1118	1153	29	2147	2229	1426	1508	30	2355	0028	1213	1246
FEB 2	0129	0203	1124	1159	JUN 2	2143	2226	1431	1513	OCT 4	0001	0034	1205	1237
6	0123	0157	1131	1206	6	2140	2224	1434	1518	8	0008	0040	1156	1228
10	0117	0151	1138	1212	10	2138	2222	1438	1522	12	0014	0046	1148	1220
14	0111	0144	1145	1219	14	2137	2221	1440	1525	16	0020	0052	1139	1212
18	0104	0137	1152	1225	18	2136	2221	1442	1527	20	0026	0059	1131	1204
22	0056	0129	1159	1232	22	2136	2221	1443	1528	24	0032	0105	1124	1155
26	0049	0121	1206	1238	26	2138	2222	1444	1528	28	0039	0112	1116	1150
					30	2140	2224	1443	1528					
MAR 2	0041	0113	1212	1245	JUL 4	2143	2227	1442	1526	NOV 1	0045	0119	1109	1143
6	0033	0105	1219	1251	8	2147	2230	1440	1524	5	0051	0125	1102	1137
10	0024	0056	1225	1258	12	2151	2234	1437	1520	9	0057	0132	1056	1131
14	0016	0048	1232	1304	16	2156	2238	1434	1516	13	0104	0139	1050	1126
18	0007	0039	1238	1310	20	2202	2243	1430	1511	17	0110	0145	1045	1121
22	2358	0030	1245	1317	24	2207	2248	1426	1506	21	0116	0152	1041	1117
26	2349	0022	1251	1323	28	2214	2253	1420	1500	25	0121	0158	1037	1114
30	2340	0013	1257	1330						29	0127	0204	1034	1111
APR 3	2331	0004	1303	1336	AUG 1	2220	2259	1415	1453	DEC 3	0131	0209	1031	1109
7	2322	2355	1310	1343	5	2226	2304	1408	1446	7	0136	0214	1030	1107
11	2313	2347	1316	1349	9	2233	2310	1402	1439	11	0140	0218	1029	1107
15	2305	2339	1322	1356	13	2240	2316	1355	1431	15	0143	0222	1029	1107
19	2256	2331	1328	1403	17	2246	2322	1347	1423	19	0146	0225	1030	1108
23	2247	2323	1335	1410	21	2253	2328	1340	1415	23	0148	0227	1031	1110
27	2239	2315	1341	1417	25	2259	2334	1332	1406	27	0150	0228	1034	1112
					29	2306	2340	1323	1357	31	0151	0229	1037	1115

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MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0133	0209	1040	1116	MAY 1	2231	2306	1331	1405	SEP 2	2309	2341	1302	1334
5	0133	0209	1044	1119	5	2224	2259	1337	1412	6	2314	2346	1254	1326
9	0132	0208	1048	1123	9	2218	2253	1342	1418	10	2320	2351	1246	1318
13	0131	0206	1053	1128	13	2212	2248	1348	1424	14	2325	2356	1238	1309
17	0129	0203	1059	1133	17	2206	2243	1353	1429	18	2331	0002	1230	1301
21	0126	0200	1104	1138	21	2201	2238	1358	1435	22	2336	0007	1222	1252
25	0123	0157	1110	1144	25	2156	2234	1402	1440	26	2342	0012	1213	1244
29	0119	0152	1116	1150	29	2152	2231	1407	1445	30	2347	0018	1205	1236
FEB 2	0114	1147	1123	1155	JUN 2	2149	2228	1411	1450	OCT 4	2353	0023	1157	1228
6	0109	0142	1129	1201	6	2146	2226	1414	1454	8	2358	0029	1149	1220
10	0104	0136	1135	1207	10	2145	2225	1417	1457	12	0004	0034	1141	1212
14	0058	0130	1142	1213	14	2143	2224	1419	1500	16	0009	0040	1134	1205
18	0052	0123	1148	1219	18	2143	2224	1421	1502	20	0015	0046	1126	1157
22	0045	0116	1154	1225	22	2144	2224	1422	1503	24	0020	0052	1119	1151
26	0038	0109	1200	1231	26	2145	2225	1423	1503	28	0026	0058	1112	1144
					30	2147	2227	1422	1503					
MAR 2	0031	0101	1206	1237	JUL 4	2149	2230	1421	1501	NOV 1	0032	0104	1106	1138
6	0023	0054	1212	1243	8	2153	2232	1420	1459	5	0038	0110	1100	1132
10	0015	0046	1218	1249	12	2157	2236	1417	1457	9	0043	0116	1054	1127
14	0007	0038	1224	1254	16	2201	2240	1415	1453	13	0049	0122	1049	1122
18	2359	0030	1229	1300	20	2206	2244	1411	1449	17	0054	0128	1044	1118
22	2351	0022	1235	1306	24	2211	2248	1407	1444	21	0100	0134	1040	1115
26	2343	0014	1241	1312	28	2217	2253	1402	1439	25	0105	0140	1037	1112
30	2334	0005	1246	1317						29	0110	0145	1034	1109
APR 3	2326	2357	1252	1323	AUG 1	2222	2258	1357	1433	DEC 3	0115	0150	1032	1107
7	2318	2349	1257	1329	5	2228	2303	1351	1427	7	0119	0154	1031	1106
11	2310	2342	1303	1335	9	2234	2309	1345	1420	11	0123	0158	1030	1106
15	2302	2334	1309	1341	13	2240	2314	1339	1413	15	0126	0202	1031	1106
19	2254	2326	1314	1347	17	2246	2319	1332	1406	19	0129	0205	1032	1107
23	2246	2319	1320	1353	21	2251	2325	1325	1358	23	0131	0207	1033	1109
27	2239	2312	1326	1359	25	2257	2330	1318	1350	27	0132	0208	1036	1112
					29	2303	2335	1310	1342	31	0133	0209	1039	1115

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474233N 0674418E**

MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE	MONTH DAY	CTS	SR	SS	CTE
JAN 1	0243	0319	1147	1223	MAY 1	2339	0013	1441	1515	SEP 2	0017	0049	1411	1443
5	0243	0319	1151	1227	5	2332	0007	1446	1522	6	0023	0054	1403	1435
9	0242	0318	1156	1231	9	2325	0001	1452	1528	10	0028	0100	1355	1427
13	0241	0316	1201	1236	13	2319	2355	1457	1534	14	0034	0105	1347	1418
17	0238	0313	1206	1241	17	2313	2350	1503	1540	18	0039	0110	1339	1410
21	0236	0310	1212	1246	21	2308	2346	1508	1545	22	0045	0116	1330	1401
25	0232	0306	1218	1252	25	2303	2342	1512	1551	26	0050	0121	1322	1351
29	0228	0302	1224	1258	29	2259	2338	1517	1556	30	0056	0127	1314	1344
FEB 2	0224	0257	1230	1304	JUN 2	2256	2335	1521	1600	OCT 4	0101	0132	1305	1336
6	0219	0251	1237	1310	6	2253	2333	1524	1604	8	0107	0138	1257	1328
10	0213	0245	1243	1316	10	2251	2332	1527	1608	12	0112	0143	1249	1320
14	0207	0239	1250	1322	14	2250	2331	1529	1610	16	0118	0149	1242	1313
18	0201	0232	1256	1328	18	2250	2331	1531	1612	20	0124	0155	1234	1306
22	0154	0225	1302	1334	22	2250	2331	1532	1613	24	0129	0201	1227	1259
26	0147	0218	1308	1340	26	2252	2333	1533	1614	28	0135	0207	1220	1252
					30	2254	2334	1532	1613					
MAR 2	0139	0210	1314	1346	JUL 4	2256	2337	1531	1612	NOV 1	0141	0213	1214	1246
6	0132	0203	1321	1351	8	2300	2340	1530	1610	5	0147	0219	1208	1240
10	0124	0155	1326	1357	12	2304	2343	1527	1607	9	0153	0226	1202	1235
14	0116	0147	1332	1403	16	2308	2347	1524	1603	13	0158	0232	1157	1230
18	0108	0138	1338	1409	20	2313	2351	1521	1559	17	0204	0238	1152	1226
22	0059	0130	1344	1415	24	2318	2356	1517	1554	21	0209	0244	1148	1222
26	0051	0122	1350	1421	28	2324	0001	1512	1549	25	0215	0249	1145	1219
30	0043	0114	1355	1426						29	0220	0255	1142	1217
APR 3	0034	0106	1401	1432	AUG 1	2329	0006	1507	1543	DEC 3	0224	0300	1140	1215
7	0026	0058	1407	1438	5	2335	0011	1501	1537	7	0229	0304	1138	1214
11	0018	0050	1412	1444	9	2341	0016	1455	1530	11	0232	0308	1138	1214
15	0009	0042	1418	1450	13	2347	0022	1448	1523	15	0236	0312	1138	1214
19	0001	0034	1424	1457	17	2353	0027	1441	1515	19	0239	0315	1139	1215
23	2354	0027	1429	1503	21	2359	0033	1434	1508	23	0241	0317	1141	1217
27	2346	0020	1435	1509	25	0005	0038	1427	1500	27	0242	0318	1143	1219
					29	0011	0043	1419	1452	31	0243	0319	1146	1222

Name Lateral limits Vertical limits Class of airspace	Unit providing service	Call sign Languages Area and conditions of use Hours of service	Frequency/Purpose	Remarks
1	2	3	4	5
SATPAY TMA 474702N 0835832E then a clockwise arc radius 26 NM centered on 473654N 0843414E – 472900N 0851104E – 472647N 0844843E – 473712N 0841323E - 474702N 0835832E FL140/ 6000FT ALT Class of airspace: C	SATPAY TWR	SATPAY TOWER EN/ RU See NOTAM	122.9 MHZ Primary FREQ	129.0 MHZ Secondary FREQ O/R or at ATC discretion 121.5 MHZ Emergency FREQ Radar in the aerodrome area is not provided. Within the area of responsibilit y of Tower controller, no more than one aircraft shall be present during IFR operations
ARKALYK TMA: 504824N 0662645E – 505353N 0672936E – 503136N 0680751E – 501330N 0681645E – 493757N 0671237E – 494431N 0661957E – 500854N 0660036E – 502128N 0655110E – 504824N 0662645E, excluding Arkalyk CTR. FL140/5000FT ALT Airspace class – C.	ARKALYK TWR	ARKALYK TOWER EN/RU See NOTAM	134.3 MHZ Primary FREQ	129.0 MHZ Secondary FREQ O/R or at ATC discretion 121.5 MHZ Emergency FREQ Radar in the aerodrome area is not provided. Within the area of responsibilit y of Tower controller, no more than one aircraft shall be present during IFR operations.

4. CONTROL AREA

Name Lateral limits Vertical limits Class of airspace	Unit providing service	Call sign Languages Area and conditions of use Hours of service	Frequency/Purpose	Remarks
1	2	3	4	5
ALMATY CTA Within the lateral limits of UAAA FIR FL 510 / FL 120 Class of airspace: C	ALMATY ACC	ALMATY CONTROL EN, RU H24		
AKTOBE CTA Within the lateral limits of UATT FIR FL 510 / FL 120 Class of airspace: C	AKTOBE ACC	AKTOBE CONTROL EN, RU H24		
ASTANA CTA Within the lateral limits of UACN FIR FL 510 / FL 120 Class of airspace: C	ASTANA ACC	ASTANA CONTROL EN, RU H24		
SHYMKENT CTA Within the lateral limits of UAIL FIR FL 510 / FL 120 Class of airspace: C	SHYMKENT ACC	SHYMKENT CONTROL EN, RU H24		

5. AERODROME TRAFFIC ZONES AND CONTROL ZONES

Name Lateral limits Vertical limits Class of airspace	Unit providing service	Call sign Languages Area and conditions of use Hours of service	Frequency/Purpose	Remarks
1	2	3	4	5
BALAPAN ATZ 500018N 0732258E - 500022N 0733303E - 494506N 0732413E - 494102N 0731359E - 494107N 0730509E - 494411N 0730641E - 494558N 0731419E - 495014N 0731405E - 500018N 0732258E 3000 FT ALT / GND Class of airspace: G	AFIS BALAPAN	BALAPAN INFORMATION RU According to the regulations	125 MHZ Primary FREQ	Flight information service
	KARAGAND A TWR	KARAGANDA TOWER EN, RU Outside of work regulations AFIS BALAPAN	122 MHZ Primary FREQ	

Name Lateral limits Vertical limits Class of airspace	Unit providing service	Call sign Languages Area and conditions of use Hours of service	Frequency/Purpose	Remarks
1	2	3	4	5
BORALDAY CTR 432621N 0765114E - 432715N 0765631E - 432102N 0765419E - 431853N 0765356E - 431659N 0764807E - 431729N 0764725E then a clockwise arc radius 5.4 NM centered on 432105N 0765257E - 432621N 0765114E 4000 FT ALT / GND Class of airspace: D	BORALDAY TWR	BORALDAY TOWER EN, RU NOTAM	118.9 MHZ Primary FREQ	Dispatch service
D ISLAND CTR 470132N 0521834E - 461827N 0524636E - 460519N 0520434E - 465304N 0512521E then a clockwise arc radius 22 NM centered on 470838N 0514805E - 470132N 0521834E 3000 FT ALT / GND Class of airspace: C (3000 FT ALT is not used for flights within Atyrau TMA)	D ISLAND TWR	D ISLAND TOWER EN, RU According to the regulations: 02:00 - 14:00 UTC	131.175 MHZ Primary FREQ 127.925 MHZ Secondary FREQ	Air traffic control service. When planning flights to CTR D ISLAND outside of the work regulations, Air traffic control service is provided upon a preliminary request sent by AFTN to UATGYKYD, UATGYKYX
KHLEBODAROVKA1 ATZ 503141N 0571037E - 502657N 0570235E - 501901N 0564315E - 503110N 0565449E - 503141N 0571037E 2000 FT ALT / GND Class of airspace: C	Flight operations management group of Air Defense Force Military Institute	RU NOTAM	Training flights	
KHLEBODAROVKA ATZ 505733N 0564705E - 505800N 0571800E - 504700N 0572800E - 504300N 0573000E - 503141N 0571037E - 503110N 0565449E - 501901N 0564315E - 501232N 0562740E - 503042N 0561237E - 505733N 0564705E 10000 FT ALT / GND Class of airspace: C	Flight operations management group of Air Defense Force Military Institute	RU NOTAM	Training flights	

Name Lateral limits Vertical limits Class of airspace	Unit providing service	Call sign Languages Area and conditions of use Hours of service	Frequency/Purpose	Remarks
1	2	3	4	5
ZHOLAMAN ATZ 511506N 0712100E - 512835N 0711239E - 513035N 0712629E - 512355N 0714219E - 511359N 0713317E - 511506N 0712100E 1300 FT QFE / GND Class of airspace: G				See Aeronautical Information concerning other aerodromes/ heliports/ landing sites

FIC Call sign FREQ Phone Hours of operation	ATS region	Lateral limits	Vertical limits	Remark
1	2	3	4	5
ATYRAU "Atyrau vyshka" HF – 4688 kHz HF alter. – 4830 kHz "Atyrau rayon" VHF – 118.1 MHz VHF alter. – 124.6 MHz Phone: +7 (7122) 983117, 983153 - Air Traffic Manager H24*	Aktobe FIR	N485930 E0522738 - N485000 E0551000 - N465000 E0570000 - N463851 E0564100 - N454418 E0574000 - N452307 E0574000 - along border KAZAKHSTAN_UZBEKISTAN - N435141 E0555948 - N445034 E0541914 - N452130 E0534647 - N455500 E0493000 - N460800 E0492600 - N461400 E0492600 - N461800 E0491600 - N462130 E0491148 - N462224 E0491112 - along border KAZAKHSTAN_RUSSIA - N490704 E0470207 - N485930	GND – 10000 FT ALT	Excluding the TMA and CTR Atyrau, the CTR Tengiz, CTR D- Island
* - When planning flights at another time within Atyrau FIC borders Flight information service (FIS) provided on preliminary request sent AFTN UATGZTZA, UATGZTZX				
KARAGANDA "Karaganda vyshka" HF – 4728 kHz VHF – 122.0 MHz Phone: +7 (7212) 496633, 771178 H24	Astana FIR	503331N 0753513E - 494800N 0761100E - 485000N 0761100E - 480759N 0741658E - 480000N 0714900E - 483700N 0704200E - 494100N 0693200E - 494400N 0683100E - 503136N 0680751E - 501116N 0723844E - 503331N 0753513E	GND – 10000 FT ALT	Excluding the TMA and CTR Karaganda. Excluding the TMA Astana.
KOKSHETAU "Kokshetau vyshka" HF – 4760 kHz HF alter. – 6528 kHz VHF – 127.9 MHz Phone: +7 (7162) 723253 According to the regulations	Astana FIR	540653N 0710841E along border KAZAKHSTAN_RUSSIA - 532838N 0733027E - 524612N 0734430E - 524218N 0734248E - 523548N 0734324E - 524724N 0723406E - 524630N 0715024E - 524548N 0713006E - 523730N 0702500E - 523100N 0684500E - 522724N 0681000E - 522006N 0672830E - 532806N 0664618E - 540306N 0690830E - 540500N 0704712E - 540653N 0710841E	GND – 10000 FT ALT	Excluding the TMA and CTR Kokshetau.
KOSTANAY "Kostanay vyshka" HF – 4680 kHz HF alter. – 4815 kHz VHF – 129.3 MHz Phone: +7 (7142) 270-118, +7 (777) 9008606 from 02:00 to 00:00 UTC	Astana FIR	543735N 0660017E - 532806N 0664618E - 522006N 0672830E - 521149N 0673350E - 503136N 0680751E - 494400N 0683100E - 493036N 0670430E - 491230N 0663936E - 485848N 0654236E - 483738N 0624054E - 502331N 0622455E - 505800N 0613000E along border KAZAKHSTAN_RUSSIA - 543735N 0660017E	GND – 10000 FT ALT	Excluding the TMA and CTR Kostanay. Excluding the TMA and CTR Arkalyk.

FIC Call sign FREQ Phone Hours of operation	ATS region	Lateral limits	Vertical limits	Remark
1	2	3	4	5
KYZYLORDA "Kyzylorda vyshka" HF – 5335 kHz HF alter. - 6672 kHz VHF – 120.9 MHz VHF alter. – 129.0 MHz Phone: +7 (7242) 272204 According to the regulations	Shymkent FIR	471135N 0643220E - 452504N 0692427E - 440138N 0684518E - 431932N 0683446E - 431800N 0682200E - 432534N 0672754E - 430221N 0654313E - along border KAZAKHSTAN_UZBEKISTAN - 445159N 0600655E - 460903N 0613915E - 461214N 0614508E - 471135N 0643220E	GND – 10000 FT ALT	Excluding the part of Uzbekistan airspace delegated to Shymkent FIR. Excluding the CTR and TMA Kyzylorda, CTR and TMA Turkistan.
PAVLODAR "Pavlodar vyshka" HF – 5720 kHz HF alter. – 5632 kHz VHF – 119.8 MHz Phone: +7 (7182) 491318, 491354 – "Tower", 491353 - Air Traffic Manager According to the regulations	Astana FIR	532838N 0733027E along border KAZAKHSTAN_RUSSIA - 510142N 0795110E - 505513N 0791803E - 504125N 0781025E - 494800N 0761100E - 503331N 0753513E - 504730N 0745900E - 504948N 0743606E - 505342N 0741748E - 510200N 0740200E - 511706N 0734530E - 513148N 0734848E - 523548N 0734324E - 524218N 0734248E - 524612N 0734430E - 532838N 0733027E	GND – 10000 FT ALT	Excluding the TMA and CTR Pavlodar.
PETROPAVLOVSK "Petropavlovsk vyshka" HF – 4772 kHz HF alter. – 5552 kHz VHF – 123.7 MHz Phone: +7 (7152) 461213 According to the regulations	Astana FIR	543735N 0660017E along border KAZAKHSTAN_RUSSIA - 540653N 0710841E - 540500N 0704712E - 540306N 0690830E - 532806N 0664618E - 543735N 0660017E	GND – 10000 FT ALT	Excluding the TMA and CTR Petropavlovsk.
SEMEY "Semey vyshka" HF – 6645 kHz VHF – 128.0 MHz Phone: +7 (7222) 569034, 717118, 717153 According to the regulations	Almaty FIR	510142N 0795110E along border KAZAKHSTAN_RUSSIA - 504706N 0815242E - 503130N 0813218E - 493500N 0810300E - 484600N 0805300E - 475508N 0802710E - 461942N 0802000E - 461808N 0784001E - 465357N 0771718E - 485000N 0761100E - 494800N 0761100E - 504125N 0781025E - 505513N 0791803E - 510142N 0795110E	GND – 10000 FT ALT	Excluding the TMA and CTR Semey.

FIC Call sign FREQ Phone Hours of operation	ATS region	Lateral limits	Vertical limits	Remark
1	2	3	4	5
SHYMKENT "Shymkent vyshka" HF – 4696 kHz HF alter. – 3060 kHz VHF – 125.9 MHz Phone: +7 (7252) 945118 – Tower, 945153 – Air Traffic Manager, 945141 – Briefing office H24	Shymkent FIR	432534N 0672754E - 431800N 0682200E - 431932N 0683446E - 430659N 0693632E - 422000N 0705300E along border KAZAKHSTAN_KYRGYZSTAN - 421548N 0705642E along border KAZAKHSTAN_UZBEKISTAN - 430221N 0654313E - 432534N 0672754E	GND – 10000 FT ALT	Excluding the part of Shymkent FIR airspace, delegated to Tashkent APP, Tashkent ACC. Excluding the CTR and TMA Shymkent, CTR and TMA Turkistan.
TARAZ "Podkhod" HF – 4744 kHz HF alter. - 4664 kHz VHF – 122.1 MHz Phone: +7 (7262) 434995 H24	Shymkent FIR	452504N 0692427E - 450440N 0715506E - 441502N 0745425E - 434446N 0741052E - 431248N 0741934E along border KAZAKHSTAN_KYRGYZSTAN - 422000N 0705300E - 430659N 0693632E - 431932N 0683446E - 440138N 0684518E - 452504N 0692427E	GND – 10000 FT ALT	Excluding the part of Shymkent FIR airspace, delegated to Bishkek APP, Bishkek ACC. Including the part of Bishkek FIR airspace delegated to Taraz APP. Excluding the CTR and TMA Taraz, CTR and TMA Turkistan.
URALSK "Uralsk vyshka" VHF – 119.7 MHz VHF alter. - 124.6 MHz HF - 5520 kHz Phone: +7 (7112) 509455 According to the regulations	Aktobe FIR	N504318 E0551552 - N485930 E0522738 - N490704 E0470207 - along border KAZAKHSTAN_RUSSIA - N504318 E0551552	GND – 10000 FT ALT	Excluding the TMA and CTR Uralsk.

FIC Call sign FREQ Phone Hours of operation	ATS region	Lateral limits	Vertical limits	Remark
1	2	3	4	5
UST-KAMENOGORSK "Ust-Kamenogorsk vyshka" HF – 4672 kHz HF alter. – 4800 kHz VHF – 130.1 MHz Phone: +7 (7232) 293418 - Tower, 778595 - Air Traffic Manager According to the regulations	Almaty FIR	490654N 0871718E along border KAZAKHSTAN_CHINA - 453205N 0821649E - 462000N 0812000E - 461942N 0802000E - 475508N 0802710E - 484600N 0805300E - 493500N 0810300E - 503130N 0813218E - 504706N 0815242E along border KAZAKHSTAN_RUSSIA - 490654N 0871718E	GND – 10000 FT ALT In the areas with terrain higher than 10000 FT ALT – upper limit of FIC is equal to AMA value.	Excluding the TMA1, TMA2 and CTR of Ust- Kamenogorsk aerodrome. Excluding the TMA and CTR of Zaisan aerodrome. Excluding the TMA and CTR of Urdzhar aerodrome. Excluding the TMA of Usharal aerodrome. For aerodrome Ayaguz take information from the briefing. Part of the airspace of TMA and CTR of Satpayev aerodrome has been withdrawn.
ZHEZKAZGAN "Zhezkazgan vyshka" HF – 4850 kHz VHF – 127.1 MHz Phone: +7 (7102) 725118, 764248 According to the regulations	Astana FIR	494400N 0683100E - 494100N 0693200E - 483700N 0704200E - 480000N 0714900E - 450440N 0715506E - 452504N 0692427E - 471135N 0643220E - 483738N 0624054E - 485848N 0654236E - 491230N 0663936E - 493036N 0670430E - 494400N 0683100E	GND – 10000 FT ALT	Excluding the TMA and CTR Zhezkazgan. Excluding the TMA and CTR Arkalyk.

Map of Flight information centers (FIC) of the Republic of Kazakhstan

Route Designator {RNP Type}	[Route Usage Notes]								
Significant Point Name	Significant Point Coordinates								Remarks
{RNP Type}	Track MAG	Dist	(COP)	Upper limit / Lower limit	Minimum flight altitude	Lateral limits (KM)	FL series		Controlling unit {Airspace class} Remarks
	↓ / ↑						↓	↑	
W324									
▲ AKTAU DVOR/DME (AKT)	435220N 0510352E								
	003° 182°	56.7 NM		FL 510 FL 120	2900 FT ALT		Odd	Even	AKTOBE ACC 134,3 MHZ AKTAU TOWER 120.7 MHZ {C}
△ PIRIM	444808N 0511741E								
	001° 180°	53.2 NM		FL 510 FL 120	1100 FT ALT		Odd	Even	AKTOBE ACC 134,3 MHZ {C}
▲ KOLIB	454047N 0512848E								
	360° 180°	45.7 NM		FL 510 FL 120	1000 FT ALT		Odd	Even	AKTOBE ACC 130,9 MHZ {C}
△ NIKNA	462557N 0513838E								
	360° 180°	43.2 NM		FL 510 FL 120	1400 FT ALT		Odd	Even	AKTOBE ACC 130,9 MHZ ATYRAU TOWER 118.1 MHZ {C}
▲ ATYRAU DVOR/DME (ATR)	470838N 0514805E								
	349° 168°	43.2 NM		FL 510 FL 120	1600 FT ALT		Even	Odd	AKTOBE ACC 130,9 MHZ ATYRAU TOWER 118.1 MHZ {C}
△ OLAPU	475146N 0514531E								
	348° 168°	69.9 NM		FL 510 FL 120	1700 FT ALT		Even	Odd	AKTOBE ACC 130,9 MHZ {C}
▲ BAGIR	490131N 0514106E								
	348° 167°	84.3 NM		FL 510 FL 120	1400 FT ALT		Even	Odd	AKTOBE ACC 131.4 MHZ {C}
△ DOKUS	502539N 0513528E								
	347° 167°	43.4 NM		FL 510 FL 120	1400 FT ALT		Even	Odd	AKTOBE ACC 131.4 MHZ URALSK TOWER 119.7 MHZ {C}
▲ URALSK DVOR/DME (URL)	510855N 0513238E								

Route Designator {RNP Type}	[Route Usage Notes]								
Significant Point Name	Significant Point Coordinates							Remarks	
{RNP Type}	Track MAG	Dist	{COP}	Upper limit / Lower limit	Minimum flight altitude	Lateral limits (KM)	FL series		Controlling unit {Airspace class} Remarks
	↓ / ↑						↓	↑	
W332									

Route Designator {RNP Type}	[Route Usage Notes]								
Significant Point Name	Significant Point Coordinates								Remarks
{RNP Type}	Track MAG	Dist	(COP)	Upper limit / Lower limit	Minimum flight altitude	Lateral limits (KM)	FL series		Controlling unit {Airspace class} Remarks
	↓ / ↑						↓	↑	
▲ KYZYLORDA DVOR/DME (KZO)	444145N 0653349E								
	020° 200°	44.3 NM		FL 510 FL 120			Odd	Even	SHYMKENT ACC 127,3MHZ KYZYLORDA TOWER 120.9 {C}
△ AMREK	452109N 0660226E								
	018° 198°	70.9 NM		FL 510 FL 120			Odd	Even	SHYMKENT ACC 127,3MHZ {C}
▲ GORVA (FIR BDRY)	462455N 0664655E								
	019° 199°	44.7 NM		FL 510 FL 120			Odd	Even	ASTANA ACC 132.5MHZ {C}
△ DITSO	470443N 0671637E								
	019° 199°	43.4 NM		FL 510 FL 120			Odd	Even	ASTANA ACC 132.5MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
▲ ZHEZKAZGA N DVOR/DME (DZG)	474317N 0674542E								
	340° 160°	43.1 NM		FL 510 FL 120			Even	Odd	ASTANA ACC 132.5MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
△ BEDOR	482529N 0673251E								
	341° 160°	94.2 NM		FL 510 FL 120			Even	Odd	ASTANA ACC 132.5MHZ {C}
▲ EDETO	495808N 0670732E								
	339° 159°	21.3 NM		FL 510 FL 120			Even	Odd	ASTANA ACC 133.1MHZ {C}
▲ ARKALYK DVOR/DME (ARK)	501904N 0670118E								
	314° 132°	36.7 NM		FL 510 FL 120			Even	Odd	ASTANA ACC 133.1MHZ ARKALYK TOWER 134.3 MHZ {C}
△ TOMZU	504824N 0662645E								
	314° 131°	118.0 NM		FL 510 FL 120			Even	Odd	ASTANA ACC 133.1MHZ {C}
△ UNIBE	522328N 0643445E								
	311° 130°	60.5 NM		FL 510 FL 120			Even	Odd	ASTANA ACC 133.1MHZ KOSTANAY TOWER 129.3 MHZ {C}
▲ KOSTANAY DVOR/DME (KST)	531113N 0633346E								

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)	② For distribution, see AIP China					
▲ EKTOb	501548N 0571055E AKB 360.0° 0.0 NM (700 FT)					
	086° 267°	44.1 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 128.0 MHZ {C}
△ OMITO	501033N 0581909E AKB 086.0° 44.1 NM (700 FT)					
	086° 268°	68.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
△ KESOT	500111N 0600343E AKB 088.0° 112.1 NM (700 FT)					
	088° 270°	96.5 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ Radar coverage limited between FL120 and FL200. {C}
▲ BEKOR (FIR BDRY)	494513N 0623050E ARK 247.0° 177.6 NM (1300 FT)					
	090° 271°	38.5 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ In case of possible VHF radio communication failure at FL120– FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kostanay Sector” on frequencies 4680 kHz and 4815 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL120 and FL170. {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
△ 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 In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kostanay Sector” on frequencies 4680 kHz and 4815 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ ARBIM	492045N 0645739E ARK 223.0° 99.1 NM (1300 FT)					
	098° 279°	79.9 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ UMDEM	485611N 0665322E DZG 325.0° 80.9 NM (1300 FT)					
	099° 280°	22.0 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ GORIM	484905N 0672456E DZG 339.0° 67.3 NM (1300 FT)					
	100° 281°	38.2 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ AKITU	483624N 0681921E DZG 014.0° 57.7 NM (1300 FT)					
	101° 281°	12.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ MAKUT	483217N 0683632E DZG 026.0° 59.7 NM (1300 FT)					
	101° 282°	33.9 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	
△ DITKI	482034N 0692417E DZG 052.0° 76.0 NM (1300 FT)				
	102° 283°	60.1 NM	FL 510 FL 120	Odd	Even
▲ KUROL	475900N 0704800E DZG 075.0° 123.8 NM (1300 FT)				ASTANA ACC 132.5 MHZ {C}
	101° 282°	44.2 NM	FL 510 FL 120	Odd	Even
					ASTANA ACC 132.5 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Zhezkazgan Tower” on frequencies 4850 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited at FL120. {C}
▲ UNABO (FIR BDRY)	474352N 0714935E KRG 198.0° 132.6 NM (1800 FT)				
	102° 284°	61.9 NM	FL 510 FL 120	Odd	Even
▲ TOGDI	472143N 0731457E BLH 284.0° 76.7 NM (1400 FT)				
	104° 285°	33.4 NM	FL 510 FL 120	Odd	Even
△ NEPLA	470920N 0740031E BLH 285.0° 43.2 NM (1400 FT)				
	105° 286°	43.3 NM	FL 510 FL 120	Odd	Even
▲ OGLAB	465259N 0745902E BLH 360.0° 0.0 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
				↓	↑	
	101° 282°	61.4 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 125.5 MHZ BALKHASH TOWER 128.0 MHZ {C}
△ SUBAN	463355N 0762353E BLH 102.0° 61.4 NM (1400 FT)					
	102° 282°	14.4 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 125.5 MHZ {C}
▲ NIPAL	462919N 0764342E BLH 102.0° 75.8 NM (1400 FT)					
	102° 283°	39.5 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ {C}
▲ GENGA	461625N 0773739E TDK 328.0° 77.8 NM (2000 FT)					
	098° 280°	94.7 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ {C}
▲ RIKPI	455225N 0794910E TDK 047.0° 74.6 NM (2000 FT)					
	100° 280°	14.6 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ Radar coverage limited at FL120. {C}
▲ ALILA	454830N 0800916E TDK 055.0° 84.1 NM (2000 FT)					
	100° 281°	37.8 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ Radar coverage limited between FL120 and FL160. {C}
▲ OGADO	453804N 0810107E JRK 024.0° 95.7 NM (2600 FT)					
	102° 283°	70.7 NM	FL 510 FL 160	Odd	Even	ALMATY ACC 133.1 MHZ Radar coverage limited between FL120 and FL210. {C}
▲ BAMAN (FIR BDRY)	451700N 0823700E JRK 057.0° 130.2 NM (2600 FT)					For continuation, see AIP China

Route designator		[Route Usage Notes]					
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks	
				↓	↑		
L51 (RNAV 5)							
▲ LOKOZ		470838N 0514805E ATR 360.0° 0.0 NM (0 FT)					
	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 ATR 073.0° 43.2 NM (0 FT)					
	073° 254°	56.6 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}	
△ EPOLI		472234N 0541316E ATR 074.0° 99.9 NM (0 FT)					
	073° 253°	31.8 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}	
△ LANIN		472659N 0545937E BNU 349.0° 126.8 NM (0 FT)					
	074° 255°	26.7 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Atyrau Tower” on frequencies 4688 kHz and 4830 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}	
△ ODPUT		473004N 0553846E BNU 001.0° 131.5 NM (0 FT)					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	075° 255°	29.2 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Atyrau Tower” on frequencies 4688 kHz and 4830 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
▲ LUKET	473310N 0562135E BNU 013.0° 142.4 NM (0 FT)					
	075° 256°	51.9 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ Radar coverage limited between FL 120 and FL 200. {C}
△ UDATO	473801N 0573755E AKB 163.0° 158.9 NM (700 FT)					
	076° 257°	64.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ Radar coverage limited between FL 120 and FL 170. {C}
▲ RUGUS	474250N 0591219E ARL 289.0° 112.1 NM (300 FT)					
	078° 259°	37.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119 MHZ {C}
△ ARSAN	474436N 0600738E ARL 303.0° 82.1 NM (300 FT)					
	078° 260°	117.1 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119 MHZ {C}
△ ABIGU	474742N 0630108E ARL 036.0° 81.6 NM (300 FT)					
	081° 261°	30.6 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119 MHZ {C}

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ ULRIP (FIR BDRY)	474743N 0634635E ARL 049.0° 105.6 NM (300 FT)					
	081° 262°	45.8 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Zhezkazgan Tower” on frequencies 4850 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ SUBOL	474716N 0645433E DZG 262.0° 115.5 NM (1300 FT)					
	082° 264°	72.3 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ ARMIK	474512N 0664137E DZG 263.0° 43.3 NM (1300 FT)					
	084° 265°	43.3 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
▲ ALZIS	474317N 0674542E DZG 360.0° 0.0 NM (1300 FT)					
	052° 232°	43.0 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
△ ADRIK	480432N 0684119E DZG 051.8° 43.0 NM (1300 FT)					
	052° 232°	32.9 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ DITKI	482034N 0692417E DZG 052.0° 76.0 NM (1300 FT)					
	053° 233°	48.7 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
▲ INTAL	484345N 0702839E DZG 053.0° 124.6 NM (1300 FT)				
	053° 235°	80.9 NM	FL 510 FL 120	Odd Even	ASTANA ACC 124.1 MHZ {C}
△ DOZIN	492040N 0721800E KRG 235.0° 46.8 NM (1800 FT)				
	055° 236°	46.8 NM	FL 510 FL 120	Odd Even	ASTANA ACC 124.1 MHZ KARAGANDA TOWER 122.0 MHZ {C}
▲ ARNIR	494114N 0732226E KRG 360.0° 0.0 NM (1800 FT)				
	033° 213°	44.6 NM	FL 510 FL 120	Odd Even	ASTANA ACC 124.1 MHZ KARAGANDA TOWER 122.0 MHZ {C}
△ UNLOM	501425N 0740834E KRG 033.2° 44.6 NM (1800 FT)				
	033° 213°	14.4 NM	FL 510 FL 120	Odd Even	ASTANA ACC 124.1 MHZ {C}
▲ KANZI	502504N 0742336E KRG 034.0° 59.0 NM (1800 FT)				
	033° 214°	71.7 NM	FL 510 FL 120	Odd Even	ASTANA ACC 132.8 MHZ {C}
△ ROHIL	511738N 0754034E PVL 215.6° 76.3 NM (500 FT)				
	034° 215°	76.3 NM	FL 510 FL 120	Odd Even	ASTANA ACC 132.8 MHZ PAVLODAR TOWER 119.8 MHZ {C}
▲ KANET	521235N 0770542E PVL 360.0° 0.0 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
				↓	↑	
L86 (RNAV 5)						
▲ MIMRI	433808N 0634822E KZO 222.0° 99.0 NM (500 FT)					
	017° 197°	38.4 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}
△ ERTUZ	441307N 0641019E KZO 238.0° 66.3 NM (500 FT)					
	017° 197°	52.6 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}
△ AGMUR	450056N 0644106E KZO 289.0° 42.1 NM (500 FT)					
	018° 198°	114.8 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}
▲ LUGER (FIR BDRY)	464426N 0655200E DZG 223.0° 97.3 NM (1300 FT)					
	018° 198°	93.5 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ BETIK	480807N 0665309E DZG 296.0° 43.2 NM (1300 FT)					
	018° 198°	46.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ GORIM	484905N 0672456E DZG 339.0° 67.3 NM (1300 FT)					
	019° 199°	66.2 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
▲ AKELI	494707N 0681322E ARK 115.0° 56.4 NM (1300 FT)					
	019° 199°	13.8 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ {C}
▲ ABULA	495910N 0682343E ARK 101.0° 56.6 NM (1300 FT)					

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	
	019° 199°	34.4 NM	FL 510 FL 120	Odd	Even
▲ ABENU	502909N 0684952E ARK 072.0° 70.2 NM (1300 FT)				ASTANA ACC 124.1 MHZ {C}
	019° 201°	256.8 NM	FL 510 FL 120	Odd	Even
▲ 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	
				↓	↑		
L135 (RNAV 5)		[S] For continuation, see AIP Russia					
▲ MAMIR (FIR BDRY)		425438N 0763642E ATA 211.8° 34.8 NM (2200 FT)					
	032° 212°	22.0 NM	FL 510 FL 200	Odd	Even	ALMATY ACC 131.4 MHZ {C}	
△ LAKEL		431216N 0765439E ATA 211.7° 12.8 NM (2200 FT)					
	031° 211°	12.8 NM	FL 510 FL 190	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}	
△ IZIMA		432236N 0770503E ATA 332.2° 0.1 NM (2200 FT)					
	051° 231°	22.3 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}	
△ TIRBA		433456N 0773031E ATA 050.8° 22.3 NM (2200 FT)					
	018° 198°	34.0 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}	

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
▲ GAKMA	440610N 0774907E ATA 030.8° 54.0 NM (2200 FT)				
	018° 198°	11.3 NM	FL 510 FL 120	Odd Even	ALMATY ACC 133.1 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ DESOK	441629N 0775521E TDK 198.0° 54.4 NM (2000 FT)				
	018° 198°	21.4 NM	FL 510 FL 120	Odd Even	ALMATY ACC 133.1 MHZ {C}
△ IDILI	443608N 0780716E TDK 198.0° 33.0 NM (2000 FT)				
	018° 198°	33.0 NM	FL 510 FL 120	Odd Even	ALMATY ACC 133.1 MHZ TALDYKORGAN TOWER 127.3 MHZ {C}
▲ KOKZA	450622N 0782548E TDK 360.0° 0.0 NM (2000 FT)				
	021° 201°	35.2 NM	FL 510 FL 120	Odd Even	ALMATY ACC 133.1 MHZ TALDYKORGAN TOWER 127.3 MHZ {C}
△ FULSA	453758N 0784751E TDK 021.0° 35.2 NM (2000 FT)				
	021° 201°	45.7 NM	FL 510 FL 120	Odd Even	ALMATY ACC 133.1 MHZ {C}
▲ MAKEK	461854N 0791700E TDK 021.0° 80.9 NM (2000 FT)				
	020° 200°	54.8 NM	FL 510 FL 120	Odd Even	ALMATY ACC 132.1 MHZ {C}
△ GOMAL	470809N 0795150E AGZ 200.0° 53.4 NM (2200 FT)				
	020° 201°	53.4 NM	FL 510 FL 120	Odd Even	ALMATY ACC 132.1 MHZ {C}
▲ KABIZ	475552N 0802659E AGZ 360.0° 0.0 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
				↓	↑	
	026° 206°	106.8 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
△ LASNA	492602N 0815315E UKM 207.0° 43.3 NM (1000 FT)					
	027° 208°	43.3 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ UST-KAMENOGORSK TOWER 130.1 MHZ {C}
▲ RIMPU	500158N 0823031E UKM 360.0° 0.0 NM (1000 FT)					
	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 UKM 029.0° 43.0 NM (1000 FT)					
	030° 210°	25.6 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}
▲ BOKIS (FIR BDRY)	505736N 0833312E UKM 030.0° 68.6 NM (1000 FT)					For continuation, see AIP Russia

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

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
▲ BASPI	433257N 0791501E JRK 212.0° 51.0 NM (2600 FT)				

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
L139 (RNAV 5)	(S) Before, see AIP Uzbekistan				
▲ TULGA (FIR BDRY)	415347N 0701204E SMK 124.0° 44.3 NM (1400 FT)				Before, see AIP Uzbekistan
	307° 127°	23.5 NM	FL 510 FL 160	Even Odd	SHYMKENT ACC 132.7 MHZ {C}
△ ADESA	420940N 0694854E SMK 121.0° 20.9 NM (1400 FT)				
	302° 122°	20.9 NM	FL 510 FL 120	Even Odd	SHYMKENT ACC 132.7 MHZ SHYMKENT TOWER 125.9 MHZ {C}
▲ FODIK	422220N 0692631E SMK 360.0° 0.0 NM (1400 FT)				
	316° 135°	30.0 NM	FL 510 FL 120	Even Odd	SHYMKENT ACC 132.7 MHZ SHYMKENT TOWER 125.9 MHZ {C}
△ RUSEK	424549N 0690116E SMK 316.0° 30.0 NM (1400 FT)				
	312° 132°	10.5 NM	FL 510 FL 120	Even Odd	SHYMKENT ACC 132.7 MHZ SHYMKENT TOWER 125.9 MHZ {C}
▲ MAGOL	425338N 0685144E TRK 148.0° 28.7 NM (1000 FT)				
	312° 132°	32.7 NM	FL 510 FL 120	Even Odd	SHYMKENT ACC 132.7 MHZ TURKISTAN TOWER 131.3 MHZ {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
▲ GENDI	431800N 0682200E TRK 254.0° 9.4 NM (1000 FT)				
	300° 119°	24.3 NM	FL 510 FL 120	Even Odd	SHYMKENT ACC 127.3 MHZ TURKISTAN TOWER 131.3 MHZ {C}
▲ KUDUG	433216N 0675457E TRK 287.0° 31.7 NM (1000 FT)				
	299° 119°	22.7 NM	FL 510 FL 120	Even Odd	SHYMKENT ACC 127.3 MHZ TURKISTAN TOWER 131.3 MHZ {C}
△ GIMRI	434530N 0672931E TRK 292.0° 54.1 NM (1000 FT)				
	299° 118°	56.3 NM	FL 510 FL 120	Even Odd	SHYMKENT ACC 127.3 MHZ {C}
△ GITIM	441752N 0662540E KZO 116.0° 44.1 NM (500 FT)				
	296° 116°	44.1 NM	FL 510 FL 120	Even Odd	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}
▲ ORTEG	444145N 0653349E KZO 360.0° 0.0 NM (500 FT)				
	291° 110°	28.5 NM	FL 510 FL 120	Even Odd	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}
△ BUDET	445507N 0645824E KZO 290.0° 28.5 NM (500 FT)				
	288° 108°	13.6 NM	FL 510 FL 120	Even Odd	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}
△ AGMUR	450056N 0644106E KZO 289.0° 42.1 NM (500 FT)				
	288° 105°	118.6 NM	FL 510 FL 120	Even Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ INKUM	454952N 0620739E ARL 151.0° 63.3 NM (300 FT)				

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	276° 096°	30.9 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ SANUR (FIR BDRY)	455717N 0612446E ARL 180.0° 53.0 NM (300 FT)					
	276° 094°	72.5 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ {C}
▲ ABDUN	461337N 0594316E ARL 236.0° 86.4 NM (300 FT)					
	274° 093°	40.7 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ {C}
△ NINAG	462208N 0584556E ARL 249.0° 121.4 NM (300 FT)					
	273° 092°	87.9 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ Radar coverage limited at FL120. {C}
▲ TISRA	463851N 0564100E BNU 032.0° 102.1 NM (0 FT)					
	272° 090°	58.4 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 130.9 MHZ {C}
△ PEMOL	464841N 0551720E BNU 356.0° 88.6 NM (0 FT)					
	270° 090°	29.8 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 130.9 MHZ {C}
△ RIKRI	465319N 0543423E BNU 338.0° 95.7 NM (0 FT)					
	270° 089°	30.9 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 130.9 MHZ {C}
△ LEPSI	465750N 0534950E ATR 089.0° 83.9 NM (0 FT)					
	269° 089°	40.7 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 130.9 MHZ {C}
△ GOGDI	470320N 0525055E ATR 088.0° 43.2 NM (0 FT)					

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	269° 088°	43.3 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 130.9 MHZ ATYRAU TOWER 118.1 MHZ {C}
▲ LOKOZ	470838N 0514805E ATR 360.0° 0.0 NM (0 FT)					

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L143 (RNAV 5)						
▲ SULET (FIR BDRY)	430602N 0743503E ATA 257.2° 110.9 NM (2200 FT)					Before, see AIP Kyrgyzstan
	050° 230°	28.6 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ {C}
▲ UML0D	432218N 0750715E ATA 265.4° 85.9 NM (2200 FT)					
	043° 223°	5.8 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ {C}
△ BINRI	432607N 0751309E ATA 268.1° 81.7 NM (2200 FT)					
	043° 223°	18.1 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ {C}
△ TIPSA	433809N 0753149E ATA 278.4° 69.7 NM (2200 FT)					
	054° 235°	23.8 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ REGMU	435005N 0760012E ATA 295.6° 54.6 NM (2200 FT)					
	055° 235°	16.6 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
▲ ADABA	435820N 0762009E ATA 312.8° 48.5 NM (2200 FT)				
	016° 196°	23.7 NM	FL 510 FL 120	Odd Even	ALMATY ACC 133.1 MHZ ALMATY APPROACH 124.8 MHZ {C}
▲ ETEDA	442024N 0763206E ATA 332.6° 62.6 NM (2200 FT)				
	016° 196°	89.3 NM	FL 510 FL 120	Odd Even	ALMATY ACC 133.1 MHZ {C}
△ AKIRA	454323N 0771829E TDK 302.0° 60.2 NM (2000 FT)				
	016° 196°	35.6 NM	FL 510 FL 120	Odd Even	ALMATY ACC 133.1 MHZ {C}
▲ GENGA	461625N 0773739E TDK 328.0° 77.8 NM (2000 FT)				
	016° 196°	24.9 NM	FL 510 FL 120	Odd Even	ALMATY ACC 133.1 MHZ {C}
▲ AGNAT	463927N 0775115E TDK 340.0° 96.2 NM (2000 FT)				
	016° 196°	59.3 NM	FL 510 FL 120	Odd Even	ALMATY ACC 132.1 MHZ {C}
△ IBDAS	473412N 0782432E AGZ 248.0° 85.4 NM (2200 FT)				
	016° 196°	51.2 NM	FL 510 FL 120	Odd Even	ALMATY ACC 132.1 MHZ {C}
△ OSNER	482119N 0785409E AGZ 286.0° 67.2 NM (2200 FT)				
	016° 197°	85.1 NM	FL 510 FL 120	Odd Even	ALMATY ACC 132.1 MHZ {C}
△ UVTOK	493924N 0794524E SEM 197.0° 45.7 NM (700 FT)				
	017° 197°	45.6 NM	FL 510 FL 120	Odd Even	ALMATY ACC 132.1 MHZ SEMEY TOWER 128.0 MHZ {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
▲ SOMIP	502106N 0801402E SEM 281.0° 0.4 NM (700 FT)				
	019° 199°	58.8 NM	FL 510 FL 120	Odd Even	ALMATY ACC 132.1 MHZ SEMEY TOWER 128.0 MHZ {C}
▲ ELSUT (FIR BDRY)	511342N 0805506E SEM 018.0° 58.7 NM (700 FT)				For continuation, see AIP Russia

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

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
L145 (RNAV 5)	(1) Before, see AIP Kyrgyzstan (2) For continuation, see AIP Russia				
▲ DEMAS (FIR BDRY)	424732N 0712008E TAR 147.0° 5.3 NM (2200 FT)				Before, see AIP Kyrgyzstan
	327° 147°	5.3 NM	FL 510 FL 120	Even Odd	SHYMKENT ACC 132.7 MHZ TARAZ APPROACH 122.1 MHZ {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑		Controlling unit {Airspace class} Remarks
▲ KIZMI	425214N 0711654E TAR 360.0° 0.0 NM (2200 FT)					
	329° 148°	42.9 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ TARAZ APPROACH 122.1 MHZ {C}
▲ ARBOL	433055N 0705137E TAR 329.0° 42.9 NM (2200 FT)					
	328° 147°	44.9 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
△ GAMBU	441106N 0702401E TAR 328.0° 87.7 NM (2200 FT)					
	327° 146°	7.4 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
△ INLIG	441743N 0701919E TAR 328.0° 94.9 NM (2200 FT)					
	326° 145°	75.0 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Approach” on frequencies 4744 kHz. - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
▲ MIRGA (FIR BDRY)	452416N 0693051E TRK 012.0° 131.1 NM (1000 FT)					

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	325° 145°	42.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Zhezkazgan Tower” on frequencies 4850 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ OBAMA	460212N 0690233E DZG 144.0° 114.0 NM (1300 FT)					
	326° 144°	70.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ ASLIK	470509N 0681542E DZG 143.0° 43.3 NM (1300 FT)					
	324° 143°	43.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
▲ ALZIS	474317N 0674542E DZG 360.0° 0.0 NM (1300 FT)					
	327° 146°	43.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
△ ADOKA	482224N 0671842E DZG 326.0° 43.1 NM (1300 FT)					
	325° 144°	37.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ UMDEM	485611N 0665322E DZG 325.0° 80.9 NM (1300 FT)					
	327° 146°	53.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ SUKUR	494431N 0661957E ARK 207.0° 43.7 NM (1300 FT)					

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	
	323° 143°	27.4 NM	FL 510 FL 120	Even	Odd
▲ BULOG	500854N 0660036E ARK 245.0° 40.3 NM (1300 FT)				ASTANA ACC 133.1 MHZ {C}
	324° 144°	14.0 NM	FL 510 FL 120	Even	Odd
▲ KUSOT	502128N 0655110E ARK 262.0° 45.0 NM (1300 FT)				ASTANA ACC 133.1 MHZ {C}
	324° 142°	92.4 NM	FL 510 FL 120	Even	Odd
△ KUSUM	514420N 0644639E KST 141.0° 97.8 NM (600 FT)				ASTANA ACC 133.1 MHZ {C}
	323° 142°	34.3 NM	FL 510 FL 120	Even	Odd
△ ARDIK	521459N 0642204E KST 140.0° 63.5 NM (600 FT)				ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}
	321° 140°	63.5 NM	FL 510 FL 120	Even	Odd
▲ EKSOZ	531113N 0633346E KST 360.0° 0.0 NM (600 FT)				ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}
	318° 137°	63.0 NM	FL 510 FL 120	Even	Odd
▲ 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
				↓	↑	
L147 (RNAV 5)	(2) Below, see AIP Kyrgistan					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑		Controlling unit {Airspace class} Remarks
▲ RODAM (FIR BDRY)	431348N 0741934E ATA 261.7° 121.2 NM (2200 FT)					Before, see AIP Kyrgyzstan
	313° 132°	27.5 NM	FL 510 FL 70	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
▲ BASAN	433420N 0735429E TAR 065.0° 122.7 NM (2200 FT)					
	311° 131°	10.2 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
▲ TOMGO	434146N 0734454E TAR 060.0° 118.9 NM (2200 FT)					
	301° 120°	41.9 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
△ INDAG	440635N 0725812E TAR 038.0° 104.8 NM (2200 FT)					
	300° 120°	19.7 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
△ RITMU	441806N 0723603E TAR 028.0° 103.3 NM (2200 FT)					
	300° 118°	98.8 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
▲ PABRI (FIR BDRY)	451455N 0704239E TAR 344.0° 144.8 NM (2200 FT)					
	298° 116°	84.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ In case of possible VHF radio communication failure at FL120– FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Zhezkazgan Tower” on frequencies 4850 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited at FL120. {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 DZG 144.0° 114.0 NM (1300 FT)							
	296° 115°	56.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}		
△ ELSEB	463234N 0675439E DZG 166.0° 71.0 NM (1300 FT)							
	294° 114°	11.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}		
△ TUTUL	463825N 0674057E DZG 174.0° 65.0 NM (1300 FT)							
	295° 114°	27.4 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}		
△ ATRUS	465302N 0670715E DZG 199.0° 56.7 NM (1300 FT)							
	293° 113°	7.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}		
△ GISIR	465704N 0665732E DZG 206.0° 56.7 NM (1300 FT)							
	294° 112°	53.5 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}		
△ TIROK	472456N 0655037E DZG 247.0° 80.1 NM (1300 FT)							
	292° 111°	44.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}		
△ SUBOL	474716N 0645433E DZG 262.0° 115.5 NM (1300 FT)							

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME 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° 109°	102.6 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Zhezkazgan Tower” on frequencies 4850 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
▲ GEDSA (FIR BDRY)	483738N 0624054E ARL 013.0° 116.4 NM (300 FT)					
	287° 105°	60.9 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
△ TOLAZ	490416N 0611752E ARL 345.9° 135.4 NM (300 FT)					
	286° 105°	23.2 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ Radar coverage limited at FL 120. {C}
△ MANAD	491421N 0604601E ARL 338.0° 148.9 NM (300 FT)					
	285° 104°	42.9 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ Radar coverage limited between FL 120 and FL 150. {C}
△ AGATU	493220N 0594622E AKB 104.0° 109.5 NM (700 FT)					
	284° 104°	24.6 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
△ ENETO	494223N 0591154E AKB 103.0° 84.9 NM (700 FT)					
	284° 103°	43.1 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
△ RIGDO	495937N 0581049E AKB 102.0° 41.8 NM (700 FT)				
	283° 102°	41.8 NM	FL 510 FL 120	Even Odd	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 128.0 MHZ {C}
▲ EKTOB	501548N 0571055E AKB 360.0° 0.0 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
L162 (RNAV 5)	(1) Before, see AIP Kazakhstan (2) For continuation, see AIP Russia				
▲ ODIVA (FIR BDRY)	423530N 0640848E KZO 198.0° 140.5 NM (500 FT)				Before, see AIP Uzbekistan
	330° 149°	60.0 NM	FL 510 FL 120	Even Odd	SHYMKENT ACC 127.3 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kyzylorda Tower” on frequencies 5335 kHz and 6672 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ NITNA	433032N 0633601E KZO 222.0° 110.8 NM (500 FT)				

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	329° 149°	10.0 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kyzylorda Tower” on frequencies 5335 kHz and 6672 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
▲ DIDOP	433941N 0633027E KZO 227.0° 108.3 NM (500 FT)					
	329° 149°	17.3 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ TIPEN	435532N 0632045E KZO 236.0° 106.1 NM (500 FT)					
	329° 149°	18.6 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ ZURGO	441233N 0631012E KZO 248.0° 106.9 NM (500 FT)					
	329° 148°	64.1 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ TUKNA	451058N 0623308E ARL 150.0° 106.1 NM (300 FT)					
	327° 147°	42.8 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ INKUM	454952N 0620739E ARL 151.0° 63.3 NM (300 FT)					
	329° 149°	27.3 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ NIRAN (FIR BDRY)	461504N 0615245E ARL 154.0° 36.1 NM (300 FT)					

Route designator			[Route Usage Notes]			
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit	FL series		Controlling unit {Airspace class} Remarks
			Lower limit	↓	↑	
	329° 148°	37.1 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ {C}
△ UZLOR	464915N 0613205E ARL 257.0° 3.4 NM (300 FT)					
	328° 147°	86.3 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ {C}
▲ ERUTA	480837N 0604210E ARL 326.0° 87.5 NM (300 FT)					
	327° 146°	72.1 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ Radar coverage limited between FL120 and FL140. {C}
△ INTER	491433N 0595813E AKB 107.6° 124.6 NM (700 FT)					
	326° 146°	19.4 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ Radar coverage limited at FL120. {C}
△ AGATU	493220N 0594622E AKB 104.0° 109.5 NM (700 FT)					
	325° 145°	15.5 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
△ TIMZO	494630N 0593634E AKB 095.6° 98.0 NM (700 FT)					
	325° 144°	60.7 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
▲ URUSU (FIR BDRY)	504142N 0585724E AKB 059.0° 72.8 NM (700 FT)					For continuation, see AIP Russia

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L163 (RNAV 5)	(1) Refer to AIP Kazakhstan (2) 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
▲ RODRO	411433N 0690034E SMK 190.0° 70.5 NM (1400 FT)					Before, see AIP Uzbekistan
	306° 126°	12.7 NM	FL 510 7000 FT ALT	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
▲ DODUR (FIR BDRY)	412300N 0684800E SMK 200.0° 65.9 NM (1400 FT)					
	320° 139°	47.4 NM	FL 510 7000 FT ALT	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
▲ MIKNO	420200N 0681200E SMK 243.0° 59.0 NM (1400 FT)					
	307° 125°	47.6 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
△ ROSIM	423415N 0672453E TRK 222.0° 68.4 NM (1000 FT)					
	306° 126°	38.0 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
▲ PAVEL	425947N 0664642E TRK 249.0° 81.5 NM (1000 FT)					
	306° 125°	18.9 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
▲ RILOK	431224N 0662729E TRK 258.0° 93.3 NM (1000 FT)					
	305° 124°	94.8 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ DILNA	441450N 0644911E KZO 222.0° 41.8 NM (500 FT)					
	304° 123°	11.6 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ BADAS	442221N 0643656E KZO 237.0° 45.1 NM (500 FT)					
	303° 123°	5.3 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}

Route designator		[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks	
				↓	↑		
△ ADREM	442548N 0643118E KZO 243.0° 47.5 NM (500 FT)						
	303° 122°	57.2 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}	
▲ UNITO	450238N 0632952E KZO 275.0° 90.6 NM (500 FT)						
	302° 120°	74.7 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}	
▲ INKUM	454952N 0620739E ARL 151.0° 63.3 NM (300 FT)						
	306° 126°	27.6 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}	
▲ ADUMI (FIR BDRY)	460903N 0613915E ARL 169.0° 40.5 NM (300 FT)						
	306° 123°	137.6 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ {C}	
▲ RUGUS	474250N 0591219E ARL 289.0° 112.1 NM (300 FT)						
	303° 121°	93.0 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}	
△ ERKIS	484421N 0572756E AKB 162.0° 92.0 NM (700 FT)						
	301° 118°	147.4 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}	
▲ SIVKO	501827N 0543349E AKB 260.0° 100.8 NM (700 FT)						
	300° 117°	130.4 NM	FL 510 FL 210	Even	Odd	AKTOBE ACC 131.4 MHZ {C}	
▲ BEKAS (FIR BDRY)	514029N 0515327E URL 011.0° 34.2 NM (200 FT)					For continuation, see AIP Russia	

Route designator		[Route Usage Notes]					
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks	
				↓	↑		
L165 (RNAV 5)		(1) Before, see AIP Uzbekistan (2) For continuation, see AIP Uzbekistan					
▲ AKALI (FIR BDRY)		440829N 0611937E ARL 175.0° 161.5 NM (300 FT)					Before, see AIP Uzbekistan
	011° 191°	17.2 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kyzylorda Tower” on frequencies 5335 kHz and 6672 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL120 and FL130. {C}	
△ EKNIZ		442452N 0612711E ARL 174.1° 144.8 NM (300 FT)					
	011° 191°	54.7 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kyzylorda Tower” on frequencies 5335 kHz and 6672 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}	
△ OLINA		451645N 0615140E ARL 165.0° 93.4 NM (300 FT)					
	011° 190°	35.0 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}	

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑		Controlling unit {Airspace class} Remarks
▲ INKUM	454952N 0620739E ARL 151.0° 63.3 NM (300 FT)					
	359° 179°	33.4 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ RESBA (FIR BDRY)	462255N 0621359E ARL 128.0° 36.8 NM (300 FT)					
	359° 178°	136.0 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ {C}
▲ GEDSA (FIR BDRY)	483738N 0624054E ARL 013.0° 116.4 NM (300 FT)					
	357° 176°	27.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ Radar coverage limited at FL120. {C}
△ LASMU	490432N 0624534E ARL 009.7° 142.7 NM (300 FT)					
	356° 176°	30.5 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ Radar coverage limited between FL130 and FL180. {C}
△ DILIR	493452N 0625056E ARK 243.0° 167.6 NM (1300 FT)					
	356° 176°	28.2 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ Radar coverage limited between FL120 and FL170. {C}
▲ GEMBO	500256N 0625600E ARK 252.0° 158.5 NM (1300 FT)					
	356° 176°	20.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ Radar coverage limited between FL120 and FL150. {C}
△ EMBEK	502333N 0625947E ARK 263.0° 154.8 NM (1300 FT)					

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	356° 176°	44.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to:- establish communication via other aircraft;- use HF radio to relay messages through “Kostanay Sector” on frequencies 4680 kHz and 4815 kHz (as a backup), in accordance with ATC unit operational procedures;- if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL120 and FL140. {C}
△ GUMGA	510752N 0630806E KST 175.0° 124.7 NM (600 FT)					
	356° 175°	65.9 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ BUDER	521310N 0632052E KST 176.0° 58.6 NM (600 FT)					
	356° 176°	58.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}
▲ EKSOZ	531113N 0633346E KST 360.0° 0.0 NM (600 FT)					
	008° 189°	73.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}
▲ NELTI (FIR BDRY)	541942N 0641630E KST 008.0° 73.1 NM (600 FT)					For continuation, see AIP 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
				↓	↑	
L170 (RNAV 5)						

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

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
L728 (RNAV 5)					
▲ OGTOL (FIR BDRY)	424905N 0733002E TAR 087.0° 98.0 NM (2200 FT)				
	272° 091°	12.2 NM	FL 510 FL 120	Even Odd	SHYMKENT ACC 132.7 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Approach” on frequencies 4744 kHz. - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL120 and FL150. {C}
△ PILEL	425035N 0731336E TAR 085.0° 85.9 NM (2200 FT)				
	271° 090°	62.0 NM	FL 510 FL 120	Even Odd	SHYMKENT ACC 132.7 MHZ {C}
△ GERPU	425739N 0714951E TAR 072.0° 24.8 NM (2200 FT)				

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

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

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

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L855 (RNAV 5)		② For identification, see AIP Abbreviations				
△ TIPSA		433809N 0753149E ATA 278.4° 69.7 NM (2200 FT)				
	278° 097°	54.4 NM	FL 510 FL 150	Even	Odd	ALMATY ACC 131.4 MHZ {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑		Controlling unit {Airspace class} Remarks
▲ ELENÜ (FIR BDRY)	435017N 0741838E ATA 278.8° 124.1 NM (2200 FT)					
	270° 087°	105.8 NM	FL 510 FL 150	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
△ RISAS	435854N 0715247E TAR 016.0° 71.6 NM (2200 FT)					
	275° 094°	39.4 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
△ KUGIR	440625N 0705906E TAR 344.0° 75.3 NM (2200 FT)					
	274° 094°	25.7 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
△ GAMBU	441106N 0702401E TAR 328.0° 87.7 NM (2200 FT)					
	274° 093°	65.1 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
▲ TUROK	442214N 0685447E TRK 007.0° 64.3 NM (1000 FT)					
	273° 092°	30.6 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ REMOL	442704N 0681238E TRK 340.0° 69.4 NM (1000 FT)					
	272° 091°	29.1 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ LUKUR	443112N 0673226E TRK 321.0° 84.6 NM (1000 FT)					
	271° 091°	40.8 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ DIKAM	443650N 0663555E KZO 089.0° 44.6 NM (500 FT)					
	270° 089°	44.6 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑		Controlling unit {Airspace class} Remarks
▲ ORTEG	444145N 0653349E KZO 360.0° 0.0 NM (500 FT)					
	238° 057°	45.1 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}
△ BADAS	442221N 0643656E KZO 237.0° 45.1 NM (500 FT)					
	237° 057°	21.2 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ ERTUZ	441307N 0641019E KZO 238.0° 66.3 NM (500 FT)					
	237° 056°	39.8 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ TIPEN	435532N 0632045E KZO 236.0° 106.1 NM (500 FT)					
	236° 056°	25.0 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ ADAKA	434416N 0624955E KZO 236.0° 131.1 NM (500 FT)					
	236° 056°	36.9 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ In case of possible VHF radio communication failure at FL120– FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kyzylorda Tower” on frequencies 5335 kHz and 6672 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL120 and FL130. {C}
▲ TIGTA (FIR BDRY)	432728N 0620446E KZO 235.0° 168.0 NM (500 FT)					For continuation, see AIP Uzbekistan

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L864 (RNAV 5)						
▲ ITAKA (FIR BDRY)	435224N 0493000E AKT 262.0° 67.9 NM (100 FT)					
	020°	60.7 NM	FL 510 FL 210	Odd		AKTOBE ACC 134.3 MHZ {C}
△ ATNUR	444559N 0500948E AKT 316.0° 66.2 NM (100 FT)					
	349°	65.3 NM	FL 510 FL 220	Even		AKTOBE ACC 134.3 MHZ {C}
▲ URABU	455108N 0500407E ATR 214.4° 105.7 NM (0 FT)					
	348°	45.5 NM	FL 510 FL 220	Even		AKTOBE ACC 130.9 MHZ {C}
△ DIMPA	463633N 0495959E ATR 238.2° 80.8 NM (0 FT)					
	347°	149.0 NM	FL 510 FL 220	Even		AKTOBE ACC 130.9 MHZ {C}
▲ TOZIS	490511N 0494538E URL 198.7° 141.7 NM (200 FT)					
	346°	121.9 NM	FL 510 FL 220	Even		AKTOBE ACC 131.4 MHZ {C}
▲ POMNI (FIR BDRY)	510638N 0493240E URL 258.0° 75.6 NM (200 FT)					

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
↓				↑		
L985 (RNAV 5)	(1) Refer to AIP Uzbekistan (2) 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
				↓	↑	
▲ AKALI (FIR BDRY)	440829N 0611937E ARL 175.0° 161.5 NM (300 FT)					Before, see AIP Uzbekistan
	358° 178°	45.5 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kyzylorda Tower” on frequencies 5335 kHz and 6672 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ LATNU	445345N 0612553E ARL 175.0° 116.1 NM (300 FT)					
	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°	51.8 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
△ AGLAL	491642N 0615044E ARL 354.7° 147.5 NM (300 FT)					

Route designator		[Route Usage Notes]					
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks	
				↓	↑		
	353° 172°	84.0 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ Radar coverage limited between FL120 and FL210. {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)		(1) Before, see AIP Russia (2) For continuation, see AIP Russia				
▲ OBATA (FIR BDRY)		462130N 0491148E ATR 236.0° 117.4 NM (0 FT)				Before, see AIP Russia
	057° 237°	36.5 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
△ DIMPA		463633N 0495959E ATR 238.2° 80.8 NM (0 FT)				
	057° 238°	37.7 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
△ TUGLA		465142N 0505006E ATR 237.0° 43.2 NM (0 FT)				
	058° 239°	43.2 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ ATYRAU TOWER 118.1 MHZ {C}

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
↓				↑		
▲ LOKOZ	470838N 0514805E ATR 360.0° 0.0 NM (0 FT)					
	059° 239°	43.2 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ ATYRAU TOWER 118.1 MHZ {C}
△ GISTO	472457N 0524654E ATR 059.0° 43.2 NM (0 FT)					
	059° 240°	86.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
△ KODUM	475556N 0544537E ATR 061.0° 129.2 NM (0 FT)					
	048° 229°	42.8 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Atyrau Tower” on frequencies 4688 kHz and 4830 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL120 and FL150. {C}
▲ ALABA	481845N 0553938E AKB 196.0° 131.5 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
				↓	↑	
	060° 241°	76.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Aktobe Tower” on frequencies 4656 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ ERKIS	484421N 0572756E AKB 162.0° 92.0 NM (700 FT)					
	062° 244°	103.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Aktobe Tower” on frequencies 4656 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ INTER	491433N 0595813E AKB 107.6° 124.6 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
				↓	↑	
	062° 243°	104.1 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Aktobe Tower” on frequencies 4656 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL120 and FL190. {C}
▲ BEKOR (FIR BDRY)	494513N 0623050E ARK 247.0° 177.6 NM (1300 FT)					
	065° 246°	87.4 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kostanay Sector” on frequencies 4680 kHz and 4815 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL120 and FL170. {C}
▲ LAMGI	500657N 0644154E ARK 251.0° 90.3 NM (1300 FT)					
	068° 251°	134.3 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ {C}
▲ TUSEP	503136N 0680751E ARK 064.0° 44.4 NM (1300 FT)					
	066° 248°	74.0 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
△ 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}
▲ ASTAS	510006N 0712600E AST 360.0° 0.0 NM (1200 FT)				
	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)				
	074° 255°	62.6 NM	FL 510 FL 120	Odd Even	ASTANA ACC 132.8 MHZ PAVLODAR TOWER 119.8 MHZ {C}
△ EKTUS	514225N 0765305E PVL 185.0° 31.2 NM (500 FT)				
	075° 256°	11.1 NM	FL 510 FL 120	Odd Even	ASTANA ACC 132.8 MHZ PAVLODAR TOWER 119.8 MHZ {C}
△ ABRAS	514331N 0771053E PVL 165.0° 29.3 NM (500 FT)				
	076° 256°	24.9 NM	FL 510 FL 120	Odd Even	ASTANA ACC 132.8 MHZ PAVLODAR TOWER 119.8 MHZ {C}

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

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
L992 (RNAV 5)	(1) Before, see AIP Russia and CIS (2) For continuation, see AIP Russia				
▲ TIROM (FIR BDRY)	421434N 0531720E AKT 128.0° 138.3 NM (100 FT)				Before, see AIP Russia and CIS
	009° 189°	48.1 NM	FL 510 FL 120	Odd Even	AKTOBE ACC 119.8 MHZ {C}
△ ARNUS	430052N 0533509E AKT 107.0° 121.6 NM (100 FT)				
	009° 189°	30.5 NM	FL 510 FL 120	Odd Even	AKTOBE ACC 119.8 MHZ {C}
△ BAPER	433011N 0534642E AKT 094.0° 120.2 NM (100 FT)				
	009° 189°	23.8 NM	FL 510 FL 120	Odd Even	AKTOBE ACC 119.8 MHZ {C}
△ RINIT	435305N 0535549E BNU 202.0° 101.2 NM (0 FT)				
	009° 189°	59.9 NM	FL 510 FL 120	Odd Even	AKTOBE ACC 119.8 MHZ {C}
▲ BODSI	445034N 0541914E BNU 220.0° 45.3 NM (0 FT)				

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME 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°	44.1 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
△ AGNIM	453221N 0543918E BNU 293.0° 23.1 NM (0 FT)					
	011° 191°	18.1 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
▲ NESDO	454926N 0544739E BNU 326.0° 32.2 NM (0 FT)					
	011° 191°	62.7 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
△ PEMOL	464841N 0551720E BNU 356.0° 88.6 NM (0 FT)					
	011° 191°	43.9 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ {C}
△ ODPUT	473004N 0553846E BNU 001.0° 131.5 NM (0 FT)					
	011° 190°	33.6 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Atyrau Tower” on frequencies 4688 kHz and 4830 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL 120 and FL 150. {C}
▲ ABULU	480139N 0555532E AKB 189.0° 143.1 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
				↓	↑	
	010° 190°	32.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Aktobe Tower” on frequencies 4656 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL120 and FL160. {C}
△ LOGTO	483204N 0561202E AKB 189.0° 110.7 NM (700 FT)					
	010° 190°	72.6 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
△ TIKTO	494006N 0565014E AKB 190.0° 38.2 NM (700 FT)					
	010° 190°	38.2 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 128.0 MHZ {C}
▲ EKTOB	501548N 0571055E AKB 360.0° 0.0 NM (700 FT)					
	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 AKB 007.0° 38.6 NM (700 FT)					For continuation, see AIP Russia

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L993 (RNAV 5)	(3) 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	
				↓	↑		
▲ ARNIR	494114N 0732226E						
	278° 092°	208.7 NM	FL 510 FL 250	Even	Odd	ASTANA ACC 124.1 MHZ {C}	
▲ TUSEP	503136N 0680751E						
	278° 090°	302.7 NM	FL 510 FL 250	Even	Odd	ASTANA ACC 133.1 MHZ {C}	
▲ LENTA (FIR BDRY)	514854N 0602236E					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)						
▲ RIMPU	500158N 0823031E UKM 360.0° 0.0 NM (1000 FT)					
	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}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ ETORI	503208N 0790845E SEM 277.0° 43.6 NM (700 FT)					
	277° 096°	38.3 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}
▲ BAMAT (FIR BDRY)	504125N 0781025E SEM 276.0° 81.9 NM (700 FT)					
	276° 095°	30.9 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ DILGI	504833N 0772303E PVL 164.0° 84.8 NM (500 FT)					
	275° 094°	31.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ GOBSO	505523N 0763521E PVL 184.0° 79.6 NM (500 FT)					
	268° 085°	137.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ EDANO	510858N 0725804E AST 072.0° 58.7 NM (1200 FT)					
	252° 071°	58.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}
▲ ASTAS	510006N 0712600E AST 360.0° 0.0 NM (1200 FT)					
	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 AST 286.0° 64.2 NM (1200 FT)					
	287° 105°	64.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
▲ ATBAN	515824N 0682152E KTU 197.0° 94.6 NM (900 FT)					
	284° 103°	32.5 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑		Controlling unit {Airspace class} Remarks
▲ ATNON	521149N 0673350E KTU 215.0° 102.0 NM (900 FT)					
	283° 102°	33.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ LATKO	522508N 0664427E KTU 229.0° 118.6 NM (900 FT)					
	282° 100°	52.2 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ GITNA	524459N 0652518E KST 100.0° 72.4 NM (600 FT)					
	281° 101°	8.4 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ DOKUT	524814N 0651230E KST 099.0° 63.9 NM (600 FT)					
	280° 099°	64.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}
▲ EKSOZ	531113N 0633346E KST 360.0° 0.0 NM (600 FT)					
	268° 086°	38.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}
△ LODEZ	531715N 0623004E KST 268.0° 38.7 NM (600 FT)					
	266° 085°	48.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}
▲ TITUR (FIR BDRY)	532406N 0610924E KST 268.0° 87.6 NM (600 FT)					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
L998						
△ IZIMA	432236N 0770503E ATA 332.2° 0.1 NM (2200 FT)					
	333° 152°	14.2 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ BEDUR	433546N 0765739E ATA 332.7° 14.3 NM (2200 FT)					
	332° 152°	13.6 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ DETAK	434823N 0765029E ATA 332.6° 28.0 NM (2200 FT)					
	332° 152°	13.1 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
▲ BAKIS	440031N 0764333E ATA 332.6° 41.1 NM (2200 FT)					
	332° 152°	15.0 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 133.1 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ UMIRO	441421N 0763537E ATA 332.7° 56.1 NM (2200 FT)					
	332° 152°	6.6 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 133.1 MHZ ALMATY APPROACH 124.8 MHZ {C}
▲ ETEDA	442024N 0763206E ATA 332.6° 62.6 NM (2200 FT)					
	332° 151°	58.5 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 133.1 MHZ {C}
△ DODOK	451420N 0760011E TDK 268.0° 103.3 NM (2000 FT)					
	331° 150°	31.3 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 133.1 MHZ {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑		Controlling unit {Airspace class} Remarks
▲ RITAB	454308N 0754239E BLH 150.0° 76.1 NM (1400 FT)					
	330° 150°	32.9 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ {C}
△ TULPI	461318N 0752358E BLH 150.0° 43.3 NM (1400 FT)					
	330° 150°	43.3 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ BALKHASH TOWER 128.0 MHZ {C}
▲ OGLAB	465259N 0745902E BLH 360.0° 0.0 NM (1400 FT)					
	315° 134°	52.9 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ BALKHASH TOWER 128.0 MHZ {C}
△ BAGIL	473425N 0741044E BLH 314.0° 52.9 NM (1400 FT)					
	314° 134°	40.3 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ {C}
▲ AGADI (FIR BDRY)	480559N 0733338E BLH 314.0° 93.2 NM (1400 FT)					
	304° 118°	221.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}
△ ASTIK	502734N 0691434E ARK 075.0° 85.7 NM (1300 FT)					
	307° 125°	75.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
▲ RUDAL	512154N 0675222E ARK 017.0° 70.7 NM (1300 FT)					
	302° 118°	131.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ DOKUT	524814N 0651230E KST 099.0° 63.9 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
				↓	↑	
	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 KST 318.0° 63.0 NM (600 FT)					

