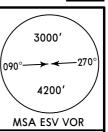
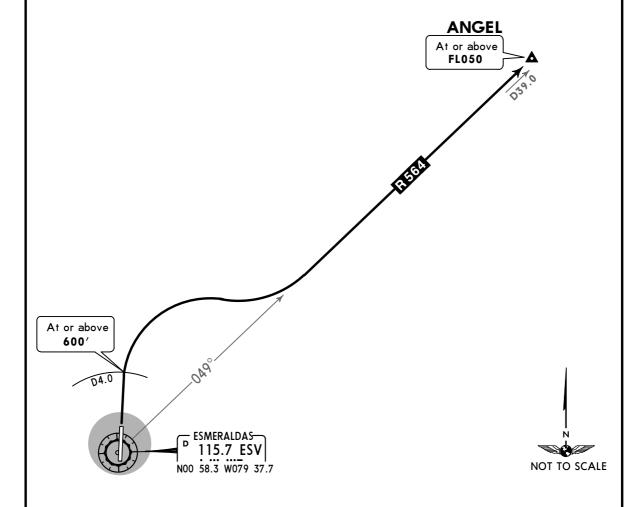
Apt Elev 32'

Trans level: By ATC Trans alt: 4000'

ANGEL 1 DEPARTURE (ANGEL 1) (RWY 01)





This SID requires take-off minimums: Ceiling 100m, Visibility 1300m; and a minimum climb gradient of 3.3% (201' per NM).

Gnd speed-KT	75	100	150	200	250	300
3.3% V/V (fpm)	251	334	501	668	835	1003

Altitude at distance from ESV VOR/DME.

ESV DME	2	3	4
ALTITUDE	240	440	600

INITIAL CLIMB

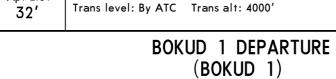
After take-off MAINTAIN runway heading to D4.0 ESV at or above 600', turn RIGHT to intercept ESV R-049 (course 049°), proceed direct to ANGEL at D39.0 ESV/airway R-564, cross at or above FL050 or proceed according to ATC instructions.

Apt Elev

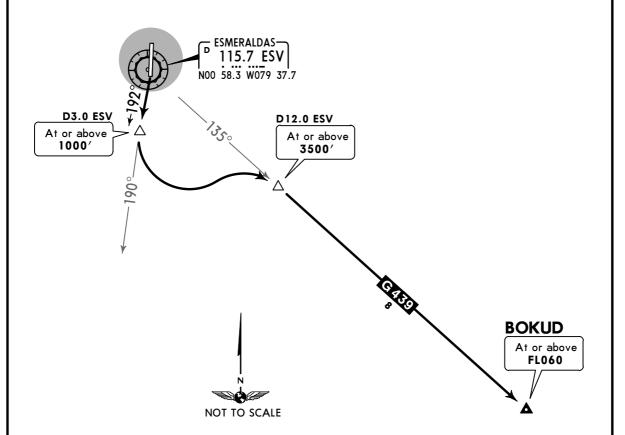
13 JAN 17

(RWY 19)

Eff 16 Jan



3000' 090° 4200' MSA ESV VOR



This SID requires take-off minimums: Ceiling 100m, Visibility 1300m; and a minimum climb gradient of 5.0% (304' per NM).

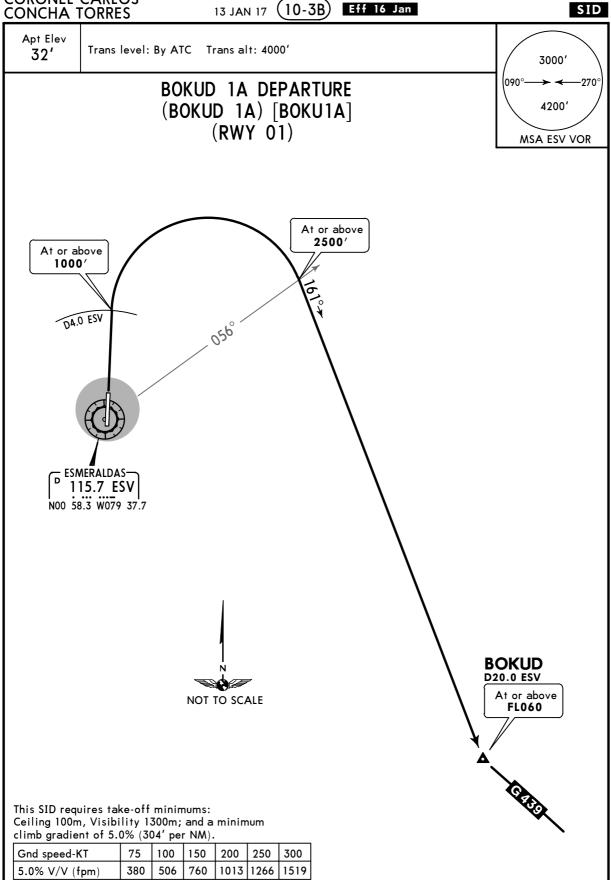
Gnd speed-KT	75	100	150	200	250	300
5.0% V/V (fpm)	380	506	760	1013	1266	1519

