

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 04-2011

TERMINAL CHART NOTAMs

No Chart NOTAMs for Airport USTR

General Info

Tyumen, RUS

N 57° 10.1' E 65° 19.0' Mag Var: 13.9°E

Elevation: 379'

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 03-21 9852' x 148' asphalt

Runway 12-30 8871' x 164' asphalt

Runway 03 (34.0°M) TDZE 371'

Lights: Edge, ALS

Runway 12 (120.0°M) TDZE 314'

Lights: Edge, ALS

Runway 21 (214.0°M) TDZE 341'

Lights: Edge, ALS

Runway 30 (300.0°M) TDZE 343'

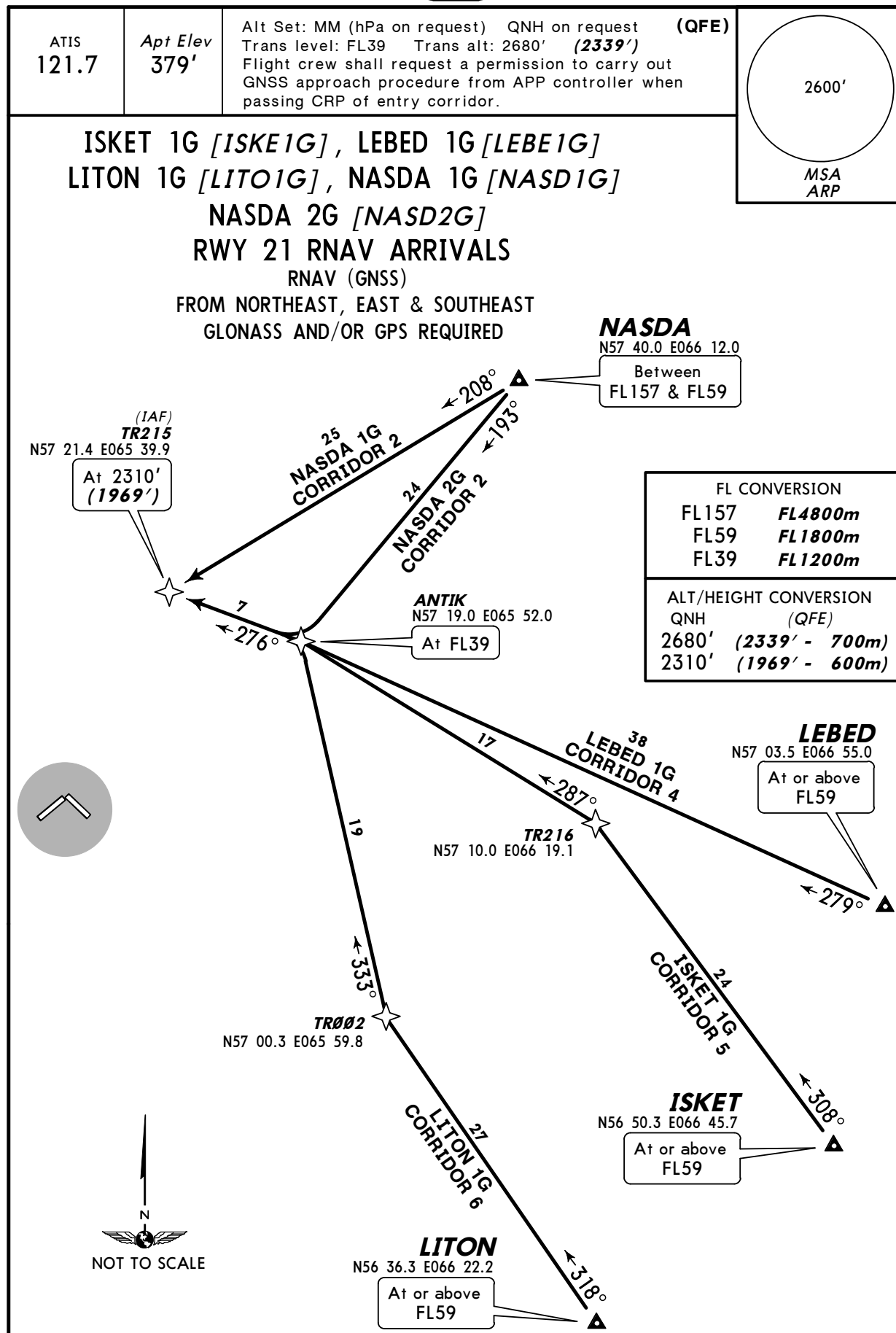
Lights: Edge, ALS

Communications InfoATIS **121.7**Tyumen Taxiing Tower **119.0**Tyumen Start Tower **118.2**Tyumen Approach Control **126.1**Tyumen Krug Radar **120.4****Notebook Info**

USTR/TJM
ROSHCHINO

JEPPesen
13 AUG 10 **10-2** **Eff 26 Aug**

TYUMEN, RUSSIA
RNAV STAR

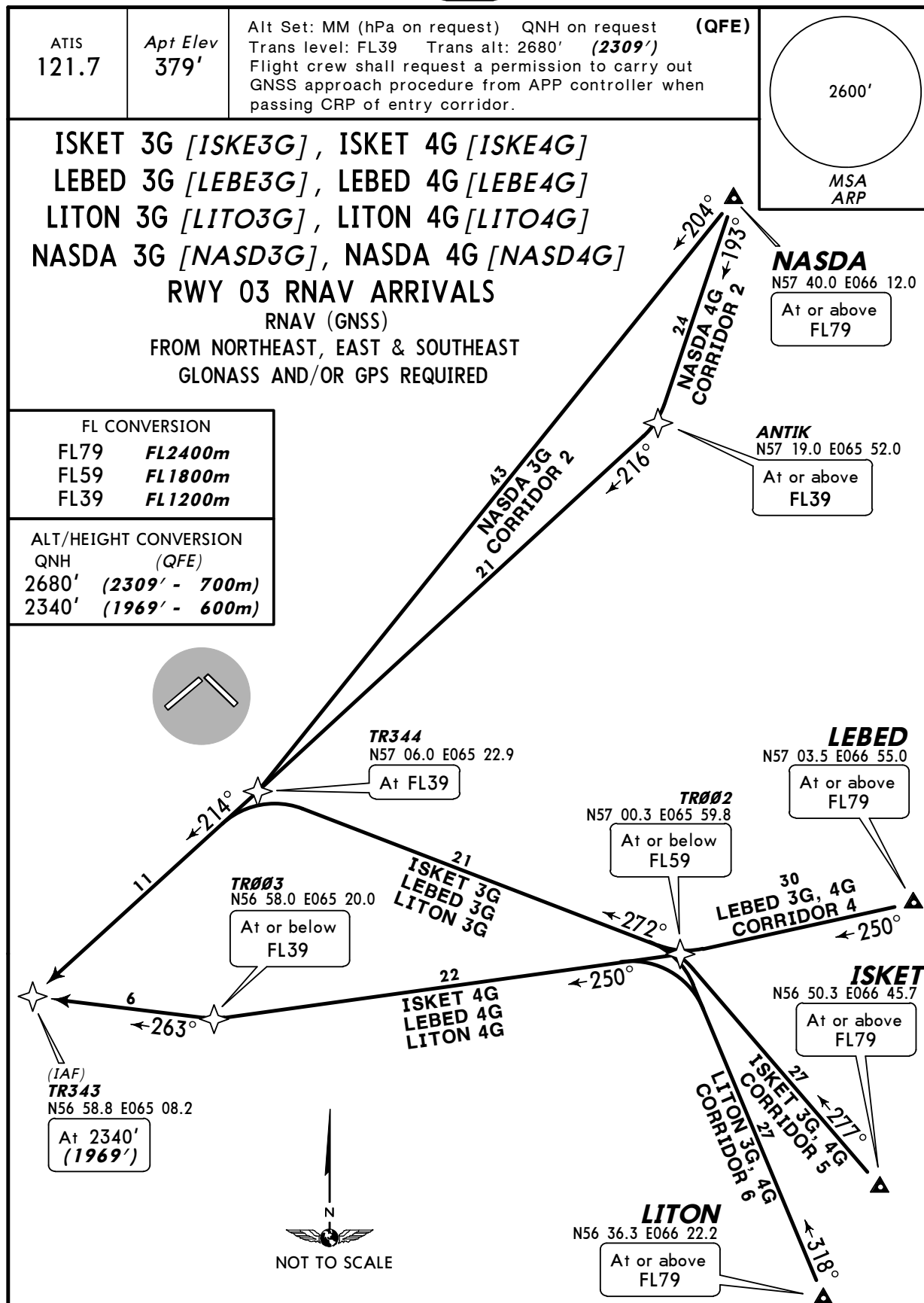


STAR	ROUTING
ISKET 1G	ISKET (FL59+) - TR216 - ANTIK (FL39) - TR215 (2310').
LEBED 1G	LEBED (FL59+) - ANTIK (FL39) - TR215 (2310').
LITON 1G	LITON (FL59+) - TR002 - ANTIK (FL39) - TR215 (2310').
NASDA 1G	NASDA (FL157-; FL59+) - TR215 (2310').
NASDA 2G	NASDA (FL157-; FL59+) - ANTIK (FL39) - TR215 (2310').

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JEPPesen
13 AUG 10 **10-2A** **Eff 26 Aug**

TYUMEN, RUSSIA
RNAV STAR



STAR	ROUTING
ISKET 3G	ISKET (FL79+) - TR002 (FL59-) - TR344 (FL39) - TR343 (2340').
ISKET 4G	ISKET (FL79+) - TR002 (FL59-) - TR003 (FL39-) - TR343 (2340').
LEBED 3G	LEBED (FL79+) - TR002 (FL59-) - TR344 (FL39) - TR343 (2340').
LEBED 4G	LEBED (FL79+) - TR002 (FL59-) - TR003 (FL39-) - TR343 (2340').
LITON 3G	LITON (FL79+) - TR002 (FL59-) - TR344 (FL39) - TR343 (2340').
LITON 4G	LITON (FL79+) - TR002 (FL59-) - TR003 (FL39-) - TR343 (2340').
NASDA 3G	NASDA (FL79+) - TR344 (FL39) - TR343 (2340').
NASDA 4G	NASDA (FL79+) - ANTIK (FL39+) - TR344 (FL39) - TR343 (2340').

USTR/TJM
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JEPPESEN
13 AUG 10 (10-2B) Eff 26 Aug

TYUMEN, RUSSIA
RNAV STAR

ATIS 121.7	Apt Elev 379'	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL39 Trans alt: 2680' (2336') Flight crew shall request a permission to carry out GNSS approach procedure from APP controller when passing CRP of entry corridor.	2600' MSA ARP
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ISKET 5G [ISKE5G]
LEBED 5G [LEBE5G]
LITON 5G [LITO5G]
NASDA 5G [NASD5G]
RWY 30 RNAV ARRIVALS

RNAV (GNSS)
FROM NORTHEAST, EAST & SOUTHEAST
GLONASS AND/OR GPS REQUIRED

FL CONVERSION

FL167	FL5100m
FL157	FL4800m
FL59	FL1800m
FL49	FL1500m
FL39	FL1200m

ALT/HEIGHT CONVERSION

QNH	(QFE)
3300'	(2956' - 900m)
2680'	(2336' - 700m)

STAR	ROUTING
ISKET 5G	ISKET (FL167-; FL39+) - TR002 (FL49-).
LEBED 5G	LEBED (FL167-; FL39+) - TR002 (FL49-).
LITON 5G	LITON (FL167-; FL39+) - TR002 (FL49-).
NASDA 5G	NASDA (FL157-; FL59+) - TR306 (3300').

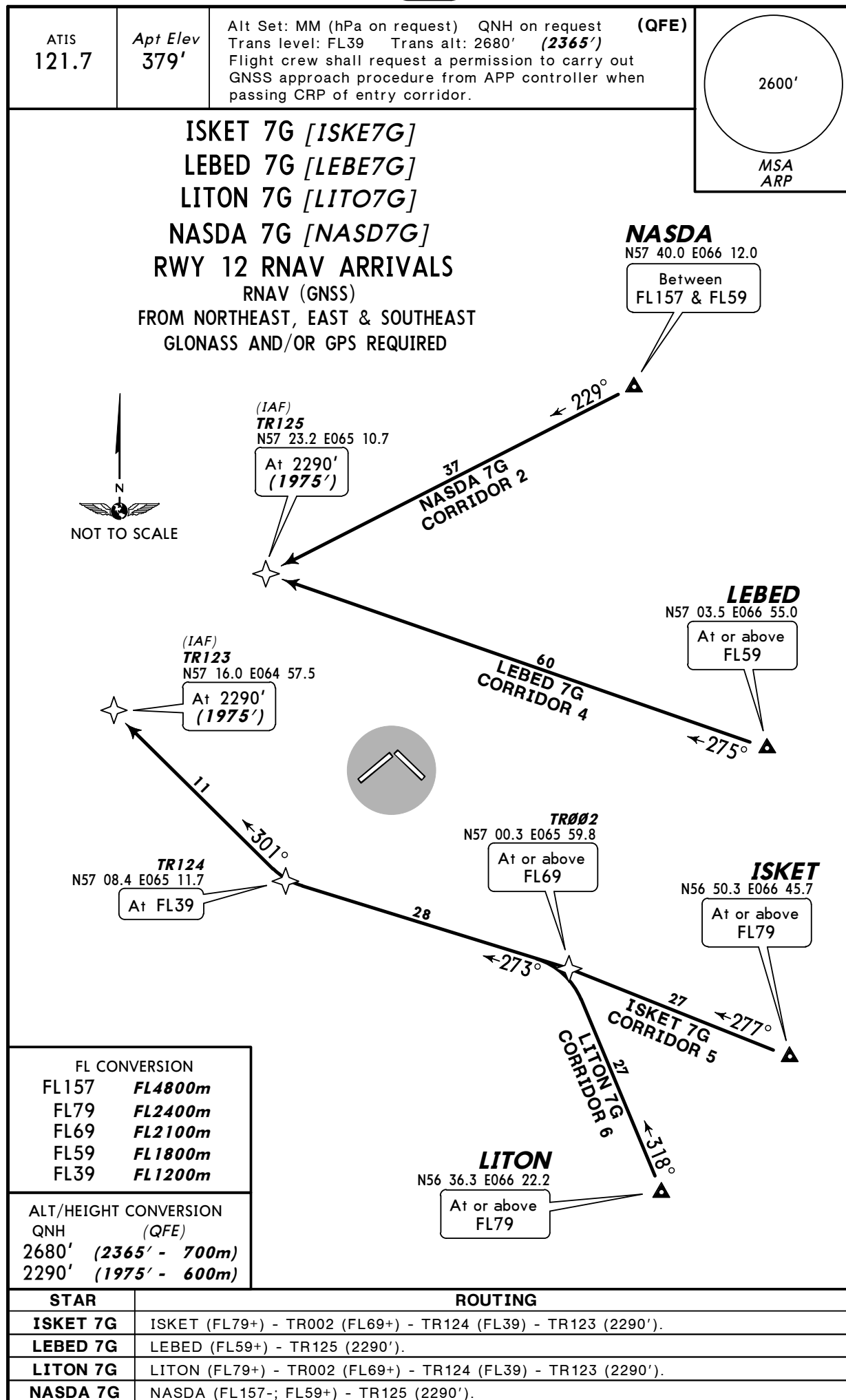
CHANGES: Track from LEBED to TR002 updated.

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JEPPesen
13 AUG 10 **10-2C** **Eff 26 Aug**

TYUMEN, RUSSIA
RNAV STAR



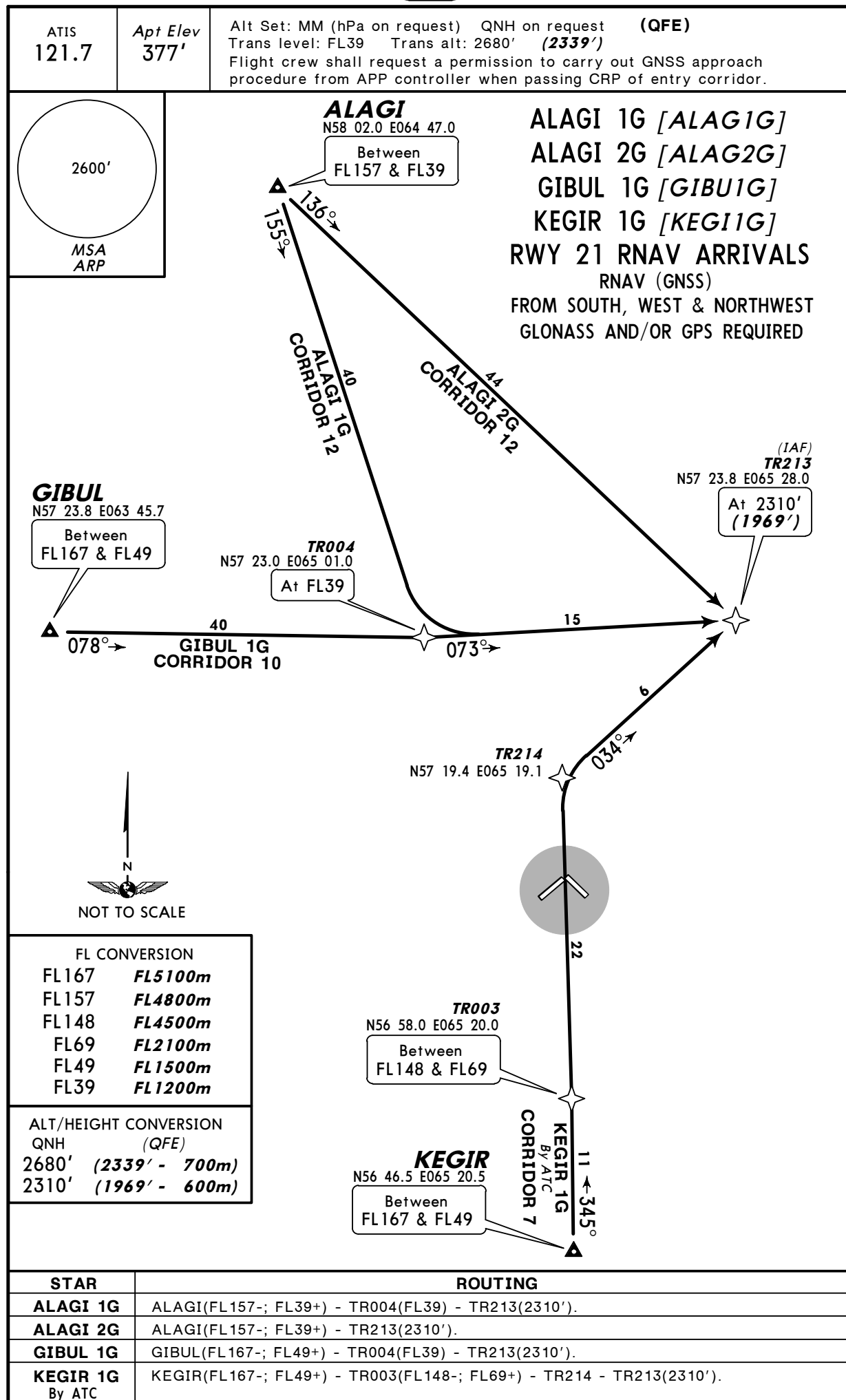
FL CONVERSION	
FL157	FL4800m
FL79	FL2400m
FL69	FL2100m
FL59	FL1800m
FL39	FL1200m