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ENR-3.2.2 “M” ROUTES

1. NAVIGATION SPECIFICATION

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

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
M34 (RNAV 5)		(2) Before, see AIP Russia and CIS				
▲ BALGO (FIR BDRY)		430234N 0733602E TAR 079.0° 102.7 NM (2200 FT)				Before, see AIP Russia and CIS
	004° 184°	39.7 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Approach” on frequencies 4744 kHz. - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
▲ TOMGO		434146N 0734454E TAR 060.0° 118.9 NM (2200 FT)				
	009° 189°	39.5 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Approach” on frequencies 4744 kHz. - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
▲ ALAKO		441958N 0735903E ATA 289.1° 146.4 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
				↓	↑	
	009° 189°	10.3 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Approach” on frequencies 4744 kHz. - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
▲ ABEBA (FIR BDRY)	442957N 0740248E ATA 293.0° 148.0 NM (2200 FT)					
	009° 189°	31.0 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}
▲ OGLAB	465259N 0745902E BLH 360.0° 0.0 NM (1400 FT)					
	008° 188°	37.6 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 125.5 MHZ BALKHASH TOWER 128.0 MHZ {C}
△ OBARU	472917N 0751312E BLH 008.0° 37.6 NM (1400 FT)					
	008° 188°	72.8 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 125.5 MHZ {C}
▲ AGPIN (FIR BDRY)	483931N 0754146E KRG 116.0° 110.3 NM (1800 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
				↓	↑	
	008° 188°	20.9 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 124.1 MHz In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Karaganda Tower” on frequencies 4728 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ LALAS	485941N 0755014E KRG 105.0° 105.2 NM (1800 FT)					
	008° 188°	8.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 124.1 MHz In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Karaganda Tower” on frequencies 4728 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ ULKAP	490729N 0755332E KRG 101.0° 104.3 NM (1800 FT)					
	008° 188°	42.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 124.1 MHz In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Karaganda Tower” on frequencies 4728 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
▲ AGINU (FIR BDRY)	494800N 0761100E KRG 077.0° 109.5 NM (1800 FT)				
	005° 185°	69.2 NM	FL 510 FL 120	Odd Even	ASTANA ACC 132.8 MHZ {C}
△ GOBSO	505523N 0763521E PVL 184.0° 79.6 NM (500 FT)				
	005° 184°	48.4 NM	FL 510 FL 120	Odd Even	ASTANA ACC 132.8 MHZ PAVLODAR TOWER 119.8 MHZ {C}
△ EKTUS	514225N 0765305E PVL 185.0° 31.2 NM (500 FT)				
	005° 186°	31.2 NM	FL 510 FL 120	Odd Even	ASTANA ACC 132.8 MHZ PAVLODAR TOWER 119.8 MHZ {C}
▲ KANET	521235N 0770542E PVL 360.0° 0.0 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
M56 (RNAV 5)					
▲ GERLI	495334N 0535254E URL 120.0° 117.1 NM (200 FT)				
	310° 128°	76.7 NM	FL 510 FL 120	Even Odd	AKTOBE ACC 131.4 MHZ {C}
△ VEVIK	505201N 0523529E URL 102.0° 43.1 NM (200 FT)				
	321° 140°	55.2 NM	FL 510 FL 120	Even Odd	AKTOBE ACC 131.4 MHZ URALSK TOWER 119.7 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
▲ BEKAS (FIR BDRY)	514029N 0515327E URL 011.0° 34.2 NM (200 FT)				

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
M75 (RNAV 5)	(1) Before, see AIP Uzbekistan (2) For continuation, see AIP Route				
▲ UBAGU (FIR BDRY)	430228N 0625120E KZO 221.0° 153.8 NM (500 FT)				Before, see AIP Uzbekistan
	042° 223°	26.4 NM	FL 510 FL 120	Odd Even	SHYMKENT ACC 127.3 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kyzylorda Tower” on frequencies 5335 kHz and 6672 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ RIMDO	431940N 0631837E KZO 222.0° 127.5 NM (500 FT)				
	043° 223°	16.7 NM	FL 510 FL 120	Odd Even	SHYMKENT ACC 127.3 MHZ {C}
△ NITNA	433032N 0633601E KZO 222.0° 110.8 NM (500 FT)				
	043° 223°	11.8 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
				↓	↑	
▲ MIMRI	433808N 0634822E KZO 222.0° 99.0 NM (500 FT)					
	026° 206°	56.8 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}
△ ADREM	442548N 0643118E KZO 243.0° 47.5 NM (500 FT)					
	026° 206°	28.2 NM	FL 510 FL 150	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}
△ GIGUR	444920N 0645300E KZO 277.0° 30.1 NM (500 FT)					
	026° 206°	6.9 NM	FL 510 FL 150	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}
△ BUDET	445507N 0645824E KZO 290.0° 28.5 NM (500 FT)					
	026° 207°	80.3 NM	FL 510 FL 150	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}
△ ANIGO	460143N 0660207E KZO 007.0° 82.4 NM (500 FT)					
	027° 207°	35.2 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}
▲ BAMET (FIR BDRY)	463042N 0663051E DZG 206.0° 88.8 NM (1300 FT)					
	027° 207°	32.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ GISIR	465704N 0665732E DZG 206.0° 56.7 NM (1300 FT)					
	027° 207°	13.3 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ REMTI	470757N 0670843E DZG 206.0° 43.4 NM (1300 FT)					
	027° 207°	43.4 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 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 ↓ ↑	
▲ ALZIS	474317N 0674542E DZG 360.0° 0.0 NM (1300 FT)				
	027° 207°	43.1 NM	FL 510 FL 120	Odd	Even
△ DOPAR	481831N 0682229E DZG 027.0° 43.0 NM (1300 FT)				
	025° 205°	16.7 NM	FL 510 FL 120	Odd	Even
△ MAKUT	483217N 0683632E DZG 026.0° 59.7 NM (1300 FT)				
	027° 207°	54.9 NM	FL 510 FL 120	Odd	Even
▲ AMIGU	491645N 0692517E ARK 114.0° 112.2 NM (1300 FT)				
	027° 207°	57.0 NM	FL 510 FL 120	Odd	Even
△ RELGO	500234N 0701730E AST 207.0° 72.3 NM (1200 FT)				
	027° 208°	9.3 NM	FL 510 FL 120	Odd	Even
△ KOKON	500958N 0702609E AST 207.0° 63.0 NM (1200 FT)				
	027° 208°	14.8 NM	FL 510 FL 120	Odd	Even
▲ BASPA	502144N 0704001E AST 208.0° 48.3 NM (1200 FT)				
	028° 208°	30.1 NM	FL 510 FL 120	Odd	Even
△ LIGMO	504539N 0710837E AST 207.0° 18.2 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
				↓	↑	
	027° 208°	18.2 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}
▲ ASTAS	510006N 0712600E AST 360.0° 0.0 NM (1200 FT)					
	360° 180°	30.4 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}
△ LADOG	512959N 0713440E AST 000.4° 30.4 NM (1200 FT)					
	360° 180°	35.8 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}
△ OLGAS	520510N 0714507E AST 001.0° 66.2 NM (1200 FT)					
	001° 181°	34.4 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ {C}
△ AMOLA	523853N 0715604E KTU 106.0° 94.0 NM (900 FT)					
	359° 179°	22.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ ULSET	530027N 0720230E KTU 093.0° 89.9 NM (900 FT)					
	359° 179°	38.2 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
▲ POBUR	533800N 0721400E KTU 069.0° 95.3 NM (900 FT)					
	360° 179°	32.1 NM	FL 510 FL 120	Even	Odd	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		
				↓	↑			
M149 (RNAV 5)		(S) For coordination, see AIP Route						
▲ AGUNA		435906N 0754739E ATA 298.4° 67.1 NM (2200 FT)						
	336° 156°	53.8 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 133.1 MHZ {C}		
△ ADIRO		445011N 0752356E ATA 315.7° 114.0 NM (2200 FT)						
	335° 155°	29.6 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 133.1 MHZ {C}		
▲ MALOD		451812N 0751037E BLH 168.0° 95.2 NM (1400 FT)						
	349° 168°	48.5 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ {C}		
△ KONEK		460631N 0750443E BLH 168.0° 46.7 NM (1400 FT)						
	349° 168°	46.7 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 125.5 MHZ BALKHASH TOWER 128.0 MHZ {C}		
▲ OGLAB		465259N 0745902E BLH 360.0° 0.0 NM (1400 FT)						
	021° 201°	39.9 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 125.5 MHZ BALKHASH TOWER 128.0 MHZ {C}		
△ BIKRI		472814N 0752625E BLH 021.0° 39.9 NM (1400 FT)						
	021° 201°	75.6 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 125.5 MHZ {C}		
▲ ROSID		483440N 0762005E BLH 022.0° 115.5 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
				↓	↑	
	021° 201°	25.1 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to:- establish communication via other aircraft;- use HF radio to relay messages through “Semey Tower” on frequencies 6645 kHz in accordance with ATC unit operational procedures;- if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ TAGAL	485638N 0763825E KRG 102.0° 135.8 NM (1800 FT)					
	021° 202°	15.8 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to:- establish communication via other aircraft;- use HF radio to relay messages through “Semey Tower” on frequencies 6645 kHz in accordance with ATC unit operational procedures;- if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL 120 and FL 150. {C}
△ ESUMA	491025N 0765006E KRG 095.0° 139.0 NM (1800 FT)					
	022° 202°	18.2 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to:- establish communication via other aircraft;- use HF radio to relay messages through “Semey Tower” on frequencies 6645 kHz in accordance with ATC unit operational procedures;- if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL 120 and FL 160. {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
				↓	↑	
△ UGMON	492619N 0770343E SEM 240.1° 135.0 NM (700 FT)					
	022° 202°	39.0 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to:- establish communication via other aircraft;- use HF radio to relay messages through “Semey Tower” on frequencies 6645 kHz in accordance with ATC unit operational procedures;- if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL120 and FL140. {C}
△ ADETA	500015N 0773321E SEM 250.0° 105.7 NM (700 FT)					
	022° 202°	47.6 NM	FL 510 FL 220	Odd	Even	ALMATY ACC 132.1 MHZ {C}
▲ BAMAT (FIR BDRY)	504125N 0781025E SEM 276.0° 81.9 NM (700 FT)					
	022° 202°	40.3 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ {C}
△ MIKSA	511608N 0784241E SEM 306.0° 80.3 NM (700 FT)					
	022° 203°	39.4 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ {C}
▲ LAGMO (FIR BDRY)	514954N 0791500E PVL 098.0° 83.0 NM (500 FT)					For continuation, see AIP Russia

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
M158 (RNAV 5)	(1) 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
				↓	↑	
▲ BODSI	445034N 0541914E BNU 220.0° 45.3 NM (0 FT)					
	316° 135°	38.5 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119.8 MHZ {C}
▲ ANIGA	452130N 0534647E BNU 262.0° 56.8 NM (0 FT)					
	315° 135°	13.0 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 130.9 MHZ {C}
△ GOLGI	453153N 0533543E BNU 271.0° 65.5 NM (0 FT)					
	315° 134°	40.7 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 130.9 MHZ {C}
△ OTMAS	460419N 0530034E ATR 134.0° 81.5 NM (0 FT)					
	314° 134°	38.2 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 130.9 MHZ {C}
△ RENPI	463437N 0522656E ATR 133.0° 43.2 NM (0 FT)					
	314° 133°	43.2 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 130.9 MHZ ATYRAU TOWER 118.1 MHZ {C}
▲ LOKOZ	470838N 0514805E ATR 360.0° 0.0 NM (0 FT)					
	349° 168°	43.2 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 130.9 MHZ ATYRAU TOWER 118.1 MHZ {C}
△ OLAPU	475146N 0514531E ATR 349.0° 43.2 NM (0 FT)					
	348° 168°	69.9 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 130.9 MHZ {C}
▲ BAGIR	490131N 0514106E ATR 348.0° 113.1 NM (0 FT)					
	348° 167°	84.3 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
				↓	↑	
△ DOKUS	502539N 0513528E URL 166.0° 43.4 NM (200 FT)					
	347° 167°	43.4 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 131.4 MHZ URALSK TOWER 119.7 MHZ {C}
▲ LEDGI	510855N 0513238E URL 360.0° 0.0 NM (200 FT)					
	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 URL 046.0° 34.8 NM (200 FT)					
	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 URL 046.0° 43.4 NM (200 FT)					For continuation, see AIP Russia

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
M161 (RNAV 5)		(1) Before, see AIP Kazakhstan (2) For continuation, see AIP Russia				
▲ ODIVA (FIR BDRY)		423530N 0640848E KZO 198.0° 140.5 NM (500 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
				↓	↑	
	314° 133°	57.5 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kyzylorda Tower” on frequencies 5335 kHz and 6672 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ RIMDO	431940N 0631837E KZO 222.0° 127.5 NM (500 FT)					
	313° 132°	23.0 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kyzylorda Tower” on frequencies 5335 kHz and 6672 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
▲ BOLNA	433712N 0625812E KZO 232.0° 129.3 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
				↓	↑	
	312° 132°	9.3 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHz In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kyzylorda Tower” on frequencies 5335 kHz and 6672 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ ADAKA	434416N 0624955E KZO 236.0° 131.1 NM (500 FT)					
	312° 132°	35.1 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHz In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kyzylorda Tower” on frequencies 5335 kHz and 6672 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ TOZLI	441054N 0621817E KZO 251.0° 143.4 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
				↓	↑	
	312° 131°	56.9 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kyzylorda Tower” on frequencies 5335 kHz and 6672 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited at FL120. {C}
△ LATNU	445345N 0612553E ARL 175.0° 116.1 NM (300 FT)					
	311° 130°	42.3 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)					
	310° 129°	65.3 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ {C}
▲ ABDUN	461337N 0594316E ARL 236.0° 86.4 NM (300 FT)					
	306° 125°	74.0 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ {C}
△ LUMEZ	470537N 0582647E ARL 269.5° 131.3 NM (300 FT)					
	306° 125°	17.4 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119 MHZ Radar coverage limited between FL120 and FL130. {C}
▲ ARKER	471757N 0580839E ARL 271.0° 145.3 NM (300 FT)					
	305° 125°	28.9 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ Radar coverage limited between FL120 and FL160. {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
				↓	↑	
△ UDATO	473801N 0573755E AKB 163.0° 158.9 NM (700 FT)					
	305° 124°	62.7 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ Radar coverage limited between FL120 and FL160. {C}
△ EKDAD	482100N 0562959E AKB 183.0° 117.7 NM (700 FT)					
	304° 123°	16.3 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ In case of possible VHF radio communication failure at FL120– FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Aktobe Tower” on frequencies 4656 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ LOGTO	483204N 0561202E AKB 189.0° 110.7 NM (700 FT)					
	303° 123°	13.8 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ In case of possible VHF radio communication failure at FL120– FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Aktobe Tower” on frequencies 4656 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ UGLUK	484125N 0555642E AKB 196.0° 106.1 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
				↓	↑	
	303° 123°	14.2 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Aktobe Tower” on frequencies 4656 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ KURUL	485059N 0554051E AKB 203.0° 103.2 NM (700 FT)					
	303° 122°	28.0 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Aktobe Tower” on frequencies 4656 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ AGMAN	490942N 0550920E AKB 218.0° 103.0 NM (700 FT)					
	302° 121°	66.4 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Aktobe Tower” on frequencies 4656 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
▲ GERLI	495334N 0535254E URL 120.0° 117.1 NM (200 FT)				
	301° 119°	73.8 NM	FL 510 FL 120	Even Odd	AKTOBE ACC 131.4 MHZ {C}
△ EDAKO	504120N 0522510E URL 119.0° 43.2 NM (200 FT)				
	299° 119°	43.2 NM	FL 510 FL 120	Even Odd	AKTOBE ACC 131.4 MHZ URALSK TOWER 119.7 MHZ {C}
▲ LEDGI	510855N 0513238E URL 360.0° 0.0 NM (200 FT)				
	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 URL 315.0° 21.5 NM (200 FT)				
	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 URL 316.0° 37.8 NM (200 FT)				For continuation, see AIP Russia

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
M166 (RNAV 5)	(1) Before, see AIP China (2) For continuation, see AIP Russia				
▲ SARIN (FIR BDRY)	465156N 0825317E AGZ 118.0° 118.2 NM (2200 FT)				Before, see AIP China
	298° 117°	40.5 NM	FL 510 FL 150	Even Odd	ALMATY ACC 132.1 MHZ Radar coverage limited between FL120 and FL150. {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
▲ AGUSA	471400N 0820338E AGZ 117.0° 77.7 NM (2200 FT)					
	297° 116°	37.8 NM	FL 510 FL 150	Even	Odd	ALMATY ACC 132.1 MHZ {C}
▲ TOLKI	473415N 0811640E AGZ 117.0° 39.9 NM (2200 FT)					
	297° 117°	22.5 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}
△ BANUM	474633N 0804834E AGZ 296.3° 17.3 NM (2200 FT)					
	296° 116°	17.3 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}
▲ KABIZ	475552N 0802659E AGZ 360.0° 0.0 NM (2200 FT)					
	287° 105°	67.2 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}
△ OSNER	482119N 0785409E AGZ 286.0° 67.2 NM (2200 FT)					
	286° 104°	55.9 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}
△ DODEM	484212N 0773614E AGZ 285.0° 123.0 NM (2200 FT)					
	284° 103°	40.9 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Semey Tower” on frequencies 6645 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL120 and FL140. {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
				↓	↑	
△ TAGAL	485638N 0763825E KRG 102.0° 135.8 NM (1800 FT)					
	283° 102°	19.2 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Semey Tower” on frequencies 6645 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited at FL120. {C}
▲ GORBO (FIR BDRY)	490316N 0761100E KRG 099.0° 116.9 NM (1800 FT)					
	283° 102°	12.2 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Karaganda Tower” on frequencies 4728 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ ULKAP	490729N 0755332E KRG 101.0° 104.3 NM (1800 FT)					
	282° 100°	60.5 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}
△ ARLIH	492724N 0742621E KRG 100.0° 43.9 NM (1800 FT)					
	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
▲ ARNIR	494114N 0732226E KRG 360.0° 0.0 NM (1800 FT)					
	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 KRG 271.0° 46.3 NM (1800 FT)					
	271° 090°	39.2 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}
▲ GURPI	495618N 0711236E AST 178.0° 64.4 NM (1200 FT)					
	271° 090°	36.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}
△ RELGO	500234N 0701730E AST 207.0° 72.3 NM (1200 FT)					
	269° 088°	37.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}
△ INRIK	500744N 0692030E ARK 088.0° 90.1 NM (1300 FT)					
	269° 088°	41.4 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}
▲ VAMRI	501330N 0681645E ARK 087.0° 48.7 NM (1300 FT)					
	267° 086°	48.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
▲ ARHIG	501904N 0670118E ARK 360.0° 0.0 NM (1300 FT)					
	263° 082°	45.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
▲ KUSOT	502128N 0655110E ARK 262.0° 45.0 NM (1300 FT)					
	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 ARK 261.0° 104.4 NM (1300 FT)						
	261° 080°	50.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kostanay Sector” on frequencies 4680 kHz and 4815 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}	
△ EMBEK	502333N 0625947E ARK 263.0° 154.8 NM (1300 FT)						
	260° 079°	22.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ Radar coverage limited between FL120 and FL170. {C}	
▲ ABIRA (FIR BDRY)	502331N 0622455E KST 181.0° 173.3 NM (600 FT)						
	259° 078°	50.6 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ Radar coverage limited between FL120 and FL190. {C}	
△ BESOL	502254N 0610548E AKB 078.0° 150.7 NM (700 FT)						
	258° 076°	104.0 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}	
△ LITBA	501849N 0582332E AKB 076.0° 46.7 NM (700 FT)						
	256° 075°	46.7 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 128.0 MHZ {C}	

Route designator		[Route Usage Notes]						
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks		
				↓	↑			
▲ EKTOB	501548N 0571055E AKB 360.0° 0.0 NM (700 FT)							
	262° 081°	43.1 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 128.0 MHZ {C}		
△ LARPI	501721N 0560345E AKB 261.0° 43.1 NM (700 FT)							
	261° 080°	57.7 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}		
▲ SIVKO	501827N 0543349E AKB 260.0° 100.8 NM (700 FT)							
	284° 102°	82.6 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 131.4 MHZ {C}		
△ VEVIK	505201N 0523529E URL 102.0° 43.1 NM (200 FT)							
	283° 102°	43.2 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 131.4 MHZ URALSK TOWER 119.7 MHZ {C}		
▲ LEDGI	510855N 0513238E URL 360.0° 0.0 NM (200 FT)							
	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 URL 288.0° 42.7 NM (200 FT)					For continuation, see AIP Russia		

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
M168 (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
▲ NETAT	403653N 0682413E SMK 198.0° 115.3 NM (1400 FT)				Before, see AIP Uzbekistan
	041° 221°	11.1 NM	FL 510 3000 FT ALT	Odd Even	TASHKENT ACC {C}
▲ IPRAR	404431N 0683447E SMK 195.0° 105.2 NM (1400 FT)				For continuation, see AIP Uzbekistan

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
M168 (RNAV 5)	(1) Before, see AIP Uzbekistan. (2) For continuation, see AIP Russia.				
▲ ABGEN	405742N 0684248E SMK 195.0° 90.7 NM (1400 FT)				Before, see AIP Uzbekistan
	003° 183°	9.5 NM	FL 510 6000 FT ALT	Odd Even	TASHKENT ACC {C}
▲ ABEKA	410705N 0684442E SMK 196.0° 81.5 NM (1400 FT)				
	003° 183°	16.1 NM	FL 510 7000 FT ALT	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 7000 FT ALT	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}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
▲ 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)				
	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 TRK 323.0° 21.8 NM (1000 FT)				
	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 TRK 337.0° 51.0 NM (1000 FT)				
	348° 168°	18.6 NM	FL 510 FL 120	Even Odd	SHYMKENT ACC 127.3 MHZ {C}
△ REMOL	442704N 0681238E TRK 340.0° 69.4 NM (1000 FT)				
	348° 167°	91.4 NM	FL 510 FL 120	Even Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ BETPU (FIR BDRY)	455758N 0675945E DZG 166.0° 105.8 NM (1300 FT)				
	347° 166°	34.8 NM	FL 510 FL 120	Even Odd	ASTANA ACC 132.5 MHZ {C}
△ ELSEB	463234N 0675439E DZG 166.0° 71.0 NM (1300 FT)				

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit	FL series		Controlling unit {Airspace class} Remarks
			Lower limit	↓	↑	
	348° 168°	27.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ BURIK	470012N 0675152E DZG 166.0° 43.3 NM (1300 FT)					
	346° 166°	43.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
▲ ALZIS	474317N 0674542E DZG 360.0° 0.0 NM (1300 FT)					
	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°	49.6 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ UTEMU	493757N 0671237E ARK 159.7° 41.8 NM (1300 FT)					
	341° 161°	20.5 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ ARKALYK TOWER 134.3 MHZ {C}
▲ 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}
▲ ARHIG	501904N 0670118E ARK 360.0° 0.0 NM (1300 FT)					
	329° 145°	157.9 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 ↓ ↑	
△ GITNA	524459N 0652518E KST 100.0° 72.4 NM (600 FT)				
	325° 143°	103.4 NM	FL 510 FL 210	Even	Odd
▲ NELTI (FIR BDRY)	541942N 0641630E KST 008.0° 73.1 NM (600 FT)				For continuation, see AIP Russia

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
M199 (RNAV 5)		(*) Before, see AIP Russia				
▲ MULTA (FIR BDRY)		510442N 0565042E AKB 335.0° 50.6 NM (700 FT)				Before, see AIP Russia
	154° 335°	50.6 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 128.0 MHZ {C}
▲ EKTOB		501548N 0571055E AKB 360.0° 0.0 NM (700 FT)				
	131° 312°	42.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 128.0 MHZ {C}
△ ODILA		494259N 0575122E AKB 131.0° 41.9 NM (700 FT)				
	132° 312°	27.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
△ KEKUN		492143N 0581653E AKB 131.0° 69.0 NM (700 FT)				
	132° 313°	37.6 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
△ RILBA		485158N 0585148E AKB 132.0° 106.6 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
				↓	↑	
	133° 314°	69.7 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
▲ RESDO	475618N 0595446E ARL 304.0° 96.4 NM (300 FT)					
	134° 314°	14.6 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119 MHZ {C}
△ ARSAN	474436N 0600738E ARL 303.0° 82.1 NM (300 FT)					
	134° 317°	114.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119 MHZ {C}
▲ AVLAK (FIR BDRY)	461214N 0614508E ARL 163.0° 37.7 NM (300 FT)					
	137° 317°	27.3 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}
▲ INKUM	454952N 0620739E ARL 151.0° 63.3 NM (300 FT)					

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
M610 (RNAV 5)		(1) Before, see AIP Russia (2) For continuation, see AIP China				
▲ AZABI (FIR BDRY)		444424N 0493000E AKT 301.0° 85.2 NM (100 FT)				Before, see AIP Russia
	069° 251°	123.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 134.3 MHZ {C}
▲ LAROS		451010N 0521956E AKT 027.0° 95.0 NM (100 FT)				
	071° 252°	62.4 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		
				↓	↑			
▲ ANIGA	452130N 0534647E BNU 262.0° 56.8 NM (0 FT)							
	073° 255°	165.5 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}		
▲ DIVNO	454418N 0574000E BNU 070.0° 109.9 NM (0 FT)							
	089° 271°	132.1 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Aktobe Tower” on frequencies 4656 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited at FL120. {C}		
▲ MILSO (FIR BDRY)	452519N 0604609E ARL 194.0° 91.4 NM (300 FT)							
	092° 273°	47.0 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}		
△ OLINA	451645N 0615140E ARL 165.0° 93.4 NM (300 FT)							
	093° 274°	29.9 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}		
▲ TUKNA	451058N 0623308E ARL 150.0° 106.1 NM (300 FT)							
	094° 275°	41.0 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}		
▲ UNITO	450238N 0632952E KZO 275.0° 90.6 NM (500 FT)							
	095° 275°	48.7 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	
				↓	↑		
△ NATUS	445208N 0643650E KZO 277.0° 41.9 NM (500 FT)						
	096° 276°	11.8 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}	
△ GIGUR	444920N 0645300E KZO 277.0° 30.1 NM (500 FT)						
	097° 278°	30.1 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}	
▲ ORTEG	444145N 0653349E KZO 360.0° 0.0 NM (500 FT)						
	097° 278°	44.5 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}	
△ RINET	443026N 0663402E KZO 098.0° 44.5 NM (500 FT)						
	099° 280°	43.1 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}	
△ BIMDO	441809N 0673135E TRK 315.0° 74.3 NM (1000 FT)						
	100° 281°	32.8 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}	
△ TIMKA	440832N 0681511E TRK 337.0° 51.0 NM (1000 FT)						
	101° 281°	22.8 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}	
▲ LIMTO	440138N 0684518E TRK 004.0° 42.8 NM (1000 FT)						
	102° 282°	21.4 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ {C}	
▲ AKSOZ	435449N 0691321E TRK 031.8° 45.1 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
				↓	↑	
	101° 283°	75.2 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ {C}
▲ ARBOL	433055N 0705137E TAR 329.0° 42.9 NM (2200 FT)					
	078° 260°	126.4 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ {C}
▲ TOMGO	434146N 0734454E TAR 060.0° 118.9 NM (2200 FT)					
	086° 267°	19.6 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Approach” on frequencies 4744 kHz. - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
▲ BERV (FIR BDRY)	434059N 0741156E ATA 274.2° 127.3 NM (2200 FT)					
	087° 268°	58.1 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ {C}
△ TIPSA	433809N 0753149E ATA 278.4° 69.7 NM (2200 FT)					
	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 ATA 287.3° 35.8 NM (2200 FT)					
	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 ATA 312.8° 18.0 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
				↓	↑	
	085° 266°	6.6 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ BEDUR	433546N 0765739E ATA 332.7° 14.3 NM (2200 FT)					
	085° 266°	8.6 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ PEKIR	433539N 0770931E ATA 008.5° 13.5 NM (2200 FT)					
	087° 268°	15.3 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ TIRBA	433456N 0773031E ATA 050.8° 22.3 NM (2200 FT)					
	086° 266°	24.3 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}
△ PIGAL	433428N 0780356E ATA 068.9° 44.5 NM (2200 FT)					
	086° 267°	51.7 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ {C}
▲ BASPI	433257N 0791501E JRK 212.0° 51.0 NM (2600 FT)					
	087° 268°	24.3 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ {C}
▲ BERTO	433159N 0794824E JRK 184.0° 42.2 NM (2600 FT)					
	088° 269°	40.5 NM	FL 510 FL 140	Odd	Even	ALMATY ACC 131.4 MHZ {C}
▲ RULAD (FIR BDRY)	433001N 0804359E JRK 138.0° 55.2 NM (2600 FT)					For continuation, see AIP China

Route designator		[Route Usage Notes]					
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks	
				↓	↑		
M618 (RNAV 5)		For Continuation, see AIP Russia					
▲ UML0D		432218N 0750715E ATA 265.4° 85.9 NM (2200 FT)					
	033° 213°	47.0 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 131.4 MHZ {C}	
▲ AGUNA		435906N 0754739E ATA 298.4° 67.1 NM (2200 FT)					
	035° 216°	185.0 NM	FL 510 FL 210	Odd	Even	ALMATY ACC 133.1 MHZ {C}	
▲ LIPSI		461808N 0784001E TDK 002.0° 72.5 NM (2000 FT)					
	038° 219°	70.3 NM	FL 510 FL 210	Odd	Even	ALMATY ACC 132.1 MHZ {C}	
△ GOMAL		470809N 0795150E AGZ 200.0° 53.4 NM (2200 FT)					
	039° 220°	54.3 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}	
△ BANUM		474633N 0804834E AGZ 296.3° 17.3 NM (2200 FT)					
	039° 221°	132.6 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}	
▲ NEMEG		491804N 0831242E UKM 332.4° 51.4 NM (1000 FT)					
	042° 223°	78.3 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 132.1 MHZ {C}	
▲ GOMIR (FIR BDRY)		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	
				↓	↑		
M741 (RNAV 5)		(2) Before, see AIP Uzbekistan (3) For continuation, see AP Route					
▲ ASLOK	410548N 0671954E SMK 224.0° 121.8 NM (1400 FT)					Before, see AIP Uzbekistan	
	345° 165°	36.2 NM	FL 510 7000 FT ALT	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}	
▲ RITAL (FIR BDRY)	414130N 0671206E SMK 241.0° 108.2 NM (1400 FT)						
	341° 160°	24.5 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}	
△ ESKIZ	420521N 0670429E TRK 216.0° 99.6 NM (1000 FT)						
	340° 160°	55.9 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}	
▲ PAVEL	425947N 0664642E TRK 249.0° 81.5 NM (1000 FT)						
	343° 163°	16.2 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}	
▲ GEKSO	431544N 0664228E TRK 260.0° 82.1 NM (1000 FT)						
	343° 162°	63.3 NM	FL 510 FL 150	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}	
△ GITIM	441752N 0662540E KZO 116.0° 44.1 NM (500 FT)						
	344° 163°	105.2 NM	FL 510 FL 150	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}	
△ ANIGO	460143N 0660207E KZO 007.0° 82.4 NM (500 FT)						
	343° 162°	43.3 NM	FL 510 FL 150	Even	Odd	SHYMKENT ACC 127.3 MHZ {C}	
▲ LUGER (FIR BDRY)	464426N 0655200E DZG 223.0° 97.3 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
				↓	↑	
	339° 158°	84.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ INKOL	480633N 0652413E DZG 276.0° 97.8 NM (1300 FT)					
	338° 157°	19.5 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ EKLOP	482530N 0651734E DZG 285.0° 107.9 NM (1300 FT)					
	337° 157°	31.9 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ REGPI	485632N 0650629E ARK 213.0° 111.5 NM (1300 FT)					
	337° 157°	24.9 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ ARBIM	492045N 0645739E ARK 223.0° 99.1 NM (1300 FT)					
	338° 157°	34.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ IPKOD	495415N 0644617E ARK 245.0° 90.4 NM (1300 FT)					
	337° 157°	13.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ LAMGI	500657N 0644154E ARK 251.0° 90.3 NM (1300 FT)					
	337° 156°	42.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ ERNEN	504754N 0642731E ARK 277.0° 102.2 NM (1300 FT)					
	336° 156°	45.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ NARUR	513200N 0641130E KST 155.0° 102.0 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
				↓	↑	
	336° 155°	43.4 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ {C}
△ BALOK	521416N 0635540E KST 155.0° 58.6 NM (600 FT)					
	335° 155°	58.6 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHZ KOSTANAY TOWER 129.3 MHZ {C}
▲ EKSOZ	531113N 0633346E KST 360.0° 0.0 NM (600 FT)					
	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 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
				↓	↑	
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 In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kyzylorda Tower” on frequencies 5335 kHz and 6672 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL120 and FL160. {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 ARL 171.0° 160.3 NM (300 FT)					
	327° 147°	17.2 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ Radar coverage limited between FL120 and FL130. {C}
△ EKNIZ	442452N 0612711E ARL 174.1° 144.8 NM (300 FT)					
	327° 146°	67.1 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}
△ ODILA	494259N 0575122E AKB 131.0° 41.9 NM (700 FT)					
	325° 143°	90.5 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 128.0 MHZ {C}
▲ MULTA (FIR BDRY)	510442N 0565042E AKB 335.0° 50.6 NM (700 FT)					

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
↓				↑		
M993 (RNAV 5)	© 2025, see AIP Notice					

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ GOMIR (FIR BDRY)	501042N 0844206E UKM 079.0° 85.2 NM (1000 FT)					Before, see AIP Russia
	259° 078°	42.5 NM	FL 510 FL 130	Even	Odd	ALMATY ACC 132.1 MHZ {C}
△ DEVNA	500647N 0833619E UKM 078.0° 42.7 NM (1000 FT)					
	258° 077°	42.7 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ UST-KAMENOGORSK TOWER 130.1 MHZ {C}
▲ RIMPU	500158N 0823031E UKM 360.0° 0.0 NM (1000 FT)					
	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 SEM 122.0° 46.9 NM (700 FT)					
	251° 070°	36.1 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)					
	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 SEM 197.0° 45.7 NM (700 FT)					
	250° 069°	35.5 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}
△ NONRI	493111N 0785223E SEM 219.0° 72.9 NM (700 FT)					
	249° 068°	52.2 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
				↓	↑	
△ AKASA	491819N 0773455E SEM 231.0° 120.9 NM (700 FT)					
	248° 067°	30.4 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Semey Tower” on frequencies 6645 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL120 and FL160. {C}
△ ESUMA	491025N 0765006E KRG 095.0° 139.0 NM (1800 FT)					
	247° 066°	26.7 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Semey Tower” on frequencies 6645 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL120 and FL140. {C}
▲ GORBO (FIR BDRY)	490316N 0761100E KRG 099.0° 116.9 NM (1800 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
				↓	↑	
	248° 067°	14.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Karaganda Tower” on frequencies 4728 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ LALAS	485941N 0755014E KRG 105.0° 105.2 NM (1800 FT)					
	249° 068°	31.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}
△ IRGIT	485220N 0750436E KRG 118.0° 82.9 NM (1800 FT)					
	246° 065°	45.2 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}
△ GONEL	483912N 0735912E KRG 150.0° 66.6 NM (1800 FT)					
	246° 066°	37.5 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ {C}
△ LUTEK	482853N 0730459E KRG 180.0° 73.3 NM (1800 FT)					
	245° 063°	64.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 124.1 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Karaganda Tower” on frequencies 4728 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ ALEGA	480900N 0713249E KRG 209.0° 117.2 NM (1800 FT)					
	244° 063°	31.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Zhezkazgan Tower” on frequencies 4850 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited at FL 120. {C}
▲ KUROL	475900N 0704800E DZG 075.0° 123.8 NM (1300 FT)					
	256° 074°	80.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ AMASO	474914N 0684857E DZG 074.0° 43.1 NM (1300 FT)					
	254° 073°	43.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 MHZ {C}
▲ ALZIS	474317N 0674542E DZG 360.0° 0.0 NM (1300 FT)					
	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 DZG 284.0° 43.2 NM (1300 FT)					
	285° 103°	64.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ EKLOP	482530N 0651734E DZG 285.0° 107.9 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
				↓	↑	
	283° 101°	74.8 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Zhezkazgan Tower” on frequencies 4850 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ GOSPA	485256N 0633233E ARL 024.0° 145.9 NM (300 FT)					
	281° 100°	33.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kostanay Sector” on frequencies 4680 kHz and 4815 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL120 and FL130. {C}
△ LASMU	490432N 0624534E ARL 009.7° 142.7 NM (300 FT)					

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	280° 100°	6.2 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kostanay Sector” on frequencies 4680 kHz and 4815 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL120 and FL130. {C}
△ BEDRU (FIR BDRY)	490642N 0623638E ARL 008.0° 143.0 NM (300 FT)					
	279° 098°	31.7 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ Radar coverage limited between FL120 and FL130. {C}
△ AGLAL	491642N 0615044E ARL 354.7° 147.5 NM (300 FT)					
	279° 097°	92.3 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ Radar coverage limited between FL120 and FL150. {C}
△ TIMZO	494630N 0593634E AKB 095.6° 98.0 NM (700 FT)					
	278° 097°	55.1 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ {C}
△ ADRAT	500334N 0581528E AKB 096.0° 43.3 NM (700 FT)					
	276° 096°	43.3 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 129.6 MHZ AKTOBE TOWER 128.0 MHZ {C}
▲ EKTOB	501548N 0571055E AKB 360.0° 0.0 NM (700 FT)					

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}
▲ NOGBU	435220N 0510352E AKT 360.0° 0.0 NM (35 FT)					
	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)					

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	056° 237°	60.6 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Aktobe Tower” on frequencies 4656 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited at FL 120. {C}
△ 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 In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Aktobe Tower” on frequencies 4656 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
▲ 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 In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Zhezkazgan Tower” on frequencies 4850 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}

Route designator		[Route Usage Notes]					
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks	
				↓	↑		
△ 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}	
▲ ARNIR	494114N 0732226E KRG 360.0° 0.0 NM (1800 FT)						
	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}	
△ 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}	

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

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	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 Radar coverage limited between FL120 and FL160. {C}
▲ ARKER	471757N 0580839E ARL 271.0° 145.3 NM (300 FT)					
	039° 221°	165.3 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
△ TOLAZ	490416N 0611752E ARL 345.9° 135.4 NM (300 FT)					
	039° 219°	62.8 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ Radar coverage limited between FL120 and FL190. {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 Radar coverage limited between FL120 and FL170. {C}
▲ GEMBO	500256N 0625600E ARK 252.0° 158.5 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
				↓	↑	
	042° 222°	73.8 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kostanay Sector” on frequencies 4680 kHz and 4815 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ 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 In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kostanay Sector” on frequencies 4680 kHz and 4815 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ 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}
▲ NOGBU	435220N 0510352E AKT 360.0° 0.0 NM (35 FT)					
	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}
▲ 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}
▲ LOKOZ	470838N 0514805E ATR 360.0° 0.0 NM (0 FT)					
	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)					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	038° 219°	36.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Atyrau Tower” on frequencies 4688 kHz and 4830 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited at FL120. {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 In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Aktobe Tower” on frequencies 4656 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited at FL120. {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}
▲ EKTOB	501548N 0571055E AKB 360.0° 0.0 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
				↓	↑	
	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}
▲ EKSOZ	531113N 0633346E KST 360.0° 0.0 NM (600 FT)					
	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)					
	052° 233°	48.6 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
▲ 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}
▲ PETEP	544703N 0691309E PSK 360.0° 0.0 NM (500 FT)				
	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)				
	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)				

Route designator		[Route Usage Notes]				
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°	36.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
▲ NEPIL	434133N 052245E 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 052505E 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 053065E 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 053301E 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 053354E 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 054342E 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 054593E BNU 349.0° 126.8 NM (0 FT)					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	018° 198°	45.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Atyrau Tower” on frequencies 4688 kHz and 4830 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited at FL120. {C}
△ 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 In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Atyrau Tower” on frequencies 4688 kHz and 4830 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL120 and FL150. {C}
▲ ALABA	481845N 0553938E AKB 196.0° 131.5 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
				↓	↑	
	017° 197°	25.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Aktobe Tower” on frequencies 4656 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited at FL120. {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 128.0 MHZ {C}
▲ EKTOB	501548N 0571055E AKB 360.0° 0.0 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	FL series		Controlling unit {Airspace class} Remarks
			Lower limit	↓	↑	
N102 (RNAV 5)						
▲ BABUR (FIR BDRY)		452312N 0493000E AKT 315.0° 112.9 NM (100 FT)				Before, see AIP Russia
	097° 279°	117.4 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
▲ 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}
▲ 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
N102 (RNAV 5)					
▲ GILAT (FIR BDRY)	415707N 0660000E TRK 227.0° 140.8 NM (1000 FT)				Before, see AIP Uzbekistan
	074° 254°	48.8 NM	FL 510 FL 120	Odd Even	SHYMKENT ACC 132.7 MHZ {C}
△ ESKIZ	420521N 0670429E TRK 216.0° 99.6 NM (1000 FT)				
	075° 256°	53.2 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}
▲ FODIK	422220N 0692631E SMK 360.0° 0.0 NM (1400 FT)				
	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)				

Route designator		[Route Usage Notes]				
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	↓	↑	
	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}
△ 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}
▲ OGLAB	465259N 0745902E BLH 360.0° 0.0 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
				↓	↑	
	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}
△ 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 In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Semey Tower” on frequencies 6645 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL120 and FL150. {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)					

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	
	039° 220°	43.2 NM	FL 510 FL 120	Odd	Even
▲ SOMIP	502106N 0801402E SEM 281.0° 0.4 NM (700 FT)				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 ↓ ↑	
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
▲ LAGUK	440528N 0795517E JRK 185.0° 8.4 NM (2600 FT)				ALMATY ACC 131.4 MHZ {C}
	310° 129°	38.0 NM	FL 510 FL 210	Even	Odd
▲ BARUR	443207N 0791739E JRK 298.0° 33.9 NM (2600 FT)				
	309° 129°	27.6 NM	FL 510 FL 210	Even	Odd
△ ATPOR	445123N 0784955E TDK 126.0° 22.8 NM (2000 FT)				
	306° 126°	22.8 NM	FL 510 FL 210	Even	Odd
▲ KOKZA	450622N 0782548E TDK 360.0° 0.0 NM (2000 FT)				
	308° 126°	109.0 NM	FL 510 FL 210	Even	Odd
▲ ABREK	462025N 0763143E BLH 111.0° 71.7 NM (1400 FT)				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 ↓ ↑	
	306° 122°	160.9 NM	FL 510 FL 210	Even	Odd
▲ AGADI (FIR BDRY)	480559N 0733338E BLH 314.0° 93.2 NM (1400 FT)				ALMATY ACC 125.5 MHZ {C}
	299° 112°	258.1 NM	FL 510 FL 210	Even	Odd
▲ TUSEP	503136N 0680751E ARK 064.0° 44.4 NM (1300 FT)				ASTANA ACC 124.1 MHZ {C}
	305° 120°	233.2 NM	FL 510 FL 210	Even	Odd
▲ EKSOZ	531113N 0633346E KST 360.0° 0.0 NM (600 FT)				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
				↓	↑	
N143 (RNAV 5)						
▲ OGOLI	412858N 0663632E SMK 240.0° 137.6 NM (1400 FT)					Before, see AIP Uzbekistan
	059° 239°	29.5 NM	FL 510 4000 FT ALT	Odd	Even	TASHKENT ACC {C}
▲ RITAL (FIR BDRY)	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}
▲ FODIK	422220N 0692631E SMK 360.0° 0.0 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
				↓	↑	
	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}
▲ KIZMI	425214N 0711654E TAR 360.0° 0.0 NM (2200 FT)					
	061° 241°	29.3 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ TARAZ APPROACH 122.1 MHZ {C}
△ NASIP	430347N 0715332E 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 0734454E TAR 060.0° 118.9 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
				↓	↑	
	040° 220°	54.3 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Approach” on frequencies 4744 kHz. - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
▲ DITSU (FIR BDRY)	441934N 0743855E 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 0752356E 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 0753100E 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 0754903E 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 0760011E 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 0770006E 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}
▲ KABIZ	475552N 0802659E AGZ 360.0° 0.0 NM (2200 FT)				
	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 BDRY)	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° 248°	22.9 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	
				↓	↑		
△ NEZRA	425733N 0663541E TRK 250.1° 89.9 NM (1000 FT)						
	068° 248°	8.4 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ {C}	
△ 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°	9.4 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ TURKISTAN TOWER 131.3 MHZ {C}	
▲ ELAHA	431932N 0683446E TRK 360.0° 0.0 NM (1000 FT)						
	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}	

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
△ 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}
▲ 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
N154 (RNAV 5)					
▲ KORAG (FIR BDRY)	435134N 0560000E BNU 149.0° 96.5 NM (0 FT)				Before, see AIP Uzbekistan
	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}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
△ 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}
△ 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}
▲ NOGBU	435220N 0510352E AKT 360.0° 0.0 NM (35 FT)				
	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)				

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	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}
△ 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 In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Aktobe Tower” on frequencies 4656 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited at FL120. {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}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	
▲ ARKAM (FIR BDRY)	471135N 0643220E ARL 072.0° 121.9 NM (300 FT)				
	067° 247°	19.7 NM	FL 510 FL 120	Odd	Even
△ BAGED	471628N 0650016E DZG 249.0° 115.2 NM (1300 FT)				
	067° 248°	35.3 NM	FL 510 FL 120	Odd	Even
△ TIROK	472456N 0655037E DZG 247.0° 80.1 NM (1300 FT)				
	067° 248°	36.7 NM	FL 510 FL 120	Odd	Even
△ ABURA	473345N 0664312E DZG 249.4° 43.3 NM (1300 FT)				
	068° 249°	43.3 NM	FL 510 FL 120	Odd	Even
▲ ALZIS	474317N 0674542E DZG 360.0° 0.0 NM (1300 FT)				
	073° 254°	43.1 NM	FL 510 FL 120	Odd	Even
△ AMASO	474914N 0684857E DZG 074.0° 43.1 NM (1300 FT)				
	083° 264°	73.6 NM	FL 510 FL 120	Odd	Even
△ DERAD	474634N 0703805E DZG 079.0° 116.5 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
				↓	↑	
	084° 266°	48.3 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Zhezkazgan Tower” on frequencies 4850 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited at FL120. {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}
▲ 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)					

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	
	092° 273°	40.0 NM	FL 510 FL 150	Odd	Even
▲ SARIN (FIR BDRY)	465156N 0825317E AGZ 118.0° 118.2 NM (2200 FT)				For continuation, see AIP China

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
N167 (RNAV 5)						
▲ KURAB (FIR BDRY)	442311N 0610344E ARL 180.0° 148.2 NM (300 FT)					Before, see AIP Uzbekistan
	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}
△ 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}

Route designator		[Route Usage Notes]				
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ 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 In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Zhezkazgan Tower” on frequencies 4850 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ 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 In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kostanay Sector” on frequencies 4680 kHz and 4815 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
▲ 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}

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME 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 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}
▲ 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
N170 (RNAV 5)					
△ 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° 18.0 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)				

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	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}
▲ 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}
▲ OGLAB	465259N 0745902E BLH 360.0° 0.0 NM (1400 FT)					
	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)					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	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}
▲ ARNIR	494114N 0732226E KRG 360.0° 0.0 NM (1800 FT)					
	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}
▲ ASTAS	510006N 0712600E AST 360.0° 0.0 NM (1200 FT)					
	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}
▲ DAKOZ	532103N 0693701E KTU 360.0° 0.0 NM (900 FT)					
	300° 118°	42.9 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ KOKSHETAU TOWER 127.9 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	
				↓	↑		
△ 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)					
	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 4000 FT ALT	Even	Odd	TASHKENT ACC {C}		
▲ DIBAD		411700N 0675600E SMK 220.0° 94.0 NM (1400 FT)						
	276° 095°	61.0 NM	FL 510 4000 FT ALT	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		Controlling unit {Airspace class} Remarks		
				↓	↑			
N193 (RNAV 5)								
▲ KUNAS (FIR BDRY)		430923N 056000E BNU 156.0° 136.4 NM (0 FT)					Before, see AIP Uzbekistan	
	276° 094°	99.5 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119.8 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Aktau Tower” on frequencies 5536 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}		
△ BAPER		433011N 053464E AKT 094.0° 120.2 NM (100 FT)						
	274° 094°	22.0 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119.8 MHZ {C}		
△ MEDOL		433425N 0531659E AKT 094.0° 98.2 NM (100 FT)						
	273° 093°	26.9 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119.8 MHZ {C}		
△ ARLIF		433927N 0524039E AKT 092.0° 71.3 NM (100 FT)						
	273° 093°	11.6 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119.8 MHZ {C}		
▲ NEPIL		434133N 0522455E AKT 093.0° 59.7 NM (100 FT)						
	274° 093°	59.7 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 134.3 MHZ AKTAU TOWER 120.7 MHZ {C}		
▲ NOGBU		435220N 0510352E AKT 360.0° 0.0 NM (35 FT)						
	317° 136°	66.2 NM	FL 510 FL 120	Even	Odd	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
△ ATNUR		444559N 0500948E AKT 316.0° 66.2 NM (100 FT)			
	315° 135°	46.7 NM	FL 510 FL 120	Even Odd	AKTOBE ACC 134.3 MHZ {C}
▲ BABUR (FIR BDRY)		452312N 0493000E AKT 315.0° 112.9 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
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}
▲ KANET		521235N 0770542E PVL 360.0° 0.0 NM (500 FT)			
	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)			

Route designator		[Route Usage Notes]					
Significant Point Name		Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks	
				↓	↑		
	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 4000 FT ALT	Even	Odd	TASHKENT ACC {C}
▲ UMKAS (FIR BDRY)		414012N 0672149E SMK 239.0° 102.0 NM (1400 FT)				
	357° 176°	24.2 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}
△ INRUG		420425N 0672311E TRK 209.1° 91.8 NM (1000 FT)				
	356° 176°	29.8 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)				

Route designator	[Route Usage Notes]					
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	↓	↑	
	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}
△ 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 (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}
▲ ALZIS	474317N 0674542E DZG 360.0° 0.0 NM (1300 FT)					

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	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°	49.6 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ {C}
△ UTEMU	493757N 0671237E ARK 159.7° 41.8 NM (1300 FT)					
	341° 161°	20.5 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.5 MHZ ARKALYK TOWER 134.3 MHZ {C}
▲ 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 ARKALYK TOWER 134.3 MHZ {C}
▲ ARHIG	501904N 0670118E ARK 360.0° 0.0 NM (1300 FT)					
	017° 197°	39.2 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ ARKALYK TOWER 134.3 MHZ {C}
△ IRLEM	505353N 0672936E ARK 017.0° 39.2 NM (1300 FT)					
	016° 197°	31.5 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)					

Route designator		[Route Usage Notes]				
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	↓	↑	
	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}
▲ DAKOZ	532103N 0693701E KTU 360.0° 0.0 NM (900 FT)					
	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}
▲ PETEP	544703N 0691309E PSK 360.0° 0.0 NM (500 FT)					
	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}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ 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}
▲ ORTEG	444145N 0653349E KZO 360.0° 0.0 NM (500 FT)					
	020° 200°	44.3 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}
△ 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}
▲ ALZIS	474317N 0674542E DZG 360.0° 0.0 NM (1300 FT)					
	015° 194°	43.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ ZHEZKAZGAN TOWER 127.1 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
				↓	↑	
△ 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}
▲ 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)						

Route designator		[Route Usage Notes]					
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	↓	↑		
▲ KOKZA	450622N 0782548E TDK 360.0° 0.0 NM (2000 FT)						
	046° 226°	35.1 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ TALDYKORGAN TOWER 127.3 MHZ {C}	
▲ 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}	

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
▲ KABIZ	475552N 0802659E AGZ 360.0° 0.0 NM (2200 FT)					
	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)					
	296° 115°	47.3 NM	FL 510 FL 250	Even	Odd	ALMATY ACC 132.1 MHZ {C}
△ UGMON	492619N 0770343E SEM 240.1° 135.0 NM (700 FT)					
	295° 114°	40.6 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)						

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	
▲ 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
▲ NOGBU		435220N 0510352E AKT 360.0° 0.0 NM (35 FT)			
	025° 205°	67.3 NM	FL 510 FL 120	Odd	Even
△ AGILA		444901N 0515422E AKT 025.0° 67.3 NM (100 FT)			
	024° 204°	50.8 NM	FL 510 FL 120	Odd	Even
▲ GARDU		453219N 0523200E ATR 154.0° 101.0 NM (0 FT)			
	024° 204°	37.7 NM	FL 510 FL 120	Odd	Even
△ OTMAS		460419N 0530034E ATR 134.0° 81.5 NM (0 FT)			
	024° 204°	63.4 NM	FL 510 FL 120	Odd	Even
△ LEPSI		465750N 0534950E ATR 089.0° 83.9 NM (0 FT)			
	024° 204°	29.5 NM	FL 510 FL 120	Odd	Even
△ EPOLI		472234N 0541316E ATR 074.0° 99.9 NM (0 FT)			
	024° 204°	39.9 NM	FL 510 FL 120	Odd	Even
△ KODUM		475556N 0544537E ATR 061.0° 129.2 NM (0 FT)			

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	060° 241°	32.0 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Atyrau Tower” on frequencies 4688 kHz and 4830 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited at FL120. {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 In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Atyrau Tower” on frequencies 4688 kHz and 4830 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL120 and FL150. {C}
▲ ETELA	481055N 0554657E AKB 192.0° 136.6 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
				↓	↑	
	061° 242°	30.5 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Aktobe Tower” on frequencies 4656 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL 120 and FL 150. {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}
△ 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 Radar coverage limited between FL 120 and FL 130. {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 Radar coverage limited between FL 120 and FL 160. {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 Radar coverage limited between FL 120 and FL 180. {C}
△ DILIR	493452N 0625056E ARK 243.0° 167.6 NM (1300 FT)					

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	073° 253°	25.0 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHz In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kostanay Sector” on frequencies 4680 kHz and 4815 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL120 and FL160. {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 In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kostanay Sector” on frequencies 4680 kHz and 4815 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ 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}
▲ ARHIG	501904N 0670118E ARK 360.0° 0.0 NM (1300 FT)					

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	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)					
	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}
▲ ASTAS	510006N 0712600E AST 360.0° 0.0 NM (1200 FT)					
	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}
▲ KANET	521235N 0770542E PVL 360.0° 0.0 NM (500 FT)					

ENR-3.2.4 "P" 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
				↓	↑	
P178 (RNAV 5)	(2) Before, see AIP Uzbekistan					
▲ OGRIP	405454N 0680500E SMK 209.0° 106.6 NM (1400 FT)					Before, see AIP Uzbekistan
	044° 224°	42.9 NM	FL 510 7000 FT ALT	Odd	Even	TASHKENT ACC {C}
▲ DODUR (FIR BDRY)	412300N 0684800E SMK 200.0° 65.9 NM (1400 FT)					
	023° 203°	27.4 NM	FL 510 7000 FT ALT	Odd	Even	SHYMKENT ACC 132.7 MHZ {C}
△ REBDA	414708N 0690515E SMK 198.0° 38.6 NM (1400 FT)					
	023° 203°	11.3 NM	FL 510 7000 FT ALT	Odd	Even	SHYMKENT ACC 132.7 MHZ {C}
▲ DOSOR	415702N 0691225E SMK 196.0° 27.4 NM (1400 FT)					
	023° 203°	6.3 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ SHYMKENT TOWER 125.9 MHZ {C}
△ BOMKA	420232N 0691624E SMK 195.0° 21.2 NM (1400 FT)					
	015° 195°	21.2 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 132.7 MHZ SHYMKENT TOWER 125.9 MHZ {C}
▲ FODIK	422220N 0692631E SMK 360.0° 0.0 NM (1400 FT)					
	316° 135°	30.0 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
△ RUSEK	424549N 0690116E SMK 316.0° 30.0 NM (1400 FT)					
	312° 132°	10.5 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ SHYMKENT TOWER 125.9 MHZ {C}
▲ MAGOL	425338N 0685144E TRK 148.0° 28.7 NM (1000 FT)					
	328° 148°	28.7 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ TURKISTAN TOWER 131.3 MHZ {C}
▲ ELAHA	431932N 0683446E TRK 360.0° 0.0 NM (1000 FT)					
	323° 142°	21.8 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 127.3 MHZ TURKISTAN TOWER 131.3 MHZ {C}
▲ GOBOR	433811N 0681918E TRK 323.0° 21.8 NM (1000 FT)					
	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 TRK 337.0° 51.0 NM (1000 FT)					
	002° 181°	96.9 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}
▲ ADONU (FIR BDRY)	454418N 0683532E DZG 155.0° 123.9 NM (1300 FT)					
	001° 180°	215.2 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
▲ 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	
				↓	↑		
P179 (RNAV 5)		(2) Before, see AIP Russia (3) For continuation, see AIP Russia					
▲ 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 TOWER 119.8 MHZ {C}	
▲ KANET		521235N 0770542E PVL 360.0° 0.0 NM (500 FT)					
	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 PVL 287.0° 75.8 NM (500 FT)					
	287° 105°	41.6 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}	
△ OLKUM		530441N 0741300E PVL 288.0° 117.3 NM (500 FT)					
	285° 104°	55.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Pavlodar Tower” on frequencies 5720 kHz or “Kokshetau Tower” on frequencies 4760 kHz and 6528 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}	

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ LEPRA	532811N 072500E KTU 074.0° 115.7 NM (900 FT)					
	284° 103°	23.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
▲ POBUR	533800N 0721400E KTU 069.0° 95.3 NM (900 FT)					
	292° 111°	30.0 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ PETOR	535420N 0713136E KTU 053.0° 75.9 NM (900 FT)					
	292° 111°	32.6 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ {C}
△ BEDMU	541215N 0704523E PSK 111.0° 64.1 NM (500 FT)					
	292° 110°	64.1 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ PETROPAVLOVSK TOWER 123.7 MHZ {C}
▲ PETEP	544703N 0691309E PSK 360.0° 0.0 NM (500 FT)					
	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 PSK 276.0° 37.4 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
				↓	↑	
P180 (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
▲ ABEVO	405000N 0683442E SMK 197.0° 100.1 NM (1400 FT)				Before, see AIP Uzbekistan
	277° 097°	23.1 NM	FL 510 7000 FT ALT	Even Odd	TASHKENT ACC {C}
▲ OGRIP	405454N 0680500E SMK 209.0° 106.6 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
P180 (RNAV 5)					
▲ BUGEБ	410824N 0670836E SMK 228.0° 126.9 NM (1400 FT)				
	283° 102°	22.4 NM	FL 510 7000 FT ALT	Even Odd	TASHKENT ACC {C}
▲ MOMUL	411524N 0664024E SMK 235.0° 141.1 NM (1400 FT)				For continuation, see AIP Uzbekistan

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
P184 (RNAV 5)					
▲ MIMRI	433808N 0634822E KZO 222.0° 99.0 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
				↓	↑	
	043° 223°	57.3 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ {C}
△ DILNA	441450N 0644911E KZO 222.0° 41.8 NM (500 FT)					
	043° 223°	41.8 NM	FL 510 FL 120	Odd	Even	SHYMKENT ACC 127.3 MHZ KYZYLORDA TOWER 120.9 {C}
▲ ORTEG	444145N 0653349E KZO 360.0° 0.0 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
				↓	↑	
P574 (RNAV 5)	(C) Before, see AIP Azerbaijan					
▲ RUTIL (FIR BDRY)	421053N 0510433E AKT 172.0° 101.4 NM (100 FT)					Before, see AIP Azerbaijan
	354° 174°	39.7 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119.8 MHZ {C}
▲ AKUKU	425036N 0510509E AKT 171.0° 61.7 NM (100 FT)					
	352° 172°	61.7 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 134.3 MHZ AKTAU TOWER 120.7 MHZ {C}
▲ NOGBU	435220N 0510352E AKT 360.0° 0.0 NM (35 FT)					
	050° 230°	55.9 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 134.3 MHZ AKTAU TOWER 120.7 MHZ {C}
▲ RIBMO	442238N 0520908E AKT 050.0° 55.9 NM (100 FT)					
	048° 229°	49.6 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		
				↓	↑			
△ ALOTO	445010N 0530653E BNU 241.0° 90.5 NM (0 FT)							
	049° 229°	41.5 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}		
△ UTORI	451248N 0535555E BNU 253.0° 51.0 NM (0 FT)							
	049° 230°	36.3 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}		
△ AGNIM	453221N 0543918E BNU 293.0° 23.1 NM (0 FT)							
	050° 231°	108.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}		
▲ OGANU	462857N 0565153E BNU 039.0° 100.2 NM (0 FT)							
	051° 232°	74.8 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119 MHZ Radar coverage limited between FL120 and FL130. {C}		
△ LUMEZ	470537N 0582647E ARL 269.5° 131.3 NM (300 FT)							
	050° 231°	78.8 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119 MHZ Radar coverage limited at FL120. {C}		
△ ARSAN	474436N 0600738E ARL 303.0° 82.1 NM (300 FT)							
	053° 234°	115.5 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119 MHZ {C}		
▲ GEDSA (FIR BDRY)	483738N 0624054E ARL 013.0° 116.4 NM (300 FT)							

Route designator		[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	056° 237°	37.5 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kostanay Sector” on frequencies 4680 kHz and 4815 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ GOSPA	485256N 0633233E ARL 024.0° 145.9 NM (300 FT)					
	053° 234°	62.5 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Kostanay Sector” on frequencies 4680 kHz and 4815 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ ARBIM	492045N 0645739E ARK 223.0° 99.1 NM (1300 FT)					
	056° 237°	58.6 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
△ SUKUR	494431N 0661957E ARK 207.0° 43.7 NM (1300 FT)					
	056° 237°	33.7 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.5 MHZ {C}
▲ EDETO	495808N 0670732E ARK 159.0° 21.3 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
				↓	↑	
	061° 242°	47.2 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 133.1 MHZ {C}
▲ VAMRI	501330N 0681645E ARK 087.0° 48.7 NM (1300 FT)					
	059° 240°	39.6 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 124.1 MHZ {C}
△ ASTIK	502734N 0691434E ARK 075.0° 85.7 NM (1300 FT)					
	060° 240°	39.5 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ {C}
△ VETUB	504107N 0701250E AST 238.0° 50.1 NM (1200 FT)					
	057° 238°	50.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}
▲ ASTAS	510006N 0712600E AST 360.0° 0.0 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
				↓	↑	
P984 (RNAV 5)	© For coordination, see AIP Routes and CIP					
▲ MAMIR (FIR BDRY)	425438N 0763642E ATA 211.8° 34.8 NM (2200 FT)					
	032° 212°	22.0 NM	FL 510 FL 200	Odd	Even	ALMATY ACC 131.4 MHZ {C}
△ LAKEL	431216N 0765439E ATA 211.7° 12.8 NM (2200 FT)					
	031° 211°	12.8 NM	FL 510 FL 190	Odd	Even	ALMATY ACC 131.4 MHZ ALMATY APPROACH 124.8 MHZ {C}

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks	
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
△ IZIMA	432236N 0770503E ATA 332.2° 0.1 NM (2200 FT)					
	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 ATA 008.5° 13.5 NM (2200 FT)					
	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 ATA 008.5° 19.5 NM (2200 FT)					
	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 ATA 008.4° 42.3 NM (2200 FT)					
	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 TDK 220.0° 59.0 NM (2000 FT)					
	008° 188°	37.9 NM	FL 510 FL 120	Odd	Even	ALMATY ACC 133.1 MHZ {C}
△ FINON	450211N 0773900E TDK 258.0° 33.4 NM (2000 FT)					
	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 TDK 304.0° 34.2 NM (2000 FT)					
	346° 165°	49.1 NM	FL 510 FL 120	Even	Odd	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
				↓	↑	
	353° 173°	29.0 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 133.1 MHZ {C}
▲ RISUL	464525N 0773723E TDK 335.0° 104.7 NM (2000 FT)					
	353° 173°	40.1 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ {C}
△ OBAPI	472530N 0773700E BLH 065.0° 112.7 NM (1400 FT)					
	353° 172°	76.8 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Semey Tower” on frequencies 6645 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ DODEM	484212N 0773614E AGZ 285.0° 123.0 NM (2200 FT)					
	351° 171°	36.2 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 132.1 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Semey Tower” on frequencies 6645 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL120 and FL150. {C}
△ AKASA	491819N 0773455E SEM 231.0° 120.9 NM (700 FT)					

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	
	351° 171°	42.0 NM	FL 510 FL 120	Even	Odd
					ALMATY ACC 132.1 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Semey Tower” on frequencies 6645 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ ADETA	500015N 0773321E SEM 250.0° 105.7 NM (700 FT)				
	344° 164°	23.1 NM	FL 510 FL 120	Even	Odd
					ALMATY ACC 132.1 MHZ {C}
▲ BALOL (FIR BDRY)	502308N 0772831E SEM 263.0° 106.4 NM (700 FT)				
	344° 164°	25.7 NM	FL 510 FL 120	Even	Odd
					ASTANA ACC 132.8 MHZ {C}
△ DILGI	504833N 0772303E PVL 164.0° 84.8 NM (500 FT)				
	344° 164°	22.3 NM	FL 510 FL 120	Even	Odd
					ASTANA ACC 132.8 MHZ {C}
△ GALKI	511035N 0771814E PVL 164.0° 62.6 NM (500 FT)				
	344° 163°	12.6 NM	FL 510 FL 120	Even	Odd
					ASTANA ACC 132.8 MHZ {C}
△ KEKAM	512300N 0771529E PVL 164.0° 50.0 NM (500 FT)				
	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 PVL 165.0° 29.3 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 ↓ ↑	
	345° 165°	29.3 NM	FL 510 FL 120	Even	Odd
▲ KANET	521235N 0770542E PVL 360.0° 0.0 NM (500 FT)				
	313° 131°	70.4 NM	FL 510 FL 120	Even	Odd
△ BAGNU	530720N 0755304E PVL 311.0° 70.4 NM (500 FT)				
	311° 130°	53.9 NM	FL 510 FL 120	Even	Odd
▲ SOMOL (FIR BDRY)	534918N 0745629E PVL 311.0° 124.4 NM (500 FT)				For continuation, see AIP Russia and CIS

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ENR-3.2.6 "T" 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
				↓	↑	
T522 (RNAV 5)	(1) For continuation, see AIP Russia					
▲ ARHIG	501904N 0670118E ARK 360.0° 0.0 NM (1300 FT)					
	346° 164°	126.6 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 133.1 MHz {C}
△ LATKO	522508N 0664427E KTU 229.0° 118.6 NM (900 FT)					
	354° 173°	53.5 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHz {C}
▲ BAVAG	531819N 0665235E KTU 256.0° 98.6 NM (900 FT)					
	347° 166°	88.3 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	FL series		Controlling unit {Airspace class} Remarks
			Lower limit	↓	↑	
T523 (RNAV 5)						
▲ ARNIR	494114N 0732226E KRG 360.0° 0.0 NM (1800 FT)					
	299° 117°	53.7 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
				↓	↑	
▲ BEDKA	501318N 0721545E KRG 297.0° 53.7 NM (1800 FT)					
	298° 117°	53.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}
△ LIGMO	504539N 0710837E AST 207.0° 18.2 NM (1200 FT)					
	296° 116°	17.7 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}
△ APTUS	505558N 0704601E AST 251.0° 25.6 NM (1200 FT)					
	294° 113°	37.3 NM	FL 510 FL 120	Even	Odd	ASTANA ACC 132.8 MHZ ASTANA APPROACH 124.6 MHZ {C}
△ KODOL	511638N 0695651E AST 276.0° 58.5 NM (1200 FT)					
	296° 114°	72.5 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
				↓	↑	
T524 (RNAV 5)						
▲ USUGA	433600N 0761934E ATA 287.3° 35.8 NM (2200 FT)					
	289° 108°	31.5 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	
				↓	↑		
△ BEKRO		434850N 0753952E ATA 288.4° 67.3 NM (2200 FT)					
	288° 107°	45.2 NM	FL 510 FL 120	Even	Odd	ALMATY ACC 131.4 MHZ {C}	
▲ BOBRO (FIR BDRY)		440648N 0744228E ATA 288.9° 112.5 NM (2200 FT)					
	287° 107°	33.9 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Approach” on frequencies 4744 kHz. - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}	
▲ ALAKO		441958N 0735903E ATA 289.1° 146.4 NM (2200 FT)					
	287° 103°	150.3 NM	FL 510 FL 120	Even	Odd	SHYMKENT ACC 132.7 MHZ {C}	
▲ PABRI (FIR BDRY)		451455N 0704239E TAR 344.0° 144.8 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
				↓	↑	
T586 (RNAV 5)	(2) 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
				↓	↑	
▲ ALABA	481845N 0553938E					
	AKB 196.0° 131.5 NM (700 FT)					
	049° 229°	25.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Aktobe Tower” on frequencies 4656 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ LOGTO	483204N 0561202E					
	048° 229°	96.1 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
△ KEKUN	492143N 0581653E					
	AKB 131.0° 69.0 NM (700 FT)					
	050° 230°	41.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
△ ENETO	494223N 0591154E					
	AKB 103.0° 84.9 NM (700 FT)					
	050° 231°	38.5 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ {C}
△ KESOT	500111N 0600343E					
	AKB 088.0° 112.1 NM (700 FT)					
	051° 231°	45.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 129.6 MHZ Radar coverage limited at FL120. {C}
△ BESOL	502254N 0610548E					
	AKB 078.0° 150.7 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 ↓ ↑	
	051° 232°	37.8 NM	FL 510 FL 120	Odd	Even
▲ RAVNI (FIR BDRY)	504030N 0615807E KST 188.0° 162.1 NM (600 FT)				AKTOBE ACC 129.6 MHZ Radar coverage limited between FL120 and FL180. {C}
	047° 228°	52.1 NM	FL 510 FL 120	Odd	Even
△ GUMGA	510752N 0630806E KST 175.0° 124.7 NM (600 FT)				ASTANA ACC 133.1 MHZ Radar coverage limited at FL120. {C}
	047° 228°	46.5 NM	FL 510 FL 120	Odd	Even
△ NARUR	513200N 0641130E KST 155.0° 102.0 NM (600 FT)				ASTANA ACC 133.1 MHZ {C}
	049° 230°	25.1 NM	FL 510 FL 120	Odd	Even
△ KUSUM	514420N 0644639E KST 141.0° 97.8 NM (600 FT)				ASTANA ACC 133.1 MHZ {C}
	049° 230°	83.4 NM	FL 510 FL 120	Odd	Even
△ LATKO	522508N 0664427E KTU 229.0° 118.6 NM (900 FT)				ASTANA ACC 133.1 MHZ {C}
	050° 230°	23.9 NM	FL 510 FL 120	Odd	Even
▲ MONEG	523627N 0671849E KTU 229.0° 94.7 NM (900 FT)				ASTANA ACC 132.8 MHZ {C}
	050° 231°	50.2 NM	FL 510 FL 120	Odd	Even
△ LALKA	530017N 0683140E KTU 230.0° 44.5 NM (900 FT)				ASTANA ACC 132.8 MHZ KOKSHETAU TOWER 127.9 MHZ {C}
	050° 231°	44.5 NM	FL 510 FL 120	Odd	Even

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
▲ DAKOZ	532103N 0693701E KTU 360.0° 0.0 NM (900 FT)				
	052° 233°	41.9 NM	FL 510 FL 120	Odd Even	ASTANA ACC 132.8 MHZ KOKSHETAU TOWER 127.9 MHZ {C}
△ ADEBA	533925N 0704004E KTU 053.0° 41.9 NM (900 FT)				
	052° 233°	34.0 NM	FL 510 FL 120	Odd Even	ASTANA ACC 132.8 MHZ {C}
△ PETOR	535420N 0713136E KTU 053.0° 75.9 NM (900 FT)				
	052° 233°	34.6 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)				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
T649 (RNAV 5)	(C) For continuation, see AIP Russia				
▲ ARNIR	494114N 0732226E KRG 360.0° 0.0 NM (1800 FT)				
	049° 230°	43.3 NM	FL 510 FL 120	Odd Even	ASTANA ACC 124.1 MHZ KARAGANDA TOWER 122.0 MHZ {C}
△ GOLTU	500404N 0741911E KRG 050.0° 43.2 NM (1800 FT)				
	049° 230°	37.7 NM	FL 510 FL 120	Odd Even	ASTANA ACC 124.1 MHZ {C}
△ BODNU	502346N 0750918E KRG 050.0° 81.0 NM (1800 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	↓	↑	
	051° 231°	19.2 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 124.1 MHZ {C}
▲ ODAMA	503331N 0753513E KRG 051.0° 100.2 NM (1800 FT)					
	051° 232°	44.0 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ {C}
△ GOBSO	505523N 0763521E PVL 184.0° 79.6 NM (500 FT)					
	052° 232°	31.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ {C}
△ GALKI	511035N 0771814E PVL 164.0° 62.6 NM (500 FT)					
	052° 233°	42.1 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ {C}
△ ABDAM	513051N 0781707E PVL 125.0° 60.9 NM (500 FT)					
	053° 234°	40.8 NM	FL 510 FL 120	Odd	Even	ASTANA ACC 132.8 MHZ {C}
▲ LAGMO (FIR BDRY)	514954N 0791500E PVL 098.0° 83.0 NM (500 FT)					For continuation, see AIP Russia

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

Route designator	[Route Usage Notes]				
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation				Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series ↓ ↑	Controlling unit {Airspace class} Remarks
T916 (RNAV 5)					
▲ AKALI (FIR BDRY)	440829N 0611937E ARL 175.0° 161.5 NM (300 FT)				
	078°	12.9 NM	FL 510 FL 250	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ FAZUL	440916N 0613731E ARL 171.0° 160.3 NM (300 FT)				
	079°	29.4 NM	FL 510 FL 250	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ TOZLI	441054N 0621817E KZO 251.0° 143.4 NM (500 FT)				
	080°	37.4 NM	FL 510 FL 250	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ ZURGO	441233N 0631012E KZO 248.0° 106.9 NM (500 FT)				
	081°	43.2 NM	FL 510 FL 250	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ ERTUZ	441307N 0641019E KZO 238.0° 66.3 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
	079°	28.0 NM	FL 510 FL 120	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ DILNA	441450N 0644911E KZO 222.0° 41.8 NM (500 FT)				
	080°	69.4 NM	FL 510 FL 150	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ GITIM	441752N 0662540E KZO 116.0° 44.1 NM (500 FT)				
	082°	47.3 NM	FL 510 FL 120	Odd	SHYMKENT ACC 127.3 MHZ {C}
△ BIMDO	441809N 0673135E TRK 315.0° 74.3 NM (1000 FT)				
	078°	59.9 NM	FL 510 FL 120	Odd	SHYMKENT ACC 127.3 MHZ {C}
▲ TUROK	442214N 0685447E TRK 007.0° 64.3 NM (1000 FT)				
	087°	60.8 NM	FL 510 FL 120	Odd	SHYMKENT ACC 132.7 MHZ {C}
△ INLIG	441743N 0701919E TAR 328.0° 94.9 NM (2200 FT)				
	088°	46.4 NM	FL 510 FL 120	Odd	SHYMKENT ACC 132.7 MHZ {C}
△ MIHOS	441332N 0712336E TAR 358.0° 81.4 NM (2200 FT)				
	089°	68.4 NM	FL 510 FL 120	Odd	SHYMKENT ACC 132.7 MHZ {C}
△ INDAG	440635N 0725812E TAR 038.0° 104.8 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
	090°	67.0 NM	FL 510 FL 120	Odd	SHYMKENT ACC 132.7 MHZ In case of possible VHF radio communication failure at FL 120–FL 190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Approach” on frequencies 4744 kHz. - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
▲ LONSI (FIR BDRY)	435826N 0743022E ATA 284.0° 117.9 NM (2200 FT)				
	091°	65.5 NM	FL 510 FL 250	Odd	ALMATY ACC 131.4 MHZ {C}
△ REGMU	435005N 0760012E ATA 295.6° 54.6 NM (2200 FT)				
	094°	52.3 NM	FL 510 FL 250	Odd	ALMATY ACC 131.4 MHZ {C}
△ NIGET	434124N 0771126E ATA 008.5° 19.5 NM (2200 FT)				
	095°	38.8 NM	FL 510 FL 250	Odd	ALMATY ACC 131.4 MHZ {C}
△ PIGAL	433428N 0780356E ATA 068.9° 44.5 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
				↓	↑	
	024° 204°	46.8 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 130.9 MHZ In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Atyrau Tower” on frequencies 4688 kHz and 4830 kHz (as a backup), in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. Radar coverage limited between FL120 and FL150. {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 In case of possible VHF radio communication failure at FL120–FL190, the aircraft crew is recommended to: - establish communication via other aircraft; - use HF radio to relay messages through “Aktobe Tower” on frequencies 4656 kHz in accordance with ATC unit operational procedures; - if HF radio equipment is not available on board, plan the flight using alternative routes. {C}
△ 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 128.0 MHZ {C}
▲ EKTOB		501548N 0571055E AKB 360.0° 0.0 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
				↓	↑	
Z243 (RNAV 5)						
▲ OGLAB		465259N 0745902E BLH 360.0° 0.0 NM (1400 FT)				
	066° 246°	44.2 NM	FL 510 FL 120	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	FL 510 FL 120	Odd	Even	ALMATY ACC 125.5 MHZ {C}
▲ 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}
△ IBDAS		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}
▲ KABIZ		475552N 0802659E AGZ 360.0° 0.0 NM (2200 FT)				
	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}
▲ FORMO		470534N 0813933E AGZ 129.1° 70.4 NM (2200 FT)				

ENR 4 RADIO NAVIGATION AIDS/SYSTEMS**ENR 4.1 RADIO NAVIGATION AIDS — EN-ROUTE**

Name of station (VAR) (VOR: Declination)	ID	Frequency (CH)	Hours of operation	Coordinates	ELEV DME antenna	Remarks
1	2	3	4	5	6	7
AKTAU DVOR/DME (8E/2021)	AKT	113.3 MHZ CH 80X	H24	435220N 0510352E	100 FT	
AKTOBE DVOR/DME (11E/2020)	AKB	113,4 MHZ CH 81X	H24	501548N 0571055E	700 FT	
ALMATY DVOR/DME (5E/2023)	ATA	116.4 MHZ CH 111X	H24	432229N 0770507E	2200 FT	
ARALSK DVOR/DME (9E/2020)	ARL	113.6 MHZ CH 83X	H24	464932N 0613705E	300 FT	
ARKALYK DVOR/DME (10E/2014)	ARK	113 MHZ CH 77X	H24	501904N 0670118E	1300 FT	
ASTANA DVOR/DME (10E/2013)	AST	114.4 MHZ CH 91X	H24	510006N 0712600E	1200 FT	
ATYRAU DVOR/DME (9E/2013)	ATR	112,3 MHZ CH 70X	H24	470838N 0514805E	0 FT	
AYAGUZ VOR/DME (6E/2014)	AGZ	113.6 MHZ CH 83X	H24	475552N 0802659E	2200 FT	
BALKHASH DVOR/DME (7E/2020)	BLH	113.7 MHZ CH 84X	H24	465259N 0745902E	1400 FT	
BEINEU VOR/DME (7E/1999)	BNU	115 MHZ CH 97X	H24	452023N 0550721E	0 FT	
JARKENT DVOR/DME	JRK	114,8 MHZ CH 95X	H24	441344N 0795719E	2600 FT	
KARAGANDA DVOR/DME (8E/2013)	KRG	113.4 MHZ CH 81X	H24	494114N 0732226E	1800 FT	
KOKSHETAU VOR/DME (11E/2013)	KTU	115,5 MHZ CH 102X	H24	532103N 0693701E	900 FT	
KOSTANAY DVOR/DME (13E/2022)	KST	114.8 MHZ CH 95X	H24	531113N 0633346E	600 FT	
KYZYLORDA DVOR/DME (7E/2022)	KZO	112.7 MHZ CH 74X	H24	444145N 0653349E	500 FT	

