

15-FEB-2018

TNR-FMMI

1-10

AOI

AOI

GENERAL**Operational Hours****ATS Hours:** H24

AD ADMIN Hours: ASECNA HS MON-FRI 0400-1200
 RAVINALA AIRPORTS: HS (0300-1030)
 Permanence outside OPS HRs

Airport Information**RFF:** CAT 8**Fuel:** PN 1HR for NON-SKED flights**PCN:** RWY 11/29: 87/F/B/X/T**Operation****Low Visibility Procedure**

LVP in force when RVR below 1.5km and/or VIS below 2km.

RWY Restrictions

180° turns on RWY prohibited for ACFT weight 40t / 88185lbs or above. Use turning pad at RWY ends.

Turn around area:

- Blue lights with B747 turn around system (green and red lights).
- For B777 turn arrow and minimal turn angle 55°.

TWY Restrictions

TWY W width 18m / 59ft.

TWY N width 14.6m / 48ft.

TWY Z width 10m / 33ft.

TWY N, Z MAX weight 5.7t / 12500lbs.

TWY W CLSD to ACFT having ACN greater than the PCN of the TWY (30/F/C/X/T).

Engine Run-up Areas

ENG test prohibited, except if allowed by ATC on assigned stand.

Warnings

Birds on the manoeuvring area and in vicinity of AD.

ARRIVAL**Speed**

MAX IAS 250KT below FL100 not applied, except HLDG speed MAX IAS 230KT.

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TNR-FMMI**1-20****AOI****AOI****DEPARTURE****Take-off Minima**

RWY		11
All ACFT	ft - m/km	0 - 400R/400V
RWY		29
All ACFT	ft - m/km	0 - 400V

Speed

MAX IAS 250KT below FL100 not applied, except HLDG speed MAX IAS 230KT.

Departure Procedure**Start-up/Push-back**

Contact TWR for start-up/push-back CLR.

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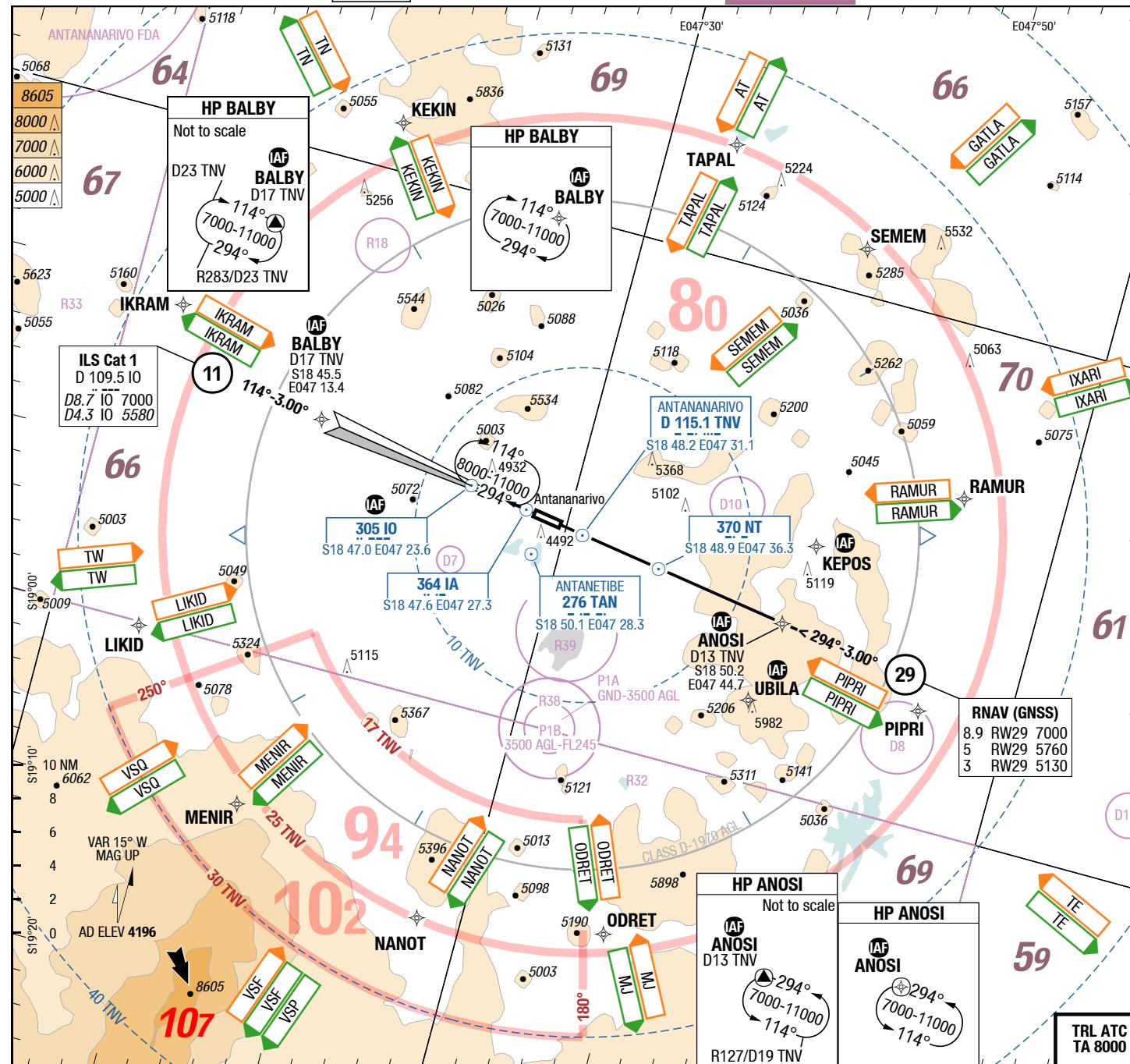
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AGC
AFC

Ivato Antananarivo Madagascar

AGC
AFC

2-10

APP
Info
CTL
Ivato TWR125.700
128.900 below FL245
128.900 above FL245
120.100

Landing RWY system:

11 HL-P1F THR 4197 (143hPa) / TDZ 4193 (---%) -0.8%
last 300m yellow 60 HL 3100 x 45 3.0°

HL-P1F THR 4197 (143hPa) / TDZ 4193 (---%) -0.8%
last 300m yellow 60 HL 45 x 3100 3.0°
+0.8% TDZ 4127 (---%) / THR 4116 (140hPa)

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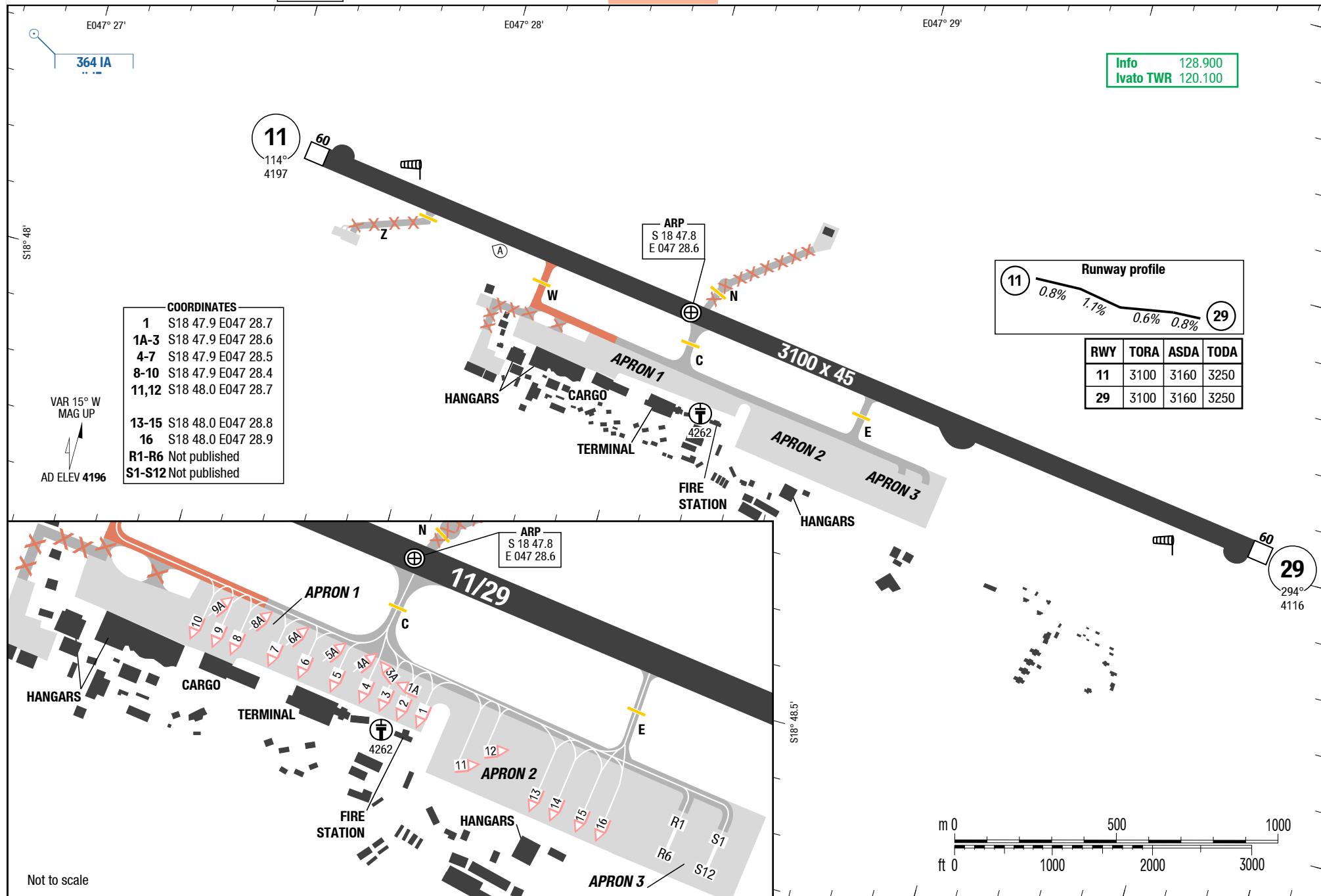
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3-20

