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**BUREAU NOTAM INTERNATIONAL
 DE L'AFRIQUE CENTRALE**

B.P. 660 BRAZZAVILLE - CONGO

CAMEROUN – CENTRAFRIQUE – CONGO – GABON – GUINEE ÉQUATORIALE – SAO TOME – TCHAD

AIRAC AIP SUP

NR 82/A/25FC

04 SEP 2025

FRANCEVILLE/M'VENGUE - FOON

MISE A JOUR DES PROCEDURES DE VOLS FLIGHT PROCEDURES UPDATE

Effective date	30 OCT 2025
Validity	PERM

Ce supplément a pour objectif d'informer les usagers de la mise à jour des procédures de vols de l'aérodrome de Franceville/M'vengué.

This supplement is published to inform users of the update of flight procedures of Franceville/M'vengué aerodrome.

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS WAYPOINTS LIST TO BE REMOVED FROM AIP

WAYPOINT	COORDINATES		STATUS
ARKUS	01°31'58.80"S	013°14'38.95"E	IAF
LIGAS	01°26'00.65"S	013°22'40.93"E	IAF
MOLUG	01°52'43.59"S	013°29'52.36"E	IAF
BISIL	01°46'45.38"S	013°37'54.37"E	IAF

WAYPOINTS LIST TO BE INSERTED INTO AIP

WAYPOINT	COORDINATES		STATUS
LUMPA	01°32'33.45"S	013°13'49.90"E	IAF
NELGA	01°25'23.67"S	013°23'28.27"E	IAF
RASEB	01°53'19.83"S	013°29'04.46"E	IAF
NUTEK	01°46'09.98"S	013°38'42.89"E	IAF
OVREL	01°26'37.62"S	013°30'12.75"E	IAF
MELIB	01°30'36.83"S	013°16'50.25"E	IAF/IF
DIPNI	01°40'05.74"S	013°13'41.04"E	IAF
ONLIX	01°50'08.48"S	013°19'33.80"E	IAF
LISAX	01°51'17.87"S	013°31'29.89"E	IAF/IF
TEBIM	01°42'07.39"S	013°39'17.05"E	IAF

AD2.24 FOON — AERODROMES CHARTS

	NEW CHARTS INSERTION New edition of IFR flight procedures	CHARTS WITHDRAWAL These charts will be withdrawn to eAIP, and will be no more available.
	– 07AD2-FOON-IAC-RNP15 ; – 07AD2-FOON-IAC-RNP15-DATA; – 07AD2-FOON-IAC-RNP33 ; – 07AD2-FOON-IAC-RNP33-DATA; – 07AD2-FOON-IAC-VORY15 ; – 07AD2-FOON-IAC-VORY33 ; – 07AD2-FOON-IAC-VORZ15 ; – 07AD2-FOON-IAC-VORZ33 ; – 07AD2-FOON-IAC-ILSY15 ; – 07AD2-FOON-IAC-ILSY15-DATA – 07AD2-FOON-IAC-ILSZ15	– 07AD2-FOON-IAC-RNAV15 – 07AD2-FOON-IAC-RNAV33 – 07AD2-FOON-IAC-ILSY15 – 07AD2-FOON-IAC-ILSZ15 – 07AD2-FOON-IAC-VORZY15 – 07AD2-FOON-IAC-VORZY33