Name of station (VAR) (VOR: Declination)	ID	Frequency (CH)	Hours of operation	Coordinates	ELEV DME antenna	Remarks
1	2	3	4	5	6	7
PAVLODAR DVOR/DME (9E/2013)	PVL	114 MHZ CH 87X	H24	521235N 0770542E	500 FT	
PETROPAVLOVSK DVOR/DME (12E/2017)	PSK	112,5 MHZ CH 72X	H24	544703N 0691309E	500 FT	
SATPAY DVOR/DME (5E/2017)	ZSN	112.3MHZ CH 70X	H24	473627N 0843546E	1400 FT	
SEMEY DVOR/DME (7E/2014)	SEM	115,3 MHZ CH 100X	H24	502059N 0801438E	700 FT	
SHYMKENT DVOR/DME (6E/2013)	SMK	113 MHZ CH 77X	H24	422220N 0692631E	1400 FT	
TALDYKORGAN DVOR/DME (5E/2014)	TDK	116,1 MHZ CH 108X	H24	450622N 0782548E	2000 FT	
TARAZ DVOR/DME (6E/2013)	TAR	115,9 MHZ CH 106X	H24	425214N 0711654E	2200 FT	
TURKISTAN DVOR/DME (6E/2019)	TRK	114,6 MHZ CH 93X	H24	431932N 0683446E	1000 FT	
URALSK DVOR/DME (11E/2015)	URL	114,2 MHZ CH 89X	H24	510855N 0513238E	200 FT	
URDZHAR NDB (5E/2017)	UGN	460 KHZ	HO	470534N 0813933E		
UST-KAMENOGORSK DVOR/DME (6E/2021)	UKM	115 MHZ CH 97X	H24	500158N 0823031E	1000 FT	
ZHEZKAZGAN DVOR/DME (9E/2023)	DZG	113.3 MHZ CH 80X	H24	474317N 0674542E	1300 FT	

ENR 4.4 NAME CODE DESIGNATORS FOR SIGNIFICANT POINTS

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
ABDAM	513051N 0781707E	T649, Z584	
ABDIB	435743N 0505211E		TMA UATE
ABDUN	461337N 0594316E	L139, M161, N161	
ABEBA	442957N 0740248E	M34	
ABEKA	410705N 0684442E	M168	
ABELI	513524N 0751312E	L988, N996, W358, Z160, Z746	TMA UASP
ABENU	502909N 0684952E	L86	
ABEVO	405000N 0683442E	P180	
ABGEN	405742N 0684248E	M168	
ABIGU	474742N 0630108E	L51, N167	
ABIRA	502331N 0622455E	M166	
ABMIK	455616N 0743604E	M34, N102, Z583	TMA UAAH
ABONA	461133N 0751857E	N170	TMA UAAH
ABOTO	492544N 0830521E	Z727	TMA UASK
ABRAS	514331N 0771053E	L988, P984	
ABREK	462025N 0763143E	N126	
ABULA	495910N 0682343E	L86	
ABULU	480139N 0555532E	L992	
ABURA	473345N 0664312E	N161	TMA UAKD
ADABA	435820N 0762009E	L143, N170, Z583, Z584	TMA UAAA
ADAKA	434416N 0624955E	L855, M161	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
ADARO	504706N 0815242E	B833, G96, N37, Z727	TMA UASK, TMA UASS
ADASA	524618N 0751436E	P179	TMA UASP
ADAZA	434304N 0645326E	N990	
ADEBA	533925N 0704004E	T586	TMA UACK
ADEDA	423438N 0514628E	N73, Z581	
ADEKU	502301N 0641824E	M166, N167	
ADESA	420940N 0694854E	L139, Z580	TMA UAI
ADETA	500015N 0773321E	M149, N37, P984	
ADIRO	445011N 0752356E	M149, N143	
ADLAN	495132N 0792510E	N102	TMA UASS
ADLIK	482457N 0614611E	L985	
ADLIL	475940N 0841509E	Z208, Z727	TMA UASI
ADLIM	443715N 0652222E		TMA UAOO
ADLON	530129N 0704047E	N985, Z160	TMA UACK
ADODA	523230N 0750554E	N985, W361, Z584	TMA UASP
ADOKA	482224N 0671842E	L145	TMA UAKD
ADOLU	502039N 0795401E		TMA UASS
ADONU	454418N 0683532E	P178	
ADPAK	444919N 0520844E	N102, Q198	
ADRAT	500334N 0581528E	M993	TMA UATT
ADREM	442548N 0643118E	L163, M75	
ADRIK	480432N 0684119E	L51, W351	TMA UAKD

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	TMA UAAL
AGATU	493220N 0594622E	L147, L162	
AGEBO	474010N 0672652E		TMA UAKD
AGERA	430738N 0672650E	N147, N987	
AGILA	444901N 0515422E	N996, Q198	TMA UATE
AGINU	494800N 0761100E	M34, N37, N993	
AGLAL	491642N 0615044E	L985, M993	
AGLEK	433045N 0744744E	Z370, Z817	
AGMAN	490942N 0550920E	M161, N60	
AGMEN	471352N 0513428E		TMA UATG
AGMUR	450056N 0644106E	L86, L139	TMA UAOO
AGNAT	463927N 0775115E	L143	
AGNIM	453221N 0543918E	L992, P574	
AGPIN	483931N 0754146E	M34	
AGTAZ	423211N 0725439E		See route V-15 in the list of airways of the Kyrgyz Republic - KAN.KG/RU/AIS
AGUNA	435906N 0754739E	M149, M618, Z589	TMA UAAA
AGURO	511525N 0715011E		TMA UACC
AGURU	532928N 0694548E		TMA UACK

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
AGUSA	471400N 0820338E	M166	
AKALI	440829N 0611937E	L165, L985	
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	TMA UAUU
AKSOZ	435449N 0691321E	M610	
AKUKU	425036N 0510509E	P574	TMA UATE
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	TMA UATT
ALILA	454830N 0800916E	L26	
ALOLI	431841N 0764421E		TMA UAAA
ALOTO	445010N 0530653E	N73, P574, Q198	
ALUGI	434745N 0780816E	Z315	TMA UAAA

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
ALZIS	474317N 0674542E	L51, L145, M75, M168, M993, N161, N987, N990, Z164	
AMABU	445737N 0781952E		TMA UAAT
AMASO	474914N 0684857E	M993, N161	TMA UAKD
AMIGU	491645N 0692517E	M75, P178, Z586	
AMIKA	432238N 0761952E		TMA UAAA
AMOHA	454502N 0505523E	L736	
AMOLA	523853N 0715604E	M75, Z160	
AMREK	452109N 0660226E	N990, W332	TMA UAOO
AMUTU	504649N 0711721E		TMA UACC
ANELI	444956N 0743510E	Z589	
ANESA	424006N 0703654E	N143, Z580	TMA UADD
ANIDU	451707N 0783318E		TMA UAAT
ANIGA	452130N 0534647E	M158, M610	
ANIGO	460143N 0660207E	M75, M741	
ANTOH	530853N 0685629E		RR-3, RR-7
APSEN	440338N 0771854E	P984	
APTOG	422520N 0691235E		TMA UAII
APTOK	503035N 0750940E	Z160	
APTUS	505558N 0704601E	L988, N996, T523	TMA UACC
ARBIM	492045N 0645739E	L26, M741, P574	
ARBOL	433055N 0705137E	L145, L728, M610, N102, Z621	TMA UADD
ARDIK	521459N 0642204E	L145	TMA UAUU

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
ARGER	493808N 0725855E		TMA UAKK
ARHIG	501904N 0670118E	M166, M168, N987, N996, T522	
ARHIM	492317N 0830743E	N143, Z727	
ARISA	512924N 0503254E	G3, L736, M166	TMA UARR RR-1, RR-5, RR-8
ARKAM	471135N 0643220E	N161	
ARKER	471757N 0580839E	M161, N55	
ARLIF	433927N 0524039E	N161, N193	
ARLIH	492724N 0742621E	M166, W348	TMA UAKK
ARMIK	474512N 0664137E	L51	TMA UAKD
ARNIR	494114N 0732226E	L51, L993, M166, N37, N170, T523, T649, Z553, Z588	
ARNUS	430052N 0533509E	L992, T916	
ARSAN	474436N 0600738E	L51, M199, P574	
ARSUL	422600N 0685000E	Z380, Z578, Z632	TMA UAI
ARTOT	425650N 0710100E		TMA UADD
ARVAR	432233N 0691027E	Z621	TMA UAIT
ASDET	511633N 0713946E		TMA UACC
ASDIB	511544N 0514610E		TMA UARR
ASDON	532134N 0631638E		TMA UAUU
ASDUK	520012N 0765857E		TMA UASP
ASLIK	470509N 0681542E	L145	TMA UAKD
ASLOK	410548N 0671954E	M741, N987	RR-6
ASNAP	502302N 0565926E		TMA UATT

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
ASTIK	502734N 0691434E	L998, P574	
ASTAS	510006N 0712600E	L988, L994, M75, N170, N996, P574, Z586	
ATBAN	515824N 0682152E	L994, N987, Z624, T523	
ATBER	530311N 0634911E		TMA UAUU
ATNAL	435307N 0533948E	N55, N154	
ATNON	521149N 0673350E	L994, N55	
ATNUR	444559N 0500948E	L864, N193, Q198	TMA UATE
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	TMA UATE RR-4
AZITI	433936N 0764351E		RR-2, RR-7
AZORI	480139N 0721512E	Z583	
BABUR	452312N 0493000E	N102, N193	
BADAS	442221N 0643656E	L163, L855	TMA UAOO
BAGED	471628N 0650016E	L728, N161	
BAGIL	473425N 0741044E	L998	TMA UAAH
BAGIR	490131N 0514106E	M158, W324	
BAGNA	434754N 0775719E	Z315, Z370	TMA UAAA
BAGNU	530720N 0755304E	P984	TMA UASP
BAGOB	495029N 0823755E		TMA UASK

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
BAGUT	502745N 0803139E		TMA UASS
BAKID	462633N 0622354E	N167	
BAKIS	440031N 0764333E	L998, W333	
BALGO	430234N 0733602E	M34	
BALIG	431944N 0515018E	Q161	TMA UATE RR-2, RR-4
BALMI	531107N 0704613E	W361, Z584	TMA UACK
BALOK	521416N 0635540E	M741	TMA UAUU
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	TMA UAUU
BAMOM	505814N 0512427E		TMA UARR
BAMUT	415121N 0692445E	Z554, Z580	TMA UAI
BANOS	501116N 0723844E	N170, W333	TMA UACC, TMA UAKK
BANOV	503704N 0830918E	L135	TMA UASK
BANUM	474633N 0804834E	M166, M618	
BAPER	433011N 0534642E	L992, N193	
BARAR	425030N 0700344E	N102	TMA UAI
BARKI	545153N 0710000E	A357, N60	TMA UACP
BARSI	530153N 0695555E		TMA UACK

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
BARUR	443207N 0791739E	N126	
BASAN	433420N 0735429E	L147	
BASPA	502144N 0704001E	M75, Z624	TMA UACC
BASPI	433257N 0791501E	L138, M610	
BASPU	471514N 0525046E	L51	TMA UATG
BASUN	440216N 0505614E		TMA UATE
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	TMA UACC, TMA UAKK
BEDMU	541215N 0704523E	P179	TMA UACP
BEDNU	420007N 0692621E	Z554	TMA UAI
BEDOR	482529N 0673251E	M168, N987, W332	TMA UAKD
BEDRU	490642N 0623638E	M993	
BEDUR	433546N 0765739E	L998, M610	
BEKAS	514029N 0515327E	L163, M56	
BEKOR	494513N 0623050E	L26, L988, N55	
BEKRO	434850N 0753952E	T524	TMA UAAA
BERTO	433159N 0794824E	M610, Z315	
BERVI	434059N 0741156E	M610	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
BESOL	502254N 0610548E	M166, T586	
BETIK	480807N 0665309E	L86, Z164	TMA UAKD
BETPU	455758N 0675945E	M168	
BIKLU	532548N 0633314E		TMA UAUU
BIKRI	472814N 0752625E	M149	TMA UAAH
BIKTO	531235N 0691745E		TMA UACK
BILGA	483452N 0552426E	Z210	
BILMO	430414N 0711143E		TMA UADD
BIMDO	441809N 0673135E	M610, N987	
BIMSO	531631N 0652038E	W361, Z584	TMA UAUU
BINBU	530105N 0634057E		TMA UAUU
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	TMA UATT
BOLNA	433712N 0625812E	M161	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
BOLSU	511507N 0725620E	L988, N996, W358, Z553	TMA UACC
BOMKA	420232N 0691624E	P178	TMA UAI
BONZU	481815N 0833043E	Z208	
BORIS	425127N 0660533E	N147	
BUDER	521310N 0632052E	L165	TMA UAUU
BUDET	445507N 0645824E	L139, M75	TMA UAOO
BUDUL	471917N 0514811E		TMA UATG
BUGEB	410824N 0670836E	P180	
BUKEN	440406N 0650744E	N990	
BULOG	500854N 0660036E	L145, N996	TMA UAUR
BURID	470234N 0810051E	N161, N993, Z370	TMA UASU
BURIK	470012N 0675152E	M168	UAKD
BUSAB	444159N 0651844E		TMA UAOO
DAKIN	540930N 0722418E	L86, M75, N55, N990, T586	
DAKOZ	532103N 0693701E	N170, N987, T586, Z160, Z584, Z588	
DEKED	433653N 0741306E	Z370	
DEMAS	424732N 0712008E	L145	
DEPIR	540211N 0662405E	N60, N167, W355	
DERAD	474634N 0703805E	N161	
DEREG	431138N 0681857E		TMA UAIT
DESER	445502N 0753100E	N143, Z583	
DESOK	441629N 0775521E	L135	TMA UAAA

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
DETAK	434823N 0765029E	L855, L998	
DETOV	501555N 0731235E	Z553	TMA UAKK
DEVNA	500647N 0833619E	M993	TMA UASK
DIBAD	411700N 0675600E	N193, Z554	
DIBUK	472631N 0754536E	N102	TMA UAAH
DIDAL	512908N 0695453E	L994	TMA UACC
DIDOB	544558N 0693143E		TMA UACP
DIDOP	433941N 0633027E	L162	
DIKAM	443650N 0663555E	L855	TMA UAOO
DILGI	504833N 0772303E	L994, P984	
DILIR	493452N 0625056E	L165, N996	
DILNA	441450N 0644911E	L163, P184, T916	TMA UAOO
DILOL	433936N 0512339E		TMA UATE
DILVA	533219N 0693807E		TMA UACK
DIMPA	463633N 0495959E	L864, L988	
DINBO	480029N 0664647E	M993	TMA UAKD
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

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
DITSO	470443N 0671637E	N990, W332	TMA UAKD
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
DODUR	412300N 0684800E	L163, M168, P178, Z554, Z578, Z580	
DOGEL	442430N 0525059E	N37, N73	
DOKUS	502539N 0513528E	M158, W324	TMA UARR
DOKUT	524814N 0651230E	L994, L998	TMA UAUU
DOLEP	470047N 0520352E		TMA UATG
DONUP	423759N 0694912E	N102	TMA UAIL
DONUR	473022N 0750038E	Z160	TMA UAAH
DOPAN	521213N 0625401E	Z582	TMA UAUU
DOPAR	481831N 0682229E	M75	TMA UAKD
DOSAK	520044N 0781212E	P179, N985	TMA UASP
DOSOR	415702N 0691225E	P178	TMA UAIL
DOTAL	440745N 0780904E	Z160, Z370	TMA UAAA
DOZIN	492040N 0721800E	L51, N37, W351	TMA UAKK
EDADU	430032N 0710621E		TMA UADD
EDAKO	504120N 0522510E	M161	TMA UARR

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
EDANO	510858N 0725804E	L994, Z553, Z746	TMA UACC
EDETO	495808N 0670732E	M168, N987, P574, W332	
EDIBA	424519N 0682349E	Z380	TMA UAI
EDOLO	465805N 0515702E		TMA UATG
EDOSA	521955N 0771645E		TMA UASP
EKDAC	482100N 0562959E	N996, M161	
EKLAT	432230N 0753237E	Z370	TMA UAAA
EKLOP	482530N 0651734E	M741, M993	
EKNIL	444003N 0732651E	N102	
EKNIZ	442452N 0612711E	L165, M875	
EKNOD	494703N 0733707E		TMA UAKK
EKPIN	482805N 0535721E	N60	
EKTAB	494555N 0750718E	N37, Z160	
EKTEN	513242N 0523030E	A122, M158, Z102	TMA UARR
EKTOB	501548N 0571055E	L26, L147, L992, M166, M199, M993, N60, N73, Z210	
EKSOZ	531113N 0633346E	L145, L165, L994, M741, N60, N126, Z582, Z584	
EKTUN	422343N 0694857E		TMA UAI
EKTUS	514225N 0765305E	L988, M34	
ELAHA	431932N 0683446E	N147, P178, Z761	
ELENU	435017N 0741838E	L855	
ELSEB	463234N 0675439E	L147, M168	
ELSUT	511342N 0805506E	G121, L143	TMA UASS

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
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	TMA UAOO
ERNEN	504754N 0642731E	M741, N55	
EROMI	461234N 0762117E	Z160	
ERSAS	532341N 0632455E		TMA UAUU
ERTUZ	441307N 0641019E	L86, L855, T916	
ERUTA	480837N 0604210E	L162	
ESADO	470607N 0760037E	W336, Z243	TMA UAAH
ESKIZ	420521N 0670429E	M741, N102	TMA UAIK
ESUMA	491025N 0765006E	M149, M993	
ETEDA	442024N 0763206E	L143, L998, W333	TMA UAAA
ETELA	481055N 0554657E	N996	
ETORI	503208N 0790845E	L994	TMA UASS
ETOTU	525858N 0633244E		TMA UAUU
ETRAN	463321N 0780521E	N143	
FAZUL	440916N 0613731E	M875, T916	
FINON	450211N 0773900E	P984	TMA UAAT
FODIK	422220N 0692631E	L139, N102, N143, P178, Z380, Z554	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
FORMO	470534N 0813933E	Z208, Z243, Z370	
FULSA	453758N 0784751E	L135	TMA UAAT
GAGSU	522335N 0771018E		TMA UASP
GAKMA	440610N 0774907E	L135	TMA UAAA
GALKI	511035N 0771814E	P984, T649	
GALSU	461126N 0804952E	N993	TMA UAAL
GAMBU	441106N 0702401E	L145, L855	
GANGA	530026N 0695146E		TMA UACK
GARDU	453219N 0523200E	N996, Z102	
GASBI	422611N 0502811E	A357, N60, N161	TMA UATE RR-2
GASBU	434640N 0791528E	Z315	
GEDNO	502211N 0740032E	N993	
GEDSA	483738N 0624054E	L147, L165, L728, P574	
GEGSI	471634N 0514119E		TMA UATG
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	TMA UADD
GIGDA	461942N 0801638E	Z370	TMA UAAL

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
GIGRI	441248N 0521256E	N37	TMA UATE
GIGUR	444920N 0645300E	M75, M610	TMA UAOO
GIKON	531041N 0700822E		TMA UACK
GILAK	465738N 0815536E	N161	
GILAT	415707N 0660000E	N102	
GIMRI	434530N 0672931E	L139, N987	
GIREM	473219N 0743709E	N170, W333	TMA UAAH
GIRUL	430826N 0520542E	N73, Q161	
GISEK	443231N 0652559E		TMA UAOO
GISIR	465704N 0665732E	L147, M75	
GISTO	472457N 0524654E	L988	TMA UATG
GITIM	441752N 0662540E	M741, L139, T916	TMA UAOO
GITNA	524459N 0652518E	L994, M168	
GITUD	490032N 0780418E	N102, N993	
GOBDI	545052N 0692749E		TMA UACP
GOBOR	433811N 0681918E	M168, P178	TMA UAIT
GOBSO	505523N 0763521E	L994, M34, T649	TMA UASP
GOGDI	470320N 0525055E	L139	TMA UATG
GOGDO	442524N 0772618E	P984	TMA UAAA
GOLGI	453153N 0533543E	M158, N73	
GOLTU	500404N 0741911E	T649	TMA UAKK
GOMAL	470809N 0795150E	L135, M618, N161	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
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	
GURGI	472906N 0845308E	Z208, Z727	
GURPI	495618N 0711236E	M166, Z586, Z624	TMA UACC
GUTAN	514024N 0505912E	A368, M161	TMA UARR
IBDAS	473412N 0782432E	L143, Z243	
IBLAN	511832N 0710620E		TMA UACC
IBMOB	413436N 0680213E	Z753	
IBROZ	430710N 0682307E		TMA UAIT
IDILI	443608N 0780716E	L135	TMA UAAT
IDMIS	444251N 0655218E		TMA UAOO
IKANA	545924N 0681200E	A359, P179	TMA UACP
INDAG	440635N 0725812E	L147, T916	
INGEG	433001N 0684244E		TMA UAIT
INKOL	480633N 0652413E	M741, N37	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
INKUM	454952N 0620739E	L139, L162, L163, L165, M199, N167	
INLIG	441743N 0701919E	T916, L145	
INLUL	463730N 0803449E	Z370	
INPAD	432106N 0685105E		TMA UAIT
INREL	424136N 0713019E		TMA UADD
INRIK	500744N 0692030E	N990, M166	
INRIS	512800N 0521856E	A122, M158	
INRUG	420425N 0672311E	N987	TMA UAIK
INRUM	524302N 0740047E	Z584	
INTAL	484345N 0702839E	W351	
INTER	491433N 0595813E	L162, L988	
IPKOD	495415N 0644617E	N996, M741	
IPLIED	432348N 0493000E	G96, N37	TMA UATE RR-8
IPNIL	505034N 0643305E	N55, N167	
IPRAR	404431N 0683447E	M168	
IRGIT	485220N 0750436E	M993, Z160	
IRLEM	505353N 0672936E	N987	TMA UAUR
ITAKA	435224N 0493000E	L864, N154, R227	TMA UATE
IZIMA	432236N 0770503E	L135, L998, N170, P984, Z315, Z370	
KABIZ	475552N 0802659E	L135, M166, N143, N993, Z243, Z584	
KANET	521235N 0770542E	L51, M34, N985, N996, P179, P984, Z584	
KANZI	502504N 0742336E	W351	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
KARIM	431136N 0674737E	N147, Z380, Z579	TMA UAIT
KIZMI	425214N 0711654E	L145, N143, Z580, Z817	
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	TMA UACC
KODUM	475556N 0544537E	L988, N996, Z210	
KOKAV	542244N 0673738E	N60, N170, W355	TMA UACP
KOKON	500958N 0702609E	M75	TMA UACC
KOKZA	450622N 0782548E	L135, N126, N993, Z160	
KOLAM	423702N 0702540E	N143, Z580	TMA UAI
KOLIB	454047N 0512848E	N60, W324	
KOLUR	515901N 0704103E	N170, N990, W333	TMA UACC
KOMOS	424517N 0713537E		TMA UADD
KOMRE	455641N 0572649E	N37	
KONAT	452754N 0774805E	P984, Z160, Z584	TMA UAAT
KONEK	460631N 0750443E	M149	TMA UAAH
KORAG	435134N 0560000E	N102, N154	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
KUDUG	433216N 0675457E	L139	TMA UAIT
KUGIR	440625N 0705906E	L855, N147	
KUGUN	493139N 0685550E	N990	
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	TMA UAUR
KUSUM	514420N 0644639E	L145, T586	
LADOG	512959N 0713440E	M75, Z588	
LAGMO	514954N 0791500E	L988, M149, N985, P179, T649	RR-3
LAGUK	440528N 0795517E	N126	
LAKEL	431216N 0765439E	L135, P984	TMA UAAA
LALAS	485941N 0755014E	M34, M993	
LALKA	530017N 0683140E	T586	TMA UACK
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	TMA UAUU RR-6
LANUK	493317N 0623239E	N996	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
LARBA	424922N 0683725E	Z632	TMA UAI, TMA UAIT
LARoz	451010N 0521956E	M610	
LARPI	501721N 0560345E	M166	TMA UATT
LASDO	462443N 0755651E	Z160	TMA UAAH
LASMU	490432N 0624534E	L165, M993	
LASNA	492602N 0815315E	L135	TMA UASK
LASPA	534852N 0684219E	N170	TMA UACK
LATKO	522508N 0664427E	L994, T522, T586	
LATNU	445345N 0612553E	L985, M161, N167	
LAVLO	545546N 0692355E		TMA UACP
LEDGI	510855N 0513238E	M158, M161, M166	
LEDPO	444735N 0654840E		TMA UAOO
LEGLA	432826N 0771654E		TMA UAAA
LEKLU	450701N 0754903E	N143, N170	
LEMDU	470002N 0674228E	N987	TMA UAKD
LENTA	514854N 0602236E	L993, N60	
LEPRA	532811N 0725005E	P179	
LEPSI	465750N 0534950E	L139, N996	
LESNA	501302N 0725127E	Z588	TMA UAKK
LETIK	551200N 0683200E	A303, N987	TMA UACP
LIGMO	504539N 0710837E	M75, T523, Z746	TMA UACC
LIKRU	431730N 0765447E		TMA UAAA

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
LIMTO	440138N 0684518E	M610	
LIPSI	461808N 0784001E	M618, Z584	
LIRMO	530945N 0692524E		TMA UACK
LIRNA	501159N 0812203E	L994, W361	TMA UASS, TMA UASK
LITBA	501849N 0582332E	M166	TMA UATT
LITNO	492856N 0730737E		TMA UAKK
LODEZ	531715N 0623004E	G111, L985, L994	
LOGTO	483204N 0561202E	L992, M161, T586	
LOKOZ	470838N 0514805E	L51, L139, L988, M158, N60	
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	TMA UACK
LULKE	485932N 0522700E	Z102	
LUMEZ	470537N 0582647E	M161, P574	
LUMUD	495933N 0760202E	W352	
LUMUR	430639N 0512953E	Z581	TMA UATE
LUNOV	493800N 0801801E	W360, Z584	TMA UASS
LUREL	501613N 0790803E	N37, W352	TMA UASS

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
LURIT	432931N 0761943E		TMA UAAA
LURUM	494127N 0564322E	N73	TMA UATT
LUSAM	511128N 0515127E		TMA UARR
LUSIR	510229N 0511911E		TMA UARR
LUSUT	474510N 0680213E		TMA UAKD
LUTEK	482853N 0730459E	M993, Z624	
LUZMI	422426N 0681456E	M168	
MADEV	471857N 0770328E	N161, W336, Z243	
MAGOL	425338N 0685144E	L139, P178	TMA UAII, TMA UAII
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	TMA UAII
MIKSA	511608N 0784241E	M149, Z584	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
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	
MONEG	523627N 0671849E	N993, T586	
MULTA	510442N 0565042E	A360, M199, M875	TMA UATT
MUZEL	433756N 0692447E	N147	
NAGAZ	490336N 0504220E	L736	
NARUR	513200N 0641130E	M741, T586	
NASAB	435310N 0504810E		TMA UATE
NASIP	430347N 0715332E	N143	TMA UADD
NASMO	451929N 0782626E		TMA UAAT
NATUS	445208N 0643650E	M610	TMA UAOO
NEBSO	474925N 0675717E		TMA UAKD
NEGEZ	421758N 0694640E		TMA UAIL
NEGMI	511245N 0714553E		TMA UACC
NELOL	462733N 0530638E		CTR UATZ
NELTI	541942N 0641630E	L165, M168	TMA UAUU
NEMEG	491804N 0831242E	M618, Z727	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
NEMKU	485904N 0734736E	N170, W333	TMA UAKK
NEPIL	434133N 0522455E	N73, N193, Z102	TMA UATE
NEPLA	470920N 0740031E	L26	TMA UAAH
NESDO	454926N 0544739E	L992	
NESUN	460123N 0801738E	N993	TMA UAAL
NETAT	403653N 0682413E	M168	
NEZRA	425733N 0663541E	N147	TMA UAIK
NIGET	434124N 0771126E	P984, T916	TMA UAAA
NIKNA	462557N 0513838E	N60, W324	TMA UATG
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
NOGBU	435220N 0510352E	L736, N37, N60, N154, N193, N996, P574, Q161, Z581	
NOKNA	495154N 0811139E	M993	TMA UASK
NONKE	443400N 0781634E	Z160	TMA UAAT

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
NONDI	460552N 0673842E	N987	
NONRI	493111N 0785223E	N102, M993	
OBAMA	460212N 0690233E	L145, L147	
OBAPI	472530N 0773700E	Z243, P984	
OBARU	472917N 0751312E	M34	TMA UAAH
OBATA	462130N 0491148E	L988	
OBIBU	445219N 0654502E		TMA UAOO
OBUNA	505513N 0791803E	W361, Z584	TMA UASS
ODAMA	503331N 0753513E	T649	
ODATU	505427N 0710518E		TMA UACC
ODILA	494259N 0575122E	L728, M199, M875	TMA UATT
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	
OGBEZ	431605N 0681447E		TMA UAIT
OGIRU	433336N 0765119E		TMA UAAA
OGLAB	465259N 0745902E	L26, L998, M34, M149, N102, N170, Z160, Z243	
OGLUP	510857N 0715158E		TMA UACC

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
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	
OKMUR	424815N 0791158E	L138	
OKRAT	433034N 0765506E		TMA UAAA
OKSOL	495436N 0824319E		TMA UASK
OLAPU	475146N 0514531E	M158, W324	TMA UATG
OLGAS	520510N 0714507E	M75	TMA UACC
OLINA	451645N 0615140E	L165, M610	
OLKUM	530441N 0741300E	P179	
OMITO	501033N 0581909E	L26	TMA UATT
OSBOR	410054N 0683059E	Z753	
OSMOG	473140N 0673643E		TMA UAKD
OSNER	482119N 0785409E	M166, L143	
OSROL	504818N 0700112E	L988, N996, W358, Z624	TMA UACC
OSTAG	502223N 0803234E		TMA UASS
ORTEG	444145N 0653349E	L139, L855, M610, N990, P184, Z380	
OTMAS	460419N 0530034E	M158, N996	
PABRI	451455N 0704239E	L147, T524	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
PAVEL	425947N 0664642E	L163, M741, N147, Z753	TMA UAIK
PEKIR	433539N 0770931E	M610, P984	
PEMOL	464841N 0551720E	L139, L992	
PETEM	480656N 0553022E	N73, N996	
PETEP	544703N 0691309E	N60, N987, P179	
PETOR	535420N 0713136E	P179, T586	
PIGAL	433428N 0780356E	M610, T916	TMA UAAA
PIKAN	425300N 0493000E	A80, N996	TMA UATE
PILEL	425035N 0731336E	L728	
PIMIB	501013N 0573110E		TMA UATT
PIRIM	444808N 0511741E	N60, Q198, W324	TMA UATE
PIVAL	514549N 0775050E	L988, W361, Z584	TMA UASP
POBEK	432534N 0672754E	N987, Z380	TMA UAIK
POBUR	533800N 0721400E	M75, P179, Z553	
POKAT	432530N 0694508E	Z621	
POMNI	510638N 0493240E	L864	
RABEN	502602N 0795343E		TMA UASS
RALAN	440812N 0493000E	A924, Z581	TMA UATE
RAVNI	504030N 0615807E	L985, T586, Z582	
RAVOB	404718N 0683330E	L143	
RAZBI	425954N 0673533E	Z621	TMA UAIK
REBDA	414708N 0690515E	P178, Z632	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
REGMU	435005N 0760012E	L143, T916, Z589	TMA UAAA
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	TMA UAIT
REMOL	442704N 0681238E	L855, M168	
REMTI	470757N 0670843E	M75	TMA UAKD
RENPA	524400N 0701548E	Z588	TMA UACK
RENPI	463437N 0522656E	M158, Z102	TMA UATG
REPLA	452358N 0533011E	N73	
RESBA	462255N 0621359E	L165	
RESDO	475618N 0595446E	M199	
REZEK	421933N 0691021E		TMA UAI
RIBMO	442238N 0520908E	P574	TMA UATE
RIGDO	495937N 0581049E	L147	TMA UATT
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	TMA UACK

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
RIMPU	500158N 0823031E	L135, L994, M993, Z727	
RIMUN	502651N 0570524E		TMA UATT
RINET	443026N 0663402E	M610	TMA UAOO
RINIT	435305N 0535549E	L992, N154	
RINUR	482255N 0681040E	N990	TMA UAKD
RISAD	441324N 0761312E	N170	TMA UAAA
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	
RITUF	432533N 0684654E		TMA UAIT
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
ROGUN	531944N 0682341E	W361, Z584	TMA UACK
ROHIL	511738N 0754034E	L51, W351	TMA UASP
ROKOD	494408N 0801719E	M993, Z584	
RONED	494226N 0734127E		TMA UAKK

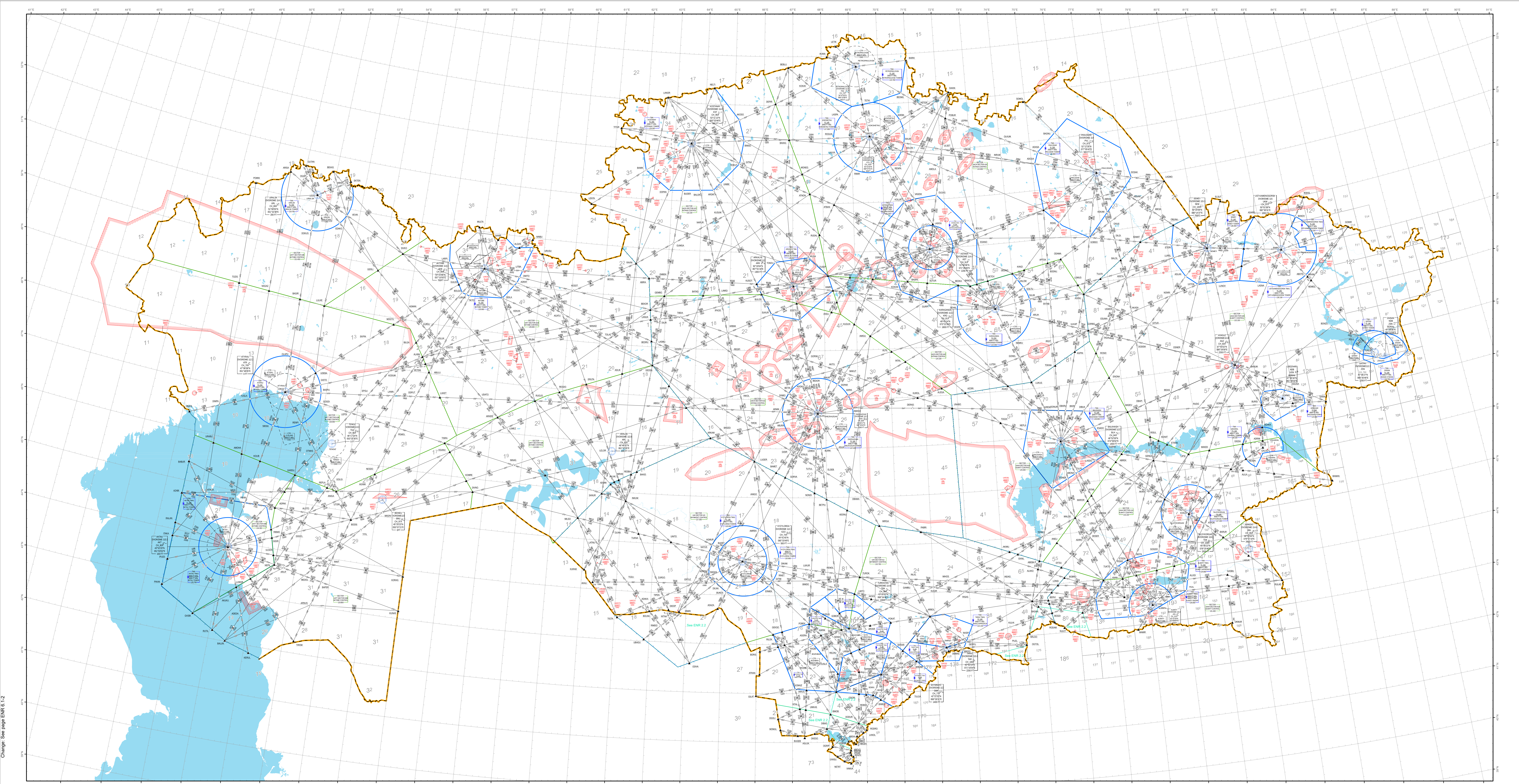
Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
RONRO	500944N 0821555E		TMA UASK
ROPEL	544155N 0685416E		TMA UACP
ROPIM	505038N 0711120E		TMA UACC
ROSID	483440N 0762005E	M149	
ROSIM	423415N 0672453E	L163, N987	
ROTEP	423106N 0691449E		TMA UAI
RUDAL	512154N 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	TMA UAI
RUTIL	421053N 0510433E	P574, Z102	
SANIR	505230N 0572942E	G552, L992	TMA UATT
SANUR	455717N 0612446E	L139, L985	
SARIN	465156N 0825317E	M166, N161	RR-1
SEHAL	494940N 0721215E	M166	TMA UAKK
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	
SOMOL	534918N 0745629E	P984	
SOPRA	434455N 0775106E		TMA UAAA
SUBAN	463355N 0762353E	L26	TMA UAAH

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
SUBOL	474716N 0645433E	L51, L147	
SUGUM	432507N 0771027E		TMA UAAA
SUKUR	494431N 0661957E	L145, P574	TMA UAUR
SULET	430602N 0743503E	L143	
SULIB	494914N 0742808E	N37, W352	TMA UAKK
SURAR	481318N 0631317E	N167	
SUTUR	501837N 0711714E	Z586	TMA UACC
TAGAL	485638N 0763825E	M149, M166	
TENLU	495139N 0733246E		TMA UAKK
TENRO	445953N 0741408E	M34, N102, N147	
TETKI	540020N 0692425E	N987, W333	TMA UACK, TMA UACP
TIBDA	493800N 0632900E	L26, N996, Z164	
TIGTA	432728N 0620446E	L855, M875	
TIKTO	494006N 0565014E	L992	TMA UATT
TIMKA	440832N 0681511E	M168, M610, P178	
TIMZO	494630N 0593634E	L162, M993	
TIPEN	435532N 0632045E	L162, L855	
TIPSA	433809N 0753149E	L143, L855, M610, Z817	TMA UAAA
TIRBA	433456N 0773031E	L135, M610, Z315, Z370	TMA UAAA
TIROK	472456N 0655037E	L147, N161	
TIROM	421434N 0531720E	L992, Q161	RR-4
TISRA	463851N 0564100E	L139	

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
TITIL	443944N 0543810E	N55, N161	
TITUR	532406N 0610924E	G111, L994, N985	TMA UAUU RR-3
TOGDI	472143N 0731457E	L26, Z583	
TOKNA	482525N 0750316E	Z160	
TOLAZ	490416N 0611752E	L147, N55	
TOLKI	473415N 0811640E	M166, Z208	
TOMGO	434146N 0734454E	L147, L855, M34, M610, N143, Z370	RR-2
TOMZU	504824N 0662645E	W332	TMA UAUR
TONLA	421334N 0681508E	N102	TMA UAIK, TMA UAIJ
TOZIS	490511N 0494538E	L864	
TOZLI	441054N 0621817E	M161, T916	
TUGLA	465142N 0505006E	L736, L988	TMA UATG
TUKNA	451058N 0623308E	L162, M610	
TUKTO	441136N 0760830E	Z583	TMA UAAA
TULFA	500354N 0764539E	W352	
TULGA	415347N 0701204E	L139	TMA UAIJ
TULPI	461318N 0752358E	L998, W333	TMA UAAH
TUMIN	530655N 0693301E		TMA UACK
TUNZA	473654N 0843414E	Z208, Z727	TMA UASI
TURIK	423108N 0700422E	N143	TMA UAIJ
TUOK	442214N 0685447E	L728, L855	
TUSEP	503136N 0680751E	L988, L993, N126, N996, W358, Z583, Z746	TMA UAUR

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	TMA UATG
UDEKA	455252N 0770006E	N143, Z160	
UGLUK	484125N 0555642E	M161, N73	
UGMON	492619N 0770343E	M149, N993	
ULKAP	490729N 0755332E	M34, M166	
ULRIP	474743N 0634635E	L51, N37	
ULSET	530027N 0720230E	M75, W361, Z584	
ULSON	435244N 0522039E	N154	TMA UATE
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	TMA UAUU
UNITO	450238N 0632952E	L163, M610	
UNKAB	525439N 0724332E	Z584	
UNLOM	501425N 0740834E	L51, W351	TMA UAKK

Name-code designator	Geographical Coordinates	ATS route or other route	Terminal area
1	2	3	4
UNREN	423755N 0712502E		TMA UADD
URABU	455108N 0500407E	L864	
URUSU	504142N 0585724E	L162	
USUGA	433600N 0761934E	M610, T524, Z583, Z589	TMA UAAA
UTEMU	493757N 0671237E	N987, M168	TMA UAUR
UTORI	451248N 0535555E	P574	
UVASU	404236N 0681306E	L143	
UVTOK	493924N 0794524E	L143, M993	TMA UASS
UZLOR	464915N 0613205E	L162, L985	
VAGEM	520159N 0710114E	Z588	TMA UACC
VAKES	433230N 0510000E		TMA UATE
VAMRI	501330N 0681645E	M166, P574	TMA UAUR
VAMUK	403400N 0683430E	L170	
VETUB	504107N 0701250E	P574, Z624, Z746	TMA UACC
VETUS	532638N 0695329E		TMA UACK
VEVIK	505201N 0523529E	M56, M166, Z102	TMA UARR
ZAZBU	532352N 0630332E		RR-3, RR-6
ZODLE	424402N 0732817E		See route V-15 in the list of airways of the Kyrgyz Republic - KAN.KG/RU/AIS
ZURGO	441233N 0631012E	L162, T916	
ZUSLA	423838N 0675917E	Z579	



Change: See page ENR 6.1-2



Reporting point

On Request

Compulsory

Aerodrome

Radionavigation aids

DME

NDB

VOR

Compass rose

FIR - Flight information region

State Boundary

Airspace

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 - 18⁶

WGS84
Lambert Conformal Conic Projection
The chart is True North orientated

AIRAC AMDT 007/2026

CHANGES:

ROUTE	SEGMENT	MOCA
L147	GEDSA : TOLAZ	1900 FT
L147	TOLAZ : MANAD	1800 FT
L162	ERUTA : INTER	2000 FT
L162	INTER : AGATU	2100 FT
L162	AGATU : TIMZO	2200 FT
L162	TIMZO : URUSU	2400 FT
L165	AKALI : EKNIZ	1300 FT
L165	EKNIZ : OLINA	1300 FT
L165	GEDSA : LASMU	1700 FT
L165	LASMU : DILIR	1500 FT
L165	DILIR : GEMBO	1600 FT
L985	ADLIK : AGLAL	1700 FT
L985	AGLAL : RAVNI	1900 FT
L988	ERKIS : INTER	3500 FT
L988	INTER : BEKOR	1900 FT
M149	ESUMA : UGMON	5000 FT
M149	UGMON : ADETA	4700 FT

ROUTE	SEGMENT	MOCA
M161	ABDUN : LUMEZ	2200 FT
M161	LUMEZ : ARKER	2000 FT
M168	GORIM : UTEMU	3800 FT
M168	UTEMU : EDETO	2800 FT
M875	FAZUL : EKNIZ	1300 FT
M875	EKNIZ : MILSO	1300 FT
M993	GOSPA : LASMU	1600 FT
M993	LASMU : BEDRU	1500 FT
M993	BEDRU : AGLAL	1700 FT
M993	AGLAL : TIMZO	2200 FT
M993	TIMZO : ADRAT	2400 FT
N55	ARKER : TOLAZ	2000 FT
N55	TOLAZ : BEKOR	1800 FT
N993	GITUD : UGMON	6300 FT
N993	UGMON : AGINU	5300 FT
P574	OGANU : LUMEZ	2400 FT
P574	LUMEZ : ARSAN	1900 FT

*more information in AIP ENR 3 ATS ROUTES.

Add new aerodrome(1):
UAUR ARKALYK.

Add new designated points(8):
AGLAL, EKNIZ, INTER, LASMU, LUMEZ,
TIMZO, TOLAZ, UGMON.

Add new airspace(2):
ARKALYK TMA, ARKALYK CTR.

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UATE - AKTAU

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UATE AD 2.19	Radio Navigation And Landing Aids	AD-2-UATE - 7
UATE AD 2.20	Local Aerodrome Regulations	AD-2-UATE - 7
UATE AD 2.21	Noise Abatement Procedures	AD-2-UATE - 10
UATE AD 2.22	Flight Procedures	AD-2-UATE - 10
UATE AD 2.23	Additional Information	AD-2-UATE - 13
UATE AD 2.24	Charts Related To An Aerodrome	AD-2-UATE - 14

UATE AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UATE - 14
UATT AD 2		AD-2-UATT - 1
UATT AD 2.1	Aerodrome Location Indicator And Name	AD-2-UATT - 1

UATT - AKTOBE

UATT AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UATT - 1
UATT AD 2.3	Operational Hours	AD-2-UATT - 1
UATT AD 2.4	Handling Services And Facilities	AD-2-UATT - 2
UATT AD 2.5	Passenger Facilities	AD-2-UATT - 2
UATT AD 2.6	Rescue And Fire Fighting Services	AD-2-UATT - 2
UATT AD 2.7	Seasonal Availability - Clearing	AD-2-UATT - 3
UATT AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UATT - 3
UATT AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UATT - 3
UATT AD 2.10	Aerodrome Obstacles	AD-2-UATT - 4
UATT AD 2.11	Meteorological Information Provided	AD-2-UATT - 4
UATT AD 2.12	Runway Physical Characteristics	AD-2-UATT - 4
UATT AD 2.13	Declared Distances	AD-2-UATT - 5
UATT AD 2.14	Approach And Runway Lighting	AD-2-UATT - 5
UATT AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UATT - 5
UATT AD 2.16	Helicopter Landing Area	AD-2-UATT - 5
UATT AD 2.17	ATS Airspace	AD-2-UATT - 5
UATT AD 2.18	ATS Communication Facilities	AD-2-UATT - 6
UATT AD 2.19	Radio Navigation And Landing Aids	AD-2-UATT - 6
UATT AD 2.20	Local Aerodrome Regulations	AD-2-UATT - 6
UATT AD 2.21	Noise Abatement Procedures	AD-2-UATT - 8
UATT AD 2.22	Flight Procedures	AD-2-UATT - 8
UATT AD 2.23	Additional Information	AD-2-UATT - 10
UATT AD 2.24	Charts Related To An Aerodrome	AD-2-UATT - 12
UATT AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UATT - 12
UAAA AD 2		AD-2-UAAA - 1
UAAA AD 2.1	Aerodrome Location Indicator And Name	AD-2-UAAA - 1

UAAA - ALMATY

UAAA AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UAAA - 1
UAAA AD 2.3	Operational Hours	AD-2-UAAA - 1
UAAA AD 2.4	Handling Services And Facilities	AD-2-UAAA - 2
UAAA AD 2.5	Passenger Facilities	AD-2-UAAA - 2
UAAA AD 2.6	Rescue And Fire Fighting Services	AD-2-UAAA - 2
UAAA AD 2.7	Seasonal Availability - Clearing	AD-2-UAAA - 2
UAAA AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UAAA - 3
UAAA AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UAAA - 4
UAAA AD 2.10	Aerodrome Obstacles	AD-2-UAAA - 4
UAAA AD 2.11	Meteorological Information Provided	AD-2-UAAA - 4
UAAA AD 2.12	Runway Physical Characteristics	AD-2-UAAA - 5

UAAA AD 2.13	Declared Distances	AD-2-UAAA - 6
UAAA AD 2.14	Approach And Runway Lighting	AD-2-UAAA - 7
UAAA AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UAAA - 8
UAAA AD 2.16	Helicopter Landing Area	AD-2-UAAA - 8
UAAA AD 2.17	ATS Airspace	AD-2-UAAA - 9
UAAA AD 2.18	ATS Communication Facilities	AD-2-UAAA - 9
UAAA AD 2.19	Radio Navigation And Landing Aids	AD-2-UAAA - 10
UAAA AD 2.20	Local Aerodrome Regulations	AD-2-UAAA - 11
UAAA AD 2.21	Noise Abatement Procedures	AD-2-UAAA - 17
UAAA AD 2.22	Flight Procedures	AD-2-UAAA - 18
UAAA AD 2.23	Additional Information	AD-2-UAAA - 23
UAAA AD 2.24	Charts Related To An Aerodrome	AD-2-UAAA - 25
UAAA AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UAAA - 26
UACC AD 2		AD-2-UACC - 1
UACC AD 2.1	Aerodrome Location Indicator And Name	AD-2-UACC - 1

UACC - ASTANA

UACC AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UACC - 1
UACC AD 2.3	Operational Hours	AD-2-UACC - 1
UACC AD 2.4	Handling Services And Facilities	AD-2-UACC - 2
UACC AD 2.5	Passenger Facilities	AD-2-UACC - 2
UACC AD 2.6	Rescue And Fire Fighting Services	AD-2-UACC - 2
UACC AD 2.7	Seasonal Availability - Clearing	AD-2-UACC - 3
UACC AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UACC - 4
UACC AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UACC - 5
UACC AD 2.10	Aerodrome Obstacles	AD-2-UACC - 5
UACC AD 2.11	Meteorological Information Provided	AD-2-UACC - 6
UACC AD 2.12	Runway Physical Characteristics	AD-2-UACC - 6
UACC AD 2.13	Declared Distances	AD-2-UACC - 7
UACC AD 2.14	Approach And Runway Lighting	AD-2-UACC - 7
UACC AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UACC - 7
UACC AD 2.16	Helicopter Landing Area	AD-2-UACC - 8
UACC AD 2.17	ATS Airspace	AD-2-UACC - 8
UACC AD 2.18	ATS Communication Facilities	AD-2-UACC - 8
UACC AD 2.19	Radio Navigation And Landing Aids	AD-2-UACC - 9
UACC AD 2.20	Local Aerodrome Regulations	AD-2-UACC - 9
UACC AD 2.21	Noise Abatement Procedures	AD-2-UACC - 10
UACC AD 2.22	Flight Procedures	AD-2-UACC - 10
UACC AD 2.23	Additional Information	AD-2-UACC - 13
UACC AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UACC - 15
UATG AD 2		AD-2-UATG - 1
UATG AD 2.1	Aerodrome Location Indicator And Name	AD-2-UATG - 1

UATG - ATYRAU

UATG AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UATG - 1
UATG AD 2.3	Operational Hours	AD-2-UATG - 1
UATG AD 2.4	Handling Services And Facilities	AD-2-UATG - 2
UATG AD 2.5	Passenger Facilities	AD-2-UATG - 2
UATG AD 2.6	Rescue And Fire Fighting Services	AD-2-UATG - 2
UATG AD 2.7	Seasonal Availability - Clearing	AD-2-UATG - 3
UATG AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UATG - 3
UATG AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UATG - 4
UATG AD 2.10	Aerodrome Obstacles	AD-2-UATG - 4
UATG AD 2.11	Meteorological Information Provided	AD-2-UATG - 4
UATG AD 2.12	Runway Physical Characteristics	AD-2-UATG - 4
UATG AD 2.13	Declared Distances	AD-2-UATG - 5
UATG AD 2.14	Approach And Runway Lighting	AD-2-UATG - 6
UATG AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UATG - 6
UATG AD 2.16	Helicopter Landing Area	AD-2-UATG - 6
UATG AD 2.17	ATS Airspace	AD-2-UATG - 7
UATG AD 2.18	ATS Communication Facilities	AD-2-UATG - 7
UATG AD 2.19	Radio Navigation And Landing Aids	AD-2-UATG - 7
UATG AD 2.20	Local Aerodrome Regulations	AD-2-UATG - 8
UATG AD 2.21	Noise Abatement Procedures	AD-2-UATG - 11
UATG AD 2.22	Flight Procedures	AD-2-UATG - 11
UATG AD 2.23	Additional Information	AD-2-UATG - 15
UATG AD 2.24	Charts Related To An Aerodrome	AD-2-UATG - 17
UATG AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UATG - 17
UAAH AD 2		AD-2-UAAH - 1
UAAH AD 2.1	Aerodrome Location Indicator And Name	AD-2-UAAH - 1

UAAH - BALKHASH

UAAH AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UAAH - 1
UAAH AD 2.3	Operational Hours	AD-2-UAAH - 1
UAAH AD 2.4	Handling Services And Facilities	AD-2-UAAH - 2
UAAH AD 2.5	Passenger Facilities	AD-2-UAAH - 2
UAAH AD 2.6	Rescue And Fire Fighting Services	AD-2-UAAH - 2
UAAH AD 2.7	Seasonal Availability - Clearing	AD-2-UAAH - 2
UAAH AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UAAH - 3
UAAH AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UAAH - 3
UAAH AD 2.10	Aerodrome Obstacles	AD-2-UAAH - 3
UAAH AD 2.11	Meteorological Information Provided	AD-2-UAAH - 3
UAAH AD 2.12	Runway Physical Characteristics	AD-2-UAAH - 4
UAAH AD 2.13	Declared Distances	AD-2-UAAH - 4
UAAH AD 2.14	Approach And Runway Lighting	AD-2-UAAH - 5
UAAH AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UAAH - 5
UAAH AD 2.16	Helicopter Landing Area	AD-2-UAAH - 5

UAAH AD 2.17	ATS Airspace	AD-2-UAAH - 5
UAAH AD 2.18	ATS Communication Facilities	AD-2-UAAH - 6
UAAH AD 2.19	Radio Navigation And Landing Aids	AD-2-UAAH - 6
UAAH AD 2.20	Local Aerodrome Regulations	AD-2-UAAH - 6
UAAH AD 2.21	Noise Abatement Procedures	AD-2-UAAH - 6
UAAH AD 2.22	Flight Procedures	AD-2-UAAH - 7
UAAH AD 2.23	Additional Information	AD-2-UAAH - 8
UAAH AD 2.24	Charts Related To An Aerodromem	AD-2-UAAH - 9
UAAH AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UAAH - 9
UAIK AD 2		AD-2-UAIK - 1
UAIK AD 2.1	Aerodrome Location Indicator And Name	AD-2-UAIK - 1

UAIK - BOZHBAN

UAIK AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UAIK - 1
UAIK AD 2.3	Operational Hours	AD-2-UAIK - 1
UAIK AD 2.4	Handling Services And Facilities	AD-2-UAIK - 2
UAIK AD 2.5	Passenger Facilities	AD-2-UAIK - 2
UAIK AD 2.6	Rescue And Fire Fighting Services	AD-2-UAIK - 2
UAIK AD 2.7	Seasonal Availability - Clearing	AD-2-UAIK - 2
UAIK AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UAIK - 2
UAIK AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UAIK - 3
UAIK AD 2.10	Aerodrome Obstacles	AD-2-UAIK - 3
UAIK AD 2.11	Meteorological Information Provided	AD-2-UAIK - 3
UAIK AD 2.12	Runway Physical Characteristics	AD-2-UAIK - 4
UAIK AD 2.13	Declared Distances	AD-2-UAIK - 4
UAIK AD 2.14	Approach And Runway Lighting	AD-2-UAIK - 5
UAIK AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UAIK - 5
UAIK AD 2.16	Helicopter Landing Area	AD-2-UAIK - 5
UAIK AD 2.17	ATS Airspace	AD-2-UAIK - 5
UAIK AD 2.18	ATS Communication Facilities	AD-2-UAIK - 6
UAIK AD 2.19	Radio Navigation And Landing Aids	AD-2-UAIK - 6
UAIK AD 2.20	Local Traffic Regulations	AD-2-UAIK - 6
UAIK AD 2.21	Noise Abatement Procedures	AD-2-UAIK - 7
UAIK AD 2.22	Flight Procedures	AD-2-UAIK - 7
UAIK AD 2.23	Additional Information	AD-2-UAIK - 8
UAIK AD 2.24	Charts Related To An Aerodrome	AD-2-UAIK - 8
UAIK AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UAIK - 8
UAKK AD 2		AD-2-UAKK - 1
UAKK AD 2.1	Aerodrome Location Indicator And Name	AD-2-UAKK - 1

UAKK - KARAGANDA

UAKK AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UAKK - 1
UAKK AD 2.3	Operational Hours	AD-2-UAKK - 1
UAKK AD 2.4	Handling Services And Facilities	AD-2-UAKK - 2

UAKK AD 2.5	Passenger Facilities	AD-2-UAKK - 2
UAKK AD 2.6	Rescue And Fire Fighting Services	AD-2-UAKK - 2
UAKK AD 2.7	Seasonal Availability - Clearing	AD-2-UAKK - 2
UAKK AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UAKK - 3
UAKK AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UAKK - 3
UAKK AD 2.10	Aerodrome Obstacles	AD-2-UAKK - 4
UAKK AD 2.11	Meteorological Information Provided	AD-2-UAKK - 4
UAKK AD 2.12	Runway Physical Characteristics	AD-2-UAKK - 4
UAKK AD 2.13	Declared Distances	AD-2-UAKK - 5
UAKK AD 2.14	Approach And Runway Lighting	AD-2-UAKK - 5
UAKK AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UAKK - 6
UAKK AD 2.16	Helicopter Landing Area	AD-2-UAKK - 6
UAKK AD 2.17	ATS Airspace	AD-2-UAKK - 6
UAKK AD 2.18	ATS Communication Facilities	AD-2-UAKK - 6
UAKK AD 2.19	Radio Navigation And Landing Aids	AD-2-UAKK - 7
UAKK AD 2.20	Local Aerodrome Regulations	AD-2-UAKK - 7
UAKK AD 2.21	Noise Abatement Procedures	AD-2-UAKK - 11
UAKK AD 2.22	Flight procedures	AD-2-UAKK - 11
UAKK AD 2.23	Additional Information	AD-2-UAKK - 14
UAKK AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UAKK - 16
UACK AD 2		AD-2-UACK - 1
UACK AD 2.1	Aerodrome Location Indicator And Name	AD-2-UACK - 1

UACK - KOKSHETAU

UACK AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UACK - 1
UACK AD 2.3	Operational Hours	AD-2-UACK - 1
UACK AD 2.4	Handling Services And Facilities	AD-2-UACK - 2
UACK AD 2.5	Passenger Facilities	AD-2-UACK - 2
UACK AD 2.6	Rescue And Fire Fighting Services	AD-2-UACK - 2
UACK AD 2.7	Seasonal Availability - Clearing	AD-2-UACK - 3
UACK AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UACK - 3
UACK AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UACK - 3
UACK AD 2.10	Aerodrome Obstacles	AD-2-UACK - 3
UACK AD 2.11	Meteorological Information Provided	AD-2-UACK - 3
UACK AD 2.12	Runway Physical Characteristics	AD-2-UACK - 4
UACK AD 2.13	Declared Distances	AD-2-UACK - 4
UACK AD 2.14	Approach And Runway Lighting	AD-2-UACK - 5
UACK AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UACK - 5
UACK AD 2.16	Helicopter Landing Area	AD-2-UACK - 5
UACK AD 2.17	ATS Airspace	AD-2-UACK - 5
UACK AD 2.18	ATS Communication Facilities	AD-2-UACK - 6
UACK AD 2.19	Radio Navigation And Landing Aids	AD-2-UACK - 6
UACK AD 2.20	Local Aerodrome Regulations	AD-2-UACK - 6

UACK AD 2.21	Noise Abatement Procedures	AD-2-UACK - 7
UACK AD 2.22	Flight Procedures	AD-2-UACK - 7
UACK AD 2.23	Additional Information	AD-2-UACK - 9
UACK AD 2.24	Charts Related To An Aerodrome	AD-2-UACK - 10
UACK AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UACK - 10
UAUU AD 2		AD-2-UAUU - 1
UAUU AD 2.1	Aerodrome Location Indicator And Name	AD-2-UAUU - 1

UAUU - KOSTANAY

UAUU AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UAUU - 1
UAUU AD 2.3	Operational Hours	AD-2-UAUU - 1
UAUU AD 2.4	Handling Services And Facilities	AD-2-UAUU - 2
UAUU AD 2.5	Passenger Facilities	AD-2-UAUU - 2
UAUU AD 2.6	Rescue And Fire Fighting Services	AD-2-UAUU - 2
UAUU AD 2.7	Seasonal Availability - Clearing	AD-2-UAUU - 2
UAUU AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UAUU - 3
UAUU AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UAUU - 3
UAUU AD 2.10	Aerodrome Obstacles	AD-2-UAUU - 3
UAUU AD 2.11	Meteorological Information Provided	AD-2-UAUU - 4
UAUU AD 2.12	Runway Physical Characteristics	AD-2-UAUU - 4
UAUU AD 2.13	Declared Distances	AD-2-UAUU - 6
UAUU AD 2.14	Approach And Runway Lighting	AD-2-UAUU - 6
UAUU AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UAUU - 6
UAUU AD 2.16	Helicopter Landing Area	AD-2-UAUU - 6
UAUU AD 2.17	ATS Airspace	AD-2-UAUU - 6
UAUU AD 2.18	ATS Communication Facilities	AD-2-UAUU - 7
UAUU AD 2.19	Radio Navigation And Landing Aids	AD-2-UAUU - 7
UAUU AD 2.20	Local Aerodrome Regulations	AD-2-UAUU - 8
UAUU AD 2.21	Noise Abatement Procedures	AD-2-UAUU - 11
UAUU AD 2.22	Flight Procedures	AD-2-UAUU - 11
UAUU AD 2.23	Additional Information	AD-2-UAUU - 13
UAUU AD 2.24	Charts Related To An Aerodrome	AD-2-UAUU - 14
UAUU AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UAUU - 14
UAOO AD 2		AD-2-UAOO - 1
UAOO AD 2.1	Aerodrome Location Indicator And Name	AD-2-UAOO - 1

UAOO - KYZYLORDA

UAOO AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UAOO - 1
UAOO AD 2.3	Operational Hours	AD-2-UAOO - 1
UAOO AD 2.4	Handling Services And Facilities	AD-2-UAOO - 2
UAOO AD 2.5	Passenger Facilities	AD-2-UAOO - 2
UAOO AD 2.6	Rescue And Fire Fighting Services	AD-2-UAOO - 2
UAOO AD 2.7	Seasonal Availability - Clearing	AD-2-UAOO - 3
UAOO AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UAOO - 3

UAOO AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UAOO - 3
UAOO AD 2.10	Aerodrome Obstacles	AD-2-UAOO - 3
UAOO AD 2.11	Meteorological Information Provided	AD-2-UAOO - 4
UAOO AD 2.12	Runway Physical Characteristics	AD-2-UAOO - 4
UAOO AD 2.13	Declared Distances	AD-2-UAOO - 5
UAOO AD 2.14	Approach And Runway Lighting	AD-2-UAOO - 5
UAOO AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UAOO - 5
UAOO AD 2.16	Helicopter Landing Area	AD-2-UAOO - 6
UAOO AD 2.17	ATS Airspace	AD-2-UAOO - 6
UAOO AD 2.18	ATS Communication Facilities	AD-2-UAOO - 6
UAOO AD 2.19	Radio Navigation And Landing Aids	AD-2-UAOO - 7
UAOO AD 2.20	Local Aerodrome Regulations	AD-2-UAOO - 7
UAOO AD 2.21	Noise Abatement Procedures	AD-2-UAOO - 8
UAOO AD 2.22	Flight procedures	AD-2-UAOO - 8
UAOO AD 2.23	Additional Information	AD-2-UAOO - 9
UAOO AD 2.24	Charts Related To An Aerodrome	AD-2-UAOO - 10
UAOO AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UAOO - 10
UASP AD 2		AD-2-UASP - 1
UASP AD 2.1	Aerodrome Location Indicator And Name	AD-2-UASP - 1

UASP - PAVLODAR

UASP AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UASP - 1
UASP AD 2.3	Operational Hours	AD-2-UASP - 1
UASP AD 2.4	Handling Services And Facilities	AD-2-UASP - 2
UASP AD 2.5	Passenger Facilities	AD-2-UASP - 2
UASP AD 2.6	Rescue And Fire Fighting Services	AD-2-UASP - 2
UASP AD 2.7	Seasonal Availability - Clearing	AD-2-UASP - 2
UASP AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UASP - 3
UASP AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UASP - 3
UASP AD 2.10	Aerodrome Obstacles	AD-2-UASP - 3
UASP AD 2.11	Meteorological Information Provided	AD-2-UASP - 3
UASP AD 2.12	Runway Physical Characteristics	AD-2-UASP - 4
UASP AD 2.13	Declared Distances	AD-2-UASP - 5
UASP AD 2.14	Approach And Runway Lighting	AD-2-UASP - 5
UASP AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UASP - 5
UASP AD 2.16	Helicopter Landing Area	AD-2-UASP - 5
UASP AD 2.17	ATS Airspace	AD-2-UASP - 6
UASP AD 2.18	ATS Communication Facilities	AD-2-UASP - 6
UASP AD 2.19	Radio Navigation And Landing Aids	AD-2-UASP - 6
UASP AD 2.20	Local Aerodrome Regulations	AD-2-UASP - 7
UASP AD 2.21	Noise Abatement Procedures	AD-2-UASP - 8
UASP AD 2.22	Flight Procedures	AD-2-UASP - 8
UASP AD 2.23	Additional Information	AD-2-UASP - 10

UASP AD 2.24	Charts Related To An Aerodrome	AD-2-UASP - 11
UASP AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UASP - 11
UACP AD 2		AD-2-UACP - 1
UACP AD 2.1	Aerodrome Location Indicator And Name	AD-2-UACP - 1

UACP - PETROPAVLOVSK

UACP AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UACP - 1
UACP AD 2.3	Operational Hours	AD-2-UACP - 1
UACP AD 2.4	Handling Services And Facilities	AD-2-UACP - 2
UACP AD 2.5	Passenger Facilities	AD-2-UACP - 2
UACP AD 2.6	Rescue And Fire Fighting Services	AD-2-UACP - 2
UACP AD 2.7	Seasonal Availability - Clearing	AD-2-UACP - 3
UACP AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UACP - 3
UACP AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UACP - 3
UACP AD 2.10	Aerodrome Obstacles	AD-2-UACP - 3
UACP AD 2.11	Meteorological Information Provided	AD-2-UACP - 3
UACP AD 2.12	Runway Physical Characteristics	AD-2-UACP - 4
UACP AD 2.13	Declared Distances	AD-2-UACP - 5
UACP AD 2.14	Approach And Runway Lighting	AD-2-UACP - 5
UACP AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UACP - 5
UACP AD 2.16	Helicopter Landing Area	AD-2-UACP - 6
UACP AD 2.17	ATS Airspace	AD-2-UACP - 6
UACP AD 2.18	ATS Communication Facilities	AD-2-UACP - 6
UACP AD 2.19	Radio Navigation And Landing Aids	AD-2-UACP - 7
UACP AD 2.20	Local Aerodrome Regulations	AD-2-UACP - 7
UACP AD 2.21	Noise Abatement Procedures	AD-2-UACP - 10
UACP AD 2.22	Flight Procedures	AD-2-UACP - 10
UACP AD 2.23	Additional Information	AD-2-UACP - 12
UACP AD 2.24	Charts Related To An Aerodrome	AD-2-UACP - 12
UACP AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UACP - 13
UASS AD 2		AD-2-UASS - 1
UASS AD 2.1	Aerodrome Location Indicator And Name	AD-2-UASS - 1

UASS - SEMEY

UASS AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UASS - 1
UASS AD 2.3	Operational Hours	AD-2-UASS - 1
UASS AD 2.4	Handling Services And Facilities	AD-2-UASS - 2
UASS AD 2.5	Passenger Facilities	AD-2-UASS - 2
UASS AD 2.6	Rescue And Fire Fighting Services	AD-2-UASS - 2
UASS AD 2.7	Seasonal Availability - Clearing	AD-2-UASS - 2
UASS AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UASS - 3
UASS AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UASS - 3
UASS AD 2.10	Aerodrome Obstacles	AD-2-UASS - 3
UASS AD 2.11	Meteorological Information Provided	AD-2-UASS - 3

UASS AD 2.12	Runway Physical Characteristics	AD-2-UASS - 4
UASS AD 2.13	Declared Distances	AD-2-UASS - 5
UASS AD 2.14	Approach And Runway Lighting	AD-2-UASS - 5
UASS AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UASS - 6
UASS AD 2.16	Helicopter Landing Area	AD-2-UASS - 6
UASS AD 2.17	ATS Airspace	AD-2-UASS - 6
UASS AD 2.18	ATS Communication Facilities	AD-2-UASS - 6
UASS AD 2.19	Radio Navigation And Landing Aids	AD-2-UASS - 7
UASS AD 2.20	Local Aerodrome Regulations	AD-2-UASS - 7
UASS AD 2.21	Noise Abatement Procedures	AD-2-UASS - 7
UASS AD 2.22	Flight procedures	AD-2-UASS - 7
UASS AD 2.23	Additional Information	AD-2-UASS - 10
UASS AD 2.24	Charts Related To An Aerodrome	AD-2-UASS - 12
UASS AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UASS - 12
UASI AD 2		AD-2-UASI - 1
UASI AD 2.1	Aerodrome Location Indicator And Name	AD-2-UASI - 1

UASI - SATPAY

UASI AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UASI - 1
UASI AD 2.3	Operational Hours	AD-2-UASI - 1
UASI AD 2.4	Handling Services And Facilities	AD-2-UASI - 2
UASI AD 2.5	Passenger Facilities	AD-2-UASI - 2
UASI AD 2.6	Rescue And Fire Fighting Services	AD-2-UASI - 2
UASI AD 2.7	Seasonal Availability - Clearing	AD-2-UASI - 3
UASI AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UASI - 3
UASI AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UASI - 3
UASI AD 2.10	Aerodrome Obstacles	AD-2-UASI - 3
UASI AD 2.11	Meteorological Information Provided	AD-2-UASI - 3
UASI AD 2.12	Runway Physical Characteristics	AD-2-UASI - 4
UASI AD 2.13	Declared Distances	AD-2-UASI - 4
UASI AD 2.14	Approach And Runway Lighting	AD-2-UASI - 5
UASI AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UASI - 5
UASI AD 2.16	Helicopter Landing Area	AD-2-UASI - 5
UASI AD 2.17	ATS Airspace	AD-2-UASI - 6
UASI AD 2.18	ATS Communication Facilities	AD-2-UASI - 6
UASI AD 2.19	Radio Navigation And Landing Aids	AD-2-UASI - 6
UASI AD 2.20	Local Traffic Regulations	AD-2-UASI - 7
UASI AD 2.21	Noise Abatement Procedures	AD-2-UASI - 7
UASI AD 2.22	Flight Procedures	AD-2-UASI - 7
UASI AD 2.23	Additional Information	AD-2-UASI - 7
UASI AD 2.24	Charts Related To An Aerodrome	AD-2-UASI - 7
UASI AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UASI - 7
UAI AD 2		AD-2-UAI - 1

UAII AD 2.1	Aerodrome Location Indicator And Name	AD-2-UAII - 1
UAII - SHYMKENT		
UAII AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UAII - 1
UAII AD 2.3	Operational Hours	AD-2-UAII - 1
UAII AD 2.4	Handling Services And Facilities	AD-2-UAII - 2
UAII AD 2.5	Passenger Facilities	AD-2-UAII - 2
UAII AD 2.6	Rescue And Fire Fighting Services	AD-2-UAII - 2
UAII AD 2.7	Seasonal Availability - Clearing	AD-2-UAII - 3
UAII AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UAII - 3
UAII AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UAII - 4
UAII AD 2.10	Aerodrome Obstacles	AD-2-UAII - 4
UAII AD 2.11	Meteorological Information Provided	AD-2-UAII - 5
UAII AD 2.12	Runway Physical Characteristics	AD-2-UAII - 6
UAII AD 2.13	Declared Distances	AD-2-UAII - 7
UAII AD 2.14	Approach And Runway Lighting	AD-2-UAII - 7
UAII AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UAII - 7
UAII AD 2.16	Helicopter Landing Area	AD-2-UAII - 8
UAII AD 2.17	ATS Airspace	AD-2-UAII - 8
UAII AD 2.18	ATS Communication Facilities	AD-2-UAII - 8
UAII AD 2.19	Radio Navigation And Landing Aids	AD-2-UAII - 9
UAII AD 2.20	Local Aerodrome Regulations	AD-2-UAII - 9
UAII AD 2.21	Noise Abatement Procedures	AD-2-UAII - 11
UAII AD 2.22	Flight Procedures	AD-2-UAII - 11
UAII AD 2.23	Additional Information	AD-2-UAII - 13
UAII AD 2.24	Charts Related To An Aerodrome	AD-2-UAII - 14
UAII AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UAII - 14
UAAT AD 2		AD-2-UAAT - 1
UAAT AD 2.1	Aerodrome Location Indicator And Name	AD-2-UAAT - 1
UAAT - TALDYKORGAN		
UAAT AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UAAT - 1
UAAT AD 2.3	Operational Hours	AD-2-UAAT - 1
UAAT AD 2.4	Handling Services And Facilities	AD-2-UAAT - 2
UAAT AD 2.5	Passenger Facilities	AD-2-UAAT - 2
UAAT AD 2.6	Rescue And Fire Fighting Services	AD-2-UAAT - 2
UAAT AD 2.7	Seasonal Availability - Clearing	AD-2-UAAT - 2
UAAT AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UAAT - 3
UAAT AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UAAT - 3
UAAT AD 2.10	Aerodrome Obstacles	AD-2-UAAT - 3
UAAT AD 2.11	Meteorological Information Provided	AD-2-UAAT - 3
UAAT AD 2.12	Runway Physical Characteristics	AD-2-UAAT - 4
UAAT AD 2.13	Declared Distances	AD-2-UAAT - 5
UAAT AD 2.14	Approach And Runway Lighting	AD-2-UAAT - 5

UAAT AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UAAT - 5
UAAT AD 2.16	Helicopter Landing Area	AD-2-UAAT - 5
UAAT AD 2.17	ATS Airspace	AD-2-UAAT - 6
UAAT AD 2.18	ATS Communication Facilities	AD-2-UAAT - 6
UAAT AD 2.19	Radio Navigation And Landing Aids	AD-2-UAAT - 6
UAAT AD 2.20	Local Aerodrome Regulations	AD-2-UAAT - 6
UAAT AD 2.21	Noise Abatement Procedures	AD-2-UAAT - 6
UAAT AD 2.22	Flight Procedures	AD-2-UAAT - 6
UAAT AD 2.23	Additional Information	AD-2-UAAT - 8
UAAT AD 2.24	Charts Related To An Aerodrome	AD-2-UAAT - 8
UAAT AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UAAT - 9
UADD AD 2		AD-2-UADD - 1
UADD AD 2.1	Aerodrome Location Indicator And Name	AD-2-UADD - 1

UADD - TARAZ

UADD AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UADD - 1
UADD AD 2.3	Operational Hours	AD-2-UADD - 1
UADD AD 2.4	Handling Services And Facilities	AD-2-UADD - 2
UADD AD 2.5	Passenger Facilities	AD-2-UADD - 2
UADD AD 2.6	Rescue And Fire Fighting Services	AD-2-UADD - 2
UADD AD 2.7	Seasonal Availability - Clearing	AD-2-UADD - 3
UADD AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UADD - 3
UADD AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UADD - 3
UADD AD 2.10	Aerodrome Obstacles	AD-2-UADD - 4
UADD AD 2.11	Meteorological Information Provided	AD-2-UADD - 4
UADD AD 2.12	Runway Physical Characteristics	AD-2-UADD - 4
UADD AD 2.13	Declared Distances	AD-2-UADD - 5
UADD AD 2.14	Approach And Runway Lighting	AD-2-UADD - 5
UADD AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UADD - 6
UADD AD 2.16	Helicopter Landing Area	AD-2-UADD - 6
UADD AD 2.17	ATS Airspace	AD-2-UADD - 6
UADD AD 2.18	ATS Communication Facilities	AD-2-UADD - 7
UADD AD 2.19	Radio Navigation And Landing Aids	AD-2-UADD - 7
UADD AD 2.20	Local Aerodrome Regulations	AD-2-UADD - 8
UADD AD 2.21	Noise Abatement Procedures	AD-2-UADD - 10
UADD AD 2.22	Flight Procedures	AD-2-UADD - 10
UADD AD 2.23	Additional Information	AD-2-UADD - 11
UADD AD 2.24	Charts Related To An Aerodrome	AD-2-UADD - 12
UADD AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UADD - 12
UATZ AD 2		AD-2-UATZ - 1
UATZ AD 2.1	Aerodrome Location Indicator And Name	AD-2-UATZ - 1

UATZ - TENGIZ

UATZ AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UATZ - 1

UATZ AD 2.3	Operational Hours	AD-2-UATZ - 1
UATZ AD 2.4	Handling Services And Facilities	AD-2-UATZ - 2
UATZ AD 2.5	Passenger Facilities	AD-2-UATZ - 2
UATZ AD 2.6	Rescue And Fire Fighting Services	AD-2-UATZ - 2
UATZ AD 2.7	Seasonal Availability - Clearing	AD-2-UATZ - 3
UATZ AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UATZ - 3
UATZ AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UATZ - 3
UATZ AD 2.10	Aerodrome Obstacles	AD-2-UATZ - 3
UATZ AD 2.11	Meteorological Information Provided	AD-2-UATZ - 4
UATZ AD 2.12	Runway Physical Characteristics	AD-2-UATZ - 4
UATZ AD 2.13	Declared Distances	AD-2-UATZ - 5
UATZ AD 2.14	Approach And Runway Lighting	AD-2-UATZ - 5
UATZ AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UATZ - 5
UATZ AD 2.16	Helicopter Landing Area	AD-2-UATZ - 6
UATZ AD 2.17	ATS Airspace	AD-2-UATZ - 6
UATZ AD 2.18	ATS Communication Facilities	AD-2-UATZ - 7
UATZ AD 2.19	Radio Navigation And Landing Aids	AD-2-UATZ - 7
UATZ AD 2.20	Local Aerodrome Regulations	AD-2-UATZ - 7
UATZ AD 2.21	Noise Abatement Procedures	AD-2-UATZ - 9
UATZ AD 2.22	Flight procedures	AD-2-UATZ - 9
UATZ AD 2.23	Additional Information	AD-2-UATZ - 11
UATZ AD 2.24	Charts Related To An Aerodrome	AD-2-UATZ - 12
UATZ AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UATZ - 12
UAUR AD 2		AD-2-UAUR - 1
UAUR AD 2.1	Aerodrome Location Indicator And Name	AD-2-UAUR - 1

