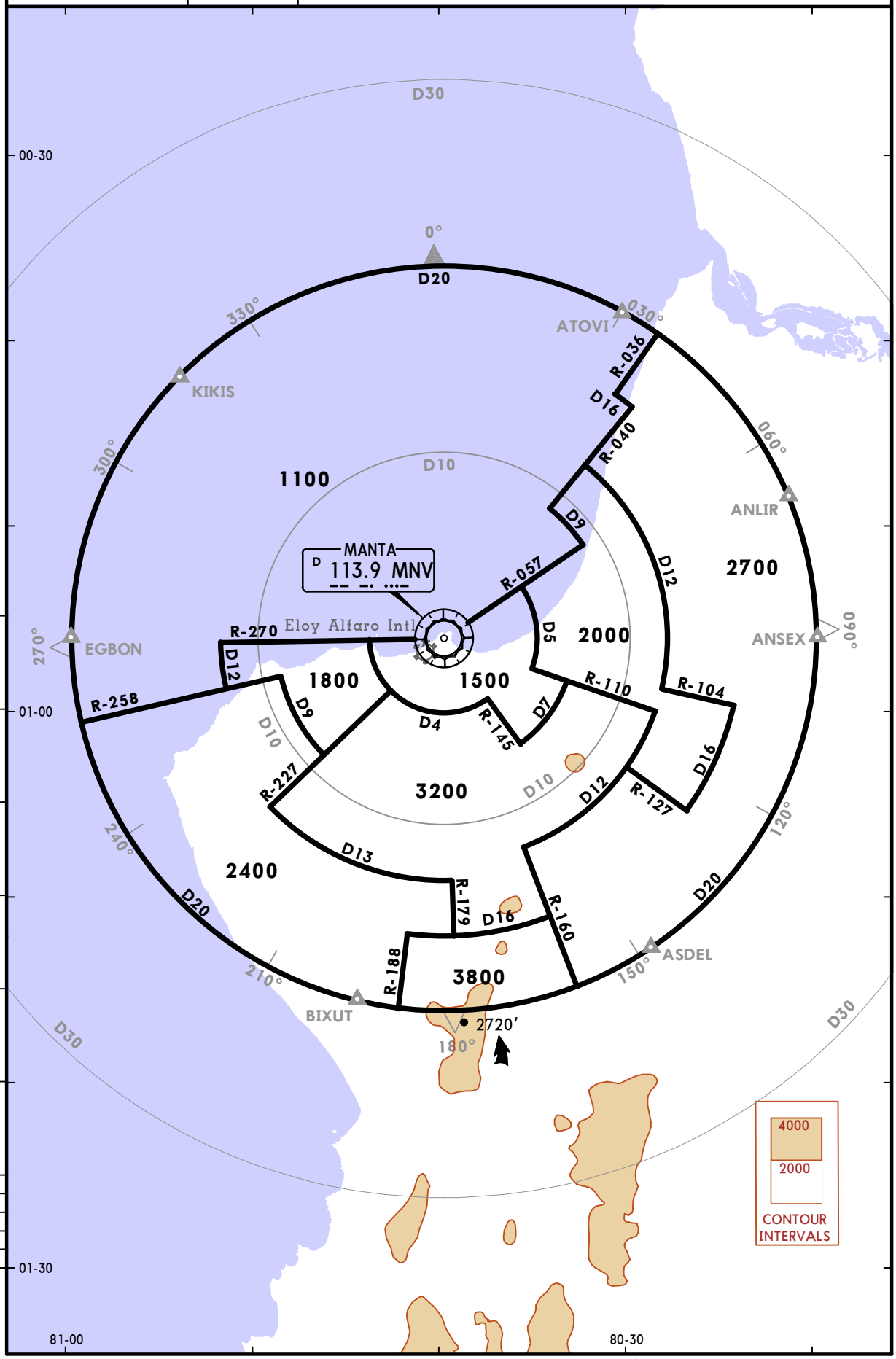
MANTA Approach	Apt Elev	
122.7 123.1	48′	Alt Set: hPa Trans level: By ATC Trans alt: 4000′ This chart should only be used to verify altitudes assigned by radar vector control.



CHANGES: Chart and notes revised.

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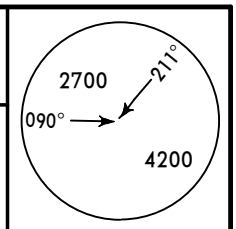
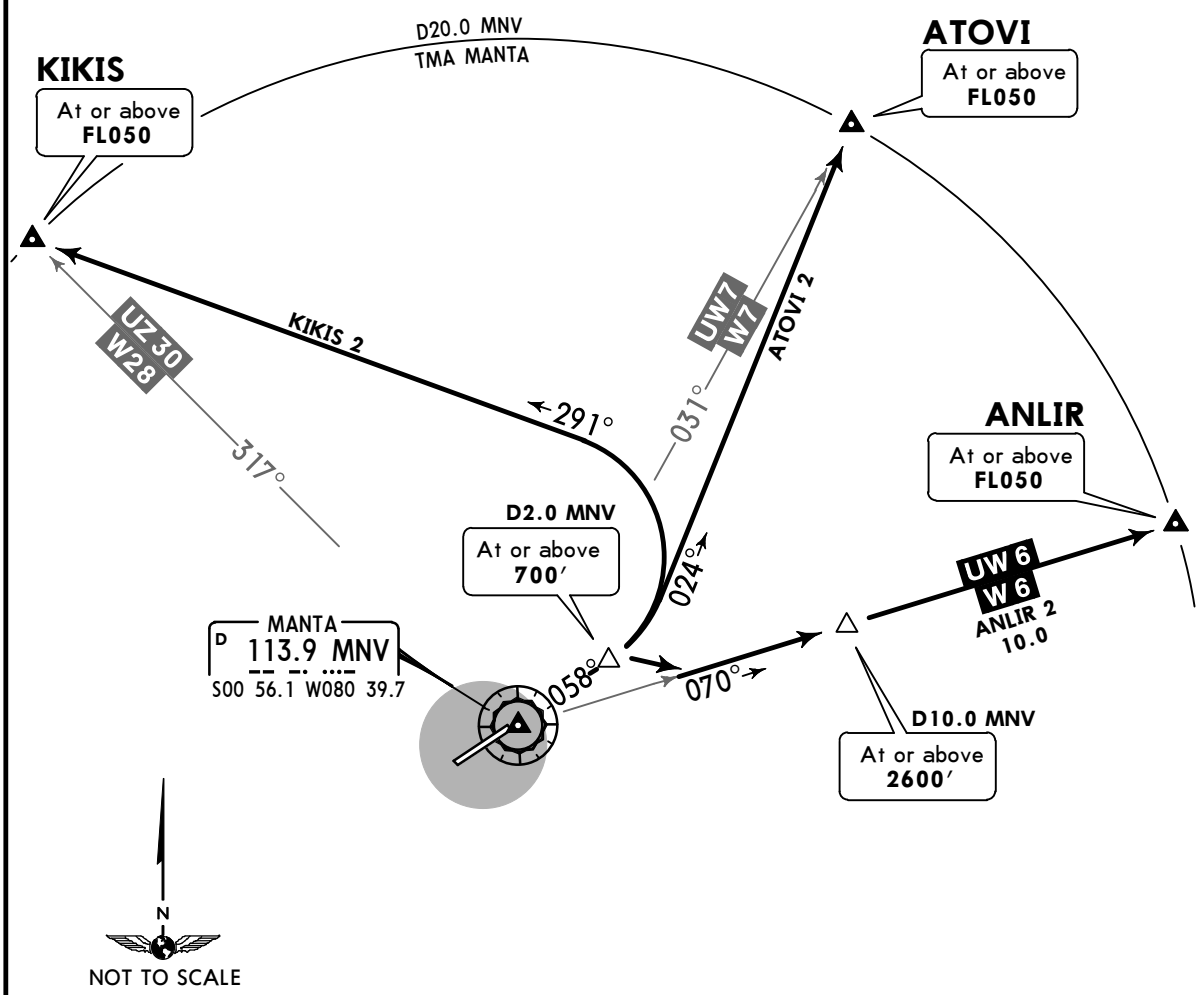
Apt Elev 48′	Trans level: By ATC Trans alt: 4000′



ANLIR 2 (ANLIR 2), ATOVI 2 (ATOVI 2) KIKIS 2 (KIKIS 2) DEPARTURES (RWY 06)



These SIDs require take-off minimums:
Ceiling 120m, Visibility 800m; 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 continue direct to MNV VOR, MAINTAIN course 058° (MNV R-058) to D2.0 MNV, cross at or above 700′.

SID	ROUTING
ANLIR 2	At D2.0 MNV turn RIGHT to intercept MNV R-070 (course 070°), airway W-6 to D10.0 MNV, cross at or above 2600′, then direct to ANLIR, cross at or above FL050, or proceed according to ATC instructions.
ATOVI 2	At D2.0 MNV turn LEFT on course 024° to intercept airway W-7 (MNV R-031) at D20.0 MNV/ATOVI, cross at or above FL050, or proceed according to ATC instructions.
KIKIS 2	At D2.0 MNV turn LEFT on course 291° to intercept airway W-28 (MNV R-317) at D20.0 MNV/KIKIS, cross at or above FL050, or proceed according to ATC instructions.

CHANGES: Procedures renumbered, bearings.

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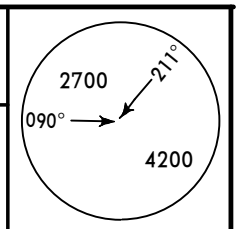
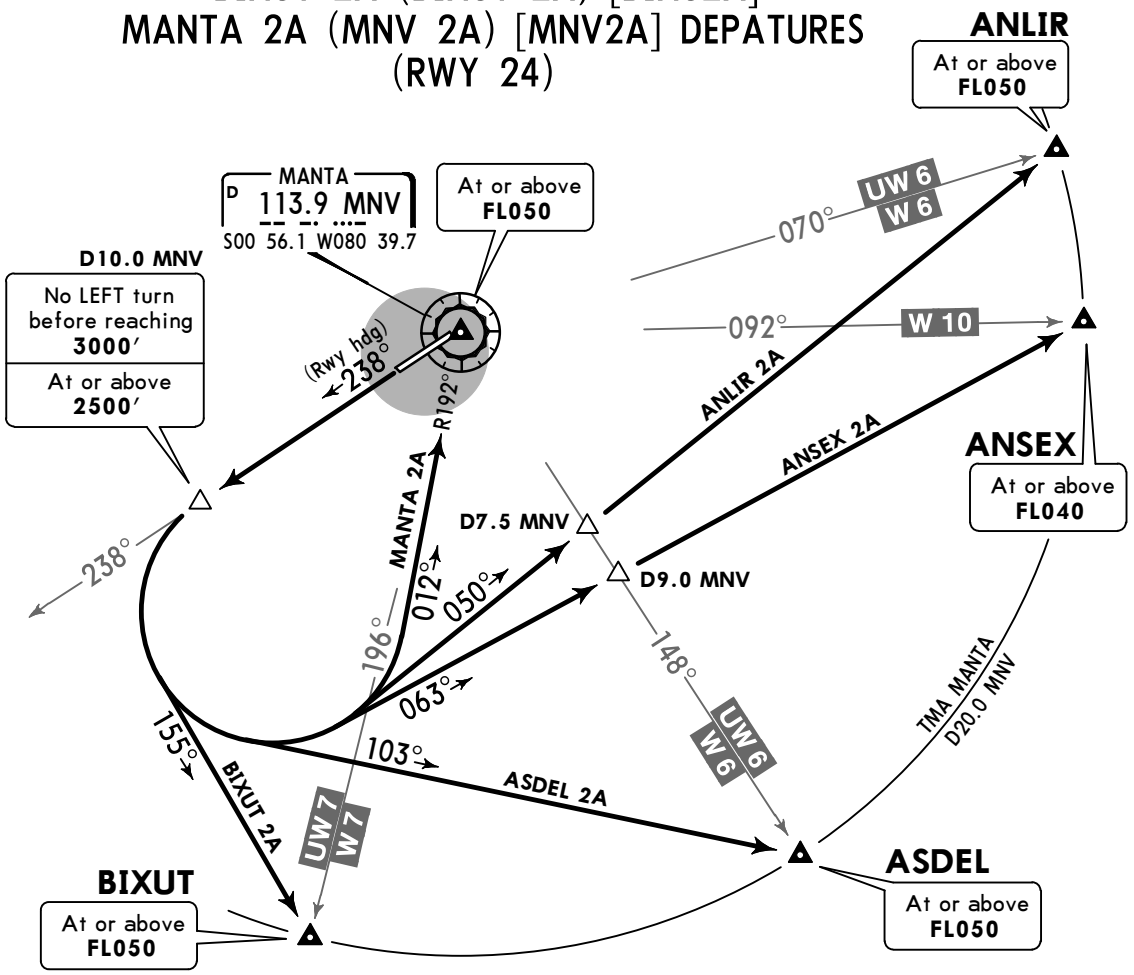
Apt Elev 48′	Trans level: By ATC Trans alt: 4000′



