

GENERAL**Operational Hours****ATS Hours / AD OPS Hours:** H24**AD ADMIN Hours:** MON-FRI 0500-1345, SAT/SUN/HOL CLSD**Airport Information****RFF:** CAT 7**Fuel:** TS-1**PCN:** RWY 13/31: 41/R/B/X/T**Customs:** 0500-1700, other times O/R**Operation****Traffic Note**

Charter flights O/R.

A320: mass limitation up to 74.5t / 164244 lbs.

Low Visibility Procedure

LVP in force when RVR below 550m.

Report LDG and RWY vacation.

During LVP only one ACFT allowed in the maneuvering area.

RWY Restriction

180° turns allowed on RWY turn pads at joints with TWY A and E or by PIC decision, at any place of RWY with TWR permission.

TWY Restrictions

TWY A, B, D, E width 21m / 69ft.

TWY F width 7m / 23ft.

TWY F towing mandatory.

Taxi/Parking

Taxi onto stands by marshaller. When ACFT not parked according markings inform TWR.

Stands 2, 4, 6, 8 facing NW: Taxiing out for B735 and smaller ACFT under own ENG PWR, other ACFT types by towing.

During winter COND taxi-line on APN may not be visible, taxiing onto stands from TWY C by marshaller instructions.

Warning

Birds in vicinity of AD.

ARRIVAL**Communication**

COM Failure: See CRAR addition;

In case of radio COM failure after the entry into TMA the crew shall continue the flight at last assigned flight level cleared by the controller towards LOM of landing heading. Descending and approach for landing shall be executed according to wide rectangular approach traffic pattern at estimated time of arrival or as close as possible to this time.

If required, on a pilot-in-commands decision, ACFT may proceed along the route to the ALTN AD indicated in the flight plan without radio COM at one of FL140, FL150, FL240, FL250 established for flights without radio COM, depending on flight direction.

Arrival Procedure**Non-standard GP intercept position on****RWY 13**

GP intercepts RWY 13 at 308m / 1011ft after landing threshold.

Remaining DIST beyond GP is 2192m / 7191ft.

RWY 31

GP intercepts RWY 31 at 320m / 1049ft after landing threshold.

Remaining DIST beyond GP is 2180m / 7153ft.

DEPARTURE**Take-off Minima**

RWY		13/31	
All ACFT	ft - m/km	0 - 400R/400V	HJ only
		0 - 800R/800V	HN

Communication

COM Failure: See CRAR and in addition;

In case of radio COM failure after TKOF the crew shall continue climbing to aerodrome traffic circuit height and fly according to instrument APCH pattern and depending on meteorological conditions and ACFT landing weight land or proceed to ALTN AD.

If required, on a pilot-in-commands decision, ACFT may proceed along the route to the ALTN AD indicated in the flight plan without radio COM at one of FL140, FL150, FL240, FL250 established for flights without radio COM, depending on flight direction.

Departure Procedure

If unable to reach FL assigned for the DEP corridor, climb according to the established rectangular traffic pattern by ATC instruction.

De-Icing

AVBL

MMK-ULMM

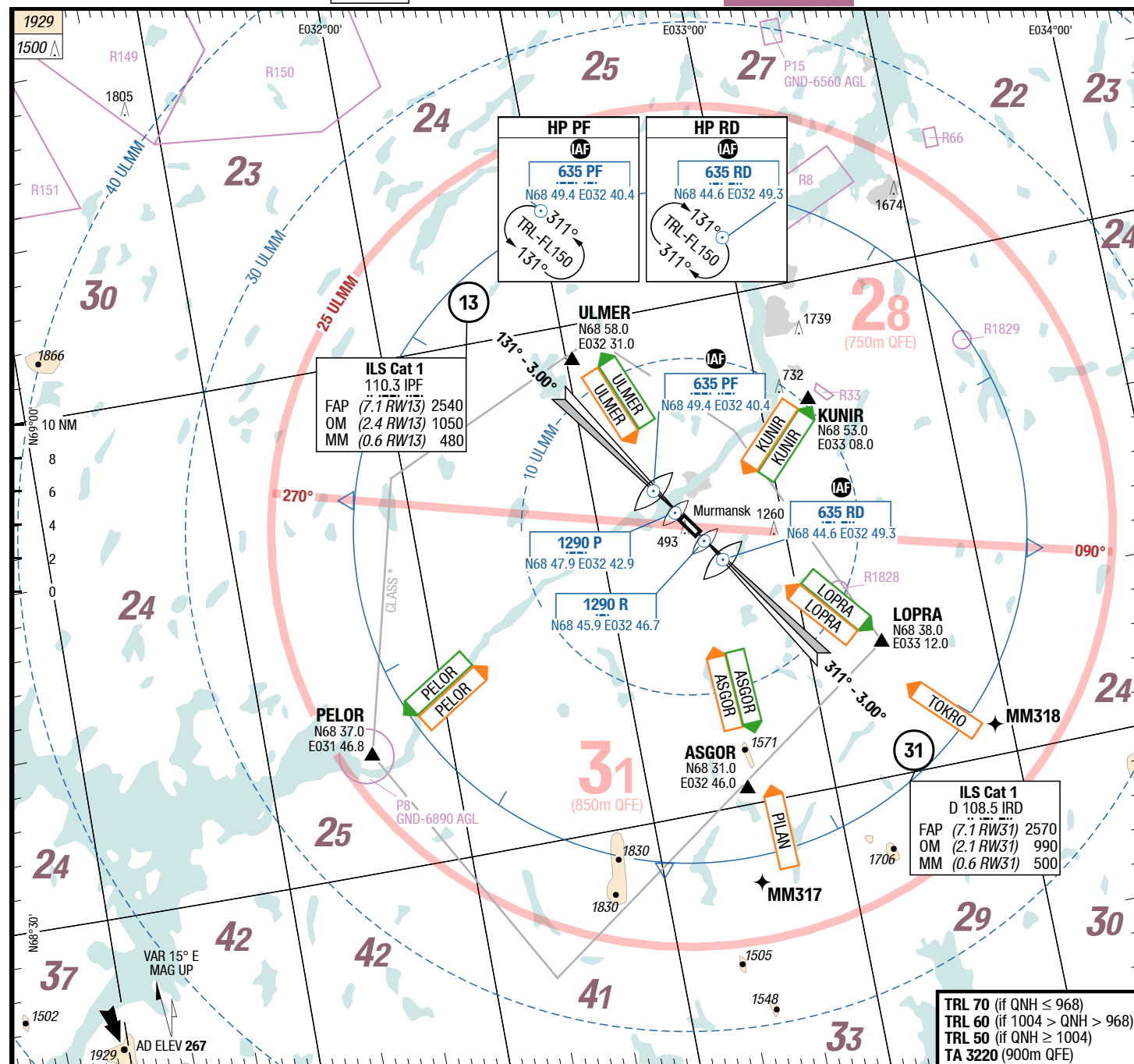
AFC

AFC

AFC

AFC

2-10



ATIS	127.400
CTL	132.100
TWR	120.300
Transit	131.900

Landing RWY system:

