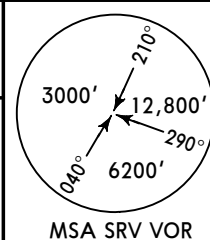
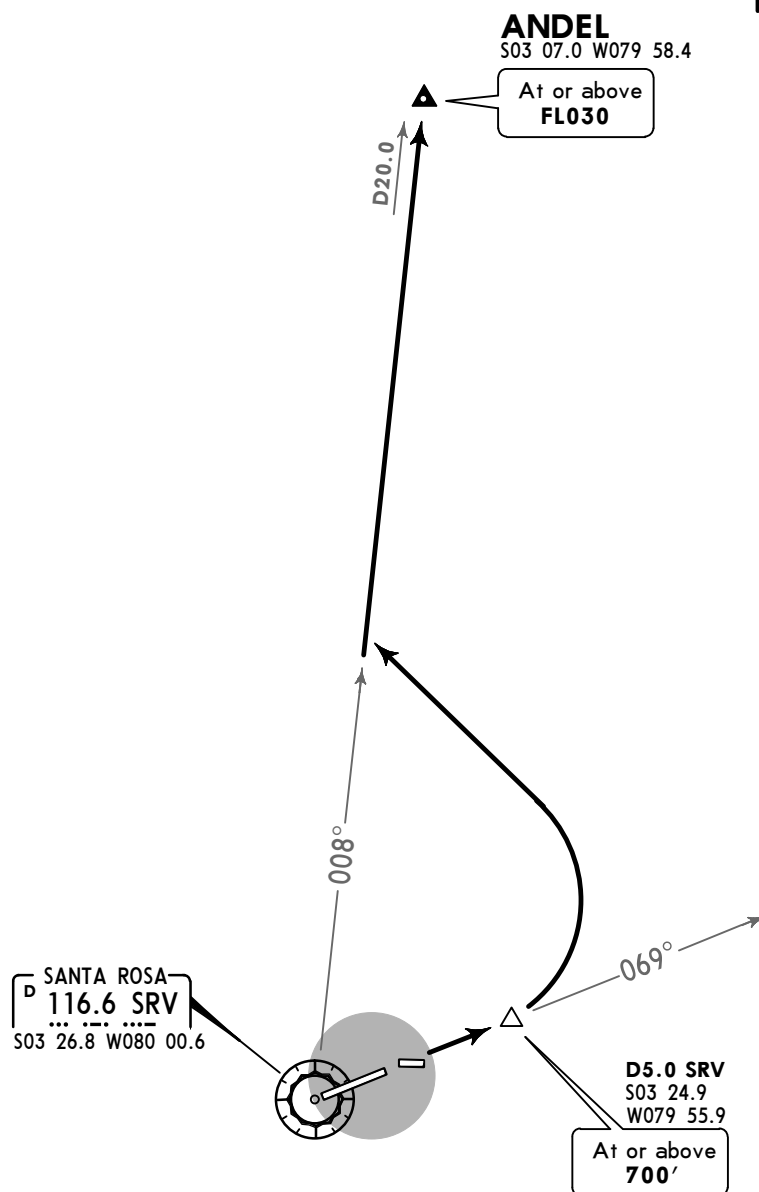


Apt Elev
21'

Trans level: By ATC Trans alt: 3000'



ANDEL 1 (ANDEL 1) DEPARTURE (RWY 07)



This SID requires take-off minimums:
Ceiling 100m, Visibility 1200m.

Altitude at distance from SRV DME.

DME	2	3	4	5
ALTITUDE	120	320	520	720

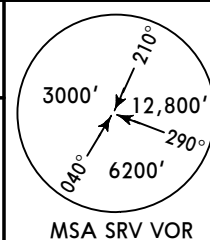


INITIAL CLIMB

After take-off, MAINTAIN runway heading to D5.0 SRV, cross at or above 700', turn LEFT to intercept SRV R-008 to ANDEL, cross at or above FL030, or proceed in accordance with ATC instructions.

Apt Elev
21'

Trans level: By ATC Trans alt: 3000'



ANDEL 1A (ANDEL 1A) DEPARTURE
[ANDE1A]
(RWY 25)

ANDEL
S03 07.0 W079 58.4

At or above
FL030

D20.0

008°

SANTA ROSA
P 116.6 SRV
S03 26.8 W080 00.6

D3.0 SRV
S03 28.0 W080 03.3

At or above
700'

249°

This SID requires take-off minimums:
Ceiling 100m, Visibility 1200m; and a minimum
climb gradient of 3.6% (219' per NM).

Gnd speed-KT	75	100	150	200	250	300
3.6% V/V (fpm)	273	365	547	729	911	1094

Altitude at distance from SRV DME.