ANLIR 2A (ANLIR 2A) [ANLI2A]
ANSEX 2A (ANSEX 2A) [ANSE2A]
ASDEL 2A (ASDEL 2A) [ASDE2A]
BIXUT 2A (BIXUT 2A) [BIXU2A]
MANTA 2A (MNV 2A) [MNV2A] DEPATURES (RWY 24)



These SIDs require take-off minimums:
Ceiling 120m, Visibility 800m; 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

INITIAL CLIMB

After take-off, MAINTAIN runway heading to D10.0 MNV, cross at or above 2500′. No LEFT turn before reaching 3000′.

SID	ROUTING
ANLIR 2A	Turn LEFT on course 050° to intercept airway W-6 (MNV R-070) at D20.0 MNV/ANLIR at or above FL050, or proceed according to ATC instructions.
ANSEX 2A	Turn LEFT on course 063° to intercept airway W-10 (MNV R-092) at D20.0 MNV/ANSEX at or above FL040, or proceed according to ATC instructions.
ASDEL 2A	Turn LEFT on course 103° to intercept airway W-6 (MNV R-148) at D20.0 MNV/ASDEL at or above FL050, or proceed according to ATC instructions.
BIXUT 2A	Turn LEFT on course 155° to intercept airway W-7 (MNV R-196) at D20.0 MNV/BIXUT at or above FL050, or proceed according to ATC instructions.
MANTA 2A	Turn LEFT on course 012° (MNV R-192) to MNV VOR, cross at or above FL050, then intercept airway, or proceed according to ATC instructions.

CHANGES: Procedures renumbered, bearings.

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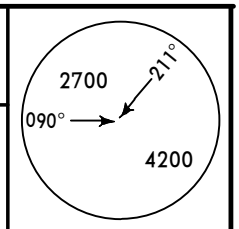
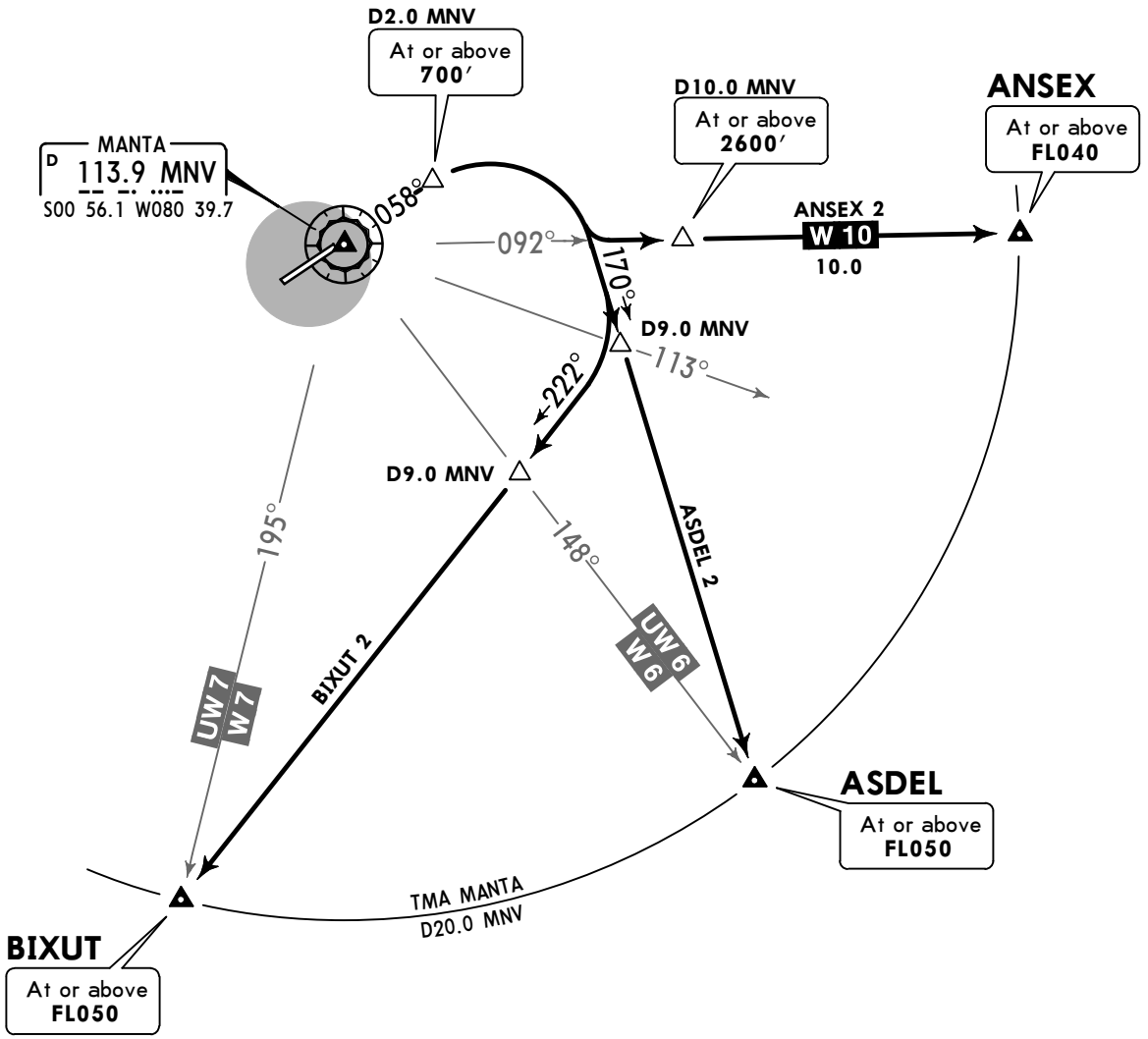
Apt Elev 48′	Trans level: By ATC Trans alt: 4000′

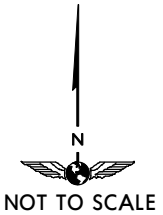


ANSEX 2 (ANSEX 2), ASDEL 2 (ASDEL 2) BIXUT 2 (BIXUT 2) DEPARTURES (RWY 06)



These SIDs require take-off minimums:
Ceiling 120m, Visibility 800m; 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 continue direct to MNV VOR, then course 058° (MNV R-058) to D2.0 MNV, cross at or above 700′.

SID	ROUTING
ANSEX 2	At D2.0 MNV turn RIGHT to intercept MNV R-092 (course 092°), airway W-10 to D10.0 MNV, cross at or above 2600′, proceed direct to ANSEX, cross at or above FL040, or proceed according to ATC instructions.
ASDEL 2	At D2.0 MNV turn RIGHT on course 170° to intercept airway W-6 (MNV R-148) at D20.0 MNV/ ASDEL, cross at or above FL050, or proceed according to ATC instructions.
BIXUT 2	At D2.0 MNV turn RIGHT on course 222° to intercept airway W-7 (MNV R-195) at D20.0 MNV/ BIXUT, cross at or above FL050, or proceed according to ATC instructions.

CHANGES: Procedures renumbered, bearings.

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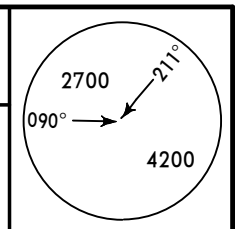
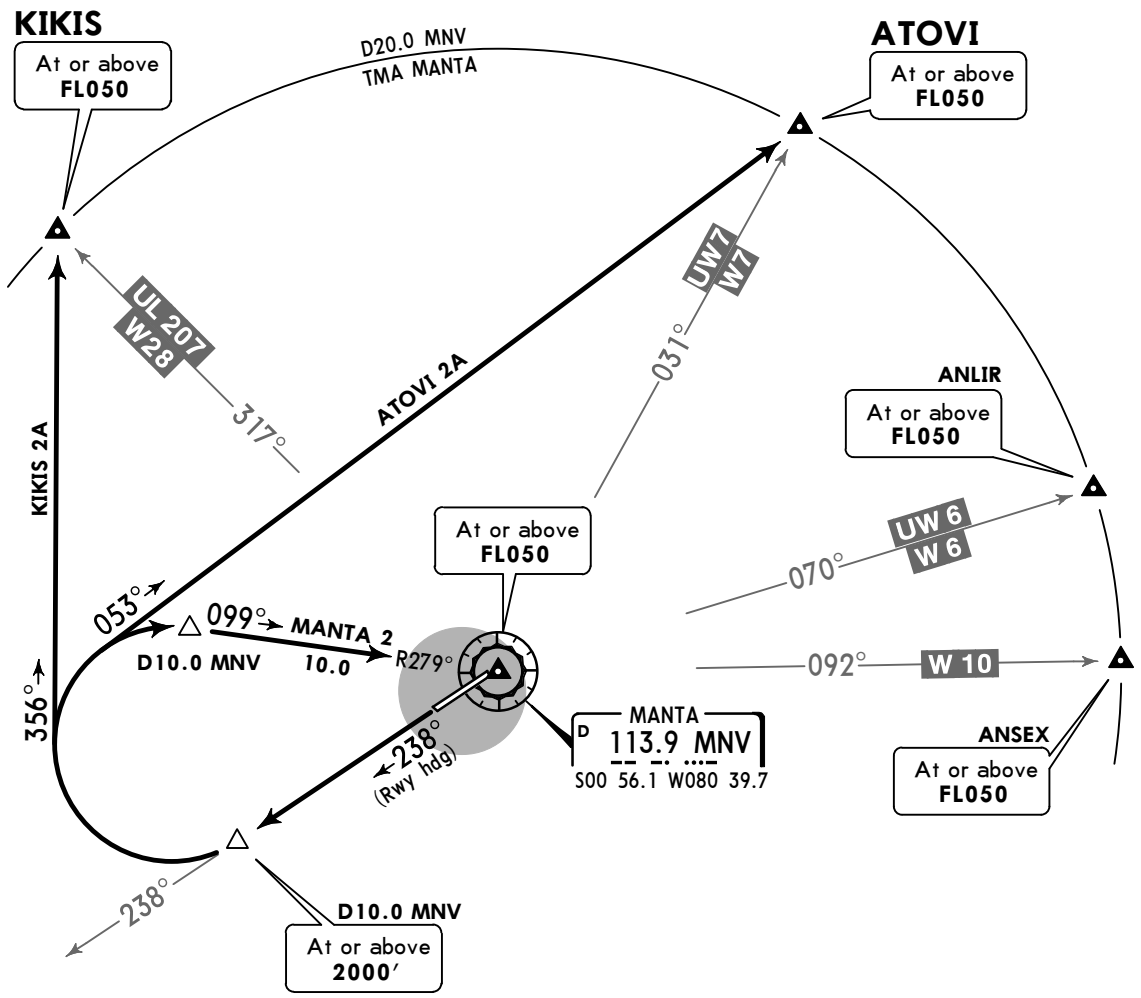
Apt Elev 48′	Trans level: By ATC Trans alt: 4000′



ATOVI 2A (ATOVI 2A) [ATOV2A]
KIKIS 2A (KIKIS 2A) [KIKI2A]
MANTA 2 (MNV 2) [MNV2] DEPARTURES
(RWY 24)



NOT TO SCALE

These SIDs require take-off minimums:
Ceiling 120m, Visibility 800m; 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 D10.0 MNV, cross at or above 2000′.

