

GENERAL**Operational Hours****ATS Hours / AD Operator Hours:** H24**Airport Information****RFF:** CAT 9**PCN:** RWY 13/31: 66/F/A/X/T**Operation****RWY Restriction**

RWY friction calibration between 300-500m / 984-1640ft from THR 13 below MNM.

TWY Restriction

TWY J (between TWYs I and E) MAX wingspan 36m / 118ft.

Code letter C ACFT and above are prohibited to use TWY E, leaving general aviation terminal to enter or cross RWY.

Taxi/Parking

Jet/Turboprop with wingspan above 24m / 79ft are prohibited to execute manoeuvres turning their tails towards the PAX terminal, general aviation facilities and cargo terminal buildings.

Engine Run-up Areas

ENG run-ups must be coordinated with at least 1HR of priority with AD Administration.

ENG run-ups are allowed at the following areas:

- TWY H, MON-FRI 0900-1100, SAT, SUN and HOL 0900-0030
- TWY A (between intersection K and B), MON-FRI 1130-0030

Warnings

Birds in vicinity of AD.

ARRIVAL**Communication****COM Failure:** See CRAR.**Arrival Procedure****Non-standard GP intercept position on RWY 13**

GP intercepts RWY 13 at 337m / 1107ft after landing threshold.

Remaining LDG DIST beyond GP is 2208m / 7243ft.

DEPARTURE

Take-off Minima

RWY		13/31	
Multi ENG	ft - m/km	0 - 600V	TKOF ALTN AVBL, HJ only
		0 - 800V	TKOF ALTN AVBL, HN
All ACFT		c1000 - 1.6V	-

Departure Procedure

Start-up/Push-back

For ACFT with wingspan above 24m / 79ft push-back from APN 2 and 3 mandatory.

Noise Abatement Procedure

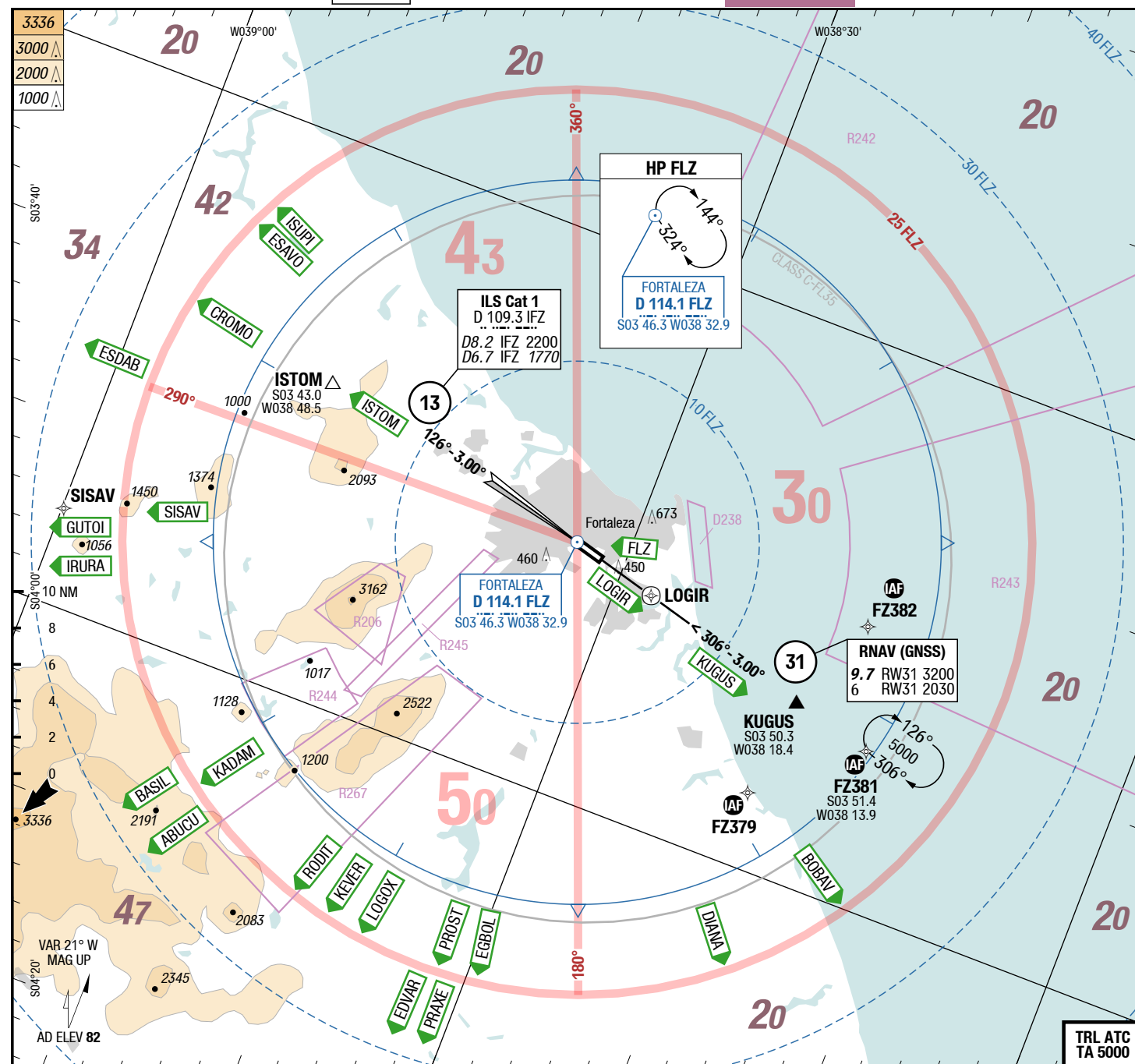
Perform the noise attenuation procedure specific for the equipment or keep V2+10KT until 900ft then between V2+10KT and V2+20KT until 3100ft.

FOR-SBFZ


AFC


AFC

2-10



DCL

60 HL  45 x 2545

+0.2%  TDZ --- (---%) / THR 63 (2hPa)