ALT/HEIGHT CONVERSION	
QNH	(QFE)
2680'	(2365' - 700m)
2290'	(1975' - 600m)

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JEPPESEN
17 JUL 09 **(10-2D)** **Eff 30 Jul**

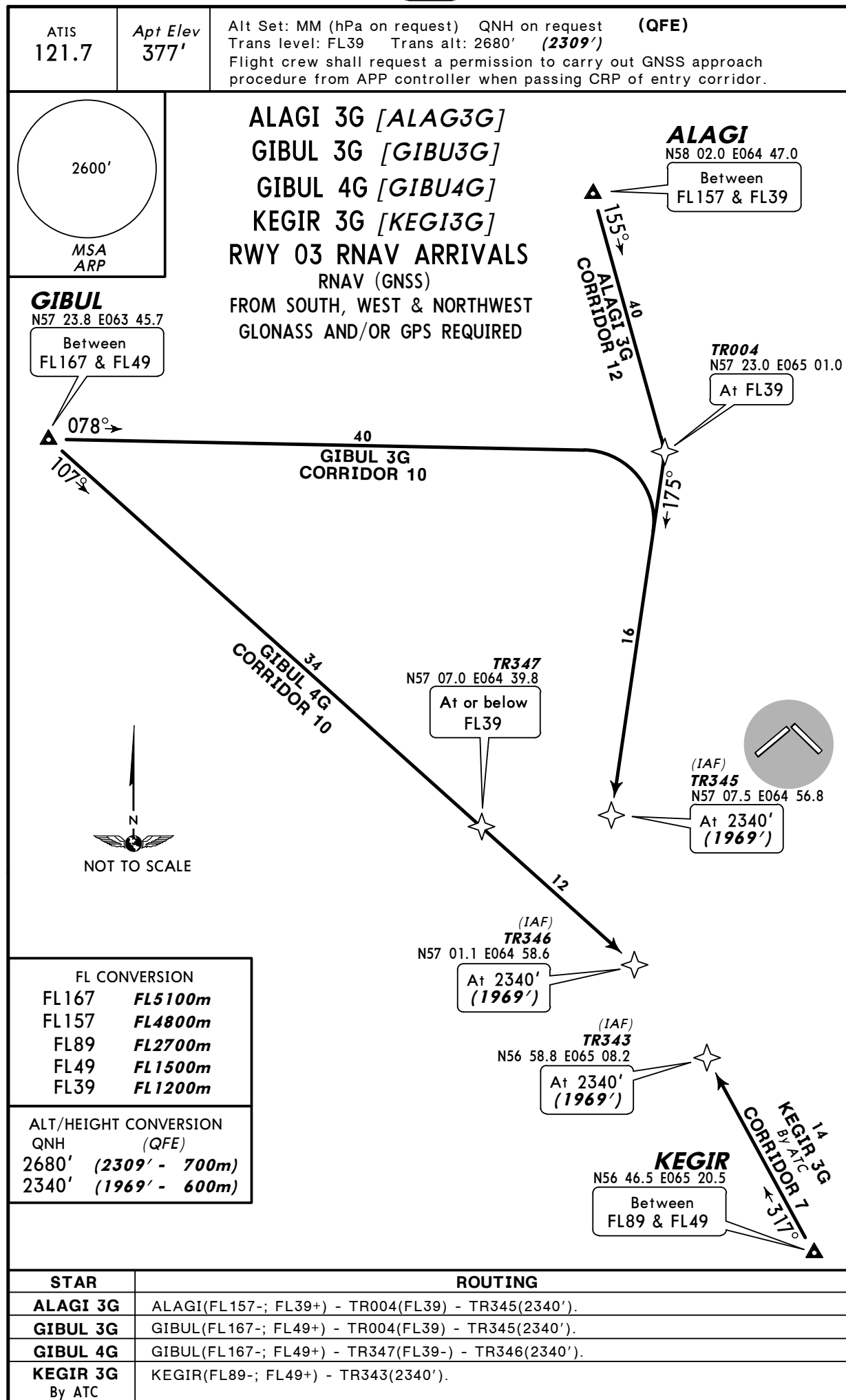
TYUMEN, RUSSIA
RNAV STAR



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JEPPESSEN
17 JUL 09 **10-2E** **Eff 30 Jul**

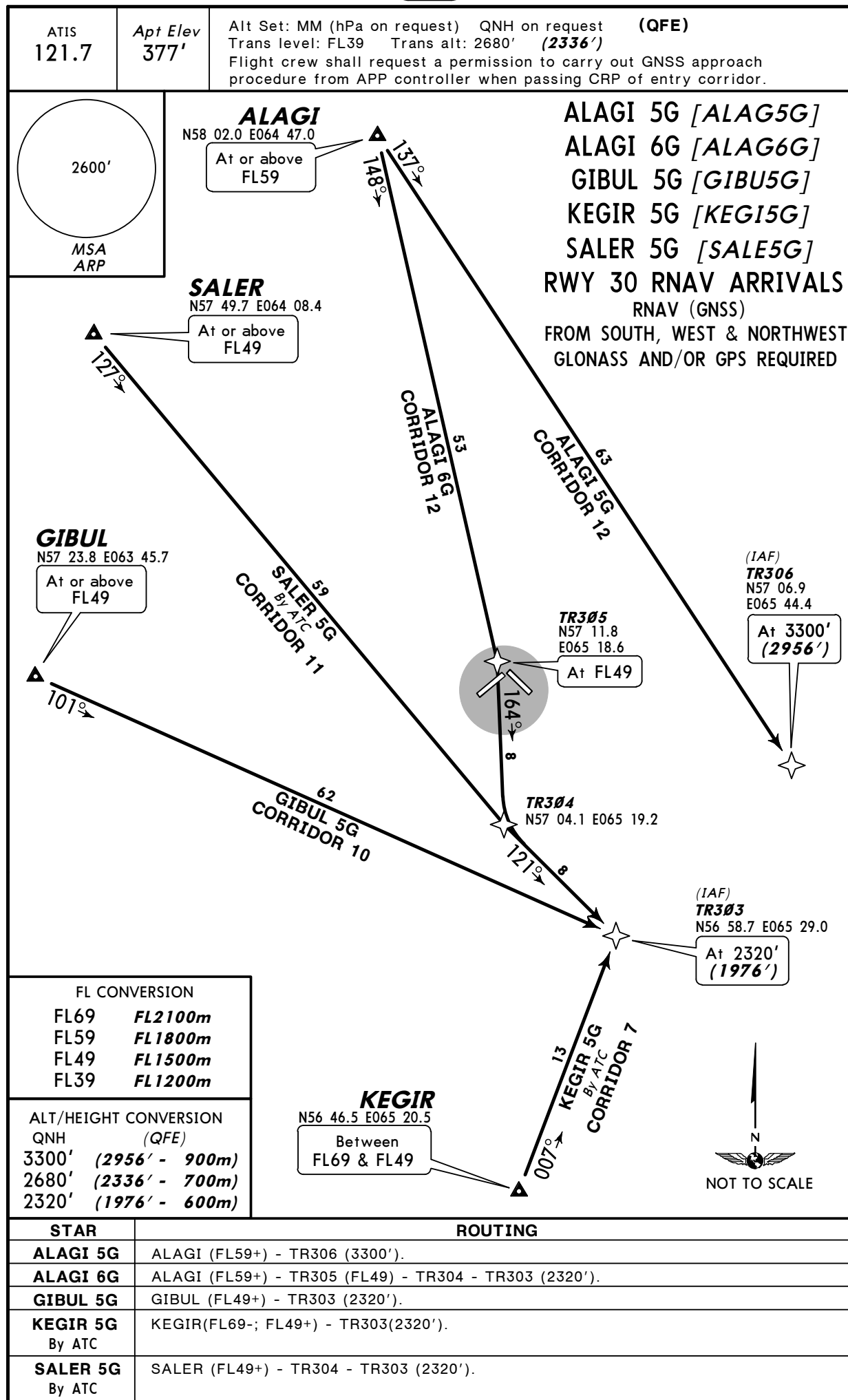
TYUMEN, RUSSIA
RNAV STAR



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JEPPESEN
9 APR 10 10-2F

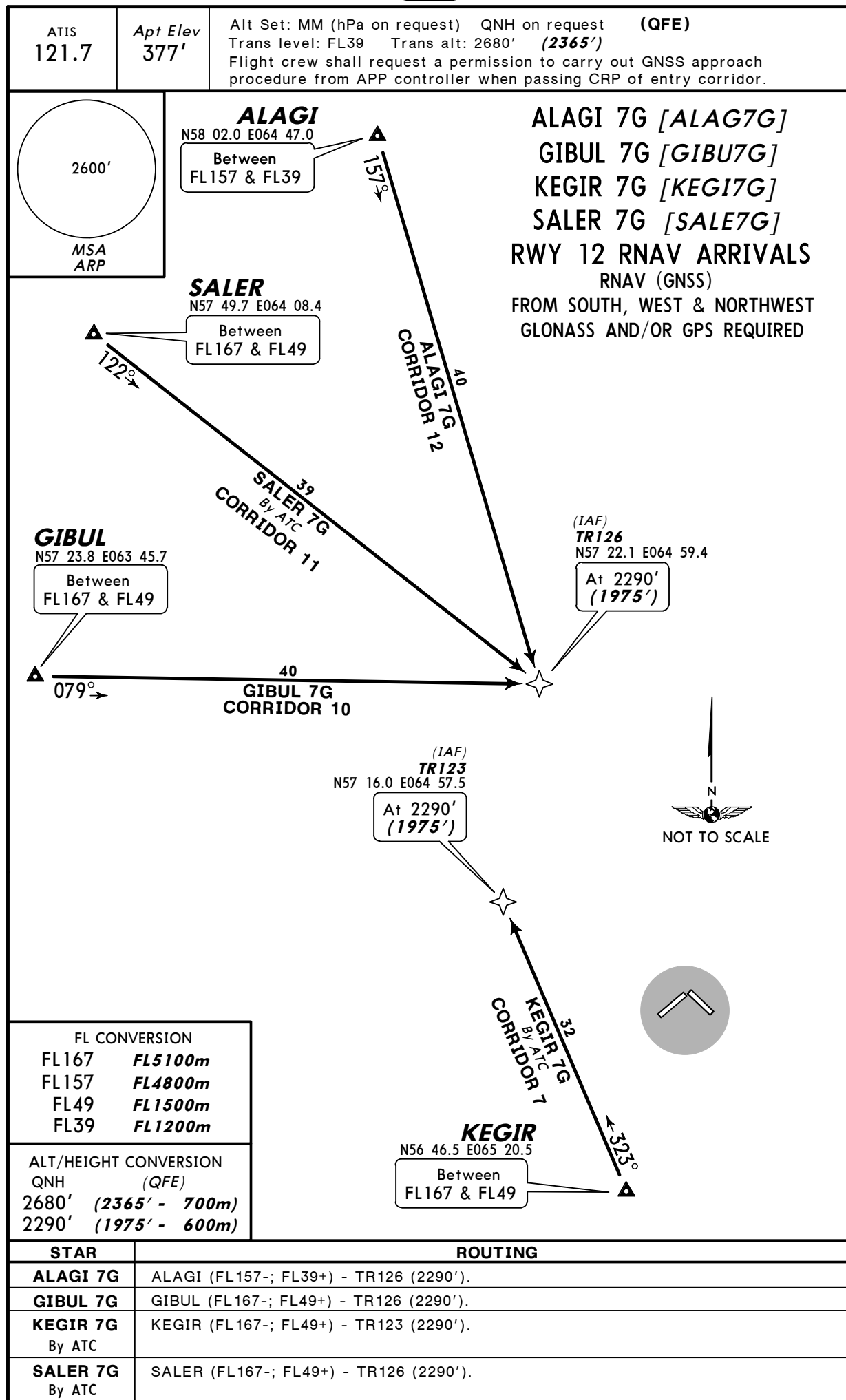
TYUMEN, RUSSIA
RNAV STAR



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JEPPESEN
9 APR 10 **(10-2G)**

TYUMEN, RUSSIA
RNAV STAR



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JEPPESEN
9 APR 10 (10-2H)

TYUMEN, RUSSIA

ATIS
121.7

Apt Elev
377'

Alt Set: MM (hPa on request) QNH on request
Trans level: FL39 Trans alt: 2680' (**2309'**)

(QFE)

NA Ø3A, NA Ø3B, NA Ø3C
RWY 03 ARRIVALS
FROM NORTH

2600'
MSA
ARP

NASDA
N57 40.0 E066 12.0
At or above
FL79

ANTIK
N57 19.0 E065 52.0
At or above
FL69

315 RN
N57 08.8 E065 14.1

Intercept final at 1690' (1319')

034°
028°
178°
211°
207°
193°
219°
349°

44
51
28
24
6

NA Ø3A CORRIDOR 2
NA Ø3B CORRIDOR 2
NA Ø3C CORRIDOR 2

N57 04.9 E065 07.9
At 1690' (1319')

N57 02.3 E065 10.9
At 2340' (1969')

N57 01.9 E065 10.6
(002° brg to RN)
At 2340' (1969')

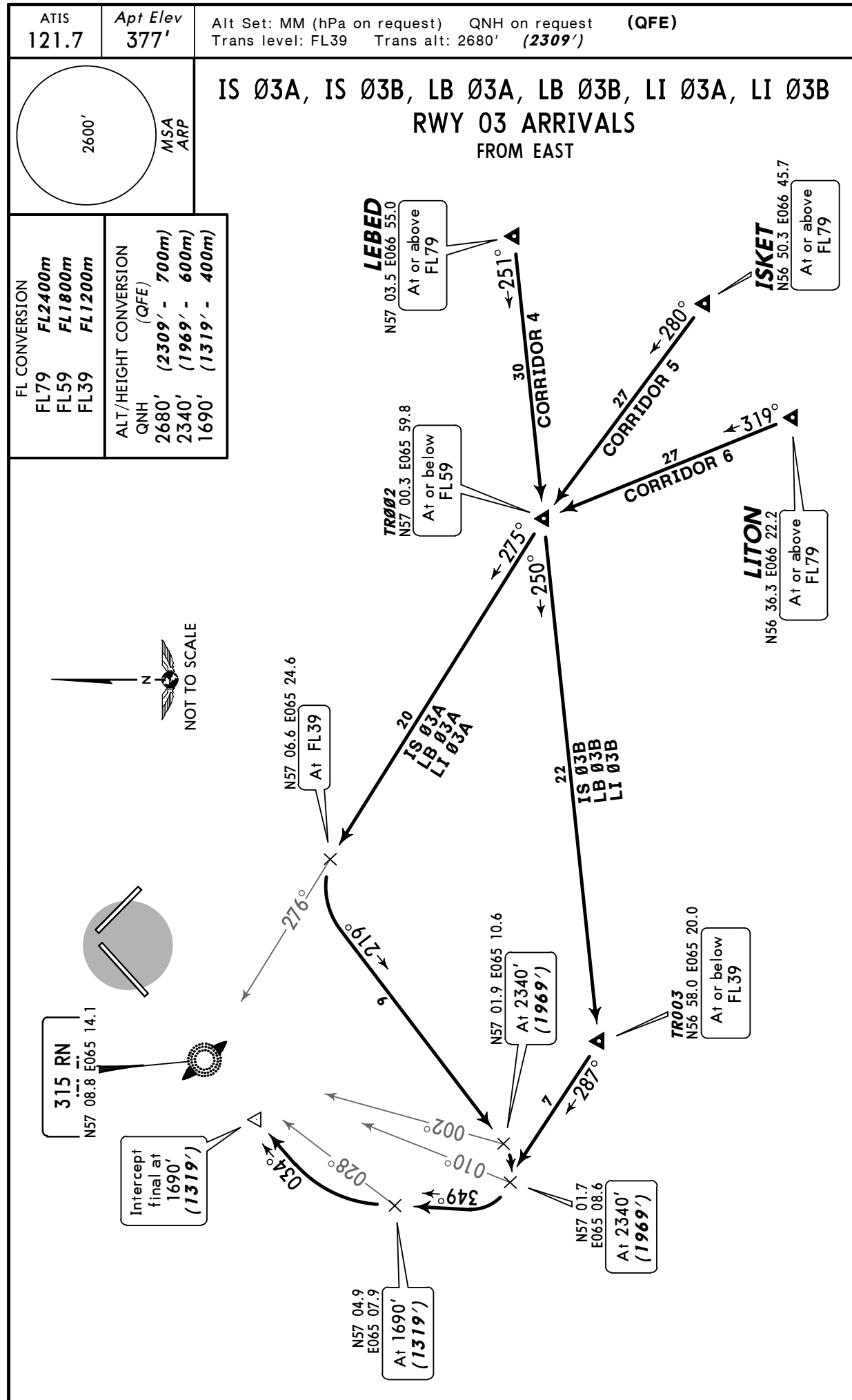
FL CONVERSION	
FL79	FL2400m
FL69	FL2100m
FL39	FL1200m