DME	1	2	3
ALTITUDE	290	510	730



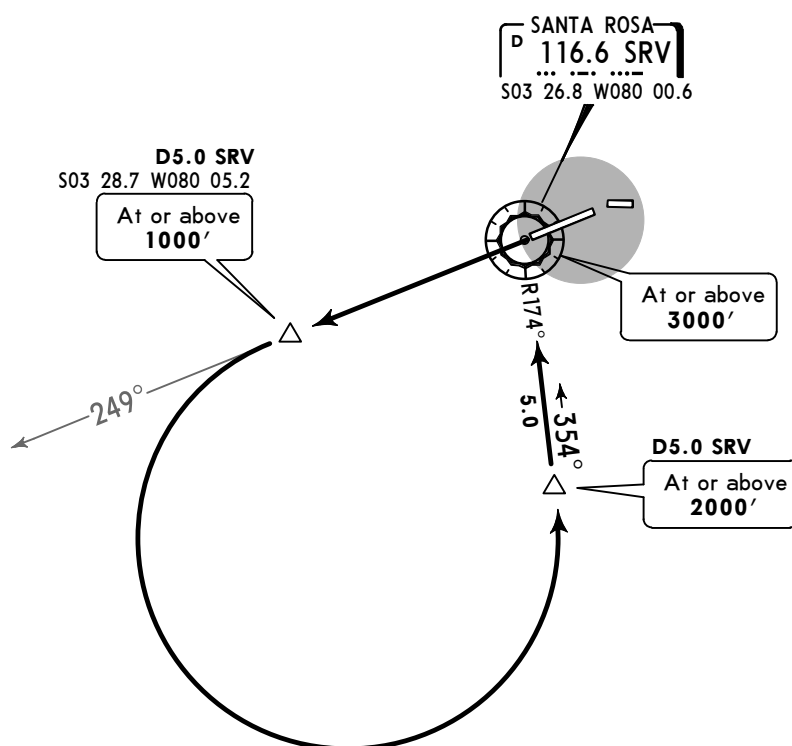
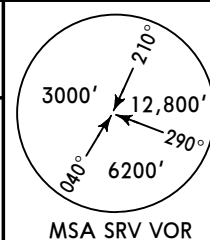
INITIAL CLIMB

After take-off, MAINTAIN runway heading until reaching 700' within D3.0 SRV, turn RIGHT to intercept
SRV R-008 to ANDEL, cross at or above FL030, or proceed in accordance with ATC instructions.

Apt Elev
21'

Trans level: By ATC Trans alt: 3000'

SANTA ROSA 1 VOR (SRV 1) DEPARTURE (RWY 25)



This SID requires take-off minimums:
Ceiling 100m, Visibility 1200m.
This SID requires a minimum climb gradient of
5.0% (304' per NM) to MEA for aircraft using
airways W-4 to LOJ NDB, W-3 to CUV VOR.

Gnd speed-KT	75	100	150	200	250	300
5.0% V/V (fpm)	380	506	760	1013	1266	1519

Altitude at distance from SRV DME.

DME	0	1	2	3	4	5
ALTITUDE	70	270	470	670	870	1070



INITIAL CLIMB

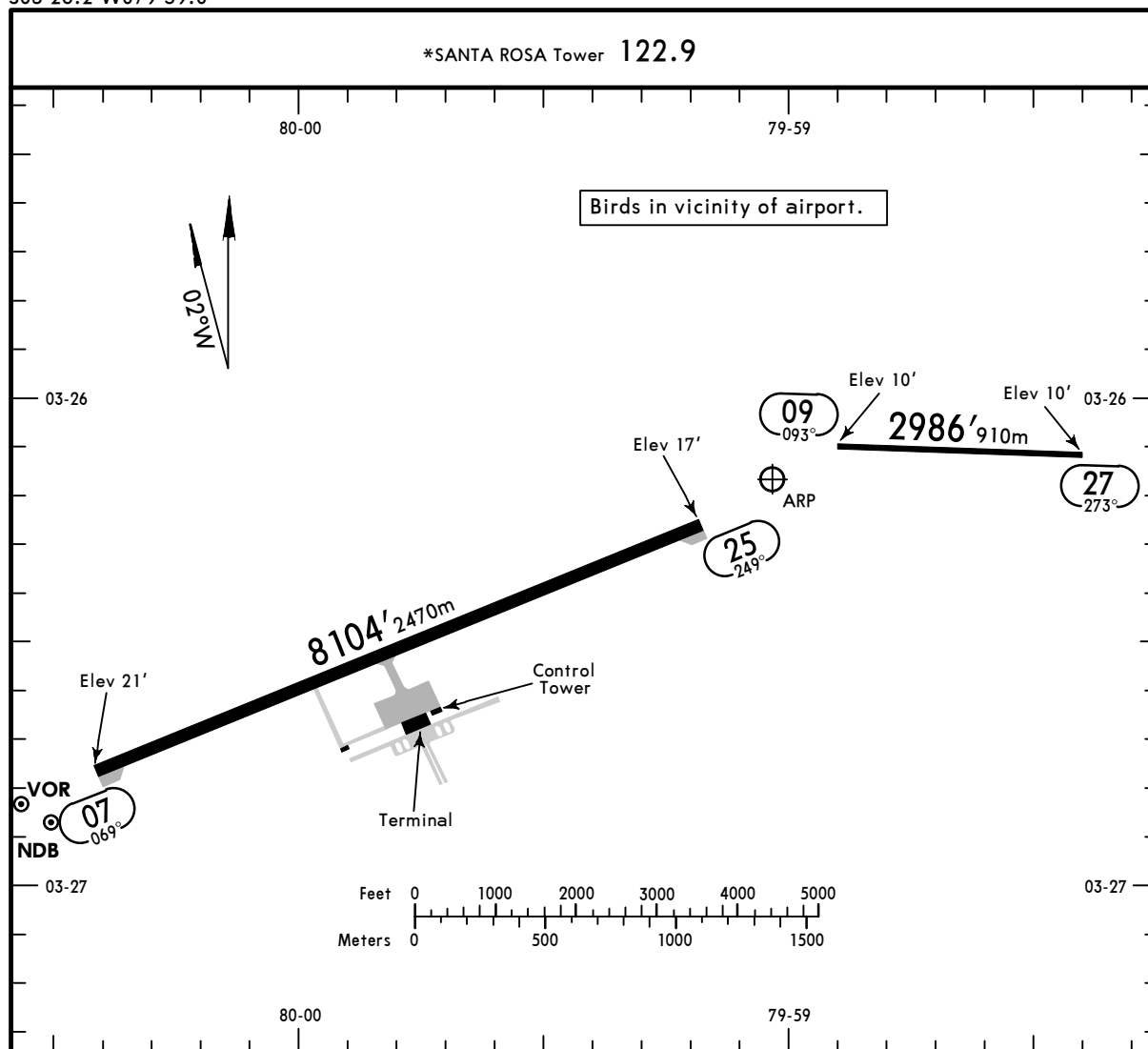
After take-off, MAINTAIN runway heading to D5.0 SRV, cross at or above 1000', turn LEFT course 354° (SRV R-174) to D5.0 SRV, cross at or above 2000', continue climbing to SRV VOR, cross at or above 3000', or proceed in accordance with ATC instructions.