TRL ATC
TA 5000

Changes: APL, OBST, THR ELEV, Editorial

13-JUL-2017

FOR-SBFZBrazil **Fortaleza** Pinto Martins Intl

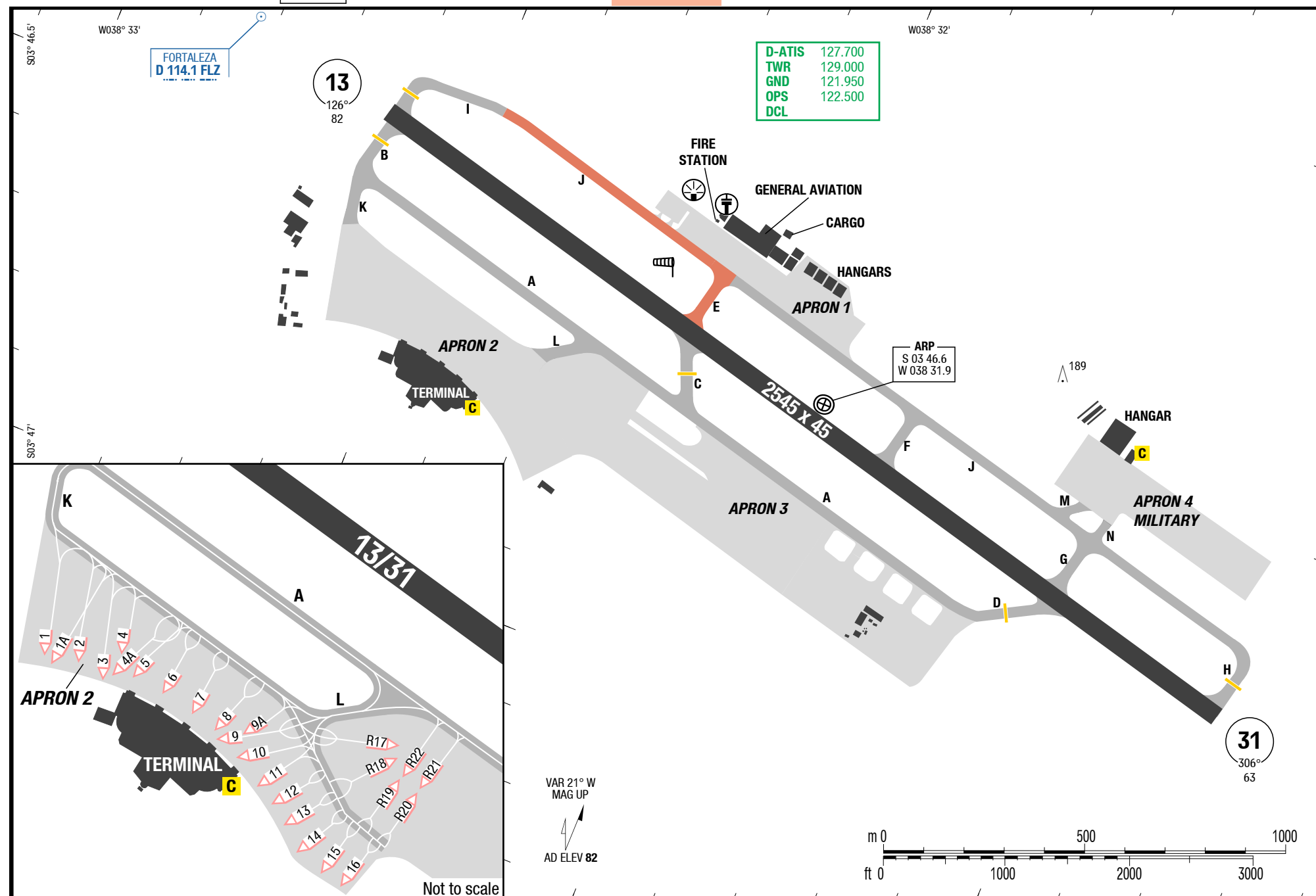
AGC

AGC

AGC

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AGC



Changes: THR ELEV

13-JUL-2017

Brazil **Fortaleza** Pinto Martins Intl

RNAV SID BOBAV 1A

SID

SID

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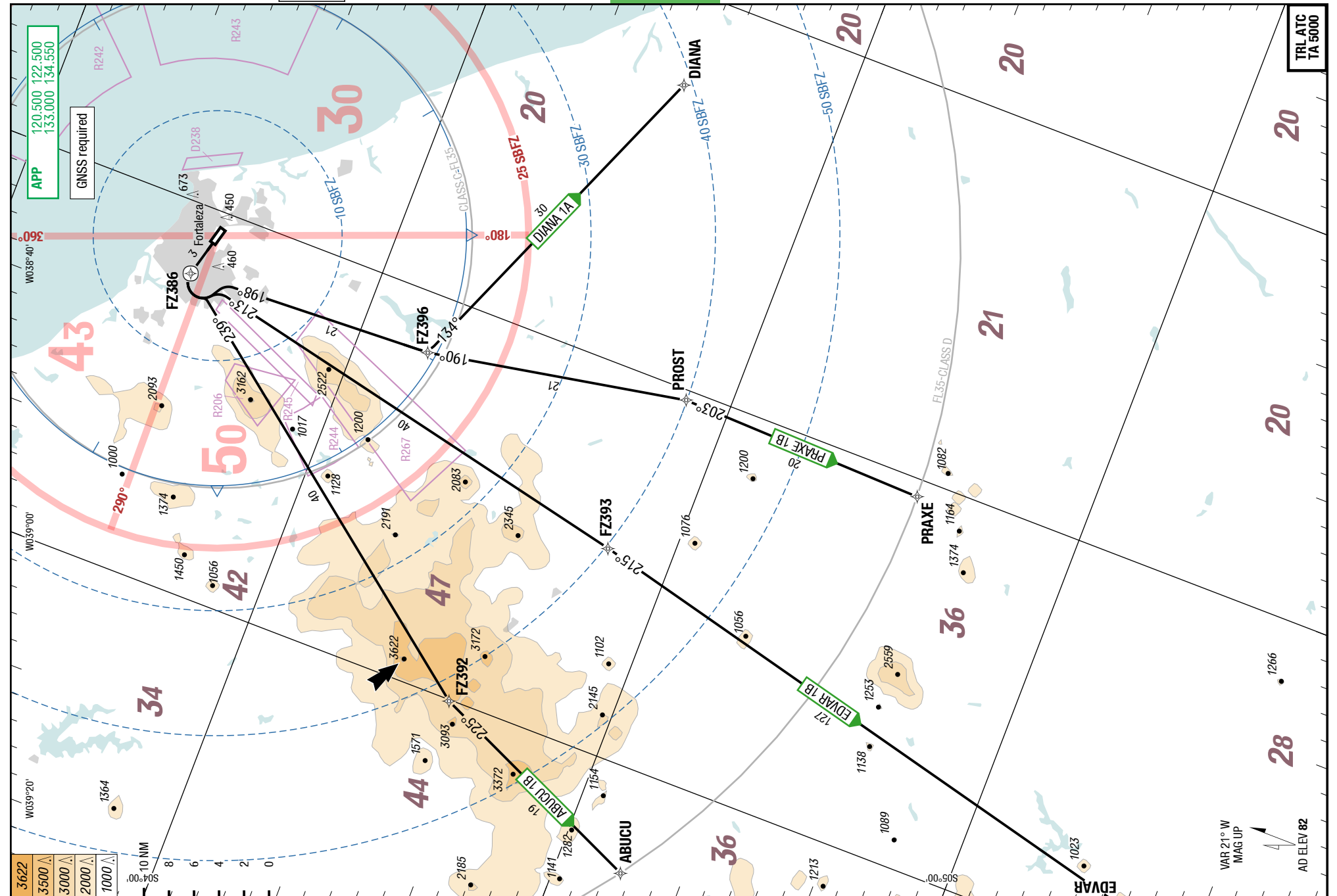
RNAV SID BOBAV 1A

