Page 1
Changed chart(s) since Disc 22-2010
ADD = Added chart, REV = Revised chart, DEL = Deleted chart.

ACT	PROCEDURE IDENT	INDEX	REV DATE	EFF DATE

No revision activity since Disc 22-2010

TERMINAL CHART NOTAMs

Chart NOTAMs for Airport UAKK

Type: Terminal
Effectivity: Temporary
Begin Date: Immediately
End Date: Until Further Notice

LDA/GS rwy 23 changed to 10724' (3269m).

General Info

Karaganda, KAZ
N 49° 40.3' E 73° 20.2' Mag Var: 8.4°E
Elevation: 1765'

Public, IFR, Control Tower, Customs
Fuel: Jet, Jet A-1
Repairs: Minor Airframe, Minor Engine

Time Zone Info: GMT+6:00 no DST

Runway Info

Runway 05-23 11818' x 197' concrete

Runway 05 (50.0°M) TDZE 1765'
  Lights: Edge, ALS
Runway 23 (230.0°M) TDZE 1752'
  Lights: Edge, ALS

Communications Info

Karaganda Tower **118.3**
Karaganda Taxing Ground Control **118.3** MF
Karaganda Approach Control **122.0**
Unknown **127.8** Non-English

Notebook Info

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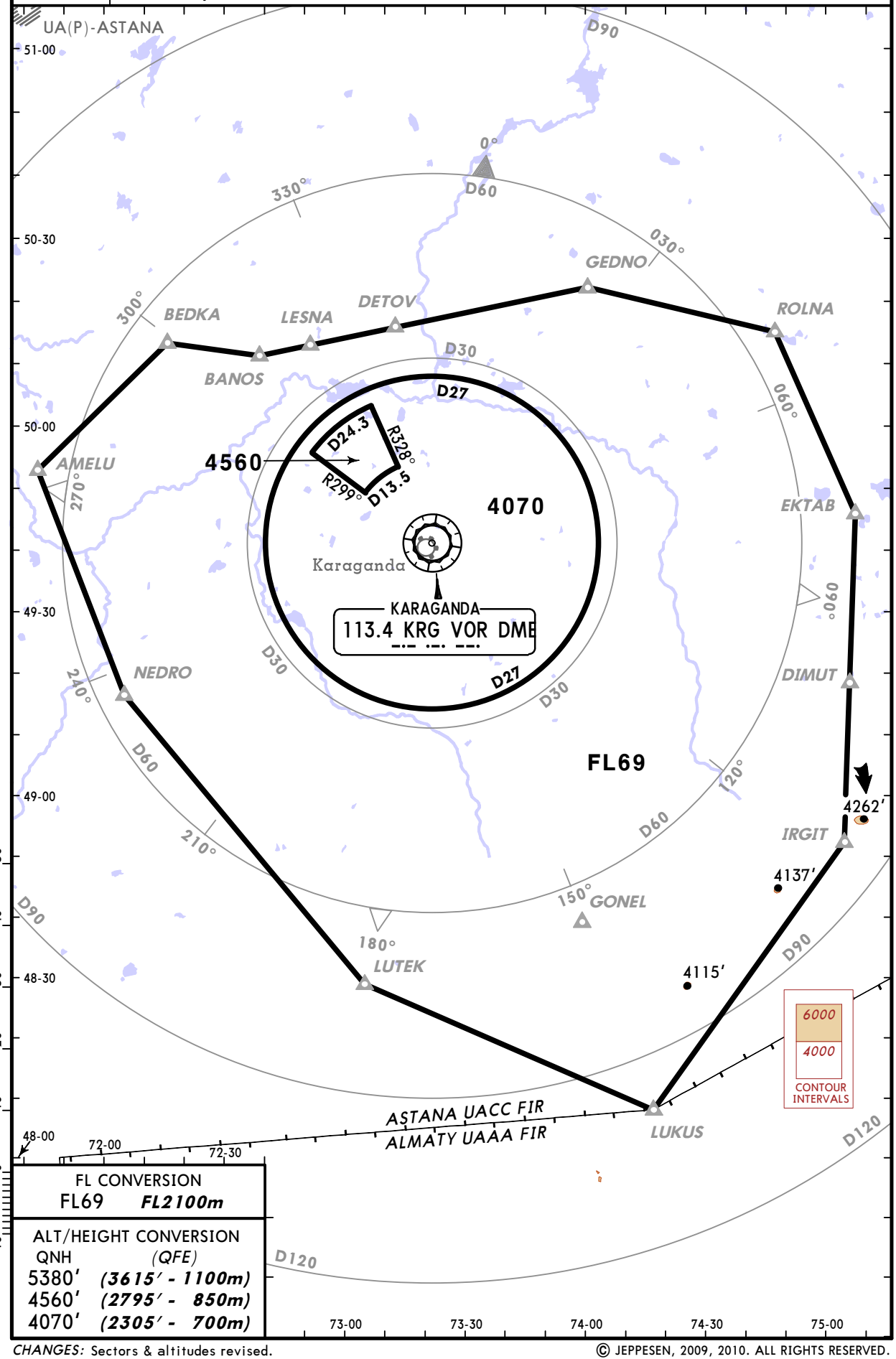
UAKK/KGF KARAGANDA

JEPPESEN **KARAGANDA, KAZAKHSTAN**

2 APR 10 (10-1R) Eff 8 Apr **RADAR MINIMUM ALTITUDES**

Apt Elev 1765′	Alt Set: MM (hPa on request) QNH on request **(QFE)** Trans level: FL69 Trans alt: 5380′ ***(3615′)*** 1. This chart may only be used for cross-checking of altitudes assigned while under radar control. 2. Levels assigned by ATC include a correction for low temperature effect if necessary.



FL CONVERSION	
FL69	***FL2100m***

ALT/HEIGHT CONVERSION	
QNH	*(QFE)*
5380′	***(3615′ - 1100m)***
4560′	***(2795′ - 850m)***
4070′	***(2305′ - 700m)***

CHANGES: Sectors & altitudes revised.

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UAKK/KGF
KARAGANDA

JEPPESEN KARAGANDA, KAZAKHSTAN

2 APR 10 10-2 Eff 8 Apr STAR

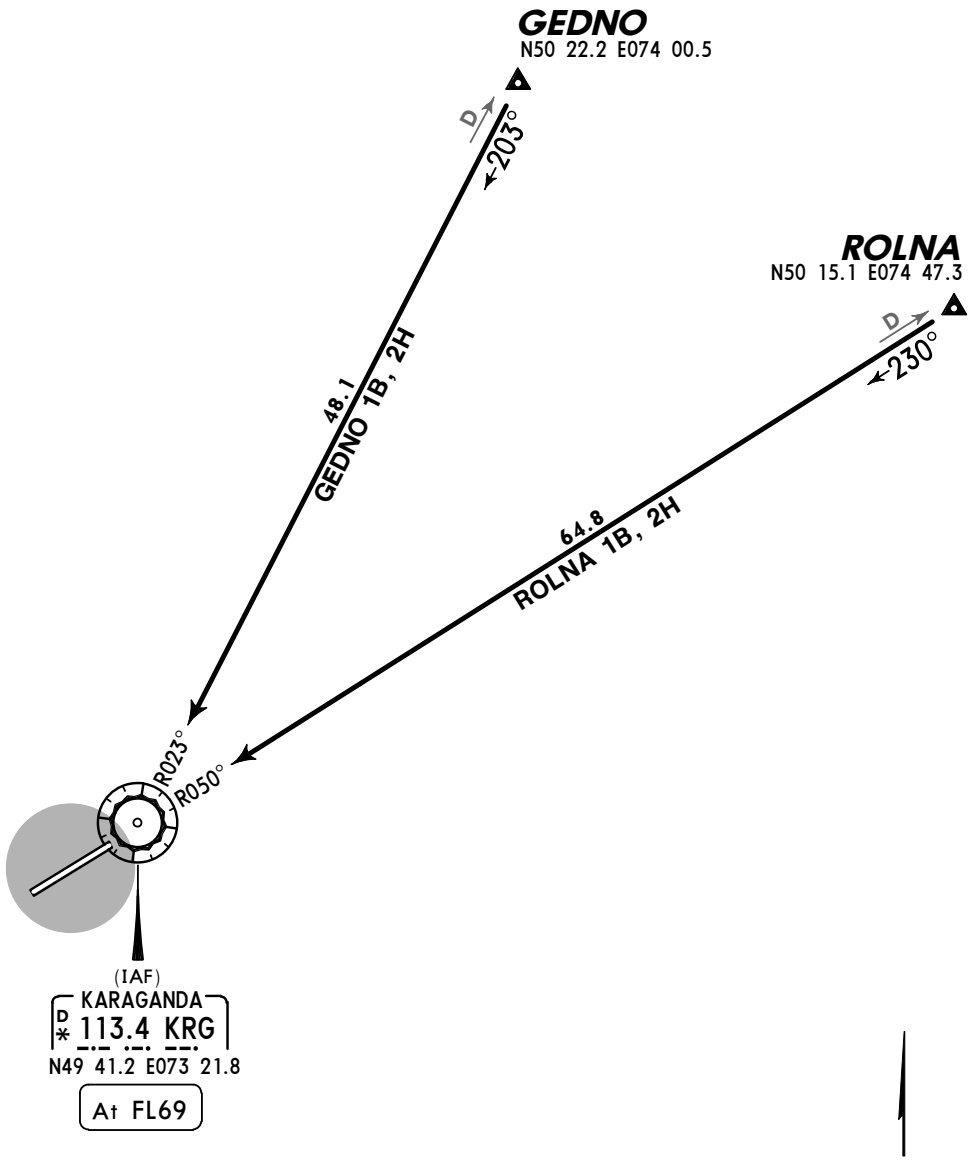
Apt Elev 1765′	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL69 Trans alt: 5380′ *(3615′)* Crossing altitudes at airway exit points by ATC.

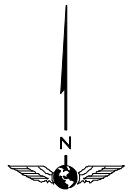
5000′
MSA
KRG VOR

GEDNO 1B *[GEDN1B]*, ROLNA 1B *[ROLN1B]*
RWY 05 ARRIVALS

GEDNO 2H *[GEDN2H]*, ROLNA 2H *[ROLN2H]*
RWY 23 ARRIVALS

FROM NORTHEAST
BASED ON KRG

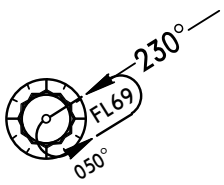




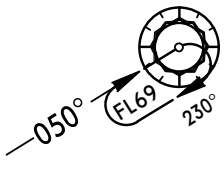
NOT TO SCALE

HOLDINGS OVER KRG

Runway 05



Runway 23



FL CONVERSION	
FL69	*FL2100m*

ALT/HEIGHT CONVERSION	
QNH	*(QFE)*
5380′	*(3615′ - 1100m)*

CHANGES: STARs transferred; MSA.

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UAKK/KGF
KARAGANDA

JEPPESEN KARAGANDA, KAZAKHSTAN

2 APR 10 10-2A Eff 8 Apr

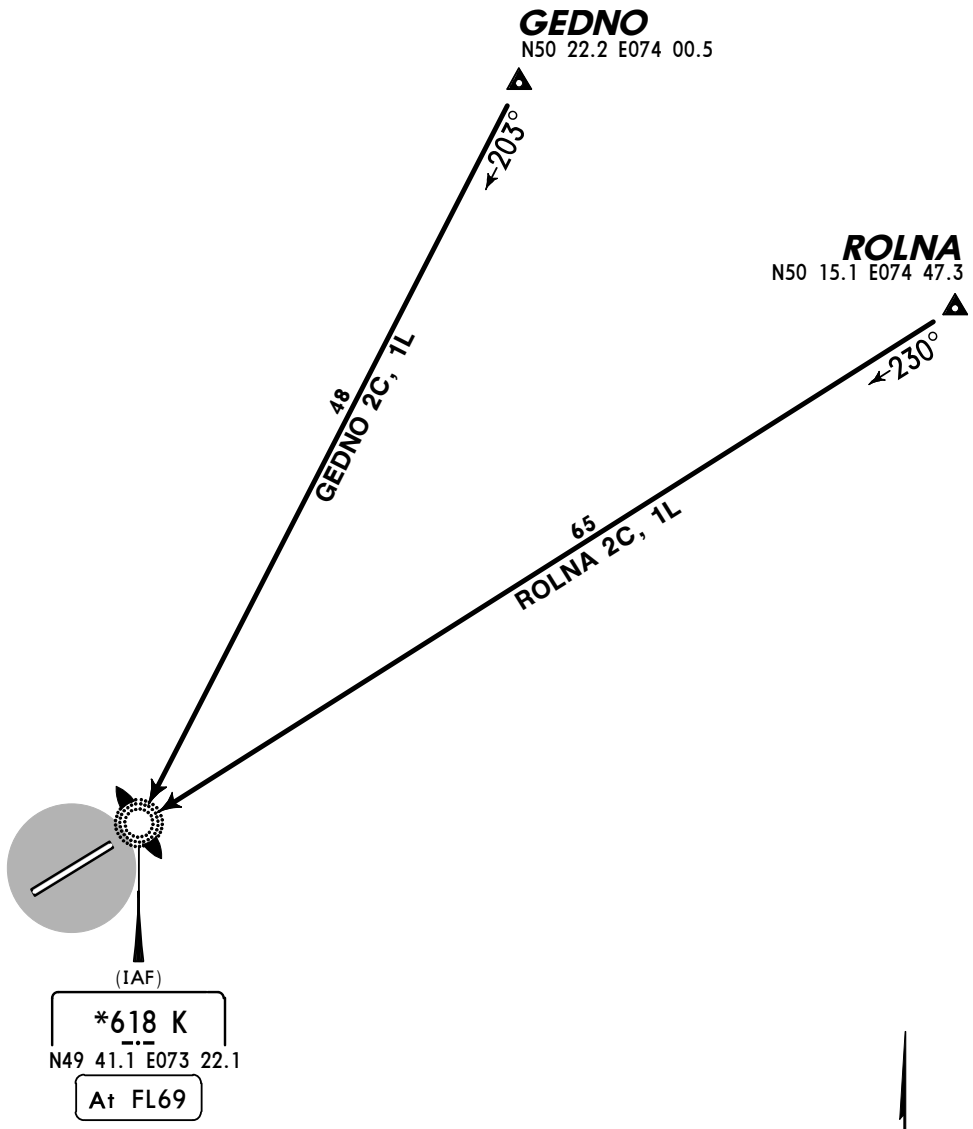
STAR

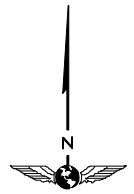
Apt Elev 1765′	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL69 Trans alt: 5380′ *(3615′)* Crossing altitudes at airway exit points by ATC.

5000′
MSA
K Lctr

GEDNO 2C *[GEDN2C]*, ROLNA 2C *[ROLN2C]*
RWY 05 ARRIVALS
GEDNO 1L *[GEDN1L]*, ROLNA 1L *[ROLN1L]*
RWY 23 ARRIVALS

FROM NORTHEAST
BASED ON K

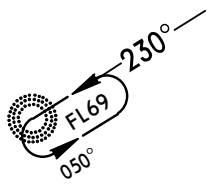




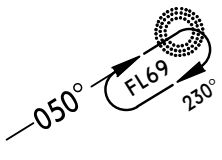
NOT TO SCALE

HOLDINGS OVER K

Runway 05



Runway 23



FL CONVERSION	
FL69	*FL2100m*

ALT/HEIGHT CONVERSION	
QNH	*(QFE)*
5380′	*(3615′ - 1100m)*

CHANGES: STARs transferred, revised & renumbered; MSA.

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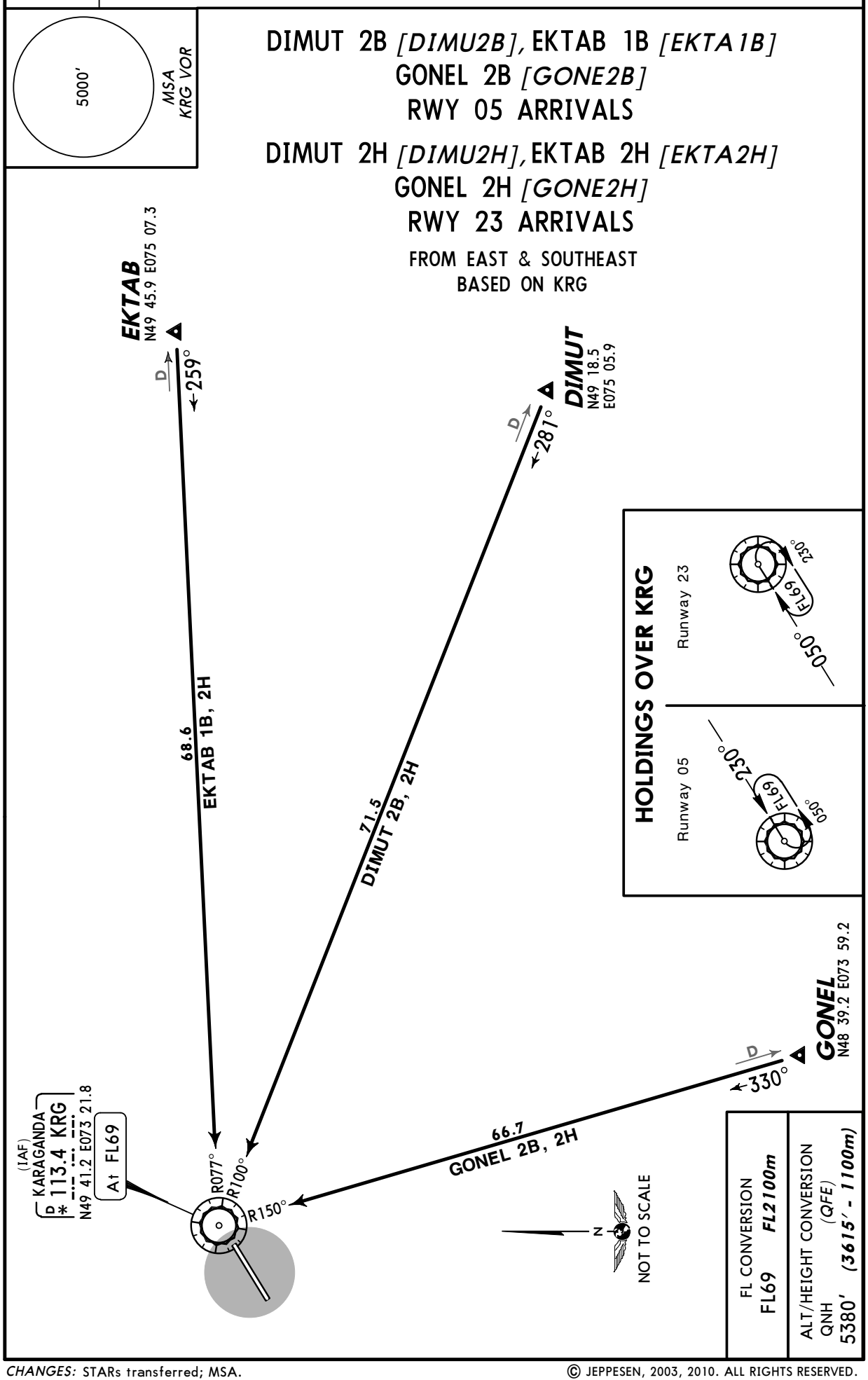
UAKK/KGF KARAGANDA

JEPPESEN **KARAGANDA, KAZAKHSTAN**

2 APR 10 (10-2B) Eff 8 Apr **STAR**

Apt Elev 1765′	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL69 Trans alt: 5380′ *(3615′)* Crossing altitudes at airway exit points by ATC.



