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Changed chart(s) since Disc 26-2012

ADD = Added chart, REV = Revised chart, DEL = Deleted chart.

ACT	PROCEDURE IDENT	INDEX	REV DATE	EFF DATE
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No revision activity since Disc 26-2012

TERMINAL CHART NOTAMS

Chart NOTAMs for Airport UWKD

Type: Terminal

Effectivity: Temporary

Begin Date: Immediately

End Date: Until Further Notice

(10-2) Eff 13 DEC 12 RNAV STAR RITOP 2C track BENOD - KD218 changed to 270°.

UWKD (Kazan)**General Info**

Kazan, RUS

N 55° 36.4' E 49° 16.8' Mag Var: 11.2°E

Elevation: 414'

Public, IFR, Control Tower, Customs, Landing Fee

Fuel: Jet A-1

Repairs: Major Airframe, Major Engine

Time Zone Info: GMT+4:00 no DST

Runway Info

Runway 11L-29R 12218' x 148' concrete

Runway 11R-29L 8196' x 148' concrete

Runway 11L (112.0°M) TDZE 349'

Lights: Edge, ALS, Centerline

Displaced Threshold Distance 837'

Runway 11R (112.0°M) TDZE 371'

Runway 29L (292.0°M) TDZE 408'

Runway 29R (292.0°M) TDZE 410'

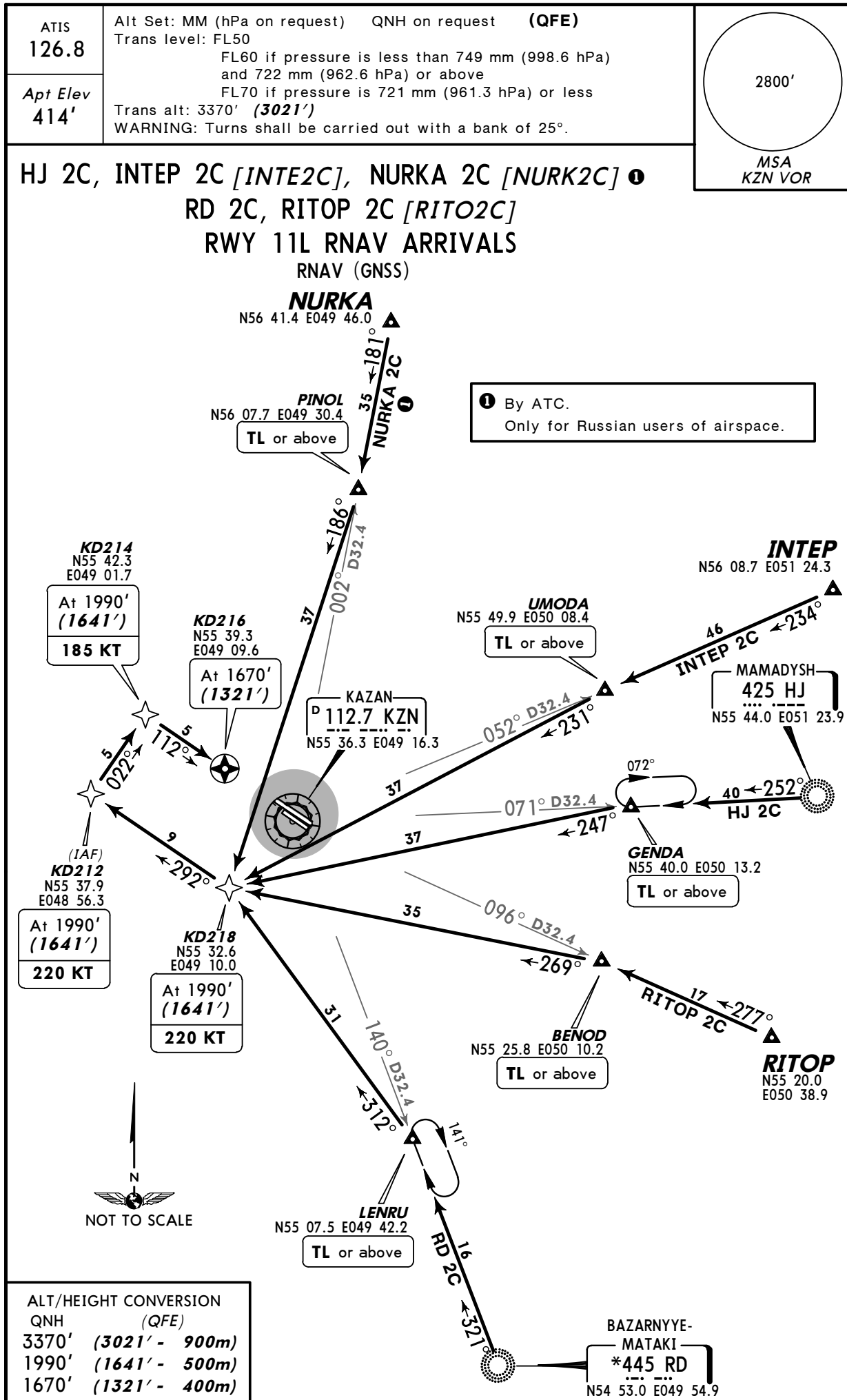
Lights: Edge, ALS, Centerline, TDZ

Communications InfoATIS **126.8**Kazan Tower **120.3**Kazan Ground Control **121.7**Kazan Radar **119.4** At or below 9800'**Notebook Info**

UWKD/KZN
KAZAN

JEPPESEN
22 JUN 12 10-2 Eff 28 Jun

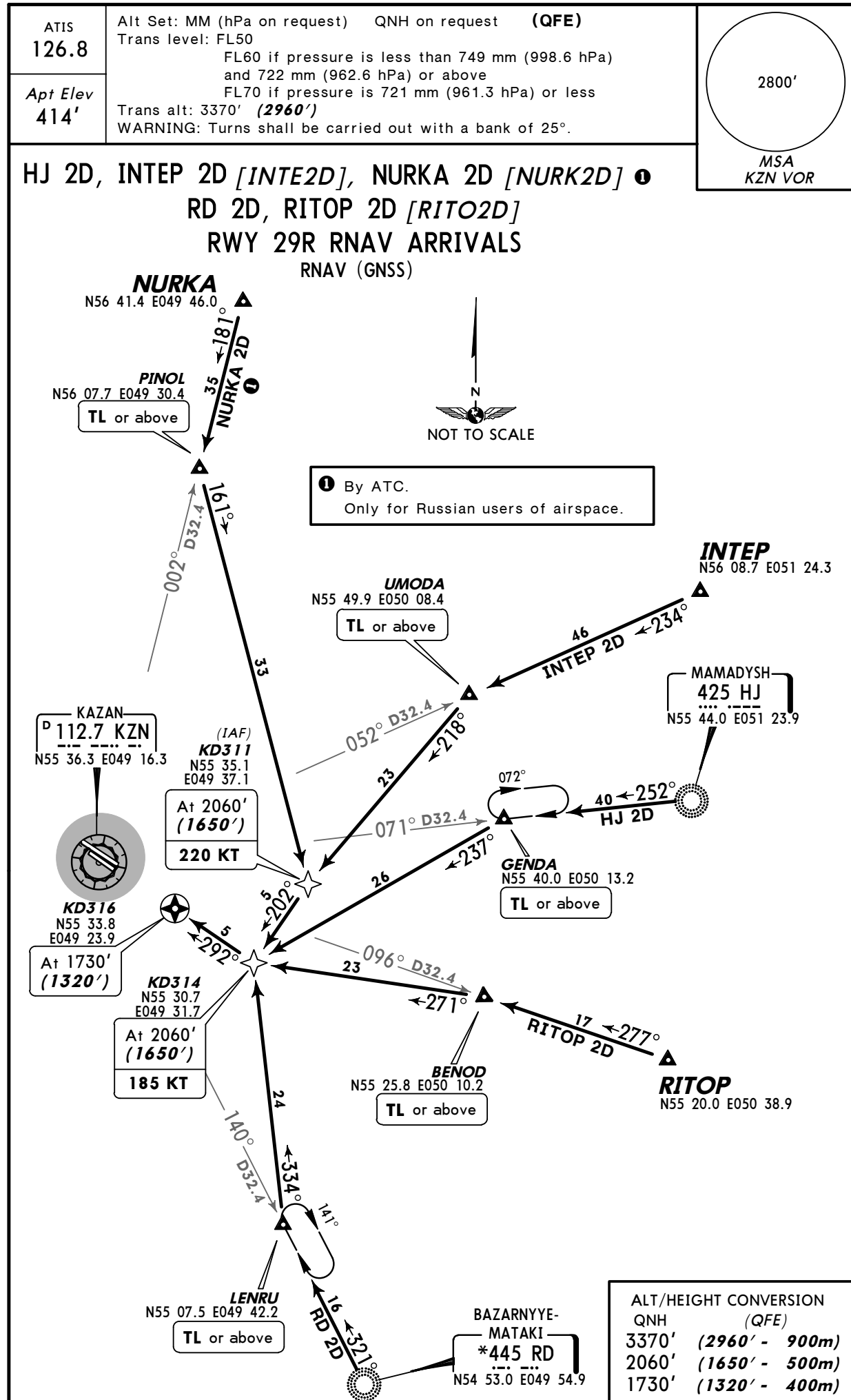
KAZAN, RUSSIA
RNAV STAR



UWKD/KZN
KAZAN

JEPPESEN
22 JUN 12 (10-2A) Eff 28 Jun

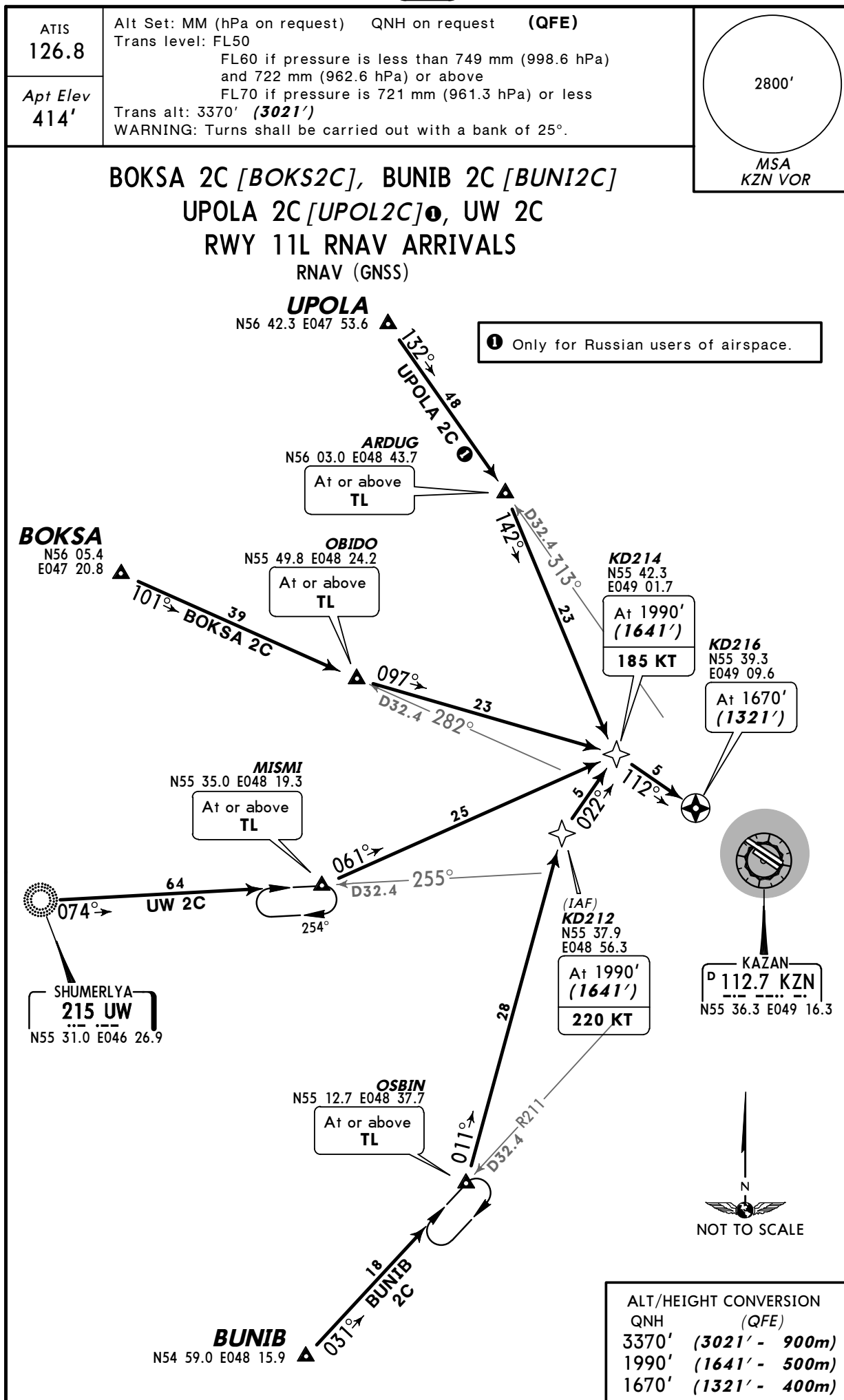
KAZAN, RUSSIA
RNAV STAR



UWKD/KZN
KAZAN

JEPPESEN
27 JUL 12 (10-2B)