RNAV SIDs ABUCU/DIANA/EDVAR/PRAXE

FOR-SBFZ

4-10

RNAV SIDs ABUCU/DIANA/EDVAR/PRAXE



Changes: OBST

FOR-SBFZ

4-20

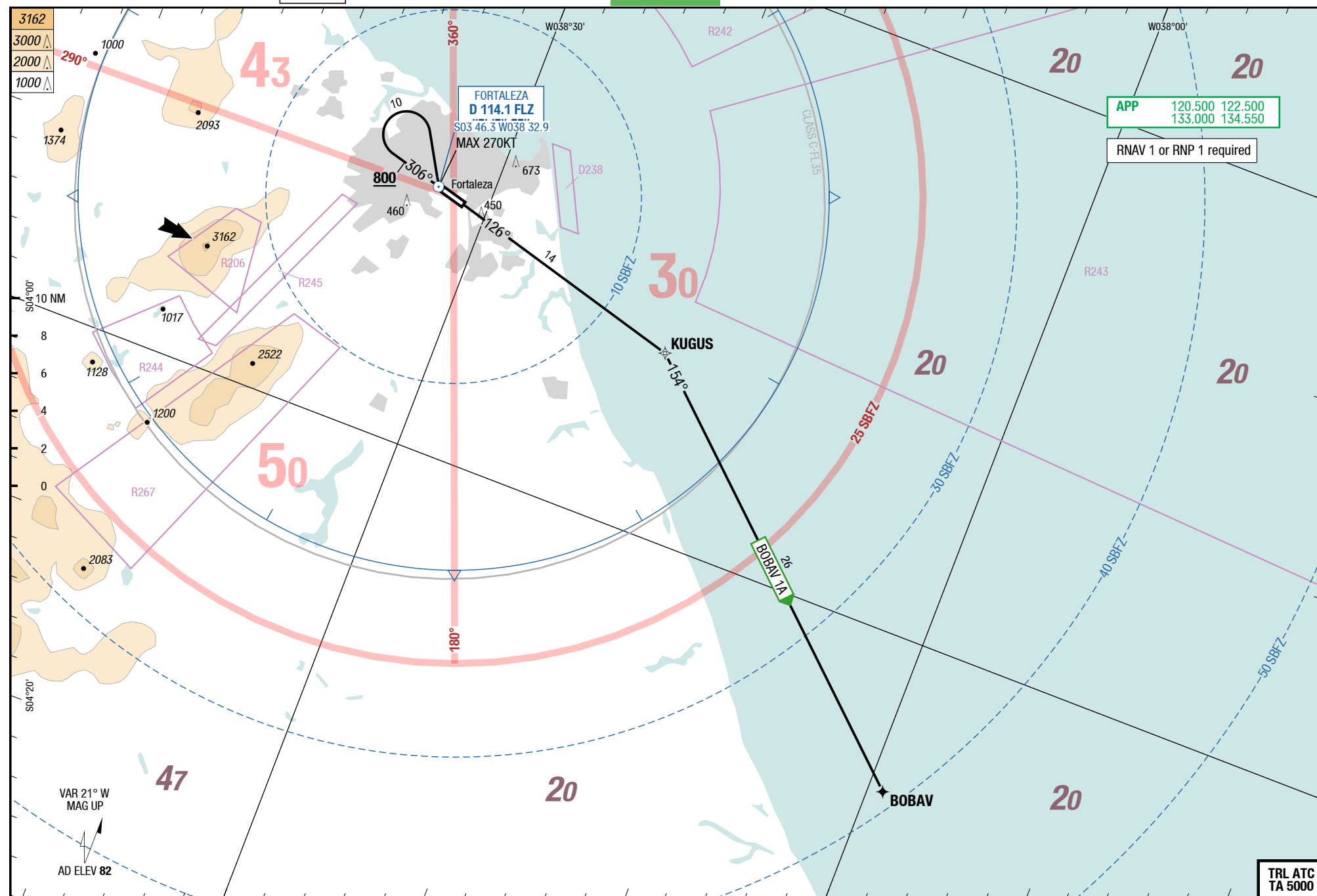
RNAV SID BOBAV 1A

SID

SID

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RNAV SID BOBAV 1A



Changes: OBST

TRL ATC
TA 5000

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RNAV SIDs IRURA / ISUPI

4-30

RNAV SIDs ESAVO 1A / SISAV 1A

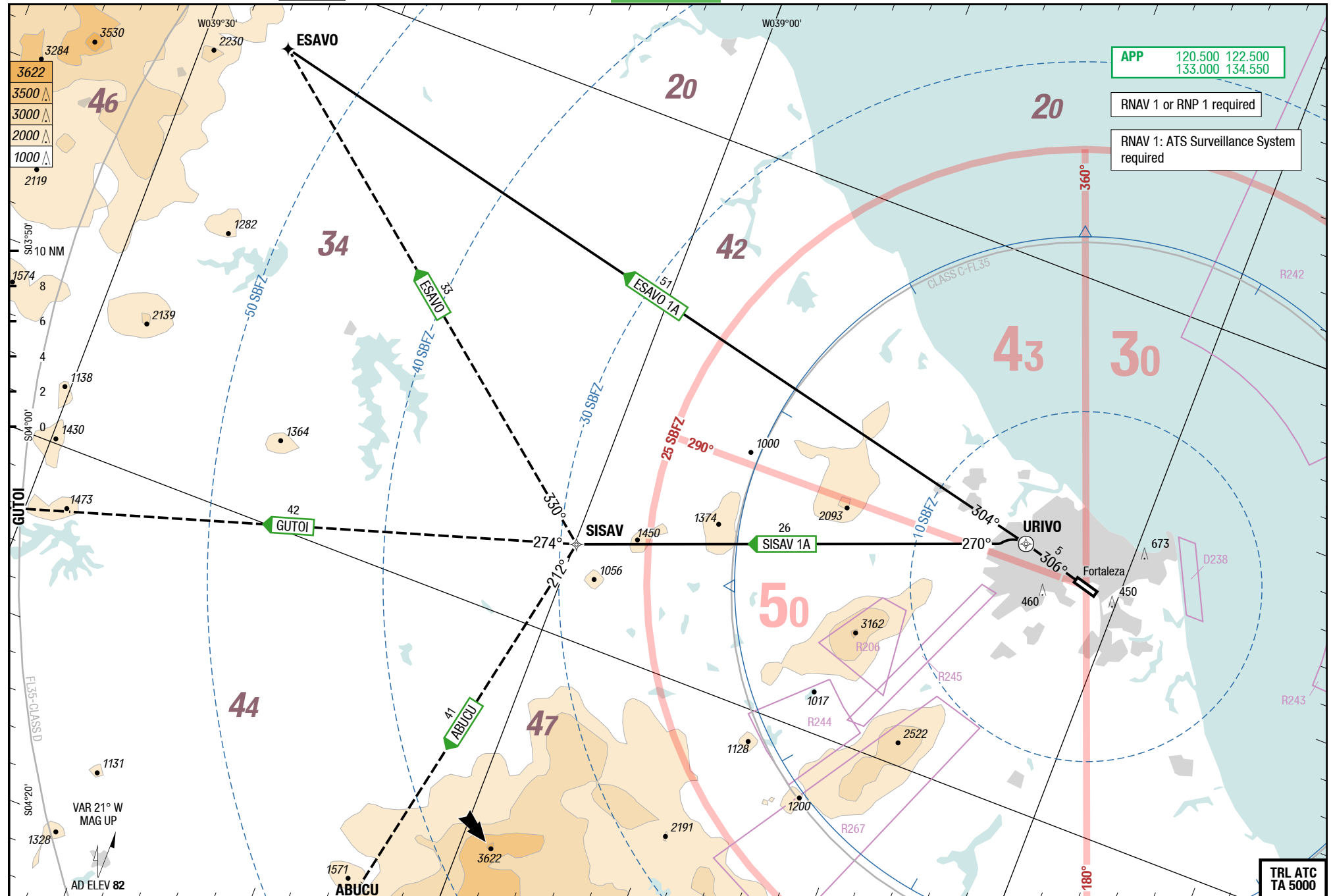
SID

SID

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RNAV SIDs IRURA / ISUPI

RNAV SIDs ESAVO 1A / SISAV 1A