UAUR - ARKALYK

UAUR AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UAUR - 1
UAUR AD 2.3	Operational Hours	AD-2-UAUR - 1
UAUR AD 2.4	Handling Services And Facilities	AD-2-UAUR - 2
UAUR AD 2.5	Passenger Facilities	AD-2-UAUR - 2
UAUR AD 2.6	Rescue And Fire Fighting Services	AD-2-UAUR - 2
UAUR AD 2.7	Seasonal Availability - Clearing	AD-2-UAUR - 3
UAUR AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UAUR - 3
UAUR AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UAUR - 3
UAUR AD 2.10	Aerodrome Obstacles	AD-2-UAUR - 3
UAUR AD 2.11	Meteorological Information Provided	AD-2-UAUR - 3
UAUR AD 2.12	Runway Physical Characteristics	AD-2-UAUR - 4
UAUR AD 2.13	Declared Distances	AD-2-UAUR - 5
UAUR AD 2.14	Approach And Runway Lighting	AD-2-UAUR - 5
UAUR AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UAUR - 5
UAUR AD 2.16	Helicopter Landing Area	AD-2-UAUR - 5
UAUR AD 2.17	ATS Airspace	AD-2-UAUR - 5

UAUR AD 2.18	ATS Communication Facilities	AD-2-UAUR - 6
UAUR AD 2.19	Radio Navigation And Landing Aids	AD-2-UAUR - 6
UAUR AD 2.20	Local Aerodrome Regulations	AD-2-UAUR - 6
UAUR AD 2.21	Noise Abatement Procedures	AD-2-UAUR - 6
UAUR AD 2.22	Flight procedures.	AD-2-UAUR - 6
UAUR AD 2.23	Additional Information	AD-2-UAUR - 6
UAUR AD 2.24	Charts Related To An Aerodrome	AD-2-UAUR - 7
UAUR AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UAUR - 7
UAIT AD 2		AD-2-UAIT - 1
UAIT AD 2.1	Aerodrome Location Indicator And Name	AD-2-UAIT - 1

UAIT - TURKISTAN

UAIT AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UAIT - 1
UAIT AD 2.3	Operational Hours	AD-2-UAIT - 1
UAIT AD 2.4	Handling Services And Facilities	AD-2-UAIT - 2
UAIT AD 2.5	Passenger Facilities	AD-2-UAIT - 2
UAIT AD 2.6	Rescue And Fire Fighting Services	AD-2-UAIT - 2
UAIT AD 2.7	Seasonal Availability - Clearing	AD-2-UAIT - 3
UAIT AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UAIT - 3
UAIT AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UAIT - 3
UAIT AD 2.10	Aerodrome Obstacles	AD-2-UAIT - 4
UAIT AD 2.11	Meteorological Information Provided	AD-2-UAIT - 4
UAIT AD 2.12	Runway Physical Characteristics	AD-2-UAIT - 4
UAIT AD 2.13	Declared Distances	AD-2-UAIT - 5
UAIT AD 2.14	Approach And Runway Lighting	AD-2-UAIT - 5
UAIT AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UAIT - 6
UAIT AD 2.16	Helicopter Landing Area	AD-2-UAIT - 6
UAIT AD 2.17	ATS Airspace	AD-2-UAIT - 6
UAIT AD 2.18	ATS Communication Facilities	AD-2-UAIT - 7
UAIT AD 2.19	Radio Navigation And Landing Aids	AD-2-UAIT - 7
UAIT AD 2.20	Local Traffic Regulations	AD-2-UAIT - 7
UAIT AD 2.21	Noise Abatement Procedures	AD-2-UAIT - 9
UAIT AD 2.22	Flight Procedures	AD-2-UAIT - 9
UAIT AD 2.23	Additional Information	AD-2-UAIT - 10
UAIT AD 2.24	Charts Related To An Aerodrome	AD-2-UAIT - 11
UAIT AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UAIT - 11
UARR AD 2		AD-2-UARR - 1
UARR AD 2.1	Aerodrome Location Indicator And Name	AD-2-UARR - 1

UARR - URALSK

UARR AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UARR - 1
UARR AD 2.3	Operational Hours	AD-2-UARR - 1
UARR AD 2.4	Handling Services And Facilities	AD-2-UARR - 2
UARR AD 2.5	Passenger Facilities	AD-2-UARR - 2

UARR AD 2.6	Rescue And Fire Fighting Services	AD-2-UARR - 2
UARR AD 2.7	Seasonal Availability - Clearing	AD-2-UARR - 2
UARR AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UARR - 2
UARR AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UARR - 3
UARR AD 2.10	Aerodrome Obstacles	AD-2-UARR - 3
UARR AD 2.11	Meteorological Information Provided	AD-2-UARR - 4
UARR AD 2.12	Runway Physical Characteristics	AD-2-UARR - 4
UARR AD 2.13	Declared Distances	AD-2-UARR - 5
UARR AD 2.14	Approach And Runway Lighting	AD-2-UARR - 5
UARR AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UARR - 5
UARR AD 2.16	Helicopter Landing Area	AD-2-UARR - 6
UARR AD 2.17	ATS Airspace	AD-2-UARR - 6
UARR AD 2.18	ATS Communication Facilities	AD-2-UARR - 6
UARR AD 2.19	Radio Navigation And Landing Aids	AD-2-UARR - 7
UARR AD 2.20	Local Aerodrome Regulations	AD-2-UARR - 7
UARR AD 2.21	Noise Abatement Procedures	AD-2-UARR - 7
UARR AD 2.22	Flight procedures	AD-2-UARR - 8
UARR AD 2.23	Additional Information	AD-2-UARR - 9
UARR AD 2.24	Charts Related To An Aerodrome	AD-2-UARR - 10
UARR AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UARR - 10
UASU AD 2		AD-2-UASU - 1
UASU AD 2.1	Aerodrome Location Indicator And Name	AD-2-UASU - 1

UASU - URDZHAR

UASU AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UASU - 1
UASU AD 2.3	Operational Hours	AD-2-UASU - 1
UASU AD 2.4	Handling Services And Facilities	AD-2-UASU - 2
UASU AD 2.5	Passenger Facilities	AD-2-UASU - 2
UASU AD 2.6	Rescue And Fire Fighting Services	AD-2-UASU - 2
UASU AD 2.7	Seasonal Availability - Clearing	AD-2-UASU - 2
UASU AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UASU - 3
UASU AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UASU - 3
UASU AD 2.10	Aerodrome Obstacles	AD-2-UASU - 3
UASU AD 2.11	Meteorological Information Provided	AD-2-UASU - 3
UASU AD 2.12	Runway Physical Characteristics	AD-2-UASU - 4
UASU AD 2.13	Declared Distances	AD-2-UASU - 4
UASU AD 2.14	Approach And Runway Lighting	AD-2-UASU - 4
UASU AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UASU - 4
UASU AD 2.16	Helicopter Landing Area	AD-2-UASU - 5
UASU AD 2.17	ATS Airspace	AD-2-UASU - 5
UASU AD 2.18	ATS Communication Facilities	AD-2-UASU - 5
UASU AD 2.19	Radio Navigation And Landing Aids	AD-2-UASU - 5
UASU AD 2.20	Local Aerodrome Regulations	AD-2-UASU - 5

UASU AD 2.21	Noise Abatement Procedures	AD-2-UASU - 5
UASU AD 2.22	Flight procedures.	AD-2-UASU - 6
UASU AD 2.23	Additional Information	AD-2-UASU - 7
UASU AD 2.24	Charts Related To An Aerodrome	AD-2-UASU - 7
UASU AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UASU - 7
UAAL AD 2		AD-2-UAAL - 1
UAAL AD 2.1	Aerodrome Location Indicator And Name	AD-2-UAAL - 1

UAAL - USHARAL

UAAL AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UAAL - 1
UAAL AD 2.3	Operational Hours	AD-2-UAAL - 1
UAAL AD 2.4	Handling Services And Facilities	AD-2-UAAL - 1
UAAL AD 2.5	Passenger Facilities	AD-2-UAAL - 2
UAAL AD 2.6	Rescue And Fire Fighting Services	AD-2-UAAL - 2
UAAL AD 2.7	Seasonal Availability - Clearing	AD-2-UAAL - 2
UAAL AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UAAL - 2
UAAL AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UAAL - 3
UAAL AD 2.10	Aerodrome Obstacles	AD-2-UAAL - 3
UAAL AD 2.11	Meteorological Information Provided	AD-2-UAAL - 3
UAAL AD 2.12	Runway Physical Characteristics	AD-2-UAAL - 4
UAAL AD 2.13	Declared Distances	AD-2-UAAL - 4
UAAL AD 2.14	Approach And Runway Lighting	AD-2-UAAL - 4
UAAL AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UAAL - 5
UAAL AD 2.16	Helicopter Landing Area	AD-2-UAAL - 5
UAAL AD 2.17	ATS Airspace	AD-2-UAAL - 5
UAAL AD 2.18	ATS Communication Facilities	AD-2-UAAL - 5
UAAL AD 2.19	Radio Navigation And Landing Aids	AD-2-UAAL - 6
UAAL AD 2.20	Local Aerodrome Regulations	AD-2-UAAL - 6
UAAL AD 2.21	Noise Abatement Procedures	AD-2-UAAL - 6
UAAL AD 2.22	Flight Procedures	AD-2-UAAL - 6
UAAL AD 2.23	Additional Information	AD-2-UAAL - 7
UAAL AD 2.24	Charts Related To An Aerodrome	AD-2-UAAL - 7
UAAL AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UAAL - 7
UASK AD 2		AD-2-UASK - 1
UASK AD 2.1	Aerodrome Location Indicator And Name	AD-2-UASK - 1

UASK - UST-KAMENOGORSK

UASK AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UASK - 1
UASK AD 2.3	Operational Hours	AD-2-UASK - 1
UASK AD 2.4	Handling Services And Facilities	AD-2-UASK - 2
UASK AD 2.5	Passenger Facilities	AD-2-UASK - 2
UASK AD 2.6	Rescue And Fire Fighting Services	AD-2-UASK - 2
UASK AD 2.7	Seasonal Availability - Clearing	AD-2-UASK - 2
UASK AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UASK - 3

UASK AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UASK - 3
UASK AD 2.10	Aerodrome Obstacles	AD-2-UASK - 3
UASK AD 2.11	Meteorological Information Provided	AD-2-UASK - 4
UASK AD 2.12	Runway Physical Characteristics	AD-2-UASK - 4
UASK AD 2.13	Declared Distances	AD-2-UASK - 5
UASK AD 2.14	Approach And Runway Lighting	AD-2-UASK - 5
UASK AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UASK - 5
UASK AD 2.16	Helicopter Landing Area	AD-2-UASK - 5
UASK AD 2.17	ATS Airspace	AD-2-UASK - 6
UASK AD 2.18	ATS Communication Facilities	AD-2-UASK - 6
UASK AD 2.19	Radio Navigation And Landing Aids	AD-2-UASK - 7
UASK AD 2.20	Local Aerodrome Regulations	AD-2-UASK - 7
UASK AD 2.21	Noise Abatement Procedures	AD-2-UASK - 7
UASK AD 2.22	Flight procedures.	AD-2-UASK - 7
UASK AD 2.23	Additional Information	AD-2-UASK - 11
UASK AD 2.24	Charts Related To An Aerodrome	AD-2-UASK - 12
UASK AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UASK - 13
UASZ AD 2		AD-2-UASZ - 1
UASZ AD 2.1	Aerodrome Location Indicator And Name	AD-2-UASZ - 1

UASZ - ZAISAN

UASZ AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UASZ - 1
UASZ AD 2.3	Operational Hours	AD-2-UASZ - 1
UASZ AD 2.4	Handling Services And Facilities	AD-2-UASZ - 2
UASZ AD 2.5	Passenger Facilities	AD-2-UASZ - 2
UASZ AD 2.6	Rescue And Fire Fighting Services	AD-2-UASZ - 2
UASZ AD 2.7	Seasonal Availability - Clearing	AD-2-UASZ - 2
UASZ AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UASZ - 3
UASZ AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UASZ - 3
UASZ AD 2.10	Aerodrome Obstacles	AD-2-UASZ - 3
UASZ AD 2.11	Meteorological Information Provided	AD-2-UASZ - 3
UASZ AD 2.12	Runway Physical Characteristics	AD-2-UASZ - 4
UASZ AD 2.13	Declared Distances	AD-2-UASZ - 4
UASZ AD 2.14	Approach And Runway Lighting	AD-2-UASZ - 4
UASZ AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UASZ - 4
UASZ AD 2.16	Helicopter Landing Area	AD-2-UASZ - 5
UASZ AD 2.17	ATS Airspace	AD-2-UASZ - 5
UASZ AD 2.18	ATS Communication Facilities	AD-2-UASZ - 5
UASZ AD 2.19	Radio Navigation And Landing Aids	AD-2-UASZ - 5
UASZ AD 2.20	Local Aerodrome Regulations	AD-2-UASZ - 5
UASZ AD 2.21	Noise Abatement Procedures	AD-2-UASZ - 5
UASZ AD 2.22	Flight Procedures	AD-2-UASZ - 6
UASZ AD 2.23	Additional Information	AD-2-UASZ - 7

UASZ AD 2.24	Charts Related To An Aerodrome	AD-2-UASZ - 7
UASZ AD 2.25	Visual segment surface (VSS) penetrations	AD-2-UASZ - 7
UAKD AD 2		AD-2-UAKD - 1
UAKD AD 2.1	Aerodrome Location Indicator And Name	AD-2-UAKD - 1

UAKD - ZHEZKAZGAN

UAKD AD 2.2	Aerodrome Geographical And Administrative Data	AD-2-UAKD - 1
UAKD AD 2.3	Operational Hours	AD-2-UAKD - 1
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UAKD AD 2.6	Rescue And Fire Fighting Services	AD-2-UAKD - 2
UAKD AD 2.7	Seasonal Availability - Clearing	AD-2-UAKD - 2
UAKD AD 2.8	Aprons, Taxiways And Check Locations/Positions Data	AD-2-UAKD - 3
UAKD AD 2.9	Surface Movement Guidance And Control System And Markings	AD-2-UAKD - 3
UAKD AD 2.10	Aerodrome Obstacles	AD-2-UAKD - 3
UAKD AD 2.11	Meteorological Information Provided	AD-2-UAKD - 3
UAKD AD 2.12	Runway Physical Characteristics	AD-2-UAKD - 4
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UAKD AD 2.14	Approach And Runway Lighting	AD-2-UAKD - 5
UAKD AD 2.15	Other Lighting, Secondary Power Supply	AD-2-UAKD - 5
UAKD AD 2.16	Helicopter Landing Area	AD-2-UAKD - 5
UAKD AD 2.17	ATS Airspace	AD-2-UAKD - 5
UAKD AD 2.18	ATS Communication Facilities	AD-2-UAKD - 6
UAKD AD 2.19	Radio Navigation And Landing Aids	AD-2-UAKD - 6
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UAKD AD 2.23	Additional Information	AD-2-UAKD - 10
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AD 1.3 INDEX TO AERODROMES AND HELIPORTS

Aerodrome/heliport name Location indicator	Type of traffic permitted to use the aerodrome/heliport			Reference to AD Section and remarks
	International- National (INTL- NTL)	IFR-VFR	S = Scheduled NS = Non-scheduled P = Private	
1	2	3	4	5
AKTAU UATE	INTL-NTL	IFR-VFR	S-NS	AD 2 UATE
AKTOBE UATT	INTL-NTL	IFR-VFR	S-NS	AD 2 UATT
ALMATY UAAA	INTL-NTL	IFR-VFR	S-NS	AD 2 UAAA
ARKALYK UAUR	NTL	IFR-VFR	S-NS	AD 2 UAUR
ASTANA UACC	INTL-NTL	IFR-VFR	S-NS	AD 2 UACC
ATYRAU UATG	INTL-NTL	IFR-VFR	S-NS	AD 2 UATG
BALKHASH UAAH	NTL	IFR-VFR	S-NS	AD 2 UAAH
BOZHBAN UAIK	INTL-NTL	IFR-VFR	P	AD 2 UAIK
KARAGANDA UAKK	INTL-NTL	IFR-VFR	S-NS	AD 2 UAKK
KOKSHETAU UACK	INTL-NTL	IFR-VFR	S-NS	AD 2 UACK
KOSTANAY UAUU	INTL-NTL	IFR-VFR	S-NS	AD 2 UAUU
KYZYLORDA UAOO	INTL-NTL	IFR-VFR	S-NS	AD 2 UAEO
PAVLODAR UASP	INTL-NTL	IFR-VFR	S-NS	AD 2 UASP
PETROPAVLOVSK UACP	INTL-NTL	IFR-VFR	S-NS	AD 2 UACP
SATPAY UASI	NTL	IFR-VFR	S-NS	AD 2 UASI
SEMEY UASS	INTL-NTL	IFR-VFR	S-NS	AD 2 UASS
SHYMKENT UAII	INTL-NTL	IFR-VFR	S-NS	AD 2 UAII
TALDYKORGAN UAAT	NTL	IFR-VFR	S-NS	AD 2 UAAT

Aerodrome/heliport name Location indicator	Type of traffic permitted to use the aerodrome/heliport			Reference to AD Section and remarks
	International- National (INTL- NTL)	IFR-VFR	S = Scheduled NS = Non-scheduled P = Private	
1	2	3	4	5
TARAZ UADD	INTL-NTL	IFR-VFR	S-NS	AD 2 UADD
TENGIZ UATZ	NTL	IFR-VFR	P	AD 2 UATZ
TURKISTAN UAIT	INTL-NTL	IFR-VFR	S-NS	AD 2 UAIT
URALSK UARR	INTL-NTL	IFR-VFR	S-NS	AD 2 UARR
URDZHAR UASU	NTL	IFR-VFR	S-NS	AD 2 UASU
USHARAL UAAL	NTL	IFR-VFR	S-NS	AD 2 UAAL
UST- KAMENOGORSK UASK	INTL-NTL	IFR-VFR	S-NS	AD 2 UASK
ZAISAN UASZ	NTL	IFR-VFR	S-NS	AD 2 UASZ
ZHEZKAZGAN UAKD	INTL-NTL	IFR-VFR	S-NS	AD 2 UAKD

AD 1.5 STATUS OF CERTIFICATION OF AERODROMES

1 The table below shows the aerodromes certificates and their validity periods.

2 Accepted exceptions, exemptions and restrictions for each aerodrome have been published in AIP AD
2.23.

Aerodrome name Location indicator	Certification date	Certificate validity	Remarks
1	2	3	4
AKTAU UATE	03.07.2024	28.08.2026	Nil
AKTOBE UATT	23.09.2025	17.09.2027	Nil
ALMATY UAAA	25.06.2025	28.10.2027	Nil
ASTANA UACC	22.12.2024	10.09.2027	Nil
ATYRAU UATG	10.10.2025	09.10.2028	Nil
BALKHASH UAAH	28.04.2026	30.04.2027	Nil
BOZHBAN UAIK	06.02.2026	30.09.2026	Nil
KARAGANDA UAKK	24.09.2025	24.09.2027	Nil
KOKSHETAU UACK	12.07.2024	24.07.2026	Nil
KOSTANAY UAUU	24.10.2024	23.10.2026	Nil
KYZYLORDA UAOO	11.10.2024	09.10.2026	Nil
PAVLODAR UASP	02.08.2023	04.08.2025	Nil
PETROPAVLOVSK UACP	13.11.2025	12.11.2027	Nil
SEMEY UASS	22.10.2025	17.11.2028	Nil
SHYMKENT UAIL	23.04.2026	27.04.2029	Nil
TALDYKORGAN UAAT	16.07.2025	17.07.2026	Nil
TARAZ UADD	21.08.2025	22.10.2027	Nil

Aerodrome name Location indicator	Certification date	Certificate validity	Remarks
1	2	3	4
TENGIZ UATZ	17.07.2025	27.10.2028	Nil
TURKISTAN UAIT	02.06.2025	01.10.2027	Nil
URALSK UARR	29.10.2025	31.10.2028	Nil
URDZHAR UASU	22.11.2024	05.06.2026	Nil
USHARAL UAAL	10.10.2025	03.07.2026	Nil
UST-KAMENOGORSK UASK	11.02.2025	20.08.2027	Nil
ZAISAN UASZ	05.06.2025	04.09.2026	Nil
ZHEZKAZGAN UAKD	19.12.2023	30.06.2026	Nil

For the most up-to-date information on aerodrome certification status, including temporary extensions or changes, refer to applicable NOTAMs.

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: blue
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: blue

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	Diesel generator unit; changeover time – 15 s.
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)	128 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.

vacation of the RWY.

2. VFR procedures within the aerodrome control zone (CTR)

Air traffic service in the control zone of the aerodrome is carried out by the controller of the "Tower" ATC unit. Flight altitudes are calculated by the aircraft crew in accordance with the Civil Aviation Flight Rules of the Republic of Kazakhstan. The functions of Air traffic service does not include ground collision avoidance. The aircraft crew shall ensure that the clearance issued by the ATS unit in this regard is safe. VFR flights are performed at the altitudes indicated in the flight plan or requested by the aircraft crew.

Flights must not be performed over populated areas within the control zone.

For VFR flights, the aerodrome has a flight circle (left / right). The air traffic controller of the "Tower" ATC unit is determine and report which flight circle is in use.

Entering the flight circle, crossing the runway alignment is made only with the permission of the air traffic controller of the "Tower" ATC unit.

The aircraft crew preliminarily agrees with the ATS unit the flight area and altitude range during aerial work in the control zone at absolute altitudes.

When entering the control zone (CTR) from uncontrolled airspace, the aircraft crew must obtain an air traffic control clearance 5 minutes before the estimated time of entering the controlled airspace.

Entry / exit of aircraft of category A and helicopters flying in VFR to / from the control zone (CTR is carried out at the shortest distance through the corresponding point.

If the air situation requires the holding procedure, the air traffic controller of the "Tower" ATC unit gives the instructions to the aircraft crew to follow to one of the holding points.

No	Waypoint name (visual reference)	Geographical coordinates	Radial (mag.) and distance from NAVAID (ARP)	Clearance altitude	Remarks
1	ALPHA (northern outskirts of Saryzhar)	N503110 E0565449	316° 18.5 nm AKB DVOR/DME	1400 FT AMSL and above	Entry/exit/ holding
2	BRAVO (western outskirts of Petropavlovka)	N503212 E0572618	021° 19.1 nm AKB DVOR/DME	1600 FT AMSL and above	Entry/exit/ holding
3	CHARLIE (southern outskirts of Ulke)	N501736 E0573954	074° 18.7 nm AKB DVOR/DME	1600 FT AMSL and above	Entry/exit/ holding
4	DELTA	N500204 E0574243	113° 24.7 nm AKB DVOR/DME	1600 FT AMSL and above	Entry/exit/ holding
5	HOTEL (western outskirts of Alga)	N495345 E0571844	157° 22.6 nm AKB DVOR/DME	1400 FT AMSL and above	Entry/exit/ holding
6	LIMA (southern outskirts of Ernazar)	N500221 E0565157	212° 18.2 nm AKB DVOR/DME	1600 FT AMSL and above	Entry/exit/ holding
7	MIKE (southern outskirts of Kaiyndysai)	N501500 E0563927	258° 20.2 nm AKB DVOR/DME	1600 FT AMSL and above	Entry/exit/ holding

UATT AD 2.23 Additional Information

1. Accepted exceptions, exemptions and restrictions in aerodrome certificate.

Regulatory reference	Requirement of regulations	Description of exceptions, exemptions and restrictions	Measures taken and validity period
Paragraph 440 of the State Aerodrome Operation Manual of the Civil Aviation Administration of the Republic of Kazakhstan, 2015 (as amended on 13 January 2021).	Nil	Nil	An equivalent level of safety has been approved from 13.02.2026 to 31.12.2026

2. Ornithological situation

At the airport Aktobe, a bird / wildlife collision avoidance program is being carried out to reduce the risks of birds and wildlife at the airport and its surroundings. The program includes the following elements:

- appointment of responsible personnel;
- procedure for messaging, collecting and recording data on the bird / wildlife collisions;
- procedure for analyzing data and hazard assessment of the bird / wildlife collisions;
- procedure for the habitat and land use control at the airport and its surroundings, including the use of effective methods for grass care and cutting in the airfield;
- measures to scare away or disperse dangerous birds / wildlife;
- with landowners, providing the airport operator with information on events that may cause an additional danger of bird strikes; including changes in infrastructure, grass cover, land use regulations and the nature of activities in the vicinity of the airport, which may attract birds / wildlife;
- holding meetings with all partners participating in the work of the committee on preventing birds / wildlife collisions at the airport.

Winter period (end of November - February).

It is characterized by relatively simple and stable ornithological situation. During this period, individual bird migrations (crows, pigeons) are mainly observed. The most active flights are observed in the morning (02:30-03:30 UTC) and evening (12:20-13:20 UTC) hours.

Spring period (March-May).

It is characterized by the beginning of the spring migration of birds. Flocks of birds (ducks, geese, swans, gulls, etc.) are observed from 15:00 to 02:00 UTC, as well as individual flights during daylight hours.

Early summer period - late summer period (mid-May - August).

During these periods, active flight of birds (gulls, crows, pigeons) is observed in the morning hours (23:30-01:30 UTC) and evening hours (15:30-17:30 UTC). And also in the presence of cloudiness and precipitation birds migrate during the daytime as well.

Autumn period (September-November).

Beginning of fall migration of birds (ducks, geese, swans, gulls, etc.) from 15:00 to 02:00 UTC, as well as some flights of birds during daylight hours.

During these periods pilots are recommended to turn on landing lights when flying in the airfield area, during takeoff, landing approach, as well as during climb and descent.

Height

Flight altitudes depend on the season and weather conditions. Different bird species move at different altitudes.

Approximate flight heights of different bird species occurring on the airfield and at the aerodrome area:

- ducks - from 295 to 9842 FT;
- 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

UATT AD 2.25 Visual segment surface (VSS) penetrations

No penetrations

UAAA AD 2

Note: The following sections in this chapter are intentionally left blank: AD-2.10

UAAA AD 2.1 Aerodrome Location Indicator And Name

UAAA - ALMATY

UAAA AD 2.2 Aerodrome Geographical And Administrative Data

1	ARP coordinates and site at AD	432120N 0770238E 054°/2676m from THR 05R
2	Direction and distance from (city)	31°, 8.1 NM from Almaty center
3	Elevation/Reference temperature	2238 FT/29.5° C
4	Geoid undulation at AD ELEV PSN	-148 FT
5	MAG VAR/Annual Change	5° E (2023) / 0.01°
6	AD Administration, address, telephone, telefax, telex, AFS	Post: Authority of Airport 2 Mailin str. 050039 Almaty, JSC "Almaty International Airport" Republic of Kazakhstan Phone: +7 (727) 3888888 Phone: +7 (727) 3888884 Fax: +7 (727) 3888885 AFS: UAAAAPBF AFS: UAAAAPDU Email: info_ala@tav.aero
7	Types of traffic permitted (IFR/VFR)	IFR-VFR
8	Remarks	Nil

UAAA AD 2.3 Operational Hours

1	AD Operator	H24 Phone: +7 (727) 3888888
2	Customs and immigration	H24 Phone: +7 (727) 2703409
3	Health and sanitation	H24
4	AIS Briefing Office	H24
5	ATS Reporting Office (ARO)	H24 Phone: +7 (727) 2573217 Fax: +7 (727) 2573724
6	MET Briefing Office	H24 Phone: +7 (727) 2574029 Phone: +7 (727) 2572803
7	ATS	H24
8	Fuelling	H24
9	Handling	H24 Phone: +7 (727) 3888445
10	Security	H24
11	De-icing	H24

12	Remarks	Nil

UAAA AD 2.4 Handling Services And Facilities

1	Cargo-handling facilities	Modern handling up to 30 tonnes weight
2	Fuel/oil types	TS-1, RT(equivalent to Jet A-1)/ MS-20, MS-8P
3	Fuelling facilities/capacity	AVBL, Modern tankers without limitation
4	De-icing facilities	De-icing fluid treatment machines - 6 units
5	Hangar space for visiting aircraft	Available by prior request
6	Repair facilities for visiting aircraft	Repairs at aircraft repair base.
7	Remarks	Nil

UAAA AD 2.5 Passenger Facilities

1	Hotels	Airport hotel, city hotel
2	Restaurants	AVBL
3	Transportation	Buses, taxis
4	Medical facilities	Aid post at Airport Terminal, ambulance service, hospitals in Almaty
5	Bank and Post Office	Banks, bank ATM, currency exchange, post office
6	Tourist Office	AVBL
7	Remarks	Nil

UAAA AD 2.6 Rescue And Fire Fighting Services

1	AD category for fire fighting	CAT A9
2	Rescue equipment	Modern rescue equipment. 5 fire engines with a total volume of fire-fighting composition - 60 600kg.
3	Capability for removal of disabled aircraft	Recovery equipment available: Lifting bags Kunz RLB 30-14, 30-17, 45-17. Lifting capacity up to 44t. Dollies Kunz 7-1000, 90-2200, load capacity 10t and 90t. Kunz Lifting Sling system, lifting capacity range 3t-55t. Ground Reinforcement mats Kunz Mammoth-Trakmat. Chains, jacks, hoists, hooks.
4	Remarks	Nil

UAAA AD 2.7 Seasonal Availability - Clearing

1	Types of clearing equipment	10 plow-brush equipment with turbo pipes, 3 rotors, 3 wind machines, 5 spraders (reagent sprayers), 5 pushers for cleaning the snow shafts, 1 sidewalk cleaning machine per runway, 2 graders, 2 bulldozers, 1 snow rolling machine, Other modern snow removal equipment. The anti-icing granular reagent "NKMM" and the anti-icing liquid reagent NORDWEIF of the NORM brand are used to remove ice from airfield coatings.

UAAA AD 2.23 Additional Information

1. Accepted exceptions, exemptions and restrictions in aerodrome certificate.

Regulatory reference	Requirement of regulations	Description of exceptions, exemptions and restrictions	Measures taken and validity period
Section 2. point 16. Standards of Aerodromes (Heliports) Operation Civil Aviation Republic Kazakhstan.	Runway strip physical characteristics	Runway strip for runway 05R/23L, has dimensions less than the established in legislation.	An equivalent level of safety has been approved 06.03.2026 to 31.12.2026
Section 10. point 168. Standards of Aerodromes (Heliports) Operation Civil Aviation Republic Kazakhstan.	The length of the approach lights	The length of the approach lights with landing direction 51* for runway 05R/23L is less than the established in legislation.	Does not affect for operations.
Section 2. point 43. Standards of Aerodromes (Heliports) Operation Civil Aviation Republic Kazakhstan.	Radius of turn-off curve	Radius of turn-off curve is less than the established in legislation.	Restrictions on turning-off for aircrafts with the code letter C and higher until the reconstruction of this section

2. Ornithological situation in the aerodrome area.

The ornithological situation in the aerodrome area is determined by the seasonal and daily migration of birds. The Almaty aerodrome is surrounded by fields and residential areas, and on the approach to RWY 23L, 23R by agricultural fields.

2.1 Seasonal migration of birds (time)

The period of spring migration - activity from late February to late May, the most active peak migration in April, but there may be changes when the climatic conditions change. The danger is posed by rooks, jackdaws, pigeons, buzzards, kestrels, kites, pheasants, cranes, owls, rolling rollers, ducks, waders, etc. Bird activity is observed in the morning hours from 00:00 to 03:00 (UTC) and in the evening from 12:00 to 15:00 (UTC).

The period of autumn migration is active from mid-August to the end of November, also depending on the climate and sharp changes in weather conditions.

The danger is posed by rooks, jackdaws, pigeons, buzzards, kestrels, kites, pheasants, cranes, owls, rolling rollers, ducks, waders, etc.

The most active flight hours are from 23:00 to 03:00 (UTC), evening movements from 11:00 to 15:00 (UTC).

The intensity of bird migration increases during agricultural work and the maturation of cereals and other crops.

During these times, pilots are advised to turn on landing lights when flying in the aerodrome area, during takeoff, landing approach, and during climb and descent.

Spring and Autumn periods are characterized by movements of migratory birds: rooks flights 300-600 individuals from 01:00 to 03:00 hours (UTC) from west to east and from 12:00 to 15:00 (UTC) from east to west at the altitude of 200-600 FT.

In **summer**, in the morning and evening hours, a flight of flocks of birds of prey from 5 to 20 individuals is observed at a relative altitude of up to 600 FT and rollers at an altitude of 33 FT. All year round, there are flights of pigeons, corvids at relative altitude of up to 200 FT in flocks of 15-25 individuals and more.

2.2 Direction

The main directions of migration in spring are from southwest to northeast, in autumn in the opposite direction. In autumn, in the area of the aerodrome and at the aerodrome, a large number of mynah, black crows are accumulated, representing a serious danger for flights from sunrise to sunset.

On the territory of the airside area, the main flights occur from NW to SE and in the opposite direction.

2.3 Altitude

The altitude of flights depends on the season and weather conditions. Different types of birds fly at different heights.

Approximate heights of flights of various bird species found on the airfield and near the airside area and aerodrome:

- ducks - from 295 to 9842 FT;
- larks and various waders - from 131 to 4593 FT;
- birds of prey - from 328 to 26246 FT;
- lane and pink starlings - from 133 to 1509 FT;
- swallows - from 16 to 66 FT;
- seagulls - from 328 to 1640 FT;
- sparrows - from 16 to 49 FT;
- owls - from 16 to 98 FT;
- pheasants - from 3 to 16 FT;

2.4 Intensity of bird migration

Bird migration takes place around the clock.

2.5 Daily migration of birds

2.5.1 Daily migration of birds (time)

From dawn to the onset of evening twilight

2.5.2 Direction

Flights over the terrain and to feeding bases with the intersection of the takeoff and landing course from NW to SE.

2.5.3 Altitude

Flights from 32 to 492 FT. Mass flights of corvids at altitudes of 164-1640 FT.

2.6 Radar control over the flying of birds

Radar control over the flying of birds in the area of the aerodrome is not provided.

2.7 Information transmission

Information about the ornithological situation is transmitted via the ATIS broadcasting channel in English and Russian and, if necessary, through the ATM dispatcher. In case of complication of the ornithological situation in the aerodrome area, it is possible for a short-term inclusion in the ATIS report of additional concretizing information about the peculiarities of the ornithological situation.

3	Capability for removal of disabled aircraft	1. Contact details of personnel responsible for aircraft evacuation. Head of complex shift: Phone: +7 (7172) 777980 Phone: +7 (7172) 777721 Email: pdsashift@nn-airport.kz Office: Phone: +7 (7172) 777307 Email: office@nn-airport.kz 2. Availability of means to conduct emergency evacuation operations - Platform for recovery of aircraft that has lost ability to move designed to lift an aircraft (AC) with a wheel diameter of up to 750 mm (tire or disk diameter) and a maximum wheel width of up to 350 mm with a weighting pressure of no more than 12 tons - Platform for recovery of aircraft that has lost ability to move designed to lift an aircraft (AC) with a wheel diameter up to 1300 mm and certain width (width of platform is 1600 mm). Maximum weighting pressure is 30 tons. - List of towing bars for AC recovery from aerodrome: A-300; A-310; A-318,319,320,321; A-330; A-340; A-350; B-737; B-747; B-757; B-767; B-777; B-787; AN-24,26; YAK-40; YAK-42; IL-62; IL-96; TU-134; TU-154; TU-204; TU-214; DC-9; DC-10; MD-11; MD-80,81,82,83,90,95; L-1011; E-170,175,190,195 - Aircraft recovery kit in case of damage to the nose and/or main landing gear - Elements for laying on the ground (mats) - Compressor - Universal set of lifting straps for narrow- and wide-body aircraft (except A380) - Devices for towing emergency aircraft that have lost the ability to move - Aircraft delay equipment
4	Remarks	Equipment for towing emergency aircraft that have lost the ability to move for the evacuation of aircraft such as B747, B777, A340, A350, MD11 and alike. The main guideline for the weight of an empty aircraft is from 80,000 kg to 215,000 kg.

UACC AD 2.7 Seasonal Availability - Clearing

1	Types of clearing equipment	12 plow-brush equipment with turbo pipes, 3 augers, 1 wind machine, 2 trailed reagent sprayers, 1 pusher for cleaning of snow shafts, 1 side lamp cleaning machine on the runway, other modern snow removal equipment
2	Clearance priorities	1. RWY, TWY A, E, P, B, C, H, M, J, stands 1-10, 100 2. TWY L, J, B, D, apron A, B, C, D 3. Cleaning the runway strip along the entire length to a width of 25 meters from the runway border, cleaning of the verges of parking stands and apron with the interface layout, cleaning of access roads to radio navigation and communication facilities (CNS facilities), fuel and lubricants, inside the aerodrome roads and other works

3	Remarks	Seasonal availability: All seasons, caution advised in winter during snow conditions Information on the de-icing liquids and deicing reagents used is published in the AIC circular in the section SEASONAL SNOWFALL PLAN FOR THE WINTER SEASON

UACC AD 2.8 Aprons, Taxiways And Check Locations/Positions Data

1	Apron surface and strength	APRON	STANDS	SURFACE	STRENGTH
		A	1,4,5,6,19	CONC+ASPH	PCN 66/F/C/W/T
			2,3,17,18	REINF/CONC	PCN 66/R/B/W/T
			7L, 7, 7R, 8L, 8, 8R, 9L, 9, 9R		PCN 69/R/B/W/T
			10,11	CONC+ASPH	PCN 17/R/B/X/T
			12-16		PCN 60/F/C/W/T
			20-23		PCN 93/F/C/W/T
			24-28		PCN 14/R/B/X/T
			29-30		PCN 28/F/C/Y/T
			37-42, 44-49		PCN 53/F/C/Y/T
		B	70-83, 85-88, 90-94		PCN 60/F/C/X/T
			84, 89, 95		PCN 73/F/C/W/T
		C	100-104		PCN 79/F/C/W/T
		D	31-33		PCN 28/F/C/Y/T
			1B-4B		Nil
		K	1K-5K		PCN 36/F/C/X/T

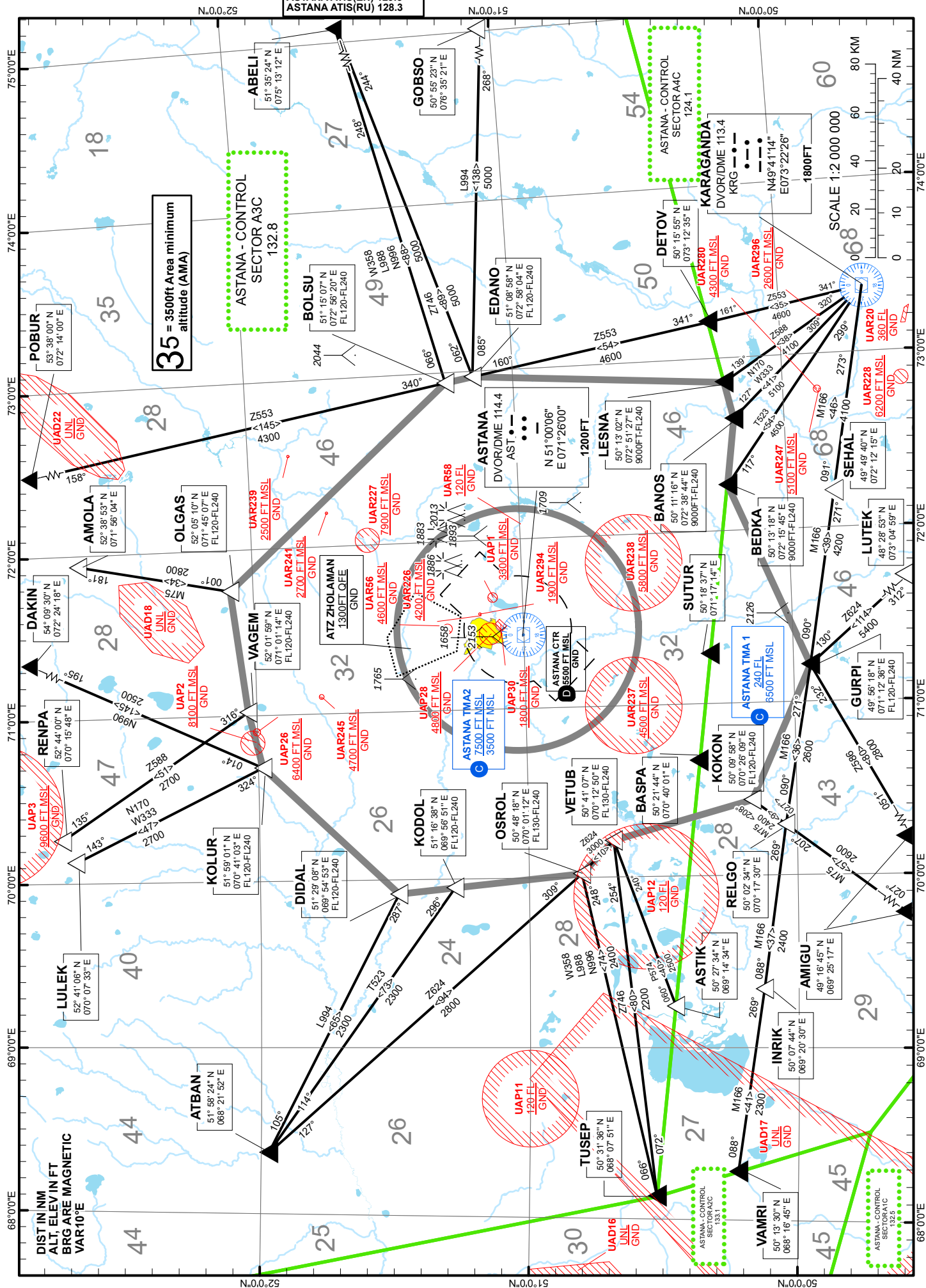
AREA
CHART - ICAO

TMA ASTANA
NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT

ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA GROUND 119.6
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3

CHANGE: UAP30 add.

DIST IN NM
ALT. ELEV IN FT
BRG ARE MAGNETIC
VAR 10°E



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STANDARD DEPARTURE
CHART - INSTRUMENT
(SID) - ICAO

TRANSITION ALTITUDE
10000 FT

ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3

OLGAS 5E, BOLSU 5E,
EDANO 5E, BANOS 4E,
GURPI 4E, KOKON 5E,
OSROL 6E VETUB 5E,
DIDAL 5E, VAGEM 5E,
DIDAL 2F.

ASTANA
NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
RWY 04

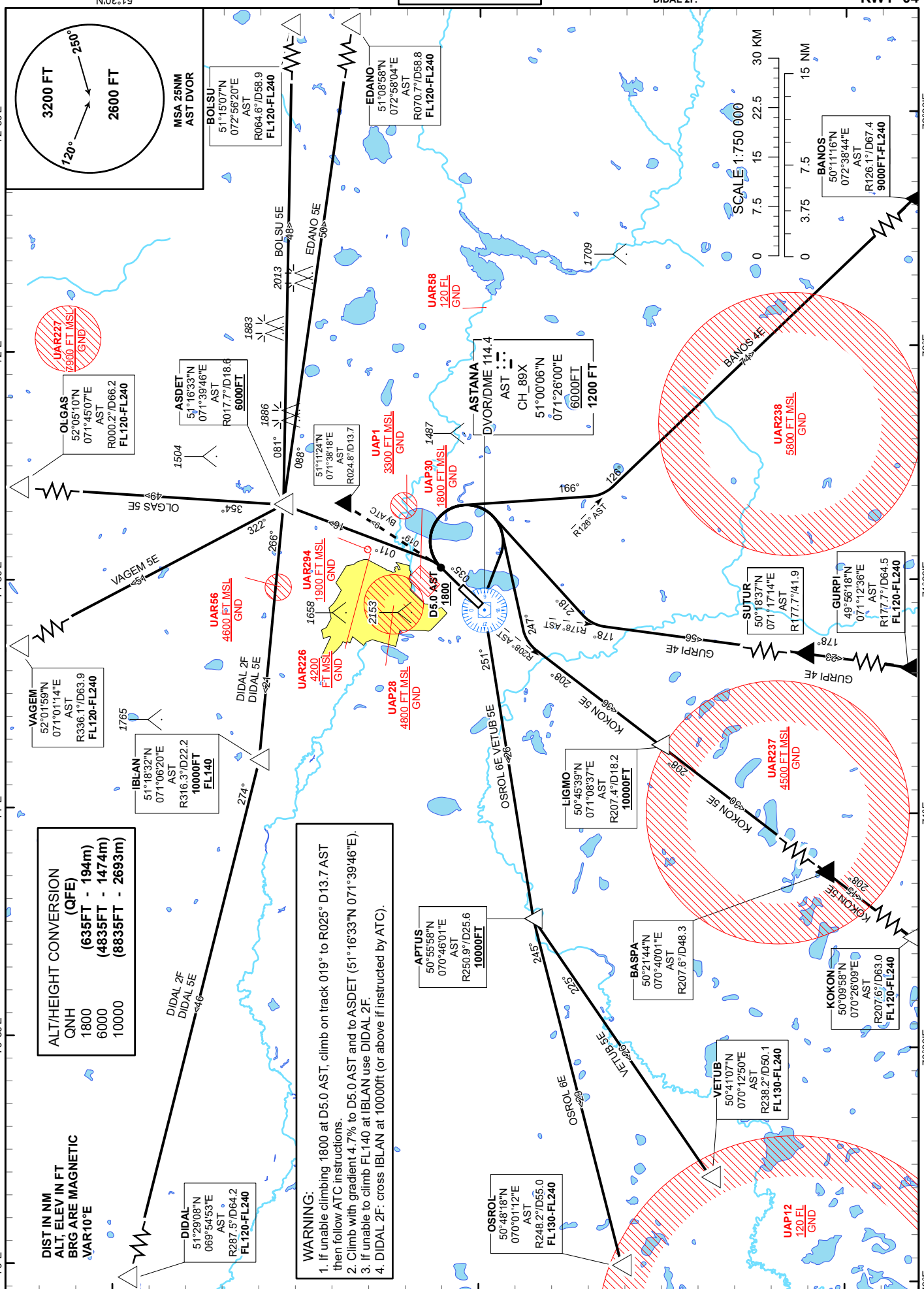
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CHANGE: UAP30 add.

ALT/HEIGHT CONVERSION
(QFE)
QNH 1800 (635FT - 194m)
6000 (4835FT - 1474m)
10000 (8835FT - 2693m)

DIST IN NM
ALT, ELEV IN FT
BRG ARE MAGNETIC
VAR 10°E

WARNING:
1. If unable climbing 1800 at D5.0 AST, climb on track 019° to R025° D13.7 AST then follow ATC instructions.
2. Climb with gradient 4.7% to D5.0 AST and to ASDET (51°16'33"N 071°39'46"E).
3. If unable to climb FL140 at IBLAN use DIDAL 2F.
4. DIDAL 2F: cross IBLAN at 10000ft (or above if instructed by ATC).



STANDARD DEPARTURE ROUTES - INSTRUMENT (SID) ASTANA RWY 04
OLGAS 5E After take-off climb straight ahead to 1800 or above, at D5.0NM outbound DME AST turn LEFT on track 011° to ASDET (R017.7° D18.6 AST), turn LEFT on track 354° to OLGAS (R000.2° D66.2 AST). Cross ASDET at 6000 or above. Cross OLGAS at FL120-FL240
BOLSU 5E After take-off climb straight ahead to 1800 or above, at D5.0NM outbound DME AST turn LEFT on track 011° to ASDET (R017.7° D18.6 AST), turn right on track 081° to BOLSU (R064.6° D58.9 AST). Cross ASDET at 6000 or above. Cross BOLSU at FL120-FL240
BANOS 4E After take-off climb straight ahead to 1800 or above, at D5.0NM outbound DME AST turn RIGHT on track 166° until intercept R126°AST, then proceed on track 126° to BANOS (R126.1° D67.4 AST). Cross BANOS at FT9000-FL240
KOKON 5E After take-off climb straight ahead to 1800 or above, at D5.0NM outbound DME AST turn RIGHT on track 247° until intercept R208°AST, then proceed on track 208° to LIGMO (R207.4° D18.2 AST), after crossing LIGMO proceed on track 208° to BASPA (R207.6° D48.3 AST), proceed on track 208° to KOKON (R207.6° D63.0 AST). Cross LIGMO at 10000 or above. Cross KOKON at FL120-FL240
OSROL 6E After take-off climb straight ahead to 1800 or above, at D5.0NM outbound DME AST turn RIGHT to DVOR/DME AST. After crossing DVOR/DME AST proceed on track 251° to APTUS (R250.9° D25.6 AST). After crossing APTUS, turn LEFT on track 245° to OSROL (R248.2° D55.0 AST). Cross DVOR/DME AST at 6000 or above. Cross APTUS at 10000 or above. Cross OSROL at FL130-FL240
VETUB 5E After take-off climb straight ahead to 1800 or above, at D5.0NM outbound DME AST turn RIGHT to DVOR/DME AST. After crossing DVOR/DME AST proceed on track 251° to APTUS (R250.9° D25.6 AST). After crossing APTUS turn LEFT on track 225° to VETUB (R238.2° D50.1 AST). Cross DVOR/DME AST at 6000 or above. Cross APTUS at 10000 or above. Cross VETUB at FL130-FL240
DIDAL 5E After take-off climb straight ahead to 1800 or above, at D5.0NM outbound DME AST turn LEFT on track 011° to ASDET (R017.7° D18.6 AST), turn LEFT on track 266° to IBLAN (R316.3° D22.2 AST), then turn RIGHT on track 274° to DIDAL (R287.5° D64.2 AST). Cross ASDET at 6000 or above. Cross IBLAN at FL140 or above. Cross DIDAL at FL120-FL240
DIDAL 2F After take-off climb straight ahead to 1800 or above, at D5.0NM outbound DME AST turn LEFT on track 011° to ASDET (R017.7° D18.6 AST), turn LEFT on track 266° to IBLAN (R316.3° D22.2 AST), then turn RIGHT on track 274° to DIDAL (R287.5° D64.2 AST). Cross ASDET at 6000 or above. Cross IBLAN at 10000FT (or above if instructed by ATC). Cross DIDAL at FL120-FL240
VAGEM 5E After take-off climb straight ahead to 1800 or above, at D5.0NM outbound DME AST turn LEFT on track 011° to ASDET (R017.7° D18.6 AST), turn LEFT on track 322° to VAGEM (R336.1° D63.9 AST). Cross ASDET at 6000 or above. Cross VAGEM at FL120-FL240
EDANO 5E After take-off climb straight ahead to 1800 or above, at D5.0NM outbound DME AST turn LEFT on track 011° to ASDET (R017.7° D18.6 AST), turn RIGHT on track 088° to EDANO (R070.7° D58.8 AST). Cross ASDET at 6000 or above. Cross EDANO at FL120-FL240
GURPI 4E After take-off climb straight ahead to 1800 or above, at D5.0NM outbound DME AST turn RIGHT on track 218° until intercept R178°AST, then proceed on track 178° to SUTUR (R177.7° D41.9 AST), after crossing SUTUR proceed on track 178° to GURPI (R177.7° D64.5 AST). Cross GURPI at FL120-FL240

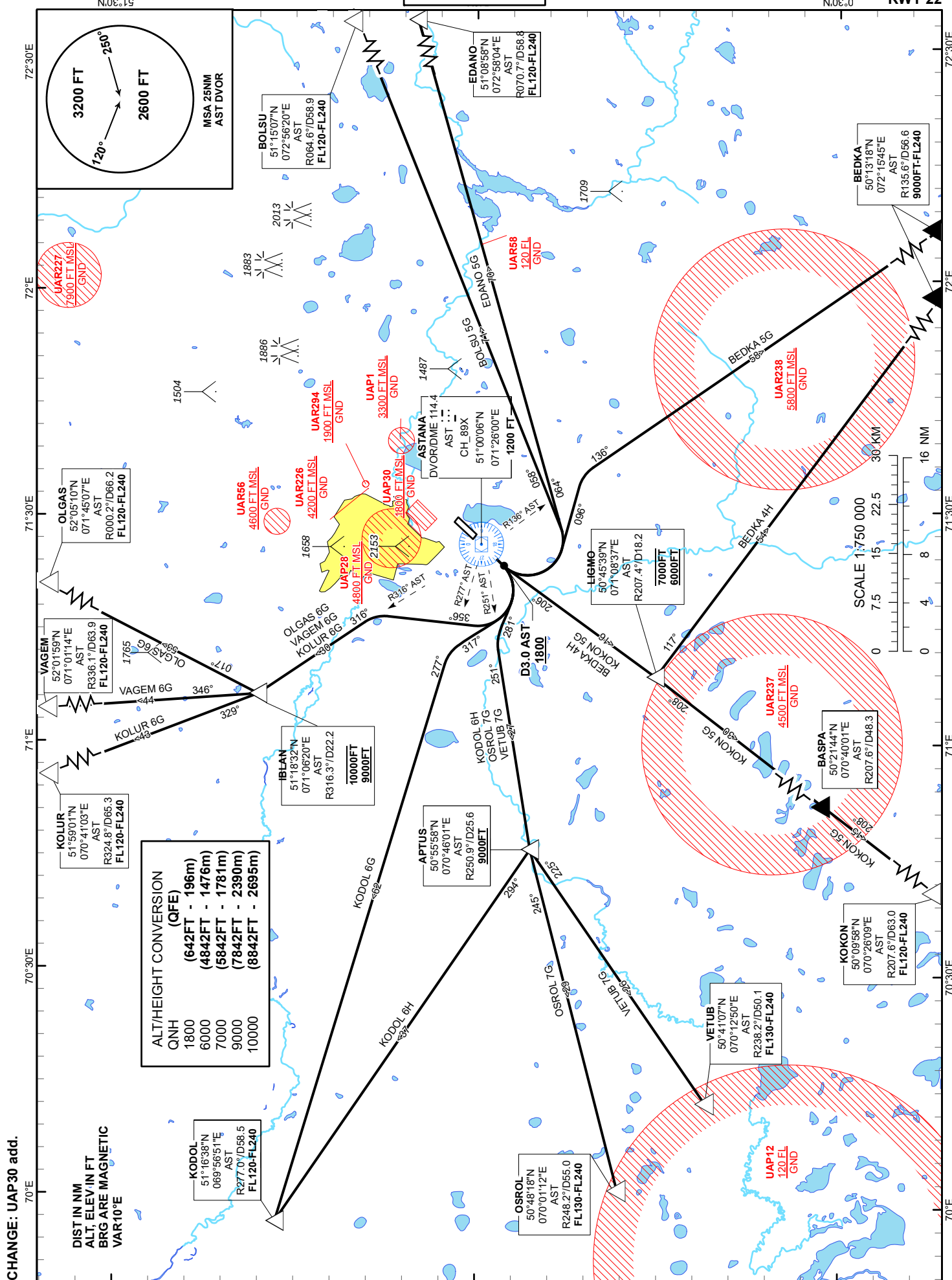
STANDARD DEPARTURE
CHART - INSTRUMENT
(SID) - ICAO

TRANSITION ALTITUDE
10000 FT

ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3

OLGAS 6G, BOLSU 5G, EDANO 5G,
BEDKA 5G, BEDKA 4H, KOKON 5G,
VETUB 7G, OSROL 7G, KODOL 6H,
KODOL 6G, KOLUR 6G, VAGEM 6G

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INTERNATIONAL AIRPORT
RWY 22



STANDARD DEPARTURE ROUTES - INSTRUMENT (SID) ASTANA RWY 22

VAGEM 6G

After take-off climb straight ahead to 1800 or above, at 3.0NM outbound DME AST turn RIGHT on track 356° until intercept R316° AST, then proceed on track 316° to IBLAN (R316.3° D22.2 AST), after crossing IBLAN turn right on track 346° to VAGEM (R336.1° D63.9 AST).

Cross IBLAN at 9000-10000. Cross VAGEM at FL120-FL240

EDANO 5G

After take-off climb straight ahead to 1800 or above, at 3.0NM outbound DME AST turn LEFT on track 064° to EDANO (R070.7° D58.8 AST).

Cross EDANO at FL120-FL240

BEDKA 5G

After take-off climb straight ahead to 1800 or above, at 3.0NM outbound DME AST turn LEFT on track 096° until intercept R136° AST, then proceed on track 136° to BEDKA (R135.6° D56.6 AST).

Cross BEDKA at 9000FT-FL240

BEDKA 4H

After take-off climb straight ahead to 1800 or above, at 3.0NM outbound DME AST turn LEFT on track 206° to LIGMO (R207.4° D18.2 AST), after crossing LIGMO turn left on track 117° to BEDKA (R135.6° D56.6 AST).

Cross LIGMO at 6000-7000. Cross BEDKA at 9000FT-FL240

OSROL 7G

After take-off climb straight ahead to 1800 or above, at 3.0NM outbound DME AST turn RIGHT on track 281° until intercept R251° AST, then proceed on track 251° to APTUS (R250.9° D25.6 AST), after crossing APTUS turn left on track 245° to OSROL (R248.2° D55.0 AST).

Cross APTUS at 9000 or above. Cross OSROL at FL130-FL240

VETUB 7G

After take-off climb straight ahead to 1800 or above, at 3.0NM outbound DME AST turn RIGHT on track 281° until intercept R251° AST, then proceed on track 251° to APTUS (R250.9° D25.6 AST), after crossing APTUS turn left on track 225° to VETUB (R238.2° D50.1 AST).

Cross APTUS at 9000 or above. Cross VETUB at FL130-FL240

KODOL 6G

After take-off climb straight ahead to 1800 or above, at 3.0NM outbound DME AST turn RIGHT on track 317° until intercept R277° AST, then proceed on track 277° to KODOL (R277.0° D58.5 AST).

Cross KODOL at FL120-FL240

KODOL 6H

After take-off climb straight ahead to 1800 or above, at 3.0NM outbound DME AST turn RIGHT on track 281° until intercept R251° AST, then proceed on track 251° to APTUS (R250.9° D25.6 AST), after crossing APTUS turn right on track 294° to KODOL (R277.0° D58.5 AST).

Cross APTUS at 9000 or above. Cross KODOL at FL120-FL240

KOKON 5G

After take-off climb straight ahead to 1800 or above, at 3.0NM outbound DME AST turn LEFT on track 206° to LIGMO (R207.4° D18.2 AST), then proceed on track 208° BASPA (R207.6° D48.3 AST), after crossing BASPA proceed on track 208° to KOKON (R207.6° D63.0 AST).

Cross LIGMO at 6000-7000. Cross KOKON at FL120-FL240

KOLUR 6G

After take-off climb straight ahead to 1800 or above, at 3.0NM outbound DME AST turn RIGHT on track 356° until intercept R316° AST, then proceed on track 316° to IBLAN (R316.3° D22.2 AST), after crossing IBLAN turn right on track 329° to KOLUR (R324.8° D65.3 AST).

Cross IBLAN at 9000-10000. Cross KOLUR at FL120-FL240

OLGAS 6G

After take-off climb straight ahead to 1800 or above, at 3.0NM outbound DME AST turn RIGHT on track 356° until intercept R316° AST, then proceed on track 316° to IBLAN (R316.3° D22.2 AST), after crossing IBLAN turn right on track 017° to OLGAS (R000.2° D66.2 AST).

Cross IBLAN at 9000-10000. Cross OLGAS at FL120-FL240

BOLSU 5G

After take-off climb straight ahead to 1800 or above, at 3.0NM outbound DME AST turn LEFT on track 058° to BOLSU (R064.6° D58.9 AST).

Cross BOLSU at FL120-FL240

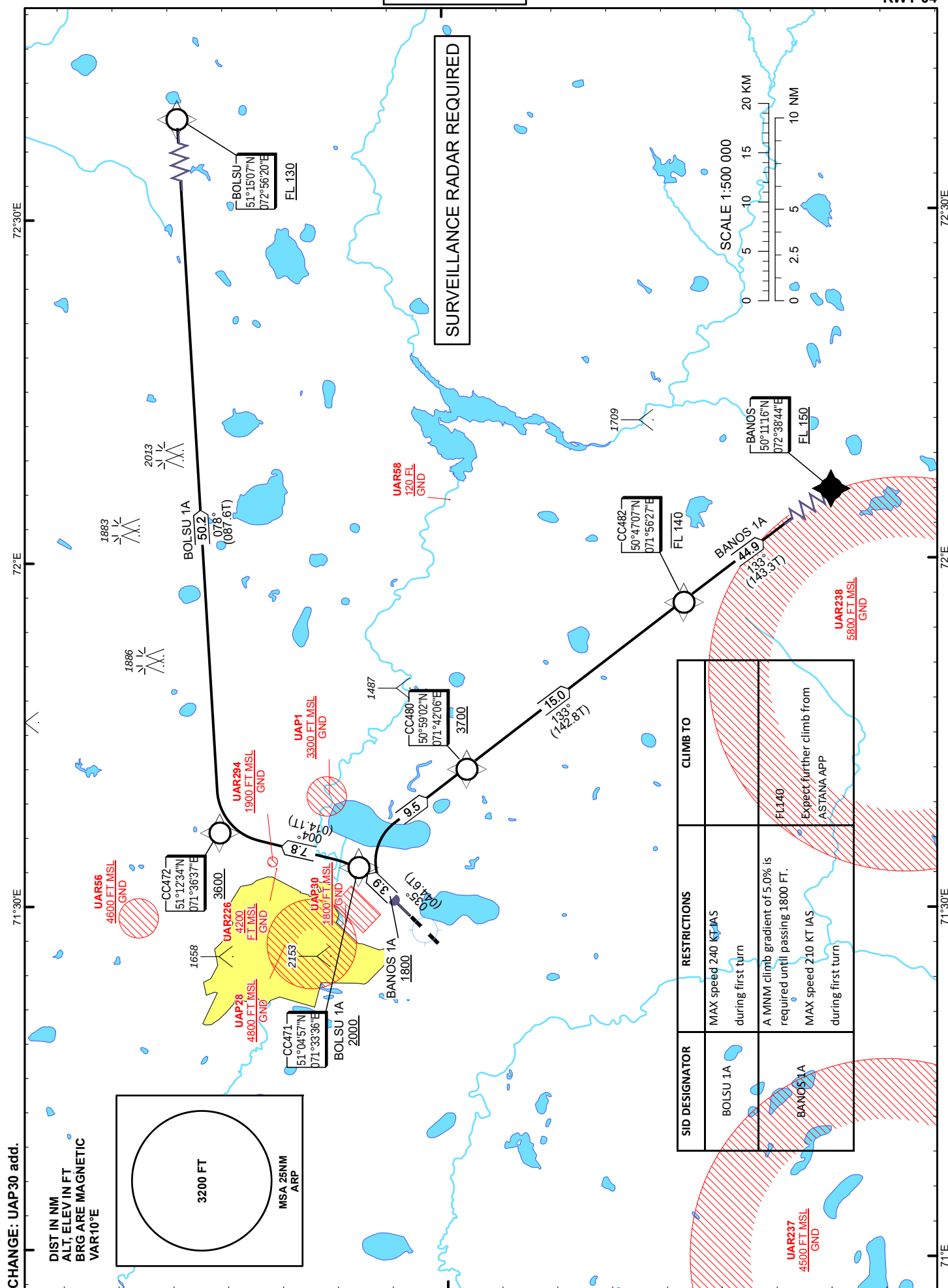
STANDARD DEPARTURE
CHART - INSTRUMENT
(SID) - ICAO

TRANSITION ALTITUDE
10000 FT

ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3

BANOS 1A, BOLSU 1A
(RNAV 1 SID BASED ON GNSS)

ASTANA
NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
RWY 04



**TABULAR
DESCRIPTION**

BANOS 1A RWY04											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	CA		-	35(44.6)	10	2.1	-	+1800	-210	2.9	RNAV1
20	DF	CC480	-		10	9.5	R	+3700		1.9	RNAV1
30	TF	CC482	-	133(142.8)	10	15	-	-FL140		1.9	RNAV1
40	TF	BANOS	-	133(143.3)	10	44.9	-	+FL150		1.9	RNAV1

WAYPOINT LIST

BANOS 1A		
Waypoint Identifier	Coordinates	
DER	510210.90N	0712915.64E
CC480	505902.26N	0714206.01E
CC482	504707.26N	0715627.27E
BANOS	501116.00N	0723844.00E

**TABULAR
DESCRIPTION**

BOLSU 1A RWY04											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	CF	CC471	-	35(44.6)	10	3.9	-	+2000	-240	1.9	RNAV1
20	TF	CC472	-	04(14.1)	10	7.8	L	+3600		1.9	RNAV1
30	TF	BOLSU	-	78(87.6)	10	50.2	R	+FL130		1.9	RNAV1

WAYPOINT LIST

BOLSU 1A		
Waypoint Identifier	Coordinates	
DER	510210.90N	0712915.64E
CC471	510457.35N	0713335.86E
CC472	511233.52N	0713637.17E
BOLSU	511507.00N	0725620.00E

STANDARD DEPARTURE
CHART - INSTRUMENT
(SID) - ICAO

TRANSITION ALTITUDE
10000 FT

ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3

DIDAL 1A, OLGAS 1A
(RNAV 1 SID BASED ON GNSS)

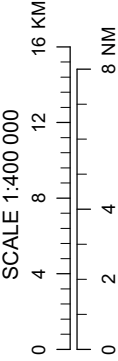
ASTANA
NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
RWY 04

CHANGE: UAP30 add, editorial.

DIST IN NM
ALT, ELEV IN FT
BRG ARE MAGNETIC
VAR10°E

SURVEILLANCE RADAR REQUIRED

SID DESIGNATOR	RESTRICTIONS	CLIMB TO
DIDAL 1A	A MINM climb gradient of 9.1% is required until passing FL170, due to separation from arrival traffic. If unable to comply, inform ATC. MAX speed 240 KT IAS during first turn	
OLGAS 1A	MAX speed 240 KT IAS during first turn	



**TABULAR
DESCRIPTION**

DIDAL 1A RWY04											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	CF	CC471	-	35(44.6)	10	3.9	-	+3300	-240	5.2	RNAV1
20	TF	CC472	-	4(14.1)	10	7.8	L	+7400		5.2	RNAV1
30	TF	CC474	-	275(284.9)	10	18	L	+FL170		5.2	RNAV1
40	TF	CC476	-	275(284.5)	10	18	-	+FL200		1.9	RNAV1
50	TF	DIDAL	-	274(283.9)	10	29.9	-	+FL260		1.9	RNAV1

WAYPOINT LIST

DIDAL 1A		
Waypoint Identifier	Coordinates	
DER	510210.90N	0712915.64E
CC471	510457.35N	0713335.86E
CC472	511233.52N	0713637.17E
CC474	511713.85N	0710857.33E
CC476	512147.69N	0704111.75E
DIDAL	512908.00N	0695453.00E

**TABULAR
DESCRIPTION**

OLGAS 1A RWY04											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	CF	CC471	-	35(44.6)	10	3.9	-	+2000	-240	1.9	RNAV1
20	TF	CC472	-	4(14.1)	10	7.8	L	+3600		1.9	RNAV1
30	TF	OLGAS	-	356(5.8)	10	52.9	L	+FL140		1.9	RNAV1

WAYPOINT LIST

OLGAS 1A		
Waypoint Identifier	Coordinates	
DER	510210.90N	0712915.64E
CC471	510457.35N	0713335.86E
CC472	511233.52N	0713637.17E
OLGAS	520510.00N	0714507.00E

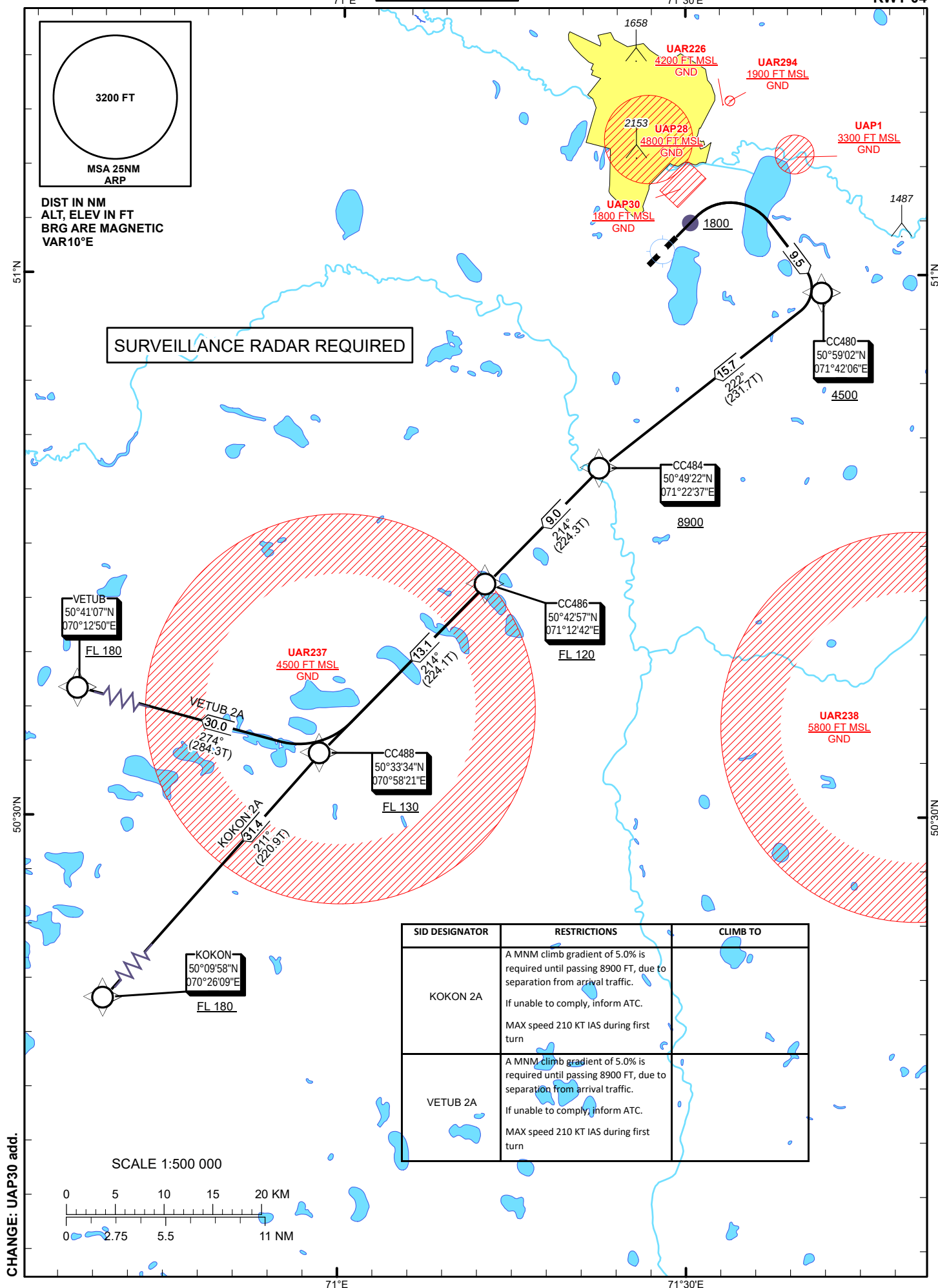
STANDARD DEPARTURE
CHART - INSTRUMENT
(SID) - ICAO

TRANSITION ALTITUDE
10000 ft

ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3

KOKON 2A, VETUB 2A
(RNAV 1 SID BASED ON GNSS)

ASTANA
NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
RWY 04



TABULAR DESCRIPTION

KOKON 2A RWY04											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	CA	-	-	035(044.6)	10	2.1	-	+1800	-210	2.9	RNAV1
20	DF	CC480	-		10	9.5	R	+4500		2.9	RNAV1
30	TF	CC484	-	222(231.7)	10	15.7	R	+8900		2.9	RNAV1
40	TF	CC486	-	214(224.3)	10	9	L	+FL120	-250	2.2	RNAV1
50	TF	CC488	-	214(224.1)	10	13.1	-	+FL130		1.9	RNAV1
60	TF	KOKON	-	211(220.9)	10	31.4	-	+FL180		1.9	RNAV1

WAYPOINT LIST

KOKON 2A		
Waypoint Identifier	Coordinates	
DER	510210.90N	0712915.64E
CC480	505902.26N	0714206.01E
CC484	504922.01N	0712237.39E
CC486	504256.68N	0711242.08E
CC488	503334.05N	0705821.32E
KOKON	500958.00N	0702609.00E

TABULAR DESCRIPTION

VETUB 2A RWY04											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	CA	COORD	-	035(044.6)	10	2.1	-	+1800	-210	2.9	RNAV1
20	DF	CC480	-		10	9.5	R	+4500		2.9	RNAV1
30	TF	CC484	-	222(231.7)	10	15.7	-	+8900		2.9	RNAV1
40	TF	CC486	-	214(224.3)	10	9	L	+FL120	-250	2.2	RNAV1
50	TF	CC488	-	214(224.1)	10	13.1	-	+FL130		1.9	RNAV1
60	TF	VETUB	-	274(284.3)	10	30	R	+FL180		1.9	RNAV1

WAYPOINT LIST

VETUB 2A		
Waypoint Identifier	Coordinates	
DER	510210.90N	0712915.64E
CC480	505902.26N	0714206.01E
CC484	504922.01N	0712237.39E
CC486	504256.68N	0711242.08E
CC488	503334.05N	0705821.32E
VETUB	504107.00N	0701250.00E

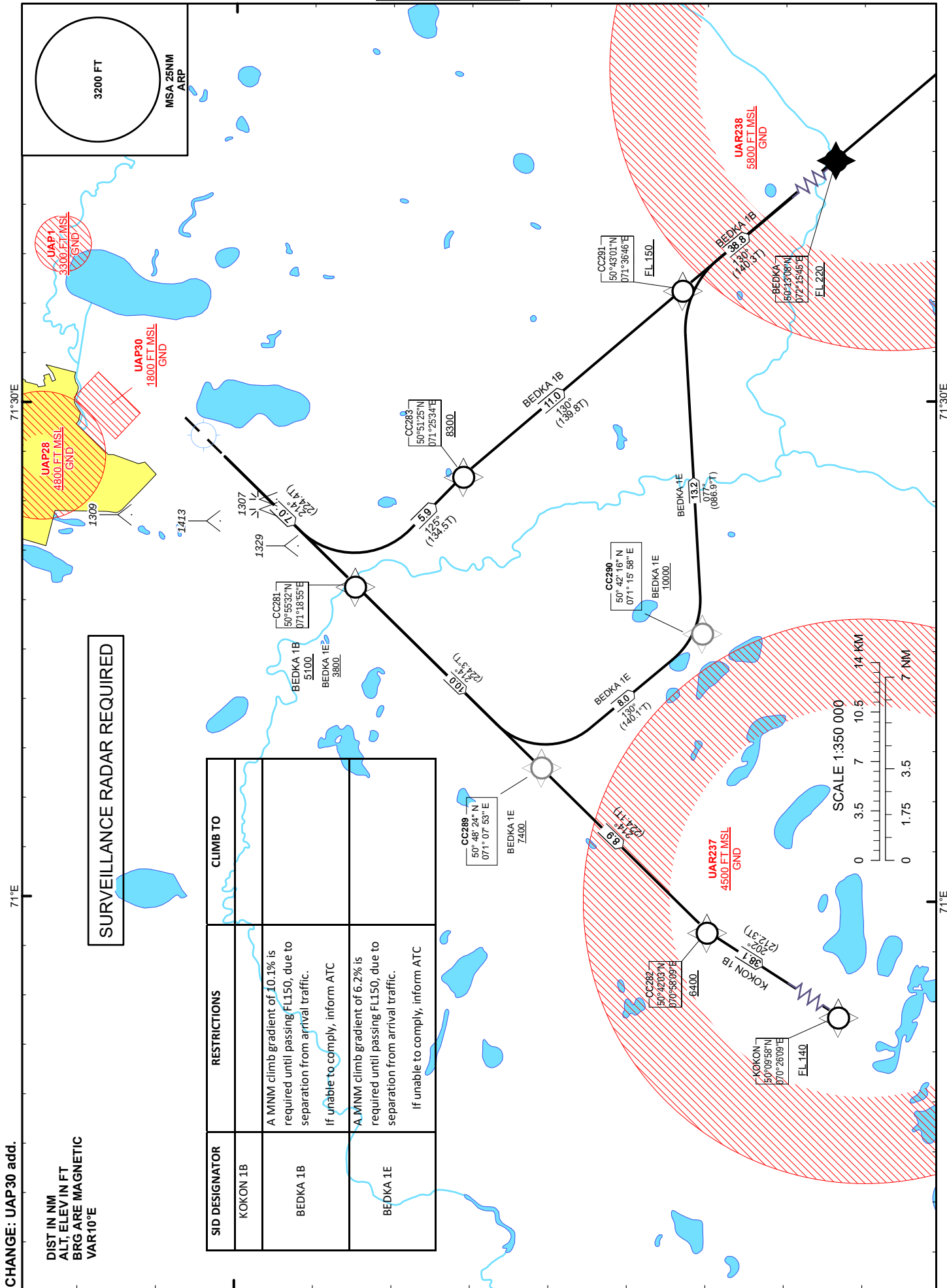
STANDARD DEPARTURE
CHART - INSTRUMENT
(SID) - ICAO

TRANSITION ALTITUDE
10000 FT

ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3

BEDKA 1B, BEDKA 1E,
KOKON 1B
(RNAV 1 SID BASED ON GNSS)

ASTANA
NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
RWY 22



TABULAR DESCRIPTION

BEDKA 1B RWY22

Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	CF	CC281	-	214(224.4)	10	7	-	+5100	-250	6.6	RNAV1
20	TF	CC283	-	125(134.5)	10	5.9	L	+8300		6.6	RNAV1
30	TF	CC291	-	130(139.8)	10	11	R	+FL150		6.6	RNAV1
40	TF	BEDKA	-	130(140.3)	10	38.8	-	+FL220		1.9	RNAV1

WAYPOINT LIST

BEDKA 1B

Waypoint Identifier	Coordinates	
DER	510031.69N	0712641.10E
CC281	505532.44N	0711855.42E
CC283	505124.63N	0712534.27E
CC291	504301.41N	0713646.15E
BEDKA	501318.00N	0721545.00E

WAYPOINT LIST

BEDKA 1E

Waypoint Identifier	Coordinates	
DER	510031.69N	0712641.10E
CC281	505532.44N	0711855.42E
CC289	504824.01N	0710753.04E
CC290	504216.41N	0711558.43E
CC291	504301.41N	0713646.15E
BEDKA	501318.00N	0721545.00E

TABULAR DESCRIPTION

BEDKA 1E RWY22

Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	CF	CC281	-	214(224.4)	10	7	-	+3800	-250	3.5	RNAV1
20	TF	CC289	-	214(224.3)	10	10	-	+7400		3.5	RNAV1
30	TF	CC290	-	130(140.1)	10	8	L	+10000		3.5	RNAV1
40	TF	CC291	-	77(86.9)	10	13.2	L	+FL150		3.5	RNAV1
50	TF	BEDKA	-	130(140.3)	10	38.8	R	+FL220		1.9	RNAV1

TABULAR DESCRIPTION

KOKON 1B RWY22

Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	CF	CC281	-	214(224.4)	10	7	-	+2600	-250	1.9	RNAV1
20	TF	CC289	-	214(224.3)	10	10	-	+4600		1.9	RNAV1
30	TF	CC282	-	214(224.1)	10	8.9	-	+6400		1.9	RNAV1
40	TF	KOKON	-	202(212.3)	10	38.1	L	+FL140		1.9	RNAV1

WAYPOINT LIST

KOKON 1B

Waypoint Identifier	Coordinates	
DER	510031.69N	0712641.10E
CC282	504202.54N	0705809.22E
KOKON	500958.00N	0702609.00E

STANDARD DEPARTURE
CHART - INSTRUMENT
(SID) - ICAO

TRANSITION ALTITUDE
10000 FT

ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3

BOLSU 2B, OLGAS 2B
(RNAV 1 SID BASED ON GNSS)

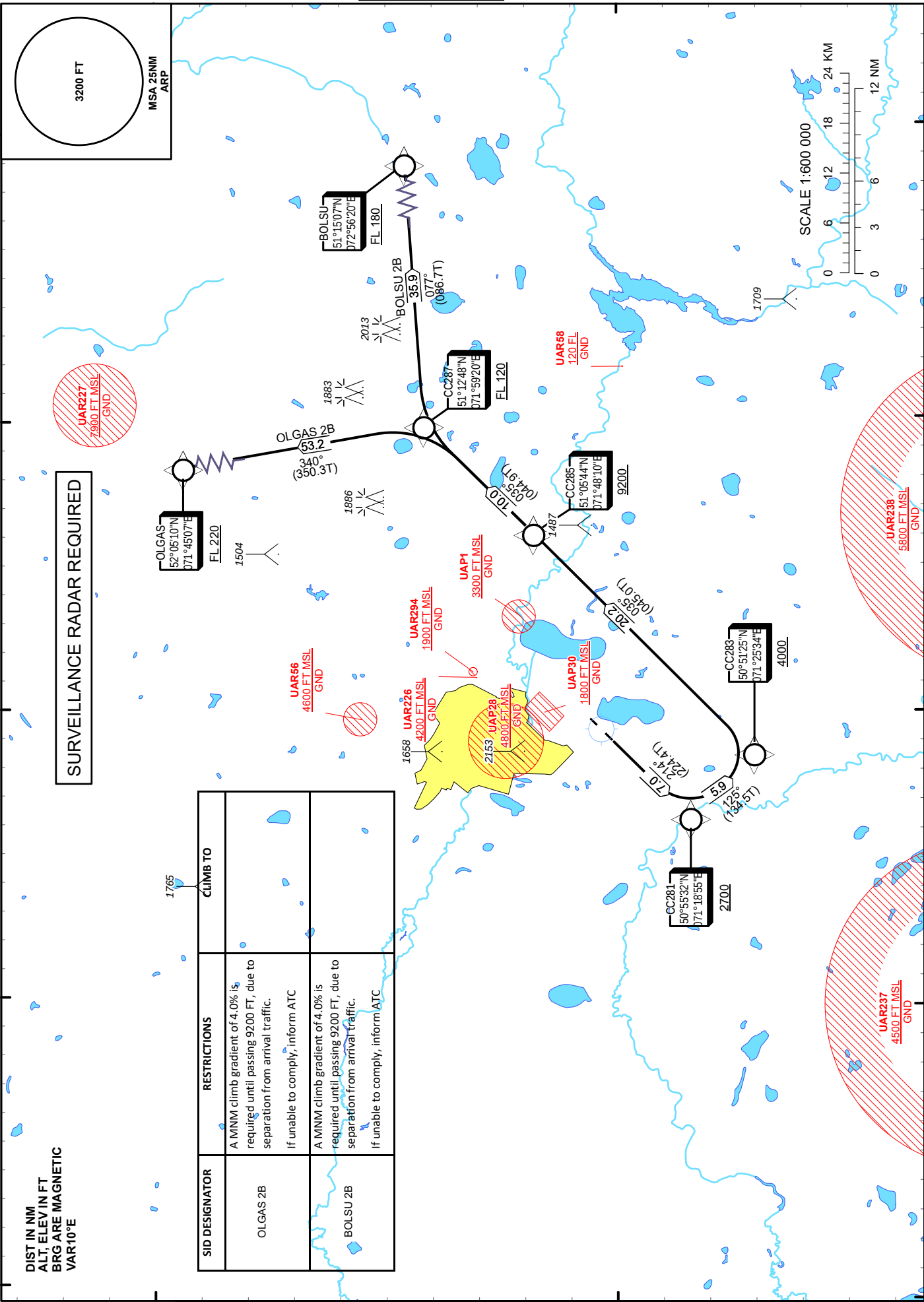
ASTANA
NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
RWY 22

CHANGE: UAP30 add.