ALT/HEIGHT CONVERSION	
QNH	(QFE)
2680'	(2309' - 700m)
2340'	(1969' - 600m)
1690'	(1319' - 400m)

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JEPPESSEN
9 APR 10 **(10-2J)**

TYUMEN, RUSSIA
STAR

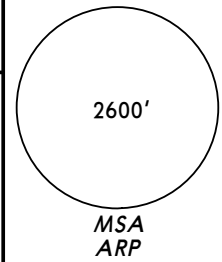


USTR/TJM
ROSHCHINO

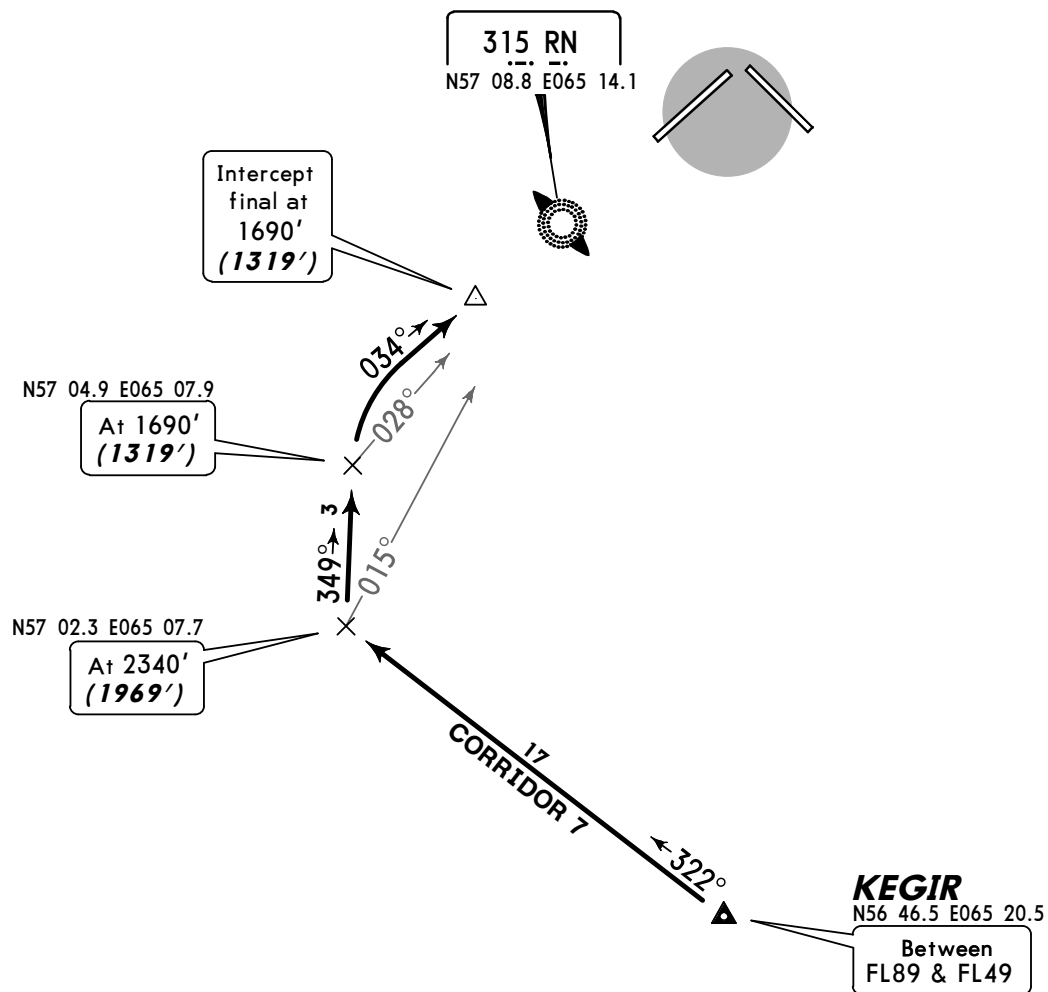
JEPPESEN
1 JAN 10 **10-2K** Eff 14 Jan

TYUMEN, RUSSIA
STAR

ATIS **121.7** Apt Elev **377'** Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: FL39 Trans alt: 2680' (**2309'**)



KE 03A
RWY 03 ARRIVAL
FROM SOUTH
By ATC



FL CONVERSION
FL89 **FL2700m**
FL49 **FL1500m**
FL39 **FL1200m**

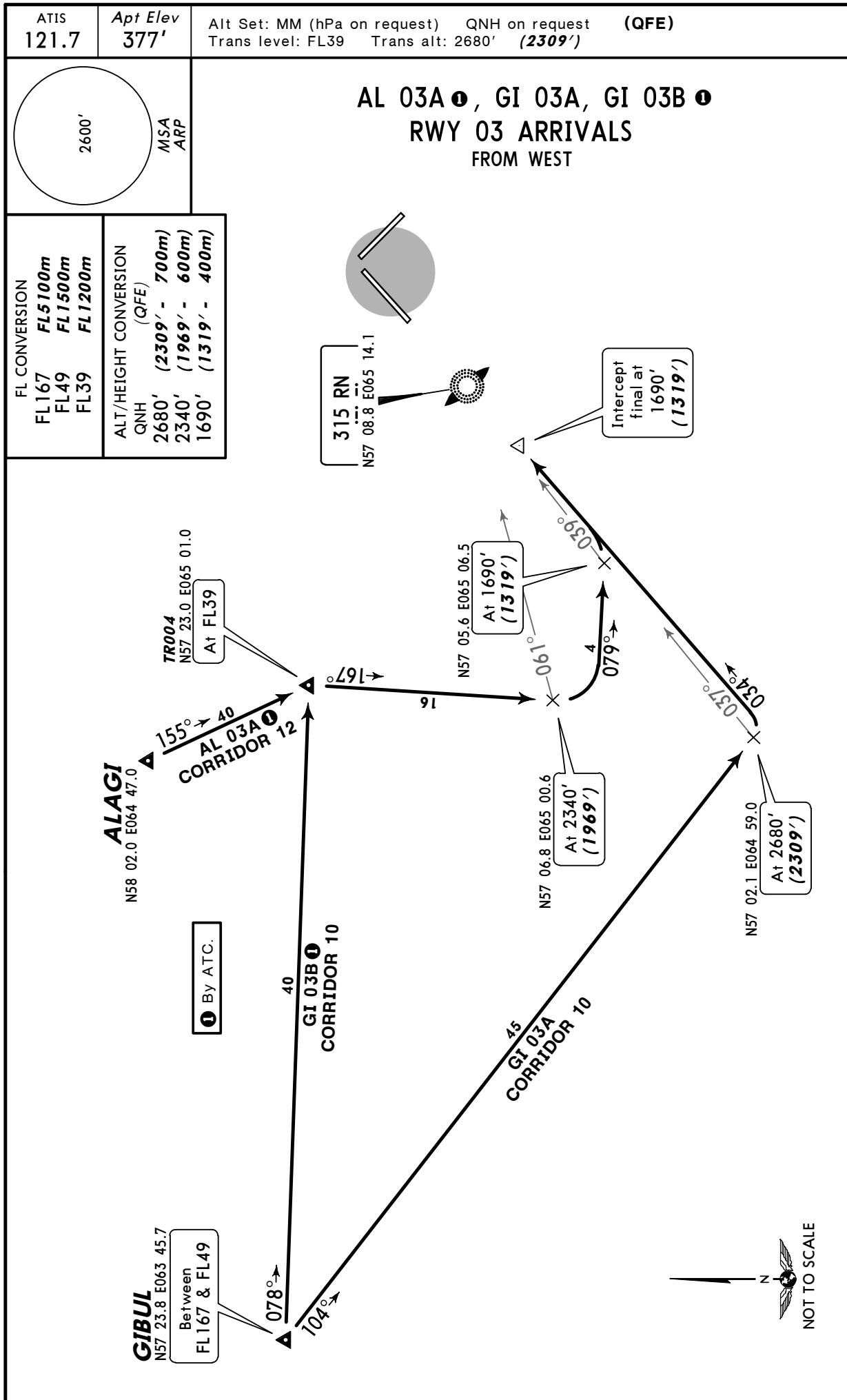
ALT/HEIGHT CONVERSION
QNH (QFE)
2680' (**2309' - 700m**)
2340' (**1969' - 600m**)
1690' (**1319' - 400m**)