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JeppView 3.7.2.1

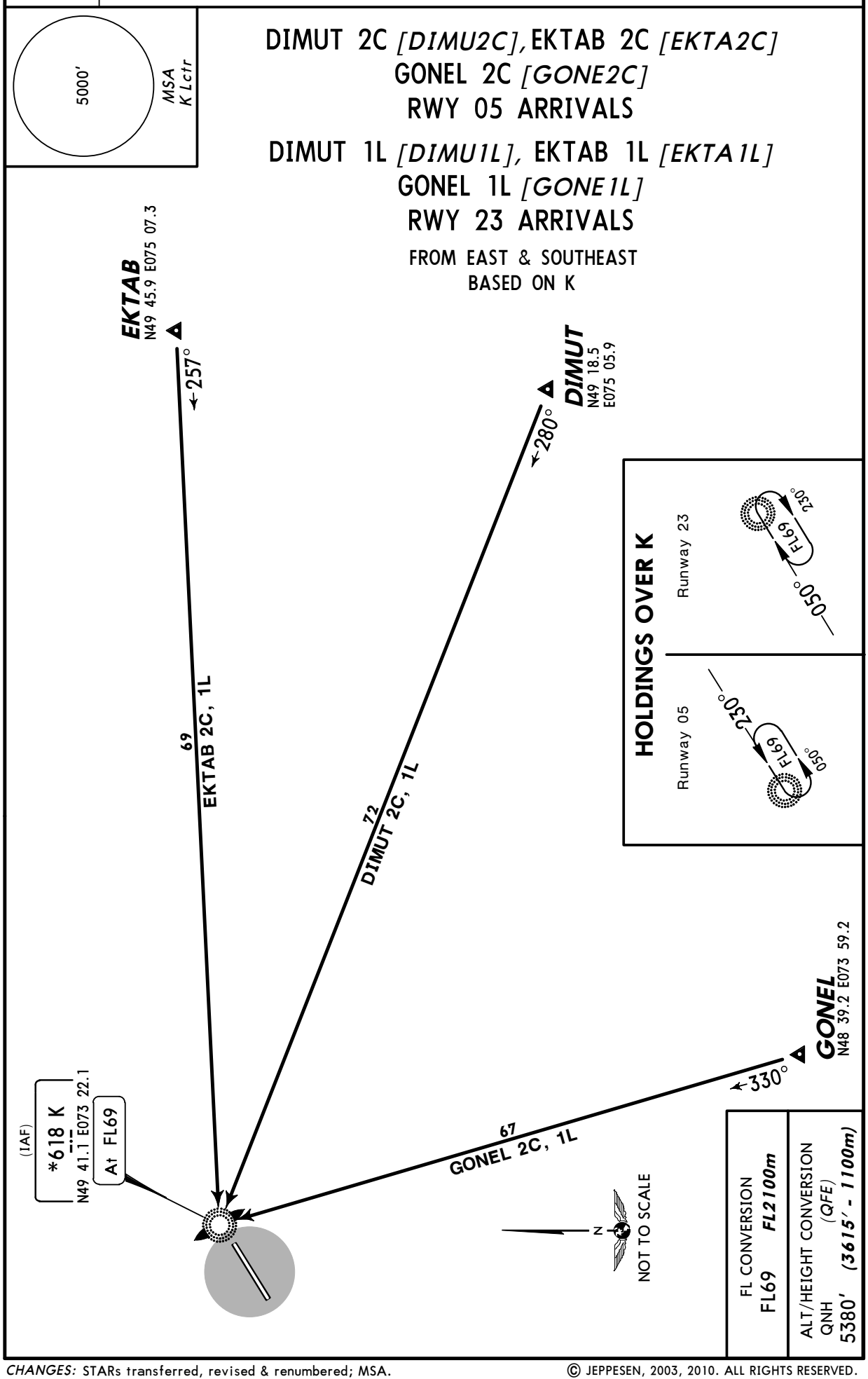
UAKK/KGF KARAGANDA

JEPPESEN KARAGANDA, KAZAKHSTAN

2 APR 10 (10-2C) Eff 8 Apr

STAR

Apt Elev 1765′	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL69 Trans alt: 5380′ *(3615′)* Crossing altitudes at airway exit points by ATC.



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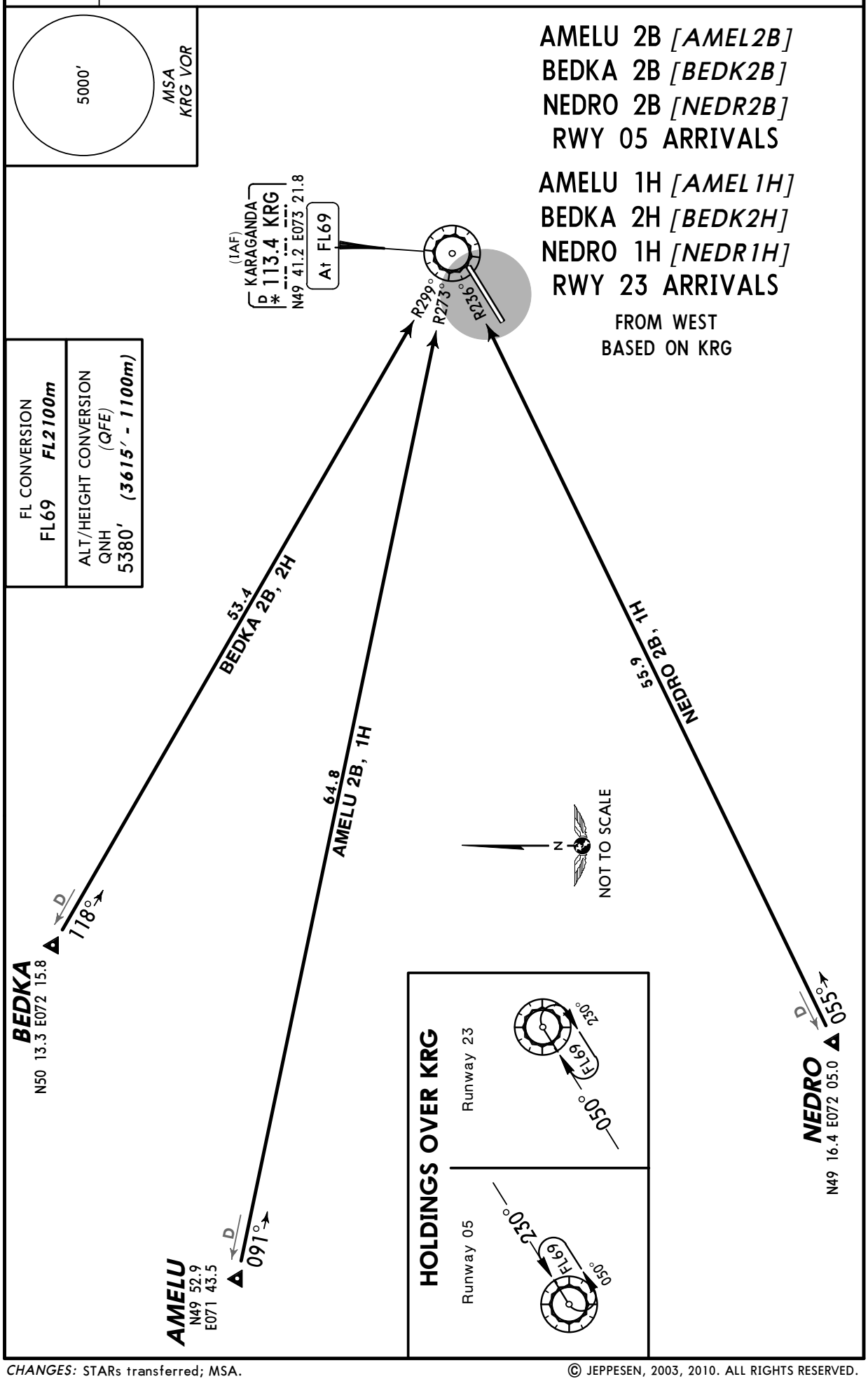
JeppView 3.7.2.1

UAKK/KGF KARAGANDA

JEPPESEN **KARAGANDA, KAZAKHSTAN**

2 APR 10 (10-2D) Eff 8 Apr **STAR**

Apt Elev 1765′	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL69 Trans alt: 5380′ *(3615′)* Crossing altitudes at airway exit points by ATC.



CHANGES: STARs transferred; MSA.

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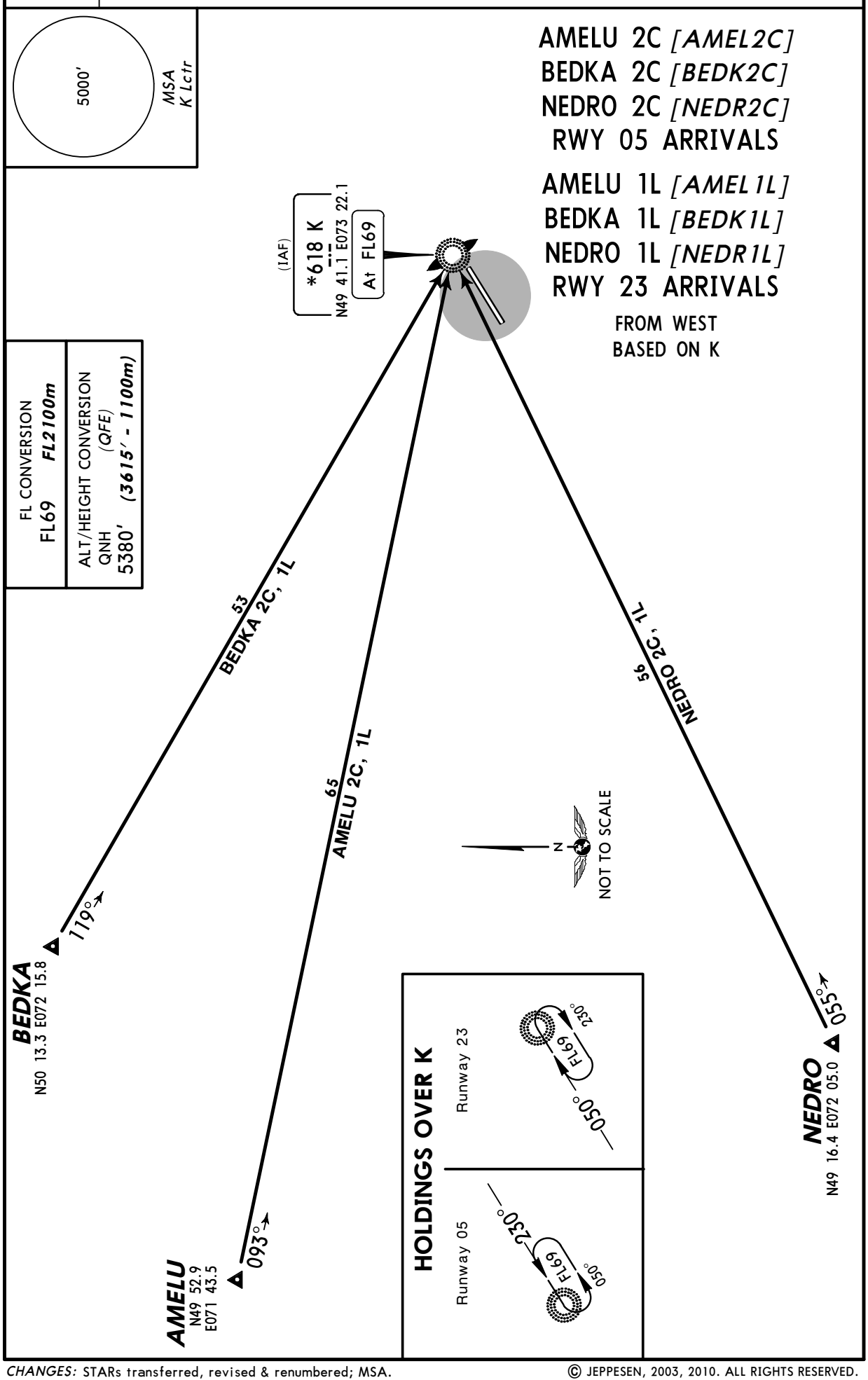
JeppView 3.7.2.1

UAKK/KGF KARAGANDA

JEPPESEN **KARAGANDA, KAZAKHSTAN**

2 APR 10 (10-2E) Eff 8 Apr **STAR**

Apt Elev 1765′	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL69 Trans alt: 5380′ *(3615′)* Crossing altitudes at airway exit points by ATC.



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UAKK/KGF
KARAGANDA

JEPPESEN KARAGANDA, KAZAKHSTAN

2 APR 10 (10-2F) Eff 8 Apr

STAR

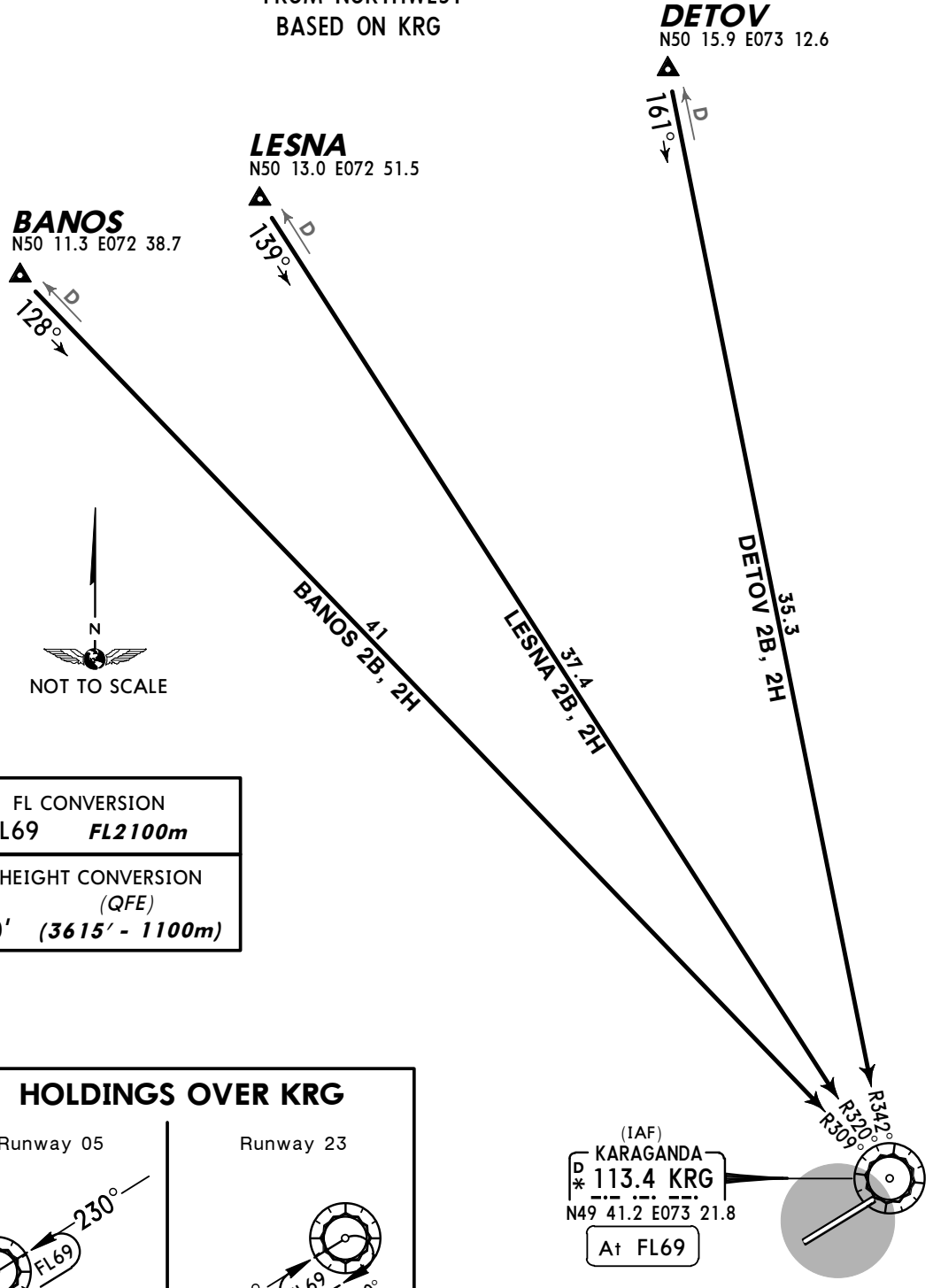
Apt Elev 1765′	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL69 Trans alt: 5380′ *(3615′)* Crossing altitudes at airway exit points by ATC.

5000′
MSA
KRG VOR

BANOS 2B *[BANO2B]*, DETOV 2B *[DETO2B]*
LESNA 2B *[LESN2B]*
RWY 05 ARRIVALS

BANOS 2H *[BANO2H]*, DETOV 2H *[DETO2H]*
LESNA 2H *[LESN2H]*
RWY 23 ARRIVALS

FROM NORTHWEST
BASED ON KRG

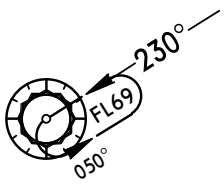


FL CONVERSION	
FL69	*FL2100m*

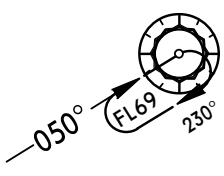
ALT/HEIGHT CONVERSION	
QNH	*(QFE)*
5380′	*(3615′ - 1100m)*

HOLDINGS OVER KRG

Runway 05



Runway 23



CHANGES: STARs transferred; MSA.

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UAKK/KGF
KARAGANDA

JEPPESEN KARAGANDA, KAZAKHSTAN

2 APR 10 (10-2G) Eff 8 Apr

STAR

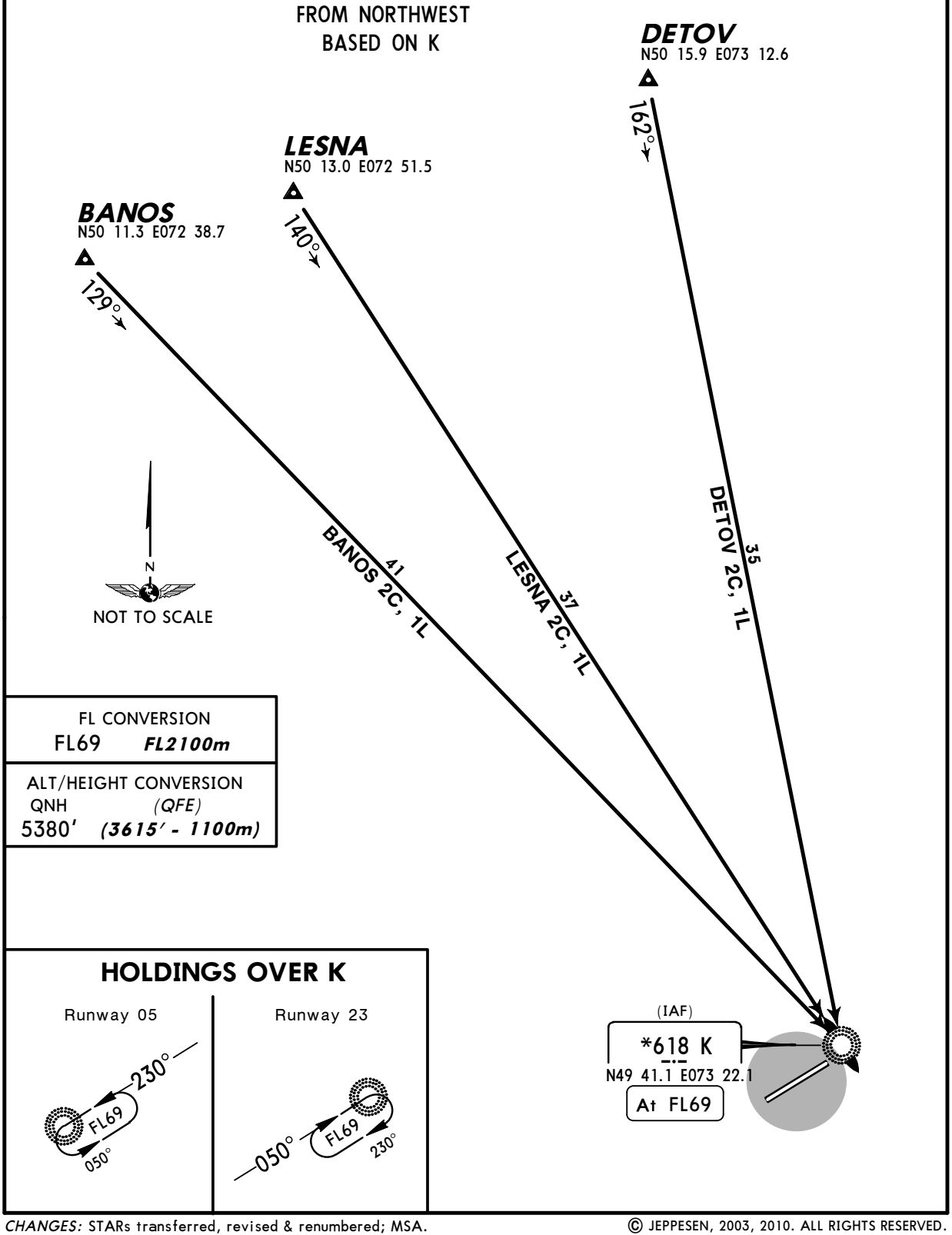
Apt Elev 1765′	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL69 Trans alt: 5380′ *(3615′)* Crossing altitudes at airway exit points by ATC.