Changes: OBST

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13-JUL-2017

FOR-SBFZ

4-40

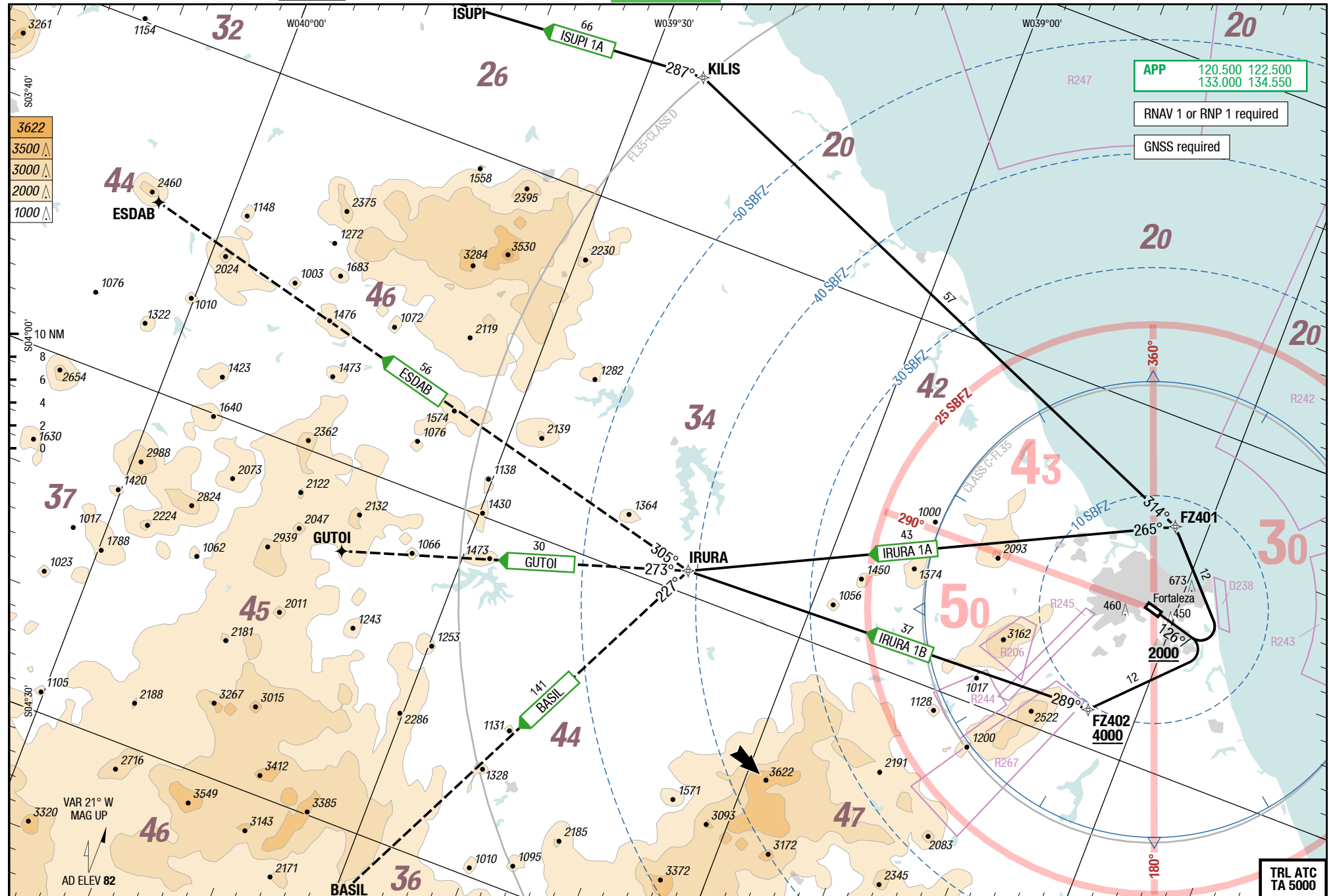
RNAV SIDs IRURA / ISUPI

SID

SID

Pinto Martins Intl Fortaleza Brazil

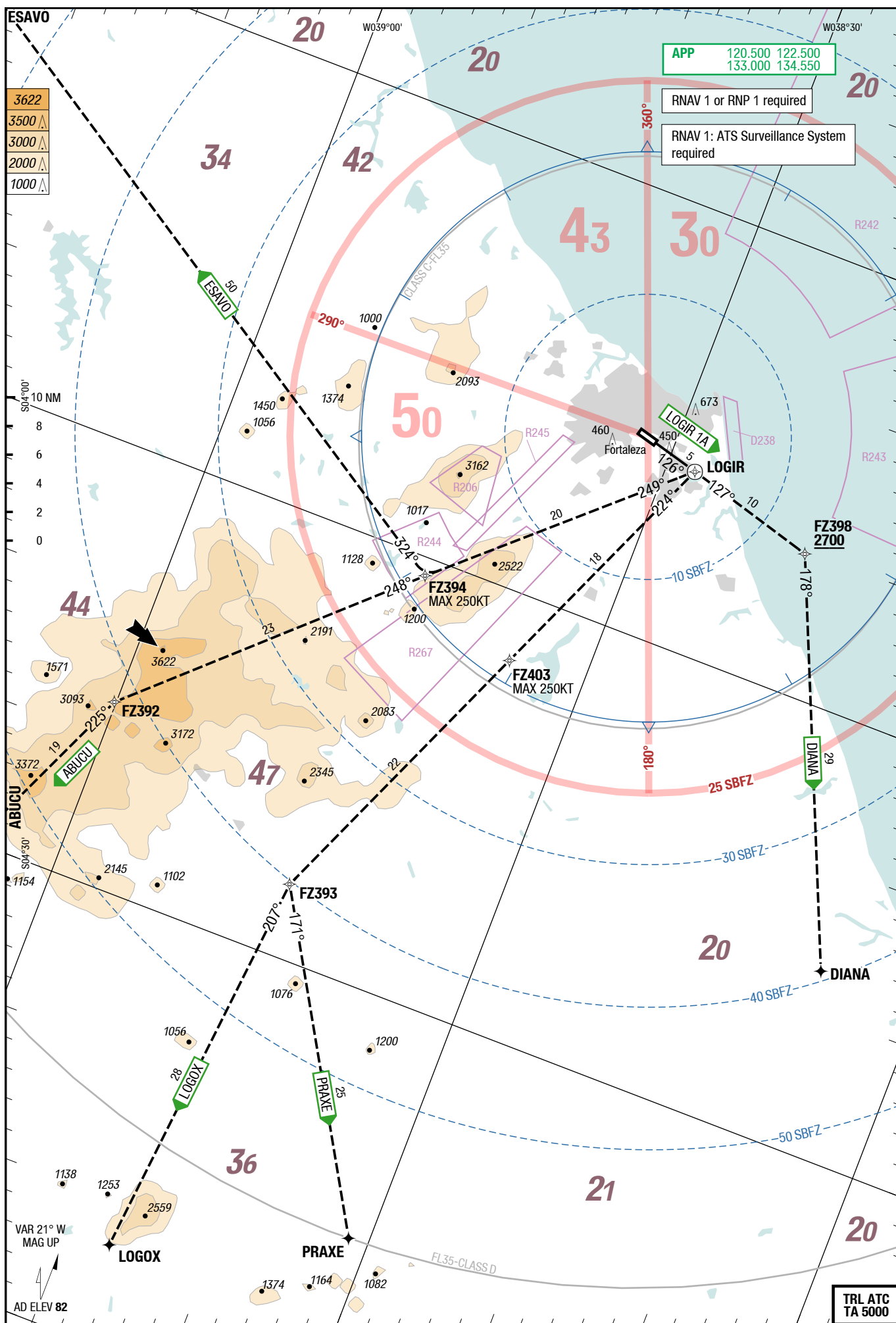
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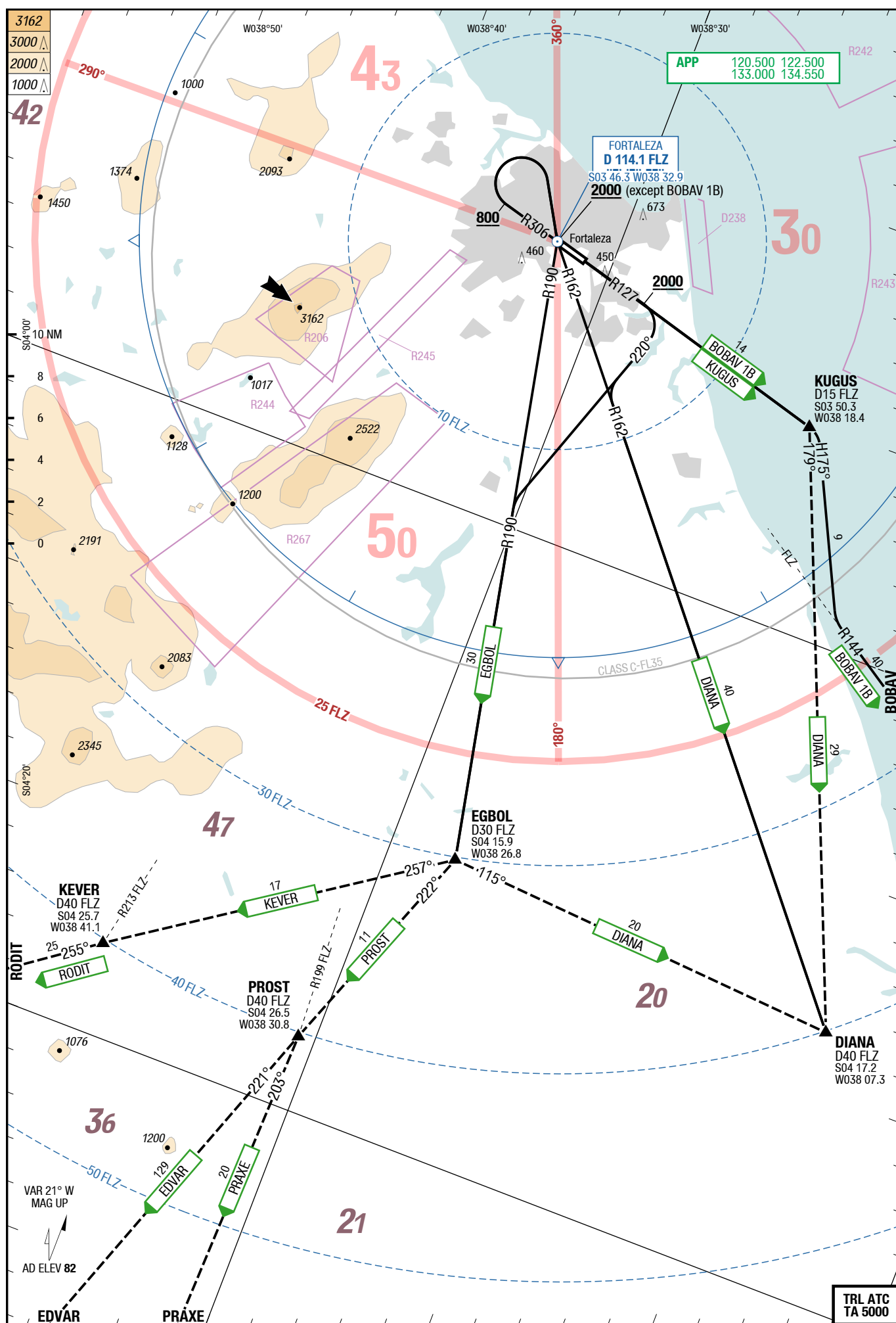


Changes: OBST

TRL ATC
TA 5000

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SID FLZ 1D

SID

SID

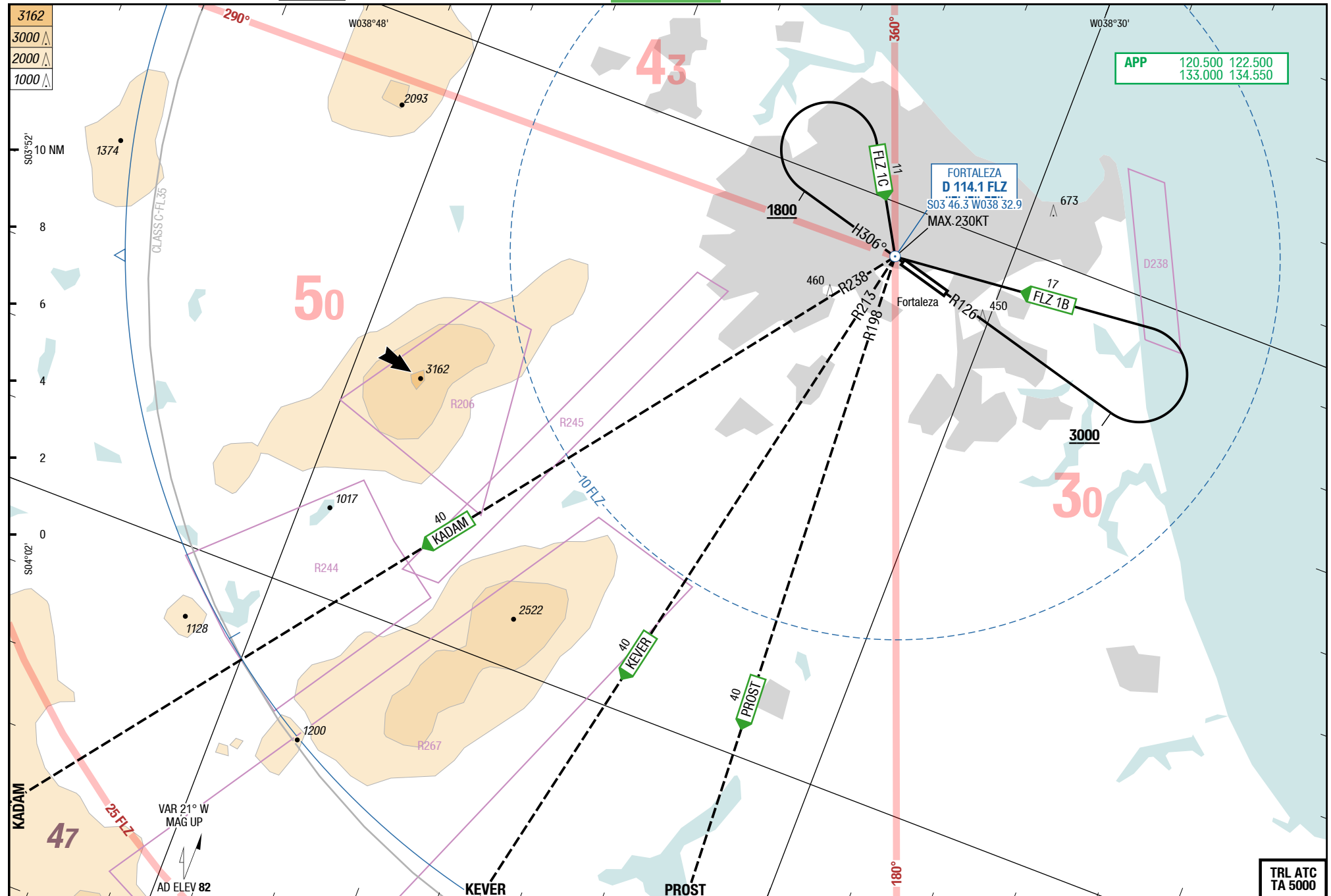
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SID FLZ 1D