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SERO
 Apt Elev **23'**
 S03 26.2 W079 59.0

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 SANTA ROSA REGL



ADDITIONAL RUNWAY INFORMATION

RWY		USABLE LENGTHS		TAKE-OFF	WIDTH
		Threshold	Landing Beyond Glide Slope		
07	HIRL PAPI-L (angle 3.0°, TCH 19')		7109' 2167m		148'
25	HIRL				45m
09					59'
27					18m

TAKE-OFF

	All Rwy's
1 & 2 Eng	150m -3.0 km
3 & 4 Eng	

SERO

CAT A, B & C

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11-1

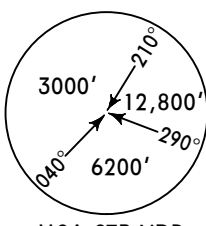
MISSED APCH
CLIMB GRADIENT
MIM 3.3%

SANTA ROSA, ECUADOR

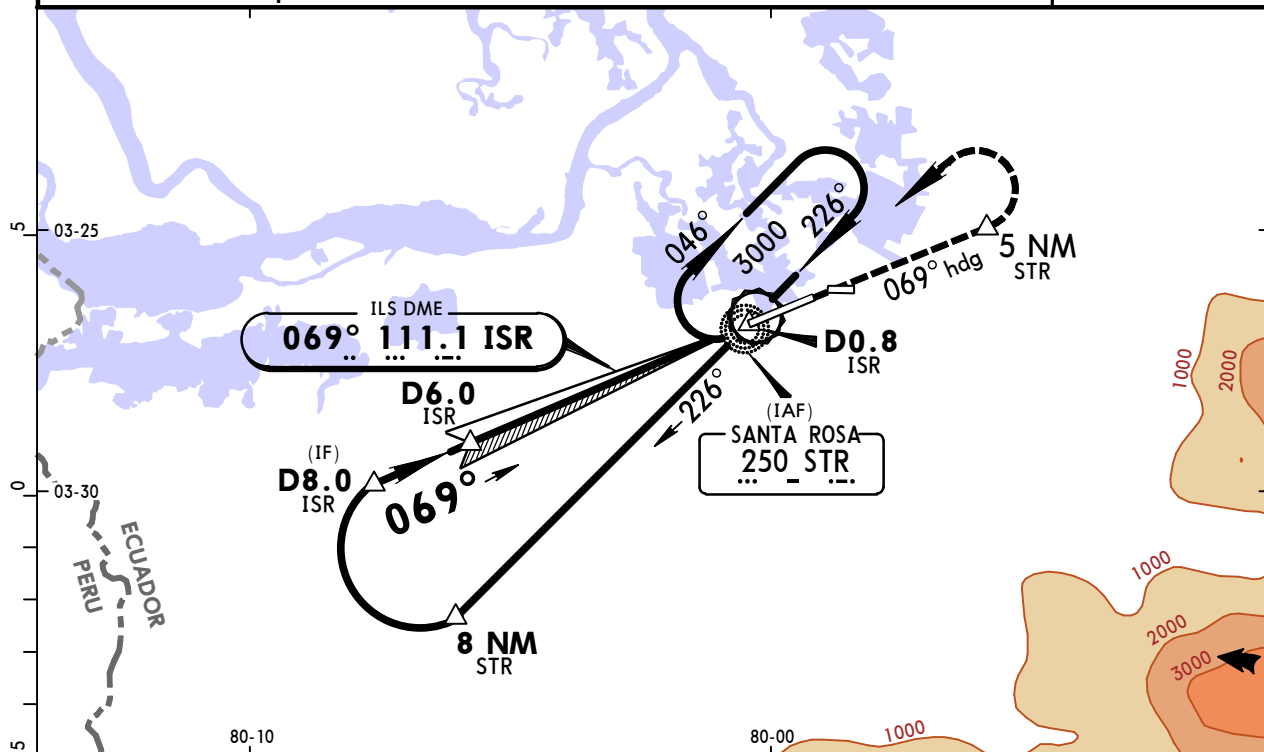
SANTA ROSA REGL

ILS or LOC Z Rwy 07

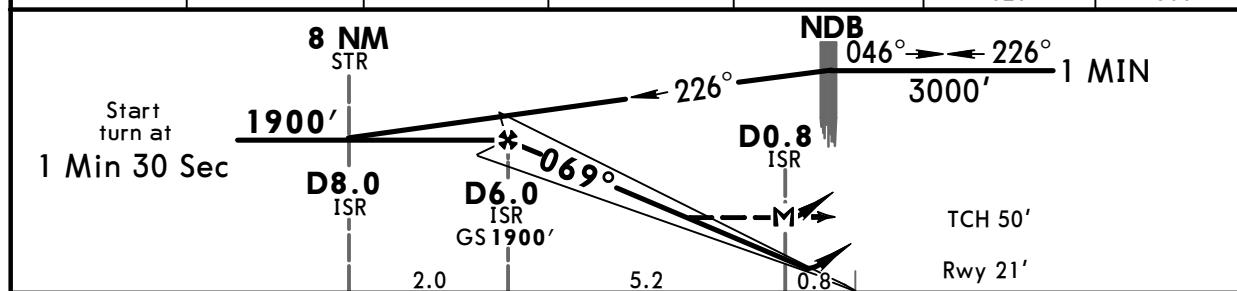
BRIEFING STRIP™

*SANTA ROSA Approach				*SANTA ROSA Tower	
119.1				122.9	
LOC ISR 111.1	Final Apch Crs 069°	GS D6.0 ISR 1900' (1879')	ILS DA(H) 250' (229')	Apt Elev 23' Rwy 21'	
MISSED APCH: Climb on heading 069° to 1100', within 5 NM STR NDB, turn LEFT to STR NDB climbing to 3000', join holding or as instructed by ATC.					