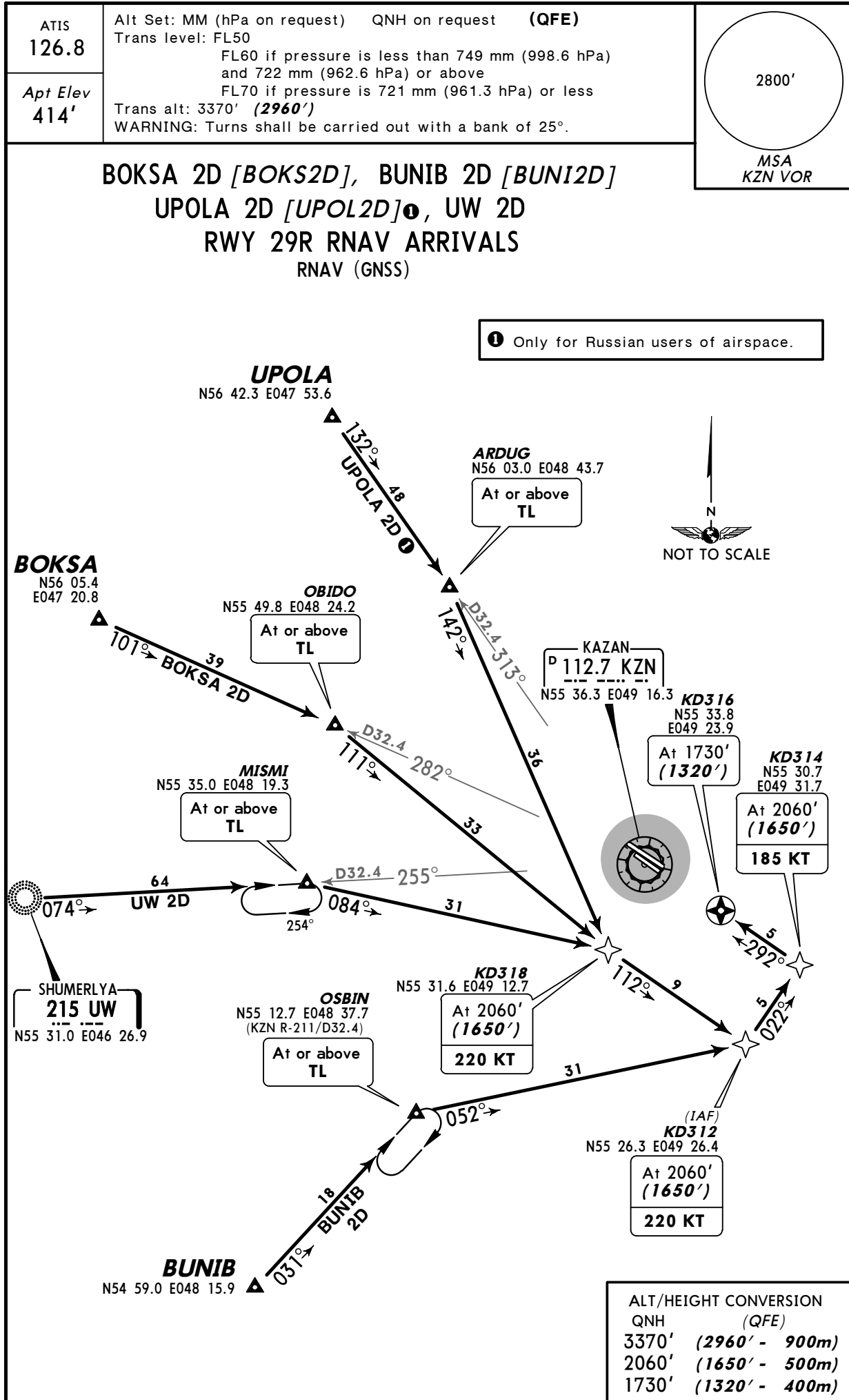
KAZAN, RUSSIA
RNAV STAR



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KAZAN

JEPPESEN
27 JUL 12 (10-2C)

KAZAN, RUSSIA
RNAV STAR

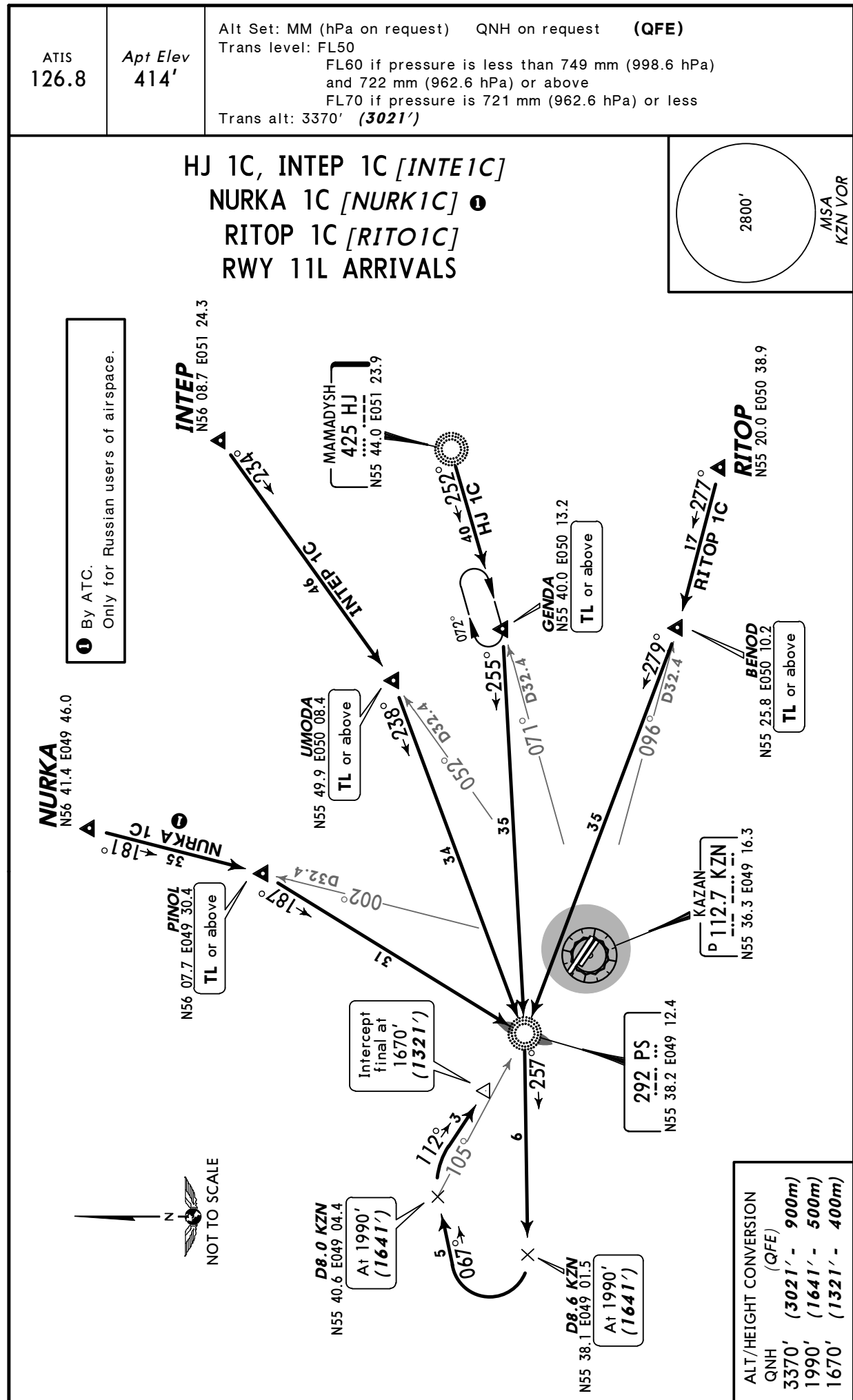


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22 JUN 12 10-2D Eff 28 Jun

KAZAN, RUSSIA

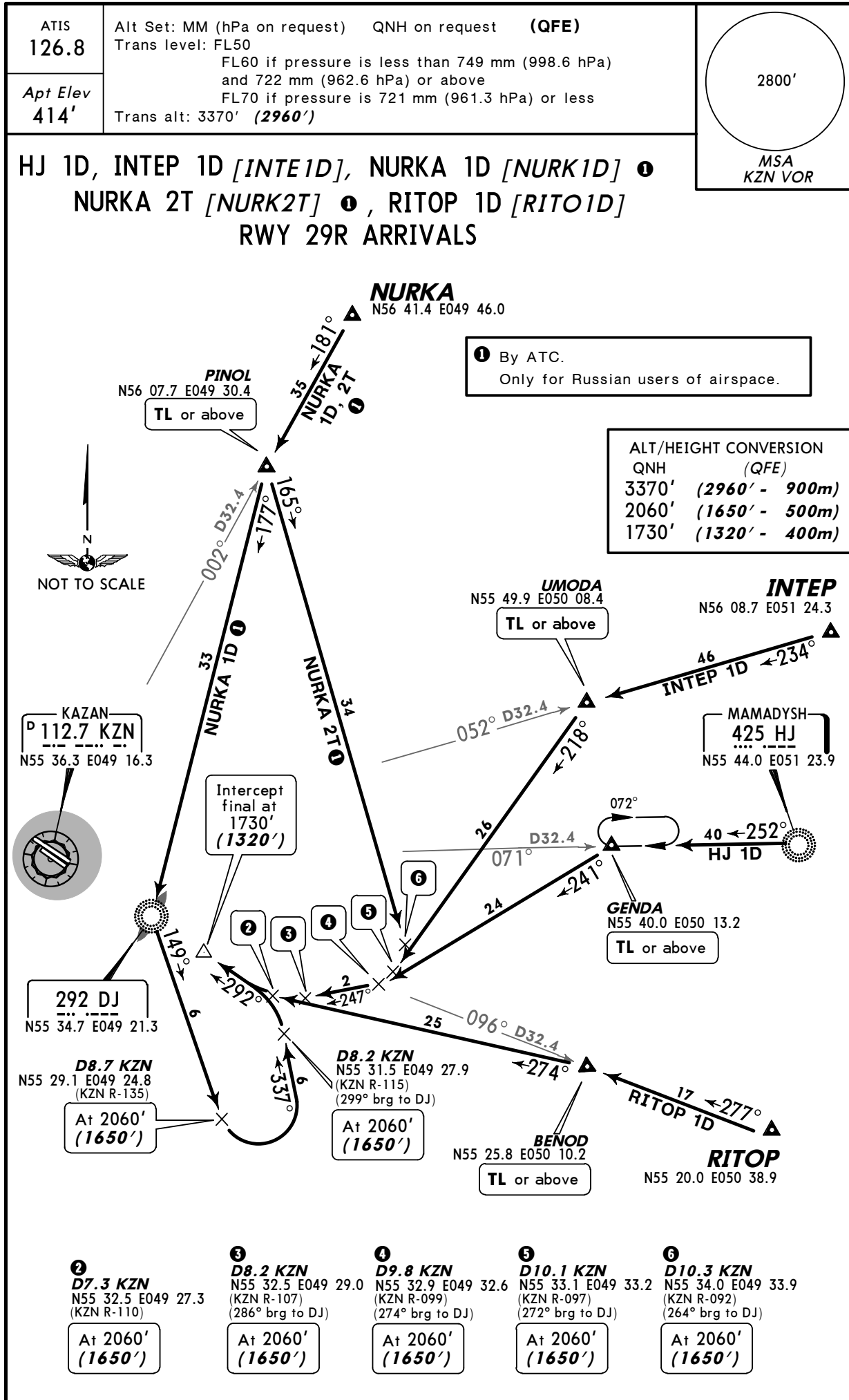
STAR



UWKD/KZN
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JEPPESEN
22 JUN 12 10-2E Eff 28 Jun

