Page 1
Changed chart(s) since Disc 26-2010
ADD = Added chart, REV = Revised chart, DEL = Deleted chart.

ACT	PROCEDURE IDENT	INDEX	REV DATE	EFF DATE

No revision activity since Disc 26-2010

TERMINAL CHART NOTAMs

Chart NOTAMs for Airport USCC

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

Lndg beyond GS chgd for rwy 09 to 9709'(2959m) and for rwy 27 to 9345'(2848m).

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

IAP charted on 13-1 perm withdrawn.

General Info

Chelyabinsk, RUS
N 55° 18.3' E 61° 30.3' Mag Var: 12.5°E
Elevation: 769'

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

Time Zone Info: GMT+5:00 uses DST

Runway Info

Runway 09-27 10499' x 197' concrete

Runway 09 (91.0°M) TDZE 759'
  Lights: Edge, ALS, Centerline
Runway 27 (271.0°M) TDZE 737'
  Lights: Edge, ALS, Centerline

Communications Info

Chelyabinsk Start Tower **125.2**
Chelyabinsk Approach Control **124.7**
Chelyabinsk Approach Control **124.0** Secondary

Notebook Info

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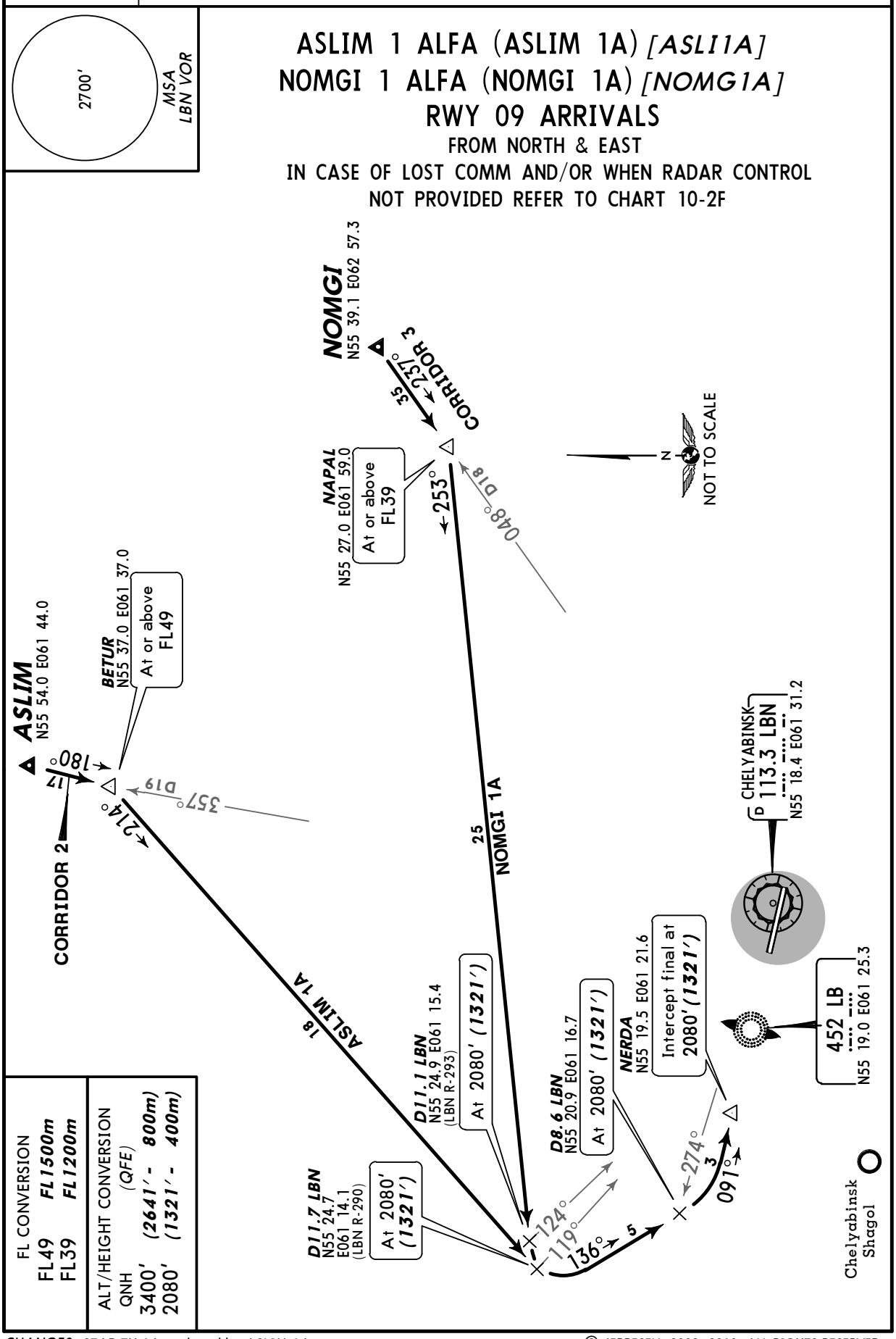
Apt Elev 769′	Alt Set: MM (hPa on request) QNH on request **(QFE)** Trans level: By ATC Trans Alt: 3400′ ***(2641′)*** 1. Do not mistake airport of Chelyabinsk Shagol 7.6 NM southwest of ARP (landing track 120°/300° MAG) for Chelyabinsk Balandino. 2. In case of VORDME approach proceed on STAR route to LBN or request radar vectoring and carry out VORDME approach according chart 13-1. Crossing altitudes by ATC.

ASLIM 1 ALFA (ASLIM 1A) *[ASLI1A]*
NOMGI 1 ALFA (NOMGI 1A) *[NOMG1A]*
RWY 09 ARRIVALS
FROM NORTH & EAST
IN CASE OF LOST COMM AND/OR WHEN RADAR CONTROL NOT PROVIDED REFER TO CHART 10-2F



FL CONVERSION	
FL49	***FL1500m***
FL39	***FL1200m***

ALT/HEIGHT CONVERSION (QFE) QNH	
3400′	***(2641′ - 800m)***
2080′	***(1321′ - 400m)***

CHANGES: STAR TH 1A replaced by ASLIM 1A.

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USCC/CEK BALANDINO

JEPPESEN 20 AUG 10 (10-2A) Eff 26 Aug

CHELYABINSK, RUSSIA

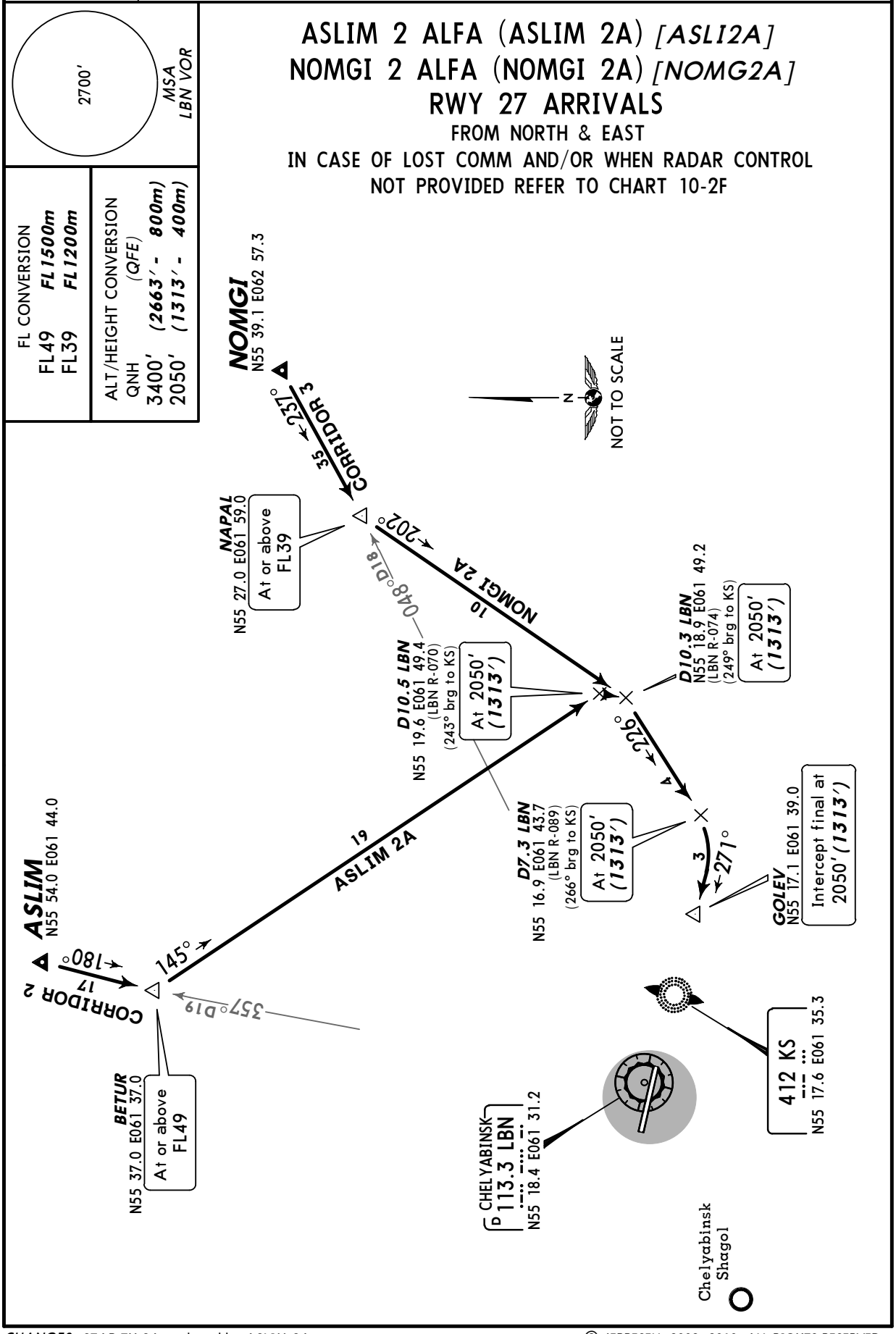
STAR

Apt Elev 769′	Alt Set: MM (hPa on request) QNH on request **(QFE)** Trans level: By ATC Trans Alt: 3400′ ***(2663′)*** 1. Do not mistake airport of Chelyabinsk Shagol 7.6 NM southwest of ARP (landing track 120°/300° MAG) for Chelyabinsk Balandino. 2. In case of VORDME approach proceed on STAR route to LBN or request radar vectoring and carry out VORDME approach according chart 13-2. Crossing altitudes by ATC.

ASLIM 2 ALFA (ASLIM 2A) *[ASLI2A]*
NOMGI 2 ALFA (NOMGI 2A) *[NOMG2A]*
RWY 27 ARRIVALS

FROM NORTH & EAST

IN CASE OF LOST COMM AND/OR WHEN RADAR CONTROL NOT PROVIDED REFER TO CHART 10-2F



CHANGES: STAR TH 2A replaced by ASLIM 2A.

