

14-SEP-2017

MAO-SBEG

1-10

A0I**A0I****GENERAL****Operational Hours****ATS Hours:** H24**AD Operator Hours:** MON-FRI 1200-2100**Airport Information****RFF:** CAT 9**PCN:** RWY 11/29: 71/F/C/X/T**Warnings****MNS DME** unusable: R105-R245**ARRIVAL****Communication****COM Failure****RNAV RWY 11****ALBIP 1A**

Complete arrival up to EDNIL and execute procedure authorized by ATC.

IRUMO 1A, MOLDO 1A

Complete arrival up to ARSOS and execute procedure authorized by ATC.

KULAB 1A, SEMLA 1A

Complete arrival until MAPMO and execute procedure authorized by ATC. Or, if under vectoring on HDG 286°, maintain this HDG, MNM ALT 4000ft until D25 MNS. Then, turn left to intercept ILS final approach RWY 11.

RNAV RWY 29**ALBIP 1B, SEMLA 1B**

Complete arrival until DAGTI and execute procedure authorized by ATC. Or, if under vectoring on HDG 106°, maintain this HDG, MNM ALT 4000ft until D25 MNS. Then, turn right to intercept ILS final approach RWY 29.

IRUMO 1B, MOLDO 1B

Complete arrival up to GELAG and execute procedure authorized by ATC.

KULAB 1B

Complete arrival up to EG011 and execute procedure authorized by ATC.

Arrival Procedure**Non-standard GP Intercept Position on RWY 11**GP intercepts RWY 11 at *361m / 1183ft* after landing threshold.Remaining LDG DIST beyond GP is *2339m / 7675ft*.

DEPARTURE**| Take-off Minima**

RWY		11	
Multi ENG	ft-m/km	RNAV SIDs: EKUTU 1A, GAVAP 1A, MUGIB 1A, PUDPO 1A, ROPAB 1A, SIGEP 1A, UTPAM 1A	
		0 - 400R	TKOF ALTN AVBL, HJ only, LVTO with HGS
		0 - 500R/600V	TKOF ALTN AVBL, HJ only
		0 - 800R/800V	TKOF ALTN AVBL, HN
		All other departures	
		0 - 500R/600V	TKOF ALTN AVBL, HJ only
		0 - 800R/800V	TKOF ALTN AVBL, HN
All ACFT		c600 - 1.6V	-
RWY		29	
Multi ENG	ft-m/km	RNAV SID GAVAP 1B	
		0 - 400R	TKOF ALTN AVBL, HJ only, LVTO with HGS
		0 - 500R/600V	TKOF ALTN AVBL, HJ only
		0 - 800R/800V	TKOF ALTN AVBL, HN
		All other departures	
		0 - 500R/600V	TKOF ALTN AVBL, HJ only
		0 - 800R/800V	TKOF ALTN AVBL, HN
All ACFT		c600 - 1.6V	-

Effective 01-MAR-2018

22-FEB-2018

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AGC

AFC

AFC

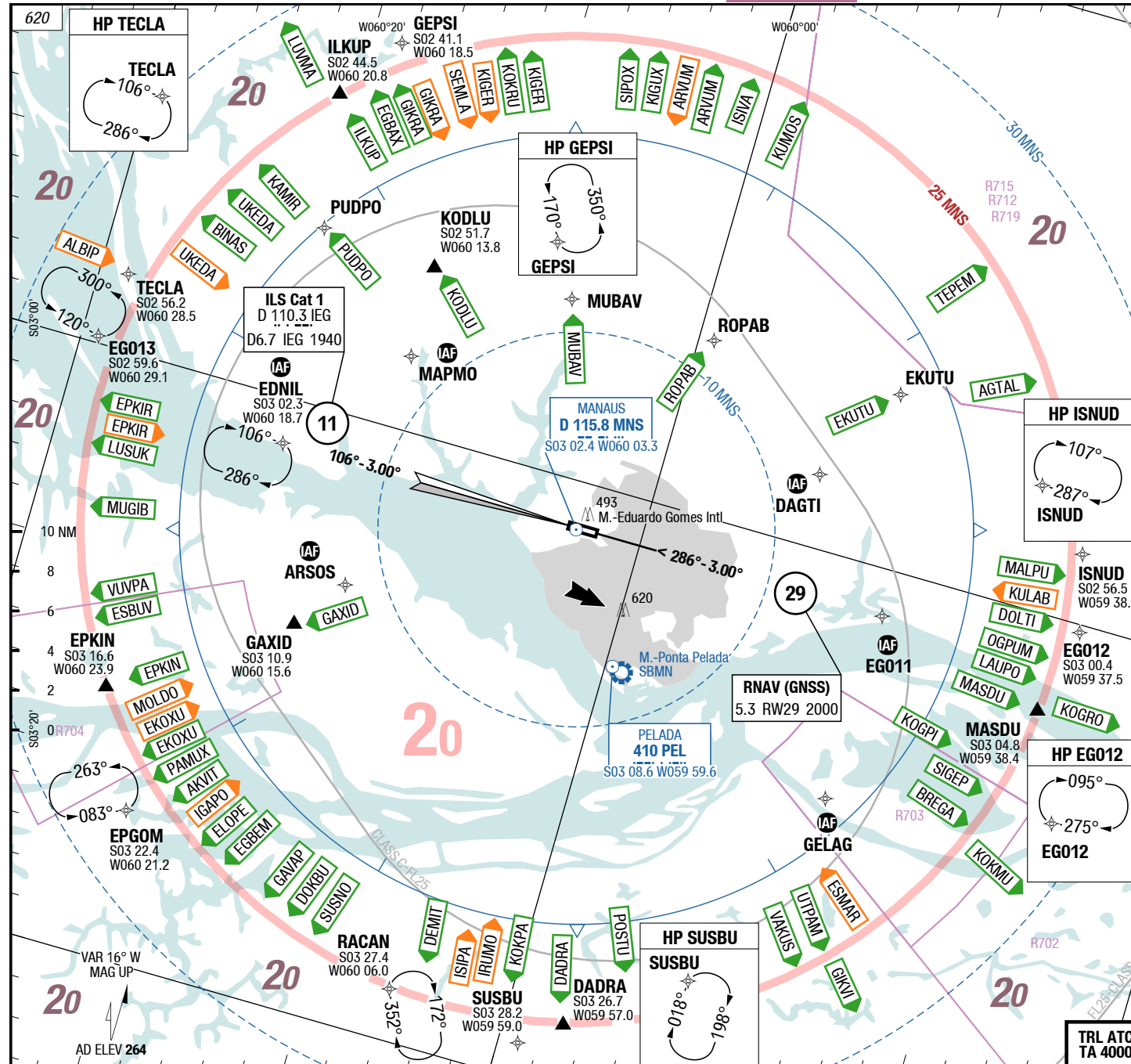
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AGC

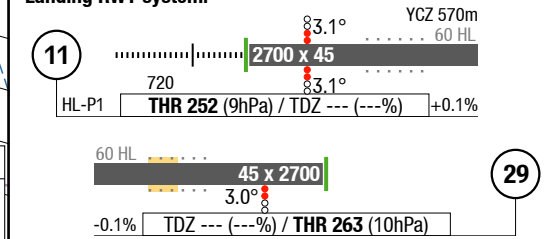
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2-10



D-ATIS	127.650
Amazonico ACC	125.400
	134.700
	125.800
	126.100
APP	119.250
	119.700
	120.400
Eduardo Gomes TWR	118.300
Eduardo Gomes GND	121.900
OPS	122.500
DCL	

Landing RWY system:



Changes: THR ELEV

22-FEB-2018

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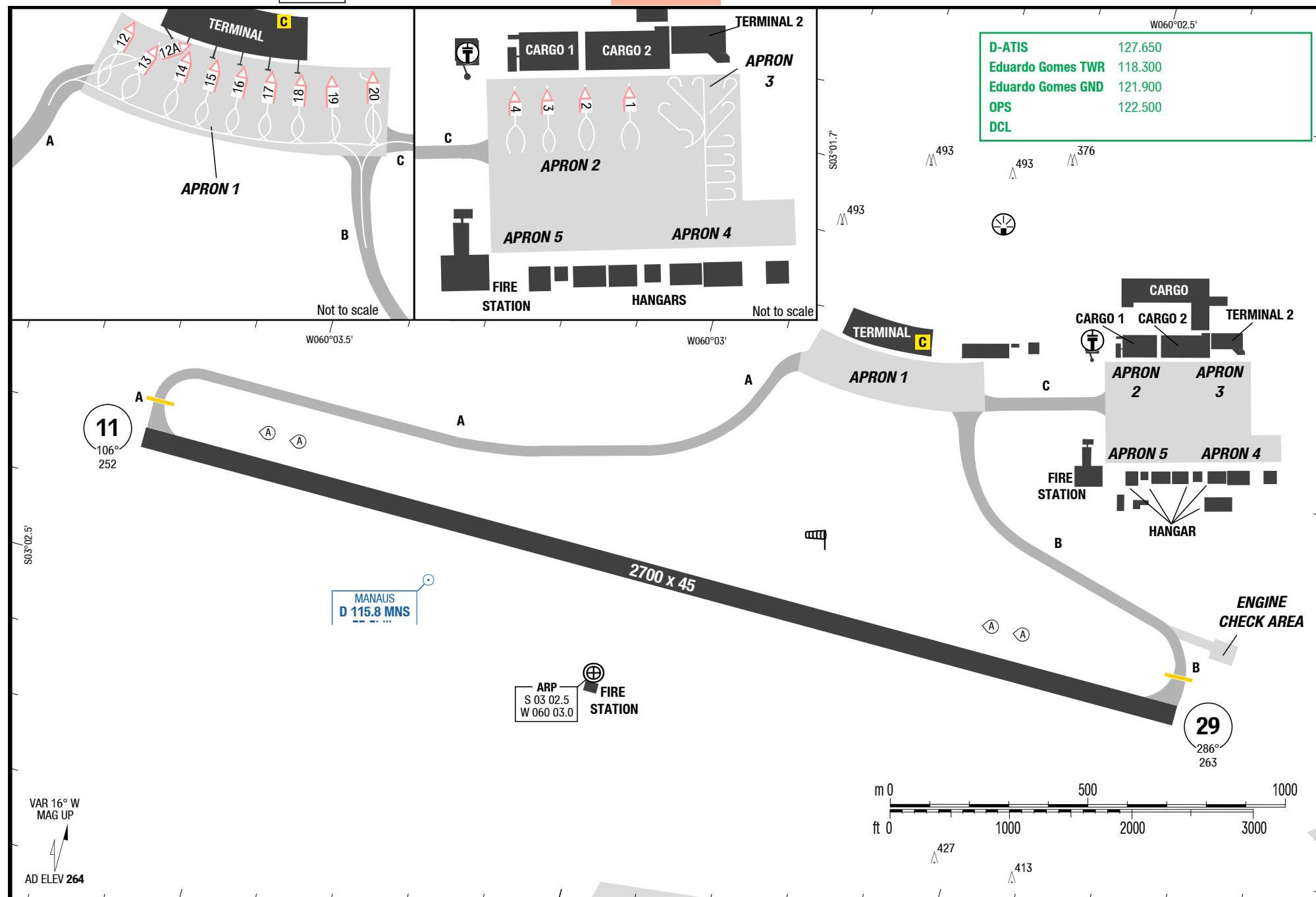
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3-20

AGC

AGC

Changes: THR ELEV, OBST

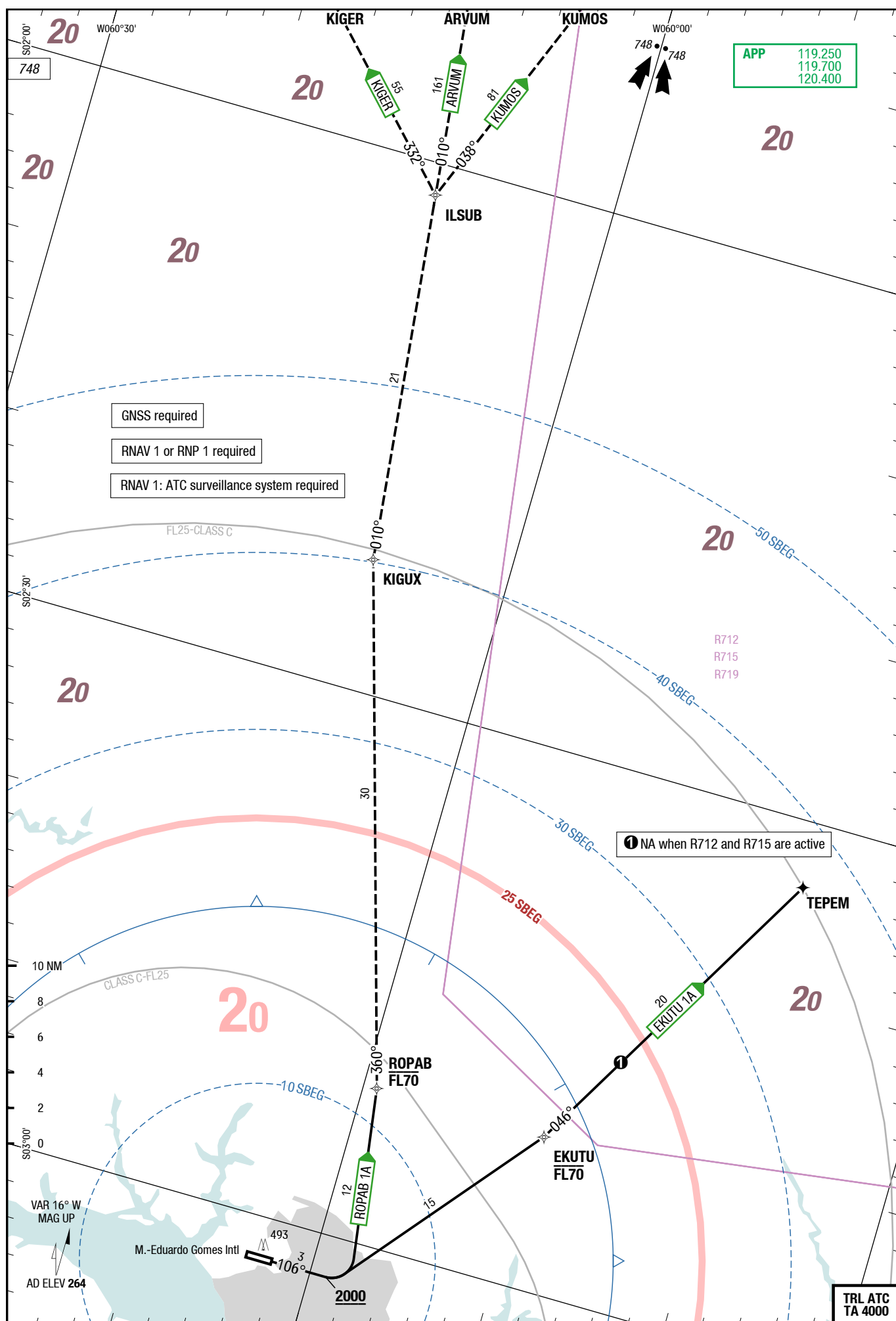
Effective 17-AUG-2017
10-AUG-2017
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Brazil: Manaus Eduardo Gomes Intl
[RNAV 11 GAVAP 1A]
4-10 RNAV 11 EKUTU 1A/ ROPAB 1A

SID

SID

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[RNAV 11 GAVAP 1A]
RNAV 11 EKUTU 1A/ ROPAB 1A



10-AUG-2017

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4-20

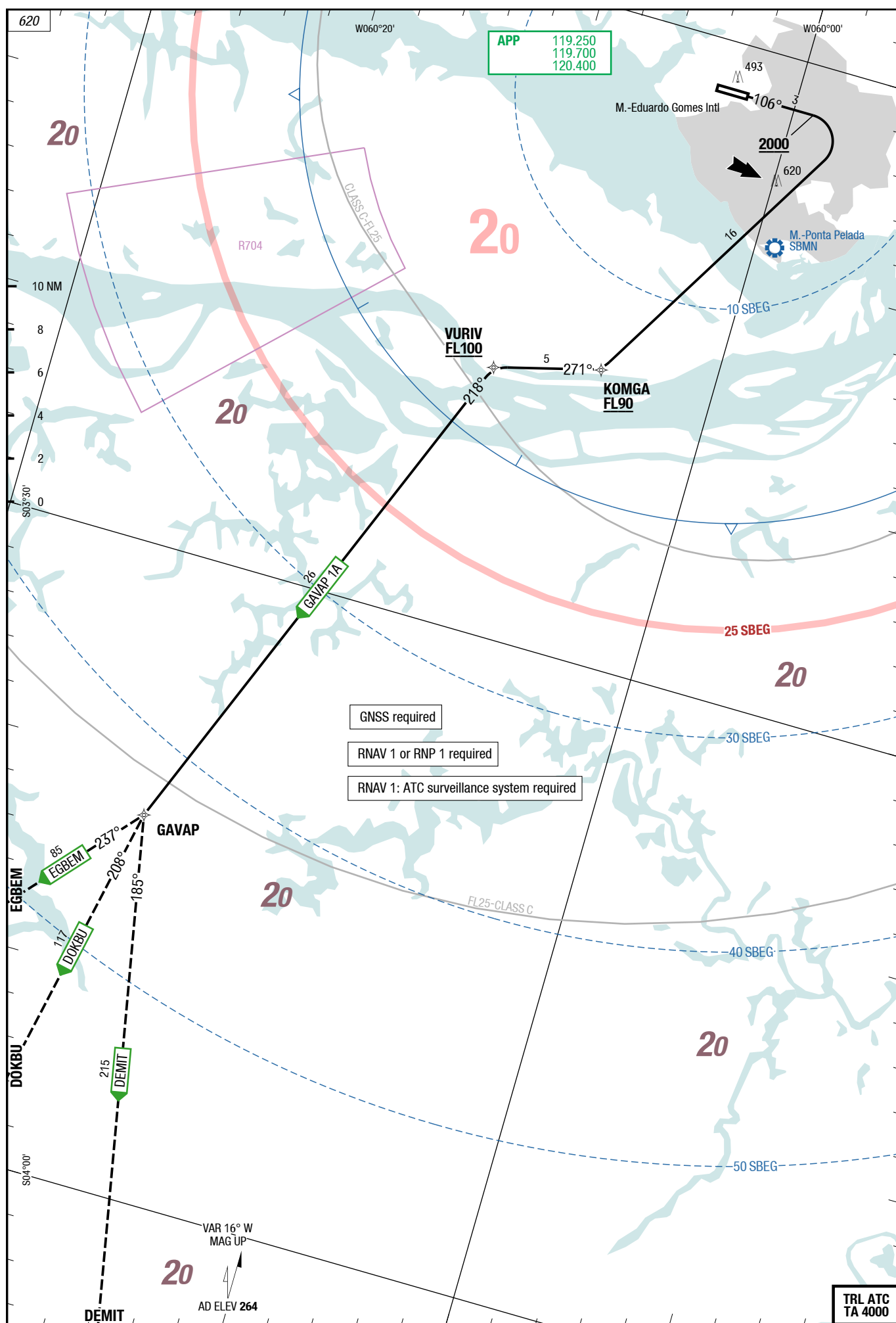
RNAV 11 GAVAP 1A

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RNAV 11 GAVAP 1A



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RNAV 11 PUDPO 1A

4-30

RNAV 11 MUGIB 1A

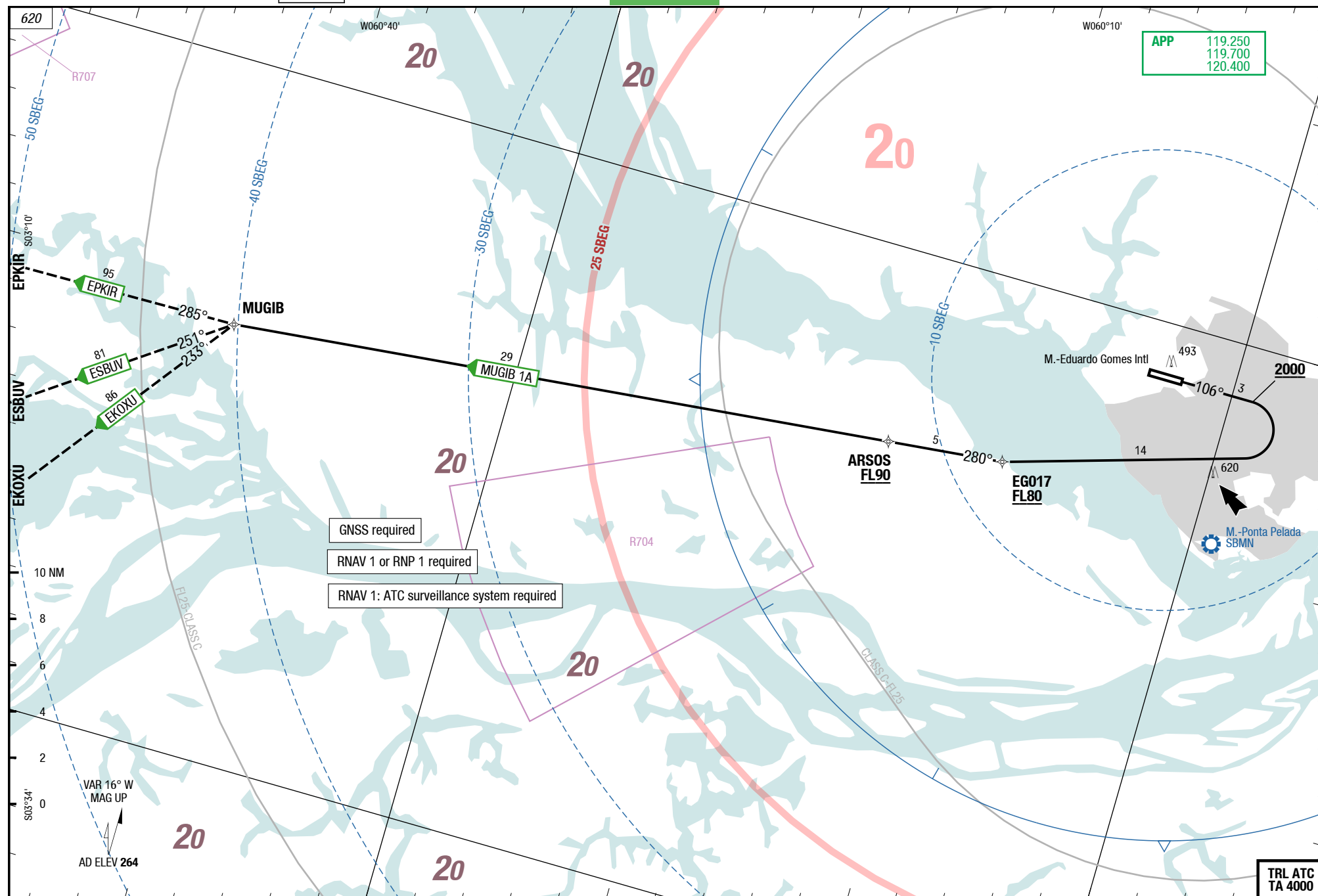
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RNAV 11 PUDPO 1A