AGC

AGC

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4-10

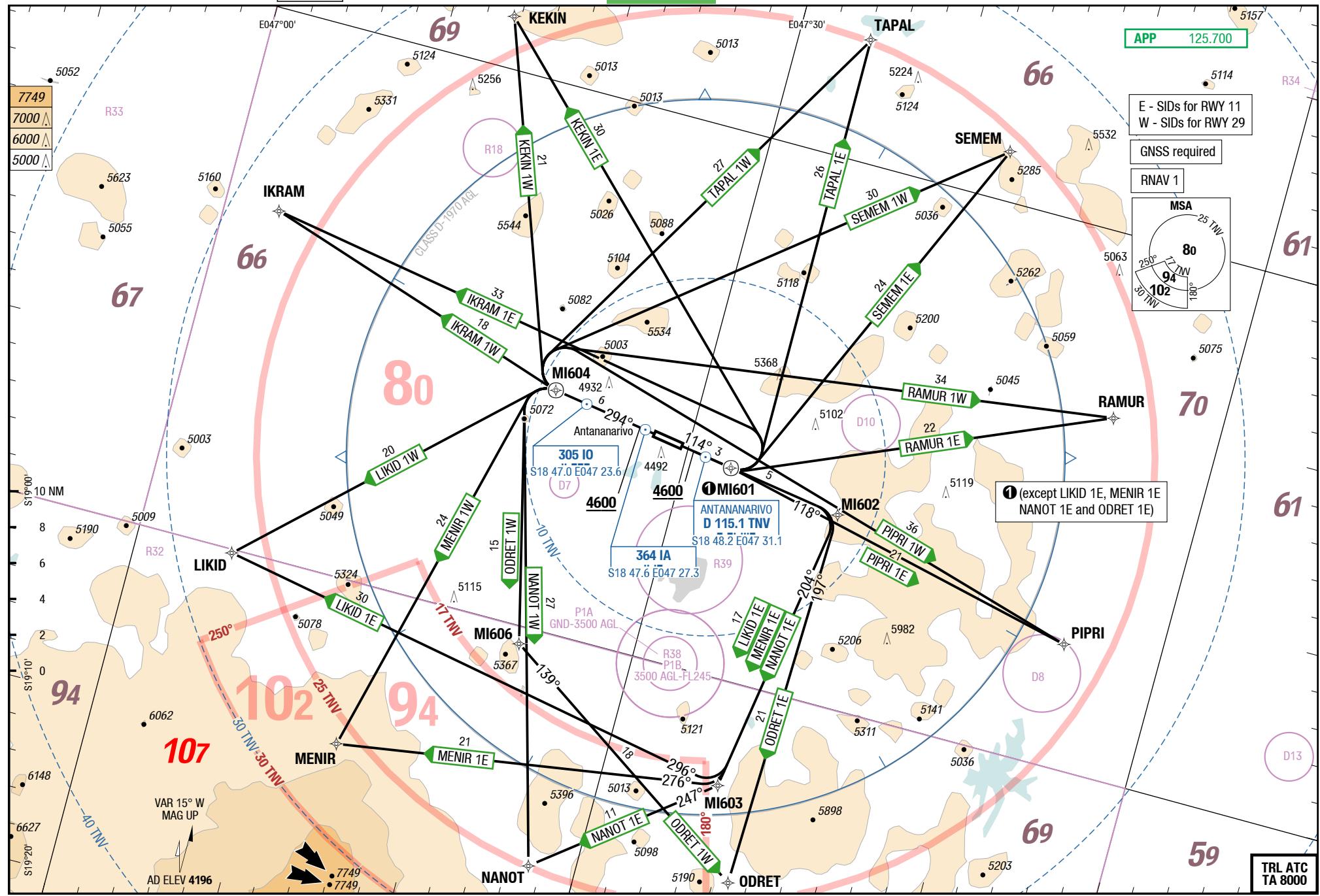
RNAV SIDs

SID

SID

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RNAV SIDs



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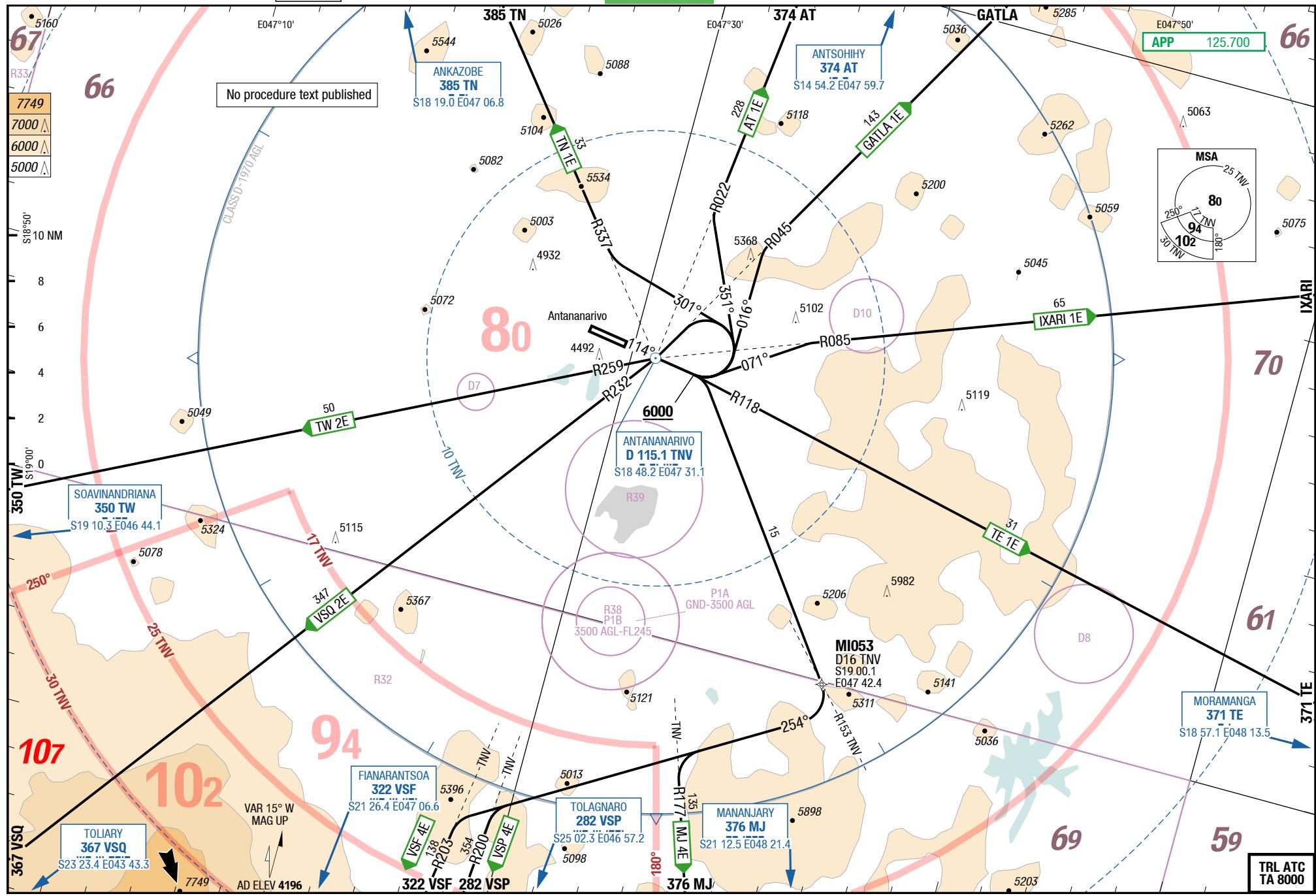
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4-30

SIDs RWY 11

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SIDs RWY 29
SIDs RWY 11

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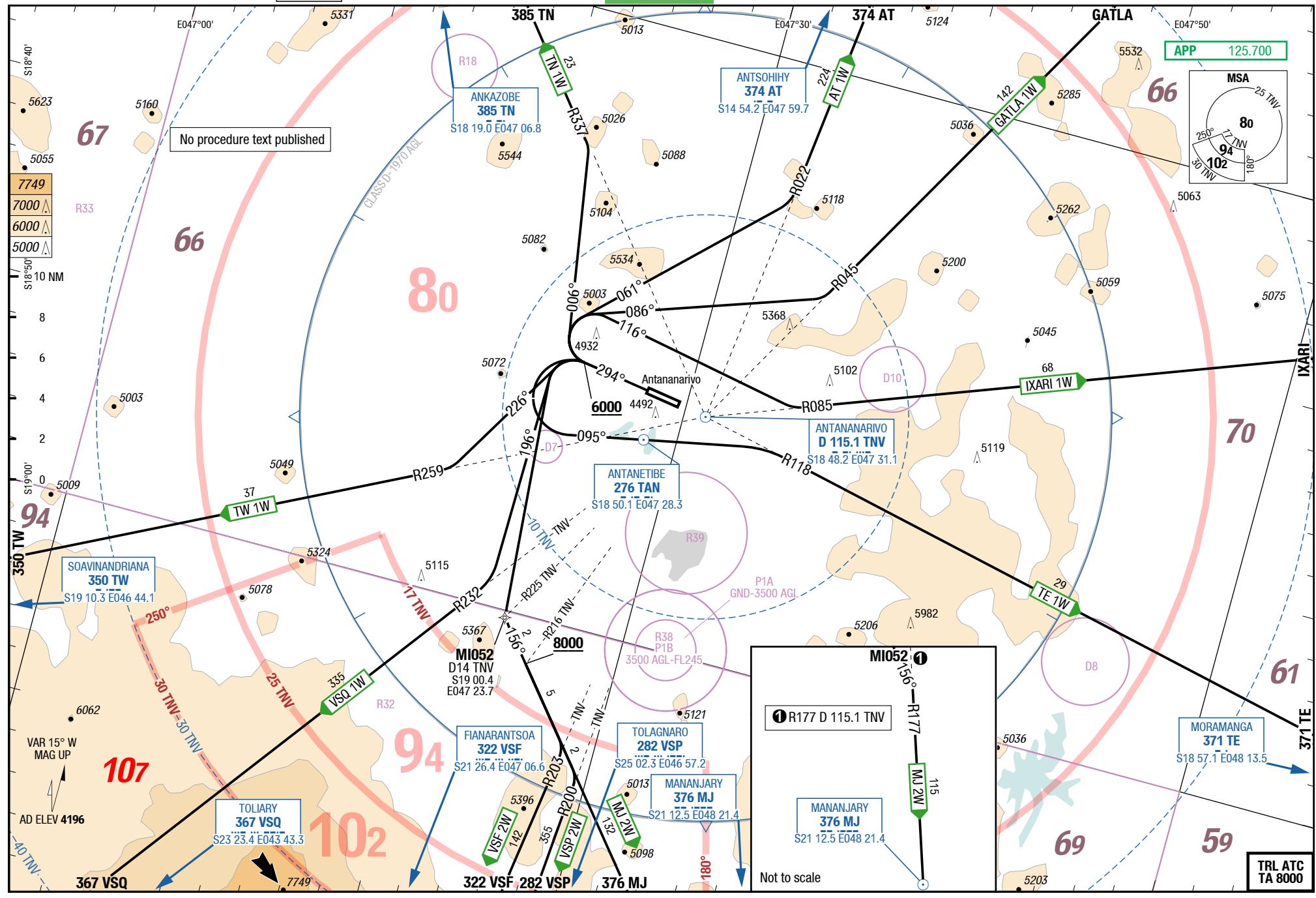
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SIDs RWY 29