USTR/TJM
ROSHCHINO

JEPPESEN
1 JAN 10 (10-2L) Eff 14 Jan

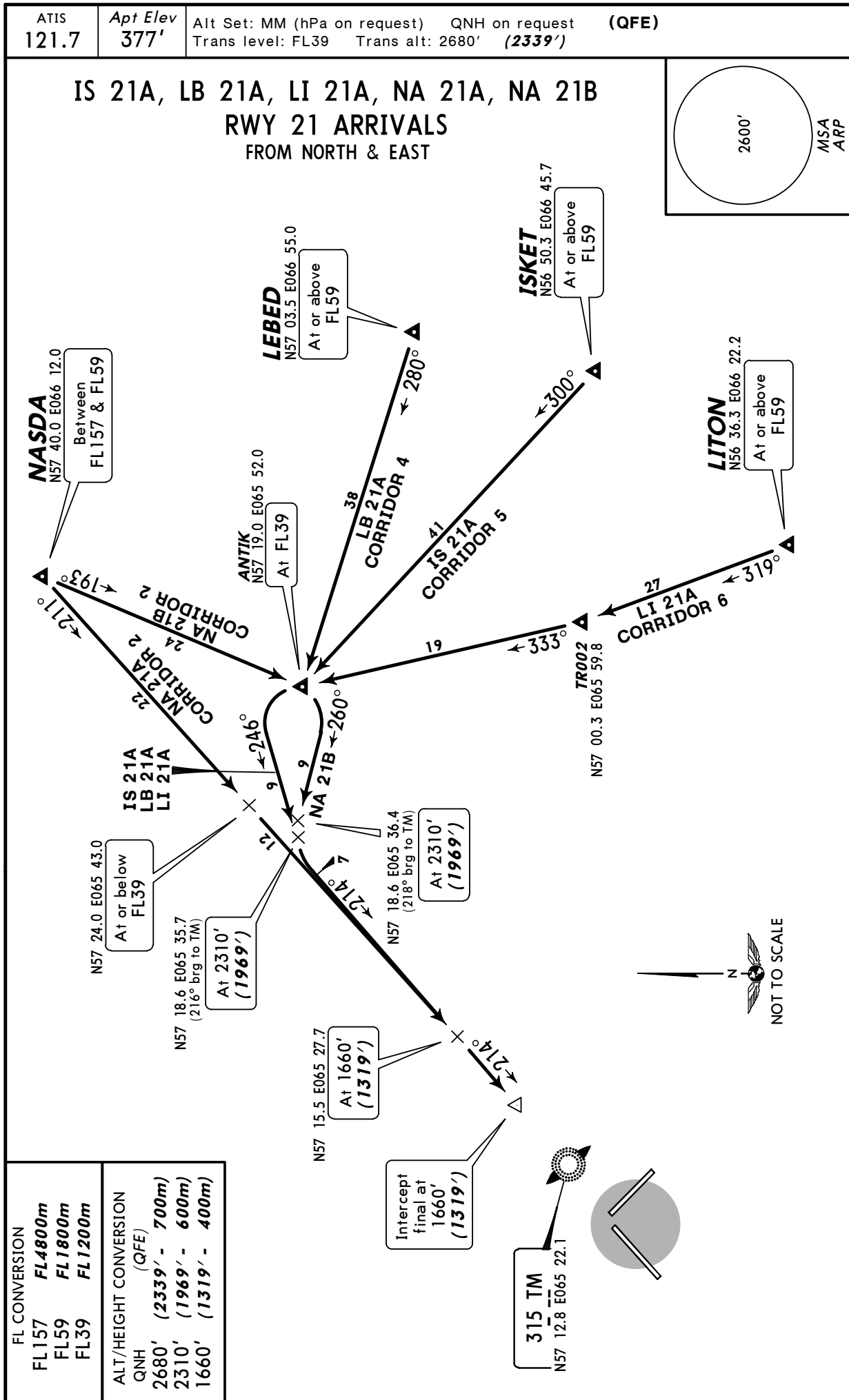
TYUMEN, RUSSIA

STAR

USTR/TJM
ROSHCHINO

JEPPESEN
9 APR 10 **(10-2M)**

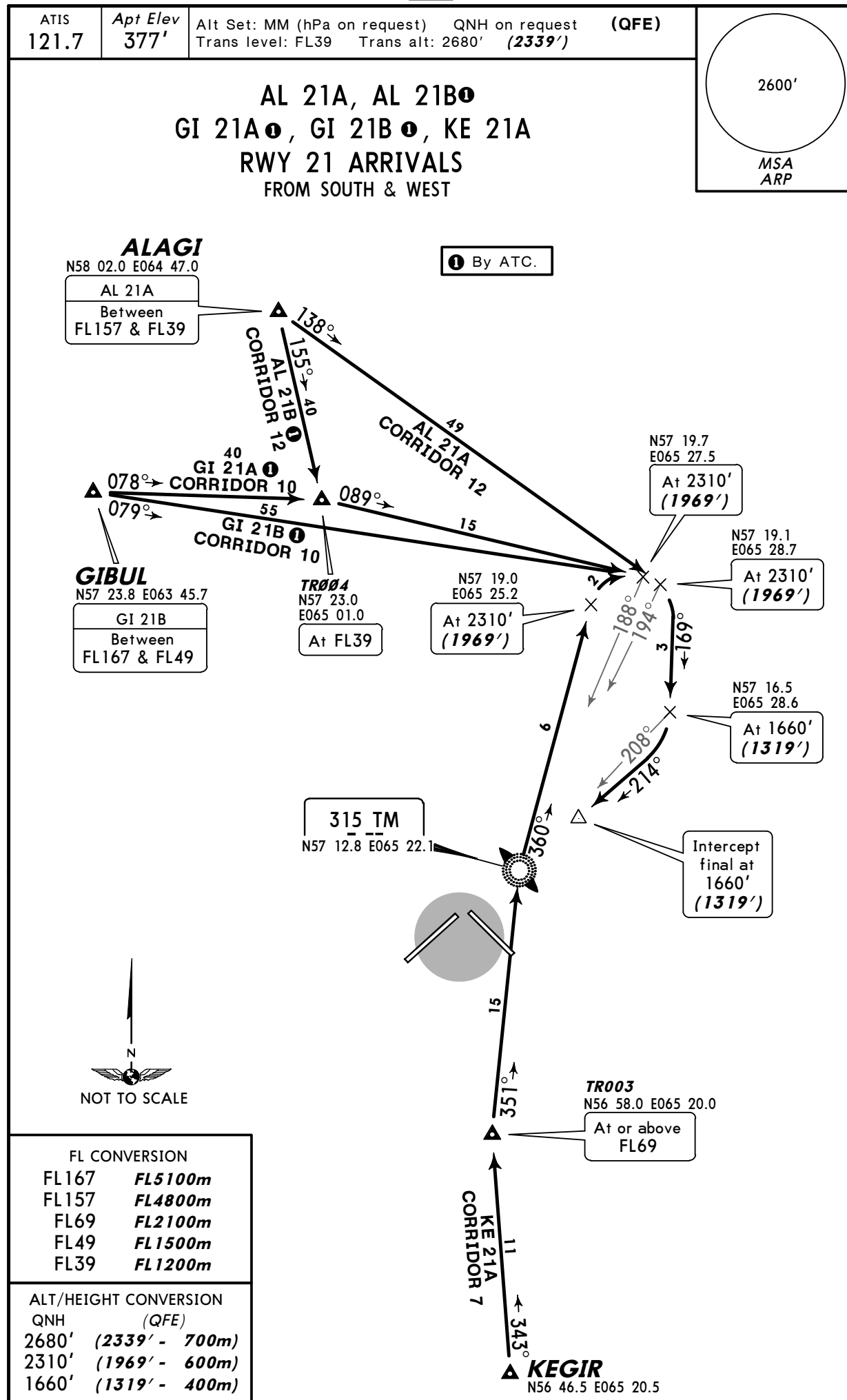
TYUMEN, RUSSIA
STAR



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ROSHCHINO

JEPPESSEN
9 APR 10 **10-2N**

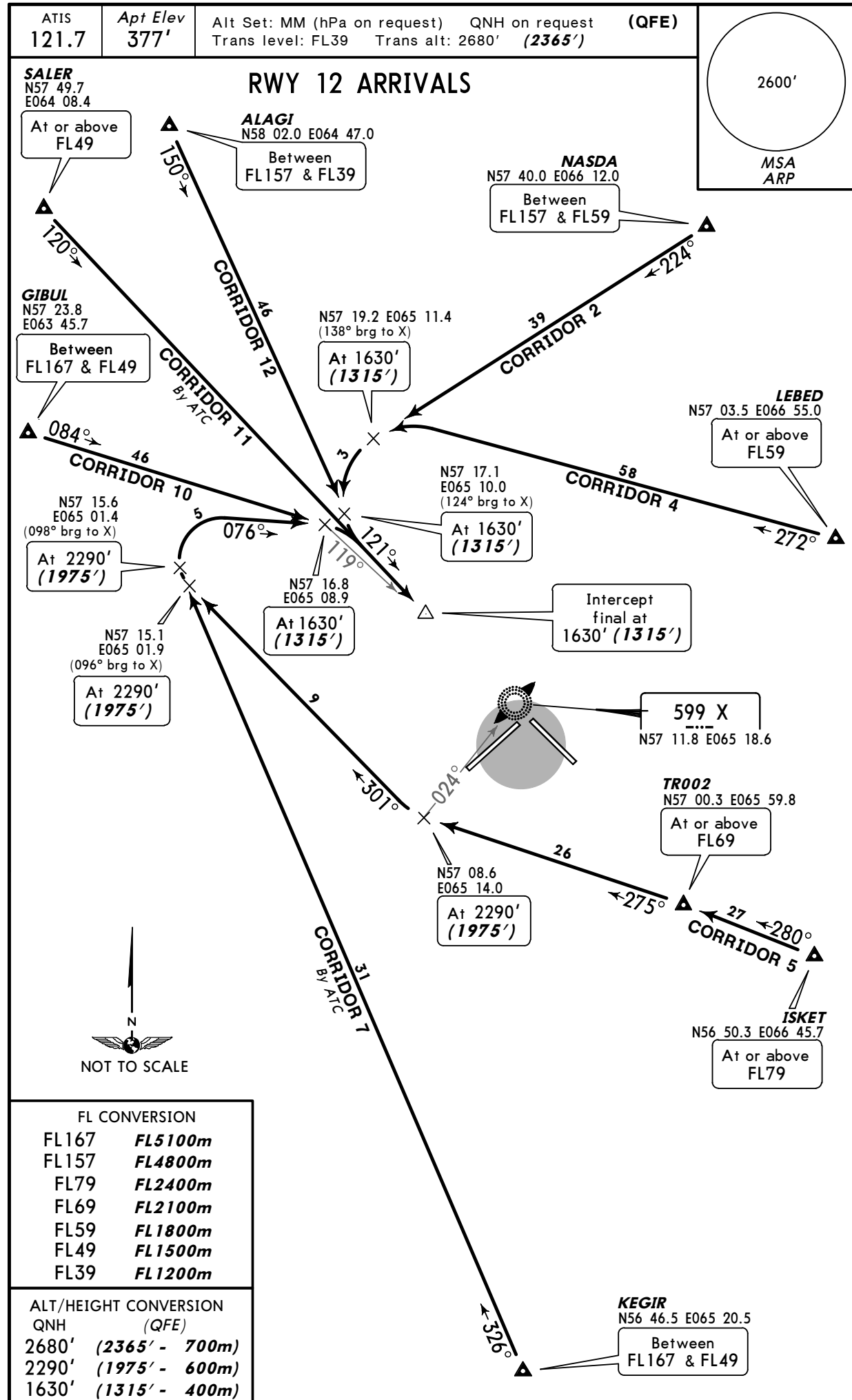
TYUMEN, RUSSIA
STAR



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ROSHCHINO

JEPPesen
9 APR 10 **(10-2P)**

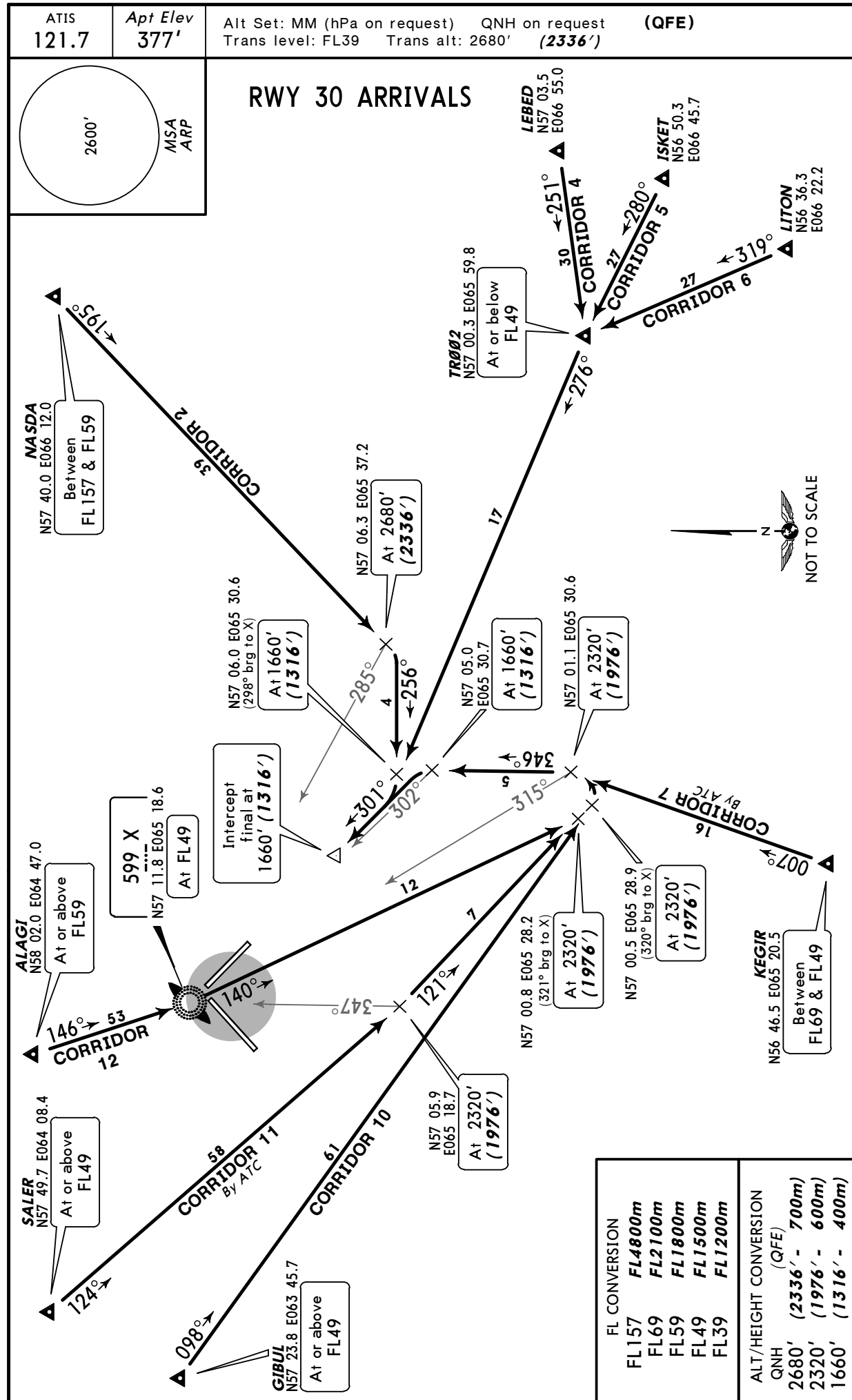
TYUMEN, RUSSIA
STAR



USTR/TJM
ROSHCHINO

JEPPesen
9 APR 10 **(10-2Q)**

TYUMEN, RUSSIA
STAR



USTR/TJM
ROSHCHINO

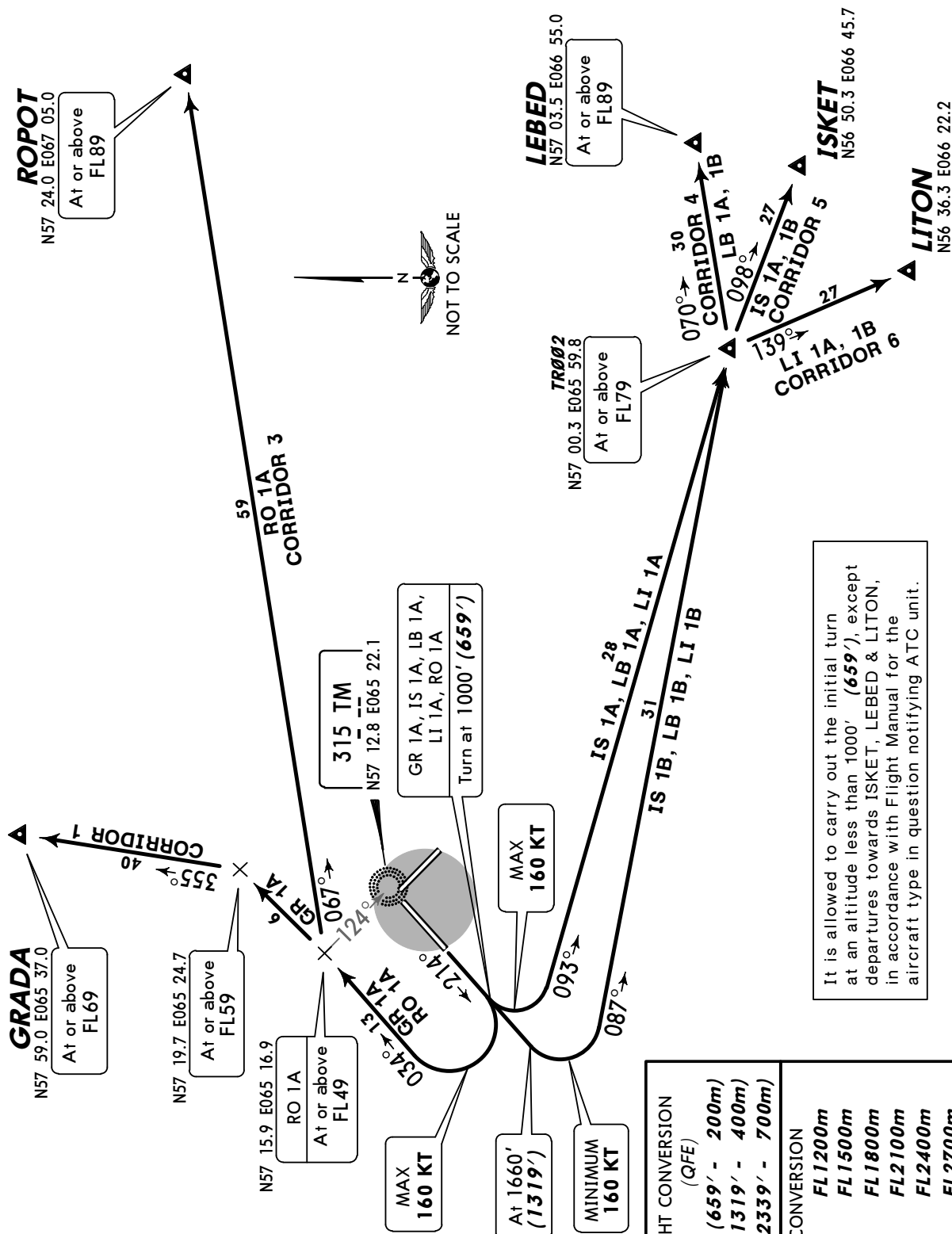
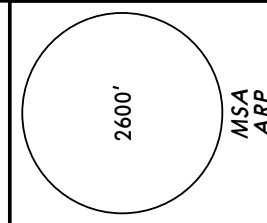
JEPPESSEN
 9 APR 10 **10-3**

TYUMEN, RUSSIA
SID

Apt Elev
377'

QNH on request (QFE)
 Trans level: FL39 Trans alt: 2680' (**2339'**)

GR 1A, IS 1A, IS 1B, LB 1A, LB 1B
LI 1A, LI 1B, RO 1A
RWY 21 DEPARTURES
TO NORTH & EAST



It is allowed to carry out the initial turn at an altitude less than 1000' (**659'**), except departures towards ISKET, LEBED & LITON, in accordance with Flight Manual for the aircraft type in question notifying ATC unit.

ALT/HEIGHT CONVERSION	
QNH	(QFE)
1000'	(659' - 200m)
1660'	(1319' - 400m)
2680'	(2339' - 700m)
FL CONVERSION	
FL39	FL1200m
FL49	FL1500m
FL59	FL1800m
FL69	FL2100m
FL79	FL2400m
FL89	FL2700m

USTR/TJM
 ROSHCHINO

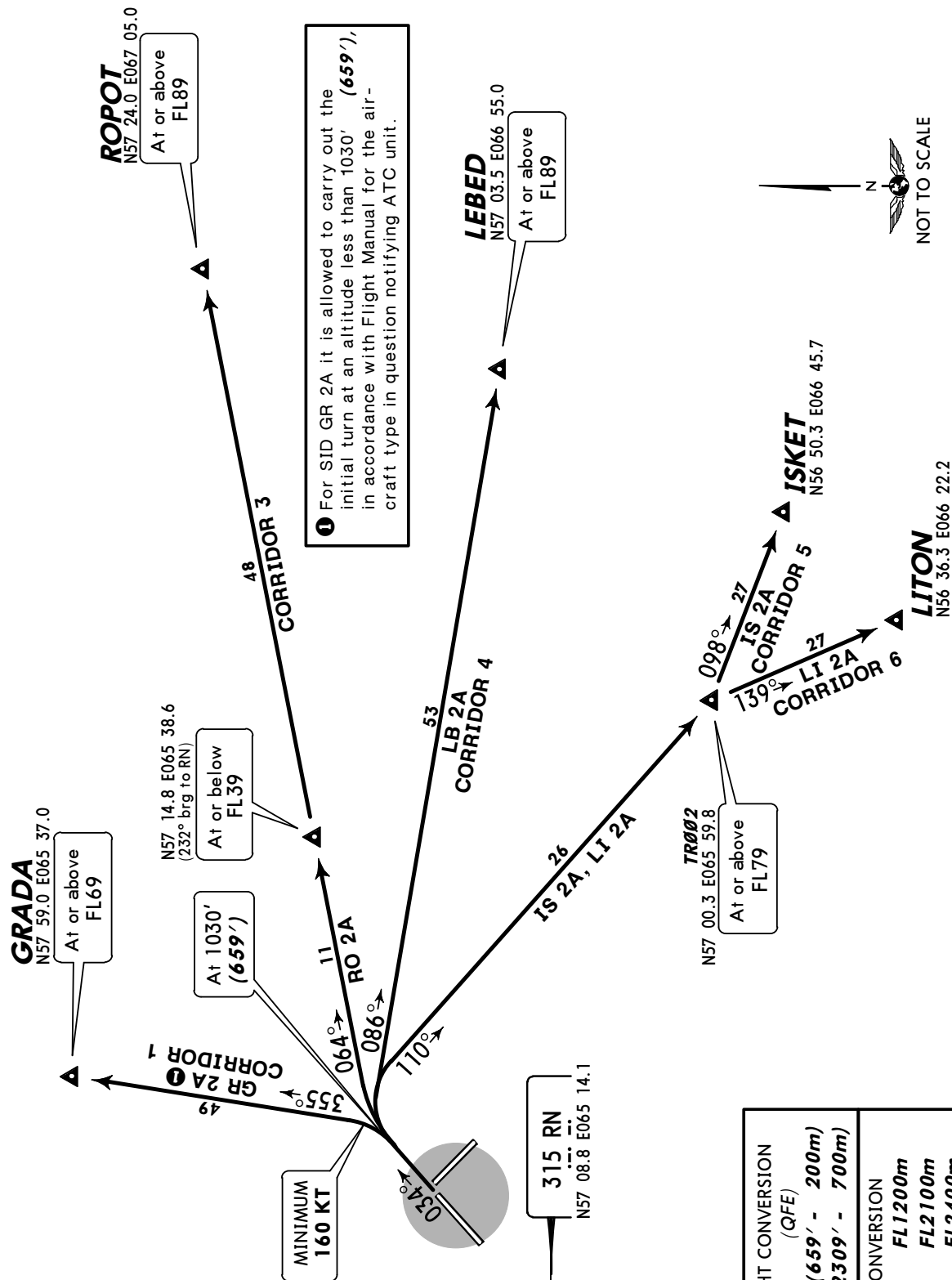
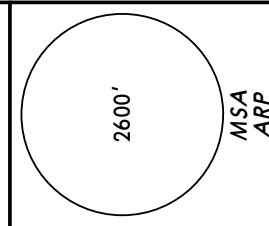
JEPPESSEN
 9 APR 10 **10-3A**

TYUMEN, RUSSIA
SID

Apt Elev
377'

QNH on request (QFE)
 Trans level: FL39 Trans alt: 2680' (**2309'**)

GR 2A ①, IS 2A, LB 2A, LI 2A, RO 2A
RWY 03 DEPARTURES
 TO NORTH & EAST



ALT/HEIGHT CONVERSION QNH (QFE)	FL CONVERSION
1030' (659' - 200m)	FL39 FL1200m
2680' (2309' - 700m)	FL69 FL2100m
	FL79 FL2400m
	FL89 FL2700m

USTR/TJM
ROSHCHINO

JEPPESSEN
9 APR 10 (10-3B)

TYUMEN, RUSSIA
SID

Apt Elev
377'

QNH on request **(QFE)**
Trans level: FL39 Trans alt: 2680' **(2339')**

2600'

MSA
ARP

BN 1A, BN 1B, KE 1A ①, SA 1A ①, SA 1B ①
RWY 21 DEPARTURES
TO SOUTH & WEST

① By ATC.

SALER

N57 49.7 E064 08.4

Between
FL39 & FL157

NOT TO SCALE

It is allowed to carry out the initial turn at an altitude less than 1000' (**659'**), in accordance with Flight Manual for the aircraft type in question notifying ATC unit.

BANAM

N57 07.3 E063 45.3

At or above
FL79

MAX
160 KT

51
BN 1A
CORRIDOR 9

BN 1B
CORRIDOR 9

MINIMUM
160 KT

At 1660'
(1319')

160 KT

BN 1A, KE 1A,
SA 1A

Turn at
1000' (**659'**)

ALT/HEIGHT CONVERSION

QNH	(QFE)
1000'	(659' - 200m)
1660'	(1319' - 400m)
2680'	(2339' - 700m)

FL CONVERSION

FL39	FL1200m
FL59	FL1800m
FL79	FL2400m
FL157	FL4800m

KEGIR
N56 46.5 E065 20.5

At or above
FL59

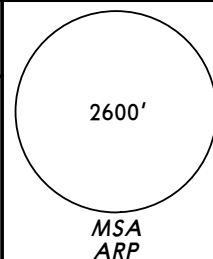
USTR/TJM
ROSHCHINO

JEPPESSEN
 9 APR 10 **(10-3C)**

TYUMEN, RUSSIA
SID

Apt Elev
377'

QNH on request (QFE)
 Trans level: FL39 Trans alt: 2680' **(2309')**



BN 2A, KE 2A ①, KE 2B ①, SA 2A ①, SA 2B ①
RWY 03 DEPARTURES
 TO SOUTH & WEST

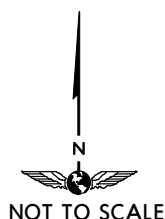
① By ATC.

It is allowed to carry out the initial turn at an altitude less than 1030' **(659')**, in accordance with Flight Manual for the aircraft type in question notifying ATC unit.

② **Warning:** Aircraft with more than 160 KT should execute the initial turn with a radius not more than 1.9 NM.