Altitude at distance from ESV VOR/DME.

_				
ES	SV DME	1	2	3
Α	LTITUDE	350	670	1000

INITIAL CLIMB

Immediately after take-off turn RIGHT course 192° to intercept ESV R-190. At D3.0 ESV at or above 1000', turn LEFT to intercept ESV R-135 (course 135°) at D12.0 ESV at or above 3500' and then direct to BOKUD, or proceed according to ATC instructions.



Altitude at distance from ESV VOR/DME.

ESV DME	2	3	4
ALTITUDE	350	670	1000

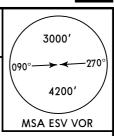
INITIAL CLIMB

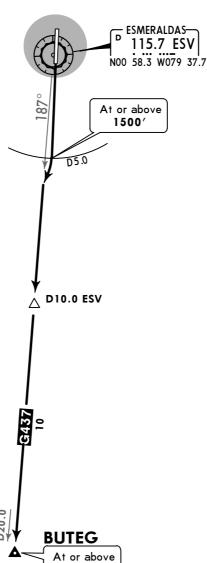
After take-off MAINTAIN runway heading to D4.0 ESV at or above 1000', turn RIGHT to cross ESV R-056 at or above 2500', course 161° direct to BOKUD to intercept airway at D20.0 ESV at or above FL060. Then, proceed according to ATC instructions.

Apt Elev 32'

Trans level: By ATC Trans alt: 4000'

BUTEG 1 DEPARTURE (BUTEG 1) (RWY 19)





NOT TO SCALE

This SID requires take-off minimums: Ceiling 100m, Visibility 1300m; and a minimum climb gradient of 5.2% (316' per NM) untill crossing at or above 1500', then 201' per NM.

Gnd speed-KT	75	100	150	200	250	300
5.2% V/V (fpm)	395	527	790	1053	1316	1580

Altitude at distance from ESV VOR/DME.

ESV DME	1	2	3	4	5
ALTITUDE	260	580	890	1200	1500

INITIAL CLIMB

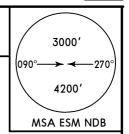
FL050

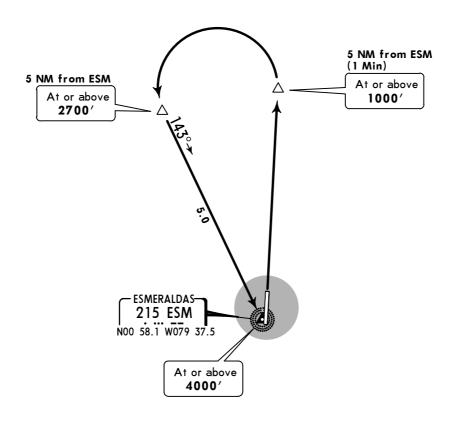
After take-off MAINTAIN runway heading to D5.0 ESV at or above 1500', turn RIGHT to intercept ESV R-187 (G-437), within D10.0 ESV, then proceed direct to BUTEG, cross at or above FL050, or proceed according to ATC instructions.



Trans level: By ATC Trans alt: 4000'

ESMERALDAS NDB 1 DEPARTURE (ESM 1) (RWY 01)







This SID requires take-off minimums: Ceiling 100m, Visibility 1300m; and a minimum climb gradient of 4.0% (243' per NM).