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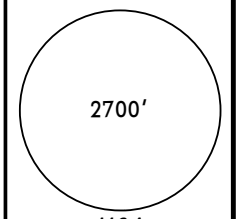
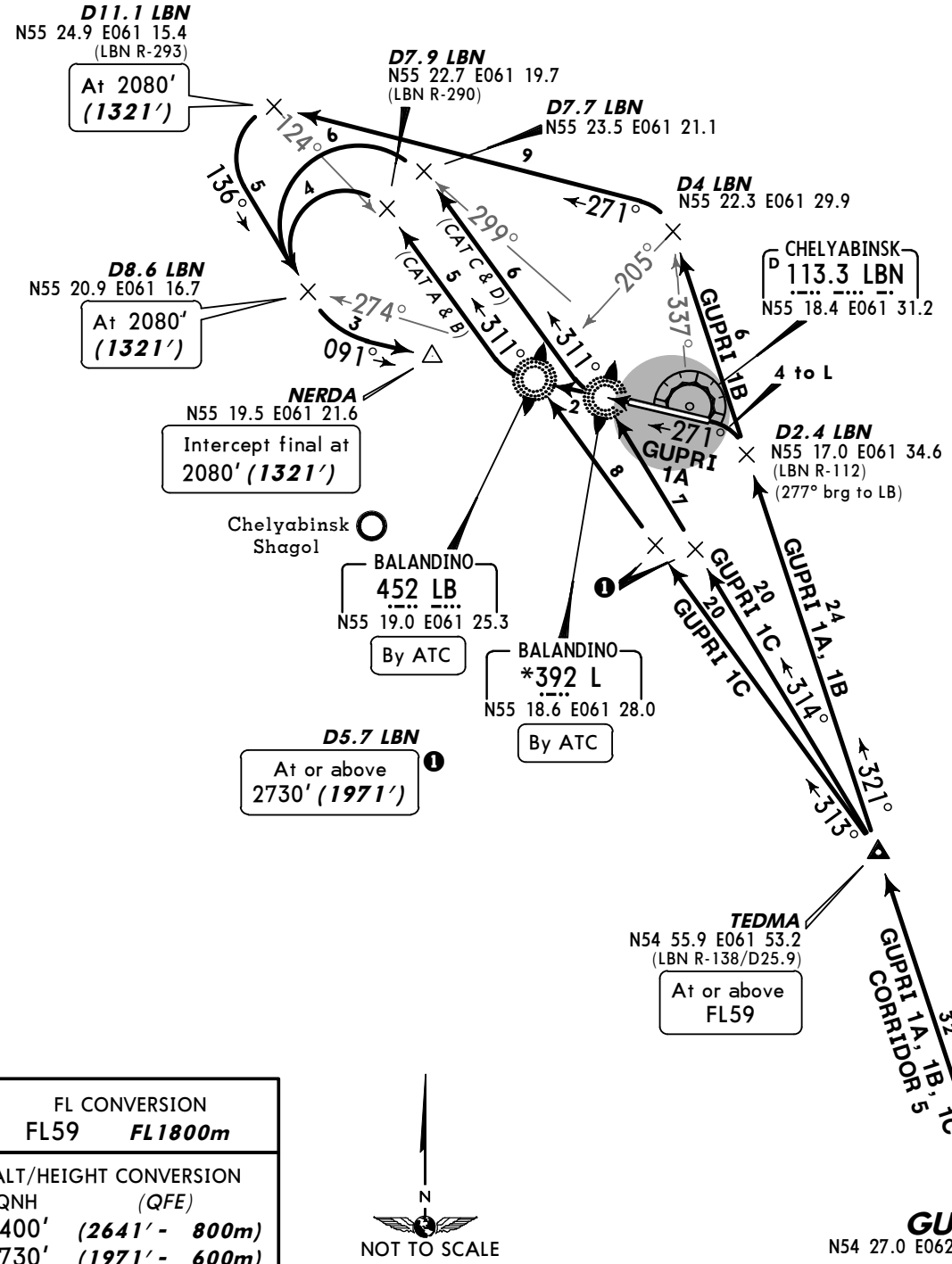
Apt Elev 769′	Alt Set: MM (hPa on request) QNH on request **(QFE)** Trans level: By ATC Trans Alt: 3400′ ***(2641′)*** **1.** Do not mistake airport of Chelyabinsk Shagol 7.6 NM southwest of ARP (landing track 120°/300° MAG) for Chelyabinsk Balandino. **2.** In case of VORDME approach proceed on STAR route to LBN or request radar vectoring and carry out VORDME approach according chart 13-1. Crossing altitudes by ATC.

GUPRI 1 ALFA (GUPRI 1A) *[GUPR1A]*
GUPRI 1 BRAVO (GUPRI 1B) *[GUPR1B]*
GUPRI 1 CHARLIE (GUPRI 1C) *[GUPR1C]*
RWY 09 ARRIVALS
FROM SOUTH
IN CASE OF LOST COMM AND/OR WHEN RADAR CONTROL NOT PROVIDED REFER TO CHART 10-2F





FL CONVERSION	
FL59	***FL1800m***

ALT/HEIGHT CONVERSION	
QNH	*(QFE)*
3400′	***(2641′ - 800m)***
2730′	***(1971′ - 600m)***
2080′	***(1321′ - 400m)***

CHANGES: WW STARs renamed GUPRI; STARs transferred.

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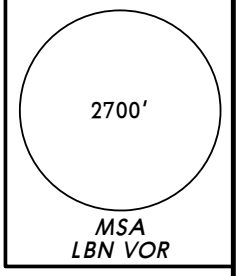
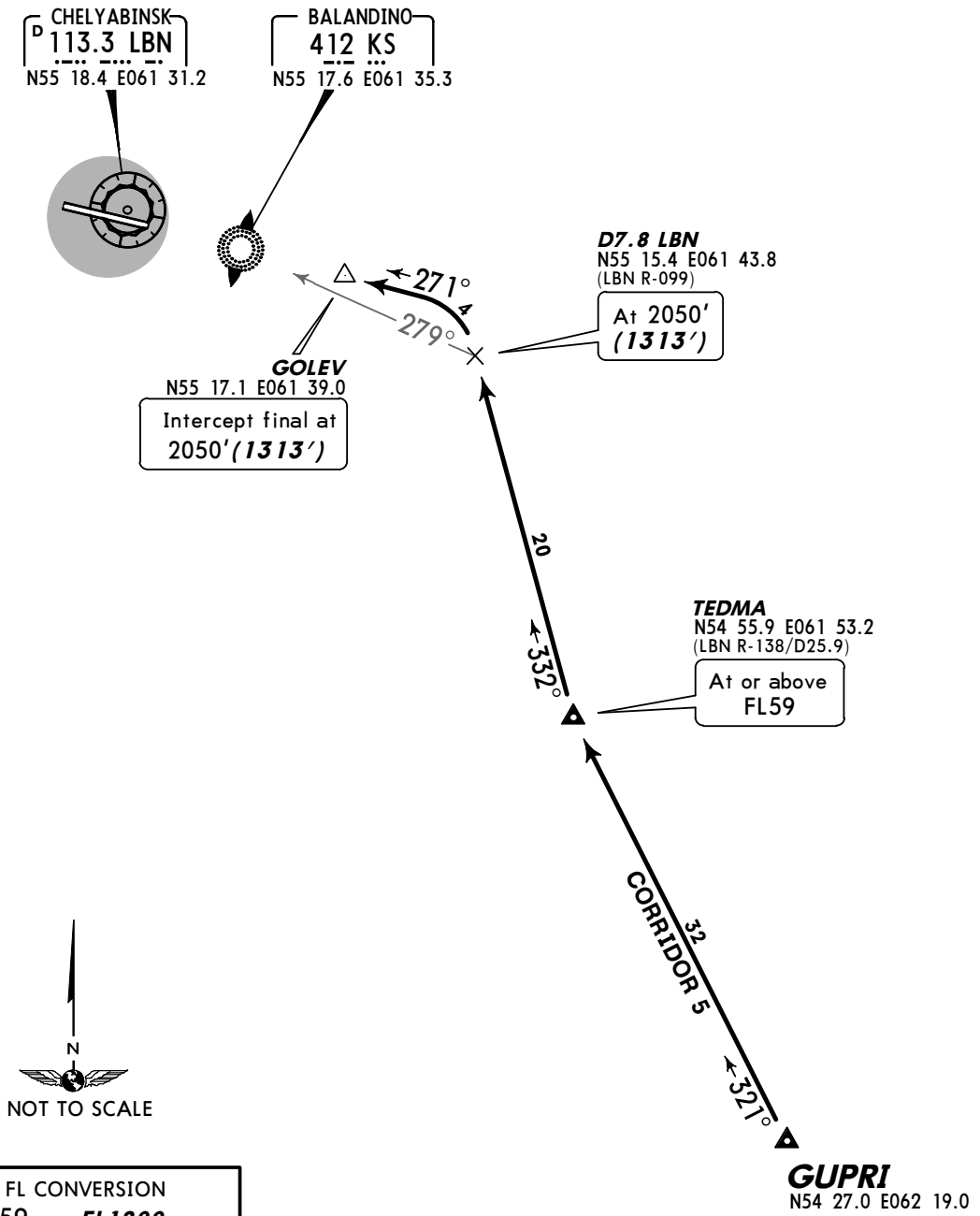
Apt Elev 769′	Alt Set: MM (hPa on request) QNH on request **(QFE)** Trans level: By ATC Trans Alt: 3400′ ***(2663′)*** **1.** Do not mistake airport of Chelyabinsk Shagol 7.6 NM southwest of ARP (landing track 120°/300° MAG) for Chelyabinsk Balandino. **2.** In case of VORDME approach proceed on STAR route to LBN or request radar vectoring and carry out VORDME approach according chart 13-2. Crossing altitudes by ATC.

GUPRI 2 ALFA (GUPRI 2A) *[GUPR2A]*
RWY 27 ARRIVAL
FROM SOUTH
IN CASE OF LOST COMM AND/OR WHEN RADAR CONTROL NOT PROVIDED REFER TO CHART 10-2F





FL CONVERSION	
FL59	***FL1800m***

ALT/HEIGHT CONVERSION	
QNH	*(QFE)*
3400′	***(2663′ - 800m)***
2050′	***(1313′ - 400m)***

CHANGES: STAR WW 2A renamed GUPRI 2A; STARs transferred.

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USCC/CEK
BALANDINO

JEPPESEN
14 SEP 07 (10-2D)

CHELYABINSK, RUSSIA

STAR

Apt Elev
769'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: By ATC Trans Alt: 3400' *(2641')*

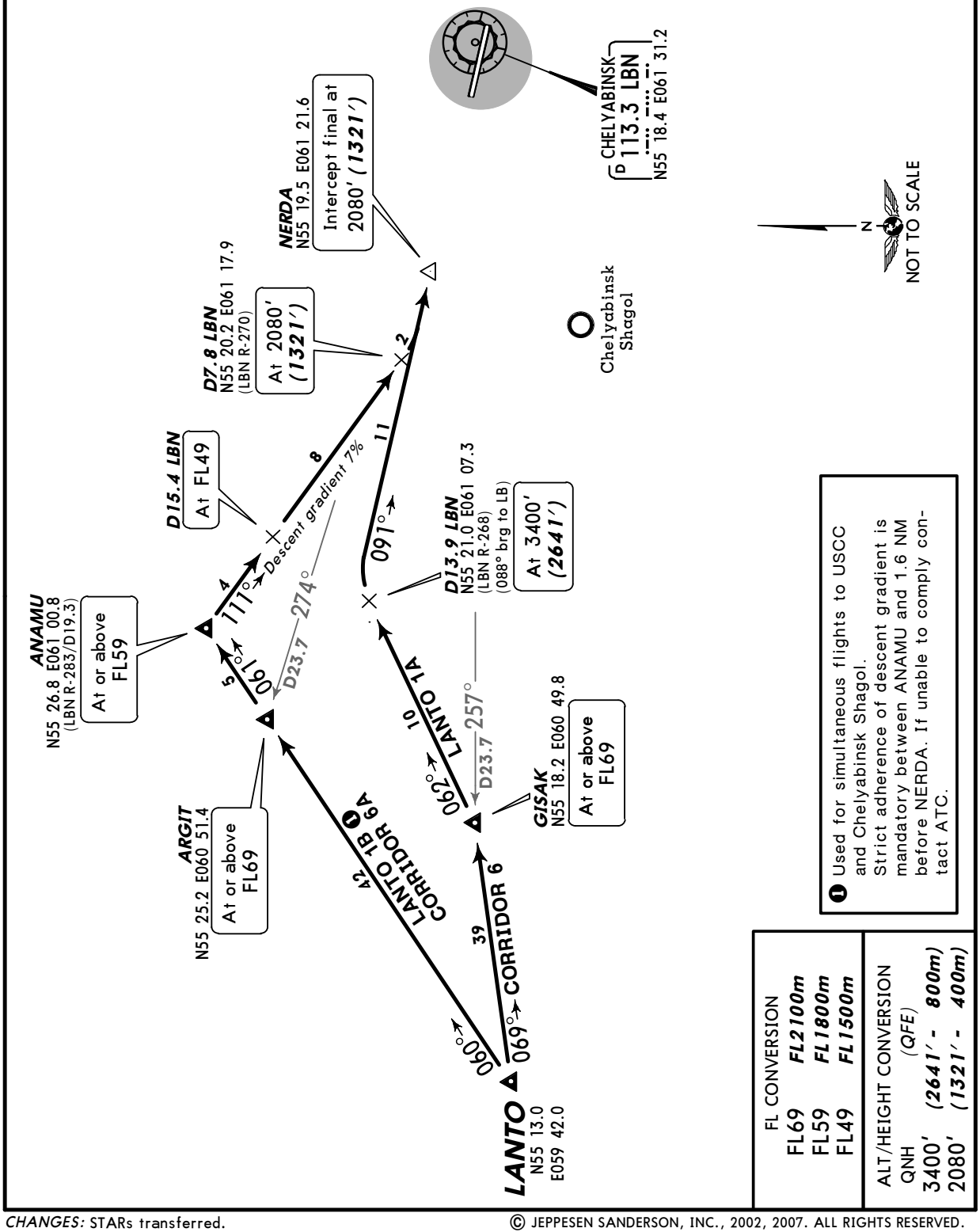
1. Do not mistake airport of Chelyabinsk Shagol 7.6 NM southwest of ARP (landing track 120°/300° MAG) for Chelyabinsk Balandino.
2. In case of VORDME approach proceed on STAR route to LBN or request radar vectoring and carry out VORDME approach according chart 13-1. Crossing altitudes by ATC.

MSA LBN VOR
2700'

LANTO 1 ALFA (LANTO 1A) *[LANT1A]*
LANTO 1 BRAVO (LANTO 1B) *[LANT1B]*
RWY 09 ARRIVALS

FROM WEST

IN CASE OF LOST COMM AND/OR WHEN RADAR CONTROL NOT PROVIDED REFER TO CHART 10-2F



FL CONVERSION	
FL69	*FL2100m*
FL59	*FL1800m*
FL49	*FL1500m*

ALT/HEIGHT CONVERSION (QFE)	
QNH	
3400'	*(2641' - 800m)*
2080'	*(1321' - 400m)*

CHANGES: STARs transferred.