SIDs FLZ 1B / 1C

4-70

SIDs FLZ 1B / 1C



Changes: OBST

TRL ATC
TA 5000

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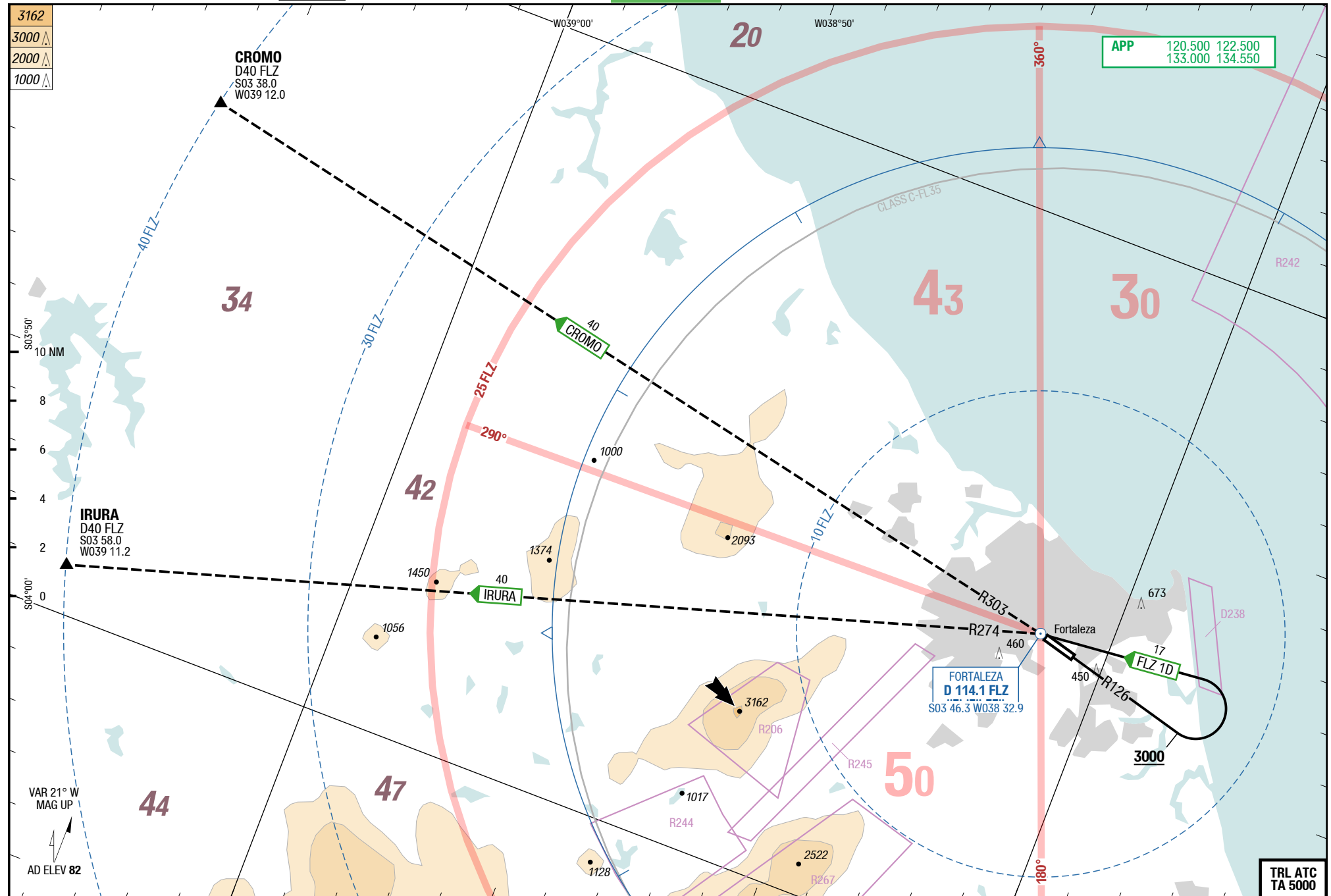
SID

SID

SID FLZ 1D

4-80

SID FLZ 1D



Changes: OBST

Effective 20-JUL-2017

13-JUL-2017

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NIL

SID ISTOM 1A

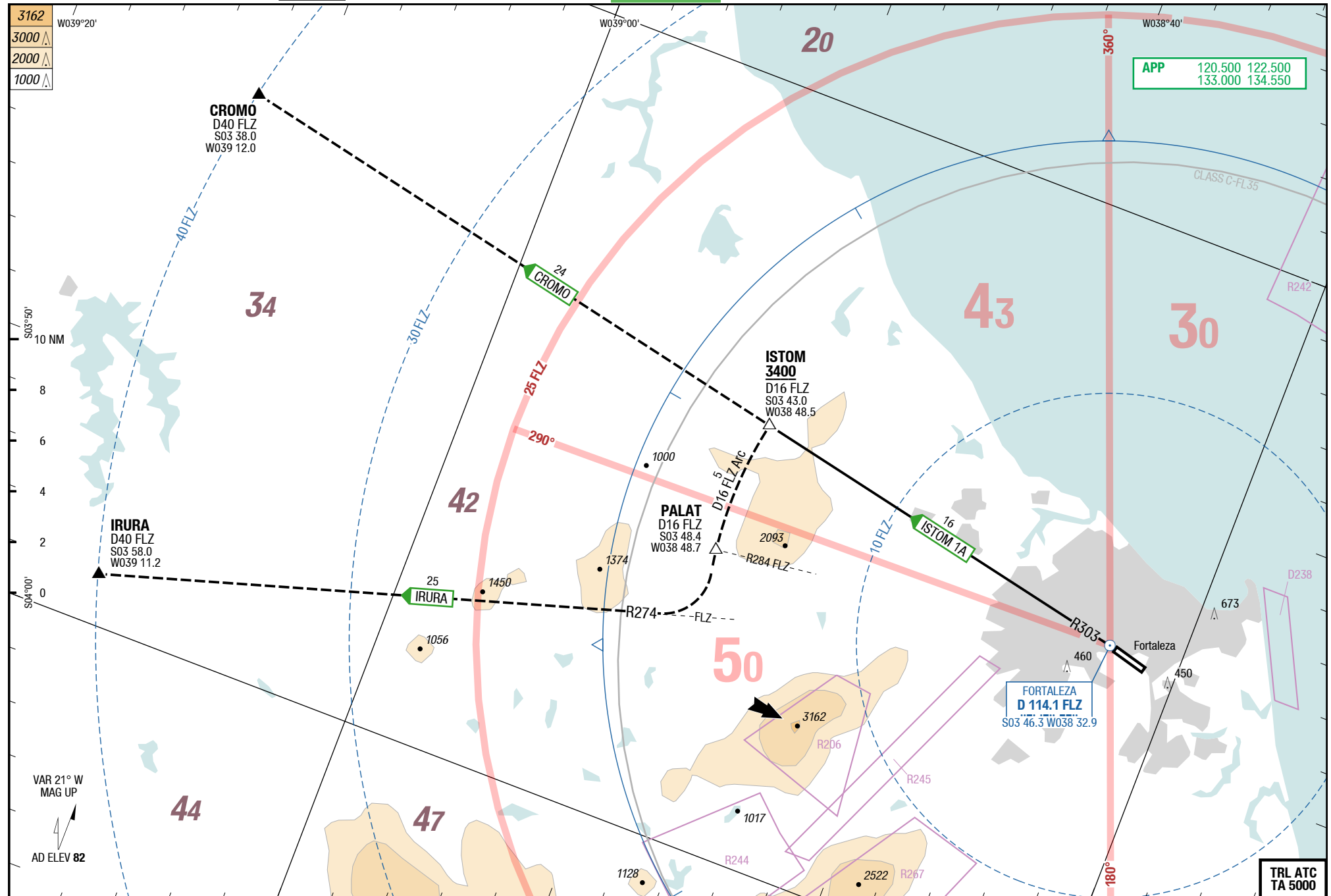
SID

SID

Pinto Martins Intl **Fortaleza** Brazil

NIL

SID ISTOM 1A



Changes: OBST

ABUCU 1B / DIANA 1A / EDVAR 1B / PRAXE 1B

RWY 31 (306°)

	GS	120	150	180	210	240	270
5.0%	ft/MIN	700	800	1000	1100	1300	1400

DESIGNATOR	ROUTING	ALTITUDES
	Runway 31	
ABUCU 1B 5.0% to 5000 120.500	<u>FZ386</u> - FZ392 - ABUCU	
DIANA 1A 5.0% to 5000 120.500	<u>FZ386</u> - FZ396 - DIANA	
EDVAR 1B 5.0% to 5000 120.500	<u>FZ386</u> - FZ393 - EDVAR	
PRAXE 1B 5.0% to 5000 120.500	<u>FZ386</u> - FZ396 - PROST - PRAXE	

BOBAV 1A

RWYs 13 (126°) / 31 (306°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 13	
BOBAV 1A 120.500	KUGUS - BOBAV	
	Runway 31	
BOBAV 1A 120.500	at MNM 800 RT direct FLZ (MAX 270KT) - KUGUS - BOBAV	

11-AUG-2016

FOR-SBFZ

5-30

RNAV SIDs ESAVO 1A / SISAV 1A**SIDPT****ESAVO 1A / SISAV 1A**

RWY 31 (306°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 31	
ESAVO 1A 120.500	URIVO - ESAVO	
SISAV 1A 120.500	URIVO - SISAV	
	TRANSITION	
	ABUCU SISAV - ABUCU	
	ESAVO SISAV - ESAVO	
	GUTOI SISAV - GUTOI	

11-AUG-2016

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5-40

RNAV SIDs IRURA / ISUPI

SIDPT

IRURA 1A / IRURA 1B / ISUPI 1A

RWY 13 (126°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 13	
IRURA 1A 120.500	at MNM 2000 LT direct FZ401 - IRURA	
	TRANSITION	
	BASIL IRURA - BASIL	
	ESDAB IRURA - ESDAB	
	GUTOI IRURA - GUTOI	
IRURA 1B 120.500	at MNM 2000 RT direct FZ402 - IRURA	FZ402 MNM 4000
	TRANSITION	
	BASIL IRURA - BASIL	
	ESDAB IRURA - ESDAB	
	GUTOI IRURA - GUTOI	
ISUPI 1A 120.500	at MNM 2000 LT direct FZ401 - KILIS - ISUPI	

LOGIR 1A

RWY 13 (126°)

	GS	120	150	180	210	240	270
5.2%	ft/MIN	700	800	1000	1200	1300	1500

DESIGNATOR	ROUTING	ALTITUDES
	Runway 13	
LOGIR 1A 5.2% to 4000 (Transitions ABUCU and ESAVO) 120.500 ①	126° to LOGIR	
	TRANSITION	
	ABUCU LOGIR - FZ394 (MAX 250KT) - FZ392 - ABUCU	
	DIANA LOGIR - FZ398 - DIANA	FZ398 MNM 2700
	ESAVO LOGIR - FZ394 (MAX 250KT) - ESAVO	
	LOGOX LOGIR - FZ403 (MAX 250KT) - FZ393 - LOGOX	
	PRAXE LOGIR - FZ403 (MAX 250KT) - FZ393 - PRAXE	

① Climb gradient 5.2% above 2700ft due to R206 and R267

BOBAV 1B / DIANA / EGBOL / KUGUS

RWY 13 (126°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 13	
BOBAV 1B 120.500	intercept R127 FLZ - at KUGUS RT HDG 175° - intercept R144 FLZ to BOBAV	
DIANA 120.500	at MNM 2000 RT intercept R162 FLZ - DIANA	
EGBOL 120.500	at MNM 2000 RT 220° intercept R190 FLZ - EGBOL	
	TRANSITION	
	DIANA EGBOL - DIANA	
	EDVAR EGBOL - PROST - EDVAR	
	KEVER EGBOL - KEVER	
	PRAXE EGBOL - PROST - PRAXE	
	PROST EGBOL - PROST	
	RODIT EGBOL - KEVER - RODIT	
KUGUS 120.500	intercept R127 FLZ - KUGUS	
	TRANSITION	
	DIANA KUGUS - DIANA	