Gnd speed-KT	75	100	150	200	250	300
4.0% V/V (fpm)	304	405	608	810	1013	1215

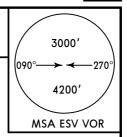
INITIAL CLIMB

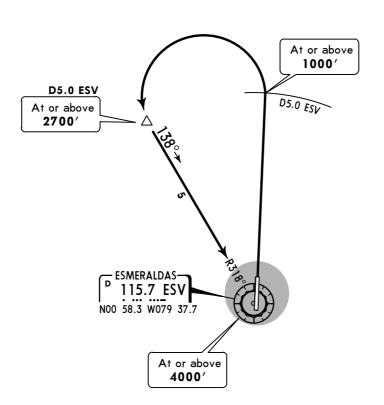
After take-off, MAINTAIN runway heading to 5 NM from ESM (1 Min) at or above 1000', turn LEFT course 143° at 5 NM from ESM at or above 2700', continue to ESM NDB at or above 4000', or proceed according to ATC instructions.

Apt Elev 32'

Trans level: By ATC Trans alt: 4000'

ESMERALDAS VOR 1 DEPARTURE (ESV 1) (RWY 01)







This SID requires take-off minimums: Ceiling 100m, Visibility 1300m; and a minimum climb gradient of 4.0% (243' per NM).

		`	•	,		
Gnd speed-KT	75	100	150	200	250	300
4.0% V/V (fpm)	304	405	608	810	1013	1215

Altitude at distance from ESV VOR/DME.

ESV DME	1	2	3	4	5
ALTITUDE	36	279	522	765	1008

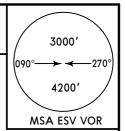
INITIAL CLIMB

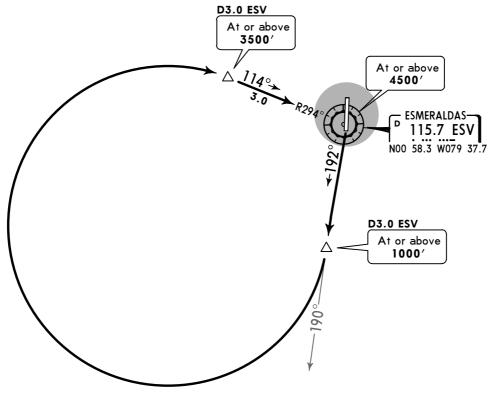
After take-off, MAINTAIN runway heading to D5.0 ESV at or above 1000', turn LEFT to intercept ESV R-318 (course 138°) to D5.0 ESV at or above 2700', continue to ESV VOR at or above 4000', or proceed according to ATC instructions.

Apt Elev

Trans level: By ATC Trans alt: 4000

ESMERALDAS VOR 1A DEPARTURE (ESV 1A) (RWY 19)







This SID requires take-off minimums: Ceiling 100m, Visibility 1300m; and a minimum climb gradient of 5.0%~(304'~per NM).

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

Altitude at distance from ESV VOR/DME.

ESV DME	1	2	3
ALTITUDE	350	670	1000

INITIAL CLIMB

Immediately after take-off turn RIGHT course 192° to intercept ESV R-190. At D3.0 ESV at or above 1000', turn RIGHT course 114° to intercept ESV R-294 at D3.0 ESV at or above 3500' to ESV VOR at or above 4500', then proceed according to ATC instructions.

TACHINA, ECUADOR
CORONEL CARLOS
CONCHA TORRES Apt Elev 32' 13 JAN 17 (10-9) N00 58.7 W079 37.6 *TACHINA Tower 122.8 119.4 79-37 180° turns on runway prohibited. Birds in vicinity of threshold Rwy 19. Elev 21 - 00-59 00-59 PARKING SPOT COORDINATES **COORDINATES** SPOT NO. 1 thru 4 N00 58.6 W079 37.5 5, 6 N00 58.7 W079 37.5 Tower Terminal 00-58.7 6 Control VOR **③** Tower 4 Terminal 3 00-58.6 [⊙]NDB 2 00-58 00-58 ① 3000 5000 1000 2000 4000 Feet 500 1000 1500 Meters 00-58.5 79-37.4 ADDITIONAL RUNWAY INFORMATION
USABLE LENGTHS
LANDING BEYOND Threshold Glide Slope RWY **TAKE-OFF** WIDTH HIRL 01 148' 19 HIRL 45m PAPI-L (angle 3.00° 7371' 2247m TAKE-OFF All Rwys 1 & 2 Eng 150m - 3000m 3 & 4 Eng