SALER
 N57 49.7 E064 08.4

TR004
 N57 23.0 E065 01.0
 At or above FL59



BANAM
 N57 07.3 E063 45.3
 At or above FL79

N57 08.3 E065 01.7
 At or above FL59

315 RN
 N57 08.8 E065 14.1

MAX
 160 KT

MINIMUM
 160 KT

At 1030'
(659')

BANAM
 N57 07.3 E063 45.3
 At or above FL79

BN 2A
 CORRIDOR 9

TR003
 N56 58.0 E065 20.0

KEGIR
 N56 46.5 E065 20.5
 At or above FL59

ALT/HEIGHT CONVERSION
 QNH (QFE)
 1030' **(659' - 200m)**
 2680' **(2309' - 700m)**

FL CONVERSION
 FL39 **FL1200m**
 FL59 **FL1800m**
 FL79 **FL2400m**

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9 APR 10

(10-3D)

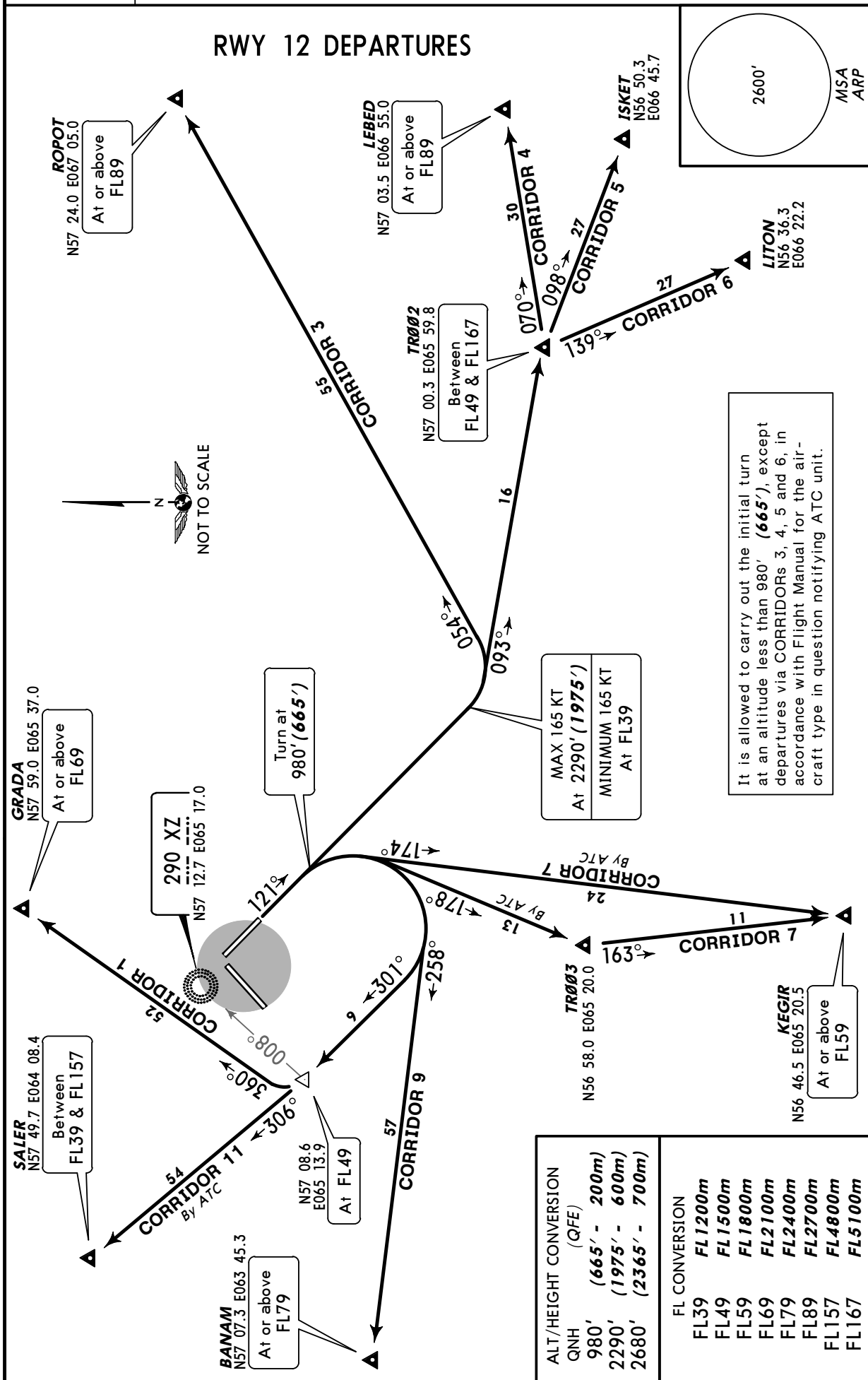
TYUMEN, RUSSIA

SID

Apt Elev
377'

QNH on request **(QFE)**
Trans level: FL39 Trans alt: 2680' **(2365')**

RWY 12 DEPARTURES



CHANGES: Crossings.

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9 APR 10

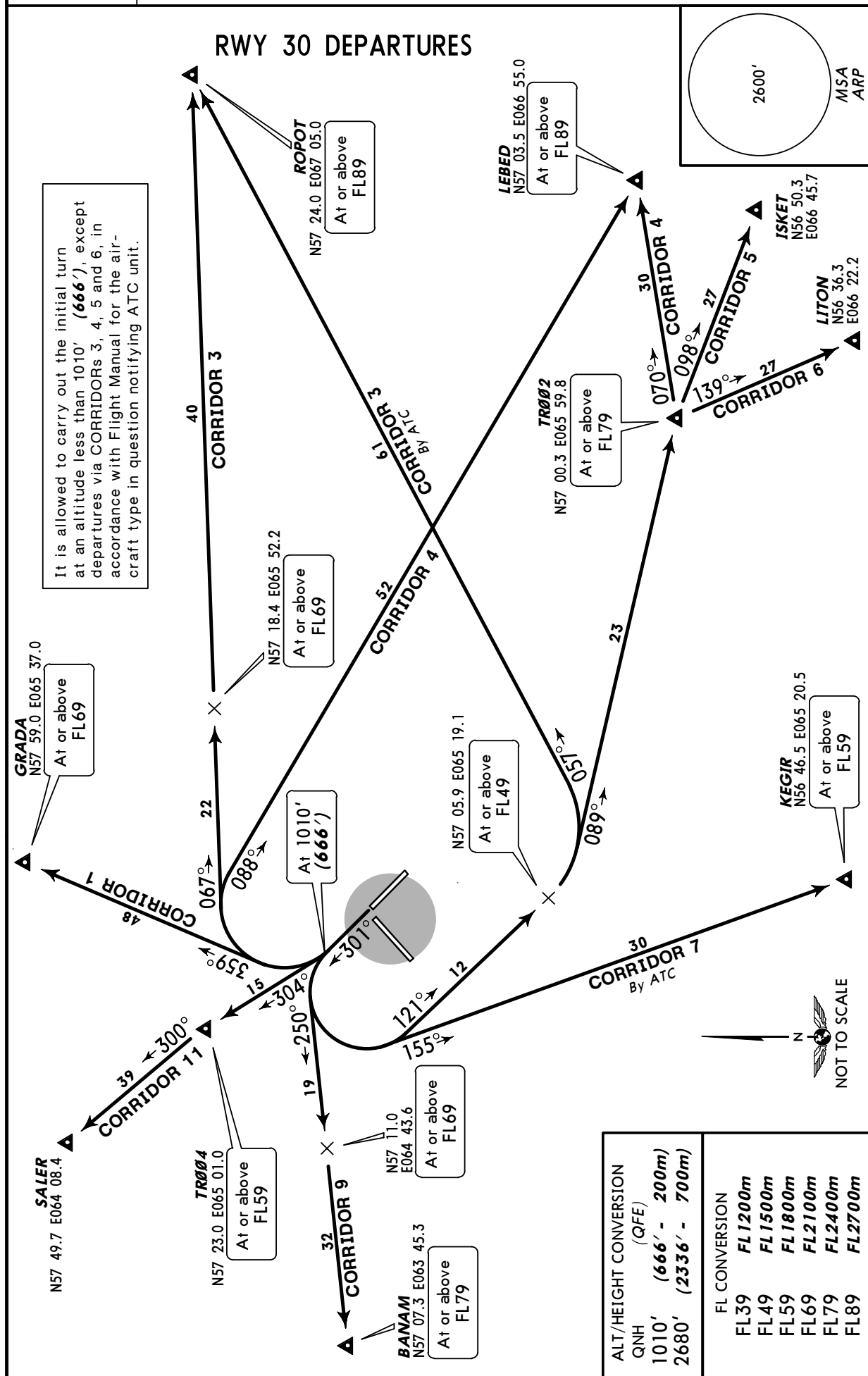
10-3E

TYUMEN, RUSSIA

SID

Apt Elev
377'

QNH on request **(QFE)**
Trans level: FL39 Trans alt: 2680' **(2336')**



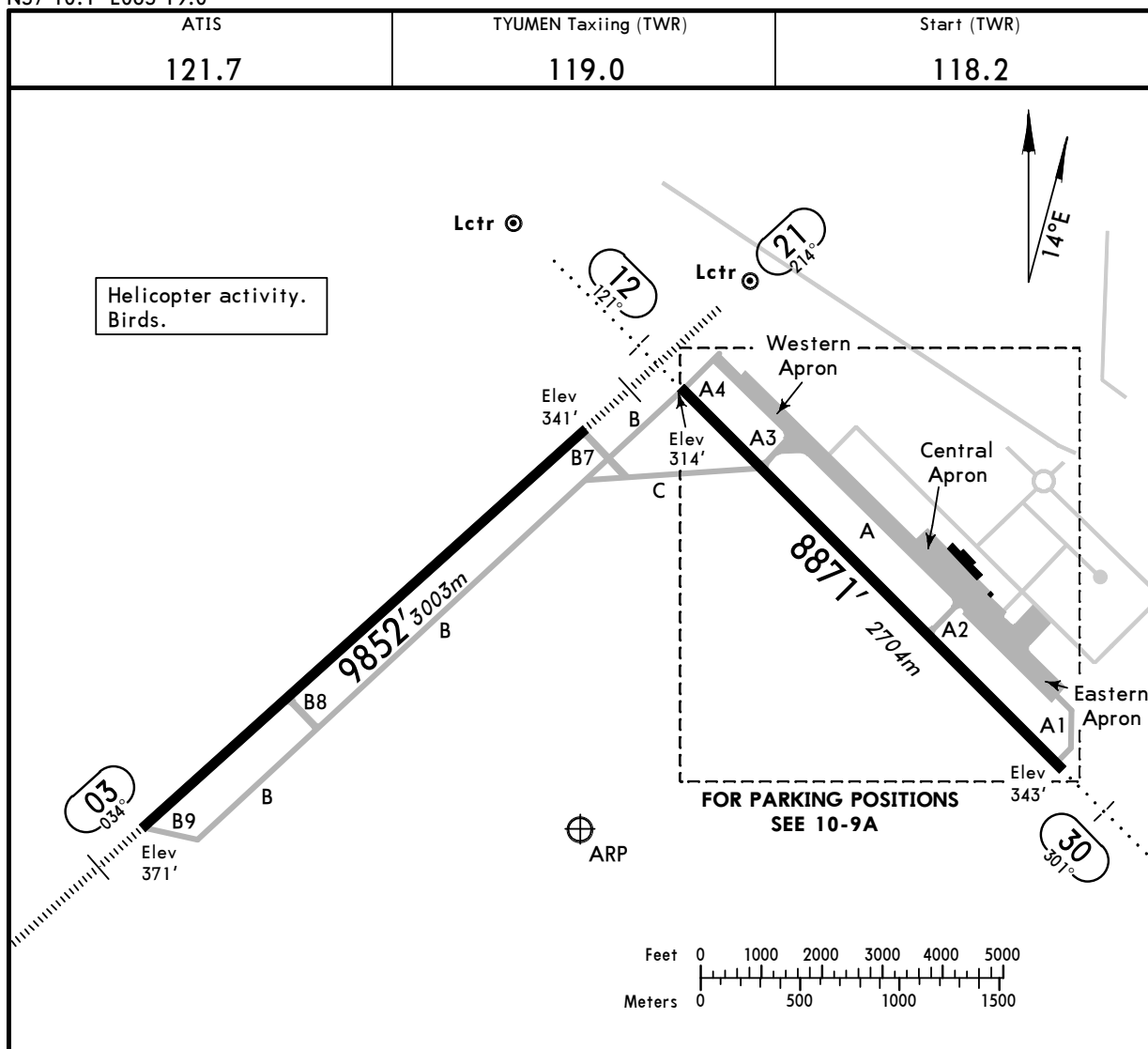
CHANGES: Crossings.

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USTR/TJM
Apt Elev **379'**
N57 10.1 E065 19.0

JEPPESSEN
17 DEC 10 **(10-9)**

TYUMEN, RUSSIA
ROSHCHINO



ADDITIONAL RUNWAY INFORMATION						
RWY					USABLE LENGTHS	
					LANDING BEYOND	WIDTH
					Threshold	
03 21	HIRL (60m)	HIALS	PAPI-L (angle 2.67°)	RVR	8572' 2613m	9524' 2903m ❶
	HIRL (60m)	HIALS	PAPI-L (angle 2.67°)	RVR	8769' 2673m	
12 30	RL (50m)	ALS	PAPI-L (angle 2.67°)	RVR		8543' 2604m ❶
	RL (50m)	ALS	PAPI-L (angle 3.00°)	RVR		

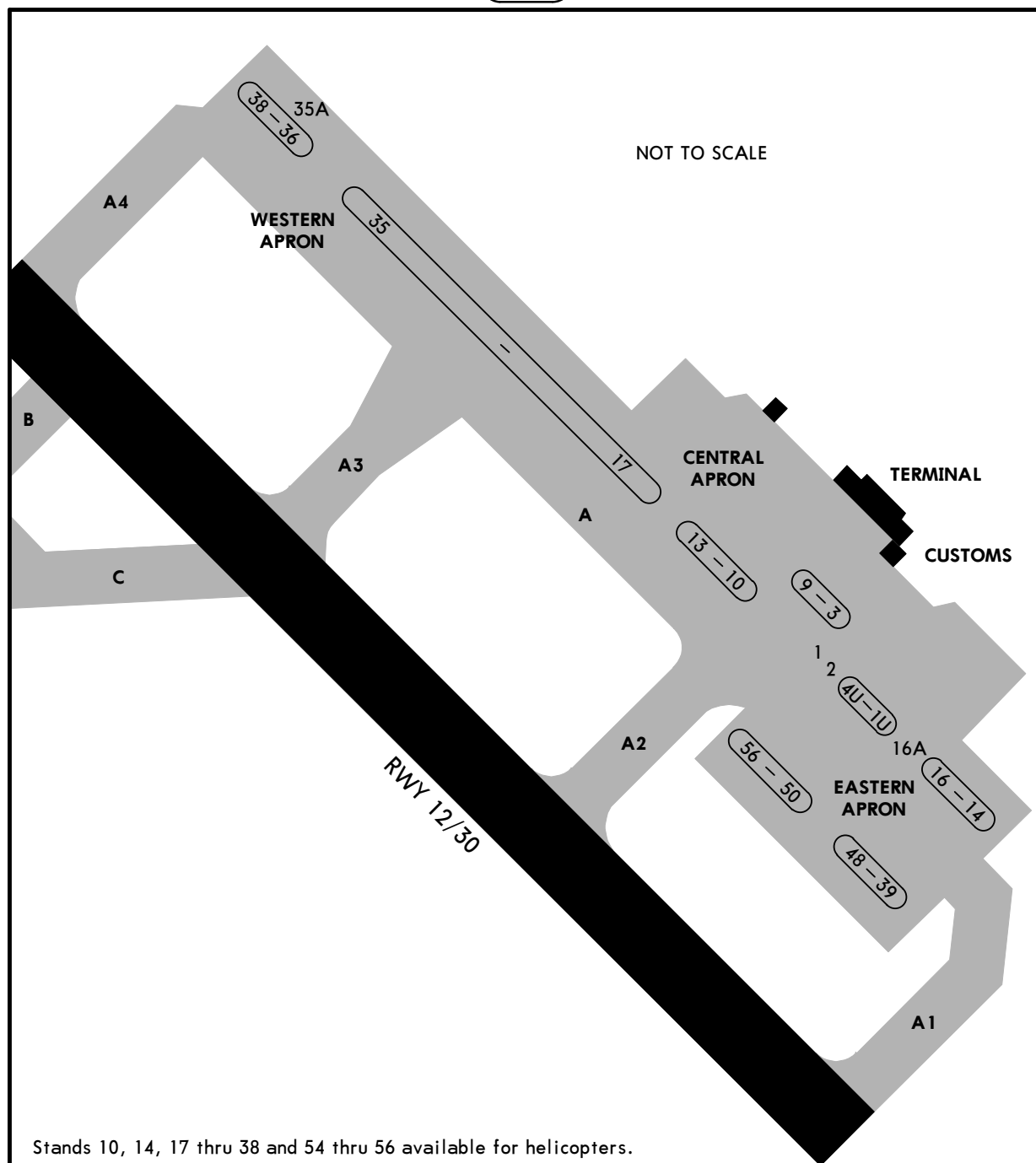
❶ First 328'/100m unusable for take-off.