BOBAV 1B / DIANA / EGBOL / KUGUS

RWY 31 (306°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 31	
BOBAV 1B 120.500	at MNM 800 RT direct FLZ - R127 FLZ - at KUGUS RT HDG 175° - intercept R144 FLZ to BOBAV	
DIANA 120.500	at MNM 800 RT direct FLZ - R162 FLZ to DIANA	FLZ MNM 2000
EGBOL 120.500	at MNM 800 RT direct FLZ - R190 FLZ to EGBOL	FLZ MNM 2000
	TRANSITION	
	DIANA EGBOL - DIANA	
	EDVAR EGBOL - PROST - EDVAR	
	KEVER EGBOL - KEVER	
	PRAXE EGBOL - PROST - PRAXE	
	PROST EGBOL - PROST	
	RODIT EGBOL - KEVER - RODIT	
KUGUS 120.500	at MNM 800 RT direct FLZ - R127 FLZ to KUGUS	FLZ MNM 2000
	TRANSITION	
	DIANA KUGUS - DIANA	

FORTALEZA 1B / FORTALEZA 1C

RWYs 13 (126°) / 31 (306°)

	GS	120	150	180	210	240	270
3.6%	ft/MIN	500	600	700	800	900	1000
5.7%	ft/MIN	700	900	1100	1300	1400	1600

DESIGNATOR	ROUTING	ALTITUDES
	Runway 13	
FORTALEZA 1B FLZ 1B 3.6% to 4000 (Transitions KEVER and PROST) 120.500 ①	at MNM 3000 LT direct FLZ (MAX 230KT)	
	TRANSITION	
	KADAM FLZ (MAX 230KT) - R238 FLZ to KADAM	
	KEVER FLZ (MAX 230KT) - R213 FLZ to KEVER	
	PROST FLZ (MAX 230KT) - R198 FLZ to PROST	
	Runway 31	
FORTALEZA 1C FLZ 1C 5.7% to 4000 (Transitions KADAM and KEVER) 120.500 ②	at MNM 1800 RT direct FLZ (MAX 230KT)	
	TRANSITION	
	KADAM FLZ (MAX 230KT) - R238 FLZ to KADAM	
	KEVER FLZ (MAX 230KT) - R213 FLZ to KEVER	
	PROST FLZ (MAX 230KT) - R198 FLZ to PROST	

① Climb gradient 3.6% due to R267

② Climb gradient 5.7% due to R206 and R267

11-AUG-2016

FOR-SBFZ

5-90

SID FLZ 1D**SIDPT****FORTALEZA 1D**

RWY 13 (126°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 13	
FORTALEZA 1D FLZ 1D 120.500	at MNM 3000 LT direct FLZ	
	TRANSITION	
	CROMO FLZ - R303 FLZ to CROMO	
	IRURA FLZ - R274 FLZ to IRURA	

ISTOM 1A

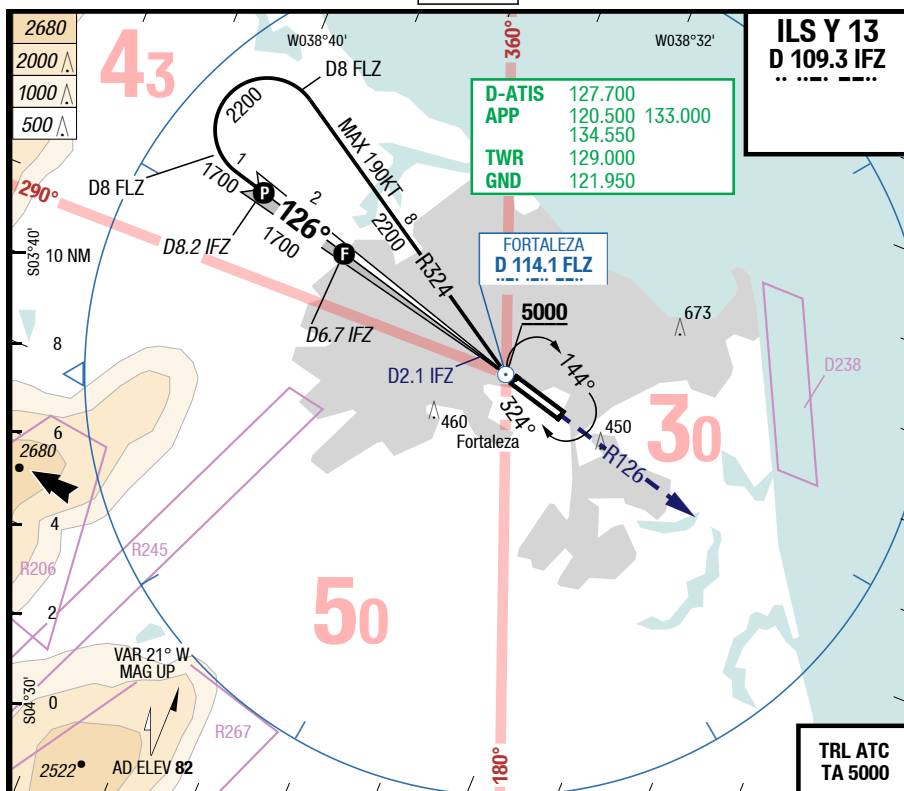
RWY 31 (306°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 31	
ISTOM 1A 120.500	intercept R303 FLZ to ISTOM	ISTOM MNM 3400
	TRANSITION	
	CROMO ISTOM - continue R303 FLZ to CROMO	ISTOM MNM 3400
	IRURA ISTOM - LT follow D16 FLZ Arc to PALAT - RT intercept R274 FLZ to IRURA	ISTOM MNM 3400

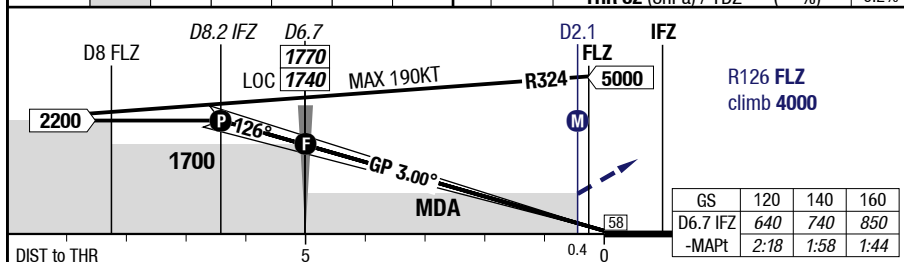
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7-10

ILS Y 13



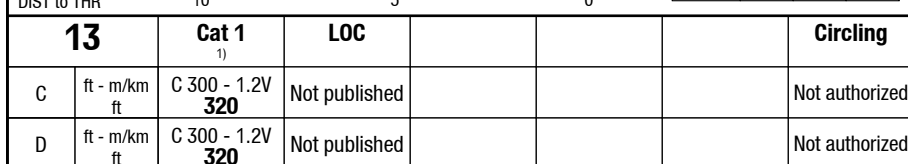
LOC 3.00° D IFZ	8.2	7	6	5	4	13	8.3.0°	60 HL
	2200	1840	1520	1200	880		2545 x 45	8.3.0°
							THR 82 (3hPa) / TDZ --- (---%)	-0.2%



13		Cat 1 1)	LOC			Circling
C	ft - m/km ft	C 300 - 1.2V 320	C 600 - 2.4V 610			C 900 - 4.4V 980
D	ft - m/km ft	C 300 - 1.2V 320	C 600 - 2.4V 610			C 900 - 4.8V 980

1) With EVS VIS 800m, wo EVS use STD

ILS X 13



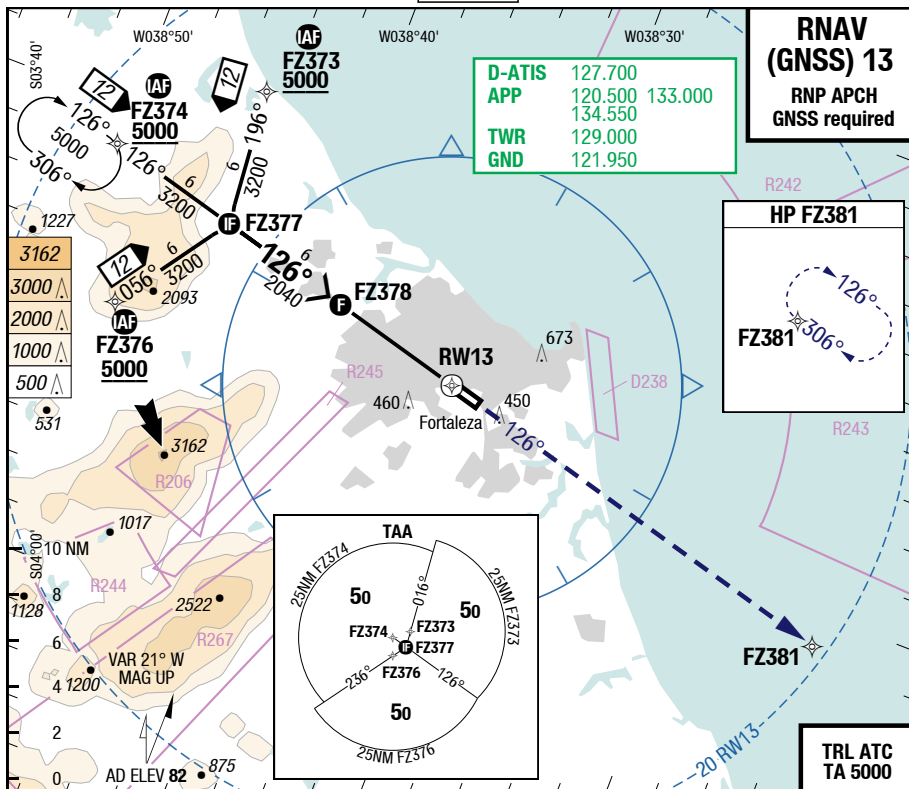
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Changes: APL, OBST