Changes: Nil

18-JUN-2015

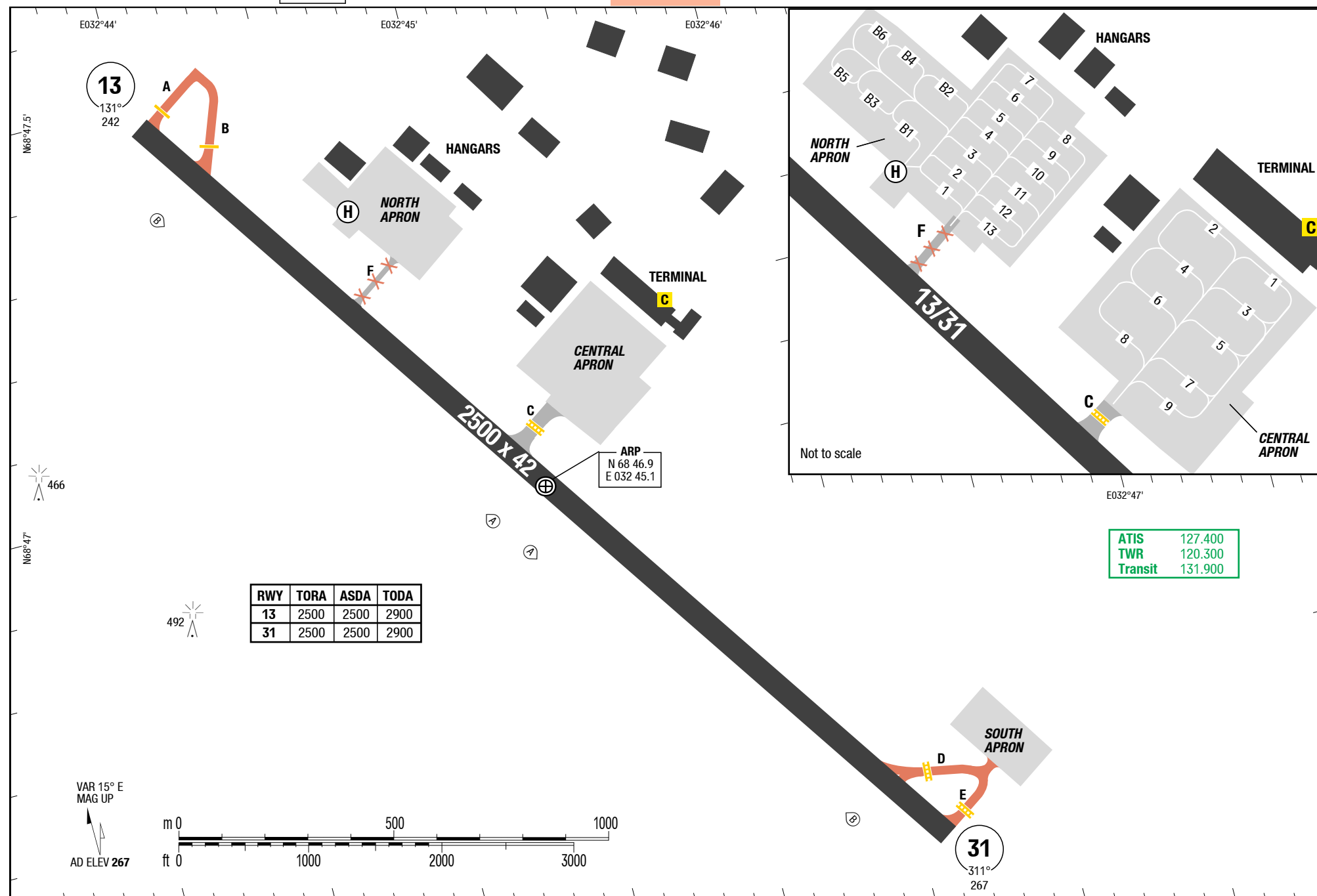
MMK-ULMM

Russian Federation **Murmansk**

AGC

AGC

AGC

Murmansk Russian Federation**AGC**

Changes: TWY line Central Apron

07-FEB-2013
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Russian Federation **Murmansk**
[RNAV SIDs RWY 31]
4-10
RNAV SIDs RWY 13

SID
SID

Murmansk Russian Federation
[RNAV SIDs RWY 31]
RNAV SIDs RWY 13

CTL 132.100
TWR 120.300

28
(750m QFE)

ULMER
FL150
FL80
N68 58.0
E032 31.0

KUNIR
FL150
FL80
N68 53.0
E033 08.0

CLASS *

ULMER 5

KUNIR 5

MM134
5170

Murmansk

493 137° 640

MM137
1890

LOPRA 5

LOPRA
FL150
FL160

PELOR 5

ASGOR 5

ASGOR
FL150
FL60
N68 31.0
E032 46.0

31
(850m QFE)

MSA
28
(750m QFE)
-270° -090°
31
(850m QFE)
-25 ULMM

Reference THR RWY 13			
m	ft	QFE	QNH
1500	5170	1500	5170
500	1890	500	1890
120	640	120	640

Warning:
If unable to reach the FL assigned for the departure corridor, aircraft shall climb according to the established rectangular traffic pattern by ATC controller's instruction.

SIDPT No procedure text published RWY 13 (131°)							
	GS	120	150	180	210	240	270
4.9 % to 640	ft/MIN	600	800	900	1100	1200	1400

VAR 15° E
MAG UP

AD ELEV 267

TRL 70 (if QNH ≤ 968)
TRL 60 (if 1004 > QNH > 968)
TRL 50 (if QNH ≥ 1004)
TA 3220 (900m QFE)

07-FEB-2013

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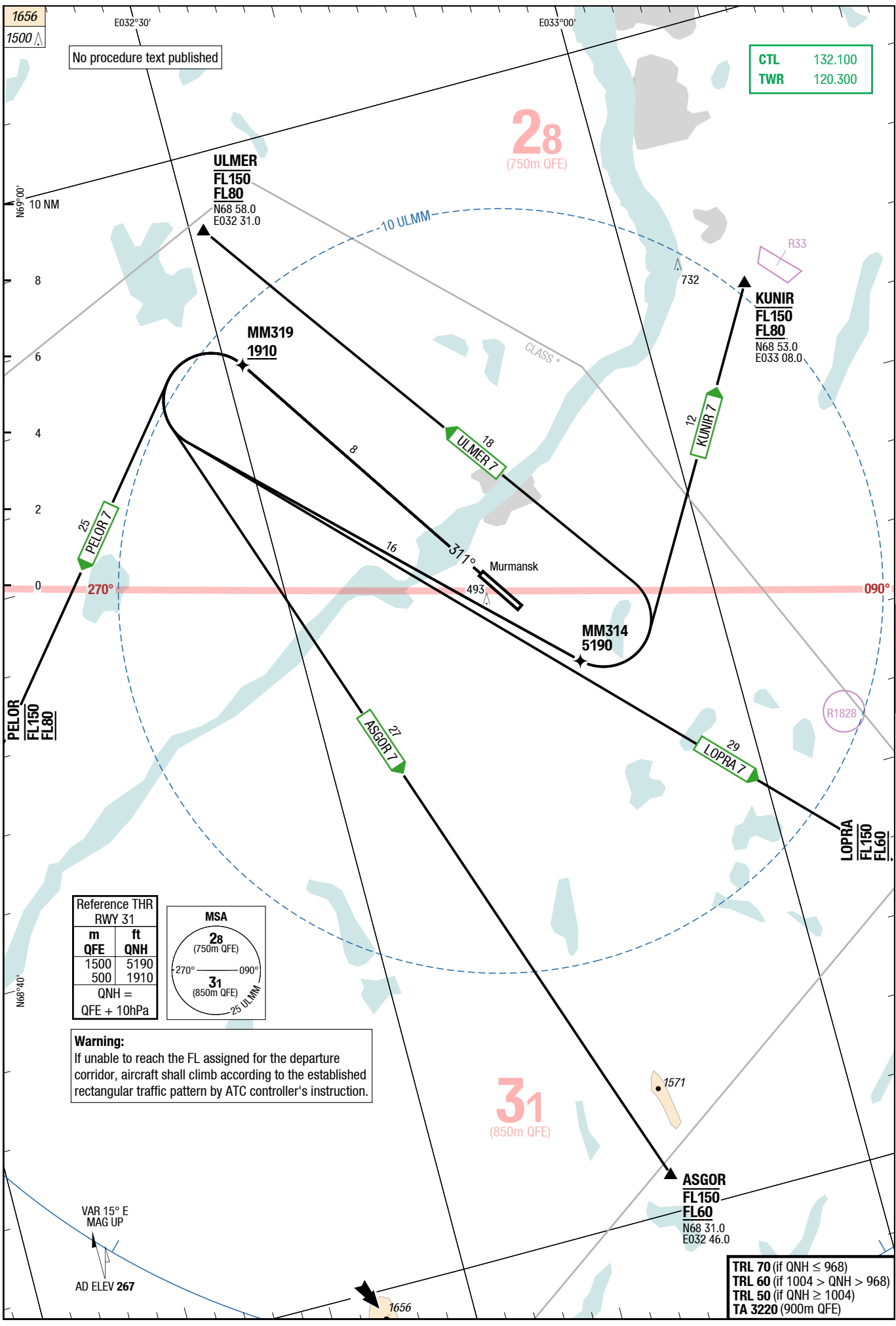
RNAV SIDs RWY 31