5000′
MSA
K Lctr

BANOS 2C *[BANO2C]*, DETOV 2C *[DETO2C]*
LESNA 2C *[LESN2C]*
RWY 05 ARRIVALS

BANOS 1L *[BANO1L]*, DETOV 1L *[DETO1L]*
LESNA 1L *[LESN1L]*
RWY 23 ARRIVALS

FROM NORTHWEST
BASED ON K



FL CONVERSION	
FL69	*FL2100m*

ALT/HEIGHT CONVERSION	
QNH	*(QFE)*
5380′	*(3615′ - 1100m)*

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UAKK/KGF KARAGANDA

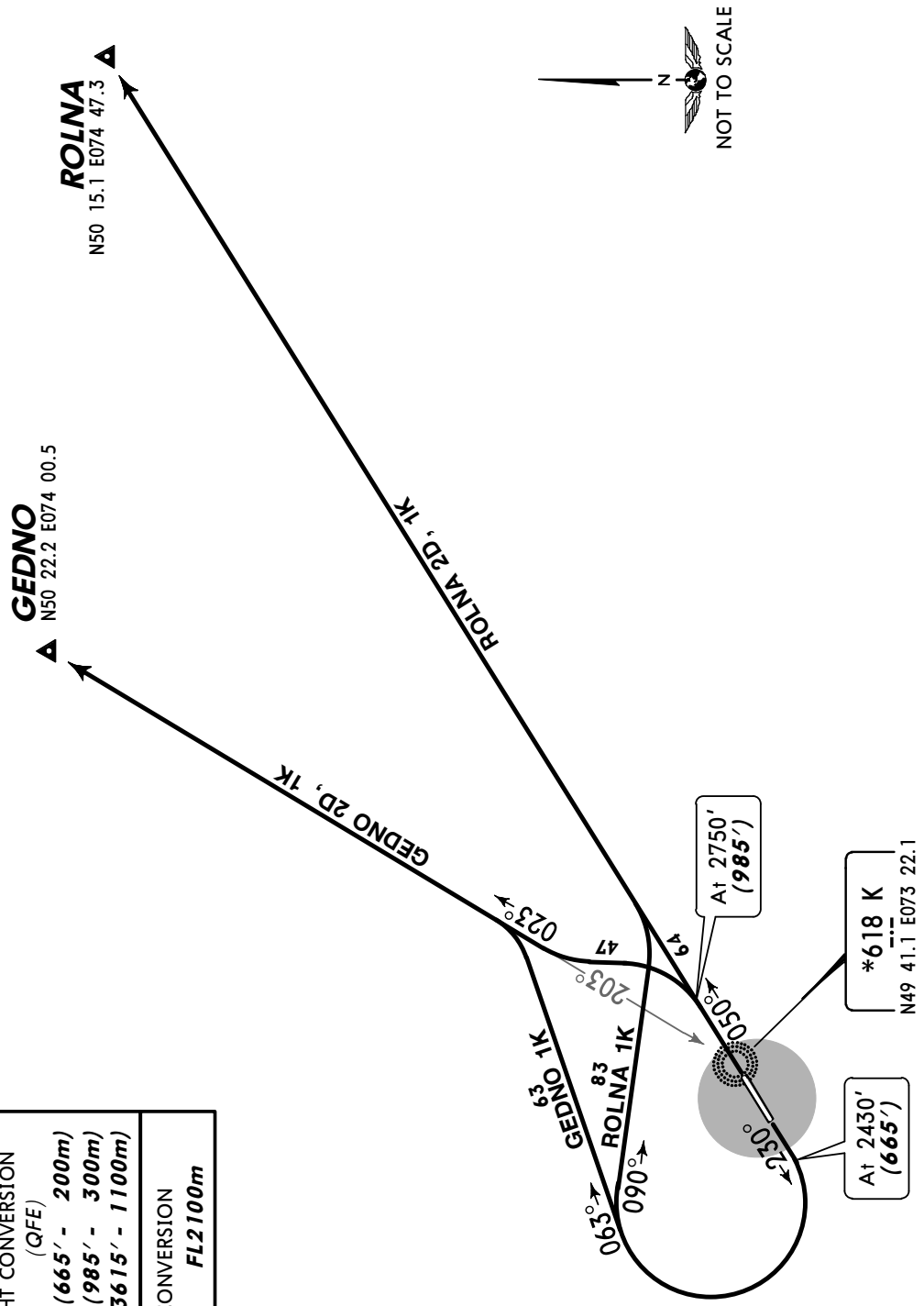
JEPPESEN KARAGANDA, KAZAKHSTAN

2 APR 10 | 10-3 | Eff 8 Apr | SID

Apt Elev 1765′	QNH on request **(QFE)** Trans level: FL69 Trans alt: 5380′ ***(3615′)*** Crossing altitudes at airway entry points by ATC.

5000′ MSA K Lctr

GEDNO 2D *[GEDN2D]*, GEDNO 1K *[GEDN1K]*
ROLNA 2D *[ROLN2D]*, ROLNA 1K *[ROLN1K]*
RWYS 05, 23 DEPARTURES
TO NORTHEAST
BASED ON K



SID	RWY	ROUTING
GEDNO 2D	05	Climb to 2750′ ***(985′)***, turn LEFT, intercept 023° bearing from K to GEDNO.
GEDNO 1K	23	Climb to 2430′ ***(665′)***, turn RIGHT, 063° track, intercept 023° bearing from K to GEDNO.
ROLNA 2D	05	Climb to 2750′ ***(985′)***, then to ROLNA.
ROLNA 1K	23	Climb to 2430′ ***(665′)***, turn RIGHT, 090° track, intercept 050° bearing from K to ROLNA.

ALT/HEIGHT CONVERSION
QNH (QFE)
2430′ ***(665′ - 200m)***
2750′ ***(985′ - 300m)***
5380′ ***(3615′ - 1100m)***

FL CONVERSION
FL69 ***FL2100m***

CHANGES: SIDs renumbered & revised; MSA; chart reindexed.

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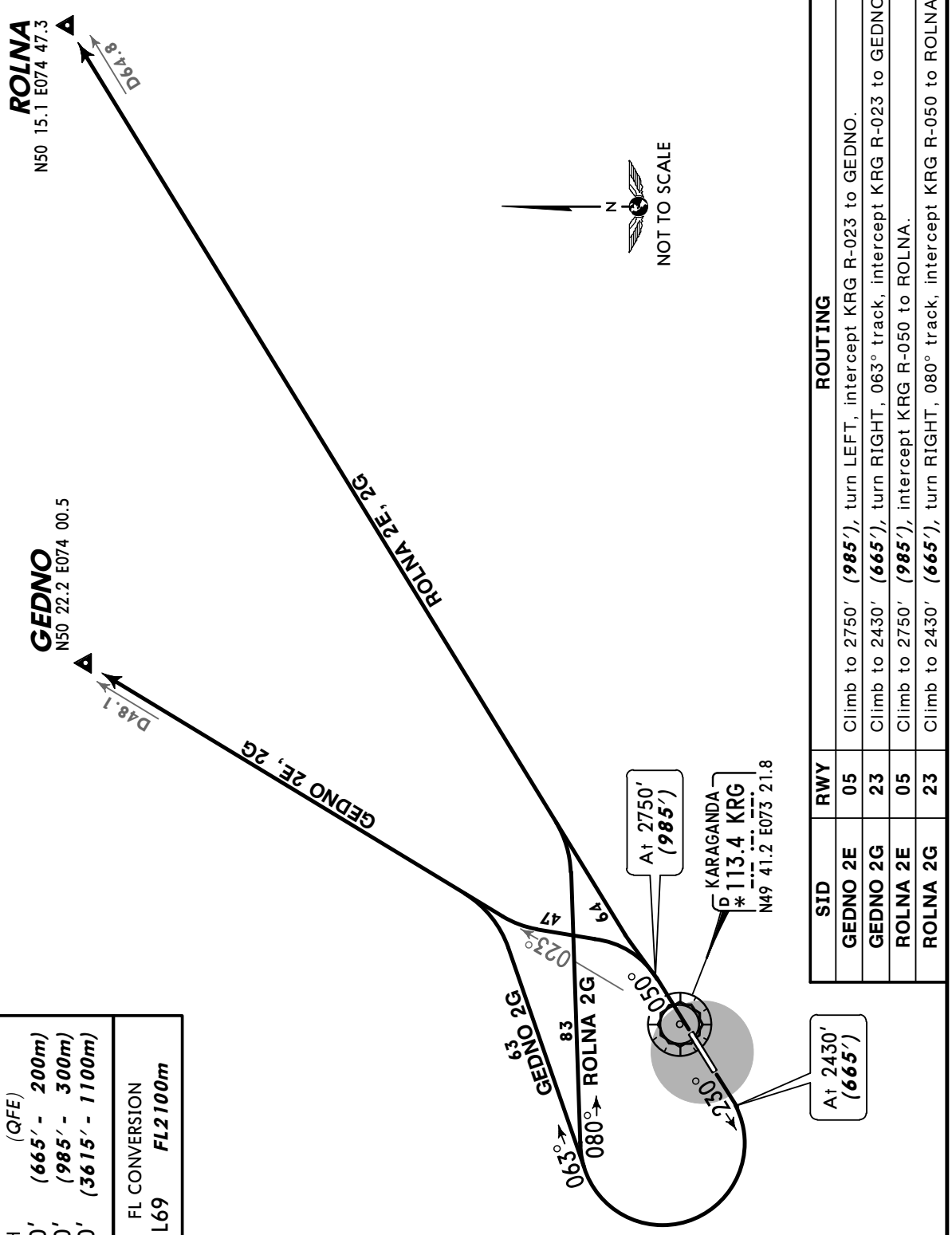
UAKK/KGF KARAGANDA

JEPPESEN **KARAGANDA, KAZAKHSTAN**

2 APR 10 (10-3A) **Eff 8 Apr** **SID**

Apt Elev 1765′	QNH on request **(QFE)** Trans level: FL69 Trans alt: 5380′ ***(3615′)*** Crossing altitudes at airway entry points by ATC.

GEDNO 2E *[GEDN2E]*, GEDNO 2G *[GEDN2G]*
ROLNA 2E *[ROLN2E]*, ROLNA 2G *[ROLN2G]*
RWYS 05, 23 DEPARTURES
TO NORTHEAST
BASED ON KRG



SID	RWY	ROUTING
GEDNO 2E	05	Climb to 2750′ ***(985′)***, turn LEFT, intercept KRG R-023 to GEDNO.
GEDNO 2G	23	Climb to 2430′ ***(665′)***, turn RIGHT, 063° track, intercept KRG R-023 to GEDNO.
ROLNA 2E	05	Climb to 2750′ ***(985′)***, intercept KRG R-050 to ROLNA.
ROLNA 2G	23	Climb to 2430′ ***(665′)***, turn RIGHT, 080° track, intercept KRG R-050 to ROLNA.

ALT/HEIGHT CONVERSION
QNH (QFE)
2430′ ***(665′ - 200m)***
2750′ ***(985′ - 300m)***
5380′ ***(3615′ - 1100m)***

FL CONVERSION
FL69 ***FL2100m***

CHANGES: MSA; chart reindexed.

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UAKK/KGF
KARAGANDA

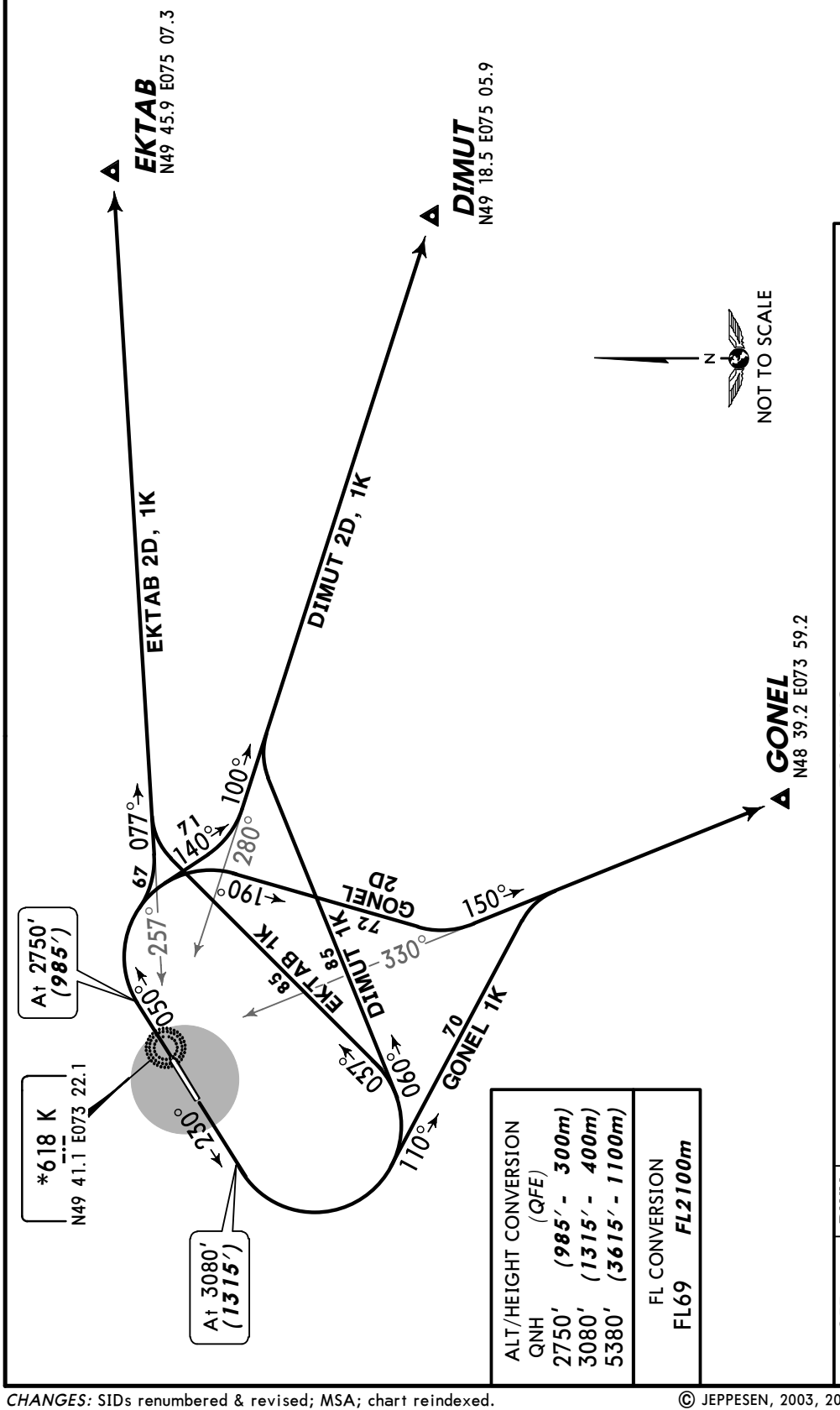
JEPPESEN KARAGANDA, KAZAKHSTAN

2 APR 10 (10-3B) Eff 8 Apr SID

Apt Elev	
1765′	QNH on request **(QFE)** Trans level: FL69 Trans alt: 5380′ ***(3615′)*** Crossing altitudes at airway entry points by ATC.

5000′ MSA K Lctr

DIMUT 2D *[DIMU2D]*, DIMUT 1K *[DIMU1K]*
EKTAB 2D *[EKTA2D]*, EKTAB 1K *[EKTA1K]*
GONEL 2D *[GONE2D]*, GONEL 1K *[GONE1K]*
RWYS 05, 23 DEPARTURES
TO EAST & SOUTHEAST
BASED ON K



ALT/HEIGHT CONVERSION
QNH (QFE)
2750′ ***(985′ - 300m)***
3080′ ***(1315′ - 400m)***
5380′ ***(3615′ - 1100m)***

FL CONVERSION
FL69 ***FL2100m***

SID	RWY	ROUTING
DIMUT 2D	**05**	Climb to 2750′ ***(985′)***, turn RIGHT, 140° track, intercept 100° bearing from K to DIMUT.
DIMUT 1K	**23**	Climb to 3080′ ***(1315′)***, turn LEFT, 060° track, intercept 100° bearing from K to DIMUT.
EKTAB 2D	**05**	Climb to 2750′ ***(985′)***, turn RIGHT, intercept 077° bearing from K to EKTAB.
EKTAB 1K	**23**	Climb to 3080′ ***(1315′)***, turn LEFT, 037° track, intercept 077° bearing from K to EKTAB.
GONEL 2D	**05**	Climb to 2750′ ***(985′)***, turn RIGHT, 190° track, intercept 150° bearing from K to GONEL.
GONEL 1K	**23**	Climb to 3080′ ***(1315′)***, turn LEFT, 110° track, intercept 150° bearing from K to GONEL.

CHANGES: SIDs renumbered & revised; MSA; chart reindexed.

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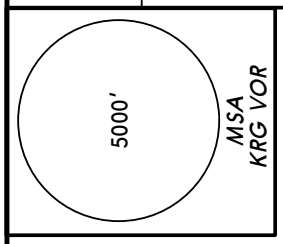
UAKK/KGF KARAGANDA

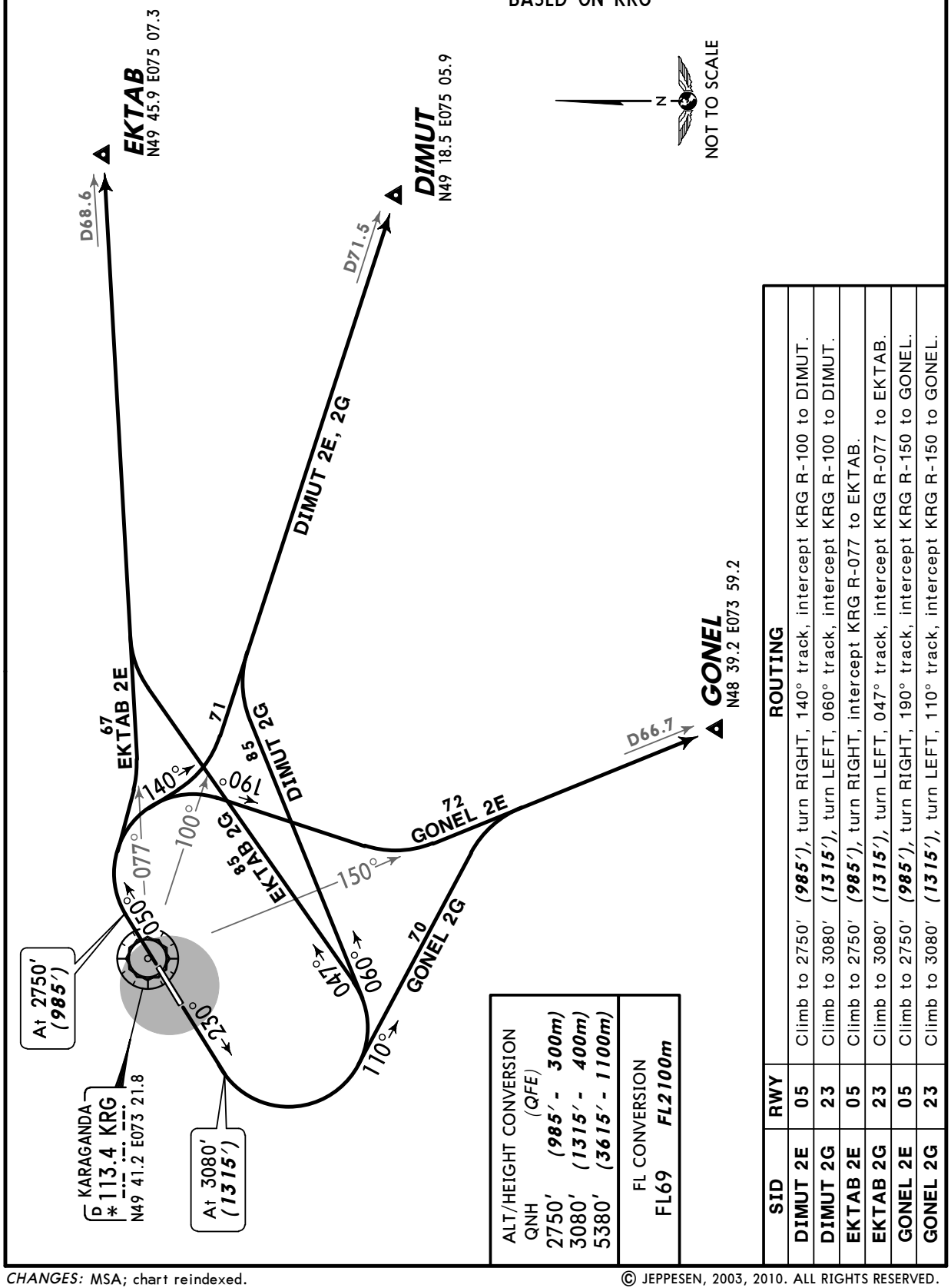
JEPPESEN KARAGANDA, KAZAKHSTAN

2 APR 10 (10-3C) Eff 8 Apr SID

Apt Elev 1765′	QNH on request **(QFE)** Trans level: FL69 Trans alt: 5380′ ***(3615′)*** Crossing altitudes at airway entry points by ATC.



DIMUT 2E *[DIMU2E]*, DIMUT 2G *[DIMU2G]*
EKTAB 2E *[EKTA2E]*, EKTAB 2G *[EKTA2G]*
GONEL 2E *[GONE2E]*, GONEL 2G *[GONE2G]*
RWYS 05, 23 DEPARTURES
TO EAST & SOUTHEAST
BASED ON KRG



ALT/HEIGHT CONVERSION QNH	(QFE)
2750′	***(985′ - 300m)***
3080′	***(1315′ - 400m)***
5380′	***(3615′ - 1100m)***

FL CONVERSION
FL69 ***FL2100m***

SID	RWY	ROUTING
DIMUT 2E	**05**	Climb to 2750′ ***(985′)***, turn RIGHT, 140° track, intercept KRG R-100 to DIMUT.
DIMUT 2G	**23**	Climb to 3080′ ***(1315′)***, turn LEFT, 060° track, intercept KRG R-100 to DIMUT.
EKTAB 2E	**05**	Climb to 2750′ ***(985′)***, turn RIGHT, intercept KRG R-077 to EKTAB.
EKTAB 2G	**23**	Climb to 3080′ ***(1315′)***, turn LEFT, 047° track, intercept KRG R-077 to EKTAB.
GONEL 2E	**05**	Climb to 2750′ ***(985′)***, turn RIGHT, 190° track, intercept KRG R-150 to GONEL.
GONEL 2G	**23**	Climb to 3080′ ***(1315′)***, turn LEFT, 110° track, intercept KRG R-150 to GONEL.

CHANGES: MSA; chart reindexed.