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SIDs RWY 29

-40



Changes: MGA, DIST, OBST, TOPO, AD ELEV, Editorial

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5-10

RNAV SIDs

IKRAM 1E / IKRAM 1W / KEKIN 1E / KEKIN 1W / LIKID 1E / LIKID 1W / MENIR 1E / MENIR 1W / NANOT 1E / NANOT 1W / ODRET 1E / ODRET 1W / PIPRI 1E / RAMUR 1E / SEMEM 1E / TAPAL 1E

RWYs 11 (114°) / 29 (294°)

DESIGNATOR	ROUTING	ALTITUDES
Runway 11		
IKRAM 1E 125.700	114° [A4600+] - DCT <u>MI601</u> [L] - DCT IKRAM	
KEKIN 1E 125.700	114° [A4600+] - DCT <u>MI601</u> [L] - DCT KEKIN	
LIKID 1E 125.700	114° [A4600+] - DCT MI602 - MI603 - LIKID	
MENIR 1E 125.700	114° [A4600+] - DCT MI602 - MI603 - MENIR	
NANOT 1E 125.700	114° [A4600+] - DCT MI602 - MI603 - NANOT	
ODRET 1E 125.700	114° [A4600+] - DCT MI602 - ODRET	
PIPRI 1E 125.700	114° [A4600+] - DCT <u>MI601</u> - PIPRI	
RAMUR 1E 125.700	114° [A4600+] - DCT <u>MI601</u> - DCT RAMUR	
SEMEM 1E 125.700	114° [A4600+] - DCT <u>MI601</u> [L] - DCT SEMEM	
TAPAL 1E 125.700	114° [A4600+] - DCT <u>MI601</u> [L] - DCT TAPAL	
Runway 29		
IKRAM 1W 125.700	294° [A4600+] - DCT <u>MI604</u> - DCT IKRAM	
KEKIN 1W 125.700	294° [A4600+] - DCT <u>MI604</u> - DCT KEKIN	
LIKID 1W 125.700	294° [A4600+] - DCT <u>MI604</u> - DCT LIKID	
MENIR 1W 125.700	294° [A4600+] - DCT <u>MI604</u> - DCT MENIR	
NANOT 1W 125.700	294° [A4600+] - DCT <u>MI604</u> [L] - DCT NANOT	
ODRET 1W 125.700	294° [A4600+] - DCT <u>MI604</u> [L] - DCT MI606 - ODRET	

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TNR-FMMI**5-20****RNAV SIDs****PIPRI 1W / RAMUR 1W / SEMEM 1W / TAPAL 1W**

RWY 29 (294°)

DESIGNATOR	ROUTING	ALTITUDES
Runway 29		
PIPRI 1W 125.700	294° [A4600+] - DCT <u>MI604</u> [R] - DCT PIPRI	
RAMUR 1W 125.700	294° [A4600+] - DCT <u>MI604</u> [R] - DCT RAMUR	
SEMEM 1W 125.700	294° [A4600+] - DCT <u>MI604</u> [R] - DCT SEMEM	
TAPAL 1W 125.700	294° [A4600+] - DCT <u>MI604</u> [R] - DCT TAPAL	

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STAFF

10

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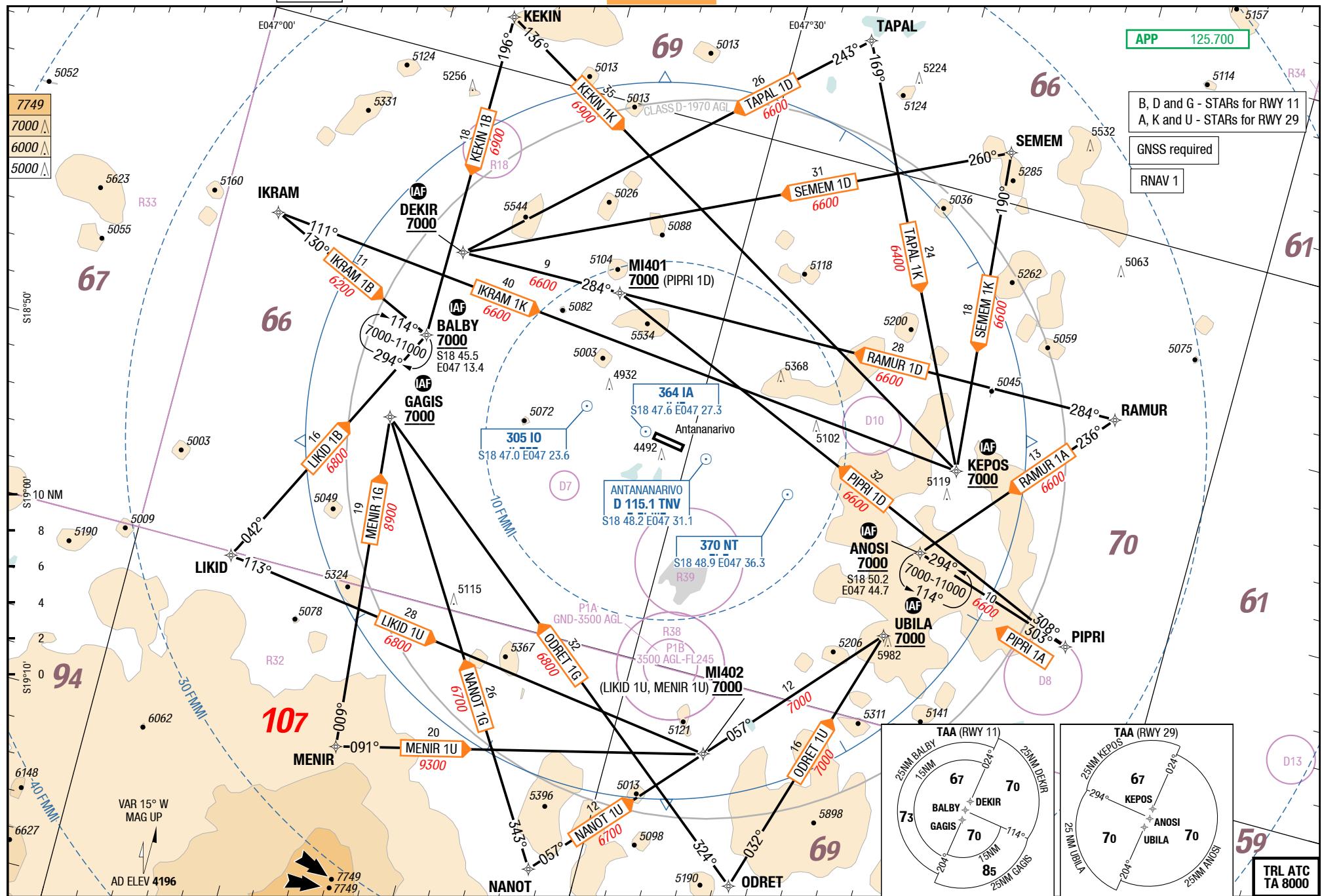
STA
RN