RNAV 11 MUGIB 1A



Changes: new

TRL ATC
TA 4000

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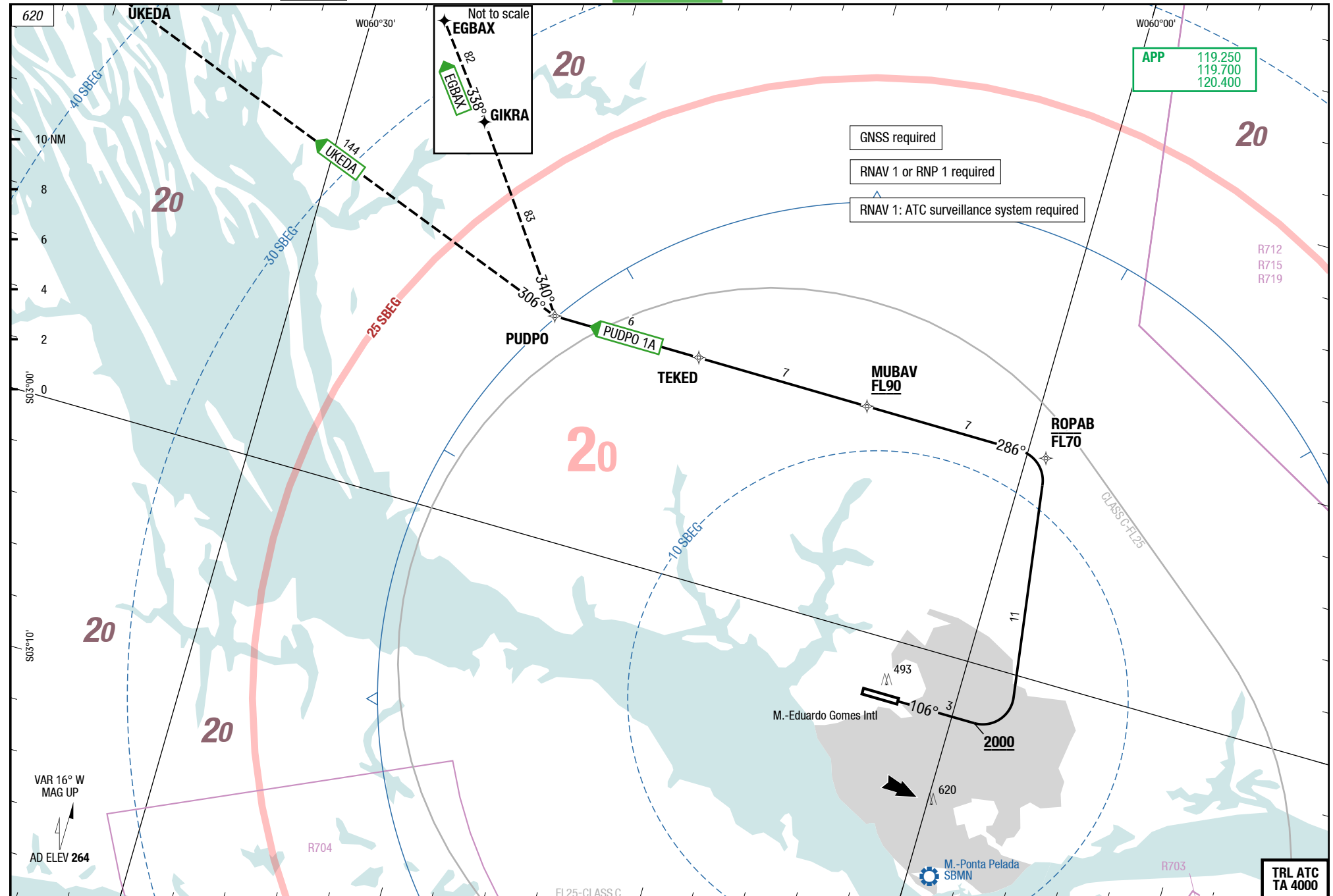
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SID

RNAV 11 PUDPO 1A

4-40

RNAV 11 PUDPO 1A

Changes: new

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[RNAV 29 GAVAP 1B]

4-50

RNAV 11 SIGEP 1A/ UTPAM 1A

SID

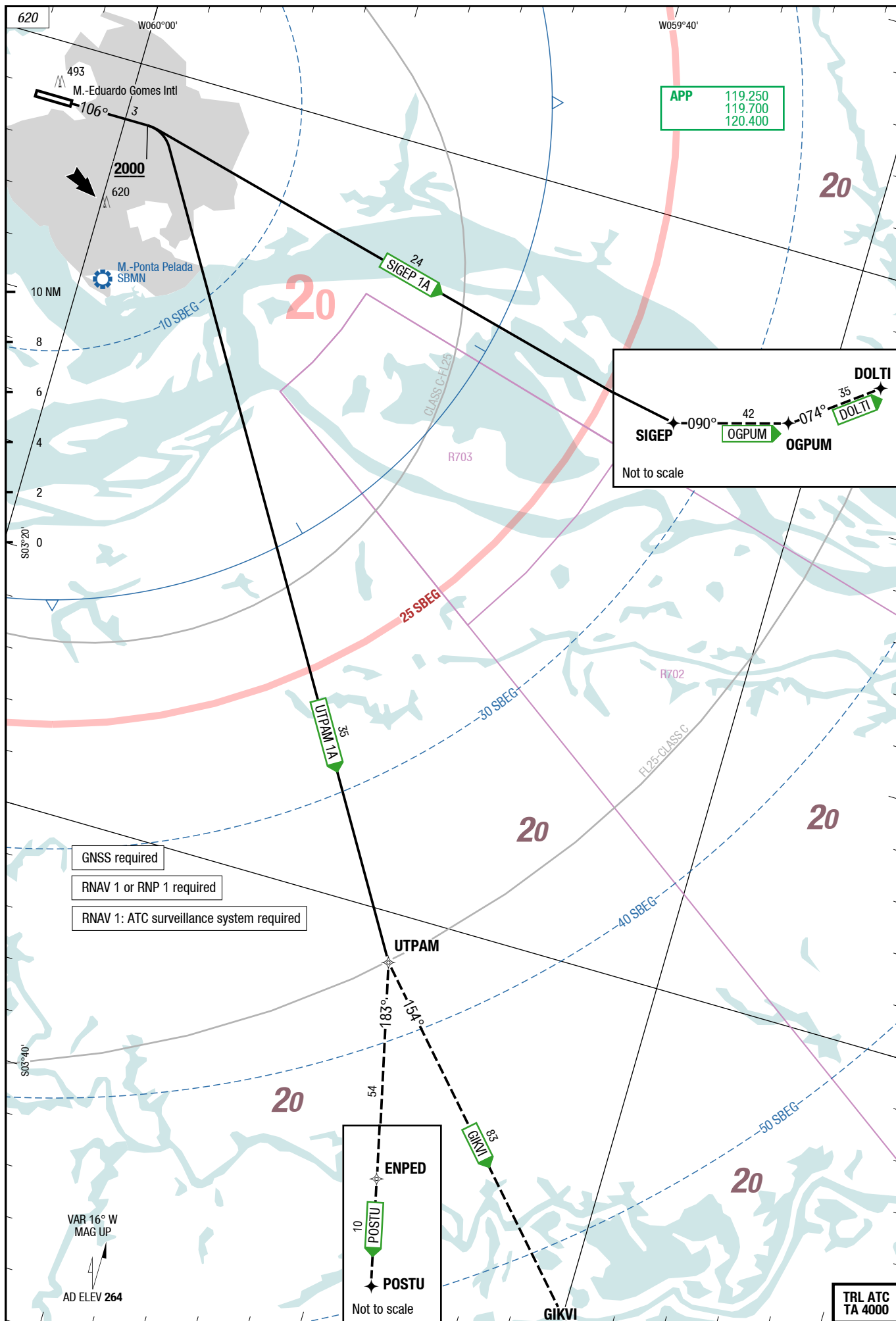
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[RNAV 29 GAVAP 1B]

RNAV 11 SIGEP 1A/ UTPAM 1A

TRL ATC
TA 4000



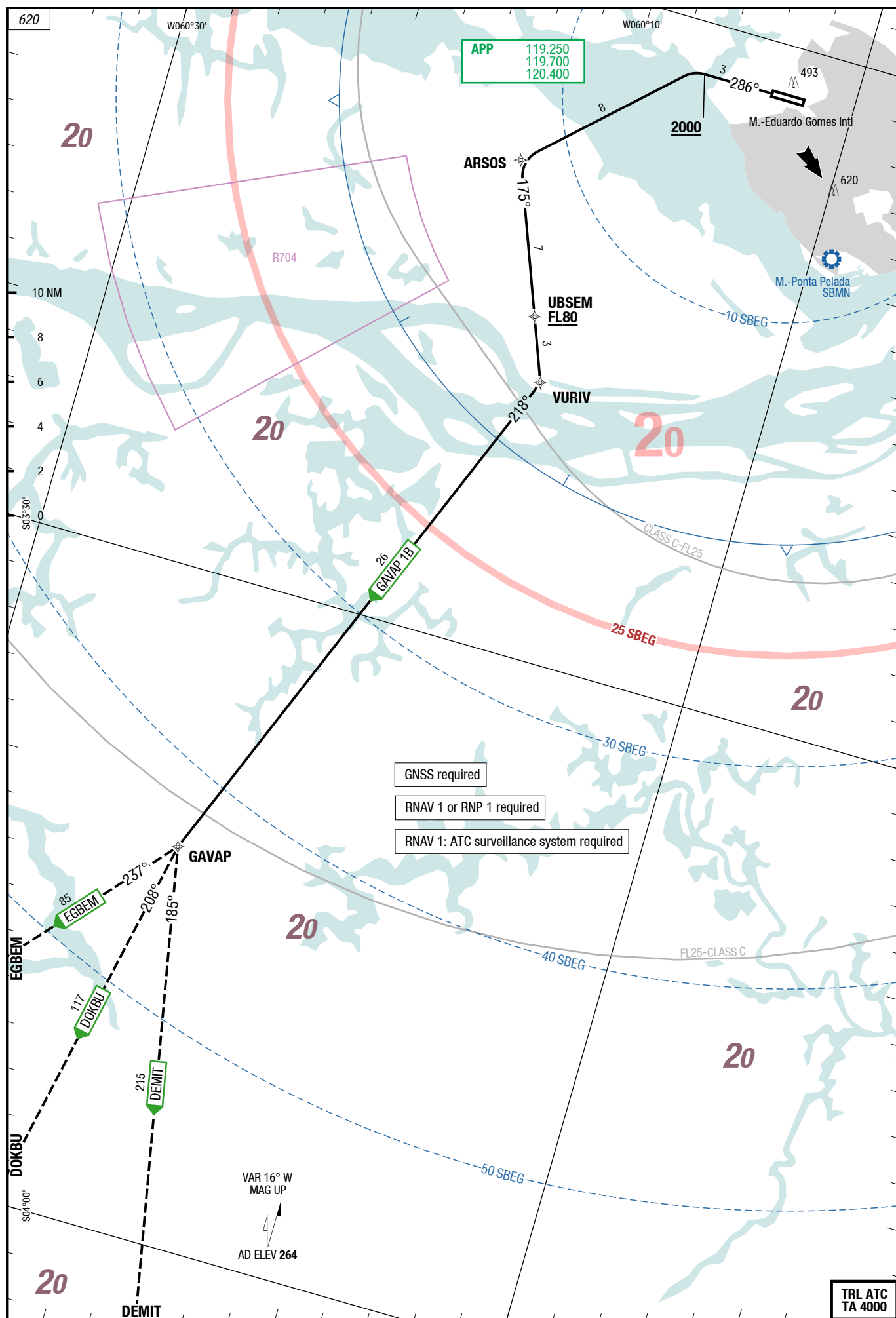
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RNAV 29 GAVAP 1B

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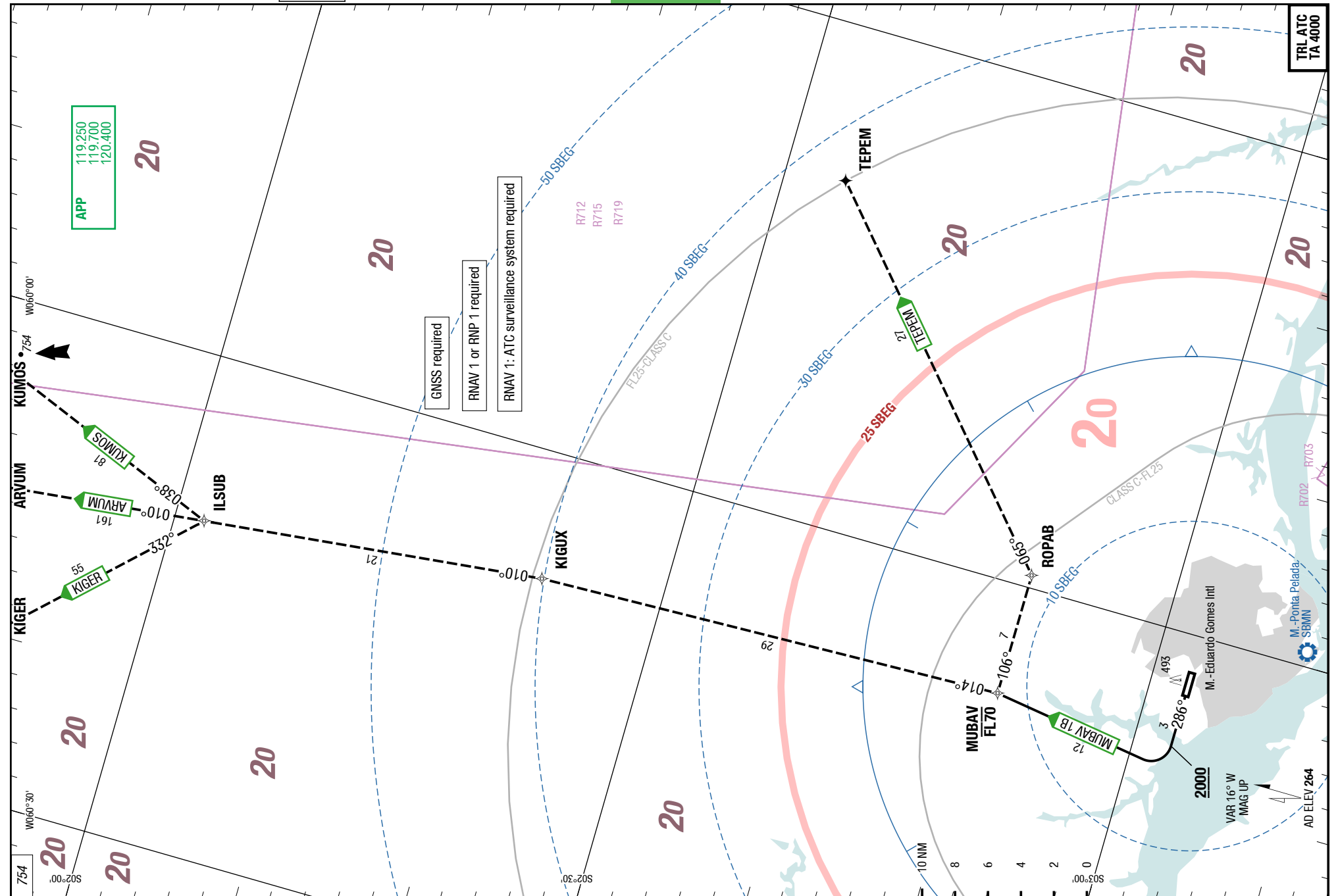
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RNAV 29 MUBAV 1B

SID

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RNAV 29 MUBAV 1B



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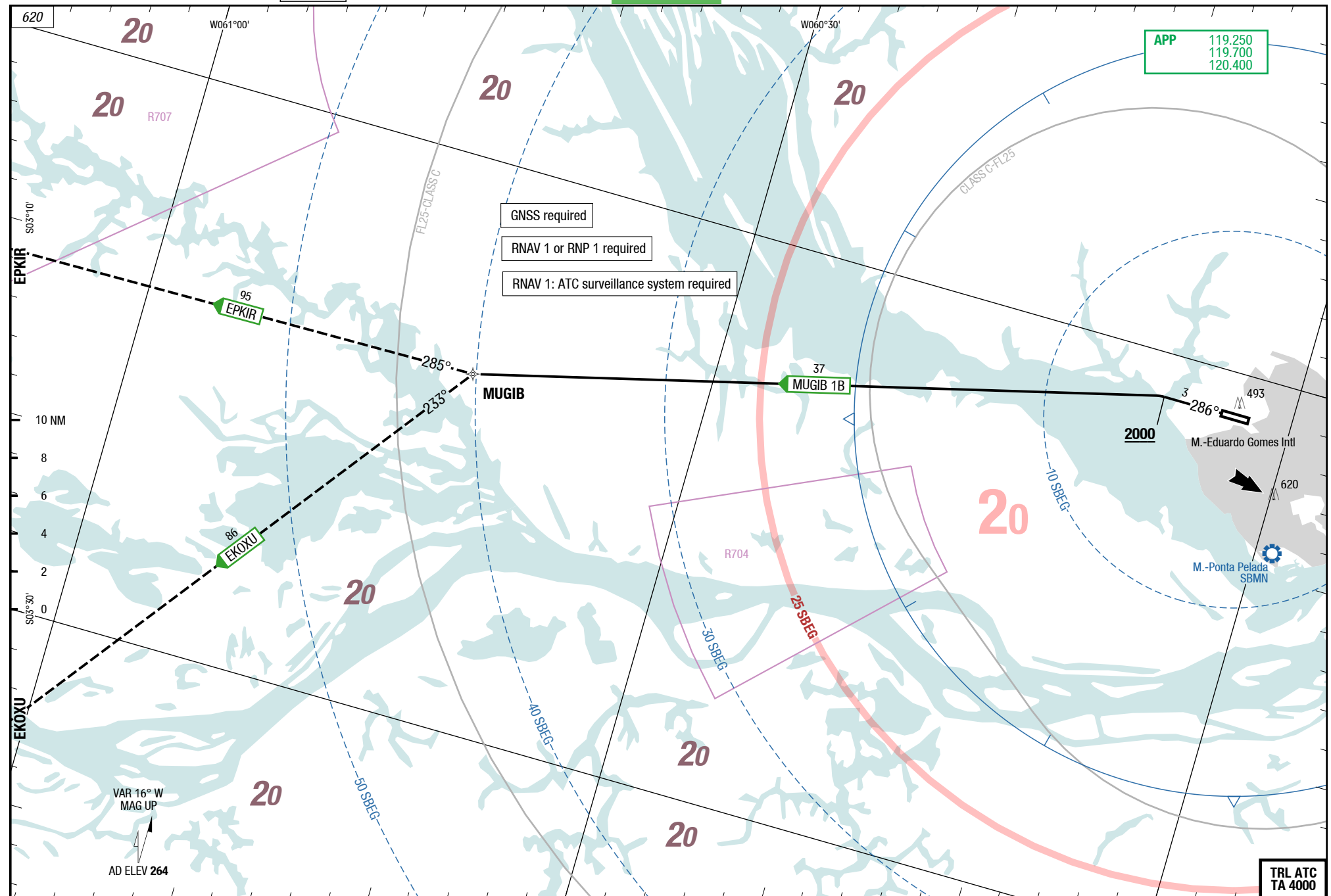
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RNAV 29 MUGIB 1B