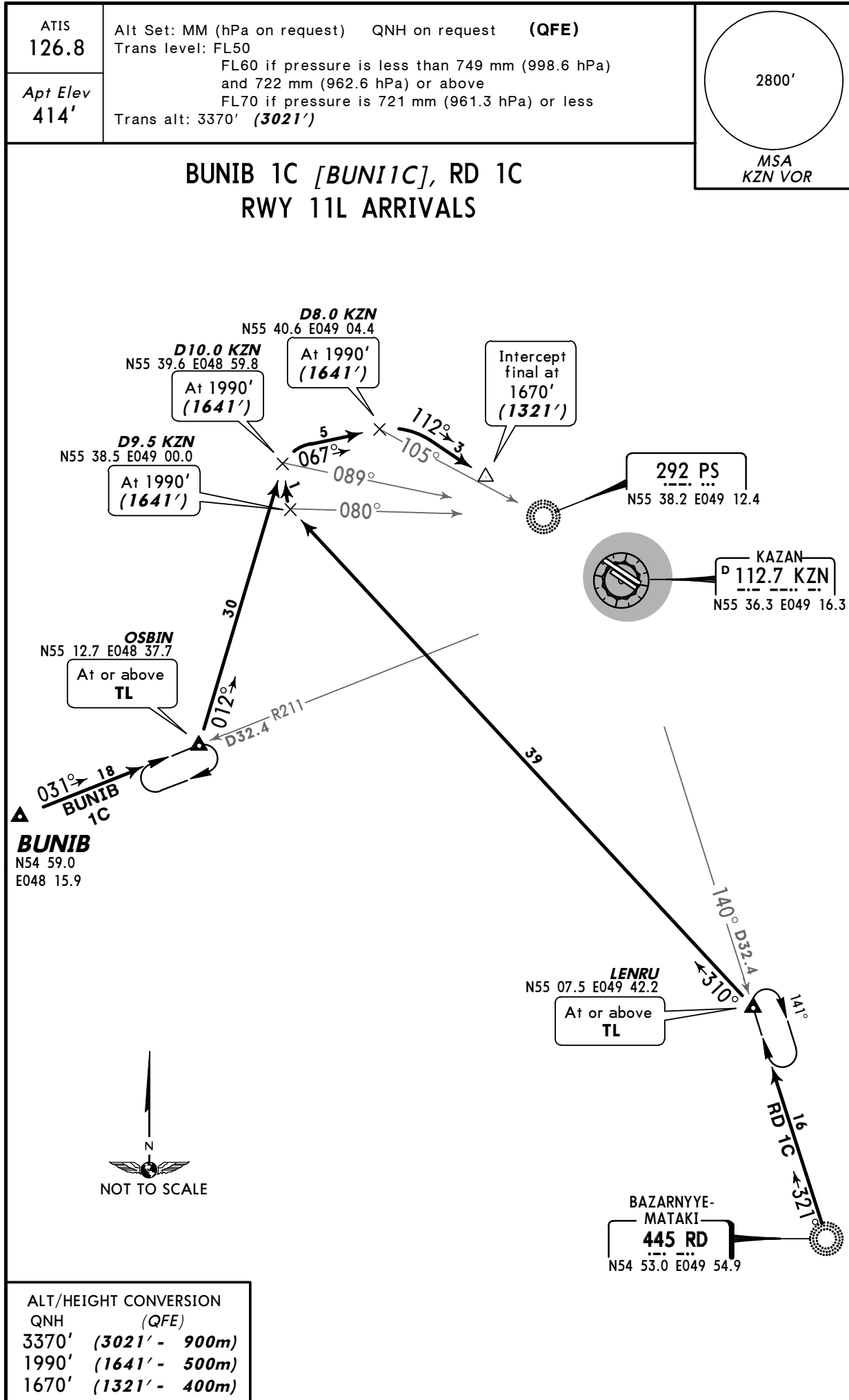
KAZAN, RUSSIA
STAR



UWKD/KZN
KAZAN

27 JUL 12 **JEPPESEN**
(10-2F)

KAZAN, RUSSIA
STAR



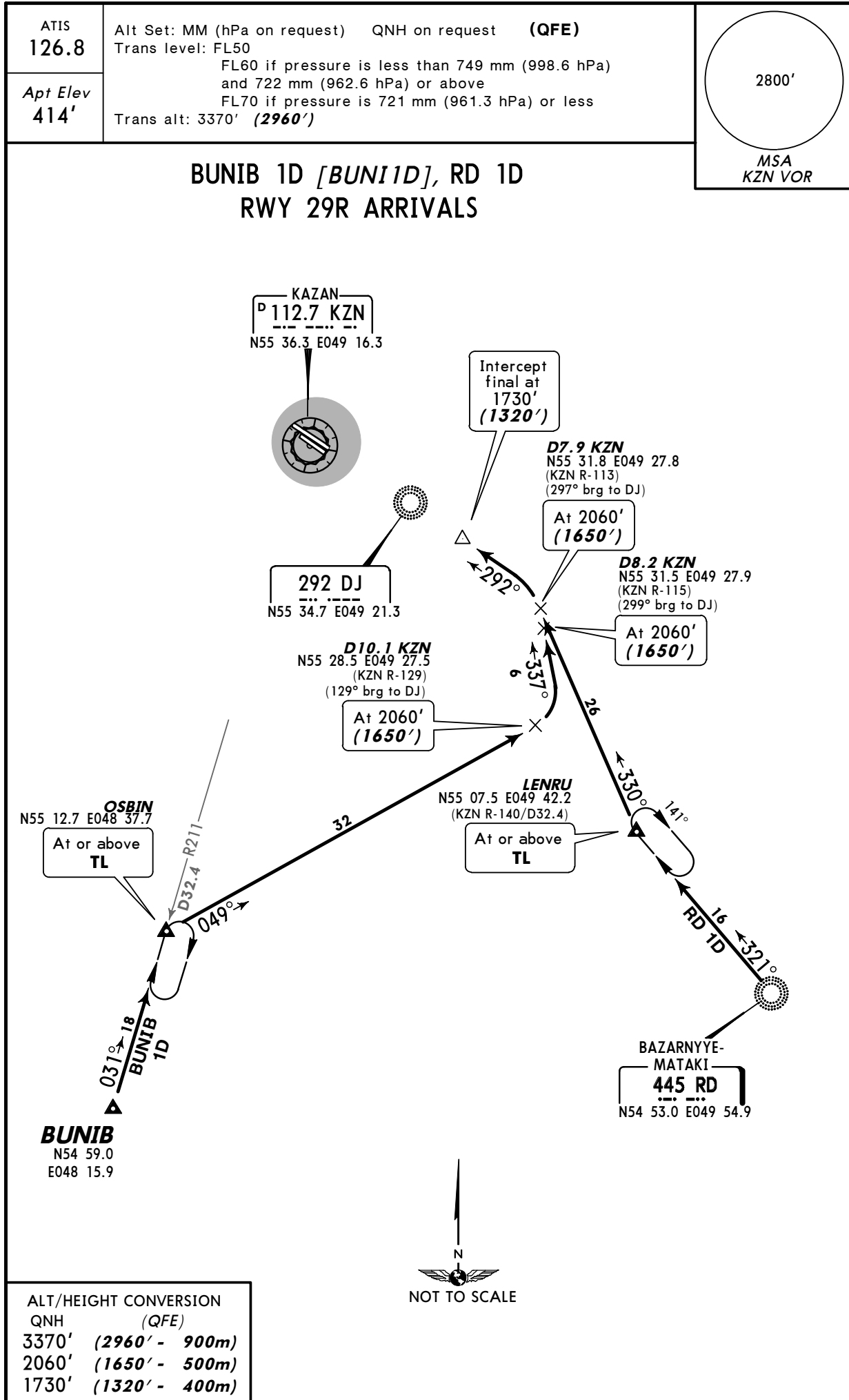
CHANGES: STAR YK 1C renamed BUNIB 1C.

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UWKD/KZN
KAZAN

27 JUL 12 **JEPPESEN**
10-2G

KAZAN, RUSSIA
STAR

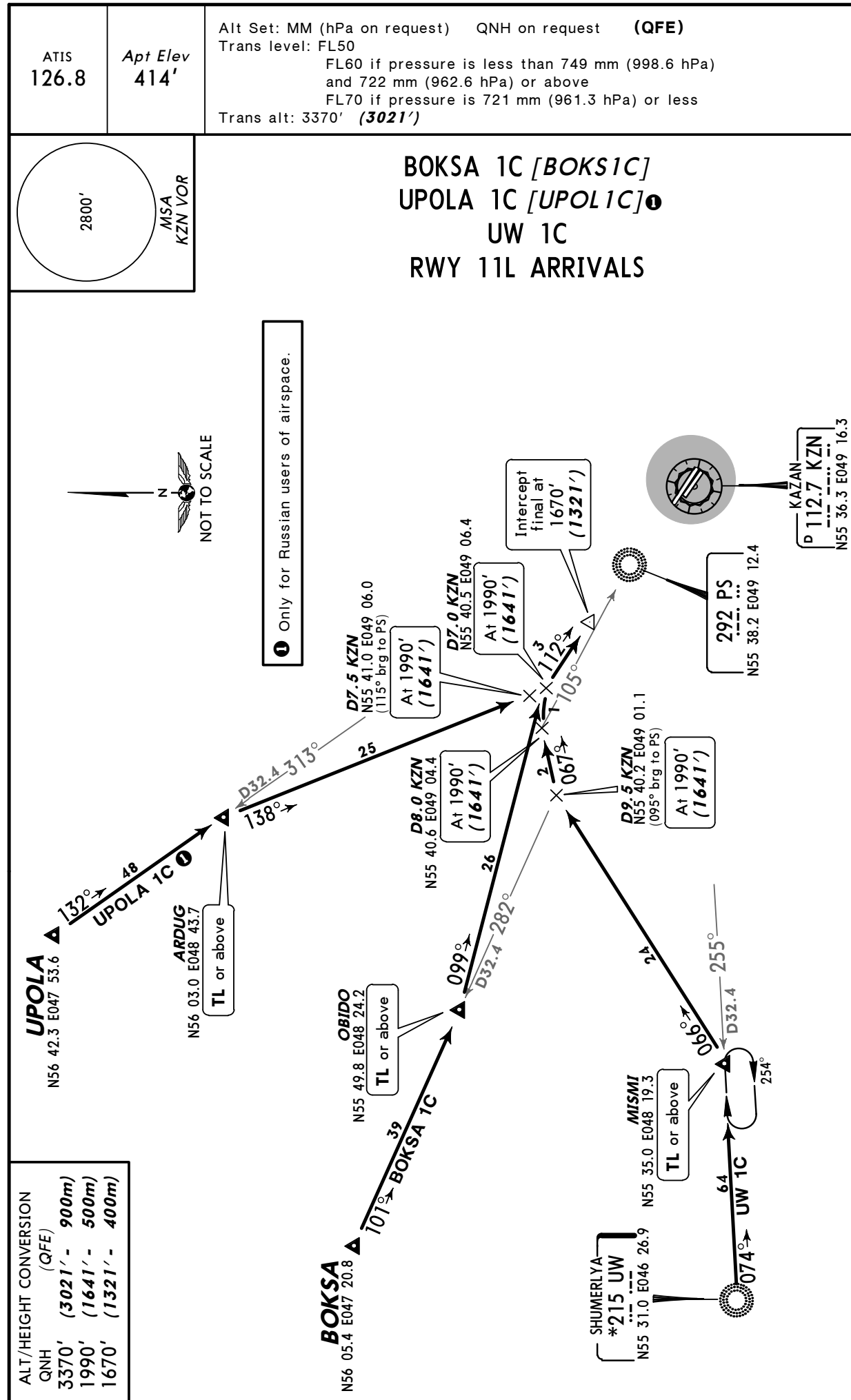


ALT/HEIGHT CONVERSION	
QNH	(QFE)
3370'	(2960' - 900m)
2060'	(1650' - 500m)
1730'	(1320' - 400m)

UWKD/KZN
KAZAN

JEPPESEN
22 JUN 12 10-2H Eff 28 Jun

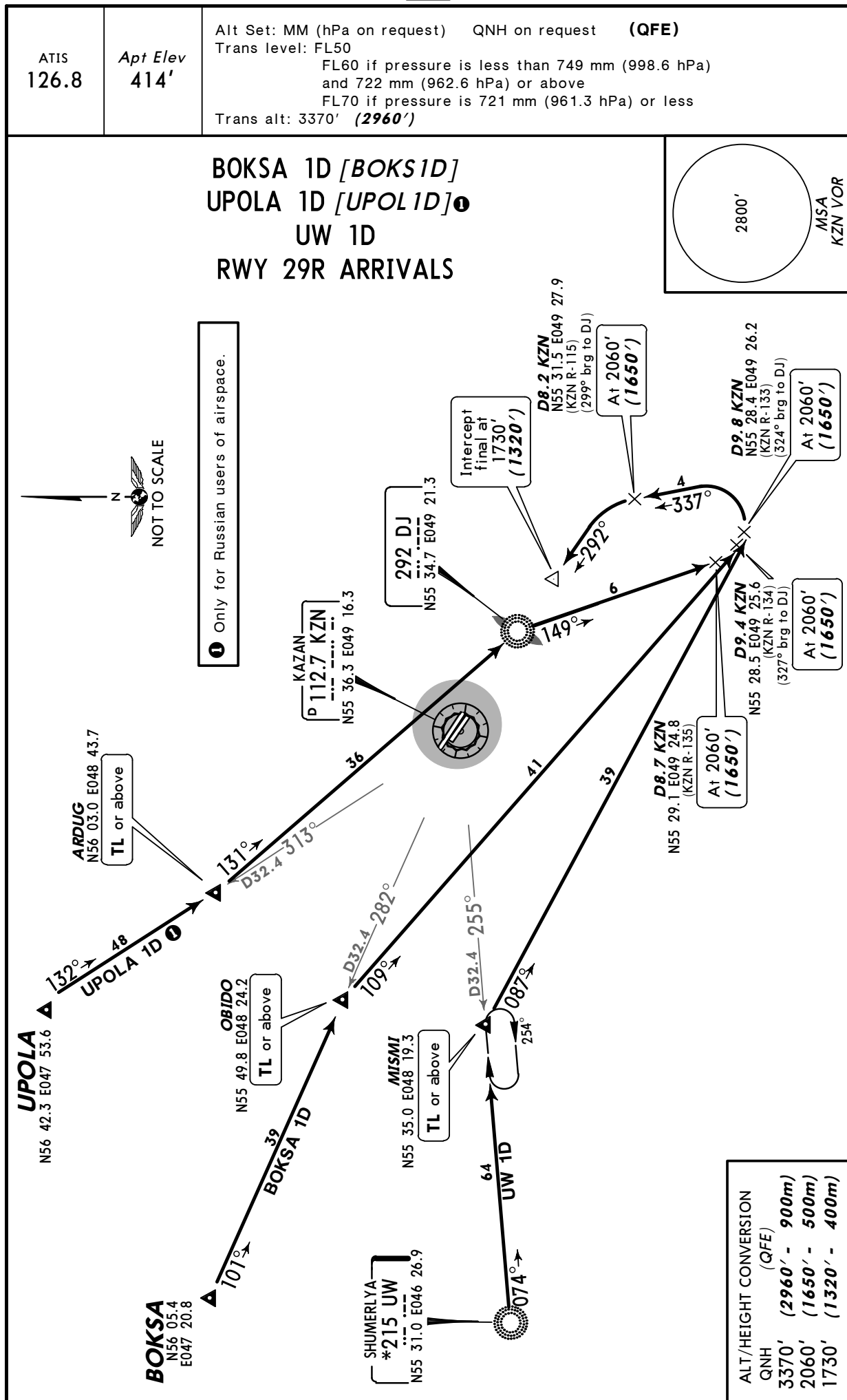
KAZAN, RUSSIA
STAR



UWKD/KZN
KAZAN

JEPPESSEN
22 JUN 12 10-2J Eff 28 Jun

KAZAN, RUSSIA
STAR



UWKD/KZN
KAZAN

JEPPESEN
22 JUN 12 10-3 Eff 28 Jun

KAZAN, RUSSIA
SID

Apt Elev
414'

QNH on request (QFE)