***CE SUP AIP COMPORTE 02 PAGE ET 11 ANNEXES /
THIS AIP SUP HAS 02 PAGE AND 11 ANNEXES***

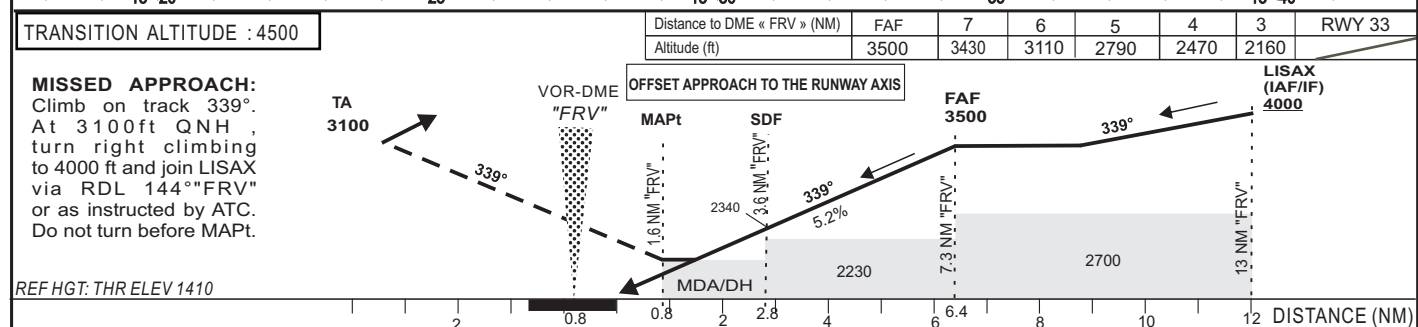
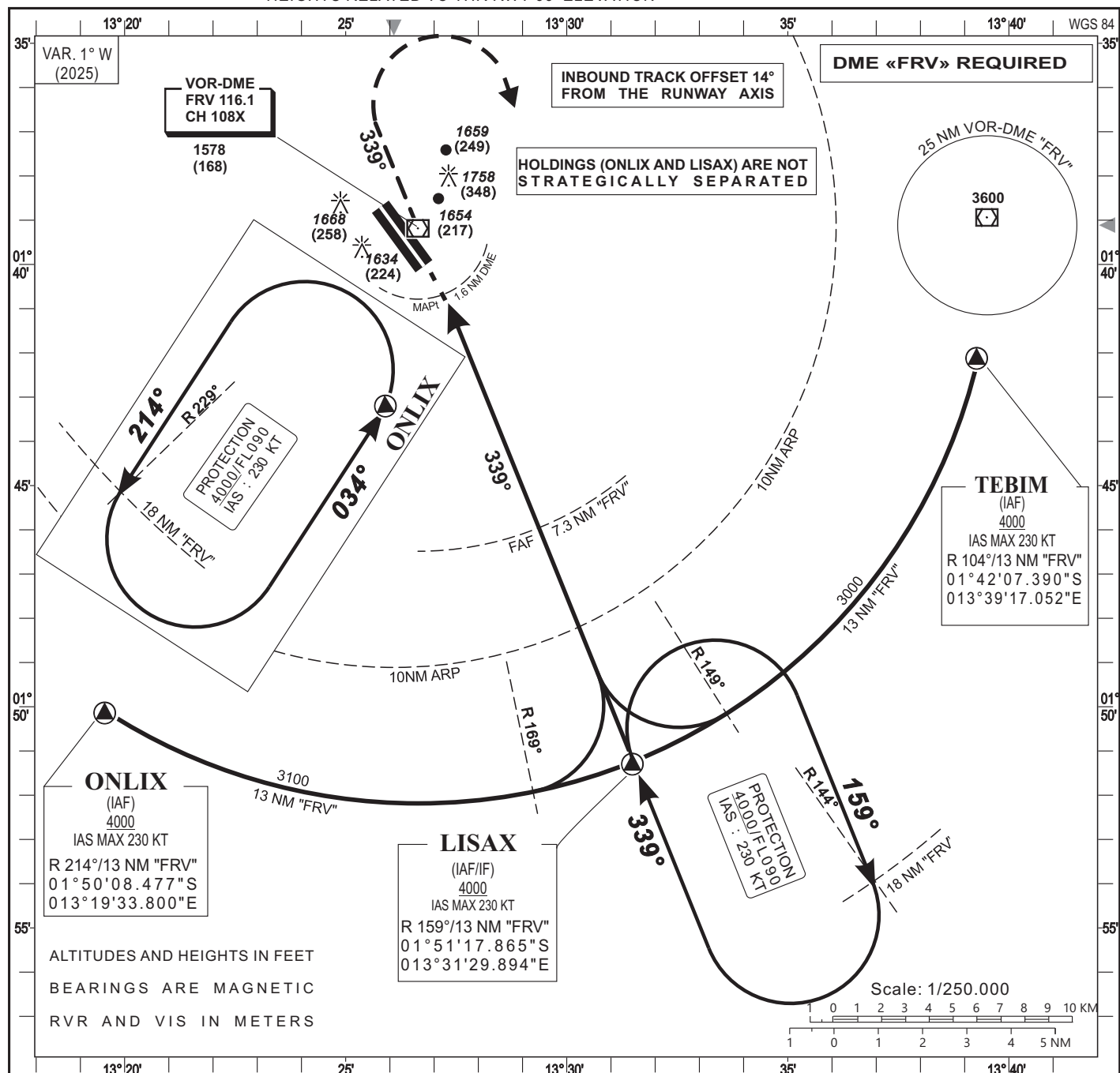
INSTRUMENT APPROACH CHART CATEGORIES A-B-C-D

AERODROME ELEV : 1450
THR RWY 33 ELEV : 1410

FRANCEVILLE TWR :118.2

FRANCEVILLE / Mvengué (FOON)
VOR Z RWY 33
IDENT VOR « FRV » FREQ 116.1

HEIGHTS RELATED TO THR RWY 33 ELEVATION



CAT	VOR-DME				CIRCLING (*)				RVR FOR TAKE-OFF : CATA - B - C-D: 400	
	OCA (OCH)	MDA	MDH	RVR	OCA (OCH)	MDA	MDH	VIS	Timing	FAF / THR 6.4 NM
A	2127 (717)	2130 (720)	1500		2053 (603)	2060 (610)	1500		90	4 Min 16
B	2127 (717)	2130 (720)	1500		2205 (755)	2210 (760)	1600		100	3 Min 50
C	2127 (717)	2130 (720)	2000		2441 (991)	2450 (1000)	2400		110	3 Min 29
D	2127 (717)	2130 (720)	2000		2441 (991)	2450 (1000)	3600		120	3 Min 12
									130	2 Min 57