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USCC/CEK
BALANDINO

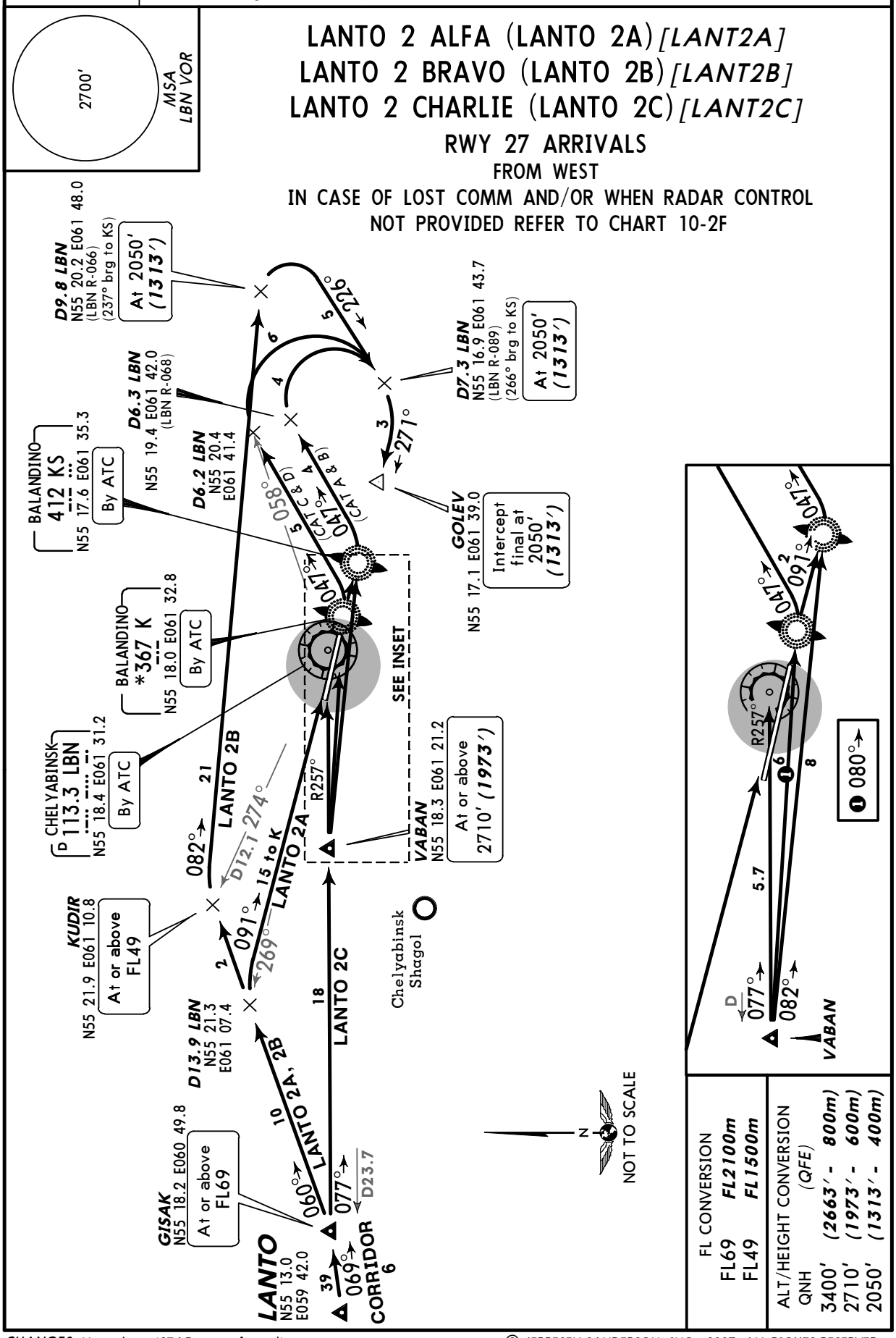
JEPPESEN
14 SEP 07 (10-2E)

CHELYABINSK, RUSSIA
STAR

Apt Elev
769′

Alt Set: MM (hPa on request) QNH on request **(QFE)**
Trans level: By ATC Trans Alt: 3400′ ***(2663′)***

1. Do not mistake airport of Chelyabinsk Shagol 7.6 NM southwest of ARP (landing track 120°/300° MAG) for Chelyabinsk Balandino.
2. In case of VORDME approach proceed on STAR route to LBN or request radar vectoring and carry out VORDME approach according chart 13-2. Crossing altitudes by ATC.



CHANGES: New chart (STARs transferred).

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USCC/CEK BALANDINO

JEPPESEN 20 AUG 10 (10-2F) Eff 26 Aug

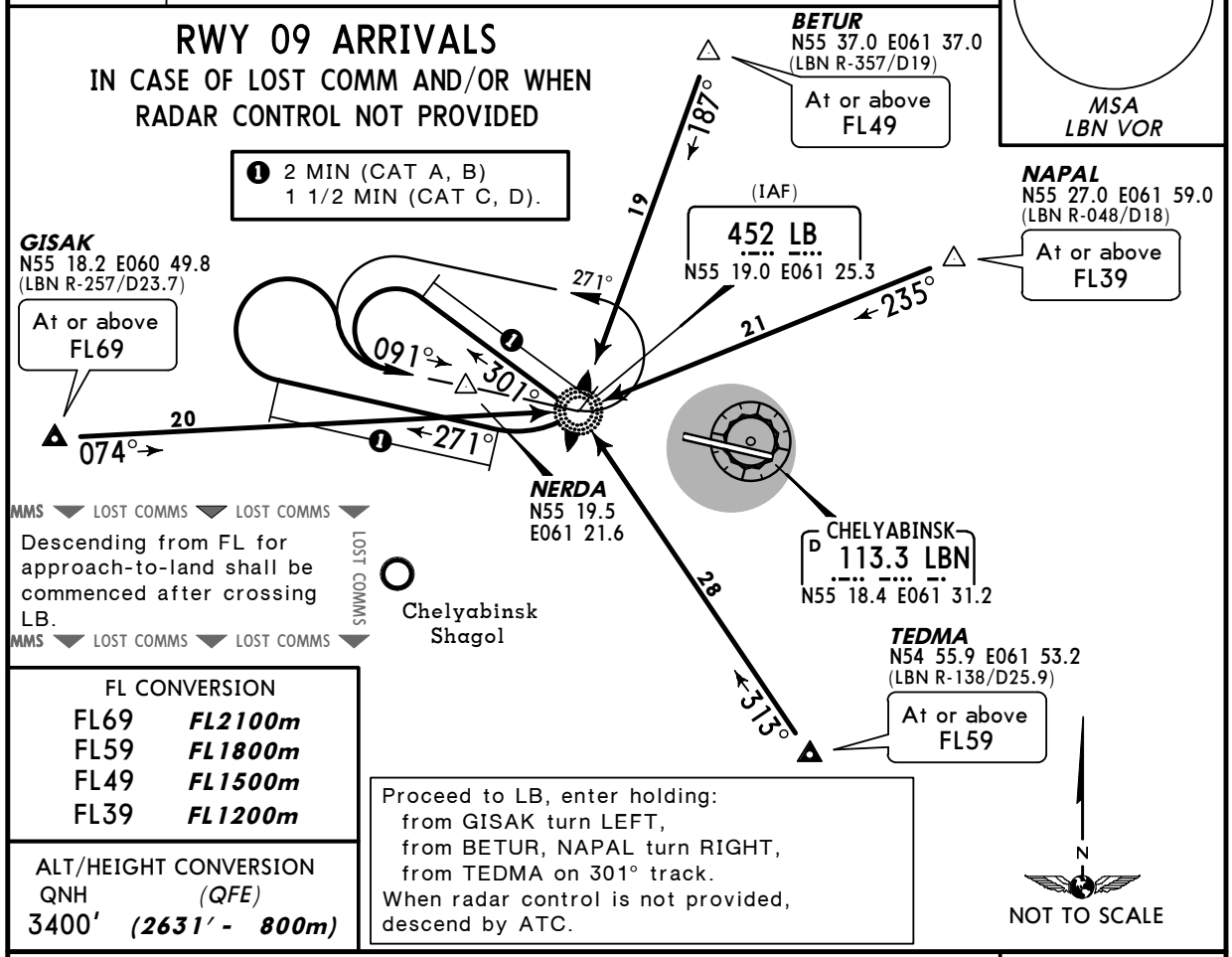
CHELYABINSK, RUSSIA

STAR

Apt Elev 769′	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: By ATC Trans Alt: 3400′ *(2631′)* Do not mistake airport of Chelyabinsk Shagol 7.6 NM southwest of ARP (landing track 120°/300° MAG) for Chelyabinsk Balandino.

RWY 09 ARRIVALS

IN CASE OF LOST COMM AND/OR WHEN RADAR CONTROL NOT PROVIDED



❶ 2 MIN (CAT A, B)
1 1/2 MIN (CAT C, D).

MMS ▼ LOST COMMS ▼ LOST COMMS ▼
Descending from FL for approach-to-land shall be commenced after crossing LB.
LOST COMMS
MMS ▼ LOST COMMS ▼ LOST COMMS ▼

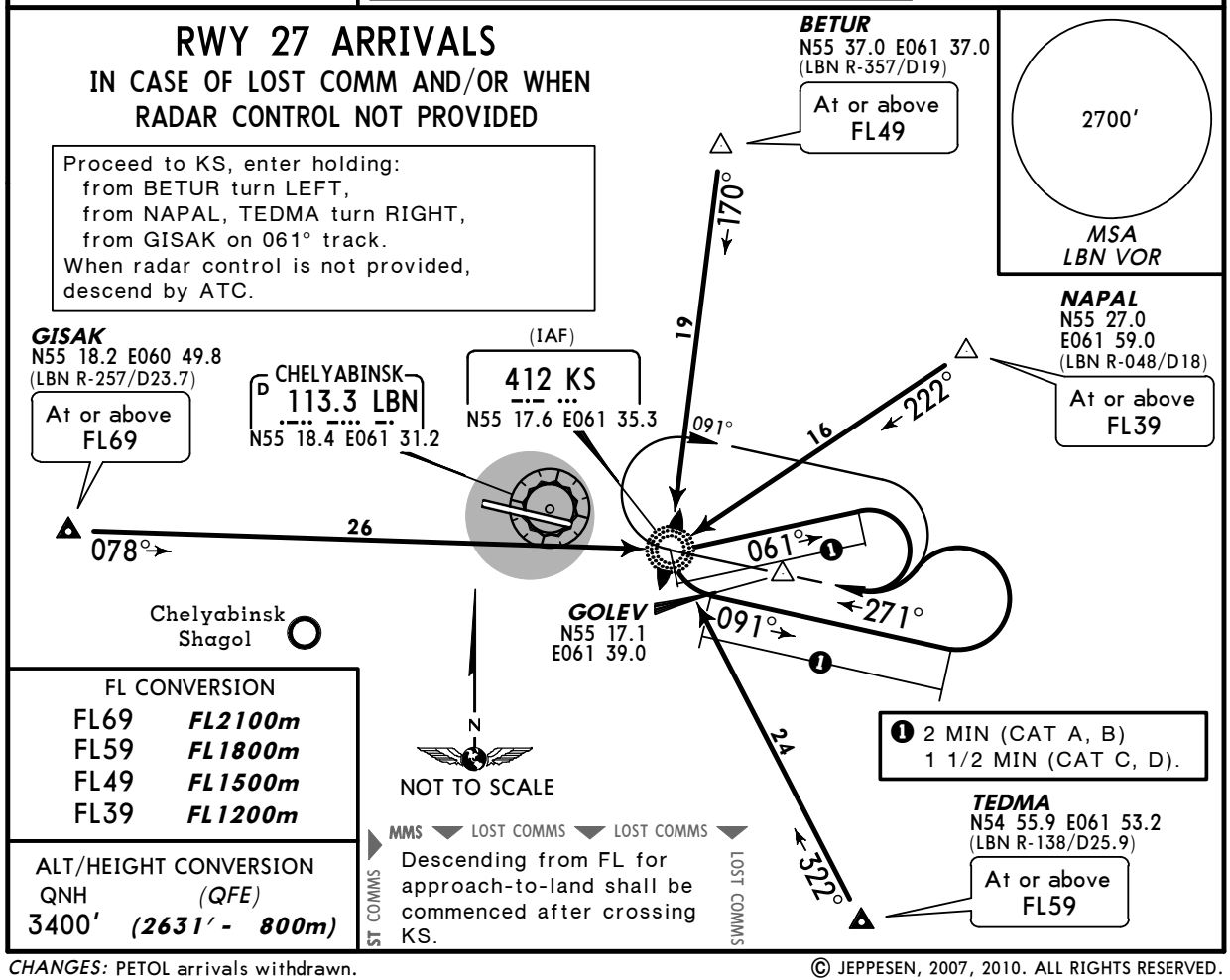
FL CONVERSION	
FL69	*FL2100m*
FL59	*FL1800m*
FL49	*FL1500m*
FL39	*FL1200m*

ALT/HEIGHT CONVERSION	
QNH	*(QFE)*
3400′	*(2631′ - 800m)*

Proceed to LB, enter holding:
from GISAK turn LEFT,
from BETUR, NAPAL turn RIGHT,
from TEDMA on 301° track.
When radar control is not provided, descend by ATC.