Alt Set: hPa Rwy Elev: 1 hPa Trans level: By ATC Trans alt: 3000'					
1. NDB and DME required. 2. Max IAS: 230 Kts.					

MSA STR NDB



ISR DME	6.0	5.0	4.0	3.0	2.0	1.0
ALTITUDE	1900'	1580'	1260'	940'	620'	300'



Gnd speed-Kts	70	90	100	120	140	160			1100'		069°	5 NM
GS	3.00°	372	478	531	637	743	849			on		STR
MAP at D0.8 ISR or												
D6.0 ISR to MAP	5.2	4:27	3:28	3:07	2:36	2:14	1:57					

STRAIGHT-IN LANDING RWY 07					CIRCLE-TO-LAND RWY25	
Missed Apch climb gradient mim 3.3%						
ILS			LOC (GS out)			
DA(H) 250' (229')			MDA(H) 340' (319')		Max Kts	MDA(H) _____
A	1200m		1400m		100	630' (607') -2800m
B					135	
C					180	
D	NA		NA		D	NA

SERO

CAT A, B & C

29 JUL 16

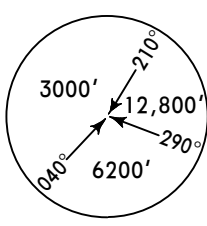
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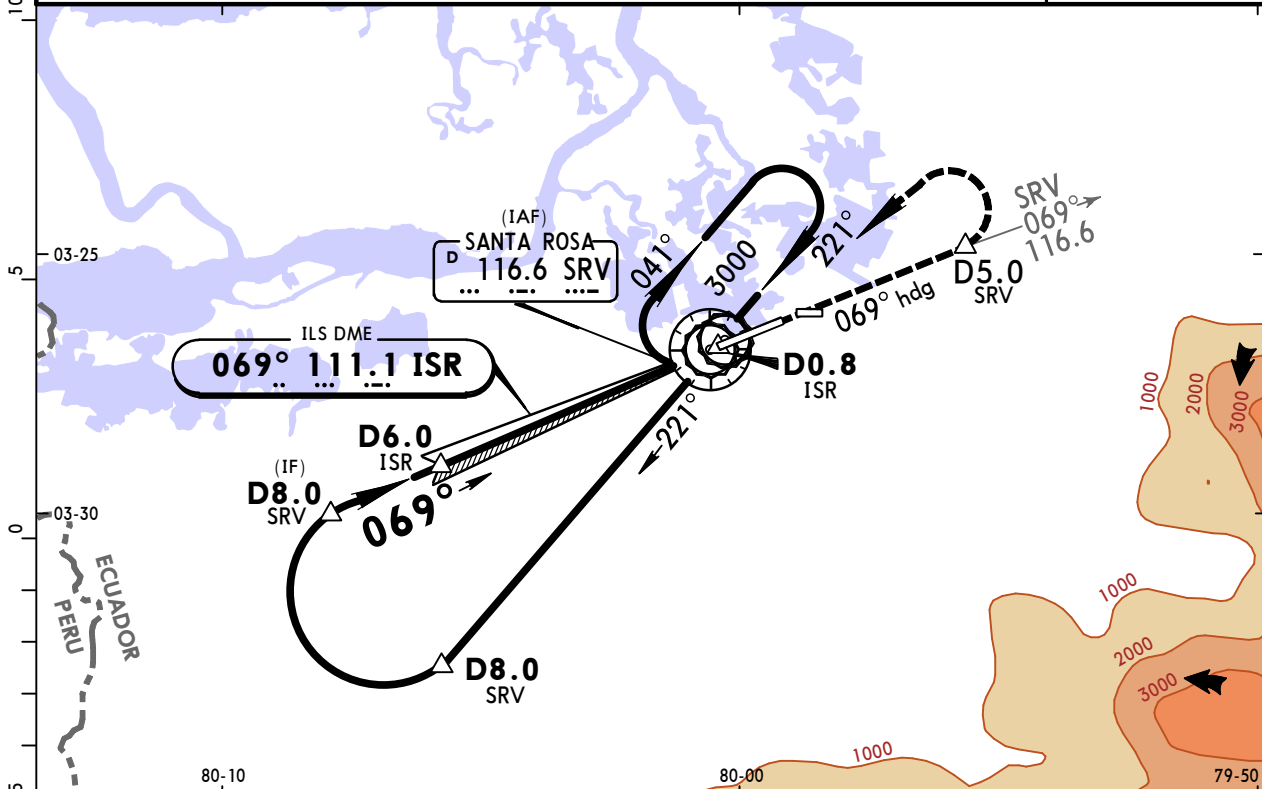
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MISSED APCH
CLIMB GRADIENT
MIM 3.3%