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UAKK/KGF KARAGANDA

JEPPESEN KARAGANDA, KAZAKHSTAN

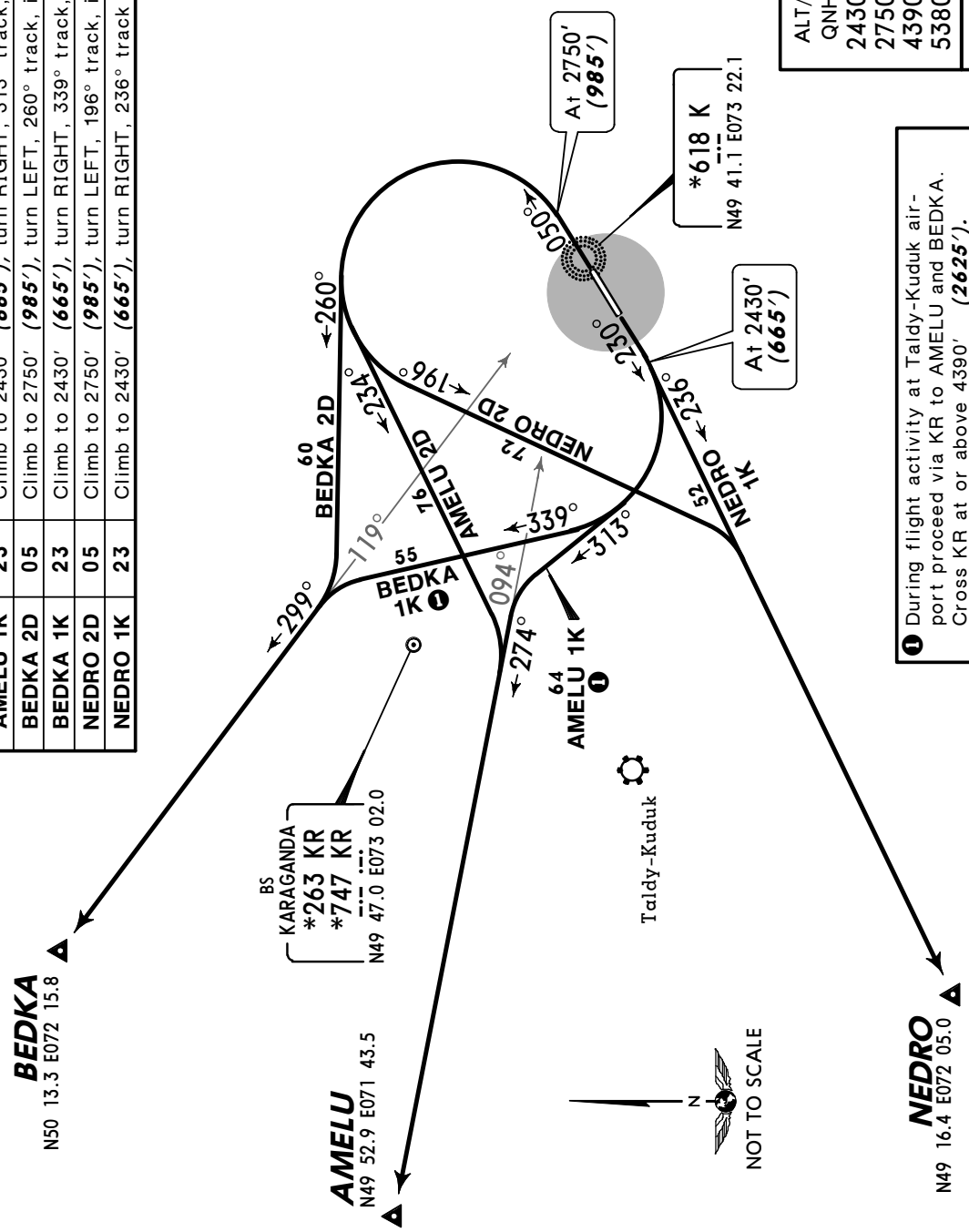
2 APR 10 (10-3D) Eff 8 Apr SID

Apt Elev	
1765′	QNH on request **(QFE)** Trans level: FL69 Trans alt: 5380′ ***(3615′)*** Crossing altitudes at airway entry points by ATC.

AMELU 2D *[AMEL2D]*
AMELU 1K *[AMEL1K]*
BEDKA 2D *[BEDK2D]*
BEDKA 1K *[BEDK1K]*
NEDRO 2D *[NEDR2D]*
NEDRO 1K *[NEDR1K]*
RWYS 05, 23 DEPARTURES
TO WEST
BASED ON K

ROUTING

SID	RWY	
AMELU 2D	05	Climb to 2750′ ***(985′)***, turn LEFT, 234° track, intercept 274° bearing from K to AMELU.
AMELU 1K	23	Climb to 2430′ ***(665′)***, turn RIGHT, 313° track, intercept 274° bearing from K to AMELU.
BEDKA 2D	05	Climb to 2750′ ***(985′)***, turn LEFT, 260° track, intercept 299° bearing from K to BEDKA.
BEDKA 1K	23	Climb to 2430′ ***(665′)***, turn RIGHT, 339° track, intercept 299° bearing from K to BEDKA.
NEDRO 2D	05	Climb to 2750′ ***(985′)***, turn LEFT, 196° track, intercept 236° bearing from K to NEDRO.
NEDRO 1K	23	Climb to 2430′ ***(665′)***, turn RIGHT, 236° track to NEDRO.



CHANGES: SIDs renumbered & revised; MSA; chart reindexed.

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UAKK/KGF KARAGANDA

JEPPESEN KARAGANDA, KAZAKHSTAN

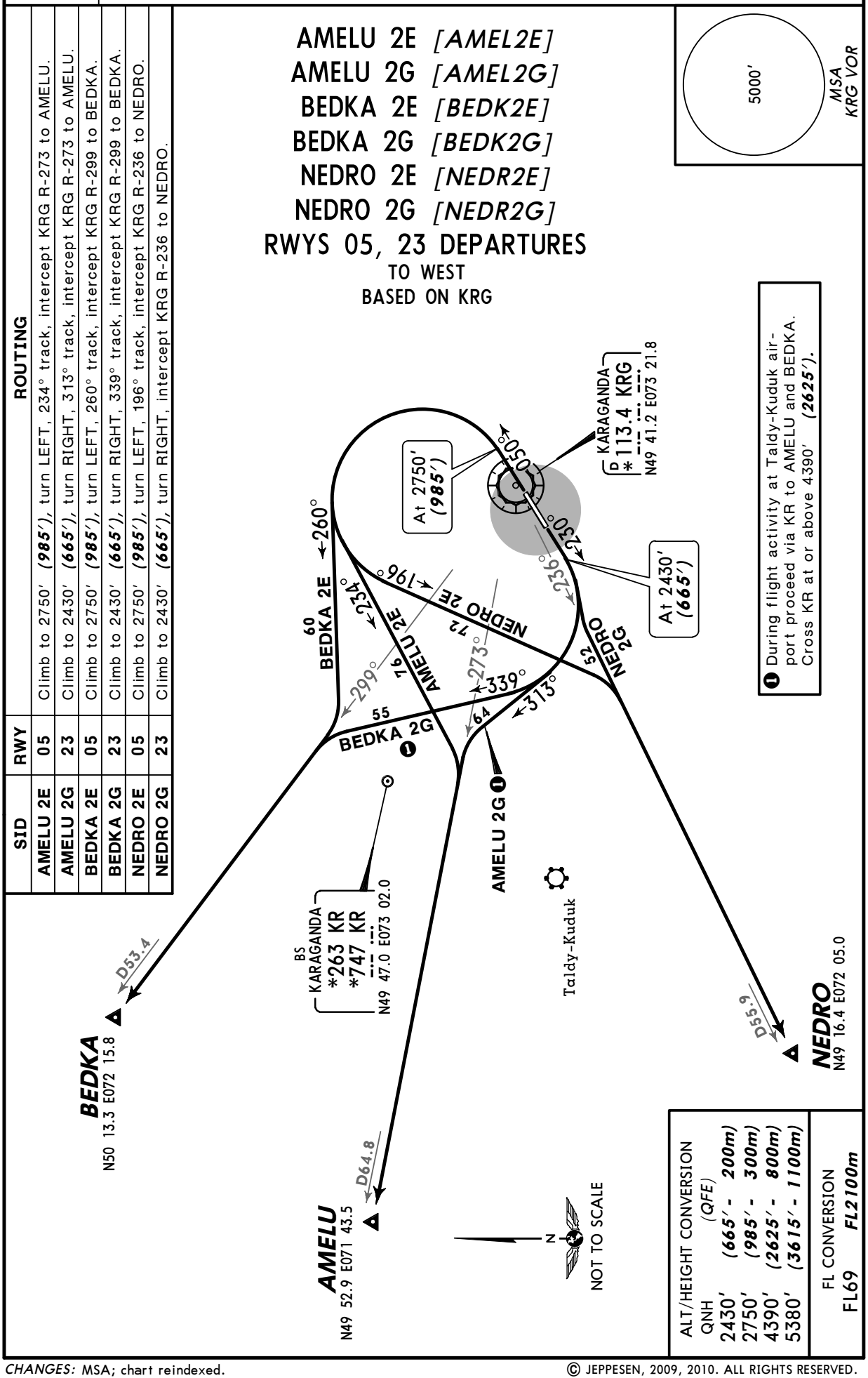
2 APR 10 (10-3E) Eff 8 Apr **SID**

Apt Elev	
1765′	QNH on request **(QFE)** Trans level: FL69 Trans alt: 5380′ ***(3615′)*** Crossing altitudes at airway entry points by ATC.

AMELU 2E *[AMEL2E]*
AMELU 2G *[AMEL2G]*
BEDKA 2E *[BEDK2E]*
BEDKA 2G *[BEDK2G]*
NEDRO 2E *[NEDR2E]*
NEDRO 2G *[NEDR2G]*
RWYS 05, 23 DEPARTURES
TO WEST
BASED ON KRG

ROUTING

SID	RWY	
AMELU 2E	05	Climb to 2750′ ***(985′)***, turn LEFT, 234° track, intercept KRG R-273 to AMELU.
AMELU 2G	23	Climb to 2430′ ***(665′)***, turn RIGHT, 313° track, intercept KRG R-273 to AMELU.
BEDKA 2E	05	Climb to 2750′ ***(985′)***, turn LEFT, 260° track, intercept KRG R-299 to BEDKA.
BEDKA 2G	23	Climb to 2430′ ***(665′)***, turn RIGHT, 339° track, intercept KRG R-299 to BEDKA.
NEDRO 2E	05	Climb to 2750′ ***(985′)***, turn LEFT, 196° track, intercept KRG R-236 to NEDRO.
NEDRO 2G	23	Climb to 2430′ ***(665′)***, turn RIGHT, intercept KRG R-236 to NEDRO.



ALT/HEIGHT CONVERSION	
QNH	*(QFE)*
2430′	***(665′ - 200m)***
2750′	***(985′ - 300m)***
4390′	***(2625′ - 800m)***
5380′	***(3615′ - 1100m)***

FL CONVERSION
FL69 ***FL2100m***

CHANGES: MSA; chart reindexed.

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UAKK/KGF KARAGANDA

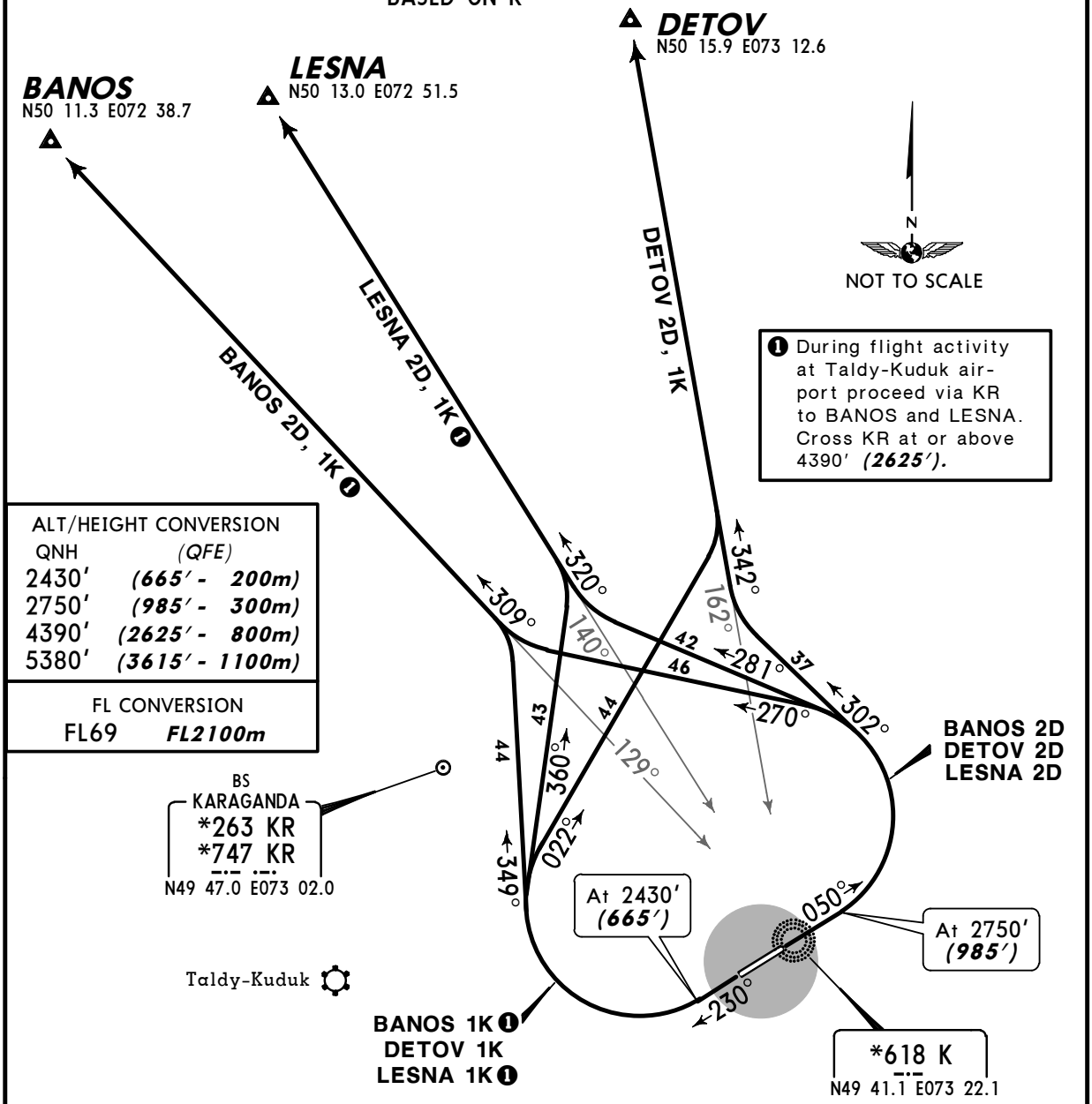
JEPPESEN KARAGANDA, KAZAKHSTAN

2 APR 10 (10-3F) Eff 8 Apr SID

Apt Elev 1765′	QNH on request **(QFE)** Trans level: FL69 Trans alt: 5380′ ***(3615′)*** Crossing altitudes at airway entry points by ATC.

5000′
MSA
K Lctr

BANOS 2D *[BANO2D]*, BANOS 1K *[BANO1K]*
DETOV 2D *[DETO2D]*, DETOV 1K *[DETO1K]*
LESNA 2D *[LESN2D]*, LESNA 1K *[LESN1K]*
RWYS 05, 23 DEPARTURES
TO NORTHWEST
BASED ON K



SID	RWY	ROUTING
BANOS 2D	**05**	Climb to 2750′ ***(985′)***, turn LEFT, 270° track, intercept 309° bearing from K to BANOS.
BANOS 1K	**23**	Climb to 2430′ ***(665′)***, turn RIGHT, 349° track, intercept 309° bearing from K to BANOS.
DETOV 2D	**05**	Climb to 2750′ ***(985′)***, turn LEFT, 302° track, intercept 342° bearing from K to DETOV.
DETOV 1K	**23**	Climb to 2430′ ***(665′)***, turn RIGHT, 022° track, intercept 342° bearing from K to DETOV.
LESNA 2D	**05**	Climb to 2750′ ***(985′)***, turn LEFT, 281° track, intercept 320° bearing from K to LESNA.
LESNA 1K	**23**	Climb to 2430′ ***(665′)***, turn RIGHT, 360° track, intercept 320° bearing from K to LESNA.

CHANGES: SIDs renumbered & revised; MSA; chart reindexed.

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UAKK/KGF KARAGANDA

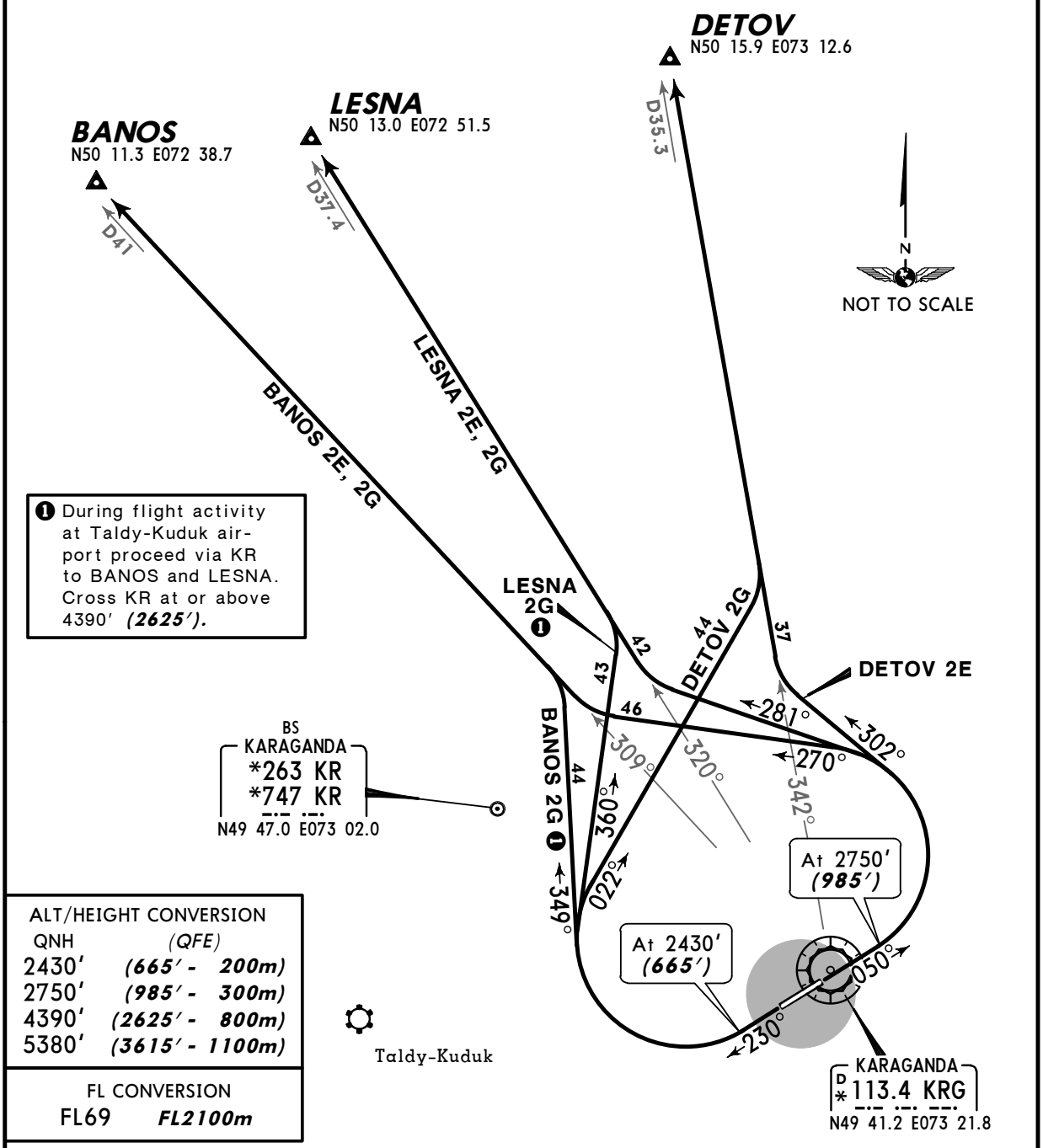
JEPPESEN KARAGANDA, KAZAKHSTAN

2 APR 10 (10-3G) Eff 8 Apr SID

Apt Elev 1765′	QNH on request **(QFE)** Trans level: FL69 Trans alt: 5380′ ***(3615′)*** Crossing altitudes at airway entry points by ATC.

5000′
MSA
KRG VOR

BANOS 2E *[BANO2E]*, BANOS 2G *[BANO2G]*
DETOV 2E *[DETO2E]*, DETOV 2G *[DETO2G]*
LESNA 2E *[LESN2E]*, LESNA 2G *[LESN2G]*
RWYS 05, 23 DEPARTURES
TO NORTHWEST
BASED ON KRG



❶ During flight activity at Taldy-Kuduk airport proceed via KR to BANOS and LESNA. Cross KR at or above 4390′ ***(2625′).***

ALT/HEIGHT CONVERSION

QNH	*(QFE)*
2430′	***(665′ - 200m)***
2750′	***(985′ - 300m)***
4390′	***(2625′ - 800m)***
5380′	***(3615′ - 1100m)***

FL CONVERSION

FL69 ***FL2100m***

SID	RWY	ROUTING
BANOS 2E	**05**	Climb to 2750′ ***(985′)***, turn LEFT, 270° track, intercept KRG R-309 to BANOS.
BANOS 2G	**23**	Climb to 2430′ ***(665′)***, turn RIGHT, 349° track, intercept KRG R-309 to BANOS.
DETOV 2E	**05**	Climb to 2750′ ***(985′)***, turn LEFT, 302° track, intercept KRG R-342 to DETOV.
DETOV 2G	**23**	Climb to 2430′ ***(665′)***, turn RIGHT, 022° track, intercept KRG R-342 to DETOV.
LESNA 2E	**05**	Climb to 2750′ ***(985′)***, turn LEFT, 281° track, intercept KRG R-320 to LESNA.
LESNA 2G	**23**	Climb to 2430′ ***(665′)***, turn RIGHT, 360° track, intercept KRG R-320 to LESNA.

CHANGES: MSA; chart reindexed.

