

GENERAL**ATS Hours**

0900-2300±

| If planned to stay on GND for over 2HRs or overnight, PPR between 1200-2000± MNM 48HRs in advance.

Airport Information**RFF:** CAT 5**PCN:** RWY 11/29: 20/R/B/X/T, first 300m RWY 11: 19/R/B/X/T

RWY 02/20: 10/F/C/Y/U

Operation**RWY Restriction**

| RWY 02/20 MIL use only.

Taxi/Parking

Taxiing on RWY 02/20 between RWY 11/29 and TWY F is prohibited for ACFT with ACN 14 or more.

Engine Run-up Areas

| ENG checks on APN prohibited. Only permitted in the check area and at THR.

DEPARTURE**Take-off Minima**

RWY		11/29	
Multi-ENG	ft - m/km	0 - 500R/600V	TKOF ALTN AVBL, HJ only
		0 - 800R/800V	TKOF ALTN AVBL, HN
All ACFT		c1100 - 1.6V	-

06-SEP-2018

RIA-SBSM

Brazil **Santa Maria**

AGC

AFC

AFC

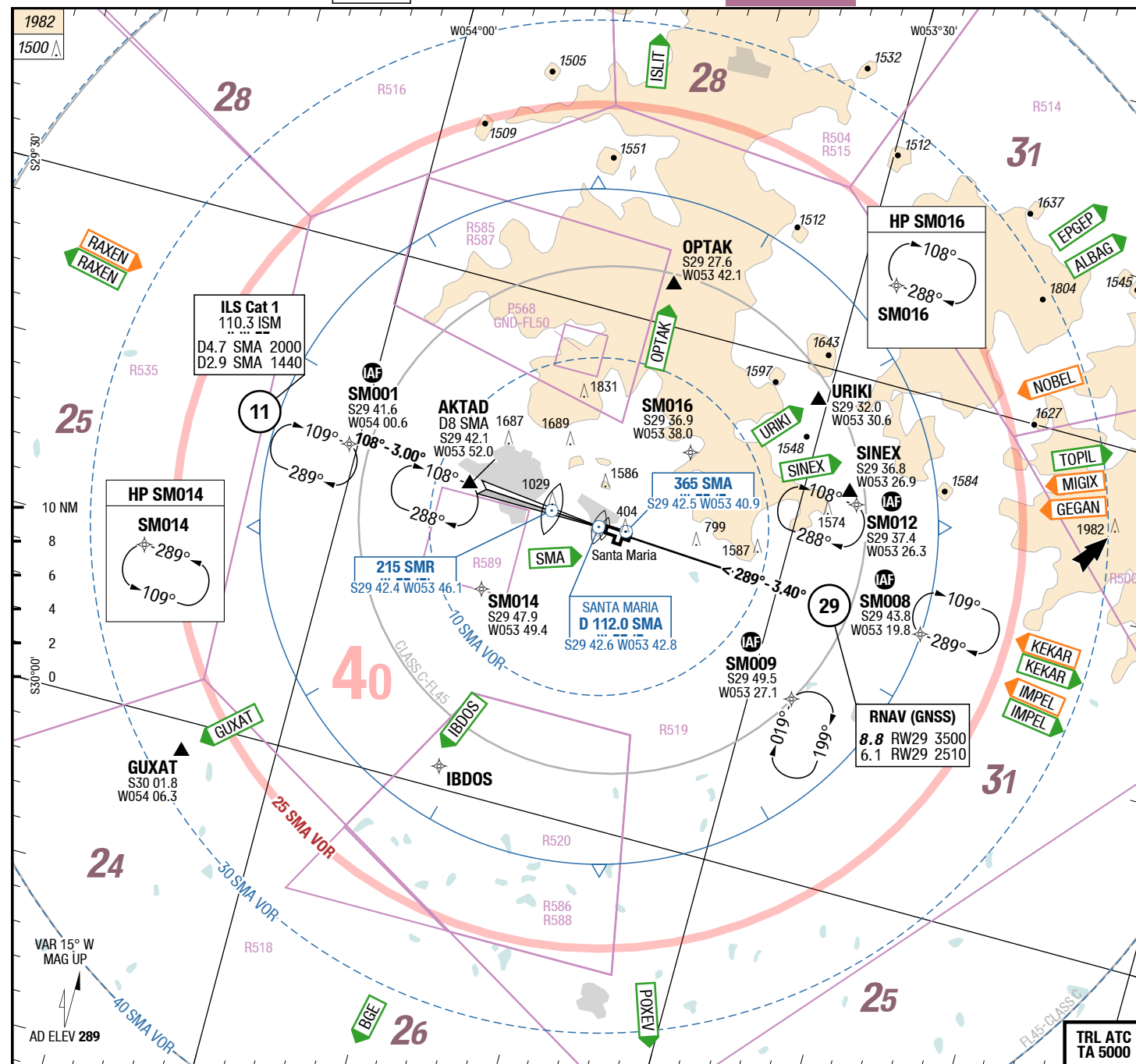
AFC

Santa Maria Brazil

AGC

AFC

2-10



ATIS	127.750	
Curitiba ACC	123.725	
	135.900	
APP	119.350	
	121.350	
TWR	118.300	0900-0300
	118.850	0900-0300

Landing RWY system:

02

1507 x 30

60 L

THR 270 (10hPa) / TDZ --- (---%) +0.1%

60 L

30 x 1507

TDZ --- (---%) / THR 273 (10hPa) -0.1%

11

3.0°

60 L

2694 x 45

L-P1F

THR 288 (10hPa) / TDZ 288 (---%) -0.4%

60 L

45 x 2694

3.0°

TDZ --- (---%) / THR 256 (9hPa) +0.4%

Changes: APL, LDA, THR ELEV

Effective 13-SEP-2018

06-SEP-2018

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Brazil Santa Maria

AGC

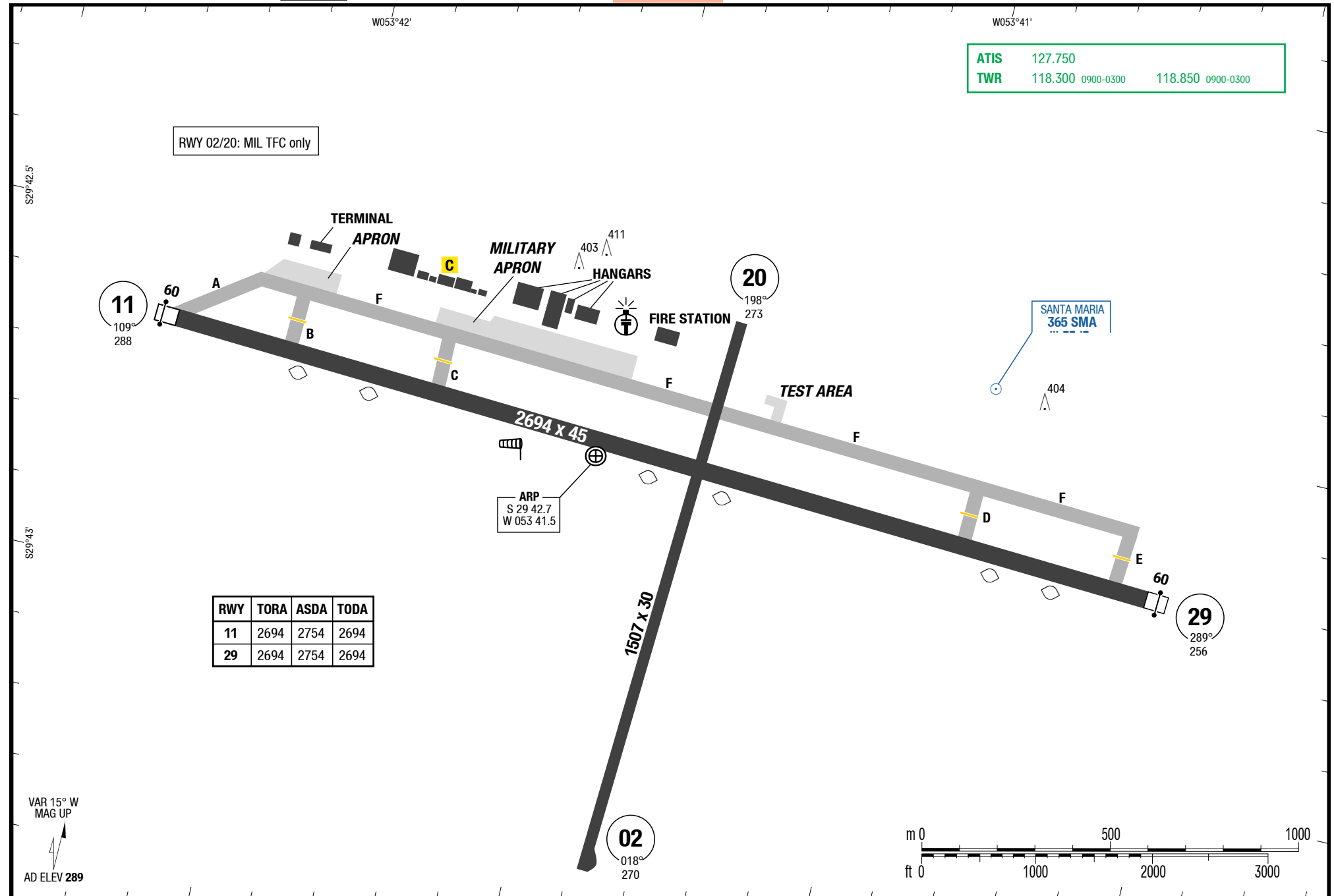
AGC

AGC

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3-20



Changes: RWY length, Declared distances, SWY, THR ELEV

Effective 01-FEB-2018

25-JAN-2018

RIA-SBSM

4-10

Brazil Santa Maria

RNAV SIDs RWY 29

RNAV SIDs RWY 11

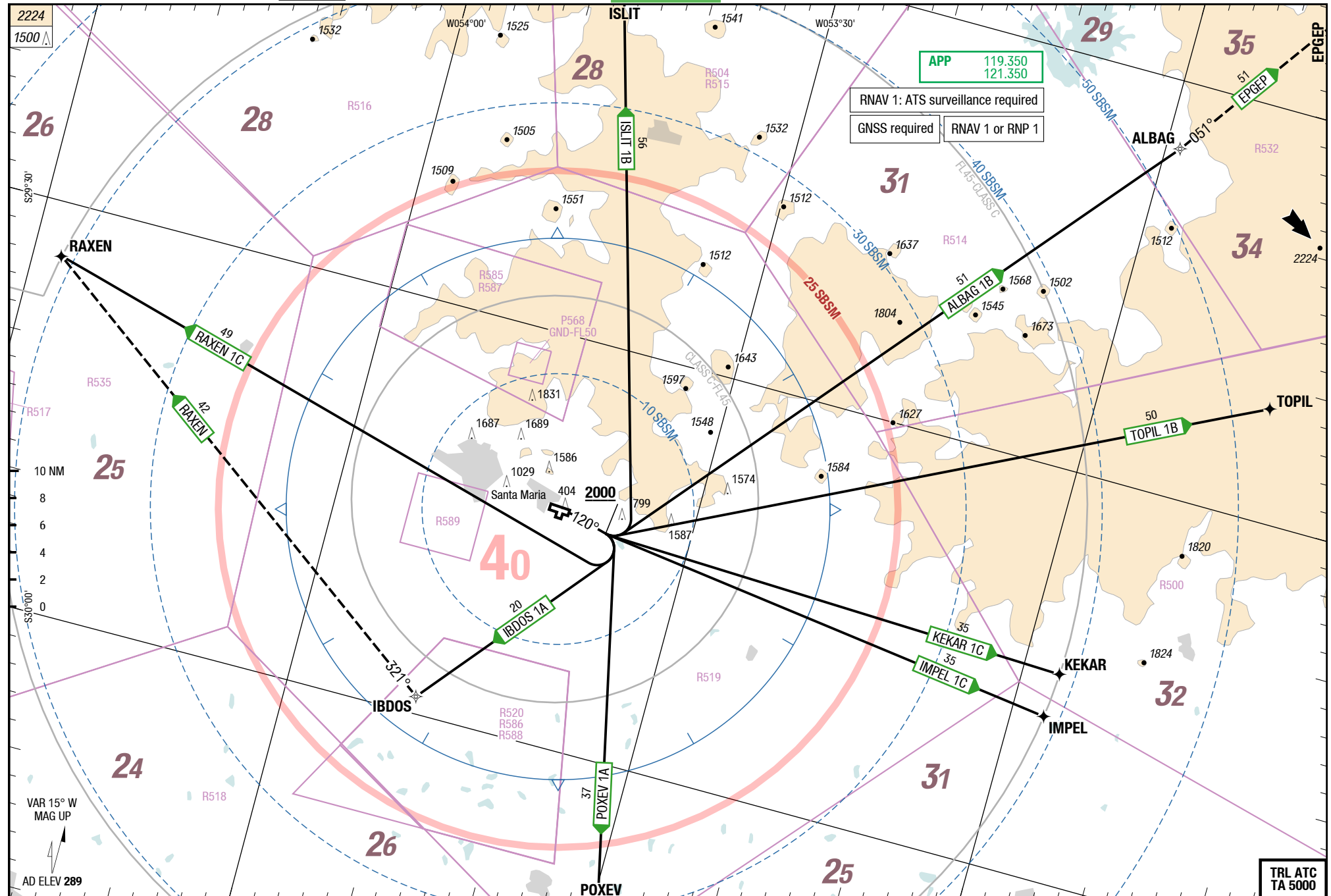
SID

SID

Santa Maria Brazil

RNAV SIDs RWY 29

RNAV SIDs RWY 11



Changes: Completely revised

Effective 01-FEB-2018

25-JAN-2018

RIA-SBSM

4-20

Brazil Santa Maria

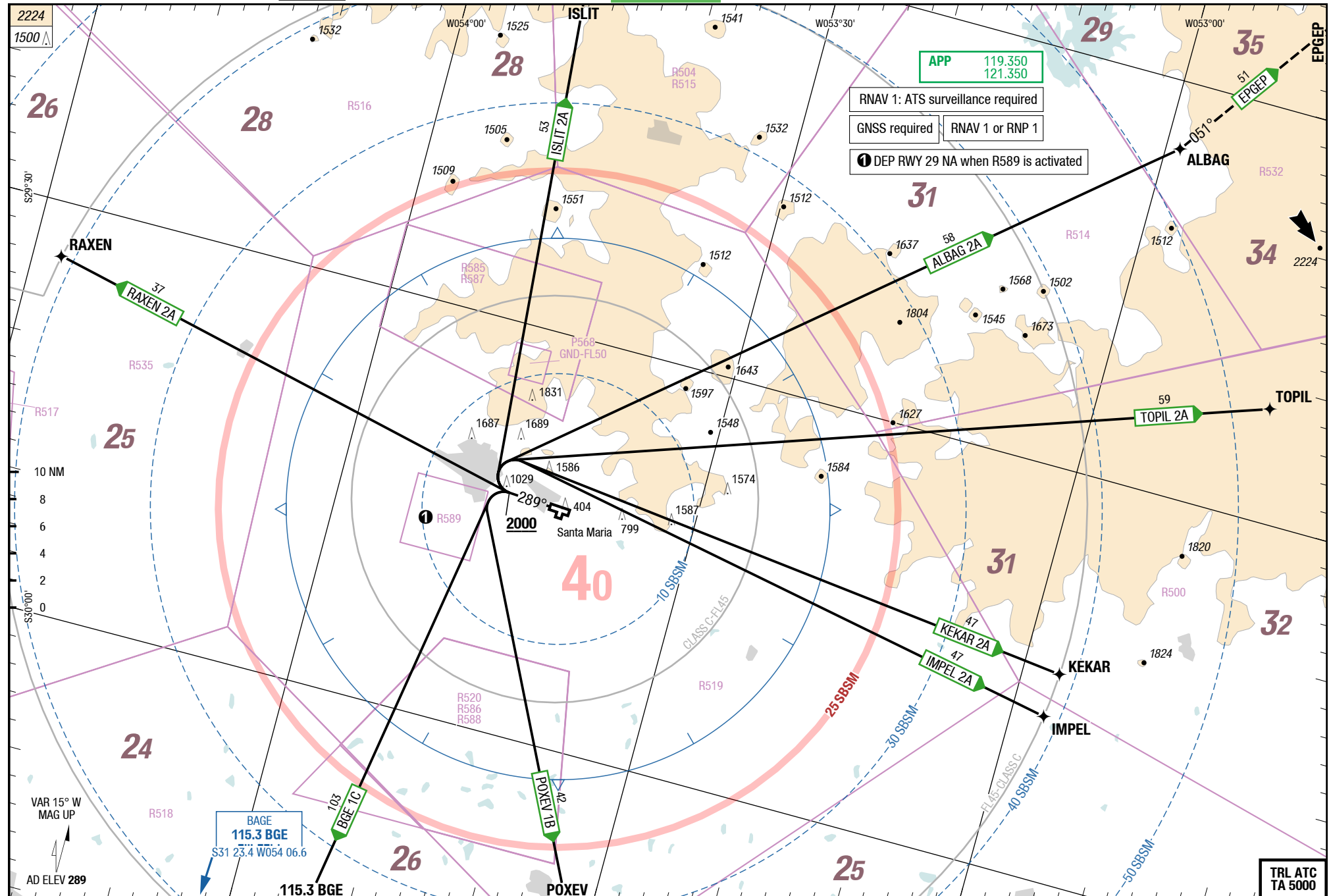
RNAV SIDs RWY 29

SID

SID

Santa Maria Brazil

RNAV SIDs RWY 29



Changes: Completely revised

Effective 01-FEB-2018

25-JAN-2018

RIA-SBSM

Brazil Santa Maria

SIDs RWYs 11/20/29

SIDs RWY 11

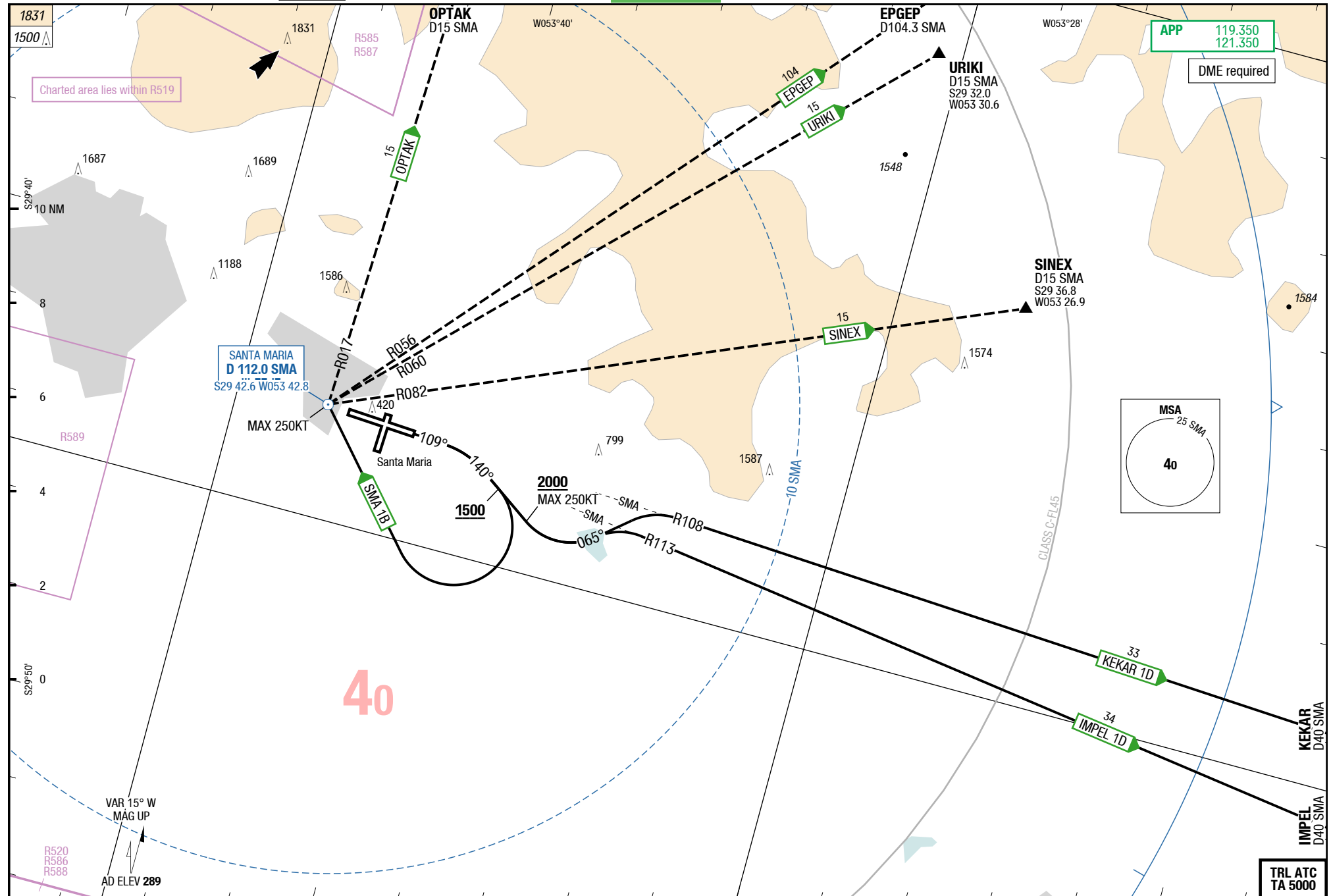
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SID