SID	ROUTING
ATOVI 2A	At D10.0 MNV turn RIGHT on course 053° to intercept airway W-7 (MNV R-031) at D20.0 MNV/ATOVI, cross at or above FL050, or proceed according to ATC instructions.
KIKIS 2A	At D10.0 MNV turn RIGHT on course 356° to intercept airway W-28 (MNV R-317) at D20.0 MNV/KIKIS, cross at or above FL050, or proceed according to ATC instructions.
MANTA 2	At D10.0 MNV turn RIGHT on course 099° (MNV R-279) to MNV VOR, cross at or above FL050, or proceed according to ATC instructions.

CHANGES: Procedures renumbered, bearings, airway UL-207 added.

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NOISE ABATEMENT PROCEDURES

LOCAL TIME PLUS **5 HOURS** = UTC (Z)

GENERAL

1. The following procedures have been established to avoid excessive noise in the areas surrounding the airport.
2. Flight crews may omit these procedures for safety reasons or in case of emergency.
3. These procedures apply during the operating hours of the airport.
4. These procedures do not apply to aircraft that follow the ICAO STAGE IV prerequisites.

PROCEDURES

RWY 06/24
Climb at V2 + 10 until a minimum altitude of 800 ft above airport elevation before power reduction; continue climb at V2 + 10 to 3000 ft; clean the aircraft and continue with an instrument or visual departure.

Climb at V2 + 10 or 15° pitch angle, whichever is more limiting.

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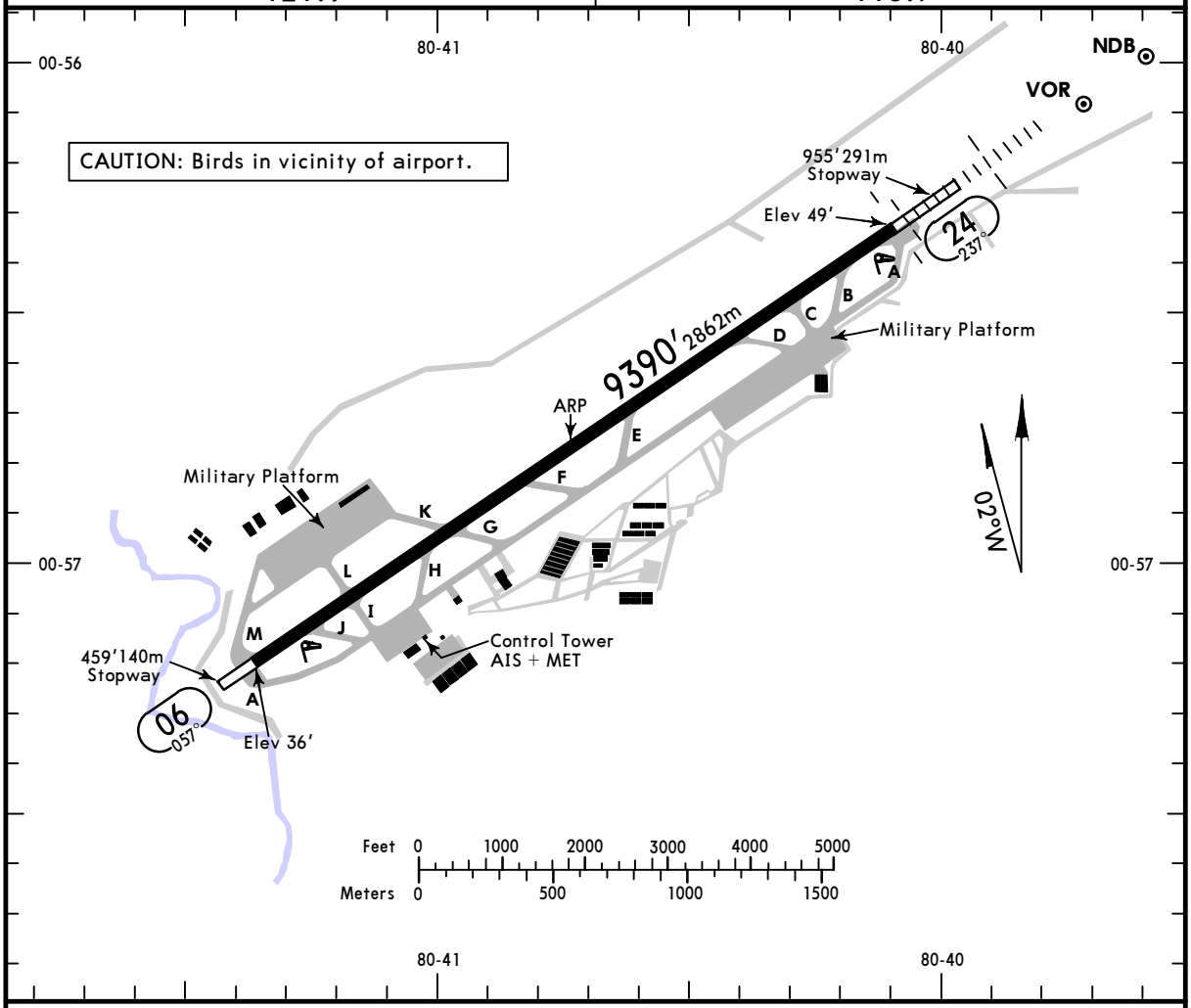
MANTA Ground	Tower
121.9	118.7



ADDITIONAL RUNWAY INFORMATION

RWY		USABLE LENGTHS — LANDING BEYOND: Threshold	Glide Slope	TAKE-OFF	WIDTH
06	HIRL REIL				148′ 45m
24	HIRL HIALS REIL PAPI-L (angle 3.0°)		8297′ 2529m		

	TAKE-OFF
	All Rwys
1 & 2 Eng	120m- 2 km
3 & 4 Eng	

CHANGES: Taxiways, buildings, lights.

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SEMT/MEC

ELOY ALFARO INTL

JEPPESEN

21 FEB 20 (11-1)

MISSED APCH CLIMB GRADIENT MIM 3.3%

MANTA, ECUADOR
ILS or LOC 1Z Rwy 24

BRIEFING STRIP ™

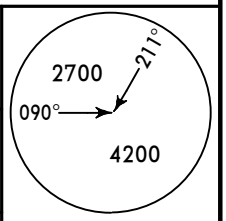
MANTA Approach	MANTA Tower	Ground
122.7	118.7	121.9

LOC ILM	Final Apch Crs	GS D6.0 ILM	ILS DA(H)	Apt Elev 48′
110.1	238°	1900′(1852′)	290′(242′)	Rwy 48′

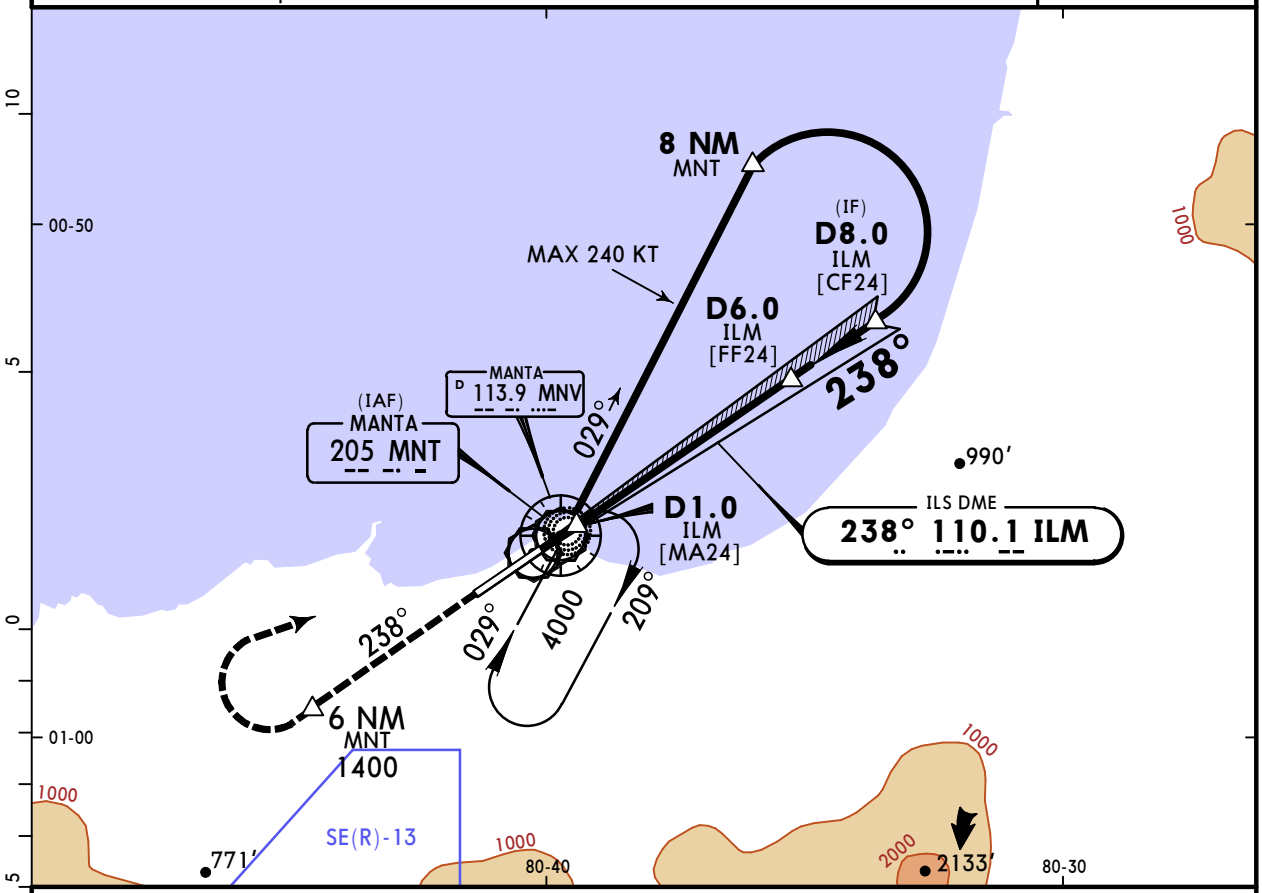
MISSED APCH: Climb on course 238° to 1400′ within 6 NM MNT NDB, climbing RIGHT turn to 4000′ and join hold or proceed in accordance with ATC instructions.