RWY 27 ARRIVALS

IN CASE OF LOST COMM AND/OR WHEN RADAR CONTROL NOT PROVIDED



Proceed to KS, enter holding:
from BETUR turn LEFT,
from NAPAL, TEDMA turn RIGHT,
from GISAK on 061° track.
When radar control is not provided, descend by ATC.

FL CONVERSION	
FL69	*FL2100m*
FL59	*FL1800m*
FL49	*FL1500m*
FL39	*FL1200m*

ALT/HEIGHT CONVERSION	
QNH	*(QFE)*
3400′	*(2631′ - 800m)*

❶ 2 MIN (CAT A, B)
1 1/2 MIN (CAT C, D).

MMS ▼ LOST COMMS ▼ LOST COMMS ▼
Descending from FL for approach-to-land shall be commenced after crossing KS.
LOST COMMS
MMS ▼ LOST COMMS ▼ LOST COMMS ▼

CHANGES: PETOL arrivals withdrawn.

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USCC/CEK
BALANDINO

JEPPESEN

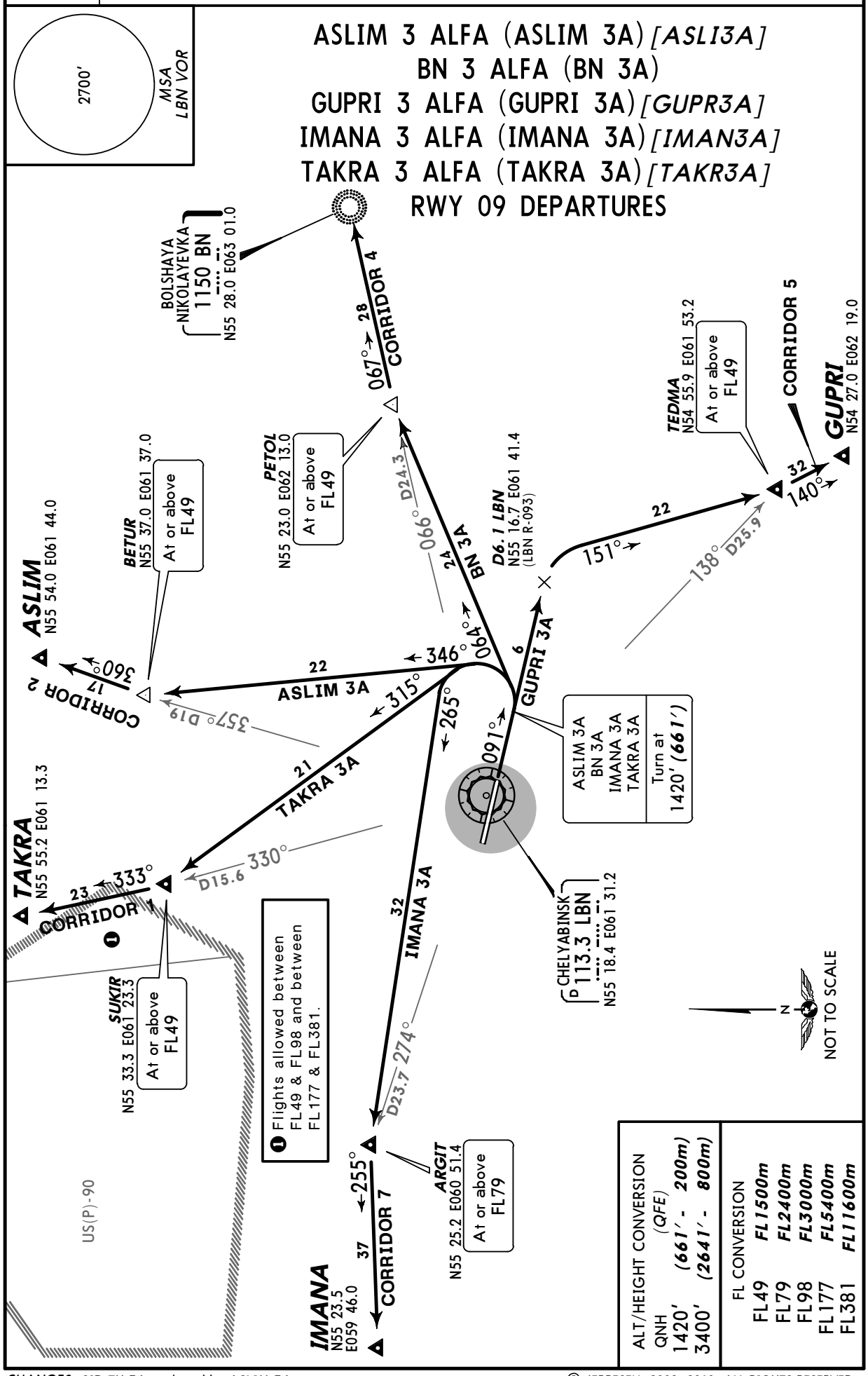
20 AUG 10 (10-3) Eff 26 Aug

CHELYABINSK, RUSSIA

SID

Apt Elev 769′	QNH on request **(QFE)** Trans level: By ATC Trans alt: 3400′ ***(2641′)***

ASLIM 3 ALFA (ASLIM 3A) *[ASLI3A]*
BN 3 ALFA (BN 3A)
GUPRI 3 ALFA (GUPRI 3A) *[GUPR3A]*
IMANA 3 ALFA (IMANA 3A) *[IMAN3A]*
TAKRA 3 ALFA (TAKRA 3A) *[TAKR3A]*
RWY 09 DEPARTURES



CHANGES: SID TH 3A replaced by ASLIM 3A.

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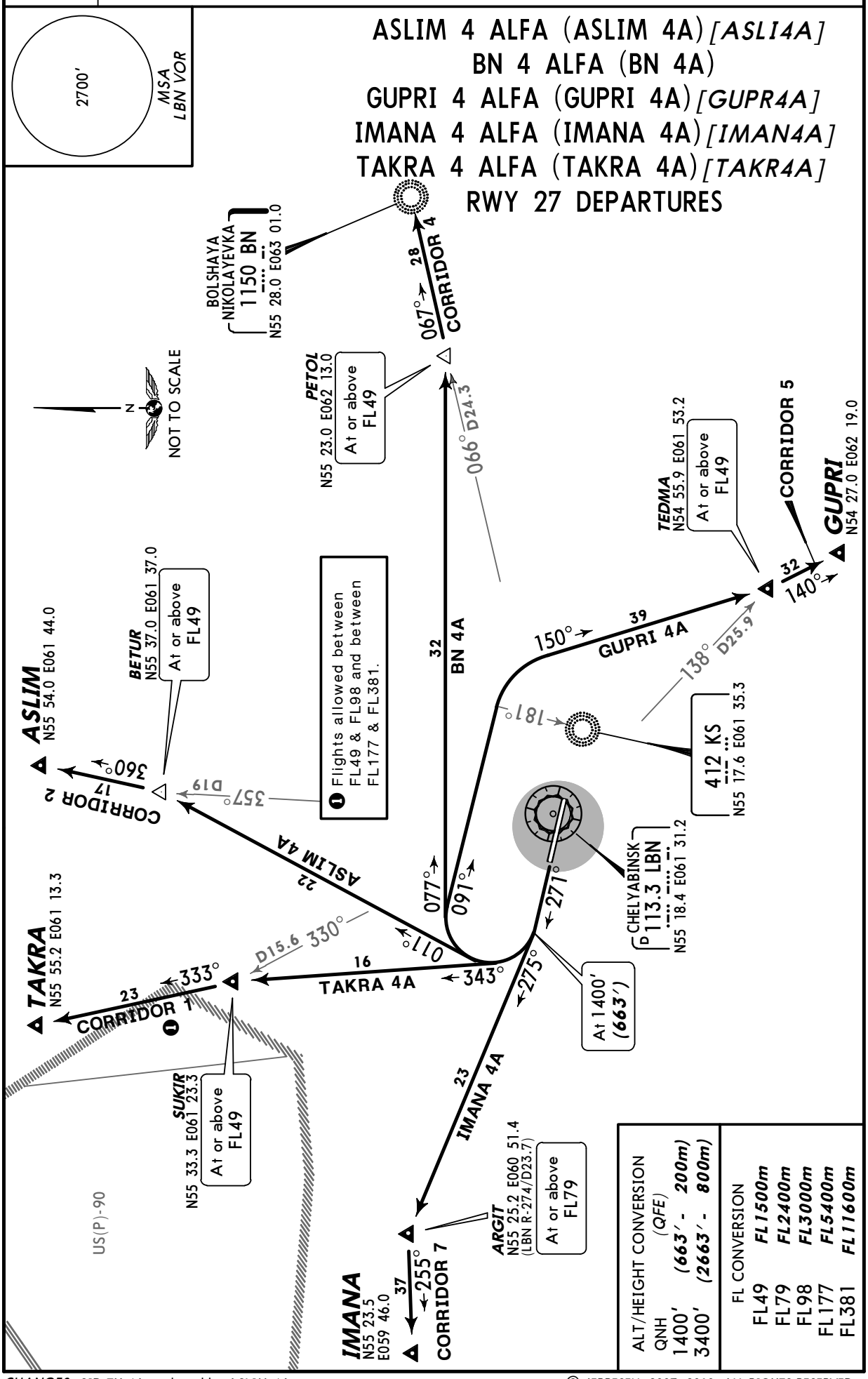
USCC/CEK
BALANDINO

JEPPESEN 20 AUG 10 (10-3A) Eff 26 Aug

CHELYABINSK, RUSSIA
SID

Apt Elev 769′	QNH on request **(QFE)** Trans level: By ATC Trans alt: 3400′ *(2663′)*

ASLIM 4 ALFA (ASLIM 4A) *[ASLI4A]*
BN 4 ALFA (BN 4A)
GUPRI 4 ALFA (GUPRI 4A) *[GUPR4A]*
IMANA 4 ALFA (IMANA 4A) *[IMAN4A]*
TAKRA 4 ALFA (TAKRA 4A) *[TAKR4A]*
RWY 27 DEPARTURES



ALT/HEIGHT CONVERSION (QFE) QNH		
1400′	(663′ -	200m)
3400′	(2663′ -	800m)

FL CONVERSION	
FL49	FL1500m
FL79	FL2400m
FL98	FL3000m
FL177	FL5400m
FL381	FL11600m

CHANGES: SID TH 4A replaced by ASLIM 4A.

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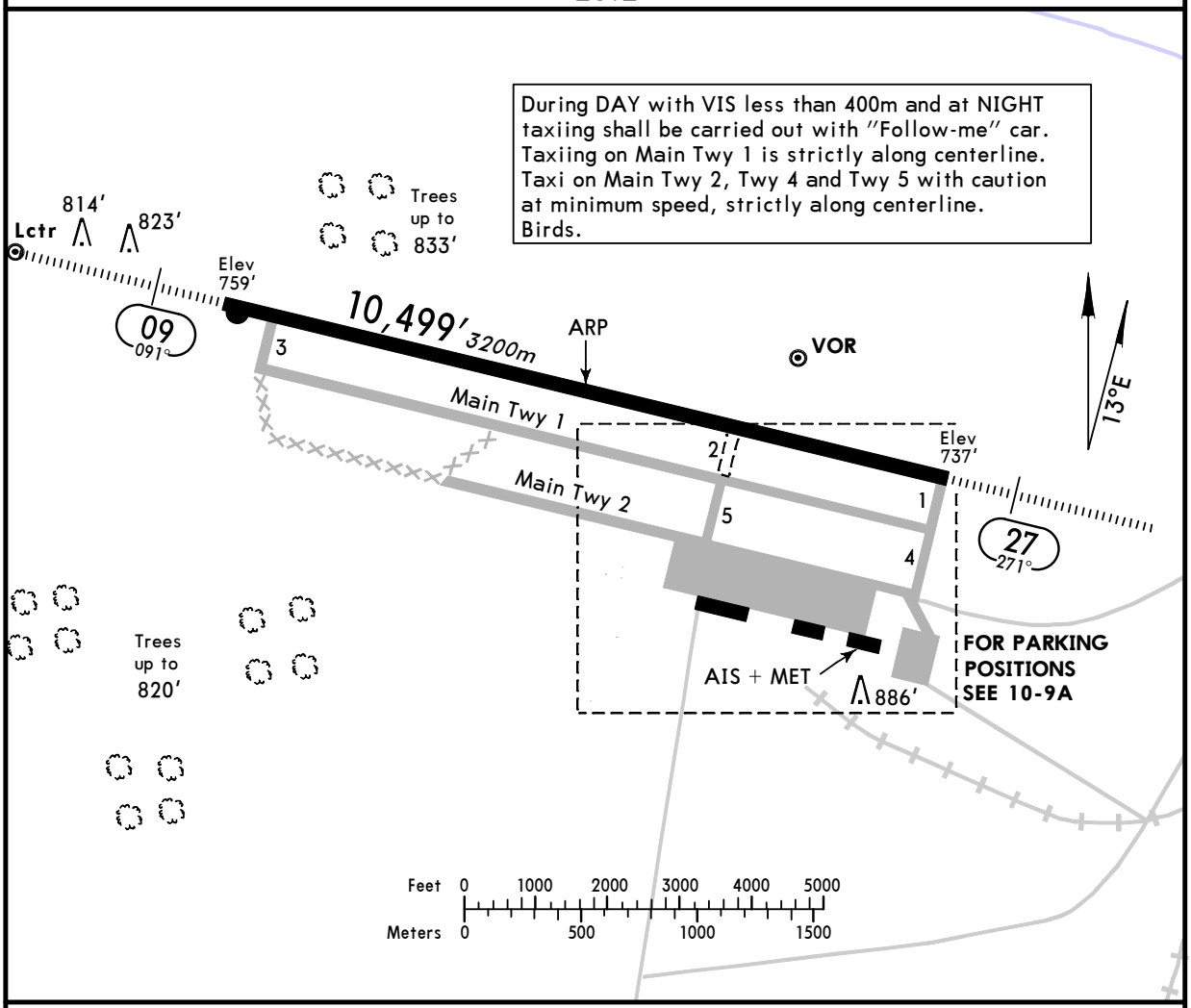
USCC/CEK