4-80

RNAV 29 MUGIB 1B

Changes: new

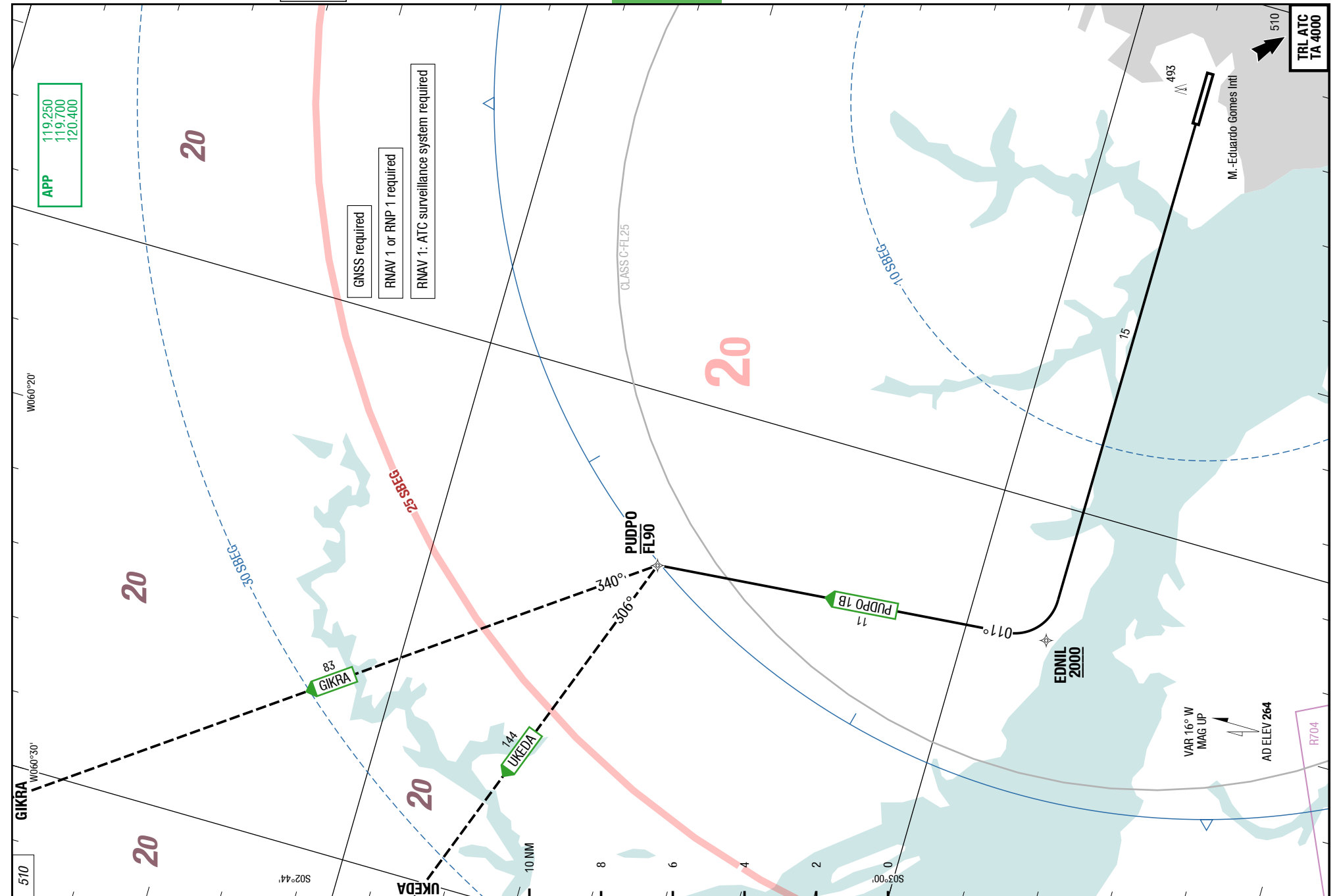
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SID

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RNAV 29 PUDPO 1B



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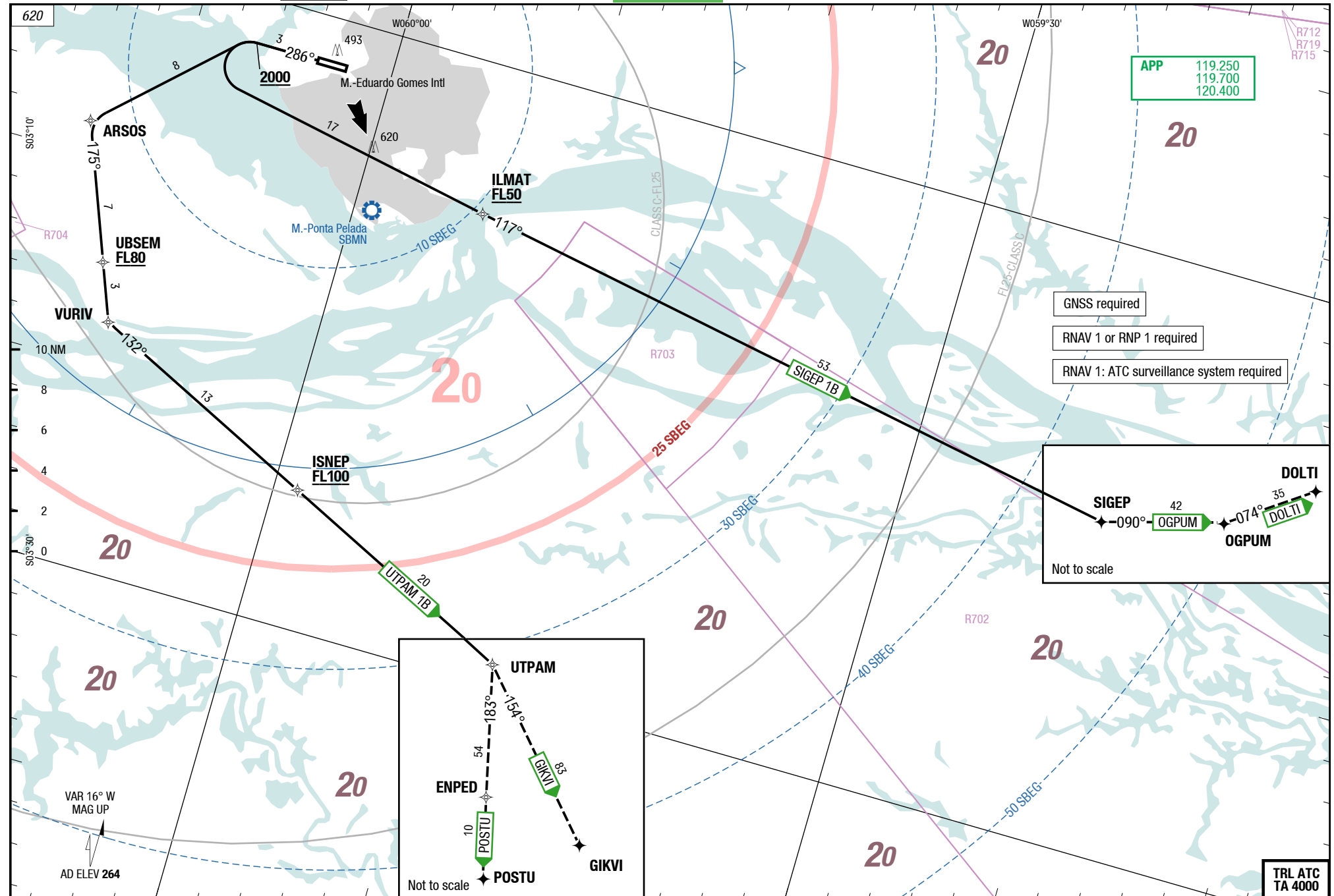
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4-100

RNAV 29 SIGEP 1B/ UTPAM 1B

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RNAV 29 SIGEP 1B/ UTPAM 1B

Changes: new

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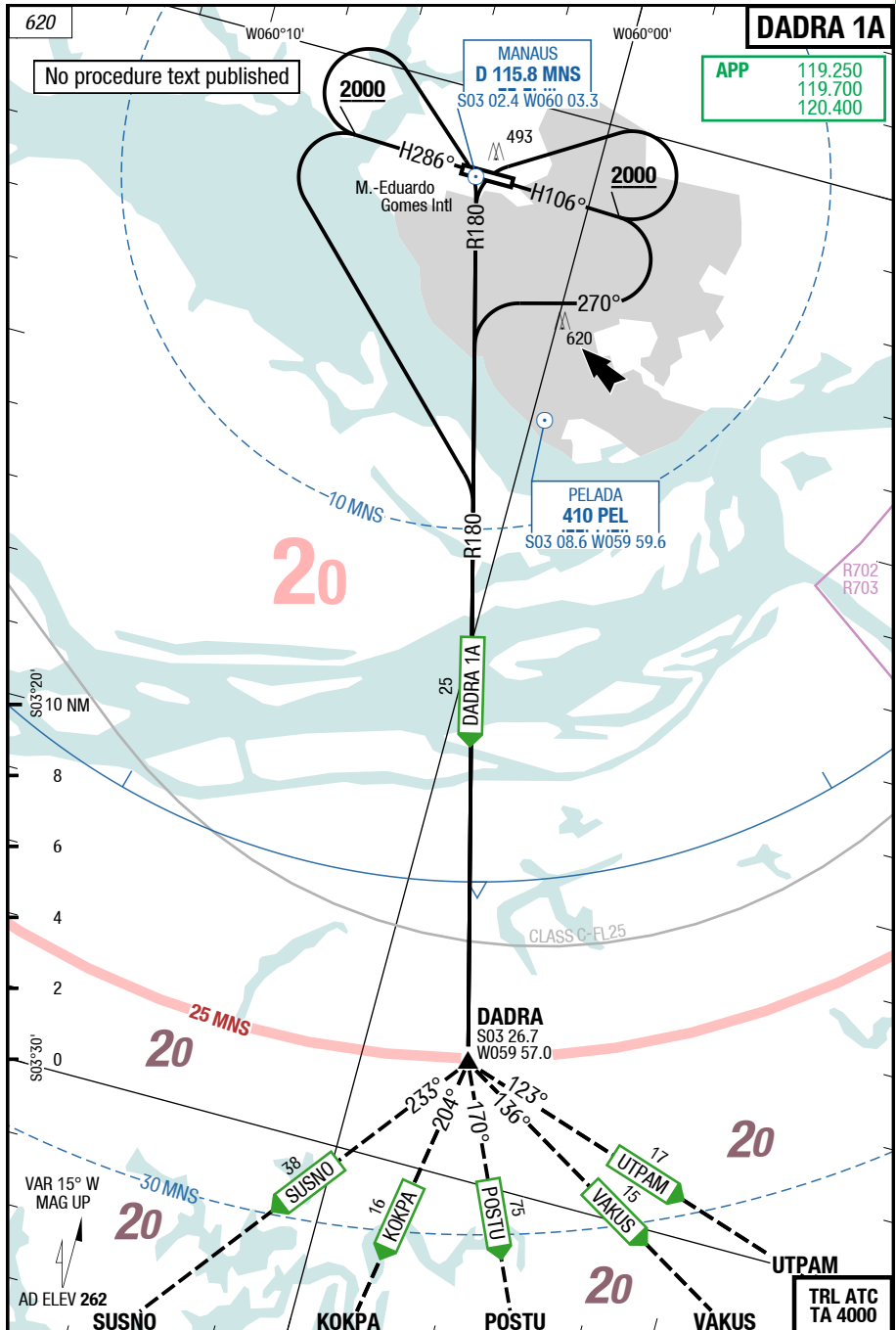
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4-110

DADRA 1A



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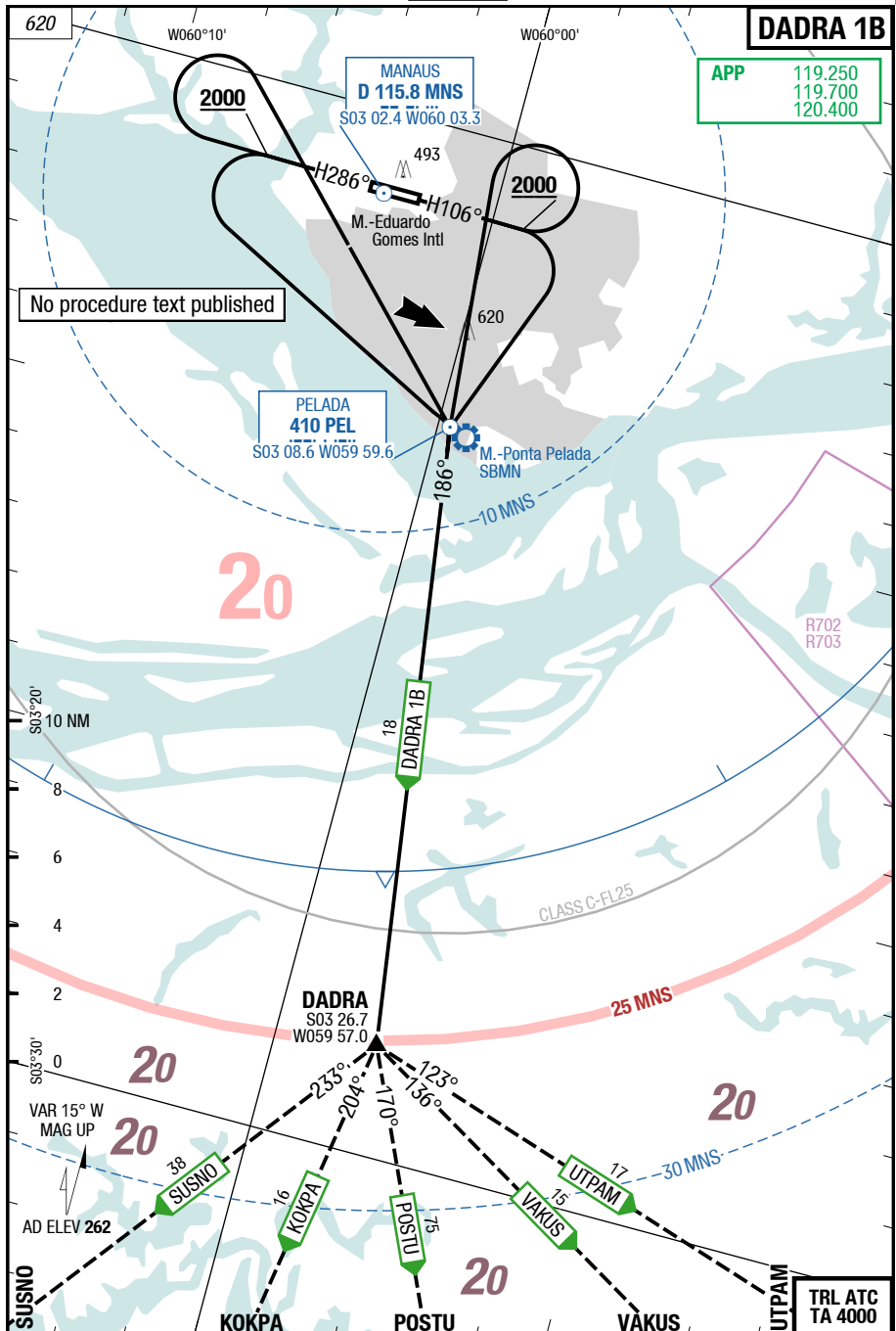
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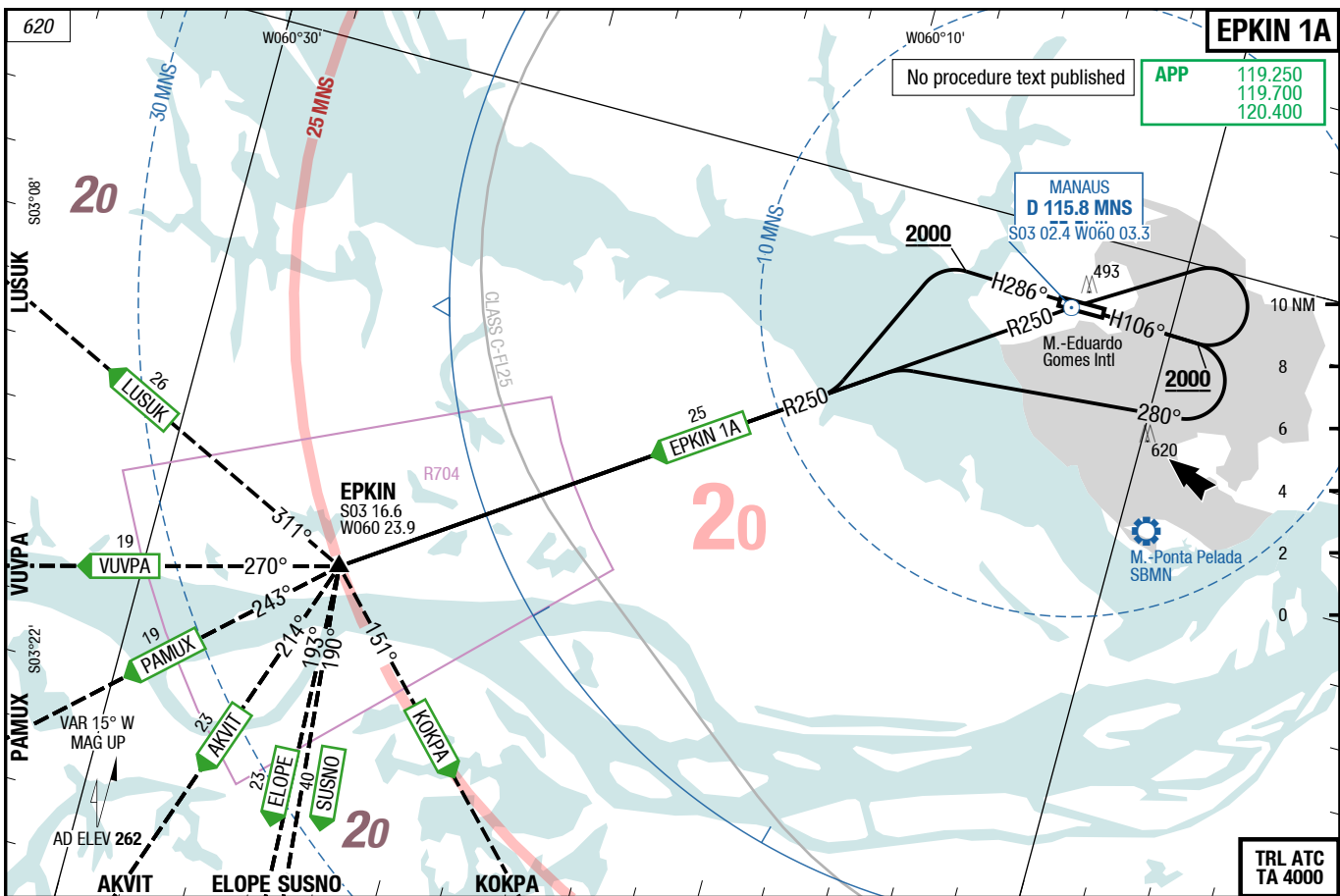
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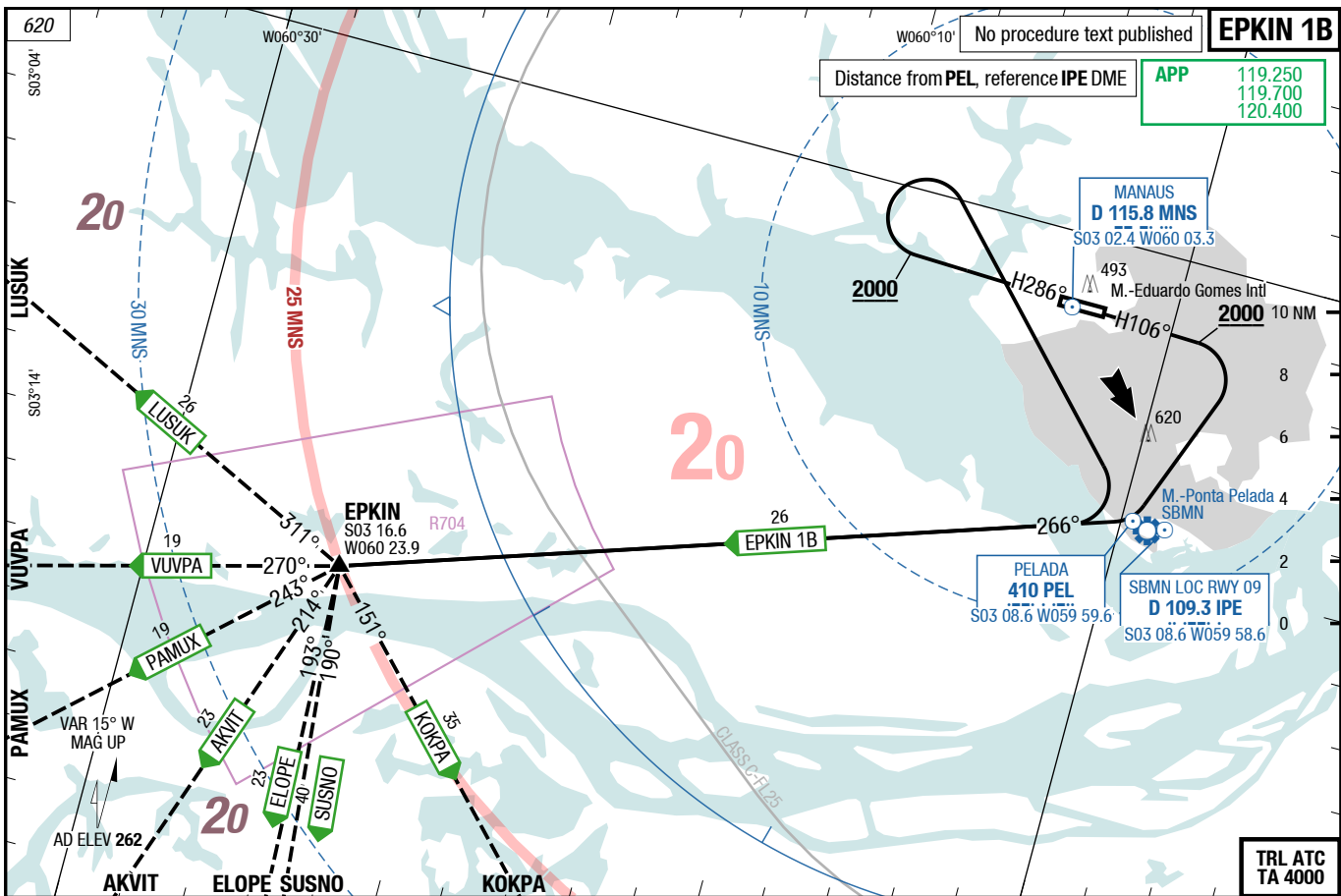
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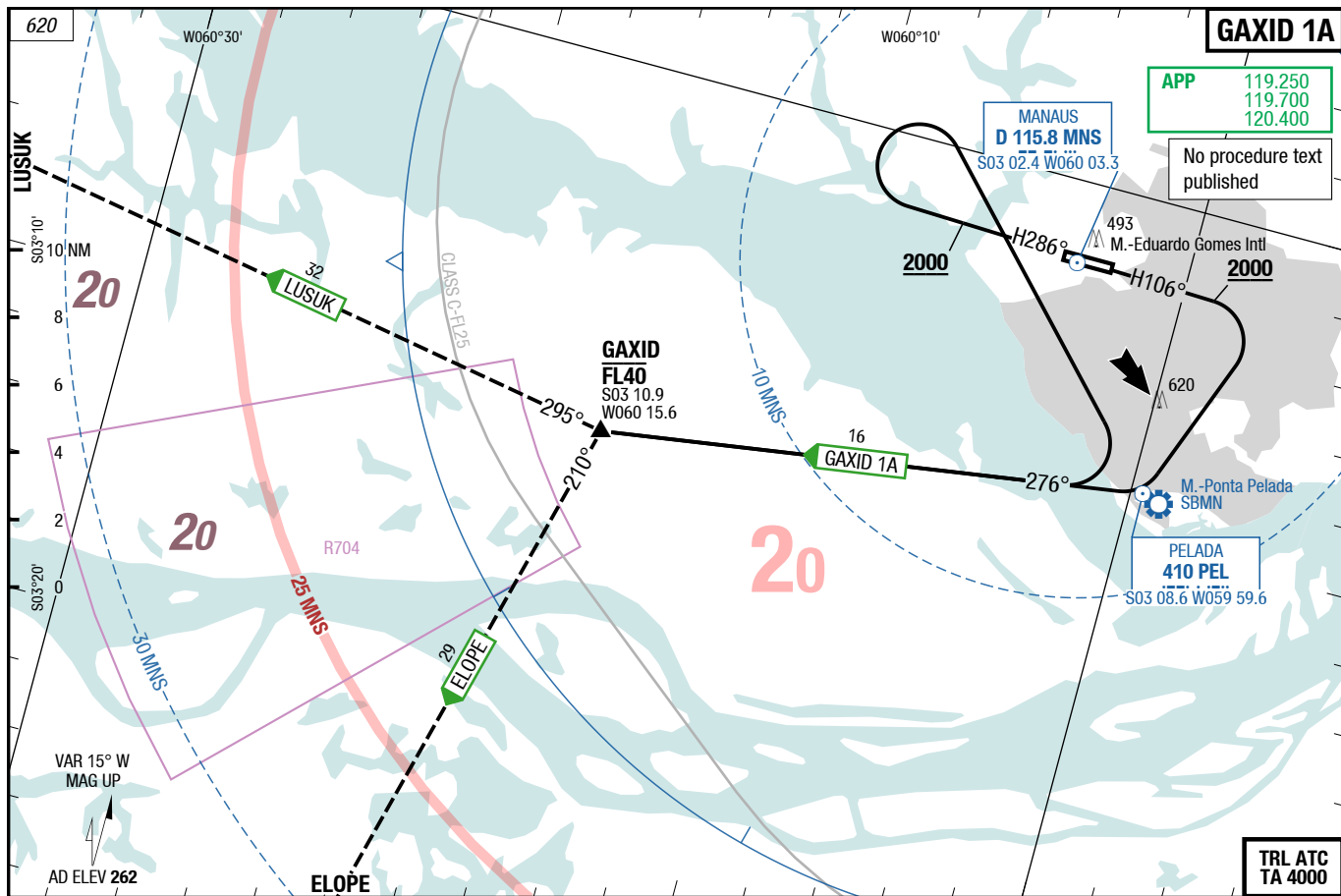
DADRA 1B