Santa Maria Brazil

SIDs RWYs 11/20/29

SIDs RWY 11



Changes: Completely revised

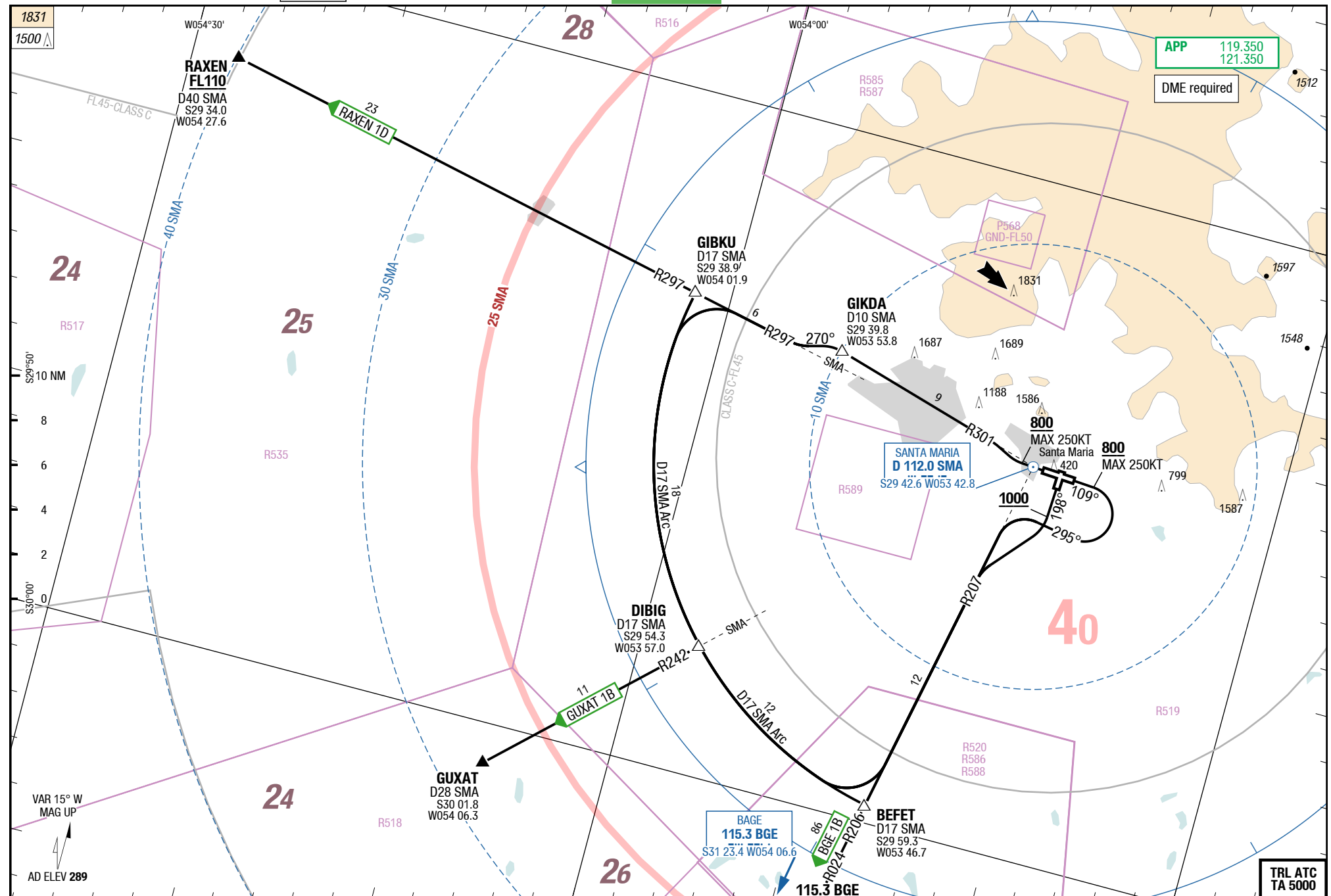
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SIDs RWYs 11/20/29

SID

SID

SIDs RWYs 11/20/29



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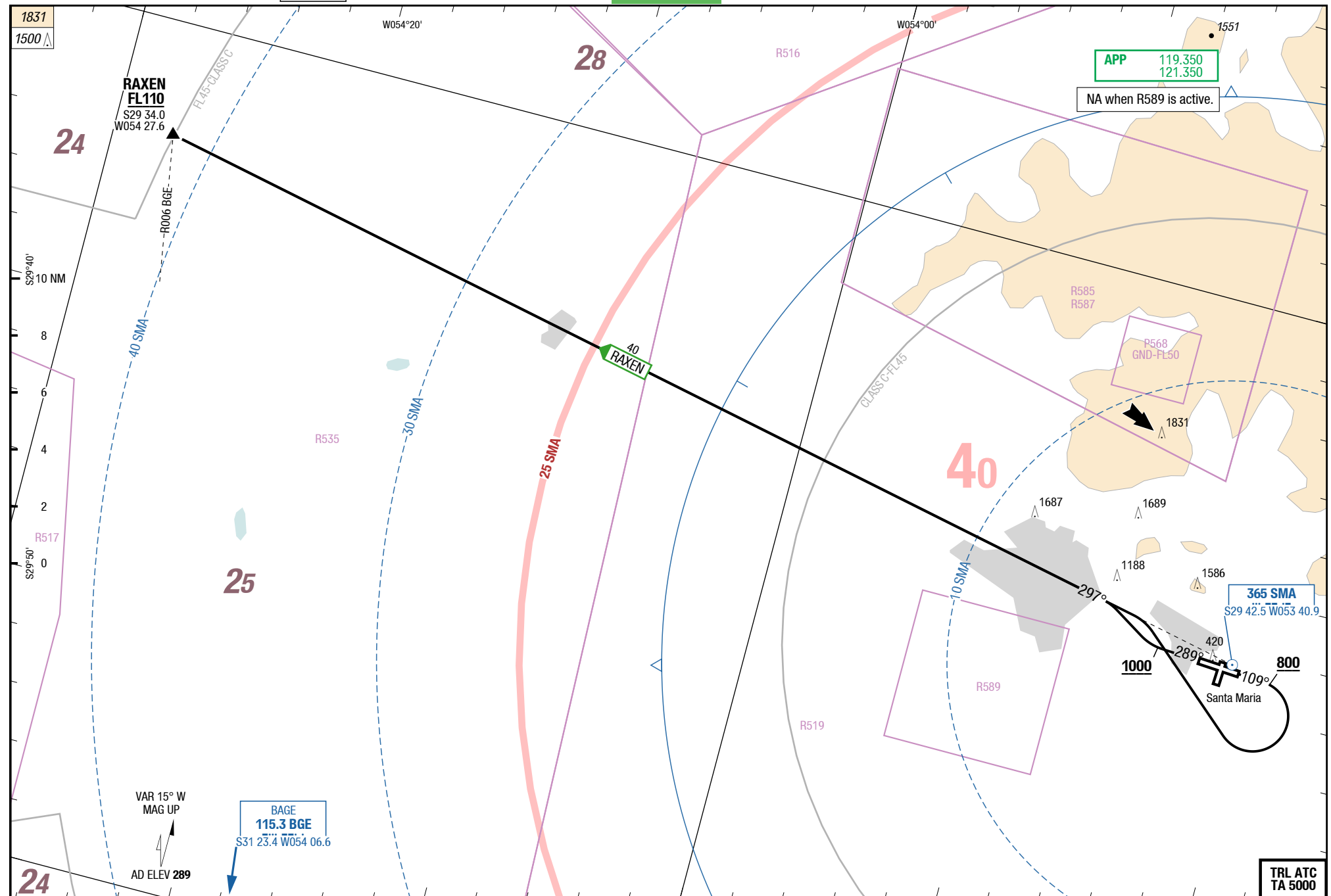
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RWYs 11/29 RAXEN

SID

SID

RWYs 11/29 RAXEN



Changes: ALT, chart title, Track, NAVAID, OBST

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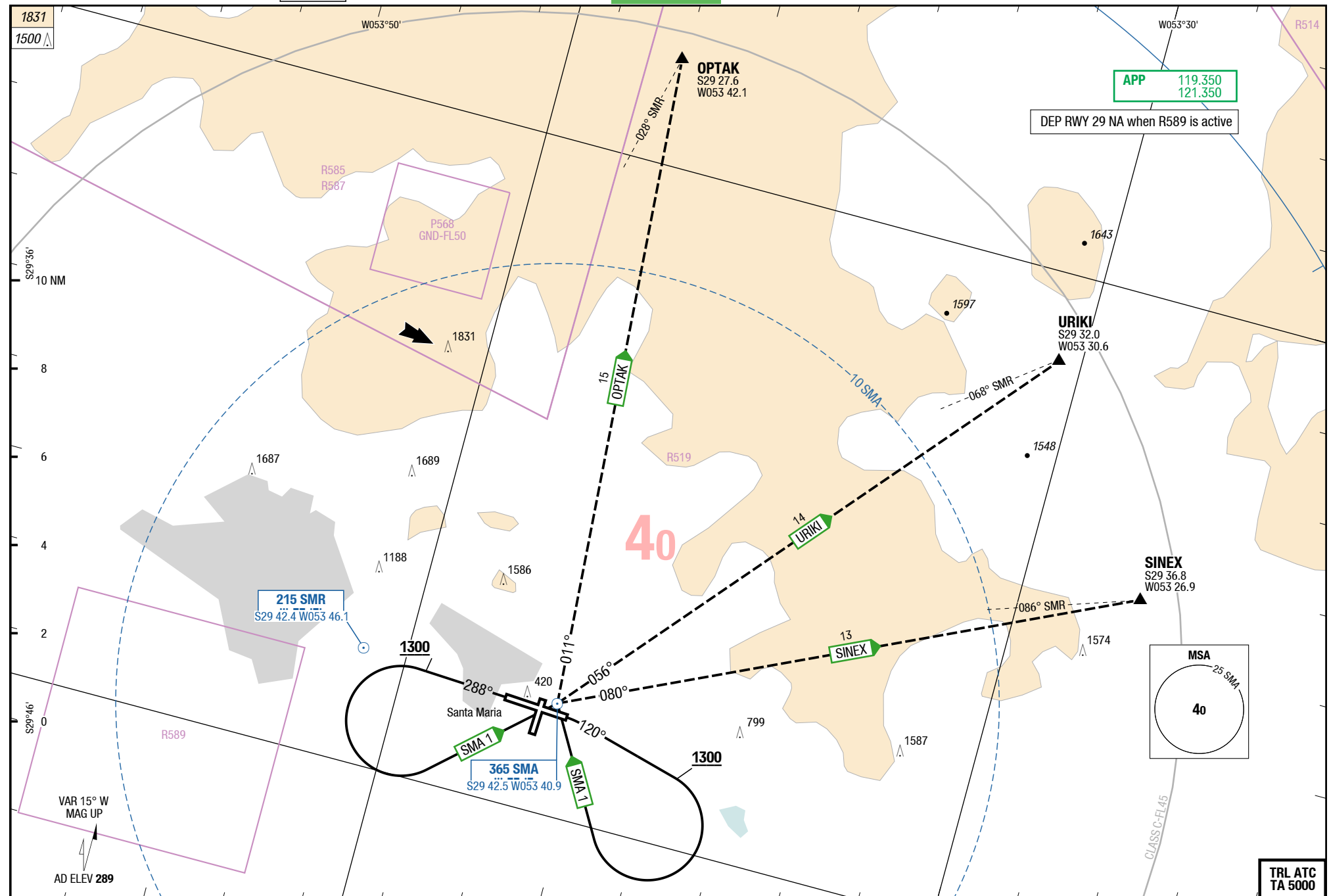
RWYs 11/29 SMA 1