NAV STARS

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6-10

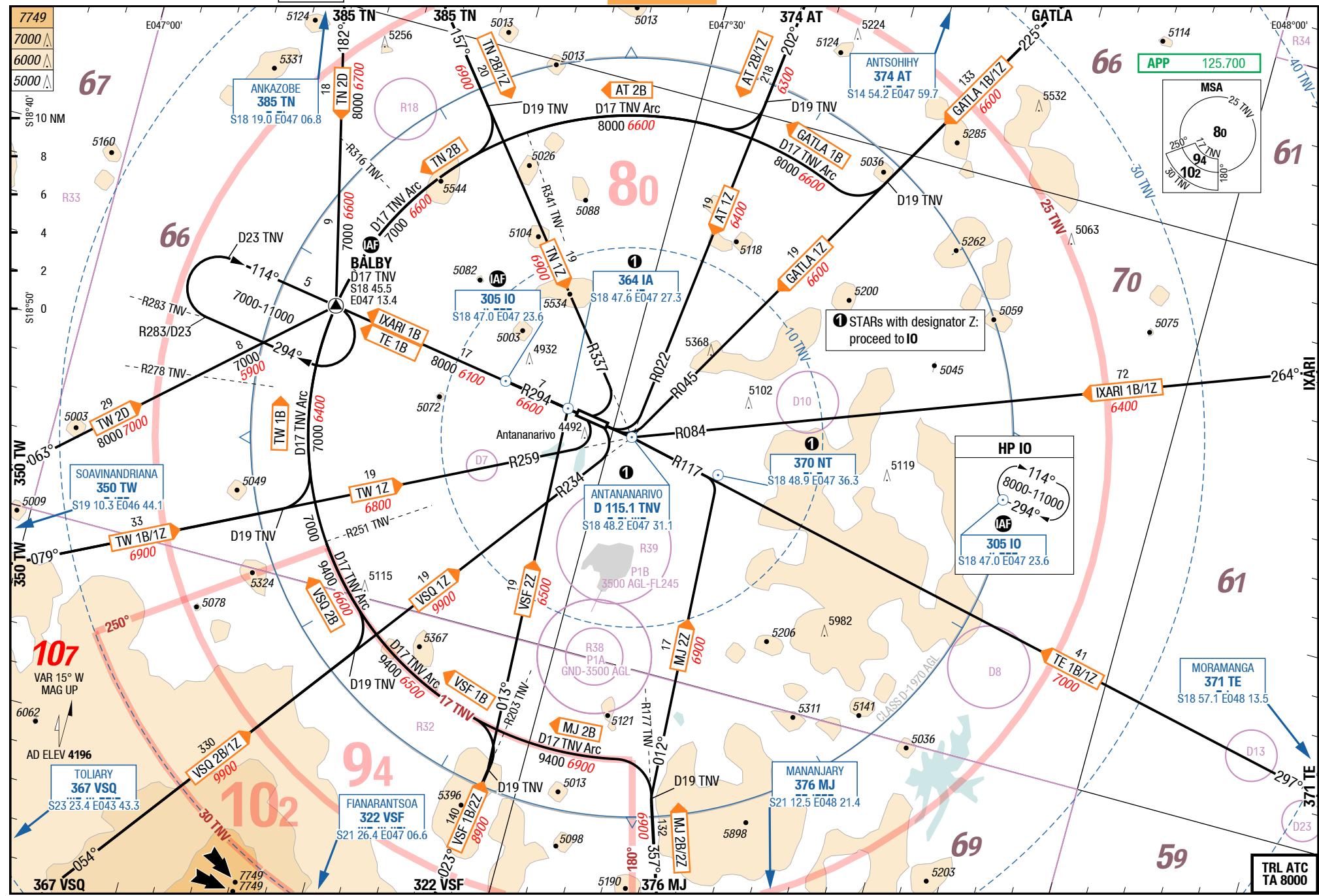
RNAV STARS



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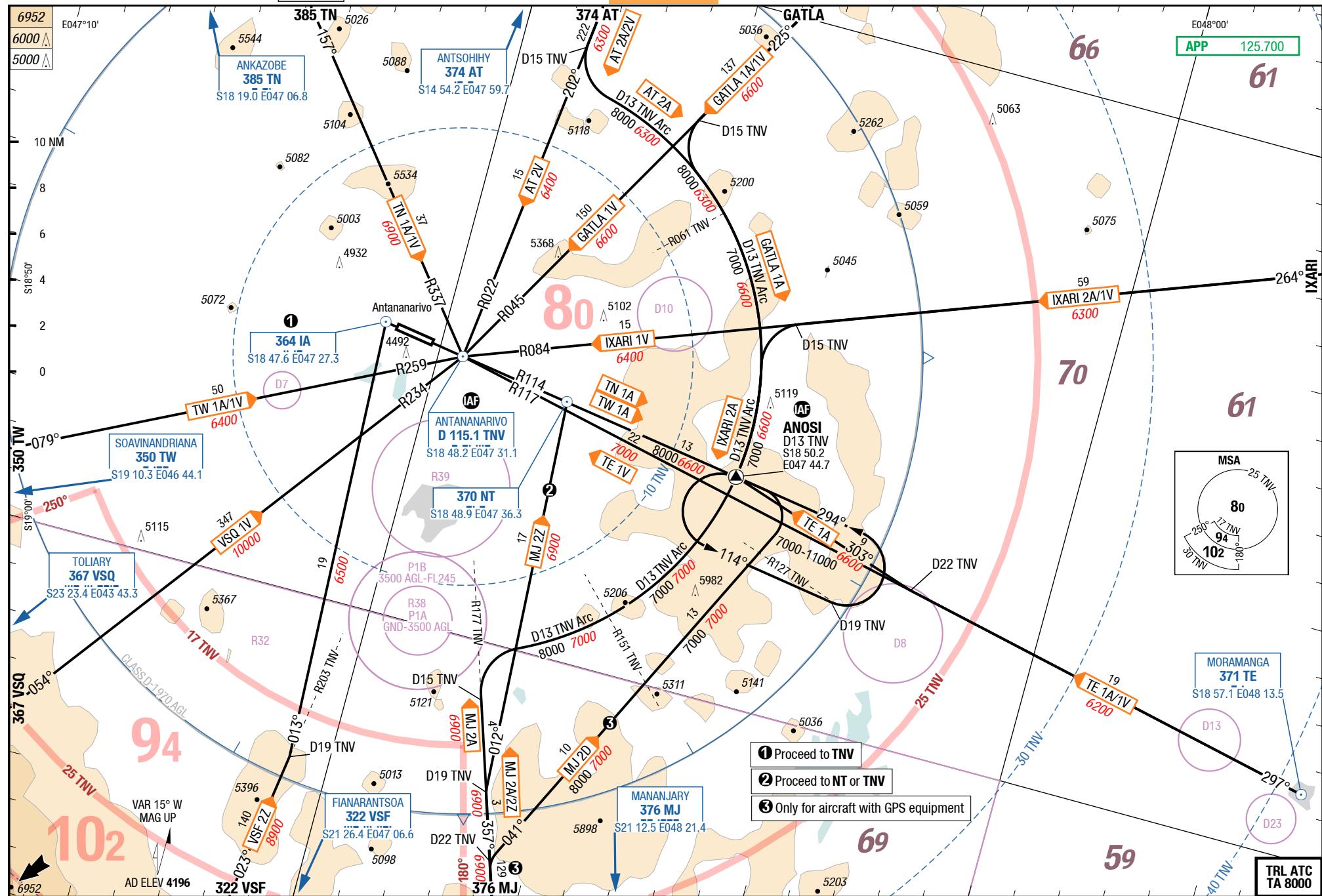
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STARs RWY 29

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STARs RWY 29



Changes: MGA, MTCA, OBST, TOPO, AD ELEV, Editorial

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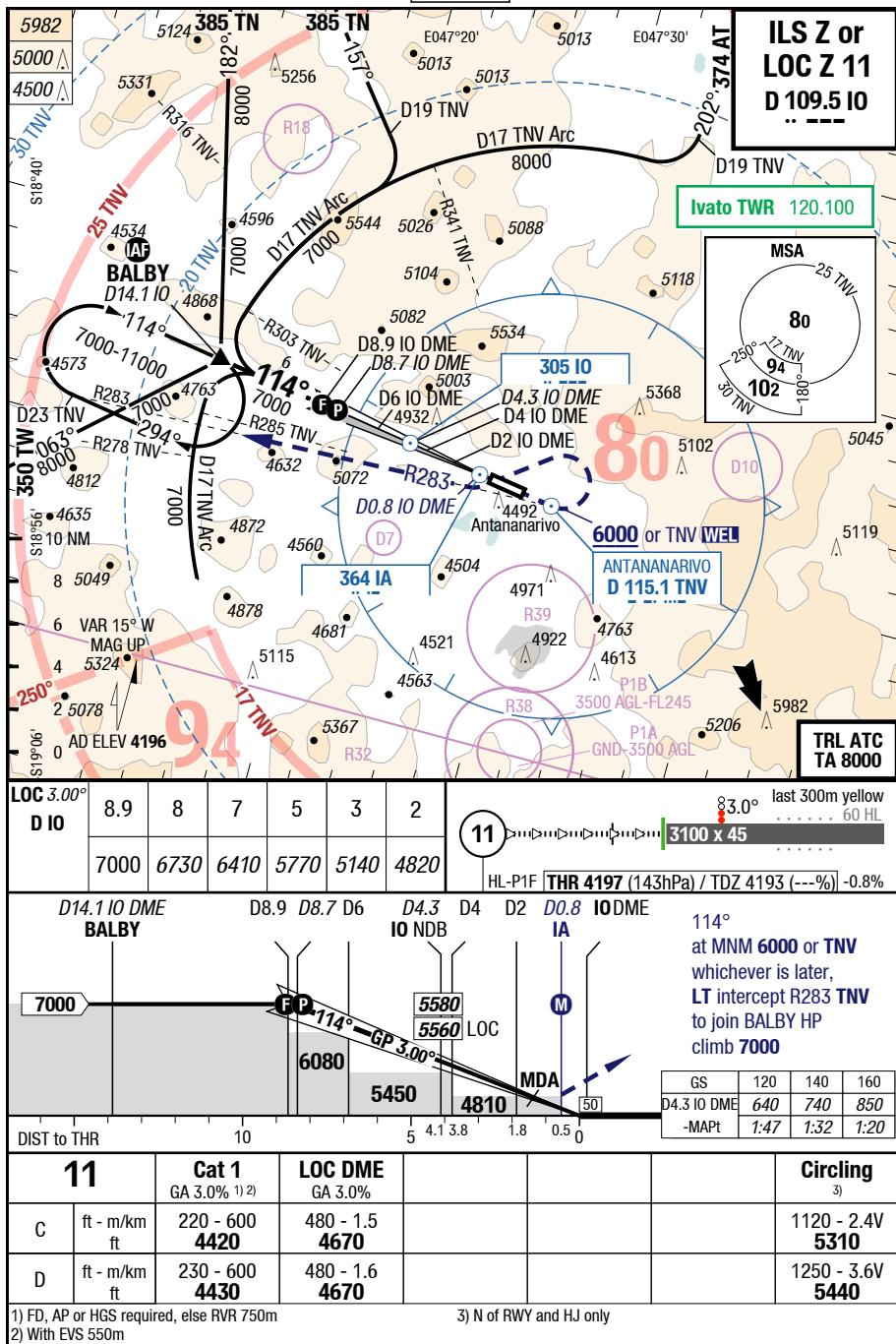
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IAC