DIST IN NM
ALT, ELEV IN FT
BRG ARE MAGNETIC
VAR10°E

SURVEILLANCE RADAR REQUIRED

SID DESIGNATOR	RESTRICTIONS	CLIMB TO
OLGAS 2B	A MNM climb gradient of 4.0% is required until passing 9200 FT, due to separation from arrival traffic. If unable to comply, inform ATC	
BOLSU 2B	A MNM climb gradient of 4.0% is required until passing 9200 FT, due to separation from arrival traffic. If unable to comply, inform ATC	



TABULAR DESCRIPTION

BOLSU 2B RWY22											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	CF	CC281	-	214(224.4)	10	7	-	+2700		2.5	RNAV1
20	TF	CC283	-	125(134.5)	10	5.9	L	+4000		2.5	RNAV1
30	TF	CC285	-	035(045)	10	20.2	L	+9200	-250	2.5	RNAV1
40	TF	CC287	-	035(044.9)	10	10	-	+FL120		2.6	RNAV1
50	TF	BOLSU	-	077(086.7)	10	35.9	R	+FL180		1.9	RNAV1

WAYPOINT LIST

BOLSU 2B		
Waypoint Identifier	Coordinates	
DER	510031.69N	0712641.10E
CC281	505532.44N	0711855.42E
CC283	505124.63N	0712534.27E
CC285	510543.68N	0714809.57E
CC287	511248.18N	0715919.74E
BOLSU	511507.00N	0725620.00E

TABULAR DESCRIPTION

OLGAS 2B RWY22											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	CF	CC281	-	214(224.4)	10	7	-	+2700		2.5	RNAV1
20	TF	CC283	-	125(134.5)	10	5.9	L	+4000		2.5	RNAV1
30	TF	CC285	-	035(045)	10	20.2	L	+9200	-250	2.5	RNAV1
40	TF	CC287	-	035(044.9)	10	10	-	+FL120		2.6	RNAV1
50	TF	OLGAS	-	340(350.3)	10	53.2	L	+FL220		1.9	RNAV1

WAYPOINT LIST

OLGAS 2B		
Waypoint Identifier	Coordinates	
DER	510031.69N	0712641.10E
CC281	505532.44N	0711855.42E
CC283	505124.63N	0712534.27E
CC285	510543.68N	0714809.57E
CC287	511248.18N	0715919.74E
OLGAS	520510.00N	0714507.00E

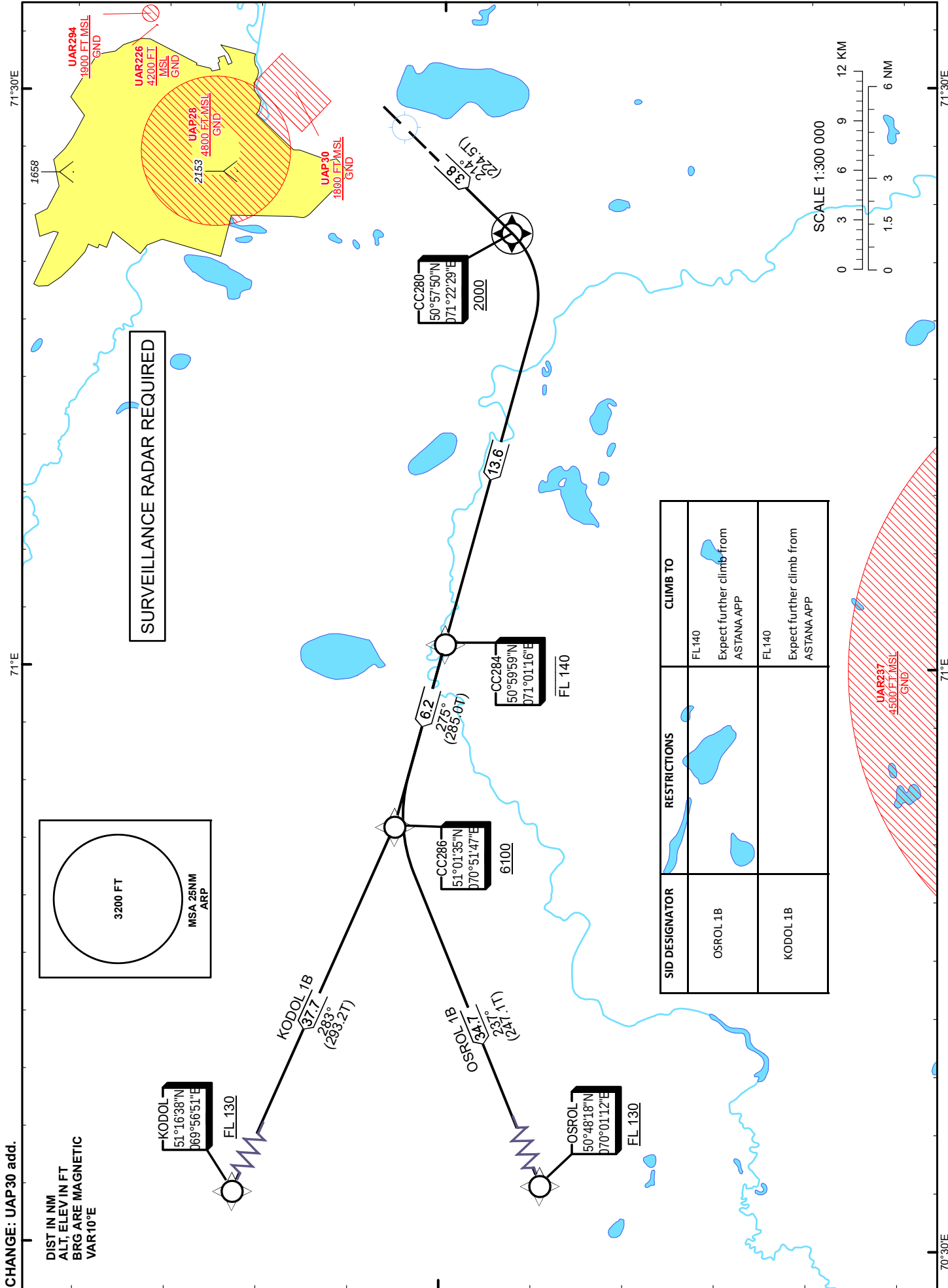
STANDARD DEPARTURE
CHART - INSTRUMENT
(SID) - ICAO

TRANSITION ALTITUDE
10000 FT

ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3

KODOL 1B, OSROL 1B
(RNAV 1 SID BASED ON GNSS)

ASTANA
NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
RWY 22



TABULAR DESCRIPTION

KODOL 1B RWY22											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	CF	CC280	Y	214(224.5)	10	3.8	-	+2000	-250	1.9	RNAV1
20	DF	CC284	-		10	13.6	R	-FL140		1.9	RNAV1
30	TF	CC286	-	275(285)	10	6.2	-	+6100		1.9	RNAV1
40	TF	KODOL	-	283(293.2)	10	37.7	R	+FL130		1.9	RNAV1

WAYPOINT LIST

KODOL 1B		
Waypoint Identifier	Coordinates	
DER	510031.69N	0712641.10E
CC280	505750.12N	0712229.36E
CC284	505958.63N	0710115.98E
CC286	510135.47N	0705147.21E
KODOL	511638.00N	0695651.00E

TABULAR DESCRIPTION

OSROL 1B RWY22											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	CF	CC280	Y	214(224.5)	10	3.8	-	+2000	-250	1.9	RNAV1
20	DF	CC284	-		10	13.6	R	-FL140		1.9	RNAV1
30	TF	CC286	-	275(285)	10	6.2	-	+6100		1.9	RNAV1
40	TF	OSROL	-	237(247.1)	10	34.7	L	+FL130		1.9	RNAV1

WAYPOINT LIST

OSROL 1B		
Waypoint Identifier	Coordinates	
DER	510031.69N	0712641.10E
CC280	505750.12N	0712229.36E
CC284	505958.63N	0710115.98E
CC286	510135.47N	0705147.21E
OSROL	504818.00N	0700112.00E

**ASTANA
NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT**

50.30'N



STANDARD ARRIVAL ROUTES - INSTRUMENT (STAR) ASTANA RWY 04

VAGEM 4S

After crossing VAGEM (R336.1° D63.9 AST), proceed on track 166° to IBLAN (R316.3° D22.2 AST), then turn LEFT on track 136° proceed to DVOR/DME AST.
Cross VAGEM at FL120-FL240.
Cross IBLAN at 8000.
Cross DVOR/DME AST at 6000.

EDANO 4S

After crossing EDANO (R070.7° D58.8 AST) proceed on track 252° to DVOR/DME AST.
Cross EDANO at FL120-FL240.
Cross DVOR/DME AST at 6000.

BEDKA 3S

After crossing BEDKA (R135.6° D56.6 AST), proceed on track 316° to DVOR/DME AST.
Cross BEDKA at 9000FT-FL240.
Cross DVOR/DME AST at 6000.

BEDKA 4T

After crossing BEDKA (R135.6° D56.6 AST) proceed on track 298° to LIGMO (R207.4° D18.2 AST), after crossing LIGMO (R207.4° D18.2 AST) turn RIGHT proceed on track 027° to DVOR/DME AST.
Cross BEDKA at 9000FT-FL240.
Cross LIGMO at 8000.
Cross DVOR/DME AST at 6000.

KOKON 4S

After crossing KOKON (R207.6° D63.0 AST), proceed on track 027° to BASPA (R207.6° D48.3 AST),
After crossing BASPA proceed on track 027° to LIGMO (R207.4° D18.2 AST),
After crossing LIGMO proceed on track 027° to DVOR/DME AST.
Cross KOKON at FL120-FL240.
Cross LIGMO at 8000.
Cross DVOR/DME AST at 6000.

VETUB 5S

After crossing VETUB (R238.2° D50.1 AST), proceed on track 057° to DVOR/DME AST.
Cross VETUB at FL130-FL240.
Cross DVOR/DME AST at 6000.

KODOL 4S

After crossing KODOL (R277.0° D58.5 AST), proceed on track 096° to DVOR/DME AST.
Cross KODOL at FL120-FL240.
Cross DVOR/DME AST 6000.

KODOL 4T

After crossing KODOL (R277.0° D58.5 AST), proceed on track 113° to APTUS (R250.9° D25.6 AST),
After crossing APTUS, turn LEFT on track 070° proceed to DVOR/DME AST.
Cross KODOL at FL120-FL240.
Cross APTUS at 8000.
Cross DVOR/DME AST at 6000.

KOLUR 4S

After crossing KOLUR (R324.8° D65.3 AST), proceed on track 149° to IBLAN (R316.3° D22.2 AST), After crossing IBLAN, turn LEFT on track 136° proceed to DVOR/DME AST.
Cross KOLUR at FL120-FL240.
Cross IBLAN at 8000.
Cross DVOR/DME AST at 6000.

**ASTANA
NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT**



STANDARD ARRIVAL ROUTES - INSTRUMENT (STAR) ASTANA RWY 22

OLGAS 4N

After crossing OLGAS (R000.2° D66.2 AST), proceed on track 174° to ASDET (R017.7° D18.6 AST). After crossing ASDET, turn RIGHT on track 198° to DVOR/DME AST, then according to instrument chart.
Cross OLGAS at FL120-FL240.
Cross ASDET at 7000 or above.
Cross DVOR/DME AST at 6000.

VAGEM 4N

After crossing VAGEM (R336.1° D63.9 AST), proceed on track 142° to ASDET (R017.7° D18.6 AST). After crossing ASDET, turn RIGHT on track 198° to DVOR/DME AST, then according to instrument chart.
Cross VAGEM at FL120-FL240.
Cross ASDET at 7000 or above.
Cross DVOR/DME AST at 6000.

BOLSU 4N

After crossing BOLSU (R064.6° D58.9 AST), proceed on track 246° to DVOR/DME AST, then according to instrument chart.
Cross BOLSU at FL120-FL240.
Cross DVOR/DME AST at 6000.

BANOS 3N

After crossing BANOS (R126.1° D67.4 AST), proceed on track 307° to DVOR/DME AST, then according to instrument chart.
Cross BANOS at 9000FT-FL240.
Cross DVOR/DME AST at 6000.

KOKON 4N

After crossing KOKON (R207.6° D63.0 AST), proceed on track 027° to BASPA (R207.6° D48.3 AST). After crossing BASPA, proceed on track 027° to LIGMO (R207.4° D18.2 AST). After crossing LIGMO, proceed on track 027° to DVOR/DME AST, then according to instrument chart.
Cross KOKON at FL120-FL240.
Cross LIGMO at 9000 or above.
Cross DVOR/DME AST at 6000.

VETUB 5N

After crossing VETUB (R238.2° D50.1 AST), proceed on track 057° to DVOR/DME AST, then according to instrument chart.
Cross VETUB at FL130-FL240.
Cross DVOR/DME AST at 6000.

DIDAL 4N

After crossing DIDAL (R287.5° D64.2 AST), proceed on track 106° to DVOR/DME AST, then according to instrument chart.
Cross DIDAL at FL120-FL240.
Cross DVOR/DME AST at 6000.

EDANO 4N

After crossing EDANO (R070.7° D58.8 AST), proceed on track 252° to DVOR/DME AST, then according to instrument chart.
Cross EDANO at FL120-FL240.
Cross DVOR/DME AST at 6000.

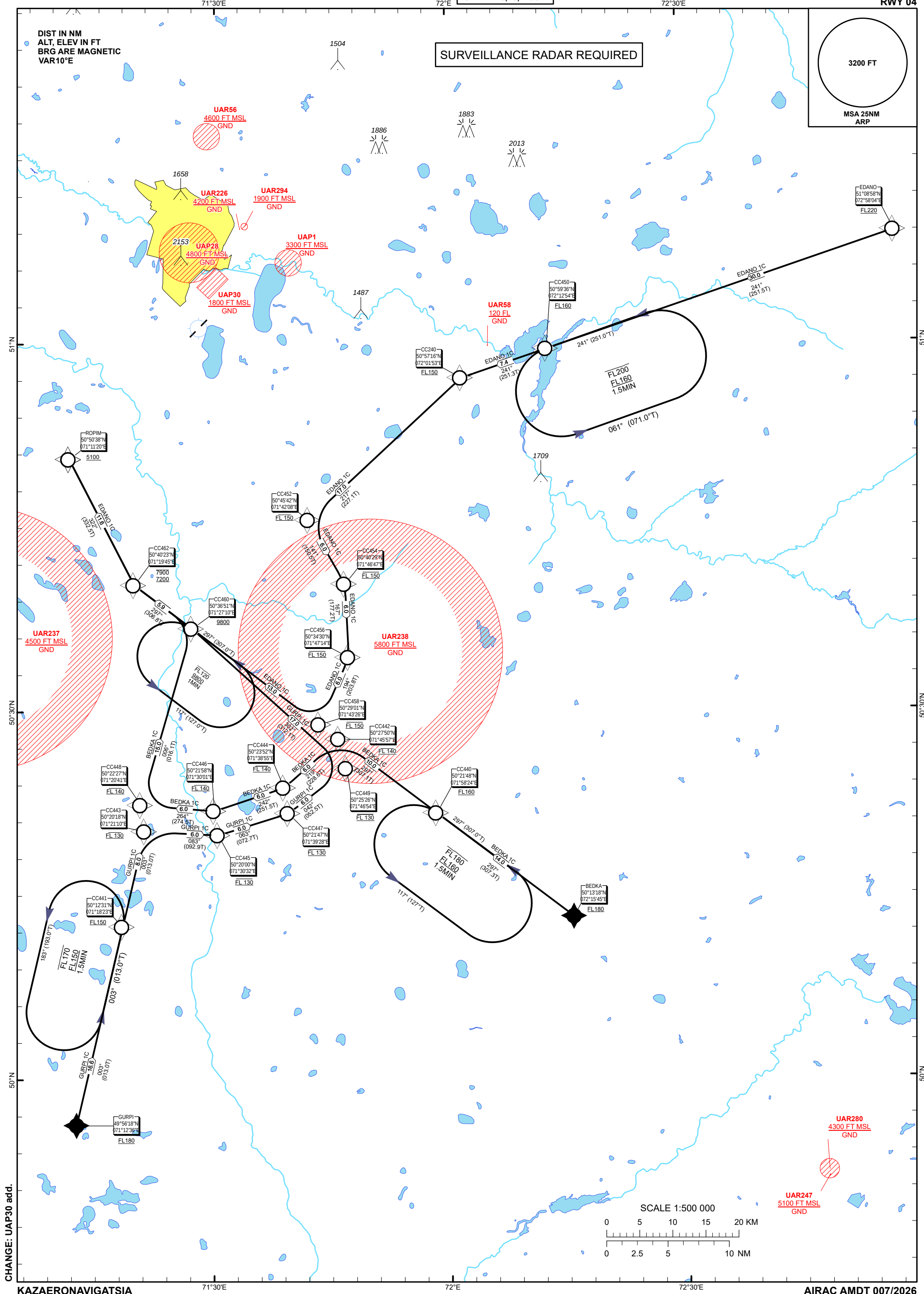
STANDARD ARRIVAL
CHART - INSTRUMENT
(STAR) - ICAO

TRANSITION ALT
10000 FT

ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3

(RNAV 1 STAR BASED ON GNSS)
BEDKA 1C, EDANO 1C, GURPI 1C

ASTANA
NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
RWY 04



CHANGE: UAP30 add.

TABULAR DESCRIPTION

BEDKA 1C											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	IF	BEDKA	-		10	0	-	+FL180	-315	-	RNAV1
20	TF	CC440	-	297(307.3)	10	14	-	+FL160	-280	-	RNAV1
30	TF	CC442	-	297(307.1)	10	10	-	@FL140	-280	-	RNAV1
40	TF	CC444	-	219(228.6)	10	6	L	@FL140	-280	-	RNAV1
50	TF	CC446	-	242(251.5)	10	6	R	@FL140	-280	-	RNAV1
60	TF	CC448	-	264(274.5)	10	6	R	@FL140	-280	-	RNAV1
70	TF	CC460	-	6(16.1)	10	15	R	+9800	-250	-	RNAV1
80	TF	CC462	-	297(306.8)	10	5.9	L	+7200 -7900	-250	-	RNAV1
90	TF	ROPIM	-	322(332.5)	10	11.6	R	+5100	-230	-	RNAV1

WAYPOINT LIST

BEDKA 1C		
Waypoint Identifier	Coordinates	
BEDKA	501318.00N	0721545.00E
CC440	502147.51N	0715824.23E
CC442	502749.84N	0714557.03E
CC444	502352.05N	0713854.67E
CC446	502158.41N	0713001.07E
CC448	502226.84N	0712040.54E
CC460	503650.82N	0712710.28E
CC462	504022.77N	0711945.13E
ROPIM	505037.85N	0711120.41E

TABULAR DESCRIPTION

EDANO 1C											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	IF	EDANO	-		10	0	-	+FL220	-315	-	RNAV1
20	TF	CC450	-	241(251.5)	10	30	-	+FL160	-280	-	RNAV1
30	TF	CC240	-	241(251.3)	10	7.4	-	+FL150	-280	-	RNAV1
40	TF	CC452	-	217(227.1)	10	17	L	@FL150	-280	-	RNAV1
50	TF	CC454	-	141(150.5)	10	6	L	@FL150	-280	-	RNAV1
60	TF	CC456	-	167(177.2)	10	6	R	@FL150	-280	-	RNAV1
70	TF	CC458	-	194(203.8)	10	6	R	@FL150	-280	-	RNAV1
80	TF	CC460	-	297(307)	10	13	R	+9800	-250	-	RNAV1
90	TF	CC462	-	297(306.8)	10	5.9	L	+7200 -7900	-250	-	RNAV1
100	TF	ROPIM	-	322(332.5)	10	11.6	R	+5100	-230	-	RNAV1

WAYPOINT LIST

EDANO 1C		
Waypoint Identifier	Coordinates	
EDANO	510858.00N	0725804.00E
CC450	505936.08N	0721254.38E
CC240	505715.58N	0720152.69E
CC452	504542.01N	0714207.56E
CC454	504029.06N	0714646.59E
CC456	503429.88N	0714714.16E
CC458	502901.03N	0714325.88E
CC460	503650.82N	0712710.28E
CC462	504022.77N	0711945.13E
ROPIM	505037.85N	0711120.41E

TABULAR DESCRIPTION

GURPI 1C											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	IF	GURPI	-		10	0	-	+FL180	-315	-	RNAV1
20	TF	CC441	-	3(13)	10	16.6	-	+FL150	-280	-	RNAV1
30	TF	CC443	-	3(13)	10	8	-	@FL130	-280	-	RNAV1
40	TF	CC445	-	83(92.9)	10	6	R	@FL130	-280	-	RNAV1
50	TF	CC447	-	63(72.7)	10	6	L	@FL130	-280	-	RNAV1
60	TF	CC449	-	42(52.5)	10	6	L	@FL130	-280	-	RNAV1
70	TF	CC460	-	302(312.1)	10	17	L	+9800	-250	-	RNAV1
80	TF	CC462	-	297(306.8)	10	5.9	L	+7200-7900	-250	-	RNAV1
90	TF	ROPIM	-	322(332.5)	10	11.6	R	+5100	-230	-	RNAV1

WAYPOINT LIST

GURPI 1C		
Waypoint Identifier	Coordinates	
GURPI	495618.00N	0711236.00E
CC441	501230.84N	0711822.55E
CC443	502018.11N	0712110.45E
CC445	502000.04N	0713031.62E
CC447	502147.16N	0713928.13E
CC449	502526.34N	0714654.12E
CC460	503650.82N	0712710.28E
CC462	504022.77N	0711945.13E
ROPIM	505037.85N	0711120.41E

CHANGE: Editorial.

TRANSITION ALT
10000 FT

ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3

(RNAV 1 STAR BASED ON GNSS)
KODOL 1C, OSROL 1C, VAGEM 1C

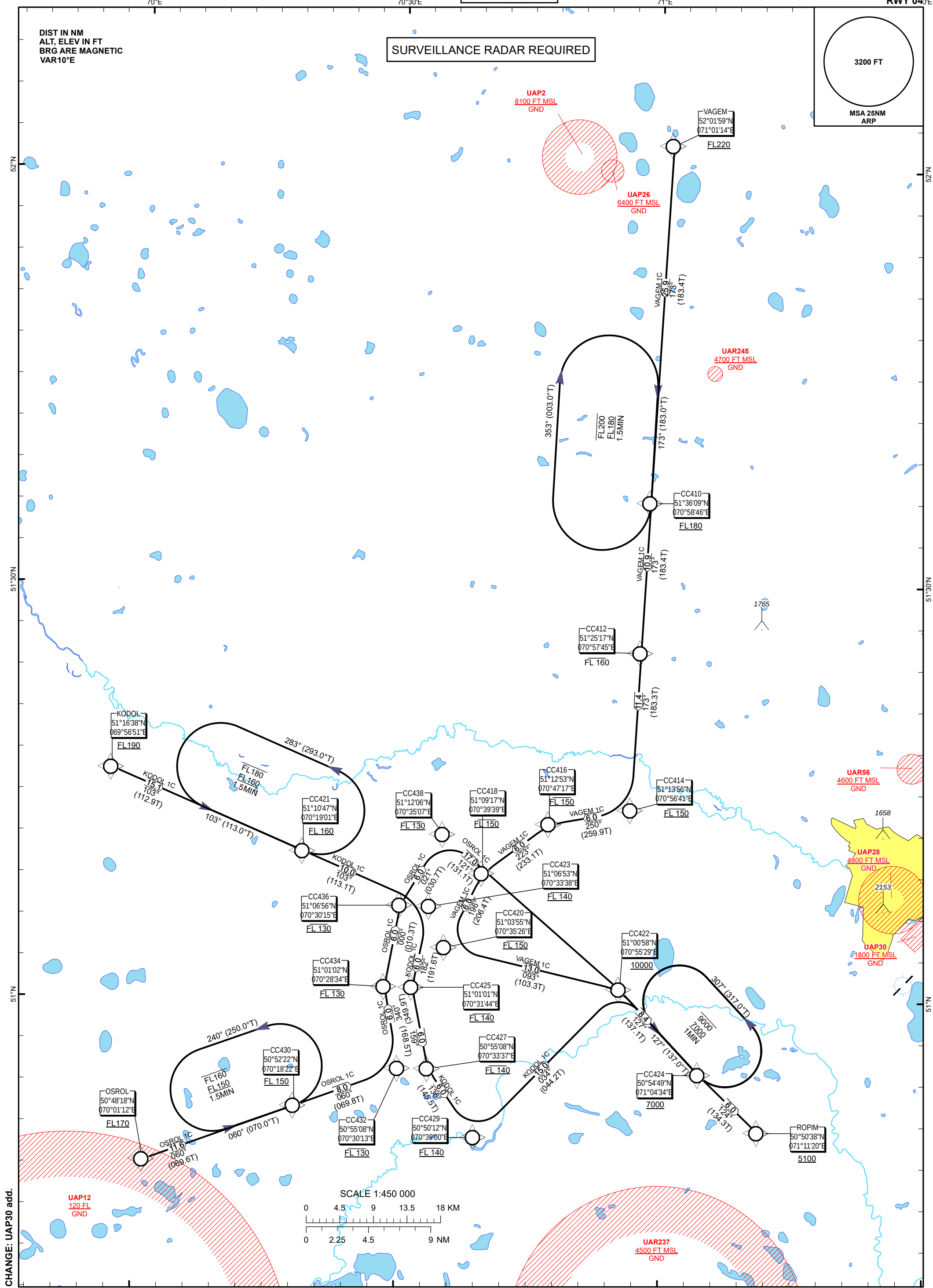
**ASTANA
NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
RWY 04⁰¹E**



DIST IN NM
ALT, ELEV IN FT
BRG ARE MAGNETIC
VAR10°E

3200 FT

MSA 25NM
APP



CHANGE: UAP30 add.

KAZAERONAVIGATSIA

AIRAC AMDT 007/2026

TABULAR DESCRIPTION

KODOL 1C RWY04											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	IF	KODOL	-		10	0	-	+FL190	-315	-	RNAV1
20	TF	CC421	-	103(112.9)	10	15.1	-	+FL160	-280	-	RNAV1
30	TF	CC423	-	103(113.1)	10	10	-	@FL140	-280	-	RNAV1
40	TF	CC425	-	182(191.6)	10	6	R	@FL140	-280	-	RNAV1
50	TF	CC427	-	159(168.5)	10	6	L	@FL140	-280	-	RNAV1
60	TF	CC429	-	136(145.5)	10	6	L	@FL140	-280	-	RNAV1
70	TF	CC422	-	34(44.2)	10	15	L	+10000	-250	-	RNAV1
80	TF	CC424	-	127(137.1)	10	8.4	R	+7000	-250	-	RNAV1
90	TF	ROPIM	-	124(134.3)	10	6	L	+5100	-230	-	RNAV1

WAYPOINT LIST

KODOL 1C		
Waypoint Identifier	Coordinates	
KODOL	511638.00N	0695651.00E
CC421	511047.16N	0701901.37E
CC423	510652.79N	0703338.28E
CC425	510100.51N	0703143.85E
CC427	505508.15N	0703337.44E
CC429	505011.92N	0703859.64E
CC422	510057.81N	0705529.01E
CC424	505448.62N	0710433.59E
ROPIM	505037.85N	0711120.41E

TABULAR DESCRIPTION

OSROL 1C RWY04											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	IF	OSROL	-		10	0	-	+FL170	-315	-	RNAV1
20	TF	CC430	-	60(69.6)	10	11.6	-	+FL150	-280	-2.3	RNAV1
30	TF	CC432	-	60(69.8)	10	8	-	@FL130	-280	-2.3	RNAV1
40	TF	CC434	-	340(349.9)	10	6	L	@FL130	-280	-	RNAV1
50	TF	CC436	-	0(10.3)	10	6	R	@FL130	-280	-	RNAV1
60	TF	CC438	-	21(30.7)	10	6	R	@FL130	-280	-	RNAV1
70	TF	CC422	-	121(131.1)	10	17	R	+10000	-250	-1.5	RNAV1
80	TF	CC424	-	127(137.1)	10	8.4	R	+7000	-250	-2.2	RNAV1
90	TF	ROPIM	-	124(134.3)	10	6	L	+5100	-230	-1.5	RNAV1

WAYPOINT LIST

OSROL 1C		
Waypoint Identifier	Coordinates	
OSROL	504818.00N	0700112.00E
CC430	505221.86N	0701822.45E
CC432	505508.25N	0703013.46E
CC434	510102.29N	0702833.83E
CC436	510656.13N	0703015.40E
CC438	511205.55N	0703506.68E
CC422	510057.81N	0705529.01E
CC424	505448.62N	0710433.59E
ROPIM	505037.85N	0711120.41E

TABULAR DESCRIPTION

VAGEM 1C RWY04											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	IF	VAGEM	-		10	0	-	+FL220	-315	-	RNAV1
20	TF	CC410	-	173(183.4)	10	25.9	-	+FL180	-280	-	RNAV1
30	TF	CC412	-	173(183.4)	10	10.9	-	-FL160	-280	-	RNAV1
40	TF	CC414	-	173(183.3)	10	11.4	-	@FL150	-280	-	RNAV1
50	TF	CC416	-	250(259.9)	10	6	R	@FL150	-280	-	RNAV1
60	TF	CC418	-	223(233.1)	10	6	L	@FL150	-280	-	RNAV1
70	TF	CC420	-	196(206.4)	10	6	L	@FL150	-280	-	RNAV1
80	TF	CC422	-	93(103.3)	10	13	L	+10000	-250	-	RNAV1
90	TF	CC424	-	127(137.1)	10	8.4	R	+7000	-250	-	RNAV1
100	TF	ROPIM	-	124(134.3)	10	6	L	+5100	-230	-	RNAV1

WAYPOINT LIST

VAGEM 1C		
Waypoint Identifier	Coordinates	
VAGEM	520159.00N	0710114.00E
CC410	513608.50N	0705845.92E
CC412	512517.29N	0705744.56E
CC414	511355.58N	0705641.01E
CC416	511252.76N	0704717.20E
CC418	510917.08N	0703939.41E
CC420	510354.95N	0703525.59E
CC422	510057.81N	0705529.01E
CC424	505448.62N	0710433.59E
ROPIM	505037.85N	0711120.41E

CHANGE: Editorial.

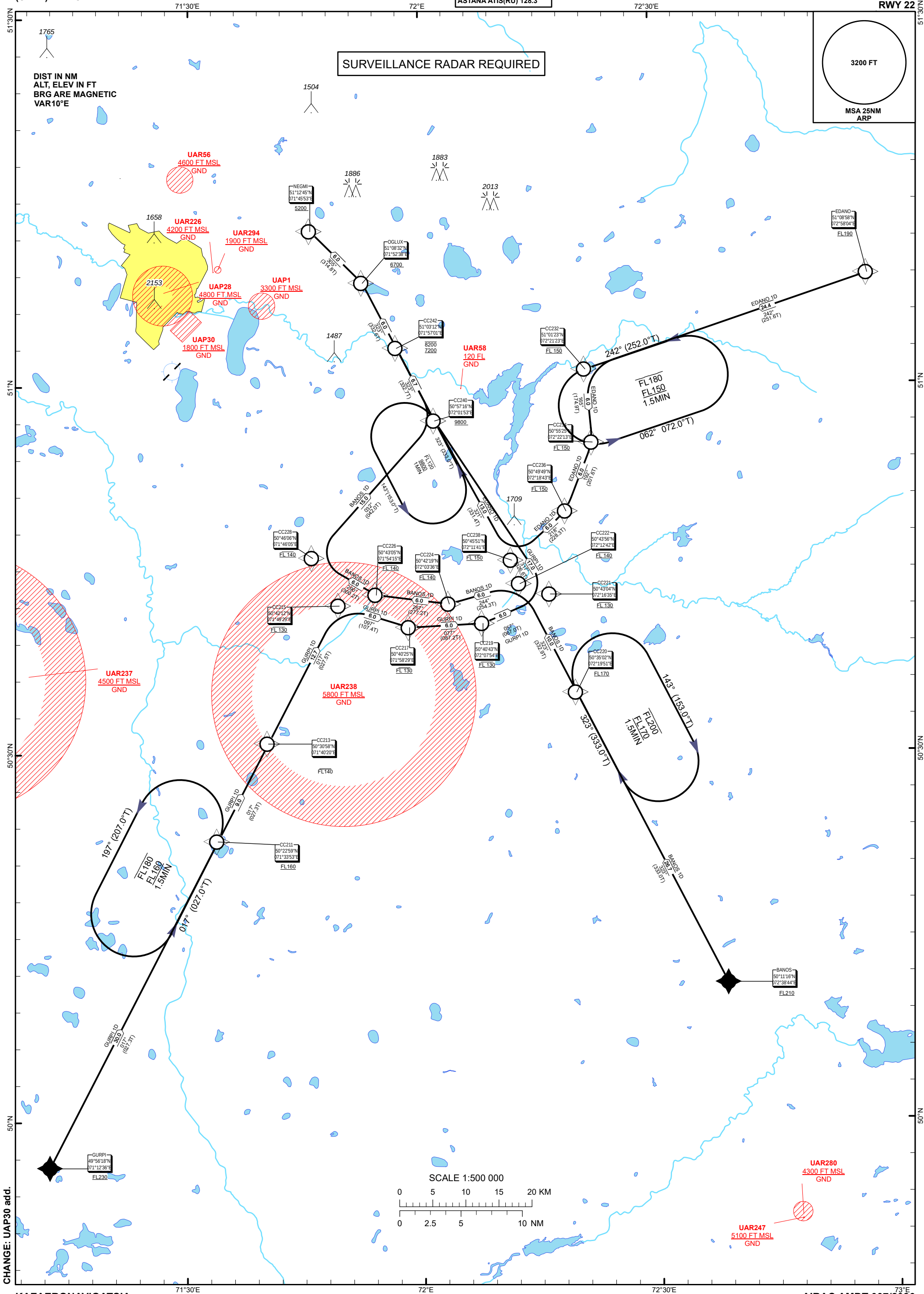
STANDARD ARRIVAL
CHART - INSTRUMENT
(STAR) - ICAO

TRANSITION ALT
10000 FT

ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3

(RNAV 1 STAR BASED ON GNSS)
BANOS 1D, EDANO 1D, GURPI 1D

ASTANA
NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
RWY 22



TABULAR DESCRIPTION

BANOS 1D RWY22											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	IF	BANOS	-		10	0	-	+FL210	-315	-	RNAV1
20	TF	CC220	-	323(333)	10	26.7	-	+FL170	-280	-	RNAV1
30	TF	CC222	-	323(332.9)	10	10	-	@FL140	-280	-	RNAV1
40	TF	CC224	-	244(254.3)	10	6	L	@FL140	-280	-	RNAV1
50	TF	CC226	-	267(277.2)	10	6	R	@FL140	-280	-	RNAV1
60	TF	CC228	-	290(300.2)	10	6	R	@FL140	-280	-	RNAV1
70	TF	CC240	-	32(42)	10	15	R	+9800	-250	-	RNAV1
80	TF	CC242	-	323(332.7)	10	6.7	L	+7200 -8200	-250	-	RNAV1
90	TF	OGLUX	-	323(332.6)	10	6	L	+6700	-250	-	RNAV1
100	TF	NEGMI	-	305(314.8)	10	6	L	+5200	-230	-	RNAV1

WAYPOINT LIST

BANOS 1D		
Waypoint Identifier	Coordinates	
BANOS	501116.00N	0723844.00E
CC220	503502.43N	0721951.13E
CC222	504356.03N	0721241.80E
CC224	504218.99N	0720336.37E
CC226	504304.68N	0715414.60E
CC228	504605.89N	0714605.08E
CC240	505715.58N	0720152.69E
CC242	510312.43N	0715700.84E
OGLUX	510831.82N	0715238.33E
NEGMI	511245.30N	0714552.60E

TABULAR DESCRIPTION

EDANO 1D RWY22											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	IF	EDANO	-		10	-	-	+FL190	-315	-	RNAV1
20	TF	CC232	-	242(251.6)	10	24.4	-	@FL150	-280	-	RNAV1
30	TF	CC234	-	165(174.9)	10	6	L	@FL150	-280	-	RNAV1
40	TF	CC236	-	192(201.6)	10	6	R	@FL150	-280	-	RNAV1
50	TF	CC238	-	218(228.3)	10	6	R	@FL150	-280	-	RNAV1
60	TF	CC240	-	321(331.4)	10	13	R	+9800	-250	-	RNAV1
70	TF	CC242	-	323(332.7)	10	6.7	R	+7200 -8200	-250	-	RNAV1
80	TF	OGLUX	-	323(332.6)	10	6	L	+6700	-250	-	RNAV1
90	TF	NEGMI	-	305(314.8)	10	6	L	+5200	-230	-	RNAV1

WAYPOINT LIST

EDANO 1D		
Waypoint Identifier	Coordinates	
EDANO	510858.00N	0725804.00E
CC232	510123.17N	0722123.11E
CC234	505524.99N	0722213.30E
CC236	504949.27N	0721843.08E
CC238	504551.12N	0721140.77E
CC240	505715.58N	0720152.69E
CC242	510312.43N	0715700.84E
OGLUX	510831.82N	0715238.33E
NEGMI	511245.30N	0714552.60E

TABULAR DESCRIPTION

GURPI 1D RWY22											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	IF	GURPI	-		10	0	-	+FL230	-315	-	RNAV1
20	TF	CC211	-	17(27.3)	10	30	-	+FL160	-280	-	RNAV1
30	TF	CC213	-	17(27.3)	10	9	-	-FL140	-280	-	RNAV1
40	TF	CC215	-	17(27.5)	10	12.7	-	@FL130	-280	-	RNAV1
50	TF	CC217	-	97(107.4)	10	6	R	@FL130	-280	-	RNAV1
60	TF	CC219	-	77(87.2)	10	6	L	@FL130	-280	-	RNAV1
70	TF	CC221	-	57(67)	10	6	L	@FL130	-280	-	RNAV1
80	TF	CC240	-	317(326.6)	10	17	L	+9800	-250	-	RNAV1
90	TF	CC242	-	323(332.7)	10	6.7	R	+7200 - 8200	-250	-	RNAV1
100	TF	OGLUX	-	323(332.6)	10	6	L	+6700	-250	-	RNAV1
110	TF	NEGMI	-	305(314.8)	10	6	L	+5200	-230	-	RNAV1

WAYPOINT LIST

GURPI 1D		
Waypoint Identifier	Coordinates	
GURPI	495618.00N	0711236.00E
CC211	502259.17N	0713352.65E
CC213	503057.99N	0714019.71E
CC215	504212.17N	0714928.90E
CC217	504024.91N	0715829.21E
CC219	504042.83N	0720754.44E
CC221	504303.73N	0721635.37E
CC240	505715.58N	0720152.69E
CC242	510312.43N	0715700.84E
OGLUX	510831.82N	0715238.33E
NEGMI	511245.30N	0714552.60E

CHANGE: Editorial.

STANDARD ARRIVAL
CHART - INSTRUMENT
(STAR) - ICAO

TRANSITION ALT
10000 FT

ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3

(RNAV 1 STAR BASED ON GNSS)
DIDAL 1D, VAGEM 1D, VETUB 2D

ASTANA
NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
RWY 22

DIST IN NM
ALT, ELEV IN FT
BRG ARE MAGNETIC
VAR10°E

SURVEILLANCE RADAR REQUIRED

UAD18
UNL
GND

3200 FT

MSA 25NM
ARP

UAP2
8100 FT MSL
GND

UAP26
6400 FT MSL
GND

UAR245
4700 FT MSL
GND

UAR56
4600 FT MSL
GND

UAR226
4200 FT MSL
GND

UAR294
1900 FT MSL
GND

UAP28
4800 FT MSL
GND

UAP1
3300 FT MSL
GND

UAP30
1800 FT MSL
GND

UAR237
4500 FT MSL
GND

UAR238
5800 FT MSL
GND

CHANGE: UAP30 add.

TABULAR DESCRIPTION

DIDAL 1D											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	IF	DIDAL	-		10	0	-	+FL200	-315	-	RNAV1
20	TF	CC249	-	87(97.2)	10	32.4	-	+FL170	-280	-	RNAV1
30	TF	CC251	-	88(97.5)	10	14	-	@FL140	-280	-	RNAV1
40	TF	CC253	-	9(19.1)	10	6	L	@FL140	-280	-	RNAV1
50	TF	CC255	-	32(42.3)	10	6	R	@FL140	-280	-	RNAV1
60	TF	CC257	-	55(65.5)	10	6	R	@FL140	-280	-	RNAV1
70	TF	CC270	-	157(167.1)	10	15	R	+10000	-250	-	RNAV1
80	TF	ASDEX	-	126(135.9)	10	6.2	L	+7500	-250	-	RNAV1
90	TF	NEGMI	-	125(134.8)	10	6	L	+5200	-230	-	RNAV1

WAYPOINT LIST

DIDAL 1D		
Waypoint Identifier	Coordinates	
DIDAL	512908.00N	0695453.00E
CC249	512514.52N	0704616.73E
CC251	512326.63N	0710827.01E
CC253	512906.41N	0711135.16E
CC255	513332.66N	0711802.51E
CC257	513602.33N	0712647.22E
CC270	512126.38N	0713210.34E
ASDEX	511658.39N	0713905.63E
NEGMI	511245.30N	0714552.60E

TABULAR DESCRIPTION

VAGEM 1D											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	IF	VAGEM	-		10	0	-	+FL190	-315	-	RNAV1
20	TF	CC250	-	145(154.6)	10	15.9	-	+FL160	-280	-	RNAV1
30	TF	CC252	-	145(154.7)	10	12	-	@FL130	-280	-	RNAV1
40	TF	CC254	-	224(234.4)	10	6	R	@FL130	-280	-	RNAV1
50	TF	CC256	-	204(214)	10	6	L	@FL130	-280	-	RNAV1
60	TF	CC258	-	184(193.7)	10	6	L	@FL130	-280	-	RNAV1
70	TF	CC270	-	84(93.8)	10	17	L	+10000	-250	-	RNAV1
80	TF	ASDEX	-	126(135.9)	10	6.2	R	+7500	-250	-	RNAV1
90	TF	NEGMI	-	125(134.8)	10	6	L	+5200	-230	-	RNAV1

WAYPOINT LIST

VAGEM 1D		
Waypoint Identifier	Coordinates	
VAGEM	520159.00N	0710114.00E
CC250	514737.53N	0711218.47E
CC252	513647.82N	0712034.43E
CC254	513318.85N	0711244.78E
CC256	512820.94N	0710722.13E
CC258	512231.57N	0710506.20E
CC270	512126.38N	0713210.34E
ASDEX	511658.39N	0713905.63E
NEGMI	511245.30N	0714552.60E

TABULAR DESCRIPTION

VETUB 2D											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	IF	VETUB	-		10	0	-	+FL210	-315	-	RNAV1
20	TF	ODATU	-	58(67.8)	10	35.9	-	+FL170	-280	-	RNAV1
30	TF	CC260	-	11(21.2)	10	9	L	+FL160	-280	-	RNAV1
40	TF	CC262	-	8(18.1)	10	11.1	-	@FL150	-280	-	RNAV1
50	TF	CC264	-	325(334.7)	10	6	L	@FL150	-280	-	RNAV1
60	TF	CC266	-	351(1.4)	10	6	R	@FL150	-280	-	RNAV1
70	TF	CC268	-	18(28.2)	10	6	R	@FL150	-280	-	RNAV1
80	TF	CC270	-	122(131.7)	10	13	R	+10000	-250	-	RNAV1
90	TF	ASDEX	-	126(135.9)	10	6.2	R	+7500	-250	-	RNAV1
100	TF	NEGMI	-	125(134.8)	10	6	L	+5200	-230	-	RNAV1

WAYPOINT LIST

VETUB 2D		
Waypoint Identifier	Coordinates	
VETUB	504107.00N	0701250.00E
ODATU	505426.70N	0710518.10E
CC260	510249.33N	0711027.06E
CC262	511321.91N	0711557.33E
CC264	511847.14N	0711152.91E
CC266	512446.59N	0711207.11E
CC268	513003.67N	0711638.49E
CC270	512126.38N	0713210.34E
ASDEX	511658.39N	0713905.63E
NEGMI	511245.30N	0714552.60E

CHANGE: Editorial.

STANDARD ARRIVAL
CHART - INSTRUMENT
(STAR) - ICAO

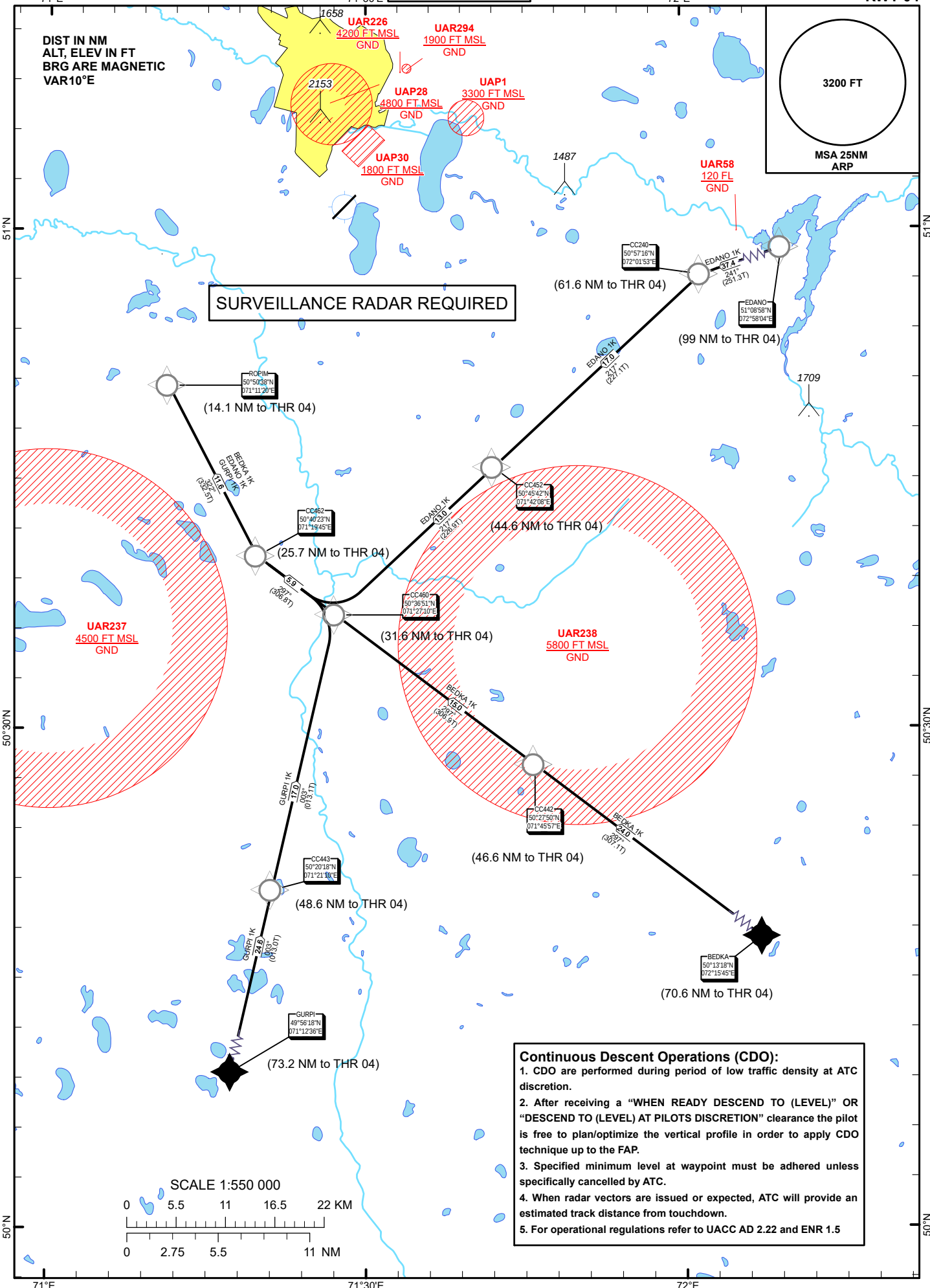
TRANSITION ALT
10000 FT

ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3

(RNAV 1 STAR BASED ON GNSS)
BEDKA 1K, EDANO 1K,
GURPI 1K

ASTANA
NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
RWY 04

DIST IN NM
ALT, ELEV IN FT
BRG ARE MAGNETIC
VAR10°E



CHANGE: UAP30 add.

TABULAR DESCRIPTION

BEDKA 1K											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	IF	BEDKA	-		10	0	-	+FL160 /-FL260	-315	-	RNAV1
20	TF	CC442	-	297(307.1)	10	24	-	+11000/ - FL170	-280	-2	RNAV1
30	TF	CC460	-	297(306.9)	10	15	-	+8300 /-FL120	-250	-2.1	RNAV1
40	TF	CC462	-	297(306.8)	10	5.9	-	+7000/-10000	-250	-1.8	RNAV1
50	TF	ROPIM	-	322(332.5)	10	11.6	R	+4500/-5900	-220	-2	RNAV1

WAYPOINT LIST

BEDKA 1K		
Waypoint Identifier	Coordinates	
BEDKA	501318.00N	0721545.00E
CC442	502749.84N	0714557.03E
CC460	503650.82N	0712710.28E
CC462	504022.77N	0711945.13E
ROPIM	505037.85N	0711120.41E

WAYPOINT LIST

EDANO 1K		
Waypoint Identifier	Coordinates	
EDANO	510858.00N	0725804.00E
CC240	505715.58N	0720152.69E
CC452	504542.01N	0714207.56E
CC460	503650.82N	0712710.28E
CC462	504022.77N	0711945.13E
ROPIM	505037.85N	0711120.41E

TABULAR DESCRIPTION

EDANO 1K											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	IF	EDANO	-		10	0	-	+FL220/-FL360	-315	-	RNAV1
20	TF	CC240	-	241(251.3)	10	37.4	-	+FL140/-FL230	-280	-2	RNAV1
30	TF	CC452	-	217(227.1)	10	17	L	+10000/-FL170	-280	-2	RNAV1
40	TF	CC460	-	217(226.9)	10	13	-	+8300/-FL120	-250	-2	RNAV1
50	TF	CC462	-	297(306.8)	10	5.9	R	+7000/-10000	-250	-1.8	RNAV1
60	TF	ROPIM	-	322(332.5)	10	11.6	R	+4500/-5900	-220	-2	RNAV1

TABULAR DESCRIPTION

GURPI 1K											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	IF	GURPI	-		10	0	-	+FL160/-FL270	-315	-	RNAV1
20	TF	CC443	-	3(13)	10	24.6	-	+11000/-FL180	-280	-1.8	RNAV1
30	TF	CC460	-	3(13.1)	10	17	-	+8300/-FL120	-250	-2.1	RNAV1
40	TF	CC462	-	297(306.8)	10	5.9	L	+7000/-10000	-250	-1.8	RNAV1
50	TF	ROPIM	-	322(332.5)	10	11.6	R	+4500/-5900	-220	-2	RNAV1

WAYPOINT LIST

GURPI 1K		
Waypoint Identifier	Coordinates	
GURPI	495618.00N	0711236.00E
CC443	502018.11N	0712110.45E
CC460	503650.82N	0712710.28E
CC462	504022.77N	0711945.13E
ROPIM	505037.85N	0711120.41E

STANDARD ARRIVAL
CHART - INSTRUMENT
(STAR) - ICAO

TRANSITION ALT
10000 FT

ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3

(RNAV 1 STAR BASED ON GNSS)
KODOL 1K, OSROL 1K,
VAGEM 1K

ASTANA
NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
RWY 04

DIST IN NM
ALT, ELEV IN FT
BRG ARE MAGNETIC
VAR10°E

SURVEILLANCE RADAR REQUIRED

3200 FT

MSA 25NM
ARP

Continuous Descent Operations (CDO):

1. CDO are performed during period of low traffic density at ATC discretion.
2. After receiving a "WHEN READY DESCEND TO (LEVEL)" OR "DESCEND TO (LEVEL) AT PILOTS DISCRETION" clearance the pilot is free to plan/optimize the vertical profile in order to apply CDO technique up to the FAP.
3. Specified minimum level at waypoint must be adhered unless specifically cancelled by ATC.
4. When radar vectors are issued or expected, ATC will provide an estimated track distance from touchdown.
5. For operational regulations refer to UACC AD 2.22 and ENR 1.5

Continuous Descent Operations (CDO):

KODOL
51°10'29"N
070°20'03"E
(68.6 NM to THR 04)

CC423
51°06'53"N
070°33'38"E

(43.5 NM to THR 04)

KODOL 1K
15.0
(119.47)

OSROL
50°52'49"N
070°20'21"E
(65.1 NM to THR 04)

CC432
50°55'08"N
070°30'13"E
(45.5 NM to THR 04)

OSROL 1K
17.0
(070.17)

CC414
51°13'56"N
070°56'41"E
(41.5 NM to THR 04)

VAGEM 1K
18.2
(183.37)

VAGEM
51°28'05"N
070°58'01"E
(89.7 NM to THR 04)

CC422
51°00'58"N
070°55'29"E

(28.5 NM to THR 04)

CC424
50°54'49"N
071°04'34"E

(20.1 NM to THR 04)

ROPIM
50°50'38"N
071°11'20"E

(14.1 NM to THR 04)

UAR56
4600 FT MSL
GND

UAR294
1900 FT MSL
GND

UAR226
4200 FT
MSL
GND

UAR28
4800 FT MSL
GND

UAP30
1800 FT MSL
GND

UAR237
4500 FT MSL
GND

UAR238
5800 FT MSL
GND

UAP12
120 FT
GND

SCALE 1:500 000

0 5 10 15 20 KM

0 2.5 5 10 NM

CHANGE: UAP30 add.

TABULAR DESCRIPTION

KODOL 1K											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	IF	KODOL	-		10	0	-	+FL150/-FL250	-315	-	RNAV1
20	TF	CC423	-	103(113.1)	10	25.1	-	+9900/-FL160	-280	-2	RNAV1
30	TF	CC422	-	103(113.4)	10	15	-	+7700/-11000	-250	-2	RNAV1
40	TF	CC424	-	127(137.1)	10	8.4	R	+5800/-8000	-250	-2	RNAV1
50	TF	ROPIM	-	124(134.3)	10	6	L	+4500/-5900	-230	-2.1	RNAV1

WAYPOINT LIST

KODOL 1K		
Waypoint Identifier	Coordinates	
KODOL	511638.00N	0695651.00E
CC423	510652.79N	0703338.28E
CC422	510057.81N	0705529.01E
CC424	505448.62N	0710433.59E
ROPIM	505037.85N	0711120.41E

WAYPOINT LIST

OSROL 1K		
Waypoint Identifier	Coordinates	
OSROL	504818.00N	0700112.00E
CC432	505508.25N	0703013.46E
CC422	510057.81N	0705529.01E
CC424	505448.62N	0710433.59E
ROPIM	505037.85N	0711120.41E

TABULAR DESCRIPTION

OSROL 1K											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	IF	OSROL	-		10	0	-	+FL140/-FL240	-315	-	RNAV1
20	TF	CC432	-	60(69.8)	10	19.6	L	+10000/-FL170	-280	-2	RNAV1
30	TF	CC422	-	60(70.1)	10	17	L	+7700/-11000	-250	-2	RNAV1
40	TF	CC424	-	127(137.1)	10	8.4	R	+5800/-8000	-250	-2	RNAV1
50	TF	ROPIM	-	124(134.3)	10	6	L	+4500/-5900	-230	-2.1	RNAV1

TABULAR DESCRIPTION

VAGEM 1K											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	IF	VAGEM	-		10	0	-	+FL200/-FL330	-315	-	RNAV1
20	TF	CC414	-	173(183.3)	10	48.2	R	+9500/-FL160	-280	-2	RNAV1
30	TF	CC422	-	173(183.3)	10	13	R	+7700/-11000	-250	-1.9	RNAV1
40	TF	CC424	-	127(137.1)	10	8.4	L	+5800/-8000	-250	-2	RNAV1
50	TF	ROPIM	-	124(134.3)	10	6	L	+4500/-5900	-230	-2.1	RNAV1
WAYPOINT LIST											
VAGEM 1K											
Waypoint Identifier	Coordinates										
VAGEM	520159.00N	0710114.00E									
CC414	511355.58N	0705641.01E									
CC422	510057.81N	0705529.01E									
CC424	505448.62N	0710433.59E									
ROPIM	505037.85N	0711120.41E									

STANDARD ARRIVAL
CHART - INSTRUMENT
(STAR) - ICAO

TRANSITION ALT
10000 FT

ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3

(RNAV 1 STAR BASED ON GNSS)
BANOS 1G, EDANO 1H,
GURPI 1H

ASTANA
NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
RWY 22

71°30'E

72°30'E

UAR245
4700 FT
MSL
GND

DIST IN NM
ALT, ELEV IN FT
BRG ARE MAGNETIC
VAR10°E

SURVEILLANCE RADAR REQUIRED

UAR241
2700 FT MSL
GND

3200 FT

MSA 25NM
ARP

1765

1504

1883

UAR56
4600 FT MSL
GND

UAR226
4200 FT MSL
GND

UAR294
1900 FT MSL
GND

UAP1
3300 FT MSL
GND

UAP28
4800 FT MSL
GND

UAP30
1800 FT MSL
GND

CC242
51°03'12"N
71°57'01"E

CC240
50°57'16"N
72°01'53"E

CC215
50°42'12"N
71°49'29"E

CC222
50°43'56"N
72°12'42"E

CC232
51°01'23"N
72°21'23"E

CC222
50°43'56"N
72°12'42"E

CC222
50°43'56"N
72°12'42"E

CC222
50°43'56"N
72°12'42"E

CC222
50°43'56"N
72°12'42"E

CC222
50°43'56"N
72°12'42"E

CC222
50°43'56"N
72°12'42"E

CC222
50°43'56"N
72°12'42"E

CC222
50°43'56"N
72°12'42"E

CC222
50°43'56"N
72°12'42"E

CC222
50°43'56"N
72°12'42"E

CC222
50°43'56"N
72°12'42"E

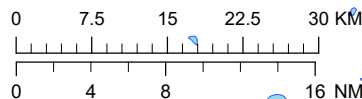
CC222
50°43'56"N
72°12'42"E

CC222
50°43'56"N
72°12'42"E

Continuous Descent Operations (CDO):

1. CDO are performed during period of low traffic density at ATC discretion.
2. After receiving a "WHEN READY DESCEND TO (LEVEL)" OR "DESCEND TO (LEVEL) AT PILOTS DISCRETION" clearance the pilot is free to plan/optimize the vertical profile in order to apply CDO technique up to the FAP.
3. Specified minimum level at waypoint must be adhered unless specifically cancelled by ATC.
4. When radar vectors are issued or expected, ATC will provide an estimated track distance from touchdown.
5. For operational regulations refer to UACC AD 2.22 and ENR 1.5

SCALE 1:750 000



CHANGE: UAP30 add.

TABULAR DESCRIPTION

BANOS 1G											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	IF	BANOS	-		10	0	-	+FL190/-FL310	-315	-	RNAV1
20	TF	CC222	-	323(332.9)	10	36.7	-	+11000/-FL180	-280	-2	RNAV1
30	TF	CC240	-	323(332.7)	10	15	-	+8900/-FL130	-250	-2.1	RNAV1
40	TF	CC242	-	323(332.7)	10	6.7	-	+7400/-11000	-250	-1.8	RNAV1
50	TF	OGLUX	-	323(332.6)	10	6	-	+6100/-8300	-250	-2.1	RNAV1
60	TF	NEGMI	-	305(314.8)	10	6	L	+5200	-230	-2.1	RNAV1

WAYPOINT LIST

BANOS 1G											
Waypoint Identifier		Coordinates									
BANOS		501116.00N	0723844.00E								
CC222		504356.03N	0721241.80E								
CC240		505715.58N	0720152.69E								
CC242		510312.43N	0715700.84E								
OGLUX		510831.82N	0715238.33E								
NEGMI		511245.30N	0714552.60E								

WAYPOINT LIST

EDANO 1H			
Waypoint Identifier		Coordinates	
EDANO		510858.00N	0725804.00E
CC232		510123.17N	0722123.11E
CC240		505715.58N	0720152.69E
CC242		510312.43N	0715700.84E
OGLUX		510831.82N	0715238.33E
NEGMI		511245.30N	0714552.60E

TABULAR DESCRIPTION

EDANO 1H											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	IF	EDANO	-		10	0	-	+FL160/-FL260	-315	-	RNAV1
20	TF	CC232	-	242(251.6)	10	24.4	-	+11000/-FL170	-280	-2	RNAV1
30	TF	CC240	-	241(251.3)	10	13	-	+8900/-FL130	-250	-2	RNAV1
40	TF	CC242	-	323(332.7)	10	6.7	R	+7400/-11000	-250	-1.8	RNAV1
50	TF	OGLUX	-	323(332.6)	10	6	-	+6100/-8300	-250	-2.1	RNAV1
60	TF	NEGMI	-	305(314.8)	10	6	L	+5200	-230	-2.1	RNAV1

TABULAR DESCRIPTION

GURPI 1H											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	IF	GURPI	-		10	0	-	+FL230/-FL370	-315	-	RNAV1
20	TF	CC215	-	17(27.5)	10	51.7	-	+11000/-FL190	-280	-2	RNAV1
30	TF	CC240	-	18(27.6)	10	17	-	+8900/-FL130	-250	-2	RNAV1
40	TF	CC242	-	323(332.7)	10	6.7	L	+7400/-11000	-250	-1.8	RNAV1
50	TF	OGLUX	-	323(332.6)	10	6	-	+6100/-8300	-250	-2.1	RNAV1
60	TF	NEGMI	-	305(314.8)	10	6	L	+5200	-230	-2.1	RNAV1

WAYPOINT LIST

GURPI 1H											
Waypoint Identifier		Coordinates									
GURPI		495618.00N	0711236.00E								
CC215		504212.17N	0714928.90E								
CC240		505715.58N	0720152.69E								
CC242		510312.43N	0715700.84E								
OGLUX		510831.82N	0715238.33E								
NEGMI		511245.30N	0714552.60E								

STANDARD ARRIVAL
CHART - INSTRUMENT
(STAR) - ICAO

TRANSITION ALT
10000 FT

ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3

(RNAV 1 STAR BASED ON GNSS)
DIDAL 1G, VAGEM 1H,
VETUB 2H

ASTANA
NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
RWY 22

71°E

71°30'E

SURVEILLANCE RADAR REQUIRED

3200 FT

MSA 25NM
ARP

UAR245
4700 FT MSL
GND

(72.2 NM to THR 22)

VAGEM
52°01'59"N
071°01'14"E

CC252
51°36'48"N
071°20'34"E

(44.3 NM to THR 22)

(42.3 NM to THR 22)

CC251
51°23'27"N
071°08'27"E

(88.7 NM to THR 22)

DIDAL
51°29'08"N
069°54'53"E

DIDAL 1G
46.4
088°
(097.5T)

DIDAL 1G
15.0
088°
(097.8T)

(40.3 NM to THR 22)

CC262
51°13'22"N
071°15'57"E

(27.3 NM to THR 22)

CC270
51°21'26"N
071°32'10"E

1504

(21.1 NM to THR 22)

ASDEX
51°16'58"N
071°39'06"E

1886

(15.1 NM to THR 22)

NEGMI
51°12'45"N
071°45'53"E

SCALE 1:550 000

0 5.5 11 16.5 22 KM

0 2.75 5.5 11 NM

VETUB 2H
20.1
089°
(093.4T)

(96.2 NM to THR 22)

VETUB
50°41'07"N
070°12'50"E

(59.4 NM to THR 22)

VETUB 2H
35.9
089°
(087.8T)

ODATU
50°54'27"N
071°05'18"E

Continuous Descent Operations (CDO):

1. CDO are performed during period of low traffic density at ATC discretion.
2. After receiving a "WHEN READY DESCEND TO (LEVEL)" OR "DESCEND TO (LEVEL)" AT PILOTS DISCRETION" clearance the pilot is free to plan/optimize the vertical profile in order to apply CDO technique up to the FAP.
3. Specified minimum level at waypoint must be adhered unless specifically cancelled by ATC.
4. When radar vectors are issued or expected, ATC will provide an estimated track distance from touchdown.
5. For operational regulations refer to UACC AD 2.22 and ENR 1.5

UAR237
4500 FT MSL
GND

UAR238
5800 FT MSL
GND

CHANGE: UAP30 add.

TABULAR DESCRIPTION

DIDAL 1G											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	IF	DIDAL	-		10	0	-	+FL200/-FL320	-315	-	RNAV1
20	TF	CC251	-	88(97.5)	10	46.4	-	+11000/-FL160	-280	-2	RNAV1
30	TF	CC270	-	88(97.8)	10	15	-	+7500/-11000	-250	-2	RNAV1
40	TF	ASDEX	-	126(135.9)	10	6.2	R	+6100/-8300	-250	-2	RNAV1
50	TF	NEGMI	-	125(134.8)	10	6	L	+5200	-230	-2.1	RNAV1

WAYPOINT LIST

DIDAL 1G		
Waypoint Identifier	Coordinates	
DIDAL	512908.00N	0695453.00E
CC251	512326.63N	0710827.01E
CC270	512126.38N	0713210.34E
ASDEX	511658.39N	0713905.63E
NEGMI	511245.30N	0714552.60E

WAYPOINT LIST

VAGEM 1H		
Waypoint Identifier	Coordinates	
VAGEM	520159.00N	0710114.00E
CC252	513647.82N	0712034.43E
CC270	512126.38N	0713210.34E
ASDEX	511658.39N	0713905.63E
NEGMI	511245.30N	0714552.60E

TABULAR DESCRIPTION

VAGEM 1H											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	IF	VAGEM	-		10	0	-	+FL160/-FL260	-315	-	RNAV1
20	TF	CC252	-	145(154.7)	10	27.9	-	+10000/+FL160	-280	-2	RNAV1
30	TF	CC270	-	145(154.8)	10	17	-	+7500/-11000	-250	-2	RNAV1
40	TF	ASDEX	-	126(135.9)	10	6.2	L	+6100/-8300	-250	-2	RNAV1
50	TF	NEGMI	-	125(134.8)	10	6	L	+5200	-230	-2.1	RNAV1

TABULAR DESCRIPTION

VETUB 2H											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
10	IF	VETUB	-		10	0	-	+FL210/-FL350	-320	-	RNAV1
20	TF	ODATU	-	58(67.8)	10	35.9	-	+FL130/-FL220	-280	-2	RNAV1
30	TF	CC262	-	09(19.46)	10	20.1	L	+9300/-FL150	-280	-1.9	RNAV1
40	TF	CC270	-	41(51.4)	10	13	R	+7500/-11000	-250	-2	RNAV1
50	TF	ASDEX	-	126(135.8)	10	6.2	R	+6100/-8300	-250	-2	RNAV1
60	TF	NEGMI	-	125(134.7)	10	6	L	+5200	-230	-2.1	RNAV1

WAYPOINT LIST

VETUB 2H		
Waypoint Identifier	Coordinates	
VETUB	504107.00N	0701250.00E
ODATU	505426.70N	0710518.10E
CC262	511321.91N	0711557.33E
CC270	512126.38N	0713210.34E
ASDEX	511658.39N	0713905.63E
NEGMI	511245.30N	0714552.60E

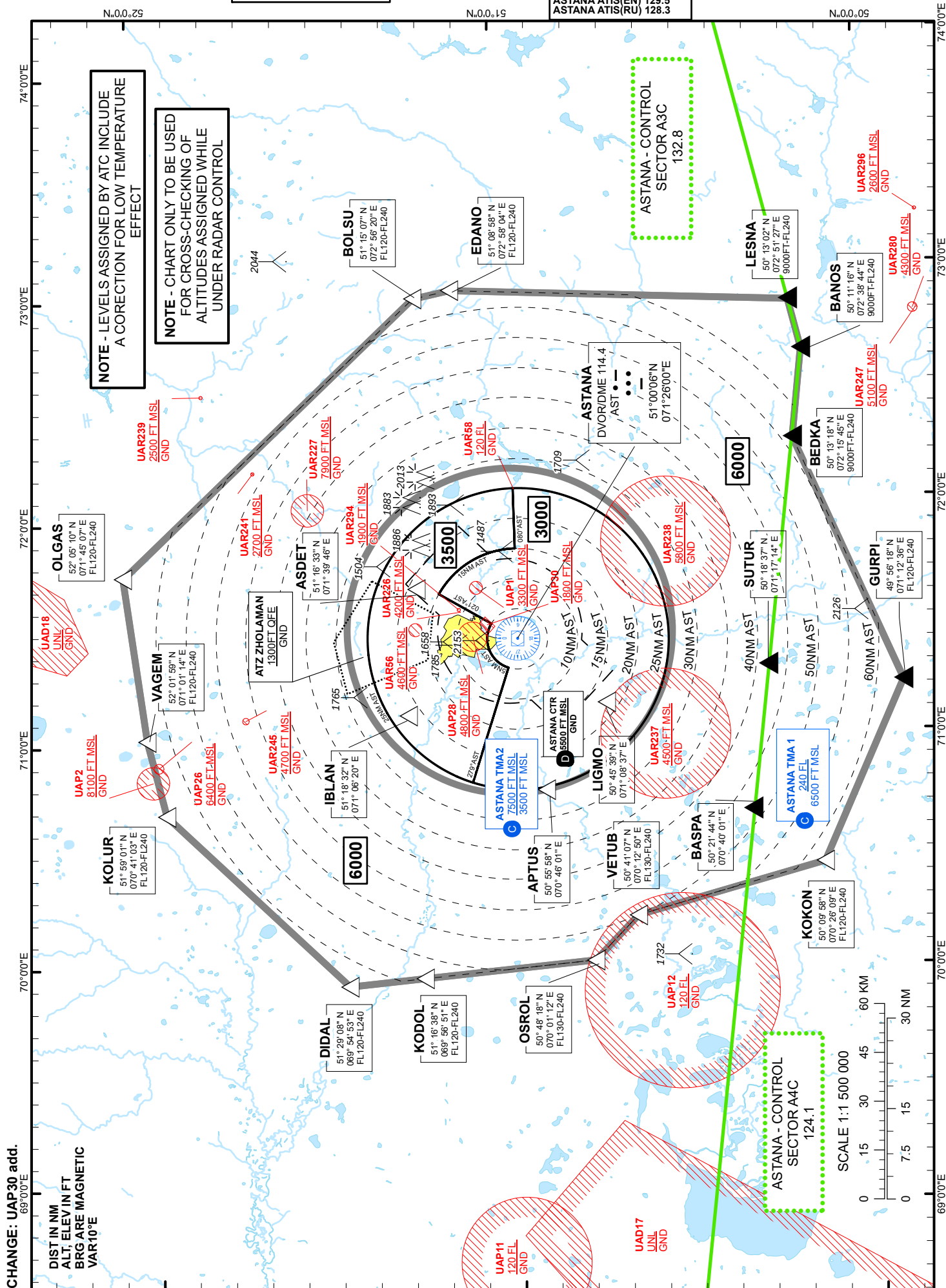
ATC Surveillance Minimum
Altitude Chart - ICAO

TRANSITION ALTITUDE
10000 FT

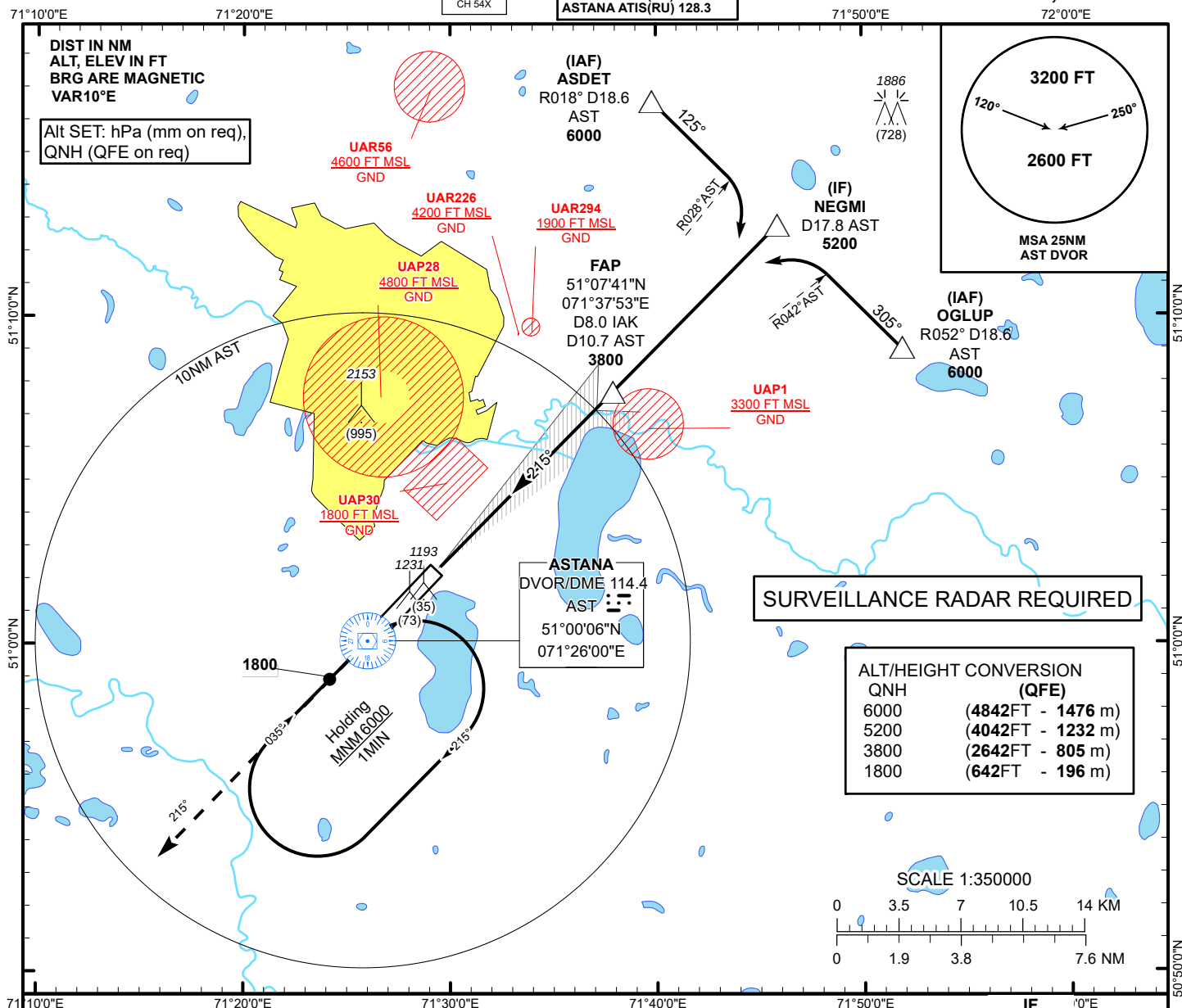
AERODROME ELEV
1166 FT

ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA GROUND 119.6
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3

ASTANA
NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT



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INSTRUMENT
APPROACH
CHART - ICAOAERODROME ELEV **1166FT**
HEIGHTS RELATED TO
THR RWY 22 - ELEV **1158FT**ILS
LLZ 111.7
IAK
GP 333.5
CH 54XASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA GROUND 119.6
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3ASTANA/NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
ILS/DME Y CAT II, III RWY 22

MISSED APPROACH

Climb on track 215° to 4000ft. After climbing 1800ft radar vectoring will be provided.