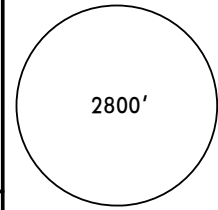
Trans level: FL50

FL60 if pressure is less than 749 mm (998.6 hPa)
and 722 mm (962.6 hPa) or above

FL70 if pressure 721 mm (961.3 hPa) or less

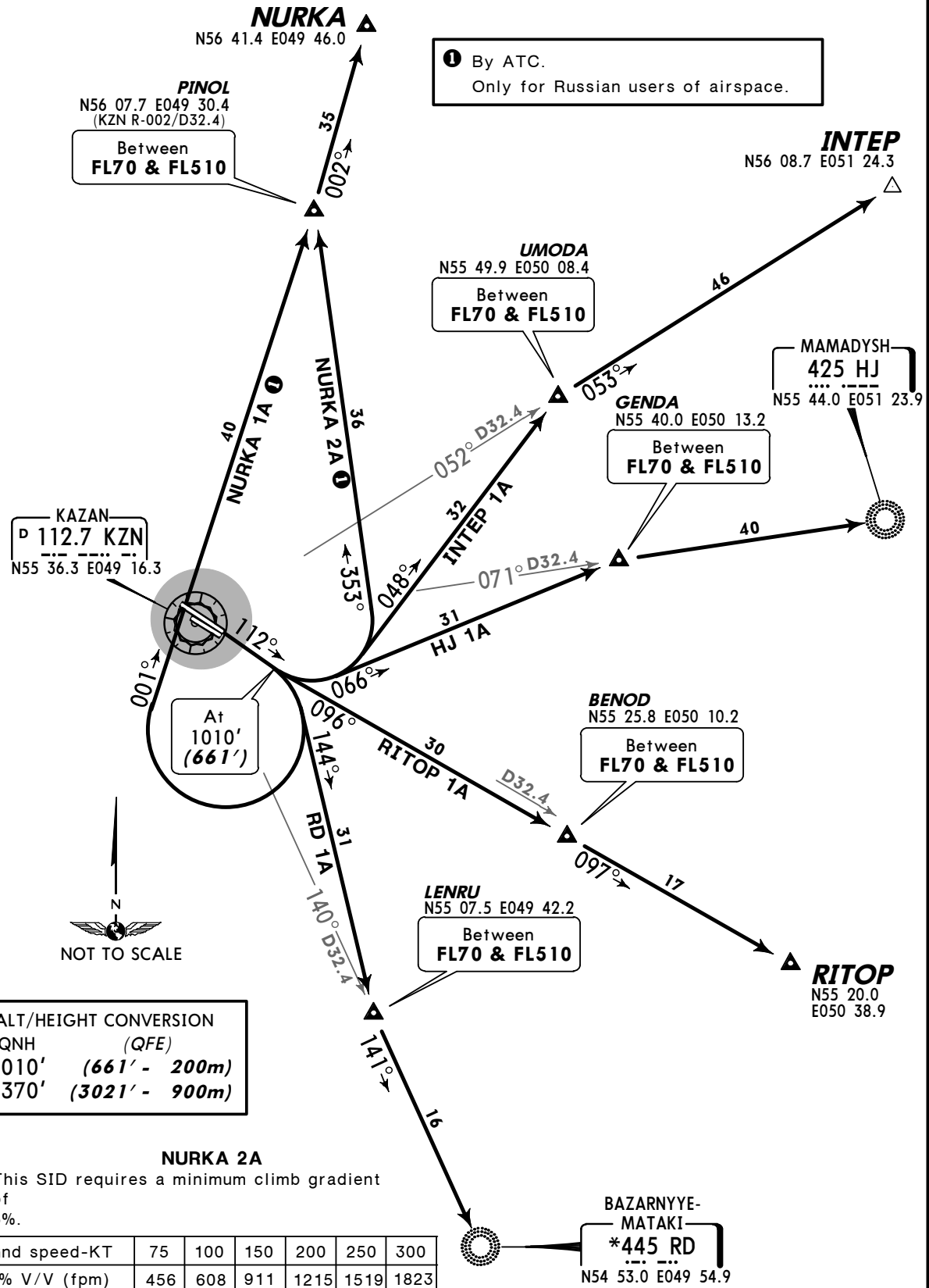
Trans alt: 3370' (3021')

FL by ATC



MSA
KZN VOR

HJ 1A, INTER 1A [INTE1A], NURKA 1A [NURK1A] ①
NURKA 2A [NURK2A] ①, RD 1A, RITOP 1A [RITO1A]
RWY 11L DEPARTURES



UWKD/KZN
KAZAN

JEPPESEN
22 JUN 12 (10-3A) Eff 28 Jun

KAZAN, RUSSIA
SID

Apt Elev
414'

QNH on request (QFE)

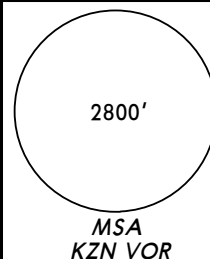
Trans level: FL50

FL60 if pressure is less than 749 mm (998.6 hPa)
and 722 mm (962.6 hPa) or above

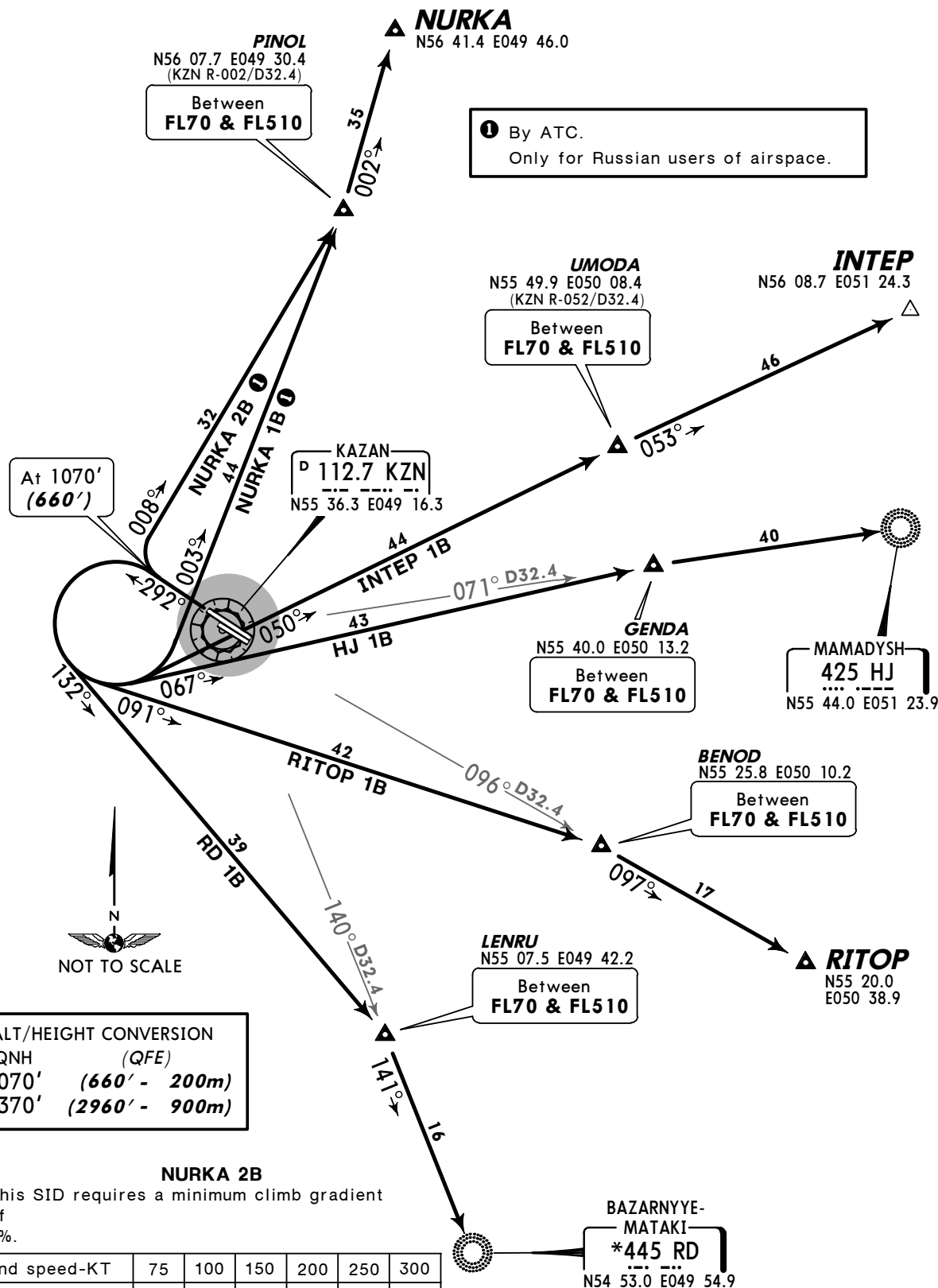
FL70 if pressure 721 mm (961.3 hPa) or less

Trans alt: 3370' (2960')

FL by ATC



HJ 1B, INTEP 1B [INTE1B], NURKA 1B [NURK1B] ①
NURKA 2B [NURK2B] ①, RD 1B, RITOP 1B [RITO1B]
RWY 29R DEPARTURES



UWKD/KZN
KAZAN

JEPPESEN
27 JUL 12 (10-3B)

KAZAN, RUSSIA
SID

Apt Elev
414'

QNH on request (QFE)

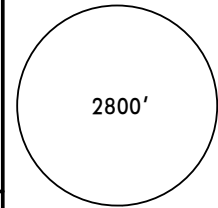
Trans level: FL50

FL60 if pressure is less than 749 mm (998.6 hPa)
and 722 mm (962.6 hPa) or above

FL70 if pressure 721 mm (961.3 hPa) or less

Trans alt: 3370' (3021')

FL by ATC



MSA
KZN VOR

BOKSA 1A [BOKS1A], BUNIB 1A [BUN11A]
UPOLA 1A [UPOL1A] ●, UW 1A
RWY 11L DEPARTURES

UPOLA

N56 42.3 E047 53.6 ▲

ARDUG

N56 03.0 E048 43.7

Between
FL70 & FL510

① Only for Russian users of airspace.

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UWKD/KZN
KAZANJEPPESEN
27 JUL 12 10-3CKAZAN, RUSSIA
SIDApt Elev
414'

QNH on request (QFE)

Trans level: FL50

FL60 if pressure is less than 749 mm (998.6 hPa)
and 722 mm (962.6 hPa) or above

FL70 if pressure 721 mm (961.3 hPa) or less

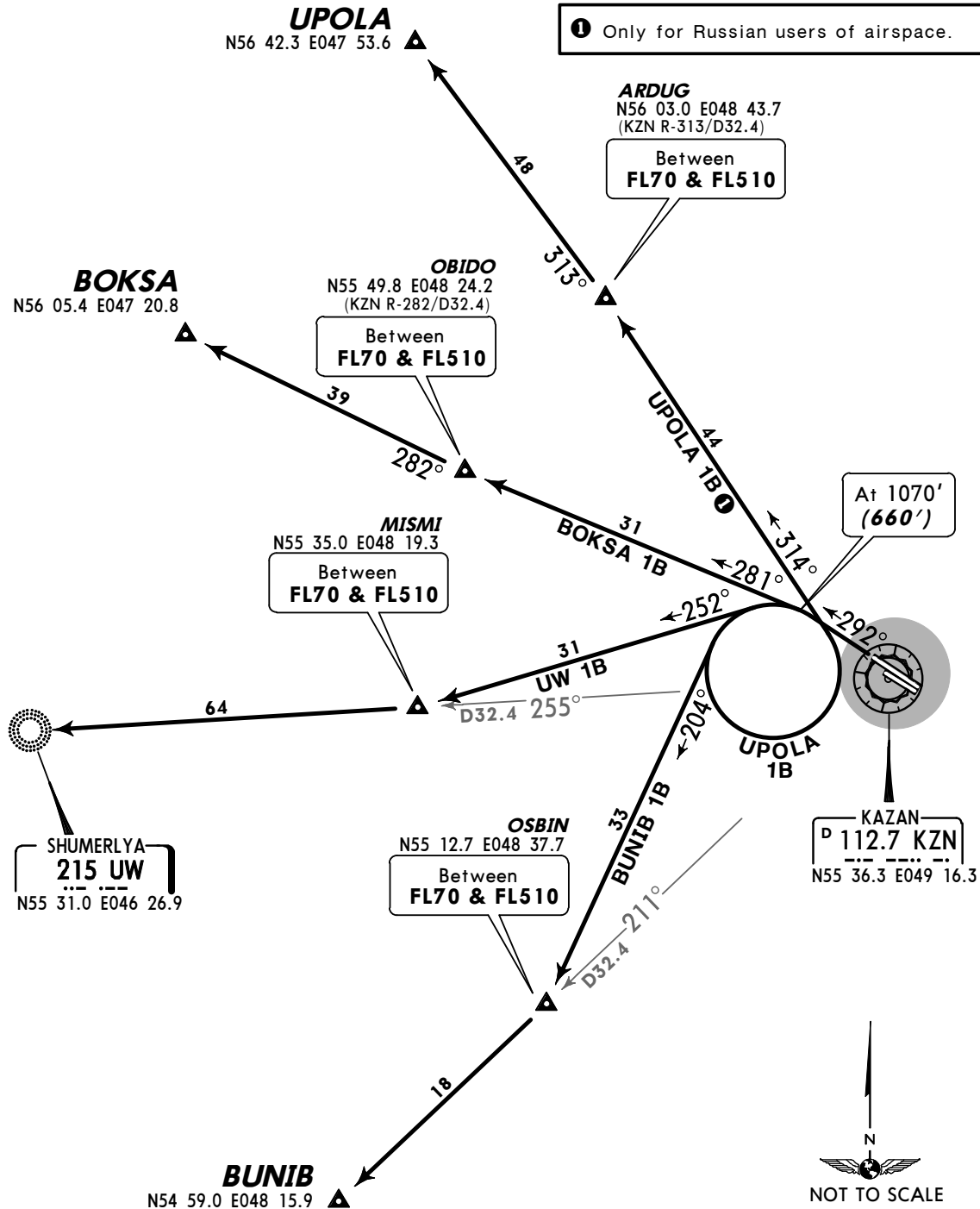
Trans alt: 3370' (2960')

FL by ATC

2800'

MSA
KZN VORBOKSA 1B [BOKS1B], BUNIB 1B [BUNI1B]
UPOLA 1B [UPOL1B] ●, UW 1B
RWY 29R DEPARTURES

① Only for Russian users of airspace.