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7-10

ILS Z or LOC Z 11



Changes: TDZE, ALT, OBST, MISAP text, AD ELEV

22-FEB-2018

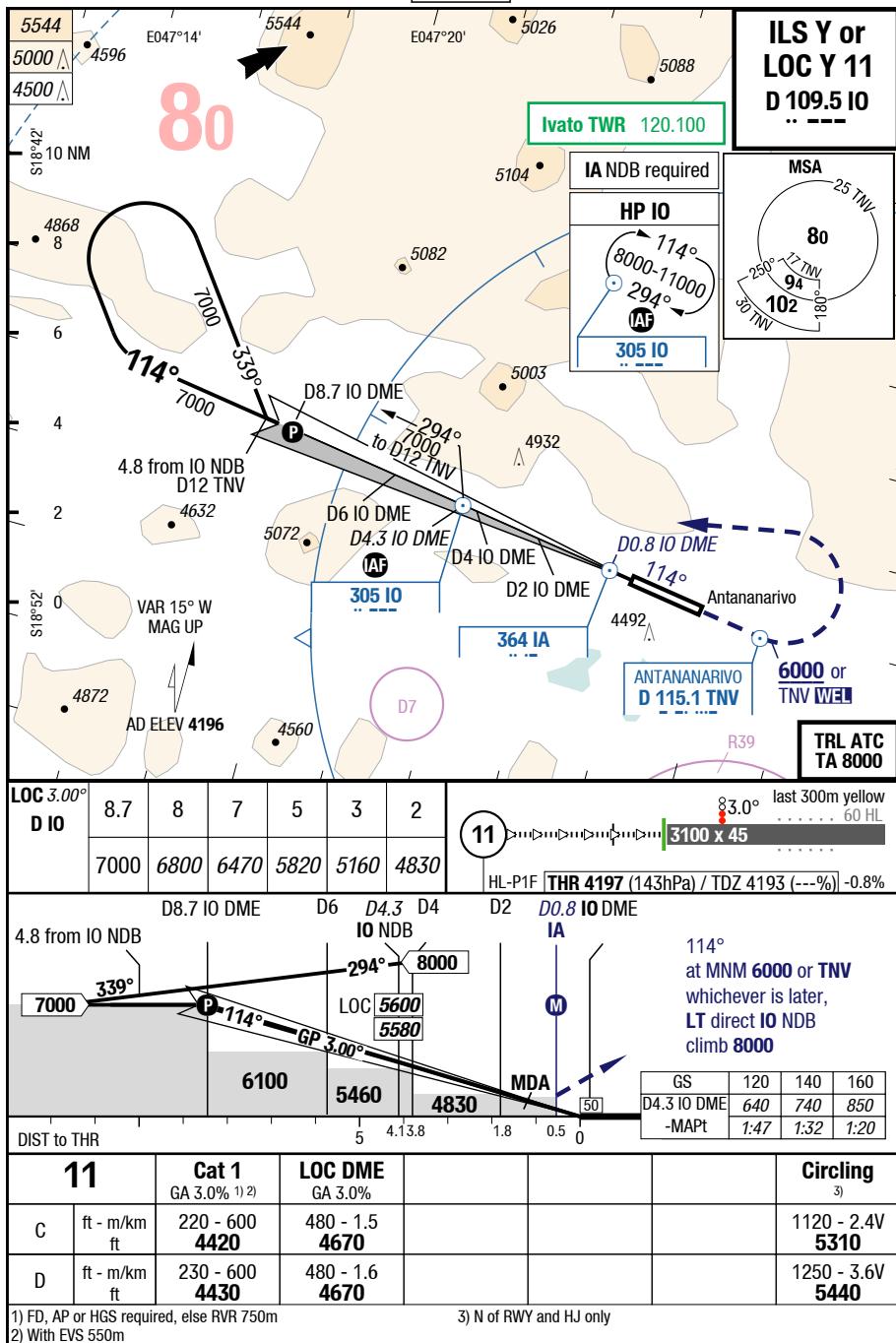
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IAC

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7-20

ILS Y or LOC Y 11



Changes: TDZE, ALT, OBST, MISAP text, AD ELEV

22-FEB-2018

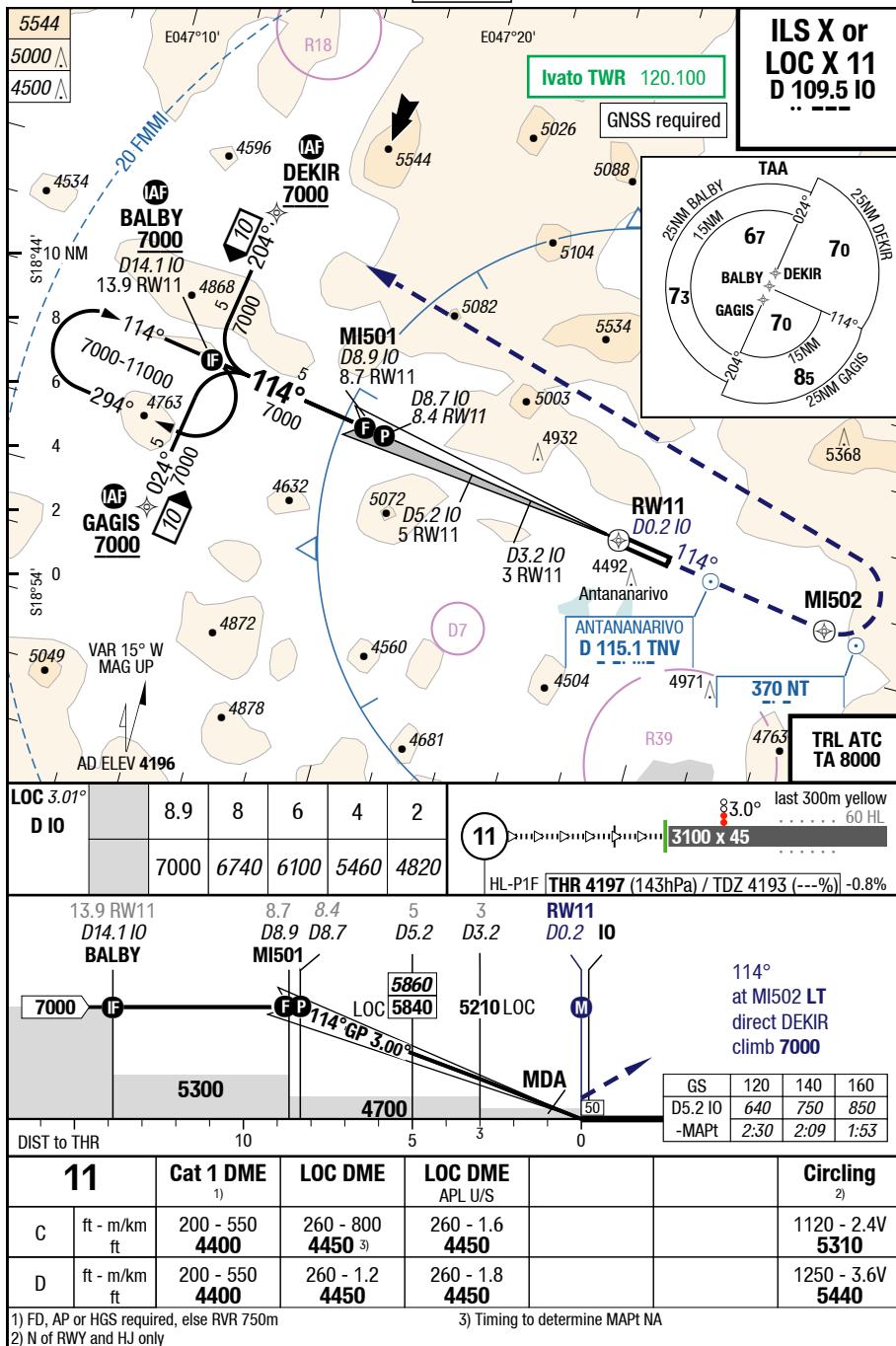
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IAC