SID
SID

Murmansk Russian Federation

RNAV SIDs RWY 31

Changes: Note

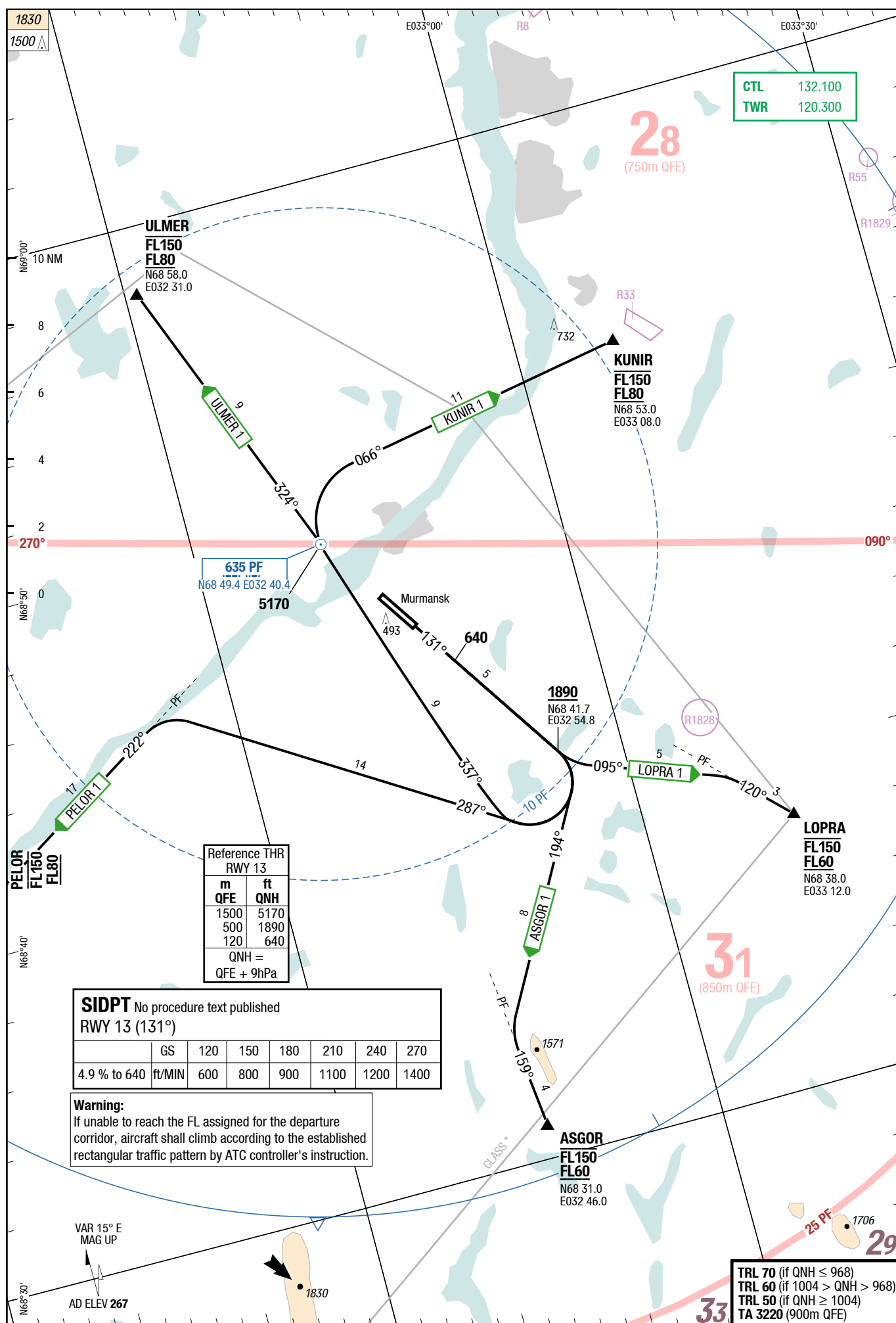


07-FEB-2013
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Russian Federation **Murmansk**
4-30
SIDS RWY 31
SIDS RWY 13