RADIO FAILURE:
In case of RCF climb on track 215° to 2400ft or above.
Outbound to D6.7 NM AST, turn RIGHT to AST.
Climb to 6000 ft to AST and join to holding pattern.
Missed approach turn speed limited to 240kt IAS maximum.

DVOR/DME
ASTILS RDH 54
ELEV 1158
THR RWY 22TRANSITION ALT
10000IF
NEGMI
AST D17.8
IAK D15.1
5200FAP
IAK D8.0
AST D10.7
3800

GP 3.0°

215°

Aircraft Category		A	B	C	D	THR - DME IAK	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
Straight-in Approach OCA/H	CAT I	1360(200)	1360(200)	1360(200)	1360(200)	DME AST	3.7	4.7	5.7	6.7	7.7	8.7	9.7	10.7
	CAT II	1260(100)	1260(100)	1260(100)	1263(103)	ALTITUDE	1531	1852	2175	2499	2826	3154	3484	3800
	CAT III	CAT III approved				HEIGHT	373	694	1017	1341	1668	1996	2326	2642
DME IAK ZERO RANGED TO THR RWY 22														
Aerodrome Operating Minima DH ft x RVR(CMV)	CAT I													
	CAT II													
	CAT III					GS		Kt	80	100	120	140	160	180
						Rate of descent		ft/min	420	530	630	740	840	950

ASTANA
ILS/DME Y CAT II, III

AERONAUTICAL DATA TABULATION

ILS approach to RWY22 from NEGMI, ASDET, OGLUP	
Fix/point	Coordinates
AST DVOR/DME	51° 00' 05.6"N 071° 26' 00.4"E
IAK D8.0 AST D10.7 (FAP)	51° 07' 40.9"N 071° 37' 52.9"E
NEGMI (IF) AST D17.8	51° 12' 45.3"N 071° 45' 52.6"E
ASDET (IAF) R018°AST D18.6 AST	51° 16' 33.4"N 071° 39' 46.4"E
OGLUP (IAF) R052°AST D18.6 AST	51° 08' 57.3"N 071° 51' 58.1"E
THR RWY 22	51° 02' 01.65"N 071° 29' 01.44"E
IAK LOC	51° 00' 18.8"N 071° 26' 21.0"E

INSTRUMENT
APPROACH
CHART - ICAOAERODROME ELEV **1166FT**
HEIGHTS RELATED TO
THR RWY 22 - ELEV **1158FT**ILS
LLZ 111.7
IAK
GP 333.5
CH 54XASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA GROUND 119.6
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3ASTANA/NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
ILS/DME Z CAT II, III RWY 22

71°10'0"E 71°20'0"E 71°50'0"E 72°0'0"E

DIST IN NM
ALT, ELEV IN FT
BRG ARE MAGNETIC
VAR10°EAlt SET: hPa (mm on req),
QNH (QFE on req)UAR56
4600 FT MSL
GNDUAR226
4200 FT MSL
GNDUAR294
1900 FT MSL
GNDUAP28
4800 FT MSL
GNDUAP30
1800 FT MSL
GNDFAP
51°07'41"N
071°37'53"E
D8.0 IAK
D10.7 AST
3800UAP1
3300 FT MSL
GND

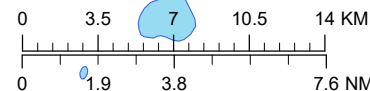
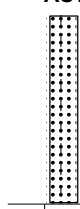
D17.8AST

R042°AST

R061°
D15.6AST
3800(IAF)
6000
ASTANA
DVOR/DME 114.4
AST
51°00'06"N
071°26'00"E

ALT/HEIGHT CONVERSION	
QNH	(QFE)
6000	(4842FT - 1476 m)
3800	(2642FT - 805 m)
2400	(1242FT - 379 m)

SCALE 1:350000

TRANSITION ALT
10000IAF
6000DVOR/DME
AST

GP 3.0°

215°

ILS RDH 54

FAP
D8.0 IAK
D10.7 AST
3800ELEV 1158
THR RWY 22

MISSED APPROACH

Climb on track 215° to 2400 or above,
outbound to D6.7 AST, turn RIGHT to AST.
Climb initially to 3800, then as directed by ATC.

RADIO FAILURE:

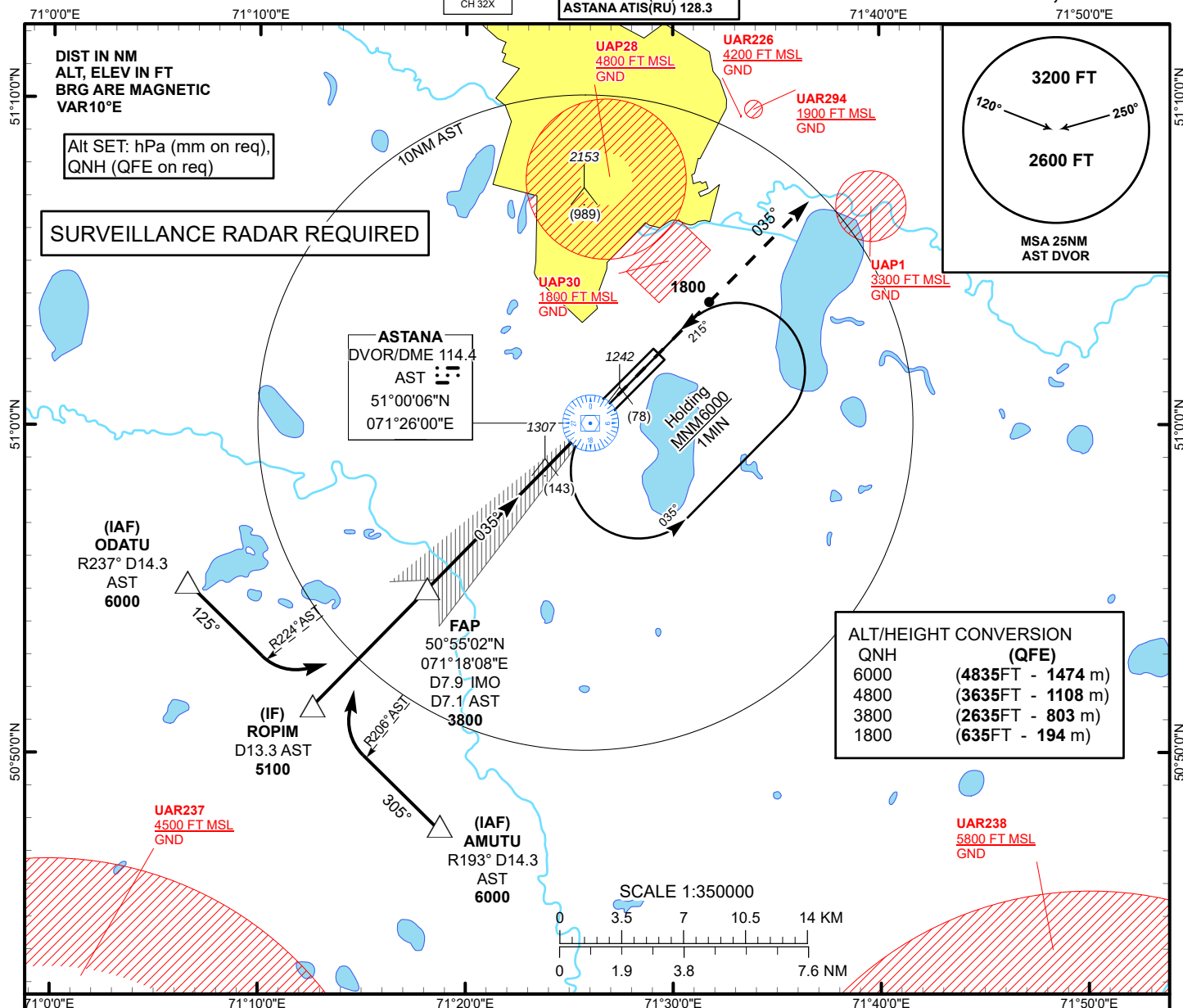
in case of RCF climb to 6000 to AST and join
to holding pattern. Missed approach turn speed
limited to 240 Kt IAS maximum

Aircraft Category		A	B	C	D	THR - DME IAK	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
Straight-in Approach OCA/H	CAT I	1360(200)	1360(200)	1360(200)	1360(200)	DME AST	3.7	4.7	5.7	6.7	7.7	8.7	9.7	10.7
	CAT II	1260(100)	1260(100)	1260(100)	1263(103)	ALTITUDE	1531	1852	2175	2499	2826	3154	3484	3800
	CAT III	CAT III approved				HEIGHT	373	694	1017	1341	1668	1996	2326	2642
DME IAK ZERO RANGED TO THR RWY 22														
Aerodrome Operating Minima DH ft x RVR(CMV)	CAT I													
	CAT II													
	CAT III					GS		Kt	80	100	120	140	160	180
						Rate of descent		ft/min	420	530	630	740	840	950

ASTANA
ILS/DME Z CAT II, III

AERONAUTICAL DATA TABULATION

ILS approach to RWY22 from AST VOR/DME	
Fix/point	Coordinates
AST DVOR/DME	51° 00' 05.6"N 071° 26' 00.4"E
IAK D8.0 AST D10.7 (FAP)	51° 07' 40.9"N 071° 37' 52.9"E
THR RWY 22	51° 02' 01.65"N 071° 29' 01.44"E
IAK LOC	51° 00' 18.8"N 071° 26' 21.0"E

INSTRUMENT
APPROACH
CHART - ICAOAERODROME ELEV **1166FT**
HEIGHTS RELATED TO
THR RWY 04 - ELEV **1165FT**ILS
LLZ 109.5
IMO
GP 332.6
CH 32XASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA GROUND 119.6
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3ASTANA/NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
ILS/DME Y CAT II, III RWY 04IF
ROPIM
D13.3 AST
5100TRANSITION ALT
10000FAP
D7.9 IMO
D7.1 AST
3800

MISSED APPROACH

Climb on track 035° to 4000 ft. After climbing 1800ft radar
vectoring will be provided.

RADIO FAILURE:

In case of RCF climb on track 035° to 2100 ft or above
outbound to D5.4 NM AST, turn RIGHT to AST. Climb to
6000 ft to AST and join to holding pattern.

Missed approach turn speed limited to 240kt IAS maximum.

DVOR/DME
AST

GP 3.0°

035°

ILS RDH 54
ELEV 1165
THR RWY 04

Aircraft Category		A	B	C	D	THR - DME IMO	7.9	7.0	6.0	5.0	4.0	3.0	2.0	1.0
Straight-in Approach OCA/H	CAT I	1365(200)	1365(200)	1365(200)	1365(200)	DME AST	7.1	6.2	5.2	4.2	3.2	2.2	1.2	0.2
	CAT II	1265(100)	1265(100)	1265(100)	1265(100)	ALTITUDE	3800	3491	3161	2833	2506	2182	1859	1538
	CAT III	CAT III approved				HEIGHT	2635	2326	1996	1668	1341	1017	694	373

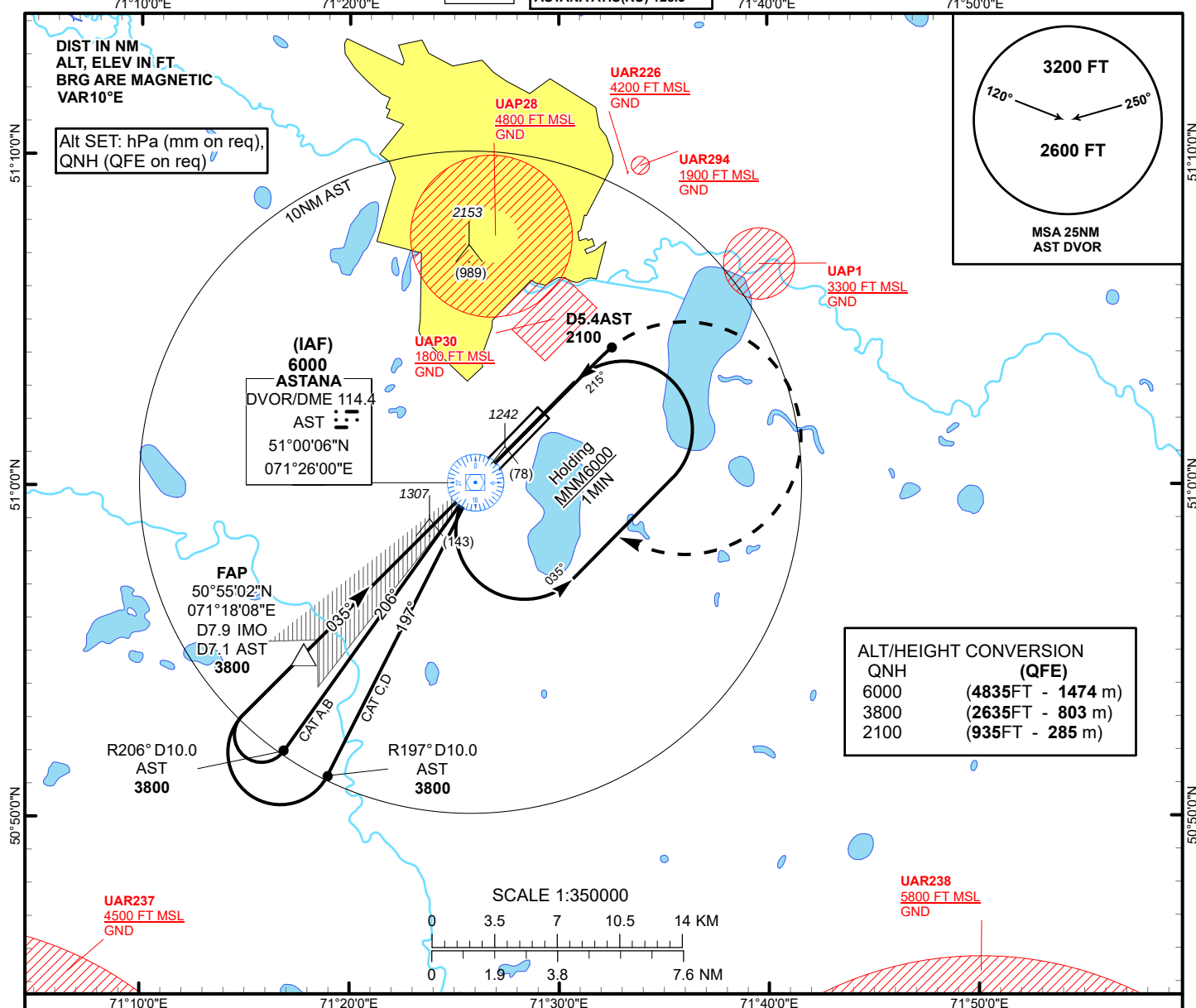
DME IMO ZERO RANGED TO THR RWY 04

Aerodrome Operating Minima DH ft x RVR (CMV)	CAT I					GS	Kt	80	100	120	140	160	180
	CAT II												
	CAT III												
Rate of descent							ft/min	420	530	630	740	840	950

ASTANA
ILS/DME Y CAT II, III

AERONAUTICAL DATA TABULATION

ILS approach to RWY04 from AST VOR, ROPIM, ODATU, AMUTU	
Fix/point	Coordinates
AST DVOR/DME	51° 00' 05.6"N 071° 26' 00.4"E
IMO D7.9 AST D7.1 (FAP)	50° 55' 01.6"N 071° 18' 08.2"E
ROPIM (IF) AST D13.3	50° 50' 38.0"N 071° 11' 20.0"E
ODATU (IAF) R237°AST D14.3 AST	50° 54' 26.7"N 071° 05' 18.1"E
AMUTU (IAF) R193°AST D14.3 AST	50° 46' 49.0"N 071° 17' 20.9"E
THR RWY 04	51° 00' 40.87"N 071° 26' 55.41"E
IMO LOC	51° 02' 24.7"N 071° 29' 37.4"E

INSTRUMENT
APPROACH
CHART - ICAOAERODROME ELEV **1166FT**
HEIGHTS RELATED TO
THR RWY 04 - ELEV **1165FT**ILS
LLZ 109.5
IMO
GP 332.6
CH 32XASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA GROUND 119.6
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3ASTANA/NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
ILS/DME Z CAT II, III RWY 04TRANSITION ALT
10000FAP
D7.9 IMO
D7.1 ASTIAF
6000

MISSED APPROACH

Climb on track 035° to 2100 or above
outbound to D5.4 AST, turn RIGHT
to AST. Climb initially to 3800
then as directed by ATC.
RADIO FAILURE: in case
of RCF climb to 6000 to AST and join
to holding pattern. Missed approach
turn speed limited to 240 kt IAS maximum.

DVOR/DME
AST

GP 3.0°

035°

035°

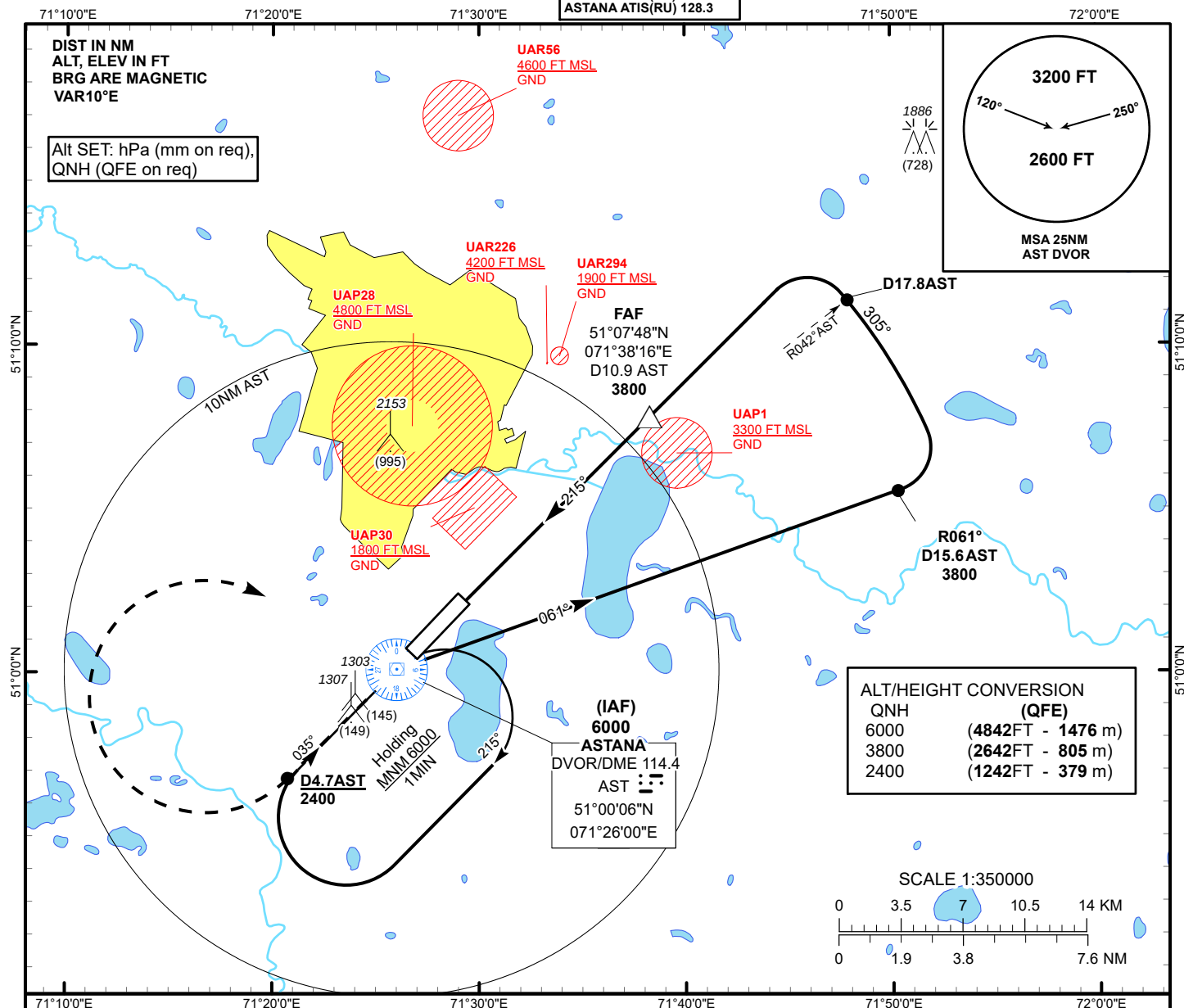
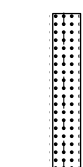
ILS RDH 54
ELEV 1165
THR RWY 04

Aircraft Category		A	B	C	D	THR - DME IMO	7.9	7.0	6.0	5.0	4.0	3.0	2.0	1.0
Straight-in Approach OCA/H	CAT I	1365(200)	1365(200)	1365(200)	1365(200)	DME AST	7.1	6.2	5.2	4.2	3.2	2.2	1.2	0.2
	CAT II	1265(100)	1265(100)	1265(100)	1265(100)	ALTITUDE	3800	3491	3161	2833	2506	2182	1859	1538
	CAT III	CAT III approved				HEIGHT	2635	2326	1996	1668	1341	1017	694	373
DME IMO ZERO RANGED TO THR RWY 04														
Aerodrome Operating Minima DH ft x RVR(CMV)	CAT I													
	CAT II													
	CAT III					GS		Kt	80	100	120	140	160	180
						Rate of descent		ft/min	420	530	630	740	840	950

ASTANA
ILS/DME Z CAT II, III

AERONAUTICAL DATA TABULATION

ILS approach to RWY04 from AST VOR/DME	
Fix/point	Coordinates
AST DVOR/DME	51° 00' 05.6"N 071° 26' 00.4"E
IMO D7.9 AST D7.1 (FAP)	50° 55' 01.6"N 071° 18' 08.2"E
THR RWY 04	51° 00' 40.87"N 071° 26' 55.41"E
IMO LOC	51° 02' 24.7"N 071° 29' 37.4"E

INSTRUMENT
APPROACH
CHART - ICAOAERODROME ELEV **1166FT**
HEIGHTS RELATED TO
THR RWY 22 - ELEV **1158FT**ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA GROUND 119.6
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3ASTANA/NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
VOR/DME RWY 22TRANSITION ALT
10000IAF
6000DVOR/DME
ASTMAPt
D3.5 AST

PDG 5.2% (3.0°)

215°

3800

FAF
D10.9 AST
3800ELEV 1158
THR RWY 22

MISSED APPROACH

Climb on track 215° to 2400 or above,
outbound to D4.7 AST, turn RIGHT to AST.
Climb initially to 3800, then as directed by ATC.

RADIO FAILURE:

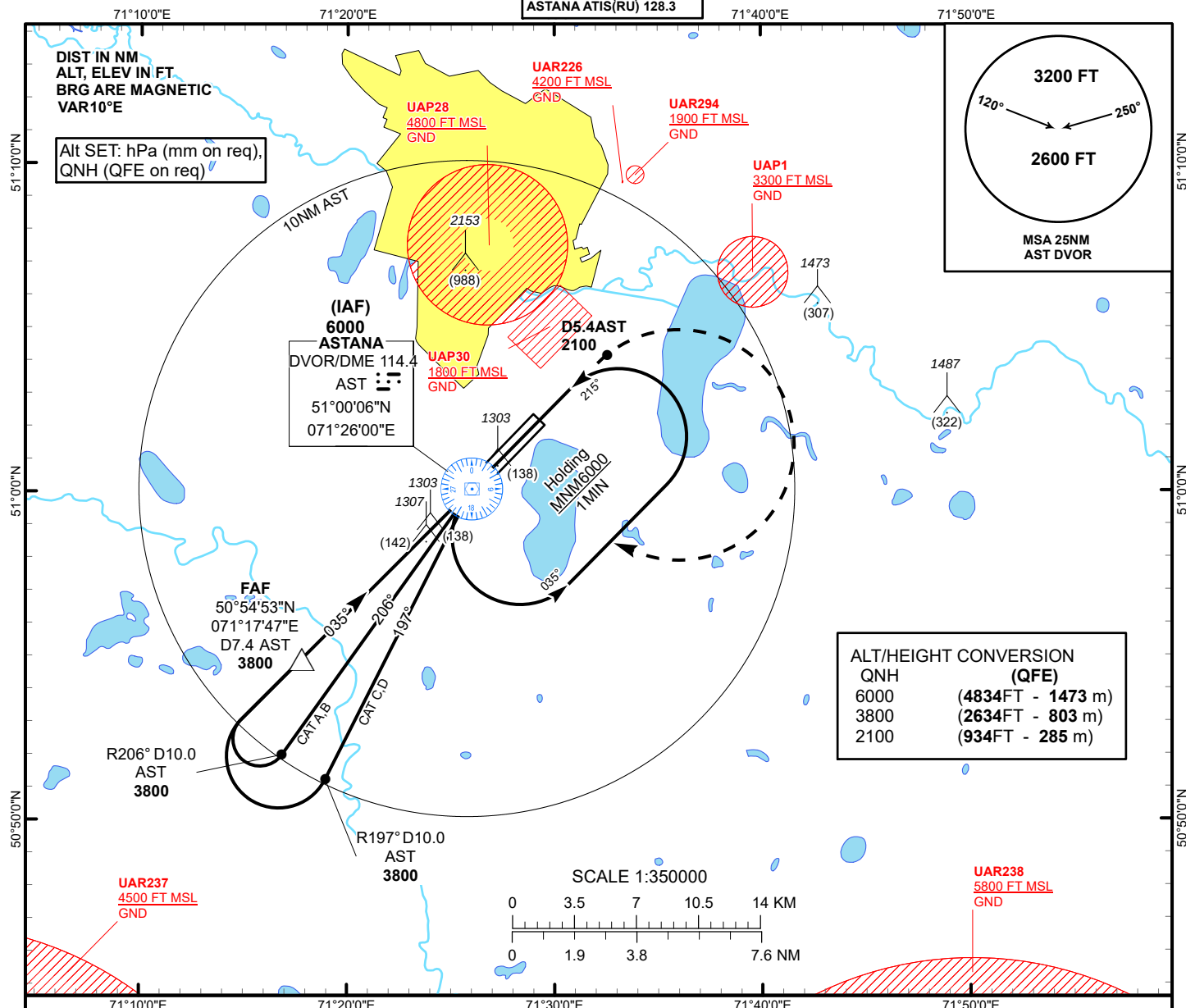
in case of RCF climb to 6000 to AST and join
to holding pattern. Missed approach turn speed
limited to 240 Kt IAS maximum

Aircraft Category		A	B	C	D	THR	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	8.2
Straight-in Approach OCA/H						DME AST	3.7	4.7	5.7	6.7	7.7	8.7	9.7	10.7	10.9
	VOR/DME	1530(370)	1530(370)	1530(370)	1530(370)	ALTITUDE	1525	1844	2162	2481	2799	3117	3436	3754	3800
						HEIGHT	(367)	(686)	(1004)	(1323)	(1641)	(1959)	(2278)	(2596)	(2642)
Aerodrome Operating Minima MDH ft x RVR(CMV)		VOR/DME				GS	Kt	80	100	120	140	160	180		
						FAF-MAPt (7.4NM)	min:sec	5:33	4:26	3:42	3:10	2:47	2:28		
						Rate of descent(5.2%)	ft/min	420	530	630	740	840	950		

ASTANA
VOR/DME

AERONAUTICAL DATA TABULATION

VOR approach to RWY22 from AST DVOR/DME	
Fix/point	Coordinates
AST DVOR/DME(IAF)	51° 00' 05.6"N 071° 26' 00.4"E
(FAF) D10.9 AST	51° 07' 47.8"N 071° 38' 16.0"E
THR RWY 22	51° 02' 01.65"N 071° 29' 01.44"E
Final approach descent angle is 3°	

INSTRUMENT
APPROACH
CHART - ICAOAERODROME ELEV **1166FT**
HEIGHTS RELATED TO
AD ELEVASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA GROUND 119.6
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3ASTANA/NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
VOR/DME RWY 04TRANSITION ALT
10000FAF
D7.4 ASTIAF
6000

MISSED APPROACH

Climb on track 035° to 2100 or above
outbound to D5.4 AST, turn RIGHT
to AST. Climb initially to 3800
then as directed by ATC.
RADIO FAILURE: in case
of RCF climb to 6000 to AST and join
to holding pattern. Missed approach
turn speed limited to 240 kt IAS maximum.

DVOR/DME
AST
MAPtPDG 5.2% (3.0°)
035°ELEV 1165
THR RWY 04

Aircraft Category		A	B	C	D	DIST to THR	8.2	8.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0
Straight-in Approach OCA/H						DME AST	7.4	7.2	6.2	5.2	4.2	3.2	2.2	1.2	0.2
	DVOR/DME	1560(390)	1560(390)	1560(390)	1560(390)	ALTITUDE	3800	3761	3443	3124	2806	2488	2169	1851	1532
						HEIGHT	(2634)	(2595)	(2277)	(1958)	(1640)	(1322)	(1003)	(685)	(366)
Aerodrome Operating Minima (MDH ft x RVR(CMV))		DVOR/DME				GS	Kt	80	100	120	140	160	180		
						FAF-MAPt (7.4)	min:sec	5:33	4:26	3:42	3:10	2:47	2:28		
						Rate of descent(5.2%)	ft/min	420	530	630	740	840	950		

CHANGE: UAP30 add.

ASTANA
VOR/DME

AERONAUTICAL DATA TABULATION

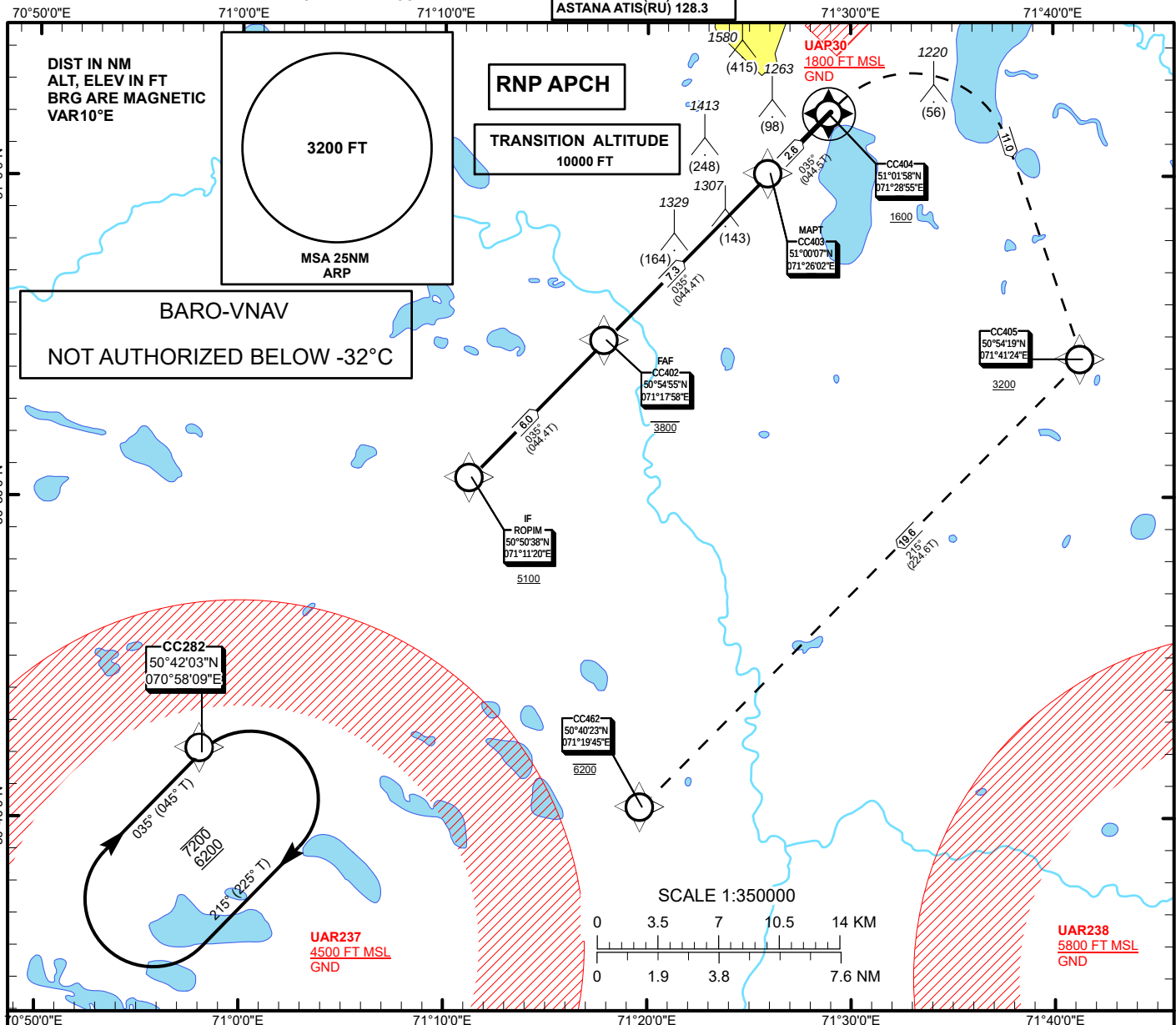
VOR approach to RWY04 from AST DVOR/DME	
Fix/point	Coordinates
AST DVOR/DME(IAF)	51° 00' 05.6"N 071° 26' 00.4"E
(FAF) D7.4 AST	50° 54' 53.4"N 071° 17' 47.1"E
THR RWY 04	51° 00' 40.87"N 071° 26' 55.41"E
Final approach descent angle is 3°	

INSTRUMENT
APPROACH
CHART - ICAO

AERODROME ELEV 1166 FT
HEIGHTS RELATED TO
THR 04 ELEV 1165 FT

ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA GROUND 119.6
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3

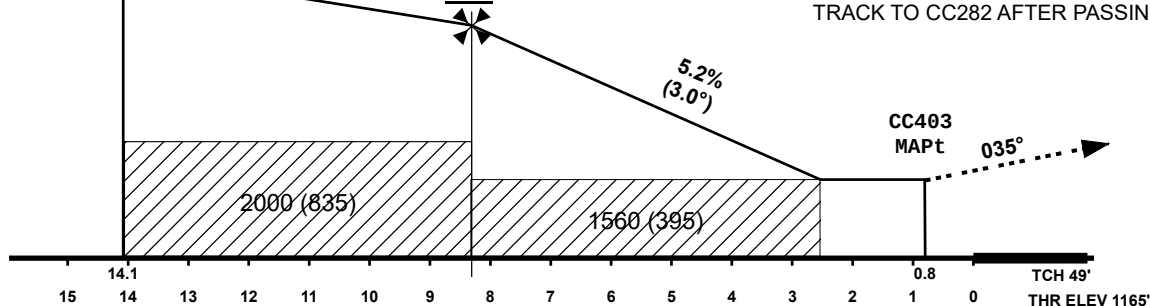
ASTANA/NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
RNP RWY 04



ROPIM
IF
5100

CC402
FAF
3800

MISSED APCH:
CLIMB TO CC404, RIGHT TURN DIRECT TO
CC405, TRACK TO CC462, CLIMBING TO
6200. EXPECT VECTORING BY ASTANA APP.
IN CASE OF RADIO COMMUNICATION FAILURE
TRACK TO CC282 AFTER PASSING CC462 AND HOLD



OCA (OCH)

Straight	LNAV	A	B	C	D
		1380 (215)	1390 (225)	1410 (245)	1480 (315)

For data tabulation see verso

GS	Kt	80	100	120	140	160	180
Rate of descent	ft/min	420	530	640	740	850	950
PFAF-MAPT 7.3 NM	min:sec	05:27	04:21	03:38	03:07	02:43	02:25

TABULAR DESCRIPTION
RNP APCH IAP
RWY04

Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
010	IF	ROPIM	-	-	10	-	-	+5100	-230		RNP APCH
020	TF	CC402	-	35(44.4)	10	6	-	@3800	-185		RNP APCH
030	TF	CC403	-	35(44.4)	10	7.3	-	@1420	-185	-3.0	RNP APCH
040	CF	CC404	Y	35(44.5)	10	2.6	-	+1600	-210	+1.4	RNP APCH
050	DF	CC405	-	-	10	11	R	+3200		+1.4	RNP APCH
060	TF	CC462	-	215(224.6)	10	19.6	R	@6200		+1.4	RNP APCH

WAYPOINT LIST

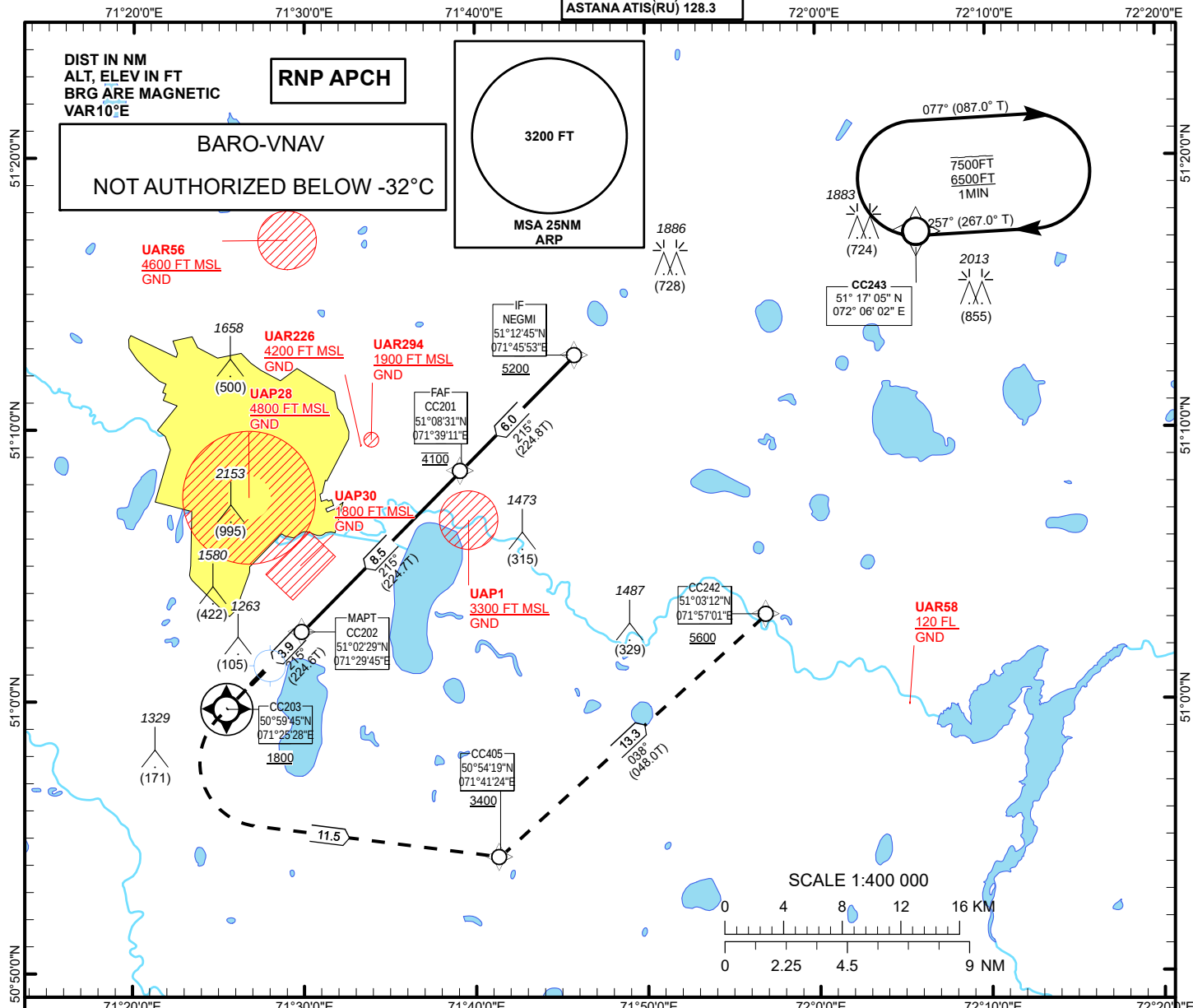
RNP APCH IAP RWY04		
Waypoint Identifier	Coordinates	
ROPIM	505037.85N	0711120.41E
CC402	505454.87N	0711757.73E
CC403	510006.69N	0712602.14E
CC404	510157.78N	0712855.38E
CC405	505418.51N	0714124.46E
CC462	504022.77N	0711945.13E

INSTRUMENT
APPROACH
CHART - ICAO

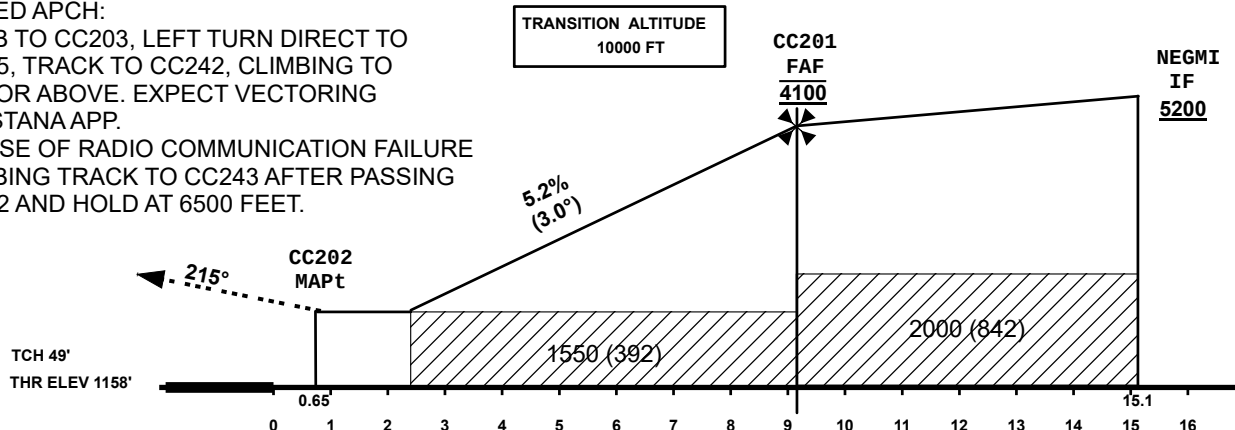
AERODROME ELEV 1166 FT
HEIGHTS RELATED TO
THR 22 ELEV 1158 FT

ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA GROUND 119.6
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3

ASTANA/NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
RNP RWY 22



MISSED APCH:
CLIMB TO CC203, LEFT TURN DIRECT TO
CC405, TRACK TO CC242, CLIMBING TO
5600 OR ABOVE. EXPECT VECTORING
BY ASTANA APP.
IN CASE OF RADIO COMMUNICATION FAILURE
CLIMBING TRACK TO CC243 AFTER PASSING
CC242 AND HOLD AT 6500 FEET.



OCA (OCH)		A	B	C	D
Straight	LNAV	1550 (392)			
	LNAV/VNAV	1430 (272)	1450 (292)	1450 (292)	1460 (302)

For data tabulation see verso

GS	Kt	80	100	120	140	160	180
Rate of descent	ft/min	420	530	640	740	850	950
PFAF-MAPT 8.5 NM	min:sec	05:27	04:21	03:38	03:07	02:43	02:25

TABULAR DESCRIPTION
RNP APCH IAP
RWY22

Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
010	IF	NEGMI	-	-	10			+5200	-230		RNP APCH
020	TF	CC201	-	215(224.8)	10	6	-	@4100	-180		RNP APCH
030	TF	CC202	-	215(224.7)	10	8.5	-	@1414		-3.0	RNP APCH
040	CF	CC203	Y	215(224.6)	10	3.9	-	+1800	-210	+1.4	RNP APCH
050	DF	CC405	-		10	11.5	L	+3400		+1.4	RNP APCH
060	TF	CC242	-	38(48.01)	10	13.3	L	+5600	-230	+1.4	RNP APCH

WAYPOINT LIST

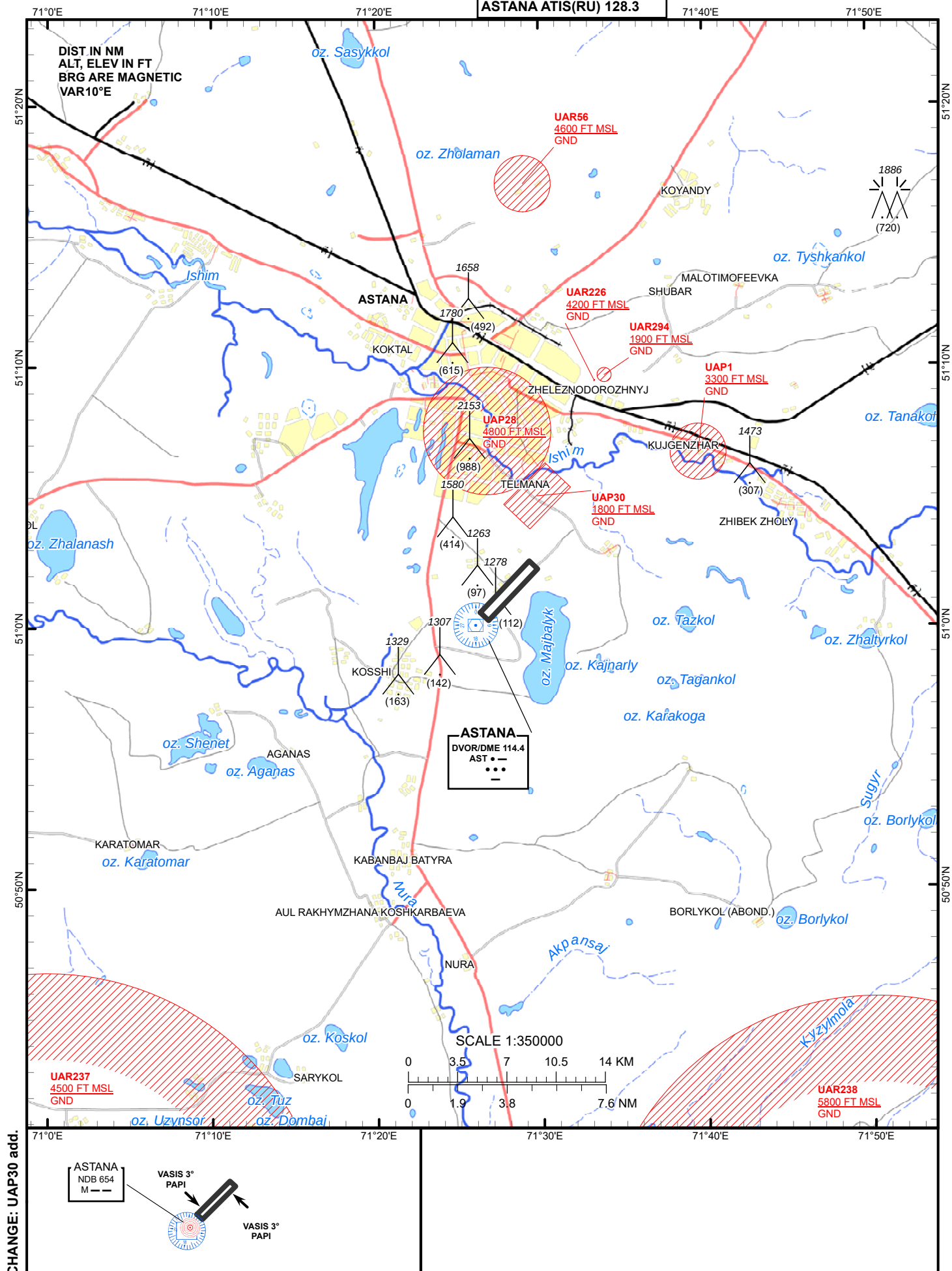
RNP APCH IAP RWY22		
Waypoint Identifier	Coordinates	
NEGMI	511245.30N	0714553.00E
CC201	510830.68N	0713910.95E
CC202	510229.41N	0712944.80E
CC203	505944.92N	0712528.24E
CC405	505418.51N	0714124.46E
CC242	510312.43N	0715700.84E

**VISUAL
APPROACH
CHART - ICAO**

AERODROME ELEV 1166 FT
HEIGHTS RELATED TO
AD ELEV

ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA GROUND 119.6
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3

**ASTANA
NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT**



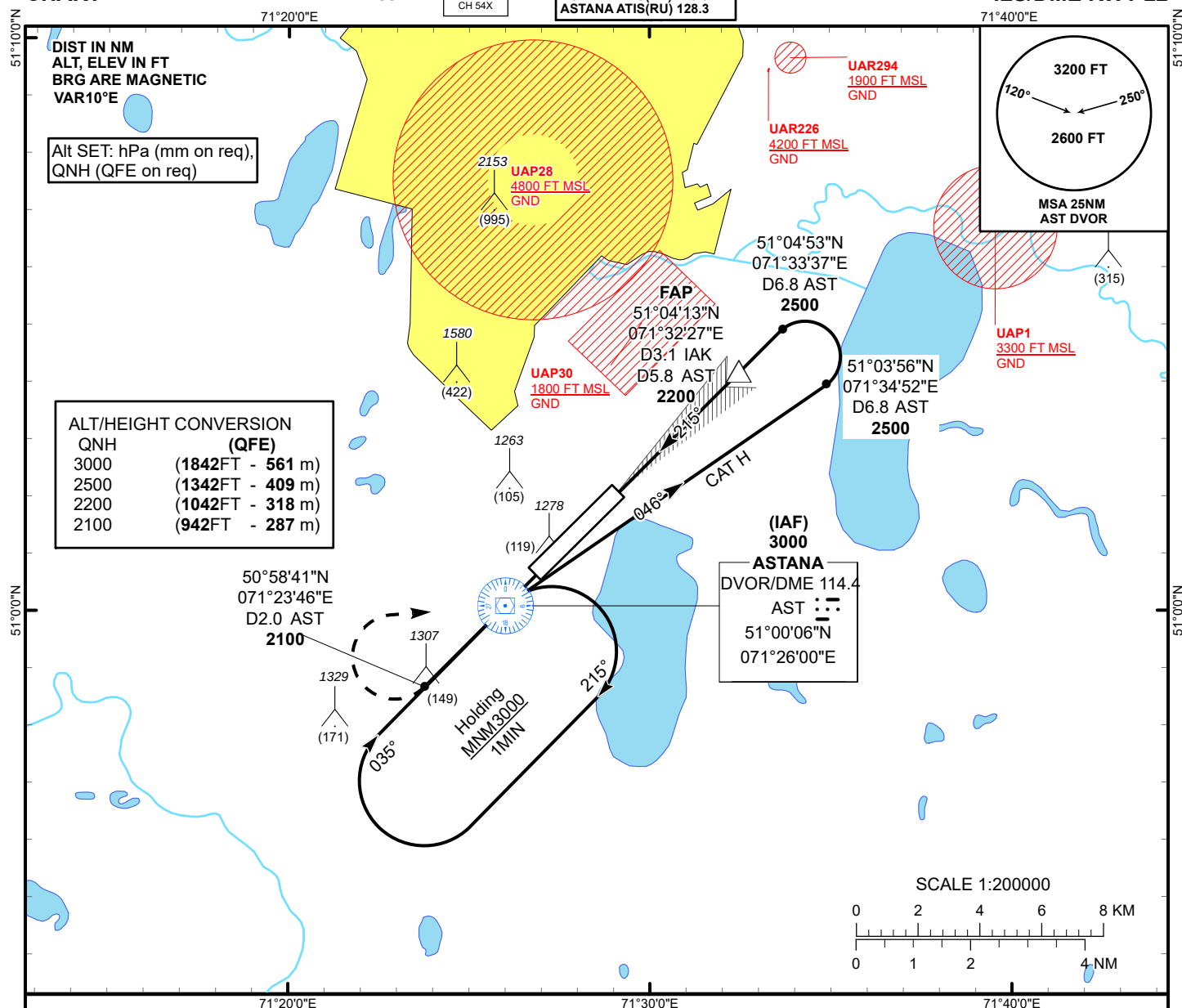
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AERODROME ELEV **1166FT**
HEIGHTS RELATED TO
THR RWY 22 - ELEV **1158FT**

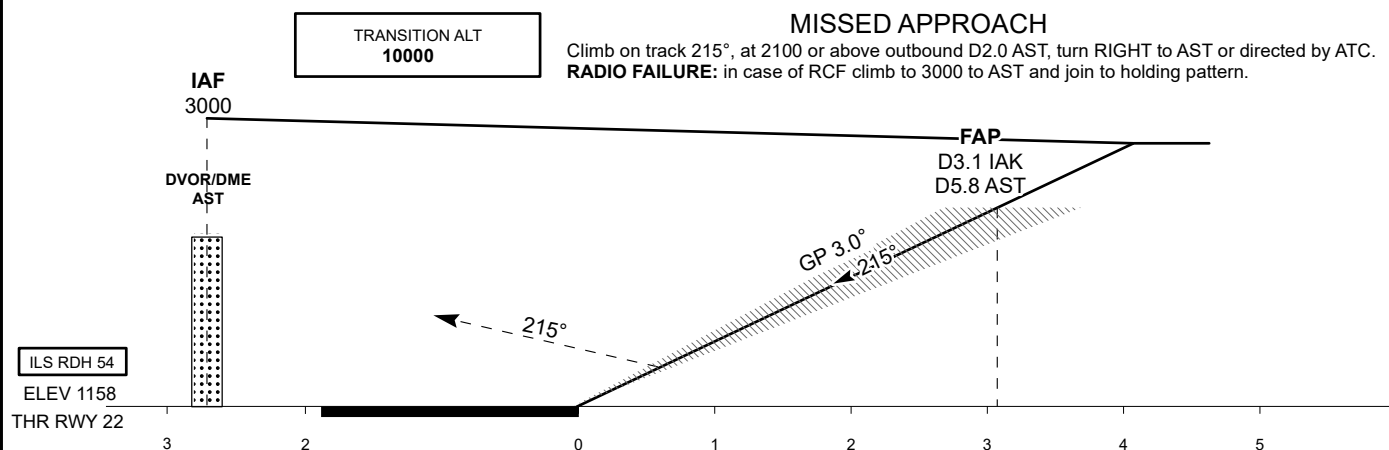
ILS
LLZ 111.7
IAK
GP 333.5
CH 54X

ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA GROUND 119.6
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3

**ASTANA/NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
ILS/DME RWY 22**



RADIO FAILURE: in case of RCF climb to 3000 to AST and join to holding pattern.



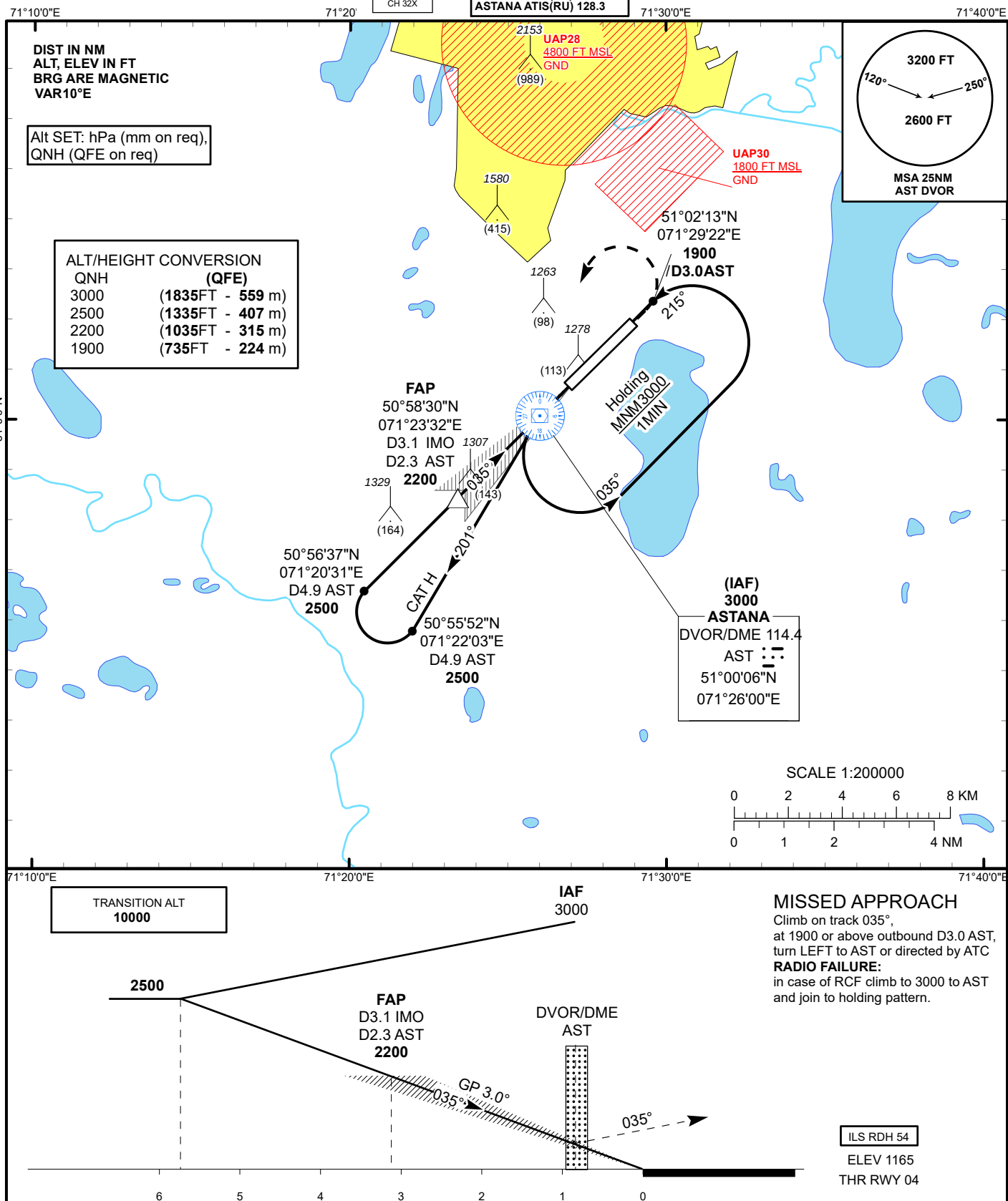
Aircraft Category		A(HEL)	B	C	D	THR - DME IAK	3.1	3	2	1
Straight-in Approach OCA/H	CAT I	1340(180)				DME AST	5.8	5.7	4.7	3.7
						ALTITUDE	2200	2175	1852	1531
						HEIGHT	1042	1017	694	373

DME IAK ZERO RANGED TO THR RWY 22

Aerodrome Operating Minima DH ft x RVR(CMV)	CAT I												
						GS	Kt	80	100	120	140	160	180
						Rate of descent	ft/min	420	530	630	740	840	950

CHANGE: UAP30 add.

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INSTRUMENT
APPROACH
CHARTAERODROME ELEV **1166FT**
HEIGHTS RELATED TO
THR RWY 04 - ELEV **1165FT**ILS
LLZ 109.5
IMO
GP 332.6
CH 32XASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA GROUND 119.6
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3ASTANA/NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
ILS/DME RWY 04

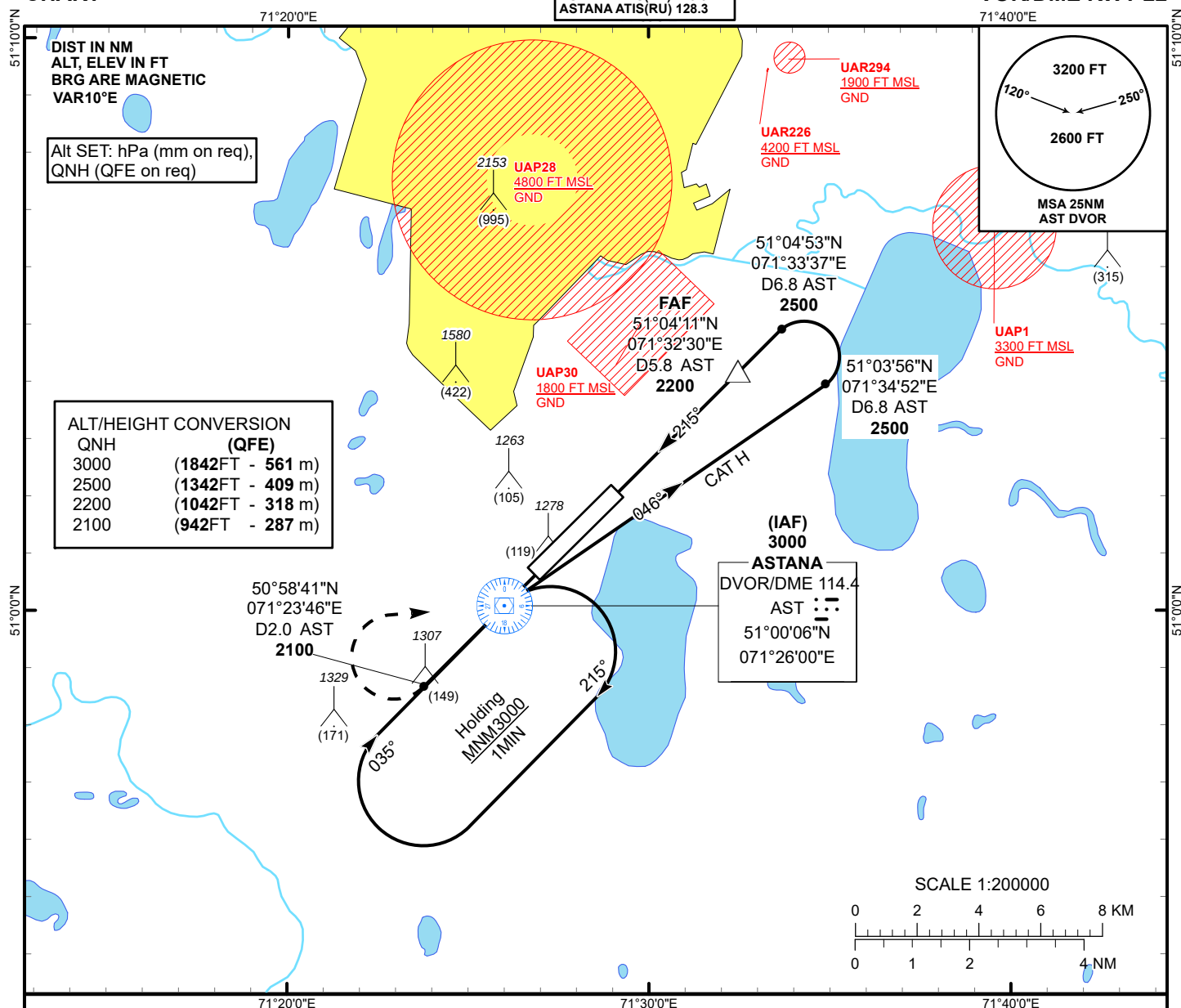
CHANGE: UAP30 add.

Aircraft Category		A(HEL)	B	C	D	THR - DME IMO	3.1	3	2	1
Straight-in Approach OCA/H	CAT I	1345(180)				DME AST	2.2	2.1	1.1	0.1
						ALTITUDE	2200	2182	1859	1538
						HEIGHT	1035	1017	694	373

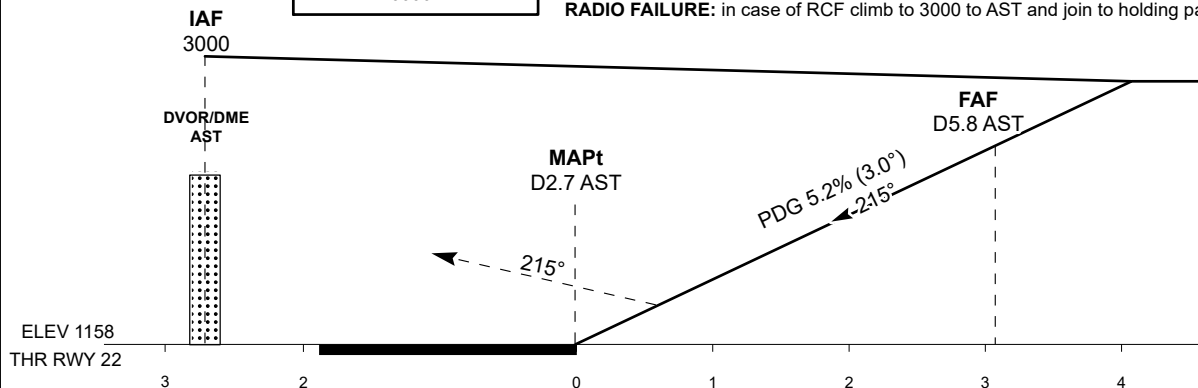
DME IMO ZERO RANGED TO THR RWY 04

Aerodrome Operating Minima DH ft x RVR(CMV)	CAT I										
						GS	Kt	80	100	120	140
						Rate of descent	ft/min	420	530	630	740
								160	180	200	220
								840	950	1060	1170

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INSTRUMENT
APPROACH
CHARTAERODROME ELEV **1166FT**
HEIGHTS RELATED TO
THR RWY 22 - ELEV **1158FT**ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA GROUND 119.6
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3ASTANA/NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
VOR/DME RWY 22TRANSITION ALT
10000

MISSED APPROACH

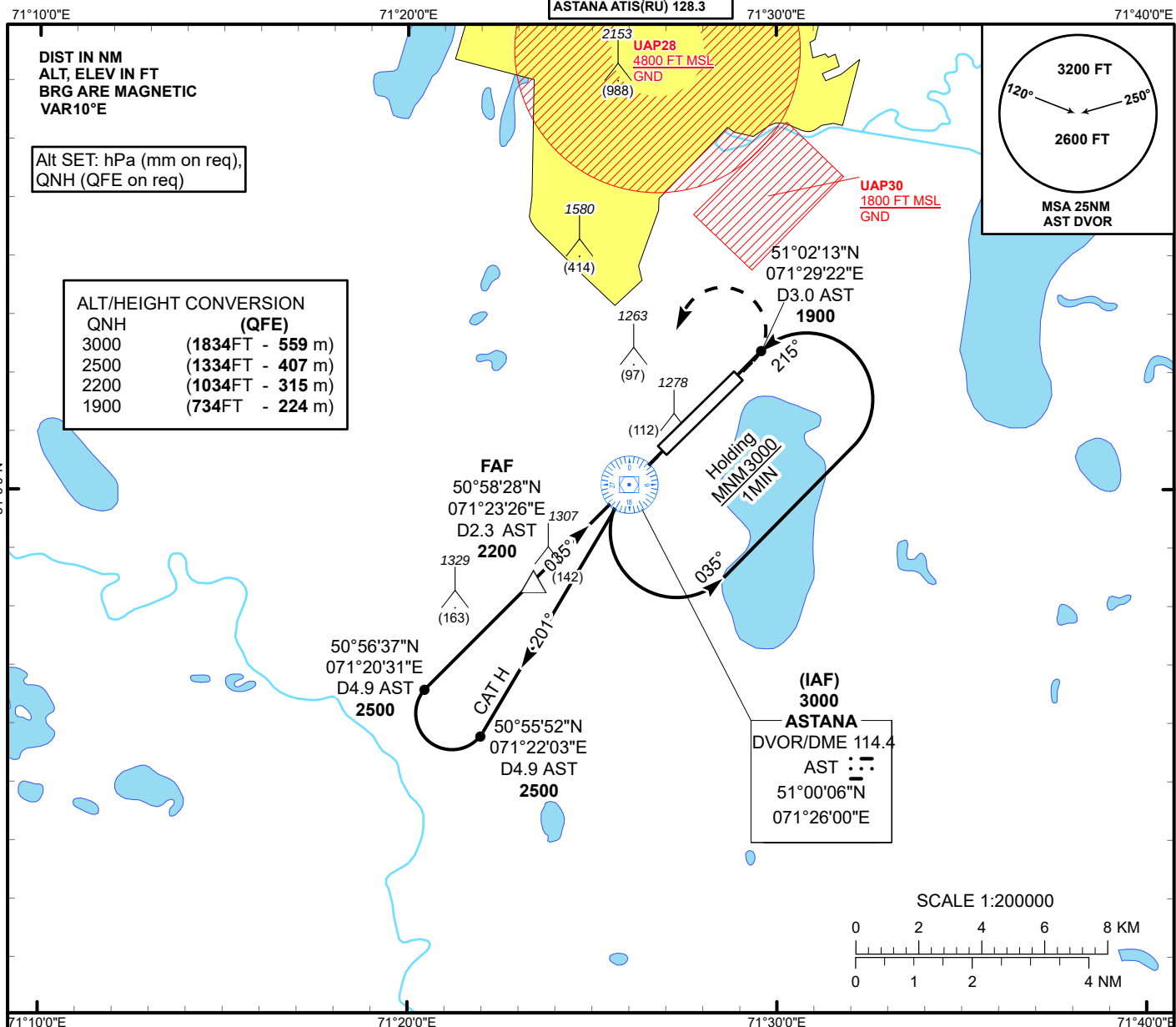
Climb on track 215°, at 2100 or above outbound D2.0 AST, turn RIGHT to AST or directed by ATC.
RADIO FAILURE: in case of RCF climb to 3000 to AST and join to holding pattern.

Aircraft Category		A(HEL)	B	C	D	THR - DME	3.1	3	2	1
Straight-in Approach OCA/H	VOR/DME	1530(370)				DME AST	5.8	5.7	4.7	3.7
						ALTITUDE	2200	2162	1844	1525
						HEIGHT	1042	1004	686	367

Aerodrome Operating Minima DH ft x RVR(CMV)	VOR/DME					GS	Kt	80	100	120	140	160	180
						FAF-MAPt(3.1NM)	min:sec	2:15	1:48	1:30	1:17	1:08	1:00
						Rate of descent	ft/min	420	530	630	740	840	950

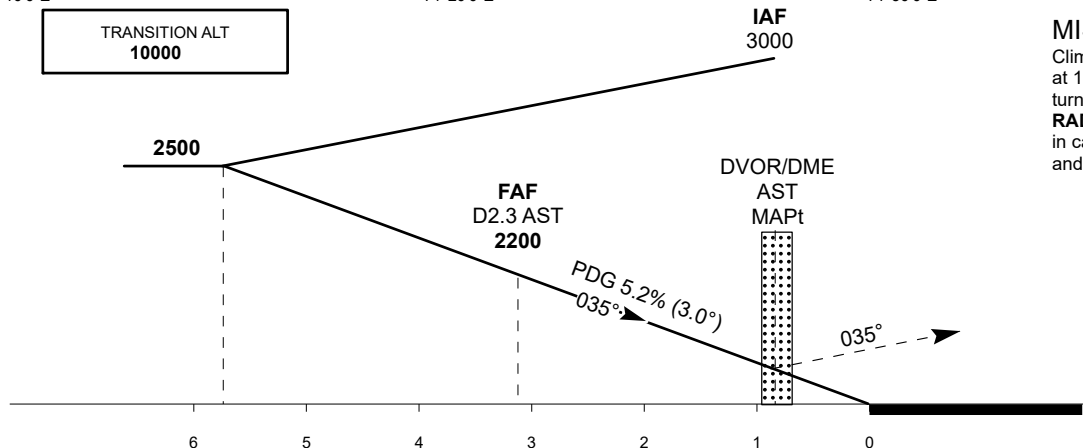
CHANGE: UAP30 add.

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INSTRUMENT
APPROACH
CHARTAERODROME ELEV **1166FT**
HEIGHTS RELATED TO
AD ELEVASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA GROUND 119.6
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3ASTANA/NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
VOR/DME RWY 04TRANSITION ALT
10000IAF
3000

MISSED APPROACH

Climb on track 035°,
at 1900 or above outbound D3.0 AST,
turn LEFT to AST or directed by ATC
RADIO FAILURE:
in case of RCF climb to 3000 to AST
and join to holding pattern.



Aircraft Category		A(HEL)	B	C	D	THR - DME	3.1	3	2	1
Straight-in Approach OCA/H	VOR/DME	1560(390)				DME AST	2.3	2.2	1.2	0.2
						ALTITUDE	2200	2169	1851	1532
						HEIGHT	1035	1004	686	367

Aerodrome Operating Minima DH ft x RVR(CMV)													
	VOR/DME												
						GS	Kt	80	100	120	140	160	180
						FAF-MAPt(2.3NM)	min:sec	1:44	1:22	1:09	0:59	0:52	0:46
						Rate of descent	ft/min	420	530	630	740	840	950

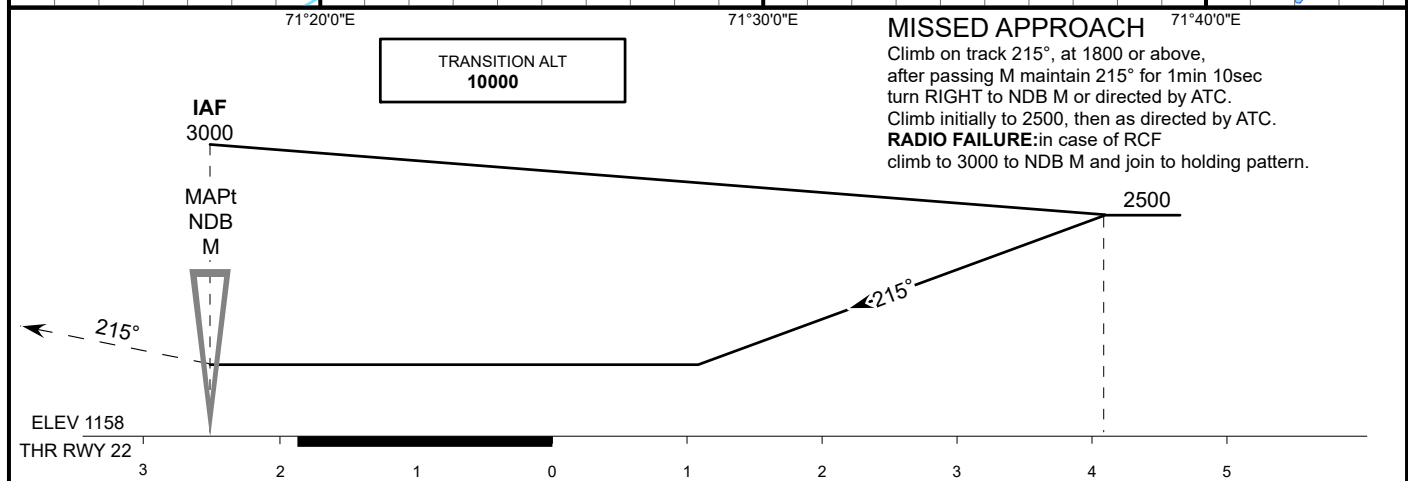
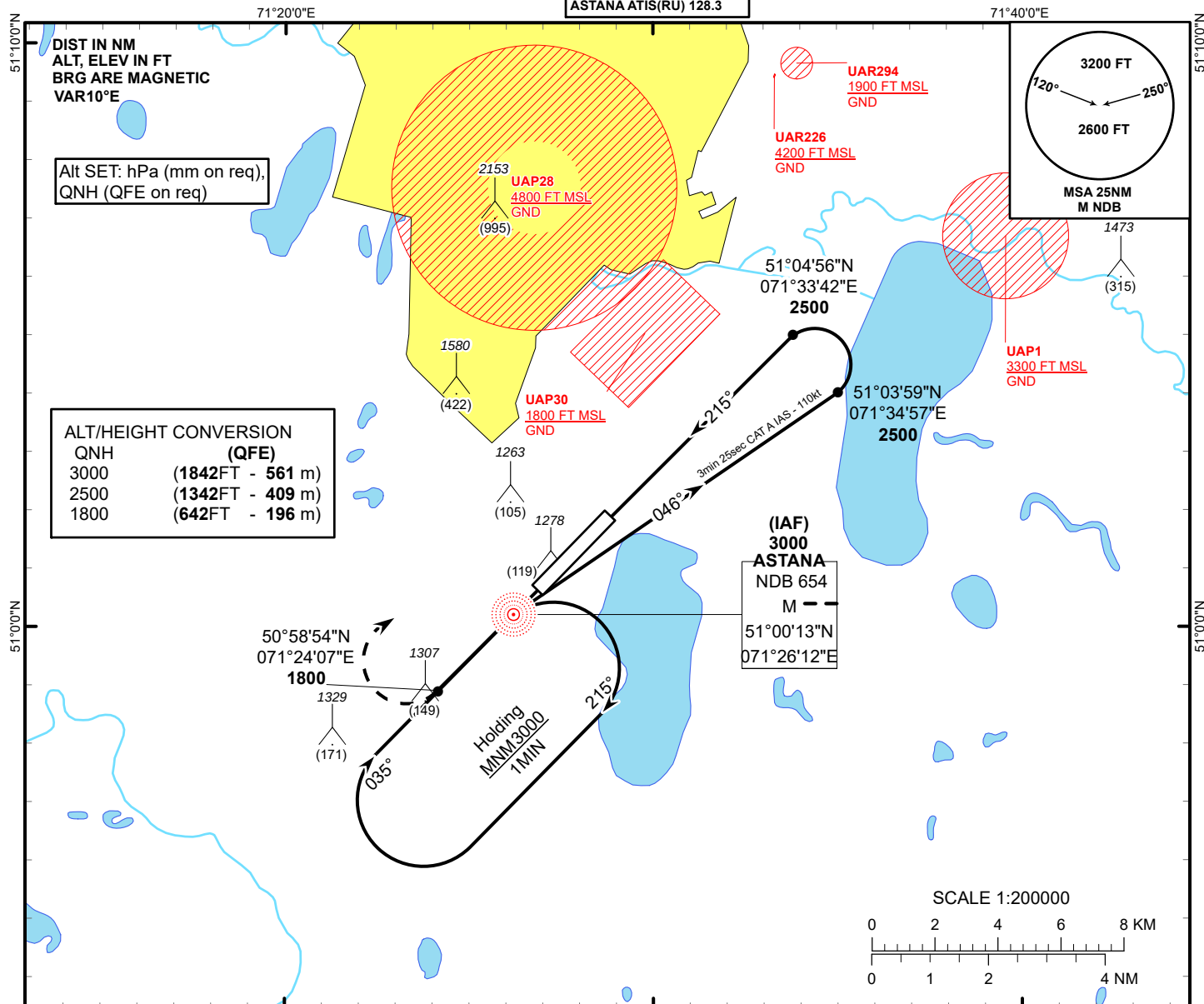
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**INSTRUMENT
APPROACH
CHART**

AERODROME ELEV **1166FT**
HEIGHTS RELATED TO
THR RWY 22 - ELEV **1158FT**

ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA GROUND 119.6
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3

**ASTANA/NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
BC NDB RWY 22**



Aircraft Category		A(HEL)				
Straight-in Approach OCA/H	BC NDB	1610(450)				
Aerodrome Operating Minima DH ft x RVR(CMV)						
BC NDB						

CHANGE: UAP30 add.