(*) Daytime only. OCH and MDH AAL

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AERONAUTICAL INFORMATION SERVICE - ASECNA

07AD2-FOON-IAC-VORZ33

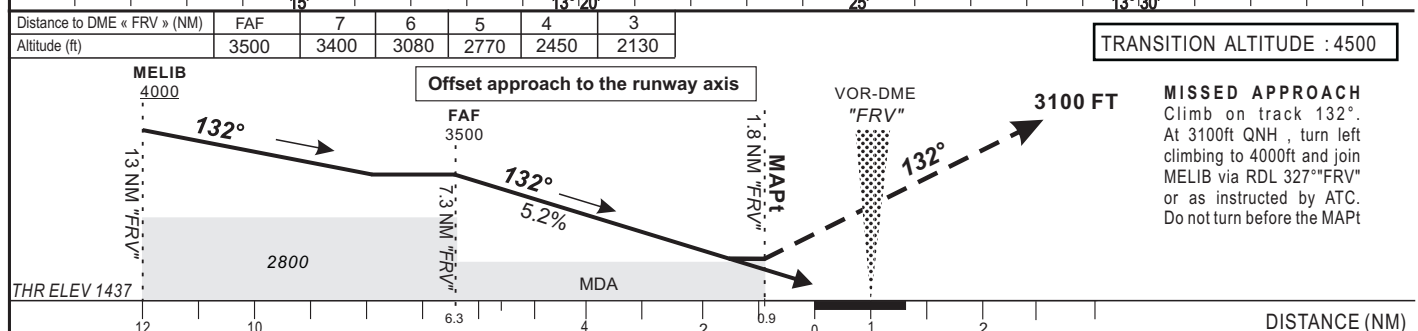
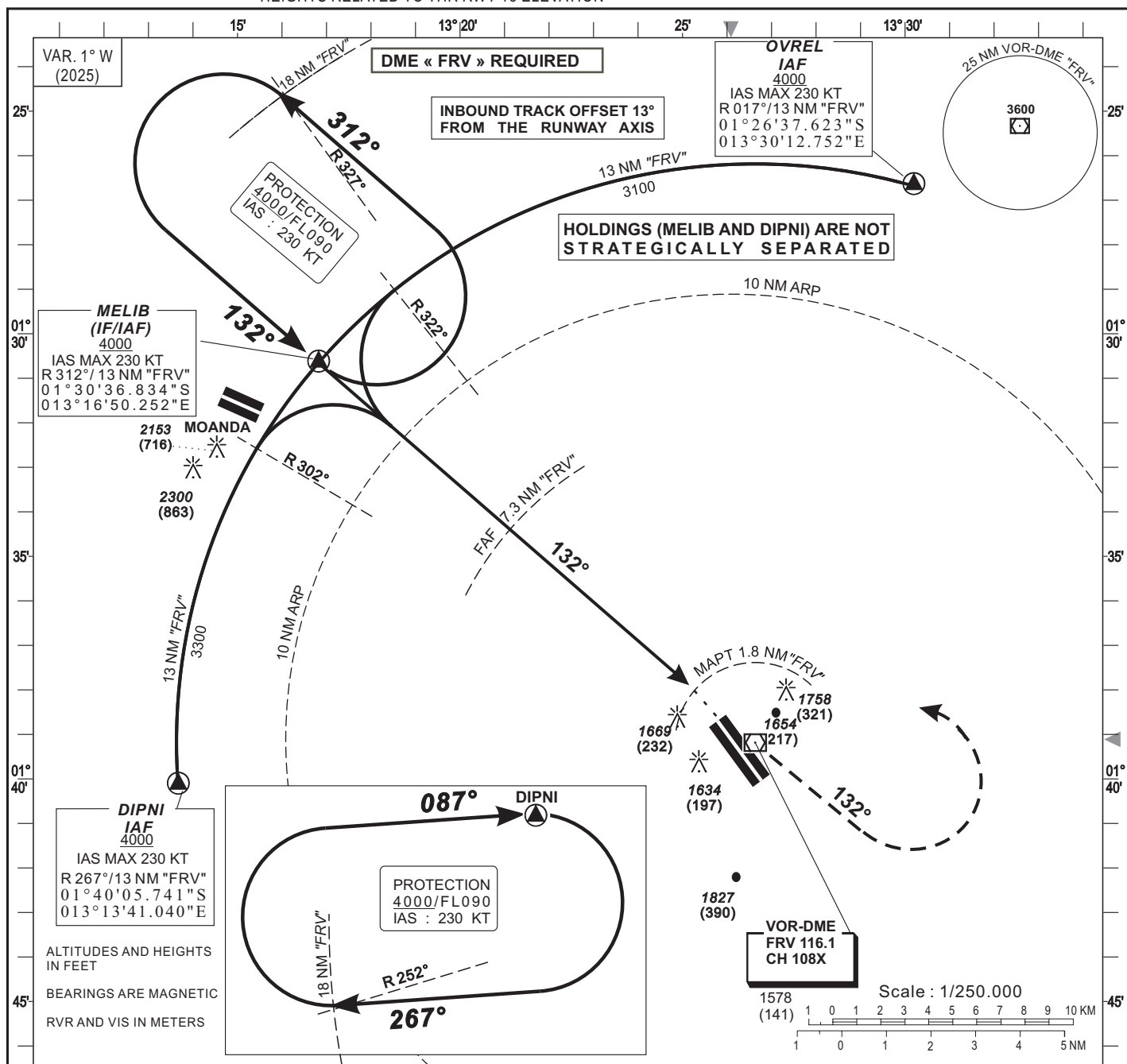
**INSTRUMENT
APPROACH CHART
CATEGORIES A-B-C-D**