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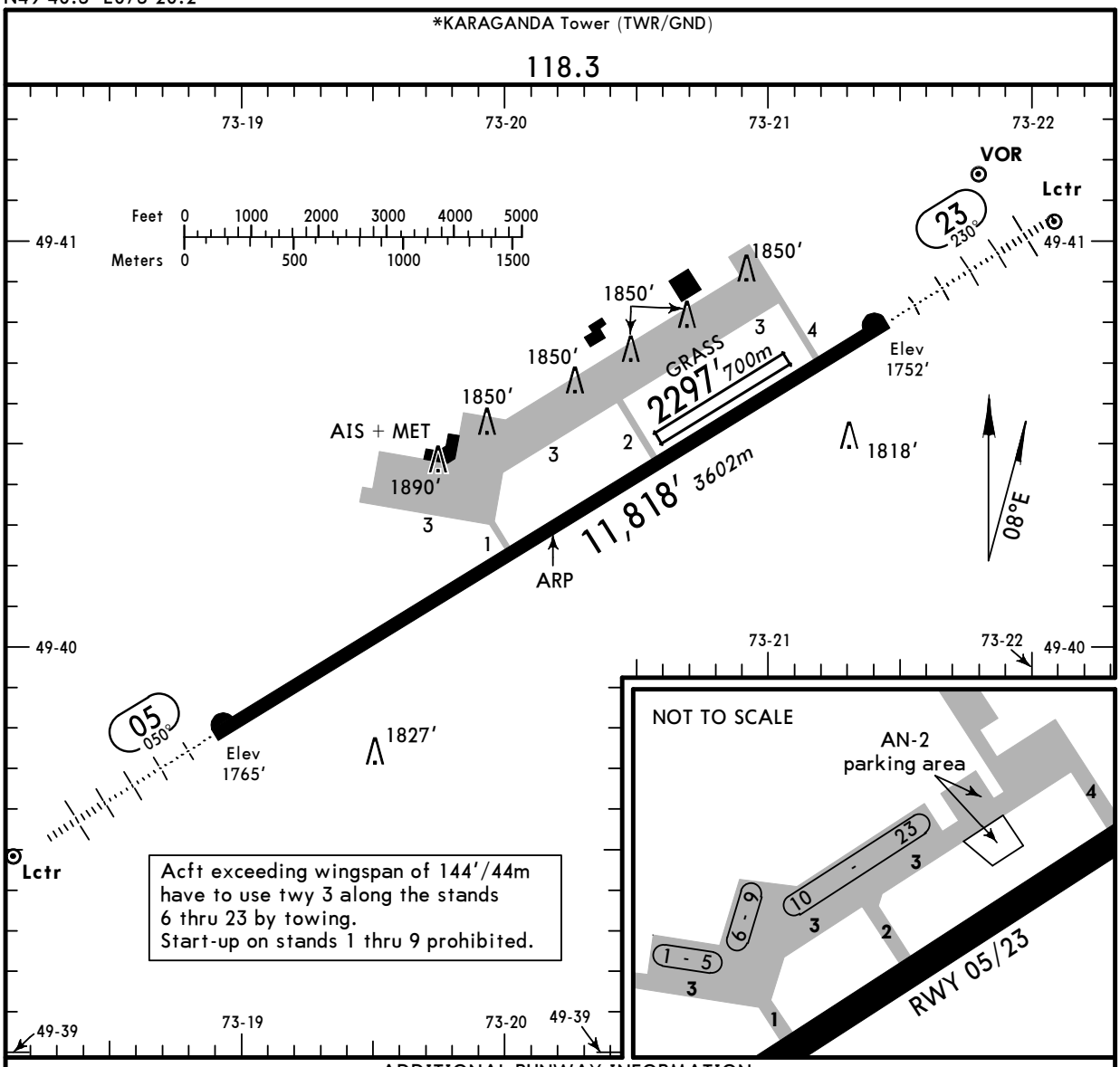
UAKK/KGF

Apt Elev **1765′**
N49 40.3 E073 20.2

JEPPESEN **KARAGANDA, KAZAKHSTAN**

27 MAR 09 (10-9) **Eff 9 Apr**

KARAGANDA



ADDITIONAL RUNWAY INFORMATION

RWY		USABLE LENGTHS LANDING BEYOND Threshold	Glide Slope	TAKE-OFF	WIDTH
05 23	HIRL *(60m)* HIALS PAPI-L(angle 3.00°) RVR		10,664′ *3250m* 9736′ *2967m*		197′ *60m*
05 23	Grass runway				230′ *70m*

TAKE-OFF

AIR CARRIER (JAA)
All Rwys

	DAY RL	DAY RCLM	NIGHT RL
A	*400m* [1]	*400m* [1]	*400m* [1]
B			
C		*500m*	*400m*
D			

[1] LVP must be in force: 300m.

CHANGES: PAPI angle.

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STRAIGHT-IN RWY		A	B	C	D
05	ILS	**1965**′(200′) **800m**	**1965**′(200′) **800m**	**1965**′(200′) **800m**	**1965**′(200′) **800m**
	ALS out	1200m	1200m	1200m	1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	VOR ❶	**2430**′(665′) **2500m**	**2430**′(665′) **2500m**	**2750**′(985′) **5000m**	**2750**′(985′) **5000m**
	2 NDB ❶	**2120**′(355′) **1500m**	**2120**′(355′) **1500m**	**2120**′(355′) **1500m**	**2120**′(355′) **1500m**
	ALS out	1600m	1600m	1600m	1600m
	NDB ❶❷	**2640**′(875′) **3000m**	**2640**′(875′) **3000m**	**2750**′(985′) **5000m**	**2750**′(985′) **5000m**
	NDB ❸	**2640**′(875′) **3500m**	**2640**′(875′) **3500m**	**2750**′(985′) **5000m**	**2750**′(985′) **5000m**
	ALS out	4200m	4200m	5000m	5000m
23	ILS	**1952**′(200′) **800m**	**1952**′(200′) **800m**	**1952**′(200′) **800m**	**1952**′(200′) **800m**
	ALS out	1200m	1200m	1200m	1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	VOR ❶	**2410**′(658′) **2500m**	**2410**′(658′) **2500m**	**2740**′(988′) **5000m**	**2740**′(988′) **5000m**
	2 NDB ❶❷	**2110**′(358′) **1500m**	**2110**′(358′) **1500m**	**2110**′(358′) **1500m**	**2110**′(358′) **1500m**
	ALS out	1500m	1500m	1600m	1600m
	2 NDB ❶❸	**2110**′(358′) **1500m**	**2110**′(358′) **1500m**	**2110**′(358′) **1500m**	**2110**′(358′) **1500m**
	ALS out	1600m	1600m	1600m	1600m
	NDB ❶❷	**2530**′(778′) **3000m**	**2530**′(778′) **3000m**	**2740**′(988′) **5000m**	**2740**′(988′) **5000m**
	NDB ❸	**2530**′(778′) **3100m**	**2530**′(778′) **3100m**	**2740**′(988′) **5000m**	**2740**′(988′) **5000m**
	ALS out	3800m	3800m	5000m	5000m

❶ Continuous Descent Final Approach
❷ with FMS
❸ w/o FMS

TAKE-OFF RWY 05, 23

	DAY			NIGHT
	RL	RCLM	NIL	RL
A	400m ■1	400m ■1	500m	400m ■1
B				
C		500m		400m
D				

■1 LVP must be in force: 300m.

CHANGES: New page.

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UAKK/KGF

JEPPESEN

16 JUL 10
Eff 29 Jul

(10-9X)

JAA MINIMUMS

KARAGANDA, KAZAKHSTAN
KARAGANDA

STRAIGHT-IN RWY		A	B	C	D
05	ILS	**1965′**(200′)	**1965′**(200′)	**1965′**(200′)	**1965′**(200′)
		800m	**800m**	**800m**	**800m**
	ALS out	1000m	1000m	1000m	1000m
	LOC	NOT AUTHORIZED	NOT AUTHORIZED	NOT AUTHORIZED	NOT AUTHORIZED
	VOR DME	**2430′**(665′)	**2430′**(665′)	**2750′**(985′)	**2750′**(985′)
		2500m	**2500m**	**5000m**	**5000m**
	2 NDB	**2110′**(345′)	**2110′**(345′)	**2110′**(345′)	**2110′**(345′)
		1500m	**1500m**	**1500m**	**1500m**
	ALS out	1500m	1500m	1800m	2000m
	NDB	**2640′**(875′)	**2640′**(875′)	**2750′**(985′)	**2750′**(985′)
		3000m	**3000m**	**5000m**	**5000m**
23	ILS	**1952′**(200′)	**1952′**(200′)	**1952′**(200′)	**1952′**(200′)
		800m	**800m**	**800m**	**800m**
	ALS out	1000m	1000m	1000m	1000m
	LOC	NOT AUTHORIZED	NOT AUTHORIZED	NOT AUTHORIZED	NOT AUTHORIZED
	VOR DME	**2410′**(658′)	**2410′**(658′)	**2740′**(988′)	**2740′**(988′)
		2500m	**2500m**	**5000m**	**5000m**
	2 NDB	**2090′**(338′)	**2090′**(338′)	**2090′**(338′)	**2090′**(338′)
		1500m	**1500m**	**1500m**	**1500m**
	ALS out	1500m	1500m	1800m	2000m
	NDB	**2530′**(778′)	**2530′**(778′)	**2740′**(988′)	**2740′**(988′)
		3000m	**3000m**	**5000m**	**5000m**

TAKE-OFF RWY 05, 23

	DAY			NIGHT
	RL	RCLM	NIL	RL
A	*400m* [1]	*400m* [1]	*500m*	*400m* [1]
B				
C		*500m*		*400m*
D				

[1] LVP must be in force: 300m.

CHANGES: 2 NDB 05 added.

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UAKK/KGF KARAGANDA

JEPPESEN 2 APR 10 (11-1) Eff 8 Apr

KARAGANDA, KAZAKHSTAN ILS DME Z Rwy 05

BRIEFING STRIP ™

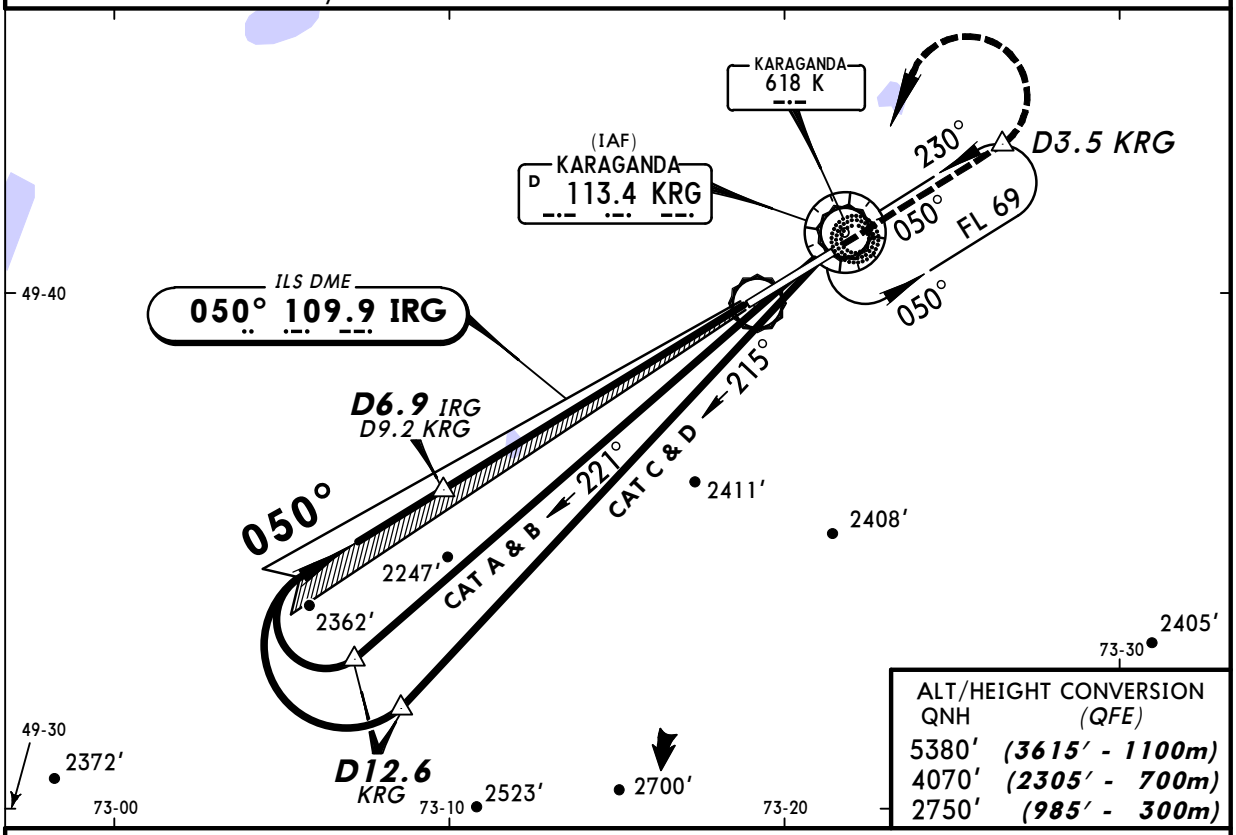
*KARAGANDA Approach	*KARAGANDA Tower	*Ground
122.0	118.3	118.3

LOC IRG	Final Apch Crs	GS D6.9 IRG	ILS DA(H)	Apt Elev 1765'
109.9	050°	4070'(2305')	1965'(200')	RWY 1765'

MISSED APCH: Climb on 050° to 2750' (985') or above to D3.5 KRG, then turn LEFT (MAX 225 KT) to VOR. Climb initially to 4070' (2305'), then as directed.
MISSED APCH WITH COMM FAILURE: Climb to FL 69 to VOR and join holding.

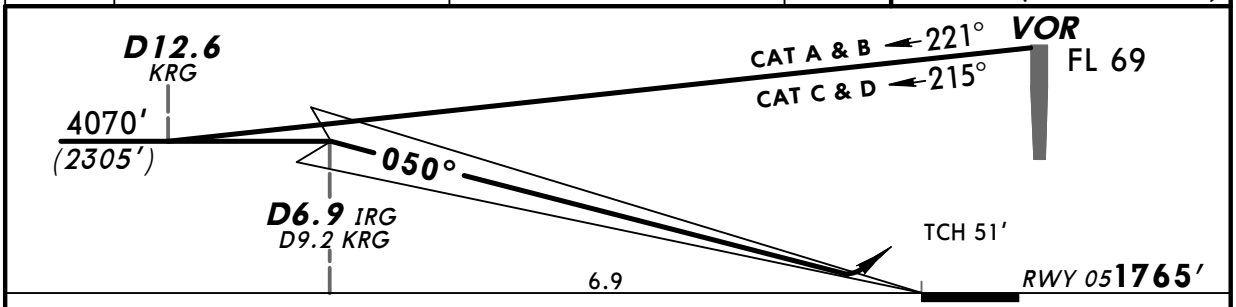
5000'
MSA KRG VOR

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 69 Trans alt: 5380'(3615')
1. Initial apch restricted to MAX 195 KT. 2. Heavy turbulence and windshear may be expected on final.
3. ILS DME reads zero at rwy 05 thresh.



ALT/HEIGHT CONVERSION

QNH	(QFE)
5380'	(3615' - 1100m)
4070'	(2305' - 700m)
2750'	(985' - 300m)



Gnd speed-Kts	70	90	100	120	140	160
GS 3.00°	377	484	538	646	753	861

HIALS
PAPI
2750' (985') on or above
050°
D3.5 KRG

STRAIGHT-IN LANDING RWY 05

	ILS DA(H) 1965'(200') FULL	ILS DA(H) 1965'(200') ALS out	LOC (GS out)
A	800m	1200m	NOT AUTHORIZED
B			
C			
D			

PANS OPS

CHANGES: MSA. Procedure.

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UAKK/KGF KARAGANDA

JEPPESEN 2 APR 10 (11-2) Eff 8 Apr

KARAGANDA, KAZAKHSTAN ILS DME Y Rwy 05

BRIEFING STRIP ™

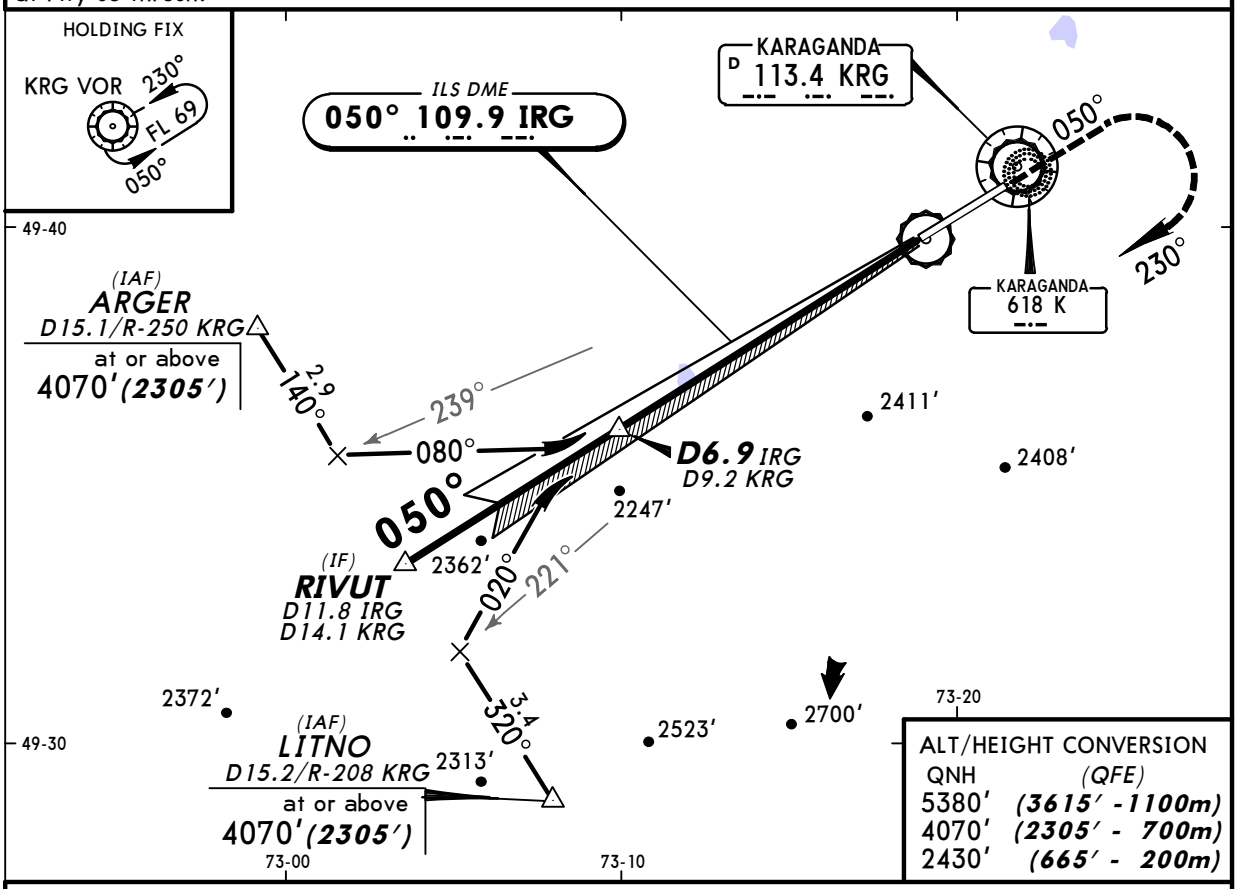
*KARAGANDA Approach	*KARAGANDA Tower	*Ground
122.0	118.3	118.3

LOC IRG	Final Apch Crs	GS D6.9 IRG	ILS DA(H)	Apt Elev 1765′
109.9	050°	4070′ (2305′)	1965′ (200′)	RWY 1765′

5000′ MSA KRG VOR

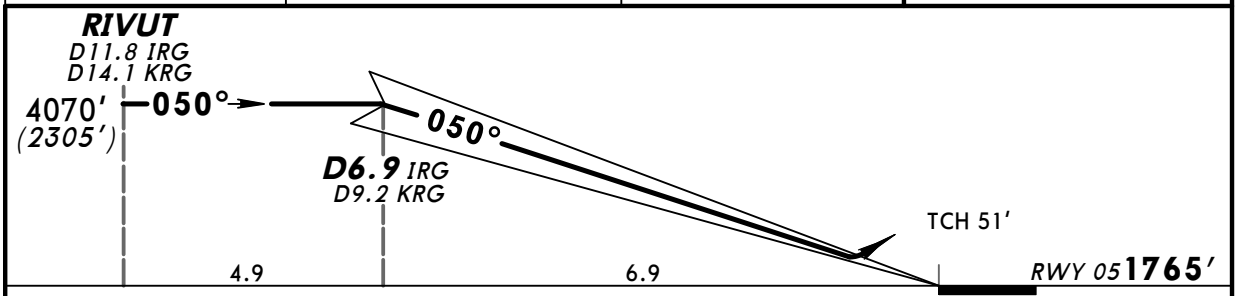
MISSED APCH: Climb on 050° to 2430′ (665′) or above, then turn RIGHT onto 230° climbing to 4070′ (2305′), then as directed.
Do not turn before passing ABEAM VOR.

Alt Set: MM (hPa on req) QNH on req (**QFE**) Trans level: FL 69 Trans alt: 5380′ (**3615′**)
1. RADAR required. 2. Heavy turbulence and windshear may be expected on final. 3. ILS DME reads zero at rwy 05 thresh.



ALT/HEIGHT CONVERSION

QNH	(QFE)
5380′	(3615′ - 1100m)
4070′	(2305′ - 700m)
2430′	(665′ - 200m)



Gnd speed-Kts		70	90	100	120	140	160
GS	3.00°	377	484	538	646	753	861

HIALS PAPI 2430′ (665′) or above on 050°

STRAIGHT-IN LANDING RWY 05

ILS DA(H) 1965′ (200′) FULL	ILS DA(H) 1965′ (200′) ALS out	LOC (GS out)
800m	1200m	NOT AUTHORIZED

PANS OPS: A, B, C, D

CHANGES: MSA. Procedure.