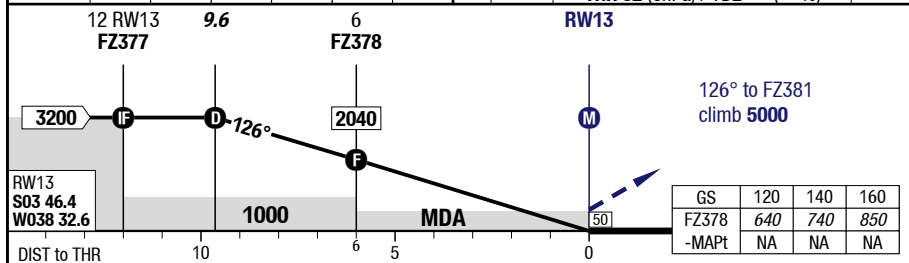
FOR-SBFZ

7-30

RNAV (GNSS) 13



3.00° RW13	9.6	9	7	5	3	2	13	83.0° 2545 x 45 60 HL 83.0°	THR 82 (3hPa) / TDZ --- (---%) -0.2%
	3200	3000	2370	1730	1090	770			



13	RNAV GNSS VNAV 1) 2)	RNAV GNSS LNAV			Circling
C	ft - m/km ft	C500 - 1.9V 490	C600 - 2.4V 610		Not authorized
D	ft - m/km ft	C500 - 1.9V 490	C600 - 2.4V 610		Not authorized

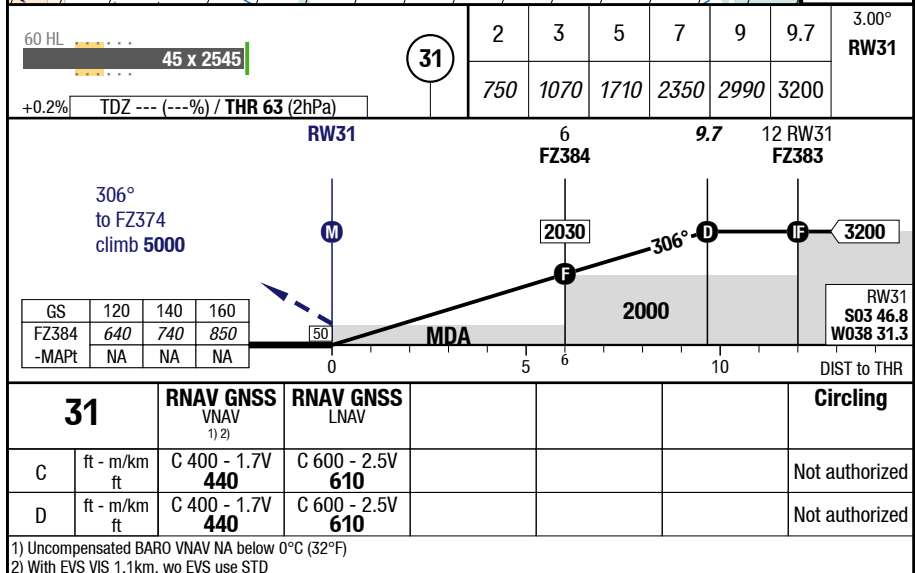
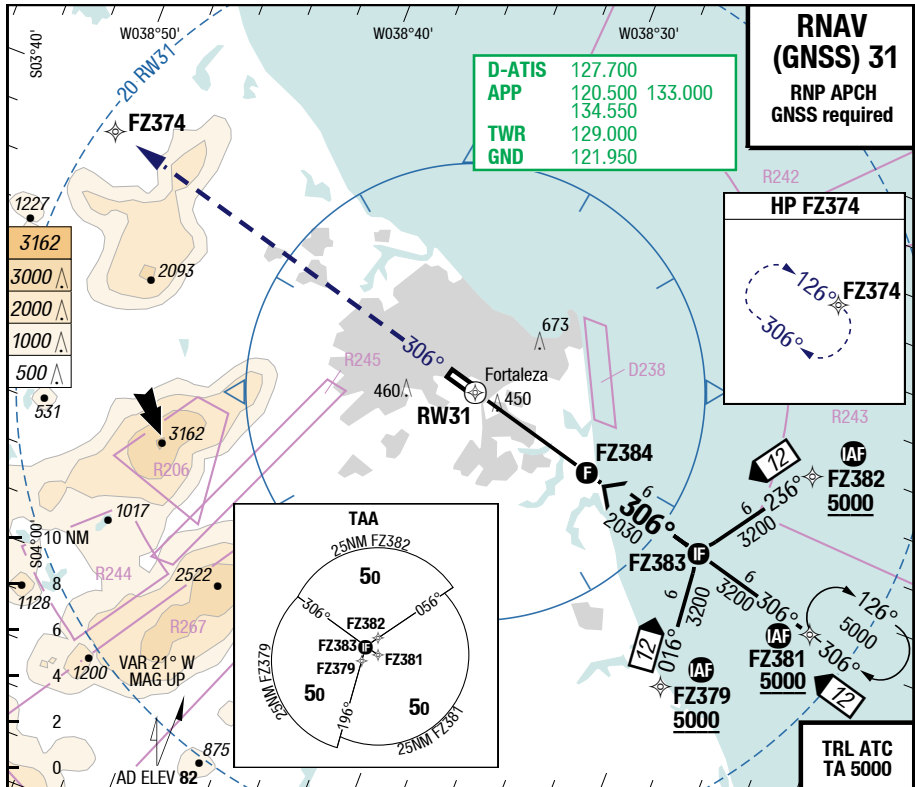
1) Uncompensated BARO VNAV NA below 0°C (32°F)

2) With EVS VIS 1.3km

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7-40

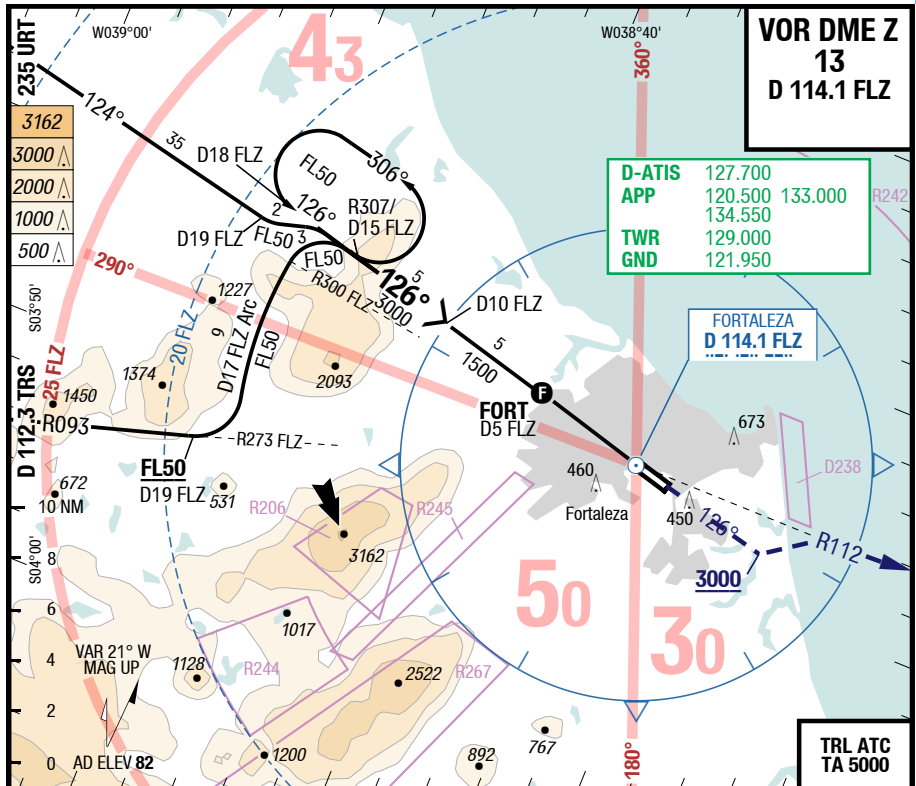
RNAV (GNSS) 31



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7-50

VOR DME Z 13

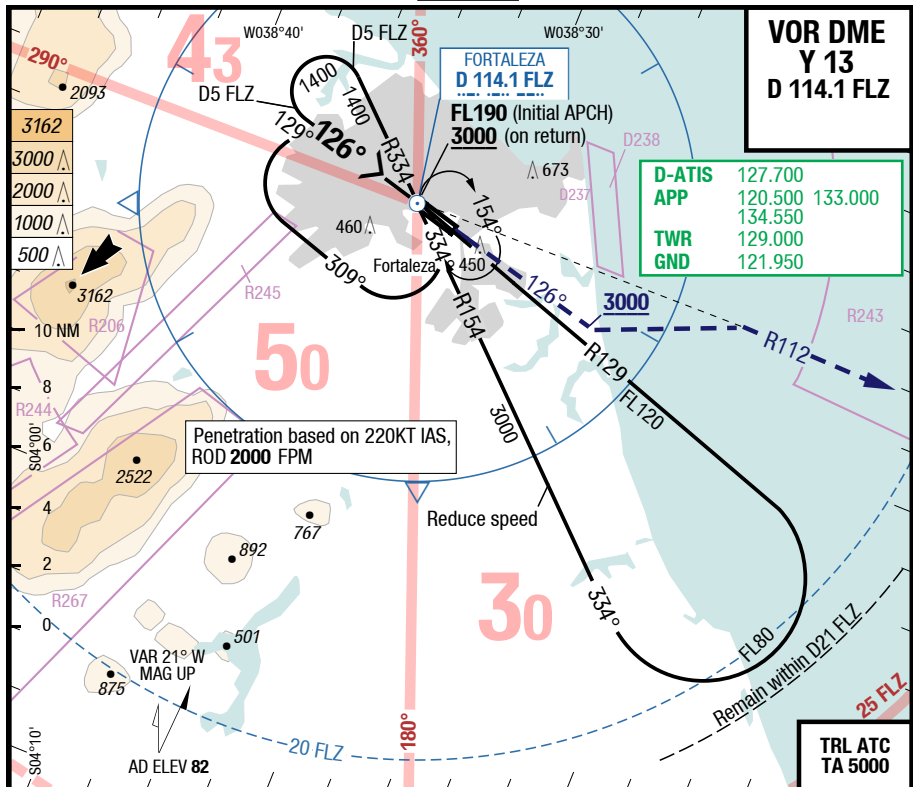


13		VOR DME					Circling
C	ft - m/km ft	C 600 - 2.4V 670					C 900 - 4.4V 980
D	ft - m/km ft	C 600 - 2.8V 670					C 900 - 4.8V 980