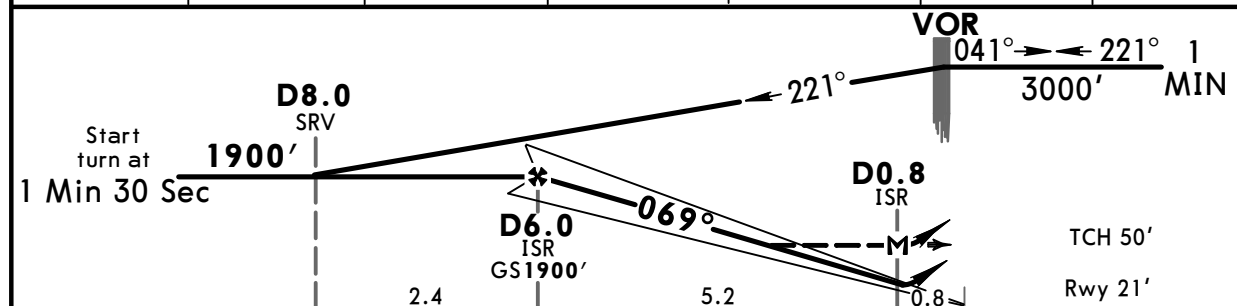
SANTA ROSA, ECUADOR

ILS or LOC Y Rwy 07

*SANTA ROSA Approach				*SANTA ROSA Tower	
119.1				122.9	
LOC ISR 111.1	Final Apch Crs 069°	GS D6.0 ISR 1900' (1879')	ILS DA(H) 250' (229')	Apt Elev 23'	Rwy 21'
MISSED APCH: Climb on heading 069° (SRV VOR R-069) to 1100', within D5.0 SRV, turn LEFT to SRV VOR climbing to 3000', join holding or as instructed by ATC.					
Alt Set: hPa Rwy Elev: 1 hPa Trans level: By ATC Trans alt: 3000'					MSA SRV VOR
1. VOR and DME required. 2. Max IAS: 230 Kts.					



ISR DME	6.0	5.0	4.0	3.0	2.0	1.0
ALTITUDE	1900'	1580'	1260'	940'	620'	300'



Gnd speed-Kts	70	90	100	120	140	160				
GS	3.00°	372	478	531	637	743	849			
MAP at D0.8 ISR or D6.0 SRV to MAP	5.2	4:27	3:28	3:07	2:36	2:14	1:57			

STRAIGHT-IN LANDING RWY 07					CIRCLE-TO-LAND RWY25	
Missed Apch climb gradient mim 3.3%						
ILS			LOC (GS out)			
DA(H) 250' (229')			MDA(H) 340' (319')		Max Kts	MDA(H)
A	1200m		1400m		100	630' (607') -2800m
B					135	
C					180	
D	NA		NA		D	NA

CHANGES: Procedure.

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SERO
SANTA ROSA REGL

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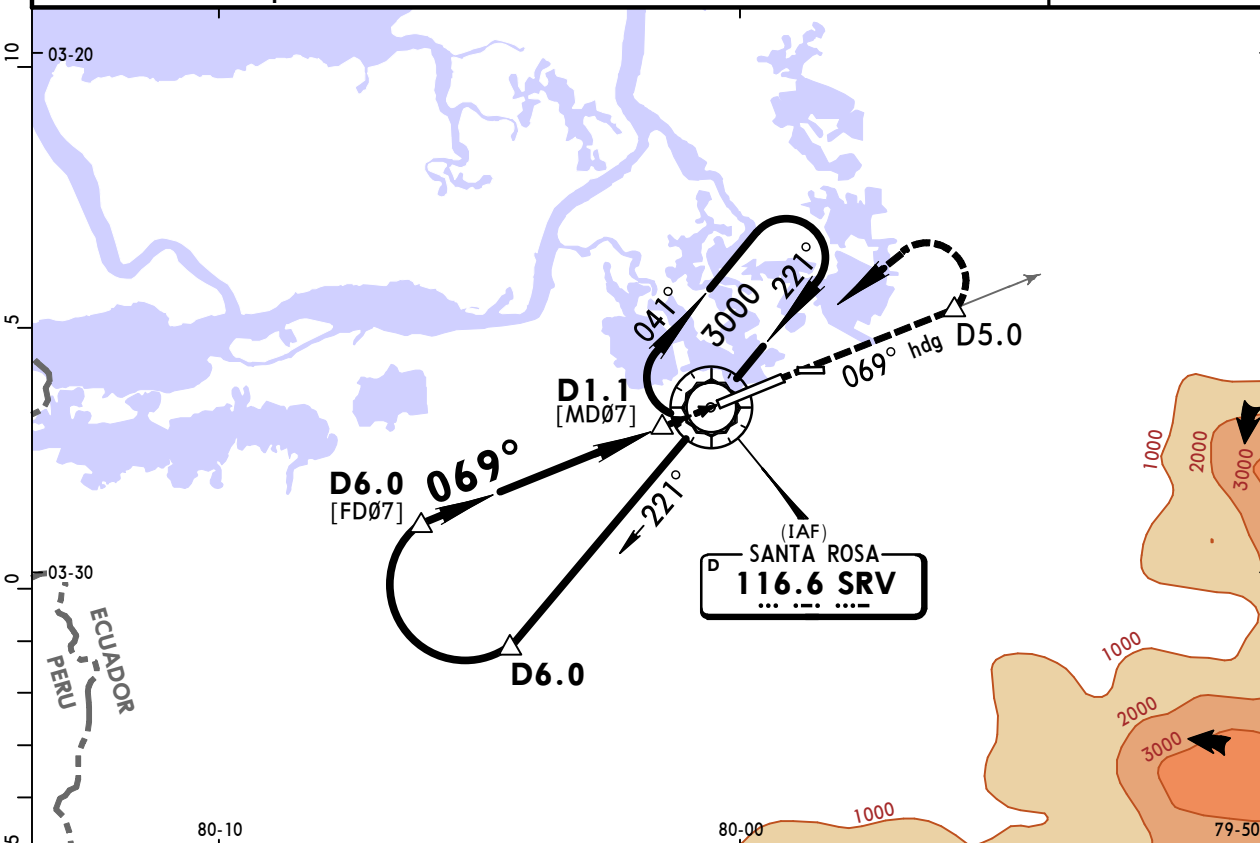
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MISSSED APCH
CLIMB GRADIENT
MIM 3.3%