SID

SID

RWYs 11/29 SMA 1

4-60



Changes: ALT, chart title, NAVAID, OBST

TRL ATC
TA 5000

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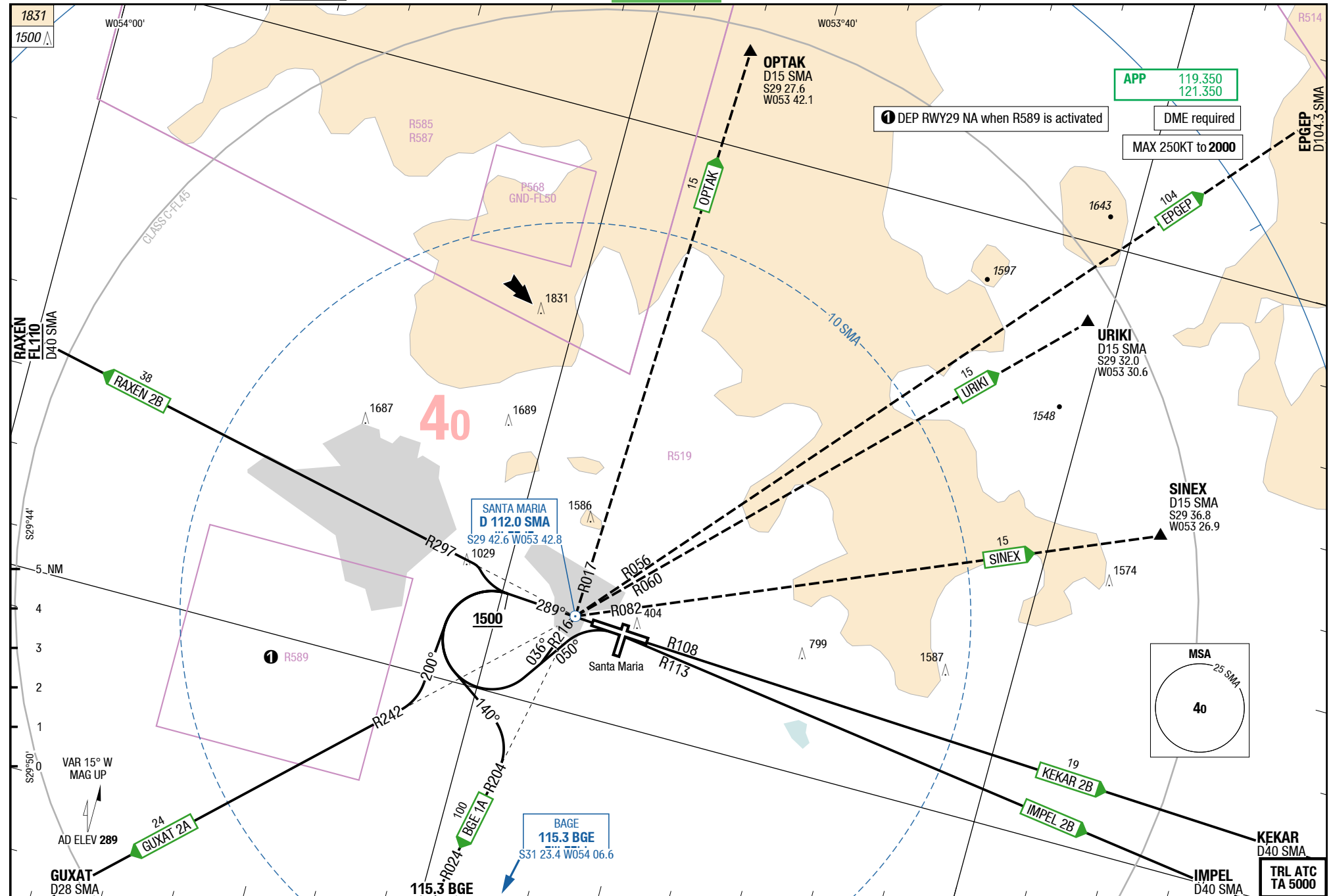
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SIDs RWY 29

SID

SID

SIDs RWY 29



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5-10

RNAV SIDs RWY 11

SIDPT

ALBAG 1B / IBDOS 1A / IMPEL 1C / ISLIT 1B / KEKAR 1C / POXEV 1A / RAXEN 1C / TOPIL 1B

RWY 11 (109°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 11	
ALBAG 1B 119.350	120° [A2000+] - DCT ALBAG	
	TRANSITION	
	EPGEP ALBAG - EPGEP	
IBDOS 1A 119.350	120° [A2000+ ;R] - DCT IBDOS	
	TRANSITION	
	RAXEN IBDOS - RAXEN	
IMPEL 1C 119.350	120° [A2000+] - DCT IMPEL	
ISLIT 1B 119.350	120° [A2000+ ;L] - DCT ISLIT	
KEKAR 1C 119.350	120° [A2000+] - DCT KEKAR	
POXEV 1A 119.350	120° [A2000+] - DCT POXEV	
RAXEN 1C 119.350	120° [A2000+ ;R] - DCT RAXEN	
TOPIL 1B 119.350	120° [A2000+] - DCT TOPIL	

ALBAG 2A / BAGE 1C / IMPEL 2A / ISLIT 2A / KEKAR 2A / POXEV 1B / RAXEN 2A / TOPIL 2A

RWY 29 (289°)

	GS	120	150	180	210	240	270
4.5%	ft/MIN	600	700	900	1000	1100	1300

DESIGNATOR	ROUTING	ALTITUDES
	Runway 29	
ALBAG 2A 4.5% to 2000 119.350 ①	289° [A2000+ ;R] - DCT ALBAG	
	TRANSITION	
	EPGEP ALBAG - EPGEP	
BAGE 1C BGE 1C 4.5% to 2000 119.350 ①	289° [A2000+] - DCT BGE	
IMPEL 2A 4.5% to 2000 119.350 ①	289° [A2000+ ;R] - DCT IMPEL	
ISLIT 2A 4.5% to 2000 119.350 ①	289° [A2000+] - DCT ISLIT	
KEKAR 2A 4.5% to 2000 119.350 ①	289° [A2000+ ;R] - DCT KEKAR	
POXEV 1B 4.5% to 2000 119.350 ①	289° [A2000+ ;L] - DCT POXEV	
RAXEN 2A 4.5% to 2000 119.350 ①	289° [A2000+] - DCT RAXEN	
TOPIL 2A 4.5% to 2000 119.350 ①	289° [A2000+ ;R] - DCT TOPIL	

① NA when R589 is activated

IMPEL 1D / KEKAR 1D / SMA 1B

RWY 11 (109°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 11	
IMPEL 1D 119.350	140° - at MNM 2000 (MAX 250KT) LT 065° - intercept R113 SMA to IMPEL	
KEKAR 1D 119.350	140° - at MNM 2000 (MAX 250KT) LT 065° - intercept R108 SMA to KEKAR	
SMA 1B 119.350	140° - at MNM 1500 RT direct SMA (MAX 250KT)	
	TRANSITION	
	EPGEP SMA - R056 SMA to EPGEP	
	OPTAK SMA - R017 SMA to OPTAK	
	SINEX SMA - R082 SMA to SINEX	
	URIKI SMA - R060 SMA to URIKI	

BAGE 1B / GUXAT 1B / RAXEN 1D

RWYs 11 (109°) / 20 (198°) / 29 (289°)

	GS	120	150	180	210	240	270
4.5%	ft/MIN	600	700	900	1000	1100	1300

DESIGNATOR	ROUTING	ALTITUDES
Runway 11		
BAGE 1B BGE 1B 4.5% to 1000 119.350 ①②	at MNM 800 (MAX 250KT) RT 295° - intercept R207 SMA to BEFET - R206 SMA (R024 BGE) to BGE	
GUXAT 1B 4.5% to 1000 119.350 ①②	at MNM 800 (MAX 250KT) RT 295° - intercept R207 SMA to BEFET - RT follow D17 SMA arc to DIBIG - intercept R242 SMA to GUXAT	
RAXEN 1D 4.5% to 1000 119.350 ①②	at MNM 800 (MAX 250KT) RT 295° - intercept R207 SMA to BEFET - RT follow D17 SMA arc to GIBKU - intercept R297 SMA to RAXEN	RAXEN MNM FL110
Runway 20		
BAGE 1B BGE 1B 119.350	at MNM 1000 RT - intercept R207 SMA to BEFET - R206 SMA (R024 BCG) to BGE	
GUXAT 1B 119.350	at MNM 1000 RT - intercept R207 SMA to BEFET - RT follow D17 SMA arc to DIBIG - intercept R242 SMA to GUXAT	
RAXEN 1D 119.350	at MNM 1000 RT - intercept R207 SMA to BEFET - RT follow D17 SMA arc to GIBKU - intercept R297 SMA to RAXEN	RAXEN MNM FL110
Runway 29		
BAGE 1B BGE 1B 4.5% to 1500 119.350 ②	at MNM 800 (MAX 250KT) RT intercept R301 SMA to GIKDA - LT 270° - intercept R297 SMA to GIBKU - LT follow D17 SMA arc to BEFET - intercept R206 SMA (R024 BGE) to BGE	
GUXAT 1B 4.5% to 1500 119.350 ②	at MNM 800 (MAX 250KT) RT intercept R301 SMA to GIKDA - LT 270° - intercept R297 SMA to GIBKU - LT follow D17 SMA arc to DIBIG - intercept R242 SMA to GUXAT	

① Trees 1534m/5033ft from DER, AZM 276°, up to 441ft.

② Close in OBST not considered in climb gradient.

RAXEN 1D

RWY 29 (289°)

	GS	120	150	180	210	240	270
4.5%	ft/MIN	600	700	900	1000	1100	1300

DESIGNATOR	ROUTING	ALTITUDES
	Runway 29	
RAXEN 1D 4.5% to 1500 119.350 ①	at MNM 800 (MAX 250KT) RT intercept R301 SMA to GIKDA - LT 270° - intercept R297 SMA to GIBKU - RAXEN	RAXEN MNM FL110

① Close in OBST not considered in climb gradient.