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UAKK/KGF KARAGANDA

JEPPESEN 2 APR 10 (11-3) Eff 8 Apr

KARAGANDA, KAZAKHSTAN ILS DME X Rwy 05

BRIEFING STRIP ™

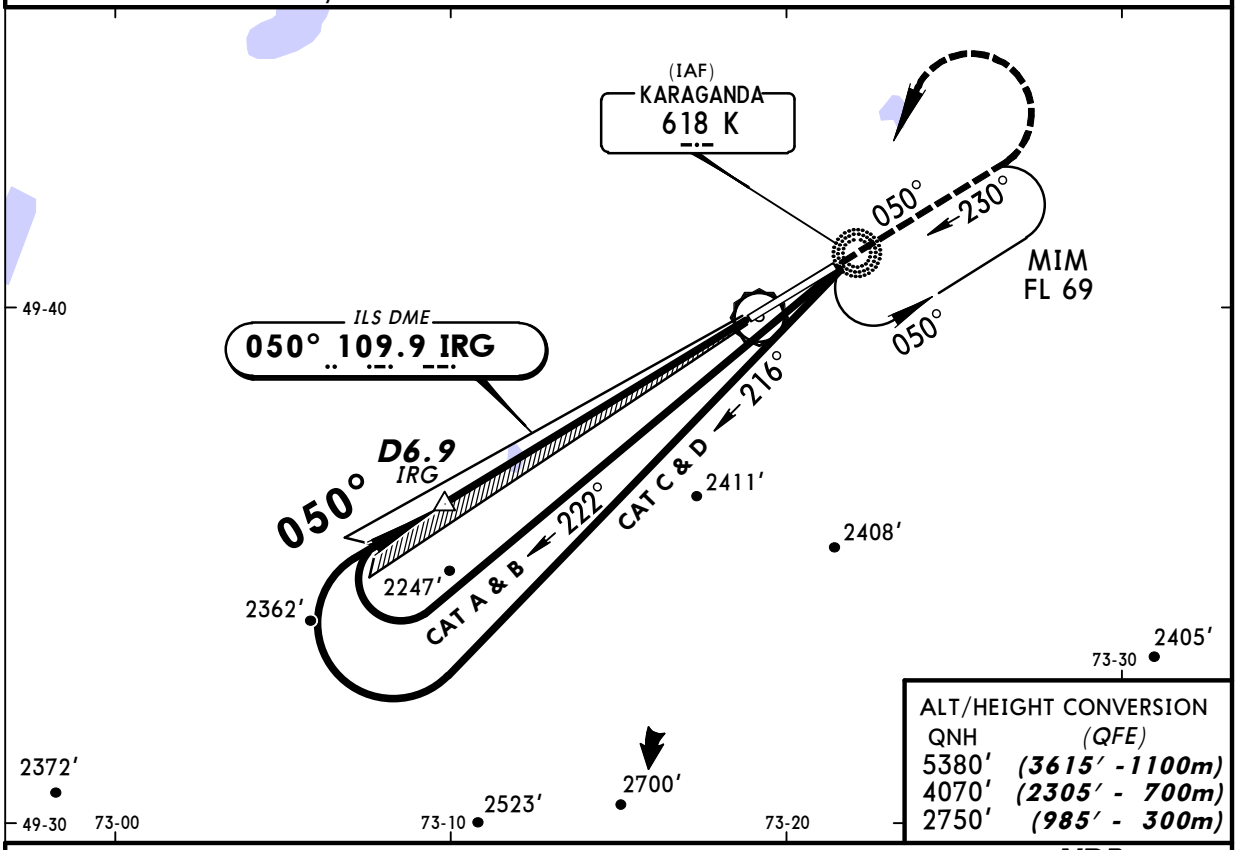
*KARAGANDA Approach	*KARAGANDA Tower	*Ground
122.0	118.3	118.3

LOC IRG	Final Apch Crs	GS D6.9 IRG	ILS DA(H)	Apt Elev 1765′
109.9	050°	4070′ (2305′)	1965′ (200′)	RWY 1765′

MISSED APCH: Climb on 050° to 2750′ (985′) or above. After passing NDB maintain 050° for 1½ Min, then turn LEFT (MAX 225 KT) to NDB. Climb initially to 4070′ (2305′), then as directed.
MISSED APCH WITH COMM FAILURE: Climb to FL 69 to NDB and join holding.

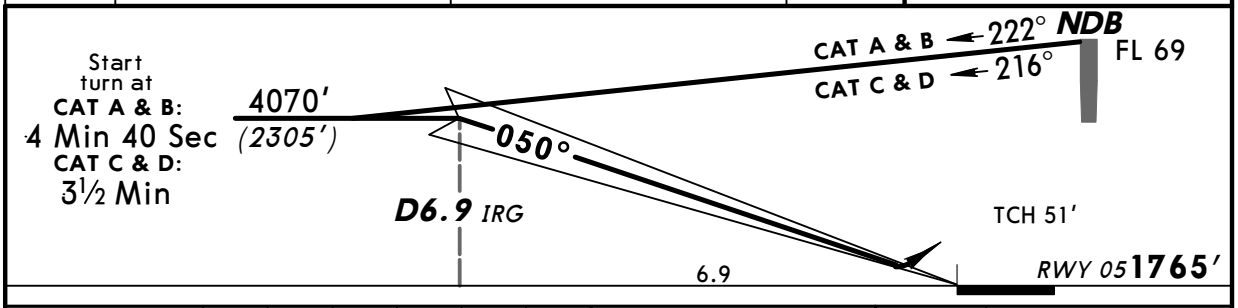
5000′
MSA K NDB

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 69 Trans alt: 5380′ (3615′)
1. Initial apch restricted to MAX 195 KT. 2. Heavy turbulence and windshear may be expected on final.
3. ILS DME reads zero at rwy 05 thresh.



ALT/HEIGHT CONVERSION

QNH	(QFE)
5380′	(3615′ - 1100m)
4070′	(2305′ - 700m)
2750′	(985′ - 300m)



Gnd speed-Kts		70	90	100	120	140	160
GS	3.00°	377	484	538	646	753	861

HIALS
PAPI
2750′ (985′) or above on 050°

STRAIGHT-IN LANDING RWY 05

ILS DA(H) 1965′ (200′) FULL	ILS DA(H) 1965′ (200′) ALS out	LOC (GS out)
800m	1200m	NOT AUTHORIZED

PANS OPS

CHANGES: MSA. Procedure.

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UAKK/KGF KARAGANDA

JEPPESEN 2 APR 10 (11-4) Eff 8 Apr

KARAGANDA, KAZAKHSTAN ILS DME Z Rwy 23

BRIEFING STRIP ™

*KARAGANDA Approach	*KARAGANDA Tower	*Ground
122.0	118.3	118.3

LOC IKA	Final Apch Crs	GS LOM	ILS DA(H)	Apt Elev 1765′
111.7	230°	2470′ (718′)	1952′ (200′)	RWY 1752′

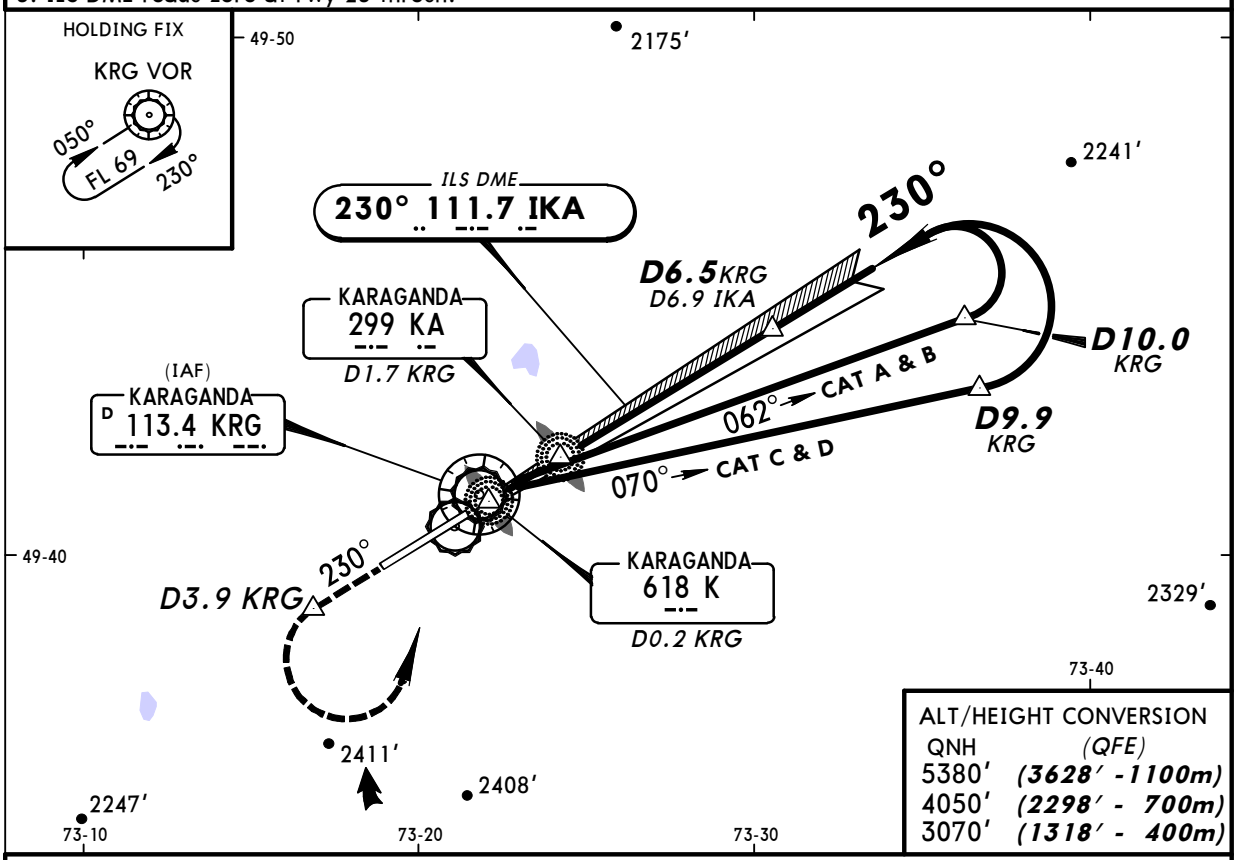
MISSED APCH: Climb on 230° to 3070′ (1318′) or above to D3.9 KRG, then turn LEFT (MAX 225 KT) to VOR. Climb initially to 4050′ (2298′), then as directed.

MISSED APCH WITH COMM FAILURE: Climb to FL 69 to VOR and join holding.

5000′ MSA KRG VOR

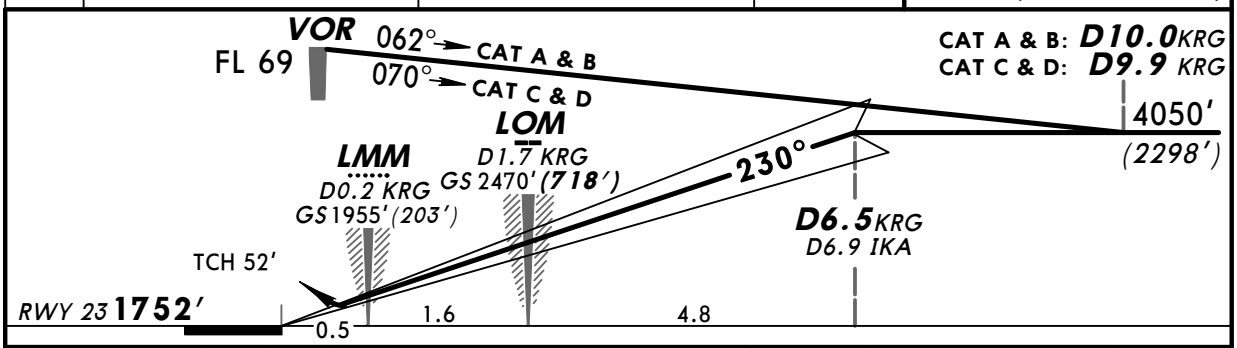
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 69 Trans alt: 5380′ (3628′)

1. Initial apch restricted to MAX 195 KT. 2. Heavy turbulence and windshear may be expected on final.
3. ILS DME reads zero at rwy 23 thresh.



ALT/HEIGHT CONVERSION

QNH	(QFE)
5380′	(3628′ - 1100m)
4050′	(2298′ - 700m)
3070′	(1318′ - 400m)



Gnd speed-Kts		70	90	100	120	140	160
GS	3.00°	377	484	538	646	753	861

HIALS PAPI 3070′ (1318′) or above on 230° D3.9 KRG

STRAIGHT-IN LANDING RWY 23

ILS DA(H) 1952′ (200′) FULL	ILS DA(H) 1952′ (200′) ALS out	LOC (GS out)
800m	1200m	NOT AUTHORIZED

PANS OPS: A, B, C, D

CHANGES: MSA. Procedure.

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UAKK/KGF KARAGANDA

JEPPESEN 2 APR 10 (11-5) Eff 8 Apr

KARAGANDA, KAZAKHSTAN ILS DME Y Rwy 23

BRIEFING STRIP ™

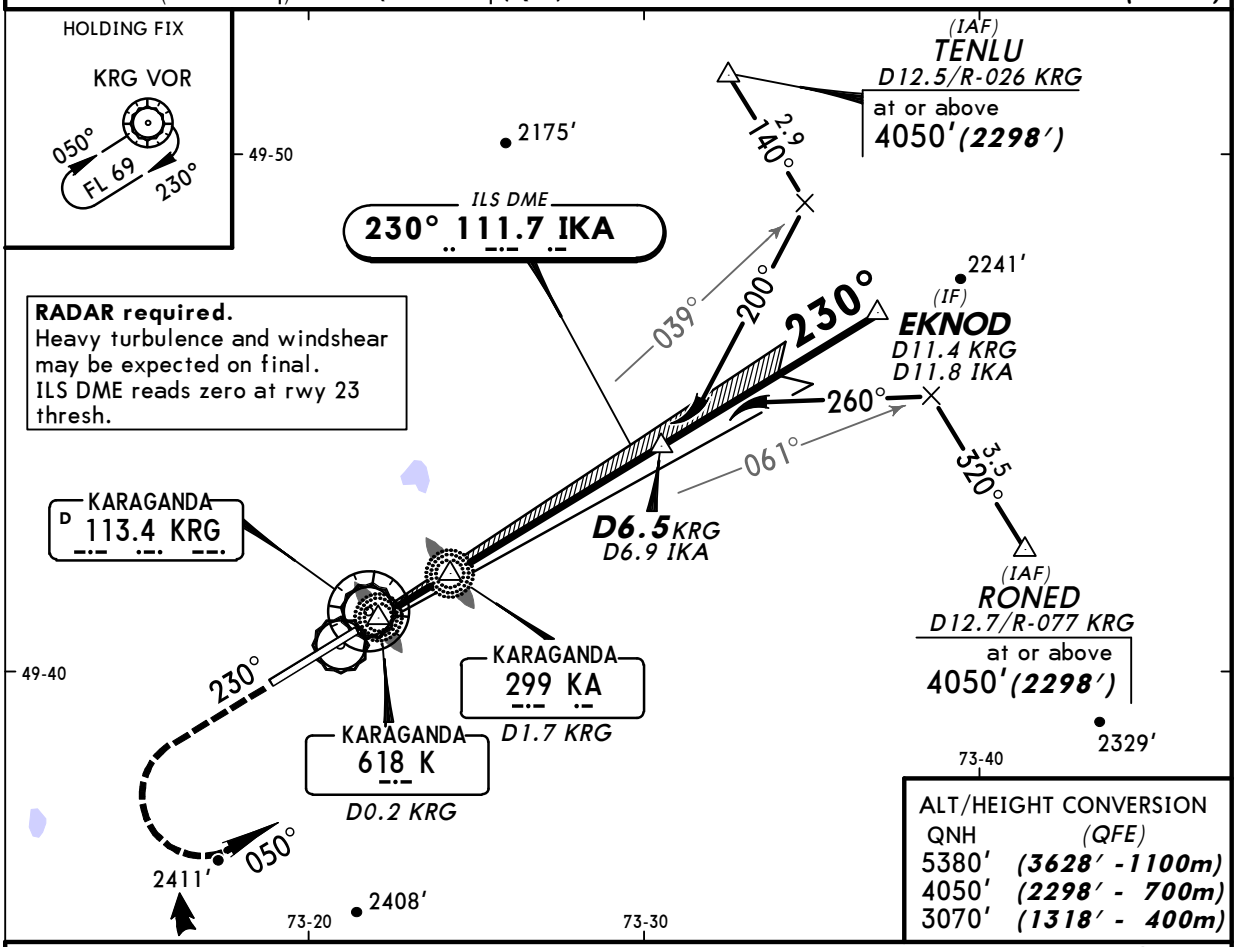
*KARAGANDA Approach	*KARAGANDA Tower	*Ground
122.0	118.3	118.3

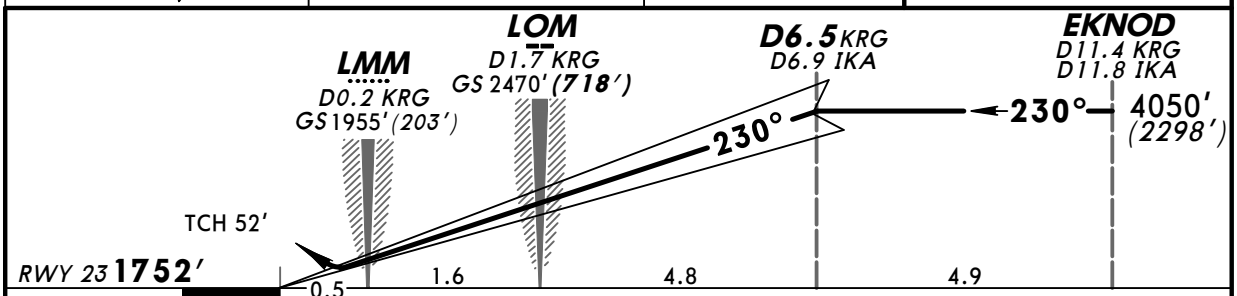
LOC IKA	Final Apch Crs	GS LOM	ILS DA(H)	Apt Elev 1765′
111.7	230°	2470′ (718′)	1952′ (200′)	RWY 1752′

MISSED APCH: Climb on 230° to 3070′ (1318′), then turn LEFT onto 050° climbing to 4050′ (2298′), then as directed.

5000′ MSA KRG VOR

Alt Set: MM (hPa on req) QNH on req (**QFE**) Trans level: FL 69 Trans alt: 5380′ (**3628′**)





Gnd speed-Kts		70	90	100	120	140	160
GS	3.00°	377	484	538	646	753	861

HIALS PAPI 3070′ (1318′) on 230° 050° LT 4050′ (2298′)

STRAIGHT-IN LANDING RWY 23

ILS DA(H) 1952′(200′) FULL	ILS DA(H) 1952′(200′) ALS out	LOC (GS out)
800m	1200m	NOT AUTHORIZED

PANS OPS A B C D

CHANGES: MSA. Procedure.

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JeppView 3.7.2.1

UAKK/KGF KARAGANDA

JEPPESEN 2 APR 10 (11-6) Eff 8 Apr

KARAGANDA, KAZAKHSTAN ILS DME X Rwy 23

BRIEFING STRIP ™

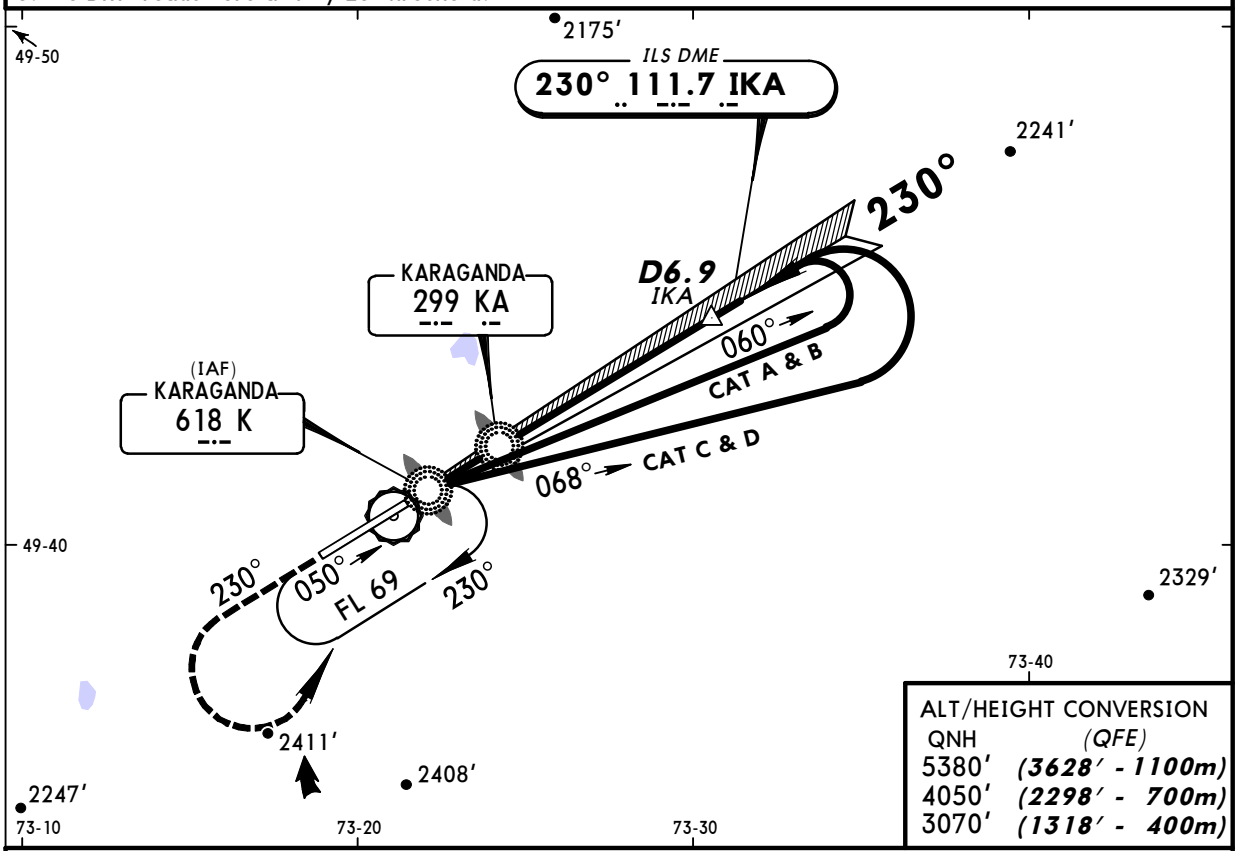
*KARAGANDA Approach	*KARAGANDA Tower	*Ground
122.0	118.3	118.3

LOC IKA	Final Apch Crs	GS LOM	ILS DA(H)	Apt Elev 1765′
111.7	230°	2470′ (718′)	1952′ (200′)	RWY 1752′

MISSED APCH: Climb on 230° to 3070′ (1318′) or above. After passing K NDB maintain 230° for 1 Min, then turn LEFT (MAX 225 KT) to K NDB. Climb initially to 4050′ (2298′), then as directed.
MISSED APCH WITH COMM FAILURE: Climb to FL 69 to K NDB and join holding.