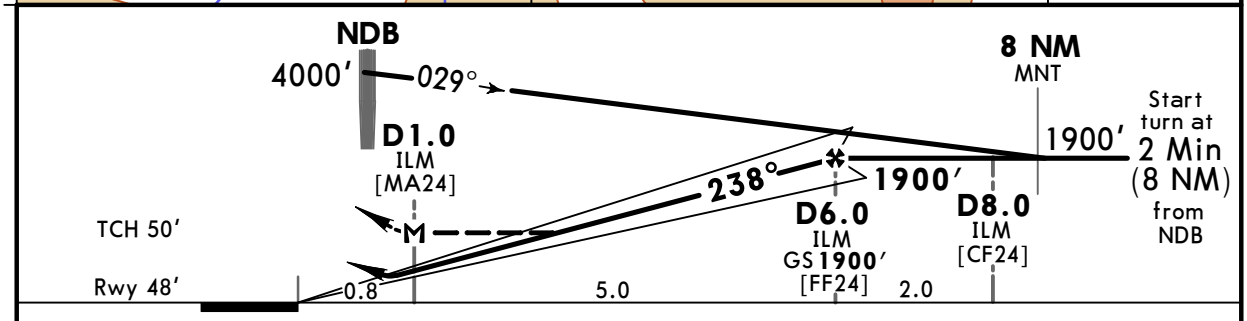
Alt Set: hPa Rwy Elev: 2 hPa Trans level: By ATC Trans alt: 4000′

MNT NDB and DME required.



MSA MNT NDB





Gnd speed-Kts		70	90	100	120	140	160
GS	3.00°	372	478	531	637	743	849
MAP at D1.0 ILM or D6.0 ILM to MAP	5.0	4:17	3:20	3:00	2:30	2:09	1:53

HIALS
REIL
PAPI-L

1400′ ↑ on 238° course within 6 NM MNT

STRAIGHT-IN LANDING RWY24
Missed Apch Climb Gradient mim 3.3%

PANS OPS

	ILS DA(H) 290′(242′) FULL	ILS DA(H) 290′(242′) ALS out	LOC (GS out) MDA(H) 340′(292′)	LOC (GS out) MDA(H) 340′(292′) ALS out
A	800m	1300m	800m	1600m
B				
C				
D			1200m	

CIRCLE-TO-LAND RWY06

Max Kts	MDA(H)
100	760′(712′) -3600m
135	
180	
205	

CHANGES: Bearings, missed approach, recommended alt, MSA, proc title, CNF.

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SEMT/MEC

ELOY ALFARO INTL

JEPPESEN

21 FEB 20 (11-2) MISSED APCH CLIMB GRADIENT MIM 3.3%

MANTA, ECUADOR
ILS or LOC 1Y Rwy 24

BRIEFING STRIP ™

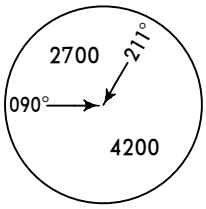
MANTA Approach	MANTA Tower	Ground
122.7	118.7	121.9

LOC ILM	Final Apch Crs	GS D6.0 ILM	ILS DA(H)	Apt Elev 48′ Rwy 48′
110.1	238°	1900′(1852′)	290′(242′)	

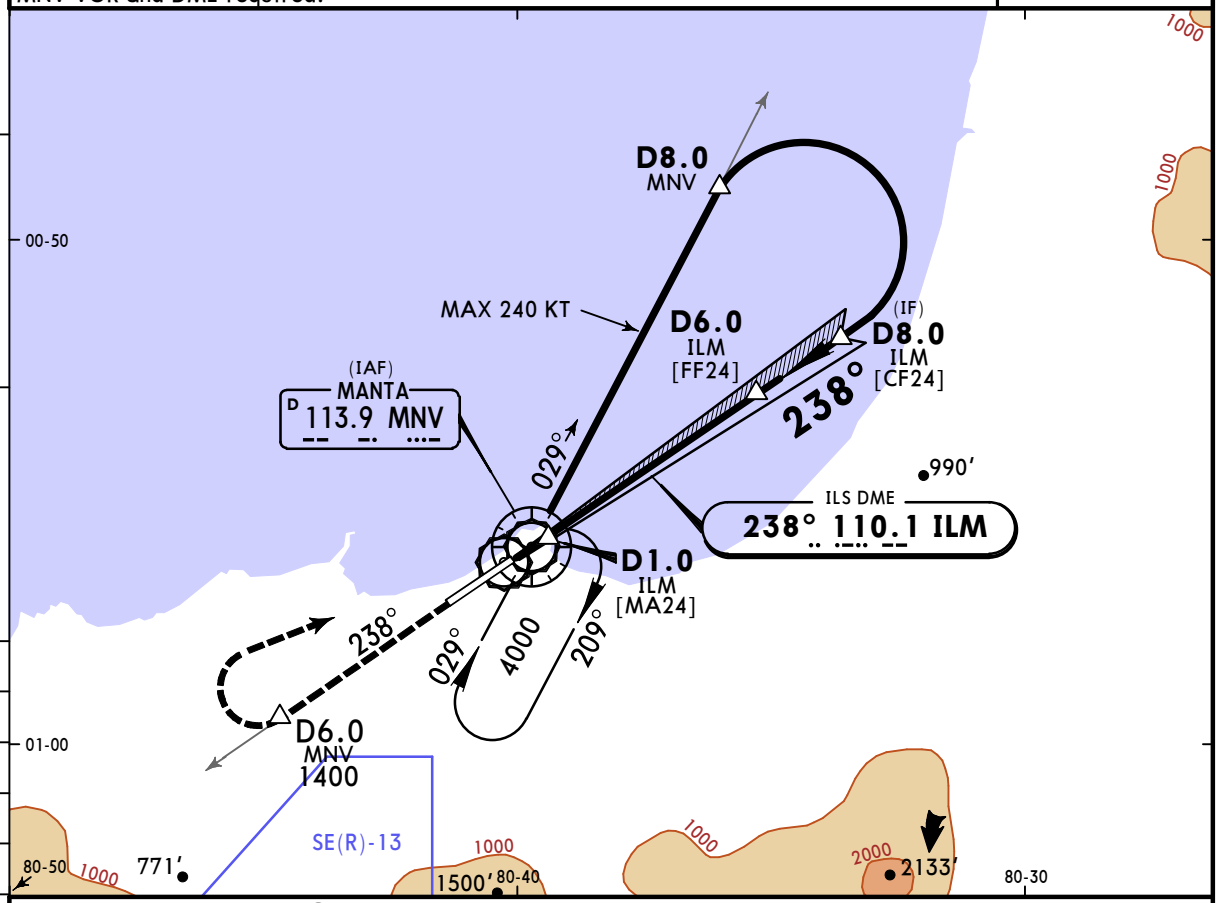
MISSED APCH: Climb on course 238° (MNV VOR R-238) to 1400′ within D6.0 MNV VOR, climbing RIGHT turn to 4000′ and join hold or proceed in accordance with ATC instructions.

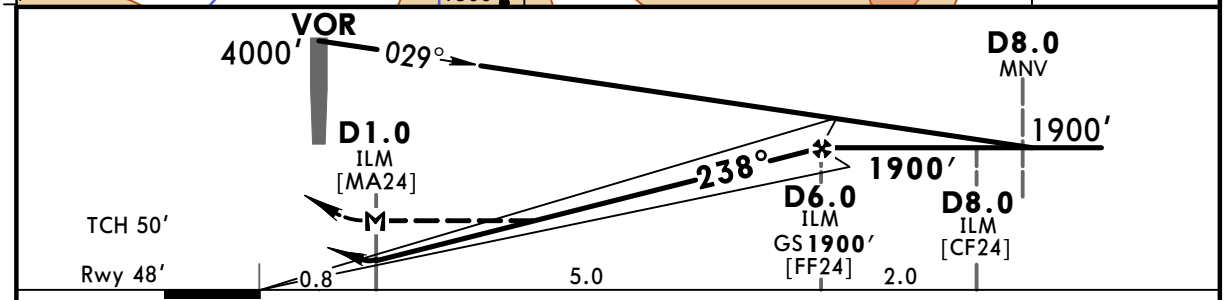
Alt Set: hPa Rwy Elev: 2 hPa Trans level: By ATC Trans alt: 4000′

MNV VOR and DME required.



MSA MNV VOR





Gnd speed-Kts		70	90	100	120	140	160
GS	3.00°	372	478	531	637	743	849
MAP at D1.0 ILM or D6.0 to MAP	5.0	4:17	3:20	3:00	2:30	2:09	1:53

HIALS REIL PAPI-L: 1400′ ↑ on 238° course within D6.0 MNV

PANS OPS

	STRAIGHT-IN LANDING RWY24 Missed apch climb gradient mim 3.3%				CIRCLE-TO-LAND RWY06	
	ILS DA(H) 290′(242′)		LOC (GS out) MDA(H) 340′(292′)			
	FULL	ALS out		ALS out	Max Kts	MDA(H)
A	800m	1300m	800m	1600m	100	760′(712′) -3600m
B					135	
C					180	
D			1200m		205	

CHANGES: Bearings, missed approach, recommended alt, MSA, proc title, CNF.