Apt Elev **769′**
N55 18.3 E061 30.3

JEPPESEN
5 OCT 07 (10-9)

CHELYABINSK, RUSSIA
BALANDINO

CHELYABINSK Start (GND/TWR)
125.2



ADDITIONAL RUNWAY INFORMATION

RWY		USABLE LENGTHS LANDING BEYOND Threshold	Glide Slope	TAKE-OFF	WIDTH
09 27	HIRL *(60m)* CL *(15m)* HIALS PAPI-L(angle 2.83°)		9596′ *2925m*	❶	197′ *60m*

❶ TAKE-OFF RUN AVAILABLE
RWY 09:
From rwy head 10,499′(3200m)
twy 3 int 9803′(2988m)

TAKE-OFF

AIR CARRIER (JAA)
All Rwys

LVP must be in force

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

CHANGES: Notes. Lights.

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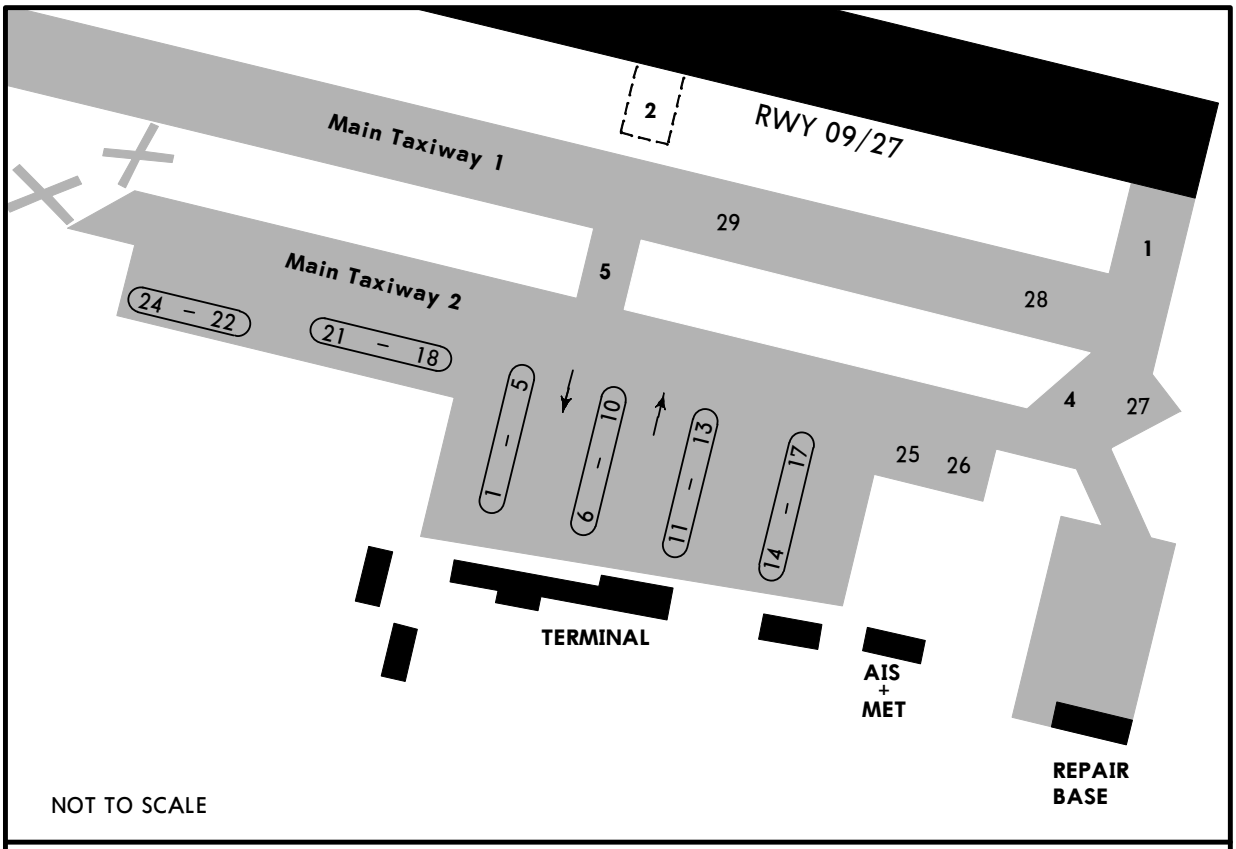
USCC/CEK

JEPPESEN

5 OCT 07 10-9A

CHELYABINSK, RUSSIA
BALANDINO



Parking stands 1 thru 5, 7 thru 17, 27 and Main Twy 2 between Twy 4 and Twy 5 available for helicopters.

CHANGES: Apron layout. Notes.

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USCC/CEK

JEPPESEN
13 AUG 10 (10-9S)

Standard

CHELYABINSK, RUSSIA
BALANDINO

STRAIGHT-IN RWY		A	B	C	D
09	ILS	**959′**(200′)	**959′**(200′)	**959′**(200′)	**959′**(200′)
	FULL	**R550m**	**R550m**	**R550m**	**R550m**
	Limited	R750m	R750m	R750m	R750m
	ALS out	R1200m	R1200m	R1200m	R1200m
	LOC	NOT AUTHORIZED	NOT AUTHORIZED	NOT AUTHORIZED	NOT AUTHORIZED
	VOR ❶	**1150′**(391′)	**1150′**(391′)	**1150′**(391′)	**1150′**(391′)
		R1100m	**R1100m**	**R1100m**	**R1100m**
	ALS out	R1500m	R1500m	R1800m	R1800m
	2 NDB ❶❷	**1110′**(351′)	**1110′**(351′)	**1110′**(351′)	**1110′**(351′)
		R900m	**R900m**	**R900m**	**R900m**
	ALS out	R1500m	R1500m	R1600m	R1600m
	2 NDB ❶❸	**1110′**(351′)	**1110′**(351′)	**1110′**(351′)	**1110′**(351′)
		R1000m	**R1000m**	**R1200m**	**R1200m**
	ALS out	R1600m	R1600m	R1600m	R1600m
	LB NDB ❶	**1210′**(451′)	**1210′**(451′)	**1210′**(451′)	**1210′**(451′)
		R1400m	**R1400m**	**R1400m**	**R1400m**
	ALS out	C2100m	C2100m	C2100m	C2100m
	L Lctr	**1210′**(451′)	**1210′**(451′)	**1210′**(451′)	**1210′**(451′)
		R1600m	**R1600m**	**R1800m**	**R1800m**
	ALS out	C2300m	C2300m	C2500m	C2500m
27	ILS	**937′**(200′)	**937′**(200′)	**937′**(200′)	**937′**(200′)
	FULL	**R550m**	**R550m**	**R550m**	**R550m**
	Limited	R750m	R750m	R750m	R750m
	ALS out	R1200m	R1200m	R1200m	R1200m
	LOC	NOT AUTHORIZED	NOT AUTHORIZED	NOT AUTHORIZED	NOT AUTHORIZED
	VOR ❶	**1140′**(403′)	**1140′**(403′)	**1140′**(403′)	**1140′**(403′)
		R1200m	**R1200m**	**R1200m**	**R1200m**
	ALS out	R1900m	R1900m	R1900m	R1900m
	2 NDB ❶❷	**1140′**(403′)	**1140′**(403′)	**1140′**(403′)	**1140′**(403′)
		R1200m	**R1200m**	**R1200m**	**R1200m**
	ALS out	R1500m	R1500m	R1900m	R1900m
	2 NDB ❶❸	**1140′**(403′)	**1140′**(403′)	**1140′**(403′)	**1140′**(403′)
		R1200m	**R1200m**	**R1200m**	**R1200m**
	ALS out	R1900m	R1900m	R1900m	R1900m
	KS NDB ❶❷	**1140′**(403′)	**1140′**(403′)	**1140′**(403′)	**1140′**(403′)
		R1200m	**R1200m**	**R1200m**	**R1200m**
	ALS out	R1500m	R1500m	R1900m	R1900m
	KS NDB ❶❸	**1140′**(403′)	**1140′**(403′)	**1140′**(403′)	**1140′**(403′)
		R1200m	**R1200m**	**R1200m**	**R1200m**
	ALS out	R1900m	R1900m	R1900m	R1900m
	K Lctr ❶❷	**1140′**(403′)	**1140′**(403′)	**1140′**(403′)	**1140′**(403′)
		R1200m	**R1200m**	**R1200m**	**R1200m**
	ALS out	R1500m	R1500m	R1900m	R1900m
	K Lctr ❸	**1140′**(403′)	**1140′**(403′)	**1140′**(403′)	**1140′**(403′)
		R1400m	**R1400m**	**R1600m**	**R1600m**
	ALS out	C2100m	C2100m	C2300m	C2300m

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

CHANGES: New page.

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TAKE-OFF RWY 09, 27

	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	500m
B						
C						
D	150m	200m	250m	300m		

CHANGES: New page.

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USCC/CEK

JEPPESEN

JAA MINIMUMS

26 MAY 06 (10-9X) Eff 8 Jun

CHELYABINSK, RUSSIA
BALANDINO

STRAIGHT-IN RWY		A	B	C	D
09	ILS	**959**′(200′)	**959**′(200′)	**959**′(200′)	**959**′(200′)
		R550m	**R550m**	**R550m**	**R550m**
	ALS out	R1000m	R1000m	R1000m	R1000m
	LOC	NOT AUTHORIZED			
	VOR	**1150**′(391′)	**1150**′(391′)	**1150**′(391′)	**1150**′(391′)
		R900m	**R1000m**	**R1000m**	**R1400m**
	ALS out	R1500m	R1500m	R1800m	R2000m
	2 NDB	**1110**′(351′)	**1110**′(351′)	**1110**′(351′)	**1110**′(351′)
		R900m	**R1000m**	**R1000m**	**R1400m**
	ALS out	R1500m	R1500m	R1800m	R2000m
	NDB	**1210**′(451′)	**1210**′(451′)	**1210**′(451′)	**1210**′(451′)
		R1000m	**R1200m**	**R1200m**	**R1600m**
	ALS out	R1500m	R1500m	R2000m	R2000m
27	ILS	**937**′(200′)	**937**′(200′)	**937**′(200′)	**937**′(200′)
		R550m	**R550m**	**R550m**	**R550m**
	ALS out	R1000m	R1000m	R1000m	R1000m
	LOC	NOT AUTHORIZED			
	VOR	**1140**′(403′)	**1140**′(403′)	**1140**′(403′)	**1140**′(403′)
		R900m	**R1000m**	**R1000m**	**R1400m**
	ALS out	R1500m	R1500m	R1800m	R2000m
	NDB	**1140**′(403′)	**1140**′(403′)	**1140**′(403′)	**1140**′(403′)
		R900m	**R1000m**	**R1000m**	**R1400m**
	ALS out	R1500m	R1500m	R1800m	R2000m

TAKE-OFF RWY 09, 27

	LVP must be in Force			
	RL & CL	RCLM (DAY only) or RL	RCLM (DAY only) or RL	NIL (DAY only)
A, B, C	*200m*	*250m*	*400m*	*500m*
D	*250m*	*300m*		