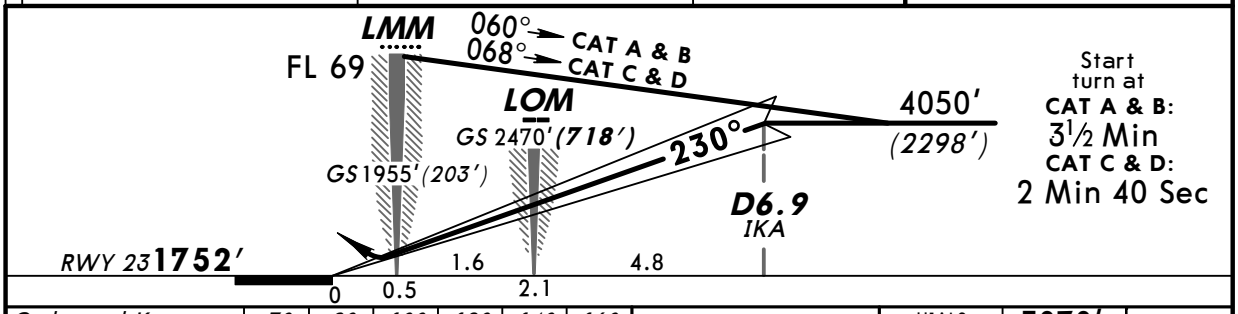
5000′
MSA K NDB

Alt Set: MM (hPa on req) QNH on req (**QFE**) Trans level: FL 69 Trans alt: 5380′ (3628′)
1. Initial apch restricted to MAX 195 KT. 2. Heavy turbulence and windshear may be expected on final.
3. ILS DME reads zero at rwy 23 threshold.



ALT/HEIGHT CONVERSION

QNH	(QFE)
5380′	(3628′ - 1100m)
4050′	(2298′ - 700m)
3070′	(1318′ - 400m)



Start turn at
CAT A & B: 3½ Min
CAT C & D: 2 Min 40 Sec

Gnd speed-Kts	70	90	100	120	140	160
GS 3.00°	377	484	538	646	753	861

HIALS
PAPI

3070′ (1318′) or above on 230°

STRAIGHT-IN LANDING RWY 23

	ILS DA(H) 1952′ (200′) FULL	ILS DA(H) 1952′ (200′) ALS out	LOC (GS out)
A	800m	1200m	NOT AUTHORIZED
B			
C			
D			

PANS OPS

CHANGES: New procedure.

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UAKK/KGF KARAGANDA

JEPPESEN 2 APR 10 (13-1) Eff 8 Apr

KARAGANDA, KAZAKHSTAN VOR DME Rwy 05

BRIEFING STRIP ™

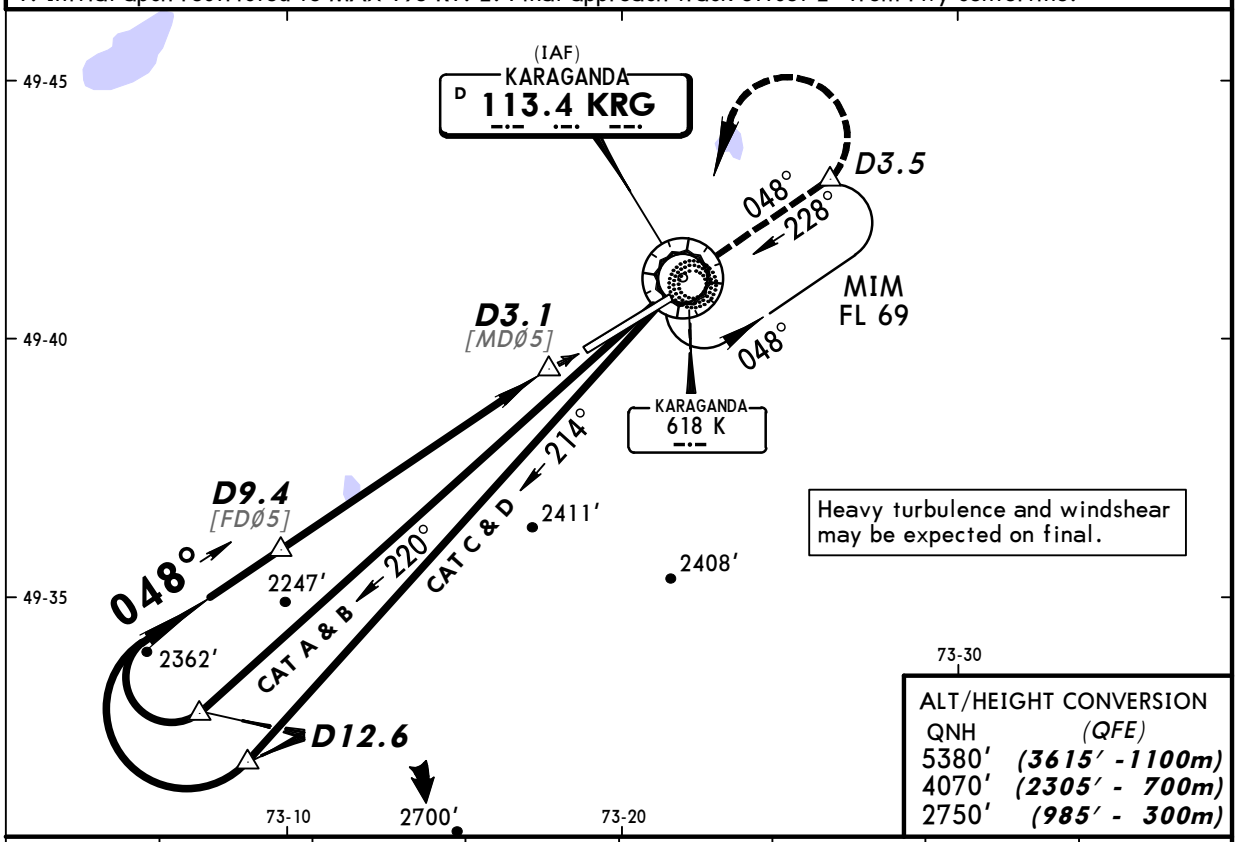
*KARAGANDA Approach	*KARAGANDA Tower	*Ground
122.0	118.3	118.3

VOR	Final Apch Crs	Minimum Alt	MDA(H)	Apt Elev 1765'
KRG 113.4	048°	D9.4 4070'(2305')	Refer to Minimums	RWY 1765'

MISSED APCH: Climb on 048° to 2750' (985') or above to D3.5, then turn LEFT (MAX 225 KT) to VOR. Climb initially to 4070' (2305'), then as directed.
MISSED APCH WITH COMM FAILURE: Climb to FL 69 to VOR and join holding.

5000'
MSA KRG VOR

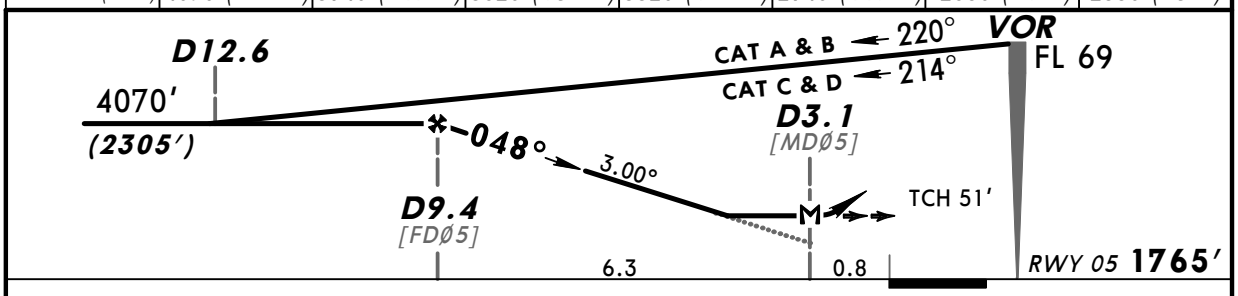
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 69 Trans alt: 5380' (3615')
1. Initial apch restricted to MAX 195 KT. 2. Final approach track offset 2° from rwy centerline.



ALT/HEIGHT CONVERSION

QNH	(QFE)
5380'	(3615' - 1100m)
4070'	(2305' - 700m)
2750'	(985' - 300m)

KRG DME	9.4	9.0	8.0	7.0	6.0	5.0	4.0
ALTITUDE (HAT)	4070' (2305')	3940' (2175')	3620' (1855')	3320' (1555')	2940' (1175')	2680' (915')	2350' (585')



Gnd speed-Kts		70	90	100	120	140	160
Descent angle	3.00°	372	478	531	637	743	849
MAP at D3.1							

HIALS PAPI 2750' (985') or above on 048° D3.5

STRAIGHT-IN LANDING RWY 05

MDA(H) AB: 2430' (665')
CD: 2750' (985')

ALS out

PANS OPS

A	2500m
B	
C	5000m
D	

CHANGES: MSA. Procedure.

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UAKK/KGF KARAGANDA

JEPPESEN 2 APR 10 (13-2) Eff 8 Apr

KARAGANDA, KAZAKHSTAN VOR DME Rwy 23

BRIEFING STRIP ™

*KARAGANDA Approach	*KARAGANDA Tower	*Ground
122.0	118.3	118.3

VOR	Final Apch Crs	Minimum Alt	MDA(H)	Apt Elev 1765′
KRG 113.4	240°	D6.7 4050′(2298′)	Refer to Minimums	RWY 1752′

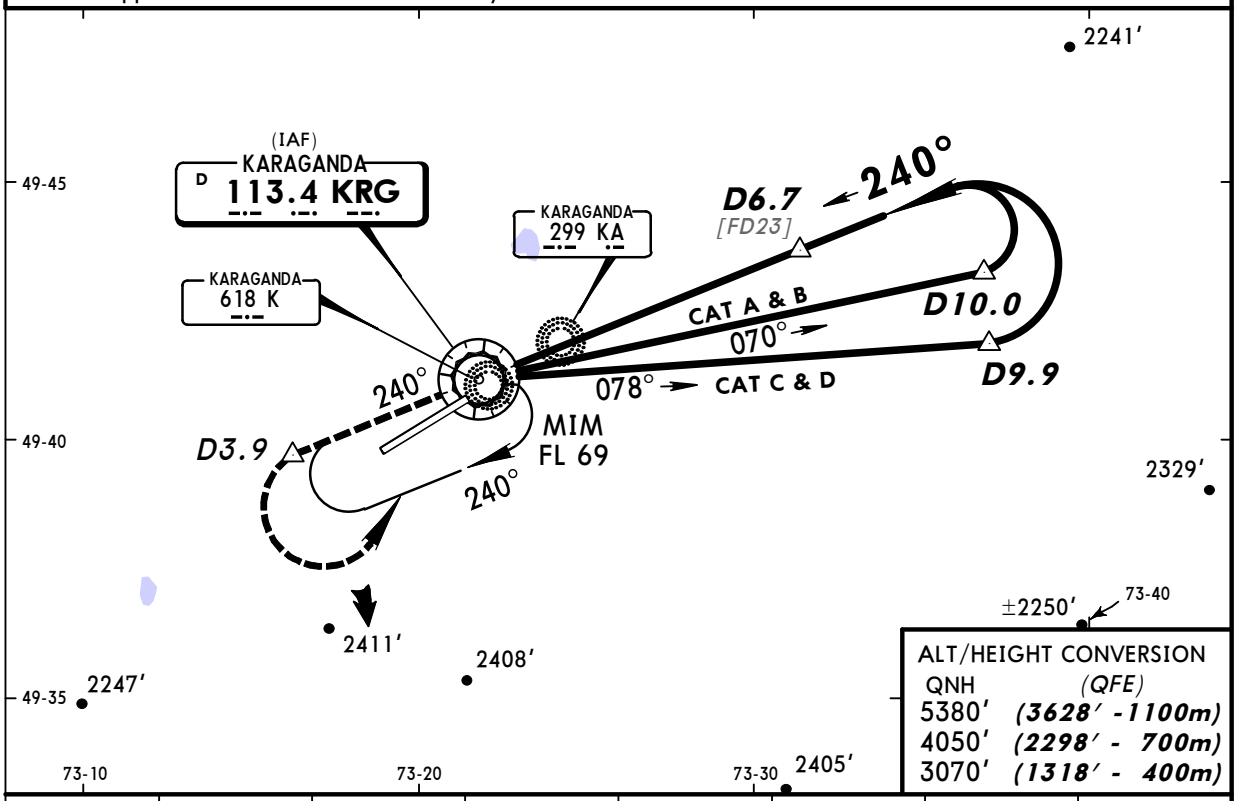
MISSED APCH: Climb on 240° to 3070′ (1318′) or above to D3.9, then turn LEFT (MAX 225 KT) to VOR. Climb initially to 4050′ (2298′), then as directed.

MISSED APCH WITH COMM FAILURE: Climb to FL 69 to VOR and join holding.

5000′
MSA KRG VOR

Alt Set: MM (hPa on req) QNH on req (**QFE**) Trans level: FL 69 Trans alt: 5380′ (3628′)

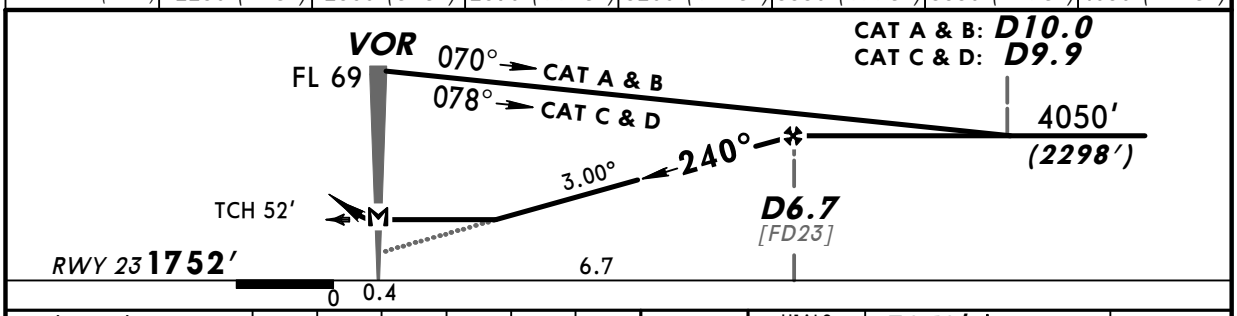
1. Initial apch restricted to MAX 195 KT.2. Heavy turbulence and windshear may be expected on final.
3. Final approach track offset 10° from rwy centerline.



ALT/HEIGHT CONVERSION

QNH	(QFE)
5380′	(3628′ -1100m)
4050′	(2298′ - 700m)
3070′	(1318′ - 400m)

KRG DME	1.0	2.0	3.0	4.0	5.0	6.0	6.7
ALTITUDE (HAT)	2250′ (498′)	2560′ (808′)	2890′ (1138′)	3200′ (1448′)	3530′ (1778′)	3830′ (2078′)	4050′ (2298′)



Gnd speed-Kts	70	90	100	120	140	160
Descent angle 3.00°	372	478	531	637	743	849
MAP at VOR						

HIALS
PAPI

3070′ (1318′) or above on 240° D3.9

STRAIGHT-IN LANDING RWY 23

MDA(H) AB: 2410′ (658′)
CD: 2740′ (988′)

ALS out

PANS OPS

A	2500m
B	
C	5000m
D	

CHANGES: MSA. Procedure.

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UAKK/KGF KARAGANDA

JEPPESEN 16 JUL 10 (16-1) Eff 29 Jul

KARAGANDA, KAZAKHSTAN 2 NDB Rwy 05

BRIEFING STRIP ™

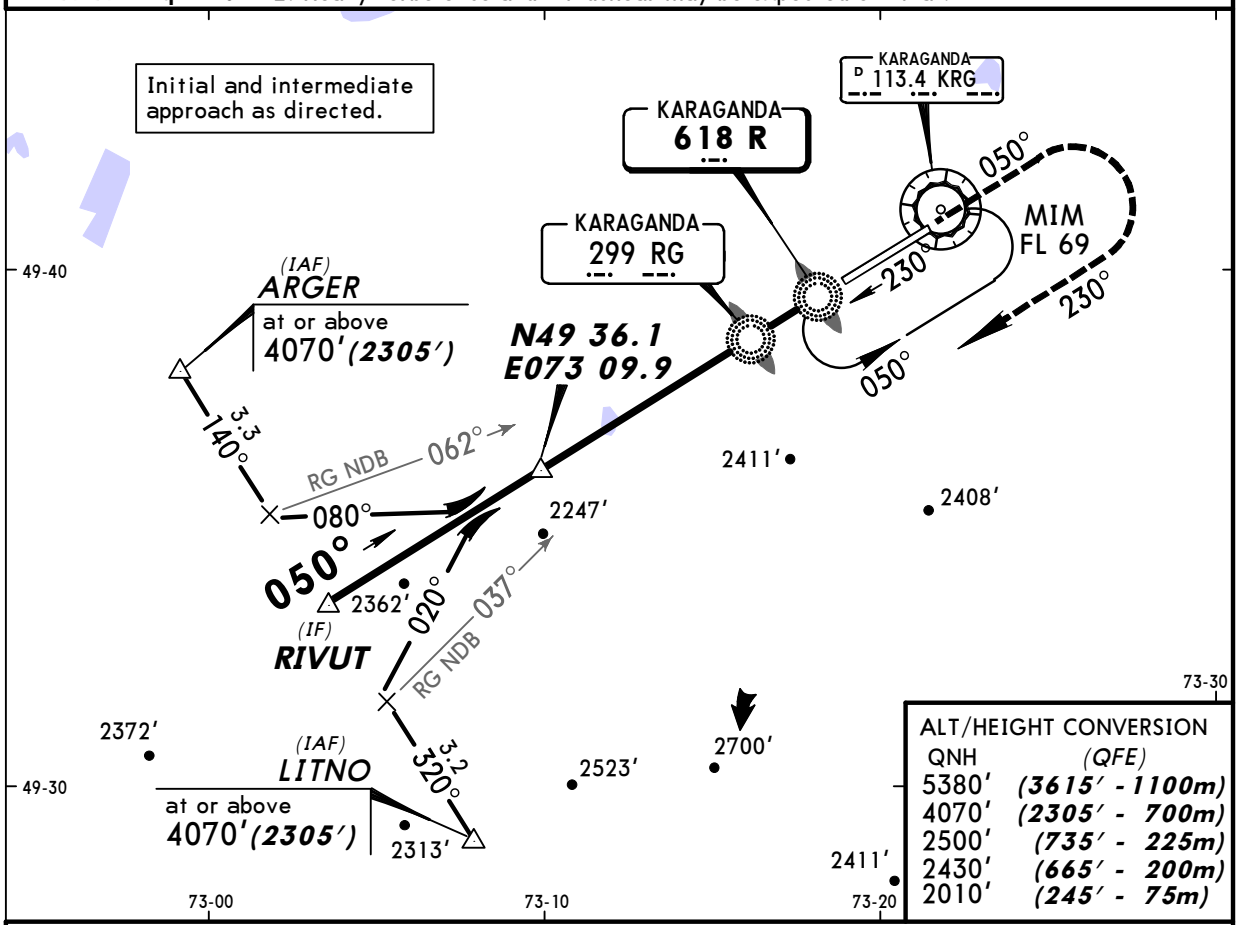
*KARAGANDA Approach	*KARAGANDA Tower	*Ground
122.0	118.3	118.3

Lctr	Final Apch Crs	Minimum Alt	MDA(H)	Apt Elev 1765'
R 618	050°	N49 36.1 E073 09.9 4070'(2305')	2110'(345')	RWY 1765'

5000'
MSA R Lctr

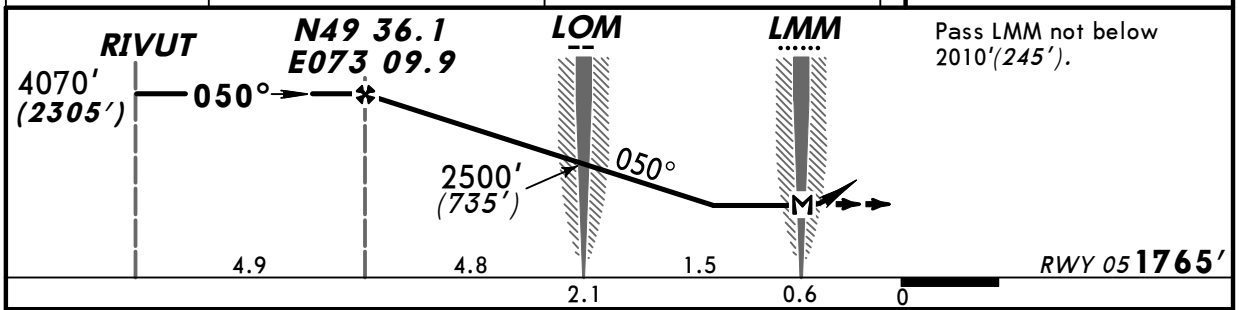
MISSED APCH: Climb to 2430'(665'), then turn RIGHT onto 230° climbing to 4070'(2305'), then as directed.