JEPPESEN

SETN/ESM

SETN/ESM



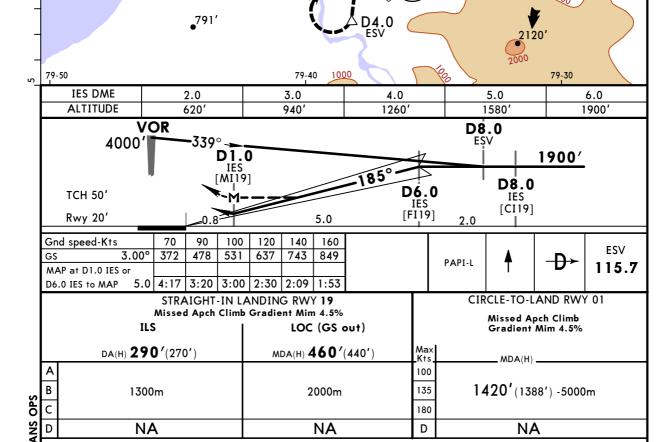
QT2	AIGHT-IN RWY	Α	В	<u> </u>	D D
19	• ILS	290 ′(270′)	290′ (270′)	290 ′(270′)	
		1300m	1300m	1300m	NA
	0 0 LOC	460 ′(440′)	460′ (440 ′)	460 ′(440′)	
		2000m	2000m	2000m	NA
	O LOC	460′ (440′)	460′ (440 ′)	460′ (440′)	NIA
		2200m	2200m	2400m	NA
	0 2 VOR	460′ (440′)	460′ (440′)	460'(440')	NIA
		2000m	2000m	2000m	NA
	O VOR	460 ′(440′)	460'(440')	460 ′(440′)	NA
		2200m	2200m	2400m	NA
	0 0 NDB	460′ (440′)	460′ (440 ′)	460 ′(440′)	NIA
		2000m	2000m	2000m	NA
	● NDB	460′ (440 ′)	460 ′(440′)	460 ′(440′)	NI A
		2200m	2200m	2400m	NA
01	9 9 VOR	460′ (428′)	460′ (428 ′)	460′ (428′)	NA
		2000m	2000m	2000m	
	③ VOR	460′ (428 ′)	460′ (428′)	460′(428′)	NA
		2200m	2200m	2400m	INA

- Missed apch climb gradient mim 4.5%.
- **2** Continuous Descent Final Approach.
- 3 Missed apch climb gradient mim 3.3%.

CIRCLE-TO-LAND	100 Kt	135 Kt	180 Kt	205 Kt	
After all approaches	1420' (1388')	1420′ (1388′)	1420′ (1388 ′)	NI A	
	5000m	5000m	5000m	NA	

TAKE-OFF

	All Rwys
1 & 2 Eng 3 & 4 Eng	150m- 3000m



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CHANGES: Rwy elevation.

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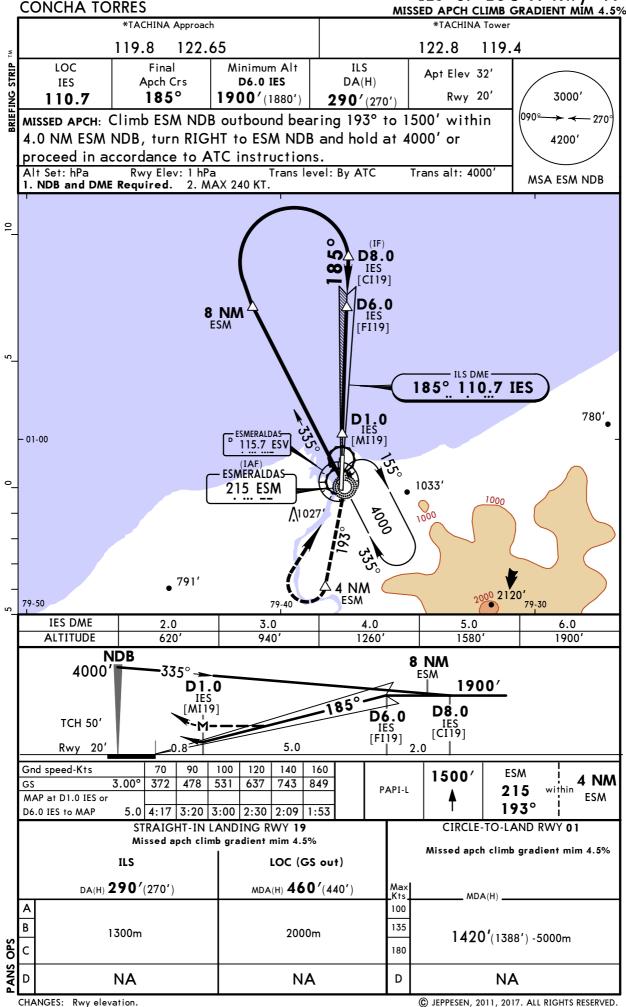
19 MAY 17
F## 25 May (11-2) CAT A, B &