UWKD/KZN
KAZANJEPPESEN
29 OCT 04 10-4KAZAN, RUSSIA
NOISE

NOISE ABATEMENT

GENERAL

Noise abatement procedures shall not be executed at the expense of reduction of flight safety.

DEPARTURES

Special take-off procedures for the purpose of noise abatement when passing above terrain arid conditioned and environmentally protected shall be executed by crews of all aircraft:

TAKE-OFF AND CLIMBING PHASE RUNWAYS 29L/R

Take-off to 1900' (1486'-450m)	Take-off power take-off flaps climb at $V_2 + 10-20$ KT at 1080' (666'-200m) turn with 25° bank
At 1900' (1486'-450m)	reduce engine power to rated power under keeping of positive rate of climb
From 1900' (1486'-450m) to 3370' (2956'-900m)	climb at $V_2 + 10-20$ KT
At 3370' (2956'-900m)	accelerate to speed of wing devices retraction retract wing devices further climb (reaching FL) shall be executed at a speed recommended by the Airplane Flight Manual.

Noise abatement procedure during take-off shall not be carried out in cases of:

- wind shear
- moderate bumpiness
- icing
- one of the aircraft engines failure during take-off phase.

UWKD/KZN

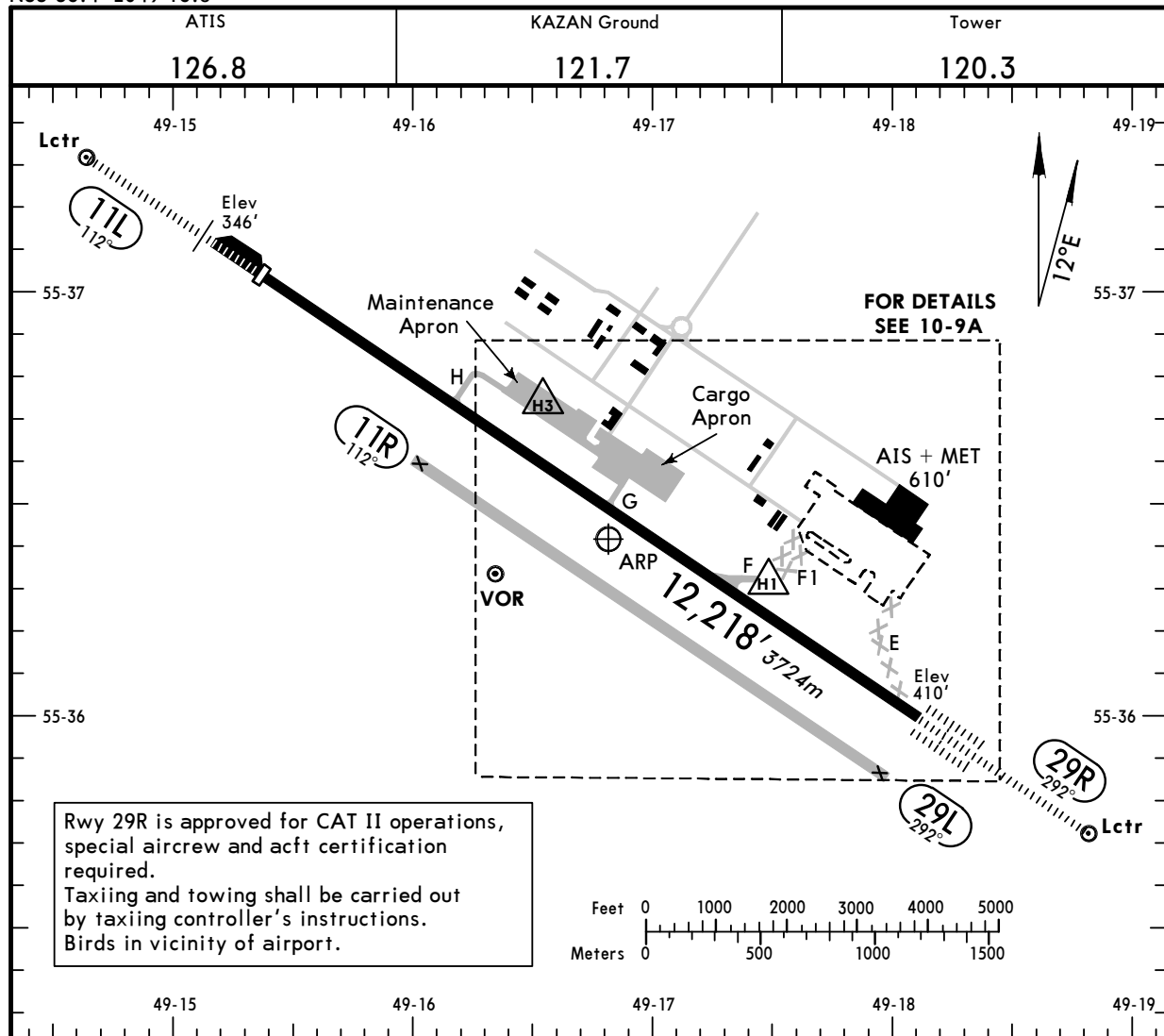
Apt Elev **414'**
N55 36.4 E049 16.8

JEPPESSEN

22 JUN 12 (10-9) Eff 28 Jun

KAZAN, RUSSIA

KAZAN



ADDITIONAL RUNWAY INFORMATION

RWY		USABLE LENGTHS		TAKE-OFF	WIDTH
		Threshold	Landing Beyond		
11L	HIRL(60m) CL(15m) HIALS PAPI-L(3.0°)	11,381' 3469m	10,591' 3228m	1	148' 45m
29R	HIRL(60m) CL(15m) HIALS-II TDZ PAPI-L(3.0°)		11,246' 3428m		
11R	Runway under reconstruction				
29L	Runway under reconstruction				

1 TAKE-OFF RUN AVAILABLE

RWY 11L:

First 837'/255m unusable for take-off.

From displ thresh 11,381'(3469m)

twy H int 8091'(2466m)

twy G int 5427'(1654m)

twy F int 3596'(1096m)

RWY 29R:

From rwy head 12,218'(3724m)

twy F int 8655'(2638m)

twy G int 6791'(2070m)

twy H int 4127'(1258m)

TAKE-OFF

AIR CARRIER (JAA)

Main rwy 11L/29R

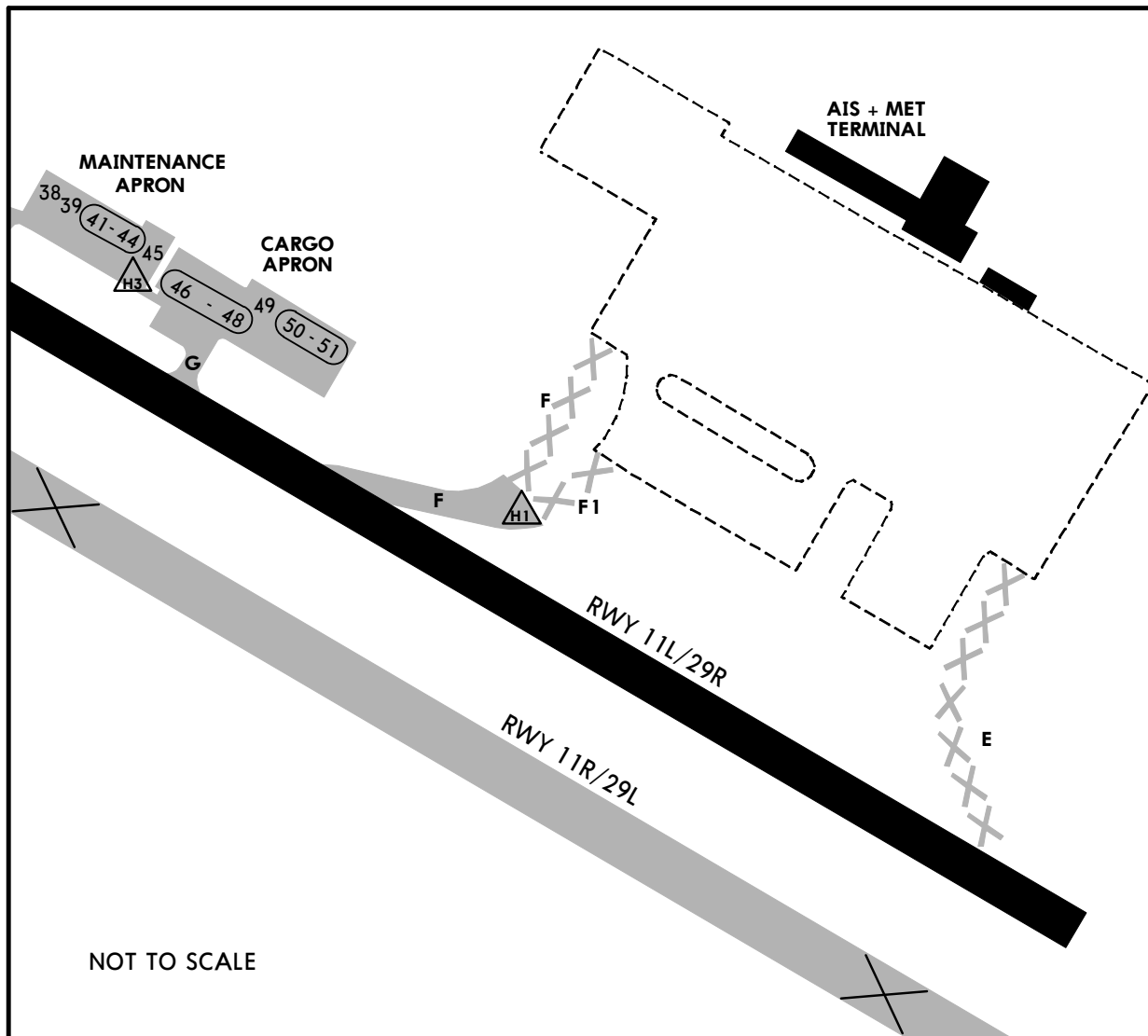
LVP must be in force

	RL & CL	RCLM (DAY only) or RL	RCLM (DAY only) or RL
A			
B	200m (150m)	250m	400m
C			
D	250m (200m)	300m	

UWKD/KZN

22 JUN 12 **10-9A** Eff 28 Jun

KAZAN, RUSSIA
KAZAN



INS COORDINATES

STAND No.	COORDINATES
38, 39	N55 36.8 E049 16.5
41	N55 36.8 E049 16.6
42	N55 36.7 E049 16.6
43 thru 45	N55 36.7 E049 16.7
46	N55 36.6 E049 16.8
47, 48	N55 36.6 E049 16.9
49, 50	N55 36.6 E049 17.0
51	N55 36.5 E049 17.1

Use of stands 38 thru 44 and 46 thru 48 by towing.
Stand 44 available for helicopters.

UWKD/KZN


JEPPESEN
 22 JUN 12 **10-9S** **Eff 28 Jun**
Standard
KAZAN, RUSSIA
KAZAN

STRAIGHT-IN RWY		A	B	C	D
11L	ILS	549'(200')	549'(200')	549'(200')	549'(200')
	FULL	R550m	R550m	R550m	R550m
	Limited	R750m	R750m	R750m	R750m
	ALS out	R1200m	R1200m	R1200m	R1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	RNAV ①	720'(371')	720'(371')	720'(371')	720'(371')
		R1000m	R1000m	R1000m	R1000m
	ALS out	R1500m	R1500m	R1700m	R1700m
	NDB ①	680'(331')	680'(331')	680'(331')	680'(331')
		R800m	R800m	R800m	R800m
	ALS out	R1500m	R1500m	R1500m	R1500m
29R	CAT 2 ILS	510'(100')	510'(100')	510'(100')	510'(100')
		RA113' R350m	RA113' R350m	RA113' R350m	RA113' R350m
	ILS	610'(200')	610'(200')	610'(200')	610'(200')
	FULL	R550m	R550m	R550m	R550m
	Limited	R750m	R750m	R750m	R750m
	ALS out	R1200m	R1200m	R1200m	R1200m
	LOC	NOT AUTH	NOT AUTH	NOT AUTH	NOT AUTH
	RNAV ①	860'(450')	860'(450')	860'(450')	860'(450')
		R1400	R1400	R1400	R1400
	ALS out	R1500m	R1500m	C2100m	C2100m
	NDB ①	860'(450')	860'(450')	860'(450')	860'(450')
		R1400	R1400	R1400	R1400
	ALS out	R1500m	R1500m	C2100m	C2100m

① Continuous Descent Final Approach.