SANTA MARIA 1

RWYs 11 (109°) / 29 (289°)

	GS	120	150	180	210	240	270
4.0%	ft/MIN	500	700	800	900	1000	1100

DESIGNATOR	ROUTING	ALTITUDES
	Runway 11	
SANTA MARIA 1 SMA 1 4.0% to 1300 119.350	RT 120° - at MNM 1300 RT direct SMA NDB	
	TRANSITION	
	OPTAK SMA NDB - QDR 011 SMA to OPTAK	
	SINEX SMA NDB - QDR 080 SMA to SINEX	
	URIKI SMA NDB - QDR 056 SMA to URIKI	
	Runway 29	
SANTA MARIA 1 SMA 1 4.0% to 1300 119.350 ①	at MNM 1300 LT direct SMA NDB	
	TRANSITION	
	OPTAK SMA NDB - QDR 011 SMA to OPTAK	
	SINEX SMA NDB - QDR 080 SMA to SINEX	
	URIKI SMA NDB - QDR 056 SMA to URIKI	

① DEP RWY 29 NA when R589 is active

RAXEN

RWYs 11 (109°) / 29 (289°)

	GS	120	150	180	210	240	270
4.5%	ft/MIN	600	700	900	1000	1100	1300

DESIGNATOR	ROUTING	ALTITUDES
	Runway 11	
RAXEN 4.5% to 2500 119.350 ①	at MNM 800 RT intercept QDR 297 SMA to RAXEN	RAXEN MNM FL110
	Runway 29	
RAXEN 4.5% to 1600 119.350 ①	at MNM 1000 RT intercept QDR 297 SMA to RAXEN	RAXEN MNM FL110

① NA when R589 is active.

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5-80

SIDs RWY 29

BAGE 1A / GUXAT 2A / IMPEL 2B / KEKAR 2B / RAXEN 2B / SANTA MARIA 2A
RWY 29 (289°)

	GS	120	150	180	210	240	270
4.7%	ft/MIN	600	800	900	1000	1200	1300

DESIGNATOR	ROUTING	ALTITUDES
	Runway 29	
BAGE 1A BGE 1A 4.7% to 1500 119.350 ①	at MNM 1500 LT 140° - intercept R204 SMA (R024 BGE) to BGE	
GUXAT 2A 4.7% to 1500 119.350 ①	at MNM 1500 200° - intercept R242 SMA to GUXAT	
IMPEL 2B 4.7% to 1500 119.350 ①	at MNM 1500 LT 050° - intercept R113 SMA to IMPEL	
KEKAR 2B 4.7% to 1500 119.350 ①	at MNM 1500 LT 050° - intercept R108 SMA to KEKAR	
RAXEN 2B 4.7% to 1500 119.350 ①	at MNM 1500 RT intercept R297 SMA to RAXEN	RAXEN MNM FL110
SANTA MARIA 2A SMA 2A 4.7% to 1500 119.350 ①	at MNM 1500 LT intercept R216 SMA to SMA	
	TRANSITION	
	EPGEP SMA - R056 SMA to EPGEP	
	OPTAK SMA - R017 SMA to OPTAK	
	SINEX SMA - R082 SMA to SINEX	
	URIKI SMA - R060 SMA to URIKI	

① DEP NA when R589 is active.