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SEMT/MEC
ELOY ALFARO INTL

JEPPESEN 21 FEB 20 (11-3)

MISSED APCH CLIMB GRADIENT MIM 3.3%

MANTA, ECUADOR
ILS or LOC 1X Rwy 24

BRIEFING STRIP ™

MANTA Approach	MANTA Tower	Ground
122.7	118.7	121.9

LOC ILM	Final Apch Crs	GS D6.0 ILM	ILS DA(H)	Apt Elev 48′ Rwy 48′
110.1	238°	1900′(1852′)	290′(242′)	

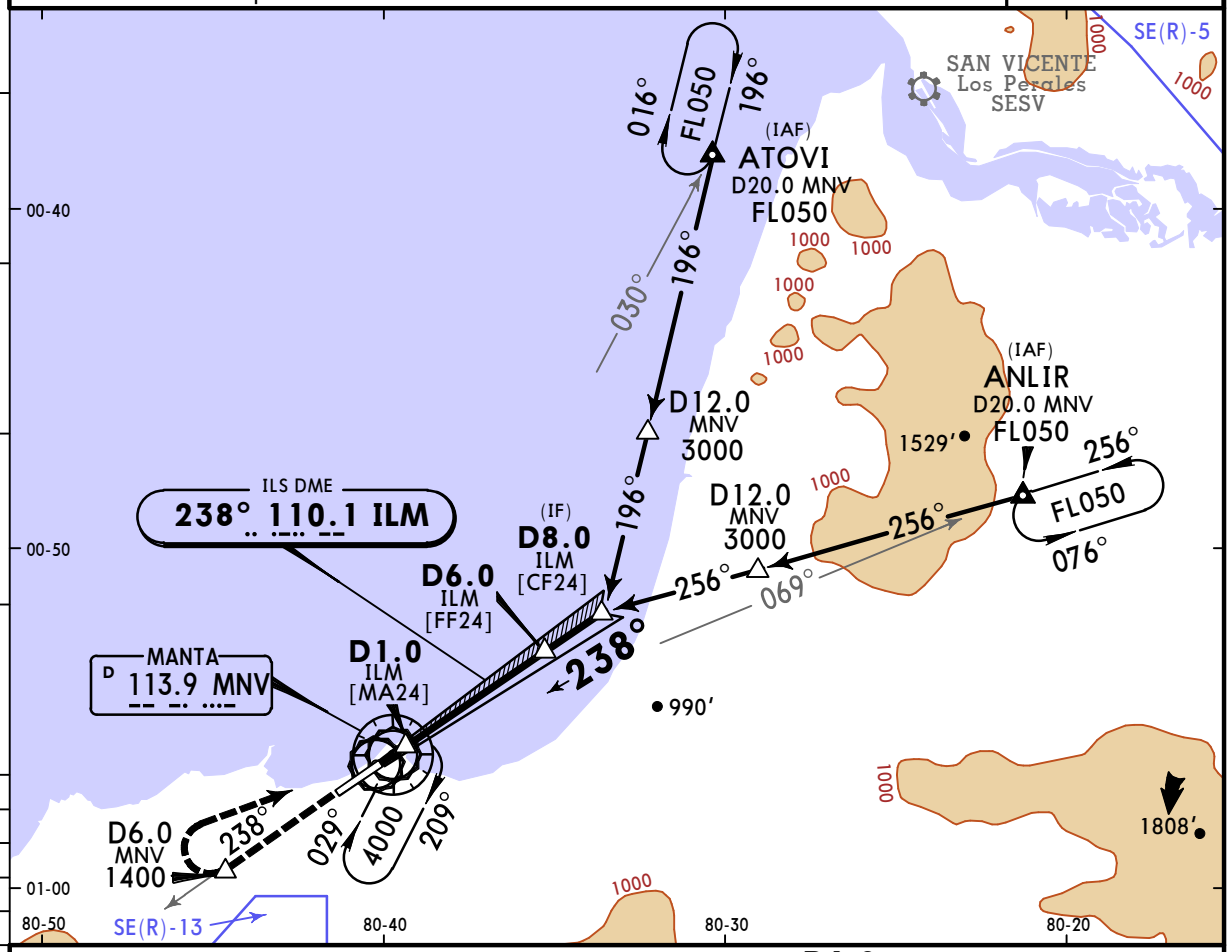
MISSED APCH: Climb on course 238° (MNV VOR R-238) to 1400′ within D6.0 MNV VOR, climbing RIGHT turn to 4000′ and join hold or proceed in accordance with ATC instructions.

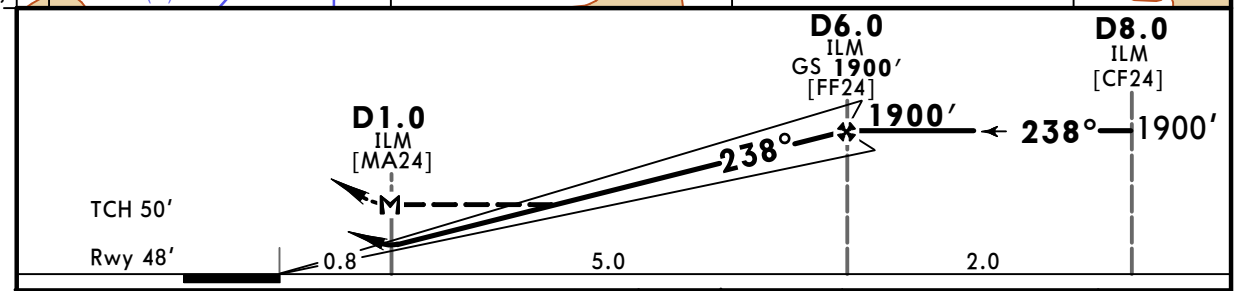
Alt Set: hPa Rwy Elev: 2 hPa Trans level: By ATC Trans alt: 4000′

MNV VOR and DME required.

2700 211° 090° 4200

MSA MNV VOR





Gnd speed-Kts		70	90	100	120	140	160
GS	3.00°	372	478	531	637	743	849
MAP at D1.0 ILM or D6.0 to MAP	5.0	4:17	3:20	3:00	2:30	2:09	1:53

HIALS REIL PAPI-L 1400′ ↑ on 238° course within D6.0 MNV

STRAIGHT-IN LANDING RWY 24
Missed Apch Climb Gradient mim 3.3%

	ILS DA(H) 290′(242′) FULL	ILS DA(H) 290′(242′) ALS out	LOC (GS out) MDA(H) 340′(292′)	LOC (GS out) MDA(H) 340′(292′) ALS out
A	800m	1300m	800m	1600m
B				
C				
D			1200m	

CIRCLE-TO-LAND RWY 06

Max Kts	MDA(H)
100	760′(712′) -3600m
135	
180	
205	

PANS OPS

CHANGES: Bearings, missed approach, recommended alt, MSA, proc title, CNF.

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SEMT/MEC

ELOY ALFARO INTL

JEPPESEN

21 FEB 20 (11-4)

MISSED APCH CLIMB GRADIENT MIM 3.3%

MANTA, ECUADOR ILS or LOC 1W Rwy 24

BRIEFING STRIP ™

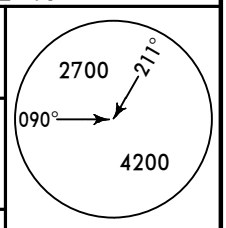
MANTA Approach	MANTA Tower	Ground
122.7	118.7	121.9

LOC ILM	Final Apch Crs	GS D6.0 ILM	ILS DA(H)	Apt Elev 48′ Rwy 48′
110.1	238°	1900′(1852′)	290′(242′)	

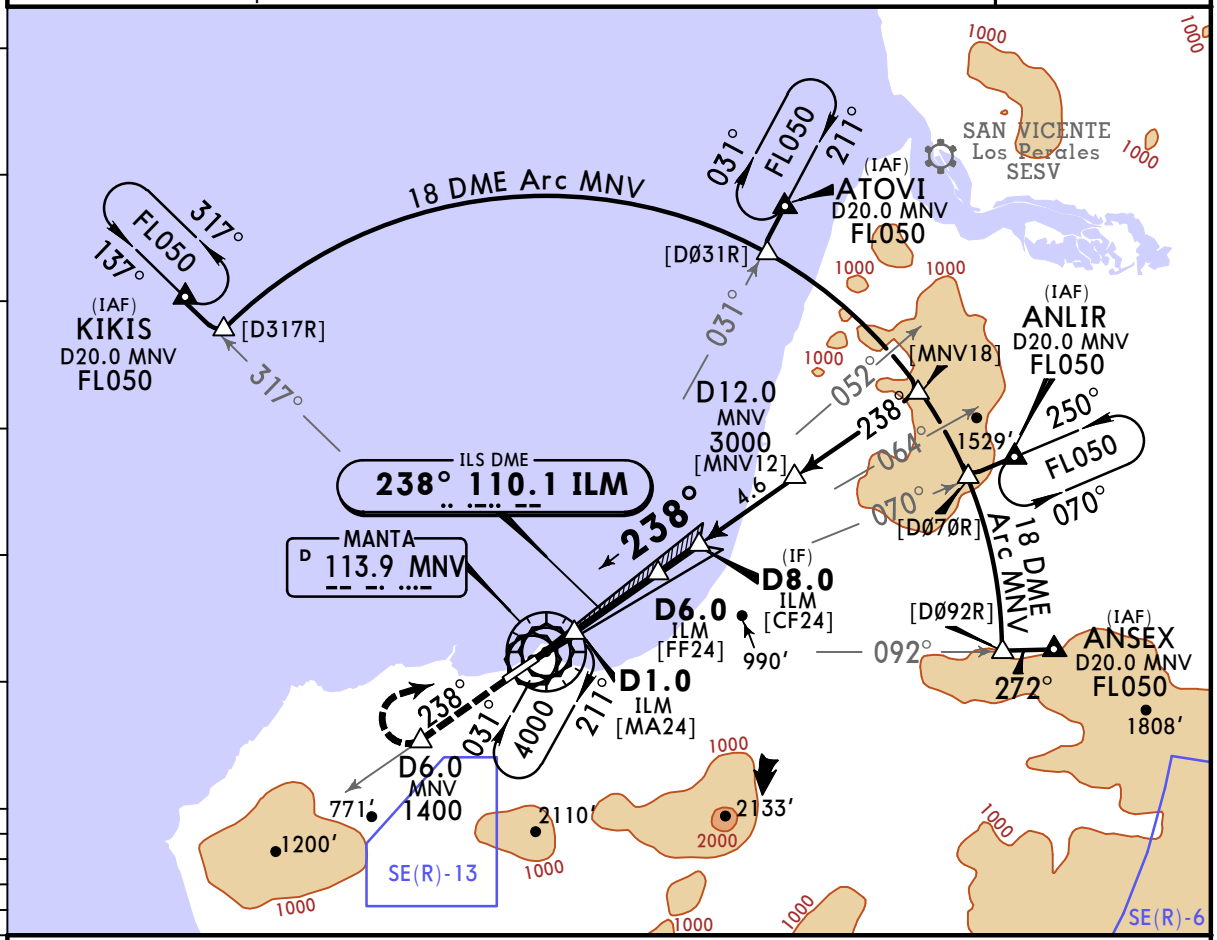
MISSED APCH: Climb on course 238° (MNV VOR R-238) to 1400′ within D6.0 MNV VOR, climbing RIGHT turn to 4000′ and join hold or proceed in accordance with ATC instructions.

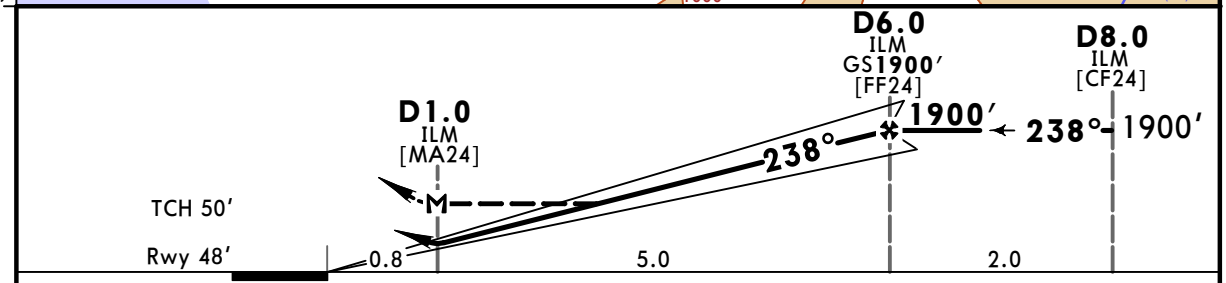
Alt Set: hPa Rwy Elev: 2 hPa Trans level: By ATC Trans alt: 4000′

MNV VOR and DME required.