TAKE-OFF RWY 11L, 29R

	Approved Operators HIRL, CL & mult. RVR req	LVP must be in Force			RCLM (DAY only) or RL	RCLM (DAY only) or RL	NIL (DAY only)
		RL, CL & mult. RVR req	RL & CL	RCLM (DAY only) or RL			
A	125m	150m	200m	250m	400m		500m
B							
C							
D	150m	200m	250m	300m			

UWKD/KZN


JEPPESEN
 22 JUN 12 **10-9X** **Eff 28 Jun**
JAA MINIMUMS
KAZAN, RUSSIA
KAZAN

STRAIGHT-IN RWY		A	B	C	D
11L	ILS	549' (200')	549' (200')	549' (200')	549' (200')
		R550m	R550m	R550m	R550m
	<i>ALS out</i>	R1000m	R1000m	R1000m	R1000m
	LOC	NOT AUTHORIZED			
	RNAV	720' (371')	720' (371')	720' (371')	720' (371')
		R900m	R1000m	R1000m	R1400m
	<i>ALS out</i>	R1500m	R1500m	R1800m	R2000m
	NDB	680' (331')	680' (331')	680' (331')	680' (331')
		R900m	R1000m	R1000m	R1400m
	<i>ALS out</i>	R1500m	R1500m	R1800m	R2000m
29R	CAT 2 ILS	510' (100')	510' (100')	510' (100')	510' (100')
		RA 113' R350m	RA 113' R350m	RA 113' R350m	RA 113' R350m
	ILS	610' (200')	610' (200')	610' (200')	610' (200')
		R550m	R550m	R550m	R550m
	<i>ALS out</i>	R1000m	R1000m	R1000m	R1000m
	LOC	NOT AUTHORIZED			
	RNAV	860' (450')	860' (450')	860' (450')	860' (450')
		R1000m	R1200m	R1200m	R1600m
	<i>ALS out</i>	R1500m	R1500m	R2000m	R2000m
	NDB	860' (450')	860' (450')	860' (450')	860' (450')
		R1000m	R1200m	R1200m	R1600m
	<i>ALS out</i>	R1500m	R1500m	R2000m	R2000m

TAKE-OFF RWY 11L

LVP must be in Force			
RCLM (DAY only) or RL		RCLM (DAY only) or RL	NIL (DAY only)
A	250m	400m	500m
B			
C			
D	300m		

TAKE-OFF RWY 29R

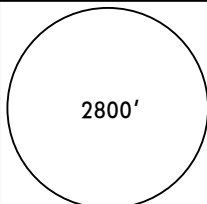
LVP must be in force					
Approved Operators HIRL, CL & mult. RVR req	RL, CL & mult. RVR req	RL & CL	RCLM (DAY only) or RL	RCLM (DAY only) or RL	NIL (DAY only)
A	125m	150m	200m	250m	400m
B					
C					
D	150m	200m	250m	300m	500m

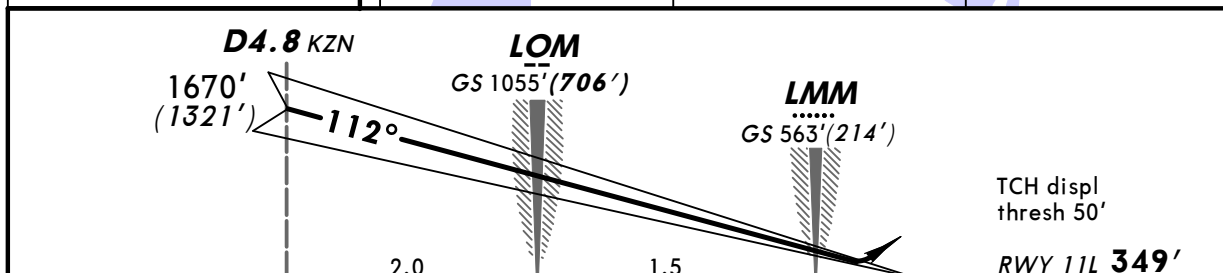
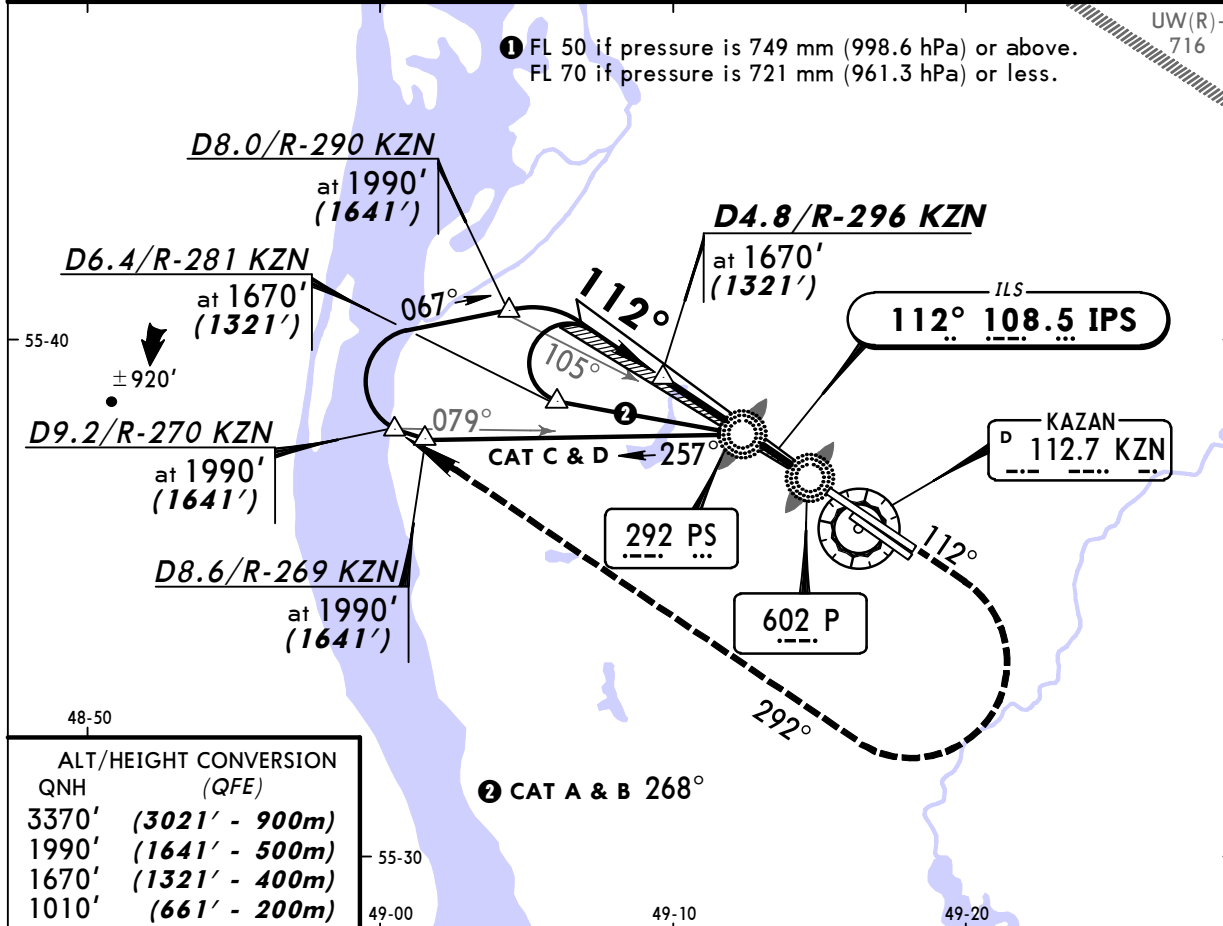
UWKD/KZN
KAZAN

JEPPESEN
22 JUN 12 **11-1** Eff 28 Jun

KAZAN, RUSSIA
ILS Rwy 11L

BRIEFING STRIP

ATIS 126.8		KAZAN Radar (APP/R) 119.4		KAZAN Tower 120.3		Ground 121.7
LOC IPS 108.5	Final Apch Crs 112°	GS LOM 1055' (706')	ILS DA(H) 549' (200')	Apt Elev 414' RWY 349'		
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 60 ① Trans alt: 3370' (3021')						MSA KZN VOR



Gnd speed-Kts	70	90	100	120	140	160	HIALS	1010' (661') on 112°	292° RT	1990' (1641')
ILS GS	3.00°	372	478	531	637	743	849			

STRAIGHT-IN LANDING RWY 11L		LOC (GS out)	
ILS			
DA(H) 549' (200')			
FULL	ALS out		
A			
B			
C	800m	1200m	NOT AUTHORIZED
D			

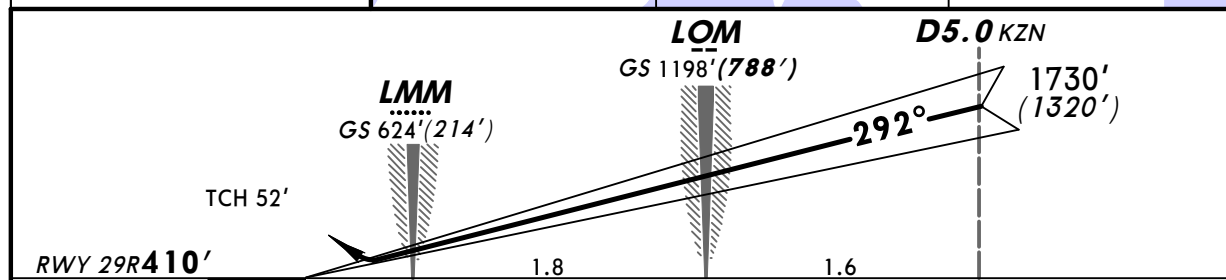
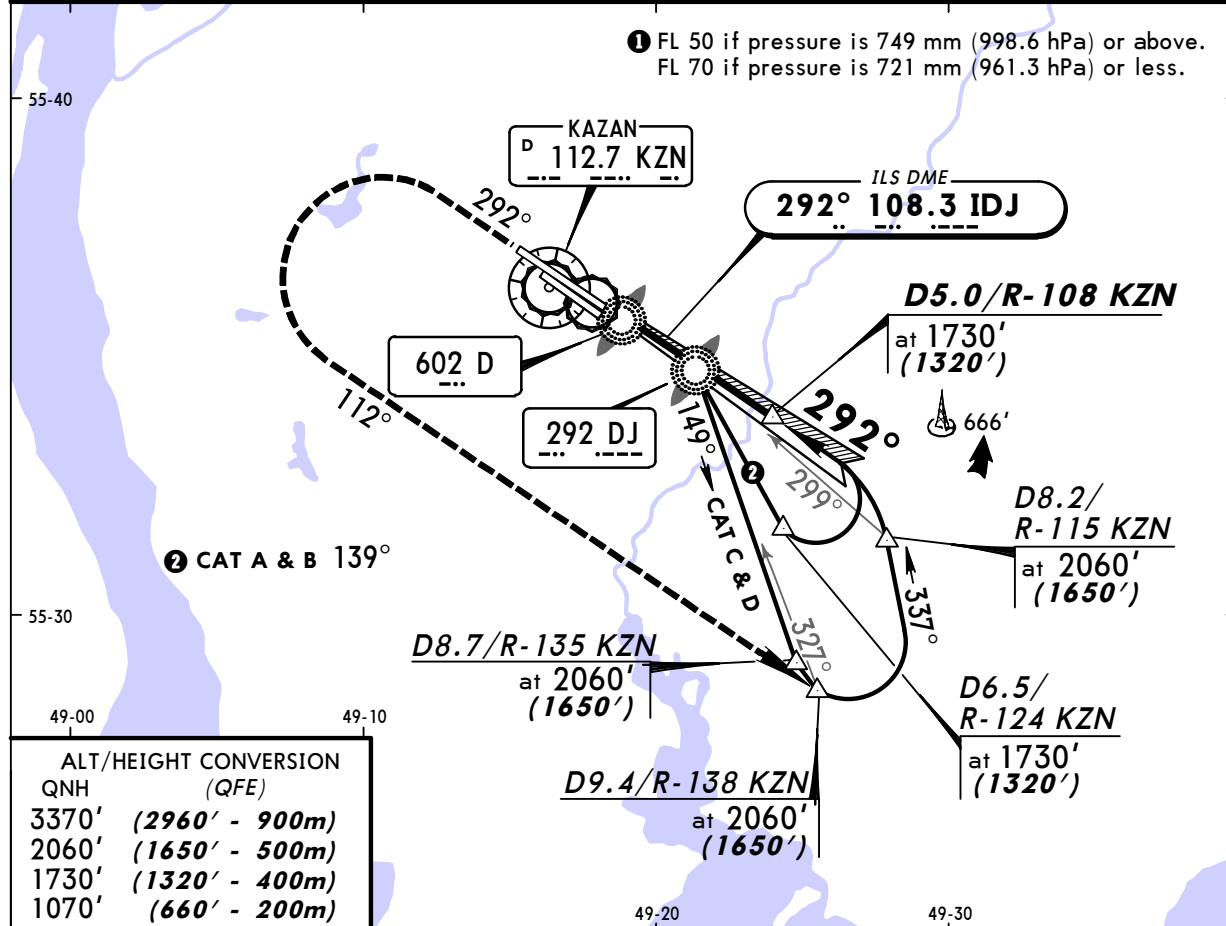
UWKD/KZN
KAZAN

JEPPESEN
22 JUN 12 (11-2) Eff 28 Jun

KAZAN, RUSSIA
ILS Rwy 29R

BRIEFING STRIP

ATIS 126.8		KAZAN Radar (APP/R) 119.4		KAZAN Tower 120.3		Ground 121.7	
LOC IDJ 108.3	Final Apch Crs 292°	GS LOM 1198'(788')	ILS DA(H) 610'(200')	Apt Elev 414'	2800' MSA KZN VOR		
RWY 410'							
MISSED APCH: Climb on 292° to 1070'(660'), then turn LEFT onto 112° climbing to 2060'(1650'), then according to chart.							
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 60 ① Trans alt: 3370'(2960')							



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II	1070' (660')	on 292°	112°	2060' (1650')
ILS GS	3.00°	372	478	531	637	743	849	PAPI		LT	

STRAIGHT-IN LANDING RWY 29R							
ILS		LOC (GS out)					
DA(H) 610' (200')							
FULL		ALS out					
A							
B							
C	800m	1200m					
D							
				NOT AUTHORIZED			