SID
SID

Murmansk Russian Federation
SIDS RWY 31
SIDS RWY 13



07-FEB-2013

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4-40

SIDs RWY 31

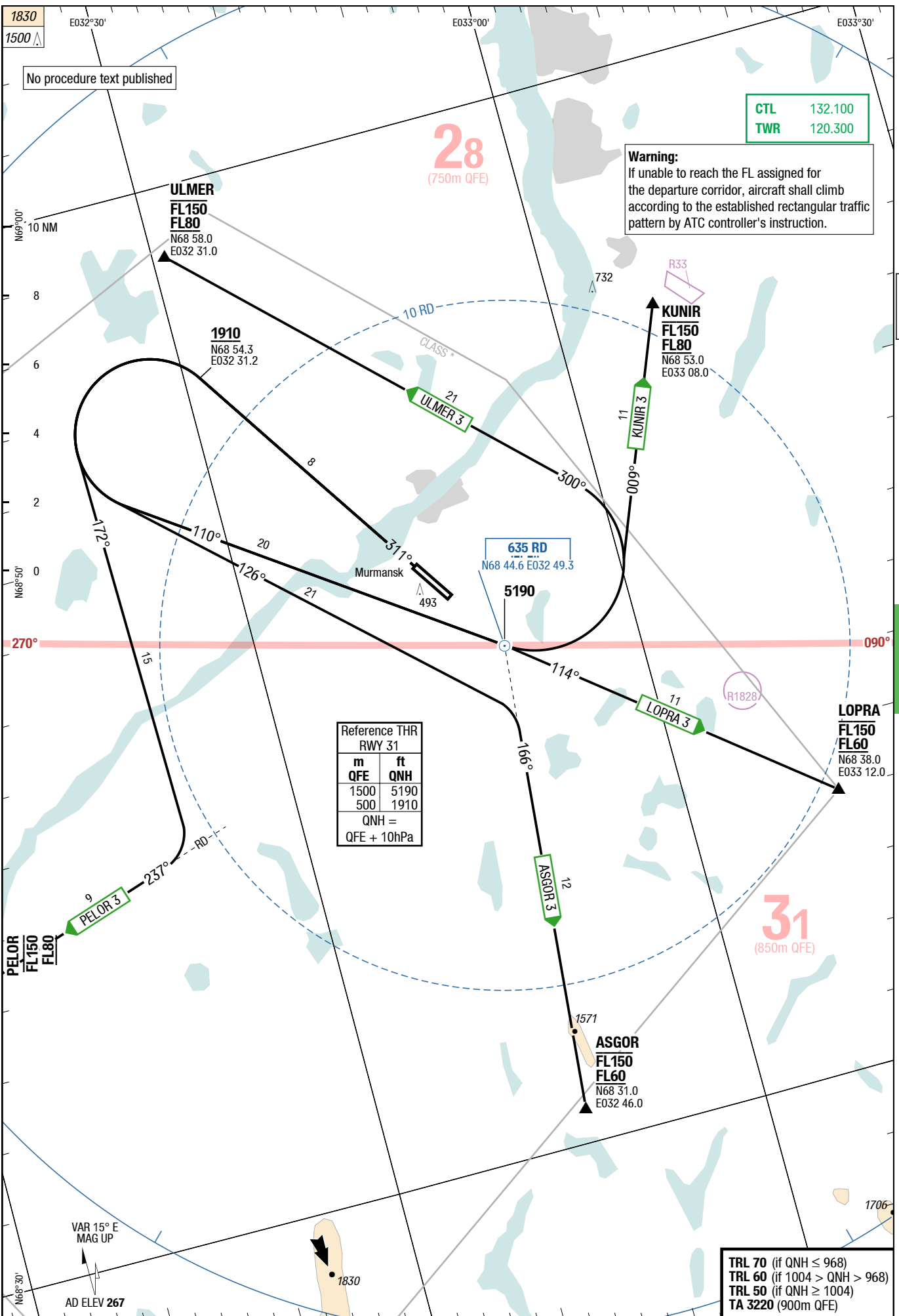
SID

SID

Murmansk Russian Federation

SIDs RWY 31

Changes: Note



07-FEB-2013

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6-10

RNAV STARs RWY 13

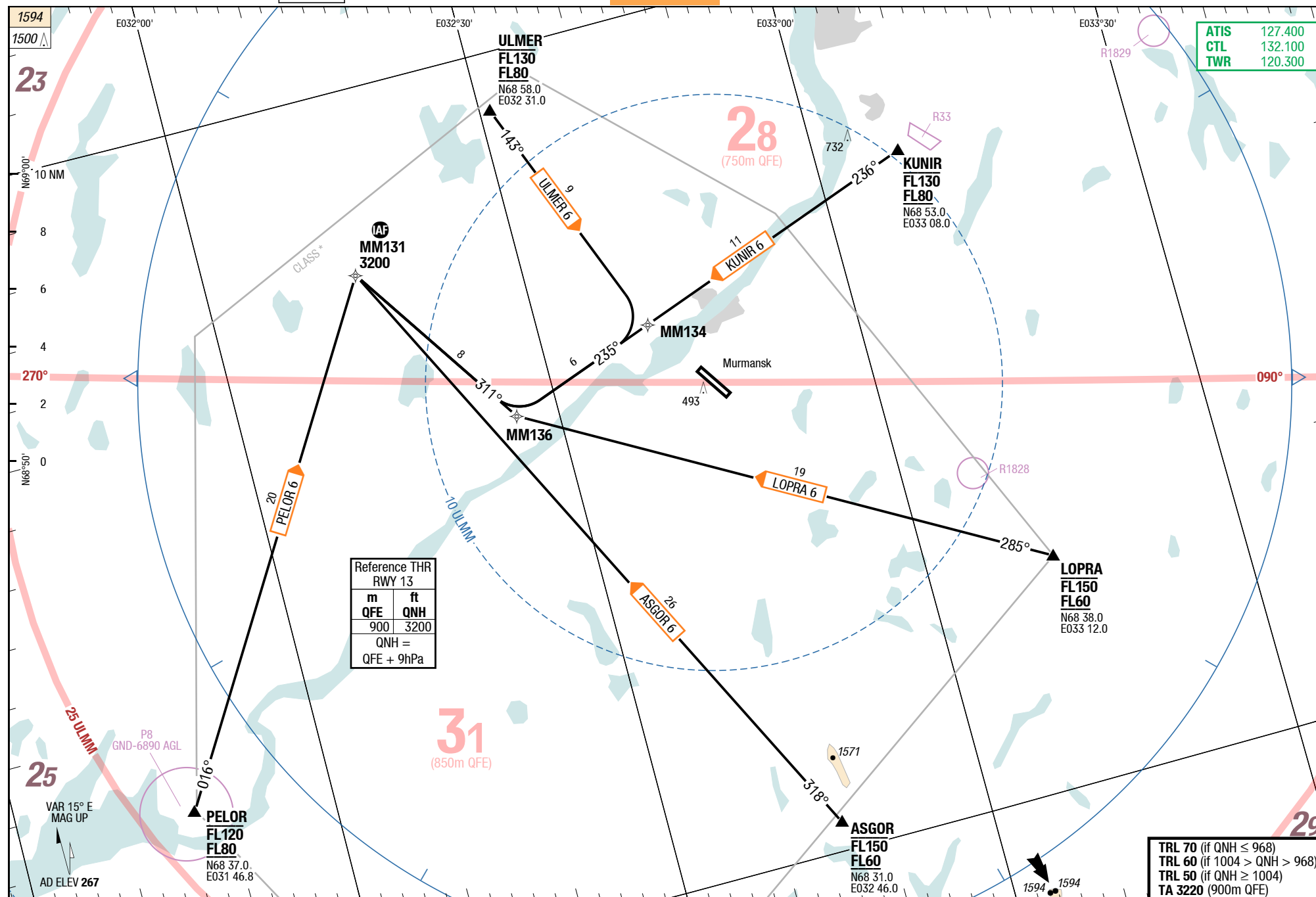
STAR

STAR

Murmansk Russian Federation

RNAV STARs RWY 31

RNAV STARs RWY 13



Changes: FREQ, SUAs

07-FEB-2013

MMK-ULMM