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1

GAXID 1B

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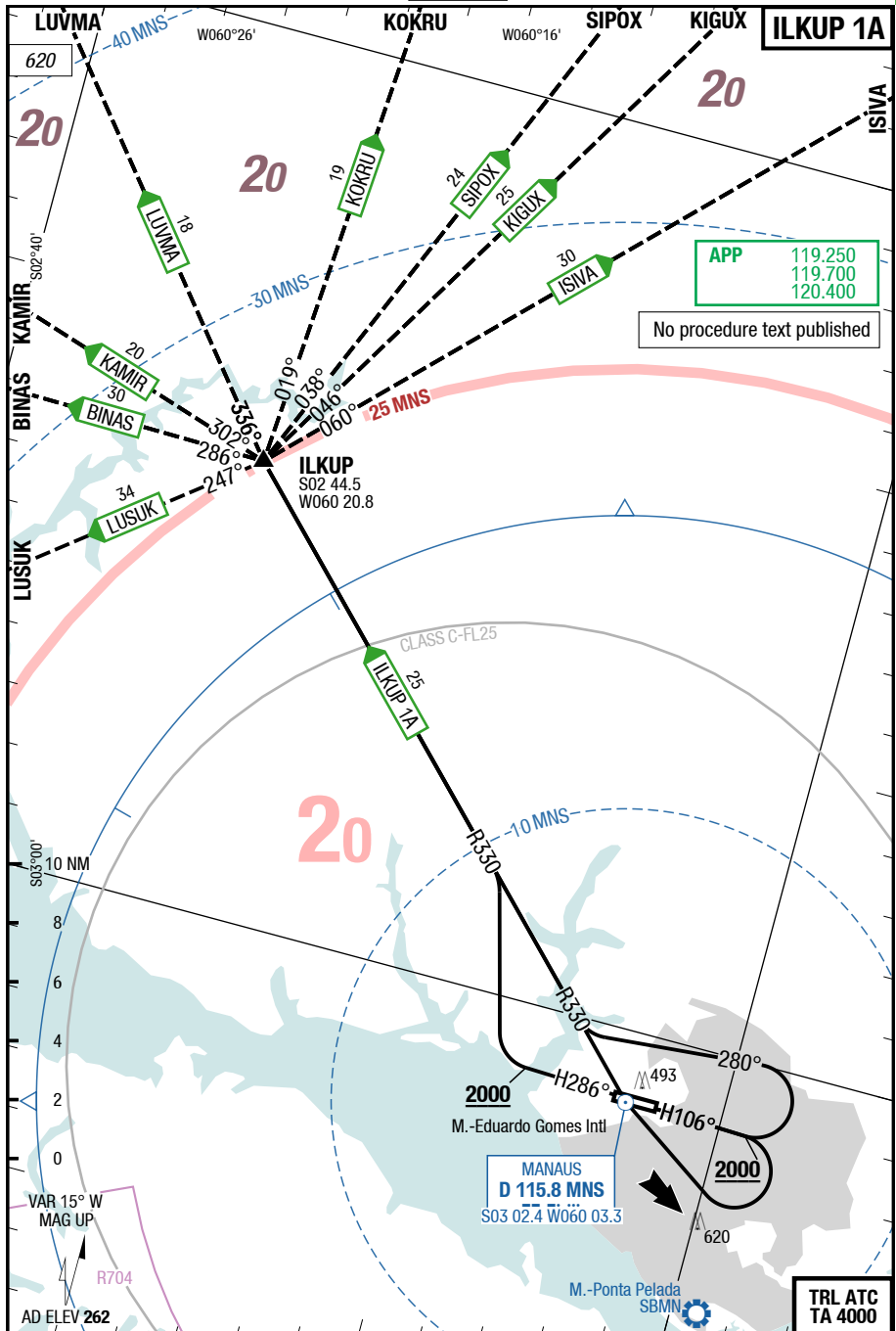
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4-170

ILKUP 1A



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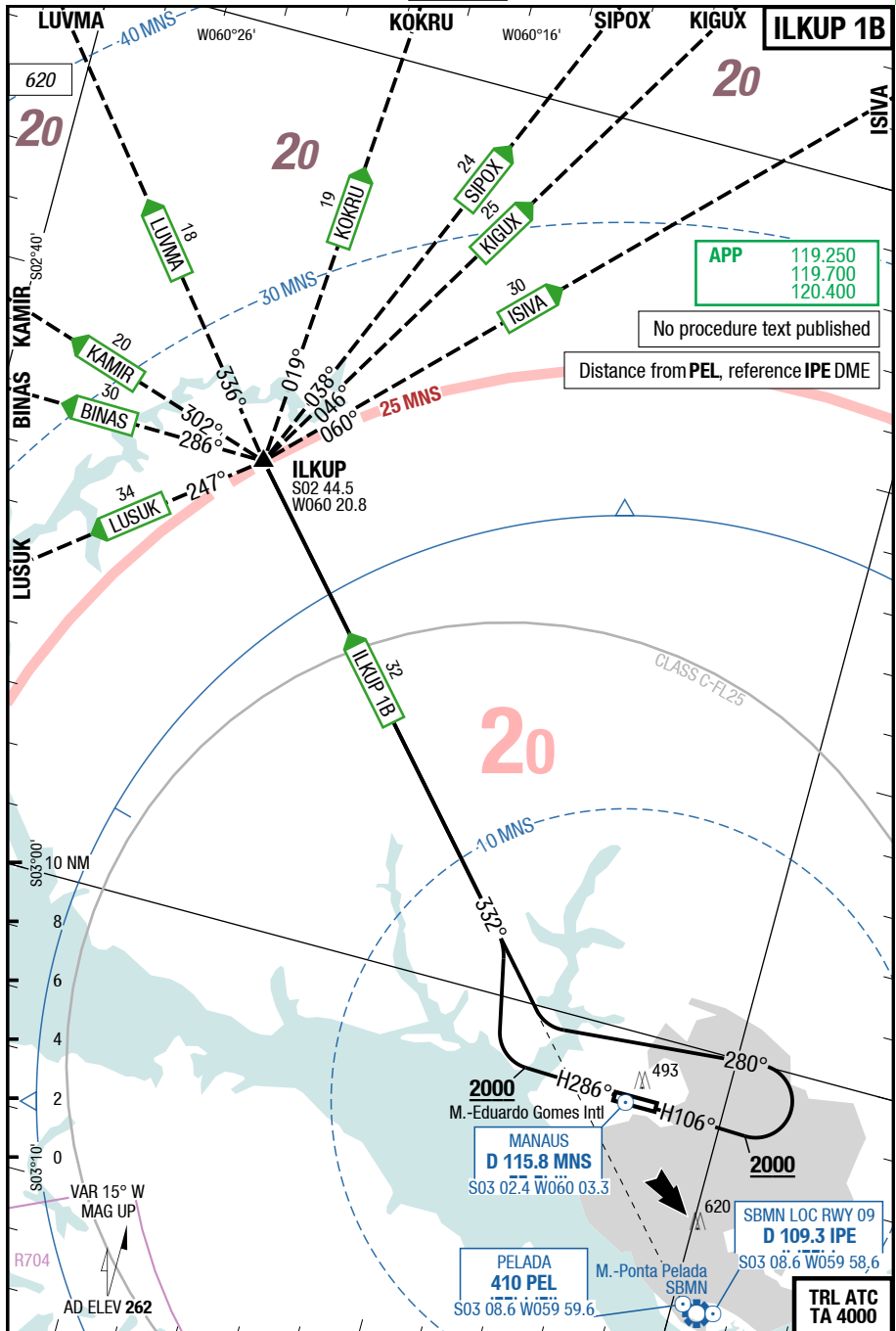
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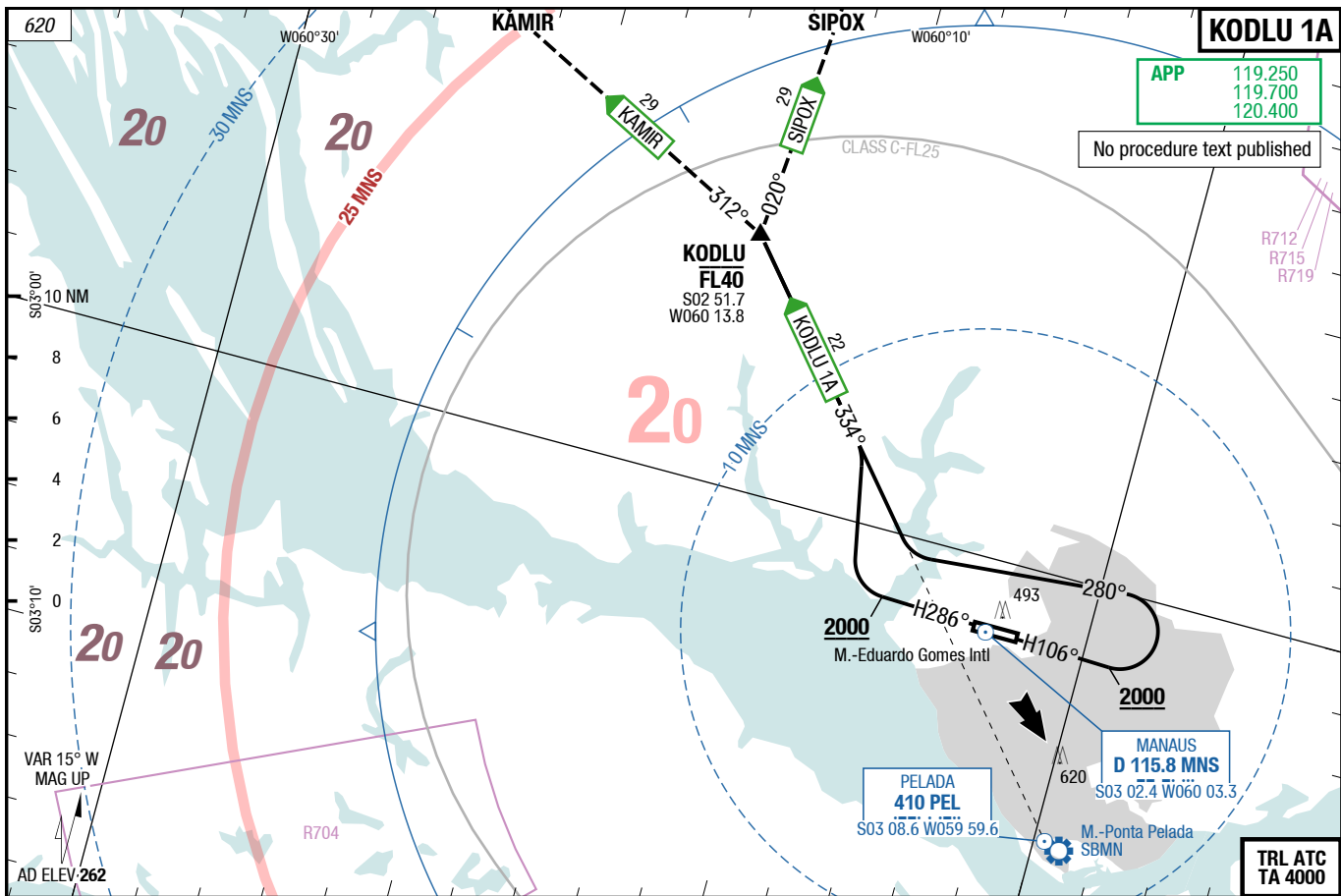
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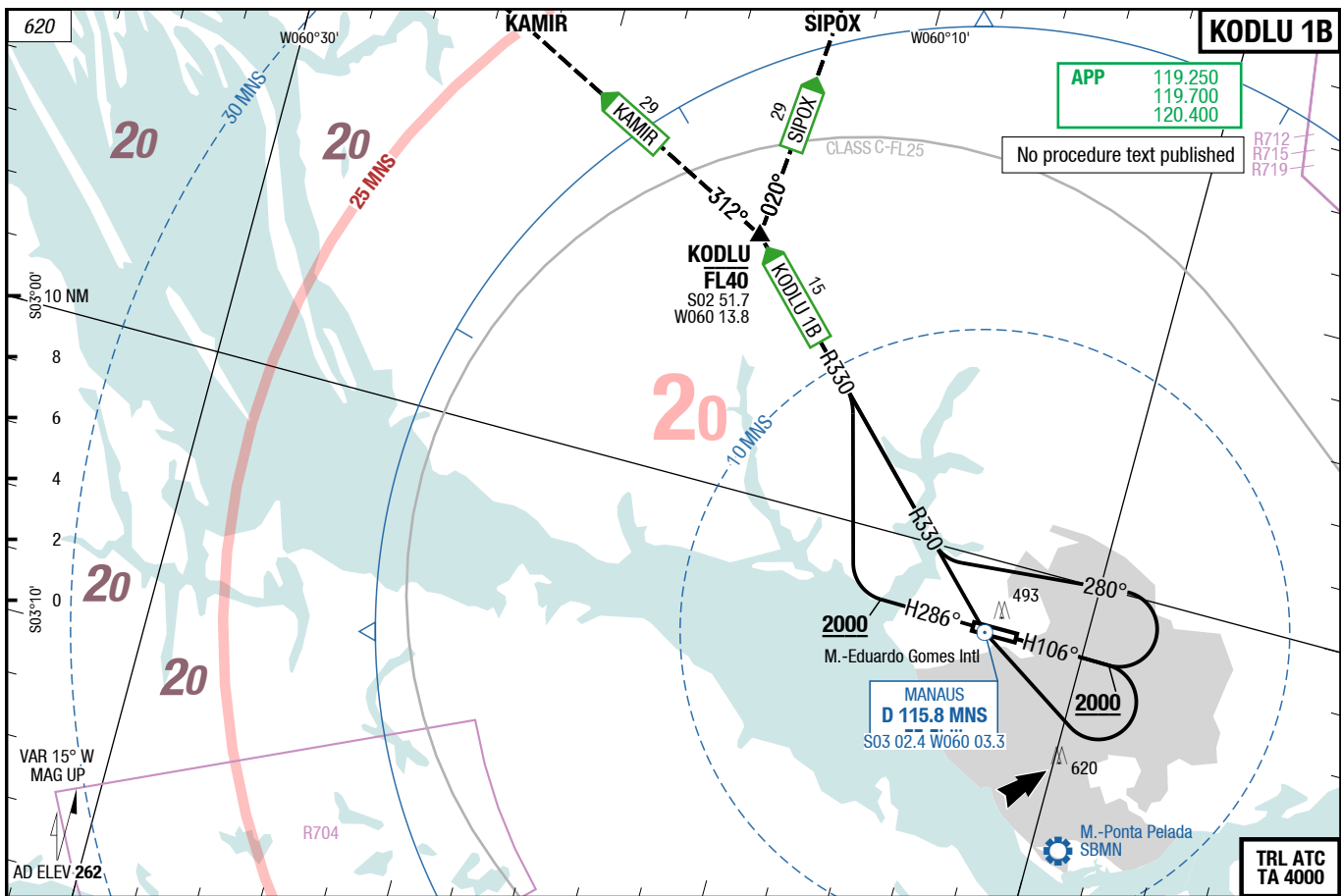
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MASDU 1A