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USCC/CEK BALANDINO

JEPPESEN 1 FEB 08 (11-1) Eff 14 Feb

CHELYABINSK, RUSSIA ILS Rwy 09

BRIEFING STRIP ™

CHELYABINSK Approach (APP/SRE)	CHELYABINSK Start (TWR)	Ground
124.7	125.2	125.2

LOC ILB	Final Apch Crs	GS LOM	ILS DA(H)	Apt Elev 769'
109.9	091°	1415'(656')	959'(200')	RWY 759'

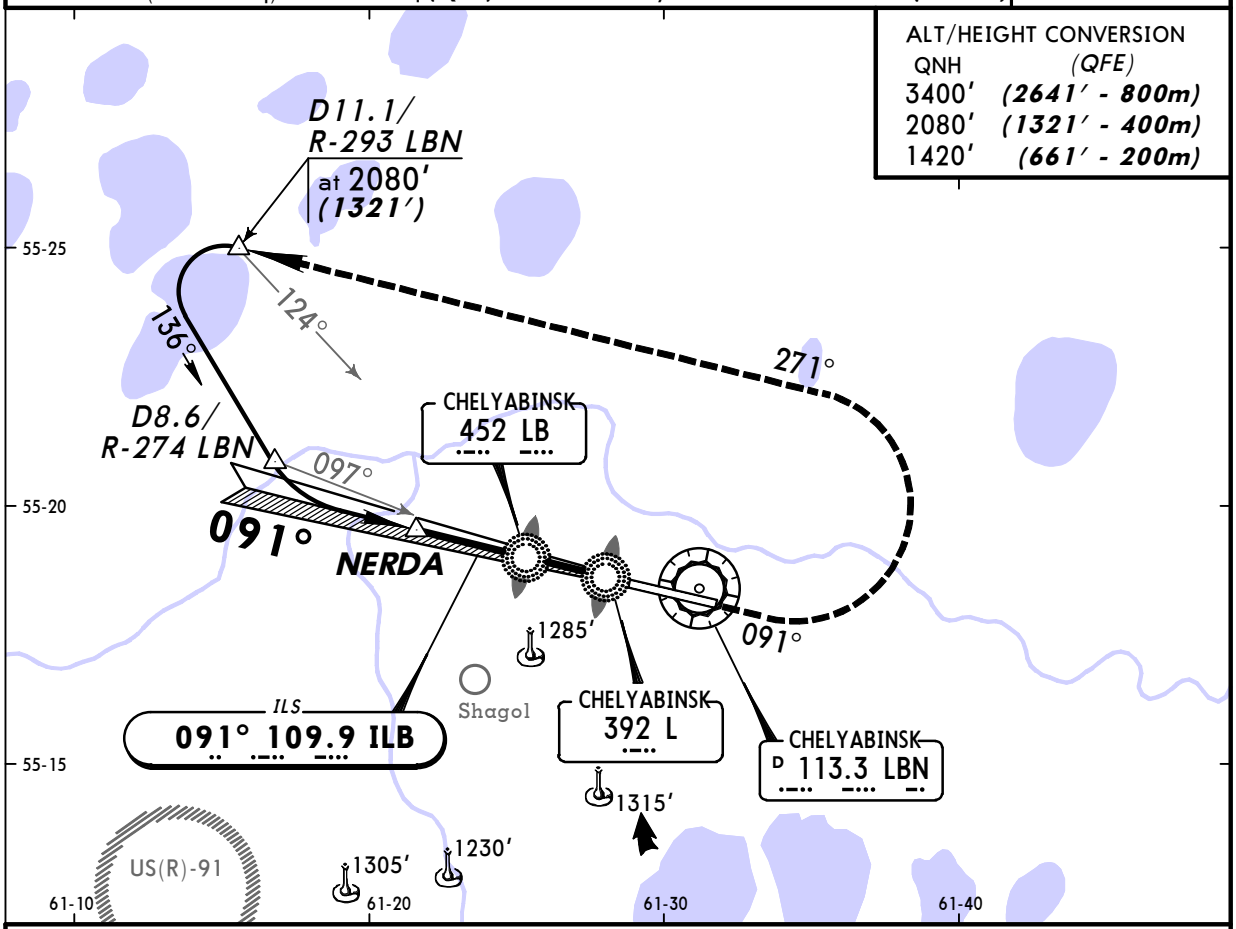
MISSED APCH: Climb on 091° to 1420'(661'), then turn LEFT onto 271° climbing to 2080'(1321'), then according to chart.

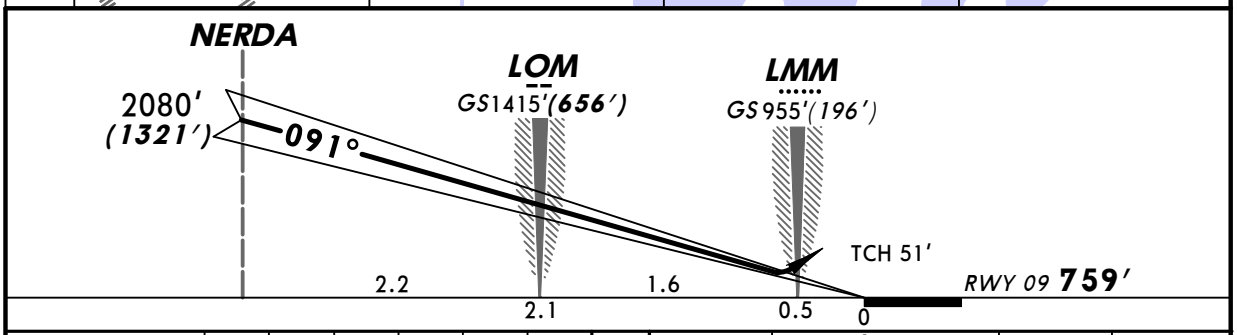
Alt Set: MM(hPa on req) QNH on req (**QFE**) Trans level: By ATC Trans alt: 3400'(2641')

2700'
MSA LBN VOR

ALT/HEIGHT CONVERSION

QNH	(QFE)
3400'	(2641' - 800m)
2080'	(1321' - 400m)
1420'	(661' - 200m)





Gnd speed-Kts		70	90	100	120	140	160
GS	2.83°	356	457	508	610	711	813

HIALS
PAPI

1420' (661') on 091°

271° LT

2080' (1321')

STRAIGHT-IN LANDING RWY 09

ILS DA(H) 959'(200') FULL	ILS DA(H) 959'(200') ALS out	LOC (GS out)
800m	1200m	NOT AUTHORIZED

PANS OPS: A, B, C, D

CHANGES: Procedure.

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USCC/CEK BALANDINO

JEPPESEN 1 FEB 08 (11-2) Eff 14 Feb

CHELYABINSK, RUSSIA ILS Rwy 27

BRIEFING STRIP ™

CHELYABINSK Approach (APP/SRE)	CHELYABINSK Start (TWR)	Ground
124.7	125.2	125.2

LOC IKS	Final Apch Crs	GS LOM	ILS DA(H)	Apt Elev 769'
108.7	271°	1393'(656')	937'(200')	RWY 737'

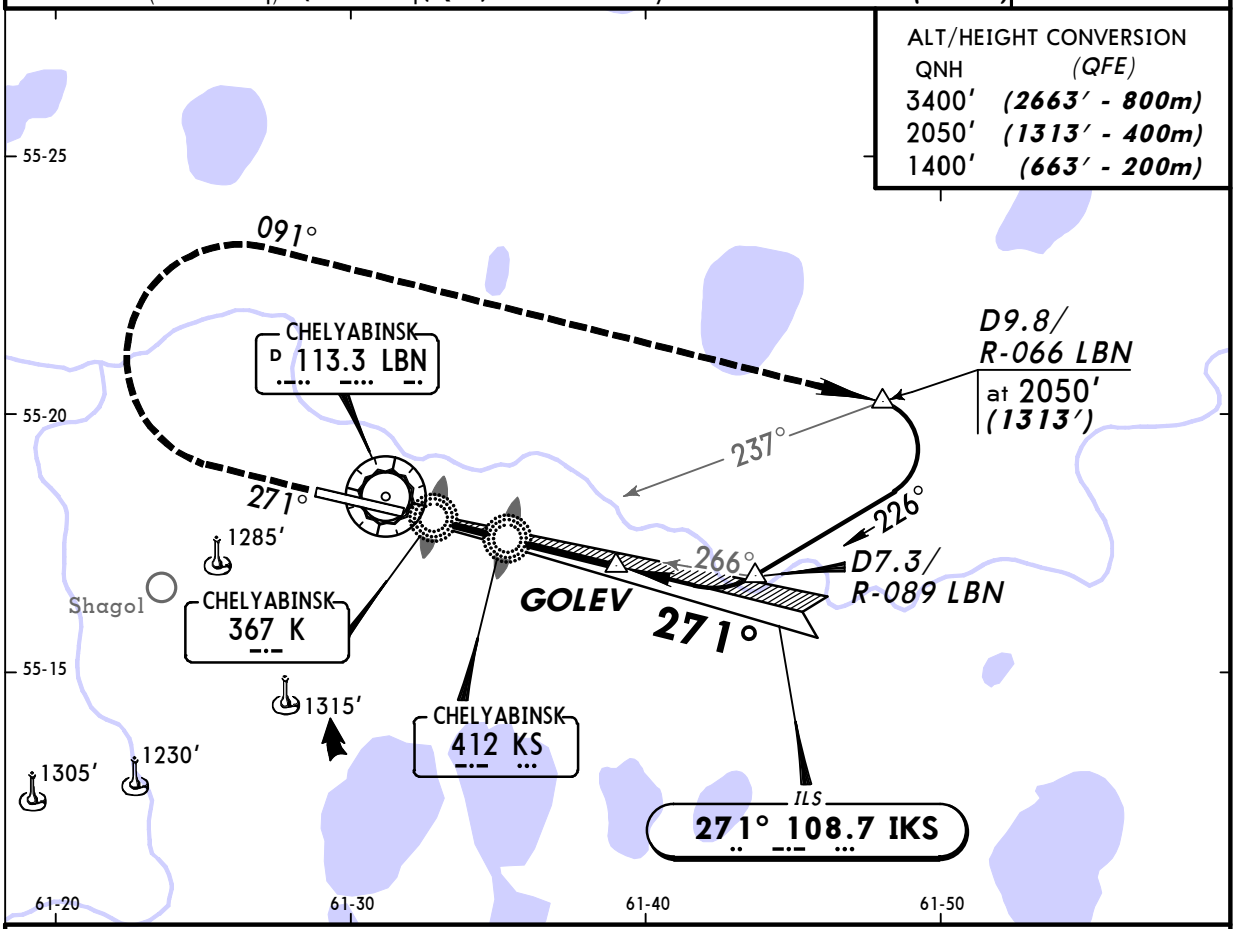
MISSED APCH: Climb on 271° to 1400'(663'), then turn RIGHT onto 091° climbing to 2050'(1313'), then according to chart.

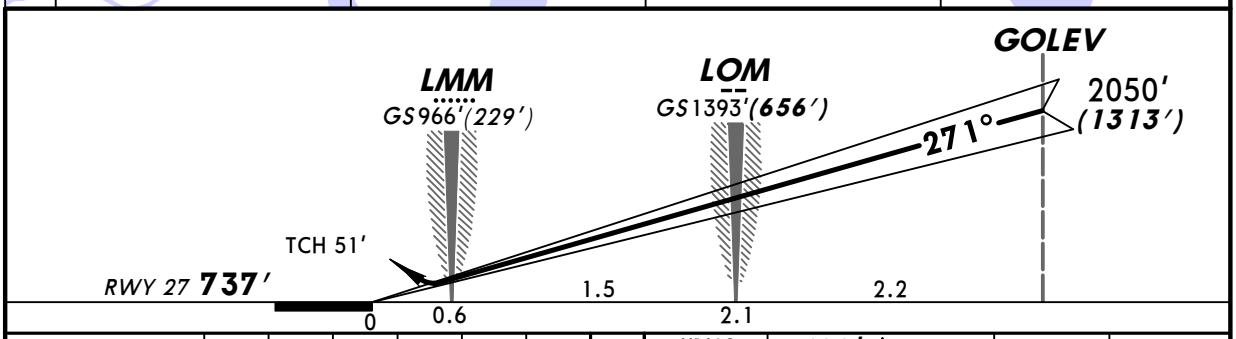
Alt Set: MM(hPa on req) QNH on req(QFE) Trans level: By ATC Trans alt: 3400'(2663')

2700'
MSA LBN VOR

ALT/HEIGHT CONVERSION

QNH	(QFE)
3400'	(2663' - 800m)
2050'	(1313' - 400m)
1400'	(663' - 200m)





Gnd speed-Kts	70	90	100	120	140	160
GS 2.83°	356	457	508	610	711	813

HIALS
PAPI

1400' (663') on 271°

091° RT

2050' (1313')

STRAIGHT-IN LANDING RWY 27

ILS DA(H) 937'(200') FULL	ILS DA(H) 937'(200') ALS out	LOC (GS out)
800m	1200m	NOT AUTHORIZED

PANS OPS: A, B, C, D

CHANGES: Waypoints.