Russian Federation **Murmansk**

6-20

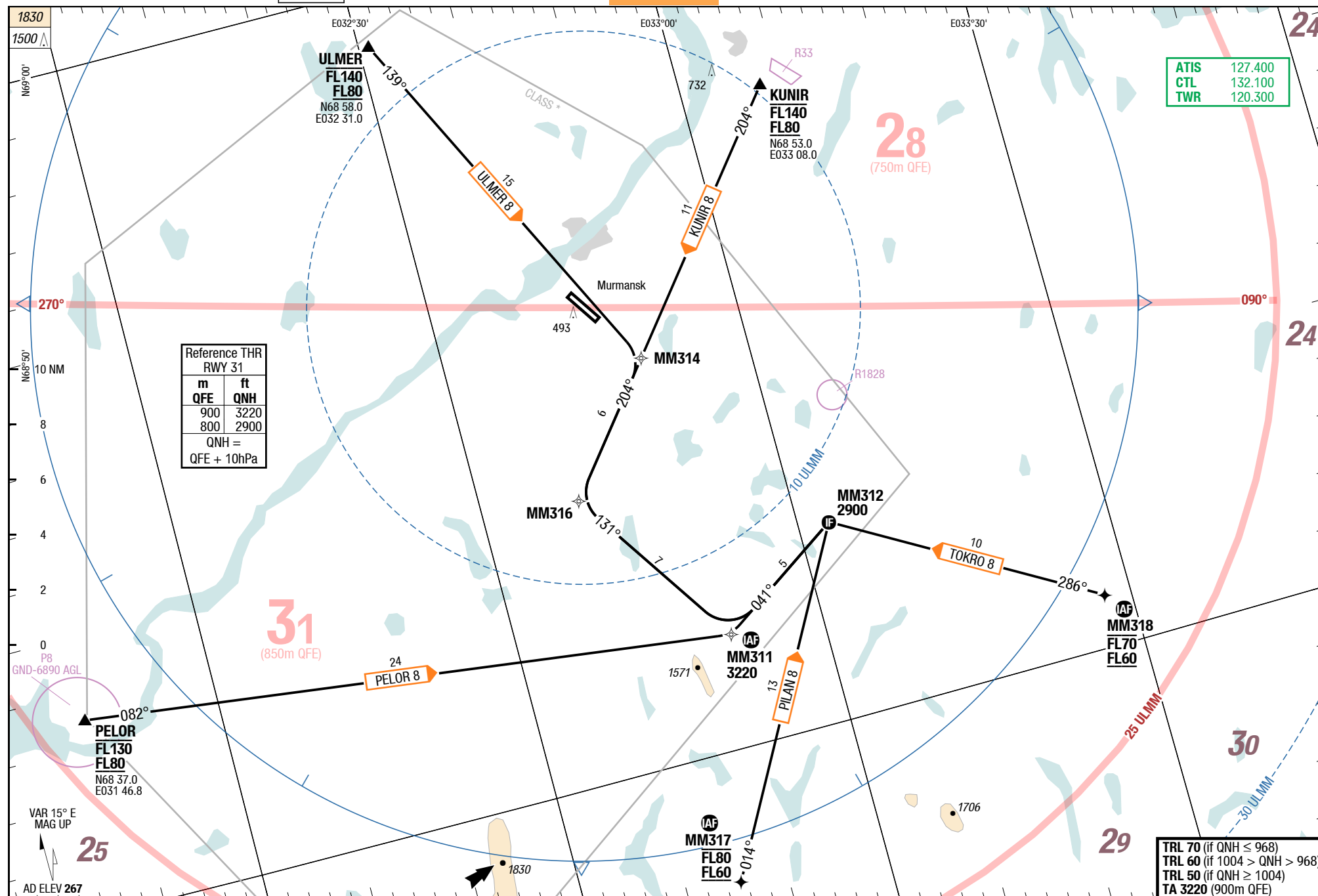
RNAV STARs RWY 31

STAR

STAR

Murmansk Russian Federation

RNAV STARs RWY 31



Changes: FREQ, SUAs

07-FEB-2013
MMK-ULMM

6-30

Russian Federation **Murmansk**

STARs RWY 13 NDB (PF)

STARs RWY 13

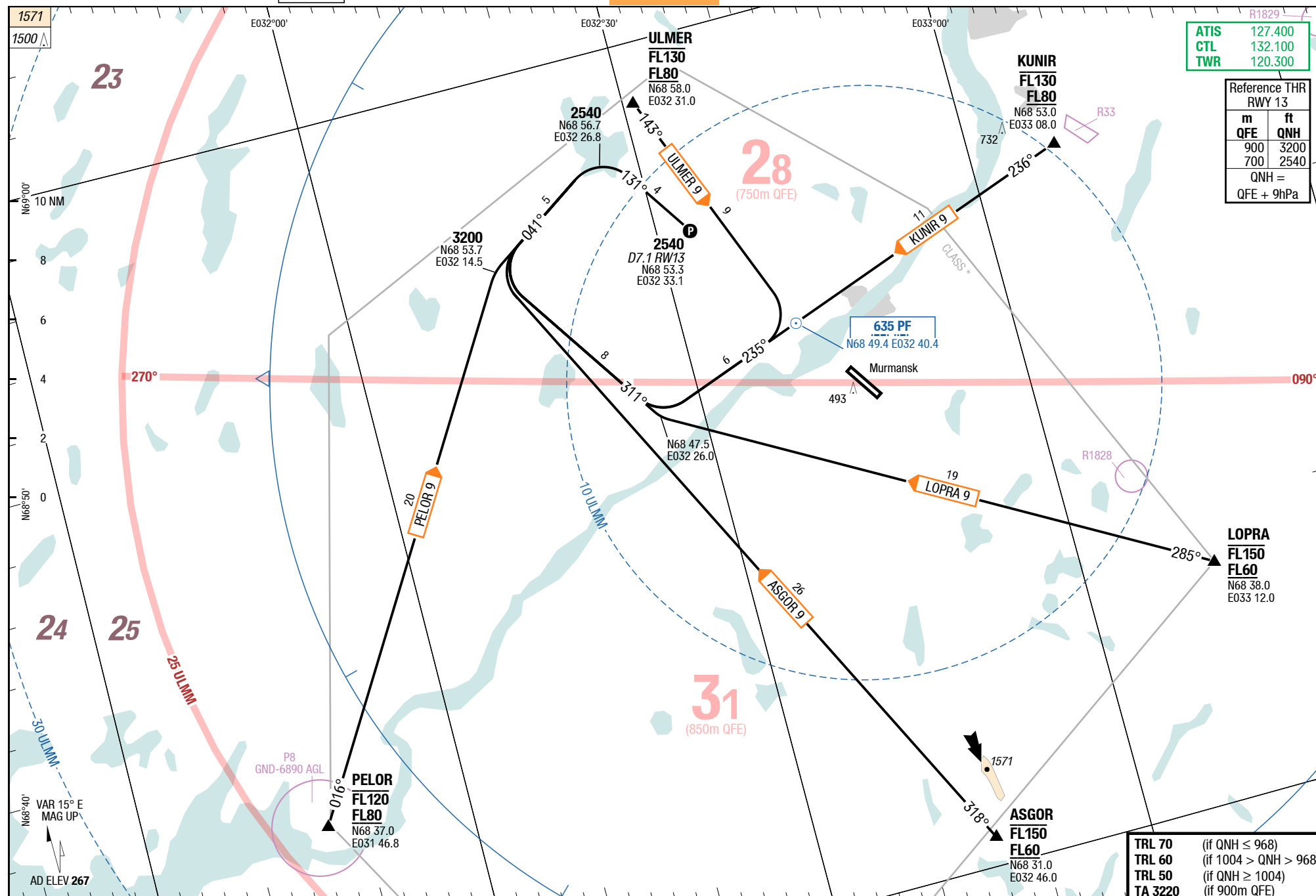
STAR

STAR

Murmansk Russian Federation

STARs RWY 13 NDB (PF)

STARs RWY 13



Changes: New

07-FEB-2013

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Russian Federation **Murmansk**