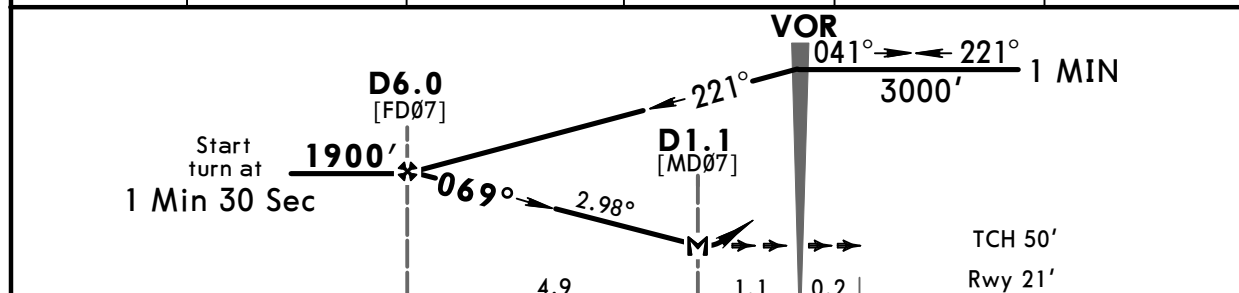
SANTA ROSA, ECUADOR
CAT A, B & C VOR Z Rwy 07

BRIEFING STRIP™

*SANTA ROSA Approach				*SANTA ROSA Tower	
119.1				122.9	
VOR SRV 116.6	Final Apch Crs 069°	Minimum Alt D6.0 1900' (1879')	VOR DME MDA(H) 340' (319')	Apt Elev 23' Rwy 21'	 MSA SRV VOR
MISSED APCH: Climb on heading 069° (SRV VOR R-069) to 1500', within D5.0, climbing LEFT turn to 3000' to SRV VOR holding or in accordance with ATC instructions.					
Alt Set: hPa Rwy Elev: 1 hPa Trans level: By ATC Trans alt: 3000' 1. VOR and DME required. 2. Max IAS: 230 Kts.					



SRV DME	6.0	5.0	4.0	3.0	2.0
ALTITUDE	1900'	1580'	1260'	940'	620'



Gnd speed-Kts	70	90	100	120	140	160
Descent angle	2.98°	369	474	527	633	738
MAP at D1.1						
D6.0 to MAP	4.9	4:12	3:16	2:56	2:27	2:06

STRAIGHT-IN LANDING RWY 07				CIRCLE-TO-LAND RWY25			
Missed Apch climb gradient mim 3.3%							
VOR DME		VOR (DME out)		Max Kts		MDA(H)	
MDA(H) 340' (319')		MDA(H) 430' (409')					
A				100			
B	1400m		2000m	135		630' (607') - 2800m	
C				180			
D	NA		NA	D		NA	