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USCC/CEK BALANDINO

JEPPESEN 15 SEP 06 (13-1) Eff 28 Sep

CHELYABINSK, RUSSIA VOR DME Rwy 09

BRIEFING STRIP ™

CHELYABINSK Approach (APP/SRE)	CHELYABINSK Start (TWR)	Ground
124.7	125.2	125.2

VOR	Final Apch Crs	Minimum Alt	MDA(H)	Apt Elev 769′
LBN 113.3	088°	D5.6 2080′(1321′)	1150′(391′)	RWY 759′

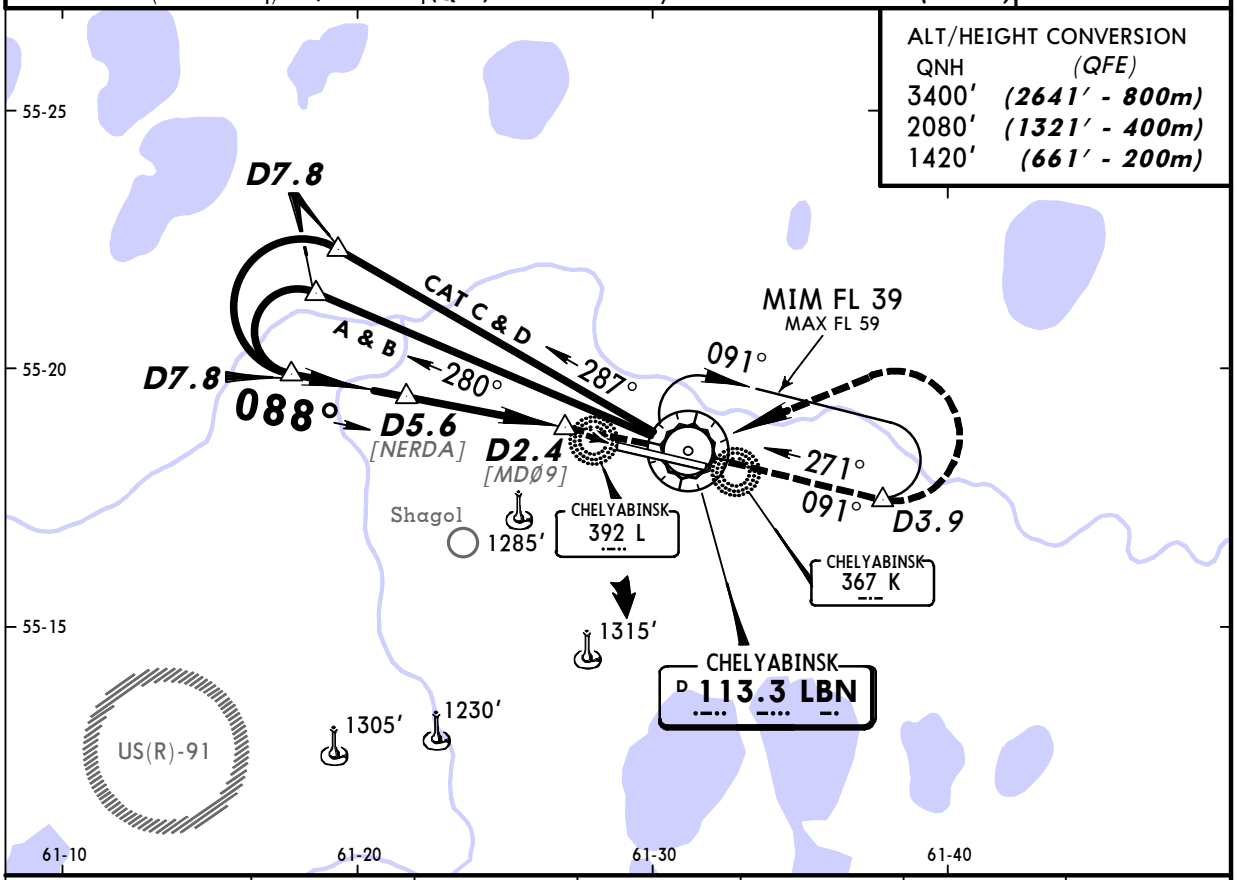
MISSED APCH: Climb on track 091° to 1420′ (661′) or above at D3.9, then turn LEFT to VOR climbing to 2080′ (1321′).

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: By ATC Trans alt: 3400′(2641′)

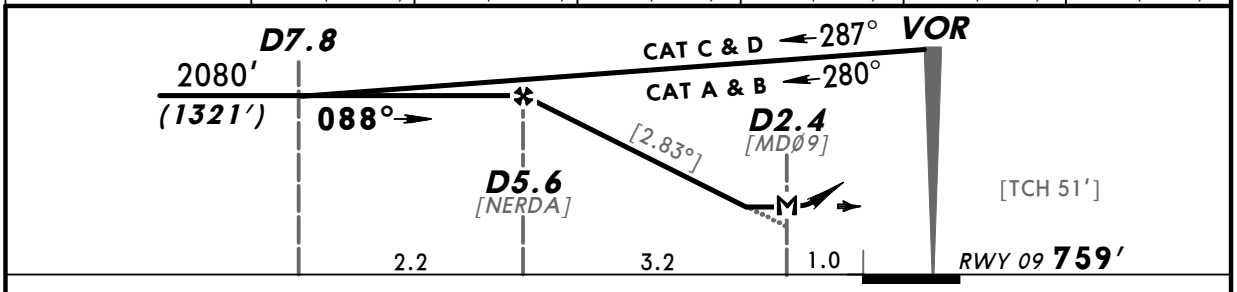
MSA LBN VOR: 2700′

ALT/HEIGHT CONVERSION

QNH	(QFE)
3400′	(2641′ - 800m)
2080′	(1321′ - 400m)
1420′	(661′ - 200m)



LBN DME	5.1	4.6	4.0	3.5	2.9	2.4
ALTITUDE (HAT)	1910′(1151′)	1760′(1001′)	1600′(841′)	1440′(681′)	1290′(531′)	1120′(361′)



Gnd speed-Kts	70	90	100	120	140	160
Descent gradient 4.94% or Descent angle [2.83°]	350	451	501	601	701	801
MAP at D2.4						

HIALS PAPI

1420′ (661′) or above on 091° D3.9

STRAIGHT-IN LANDING RWY 09

MDA(H) 1150′(391′)

PANS OPS

		ALS out
A	1200m	1900m
B		
C		
D	1600m	2000m

CHANGES: FAF designation.

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USCC/CEK BALANDINO

JEPPESEN 15 SEP 06 (13-2) Eff 28 Sep

CHELYABINSK, RUSSIA VOR DME Rwy 27

BRIEFING STRIP ™

CHELYABINSK Approach (APP/SRE)	CHELYABINSK Start (TWR)	Ground
124.7	125.2	125.2

VOR	Final Apch Crs	Minimum Alt	MDA(H)	Apt Elev 769′
LBN 113.3	275°	D4.6 2050′(1313′)	1140′(403′)	RWY 737′

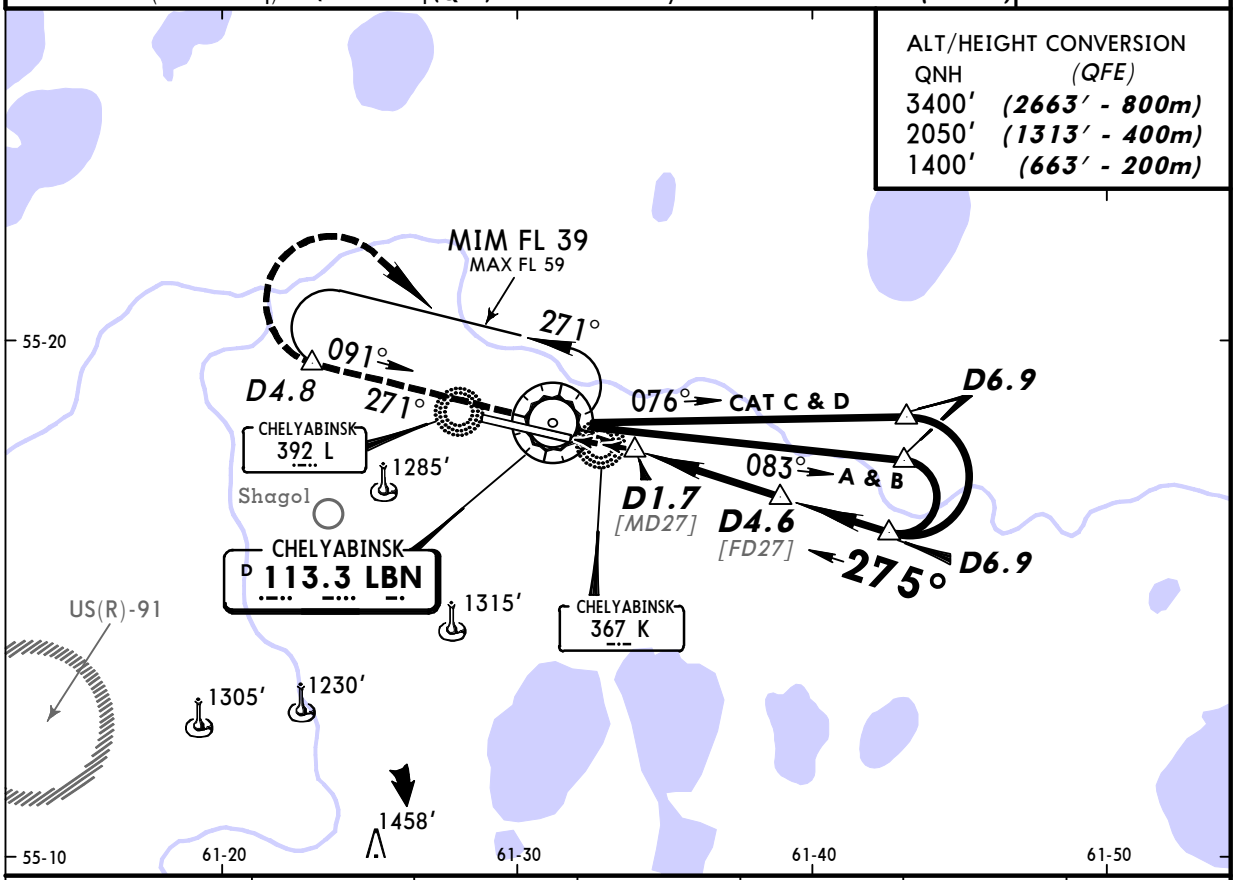
MISSED APCH: Climb on track 271° to 1400′ (663′) or above at D4.8, then turn RIGHT to VOR climbing to 2050′ (1313′).

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: By ATC Trans alt: 3400′(2663′)

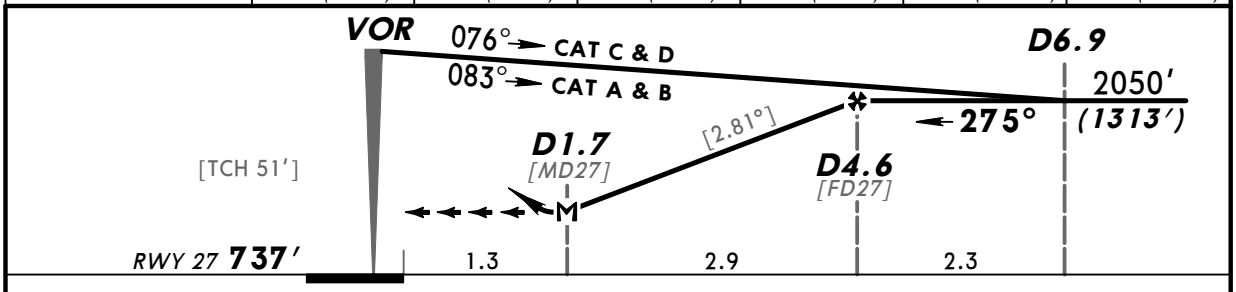
2700′ MSA LBN VOR

ALT/HEIGHT CONVERSION

QNH	(QFE)
3400′	(2663′ - 800m)
2050′	(1313′ - 400m)
1400′	(663′ - 200m)



LBN DME	1.7	2.0	2.6	3.1	3.6	4.2
ALTITUDE (HAT)	1150′(413′)	1270′(533′)	1410′(673′)	1580′(843′)	1740′(1003′)	1890′(1153′)



Gnd speed-Kts	70	90	100	120	140	160
Descent gradient 4.90% or Descent angle [2.81°]	348	447	497	596	696	795
MAP at D1.7						

HIALS PAPI 1400′ (663′) or above on 271° D4.8

STRAIGHT-IN LANDING RWY 27

MDA(H) 1140′(403′)

PANS OPS

		ALS out
A	1600m	2400m
B		
C		
D		

CHANGES: None.