6-40

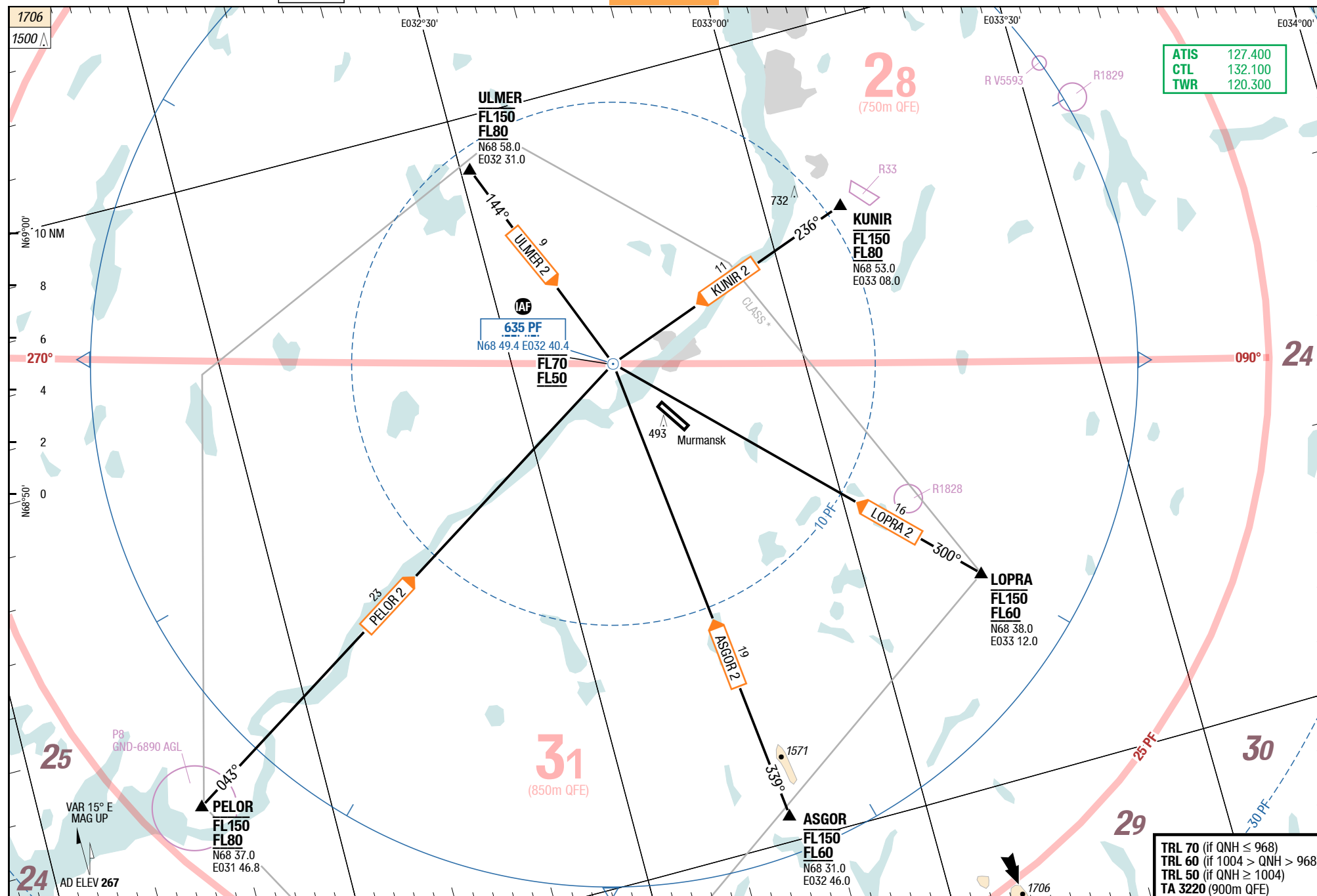
STARs RWY 13 NDB (PF)

STAR

STAR

Murmansk Russian Federation

STARs RWY 13 NDB (PF)



Changes: FREQ, Page Number, SUAs

01-JAN-2015
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Russian Federation **Murmansk**

STARs RWY 31 NDB (RD)

STARs RWY 31

STAR

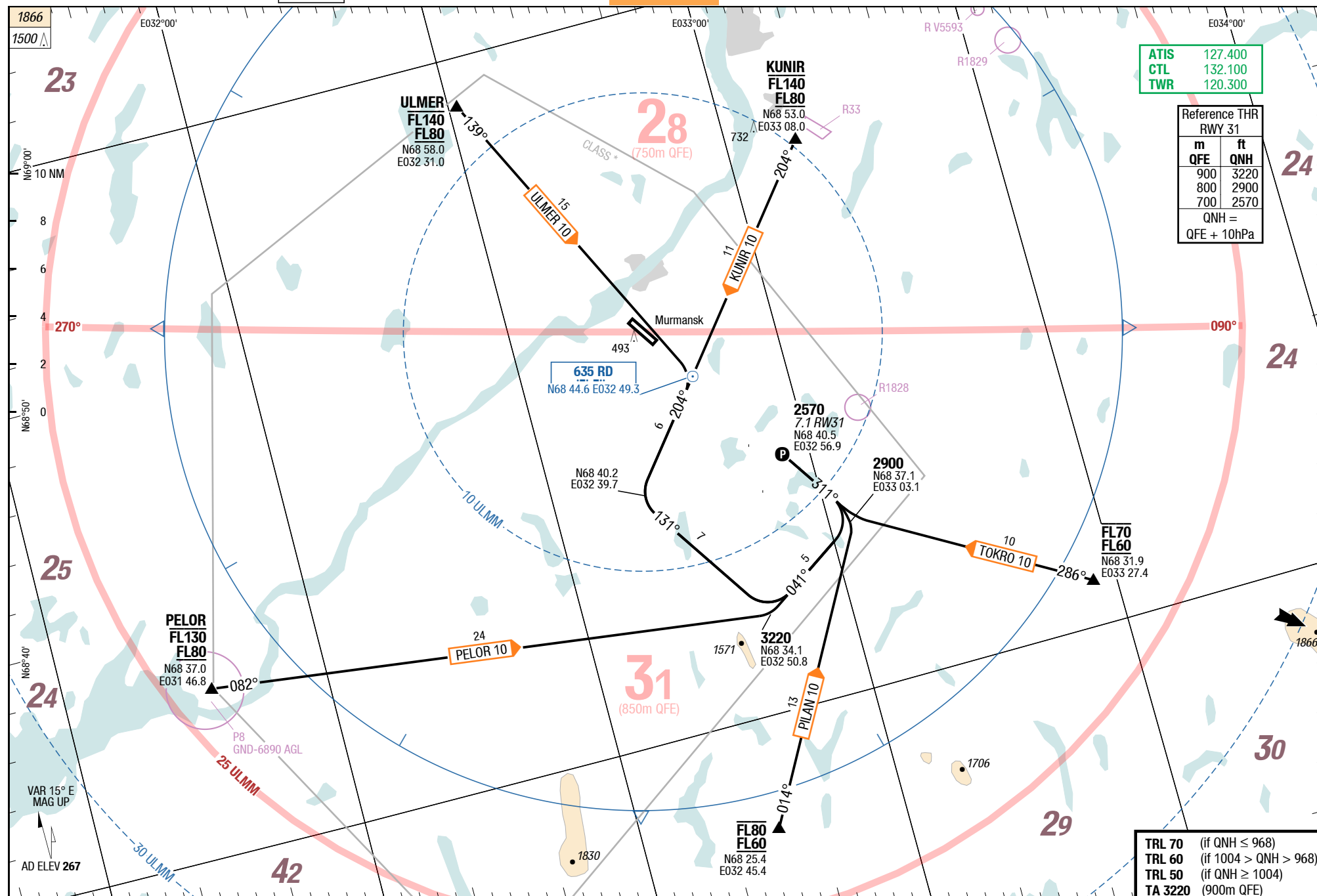
STAR

Murmansk Russian Federation

STARs RWY 31 NDB (RD)