MSA MNV VOR





Gnd speed-Kts		70	90	100	120	140	160
GS	3.00°	372	478	531	637	743	849
MAP at D1.0 ILM or D6.0 ILM to MAP	5.0	4:17	3:20	3:00	2:30	2:09	1:53

HIALS REIL PAPI-L — 1400′ on 238° course within D6.0 MNV

PANS OPS

	STRAIGHT-IN LANDING RWY24 Missed Apch Climb Gradient mim 3.3%				CIRCLE-TO-LAND RWY06	
	ILS DA(H) 290′(242′)		LOC (GS out) MDA(H) 340′(292′)			
	FULL	ALS out		ALS out	Max Kts	MDA(H)
A	800m	1300m	800m	1600m	100	760′(712′) -3600m
B					135	
C					180	
D			1200m		205	

CHANGES: Bearings, missed approach, recommended alt, MSA, proc title, CNF.

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SEMT/MEC
ELOY ALFARO INTL

JEPPESEN

21 FEB 20 (13-1) MISSED APCH CLIMB GRADIENT MIM 3.3%

MANTA, ECUADOR
VOR 1Z Rwy 24

BRIEFING STRIP ™

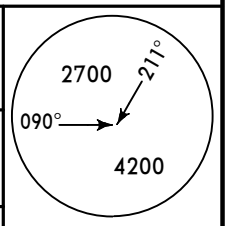
MANTA Approach	MANTA Tower	Ground
122.7	118.7	121.9

VOR MNV	Final Apch Crs	D7.0	MDA(H)	Apt Elev 48′
113.9	238°	2200′(2152′)	340′(292′)	Rwy 48′

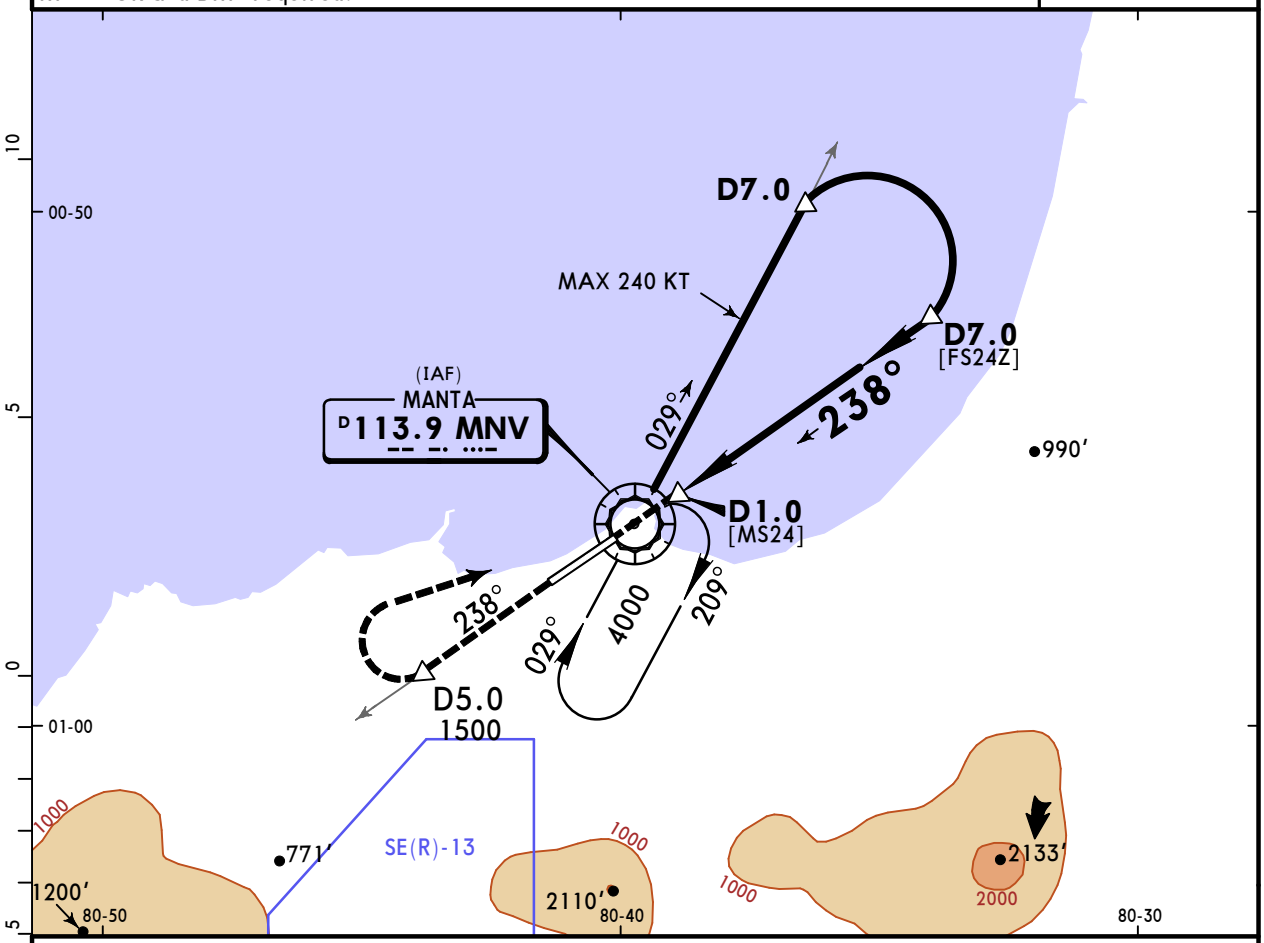
MISSED APCH: Climb on course 238° (MNV VOR R-238) to 1500′ within D5.0 MNV VOR, climbing RIGHT turn to 4000′ and join hold or proceed in accordance with ATC instructions.

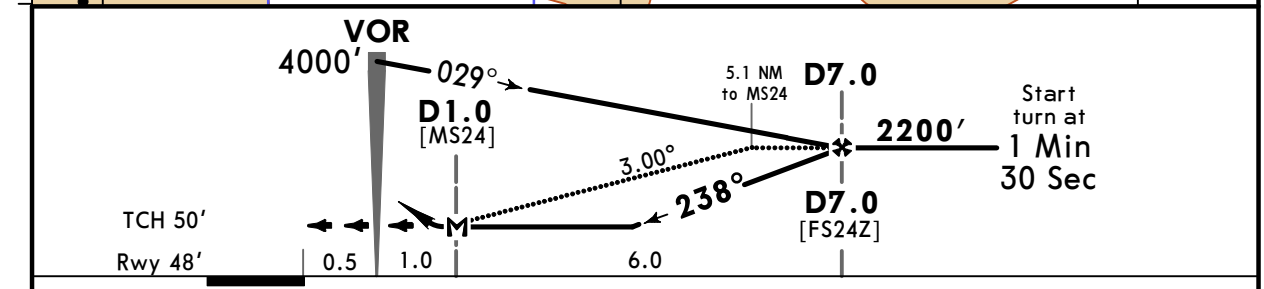
Alt Set: hPa Rwy Elev: 2 hPa Trans level: By ATC Trans alt: 4000′

MNV VOR and DME required.



MSA MNV VOR





Gnd speed-Kts		70	90	100	120	140	160
Descent Angle	3.00°	372	478	531	637	743	849
MAP at D1.0 or FAF to MAP	6.0	5:09	4:00	3:36	3:00	2:34	2:15

HIALS
REIL
PAPI-L

1500′ on 238° course within D5.0

STRAIGHT-IN LANDING RWY 24			CIRCLE-TO-LAND RWY 06	
Missed Apch Climb Gradient mim 3.3%				
MDA(H) 340′(292′)		ALS out	Max Kts	MDA(H)
A	800m	1600m	100	760′(712′) -3600m
B			135	
C			180	
D	1600m		205	

PANS OPS

CHANGES: Bearings, missed approach, recommended alt, MSA, proc title.

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SEMT/MEC
ELOY ALFARO INTL

JEPPESEN 21 FEB 20 (13-2)

MISSED APCH CLIMB GRADIENT MIM 3.3%

MANTA, ECUADOR
VOR 1Y Rwy 24

BRIEFING STRIP ™

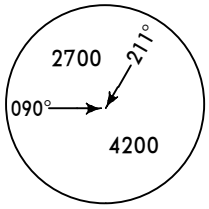
MANTA Approach	MANTA Tower	Ground
122.7	118.7	121.9

VOR MNV	Final Apch Crs	D6.0	MDA(H)	Apt Elev 48′
113.9	238°	1900′ (1852′)	340′ (292′)	Rwy 48′

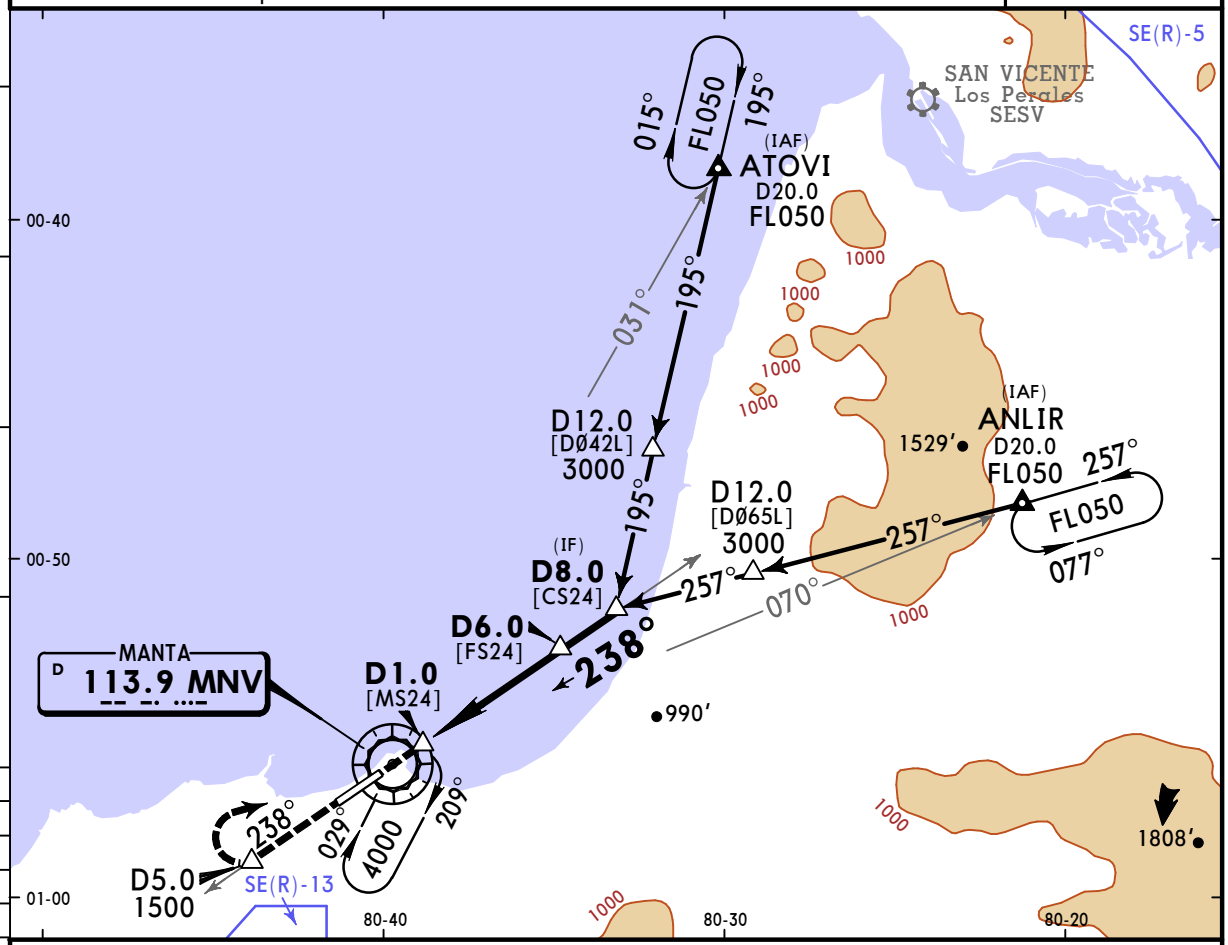
MISSED APCH: Climb on course 238° (MNV VOR R-238) to 1500′ within D5.0 MNV VOR, climbing RIGHT turn to 4000′ and join hold or proceed in accordance with ATC instructions.