AERODROME ELEV : 1450
THR RWY 15 ELEV : 1437

FRANCEVILLE TOWER : 118.2

FRANCEVILLE / Mvengué (FOON)
VOR Z RWY 15
IDENT VOR « FRV » FREQ 116.1

HEIGHTS RELATED TO THR RWY 15 ELEVATION



NEW EDITION	CAT	VOR-DME				CIRCLING (3)				RVR FOR TAKE-OFF : CATA - B - C-D: 400	
		OCA (OCH)	MDA	MDH	RVR(1)	RVR(2)	OCA (OCH)	MDA	MDH	VIS	
	A	1900 (463)	1900 (470)	1000	1500	2053 (603)	2060 (610)	1500			
	B	1900 (463)	1900 (470)	1200	1500	2205 (755)	2210 (760)	1600			
	C	1900 (463)	1900 (470)	1200	2000	2441 (991)	2450 (1000)	2400			
	D	1900 (463)	1900 (470)	1600	2000	2441 (991)	2450 (1000)	3600			

Notes :

- (1) With approach line
- (2) Without approach line
- (3) Daytime only. OCH and MDH AAL

Timing		FAF / THR 6.3 NM	
KT	MIN SEC	KT	MIN SEC
90	4 Min 12	140	2 Min 42
100	3 Min 47	150	2 Min 31
110	3 Min 26	160	2 Min 22
120	3 Min 09	170	2 Min 13
130	2 Min 54	180	2 Min 06

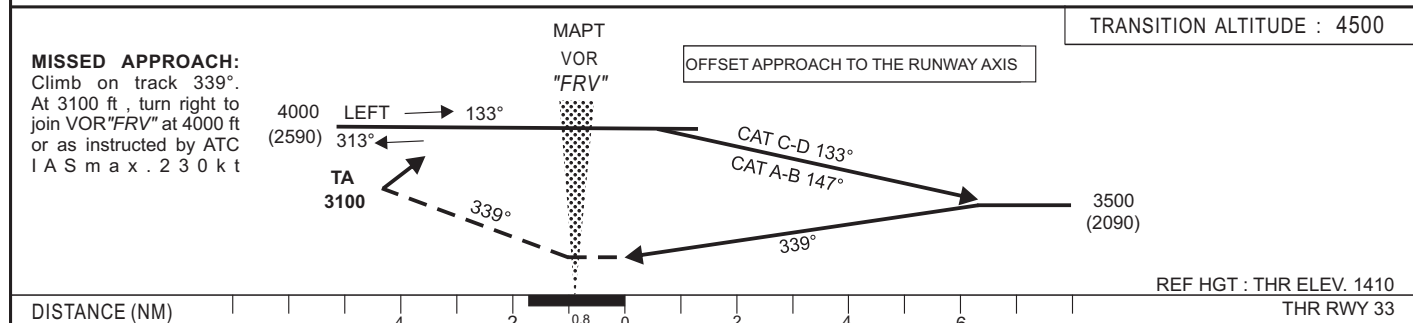
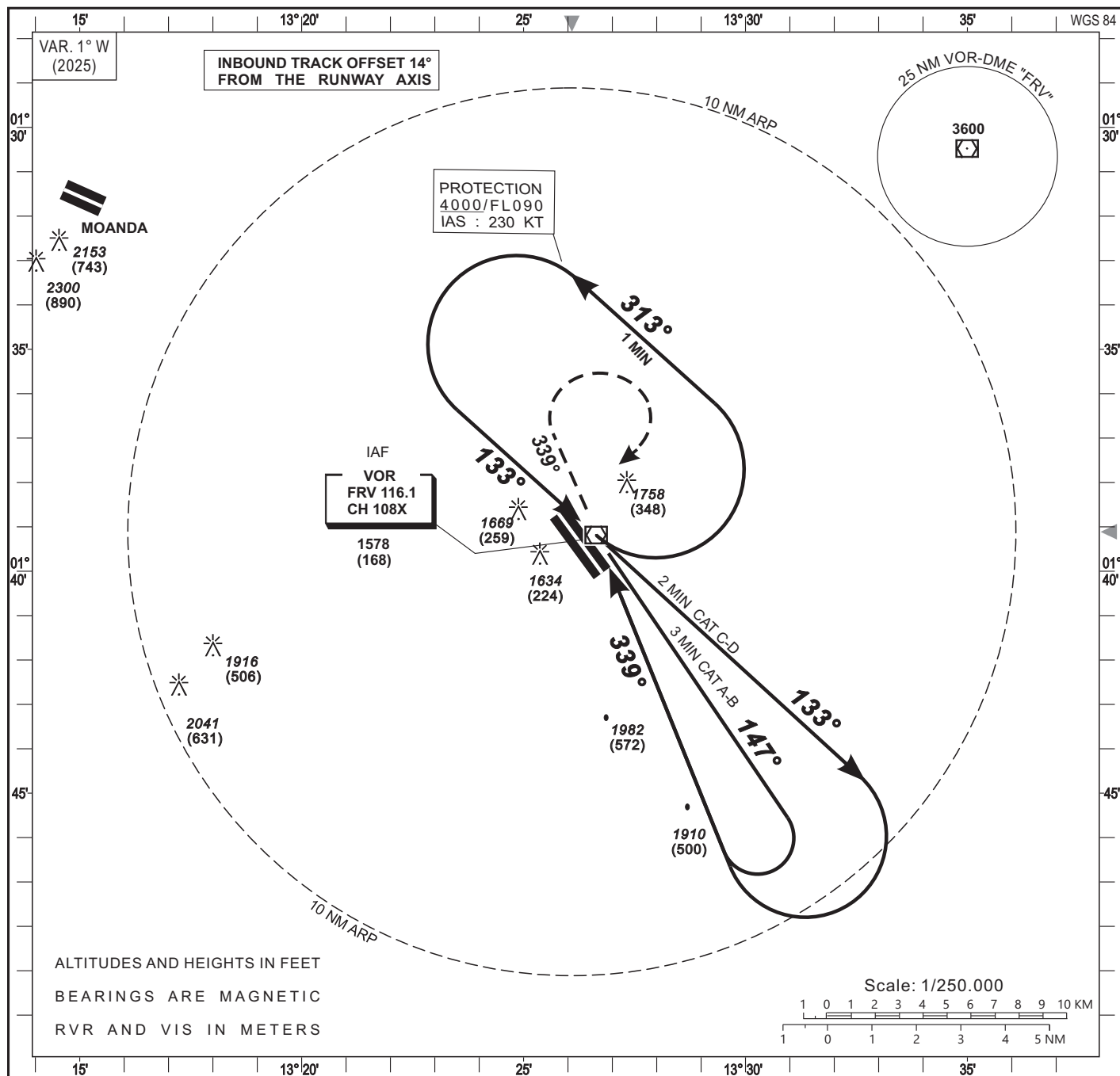
INSTRUMENT APPROACH CHART CATEGORIES A-B-C-D