Effective 01-FEB-2018

25-JAN-2018

RIA-SBSM

6-10

Brazil Santa Maria

RNAV STARs 29

RNAV STARs 11

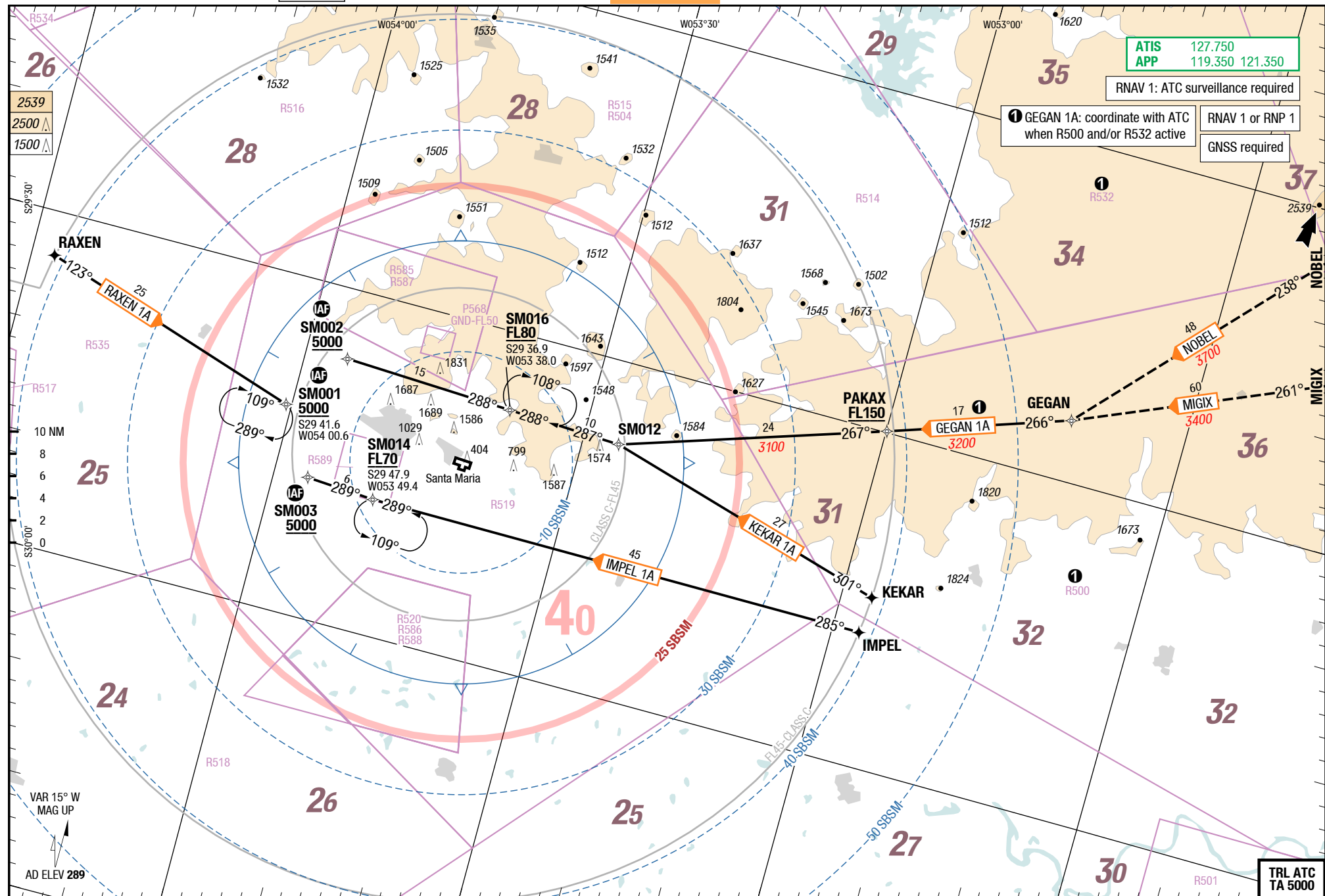
STAR

STAR

Santa Maria Brazil

RNAV STARs 29

RNAV STARs 11



Changes: new

RIA-SBSM

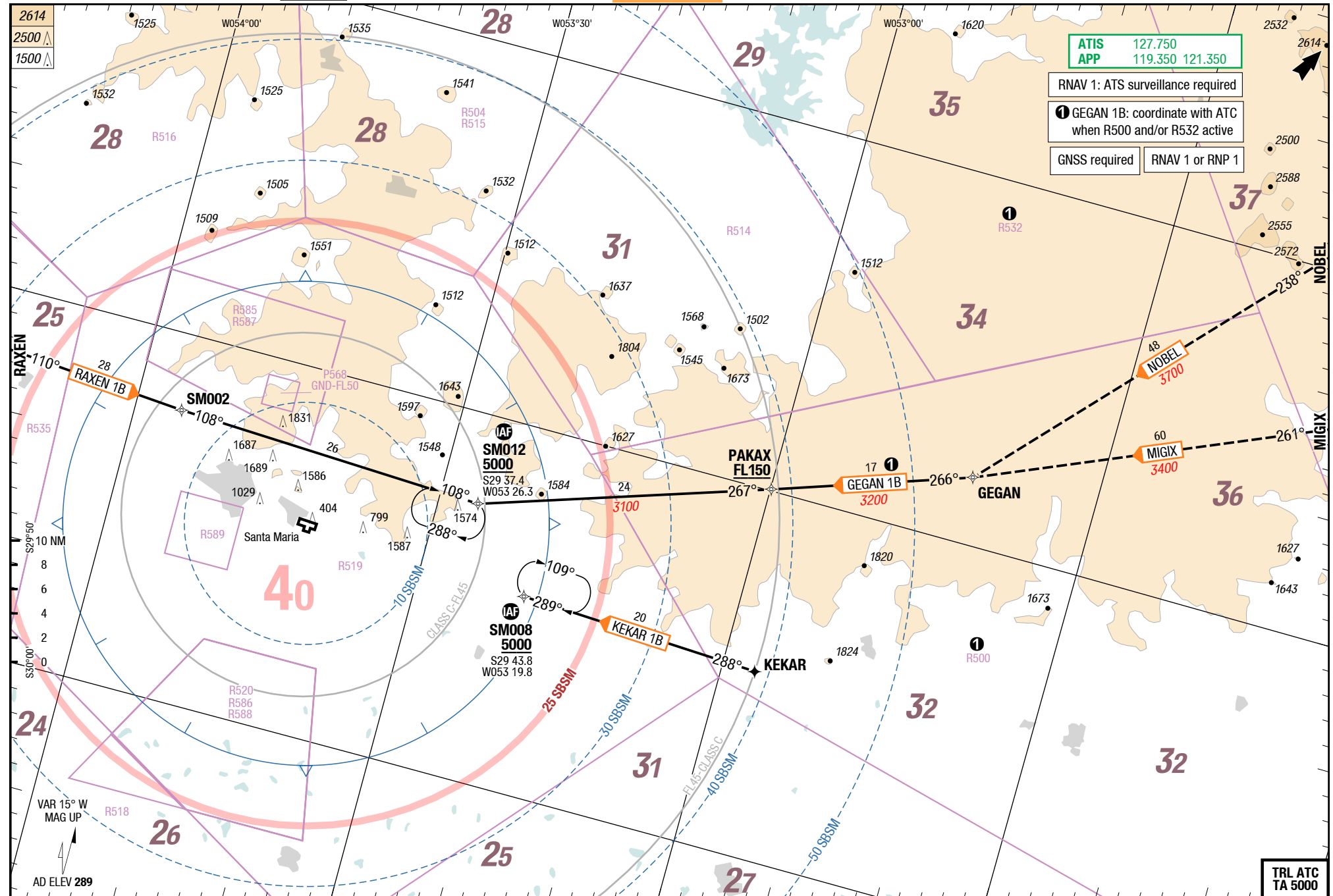
RNAV STARs 29

STAR

STAR

RNAV STARs 29

6-20

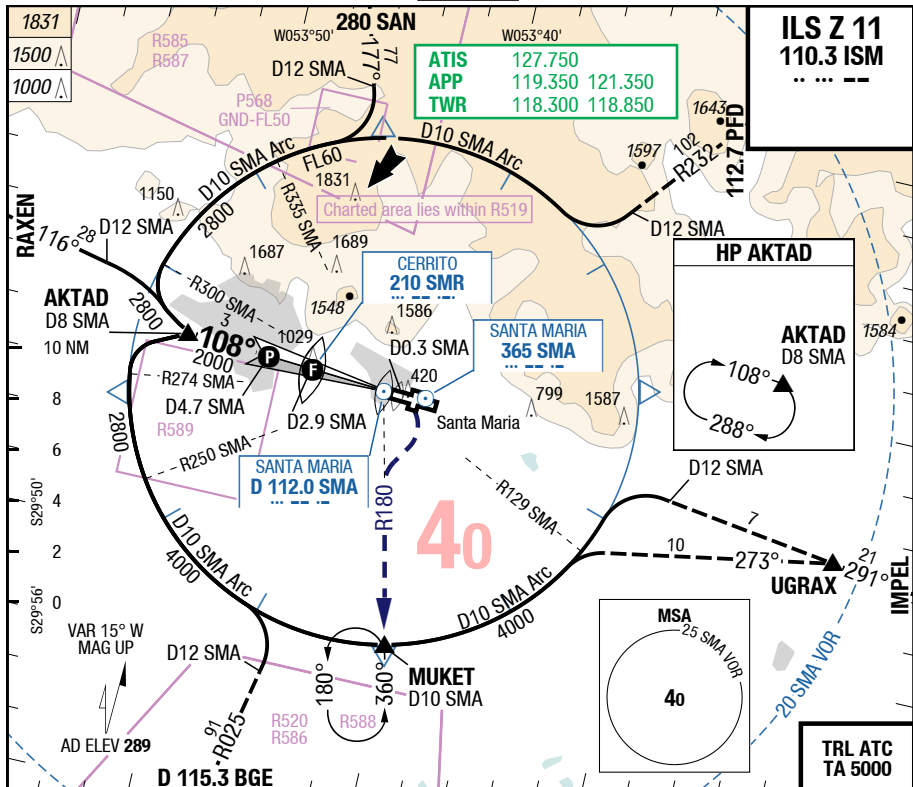


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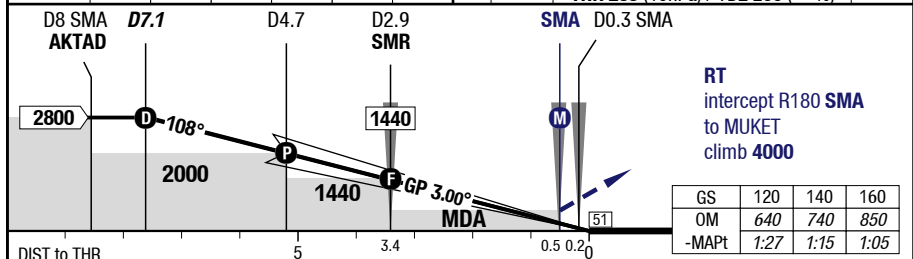
RIA-SBSM

7-10

ILS Z 11



LOC 3.00°	7.1	5	4	3	2	1	83.0°	60 L
D SMA							2694 x 45	
108°	2800	2130	1800	1480	1150	820		
RWY 109°								

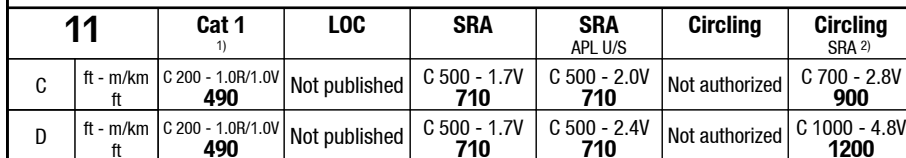


11	Cat 1 ₁₎	LOC	LOC APL U/S	SRA	Circling ₂₎	Circling SRA ₂₎
C	ft - m/km ft	C 200 - 1.0V 490	C 500 - 1.9V 750	C 500 - 1.7V 710	C 1000 - 3.7V 1220	C 700 - 2.8V 900
D	ft - m/km ft	C 200 - 1.0V 490	C 500 - 1.9V 750	C 500 - 2.4V 750	C 500 - 1.7V 710	C 1000 - 4.6V 1220

1) With EVS VIS 800m

2) S of AD and to RWY 29 only

Changes: MIN, TA, LDA, QFU, OBST, THR ELEV

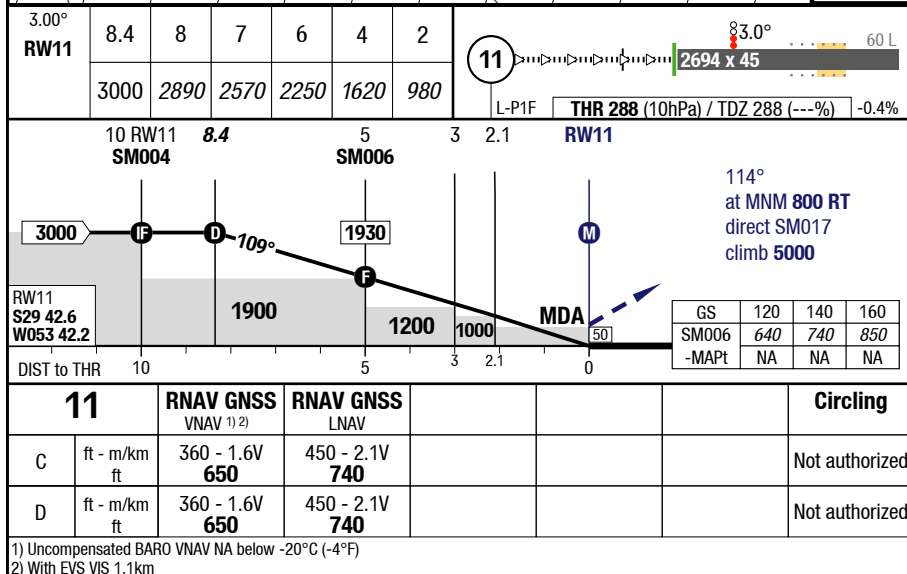
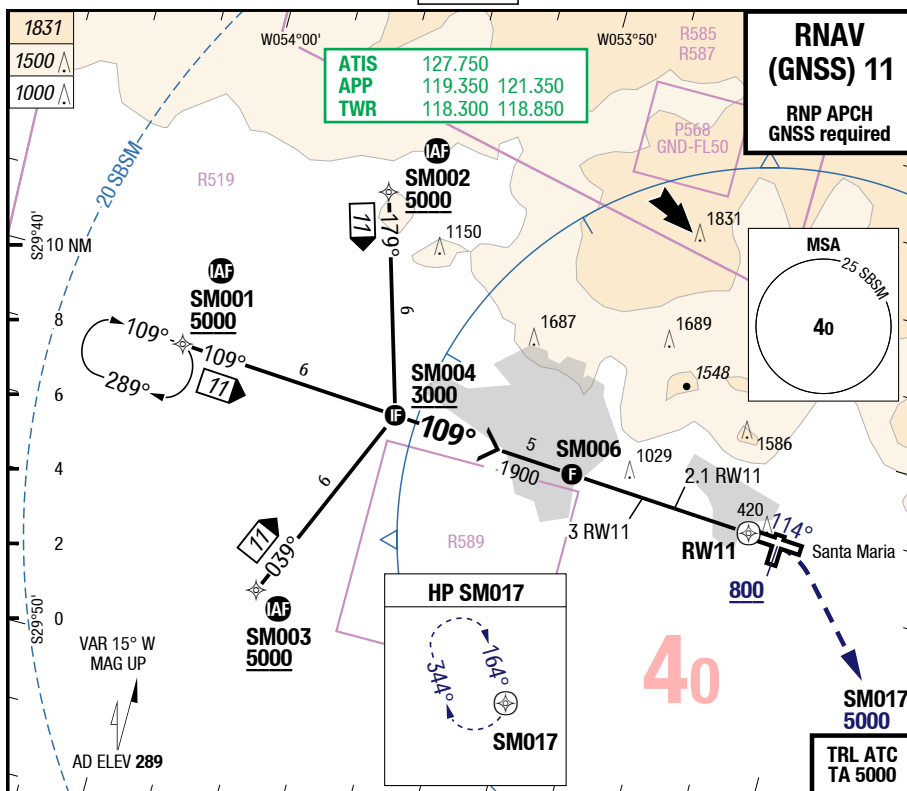