MASDU 1B



07-SEP-2017

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OGSOT 1A

NIRMU 1D

SID

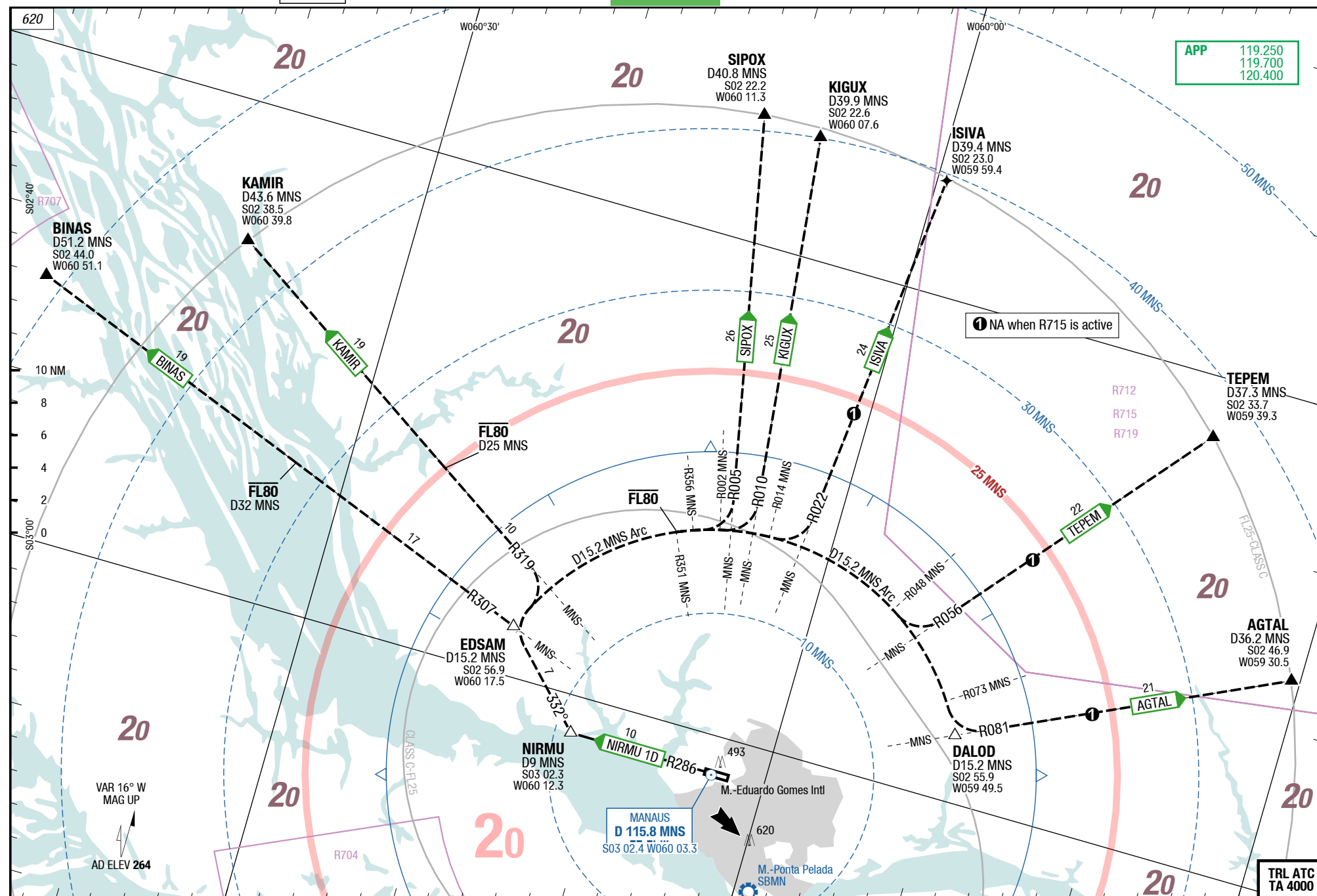
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OGSOT 1A

NIRMU 1D

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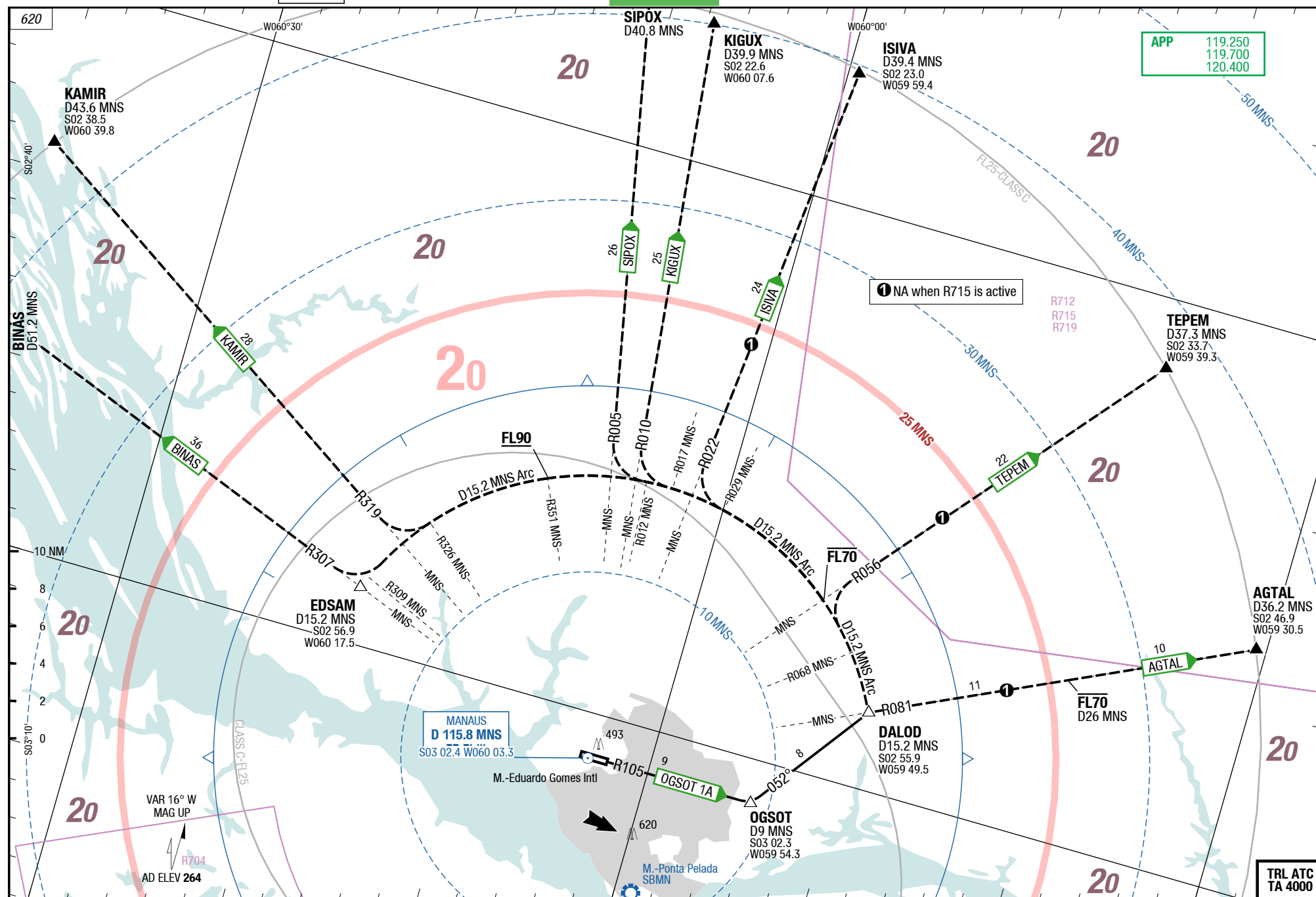
4-240

OGSOT 1A

SID

SID

OGSOT 1A



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5-10

RNAV 11 EKUTU 1A/ ROPAB 1A**SIDPT****EKUTU 1A / ROPAB 1A**

RWY 11 (106°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 11	
EKUTU 1A 119.250 ①	[A2000+ ;L] - EKUTU - TEPEM	EKUTU MAX FL70
ROPAB 1A 119.250	[A2000+ ;L] - ROPAB	ROPAB MAX FL70
	TRANSITION	
	ARVUM ROPAB - KIGUX - ILSUB - ARVUM	ROPAB MAX FL70
	KIGER ROPAB - KIGUX - ILSUB - KIGER	ROPAB MAX FL70
	KUMOS ROPAB - KIGUX - ILSUB - KUMOS	ROPAB MAX FL70

① PROC NA when R715 and R712 are active.

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5-20

RNAV 11 GAVAP 1A**SIDPT****GAVAP 1A**

RWY 11 (106°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 11	
GAVAP 1A 119.250	[A2000+ ;R] - KOMGA - VURIV - GAVAP	KOMGA MNM FL90 VURIV MNM FL100
	TRANSITION	
	DEMIT GAVAP - DEMIT	
	DOKBU GAVAP - DOKBU	
	EGBEM GAVAP - EGBEM	

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5-30

RNAV 11 MUGIB 1A**SIDPT****MUGIB 1A**

RWY 11 (106°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 11	
MUGIB 1A 119.250	[A2000+ ;R] - EG017 - ARSOS - MUGIB	EG017 MNM FL80 ARSOS MNM FL90
	TRANSITION	
	EKOXU MUGIB - EKOXU	
	EPKIR MUGIB - EPKIR	
	ESBUV MUGIB - ESBUV	

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5-40

RNAV 11 PUDPO 1A**SIDPT****PUDPO 1A**

RWY 11 (106°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 11	
PUDPO 1A 119.250	[A2000+ ;L] - ROPAB - MUBAV - TEKED - PUDPO	ROPAB MAX FL70 MUBAV MNM FL90
	TRANSITION	
	EGBAX PUDPO - GIKRA - EGBAX	
	UKEDA PUDPO - UKEDA	

SIGEP 1A / UTPAM 1A

RWY 11 (106°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 11	
SIGEP 1A 119.250	[A2000+] - SIGEP	
	TRANSITION	
	DOLTI SIGEP - OGPUM - DOLTI	
	OGPUM SIGEP - OGPUM	
UTPAM 1A 119.250	[A2000+] - UTPAM	
	TRANSITION	
	GIKVI UTPAM - GIKVI	
	POSTU UTPAM - ENPED - POSTU	

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5-60

RNAV 29 GAVAP 1B**SIDPT****GAVAP 1B**

RWY 29 (286°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 29	
GAVAP 1B 119.250	[A2000+] - ARSOS - UBSEM - VURIV - GAVAP	UBSEM MNM FL80
	TRANSITION	
	DEMIT GAVAP - DEMIT	
	DOKBU GAVAP - DOKBU	
	EGBEM GAVAP - EGBEM	

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5-70

RNAV 29 MUBAV 1B**SIDPT****MUBAV 1B**

RWY 29 (286°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 29	
MUBAV 1B 119.250 ①	[A2000+ ;R] - MUBAV	MUBAV MAX FL70
	TRANSITION	
	ARVUM MUBAV - KIGUX - ILSUB - ARVUM	MUBAV MAX FL70
	KIGER MUBAV - KIGUX - ILSUB - KIGER	MUBAV MAX FL70
	KUMOS MUBAV - KIGUX - ILSUB - KUMOS	MUBAV MAX FL70
	TEPEM MUBAV - ROPAB - TEPEM	MUBAV MAX FL70

① Close in obstacles: tree DIST 184m/604ft from DER, AZM 308, 95ft. Tree DIST 175m/574ft from DER, AZM 264, 97ft.

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5-80

RNAV 29 MUGIB 1B**SIDPT****MUGIB 1B**

RWY 29 (286°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 29	
MUGIB 1B 119.250 ^①	[A2000+] - MUGIB	
	TRANSITION	
	EKOXU MUGIB - EKOXU	
	EPKIR MUGIB - EPKIR	

① Close in obstacles: tree DIST 184m/604ft from DER, AZM 308, 95ft. Tree DIST 175m/574ft from DER, AZM 264, 97ft.

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5-90

RNAV 29 PUDPO 1B**SIDPT****PUDPO 1B**

RWY 29 (286°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 29	
PUDPO 1B 119.250 ①	EDNIL - PUDPO	EDNIL MNM 2000 PUDPO MAX FL90
	TRANSITION	
	GIKRA PUDPO - GIKRA	PUDPO MAX FL90
	UKEDA PUDPO - UKEDA	PUDPO MAX FL90

① Close in obstacles: tree DIST 184m/604ft from DER, AZM 308, 95ft. Tree DIST 175m/574ft from DER, AZM 264, 97ft.

SIGEP 1B / UTPAM 1B

RWY 29 (286°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 29	
SIGEP 1B 119.250 ①	[A2000+ ;L] - ILMAT - SIGEP	ILMAT MNM FL50
	TRANSITION	
	DOLTI SIGEP - OGPUM - DOLTI	
	OGPUM SIGEP - OGPUM	
UTPAM 1B 119.250 ①	[A2000+] - ARSOS - UBSEM - VURIV - ISNEP - UTPAM	UBSEM MNM FL80 ISNEP MNM FL100
	TRANSITION	
	GIKVI UTPAM - GIKVI	
	POSTU UTPAM - ENPED - POSTU	

① Close in obstacles: tree DIST 184m/604ft from DER, AZM 308, 95ft. Tree DIST 175m/574ft from DER, AZM 264, 97ft.

NIRMU 1D

RWY 29 (286°)

DESIGNATOR	ROUTING	ALTITUDES
NIRMU 1D 119.250 ①②	intercept R286 MNS to NIRMU	
	TRANSITION	
	AGTAL NIRMU - RT 332° to EDSAM - RT follow D15.2 MNS Arc to DALOD - LT intercept R081 MNS to AGTAL	crossing R351/D15.2 MNS MAX FL80
	BINAS NIRMU - RT 332° to EDSAM - intercept R307 MNS to BINAS	R307/D32 MNS MAX FL80
	ISIVA NIRMU - RT 332° to EDSAM - RT follow D15.2 MNS Arc - LT intercept R022 MNS to ISIVA	crossing R351/D15.2 MNS MAX FL80
	KAMIR NIRMU - RT 332° to EDSAM - RT follow D15.2 MNS Arc - LT intercept R319 MNS to KAMIR	R319/D25 MNS MAX FL80
	KIGUX NIRMU - RT 332° to EDSAM - RT follow D15.2 MNS Arc - LT intercept R010 MNS to KIGUX	crossing R351/D15.2 MNS MAX FL80
	SIPOX NIRMU - RT 332° to EDSAM - RT follow D15.2 MNS Arc - LT intercept R005 MNS to SIPOX	crossing R351/D15.2 MNS MAX FL80
	TEPEM NIRMU - RT 332° to EDSAM - RT follow D15.2 MNS Arc - LT intercept R056 MNS to TEPEM	crossing R351/D15.2 MNS MAX FL80

① Close in obstacles: tree DIST 184m/604ft from DER, AZM 308, 95ft. Tree DIST 175m/574ft from DER, AZM 264, 97ft.

② Transition: ISIVA, TEPEM, AGTAL NA when R715 is active.

OGSOT 1A

RWY 11 (106°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 11	
OGSOT 1A 119.250 ①	intercept R105 MNS to OGSOT- LT 052° to DALOD	
	TRANSITION	
	AGTAL DALOD - intercept R081 MNS to AGTAL	R081/D26 MNS MAX FL70
	BINAS DALOD - LT follow D15.2 MNS Arc to EDSAM - RT intercept R307 MNS to BINAS	crossing R056/D15.2 MNS MAX FL70 crossing R351/D15.2 MNS MNM FL90
	ISIVA DALOD - LT follow D15.2 MNS Arc - RT intercept R022 MNS to ISIVA	crossing R056/D15.2 MNS MAX FL70
	KAMIR DALOD - LT follow D15.2 MNS Arc - RT intercept R319 MNS to KAMIR	crossing R056/D15.2 MNS MAX FL70 crossing R351/D15.2 MNS MNM FL90
	KIGUX DALOD - LT follow D15.2 MNS Arc - RT intercept R010 MNS to KIGUX	crossing R056/D15.2 MNS MAX FL70
	SIPOX DALOD - LT follow D15.2 MNS Arc - RT intercept R005 MNS to SIPOX	crossing R056/D15.2 MNS MAX FL70
	TEPEM DALOD - LT follow D15.2 MNS Arc - RT intercept R056 MNS to TEPEM	crossing R056/D15.2 MNS MAX FL70