AERODROME ELEV : 1450
THR RWY 33 ELEV : 1410

FRANCEVILLE TOWER : 118.2

FRANCEVILLE / MVENGUÉ (FOON)
VOR Y RWY 33
IDENT VOR « FRV » FREQ 116.1

HEIGHTS RELATED TO THR RWY33 ELEVATION



CAT	VOR				CIRCLING(*)				RVR FOR TAKE OFF CATA - B - C-D: 400																																				
	OCA (OCH)	MDA	MDH	RVR	OCA (OCH)	MDA	MDH	VIS																																					
A	2270 (860)	2270 (860)	1500	2053 (603)	2060 (610)	1500	Temps <table><tr><th>KT</th><th>MIN</th><th>SEC</th><th>KT</th><th>MIN</th><th>SEC</th></tr><tr><td>90</td><td></td><td></td><td>140</td><td></td><td></td></tr><tr><td>100</td><td></td><td></td><td>150</td><td></td><td></td></tr><tr><td>110</td><td></td><td></td><td>160</td><td></td><td></td></tr><tr><td>120</td><td></td><td></td><td>170</td><td></td><td></td></tr><tr><td>130</td><td></td><td></td><td>180</td><td></td><td></td></tr></table>			KT	MIN	SEC	KT	MIN	SEC	90			140			100			150			110			160			120			170			130			180		
KT	MIN	SEC	KT	MIN	SEC																																								
90			140																																										
100			150																																										
110			160																																										
120			170																																										
130			180																																										
B	2270 (860)	2270 (860)	1500	2205 (755)	2210 (760)	1600																																							
C	2270 (860)	2270 (860)	2000	2441 (991)	2450 (1000)	2400																																							
D	2270 (860)	2270 (860)	2000	2441 (991)	2450 (1000)	3600																																							
Note : -: (*) Daytime only. OCH and MDH AAL																																													