PANS OPS

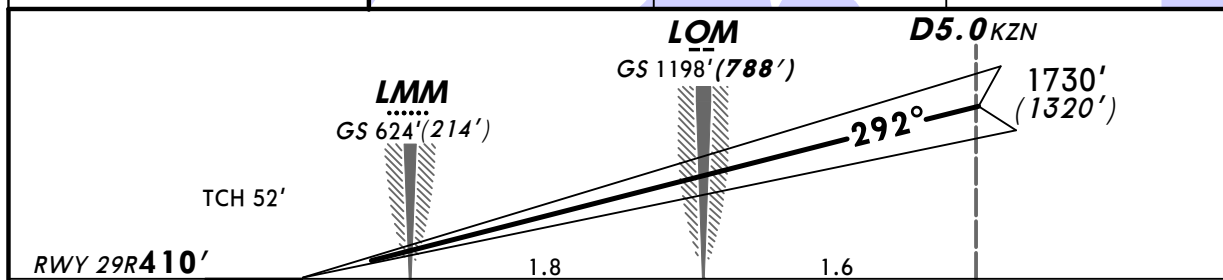
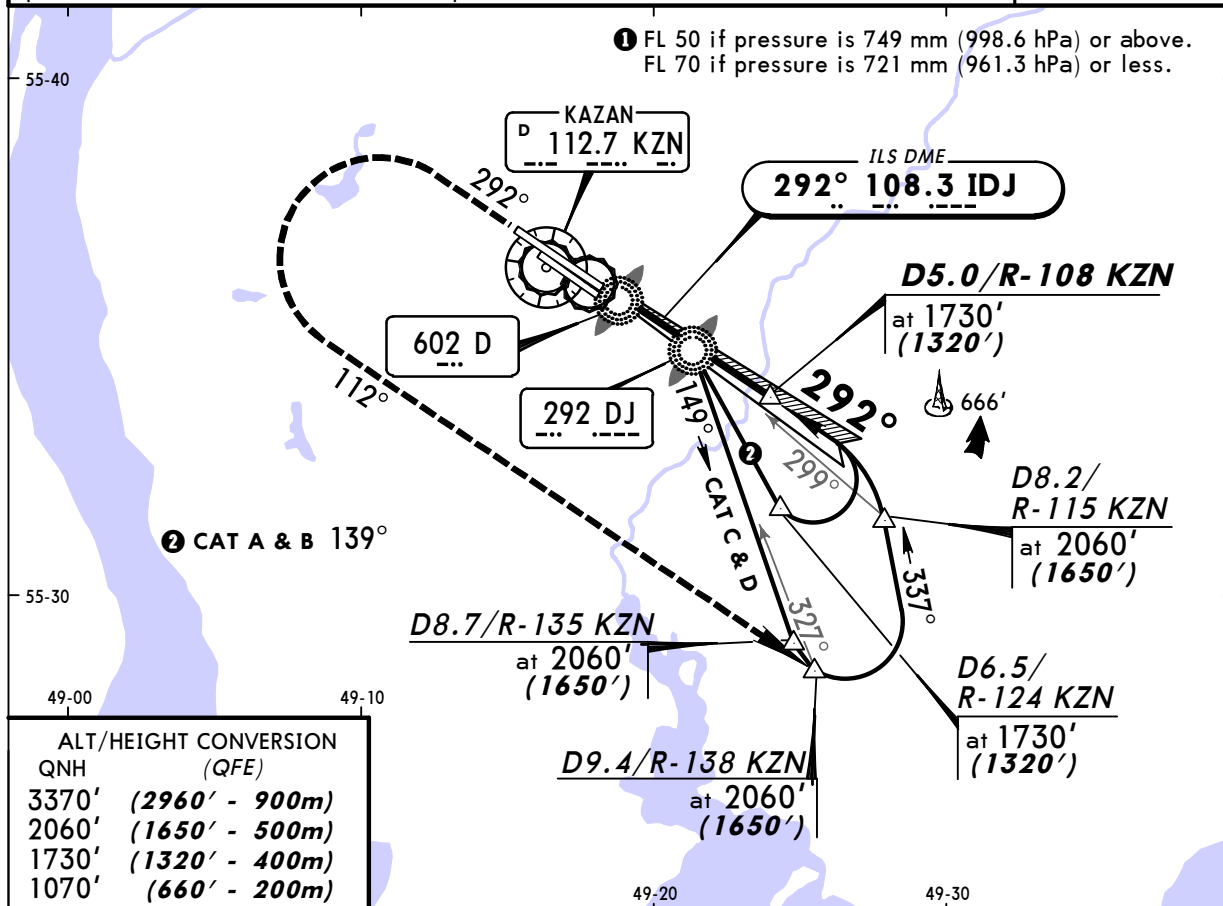
UWKD/KZN
KAZAN

22 JUN 12 **11-2A** Eff 28 Jun

KAZAN, RUSSIA
CAT II ILS Rwy 29R

BRIEFING STRIP

ATIS 126.8		KAZAN Radar (APP/R) 119.4		KAZAN Tower 120.3		Ground 121.7	
LOC IDJ 108.3	Final Apch Crs 292°	GS LOM 1198'(788')	CAT II ILS RA 113' DA(H) 510'(100')		Apt Elev 414' RWY 410'	2800' MSA KZN VOR	
MISSED APCH: Climb on 292° to 1070'(660'), then turn LEFT onto 112° climbing to 2060'(1650'), then according to chart.							
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 60 ① Trans alt: 3370' (2960') Special Aircrew & Acft Certification Required.							



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II		1070' (660')	on 292°	112°	2060' (1650')
GS	3.00°	372	478	531	637	743	849	PAPI	↑	↑	↑	↑

STRAIGHT-IN LANDING RWY 29R
CAT II ILS
ABCD
RA 113'
DA(H) 510' (100')

RVR 350m

PANS OPS

UWKD/KZN
KAZAN

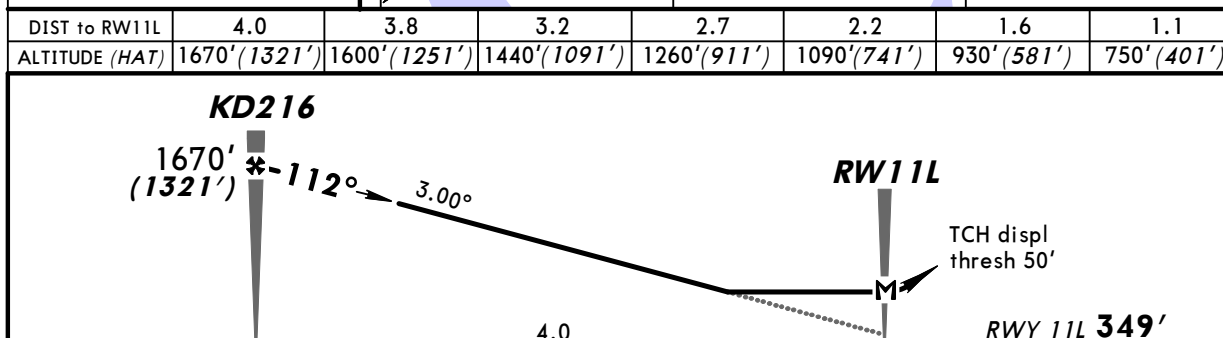
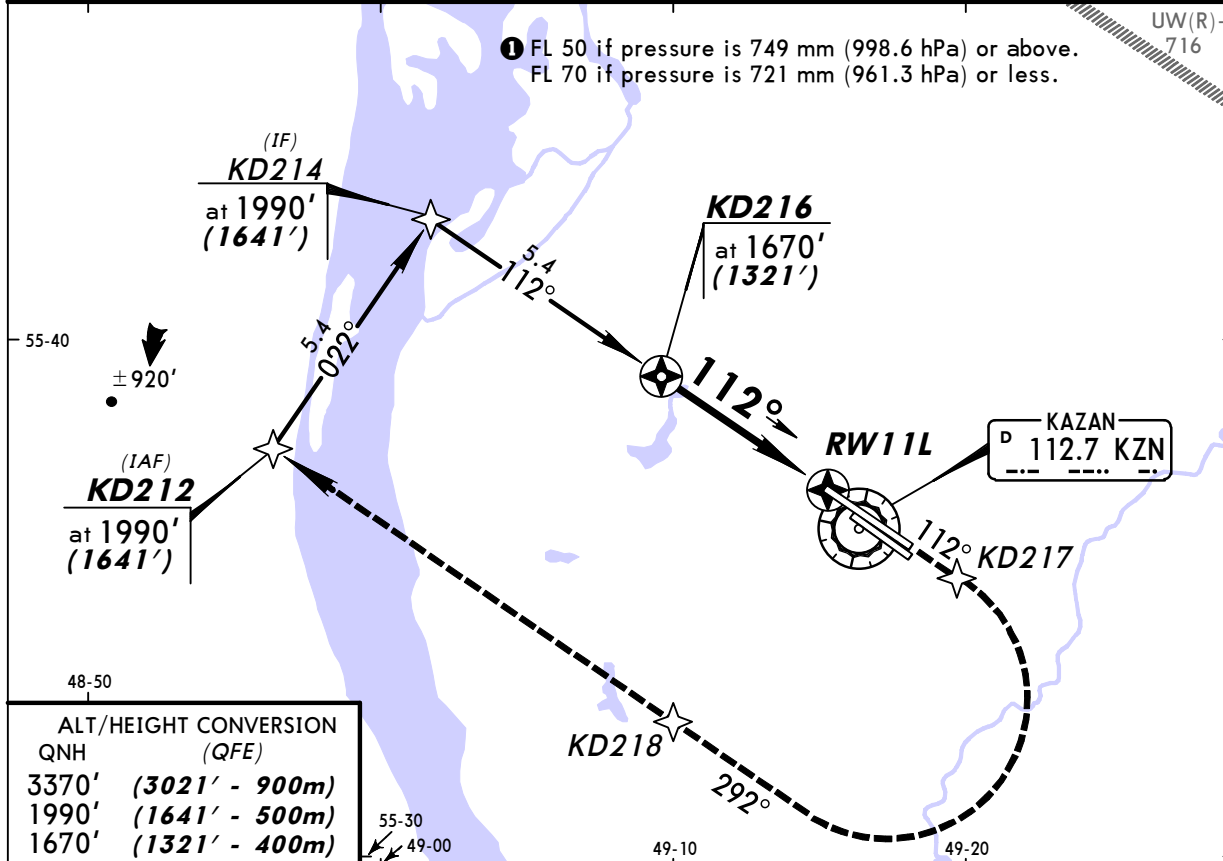
22 JUN 12
Eff 28 Jun

(12-1)

KAZAN, RUSSIA
RNAV (GNSS) Rwy 11L

BRIEFING STRIP

ATIS		KAZAN Radar (APP/R)		KAZAN Tower		Ground	
126.8		119.4		120.3		121.7	
RNAV	Final Apch Crs 112°	Minimum Alt KD216 1670' (1321')	MDA(H) 720' (371')	Apt Elev 414' RWY 349'	2800'		
MISSED APCH: Climb on 112° to KD217, then turn RIGHT onto 292° climbing to 1990' (1641') via KD218 to KD212, then as directed.							
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 60 ① Trans alt: 3370' (3021')							
					MSA KZN VOR		



TO DISPL THRESH	4.0	4.0	0
Gnd speed-Kts	70	90	100
Descent Angle	3.00°	372	478
MAP at RWY 11L			

STRAIGHT-IN LANDING RWY 11L				
MDA(H) 720'(371')				
		ALS out		
A	800m	1600m		
B				
C				
D	1600m	2000m		

UWKD/KZN
KAZAN

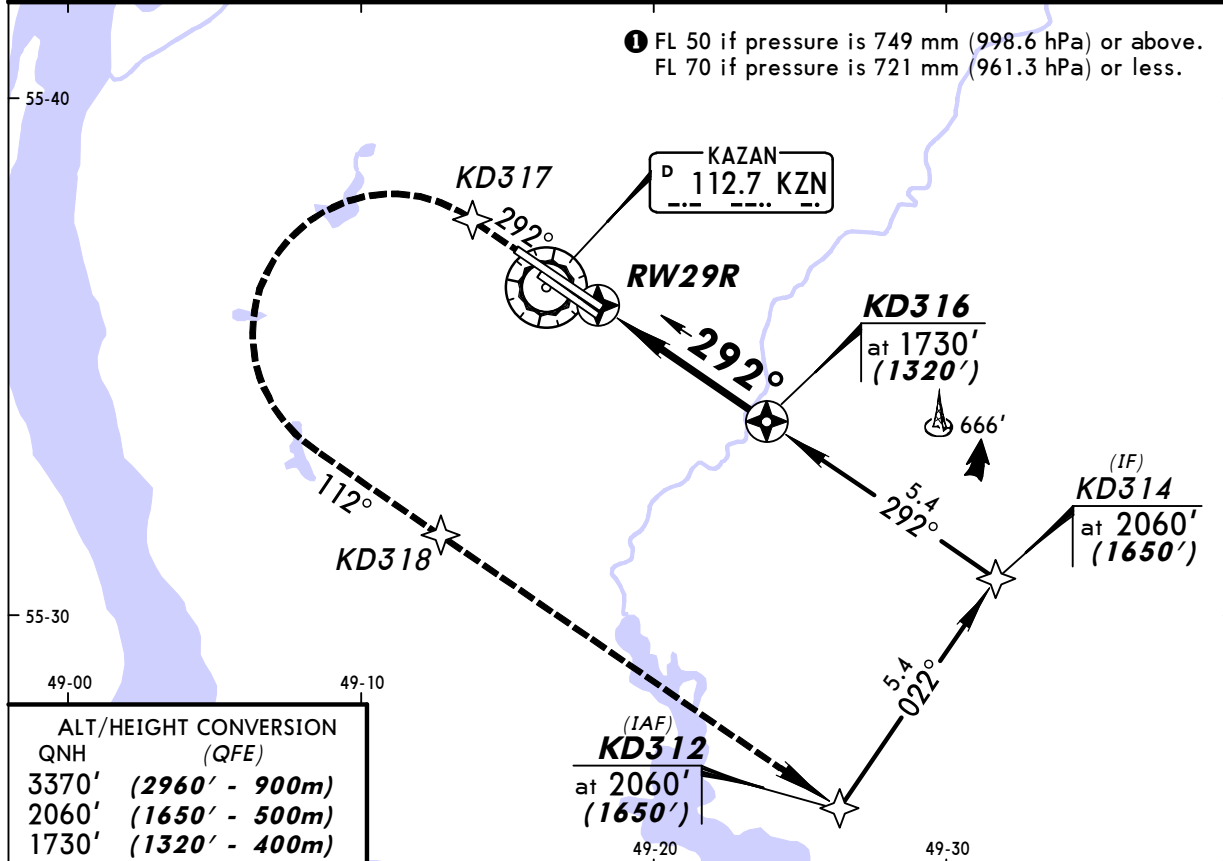
JEPPESSEN
22 JUN 12
Eff 28 Jun (12-2)

KAZAN, RUSSIA
RNAV (GNSS) Rwy 29R

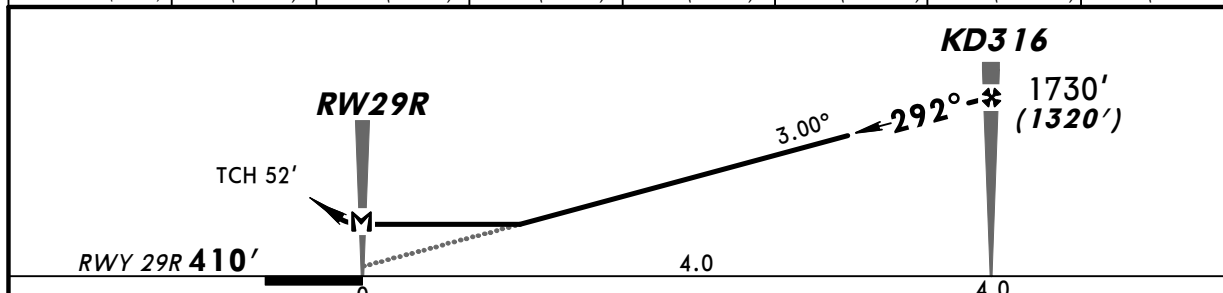
BRIEFING STRIP

ATIS		KAZAN Radar (APP/R)		KAZAN Tower		Ground	
126.8		119.4		120.3		121.7	
RNAV	Final Apch Crs 292°	Minimum Alt KD316 1730' (1320')	MDA(H) 860' (450')	Apt Elev 414' RWY 410'	2800'		
MISSED APCH: Climb on 292° to KD317, then turn LEFT onto 112° climbing to 2060' (1650') via KD318 to KD312, then as directed.							
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 60 ① Trans alt: 3370' (2960')							
					MSA KZN VOR		

① FL 50 if pressure is 749 mm (998.6 hPa) or above.
FL 70 if pressure is 721 mm (961.3 hPa) or less.