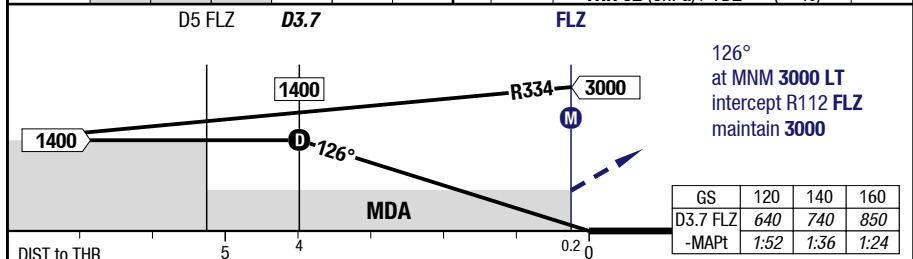
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7-60

VOR DME Y 13



3.00°				3.7	3	2	13	83.0° 2545 x 45 83.0° THR 82 (3hPa) / TDZ --- (---%) -0.2%
D FLZ				1400	1170	850		

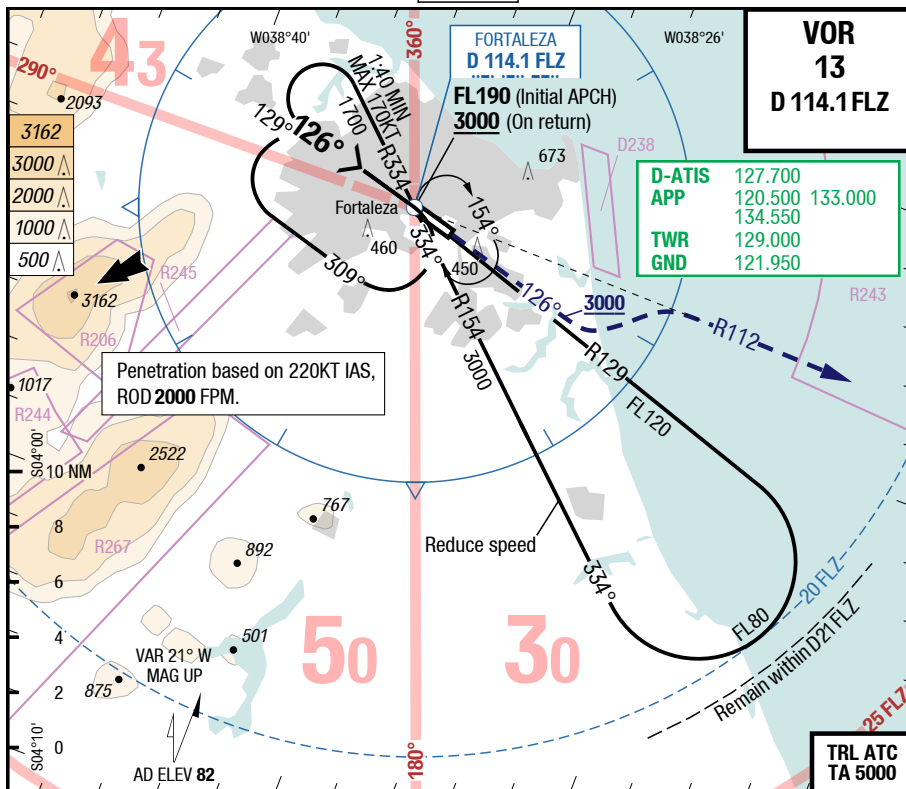


13	VOR DME					Circling
C	ft - m/km ft	C 600 - 2.4V 670				C 900 - 4.4V 980
D	ft - m/km ft	C 600 - 2.8V 670				C 900 - 4.8V 980

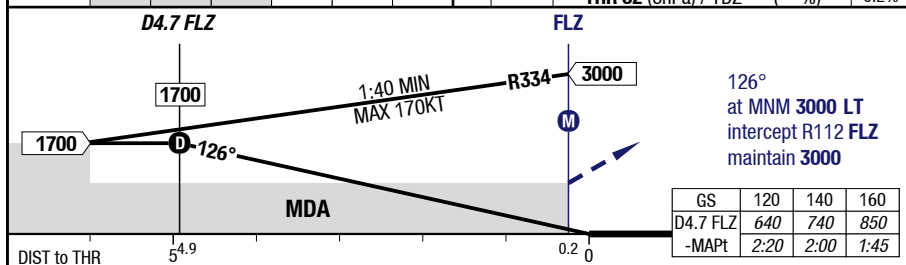
FOR-SBFZ

7-70

VOR 13



3.00° D FLZ				4.7	4	3	13	8.3.0° 2545 x 45 8.3.0°	60 HL	
				1700	1490	1170		THR 82 (3hPa) / TDZ --- (---%)	-0.2%	

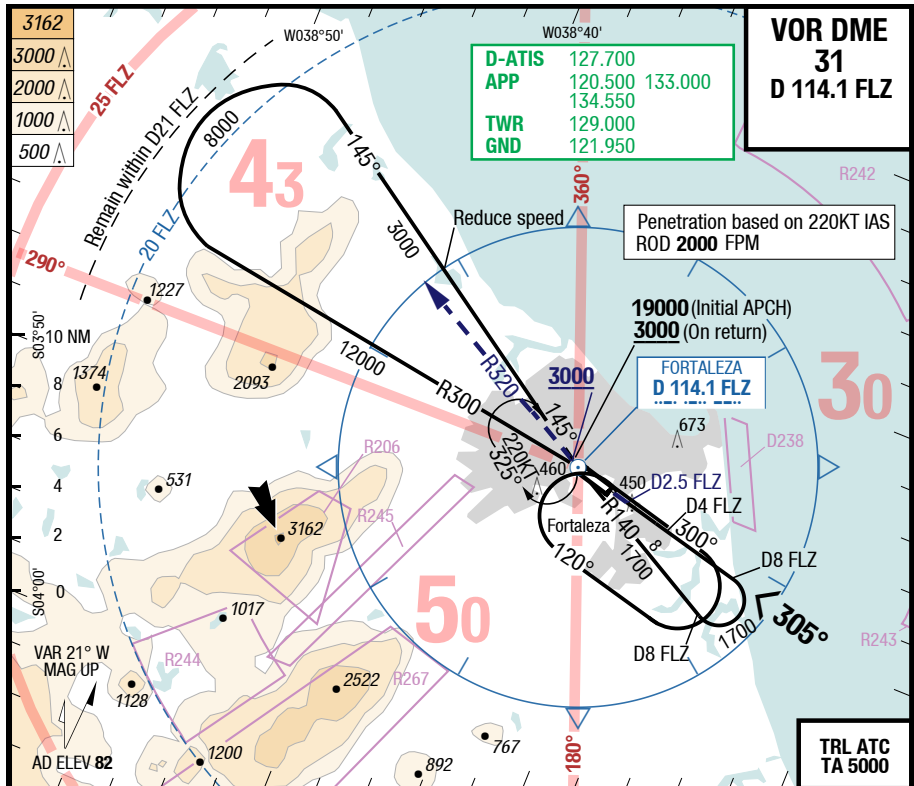


13		VOR				Circling
C	ft - m/km ft	C 1000 - 2.4V 990				C 1000 - 4.4V 990
D	ft - m/km ft	Not authorized				Not authorized

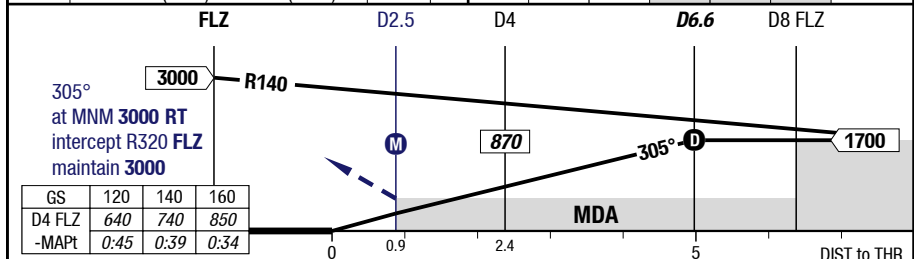
FOR-SBFZ

7-80

VOR DME 31



60 HL	45 x 2545	31	5	6	6.6					3.00°
+0.2% TDZ --- (---%) / THR 63 (2hPa)			1190	1510	1700					D FLZ 305°
										RWY 306°



	31	VOR DME	VOR	Circling
C	ft - m/km ft	C 600 - 2.4V 610	C 600 - 2.4V 660	C 900 - 4.4V 980
D	ft - m/km ft	C 600 - 2.4V 610	C 600 - 2.8V 660	C 900 - 4.8V 980

VOR 31