NEW EDITION

30 OCTOBER 2025

AERONAUTICAL INFORMATION SERVICE - ASECNA

07AD2-FOON-IAC-VORY33

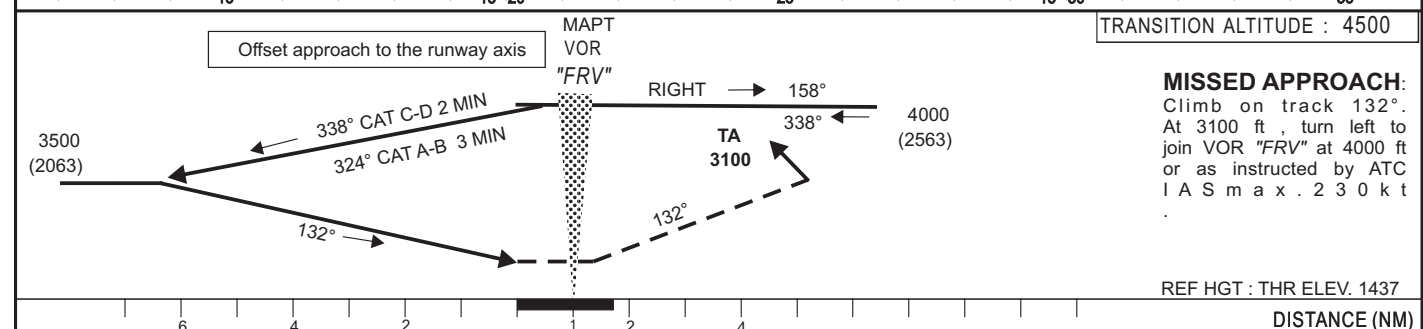
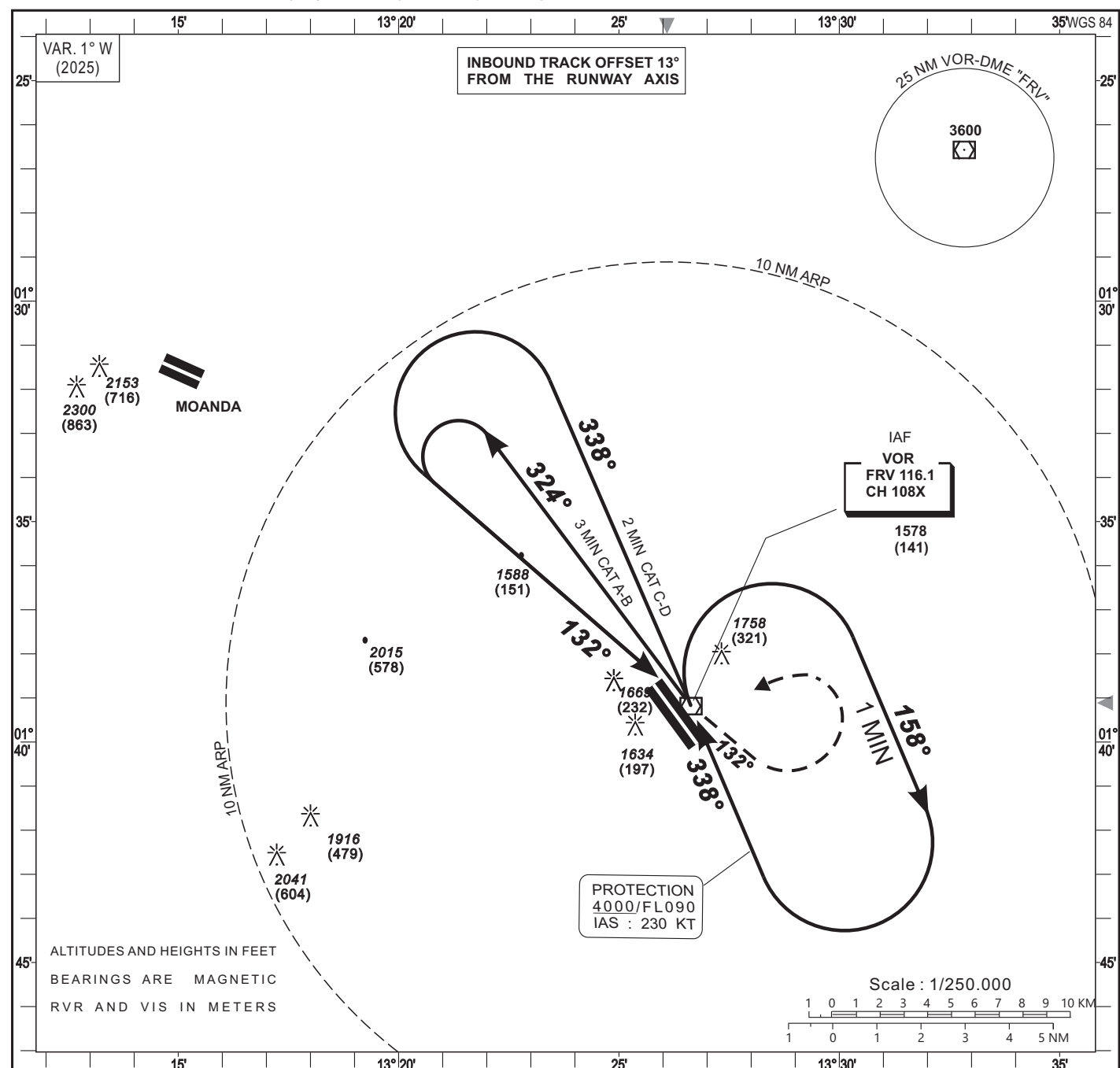
INSTRUMENT APPROACH CHART CATEGORIES A-B-C-D