① Transition: ISIVA, TEPEM, AGTAL NA when R715 is active

10-AUG-2017

RNAV 11 IRUMO 1A

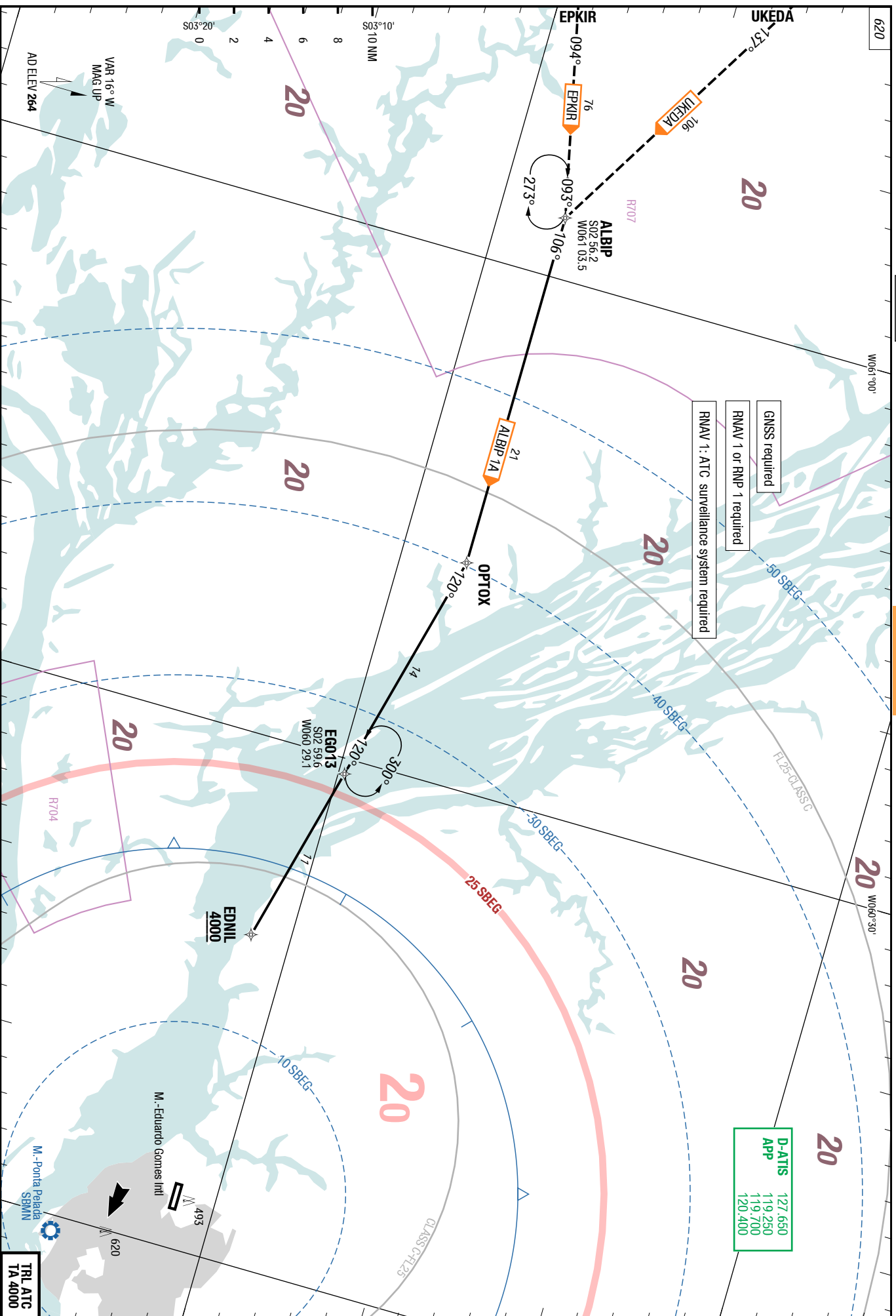
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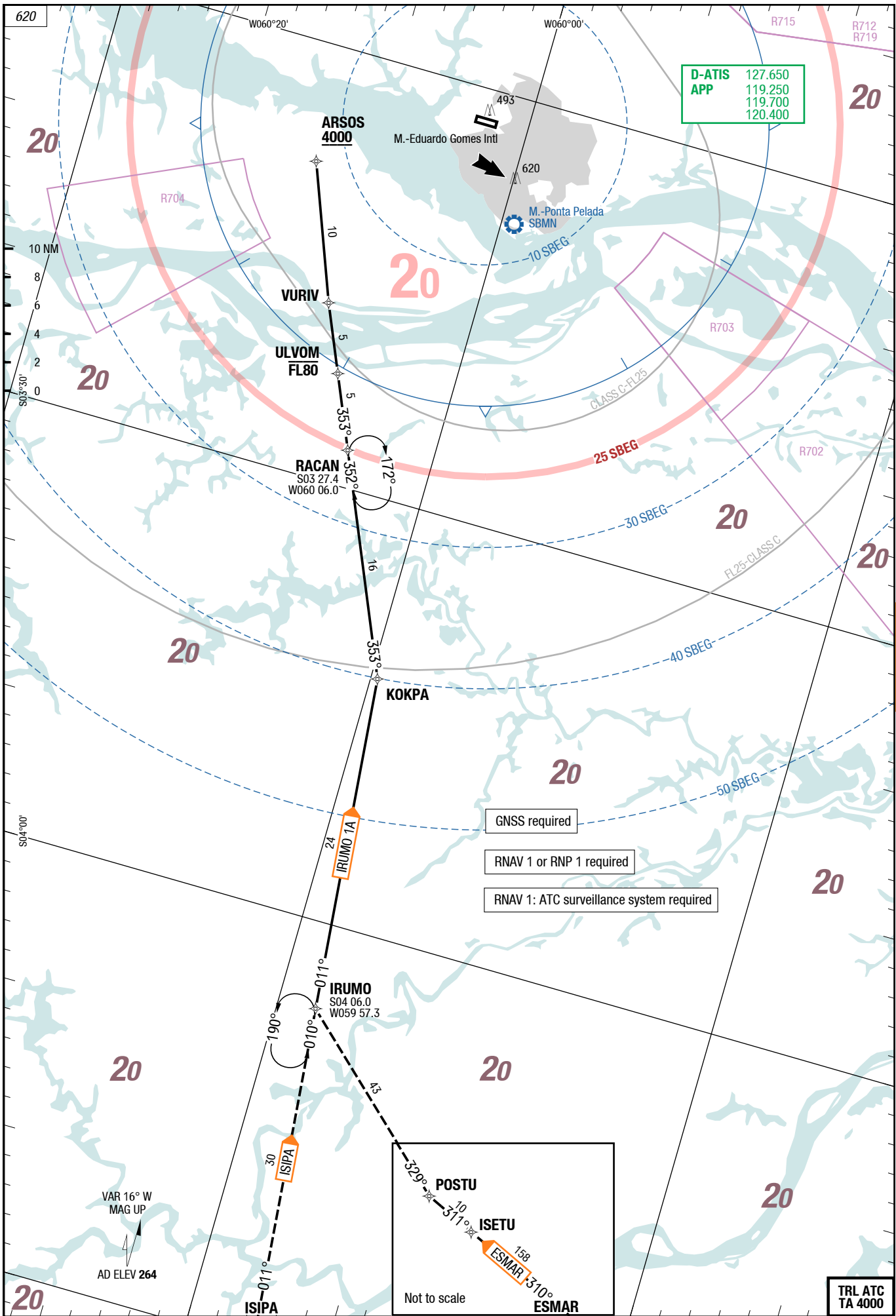
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RNAV 11 IRUMO 1A

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RNAV 11 MOLDO 1A

6-30

RNAV 11 KULAB 1A

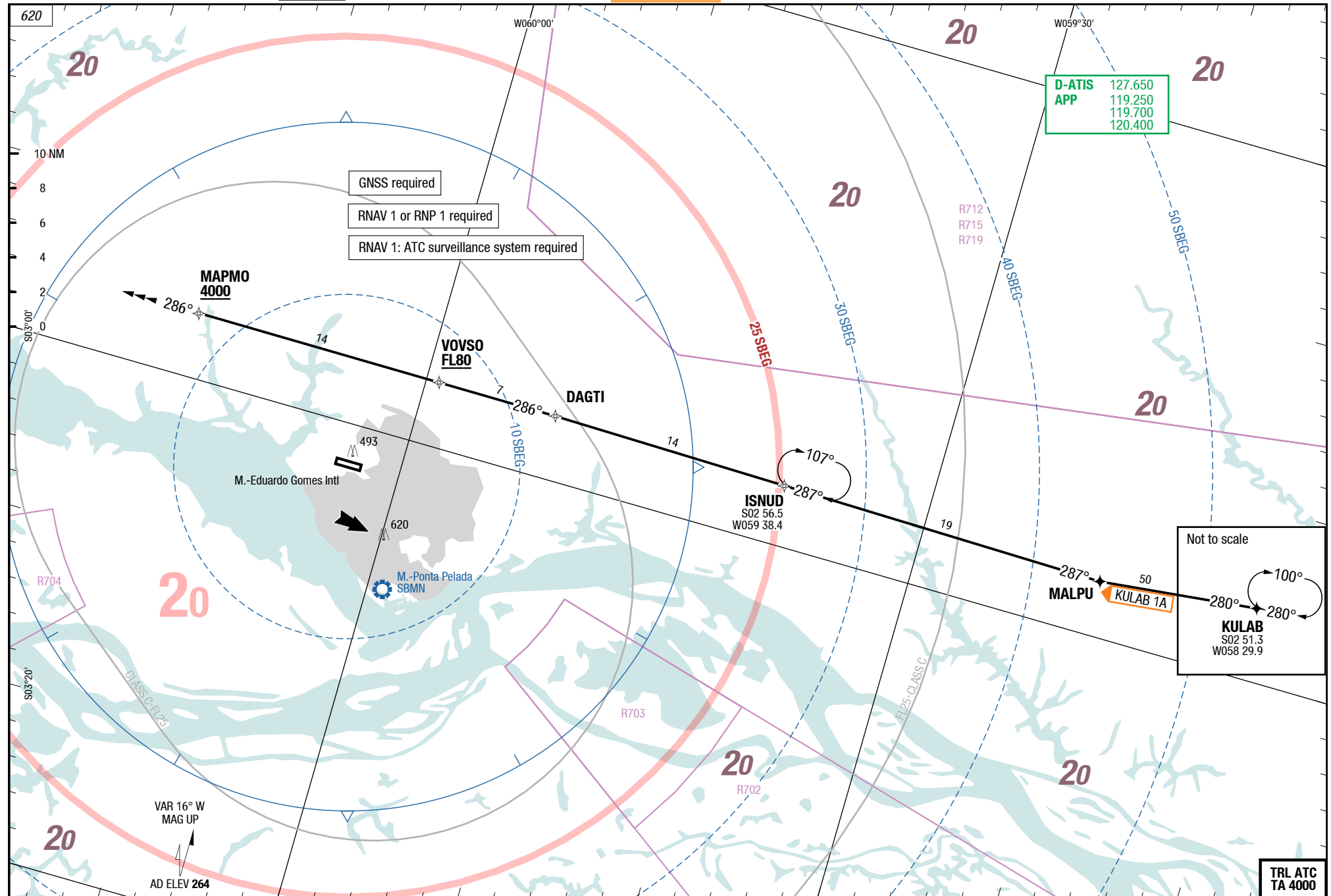
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RNAV 11 MOLDO 1A

RNAV 11 KULAB 1A



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6-40

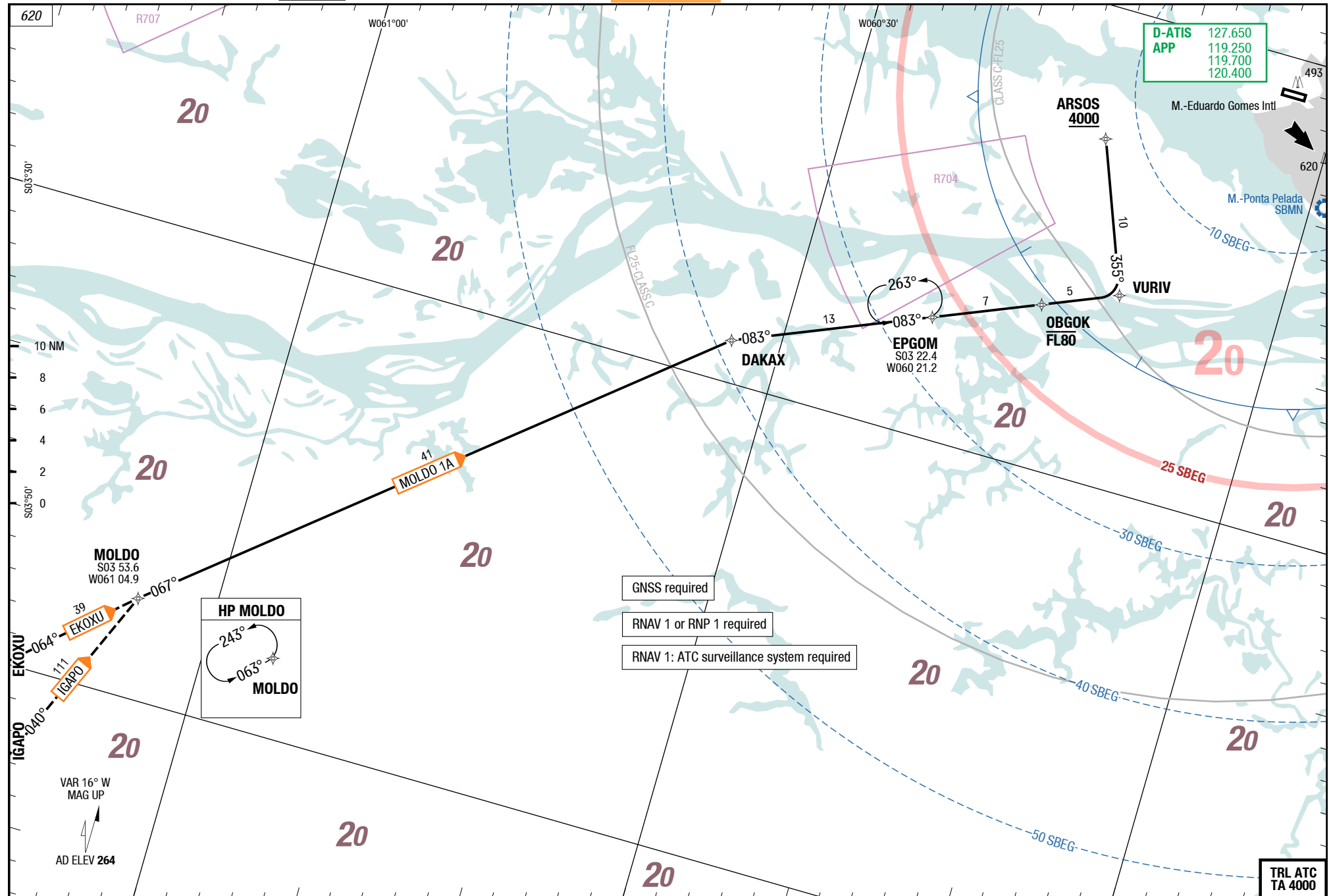
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RNAV 11 MOLDO 1A



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RNAV 29 ALBIP 1B

RNAV 11 SEMLA 1A

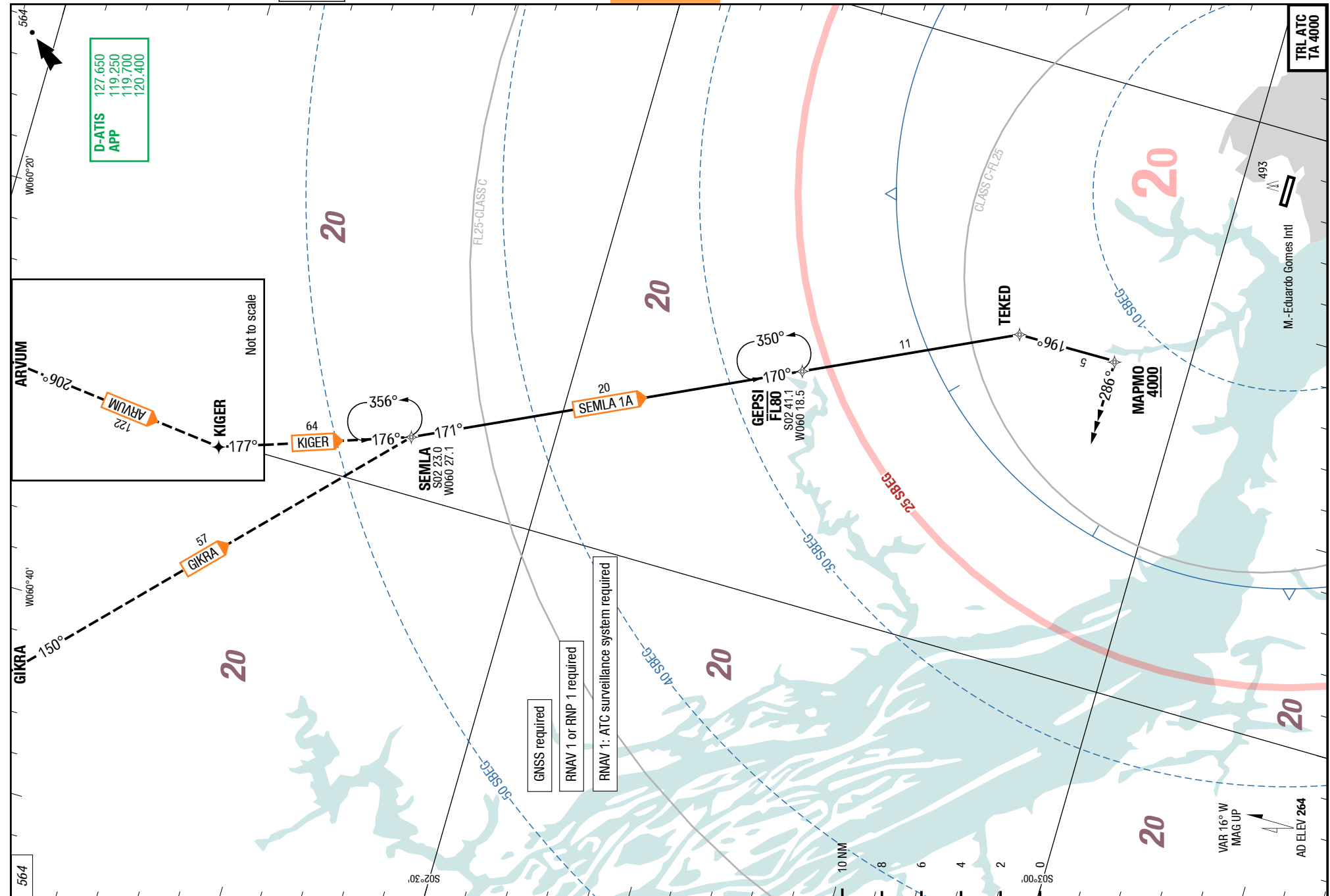
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RNAV 29 ALBIP 1B