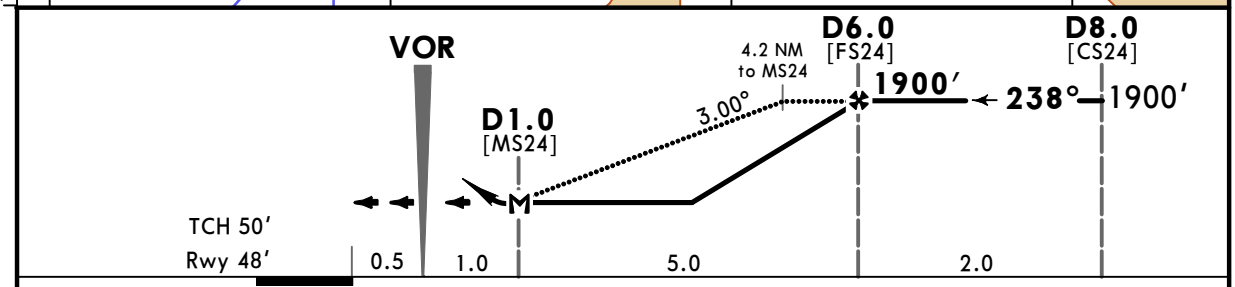
Alt Set: hPa Rwy Elev: 2 hPa Trans level: By ATC Trans alt: 4000′

MNV VOR and DME required.



MSA MNV VOR





Gnd speed-Kts		70	90	100	120	140	160
Descent Angle	3.00°	372	478	531	637	743	849
MAP at D1.0 or FAF to MAP	5.0	4:17	3:20	3:00	2:30	2:09	1:53

HIALS
REIL
PAPI-L

1500′ ↑ on 238° course within D5.0

STRAIGHT-IN LANDING RWY 24		CIRCLE-TO-LAND RWY 06	
Missed Apch Climb Gradient Mim 3.3%			
MDA(H) 340′ (292′)			
	ALS out	Max Kts	MDA(H)
A	800m	100	760′ (712′) - 3600m
B		135	
C		180	
D	1600m	205	

PANS OPS

CHANGES: Bearings, missed approach, recommended alt, MSA, proc title, CNF.

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SEMT/MEC
ELOY ALFARO INTL

JEPPESEN
6 MAR 20 (13-3)

MISSED APCH CLIMB GRADIENT MIM 3.3%

MANTA, ECUADOR
VOR 1X Rwy 24

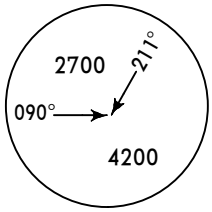
BRIEFING STRIP™

MANTA Approach	MANTA Tower	Ground
122.7	118.7	121.9

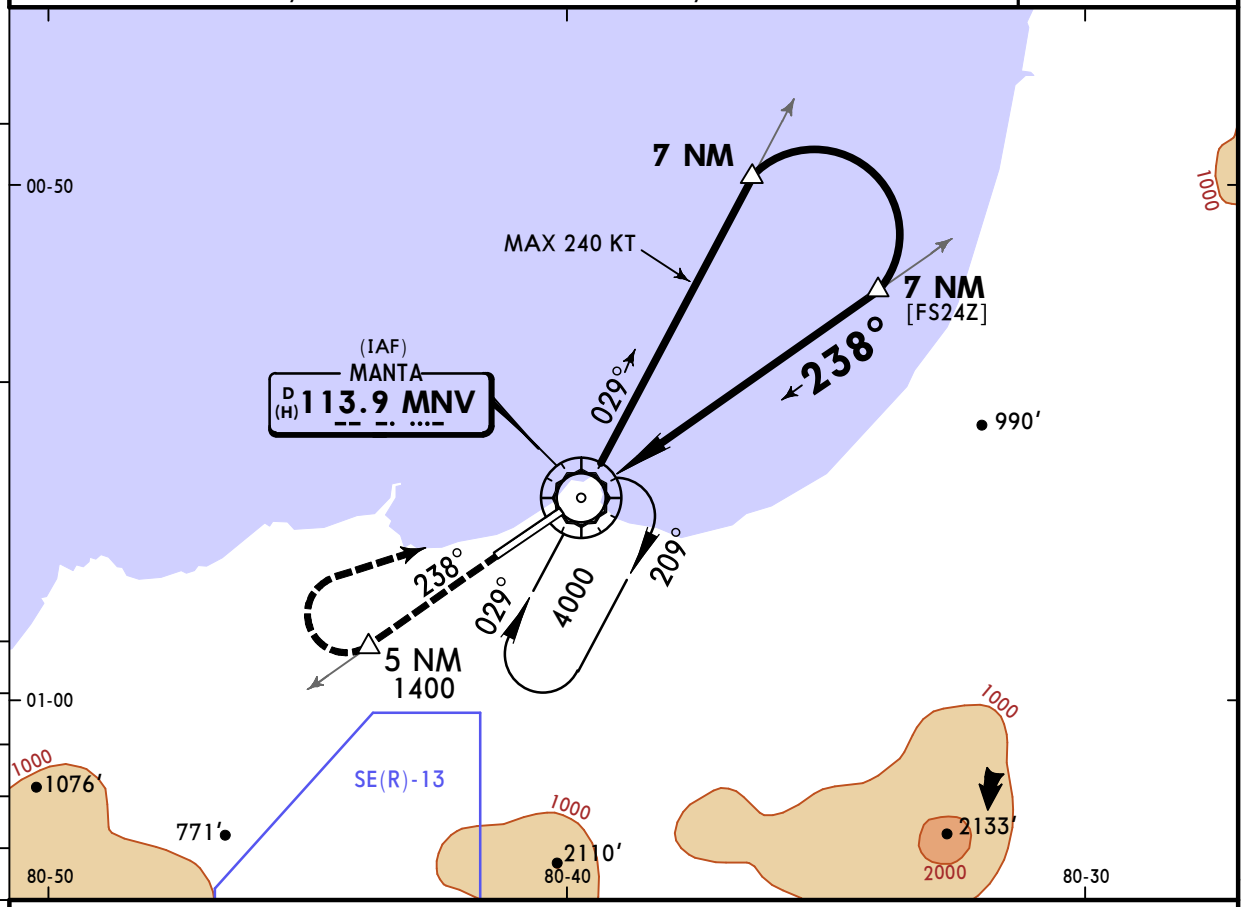
VOR MNV	Final Apch Crs	No FAF	MDA(H)	Apt Elev 48′ Rwy 48′
113.9	238°		400′ (352′)	

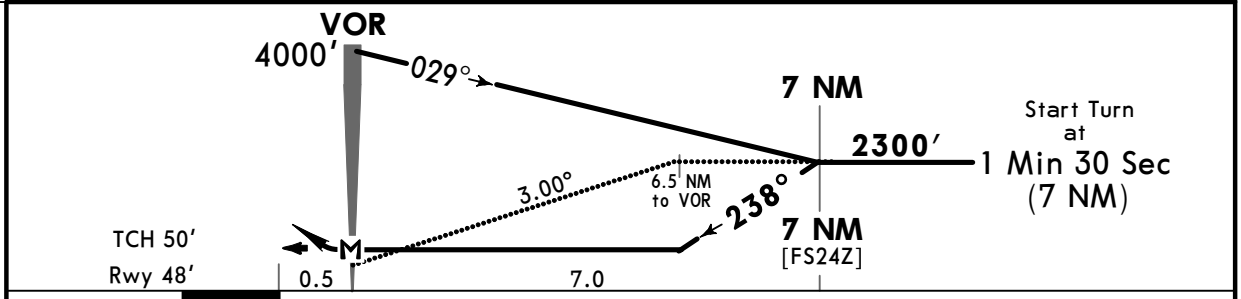
MISSED APCH: Climb on course 238° (MNV VOR R-238) to 1400′ within 5 NM MNV VOR, climbing RIGHT turn to 4000′ and join hold or proceed in accordance with ATC instructions.

Alt Set: hPa Rwy Elev: 2 hPa Trans level: By ATC Trans alt: 4000′



MSA MNV VOR





Gnd speed-Kts	70	90	100	120	140	160
Descent Angle 3.00°	372	478	531	637	743	849
MAP at VOR						

HIALS
REIL
PAPI-L

1400′ on 238° course within 5 NM

STRAIGHT-IN LANDING RWY 24			CIRCLE-TO-LAND RWY 06	
Missed Apch Climb Gradient Mim 3.3%				
MDA(H) 400′ (352′)		ALS out	Max Kts	MDA(H)
A	900m	1600m	100	760′ (712′) - 3600m
B			135	
C			180	
D	1600m		205	

PANS OPS

CHANGES: None.

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SEMT/MEC
ELOY ALFARO INTL

JEPPESEN

6 MAR 20 (13-4)

MISSED APCH CLIMB GRADIENT MIM 3.3%

MANTA, ECUADOR
VOR 1W Rwy 24

BRIEFING STRIP ™

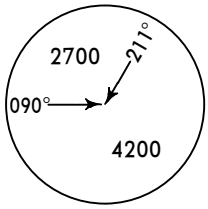
MANTA Approach	MANTA Tower	Ground
122.7	118.7	121.9

VOR MNV	Final Apch Crs	D6.0	MDA(H)	Apt Elev 48′ Rwy 48′
113.9	238°	1900′(1852′)	340′(292′)	