AERODROME ELEV : 1450
THR RWY 15 ELEV : 1437

FRANCEVILLE TOWER : 118.2

FRANCEVILLE / Mvengué (FOON)
VORY RWY 15
IDENT VOR « FRV » FREQ 116.1

HEIGHTS RELATED TO THR RWY15 ELEVATION



NEW EDITION	CAT	VOR				CIRCLING(*)							RVR FOR TAKE OFF CATA - B - C-D: 400									
		OCA (OCH)	MDA	MDH	RVR	OCA (OCH)	MDA	MDH	VIS													
	A	1949 (512)	1950 (520)	1500	2053 (603)	2060 (610)	1500								Temps							
	B	1949 (512)	1950 (520)	1500	2205 (755)	2210 (760)	1600															
	C	1949 (512)	1950 (520)	2000	2441 (991)	2450 (1000)	2400								KT	MIN	SEC	KT	MIN	SEC		
	D	1949 (512)	1950 (520)	2000	2441 (991)	2450 (1000)	3600								90			140				
	NOTE :								(*) Daytime only.								100			150		
																	110			160		
																	120			170		
																	130			180		

30 OCTOBER 2025

AERONAUTICAL INFORMATION SERVICE - ASECNA

07AD2-FOON-IAC-VORY15

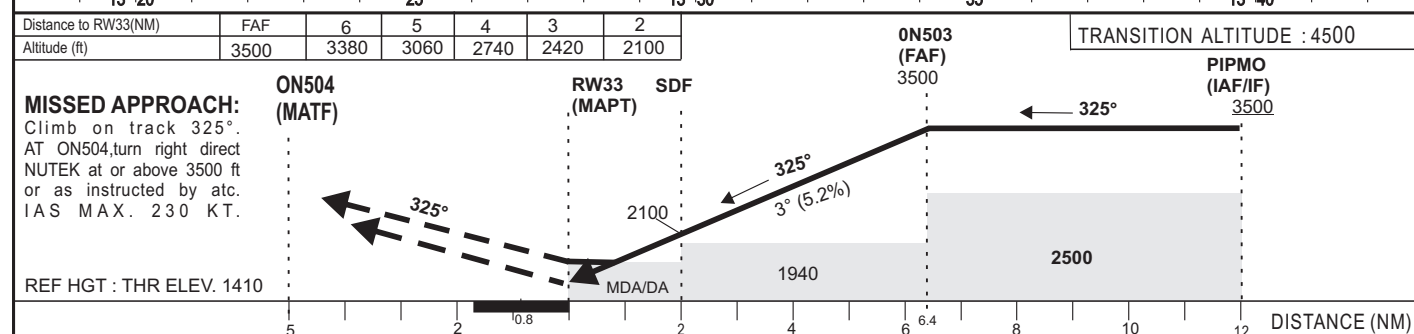
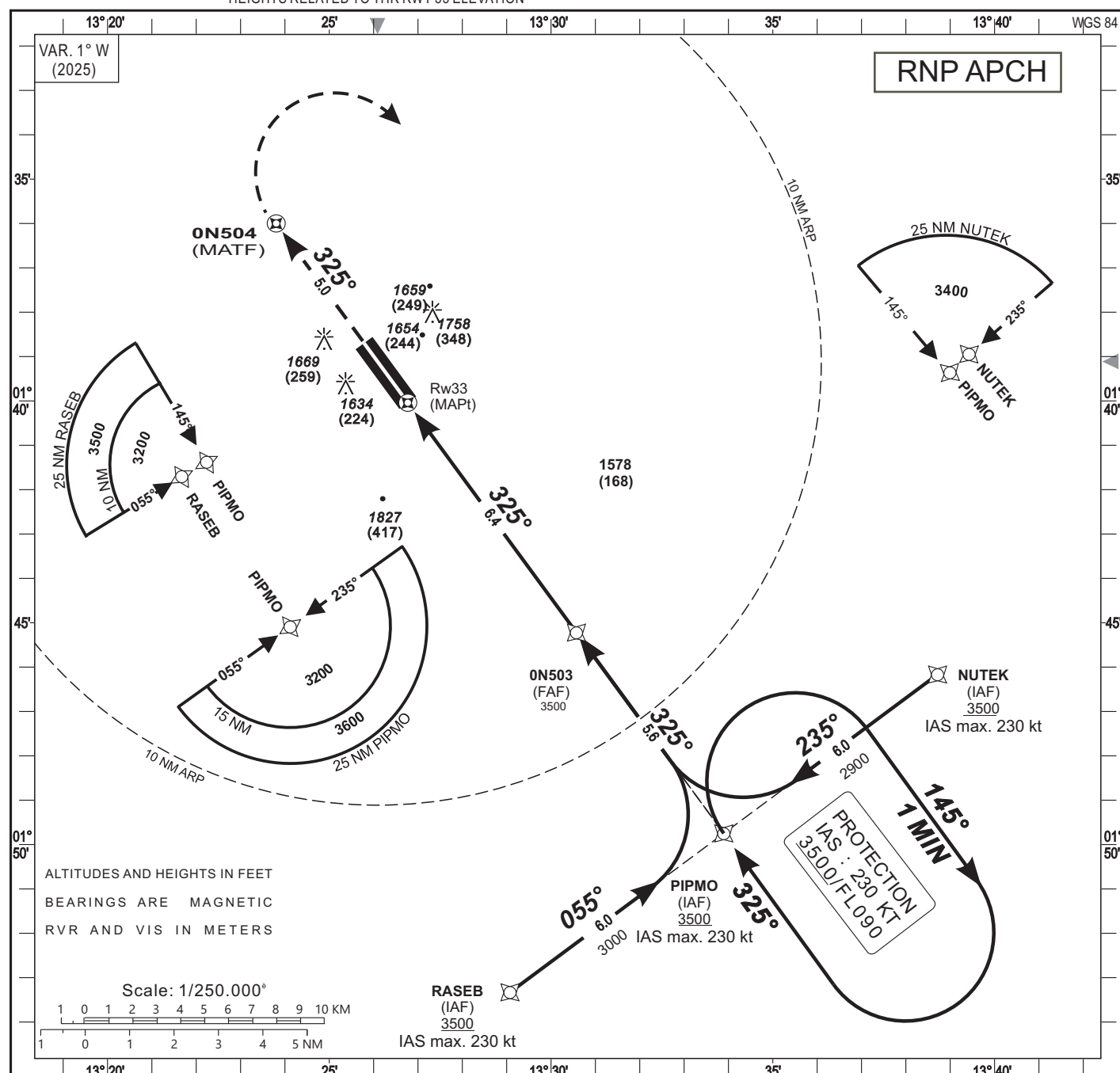
**INSTRUMENT
APPROACH CHART
CATEGORIES A-B-C-D**