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7-30

RNAV (GNSS) 11

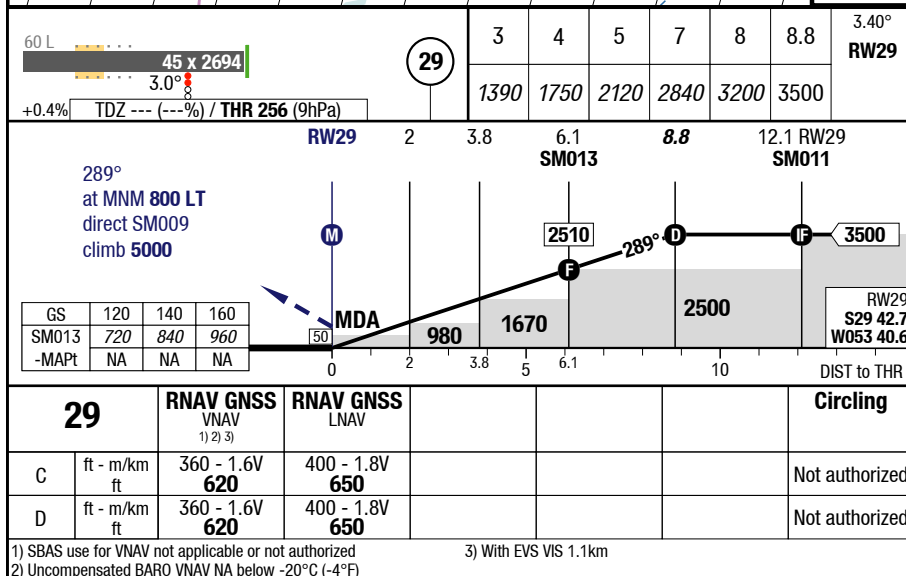
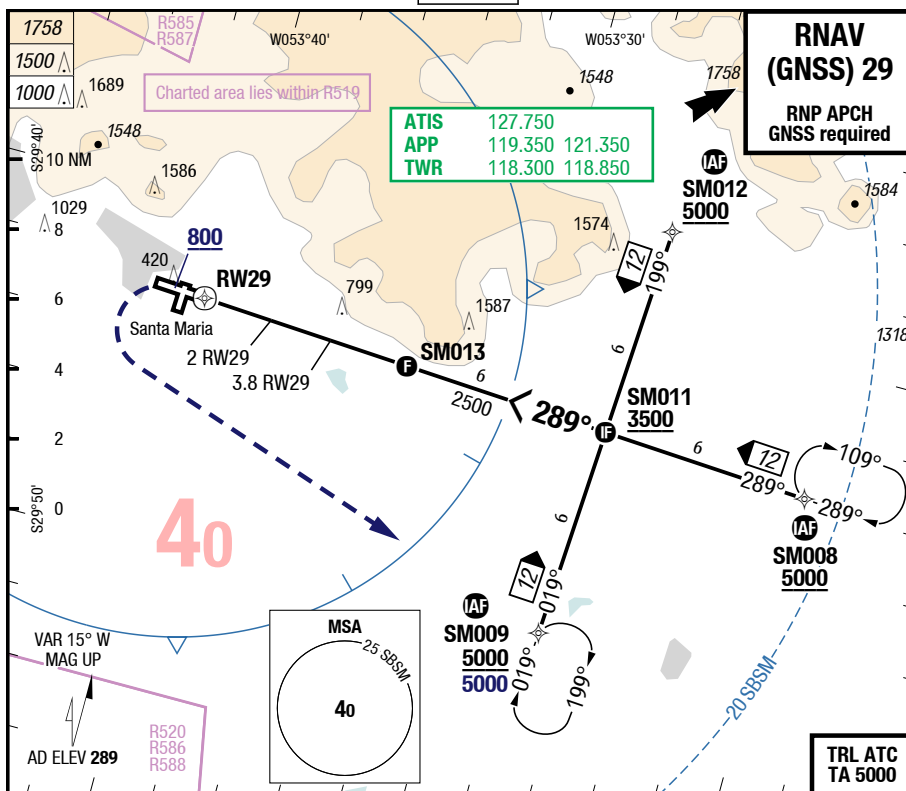


Changes: MIN, APL, LDA, THR ELEV, OBST

RIA-SBSM

7-40

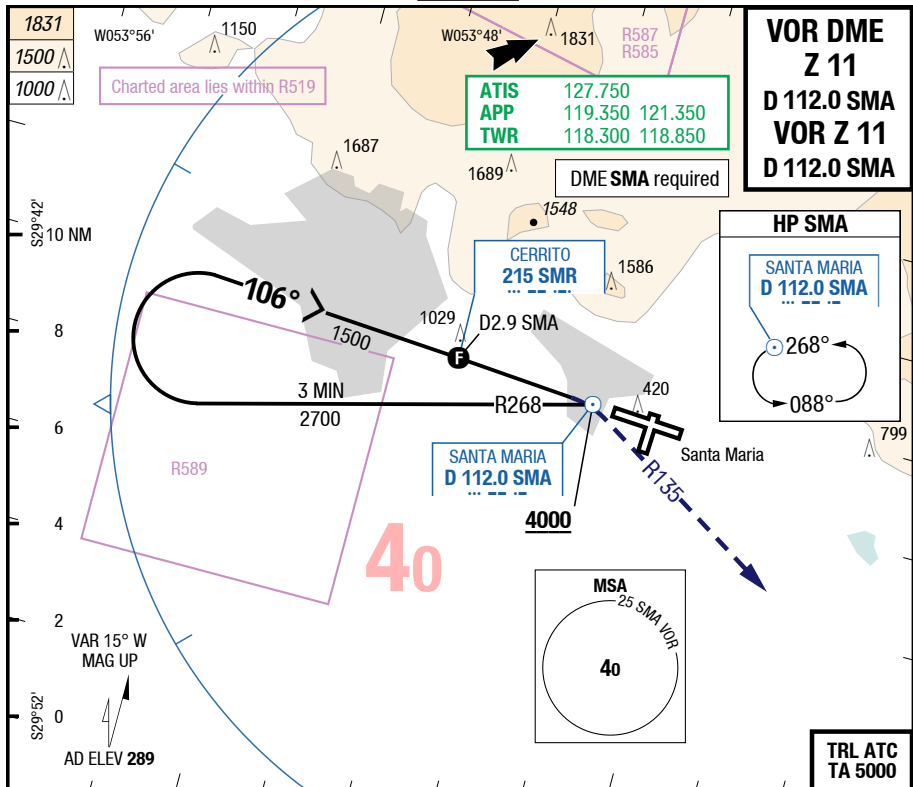
RNAV (GNSS) 29



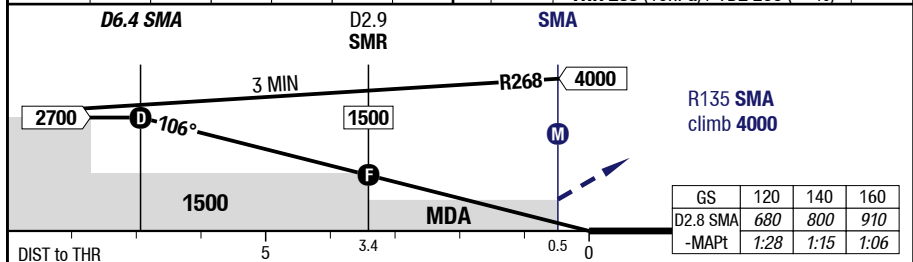
RIA-SBSM

7-50

VOR DME Z 11 / VOR Z 11



3.21° D SMA 106° RWY 109°	6.4	5	4	3	2	1	11	83.0°	60 L	2694 x 45	L-P1F	THR 288 (10hPa) / TDZ 288 (---%) -0.4%
	2700	2210	1870	1530	1190	850						



11	VOR DME	VOR NDB SMR	VOR	VOR APL U/S	Circling 1)
C	ft - m/km ft C 500 - 1.9V 750	C 500 - 1.9V 750	C 1100 - 3.2V 1310	C 1100 - 4.0V 1310	C 1100 - 4.4V 1310
D	ft - m/km ft C 500 - 1.9V 750	C 500 - 1.9V 750	C 1100 - 4.0V 1310	C 1100 - 4.8V 1310	C 1100 - 4.8V 1310

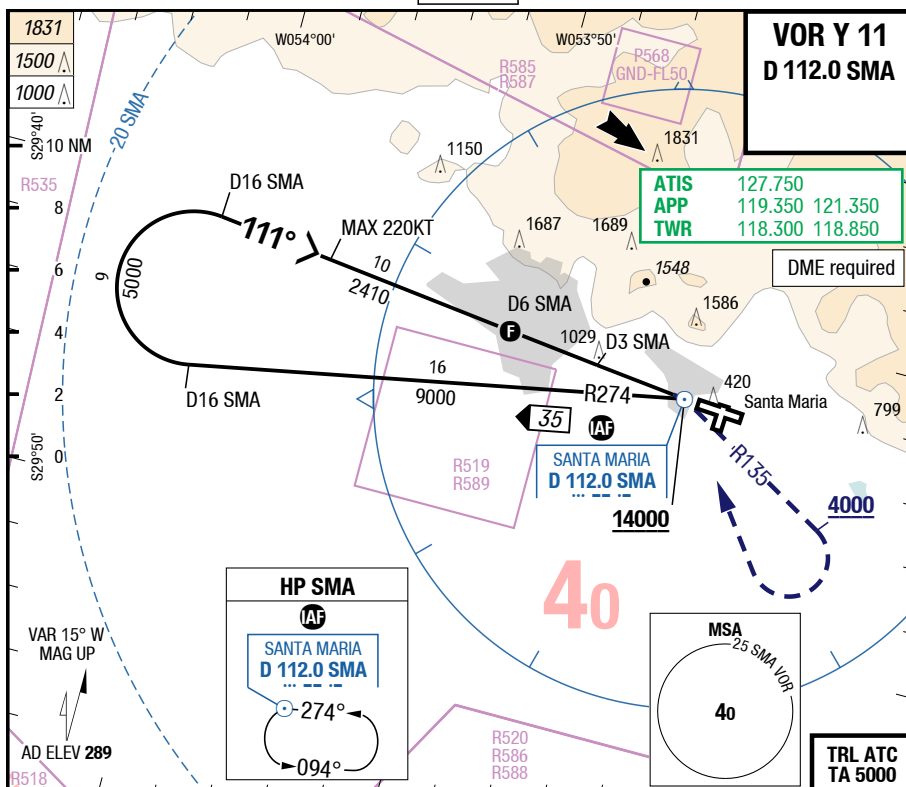
1) S of AD and to RWY 29 only

Changes: MIN, TA, LDA, APL, QFU, SUAs, THR ELEV, OBST

RIA-SBSM

7-60

VOR Y 11



11		VOR DME GA 3.8% 1)	VOR DME GA 3.8% APL U/S 1)	Circling	
C	ft - m/km ft	C 600 - 2.4V 860	C 600 - 2.5V 860	Not authorized	
D	ft - m/km ft	C 600 - 2.4V 860	C 600 - 2.5V 860	Not authorized	