TAKE-OFF		
AIR CARRIER (JAA)		
All Rwys		
	LVP must be in force RCLM (DAY only) or RL	RCLM (DAY only) or RL
A	250m	400m
B		
C		
D	300m	

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JEPPESEN
 17 DEC 10 (10-9A)

TYUMEN, RUSSIA
 ROSHCINO



INS COORDINATES

STAND No.	COORDINATES	STAND No.	COORDINATES
1	N57 10.7 E065 21.1	35 A	N57 11.3 E065 19.0
2	N57 10.7 E065 21.0	36	N57 11.3 E065 19.9
3	N57 10.8 E065 21.0	37	N57 11.4 E065 19.9
4, 5	N57 10.8 E065 20.0	38	N57 11.4 E065 19.8
6, 7	N57 10.8 E065 20.9	39 thru 41	N57 10.5 E065 21.3
8	N57 10.9 E065 20.9	42	N57 10.6 E065 21.3
9 thru 11	N57 10.9 E065 20.8	43 thru 45	N57 10.6 E065 21.2
12, 13	N57 10.9 E065 20.7	46 thru 49	N57 10.6 E065 21.1
17 thru 19	N57 10.0 E065 20.6	50, 51	N57 10.7 E065 21.0
20 thru 22	N57 11.0 E065 20.5	52 thru 54	N57 10.7 E065 20.0
23 thru 25	N57 11.1 E065 20.4	55	N57 10.7 E065 20.9
26 thru 28	N57 11.1 E065 20.3	56	N57 10.8 E065 20.9
29 thru 31	N57 11.2 E065 20.2		
32, 33	N57 11.2 E065 20.1		
34 thru 35	N57 11.3 E065 20.0		

USTR/TJM


JEPPESEN
11 FEB 11 **10-9S**
Standard
TYUMEN, RUSSIA
ROSHCHINO

STRAIGHT-IN RWY		A	B	C	D
03	ILS	571' (200')	571' (200')	571' (200')	571' (200')
	<i>FULL</i>	R550m	R550m	R550m	R550m
	<i>Limited</i>	R750m	R750m	R750m	R750m
	<i>ALS out</i>	R1200m	R1200m	R1200m	R1200m
	LOC	NOT AUTHORIZED	NOT AUTHORIZED	NOT AUTHORIZED	NOT AUTHORIZED
	RNAV ①	680' (309')	680' (309')	680' (309')	680' (309')
12	<i>ALS out</i>	R750m R1400m	R750m R1400m	R750m R1400m	R750m R1400m
	NDB ①	730' (359')	730' (359')	730' (359')	730' (359')
	<i>ALS out</i>	R1000m R1600m	R1000m R1600m	R1200m R1600m	R1200m R1600m
	RNAV ①	660' (346')	660' (346')	660' (346')	660' (346')
	<i>ALS out</i>	R1400m R1500m	R1400m R1500m	R1400m R1600m	R1400m R1600m
	NDB ①	670' (356')	670' (356')	670' (356')	670' (356')
21	<i>ALS out</i>	R1400m R1600m	R1400m R1600m	R1400m R1600m	R1400m R1600m
	ILS	541' (200')	541' (200')	541' (200')	541' (200')
	<i>FULL</i>	R550m	R550m	R550m	R550m
	<i>Limited</i>	R750m	R750m	R750m	R750m
	<i>ALS out</i>	R1200m	R1200m	R1200m	R1200m
	LOC	NOT AUTHORIZED	NOT AUTHORIZED	NOT AUTHORIZED	NOT AUTHORIZED
30	RNAV ①	650' (309')	650' (309')	650' (309')	650' (309')
	<i>ALS out</i>	R750m R1400m	R750m R1400m	R750m R1400m	R750m R1400m
	NDB ①	700' (359')	700' (359')	700' (359')	700' (359')
	<i>ALS out</i>	R1000m R1600m	R1000m R1600m	R1200m R1600m	R1200m R1600m
	RNAV ①	710' (366')	710' (366')	710' (366')	710' (366')
	<i>ALS out</i>	R1500m R1500m	R1500m R1500m	R1500m R1700m	R1500m R1700m
30	NDB	1050' (706')	1050' (706')	1050' (706')	1050' (706')
	<i>ALS out</i>	C3300m C3500m	C3300m C3500m	C3500m C3700m	C3500m C3700m

① Continuous Descent Final Approach.

TAKE-OFF RWY 03, 12, 21, 30

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		

USTR/TJM

 **JEPPESEN**
17 DEC 10 **(10-9X)****JAA MINIMUMS**
TYUMEN, RUSSIA
RÓSHCHINO

STRAIGHT-IN RWY		A	B	C	D
03	ILS	571' (200')	571' (200')	571' (200')	571' (200')
		R550m	R550m	R550m	R550m
	<i>ALS out</i>	R1000m	R1000m	R1000m	R1000m
	LOC	NOT AUTHORIZED	NOT AUTHORIZED	NOT AUTHORIZED	NOT AUTHORIZED
	RNAV	680' (309')	680' (309')	680' (309')	680' (309')
		R900m	R1000m	R1000m	R1400m
12	<i>ALS out</i>	R1500m	R1500m	R1800m	R2000m
	2 NDB	680' (309')	680' (309')	680' (309')	680' (309')
		R900m	R1000m	R1000m	R1400m
	<i>ALS out</i>	R1500m	R1500m	R1800m	R2000m
	RNAV	660' (346')	660' (346')	660' (346')	660' (346')
		R1300m	R1400m	R1600m	R1800m
21	<i>ALS out</i>	R1500m	R1500m	R1800m	R2000m
	2 NDB	640' (326')	640' (326')	640' (326')	640' (326')
		R1300m	R1400m	R1600m	R1800m
	<i>ALS out</i>	R1500m	R1500m	R1800m	R2000m
	ILS	541' (200')	541' (200')	541' (200')	541' (200')
		R550m	R550m	R550m	R550m
30	<i>ALS out</i>	R1000m	R1000m	R1000m	R1000m
	LOC	NOT AUTHORIZED	NOT AUTHORIZED	NOT AUTHORIZED	NOT AUTHORIZED
	RNAV	650' (309')	650' (309')	650' (309')	650' (309')
		R900m	R1000m	R1000m	R1400m
	<i>ALS out</i>	R1500m	R1500m	R1800m	R2000m
	2 NDB	670' (329')	670' (329')	670' (329')	670' (329')
30	<i>ALS out</i>	R1500m	R1500m	R1800m	R2000m
	RNAV	710' (367')	710' (367')	710' (367')	710' (367')
		R1300m	R1400m	R1600m	R1800m
	<i>ALS out</i>	R1500m	R1500m	R1800m	R2000m
	NDB	1050' (707')	1050' (707')	1050' (707')	1050' (707')
		R1500m	R1500m	R2000m	R2000m

TAKE-OFF RWY 03, 12, 21, 30

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		

USTR/TJM
ROSHCHINO

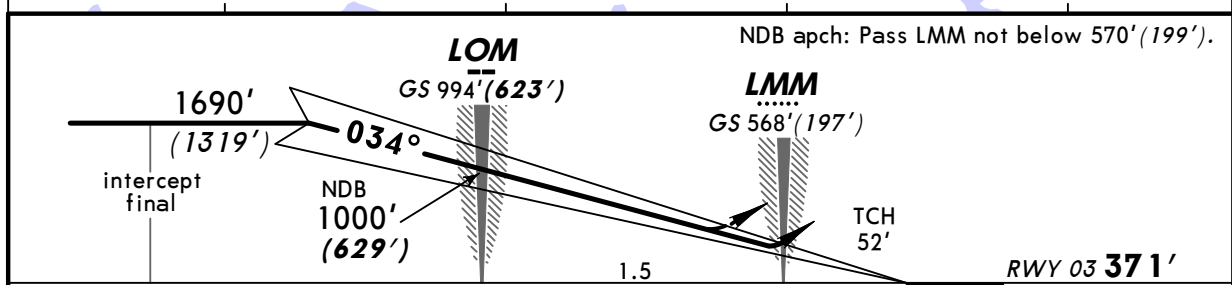
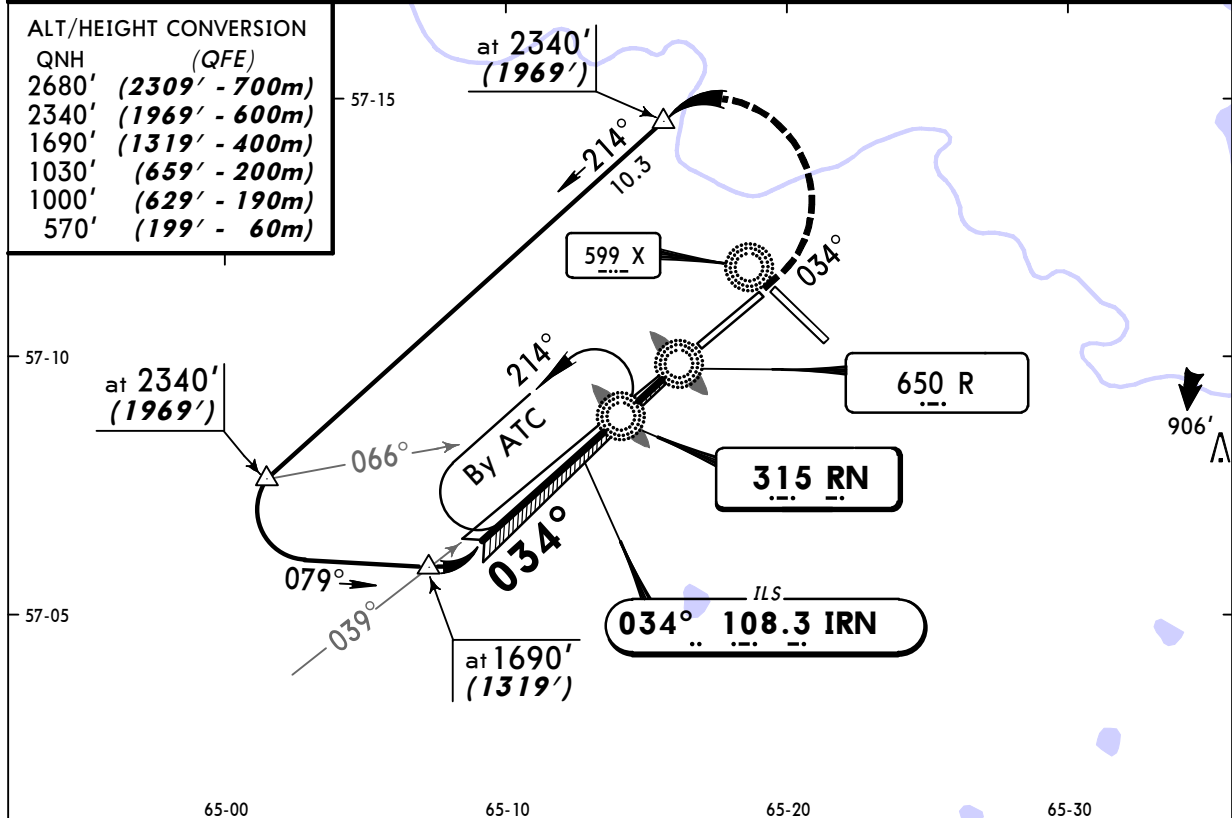
JEPPesen
17 DEC 10 (11-1)

TYUMEN, RUSSIA
ILS or 2 NDB Rwy 03

BRIEFING STRIP

ATIS 121.7		TYUMEN Approach 126.1		TYUMEN Krug (SRE) 120.4		TYUMEN Start (PAR/TWR) 118.2		Ground 119.0				
LOC IRN 108.3	Final Apch Crs 034°		GS LOM 994' (623')	ILS DA(H) 571' (200')	Apt Elev 379' RWY 371'		2600'					
NDB RN 315			Minimum Alt LOM 1000' (629')	NDB MDA(H) 680' (309')								
MISSED APCH: Climb on 034° to 1030' (659'), then turn LEFT onto 214° climbing to 2340' (1969'), then according to chart.										MSA ARP		
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: FL 39		Trans alt: 2680' (2309')						

ALT/HEIGHT CONVERSION	
QNH (QFE)	
2680' (2309' - 700m)	
2340' (1969' - 600m)	
1690' (1319' - 400m)	
1030' (659' - 200m)	
1000' (629' - 190m)	
570' (199' - 60m)	



Gnd speed-Kts	70	90	100	120	140	160	HIALS	1030' (659') on 034°	214°	2340' (1969')
ILS GS or NDB Desc angle 2.67°	336	433	481	577	673	769	PAPI		LT	

STRAIGHT-IN LANDING RWY 03					
ILS		LOC (GS out)		NDB	
DA(H) 571' (200')				MDA(H) 680' (309')	
FULL	ALS out				ALS out
A					
B					
C	RVR 720m VIS 800m	NOT AUTHORIZED		1200m	RVR 1500m VIS 1600m
D					
				RVR 1500m VIS 1600m	

PANS OPS

USTR/TJM
ROSHCHINO

JEPPESSEN
17 DEC 10 **(11-2)**

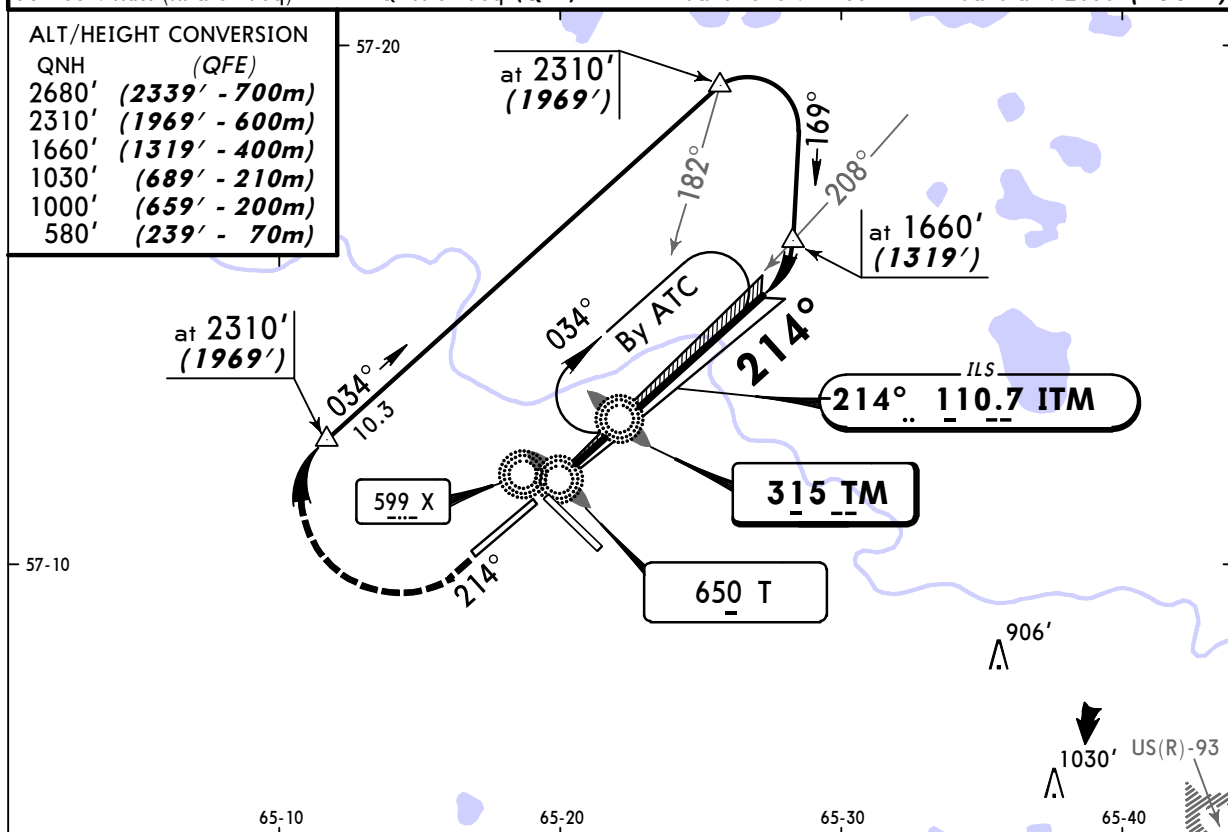
TYUMEN, RUSSIA
ILS or 2 NDB Rwy 21

BRIEFING STRIP

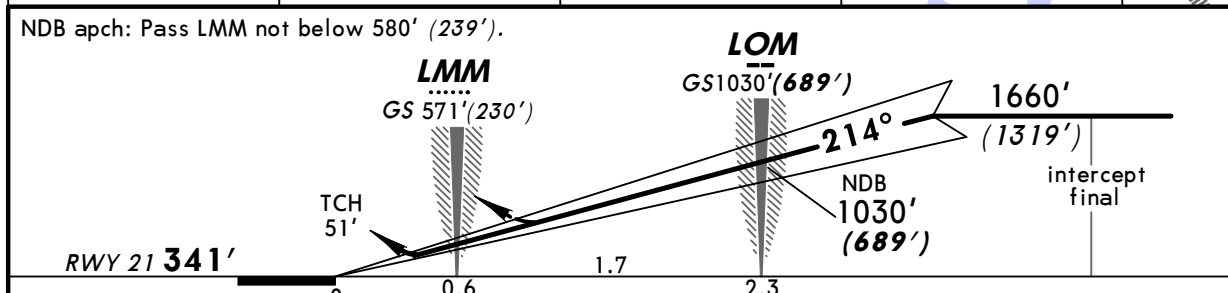
ATIS 121.7		TYUMEN Approach 126.1		TYUMEN Krug (SRE) 120.4		TYUMEN Start (PAR/TWR) 118.2		Ground 119.0	
LOC ITM 110.7		Final Apch Crs 214°	GS/ Minimum Alt LOM 1030' (689')	ILS DA(H) 541' (200')		Apt Elev 379'	RWY 341'	2600'	
NDB TM 315				NDB MDA(H) 670' (329')					
MISSED APCH: Climb on 214° to 1000' (659'), then turn RIGHT onto 034° climbing to 2310' (1969'), then according to chart.									MSA ARP
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: FL 39		Trans alt: 2680' (2339')			

ALT/HEIGHT CONVERSION

QNH	(QFE)
2680'	(2339' - 700m)
2310'	(1969' - 600m)
1660'	(1319' - 400m)
1030'	(689' - 210m)
1000'	(659' - 200m)
580'	(239' - 70m)



NDB apch: Pass LMM not below 580' (239').



Gnd speed-Kts	70	90	100	120	140	160	HIALS	1000' (659') on 214°	034° RT	2310' (1969')
ILS GS 2.67° or NDB Desc Grad 4.7%	336	433	481	577	673	769	PAPI			

STRAIGHT-IN LANDING RWY 21

	ILS		LOC (GS out)	NDB	
	DA(H) 541' (200')	ALS out		MDA(H) 670' (329')	ALS out
A					
B					
C	RVR 720m VIS 800m	1200m	NOT AUTHORIZED	1200m	RVR 1500m VIS 1600m
D				RVR 1500m VIS 1600m	

PANS OPS

CHANGES: Apt elev. TCH.