STARs RWY 31

6-50



Changes: Nil

01-JAN-2015

MMK-ULMM

Russian Federation **Murmansk**

6-60

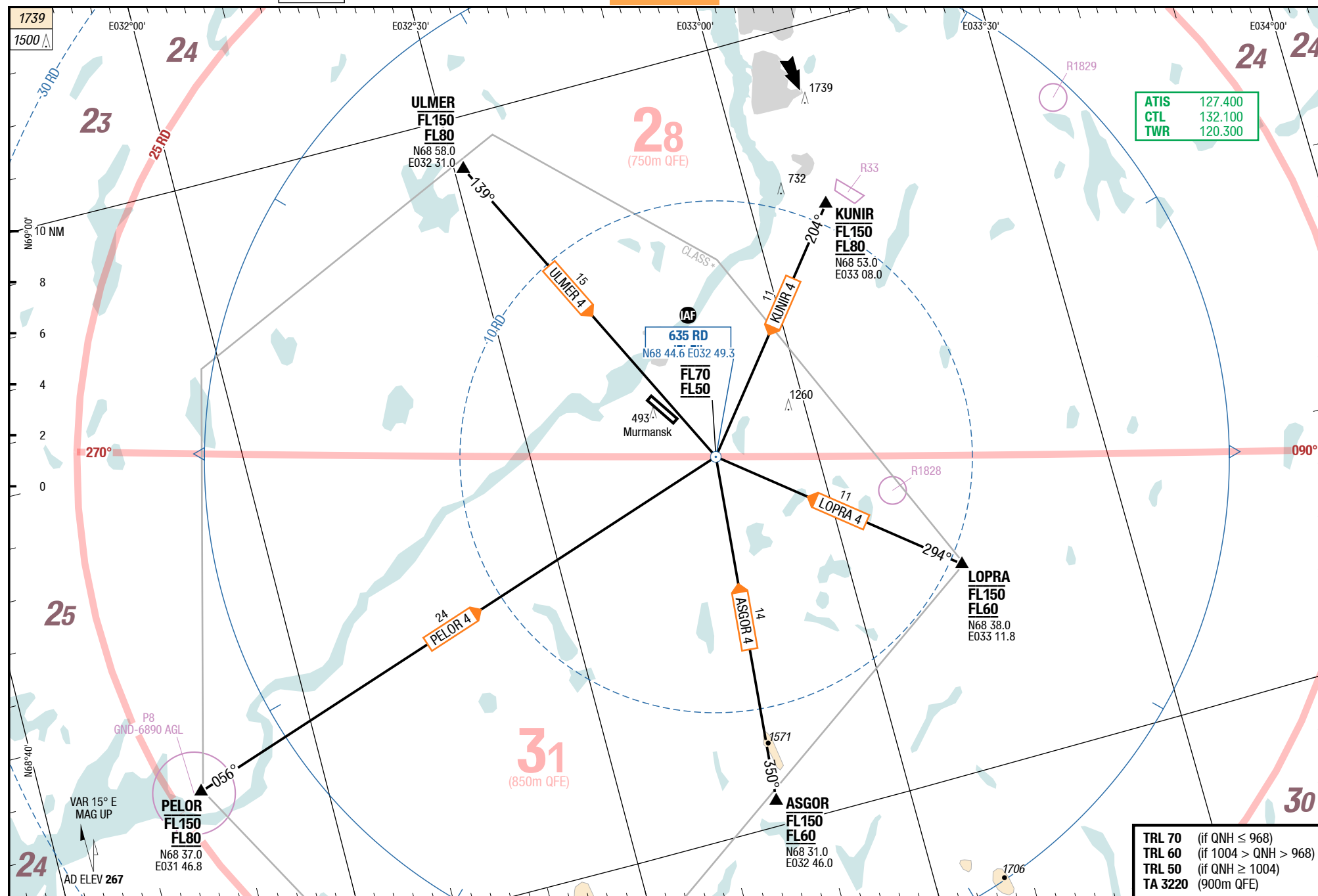
STARs RWY 31 NDB (RD)

STAR

STAR

Murmansk Russian Federation

STARs RWY 31 NDB (RD)



Changes: MGA, SUAs, OBST

30-NOV-2017

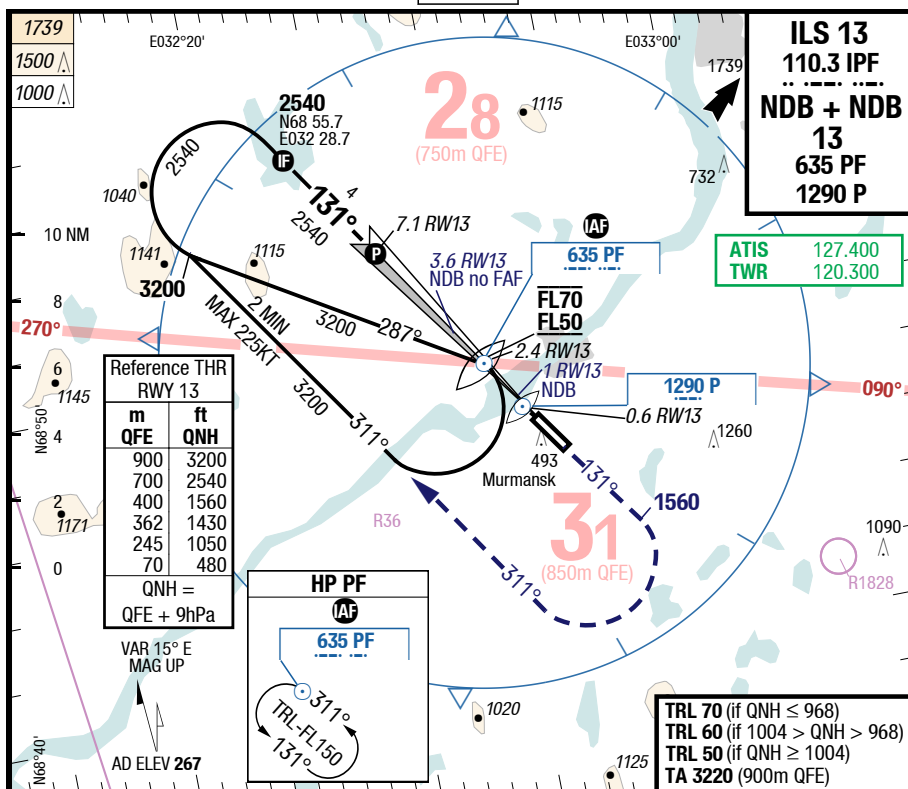
Russian Federation Murmansk

IAC

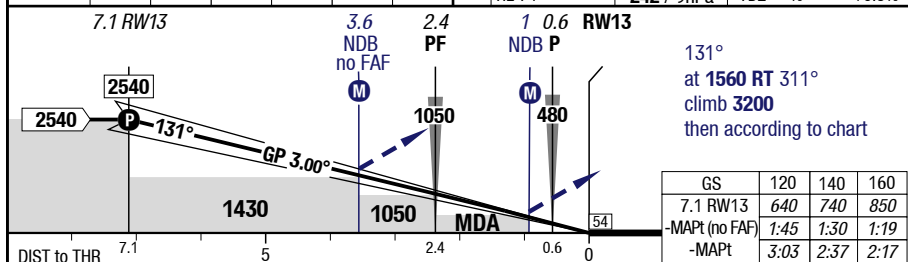
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7-10

ILS 13 / NDB+NDB 13



NDB 3.00°	7.1	6	5	4	3	2		YCZ: 580m
RW13	2540	2210	1890	1570	1250	940	13	2500 x 42
	7.1 RW13						HL-P1	PAPI PSN unknown
								242 / 9hPa TDZ ---% +0.3%



13		Cat 1 1)	LOC	NDB NDB PF+P ²⁾	NDB NDB PF+P wo FAF		Circling
C	ft - m/km ft	220 - 550R/800V 460	Not authorized	350 - 900 600	1190 - 2.4 1430		Not published
D	ft - m/km ft	230 - 550R/800V 470	Not authorized	350 - 900 600	1190 - 2.4 1430		Not published