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INSTRUMENT
APPROACH
CHART

AERODROME ELEV **1166FT**
HEIGHTS RELATED TO
AD ELEV

ASTANA TOWER 135.5
ASTANA APPROACH 124.6
ASTANA RADAR 120.7
ASTANA GROUND 119.6
ASTANA ATIS(EN) 129.5
ASTANA ATIS(RU) 128.3

ASTANA/NURSULTAN NAZARBAYEV
INTERNATIONAL AIRPORT
NDB RWY 04

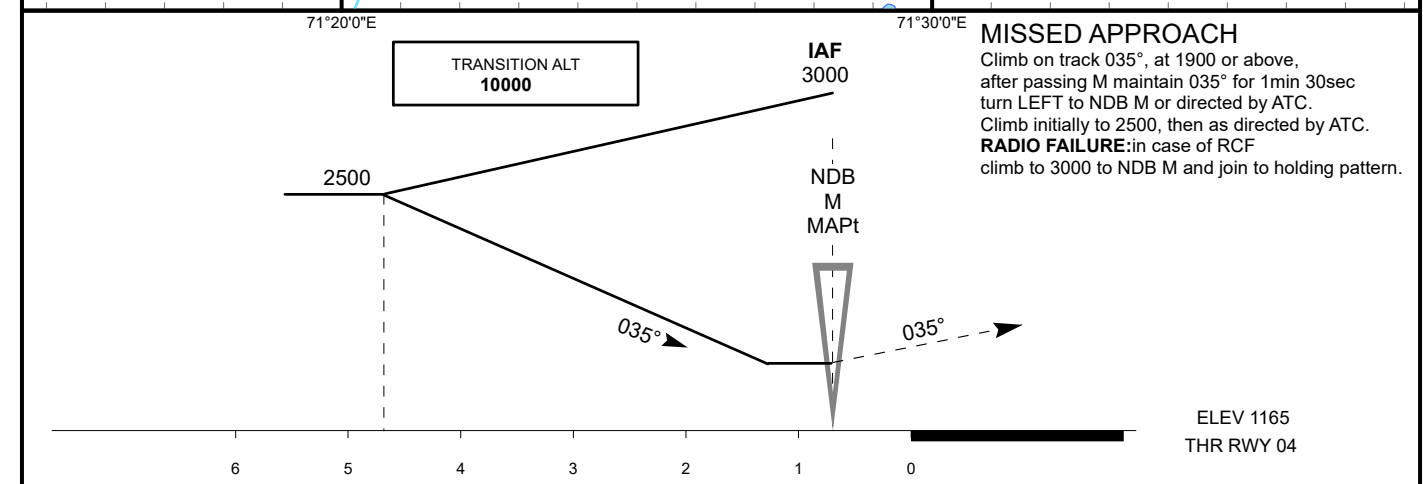
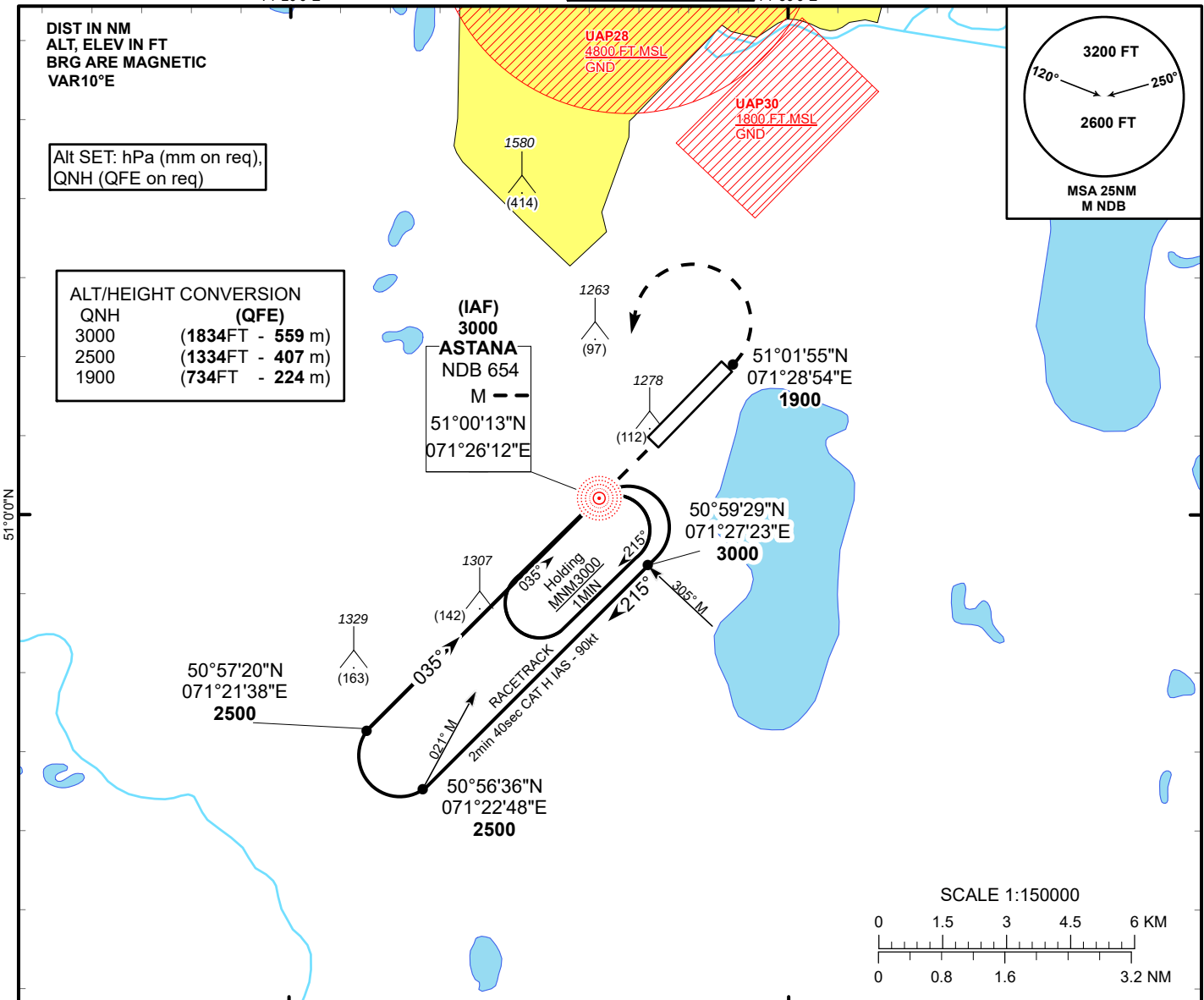
DIST IN NM
ALT, ELEV IN FT
BRG ARE MAGNETIC
VAR10°E

Alt SET: hPa (mm on req),
QNH (QFE on req)

ALT/HEIGHT CONVERSION
QNH (QFE)
3000 (1834FT - 559 m)
2500 (1334FT - 407 m)
1900 (734FT - 224 m)

51°00'N

51°00'N



Aircraft Category		A(HEL)			
Straight-in Approach OCA/H	NDB	1630(460)			
Aerodrome Operating Minima					
MDH ft x RVR(CMV)	NDB				

CHANGE: UAP30 add.

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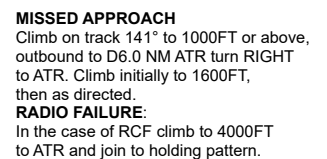
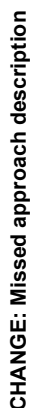
ASTANA

NURSULTAN NAZARBAYEV

INTERNATIONAL AIRPORT



ATYRAU
VOR/DME Z
RWY 14



Aircraft Category		A	B	C	D	DIST to THR	NM	5.1	4	3	2	1
Straight-in Approach OCA/H						DME ATR	NM	4.4	3.3	2.3	1.3	0.7
	VOR/DME	210(280)	210(280)	210(280)	210(280)	ALTITUDE	FT	1600	1249	930	612	293
						HEIGHT	FT	(1672)	(1321)	(1002)	(684)	(365)
Aerodrome Operating Minima MDH ft x RVR (CMV)	VOR/DME											
						GS	Kt	80	100	120	140	160
						Desc.Rate (5.2%)	ft/min	420	530	630	740	840
						FAF-MAPt (4.4 ATR)	min:sec	3:20	2:40	2:13	1:54	1:40

ATYRAU
VOR/DME Z

AERONAUTICAL DATA TABULATION

VOR/DME approach to RWY14 from ATR DVOR/DME	
Fix/point	Coordinates
(IAF) DVOR/DME ATR	47° 08' 38,20"N 051° 48' 05,40"E
(FAF) D4.4 ATR	47° 12' 28,62"N 051° 44' 50,14"E
THR RWY 14	47° 08' 01.45"N 051° 48' 36.66"E
Final approach descent angle is 3.0°	

UASI AD 2

Note: The following sections in this chapter are intentionally left blank: AD-2.10, AD-2.16, AD-2.20, AD-2.21, AD-2.22, AD-2.23

UASI AD 2.1 Aerodrome Location Indicator And Name

UASI - SATPAY

UASI AD 2.2 Aerodrome Geographical And Administrative Data

1	ARP coordinates and site at AD	473654N 0843414E At the centre of RWY
2	Direction and distance from (city)	27 km
3	Elevation/Reference temperature	1421 FT/26° C
4	Geoid undulation at AD ELEV PSN	-51 FT
5	MAG VAR/Annual Change	5° (2025)/0.02°
6	AD Administration, address, telephone, telefax, telex, AFS	Post: Authority of Airport 070009 Ust- Kamenogorsk, JSC "Ust-Kamenogorsk Airport" st. Bazhova 566 Republic of Kazakhstan Phone: +7 (7232) 778100 Fax: +7 (7232) 778100 AFS: UASKAPDU URL: www.airport-uk.kz
7	Types of traffic permitted (IFR/VFR)	IFR-VFR
8	Remarks	Nil

UASI AD 2.3 Operational Hours

1	AD Operator	NOTAM
2	Customs and immigration	HO Phone: +7 (7232) 778935
3	Health and sanitation	HO Phone: +7 (7232) 778129
4	AIS Briefing Office	HO
5	ATS Reporting Office (ARO)	HO Phone: +7 (7232) 293441 H24
6	MET Briefing Office	Phone: +7 (7232) 293483
7	ATS	See NOTAM
8	Fuelling	HO Phone: +7 (7232) 779228
9	Handling	HO
10	Security	H24
11	De-icing	HO Phone: +7 (7232) 778 662

12	Remarks	Nil

UASI AD 2.4 Handling Services And Facilities

1	Cargo-handling facilities	Handling up to 10 tonnes weight
2	Fuel/oil types	TS-1, RT
3	Fuelling facilities/capacity	The maximum amount of fuel 10,000 liters 2 fuel tanker 20000, 1000 l/min
4	De-icing facilities	De-icing Machine liquid - 1 unit
5	Hangar space for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	Nil

UASI AD 2.5 Passenger Facilities

1	Hotels	In the city Zaisan
2	Restaurants	AVBL in airport terminal
3	Transportation	Buses, taxis
4	Medical facilities	Aid post at Airport Terminal, ambulance service, hospitals in Zaisan
5	Bank and Post Office	In the city Zaisan, in the airport bank ATM
6	Tourist Office	In the city Zaisan
7	Remarks	Nil

UASI AD 2.6 Rescue And Fire Fighting Services

1	AD category for fire fighting	CAT A5
2	Rescue equipment	3 fire engines, technical and medical kit
3	Capability for removal of disabled aircraft	Removal of disabled aircraft is carried out without damage to the landing gear after delivery of the required equipment from the base aerodrome Ust-Kamenogorsk. Equipment available: towing cables, aircraft tow bars and a pneumatic wheeled boom crane with a lifting capacity of up to 35 tonnes. Estimated arrival time of equipment: up to 10 hours (in accordance with coordination procedures with the Emergency Situations Department of East Kazakhstan Region). Phone: +7 (7232) 778662 Phone: +7 (7232) 779229 Email: aviaukk.kanc@bk.ru
4	Remarks	Nil

UASI AD 2.14 Approach And Runway Lighting

RWY Designator	APCH LGT type, LEN, INTST	THR LGT colour , WBA R	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, colo ur	Remarks
1	2	3	4	5	6	7	8	9	10
11	CAT I (PALS) 900 M LIH	GRN Nil	PAPI LEFT/3°	Nil	Nil	2200m, spacing 60m, 0-2200m white, last 600m yellow	RED Nil	Nil	Nil
29	CAT I (PALS) 900 M LIH	GRN Nil	PAPI LEFT/3°	Nil	Nil	2200m, spacing 60m, 0-2200m white, last 600m yellow	RED Nil	Nil	Nil

UASI AD 2.15 Other Lighting, Secondary Power Supply

1	ABN/IBN location, characteristics and hours of operation	ABN: Nil IBN: Nil LDI: Nil
2	LDI location and LGT Anemometer location and LGT	Nil
3	TWY edge and centre line lighting	TWY A EDGE: BLU
4	Secondary power supply/switch-over time	AVBL, 1 SEC
5	Remarks	Nil

UASI AD 2.16 Helicopter Landing Area

NIL

UASI AD 2.17 ATS Airspace

1	Designation and lateral limits	SATPAY CTR 474206N 0841631E then clockwise arc with a radius of 13 NM centred on 473654N 0843414E – 473140N 0845154E – 472647N 0844843E – 473712N 0841323E - 474206N 0841631E
2	Vertical limits	7000FT AMSL/ GND
3	Airspace classification	C
4	ATS unit call sign Language(s)	SATPAY TOWER EN SATPAY VYSHKA RU
5	Transition altitude	10000 FT
6	Hours of applicability	See NOTAM
7	Remarks	Radar control is not provided in the vicinity of the aerodrome. Within the area of responsibility of the TWR controller, not more than one aircraft shall be present when operating under IFR.

UASI AD 2.18 ATS Communication Facilities

Service designation	Call sign	Frequency	SATVOIC E number(s)	Logon address	Hours of operation	Remarks
1	2	3	4	5	6	7
TWR	SATPAY TOWER EN SATPAY VYSHKA RU	122.9 MHZ Primary FREQ	Nil	Nil	See NOTAM	Nil

UASI 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/2017)	ZSN	112.3MHZ CH 70X	H24	473626N 0843545E	1400 FT	Nil	Nil

4	Remarks	The number and means of delivery of the extinguishing agent correspond to category 9 To ensure the regulatory calculation, search and rescue flight support services, at the THR of RWY 10, crew duty is provided near the main TWY-P in the area of TWY-D at a distance of 47.5 m north of the center line of the main TWY-P

UAIL AD 2.7 Seasonal Availability - Clearing

1	Types of clearing equipment	1 rotor, 6 combined watering machine, 1 shaft pusher For removal of ice from aerodrome surfaces, the liquid anti-icing agent "Green Way F65" (grade B) is used.
2	Clearance priorities	1. RWY 2. TWY 3. Stands
3	Remarks	Nil

UAIL AD 2.8 Aprons, Taxiways And Check Locations/Positions Data

1	Apron surface and strength	STANDS		SURFACE	STRENGTH
		1, 1A, 1B, 2, 3		CONC+ASPH	PCN 80/F/C/W/U
		19,19A		CONC+ASPH	PCN 42/F/C/W/T
		4-9 (A/B/L/R)		CONC+ASPH	PCN 63/F/C/W/T
		17-18		CONC+ASPH	PCN 21/F/C/W/T
		20-22		CONC+ASPH	PCN 47/F/C/W/T
		54-62		CONC+ASPH	PCN 10/F/C/Y/T
2	Taxiway width, surface and strength	TWY	WIDTH (M)	SURFACE	STRENGTH
		MAIN P	23	REINF+CONC	PCN 56/R/A/X/U
		A	23	REINF+CONC	PCN 56/R/A/X/U
		B	21	REINF+CONC	PCN 22/R/A/X/T
		C	18	CONC+ASPH	PCN 16/F/C/Y/T
		D	23	REINF+CONC	PCN 56/R/A/X/U
		E	14	CONC+ASPH	PCN 16/F/C/Y/T
		K	14	REINF+CONC	PCN 22/R/A/X/T
		L	14	REINF+CONC	PCN 22/R/A/X/T
		H	30	CONC+ASPH	PCN 63/F/C/W/T
3	Altimeter checkpoint location and elevation	Stand: №1 – 419m/1374FT 422153N 0692934E			
4	VOR checkpoints	Nil			
5	INS checkpoints	Nil			
6	Remarks	Simultaneous tax ACFT on TWY-B and TWY-E from RWY to main TWY-P is prohibited. Tax in/out from stand 20, 21, 22 for ACFT with wingspan more than 42m via follow me car. ACFT stand 1B AVBL for ACFT types A320, A321, B737-900 allowed for ACFT wingspan less than 35,8m.			

UAII 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 RWY, guidance sign designating taxiways and apron
2	RWY and TWY markings and LGT	Markings of thresholds, touchdown zones, centre line, fixed distance markers, RWY edges, RWY designations, taxi holding positions, taxiway centre lines
3	Stop bars	Nil
4	Other runway protection measures	Nil
5	Remarks	Taxiing on TWY B and TWY E in night-time is forbidden due to absence of edge lights

UAII AD 2.10 Aerodrome Obstacles

Obstacles penetrating obstacle limitation surfaces of the aerodrome.

Obstacle identification	Type of obstacle	Location of obstacle	Elevation / Height (ft)	Marking / Type, Colour	Remarks
a	b	c	d	e	f
In Area 2					
II19AKT0090	POLE	422215.08N 0692739.54E	1394/NIL	N/NIL/NIL	
II22AKT0001	BUILDING	422142.22N 0692956.71E	1413/NIL	N/F/R	
II22AKT0003	BUILDING	422141.89N 0692958.70E	1418/29	N/F/R	
II22AKT0007	BUILDING	422140.52N 0693000.74E	1423/32	N/F/R	
II22AKT0009	BUILDING	422140.96N 0693003.73E	1425/33	N/F/R	
II22AKT0095	BUILDING	422123.23N 0693016.14E	1453/44	N/F/R	
II22AKT0102	BUILDING	422128.35N 0693002.19E	1429/29	N/F/R	
II22AKT0107	BUILDING	422129.82N 0692956.61E	1423/28	N/F/R	
II23AKT0088	ANTENNA	422210.62N 0692747.80E	1355/NIL	Y/NIL/NIL	
II23AKT0117	BUILDING	422209.64N 0692745.78E	1331/NIL	Y/F/R	
II23AKT0175	NAVAID	422209.81N 0692750.91E	1352/NIL	Y/NIL/NIL	
II23AKT0258	NAVAID	422201.78N 0692731.98E	1322/NIL	Y/F/R	
II23AKT0296	BUILDING	422139.80N 0693001.99E	1428/NIL	N/F/R	

UAUR AD 2

Note: The following sections in this chapter are intentionally left blank: AD-2.10, AD-2.14, AD-2.20, AD-2.21, AD-2.22, AD-2.23

UAUR AD 2.1 Aerodrome Location Indicator And Name

UAUR - ARKALYK

UAUR AD 2.2 Aerodrome Geographical And Administrative Data

1	ARP coordinates and site at AD	501907N 0665709E At the centre of RWY
2	Direction and distance from (city)	150°, 8.9 NM from Arkalyk
3	Elevation/Reference temperature	1273 FT/26° C
4	Geoid undulation at AD ELEV PSN	-38 FT
5	MAG VAR/Annual Change	10° E (2024) / 0.05°
6	AD Administration, address, telephone, telefax, telex, e-mail address, AFS, website address	Post: Airport Administration Republic of Kazakhstan, 110300 Kostanay Region, Arkalyk City Abai Street, 29 Phone: +7 (7142) 576223 Phone: +7 (7142) 576200 Fax: +7 (7142) 576018 AFS: UAURAPDU Email: info@ksnaipor.kz Email: as-kst@mail.ru Email: jasikej@mail.ru
7	Types of traffic permitted (IFR/VFR)	IFR-VFR
8	Remarks	Nil

UAUR AD 2.3 Operational Hours

1	AD Operator	ANY 03:00 - 15:00 UTC
2	Customs and immigration	Nil
3	Health and sanitation	ANY 03:00 - 15:00
4	AIS Briefing Office	Nil
5	ATS Reporting Office (ARO)	Nil
6	MET Briefing Office	ANY 03:00 - 15:00 UTC
7	ATS	ANY 03:00 - 15:00 UTC
8	Fuelling	Nil
9	Handling	ANY 03:00 - 15:00
10	Security	H24
11	De-icing	ANY 03:00 - 15:00
12	Remarks	Nil

UAUR AD 2.4 Handling Services And Facilities

1	Cargo-handling facilities	Hyundai Mighty EX5 baggage transport vehicle – 1 unit.
2	Fuel/oil types	Nil
3	Fuelling facilities/capacity	Nil
4	De-icing facilities	Tempest-1 de-icing vehicle – 1 unit.
5	Hangar space for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	GD 150 self-propelled diesel towing tractor (China Diesel, 150 kN) – 1 unit; “Termo” mobile cabin on PTS-4 chassis (technical emergency kit) – 1 unit; Mobile power supply unit 2 × 120 kVA, 400 Hz – 1 unit; GS280 air start unit – 1 unit; Ural NEXT 4320-72E universal engine heater – 1 unit; FAW aerodrome sewage service vehicle – 1 unit; FAW water service vehicle – 1 unit; AC support vehicle type JAC T6 – 1 unit; Aviation Security Service (AVSEC) support vehicle type JAC T6 – 1 unit; Special Transport Service support vehicle type JAC T6 – 1 unit; Bird control vehicle type JAC JS4 – 1 unit.

UAUR AD 2.5 Passenger Facilities

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

UAUR AD 2.6 Rescue And Fire Fighting Services

1	AD category for fire fighting	CAT A5
2	Rescue equipment	AA-8.5-0/70 aerodrome fire fighting vehicle – 2 units.
3	Capability for removal of disabled aircraft	Nil
4	Remarks	UAZ 8-seat all-terrain vehicle for the mobile command post (ASR) – 1 unit; “Termo” medical van trailer with equipment for deployment of a medical camp (stretchers, splints, tents) – 1 unit; JAC Sunray 6C ambulance vehicle (Class B) equipped with medical equipment – 1 unit.

UAUR AD 2.7 Seasonal Availability - Clearing

1	Types of clearing equipment	KAMAZ snowplough-sweeper and washing vehicle – 2 units; Belarus 82.1 tractor – 2 units; Ural SSR-1 rotary snow blower – 1 unit.
2	Clearance priorities	Clearance priorities: 1. RWY 2. TWY 3. Stands 4. Apron 2, 2A,1
3	Remarks	Cleaning of access roads to radio navigation and communication facilities, internal aerodrome roads and other works.

UAUR AD 2.8 Aprons, Taxiways And Check Locations/Positions Data

1	Apron surface and strength	STANDS		SURFACE	STRENGTH
		1-2		CONC+ASPH	PCN 25/F/C/W/T
2	Taxiway width, surface and strength	TWY	WIDTH (M)	SURFACE	STRENGTH
		A	16	CONC+ASPH	PCN 25/F/C/W/T
3	Altimeter checkpoint location and elevation	Nil			
4	VOR checkpoints	Nil			
5	INS checkpoints	Nil			
6	Remarks	Nil			

UAUR 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	Runway entry signs and taxiway designation signs.
2	RWY and TWY markings and LGT	Runway threshold, touchdown zone, centre line, runway edge, runway designation, taxi-holding position and taxiway centre line markings.
3	Stop bars	Nil
4	Other runway protection measures	Nil
5	Remarks	Nil

UAUR AD 2.10 Aerodrome Obstacles

NIL

UAUR AD 2.11 Meteorological Information Provided

1	Associated MET Office	Meteorological service at Arkalyk aerodrome.
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation: Periods of validity	Meteorological service at Arkalyk aerodrome, 09 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	Surface analysis; AT850, AT700, AT500, AT400, AT300, AT250, AT200; prognostic charts of wind and temperature at flight levels (FL); maximum wind; tropopause; prognostic charts P850, P700, P500, P400, P300, P250, P200; SWH, SWM WAFC, SWL Kazakhstan.
8	Supplementary equipment AVBL for providing information	Nil
9	ATS units provided with information	Briefing, TWR
10	Additional information	Nil

UAUR AD 2.12 Runway Physical Characteristics

Designations 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
08	090.80	2500 X 45	PCN 25/F/C/ W/T CONC+ASPH	501907.92N 0665605.39E -38.0 FT	THR 1272 M	1.2%
26	270.80	2500 X 45	PCN 25/F/C/ W/T CONC+ASPH	501906.84N 0665811.77E -38.0 FT	THR 1268 M	1.2%

SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	RESA dimension s (M)	Location and description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
Nil	240 X 150	2800 X 300	90 X 150	Nil	AVBL	Turn pad length – 116.65 m; total width of the runway turn pad – 77.7 m. See AIP section AD 2.24.1..
Nil	240 X 150	2800 X 300	90 X 150	Nil	AVBL	Turn pad length – 116.65 m; total width of the runway turn pad – 77.7 m. See AIP section AD 2.24.1.

UAUR AD 2.13 Declared Distances

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
08	2500	2800	2500	2500	Nil
26	2500	2800	2500	2500	Nil

UAUR AD 2.14 Approach And Runway Lighting

NIL

UAUR 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
3	TWY edge and centre line lighting	TWY A EDGE: BLU
4	Secondary power supply/switch-over time	AVBL, 1 sec
5	Remarks	Nil

UAUR AD 2.16 Helicopter Landing Area

Helicopter take-off and landing conducted in helicopter mode are performed from/on the runway (at the intersection area of the taxiway and the runway).

UAUR AD 2.17 ATS Airspace

1	Designation and lateral limits	ARKALYK CTR Circle with a radius of 16 NM centred on point 501907N 0665708E.
2	Vertical limits	6000FT ALT/GND
3	Airspace classification	C
4	ATS unit call sign Language(s)	ARKALYK TOWER EN ARKALYK VYSHKA RU
5	Transition altitude	10000 FT
6	Hours of applicability	See NOTAM
7	Remarks	Nil

UAUR AD 2.18 ATS Communication Facilities

Service designation	Call sign	Frequen cy	SATVOIC E number(s)	Logon address	Hours of operation	Remarks
1	2	3	4	5	6	7
TWR	ARKALYK TOWER (EN) ARKALYK VYSHKA (RU)	134,3 MHZ	Nil	Nil	See NOTAM	Nil
ATIS	ARKALYK ATIS (EN) ARKALYK ATIS (RU)	126,8 MHZ	Nil	Nil	HO	ATIS information is updated only during aerodrome operational hours. Outside the published operational hours, ATIS information is not updated.

UAUR 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	Elevati on of DME trans mittin g antenn a	Servic e volum e radius from the GBAS refere nce point	Rema rks
1	2	3	4	5	6	7	8
DVOR/DME (10°/2014)	ARK	113 MHZ CH 77X	H24	501904N 0670118E	1300 FT	Nil	Nil

UAUR AD 2.20 Local Aerodrome Regulations

NIL

UAUR AD 2.21 Noise Abatement Procedures

NIL

UAUR AD 2.22 Flight procedures.

NIL

UAUR AD 2.23 Additional Information

NIL

UAUR AD 2.24 Charts Related To An Aerodrome

Name	Page
Aerodrome Chart ICAO	UAUR AD 2.24.1-1
Aerodrome Ground Movement and Parking Chart ICAO	UAUR AD 2.24.3-1
Area Chart - ICAO	UAUR AD 2.24.6-1
Standard Departure Chart Instrument (SID) - RWY 08 ICAO	UAUR AD 2.24.7-1-1
Standard Departure Chart Instrument (SID) - RWY 26 ICAO	UAUR AD 2.24.7-2-1
Standard Departure Chart Instrument (SID) - RWY 08 ICAO	UAUR AD 2.24.7-3-1
Standard Departure Chart Instrument (SID) - RWY 26 ICAO	UAUR AD 2.24.7-4-1
Standard Arrival Chart Instrument (STAR) - RWY 08 ICAO	UAUR AD 2.24.9-1-1
Standard Arrival Chart Instrument (STAR) - RWY 26 ICAO	UAUR AD 2.24.9-2-1
Standard Arrival Chart Instrument (STAR) - RWY 08 ICAO	UAUR AD 2.24.9-3-1
Standard Arrival Chart Instrument (STAR) - RWY 26 ICAO	UAUR AD 2.24.9-4-1
Standard Arrival Chart Instrument (STAR) - RWY 08 ICAO	UAUR AD 2.24.9-5-1
Standard Arrival Chart Instrument (STAR) - RWY 26 ICAO	UAUR AD 2.24.9-6-1
Instrument Approach Chart – VOR/DME - Z RWY 08 ICAO	UAUR AD 2.24.11-1-1
Instrument Approach Chart – VOR/DME - Z RWY 26 ICAO	UAUR AD 2.24.11-2-1
Instrument Approach Chart – VOR/DME - Y RWY 08 ICAO	UAUR AD 2.24.11-3-1
Instrument Approach Chart – VOR/DME - Y RWY 26 ICAO	UAUR AD 2.24.11-4-1
Instrument Approach Chart - RNP RWY 08 ICAO	UAUR AD 2.24.11-5-1
Instrument Approach Chart - RNP RWY 26 ICAO	UAUR AD 2.24.11-6-1
Instrument Approach Chart – VOR/DME RWY 08 ICAO	UAUR AD 2.24.11-7-1
Instrument Approach Chart – VOR/DME RWY 26 ICAO	UAUR AD 2.24.11-8-1
Visual Approach chart – ICAO	UAUR AD 2.24.12-1

UAUR AD 2.25 Visual segment surface (VSS) penetrations

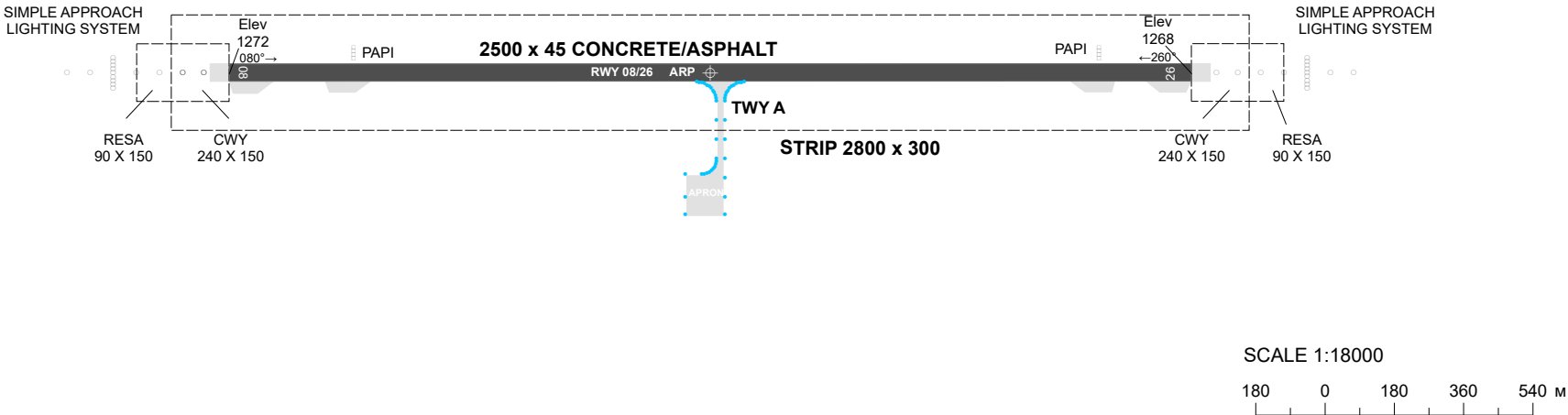
No penetrations

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RWY	DIRECTION (TRUE)	THR	GEOID UNDULATION	BEARING STRENGTH
08	090.8°	50°19'07.92"N 066°56'05.39"E	- 38	25 F/C/W/T
26	270.8°	50°19'06.84"N 066°58'11.77"E		

VAR 10°E (2024)
ANNUAL RATE
OF CHANGE 0.05°E

ELEV, HGT IN FEET
DIMENSIONS IN METERS
BRG ARE MAG



SCALE 1:18000
180 0 180 360 540 M

MARKING, LIGHTING RWY 08/26

To be developed

CHANGE: New Chart

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**AIP
KAZAKHSTAN**

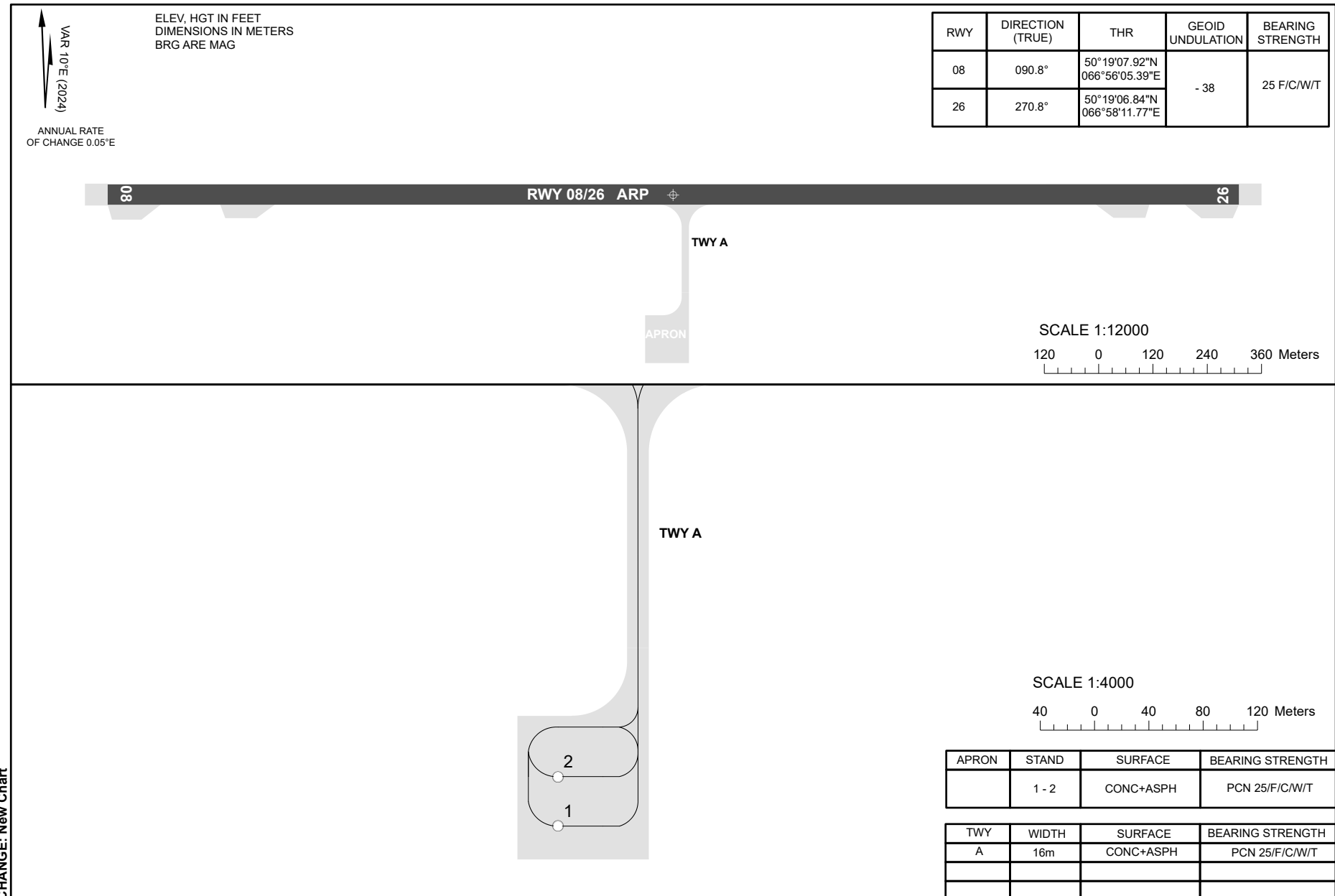
UAUR AD 2.24.3 - 1
09 JUL 2026

AERODROME GROUND MOVEMENT AND PARKING CHART - ICAO

APRON ELEV 1273 FT

TWR 129.3

ARKALYK



CHANGE: New Chart

Kazaeronavigatsia

AIRAC AMDT 007/2026

ARKALYK

STANDS CHARACTERISTICS

To be developed

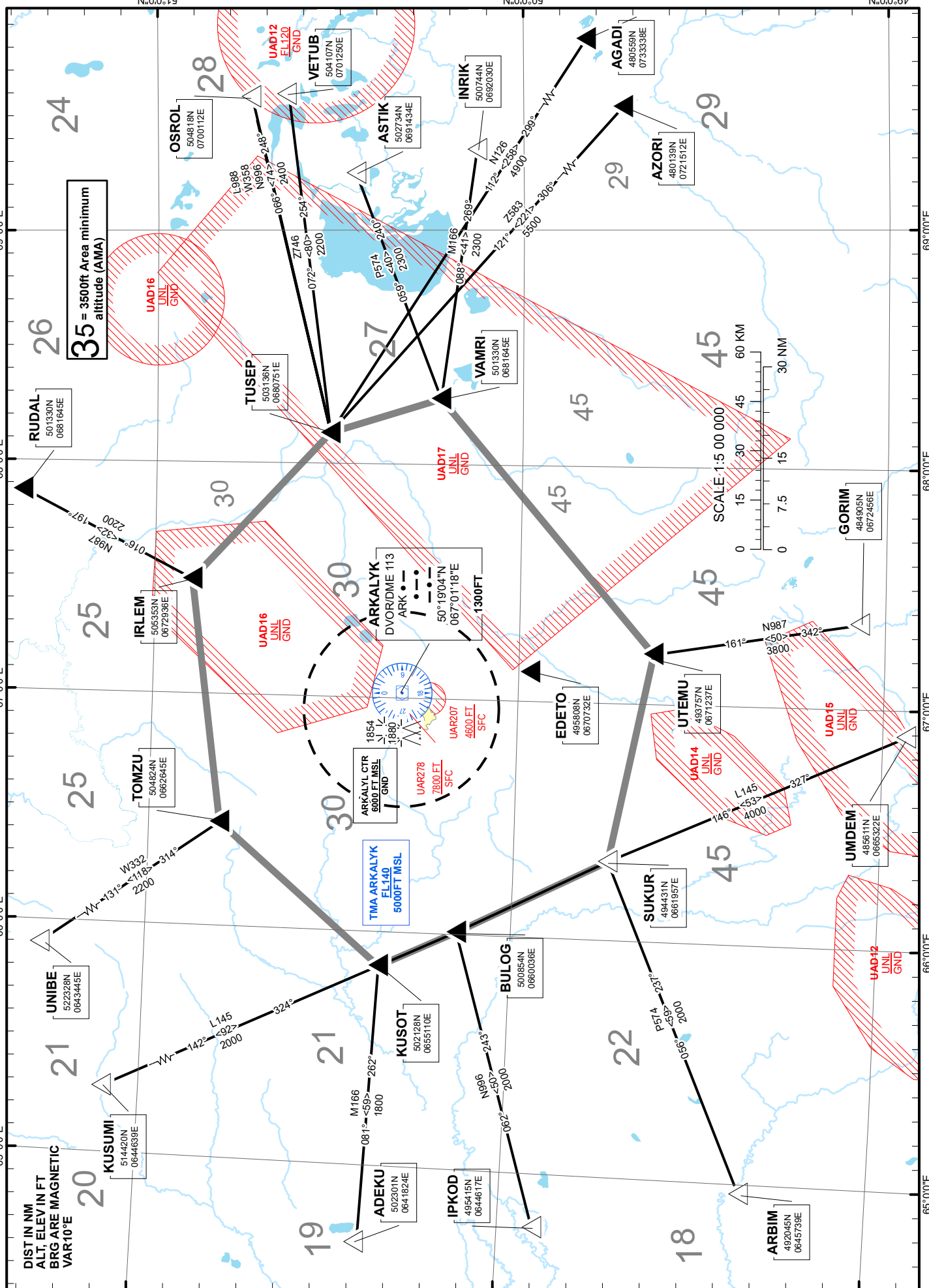
AREA
CHART - ICAO

ARKALYK TOWER 129.3
ARKALYK ATIS (EN) 126.8
ARKALYK ATIS (RU) 126.8

TMA ARKALYK

CHANGE: New chart.

DIST IN NM
ALT. ELEV IN FT
BRG ARE MAGNETIC
VAR 10°E



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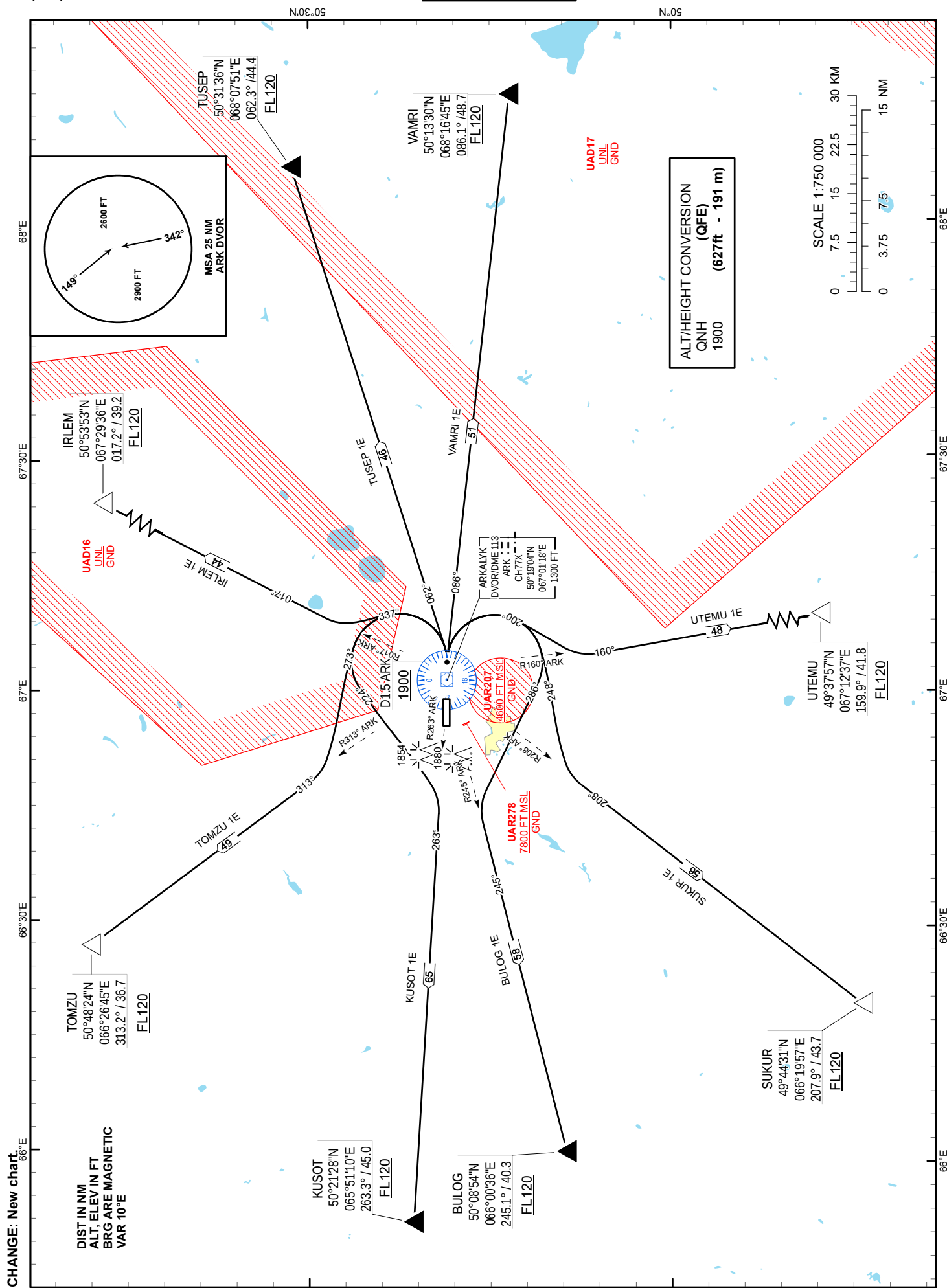
STANDARD DEPARTURE
CHART - INSTRUMENT
(SID) - ICAO

TRANSITION ALTITUDE
10000 FT

ARKALYK TOWER 129.3
ARKALYK ATIS (EN) 126.8
ARKALYK ATIS (RU) 126.8

BULOG1E, IRLEM1E, KUSOT1E,
SUKUR1E, TOMZU1E, TUSEP1E,
UTEMU1E, VAMRI1E

ARKALYK
RWY 08



Standard Departure Routes - Instrument (SID) RWY 08

IRLEM 1E

After take-off climb straight ahead to 1900FT or above. At 1.5NM ARK, LEFT on track 337° until intercept R017°ARK, then proceed on track 017° to IRLEM (R017.2° D39.2NM ARK).
Cross IRLEM at FL120 or above.

TUSEP 1E

After take-off climb straight ahead to 1900FT or above. At 1.5NM ARK, LEFT on track 062° to TUSEP (R062.3° D44.4NM ARK).
Cross TUSEP at FL120 or above.

VAMRI 1E

After take-off climb straight ahead to 1900FT or above. At 1.5NM ARK, RIGHT on track 086° to VAMRI (R086.1° D48.7NM ARK).
Cross VAMRI at FL120 or above.

UTEMU 1E

After take-off climb straight ahead to 1900FT or above. At 1.5NM ARK, RIGHT on track 200° until intercept R160°ARK, then proceed on track 160° to UTEMU (R159.9° D41.8NM ARK).
Cross UTEMU at FL120 or above.

SUKUR 1E

After take-off climb straight ahead to 1900FT or above. At 1.5NM ARK, RIGHT on track 248° until intercept R208°ARK, then proceed on track 208° to SUKUR (R207.9° D43.7NM ARK).
Cross SUKUR at FL120 or above.

BULOG 1E

After take-off climb straight ahead to 1900FT or above. At 1.5NM ARK, RIGHT on track 286° until intercept R245°ARK, then proceed on track 245° to TUSEP (R245.1° D40.3NM ARK).
Cross BULOG at FL120 or above.

KUSOT 1E

After take-off climb straight ahead to 1900FT or above. At 1.5NM ARK, LEFT on track 224° until intercept R263°ARK, then proceed on track 263° to KUSOT (R263.3° D45.0NM ARK).
Cross KUSOT at FL120 or above.

TOMZU 1E

After take-off climb straight ahead to 1900FT or above. At 1.5NM ARK, LEFT on track 273° until intercept R313°ARK, then proceed on track 313° to TOMZU (R313.2° D36.7NM ARK).
Cross TOMZU at FL120 or above.

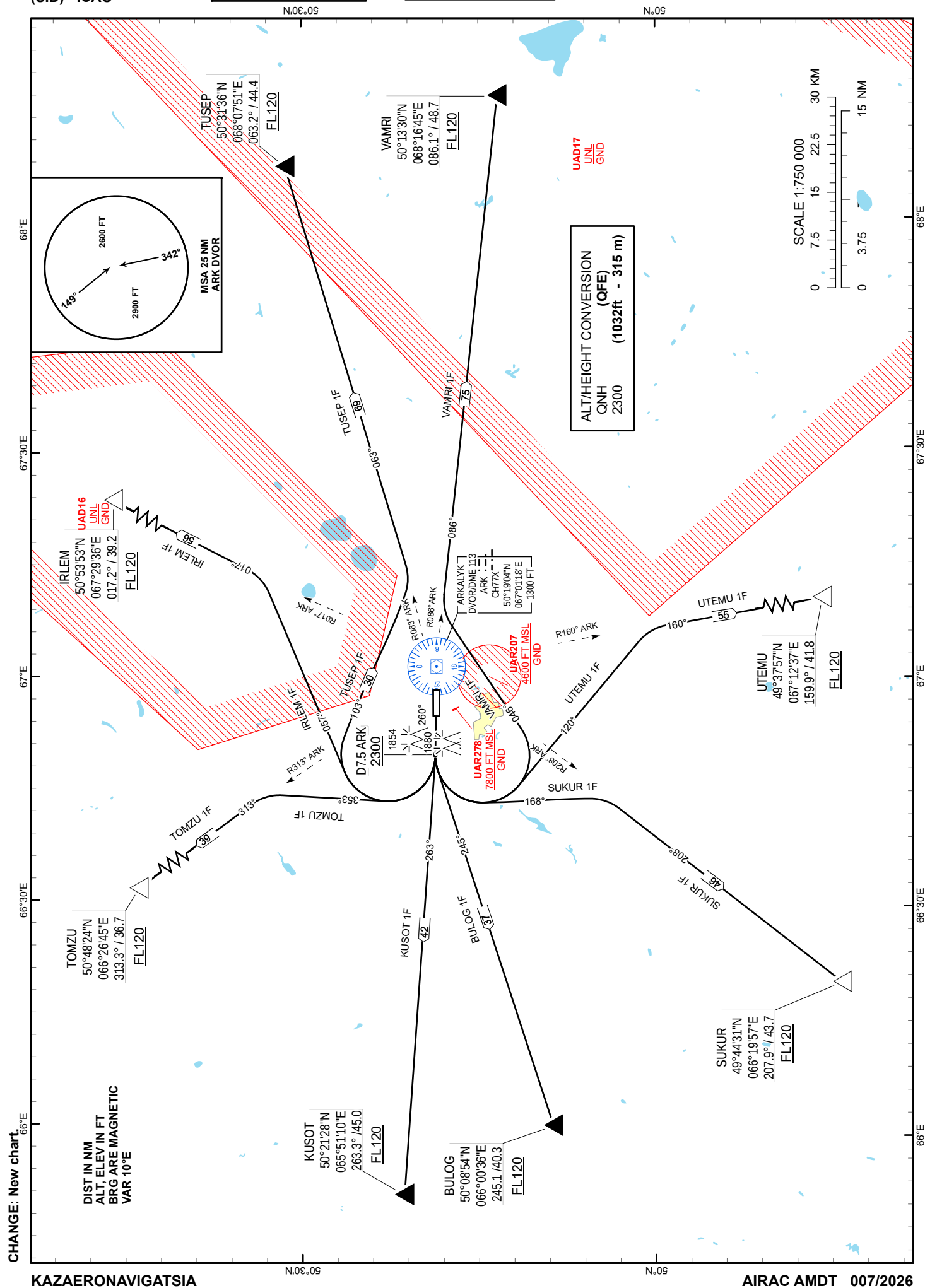
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

TRANSITION ALTITUDE
10000 FT

ARKALYK TOWER 129.3
ARKALYK ATIS (EN) 126.8
ARKALYK ATIS (RU) 126.8

BULOG1F, IRLEM1F, KUSOT1F,
SUKUR1F, TOMZU1F, TUSEP1F,
UTEMU1F, VAMRI1F

ARKALYK
RWY 26



Standard Departure Routes - Instrument (SID) RWY 26

IRLEM 1F

After take-off climb straight ahead to 2300FT or above. At 7.5NM ARK, turn RIGHT on track 057° until intercept R017°ARK, then proceed on track 017° to IRLEM (R017.2° D39.2NM ARK).
Cross IRLEM at FL120 or above.

TUSEP 1F

After take-off climb straight ahead to 2300FT or above. At 7.5NM ARK, turn RIGHT on track 103° until intercept R063°ARK, then proceed on track 063° to TUSEP (R063.2° D44.4NM ARK).
Cross TUSEP at FL120 or above.

VAMRI 1F

After take-off climb straight ahead to 2300FT or above. At 7.5NM ARK, turn LEFT on track 046° until intercept R086°ARK, then proceed on track 086° to VAMRI (R086.1° D48.7NM ARK).
Cross VAMRI at FL120 or above.

UTEMU 1F

After take-off climb straight ahead to 2300FT or above. At 7.5NM ARK, turn LEFT on track 120° until intercept R160°ARK, then proceed on track 160° to UTEMU (R159.9° D41.8NM ARK).
Cross UTEMU at FL120 or above.

SUKUR 1F

After take-off climb straight ahead to 2300FT or above. At 7.5NM ARK, turn LEFT on track 168° until intercept R208°ARK, then proceed on track 208° to SUKUR (R207.9° D43.7NM ARK).
Cross SUKUR at FL120 or above.

BULOG 1F

After take-off climb straight ahead to 2300FT or above. At 7.5NM ARK, turn LEFT on track 245° to BULOG (R245.1° D40.3NM ARK).
Cross BULOG at FL120 or above.

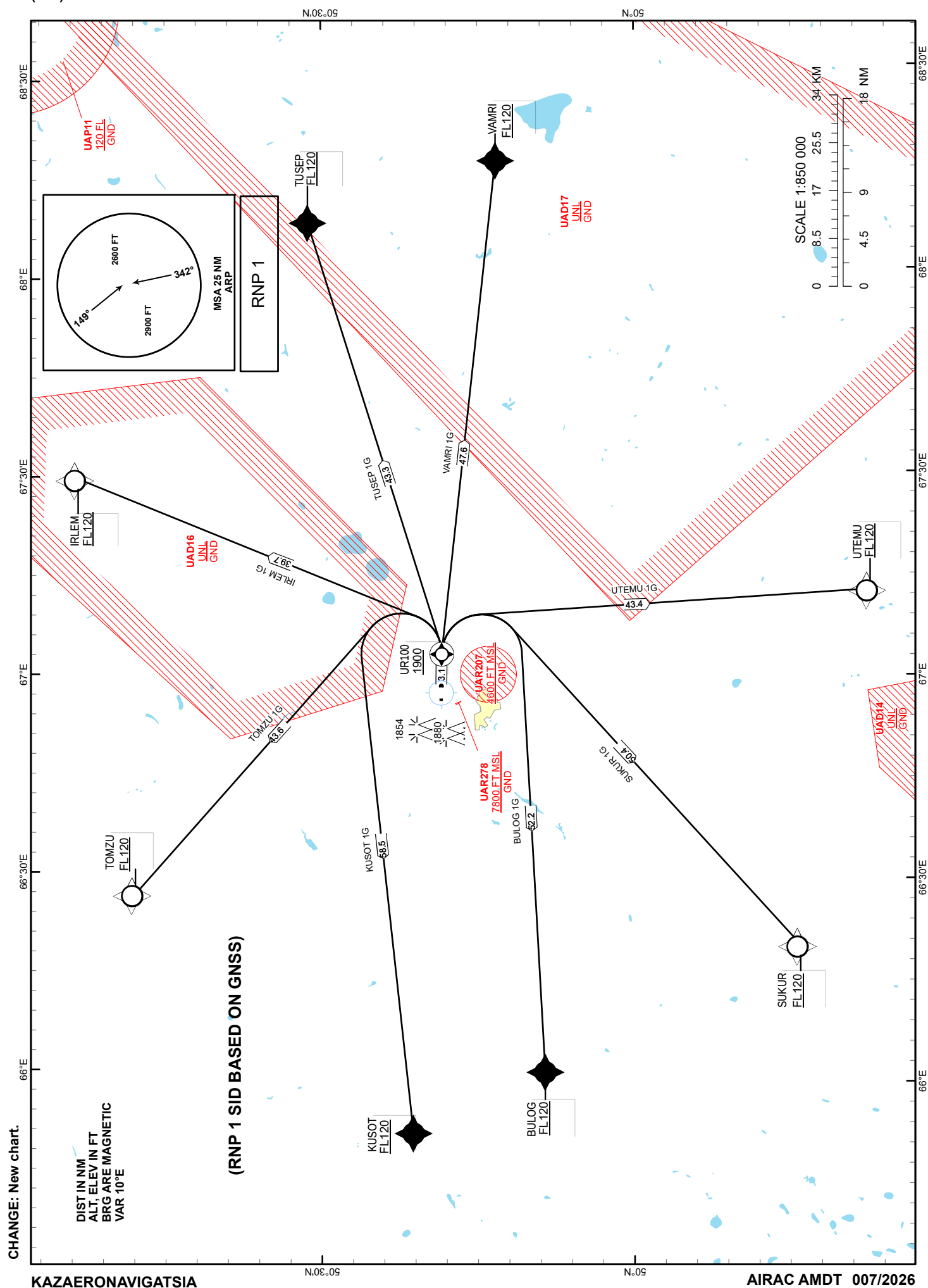
KUSOT 1F

After take-off climb straight ahead to 2300FT or above. At 7.5NM ARK, turn RIGHT on track 263° to KUSOT (R263.3° D45.0NM ARK).
Cross KUSOT at FL120 or above.

TOMZU 1F

After take-off climb straight ahead to 2300FT or above. At 7.5NM ARK, turn RIGHT on track 353° until intercept R313°ARK, then proceed on track 313° to TOMZU (R313.3° D36.7NM ARK).
Cross TOMZU at FL120 or above.

ARKALYK
RWY 08



TABULAR DESCRIPTION											RWY08
BULOG 1G											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	CF	UR100	Y	080(090.8)	+10.4	3.1	-	+1900	-	1.9	RNP 1
020	DF	BULOG	-	-	+10.4	-	R	+FL120	-	1.9	RNP 1
IRLEM 1G											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	CF	UR100	Y	080(090.8)	+10.4	3.1	-	+1900	-	1.9	RNP 1
020	DF	IRLEM	-	-	+10.4	-	L	+FL120	-	1.9	RNP 1
KUSOT 1G											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	CF	UR100	Y	080(090.8)	+10.4	3.1	-	+1900	-	1.9	RNP 1
020	DF	KUSOT	-	-	+10.4	-	L	+FL120	-	1.9	RNP 1
SUKUR 1G											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	CF	UR100	Y	080(090.8)	+10.4	3.1	-	+1900	-	1.9	RNP 1
020	DF	SUKUR	-	-	+10.4	-	R	+FL120	-	1.9	RNP 1
TOMZU 1G											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	CF	UR100	Y	080(090.8)	+10.4	3.1	-	+1900	-	1.9	RNP 1
020	DF	TOMZU	-	-	+10.4	-	L	+FL120	-	1.9	RNP 1
TUSEP 1G											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	CF	UR100	Y	080(090.8)	+10.4	3.1	-	+1900	-	1.9	RNP 1
020	DF	TUSEP	-	-	+10.4	-	L	+FL120	-	1.9	RNP 1
UTEMU 1G											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	CF	UR100	Y	080(090.8)	+10.4	3.1	-	+1900	-	1.9	RNP 1
020	DF	UTEMU	-	-	+10.4	-	R	+FL120	-	1.9	RNP 1
VAMRI 1G											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	CF	UR100	Y	080(090.8)	+10.4	3.1	-	+1900	-	1.9	RNP 1
020	DF	VAMRI	-	-	+10.4	-	R	+FL120	-	1.9	RNP 1

WAYPOINT COORDINATES		
WPT	COORD	
BULOG	500854.00N	0660036.00E
DER	501906.84N	0665811.75E
IRLEM	505353.00N	0672936.00E
KUSOT	502128.00N	0655110.00E
SUKUR	494431.00N	0661957.00E
TOMZU	504824.00N	0662645.00E
TUSEP	503136.00N	0680751.00E
UR100	501904.32N	0670259.19E
UTEMU	493757.00N	0671237.00E
VAMRI	501330.00N	0681645.00E

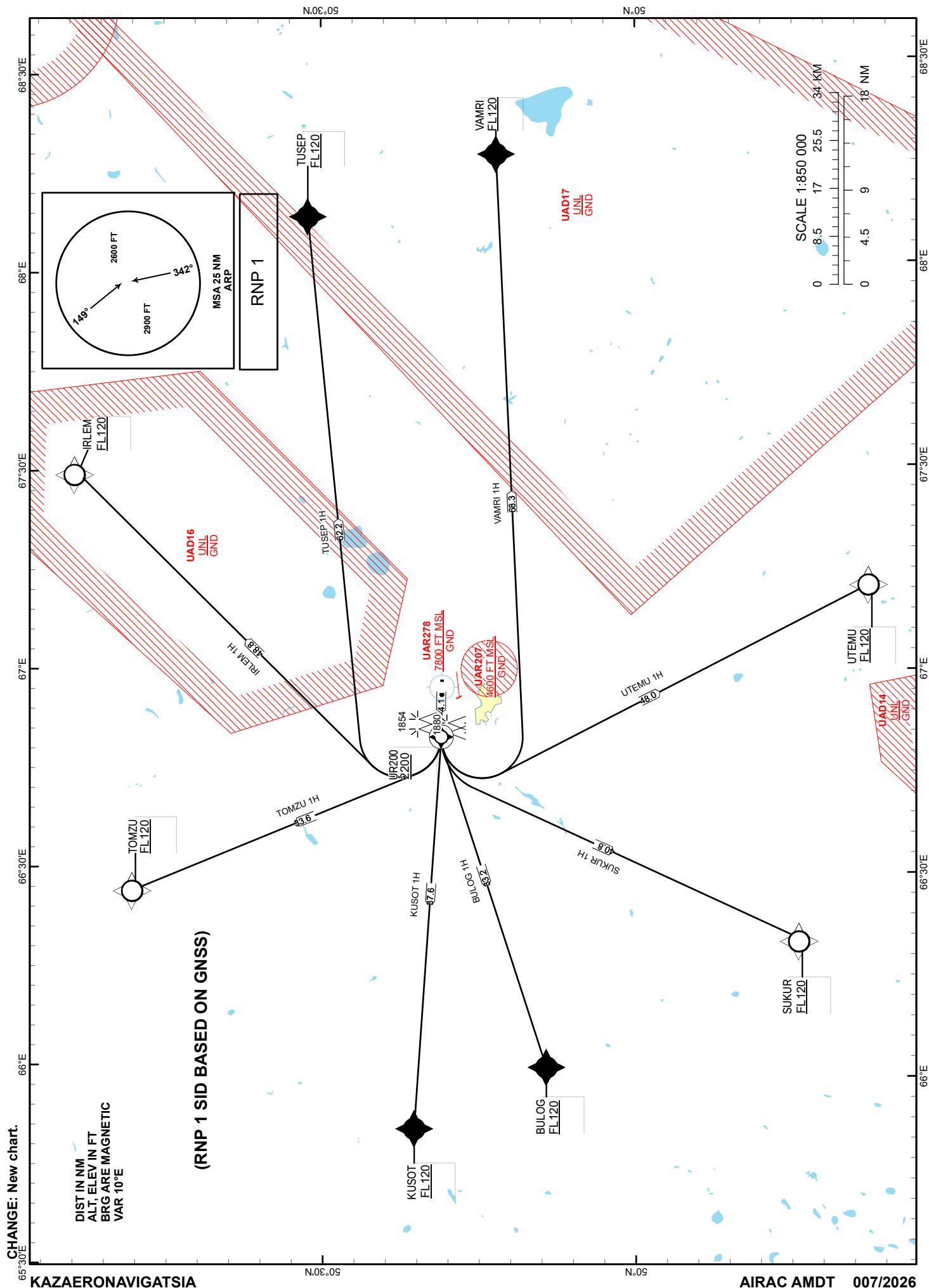
STANDARD DEPARTURE
CHART - INSTRUMENT
(SID) - ICAO

TRANSITION ALTITUDE
10000 FT

ARKALYK TOWER 129.3
ARKALYK ATIS (EN) 126.8
ARKALYK ATIS (RU) 126.8

BULOG1H, IRLEM1H, KUSOT1H,
SUKUR1H, TOMZU1H, TUSEP1H,
UTEMU1H, VAMRI1H

ARKALYK
RWY 26



TABULAR DESCRIPTION											RWY26
BULOG 1H											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	CF	UR200	Y	260(270.8)	+10.4	4.1	-	+2200	-	2.1	RNP 1
020	DF	BULOG	-	-	+10.4	-	L	+FL120	-	1.9	RNP 1
IRLEM 1H											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	CF	UR200	Y	260(270.8)	+10.4	4.1	-	+2200	-	2.1	RNP 1
020	DF	IRLEM	-	-	+10.4	-	R	+FL120	-	1.9	RNP 1
KUSOT 1H											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	CF	UR200	Y	260(270.8)	+10.4	4.1	-	+2200	-	2.1	RNP 1
020	DF	KUSOT	-	-	+10.4	-	-	+FL120	-	1.9	RNP 1
SUKUR 1H											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	CF	UR200	Y	260(270.8)	+10.4	4.1	-	+2200	-	2.1	RNP 1
020	DF	SUKUR	-	-	+10.4	-	L	+FL120	-	1.9	RNP 1
TOMZU 1H											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	CF	UR200	Y	260(270.8)	+10.4	4.1	-	+2200	-	2.1	RNP 1
020	DF	TOMZU	-	-	+10.4	-	R	+FL120	-	1.9	RNP 1
TUSEP 1H											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	CF	UR200	Y	260(270.8)	+10.4	4.1	-	+2200	-	2.1	RNP 1
020	DF	TUSEP	-	-	+10.4	-	R	+FL120	-	1.9	RNP 1
UTEMU 1H											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	CF	UR200	Y	260(270.8)	+10.4	4.1	-	+2200	-	2.1	RNP 1
020	DF	UTEMU	-	-	+10.4	-	L	+FL120	-	1.9	RNP 1
VAMRI 1H											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	CF	UR200	Y	260(270.8)	+10.4	4.1	-	+2200	-	2.1	RNP 1
020	DF	VAMRI	-	-	+10.4	-	L	+FL120	-	1.9	RNP 1

WAYPOINT COORDINATES		
WPT	COORD	
BULOG	500854.00N	0660036.00E
DER	501907.92N	0665605.41E
IRLEM	505353.00N	0672936.00E
KUSOT	502128.00N	0655110.00E
SUKUR	494431.00N	0661957.00E
TOMZU	504824.00N	0662645.00E
TUSEP	503136.00N	0680751.00E
UR200	501911.06N	0664945.81E
UTEMU	493757.00N	0671237.00E
VAMRI	501330.00N	0681645.00E

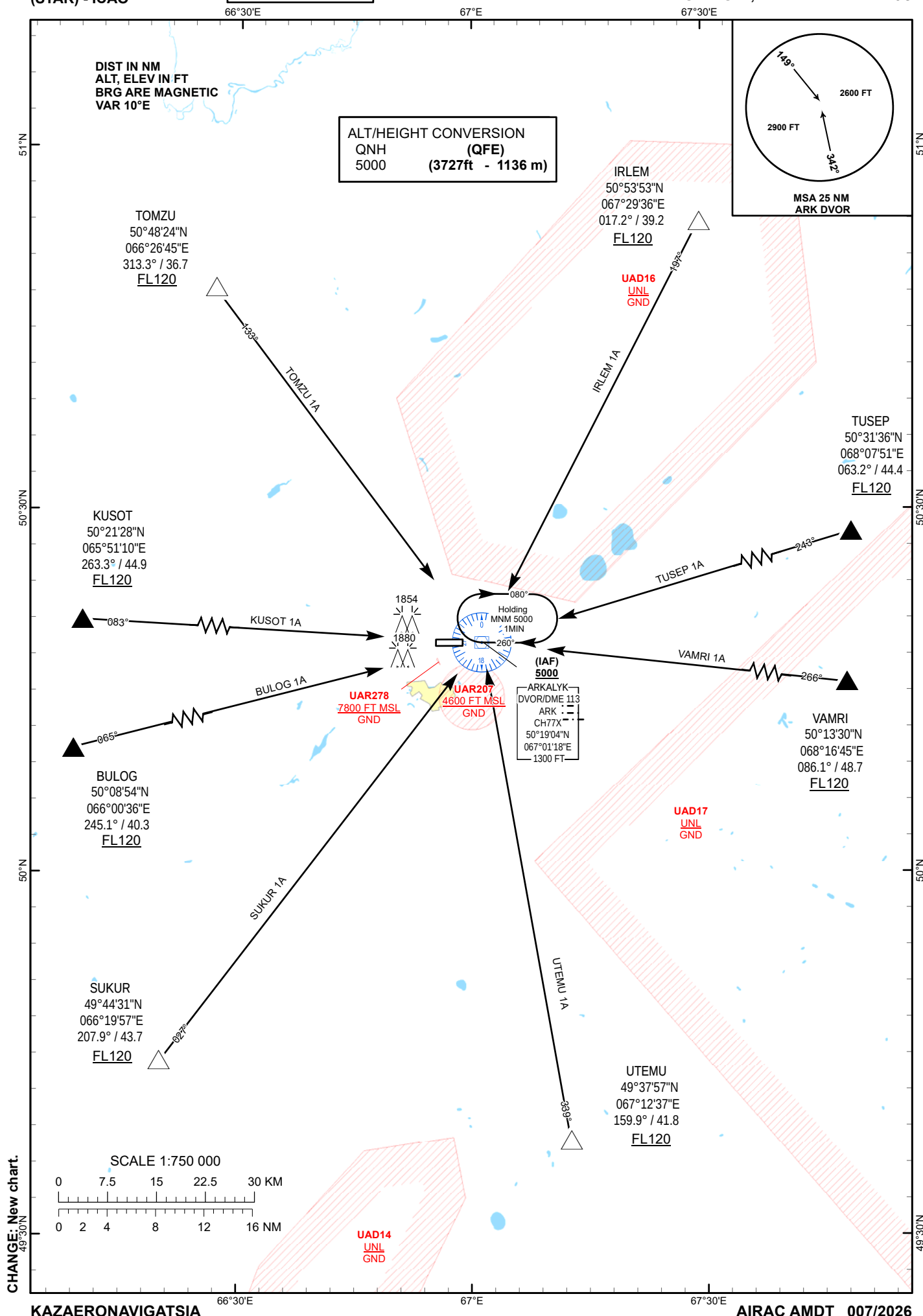
STANDARD ARRIVAL
CHART - INSTRUMENT
(STAR) - ICAO

TRANSITION ALTITUDE
10000 FT

ARKALYK TOWER 129.3
ARKALYK ATIS (EN) 126.8
ARKALYK ATIS (RU) 126.8

BULOG1A, IRLEM1A, KUSOT1A,
SUKUR1A, TOMZU1A, TUSEP1A,
UTEMU1A, VAMRI1A

ARKALYK
RWY 08



Standard Arrival Routes - Instrument (STAR) RWY 08

IRLEM 1A

After crossing IRLEM (R017.2° D39.2NM ARK), proceed on track 197° to DVOR/DME ARK.
Cross IRLEM at FL120 or above.

TUSEP 1A

After crossing TUSEP (R063.2° D44.4NM ARK), proceed on track 243° to DVOR/DME ARK.
Cross TUSEP at FL120 or above.

VAMRI 1A

After crossing VAMRI (R086.1° D48.7NM ARK), proceed on track 266° to DVOR/DME ARK.
Cross VAMRI at FL120 or above.

UTEMU 1A

After crossing UTEMU (R159.9° D41.8NM ARK), proceed on track 339° to DVOR/DME ARK.
Cross UTEMU at FL120 or above.

SUKUR 1A

After crossing SUKUR (R207.9° D43.7NM ARK), proceed on track 027° to DVOR/DME ARK.
Cross SUKUR at FL120 or above.

BULOG 1A

After crossing BULOG (R245.1° D40.3NM ARK), proceed on track 065° to DVOR/DME ARK.
Cross BULOG at FL120 or above.

KUSOT 1A

After crossing KUSOT (R263.3° D44.9NM ARK), proceed on track 083° to DVOR/DME ARK.
Cross KUSOT at FL120 or above.

TOMZU 1A

After crossing TOMZU (R313.3° D36.7NM ARK), proceed on track 133° to DVOR/DME ARK.
Cross TOMZU at FL120 or above.

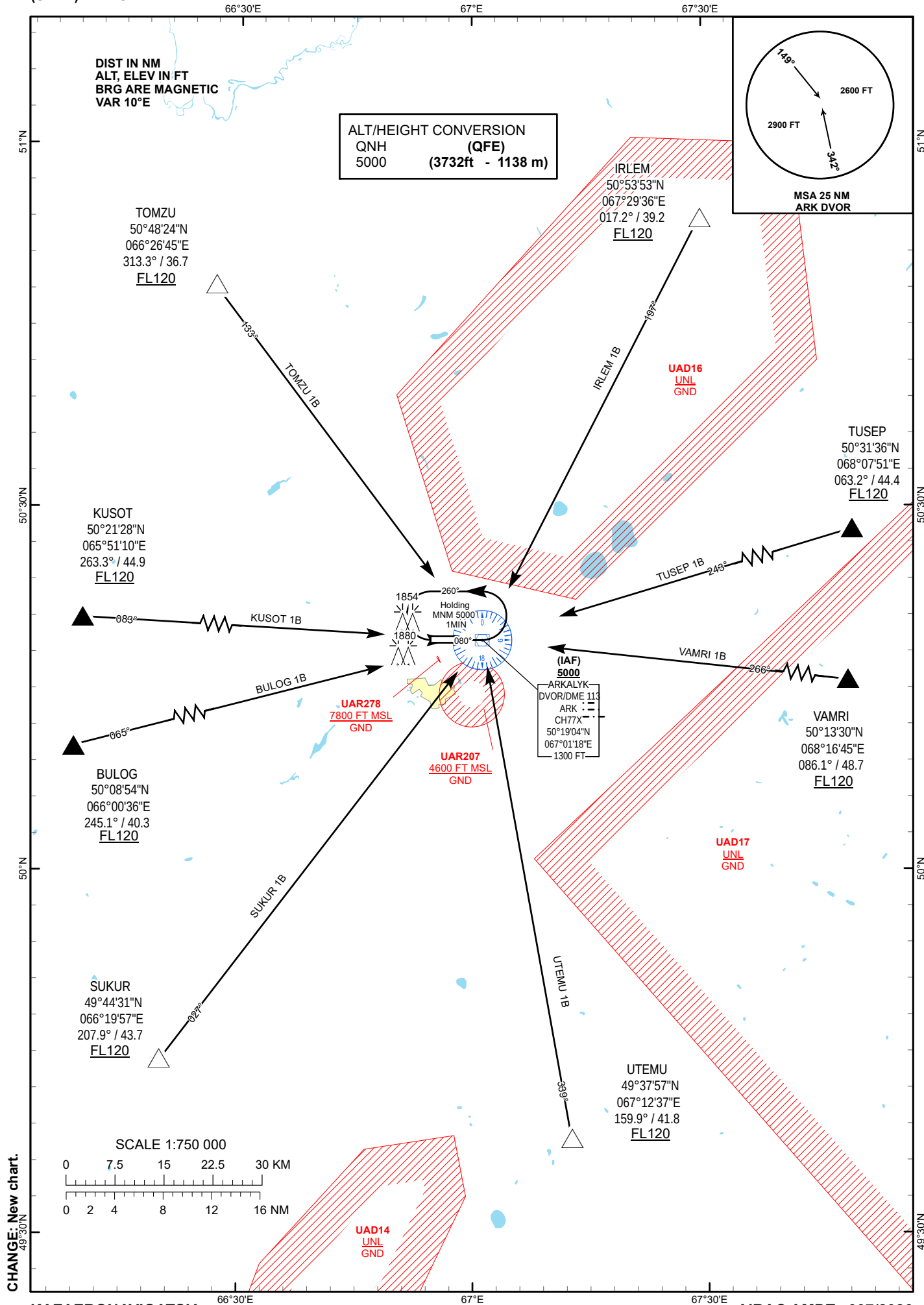
STANDARD ARRIVAL
CHART - INSTRUMENT
(STAR) - ICAO

TRANSITION ALTITUDE
10000 FT

ARKALYK TOWER 129.3
ARKALYK ATIS (EN) 126.8
ARKALYK ATIS (RU) 126.8

BULOG1B, IRLEM1B, KUSOT1B,
SUKUR1B, TOMZU1B, TUSEP1B,
UTEMU1B, VAMRI1B

ARKALYK
RWY 26



Standard Arrival Routes - Instrument (STAR) RWY 26

IRLEM 1B

After crossing IRLEM (R017.2° D39.2NM ARK), proceed on track 197° to DVOR/DME ARK.
Cross IRLEM at FL120 or above.

TUSEP 1B

After crossing TUSEP (R063.2° D44.4NM ARK), proceed on track 243° to DVOR/DME ARK.
Cross TUSEP at FL120 or above.

VAMRI 1B

After crossing VAMRI (R086.1° D48.7NM ARK), proceed on track 266° to DVOR/DME ARK.
Cross VAMRI at FL120 or above.

UTEMU 1B

After crossing UTEMU (R159.9° D41.8NM ARK), proceed on track 339° to DVOR/DME ARK.
Cross UTEMU at FL120 or above.

SUKUR 1B

After crossing SUKUR (R207.9° D43.7NM ARK), proceed on track 027° to DVOR/DME ARK.
Cross SUKUR at FL120 or above.

BULOG 1B

After crossing BULOG (R245.1° D40.3NM ARK), proceed on track 065° to DVOR/DME ARK.
Cross BULOG at FL120 or above.

KUSOT 1B

After crossing KUSOT (R263.3° D44.9NM ARK), proceed on track 083° to DVOR/DME ARK.
Cross KUSOT at FL120 or above.

TOMZU 1B

After crossing TOMZU (R313.3° D36.7NM ARK), proceed on track 133° to DVOR/DME ARK.
Cross TOMZU at FL120 or above.

RNAV
STANDARD ARRIVAL CHART
INSTRUMENT (STAR) - ICAO

TRANSITION ALTITUDE
10000 FT

ARKALYK TOWER 129.3
ARKALYK ATIS (EN) 126.8
ARKALYK ATIS (RU) 126.8

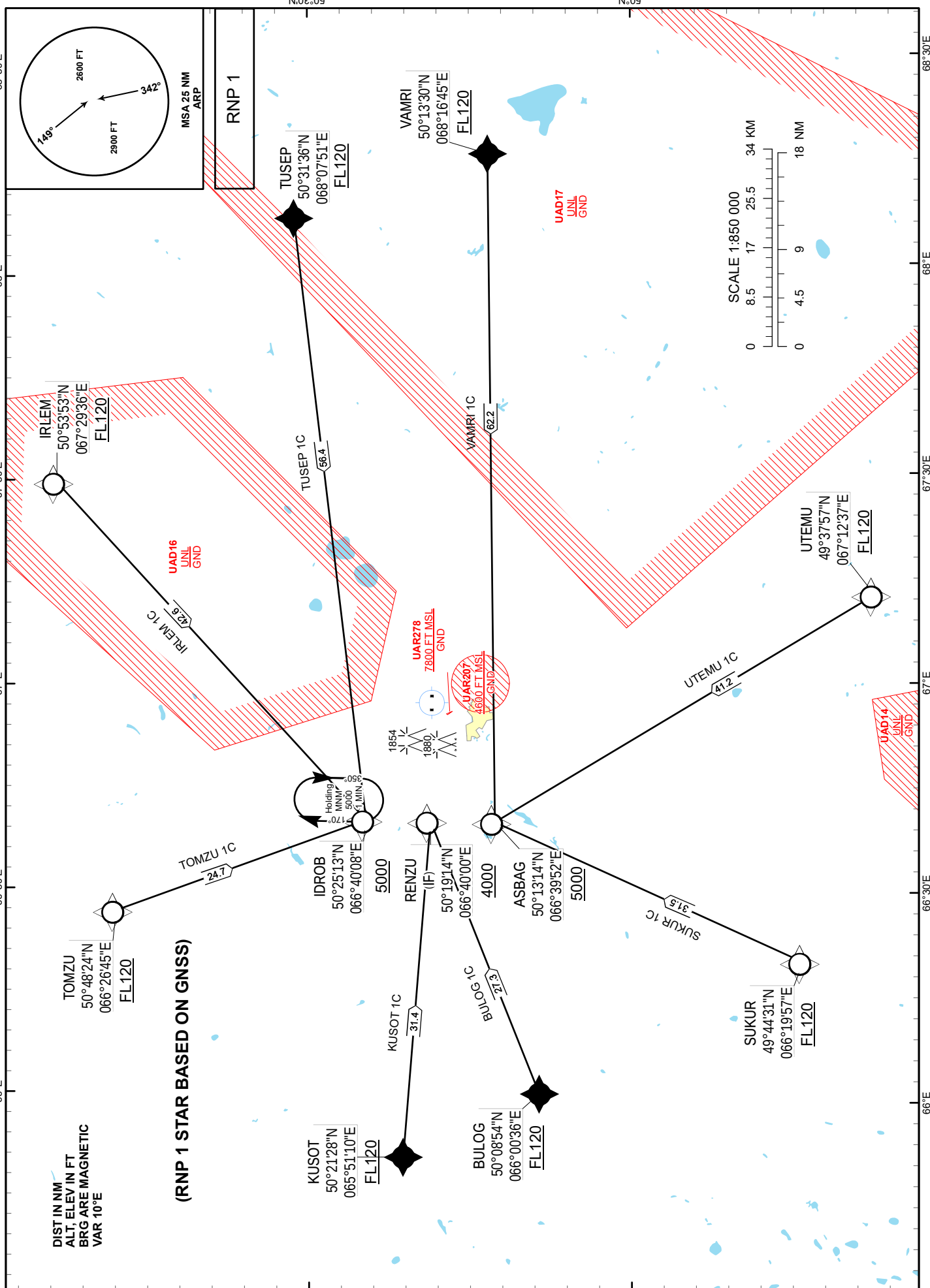
BULOG 1C, IRLEM 1C, KUSOT 1C,
SUKUR 1C, TOMZU 1C, TUSEP 1C,
UTEMU 1C, VAMRI 1C

ARKALYK
RWY 08

CHANGE: New chart.