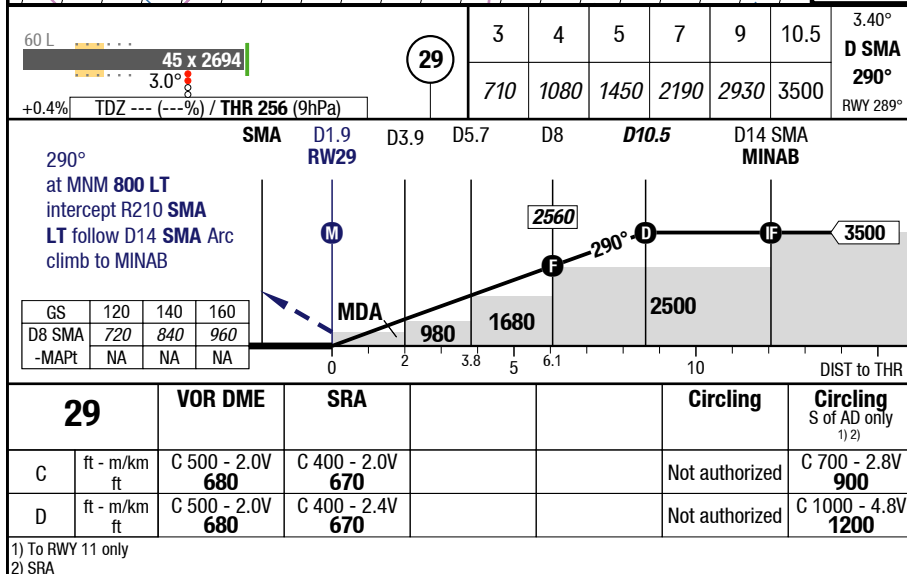
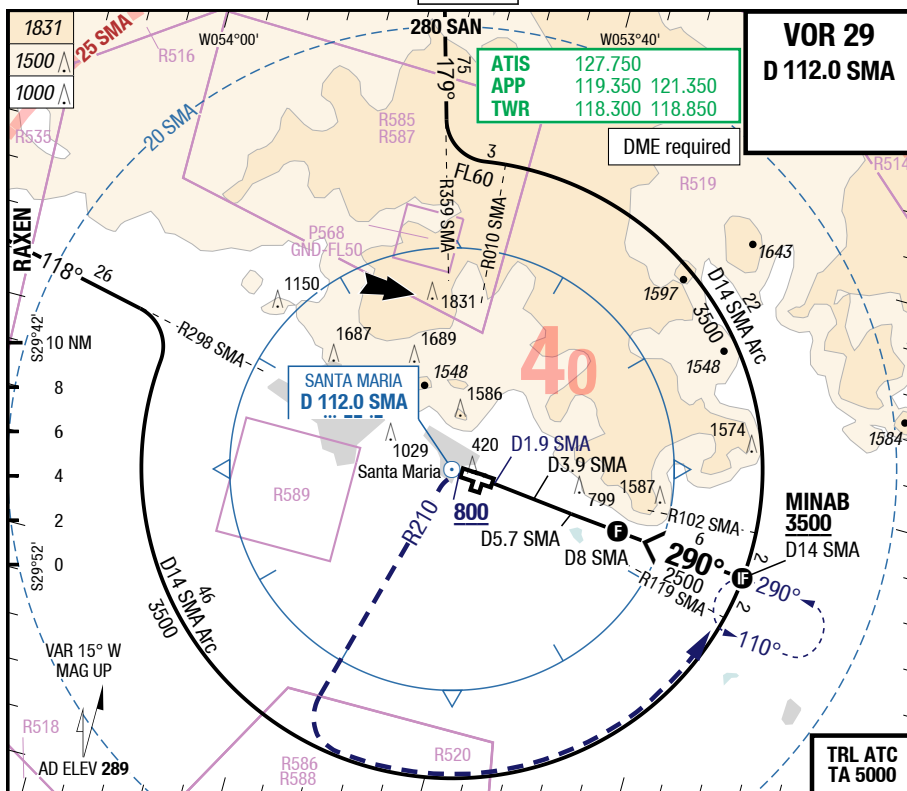
1) Up to 4000ft

Changes: MIN, APL, ALT, LDA, TA, QFU, OBST, SUAs, THR ELEV

RIA-SBSM

7-70

VOR 29

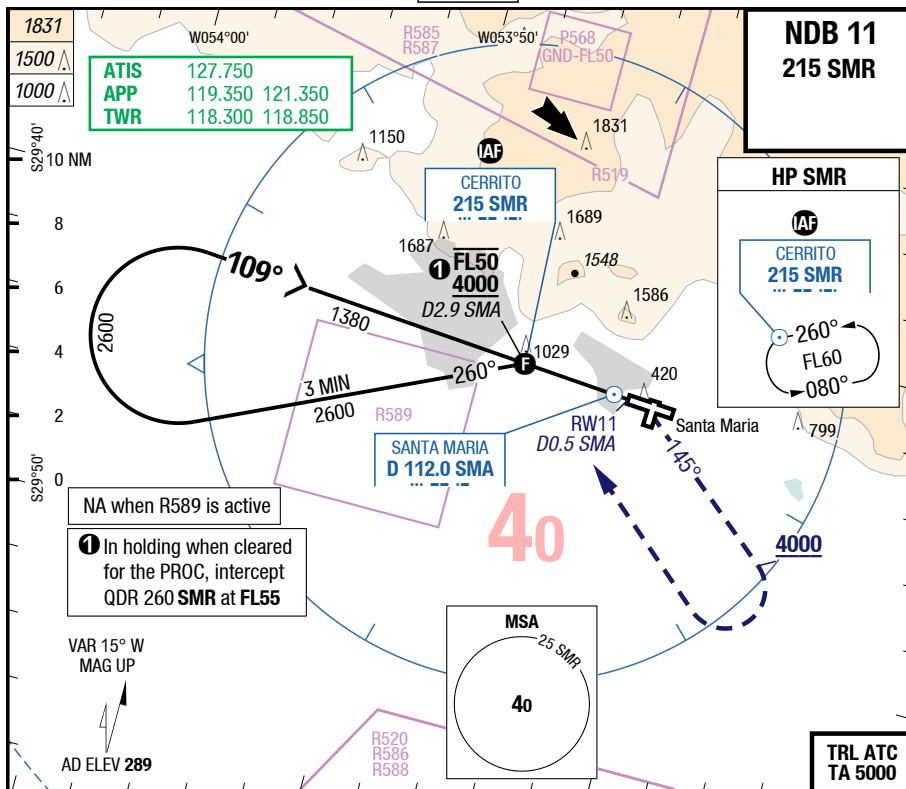


Changes: APL, ALT, LDA, TA, SUAs, QFU, OBST, THR ELEV

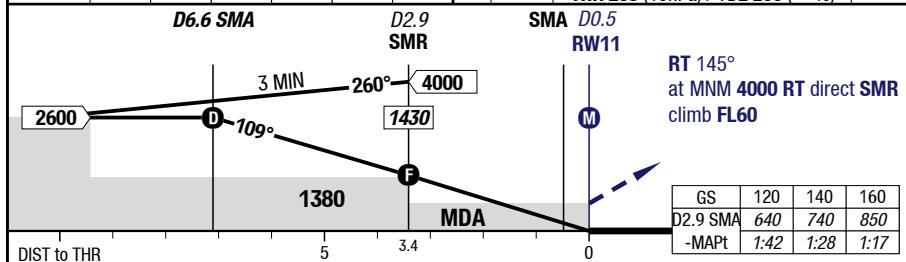
RIA-SBSM

7-80

NDB 11



3.00°	6.6	6	5	4	3	2	83.0°	60 L
D SMA	2600	2410	2090	1770	1450	1130	2694 x 45	
							L-P1F	THR 288 (10hPa) / TDZ 288 (---%) -0.4%



11	NDB	NDB APL U/S		Circling 1)
C	ft - m/km ft	C 600 - 2.4V 860	C 600 - 2.6V 860	C 900 - 4.0V 1130
D	ft - m/km ft	C 600 - 2.4V 860	C 600 - 2.6V 860	C 1000 - 4.8V 1200

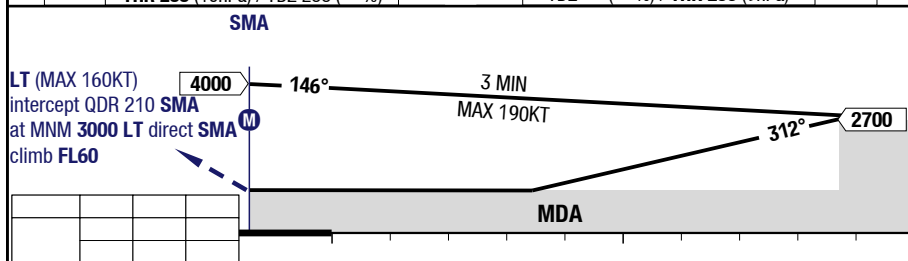
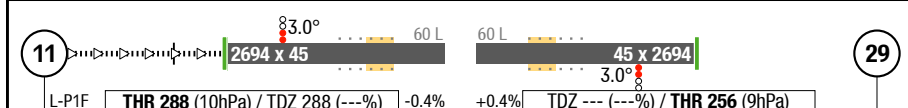
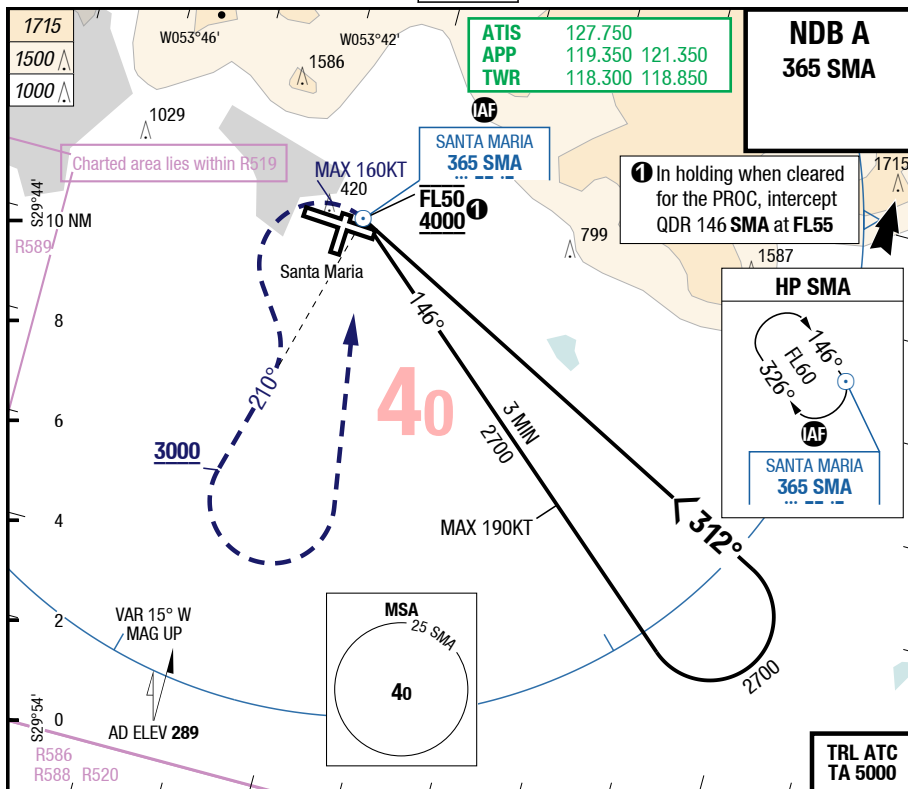
1) S of AD and to RWY 29 only

Changes: MIN, ALT, TA, LDA, APL, QFU, THR ELEV, OBST

RIA-SBSM

7-90

NDB A



11/29							Circling S of AD only GA 4.0%
C	ft - m/km ft						C 800 - 3.6V 1050
D	ft - m/km ft						C 1000 - 4.8V 1200

RIA-SBSM

7-110

WxMinima Overflow

11		SRA APL U/S					
C	ft - m/km ft	C 500 - 2.0V 710					
D	ft - m/km ft	C 500 - 2.4V 710					