TACHINA, ECUADOR

CAT A, B & C ILS OF LOC Y RWY 19
MISSED APCH CLIMB GRADIENT MIM 4.5%

*TACHINA Approach *TACHINA Tower 122.65 119.4 119.8 122.8 LOC Minimum Alt ILS Apt Elev 32' STRIP **D6.0 IES** IES Apch Crs DA(H)3000' Rwy 20' 110.7 185° **1900'**(1880') **290'**(270') MISSED APCH: Climb direct to ESV VOR, proceed outbound via ESV VOR R-190 climbing to 1500' within D4.0 ESV VOR. Turn RIGHT climbing to 4000' to ESV VOR and hold or proceed in accordance with ATC instructions. 4200' Alt Set: hPa Rwy Elev: 1 hPa 1. VOR/DME required. Trans level:By ATC Trans alt: 4000' MSA ESV VOR D8.0 IES [CI19] **D6.0** IES [FI19] ILS DME -185° 110.7 IES 9 .780° **D1.0** IES [MI19] (IAF) **ESMERALDAS** - 01-00 115.7 ESV 59° 2 1033′ 1027 .791 2120' 1000 1356 D12.0 1000 1000 ESV) [D135L] -315°-00-50 1441 FL060 [from BOKUD] 79-40 79-30 **IES DME** 2.0 3.0 4.0 5.0 6.0 620 940 1260 1580 1900' ALTITUDE D8.0 **VOR** D12.0 D6.0 IES [CI19] **ESV** [FI19] D1.0 **↑**FL060 IES [MI19] [D135L] 1900' TCH 50' ←10 DME Arc ESV-5.0 2.0 Rwy 20' Gnd speed-Kts 120 140 160 90 100 **ESV** 3.00° 372 478 637 743 | 849 531 Ð→ PAPI-L 115.7 MAP at D1.0 IES or D6.0 IES to MAP 5.0 4:17 | 3:20 | 3:00 | 2:30 | 2:09 STRAIGHT-IN LANDING RWY 19
Missed apch climb gradient mim 4.5% CIRCLE-TO-LAND RWY 01 Missed apch climb gradient mim 4.5% ILS LOC (GS out) DA(H) **290** '(270' MDA(H) 460'(440') MDA(H) 100 Α OPS В 1420'(1388') -5000m 135 1300m 2000m PANS С 180 D NA NA D NA CHANGES: Rwy elevation. © JEPPESEN, 2011, 2017. ALL RIGHTS RESERVED.

ILS or LOC X Rwy 19



SETN/ESM CORONEL CARLOS

CHANGES: Rwy elevation.