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USCC/CEK BALANDINO

JEPPESEN 1 FEB 08 (16-1) Eff 14 Feb

CHELYABINSK, RUSSIA 2 NDB Rwy 09

BRIEFING STRIP ™

CHELYABINSK Approach (APP/SRE)	CHELYABINSK Start (TWR)	Ground
124.7	125.2	125.2

NDB	Final Apch Crs	Minimum Alt	MDA(H)	Apt Elev 769'
LB 452	091°	LOM 1420'(661')	Refer to Minimums	RWY 759'

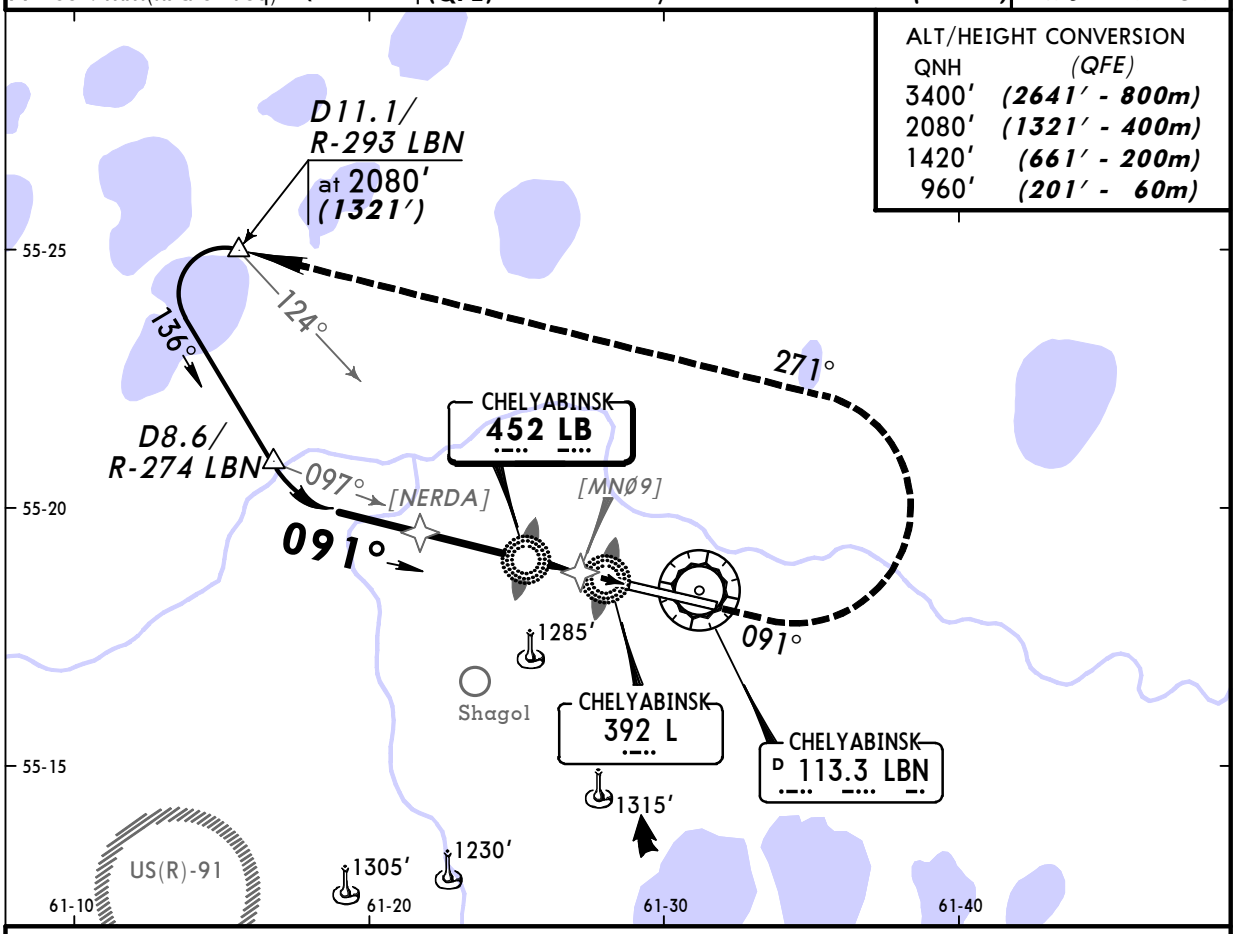
MISSED APCH: Climb on 091° to 1420'(661'), then turn LEFT onto 271° climbing to 2080' (1321'), then according to chart.

Alt Set: MM(hPa on req) QNH on req (QFE) Trans level: By ATC Trans alt: 3400'(2641')

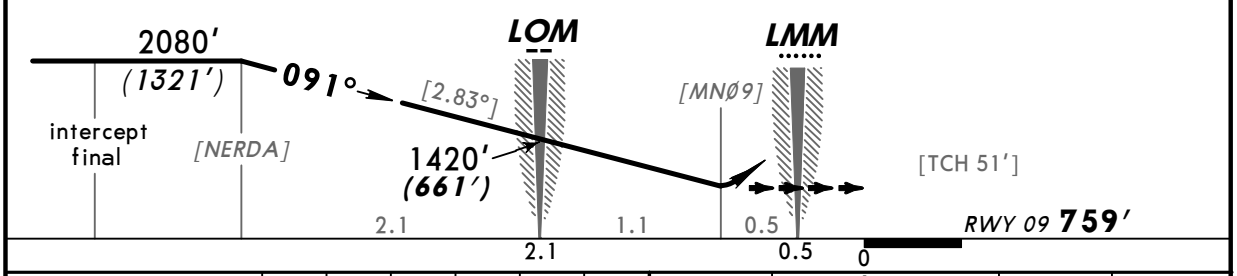
2700'
MSA LBN VOR

ALT/HEIGHT CONVERSION

QNH	(QFE)
3400'	(2641' - 800m)
2080'	(1321' - 400m)
1420'	(661' - 200m)
960'	(201' - 60m)



Pass LMM not below 960' (201').



Gnd speed-Kts	70	90	100	120	140	160
Desc grad 4.94% or Descent angle [2.83°]	350	451	501	601	701	801

HIALS PAPI 1420' (661') on 091° 271° LT 2080' (1321')

STRAIGHT-IN LANDING RWY 09

2 NDB		LB NDB or L NDB	
MDA(H) 1110'(351')		MDA(H) 1210'(451')	
	ALS out		ALS out

PANS OPS

A	1200m	1900m	1700m	2500m
B				
C				
D	1600m	2000m	2100m	

CHANGES: Procedure.

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USCC/CEK BALANDINO

JEPPESEN 1 FEB 08 (16-2) Eff 14 Feb

CHELYABINSK, RUSSIA 2 NDB Rwy 27

BRIEFING STRIP ™

CHELYABINSK Approach (APP/SRE)	CHELYABINSK Start (TWR)	Ground
124.7	125.2	125.2

NDB KS	Final Apch Crs	Minimum Alt LOM	MDA(H)	Apt Elev 769' RWY 737'
412	271°	1400'(663')	1140'(403')	

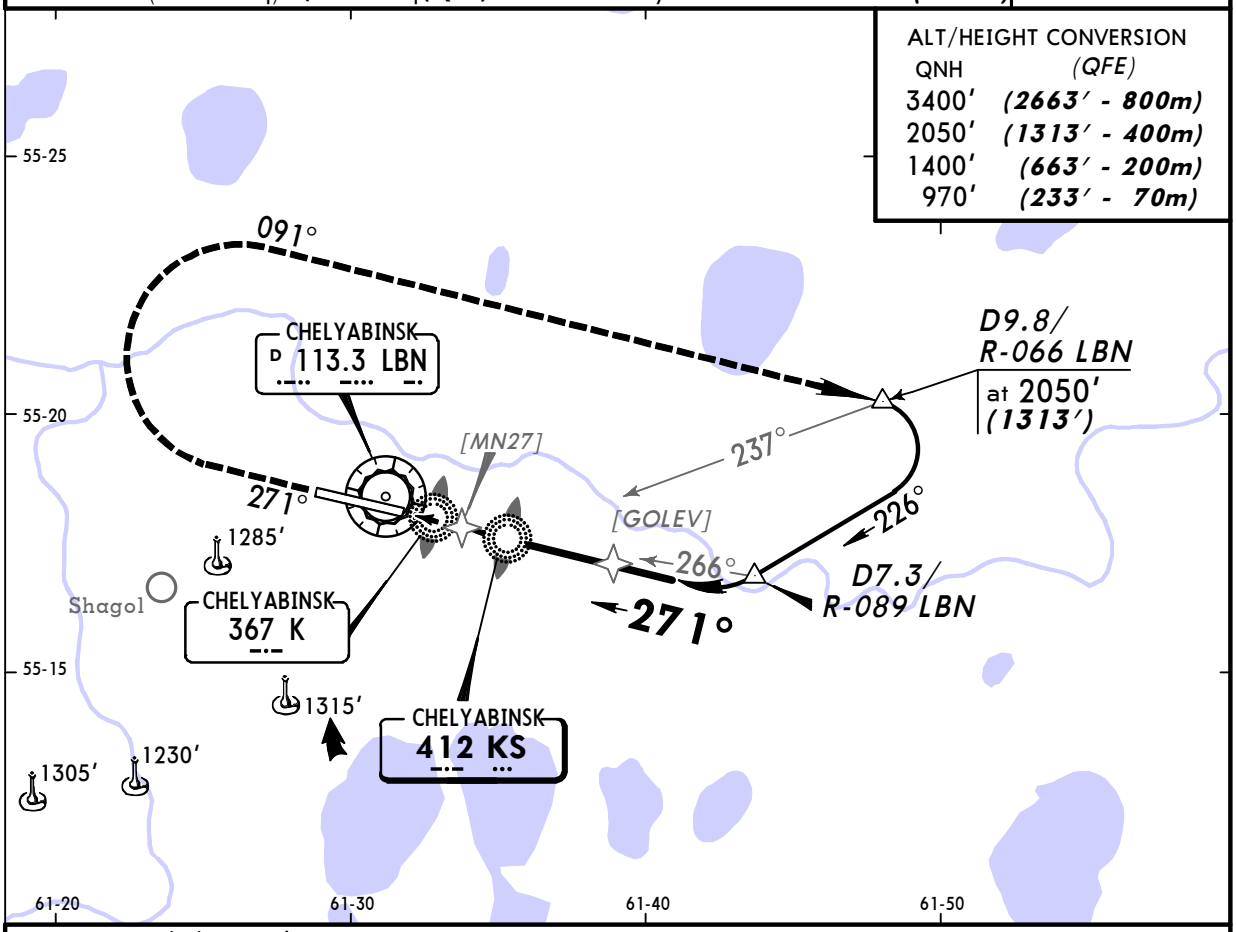
MISSED APCH: Climb on 271° to 1400'(663'), then turn RIGHT onto 091° climbing to 2050'(1313'), then according to chart.

Alt Set: MM(hPa on req) QNH on req(QFE) Trans level: By ATC Trans alt: 3400'(2663')

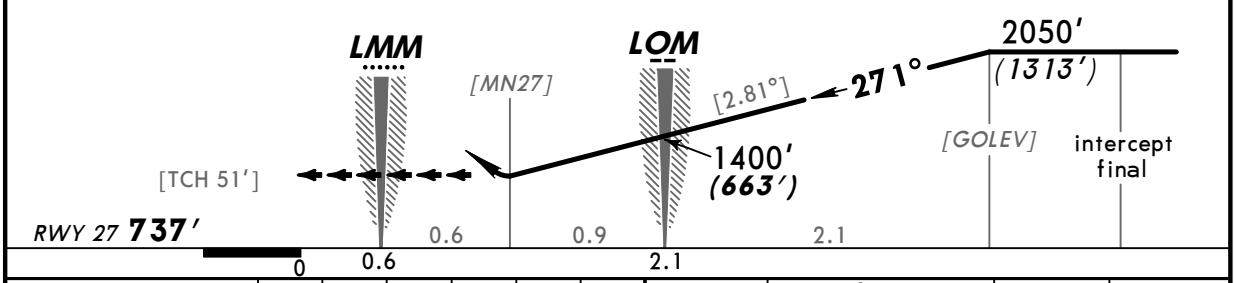
2700'
MSA LBN VOR

ALT/HEIGHT CONVERSION

QNH	(QFE)
3400'	(2663' - 800m)
2050'	(1313' - 400m)
1400'	(663' - 200m)
970'	(233' - 70m)



Pass LMM not below 970' (233').



Gnd speed-Kts	70	90	100	120	140	160
Desc grad 4.90% or Descent angle [2.81°]	348	447	497	596	696	795

HIALS
PAPI

1400' (663') on 271°

091° RT

2050' (1313')

STRAIGHT-IN LANDING RWY 27

	2 NDB MDA(H) 1140'(403')		KS NDB or K NDB MDA(H) 1140'(403')	
		ALS out		ALS out
A	1500m	2300m	1500m	2300m
B				
C				
D	1900m		1900m	

PANS OPS

CHANGES: Waypoints.

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