SERO

SANTA ROSA REGL

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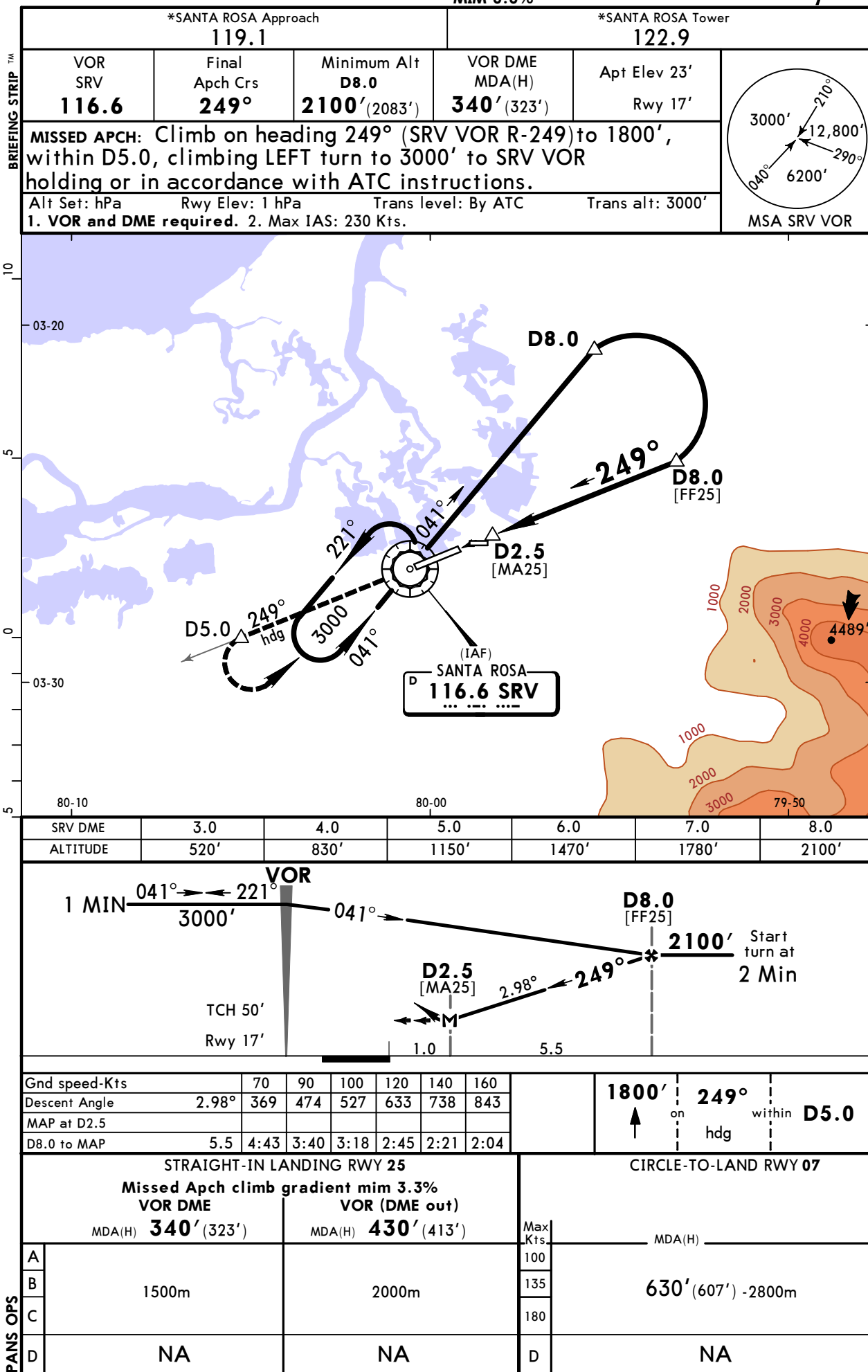
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(13-2)

MISSED APCH
CLIMB GRADIENT
MIM 3.3%

SANTA ROSA, ECUADOR

CAT A, B & C VOR Z Rwy 25



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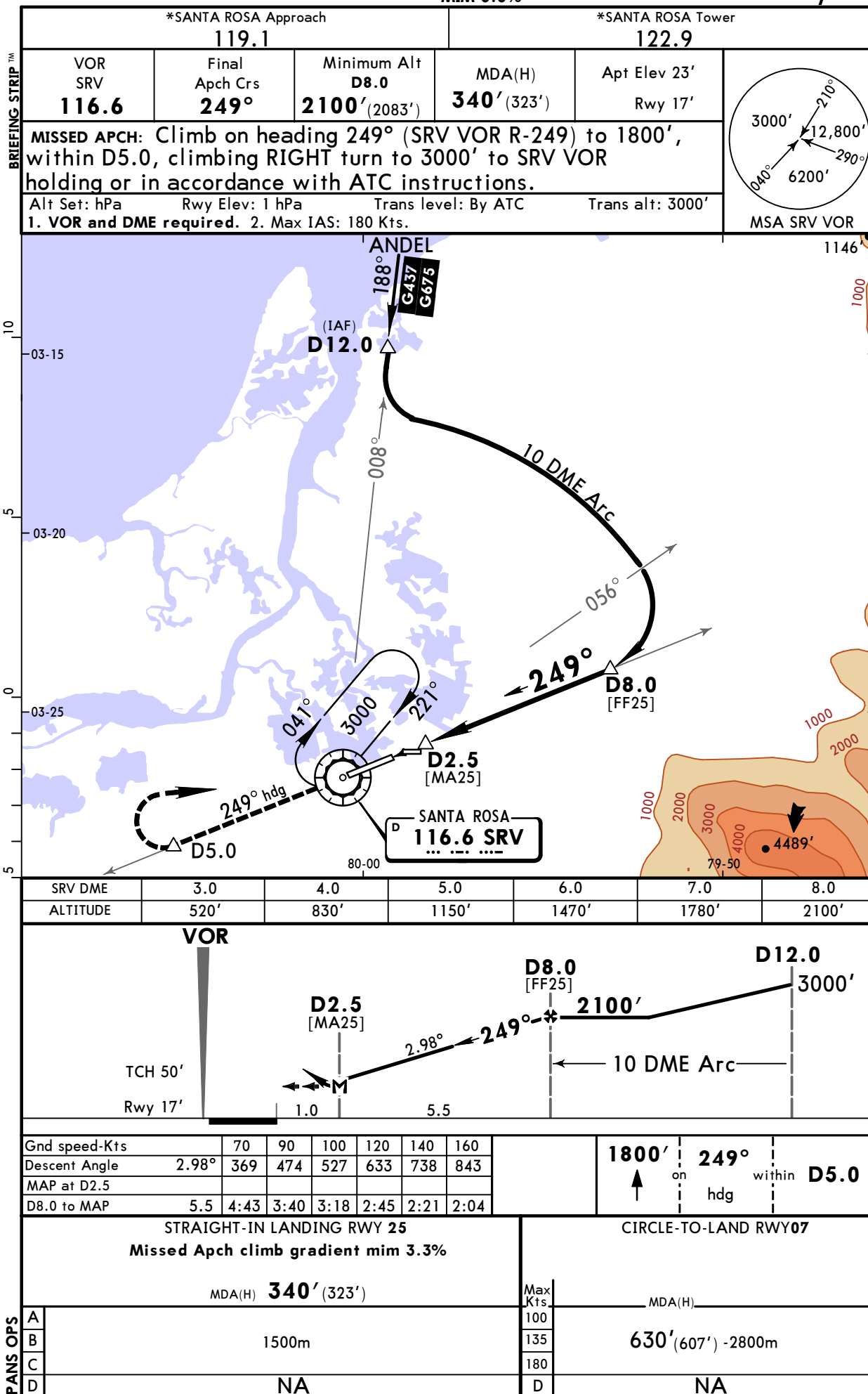
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13-3