TACHINA, ECUADOR

(11-4) CAT A, B & C ILS or LOC W Rwy 19

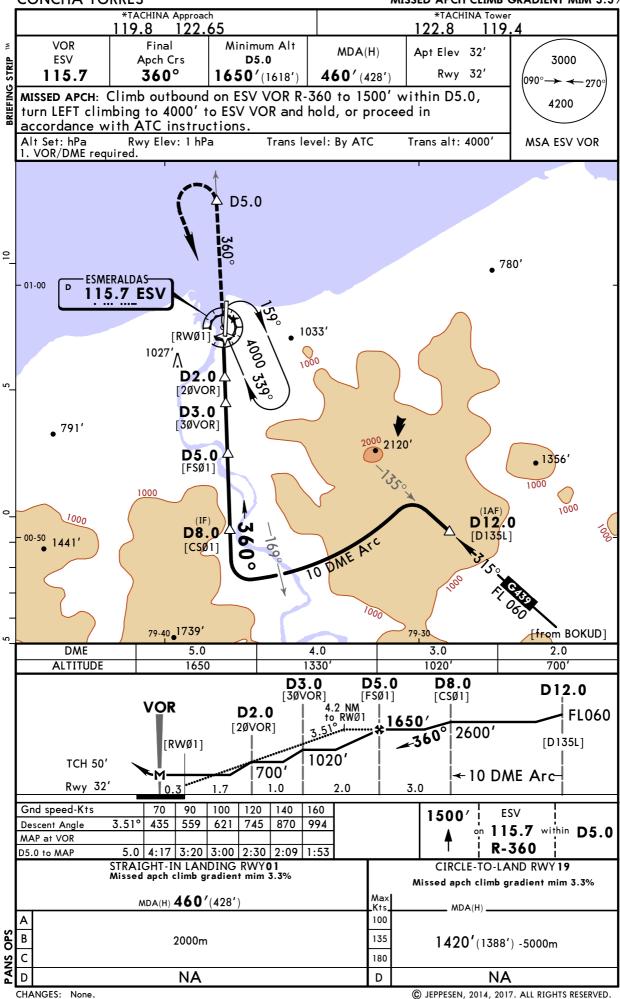
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CONCHA TORRES MISSED APCH CLIMB GRADIENT MIM 4.5% *TACHINA Approach *TACHINA Tower 122.65 119.4 119.8 122.8 LOC Minimum Alt ILS Apt Elev 32' STRIP IES Apch Crs **D6.0 IES** DA(H)3000' Rwy 20' 110.7 185° **1900'**(1880') 290'(270') MISSED APCH: Climb direct to ESV VOR, proceed outbound via ESV VOR R-190 climbing to 1500' within D4.0 ESV VOR. Turn RIGHT climbing to 4000' to ESV VOR and hold or proceed in accordance with ATC instructions. 090° 4200' Alt Set: hPa Rwy Elev: 1 hPa
1. VOR/DME required. Trans level:By ATC Trans alt: 4000' MSA ESV VOR [from ANGEL] - 01-10 10 DME Arc ESI D12.0 (IF) D8.0 [DØ49L [CI19] 2 D6.0 ∞ IES [FI19] ILS DME-185° 110.7 IES 2 • 780[°] D1.0 IES [MI19] .0 ESMERALDAS - 01-00 115.7 ESV 59° 1033 1027 1000 •791[°] 120 1356 1000 1000 1000 79-40 79-30 IES DME 2.0 3.0 4.0 5.0 6.0 ALTITUDE 620 940 1260 1580 1900' D8.0 **VOR** D6.0 D12.0 IES [FI]9] IES [CI19] **ESV** D1.0 → FL050 IES [MI19] [DØ49L] 1900' TCH 50' ←10 DME Arc ESV-5.0 2.0 Rwy 20 Gnd speed-Kts 90 100 120 140 160 **ESV** 372 637 3.00° 478 531 743 849 GS -D> PAPI-L 115.7 MAP at D1.0 IES or D6.0 IES to MAP 5.0 4:17 3:20 3:00 2:30 2:09 1:53 STRAIGHT-IN LANDING RWY 19
Missed apch climb gradient mim 4.5% CIRCLE-TO-LAND RWY 01 Missed apch climb gradient mim 4.5% LOC (GS out) ILS Max Kts DA(H) **290'**(270' MDA(H) 460'(440') MDA(H). 100 Α OPS В 135 1420'(1388') -5000m 1300m 2000m PANS С 180 D $\overline{\mathsf{NA}}$ $\overline{\mathsf{NA}}$ D NA