Alt Set: MM (hPa on req) QNH on req (**QFE**) Trans level: FL 69 Trans alt: 5380' (3615')
1. RADAR required. 2. Heavy turbulence and windshear may be expected on final.



ALT/HEIGHT CONVERSION

QNH	(QFE)
5380'	(3615' - 1100m)
4070'	(2305' - 700m)
2500'	(735' - 225m)
2430'	(665' - 200m)
2010'	(245' - 75m)



Pass LMM not below 2010'(245').

Gnd speed-Kts		70	90	100	120	140	160
Descent angle	3.00°	372	478	531	637	743	849
MAP at LMM							

HIALS PAPI | 2430' (665') | 230° RT | 4070' (2305')

STRAIGHT-IN LANDING RWY 05

MDA(H) 2110'(345')

		ALS out
A	1500m	RVR 1500m VIS 1600m
B		
C		
D	RVR 1500m VIS 1600m	

PANS OPS

CHANGES: New procedure.

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UAKK/KGF KARAGANDA

JEPPESEN 16 JUL 10 (16-2) Eff 29 Jul

KARAGANDA, KAZAKHSTAN NDB Rwy 05

BRIEFING STRIP ™

*KARAGANDA Approach	*KARAGANDA Tower	*Ground
122.0	118.3	118.3

NDB	Final Apch Crs	Minimum Alt	MDA(H)	Apt Elev 1765′
K 618	050°	No FAF	Refer to Minimums	RWY 1765′

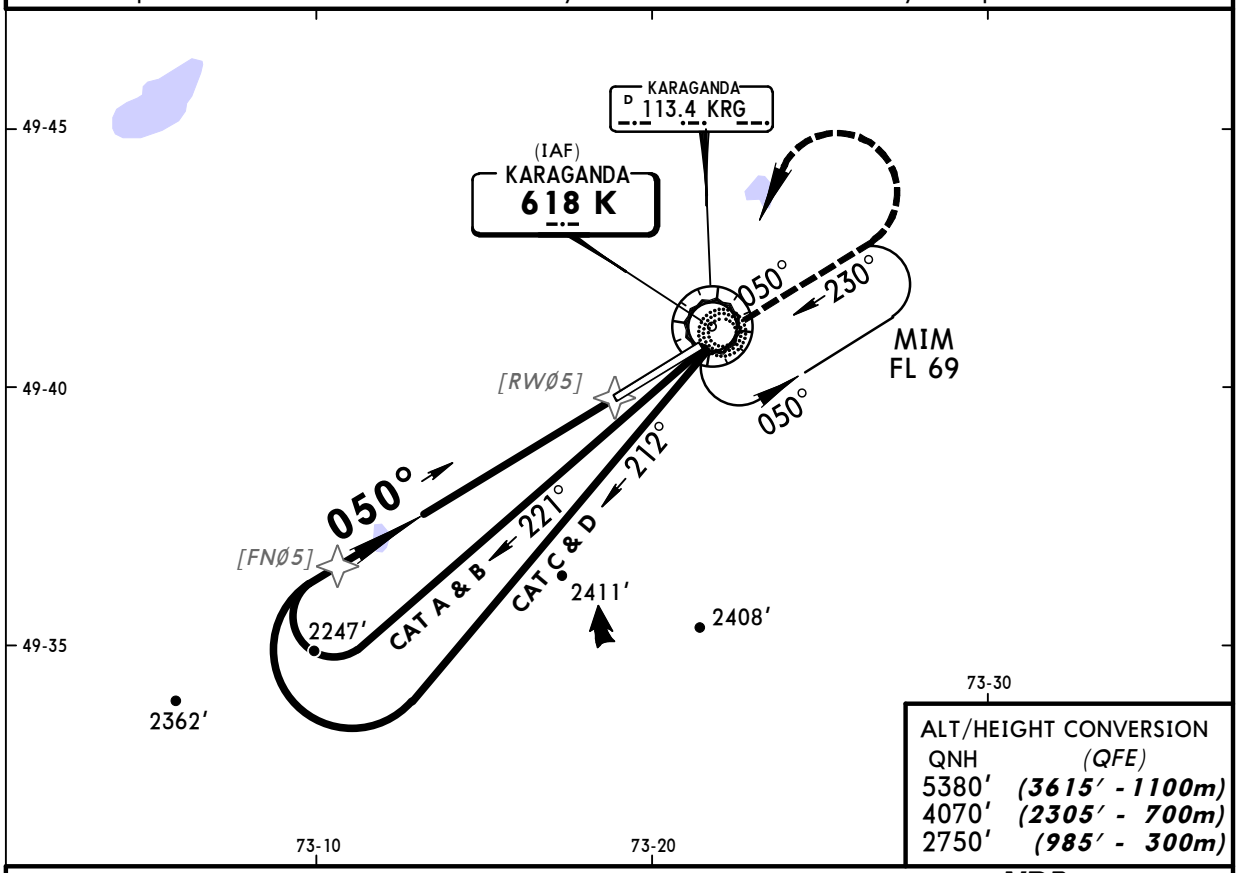
MISSED APCH: Climb on 050° to 2750′(985′) or above. After passing NDB maintain 050° for 1½ Min, then turn LEFT (MAX 225 KT) to NDB. Climb initially to 4070′ (2305′), then as directed.

MISSED APCH WITH COMM FAILURE: Climb to FL 69 to NDB and join holding.

5000′
MSA K NDB

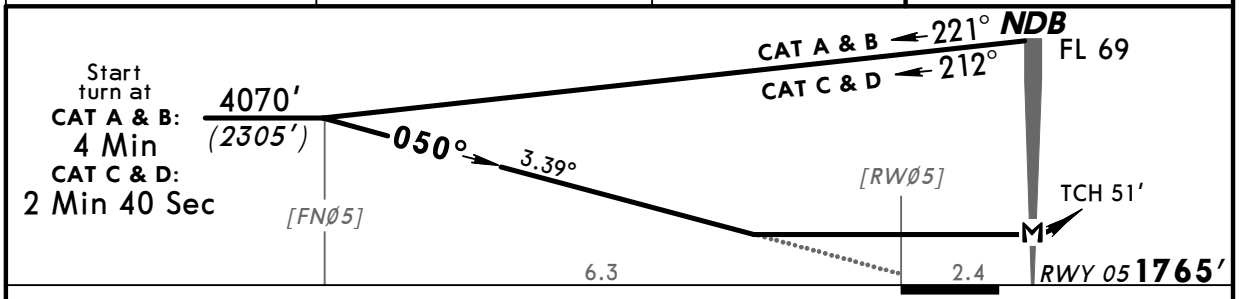
Alt Set: MM (hPa on req) QNH on req (**QFE**) Trans level: FL 69 Trans alt: 5380′ (3615′)

1. Initial apch restricted to MAX 195 KT. 2. Heavy turbulence and windshear may be expected on final.



ALT/HEIGHT CONVERSION

QNH	(QFE)
5380′	(3615′ - 1100m)
4070′	(2305′ - 700m)
2750′	(985′ - 300m)



Gnd speed-Kts		70	90	100	120	140	160
Descent angle	3.39°	420	540	600	720	840	960
MAP at NDB							

HIALS
PAPI
2750′ (985′) or above on 050°

STRAIGHT-IN LANDING RWY 05

MDA(H) AB: 2640′(875′)
CD: 2750′(985′)

ALS out

PANS OPS

A	3000m
B	
C	5000m
D	

CHANGES: Chart reinexed.

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UAKK/KGF KARAGANDA

JEPPESEN KARAGANDA, KAZAKHSTAN
16 JUL 10 (16-3) Eff 29 Jul
2 NDB Rwy 23

BRIEFING STRIP ™

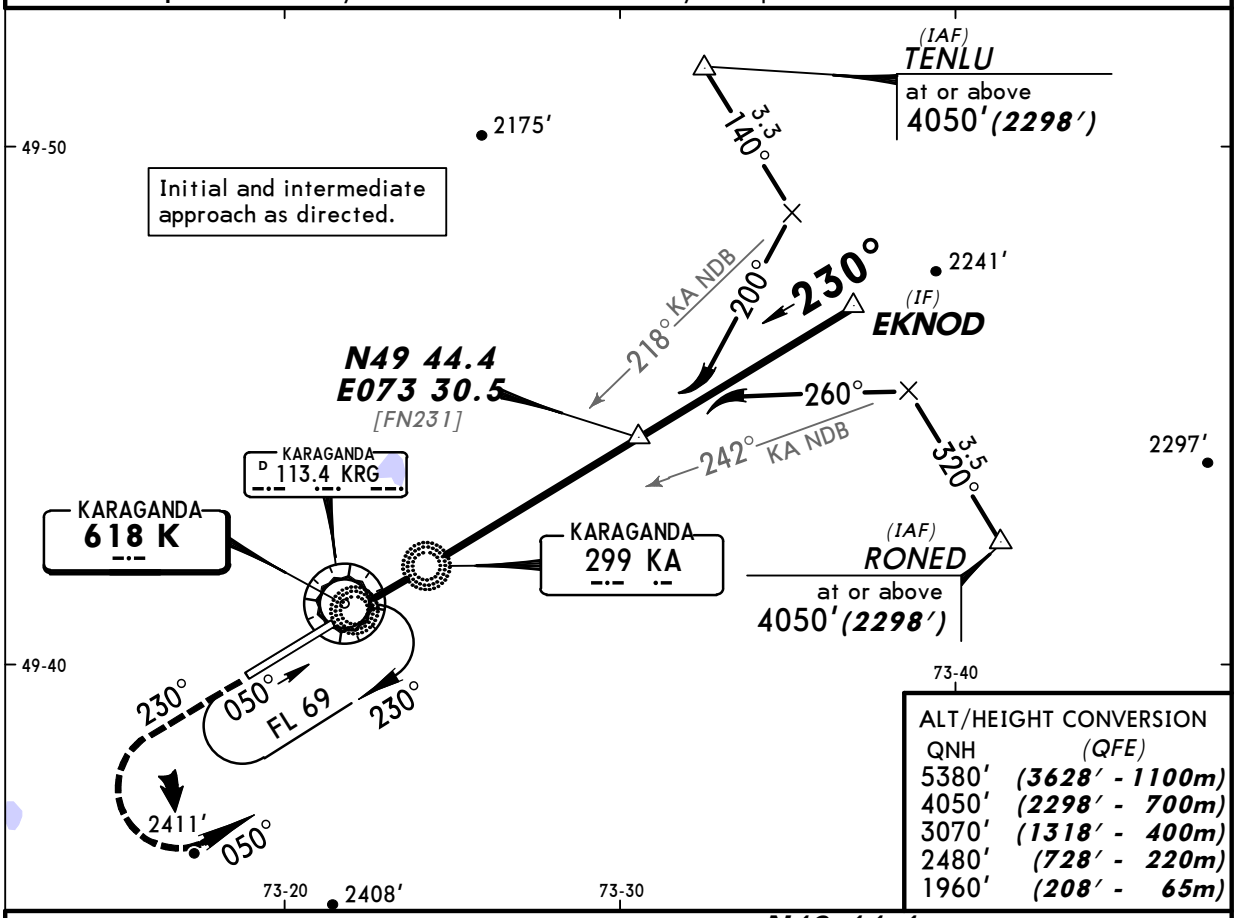
*KARAGANDA Approach	*KARAGANDA Tower	*Ground
122.0	118.3	118.3

NDB	Final Apch Crs	Minimum Alt	MDA(H)	Apt Elev 1765′
K 618	230°	N49 44.4 E073 30.5 4050′ (2298′)	2090′ (338′)	RWY 1752′

MISSED APCH: Climb on 230° to 3070′ (1318′), then turn LEFT onto 050° climbing to 4050′ (2298′), then as directed.

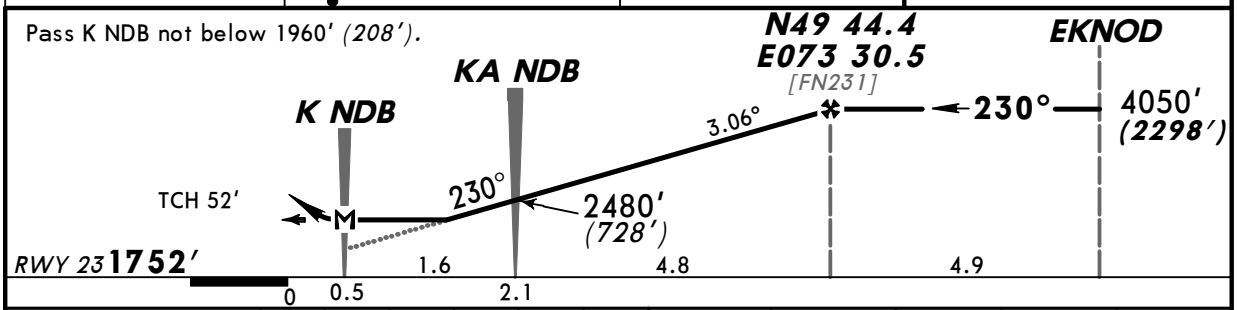
5000′
MSA K NDB

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 69 Trans alt: 5380′ (3628′)
1. RADAR required. 2. Heavy turbulence and windshear may be expected on final.



ALT/HEIGHT CONVERSION

QNH	(QFE)
5380′	(3628′ - 1100m)
4050′	(2298′ - 700m)
3070′	(1318′ - 400m)
2480′	(728′ - 220m)
1960′	(208′ - 65m)



Gnd speed-Kts		70	90	100	120	140	160
Descent angle	3.06°	379	487	541	650	758	866
MAP at K NDB							

HIALS
PAPI

3070′ (1318′) on 230°

050° LT

4050′ (2298′)

STRAIGHT-IN LANDING RWY 23

MDA(H) 2090′ (338′)

		ALS out
A	1500m	RVR 1500m VIS 1600m
B		
C		
D	RVR 1500m VIS 1600m	

PANS OPS

CHANGES: Chart reindexed. Descent angle.

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UAKK/KGF KARAGANDA

JEPPESEN 16 JUL 10 (16-4) Eff 29 Jul

KARAGANDA, KAZAKHSTAN NDB Rwy 23

BRIEFING STRIP ™

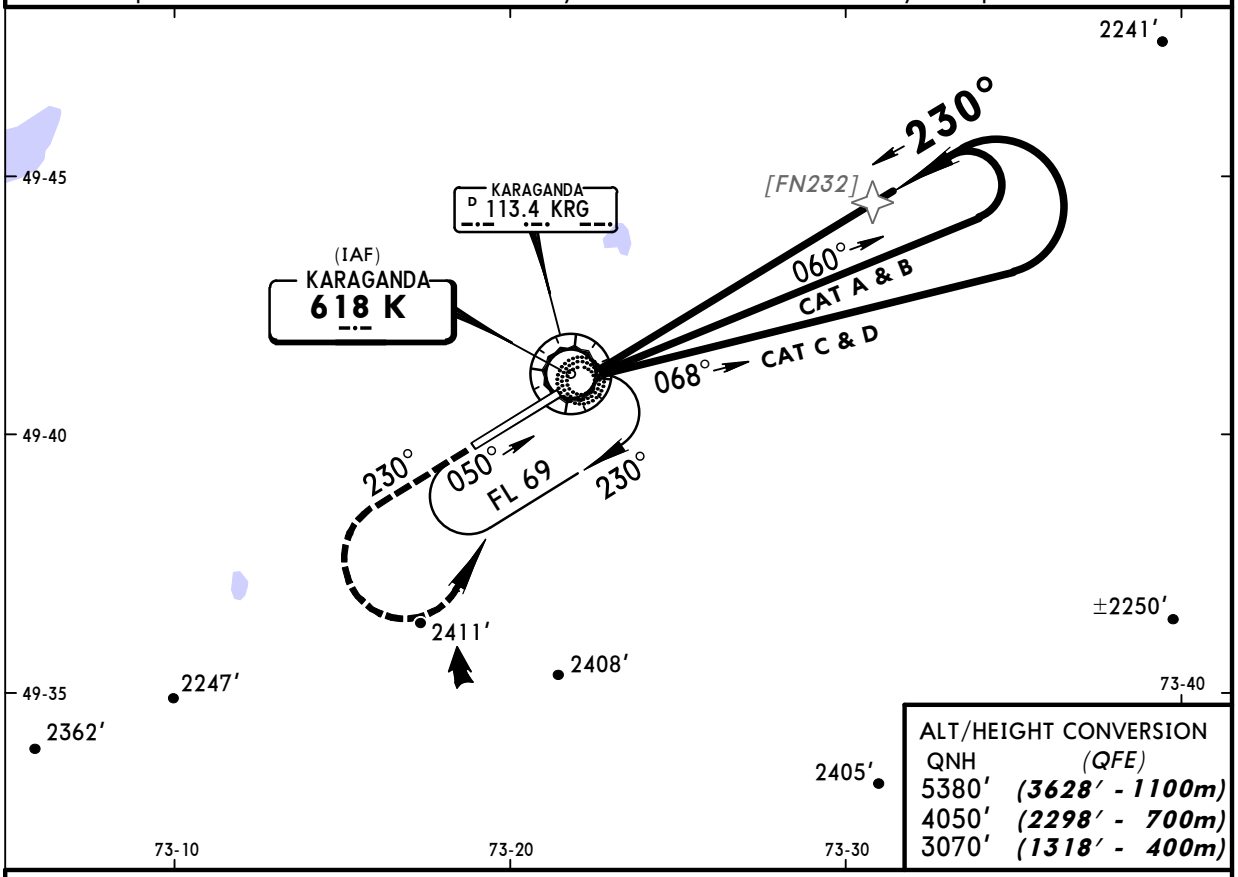
*KARAGANDA Approach	*KARAGANDA Tower	*Ground
122.0	118.3	118.3

NDB	Final Apch Crs	Minimum Alt	MDA(H)	Apt Elev 1765′
K 618	230°	No FAF	Refer to Minimums	RWY 1752′

MISSED APCH: Climb on 230° to 3070′ *(1318′)* or above. After passing NDB maintain 230° for 1½ Min, then turn LEFT (MAX 225 KT) to NDB. Climb initially to 4050′ *(2298′)*, then as directed.
MISSED APCH WITH COMM FAILURE: Climb to FL 69 to NDB and join holding.

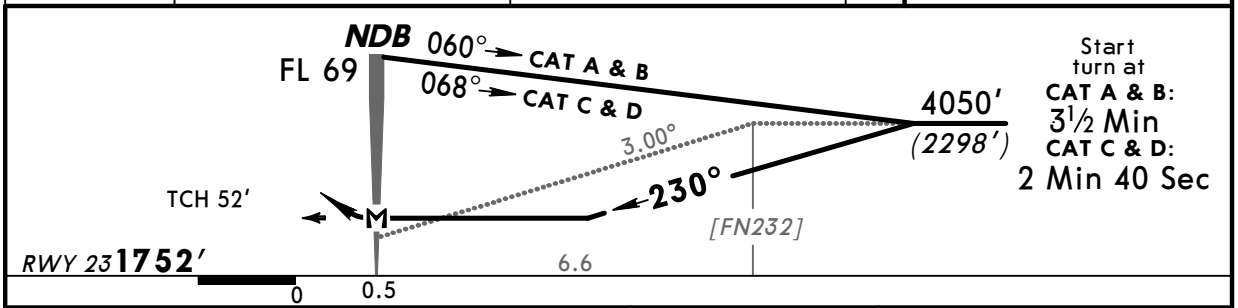
5000′
MSA K NDB

Alt Set: MM (hPa on req) QNH on req **(QFE)** Trans level: FL 69 Trans alt: 5380′ ***(3628′)***
1. Initial apch restricted to MAX 195 KT. 2. Heavy turbulence and windshear may be expected on final.



ALT/HEIGHT CONVERSION

QNH	(QFE)
5380′	***(3628′ - 1100m)***
4050′	***(2298′ - 700m)***
3070′	***(1318′ - 400m)***



Start turn at
CAT A & B: 3½ Min
CAT C & D: 2 Min 40 Sec

Gnd speed-Kts		70	90	100	120	140	160
Descent Angle	3.00°	372	478	531	637	743	849
MAP at NDB							

HIALS
PAPI

3070′ *(1318′)* or above on **230°**

STRAIGHT-IN LANDING RWY **23**

MDA(H) AB: 2530′ ***(778′)***
CD: 2740′ ***(988′)***

ALS out

PANS OPS

A	3000m
B	
C	5000m
D	

CHANGES: Chart reindexed. Descent angle.

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