DIST IN NM
ALT ELEV IN FT
BRG ARE MAGNETIC
VAR 10°E

(RNP 1 STAR BASED ON GNSS)



TABULAR DESCRIPTION											RWY08
BULOG 1C											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	IF	BULOG	-		+10.4	-	-	+FL120	-	-	RNP 1
020	TF	RENZU	-	058(067.5)	+10.4	27.3	-	+4000	-	-	RNP 1
IRLEM 1C											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	IF	IRLEM	-		+10.4	-	-	+FL120	-	-	RNP 1
020	TF	IDROB	-	218(228.0)	+10.4	42.6	-	+5000	-	-	RNP 1
KUSOT 1C											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	IF	KUSOT	-		+10.4	-	-	+FL120	-	-	RNP 1
020	TF	RENZU	-	084(093.8)	+10.4	31.4	-	+4000	-	-	RNP 1
SUKUR 1C											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	IF	SUKUR	-		+10.4	-	-	+FL120	-	-	RNP 1
020	TF	ASBAG	-	014(024.0)	+10.4	31.5	-	+5000	-	-	RNP 1
TOMZU 1C											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	IF	TOMZU	-		+10.4	-	-	+FL120	-	-	RNP 1
020	TF	IDROB	-	150(159.8)	+10.4	24.7	-	+5000	-	-	RNP 1
TUSEP 1C											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	IF	TUSEP	-		+10.4	-	-	+FL120	-	-	RNP 1
020	TF	IDROB	-	254(264.1)	+10.4	56.4	-	+5000	-	-	RNP 1
UTEMU 1C											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	IF	UTEMU	-		+10.4	-	-	+FL120	-	-	RNP 1
020	TF	ASBAG	-	319(329.3)	+10.4	41.2	-	+5000	-	-	RNP 1
VAMRI 1C											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	IF	VAMRI	-		+10.4	-	-	+FL120	-	-	RNP 1
020	CF	ASBAG	-	260(270.4)	+10.4	62.2	-	+5000	-	-	RNP 1

WAYPOINT COORDINATES		
WPT	COORD	
IDROB	502513.30N	0664007.50E
ASBAG	501314.10N	0663951.80E
BULOG	500854.00N	0660036.00E
RENZU	501913.66N	0663959.61E
IRLEM	505353.00N	0672936.00E
KUSOT	502128.00N	0655110.00E
SUKUR	494431.00N	0661957.00E
TOMZU	504824.00N	0662645.00E
TUSEP	503136.00N	0680751.00E
UTEMU	493757.00N	0671237.00E
VAMRI	501330.00N	0681645.00E

STANDARD ARRIVAL
CHART - INSTRUMENT
(STAR) - ICAO

TRANSITION ALTITUDE
10000 FT

ARKALYK TOWER 129.3
ARKALYK ATIS (EN) 126.8
ARKALYK ATIS (RU) 126.8

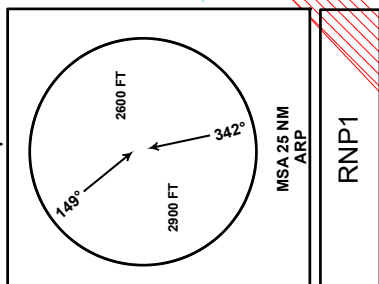
BULOG 1D, IRLEM 1D, KUSOT 1D,
SUKUR 1D, TOMZU 1D, TUSEP 1D,
UTEMU 1D, VAMRI 1D

ARKALYK
RWY 26

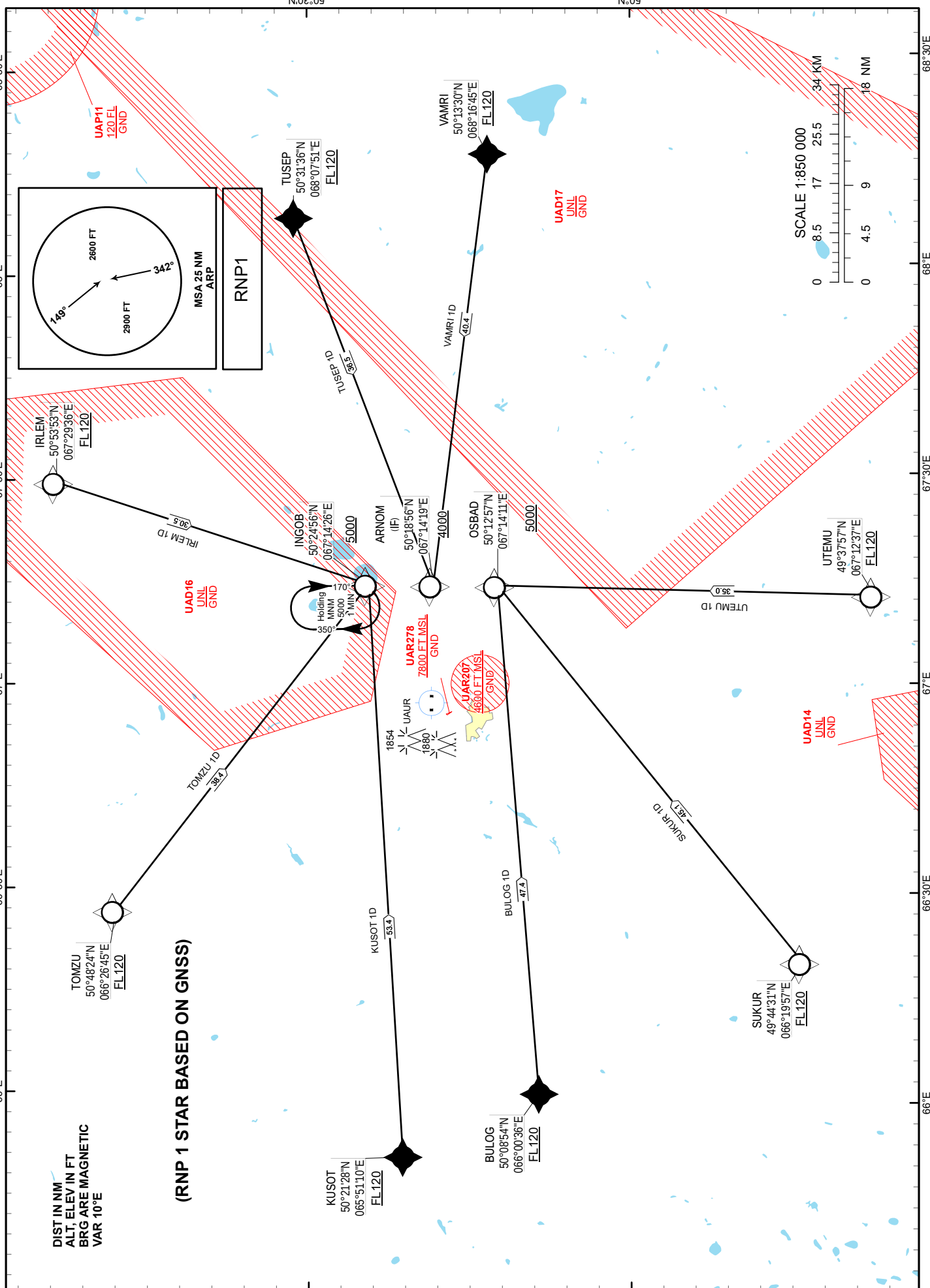
CHANGE: New chart.

DIST IN NM
ALT ELEV IN FT
BRG ARE MAGNETIC
VAR 10°E

(RNP 1 STAR BASED ON GNSS)



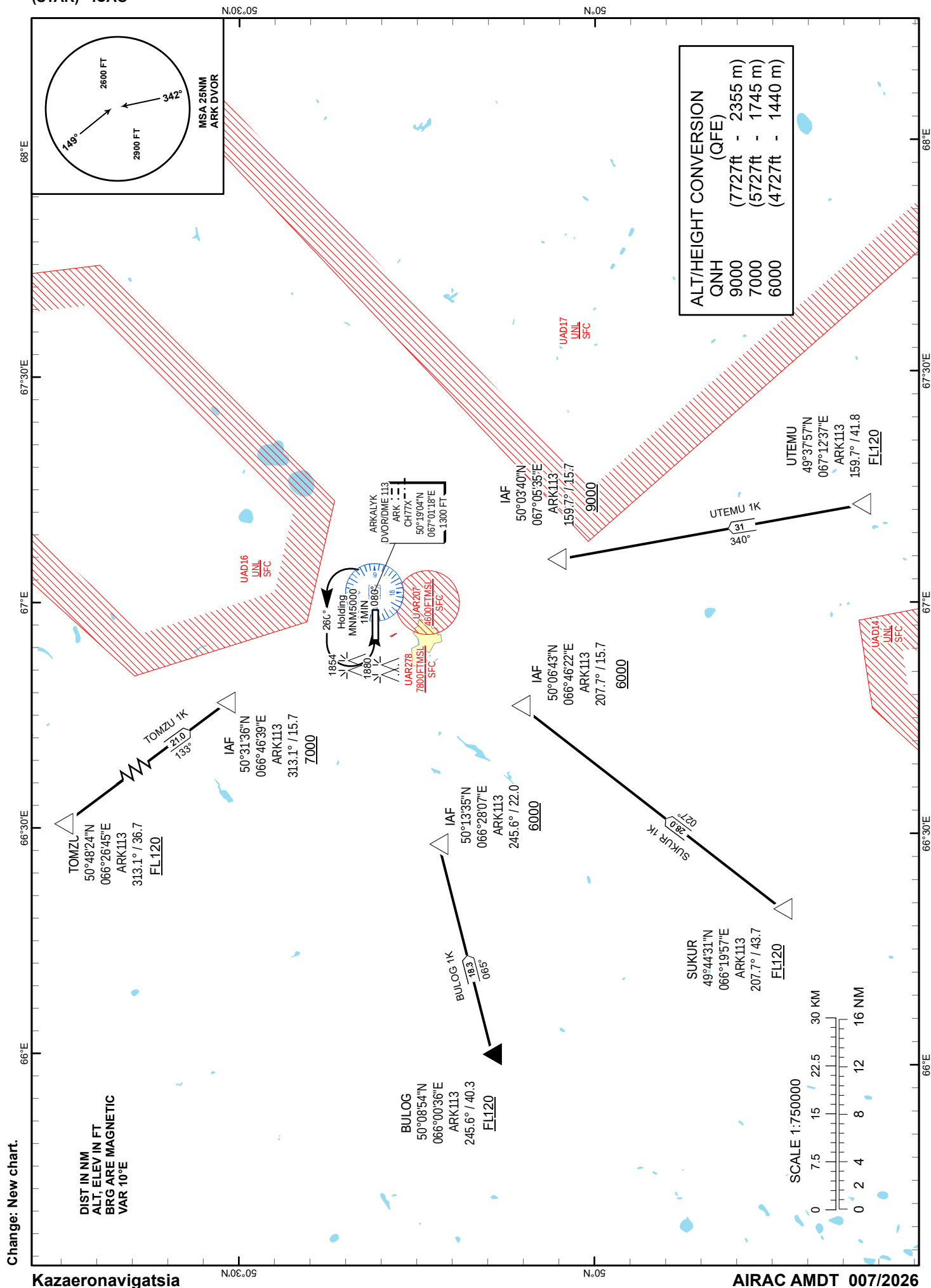
SCALE 1:850 000
0 8.5 17 25.5 34 KM
0 4.5 9 18 NM



TABULAR DESCRIPTION											RWY26
BULOG 1D											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	IF	BULOG	-		+10.4	-	-	+FL120	-	-	RNP 1
020	TF	OSBAD	-	074(084.6)	+10.4	47.4	-	+5000	-	-	RNP 1
IRLEM 1D											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	IF	IRLEM	-		+10.4	-	-	+FL120	-	-	RNP 1
020	TF	INGOB	-	189(198.5)	+10.4	30.5	-	+5000	-	-	RNP 1
KUSOT 1D											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	IF	KUSOT	-		+10.4	-	-	+FL120	-	-	RNP 1
020	TF	INGOB	-	076(085.7)	+10.4	53.4	-	+5000	-	-	RNP 1
SUKUR 1D											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	IF	SUKUR	-		+10.4	-	-	+FL120	-	-	RNP 1
020	TF	OSBAD	-	041(050.5)	+10.4	45.0	-	+5000	-	-	RNP 1
TOMZU 1D											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	IF	TOMZU	-		+10.4	-	-	+FL120	-	-	RNP 1
020	TF	INGOB	-	117(127.4)	+10.4	38.3	-	+5000	-	-	RNP 1
TUSEP 1D											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	IF	TUSEP	-		+10.4	-	-	+FL120	-	-	RNP 1
020	TF	ARNOM	-	240(250.0)	+10.4	36.5	-	+4000	-	-	RNP 1
UTEMU 1D											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	IF	UTEMU	-		+10.4	-	-	+FL120	-	-	RNP 1
020	TF	OSBAD	-	352(001.6)	+10.4	35.0	-	+5000	-	-	RNP 1
VAMRI 1D											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA (°)	Navigation Specification
010	IF	VAMRI	-		+10.4	-	-	+FL120	-	-	RNP 1
020	TF	ARNOM	-	268(278.1)	+10.4	40.4	-	+4000	-	-	RNP 1

WAYPOINT COORDINATES		
WPT	COORD	
BULOG	500854.00N	0660036.00E
INGOB	502456.10N	0671426.50E
OSBAD	501256.90N	0671410.80E
ARNOM	501856.47N	0671418.62E
IRLEM	505353.00N	0672936.00E
KUSOT	502128.00N	0655110.00E
SUKUR	494431.00N	0661957.00E
TOMZU	504824.00N	0662645.00E
TUSEP	503136.00N	0680751.00E
UTEMU	493757.00N	0671237.00E
VAMRI	501330.00N	0681645.00E

ARKALYK
RWY 08



Standard Arrival Routes Instrument (STAR) RWY 08
BULOG1K After crossing BULOG (R245.6° D40.3NM ARK), proceed on track 245.6° to IAF. Cross BULOG at FL120 or above. Cross IAF at 6000 FT.
SUKUR1K After crossing SUKUR (R207.7° D43.7NM ARK), proceed on track 207.7° to IAF. Cross SUKUR at FL120 or above. Cross IAF at 6000 FT.
UTEMU1K After crossing UTEMU (R159.7° D41.8NM ARK), proceed on track 159.7° to IAF. Cross UTEMU at FL120 or above. Cross IAF at 9000 FT.
TOMZU1K After crossing TOMZU (R313.1° D36.7NM ARK), proceed on track 313.1° to IAF. Cross TOMZU at FL120 or above. Cross IAF at 7000 FT or above.
KUSOT1K After crossing KUSOT (R260.6° D45.0NM ARK), proceed on track 260.6° to IF. Cross KUSOT at FL120 or above. Cross IF at 4000 FT or above.

ARKALYK
RWY 26



Standard Arrival Routes Instrument (STAR) RWY 26

UTEMU1L

After crossing UTEMU (R159.7° D41.8NM ARK), proceed on track 159.7° to IAF.
Cross UTEMU at FL120 or above.
Cross IAF at 6000.

TUSEP1L

After crossing TUSEP (R063.0° D44.4NM ARK), proceed on track 062.9° to IAF.
Cross TUSEP at FL120 or above.
Cross IAF at 5000.

IRLEM1L

After crossing IRLEM (R017.0° D39.2NM ARK), proceed on track 017.0° to IAF.
Cross IRLEM at FL120 or above.
Cross IAF at 6000.

TOMZU1L

After crossing TOMZU (R313.1° D36.7NM ARK), proceed on track 313.1° to IAF.
Cross TOMZU at FL120 or above.
Cross IAF at 9000.

VAMRI1L

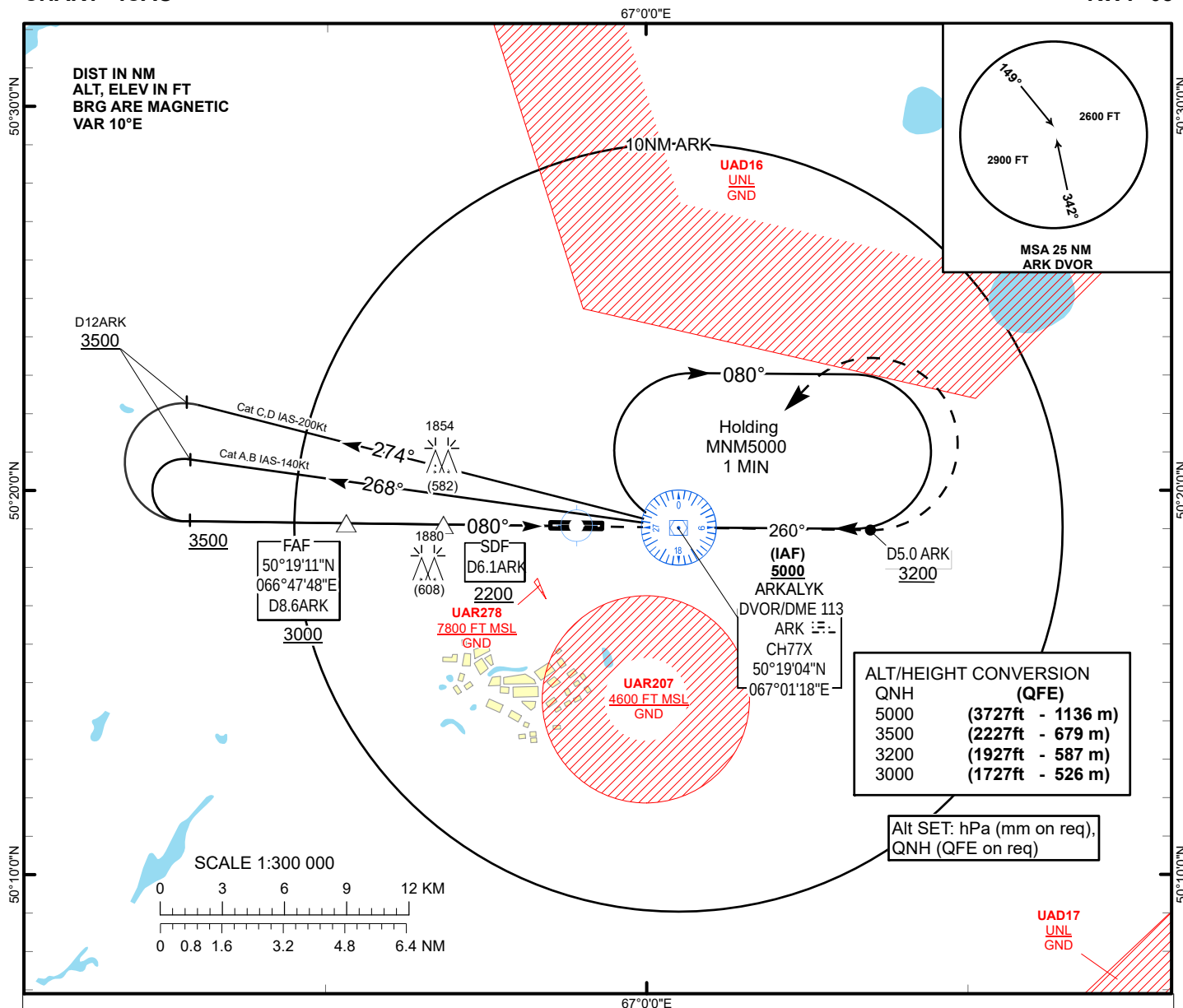
After crossing VAMRI (R080.6° D48.7NM ARK), proceed on track 080.6° to IF.
Cross VAMRI at FL120 or above.
Cross IF at 4000.

INSTRUMENT
APPROACH
CHART - ICAO

AERODROME ELEV 1273 FT
HEIGHTS RELATED TO
AD ELEV

ARKALYK TOWER 129.3
ARKALYK ATIS (EN) 126.8
ARKALYK ATIS (RU) 126.8

ARKALYK
VOR/DME Z
RWY 08



TRANSITION ALT

IAF
5000

MISSED APPROACH:

Climb on track 080° to 3200 or above
outbound to 5.0 ARK.
Turn LEFT to ARK.
Climb initially to 3500, then as directed.
RADIO FAILURE: In the case
of RCF climb to 5000 to ARK and
join to holding pattern.
Missed approach turn speed limited
to 200 Kt IAS maximum.

ELEV 1272
THR RWY 08

10 9 8 7 6 5 4 3 2 1 0

OCA (OCH)

A

B

C

D

Straight-in
Approach
OCA/H

VOR/DME

1573(300)

DIST THR	5.3	5	4	3	2	1
DME ARK	8.6	8.3	7.3	6.3	5.3	4.3
ALTITUDE	3000	2915	2595	2275	1955	1641
HEIGHT	(1727)	(1642)	(1322)	(1002)	(682)	(368)

GS	Kt	80	100	120	140	160	180
Rate of descent (5.2%)	ft/min	420	530	640	740	850	950
FAF-MAPT (5.3 NM)	min:sec	3:58	3:11	2:39	2:16	1:59	1:46

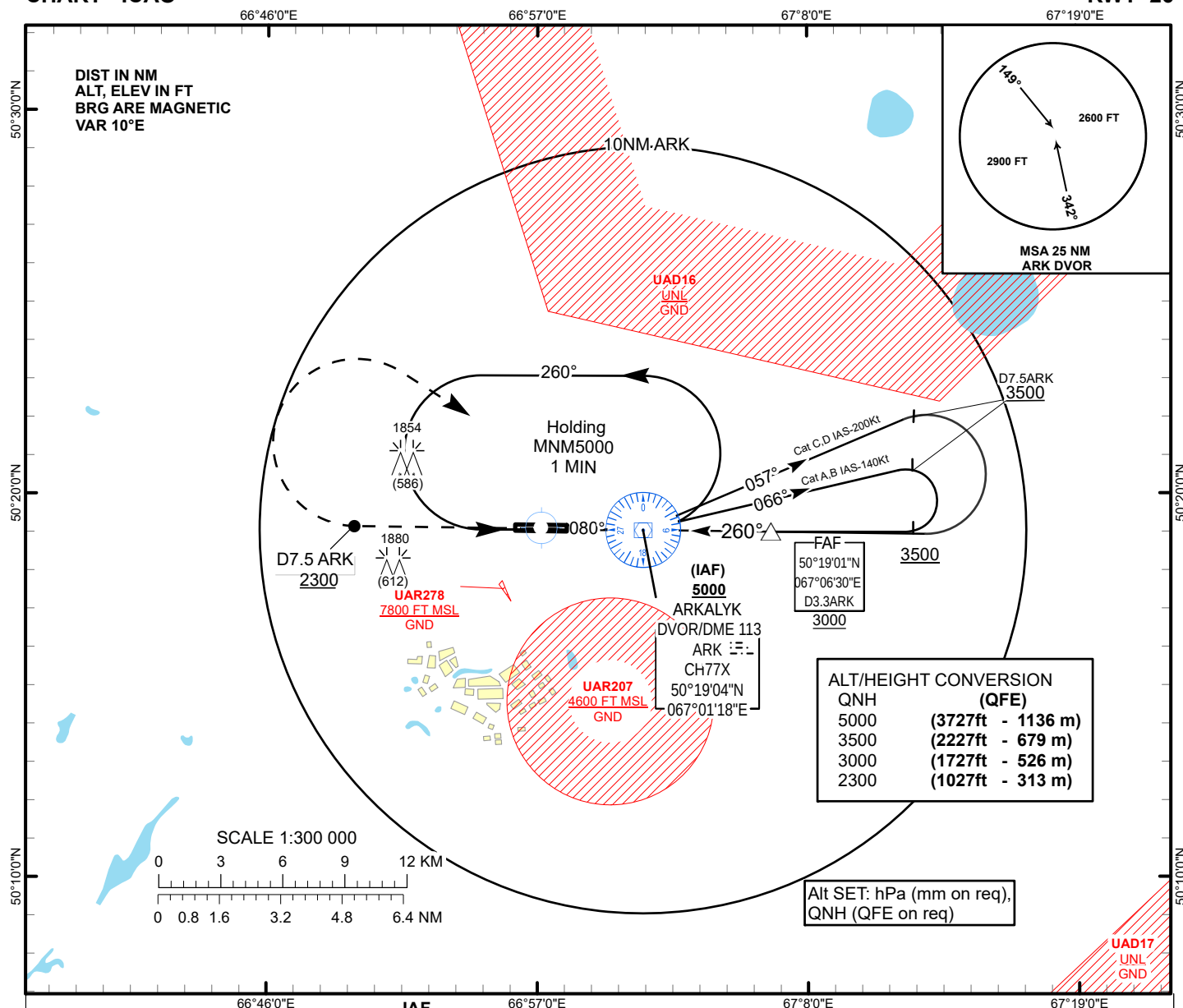
CHANGE: New chart.

VOR/DME Z

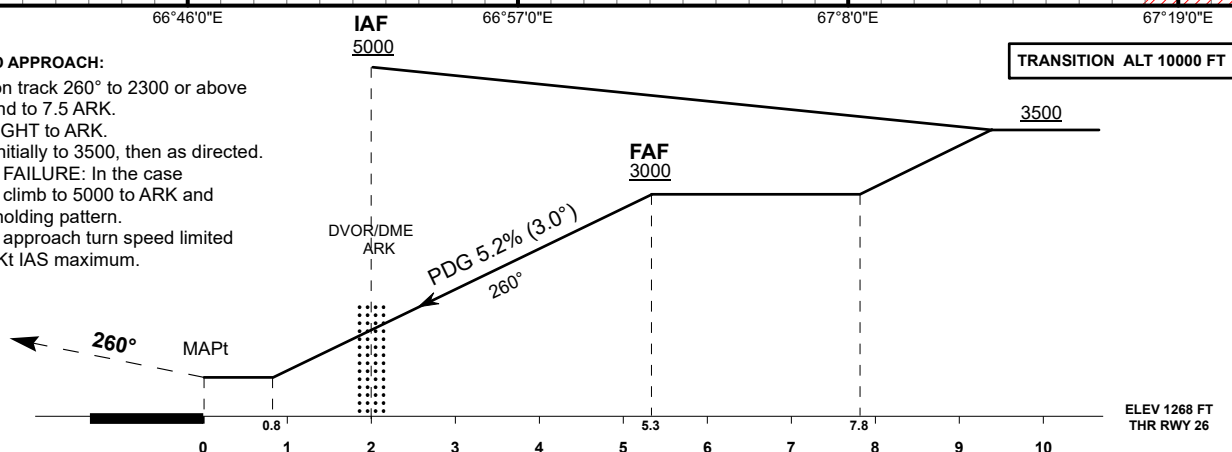
AERONAUTICAL DATA TABULATION

VOR/DME approach to RWY08 from ARK DVOR/DME	
Fix/point	Coordinates
ARK DVOR/DME (IAF)	50° 19' 04.18"N 067° 01' 17.93"E
(SDF) D6.1 ARK	50° 19' 08.91"N 066° 51' 44.99"E
(FAF) D 8.6 ARK	50° 19' 10.64"N 066° 47' 47.89"E
THR RWY 08	50° 19' 07.92"N 66° 56' 05.39"E
Final approach descent angle is 3°	

ARKALYK
VOR/DME Z
RWY 26



Climb on track 260° to 2300 or above
outbound to 7.5 ARK.
Turn RIGHT to ARK.
Climb initially to 3500, then as directed.
RADIO FAILURE: In the case
of RCF climb to 5000 to ARK and
join to holding pattern.
Missed approach turn speed limited
to 200 Kt IAS maximum.



DIST THR	5.3	5	4	3	2	1
DME ARK	3.3	3	2	1	0	1
ALTITUDE	3000	2915	2595	2275	1955	1641
HEIGHT	(1727)	(1642)	(1322)	(1002)	(682)	(368)

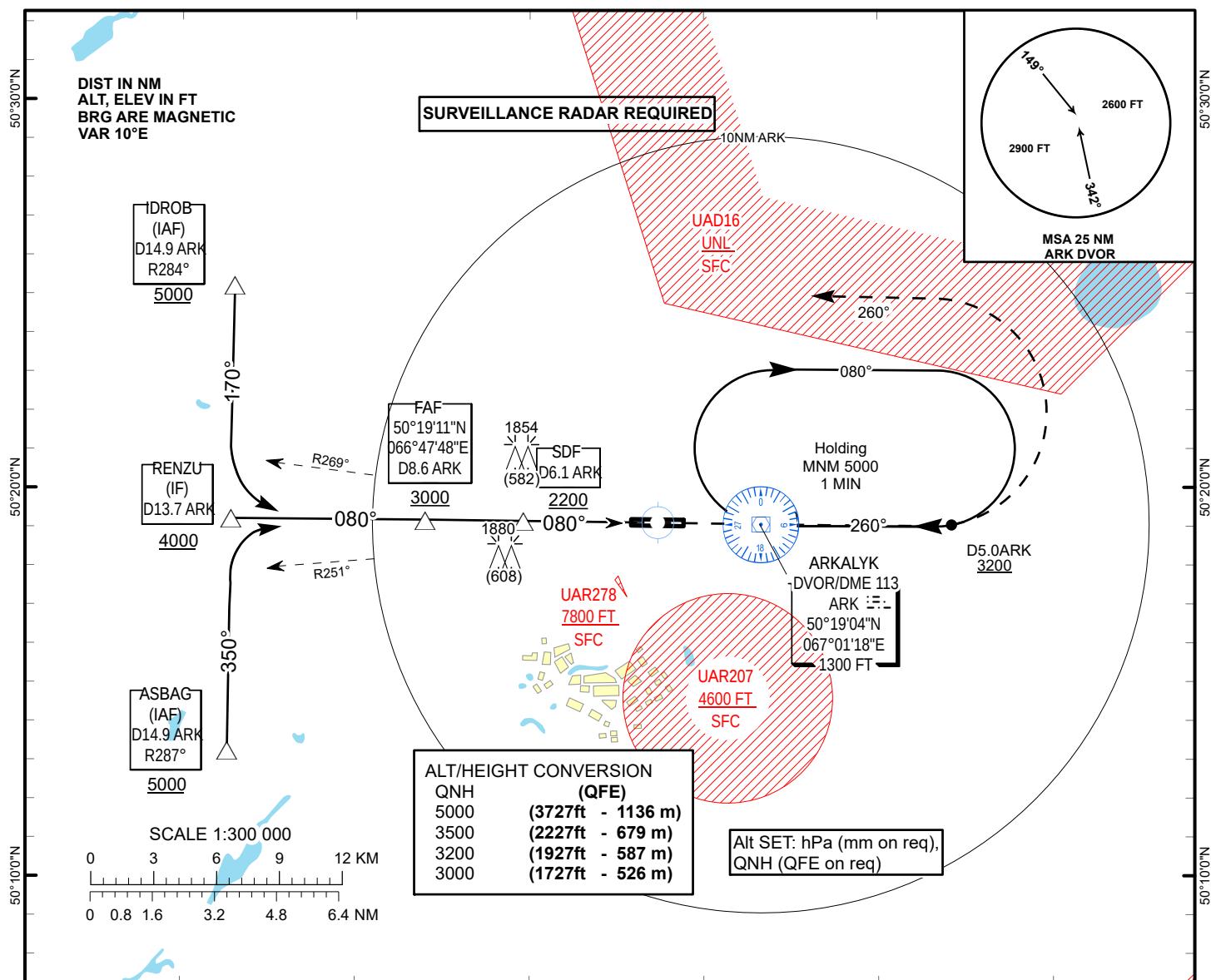
GS	Kt	80	100	120	140	160	180
Rate of descent (5.2%)	ft/min	420	530	640	740	850	950
FAF-MAPT (5.3 NM)	min:sec	3:58	3:11	2:39	2:16	1:59	1:46

CHANGE: New chart.

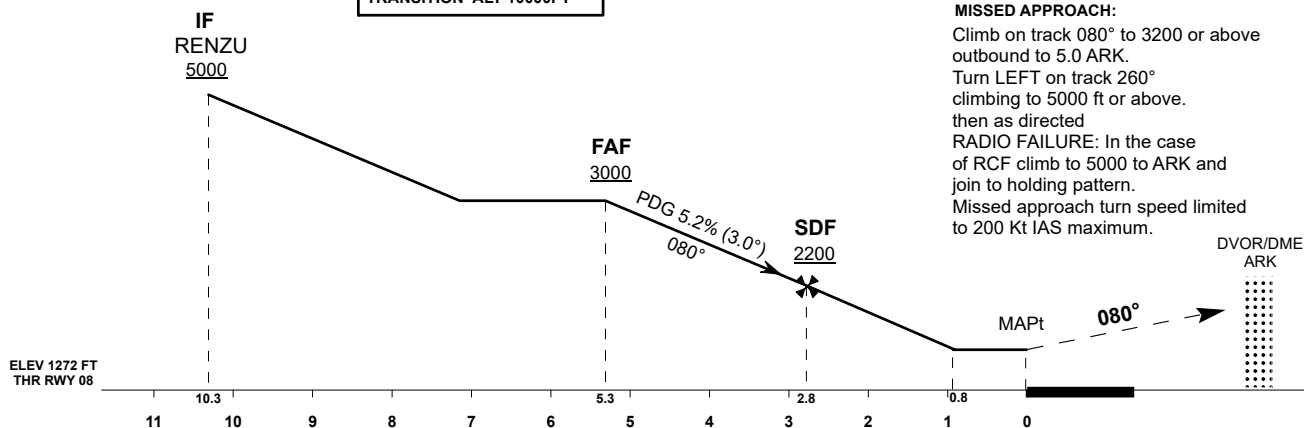
VOR/DME Z

AERONAUTICAL DATA TABULATION

VOR/DME approach to RWY26 from ARK DVOR/DME	
Fix/point	Coordinates
ARK DVOR/DME (IAF)	50° 19' 04.18"N 067° 01' 17.93"E
(FAF) D3.3ARK	50° 19' 01.27"N 067° 06' 30.43"E
THR RWY 26	43° 52' 03.01"N 051° 04' 29.51"E
Final approach descent angle is 3°	

INSTRUMENT
APPROACH
CHART - ICAOAERODROME ELEV 1273 FT
HEIGHTS RELATED TO
AD ELEVARKALYK TOWER 129.3
ARKALYK ATIS (EN) 126.8
ARKALYK ATIS (RU) 126.8ARKALYK
VOR/DME Y
RWY 08

TRANSITION ALT 10000FT



CHANGE: New chart.

OCA (OCH)		A	B	C	D
Straight-in Approach OCA/H	VOR/DME	1573(300)			

DIST THR	5.3	5	4	3	2	1
DME ARK	8.6	8.3	7.3	6.3	5.3	4.3
ALTITUDE	3000	2915	2595	2275	1955	1641
HEIGHT	(1727)	(1642)	(1322)	(1002)	(682)	(368)

GS	Kt	80	100	120	140	160	180
Rate of descent (5.2%)	ft/min	420	530	640	740	850	950
FAF-MAPT (5.3 NM)	min:sec	3:58	3:11	2:39	2:16	1:59	1:46

VOR/DME Y

AERONAUTICAL DATA TABULATION

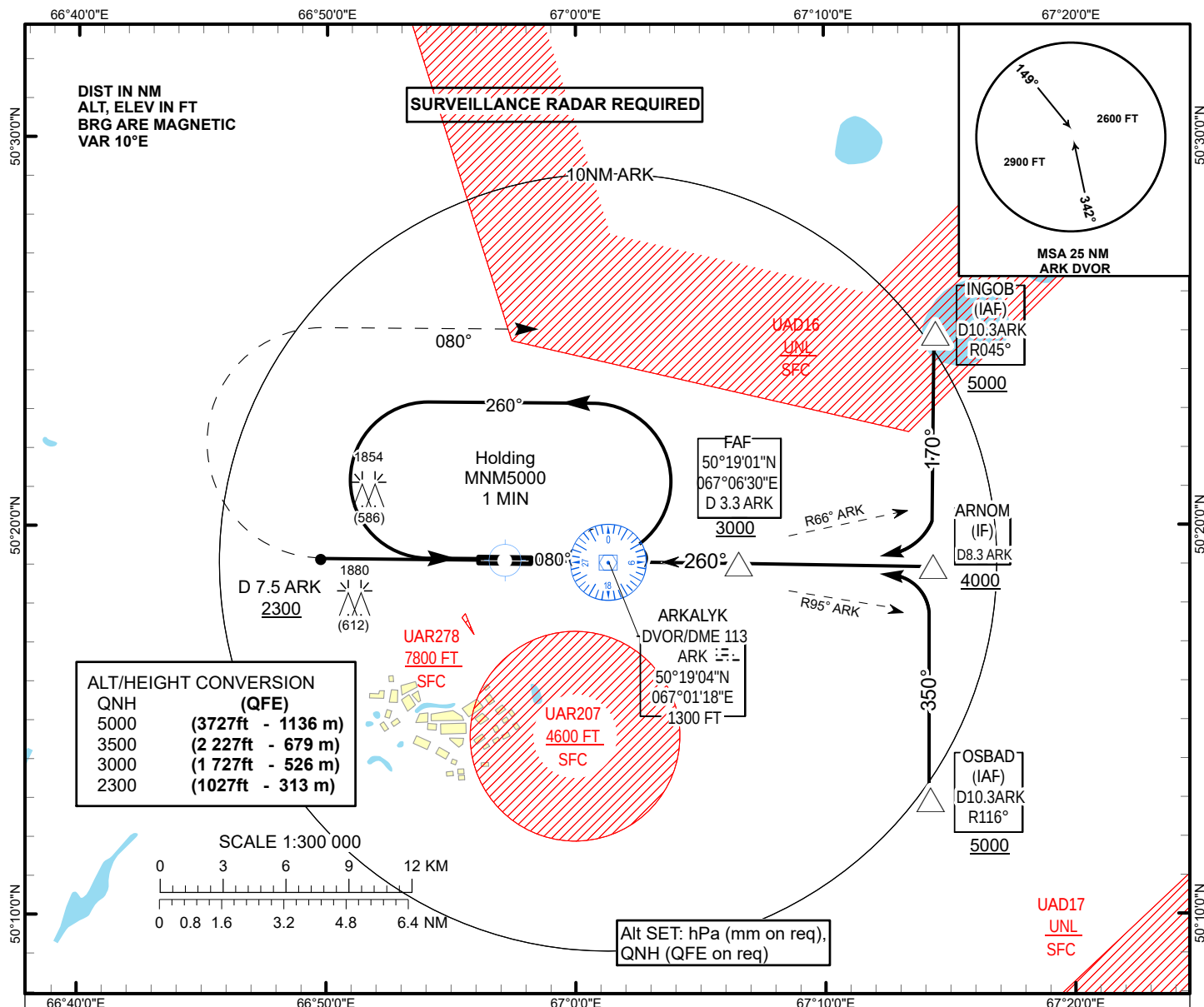
VOR/DME approach to RWY08 from ARK DVOR/DME	
Fix/point	Coordinates
ARK DVOR/DME	50° 19' 04.18"N 067° 01' 17.93"E
IDROB (IAF) D14.9NM ARK R284°	50° 25' 13.30"N 066° 40' 07.50"E
ASBAG (IAF) D14.9NM ARK R287°	50° 13' 14.10"N 066° 39' 51.80"E
(FAF) D 8.6NM ARK	50° 19' 10.64"N 066° 47' 47.89"E
(SDF) D6.1NM ARK	50° 19' 10.02"N 066° 51' 45.02"E
RENZU (IF) D13.7NM ARK	50° 19' 13.66"N 066° 39' 59.61"E
THR RWY 08	50° 19' 07.92"N 066° 56' 05.39"E
Final approach descent angle is 3°	

INSTRUMENT
APPROACH
CHART - ICAO

AERODROME ELEV 1273 FT
HEIGHTS RELATED TO
AD ELEV

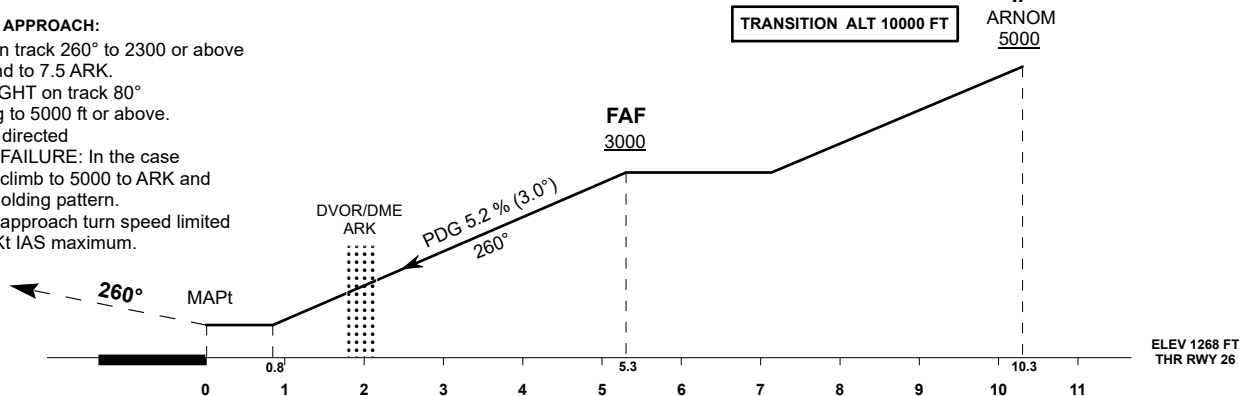
ARKALYK TOWER 129.3
ARKALYK ATIS (EN) 126.8
ARKALYK ATIS (RU) 126.8

ARKALYK
VOR/DME Y
RWY 26



MISSED APPROACH:

Climb on track 260° to 2300 or above
outbound to 7.5 ARK.
Turn RIGHT on track 80°
climbing to 5000 ft or above.
then as directed
RADIO FAILURE: In the case
of RCF climb to 5000 to ARK and
join to holding pattern.
Missed approach turn speed limited
to 200 Kt IAS maximum.



OCA (OCH)		A	B	C	D
Straight-in Approach OCA/H	VOR/DME	1573(300)			

DIST THR	5.3	5	4	3	2	1
DME ARK	3.3	3	2	1	0	1
ALTITUDE	3000	2915	2595	2275	1955	1641
HEIGHT	(1727)	(1642)	(1322)	(1002)	(682)	(368)

GS	Kt	80	100	120	140	160	180
Rate of descent (5.2%)	ft/min	420	530	640	740	850	950
FAF-MAPT (5.3 NM)	min:sec	3:58	3:11	2:39	2:16	1:59	1:46

CHANGE: New chart.

VOR/DME Y

AERONAUTICAL DATA TABULATION

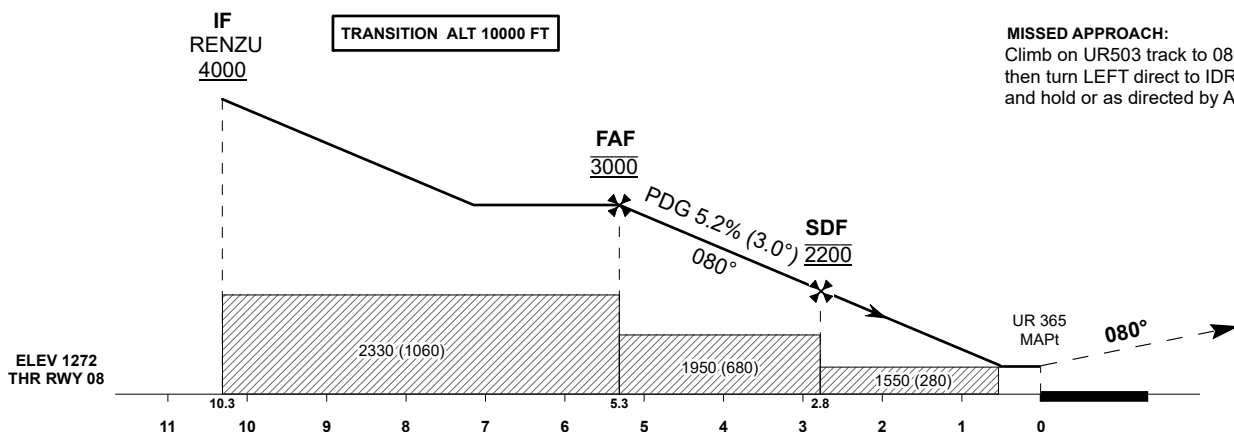
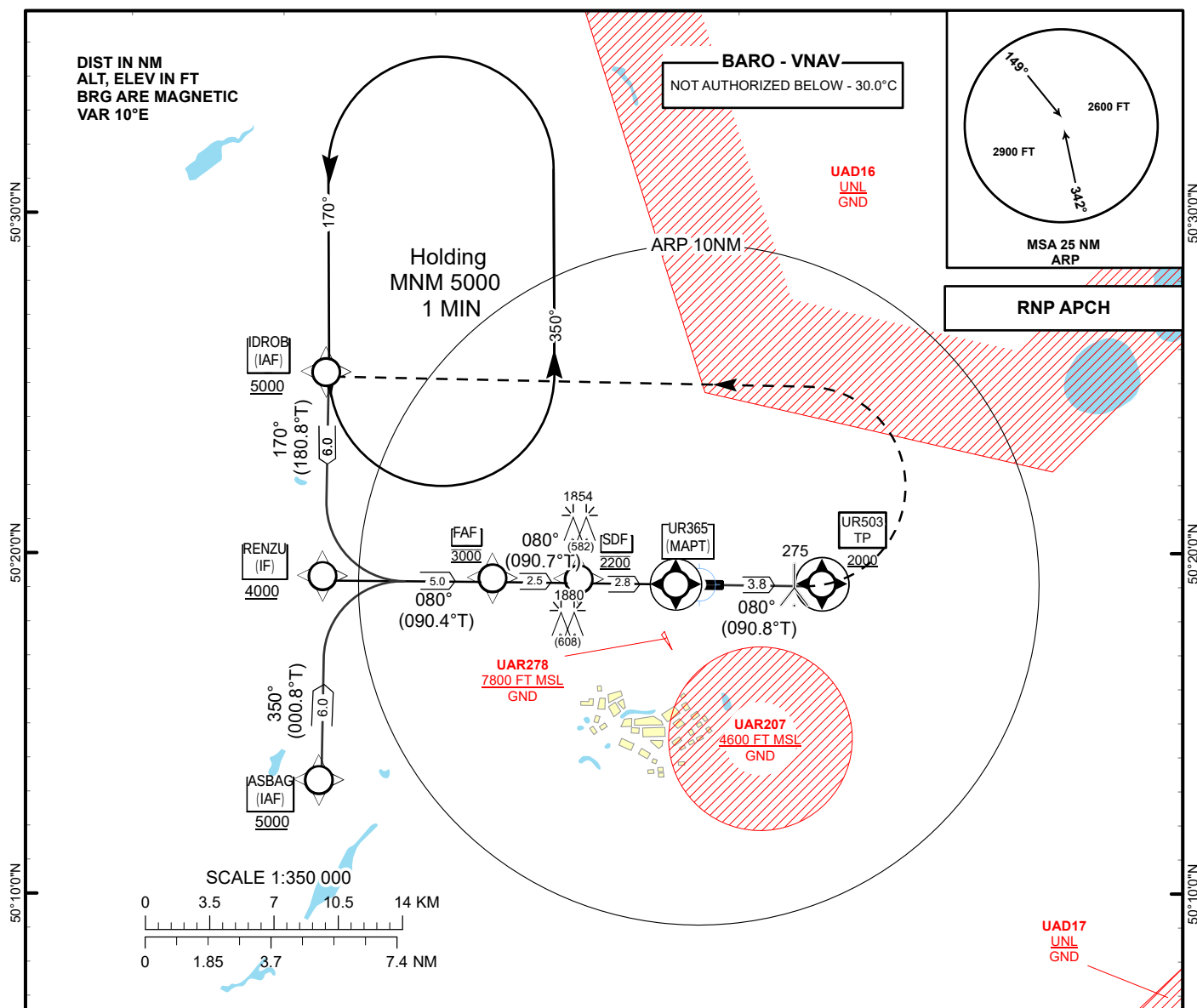
VOR/DME approach to RWY26 from ARK DVOR/DME	
Fix/point	Coordinates
ARK DVOR/DME	50° 19' 04.18"N 067° 01' 17.93"E
INGOB (IAF) D10.3NM ARK,R44.6°	50° 24' 56.10"N 067° 14' 26.50"E
OSBAD (IAF) D10.3NM ARK,R116.06°	50° 12' 56.90"N 067° 14' 10.80"E
ARNOM (IF) D8.3NM ARK	50° 18' 56.47"N 067° 14' 18.62"E
(FAF) D3.3NM ARK	50° 19' 01.27"N 067° 06' 30.43"E
THR RWY 26	43° 52' 03.01"N 051° 04' 29.51"E
Final approach descent angle is 3°	

INSTRUMENT APPROACH
CHART
ICAO

AERODROME ELEV 1273 FT
HEIGHTS RELATED TO
AD ELEV

ARKALYK TOWER 129.3
ARKALYK ATIS (EN) 126.8
ARKALYK ATIS (RU) 126.8

ARKALYK
RNP RWY 08



MISSED APPROACH:
Climb on UR503 track to 080°
then turn LEFT direct to IDROB
and hold or as directed by ATC

Aircraft Category		A	B	C	D
Straight-in Approach	LNAV	1550(280)			
	LNAV/VNAV	1433(160)	1446(173)	1465(192)	1486(213)

DIST THR	5.3	5	4	3	2	1
ALTITUDE	3000	2915	2595	2275	1955	1641
HEIGHT	(1727)	(1642)	(1322)	(1002)	(682)	(368)

GS	Kt	80	100	120	140	160	180
Rate of descent (5.2%)	ft/min	420	530	640	740	850	950
FAF-MAPT (5.3 NM)	min:sec	3:58	3:11	2:39	2:16	1:59	1:46

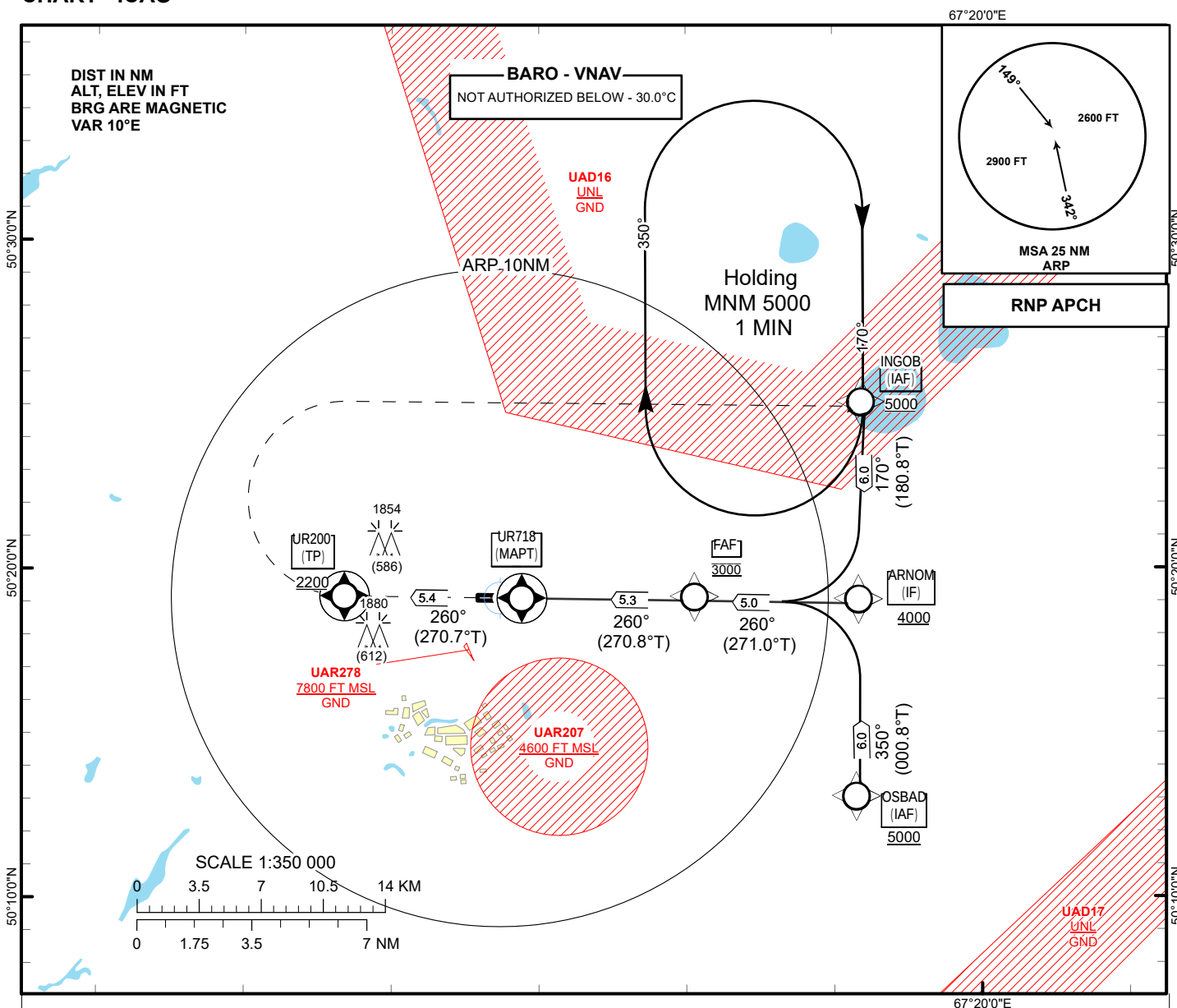
CHANGE: New chart.

TABULAR DESCRIPTION

RNP RWY08											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
010	IF	ASBAG	-	-	+10.41	-	-	+5000	-	-	RNP APCH
020	TF	RENUZU	-	350(0.8)	+10.41	6.0	-	+4000	-	-	RNP APCH
010	IF	IDROB	-	-	+10.41	-	-	+5000	-	-	RNP APCH
020	CF	RENUZU	-	170(180.8)	+10.41	6.0	-	+4000	-	-	RNP APCH
010	IF	RENUZU	-	-	+10.41	-	-	+4000	-	-	RNP APCH
020	TF	FAF	-	80(90.4)	+10.41	5.0	-	+3000	-	-	RNP APCH
030	TF	SDF	-	80(90.7)	+10.41	2.5	-	+2200	-	-3	RNP APCH
040	TF	UR365	Y	80(90.8)	+10.41	2.8	-	@1300	-	-3	RNP APCH
050	CA	UR503	Y	80(90.8)	+10.41	3.8	-	+2000	-	+1.4	RNP APCH
060	DF	IDROB	-		+10.41	23.3	L	+5000	-	+1.4	RNP APCH

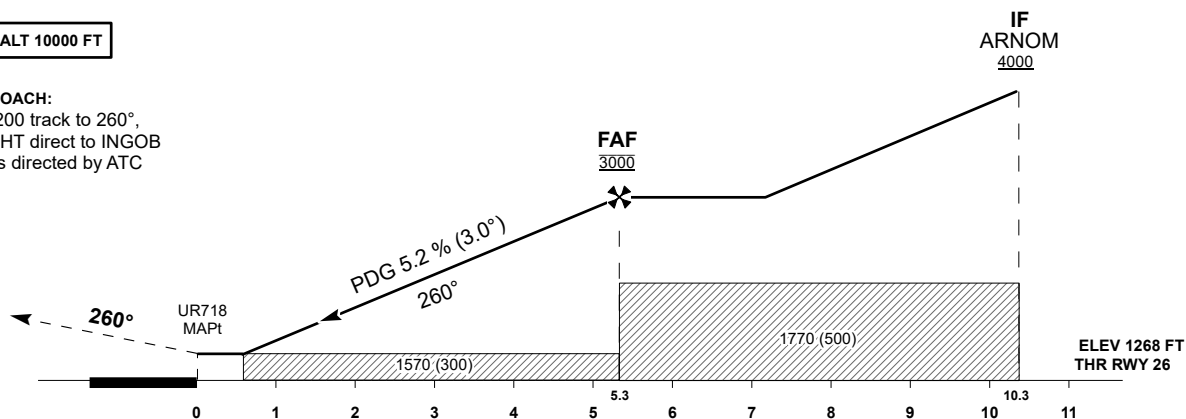
WAYPOINT LIST

Waypoints Identifier	Coordinates	
IDROB	502513.30N	0664007.50E
ASBAG	501314.10N	0663951.80E
FAF	501911.79N	0664747.91E
RENUZU	501913.66N	0663959.61E
SDF	501910.02N	0665145.02E
UR365	501907.92N	0665605.39E
UR503	501904.82N	0670157.90E

INSTRUMENT
APPROACH
CHART - ICAOAERODROME ELEV 1273 FT
HEIGHTS RELATED TO
AD ELEVARKALYK TOWER 129.3
ARKALYK ATIS (EN) 126.8
ARKALYK ATIS (RU) 126.8ARKALYK
RNP RWY 26

TRANSITION ALT 10000 FT

MISSED APPROACH:
Climb on UR200 track to 260°,
then turn RIGHT direct to INGOB
and hold or as directed by ATC



Aircraft Category		A	B	C	D
Straight	LNAV	1570(300)			
	LNAV/VNAV	1438(165)	1450(177)	1468(195)	1483(210)

DIST THR	5.3	5	4	3	2	1
ALTITUDE	3000	2915	2595	2275	1955	1641
HEIGHT	(1727)	(1642)	(1322)	(1002)	(682)	(368)

GS	Kt	80	100	120	140	160	180
Rate of descent (5.2%)	ft/min	420	530	640	740	850	950
FAF-MAPT (5.3 NM)	min:sec	3:58	3:11	2:39	2:16	1:59	1:46

CHANGE: New chart.

TABULAR DESCRIPTION

RNP RWY26											
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation(°)	Distance NM	Turn Direction	Altitude FT	Speed KT	VPA (°)	Navigation Specification
010	IF	INGOB	-		+10.41	-	-	+5000	-	-	RNP APCH
020	TF	ARNOM	-	170(180.8)	+10.41	6.0	-	+4000	-	-	RNP APCH
010	IF	OSBAD	-		+10.41	-	-	+5000	-	-	RNP APCH
020	TF	ARNOM	-	350 (0.8)	+10.41	6.0	-	+4000	-	-	RNP APCH
010	IF	ARNOM	-		+10.41	-	-	+4000	-	-	RNP APCH
020	TF	FAF	-	260(271.0)	+10.41	5.0	-	+3000	-	-	RNP APCH
030	TF	UR718	Y	260(270.8)	+10.41	5.3	-	@1300	-	-3	RNP APCH
040	CF	UR200	Y	260(270.7)	+10.41	5.4	-	+2200	-	+1.4	RNP APCH
050	DF	INGOB	-		+10.41	25.0	R	+5000	-	+1.4	RNP APCH

WAYPOIN LIST

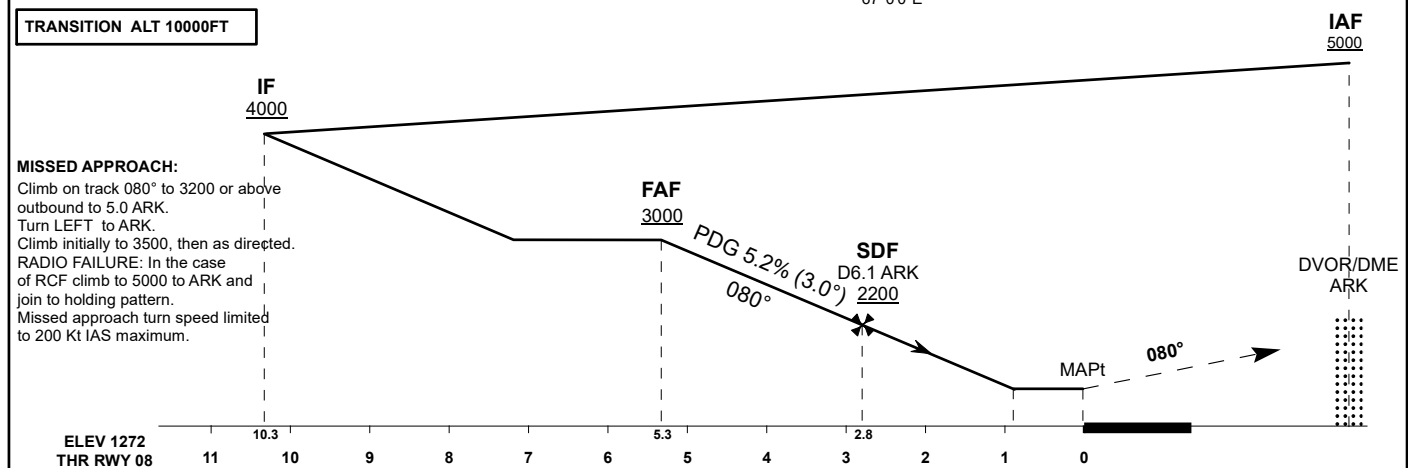
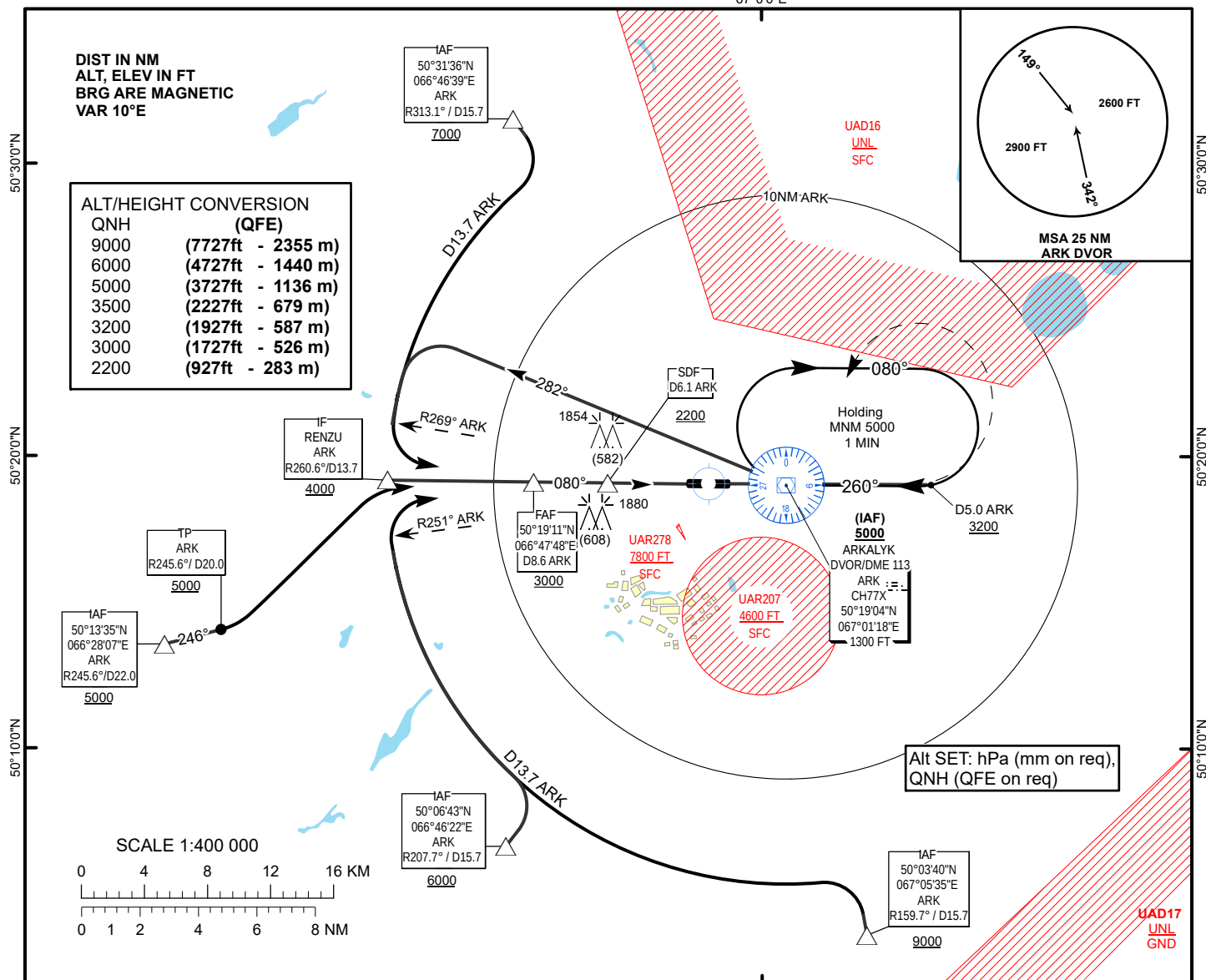
Waypoints Identifier	Coordinates	
INGOB	502456.10N	0671426.50E
OSBAD	501256.90N	0671410.80E
FAF	501902.19N	0670630.46E
ARNOM	501856.47N	0671418.62E
UR200	501911.06N	0664945.81E
UR718	501906.84N	0665811.77E

INSTRUMENT
APPROACH
CHART - ICAO

AERODROME ELEV 1273 FT
HEIGHTS RELATED TO
AD ELEV

ARKALYK TOWER 129.3
ARKALYK ATIS (EN) 126.8
ARKALYK ATIS (RU) 126.8

ARKALYK
VOR/DME
RWY 08



OCA (OCH)		A	B	C	D
Straight-in Approach OCA/H	VOR/DME	1573(300)			

DIST THR	5.3	5	4	3	2	1
DME ARK	8.6	8.3	7.3	6.3	5.3	4.3
ALTITUDE	3000	2915	2595	2275	1955	1641
HEIGHT	(1727)	(1642)	(1322)	(1002)	(682)	(368)

GS	Kt	80	100	120	140	160	180
Rate of descent (5.2%)	ft/min	420	530	640	740	850	950
FAF-MAPT (5.3 NM)	min:sec	3:58	3:11	2:39	2:16	1:59	1:46

CHANGE: New chart.

VOR/DME

AERONAUTICAL DATA TABULATION

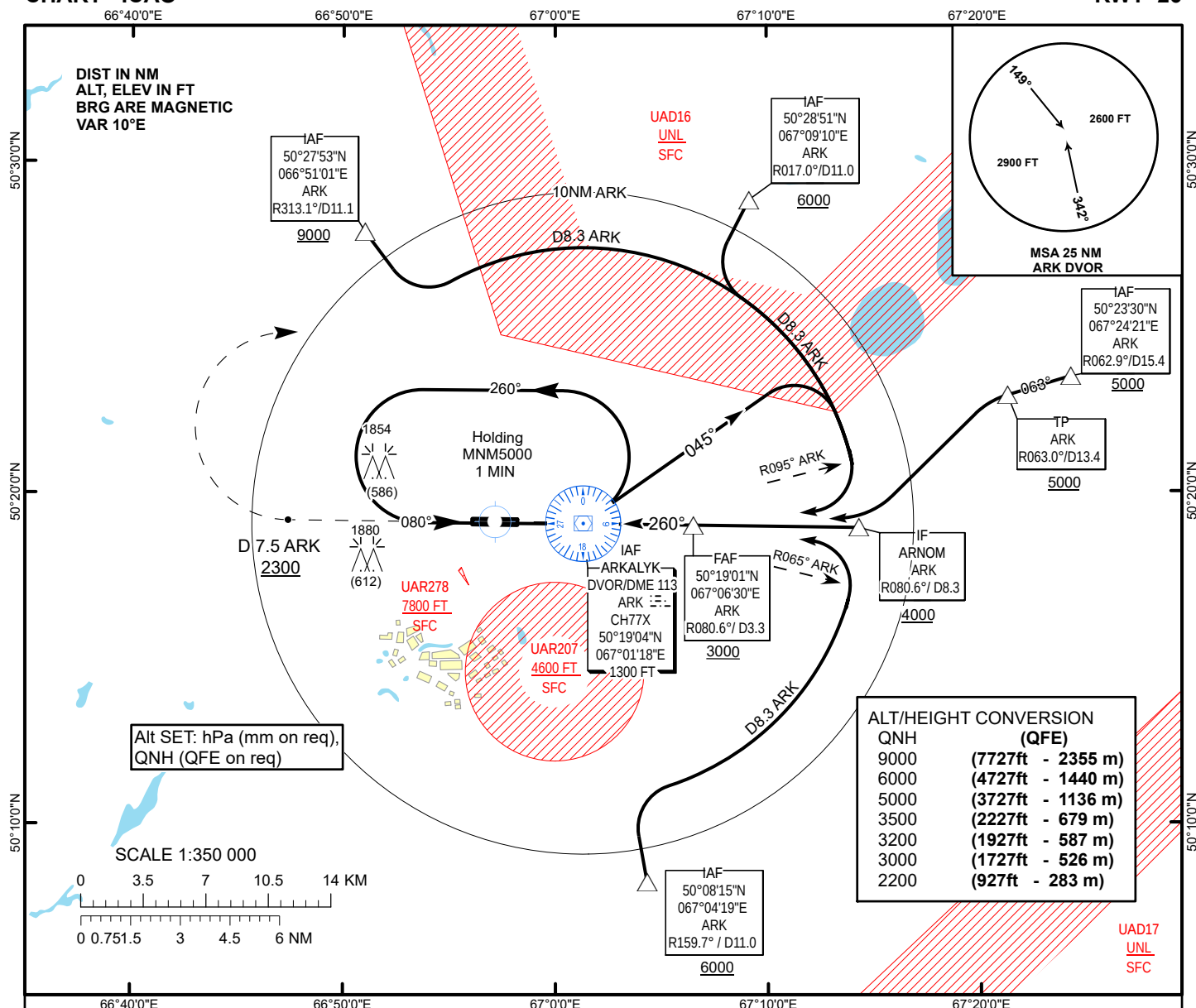
VOR/DME approach to RWY08 from ARK DVOR/DME	
Fix/point	Coordinates
ARK DVOR/DME	50° 19' 04.18"N 067° 01' 17.93"E
(FAF) D 8.6NM ARK	50° 19' 10.64"N 066° 47' 47.89"E
(SDF) D6.1NM ARK	50° 19' 10.02"N 066° 51' 45.02"E
RENZU (IF) D13.7NM ARK	50° 19' 13.66"N 066° 39' 59.61"E
THR RWY 08	50° 19' 07.92"N 066° 56' 05.39"E
Final approach descent angle is 3°	

INSTRUMENT
APPROACH
CHART - ICAO

AERODROME ELEV 1273 FT
HEIGHTS RELATED TO
AD ELEV

ARKALYK TOWER 129.3
ARKALYK ATIS (EN) 126.8
ARKALYK ATIS (RU) 126.8

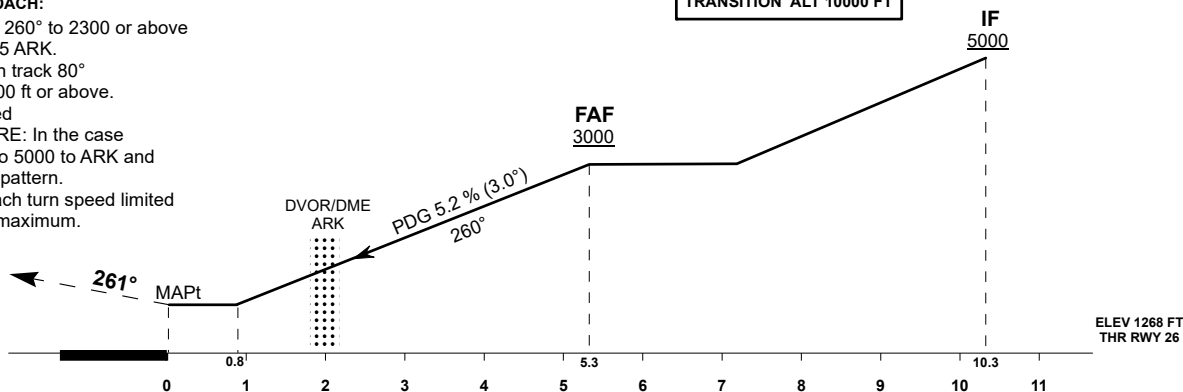
ARKALYK
VOR/DME
RWY 26



MISSED APPROACH:

Climb on track 260° to 2300 or above
outbound to 7.5 ARK.
Turn RIGHT on track 80°
climbing to 5000 ft or above.
then as directed
RADIO FAILURE: In the case
of RCF climb to 5000 to ARK and
join to holding pattern.
Missed approach turn speed limited
to 200 Kt IAS maximum.

TRANSITION ALT 10000 FT



OCA (OCH)		A	B	C	D
Straight-in Approach OCA/H	VOR/DME	1573(300)			

DIST THR	5.3	5	4	3	2	1
DME ARK	3.3	3	2	1	0	1
ALTITUDE	3000	2915	2595	2275	1955	1641
HEIGHT	(1727)	(1642)	(1322)	(1002)	(682)	(368)

GS	Kt	80	100	120	140	160	180
Rate of descent (5.2%)	ft/min	420	530	640	740	850	950
FAF-MAPT (5.3 NM)	min:sec	3:58	3:11	2:39	2:16	1:59	1:46

CHANGE: New chart.

VOR/DME

AERONAUTICAL DATA TABULATION

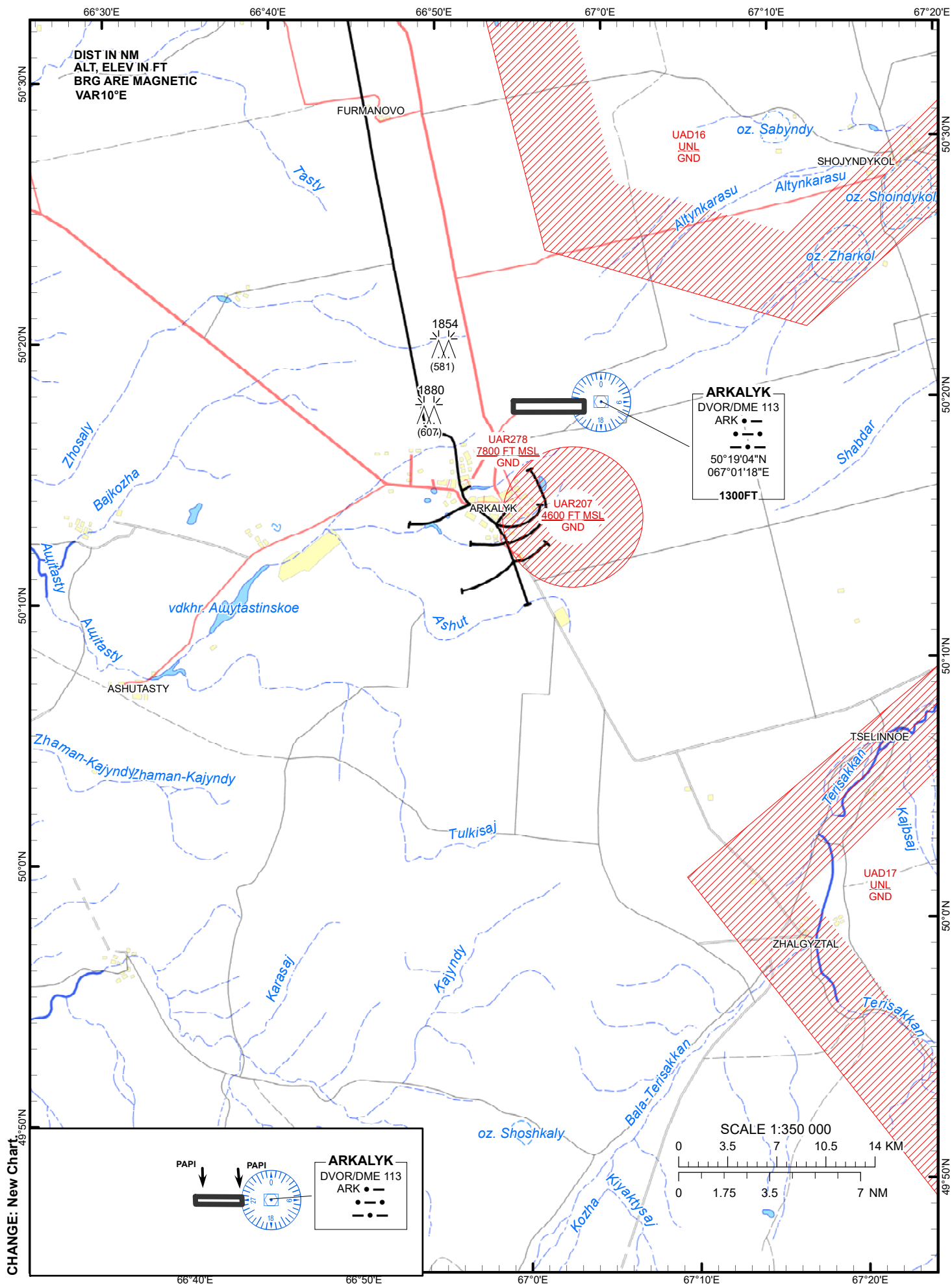
VOR/DME approach to RWY26 from ARK DVOR/DME	
Fix/point	Coordinates
ARK DVOR/DME	50° 19' 04.18"N 067° 01' 17.93"E
ARNOM (IF) D8.3NM ARK	50° 18' 56.47"N 067° 14' 18.62"E
(FAF) D3.3NM ARK	50° 19' 01.27"N 067° 06' 30.43"E
THR RWY 26	43° 52' 03.01"N 051° 04' 29.51"E
Final approach descent angle is 3°	

**VISUAL
APPROACH
CHART - ICAO**

AERODROME ELEV 1273 FT
HEIGHTS RELATED TO
AD ELEV

ARKALYK TOWER 129.3
ARKALYK ATIS (EN) 126.8
ARKALYK ATIS (RU) 126.8

ARKALYK



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