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7-30

ILS X or LOC X 11



Changes: TDZE, OBST, AD ELEV

22-FEB-2018

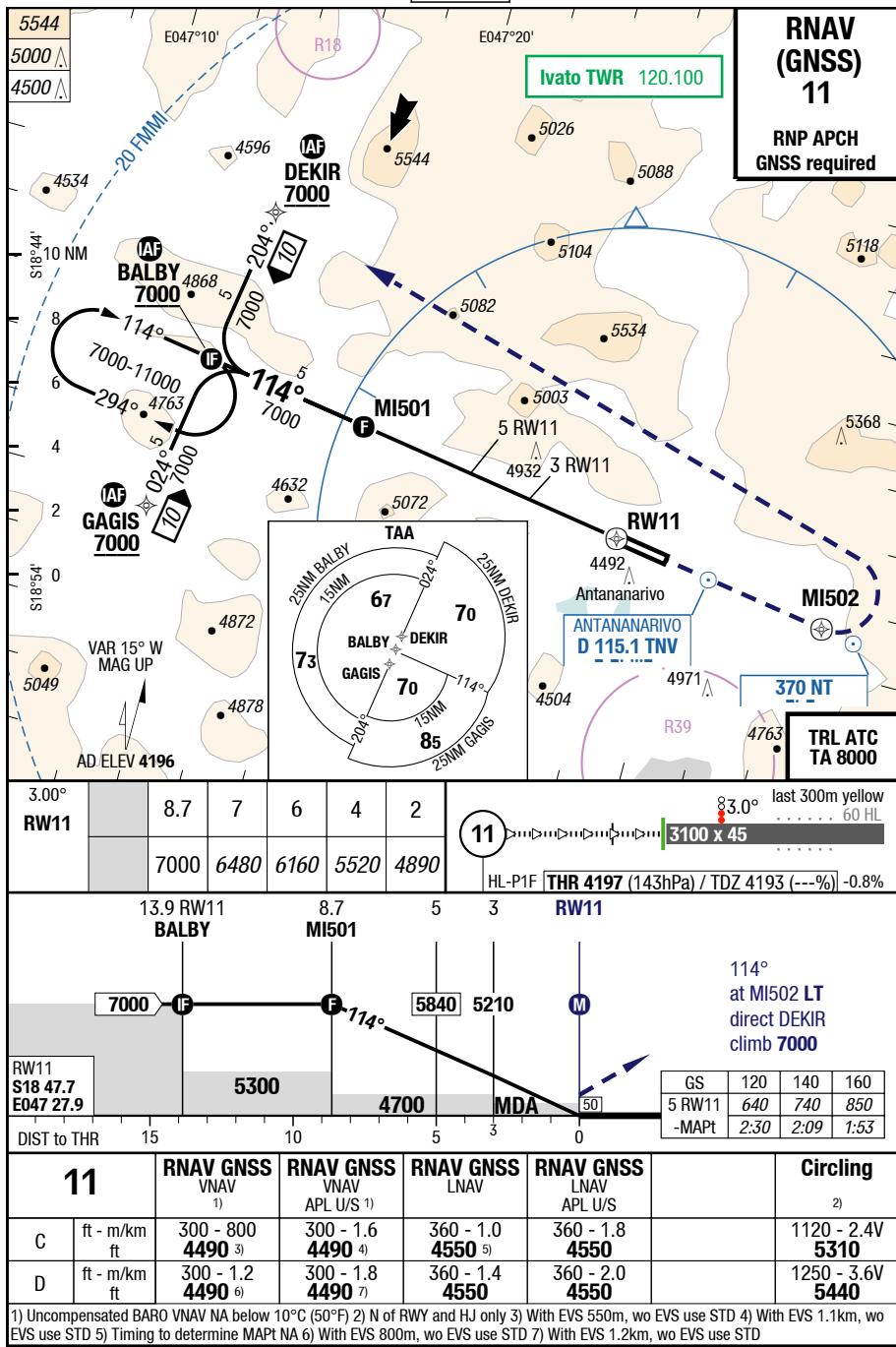
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7-50

RNAV (GNSS) 11



1) Uncompensated BARO VNA below 10°C (50°F) 2) N of RWY and H, only 3) With EVS 550m, wo EVS use STD 4) With EVS 1.1km, wo EVS use STD 5) Timing to determine MAPT NA 6) With EVS 800m, wo EVS use STD 7) With EVS 1.2km, wo EVS use STD

Changes: TDZE, OBST, AD ELEV

22-FEB-2018

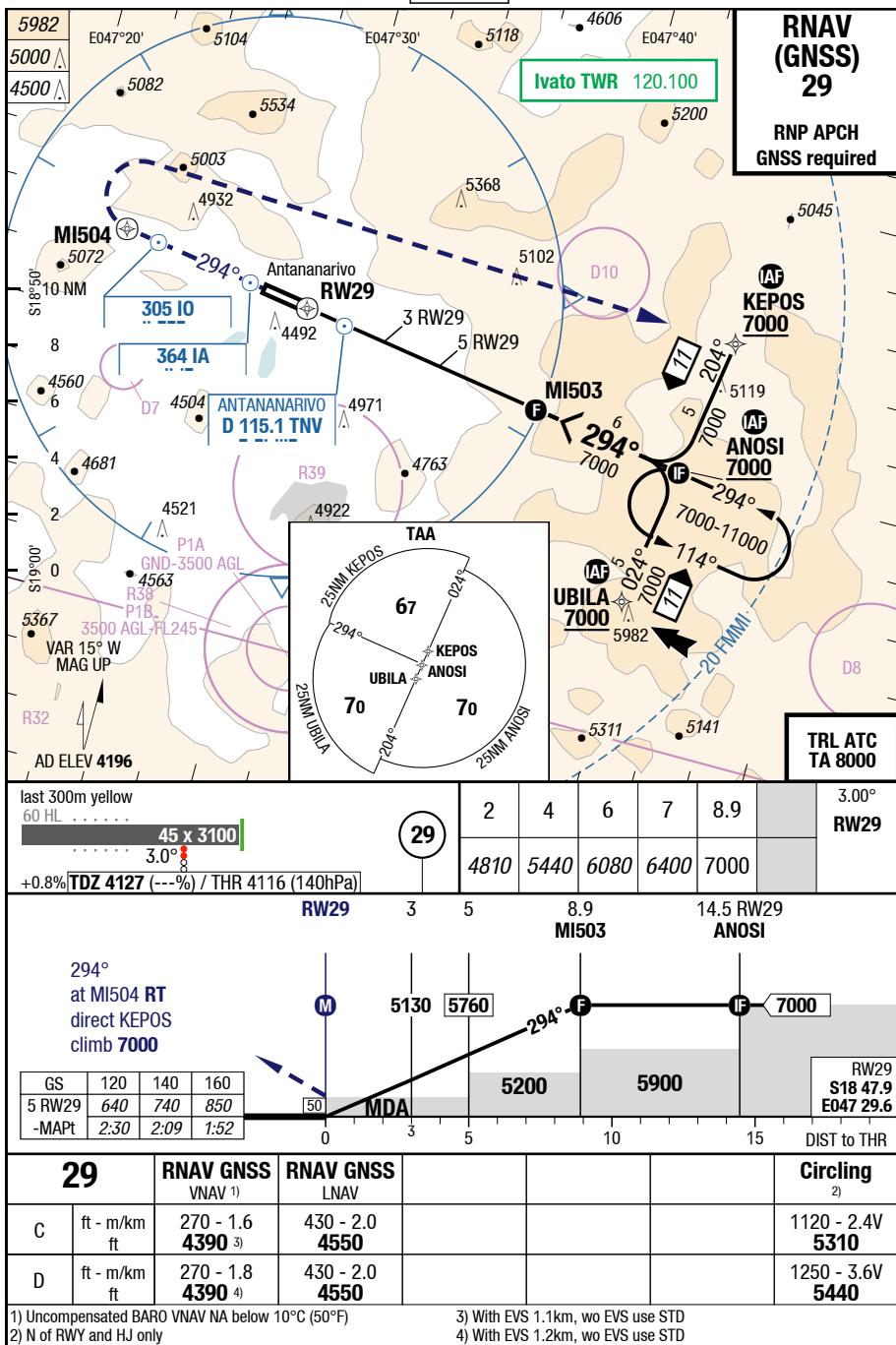
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7-60

RNAV (GNSS) 29



Changes: APL, TDZE, OBST, AD ELEV

22-FEB-2018

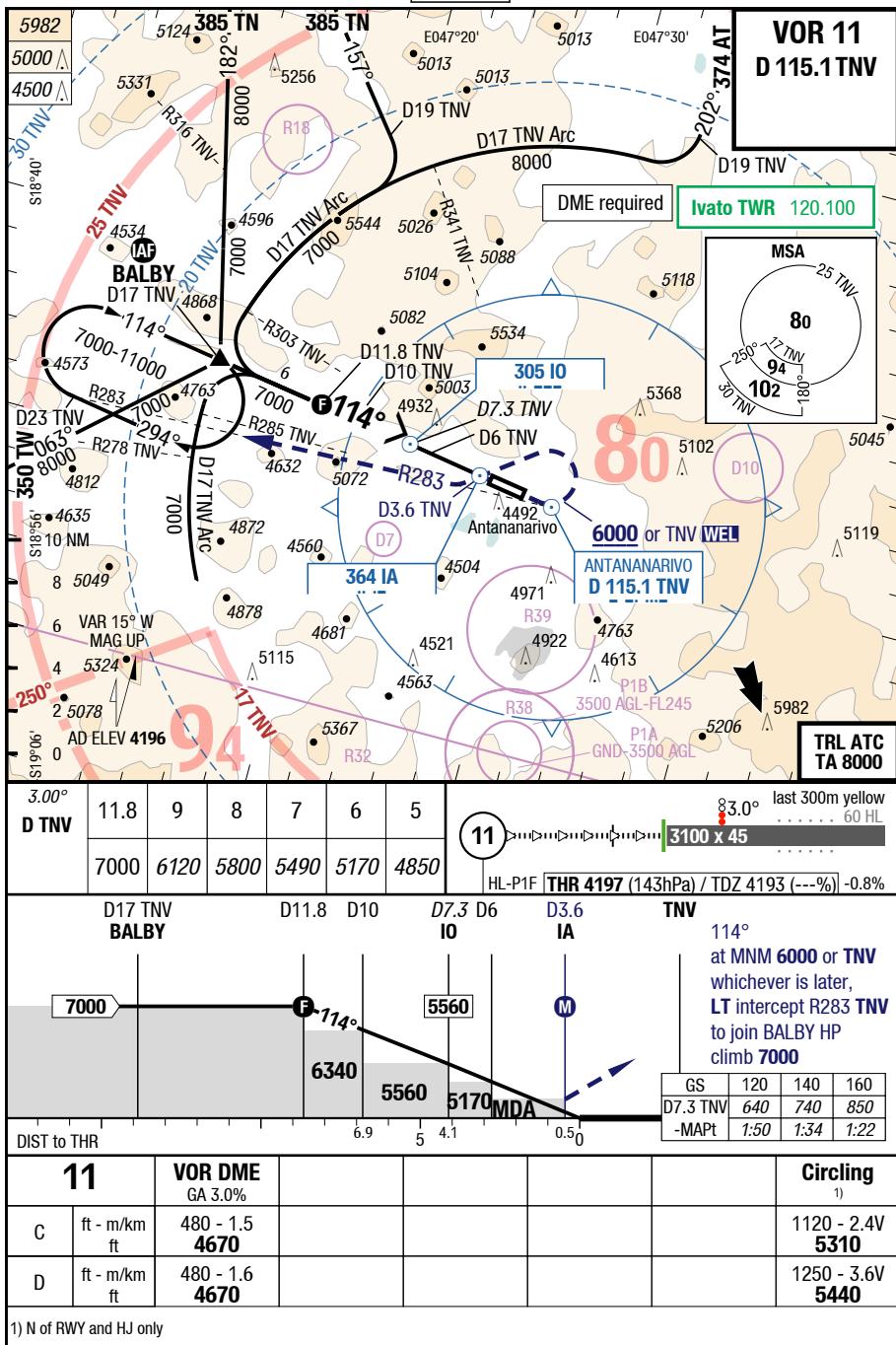
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7-70