MISSED APCH
CLIMB GRADIENT
MIM 3.3%

CAT A, B & C

VOR Y Rwy 25



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SANTA ROSA REGL

29 JUL 16

(16-1)



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MISSED APCH

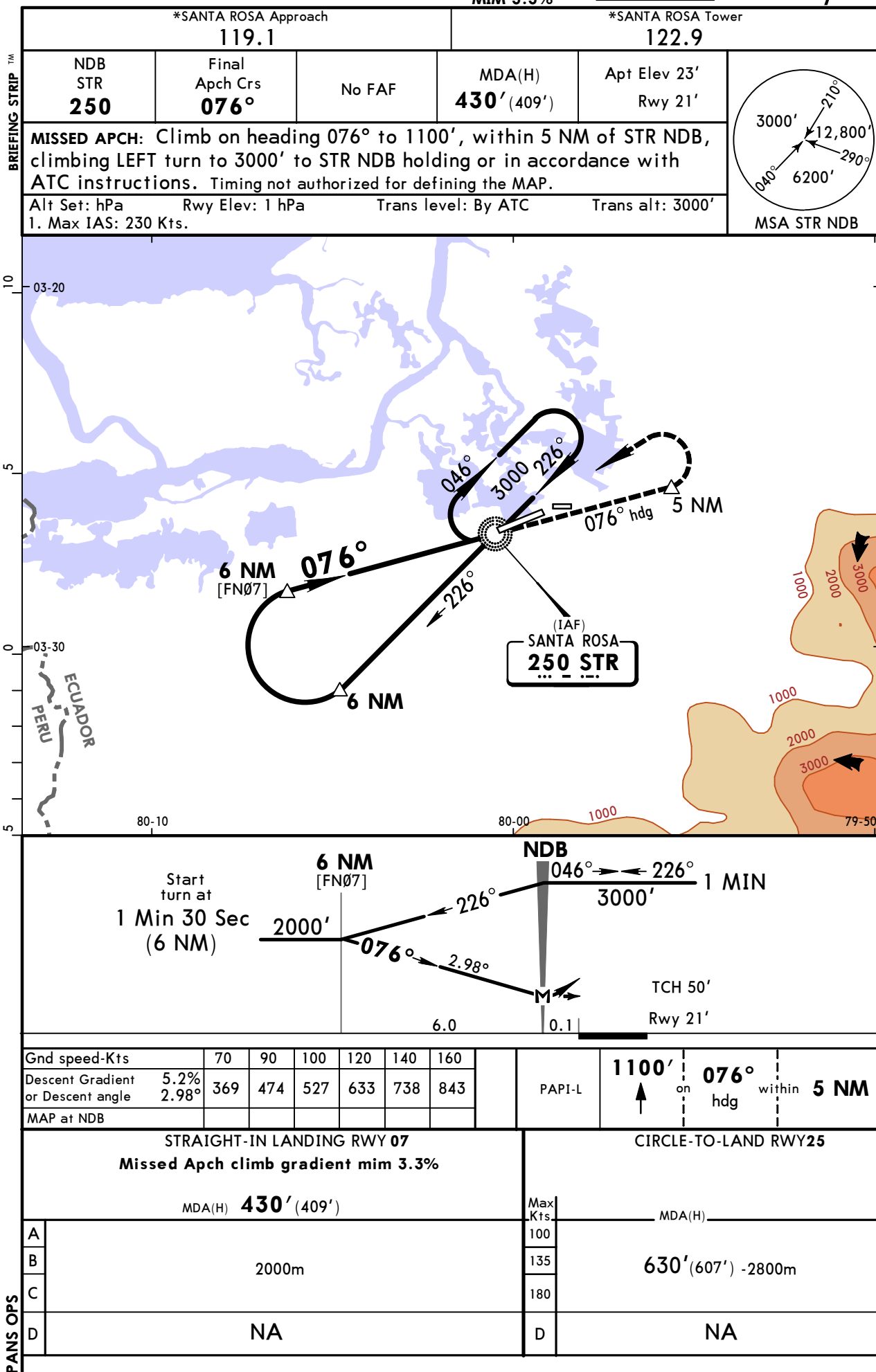
CLIMB GRADIENT

MIM 3.3%

SANTA ROSA, ECUADOR

CAT A, B & C

NDB Rwy 07



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