1) FD, AP or HGS required, else RVR 750m

2) FAF must be given by TAR

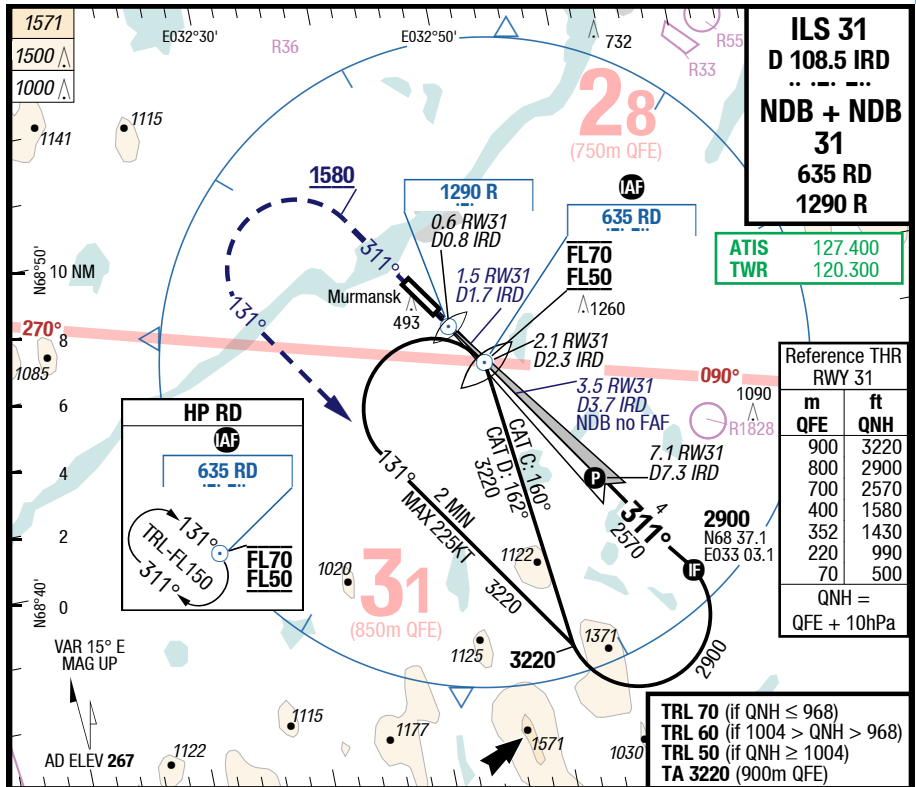
Changes: Nil

30-NOV-2017

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7-20

ILS 31 / NDB+NDB 31



PAPI PSN unknown

60 L

42 x 2500

YCZ: 583m

-0.3%

TDZ ---%

267 / 10hPa

HL-P1

31

2

3

4

5

6

7.1

NDB 3.00°

RW31

960

1280

1600

1920

2230

2570

311°

at MNM 1580 LT 131°

climb 3220

then according to chart

IRL

D0.2 D0.8 D1.7 D2.3 D3.7 D7.3 IRD

RW31 0.6 1.5 2.1 3.5 7.1 RW31

500 990 2570

MDA

GP 3.00° 311°

2570

DIST to THR

0 0.6 2.1 5 7.1

120 140 160

640 740 850

1:48 1:33 1:21

2:48 2:24 2:06

31**Cat 1**
1)**LOC****NDB NDB****NDB NDB****Circling****C**

ft - m/km

ft

210 - 550R/800V

470

Not authorized

530 - 1.7

800

1160 - 2.4

1430

Not published

D

ft - m/km

ft

220 - 550R/800V

480

Not authorized

530 - 1.7

800

1160 - 2.4

1430

Not published

1) FD, AP or HGS required, else RVR 750m

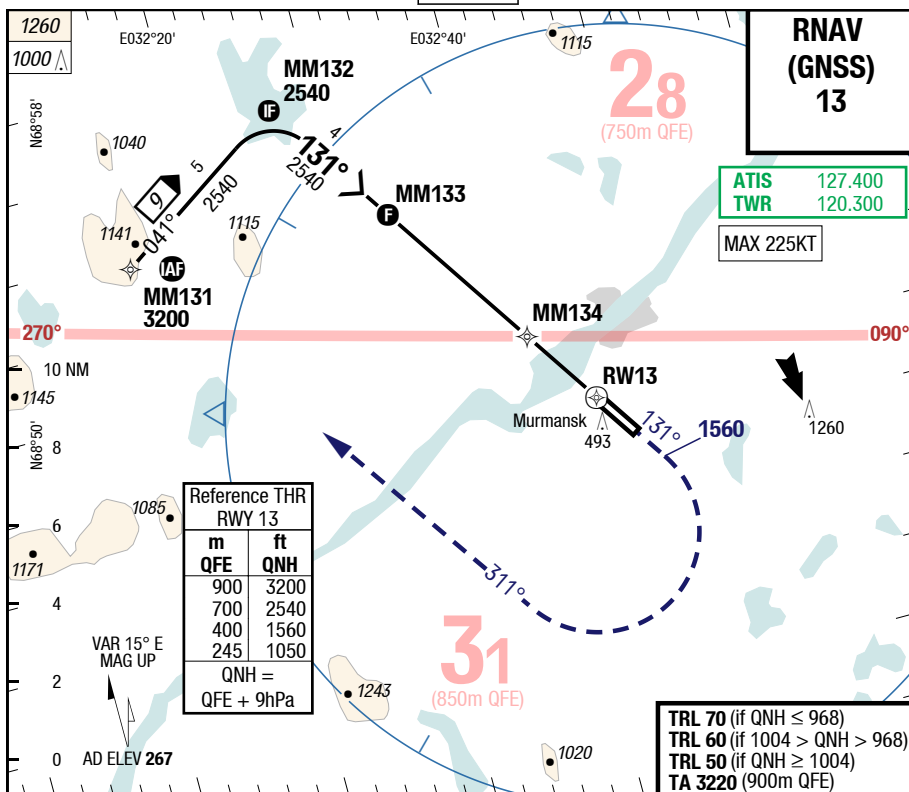
2) FAF must be given by TAR

Changes: ALT

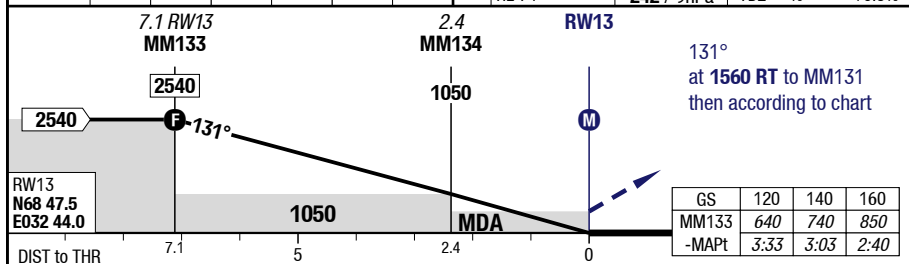
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7-30

RNAV (GNSS) 13



3.00°	7.1	6	5	4	3	2	13	3.0°	YCZ: 580m
RW13	2540	2210	1890	1570	1250	930	HL-P1	2500 x 42	60 L
								PAPI PSN unknown	
								242 / 9hPa	TDZ ---% +0.3%



13	RNAV GNSS					Circling
	LNAV					
C	ft - m/km ft	350 - 900 600				Not published
D	ft - m/km ft	350 - 900 600				Not published

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7-40

RNAV (GNSS) 31