VOR 11



Changes: TDZE, ALT, OBST, MISAP text, AD ELEV

22-FEB-2018

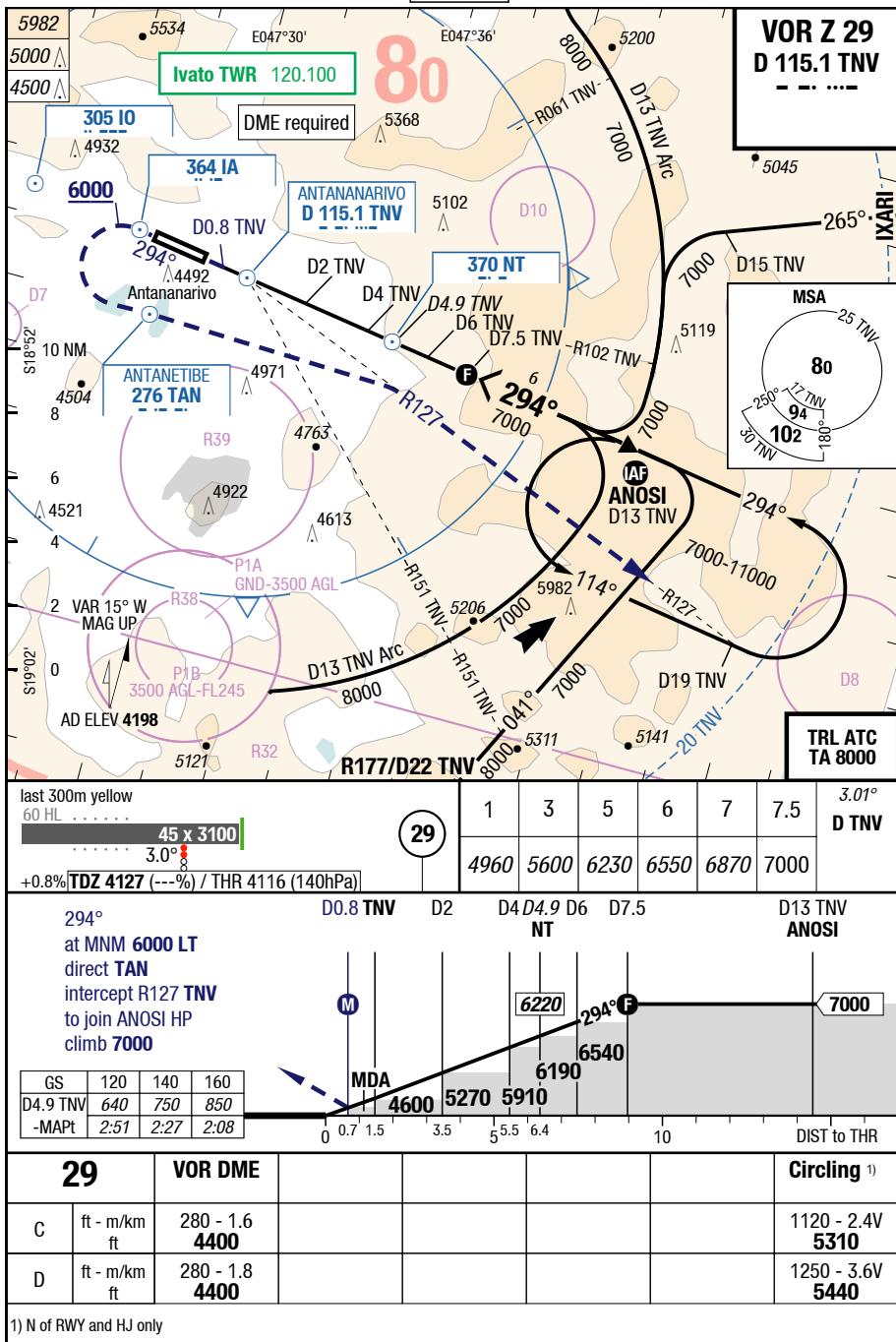
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IAC

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7-80

VOR Z 29



Changes: APL, TDZE, ALT, OBST, MISAP text, AD ELEV

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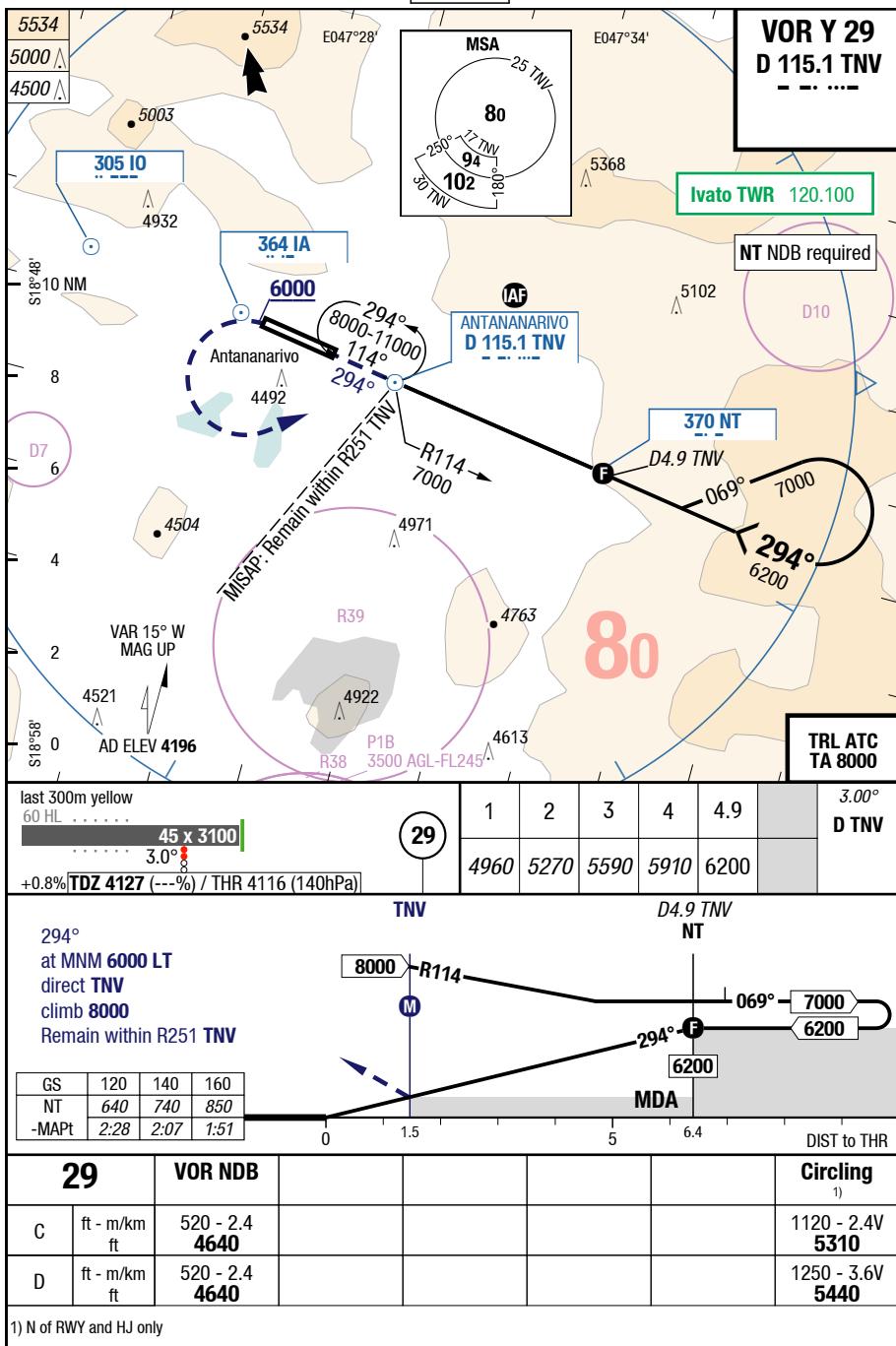
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7-90