DIST to RW29R	1.1	1.6	2.2	2.7	3.2	3.8	4.0
ALTITUDE (HAT)	810' (400')	990' (580')	1150' (740')	1320' (910')	1500' (1090')	1660' (1250')	1730' (1320')



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II PAPI 	KD317 on 292°
Descent Angle	3.00°	372	478	531	637	743		
MAP at RW29R								

STRAIGHT-IN LANDING RWY 29R					
MDA(H) 860'(450')					
		ALS out			
A	800m	1600m			
B					
C	1200m	2000m			
D	1600m	2400m			

PANS OPS

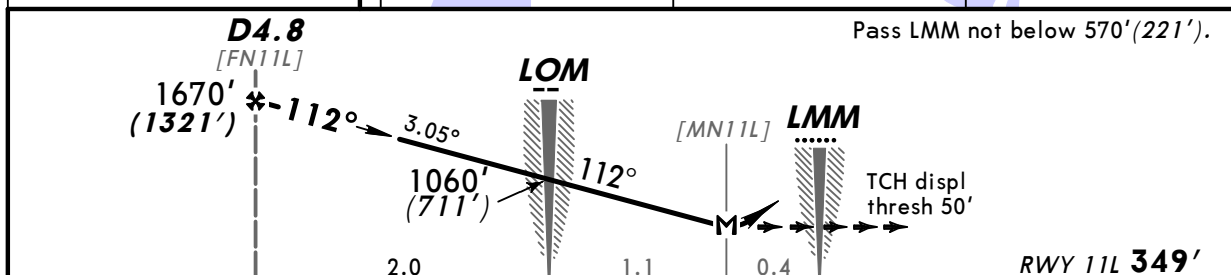
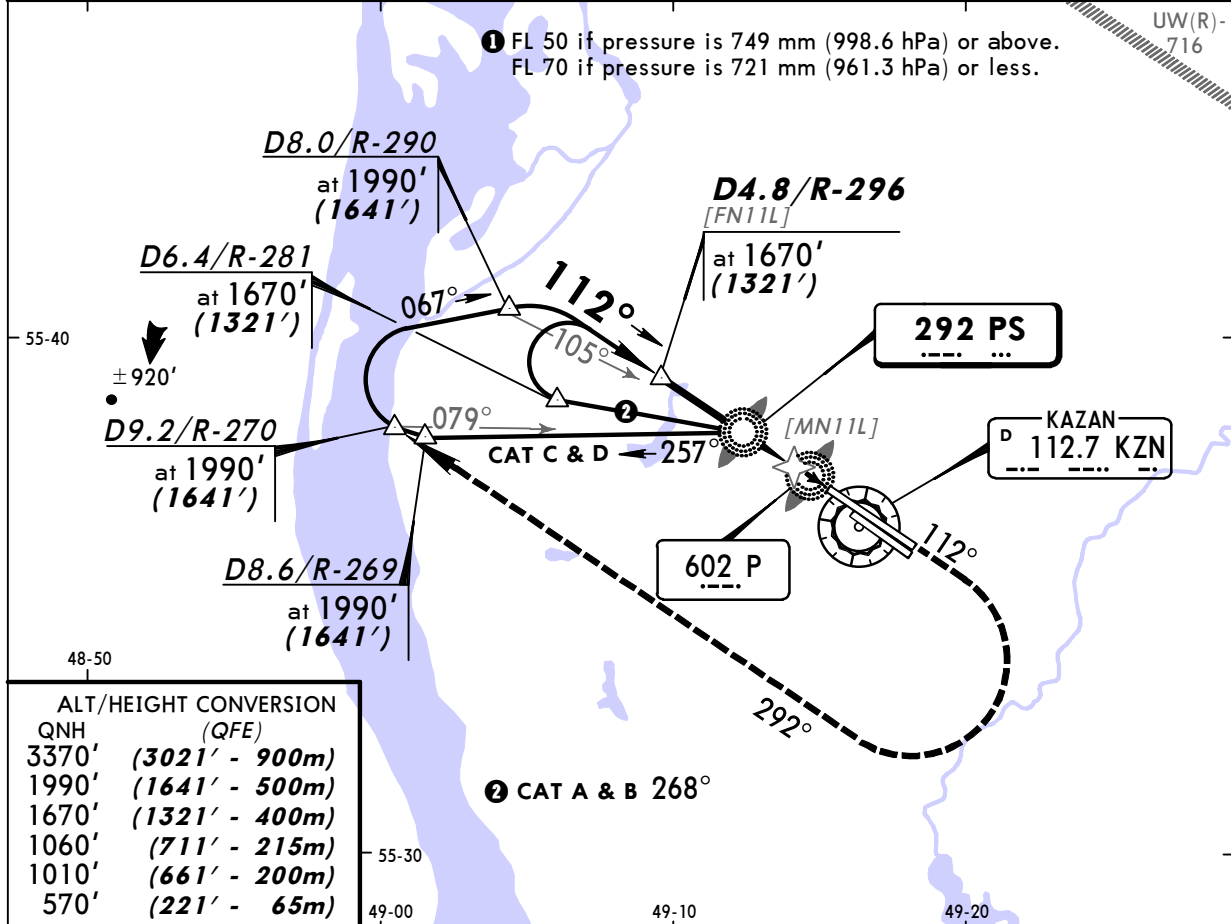
UWKD/KZN
KAZAN

JEPPESEN
22 JUN 12 (16-1) Eff 28 Jun

KAZAN, RUSSIA
2 NDB Rwy 11L

BRIEFING STRIP

ATIS 126.8		KAZAN Radar (APP/R) 119.4		KAZAN Tower 120.3		Ground 121.7	
NDB PS 292	Final Apch Crs 112°	Minimum Alt D4.8 1670'(1321')	MDA(H) 680'(331')	Apt Elev 414' RWY 349'	2800' MSA KZN VOR		
MISSED APCH: Climb on 112° to 1010'(661'), then turn RIGHT onto 292° climbing to 1990'(1641'), then according to chart.							
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 60 ① Trans alt: 3370'(3021')							



1010' (661')	on 112°	292°	1990' (1641')
↑		RT	↑

STRAIGHT-IN LANDING RWY 11L		ALS out	
MDA(H) 680' (331')			
A			
B			
C	1200m	1600m	
D			

PANS OPS

UWKD/KZN
KAZAN

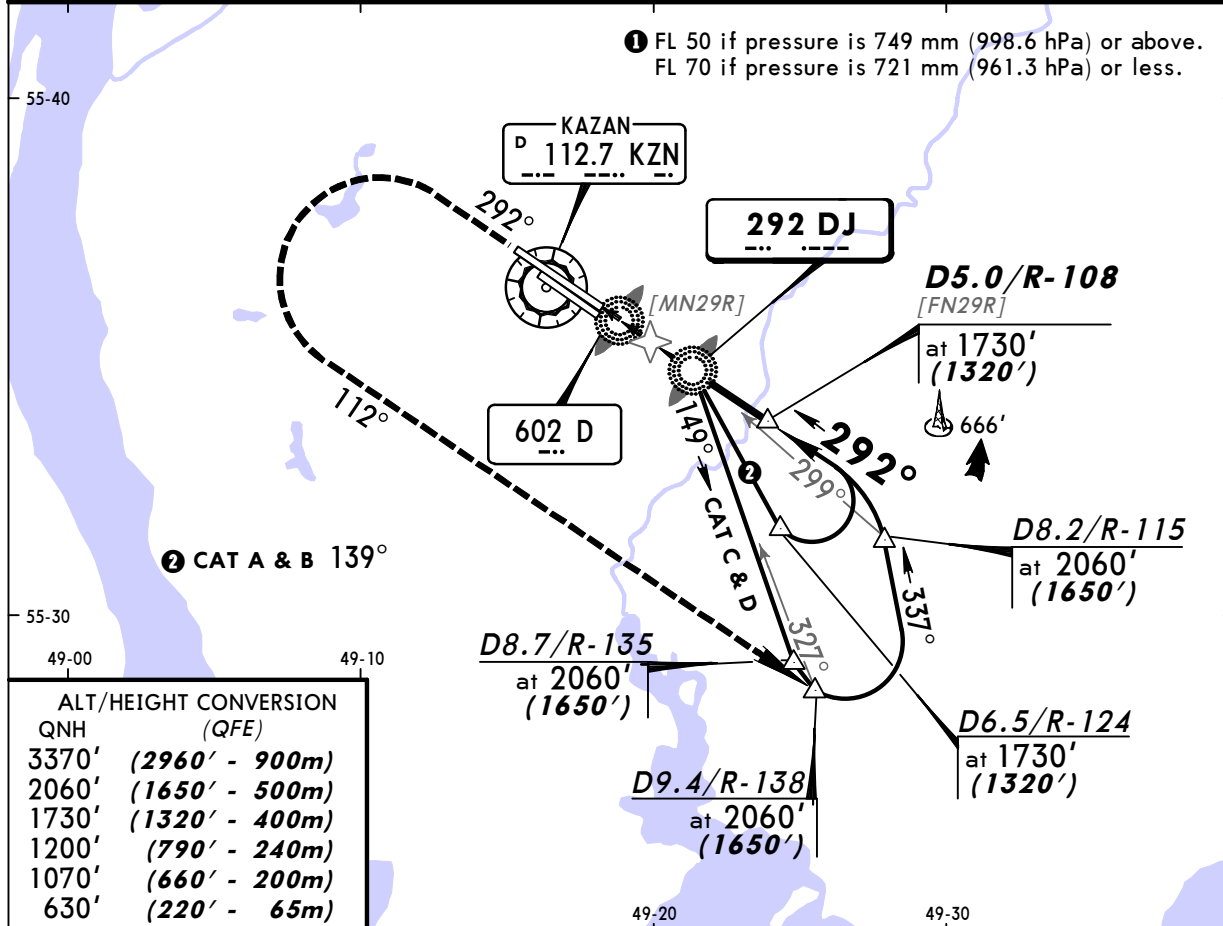
JEPPESEN
22 JUN 12 (16-2) Eff 28 Jun

KAZAN, RUSSIA
2 NDB Rwy 29R

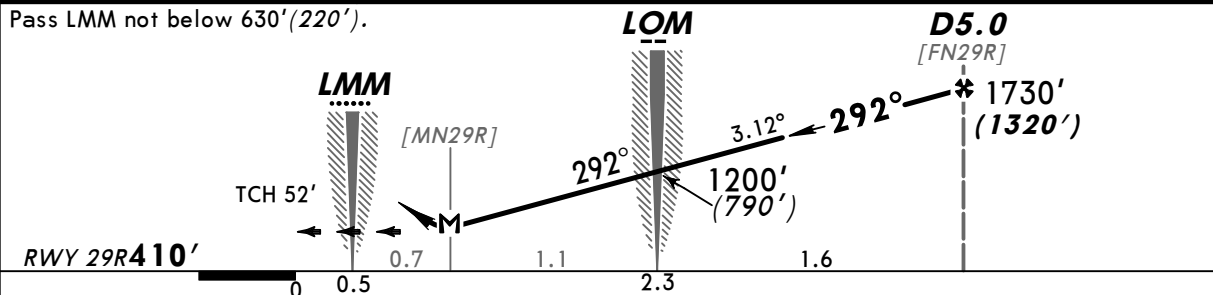
BRIEFING STRIP

ATIS 126.8		KAZAN Radar (APP/R) 119.4		KAZAN Tower 120.3		Ground 121.7
NDB DJ 292	Final Apch Crs 292°	Minimum Alt D5.0 1730' (1320')	MDA(H) 860' (450')	Apt Elev 414'	RWY 410'	2800'
MISSED APCH: Climb on 292° to 1070' (660'), then turn LEFT onto 112° climbing to 2060' (1650'), then according to chart.						MSA KZN VOR
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 60 ① Trans alt: 3370' (2960')						

① FL 50 if pressure is 749 mm (998.6 hPa) or above.
FL 70 if pressure is 721 mm (961.3 hPa) or less.



Pass LMM not below 630' (220').



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II	1070' (660')	on 292°	112°	2060' (1650')
Descent Angle	3.12°	386	497	552	662	773	883	PAPI		LT	
D5.0 to MAP	2.7	2:19	1:48	1:37	1:21	1:09	1:01				

STRAIGHT-IN LANDING RWY 29R

MDA(H) 860' (450')

ALS out

A											
B											
C											
D											

PANS OPS