TACHINA, ECUADOR

CAT A, B & C VOR Z RWY 01
MISSED APCH CLIMB GRADIENT MIM 3.3%

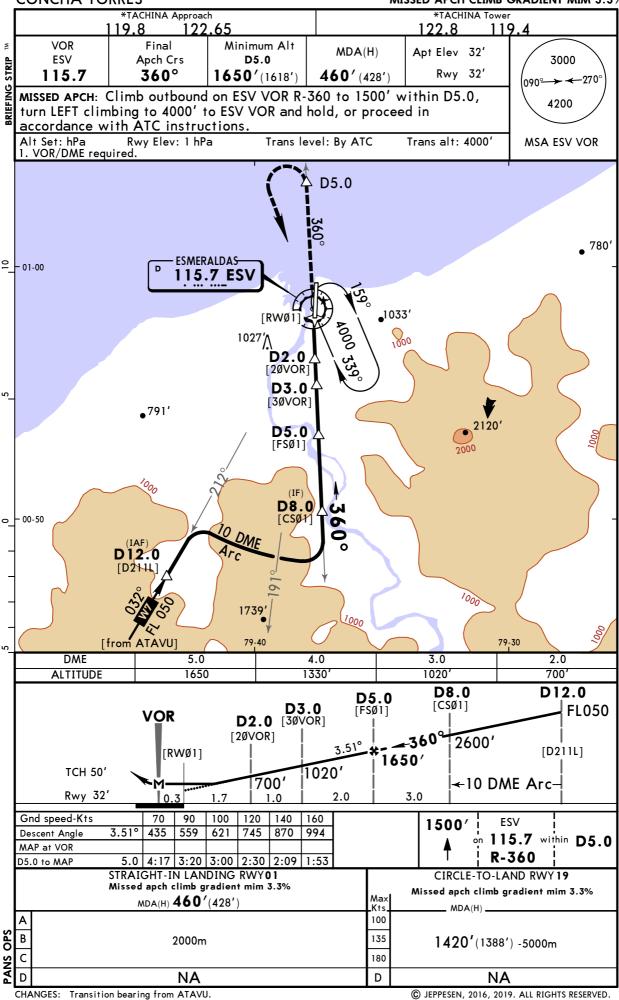




(13-2)

TACHINA, ECUADOR

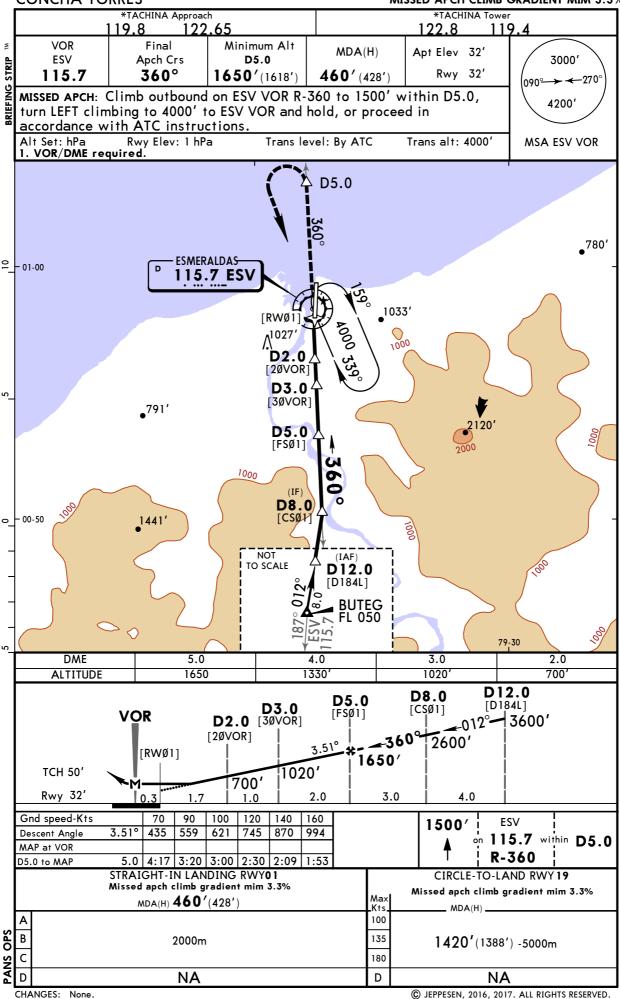
CAT A, B & C VOR Y Rwy 01 MISSED APCH CLIMB GRADIENT MIM 3.3%