VOR Y 29



Changes: APL, TDZE, ALT, OBST, MISAP text, AD ELEV

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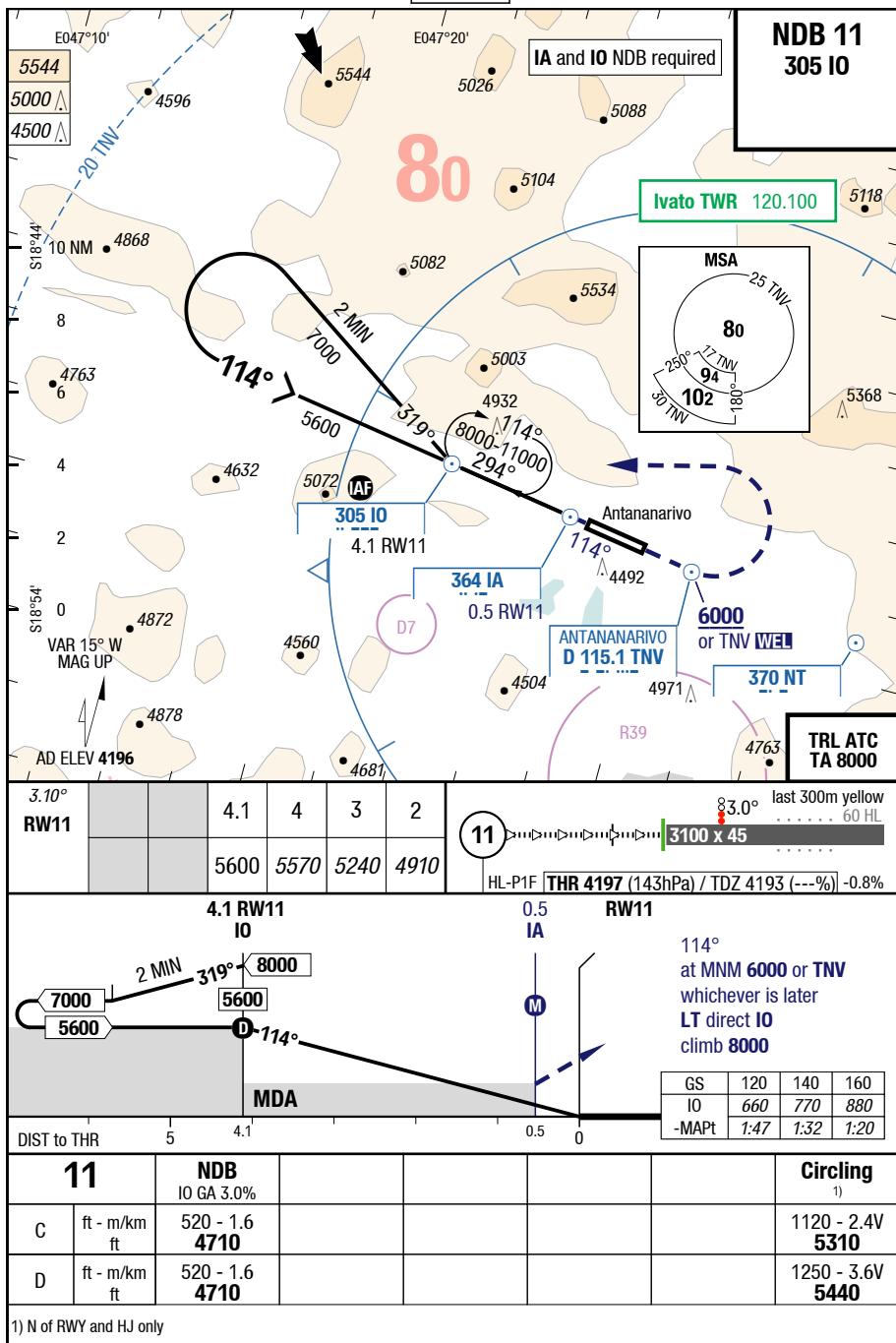
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7-100

NDB 11



Changes: TDZE, ALT, OBST, MISAP text, AD ELEV

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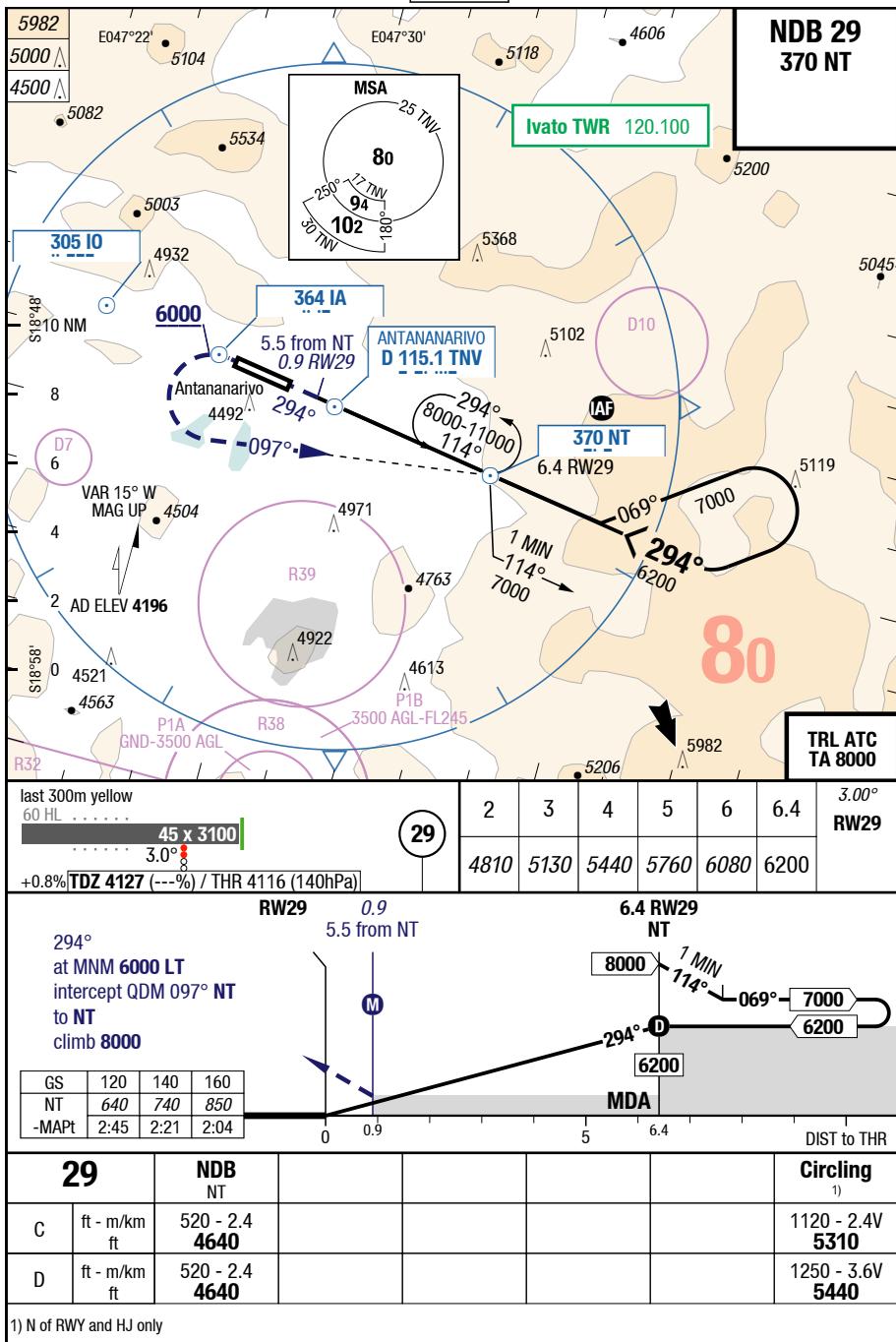
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7-110

NDB 29



Changes: APL, TDZE, ALT, OBST, MISAP text, AD ELEV

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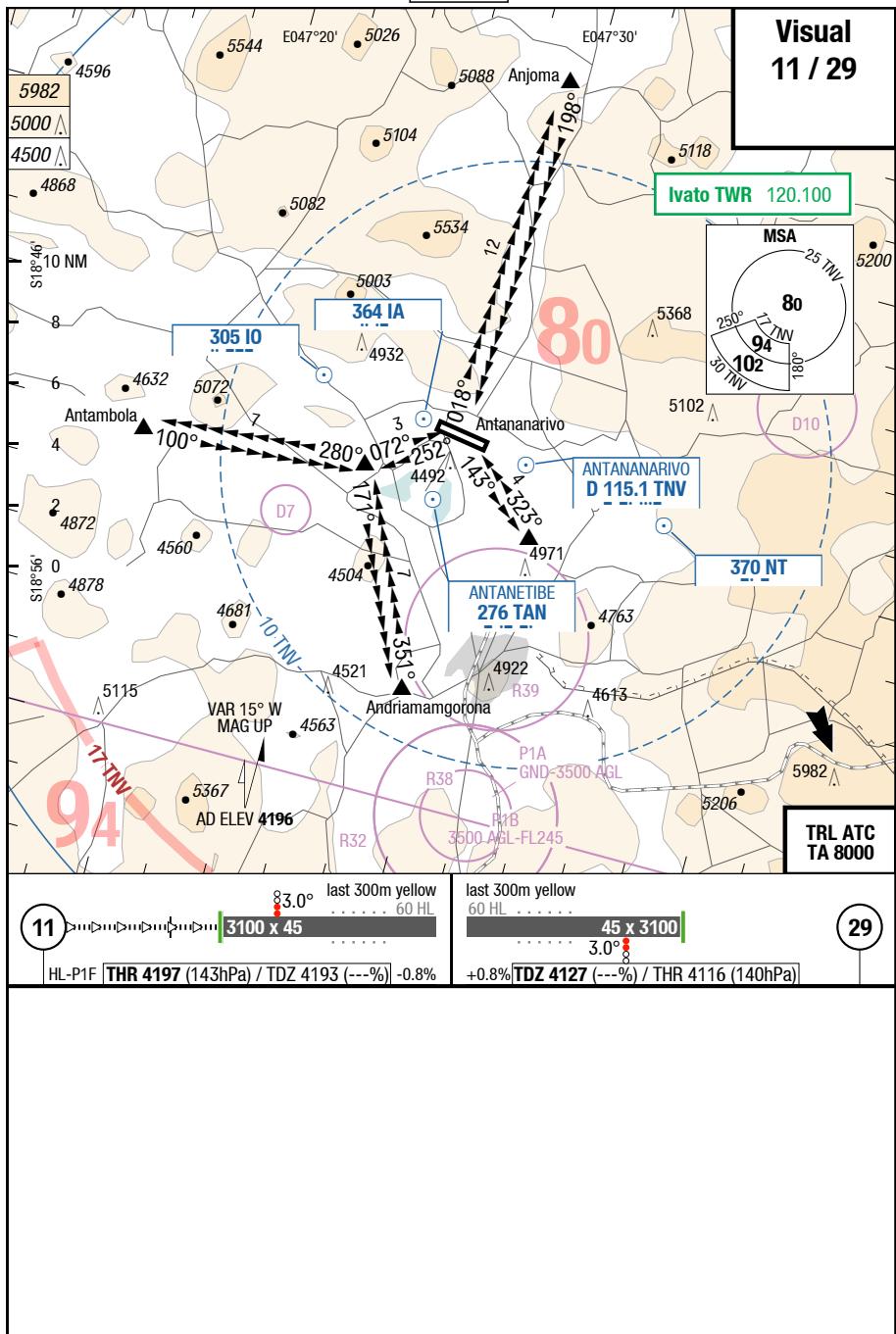
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7-120

Visual 11 / 29

VAC



22-MAR-2018

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3-10

MRC

Ivato **Antananarivo** Madagascar

MRC