RNAV 11 SEMLA 1A



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6-60

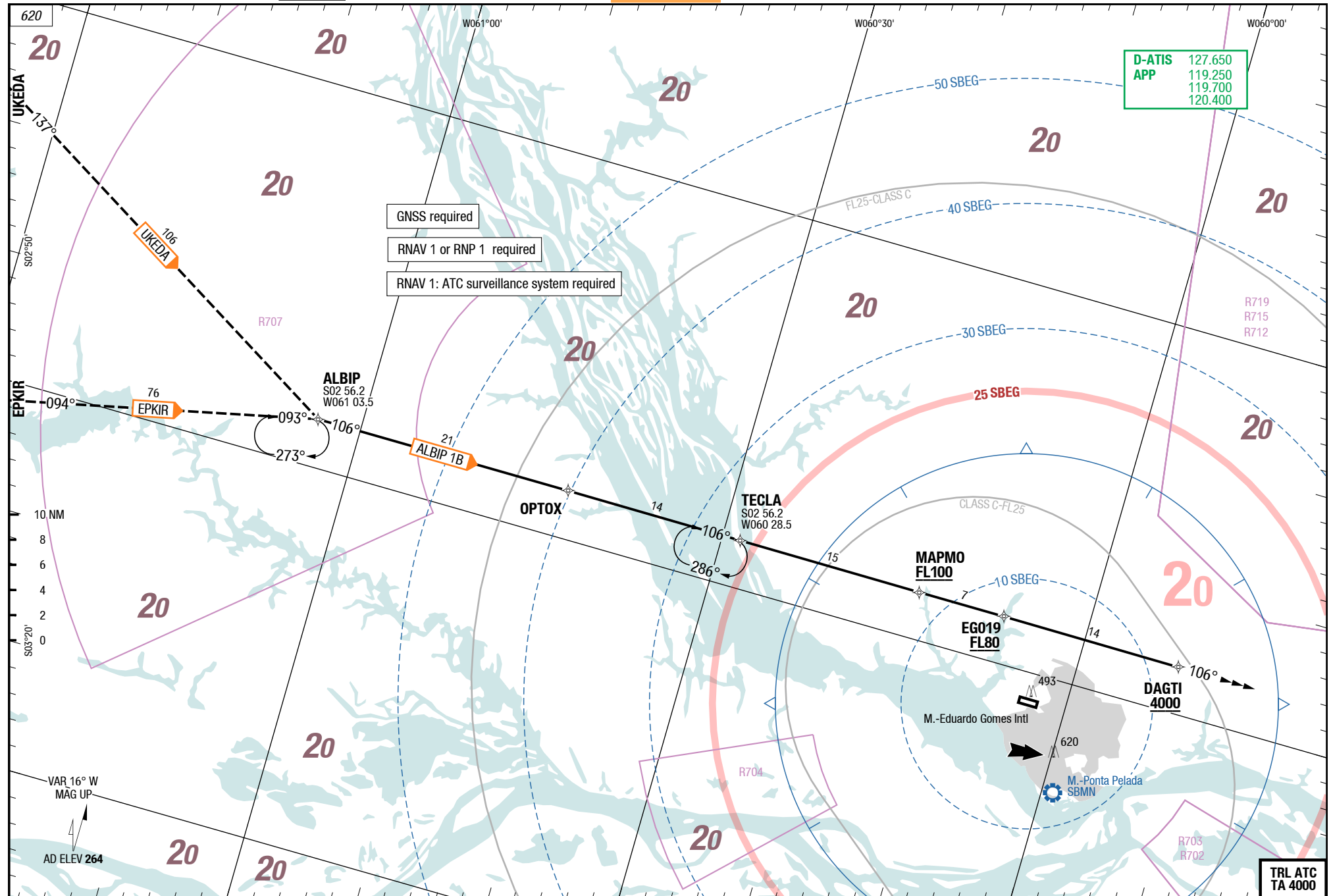
RNAV 29 ALBIP 1B

STAR

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RNAV 29 ALBIP 1B



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RNAV 29 KULAB 1B

RNAV 29 IRUMO 1B

STAR

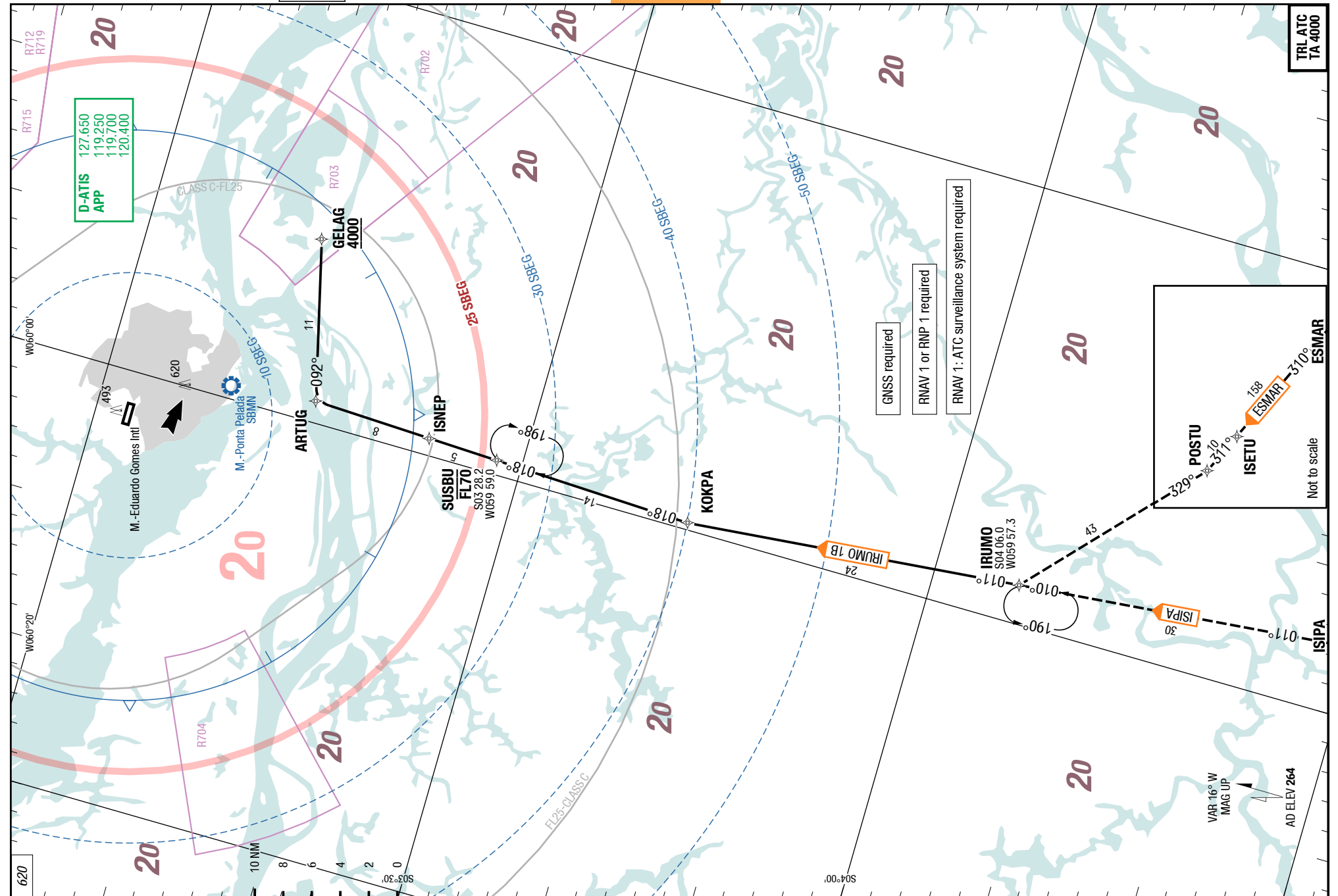
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RNAV 29 KULAB 1B

RNAV 29 IRUMO 1B

6-70



TRL ATC
TA 4000

ESMAR
310°
Not to scale

ISIPA
011°

AD ELEV 264
MAG UP
VAR 16° W

© Lido 2017

Changes: new

Effective 17-AUG-2017

10-AUG-2017

MAO-SBEG

Brazil **Manaus** Eduardo Gomes Intl

6-80

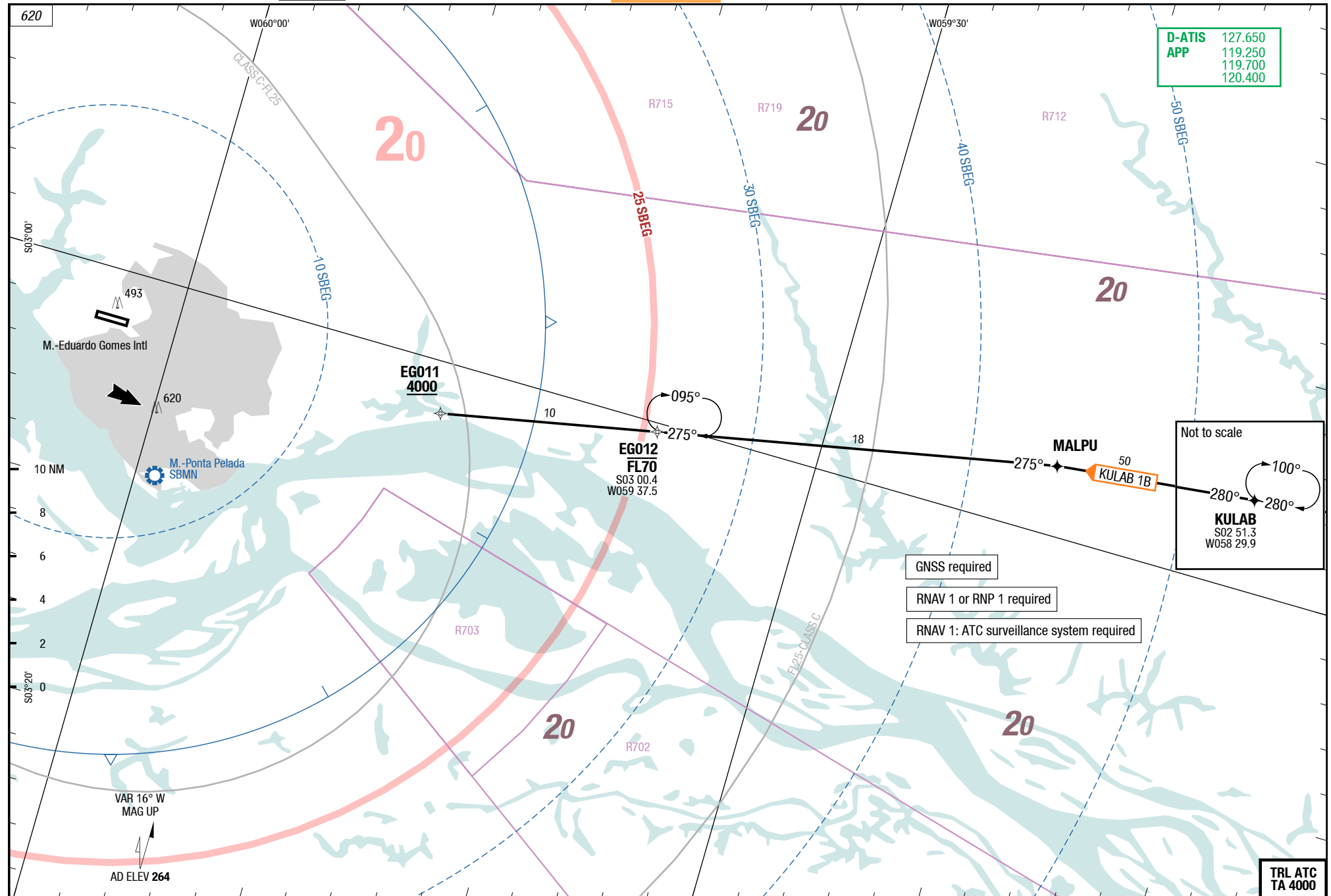
RNAV 29 KULAB 1B

STAR

STAR

Eduardo Gomes Intl **Manaus** Brazil

RNAV 29 KULAB 1B



Changes: new

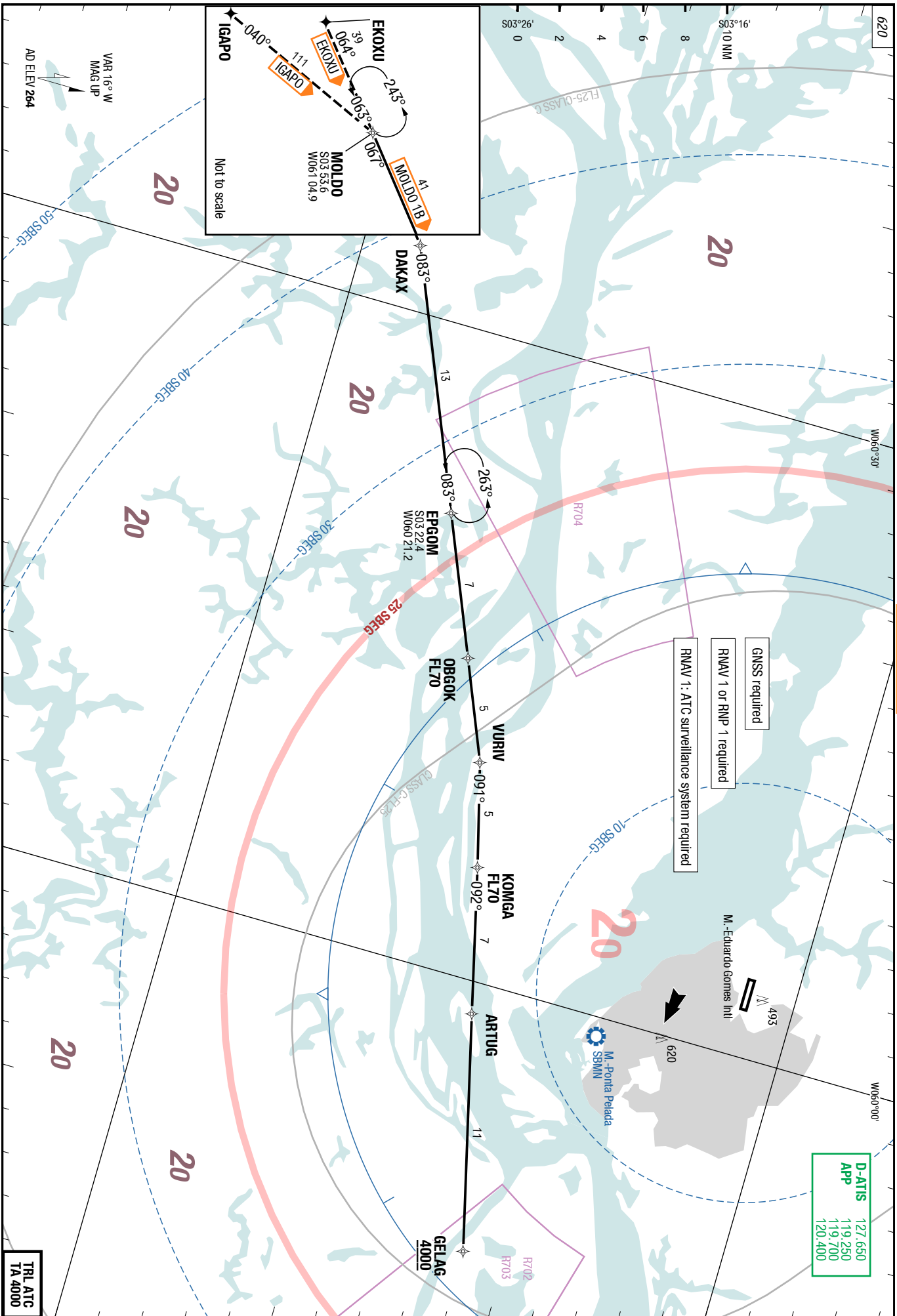
Effective 17-AUG-2017
10-AUG-2017
MAO-SBEG

Brazil Manaus Eduardo Gomes Intl
[RNAV 29 SEM/A 1B]
6-90
RNAV 29 MOLDO 1B

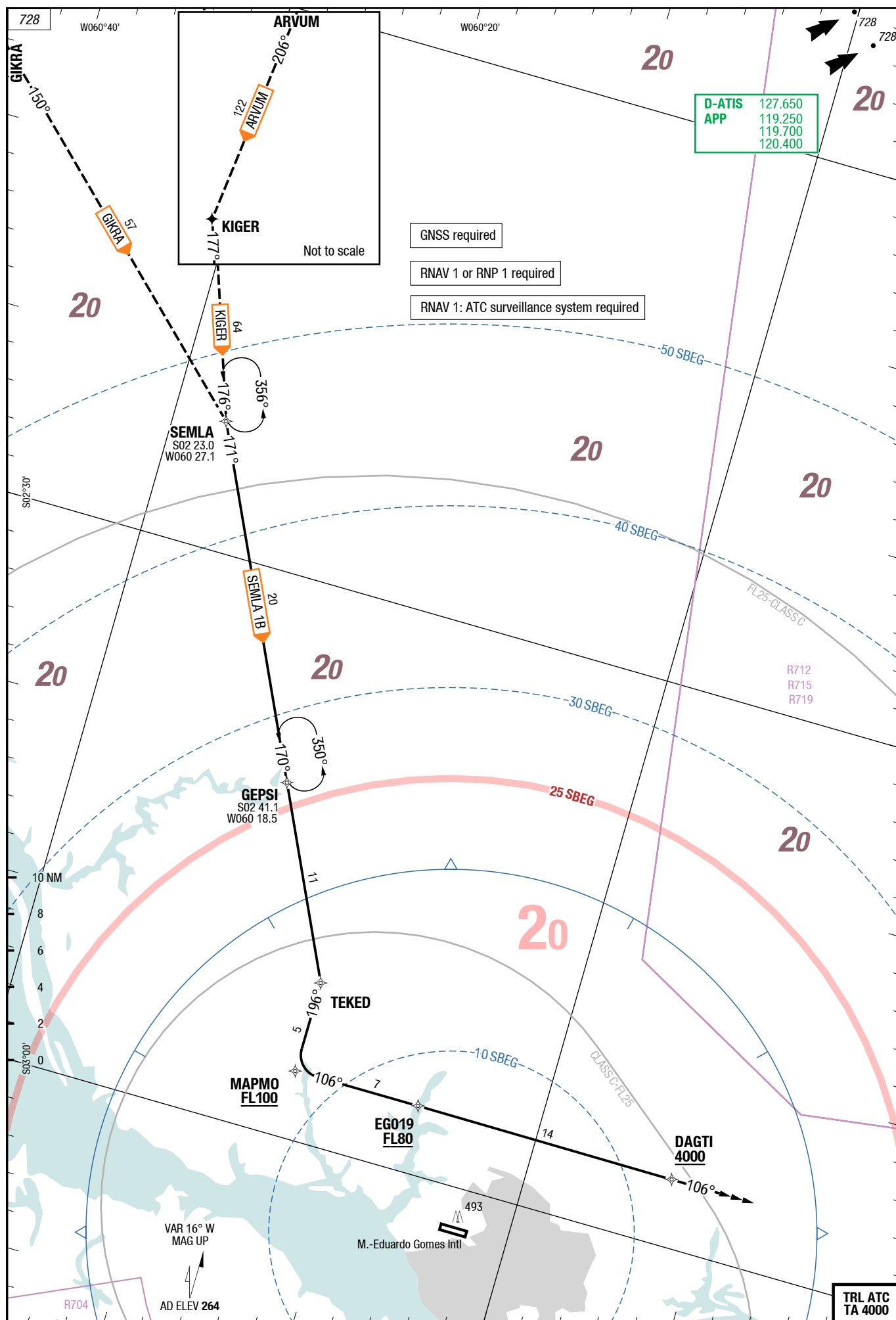
STAR
STAR

Eduardo Gomes Intl Manaus Brazil
[RNAV 29 SEM/A 1B]
RNAV 29 MOLDO 1B

D-ATIS
APP
127.650
119.250
119.700
120.400



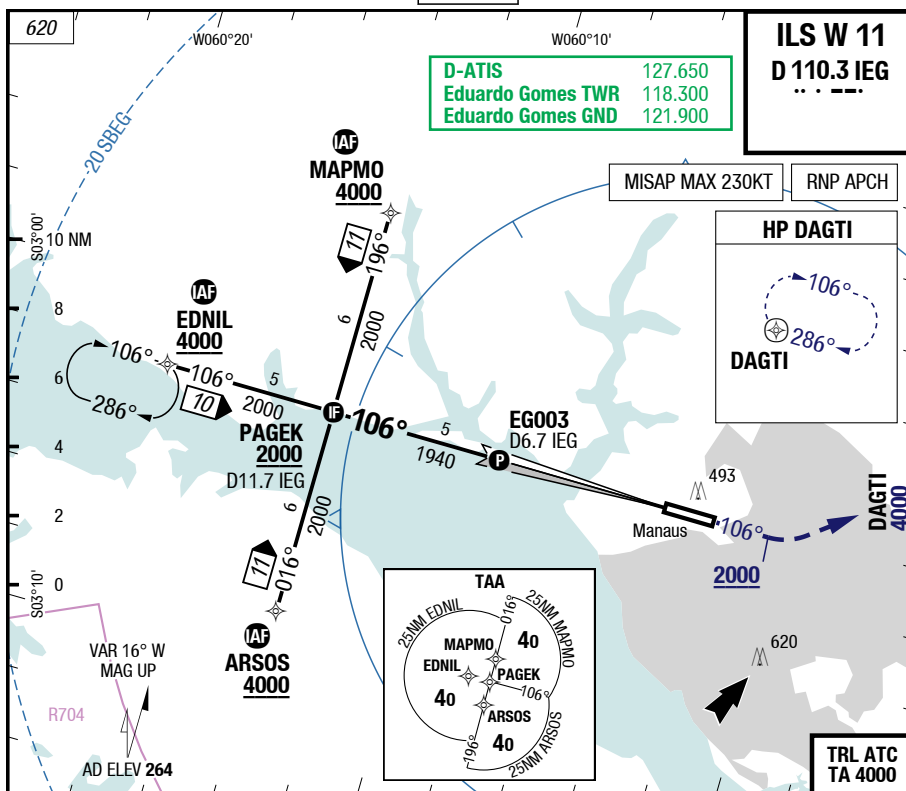
Changes: new



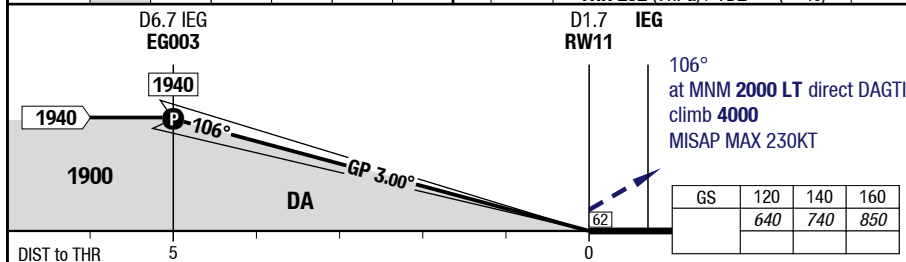
MAO-SBEG

7-10

ILS W 11



D IEG	6.7	6	5	4	3	11	83.1°	YCR 570m
	1940	1710	1380	1060	740	720	2700 x 45	60 HL
						HL-P1	THR 252 (9hPa) / TDZ --- (---%)	+0.1%