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USTR/TJM
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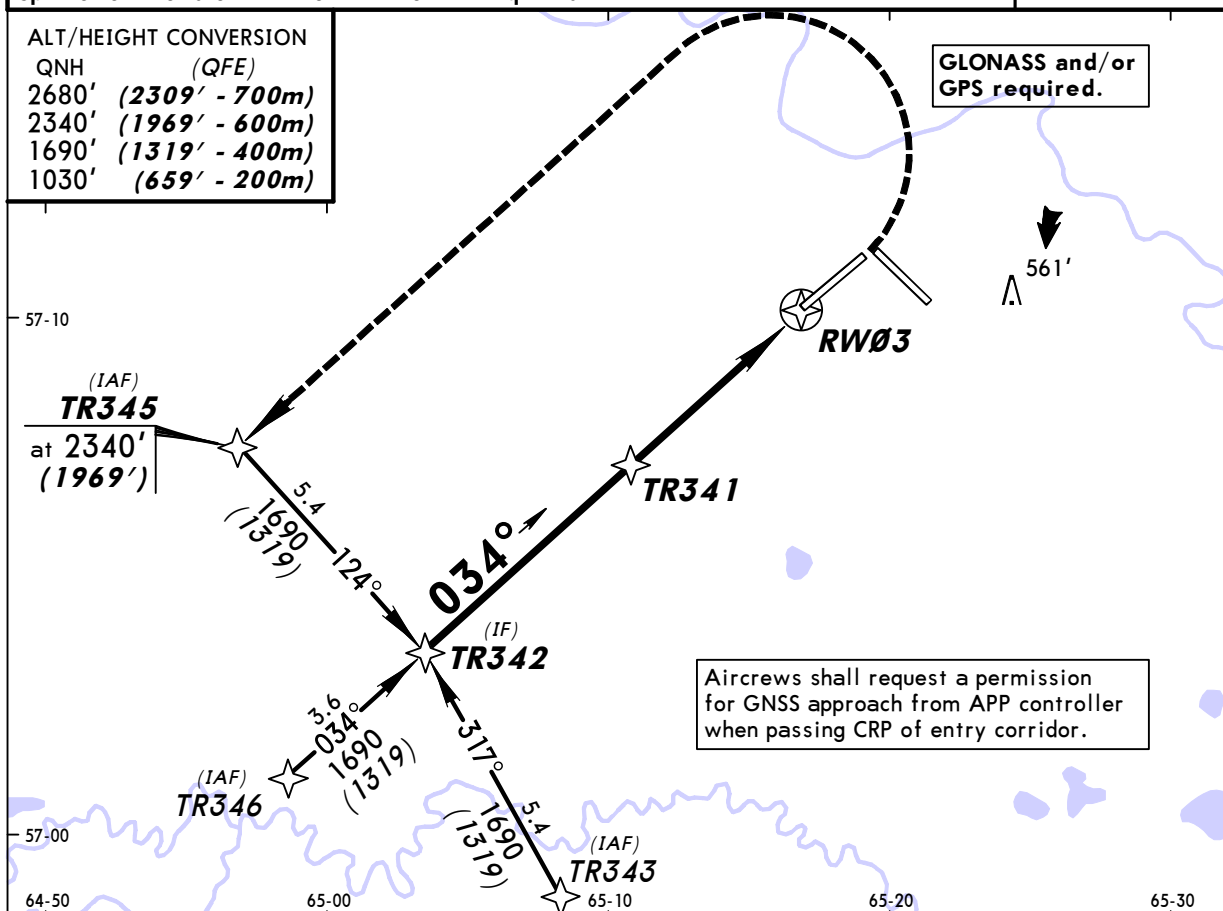
JEPPesen
17 DEC 10 (12-1)

TYUMEN, RUSSIA
RNAV (GNSS) Rwy 03

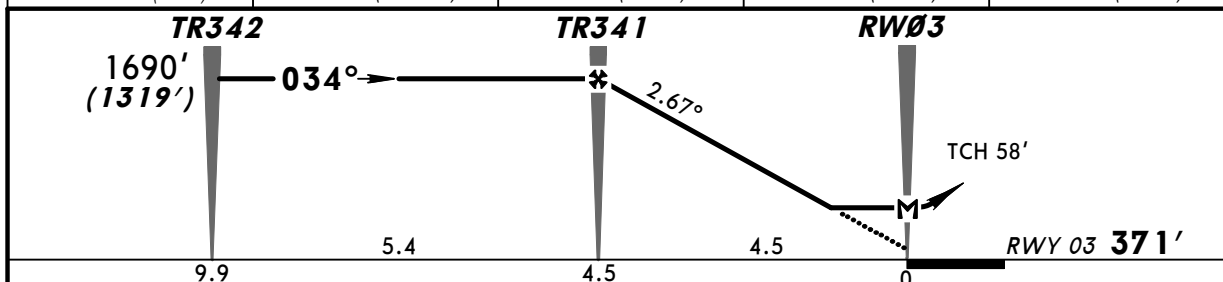
BRIEFING STRIP

ATIS 121.7	TYUMEN Approach 126.1	TYUMEN Krug (SRE) 120.4	TYUMEN Start (PAR/TWR) 118.2	Ground 119.0
RNAV	Final Apch Crs 034°	Minimum Alt TR341 1690' (1319')	MDA(H) 680' (309')	Apt Elev 379' RWY 371'
MISSED APCH: Climb STRAIGHT AHEAD to 1030' (659'), then turn LEFT to proceed to TR345 climbing to 2340' (1969'), then according to chart.				
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 39 Trans alt: 2680' (2309') Special acft and aircrew authorization required.				
				2600' MSA ARP

ALT/HEIGHT CONVERSION
QNH (QFE)
2680' (2309' - 700m)
2340' (1969' - 600m)
1690' (1319' - 400m)
1030' (659' - 200m)



DIST to RW03	4.3	3.2	2.2	1.1
ALTITUDE (HAT)	1650' (1279')	1340' (969')	1050' (679')	740' (369')



Gnd speed-Kts	70	90	100	120	140	160		HIALS	1030' (659')	TR345	2340' (1969')
Descent angle 2.67°	331	425	472	567	661	756		PAPI	↑	LT	↑
MAP at RW03											

STRAIGHT-IN LANDING RWY 03											
MDA(H) 680' (309')											
						ALS out					
A											
B											
C	1200m					RVR 1500m VIS 1600m					
D						RVR 1500m VIS 1600m					

PANS OPS

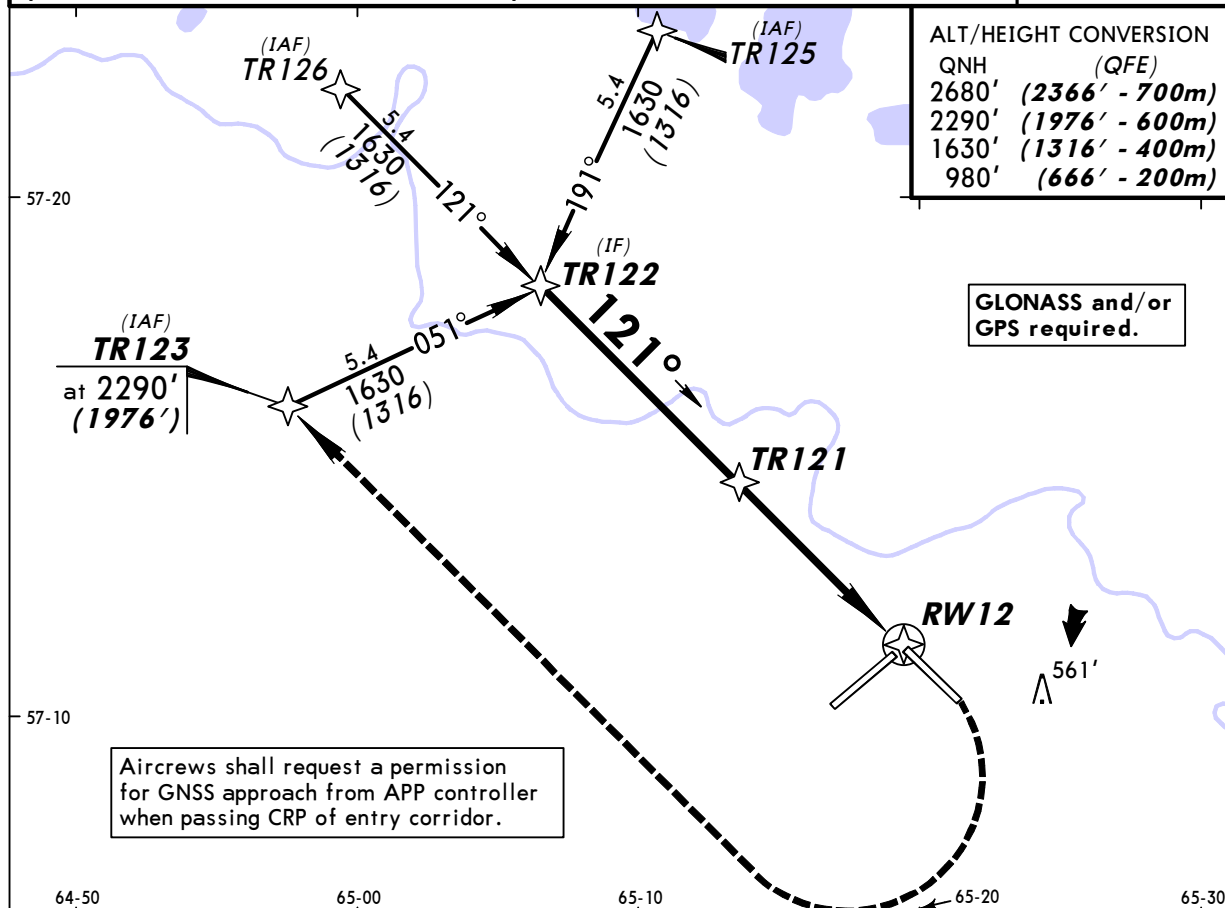
USTR/TJM
ROSHCHINO

JEPPesen
17 DEC 10 (12-2)

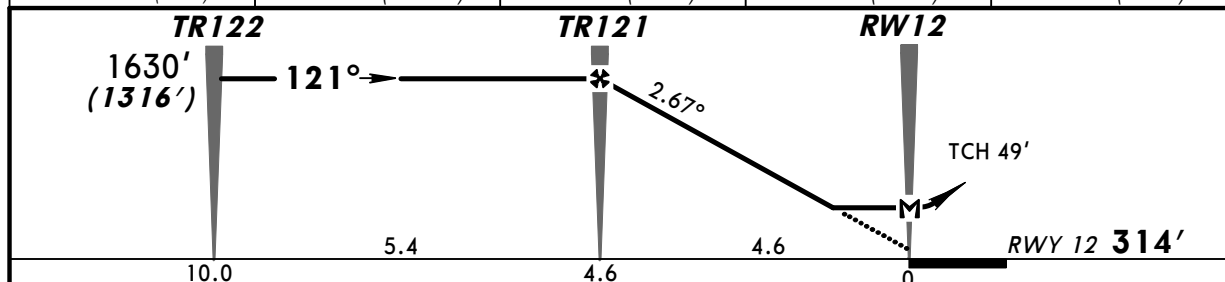
TYUMEN, RUSSIA
RNAV (GNSS) Rwy 12

BRIEFING STRIP

ATIS 121.7	TYUMEN Approach 126.1	TYUMEN Krug (SRE) 120.4	TYUMEN Start (PAR/TWR) 118.2	Ground 119.0
RNAV	Final Apch Crs 121°	Minimum Alt TR121 1630' (1316')	MDA(H) 660' (346')	Apt Elev 379' RWY 314'
MISSED APCH: Climb STRAIGHT AHEAD to 980' (666'), then turn RIGHT to proceed to TR123 climbing to 2290' (1976'), then according to chart.				
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 39 Trans alt: 2680' (2366') Special acft and aircrew authorization required.				
				2600' MSA ARP



DIST to RW12	4.3	3.2	2.2	1.1
ALTITUDE (HAT)	1600' (1286')	1290' (976')	990' (676')	680' (366')



Gnd speed-Kts	70	90	100	120	140	160	ALS	980' (666')	TR123	2290' (1976')
Descent angle 2.67°	331	425	472	567	661	756	PAPI		RT	
MAP at RW12										

STRAIGHT-IN LANDING RWY 12										
MDA(H) 660' (346')										
ALS out										

PANS OPS

A	RVR 1500m VIS 1600m
B	
C	
D	RVR 1800m VIS 2000m

USTR/TJM
ROSHCHINO

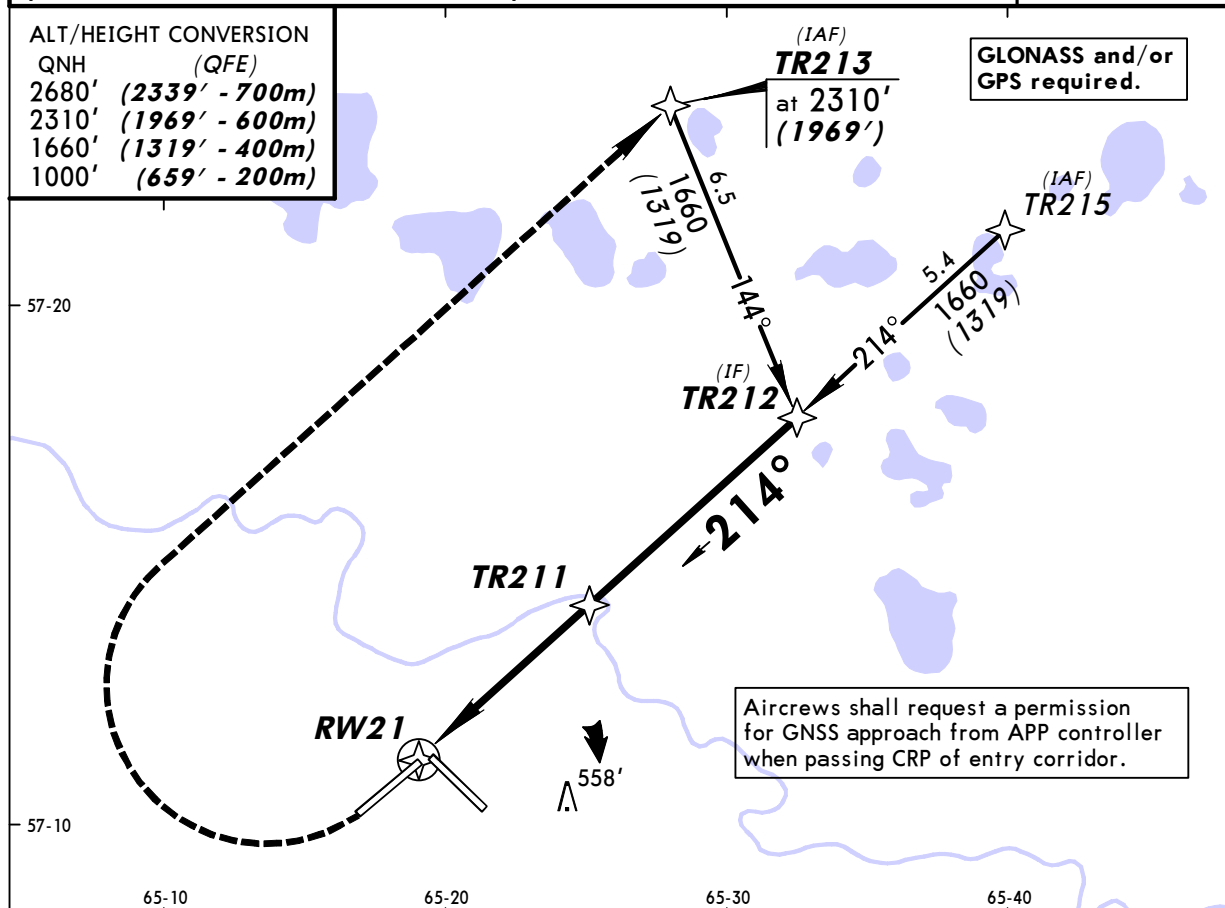
JEPPesen
17 JUL 09 (12-3) Eff 30 Jul

TYUMEN, RUSSIA
RNAV (GNSS) Rwy 21

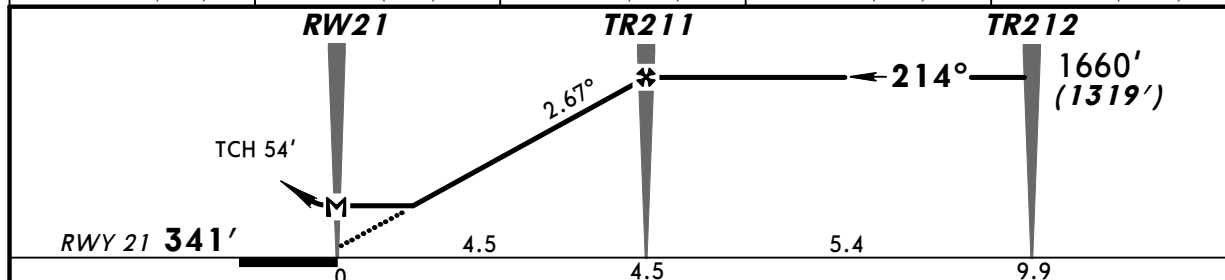
BRIEFING STRIP

ATIS 121.7	TYUMEN Approach 126.1	TYUMEN Krug (SRE) 120.4	TYUMEN Start (PAR/TWR) 118.2	Ground 119.0
RNAV	Final Apch Crs 214°	Minimum Alt TR211 1660' (1319')	MDA(H) 650' (309')	Apt Elev 377' RWY 341'
MISSED APCH: Climb STRAIGHT AHEAD to 1000' (659'), then turn RIGHT to proceed to TR213 climbing to 2310' (1969'), then according to chart.				
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 39 Trans alt: 2680' (2339') Special acft and aircrew authorization required.				
				2600' MSA ARP

ALT/HEIGHT CONVERSION
QNH (QFE)
2680' (2339' - 700m)
2310' (1969' - 600m)
1660' (1319' - 400m)
1000' (659' - 200m)



DIST to RW21	1.1	2.2	3.2	4.3
ALTITUDE (HAT)	710' (369')	1020' (679')	1310' (969')	1630' (1289')



Gnd speed-Kts	70	90	100	120	140	160	HIALS	1000' (659')	TR213	2310' (1969')
Descent angle 2.67°	331	425	472	567	661	756	PAPI	↑	RT	↑
MAP at RW21										

STRAIGHT-IN LANDING RWY 21

MDA(H) 650' (309')