TACHINA, ECUADOR

CAT A, B & C VOR X RWY 01
MISSED APCH CLIMB GRADIENT MIM 3.3%



CATA, B&C VOR Z RWV 19

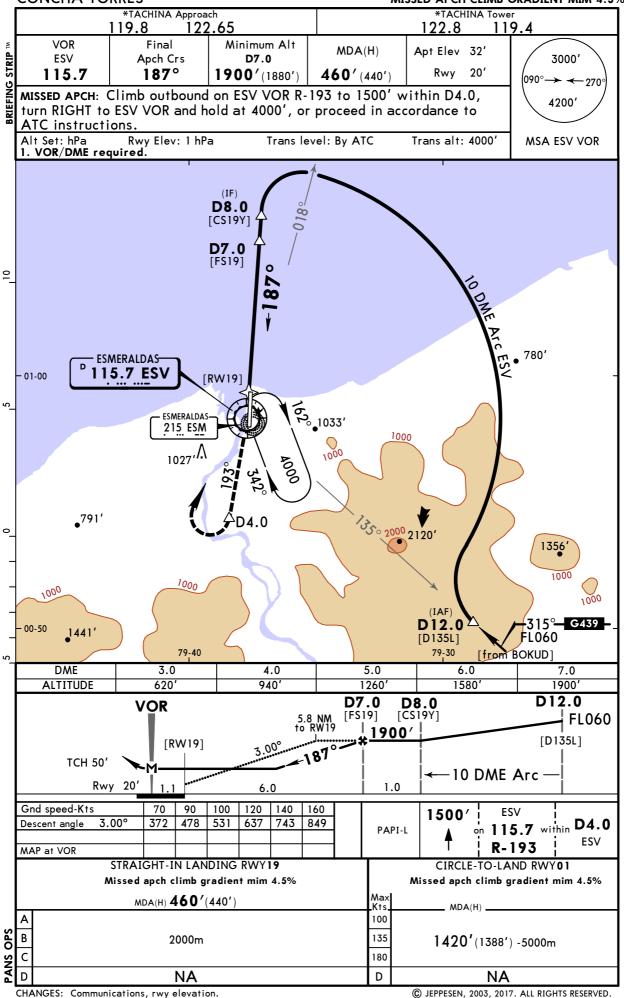
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Eff 25 May **CONCHA TORRES** MISSED APCH CLIMB GRADIENT MIM 4.5% *TACHINA Tower *TACHINA Approach 119.8 122.65 122.8 119.4 VOR Minimum Alt Final MDA(H) Apt Elev 32' Apch Crs 187° D7.0 **ESV** Rwy 20' 460'(440') **1900'**(1880') 115.7 3000' MISSED APCH: Climb outbound on ESV VOR R-193 to 1500' within D4.0, 090º turn RIGHT to ESV VOR and hold at 4000', or proceed in accordance to 4200' ATC instructions. Alt Set: hPa Rwy Elev: 1 hPa 1. VOR/DME required. 2. MAX 240 KT. Trans level: By ATC Trans alt: 4000 MSA ESV VOR 2 (IF) D9.0 D9.0 [CS19Z] D7.0 [FS19] 780' - 01-00 (IAF) [RW19] **ESMERALDAS** 115.7 ESV ج_{، 1033′} 1000 215 ESM • 791 2000 2120 79-40 79-50 DME 3.0 4.0 5.0 6.0 7.0 ALTITUDE 940' 1260 1580 1900' 620 VOR **D9.0** [CS19Z] 4000' 15.8 NM to RW19 ·342° O 1900' ** [RW19] D7.0 TCH 50' [FS19] 6.0 Rwy 20' 2.0 Gnd speed-Kts 70 90 100 120 140 160 **ESV** 1500' D4.0 3.00° 372 478 531 637 743 849 Descent angle PAPI-L 115.7 within **ESV** R-193 MAP at VOR STRAIGHT-IN LANDING RWY19 CIRCLE-TO-LAND RWY 01 Missed apch climb gradient mim 4.5% Missed apch climb gradient mim 4.5% Max Kts MDA(H) 460'(440') MDA(H). 100 В 135 1420'(1388') -5000m 2000m OPS C 180 PANS (D NA D NA CHANGES: Communications, rwy elevation.



TACHINA, ECUADOR

CAT A, B & C VOR Y RWY 19
MISSED APCH CLIMB GRADIENT MIM 4.5%



SETN/ESM CORONEL CARLOS

CHANGES: Communications, rwy elevation.



TACHINA, ECUADOR

CAT A, B & C NDB Rwy 19

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