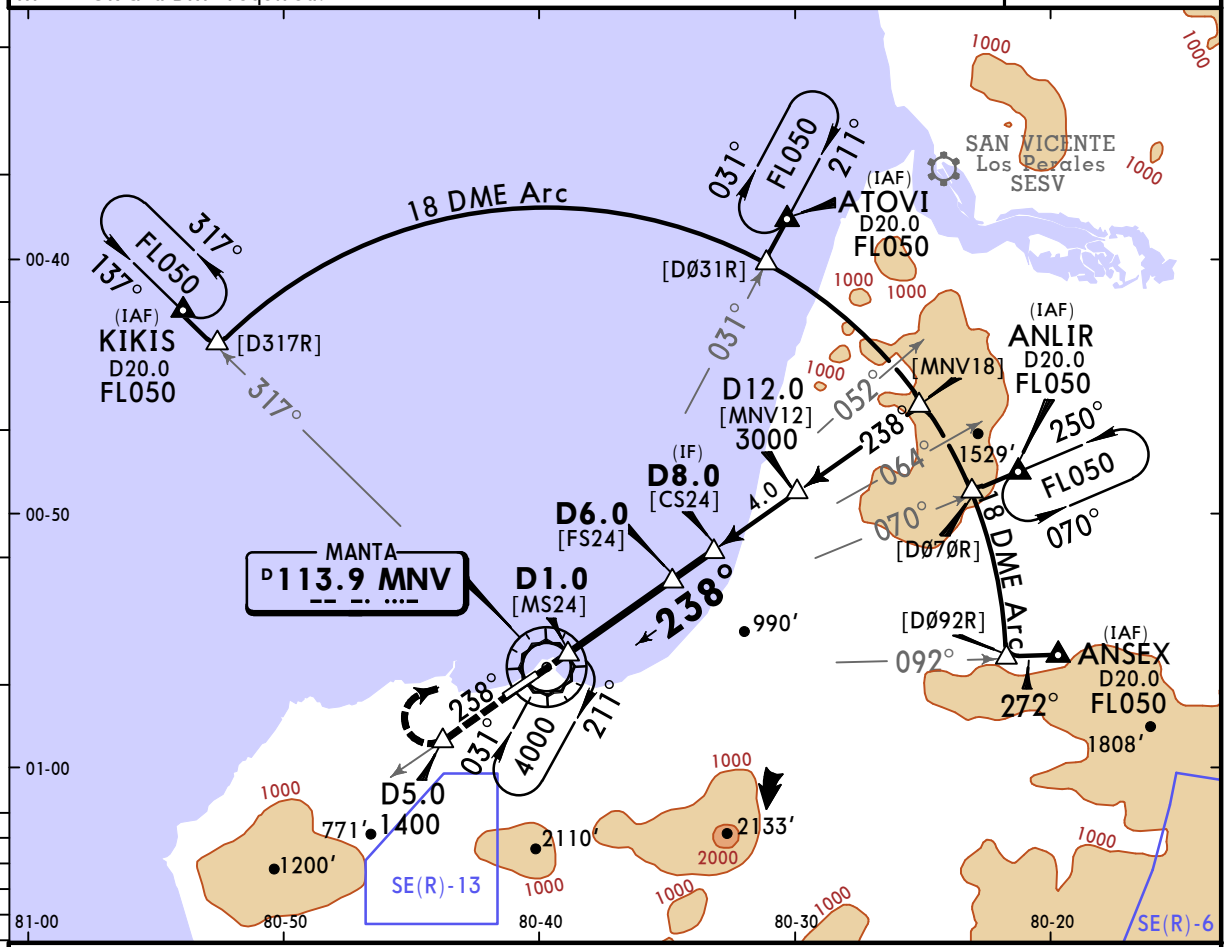
MISSED APCH: Climb on course 238° (MNV VOR R-238) to 1400′ within D5.0 MNV VOR, climbing RIGHT turn to 4000′ and join hold or proceed in accordance with ATC instructions.

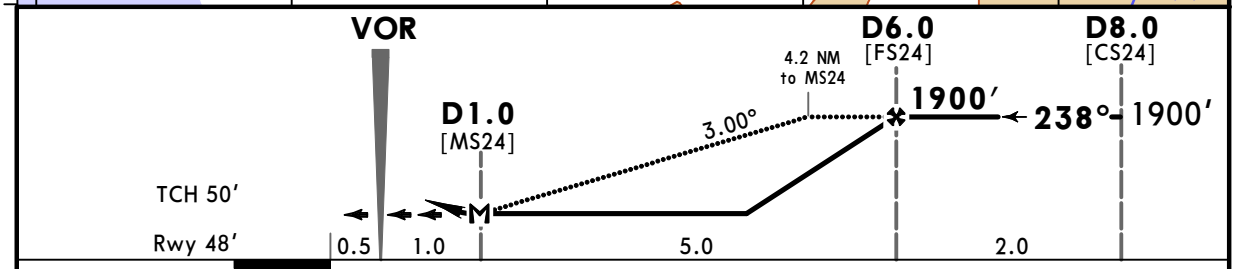
Alt Set: hPa Rwy Elev: 2 hPa Trans level: By ATC Trans alt: 4000′

MNV VOR and DME required.



MSA MNV VOR





Gnd speed-Kts		70	90	100	120	140	160
Descent Angle	3.00°	372	478	531	637	743	849
MAP at D1.0 or FAF to MAP	5.0	4:17	3:20	3:00	2:30	2:09	1:53

HIALS
REIL
PAPI-L

1400′ on 238° course within D5.0

STRAIGHT-IN LANDING RWY24

Missed Apch Climb Gradient mim 3.3%

MDA(H) 340′(292′)

PANS OPS

		ALS out
A	800m	1600m
B		
C		
D	1600m	

CIRCLE-TO-LAND RWY06

Max Kts	MDA(H)
100	760′(712′)-3600m
135	
180	
205	

CHANGES: ANLIR holding altitude.

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SEMT/MEC
ELOY ALFARO INTL

JEPPESEN

21 FEB 20 (16-1)

MANTA, ECUADOR
MISSED APCH CLIMB GRADIENT MIM 3.3%
NDB 1 Rwy 24

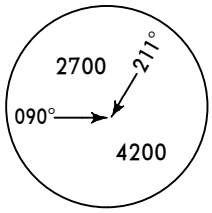
BRIEFING STRIP ™

MANTA Approach	MANTA Tower	Ground
122.7	118.7	121.9

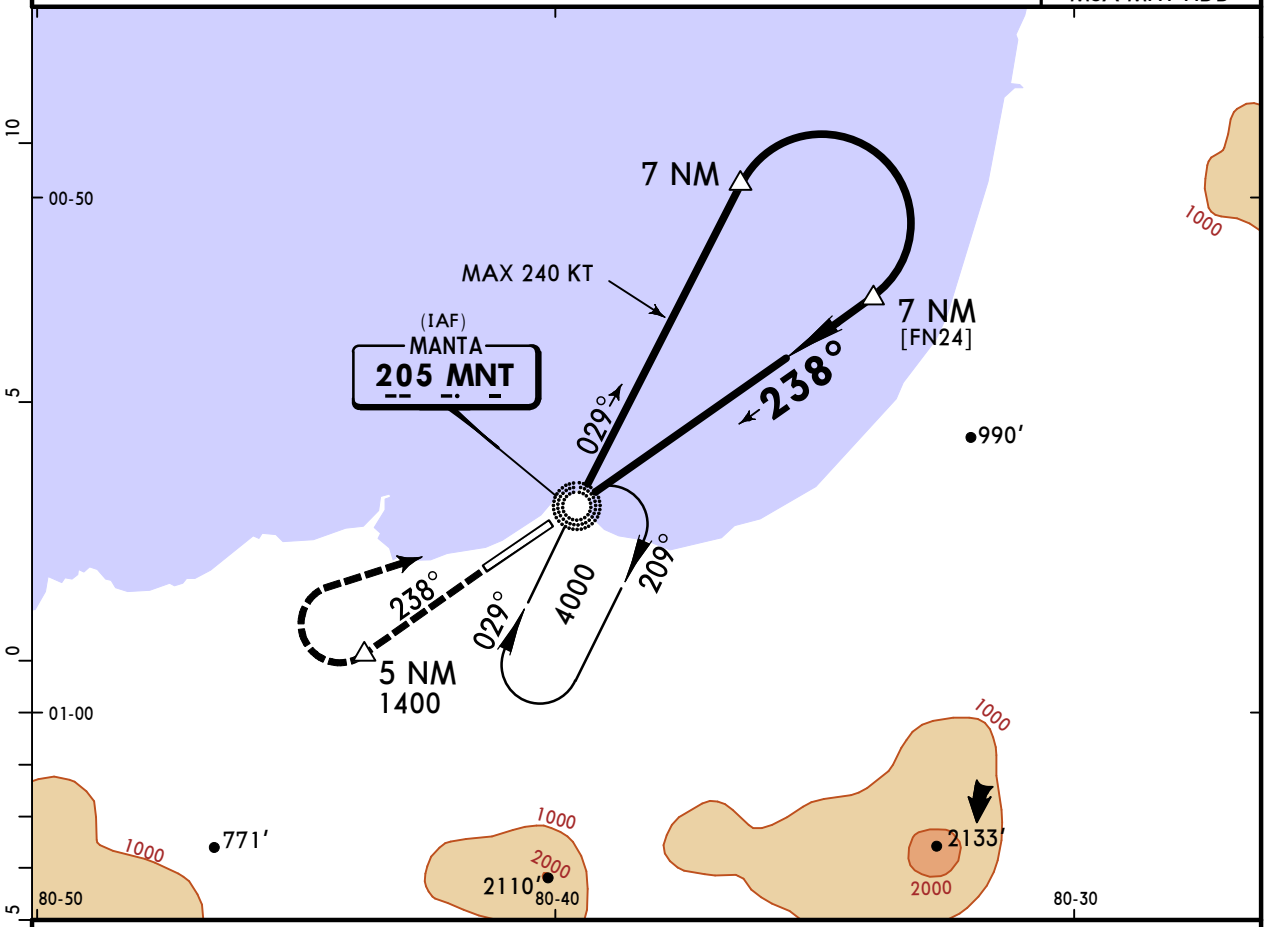
NDB MNT	Final Apch Crs	No FAF	MDA(H)	Apt Elev 48′ Rwy 48′
205	**238°**		**400′**(352′)	

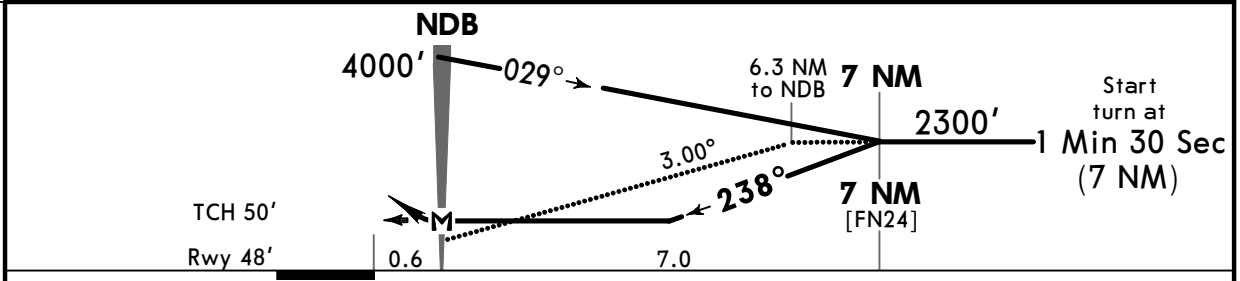
MISSED APCH: Climb on course 238° to 1400′ within 5 NM of MNT NDB, climbing RIGHT turn to 4000′ and join hold or proceed in accordance with ATC instructions.

Alt Set: hPa Rwy Elev: 2 hPa Trans level: By ATC Trans alt: 4000′



MSA MNT NDB





Gnd speed-Kts		70	90	100	120	140	160
Descent Angle	3.00°	372	478	531	637	743	849
MAP at NDB							

HIALS
REIL
PAPI-L

1400′ on **238°** course within **5 NM**

PANS OPS

	STRAIGHT-IN LANDING RWY **24** Missed Apch Climb Gradient mim 3.3% MDA(H) **400′**(352′)		CIRCLE-TO-LAND RWY **06**	
		ALS out	Max Kts	MDA(H)
A	900m	1600m	100	760′(712′) -3600m
B			135	
C			180	
D	1600m		205	

CHANGES: Procedure title, missed approach, bearing, MSA.

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