ALS out

PANS OPS

A		
B	RVR 720m VIS 800m	RVR 1500m VIS 1600m
C		
D	RVR 1500m VIS 1600m	

USTR/TJM
ROSHCHINO

JEPPesen
17 JUL 09 **(12-4)** **Eff 30 Jul**

TYUMEN, RUSSIA
RNAV (GNSS) Rwy 30

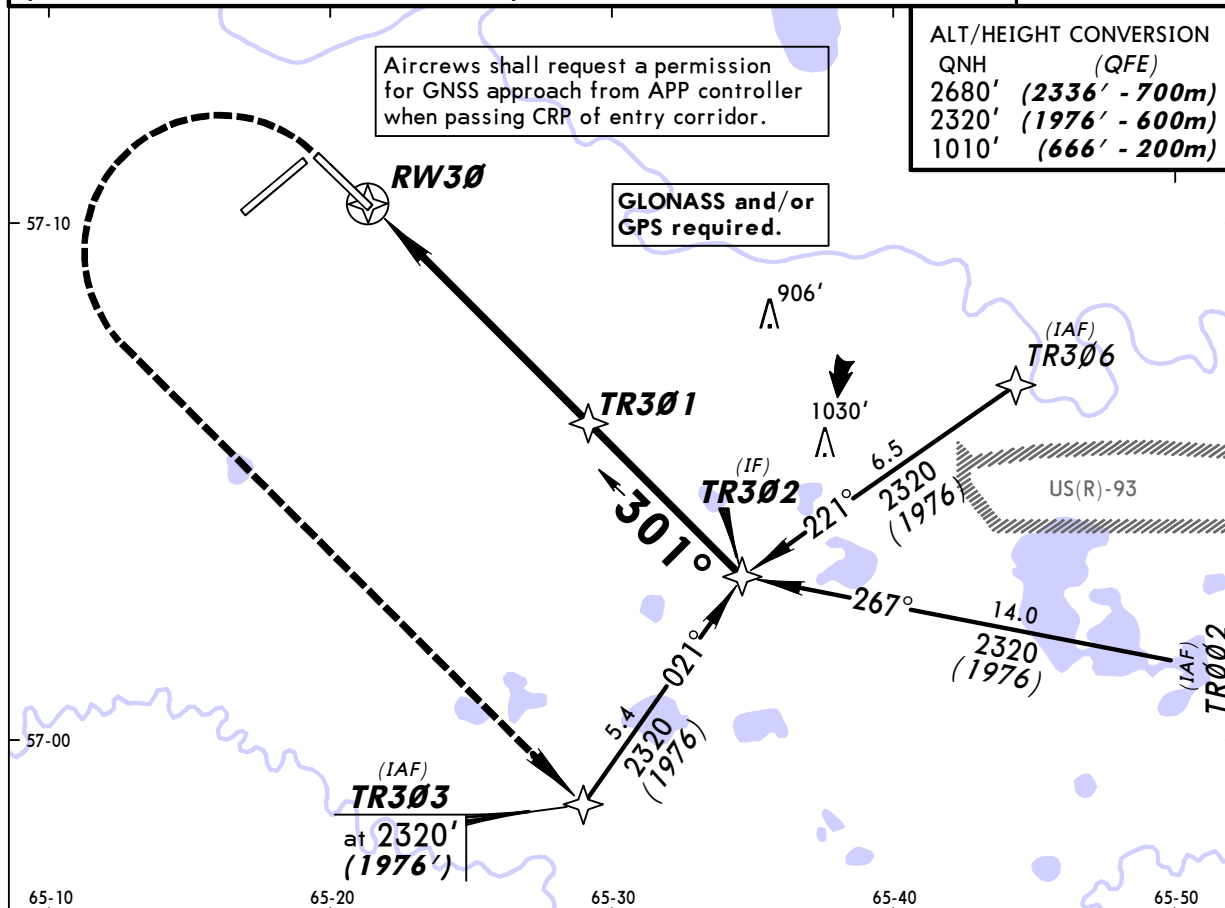
BRIEFING STRIP

ATIS 121.7	TYUMEN Approach 126.1	TYUMEN Krug (SRE) 120.4	TYUMEN Start (PAR/TWR) 118.2	Ground 119.0
RNAV	Final Apch Crs 301°	Minimum Alt TR301 2320' (1976')	MDA(H) 710' (366')	Apt Elev 377' RWY 344'
MISSED APCH: Climb STRAIGHT AHEAD to 1010' (666'), then turn LEFT to proceed to TR303 climbing to 2320' (1976'), then according to chart.				
Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 39 Trans alt: 2680' (2336') Special acft and aircrew authorization required.				
				2600' MSA ARP

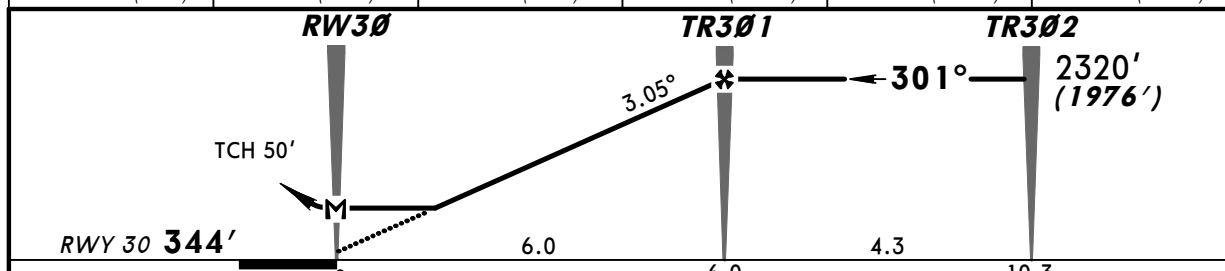
Aircrews shall request a permission for GNSS approach from APP controller when passing CRP of entry corridor.

ALT/HEIGHT CONVERSION
QNH (**QFE**)
2680' (**2336' - 700m**)
2320' (**1976' - 600m**)
1010' (**666' - 200m**)

GLONASS and/or GPS required.



DIST to RW30	1.1	2.2	3.2	4.3	5.4
ALTITUDE (HAT)	740' (396')	1090' (746')	1430' (1086')	1780' (1436')	2120' (1776')



Gnd speed-Kts	70	90	100	120	140	160	ALS	1010' (666')	TR303	2320' (1976')
Descent angle 3.05°	378	486	540	648	755	863	PAPI	↑	LT	↑
MAP at RW30										

STRAIGHT-IN LANDING RWY 30

MDA(H) **710' (366')**

ALS out

PANS OPS

A	
B	RVR 1500m VIS 1600m
C	
D	RVR 1800m VIS 2000m

USTR/TJM
ROSHCHINO

JEPPESEN
7 DEC 07 **(16-1)** **Eff 20 Dec**

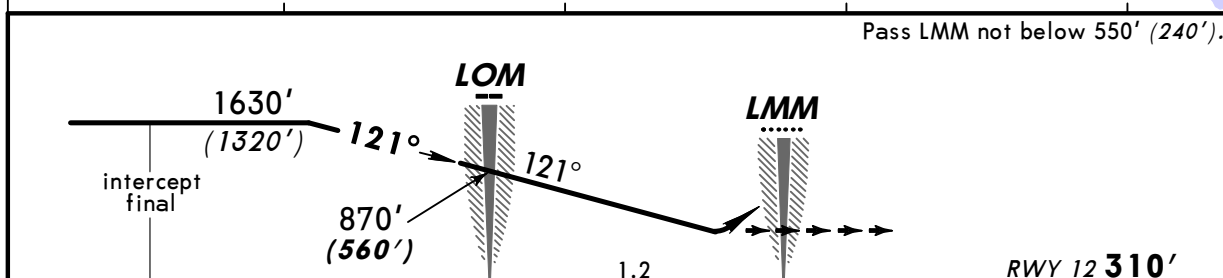
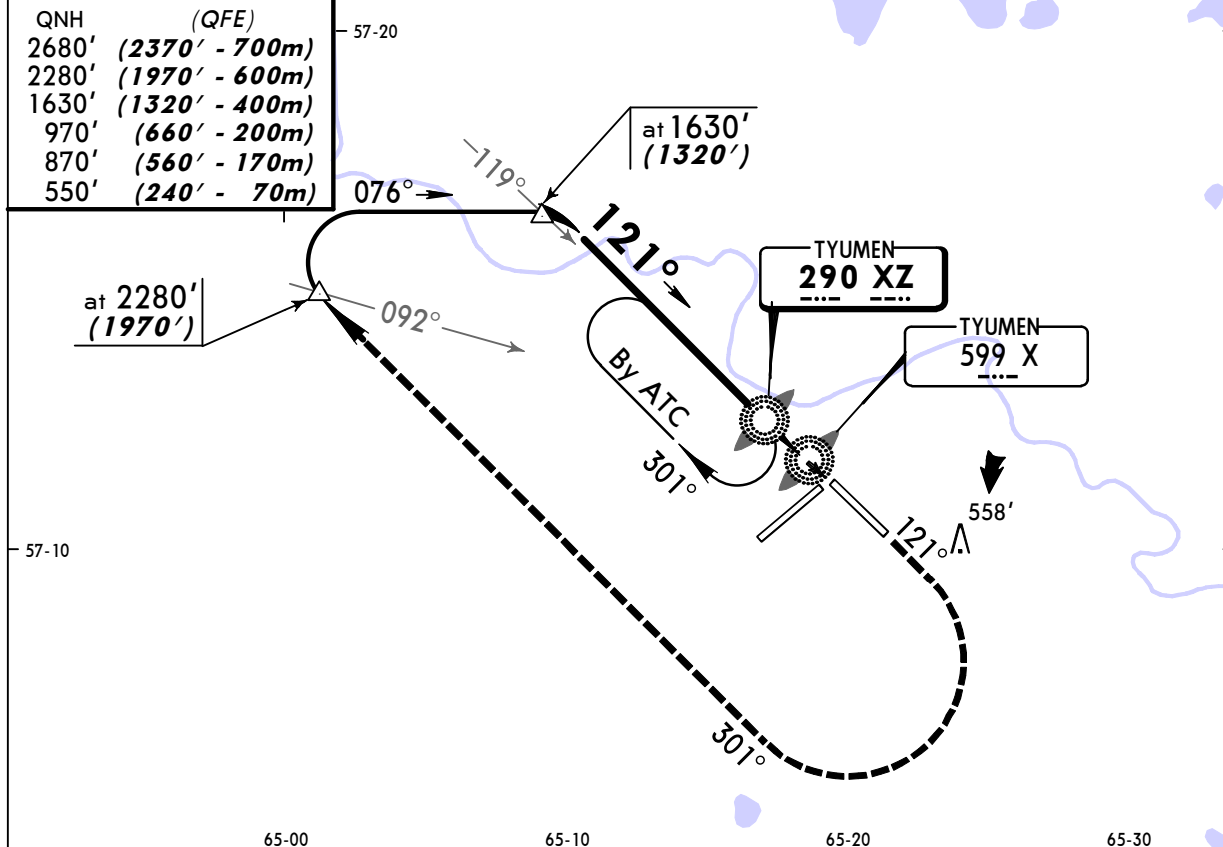
TYUMEN, RUSSIA
2 NDB Rwy 12

BRIEFING STRIP

ATIS	TYUMEN Approach	TYUMEN Krug (SRE)	TYUMEN Start (PAR/TWR)	Ground
121.7	126.1	120.4	118.2	119.0
NDB XZ 290	Final Apch Crs 121°	Minimum Alt LOM 870' (560')	MDA(H) 640' (330')	Apt Elev 378' RWY 310'
MISSED APCH: Climb on 121° to 970' (660'), then turn RIGHT onto 301° climbing to 2280' (1970'), then according to chart.				2600' MSA ARP
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: FL 39
				Trans alt: 2680' (2370')

ALT/HEIGHT CONVERSION

QNH	(QFE)
2680'	(2370' - 700m)
2280'	(1970' - 600m)
1630'	(1320' - 400m)
970'	(660' - 200m)
870'	(560' - 170m)
550'	(240' - 70m)



Gnd speed-Kts	70	90	100	120	140	160
Descent Gradient 4.7%	333	428	476	571	666	762

STRAIGHT-IN LANDING RWY 12			
MDA(H) 640' (330')			
		ALS out	
A	RVR 1500m VIS 1600m		
B			
C			
D			

PANS OPS

USTR/TJM
ROSHCHINO

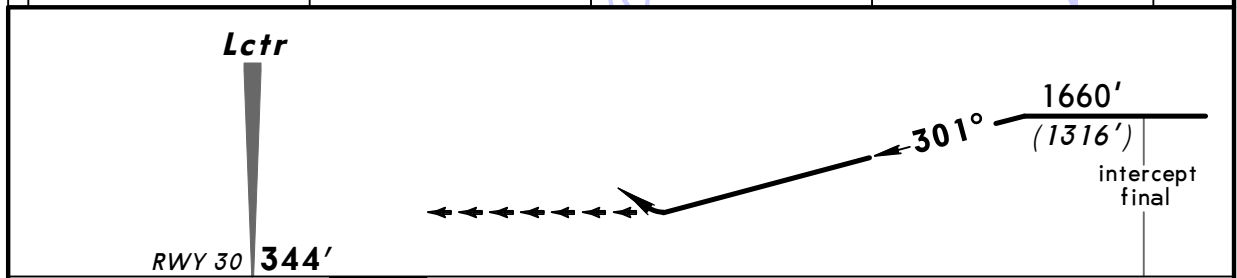
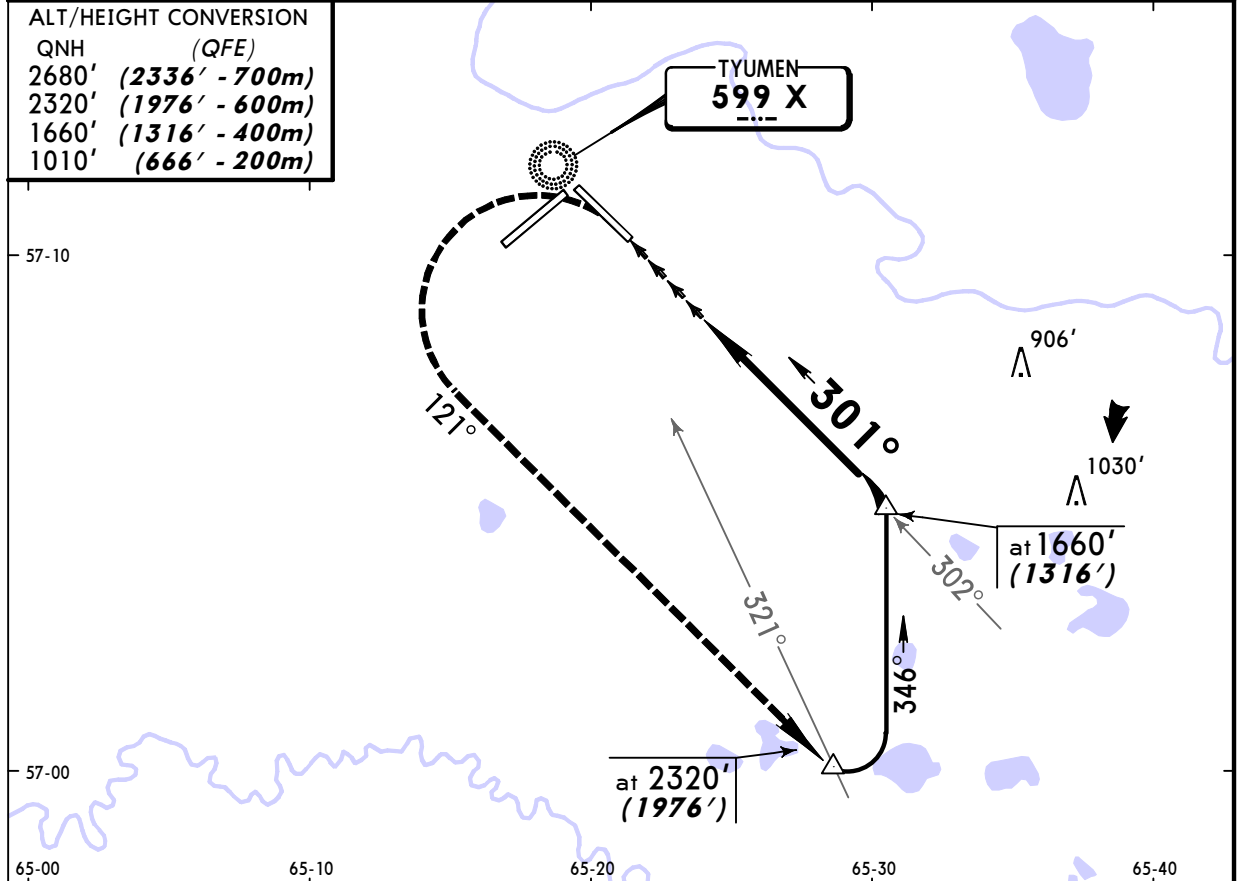
JEPPesen
7 DEC 07 **(16-2)** Eff 20 Dec

TYUMEN, RUSSIA
NDB Rwy 30

BRIEFING STRIP

ATIS	TYUMEN Approach	TYUMEN Krug (SRE)	TYUMEN Start (PAR/TWR)	Ground
121.7	126.1	120.4	118.2	119.0
Lctr X 599	Final Apch Crs 301°	Minimum Alt No FAF	MDA(H) 1050' (706') Apt Elev 378' RWY 344'	2600' MSA ARP
MISSED APCH: Turn LEFT onto 121° climbing to 2320' (1976'), then according to chart.				
Alt Set: MM (hPa on req)	QNH on req (QFE)	Trans level: FL 39	Trans alt: 2680' (2336')	

ALT/HEIGHT CONVERSION	
QNH	(QFE)
2680'	(2336' - 700m)
2320'	(1976' - 600m)
1660'	(1316' - 400m)
1010'	(666' - 200m)



Gnd speed-Kts	70	90	100	120	140	160	ALS	121°	2320' (1976')
Descent Gradient 5.2%	369	474	527	632	737	843		LT	

STRAIGHT-IN LANDING RWY 30					
MDA(H) 1050'(706')					
		ALS out			
A	3200m				
B					
C					
D	3600m				

PANS OPS