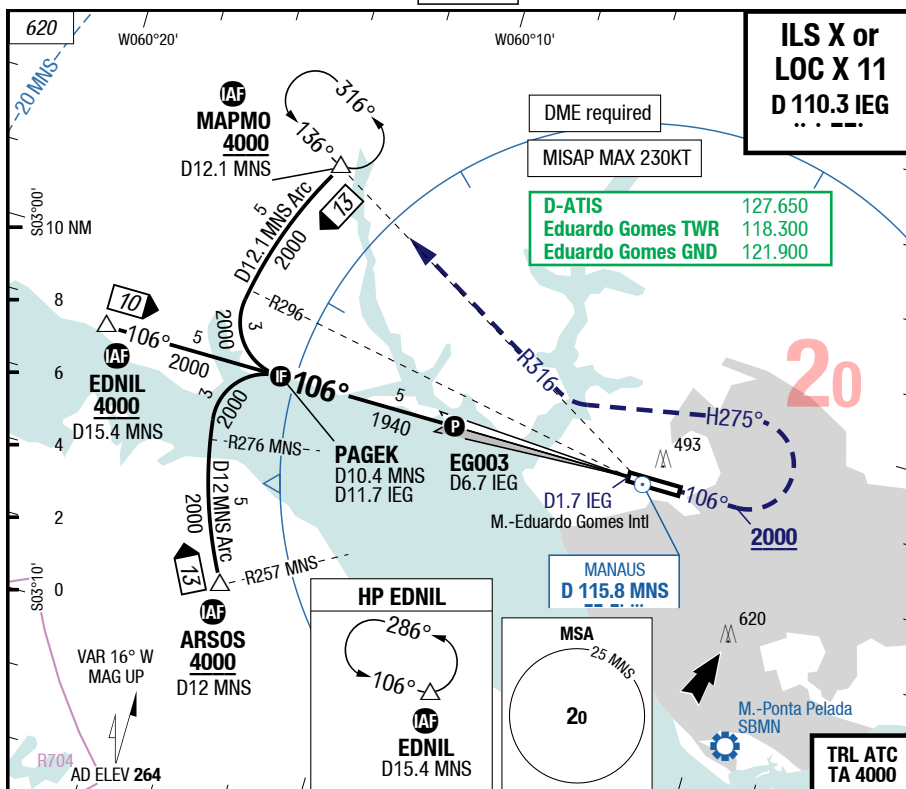


11	Cat 1 DME	LOC			Circling
C	ft - m/km ft	290 - 800V 540	Not published		Not authorized
D	ft - m/km ft	290 - 800V 540	Not published		Not authorized

MAO-SBEG

7-20

ILS X or LOC X 11

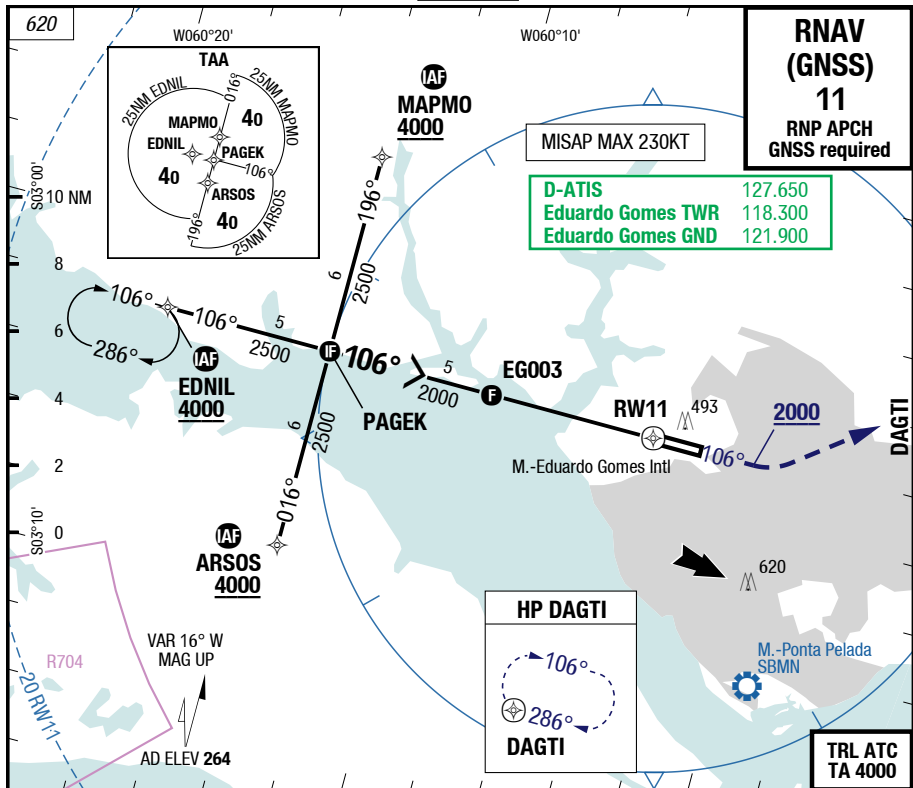


11		Cat 1 DME	LOC DME	Circling	
C	ft - m/km ft	C 300 - 800V 540	C 500 - 1.4V 700	Not authorized	
D	ft - m/km ft	C 300 - 800V 540	C 500 - 1.4V 700	Not authorized	

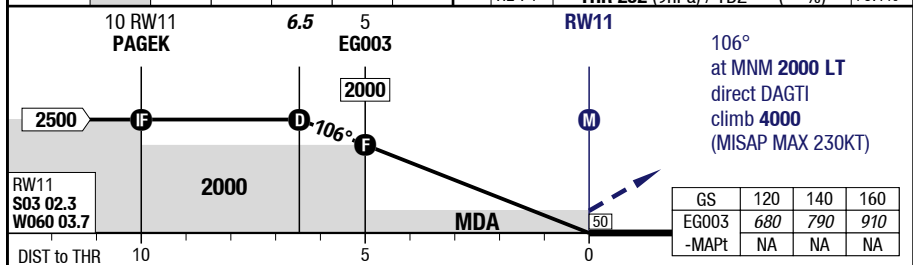
MAO-SBEG

7-30

RNAV (GNSS) 11



3.20° RW11	6.5	6	4	3	2	11	83.1° YCR 570m 60 HL
	2500	2340	1660	1320	980	HL-P1	720
							THR 252 (9hPa) / TDZ --- (---%) +0.1%



11	RNAV GNSS VNAV 1) 2)	RNAV GNSS LNAV				Circling
C	ft - m/km ft	C 400 - 900V 620	C 500 - 1.4V 700			Not authorized
D	ft - m/km ft	C 400 - 900V 620	C 500 - 1.4V 700			Not authorized

1) Uncompensated BARO VNAV NA below 0°C (32°F) or above 50°C (122°F)

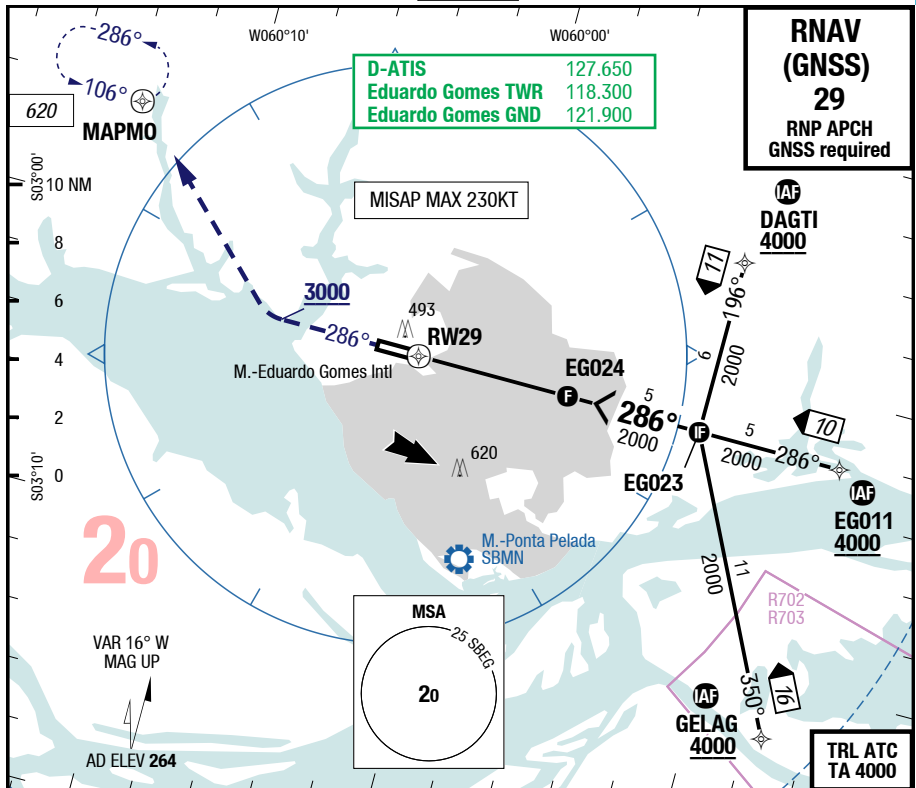
2) With EVS VIS 800m

Changes: THR ELEV

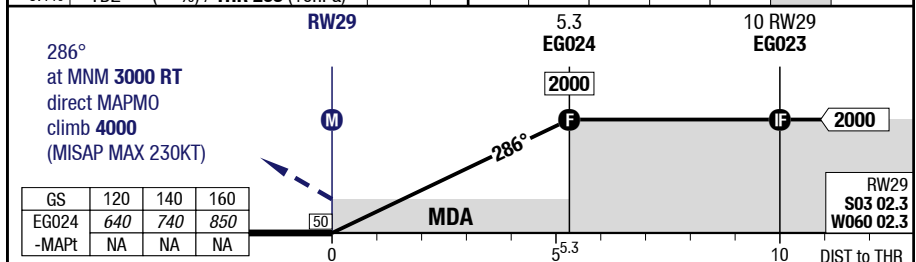
MAO-SBEG

7-40

RNAV (GNSS) 29



2	3	4	5	5.3	3.00°
950	1270	1590	1910	2000	RW29



29		RNAV GNSS VNAV GA 3.0% 1) 2) 3)	RNAV GNSS LNAV GA 3.0%	Circling	
C	ft - m/km ft	C 400 - 1.6V 620	C 600 - 2.4V 780		Not authorized
D	ft - m/km ft	C 400 - 1.6V 620	C 600 - 2.4V 780		Not authorized

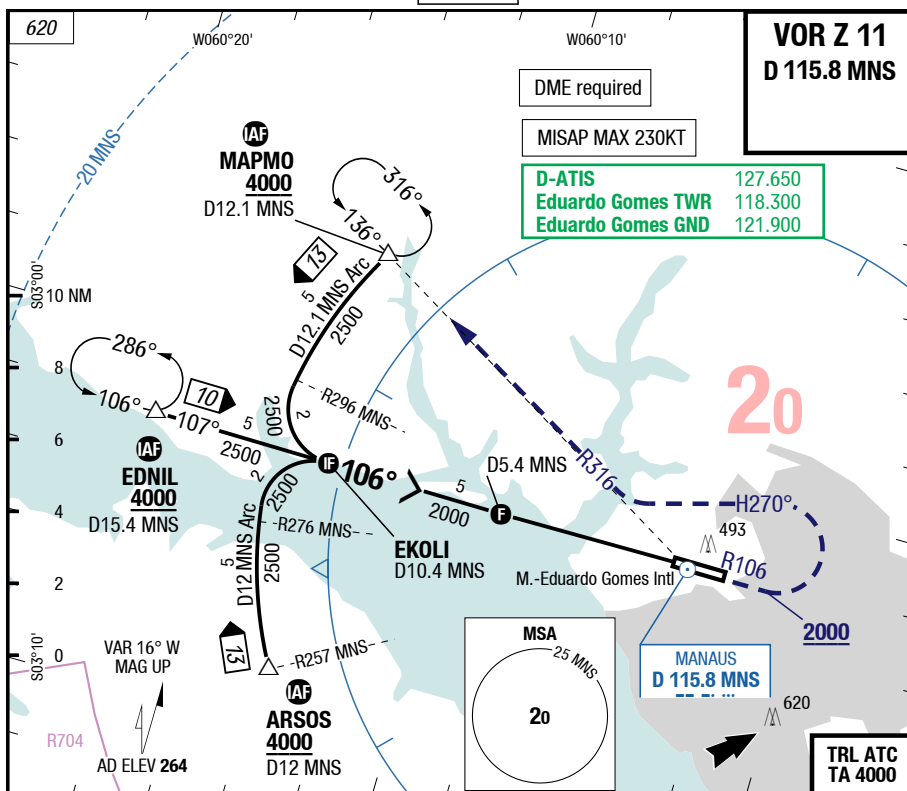
1) Uncompensated BARO VNAV NA below 0°C (32°F) or above 50°C (122°F) 2) SBAS use for VNAV not applicable or not authorized 3) With EVS VIS 1.1km

Changes: MIN, THR ELEV

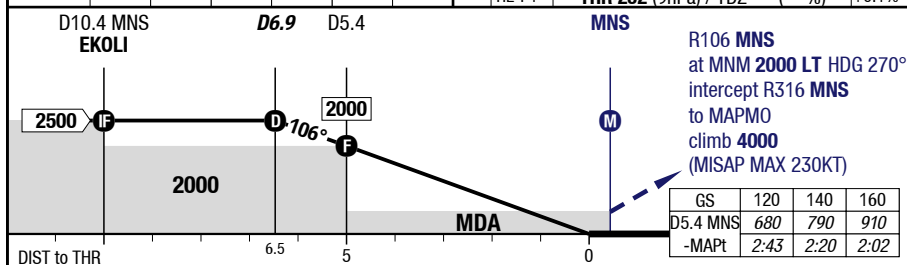
MAO-SBEG

7-50

VOR Z 11



3.20°	6.9	6	5	4	3	2	
D MNS	2500	2200	1860	1520	1180	840	

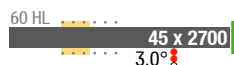
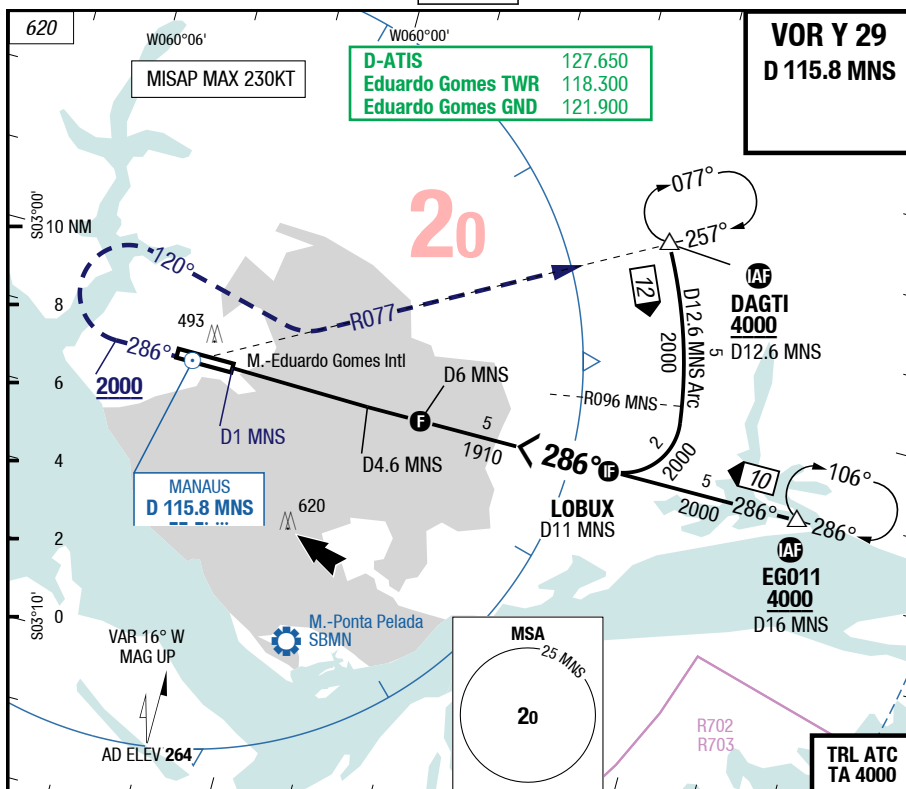


11		VOR DME				Circling
C	ft - m/km ft	C 500 - 1.4V 700				Not authorized
D	ft - m/km ft	C 500 - 1.4V 700				Not authorized

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7-60

VOR Y 29

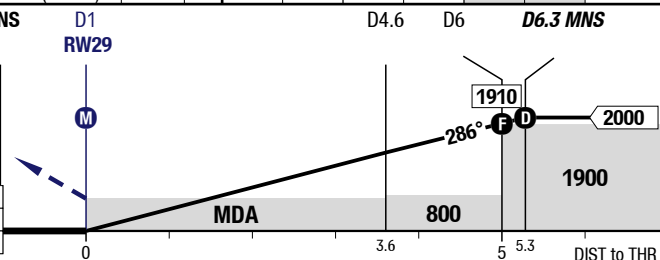


-0.1% TDZ --- (---%) / **THR 263** (10hPa)

29	3	4	5	6.3			3.00° D MNS
	940	1260	1580	2000			

286°
at MNM **2000 RT** 120°
intercept R077 **MNS**
to DAGTI
climb **4000**
(MISAP MAX 230KT)

GS	120	140	160
D6 MNS	640	740	850
-MAPt	2:30	2:09	1:53



29		VOR DME				Circling
C	ft - m/km ft	C 500 - 2.3V 760				Not authorized
D	ft - m/km ft	C 500 - 2.3V 760				Not authorized

Effective 17-AUG-2017

10-AUG-2017

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Brazil Manaus Eduardo Gomes Intl

NIL

MRC

MRC

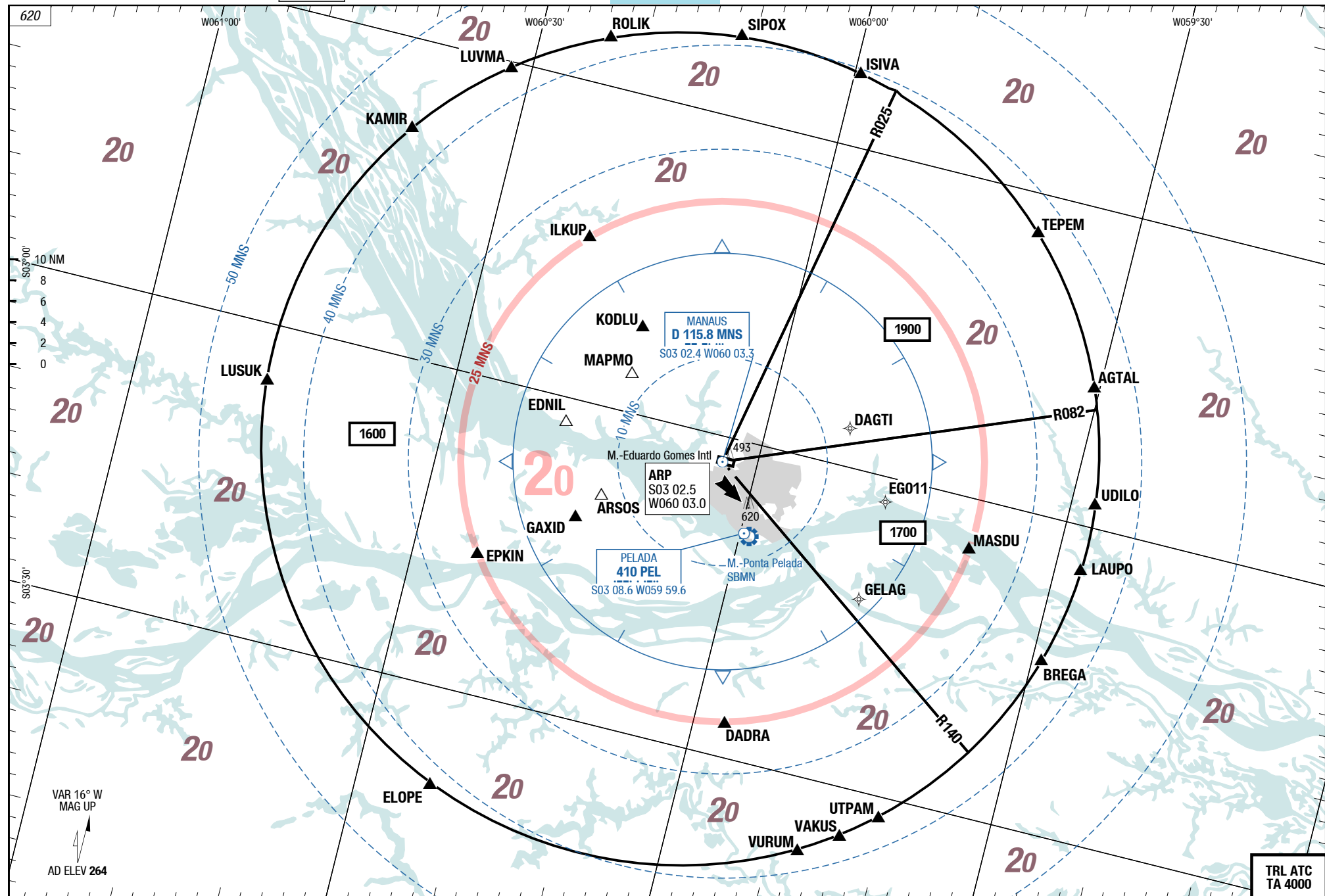
MRC

Eduardo Gomes Intl Manaus Brazil

NIL

MRC

8-10



Changes: WPT , VAR, AD ELEV