AERODROME ELEV : 1450
THR RWY 33 ELEV : 1410

FRANCEVILLE TOWER : 118.2

**FRANCEVILLE / MVENGUÉ (FOON)
RNP RWY 33**

HEIGHTS RELATED TO THR RWY 33 ELEVATION



CAT	LNAV-VNAV				LNAV				CIRCLING(*)				RVR for take-off : CAT. A - B - C - D: 400	
	OCA (OCH)	DA	DH	RVR	OCA (OCH)	MDA	MDH	RVR	OCA (OCH)	MDA	MDH	VIS		
A	1670 (260)	1670 (260)	1200	1823 (413)	1830 (420)	1500	2053 (603)	2060 (610)	1500				Temps FAF / THR 6.4 NM	
B	1682 (272)	1690 (280)	1200	1823 (413)	1830 (420)	1500	2205 (755)	2210 (760)	1600					
C	1702 (292)	1710 (300)	1200	1823 (413)	1830 (420)	1800	2441 (991)	2450 (1000)	2400				KT	MIN SEC
D	1729 (319)	1730 (320)	1200	1823 (413)	1830 (420)	2000	2450 (991)	2450 (1000)	3600				140	2 Min 45
Notes : - (*) OCH and MDH AAL - Daytime only													100	3 Min 50
													150	2 Min 34
													110	3 Min 29
													160	2 Min 24
- Minimum temperature: 10° - RDH=15 m													120	3 Min 12
													170	2 Min 16
													130	2 Min 57
													180	2 Min 08

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AERONAUTICAL INFORMATION SERVICE - ASECNA

07AD2-FOON-IAC-RNP33

TABULAR DESCRIPTION

RNP RWY 33

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed limit (Kt)	VPA/ TCH	Navigation Specification
010	IF	NUTEK	—	—	—	—	—	+3500	-230	—	RNP APCH
020	TF	PIPMO	—	235(233.6)	—	6.0	—	+3500	-230	—	RNP APCH
010	IF	RASEB	—	—	—	—	—	+3500	-230	—	RNP APCH
020	TF	PIPMO	—	055(053.6)	—	6.0	—	+3500	-230	—	RNP APCH
010	IF	PIPMO	—	—	—	—	—	+3500	-230	—	RNP APCH
020	TF	ON503	—	325(323.6)	—	5.6	—	@3500	—	—	RNP APCH
030	TF	RW33	Y	325(323.6)	+1.0	6.4	—	@1460	—	-3.0/15	RNP APCH
010	IF	RW33	—	—	—	—	—	—	—	—	RNP APCH
020	CF	ON504	Y	325(323.6)	+1.0	5.0	—	—	-230	—	RNP APCH
030	DF	NUTEK	—	—	—	—	R	+3500	-230	—	RNP APCH
010	IF	PIPMO	—	—	—	—	—	+3500	-230	—	RNP APCH
020	HM	PIPMO	—	325(323.6)	—	—	R	+3500	-230	—	RNP APCH

WAYPOINTS LIST

RNP RWY 33

Waypoint Identifier	Coordinates	
RASEB	01°53'19.834"S	013°29'04.462"E
PIPMO	01°49'44.490"S	013°33'53.370"E
NUTEK	01°46'09.984"S	013°38'42.885"E
ON503	01°45'13.303"S	013°30'34.334"E
RW33	01°40'02.455"S	013°26'46.214"E
ON504	01°35'59.933"S	013°23'48.253"E

INSTRUMENT APPROACH CHART CATEGORIES A-B-C-D

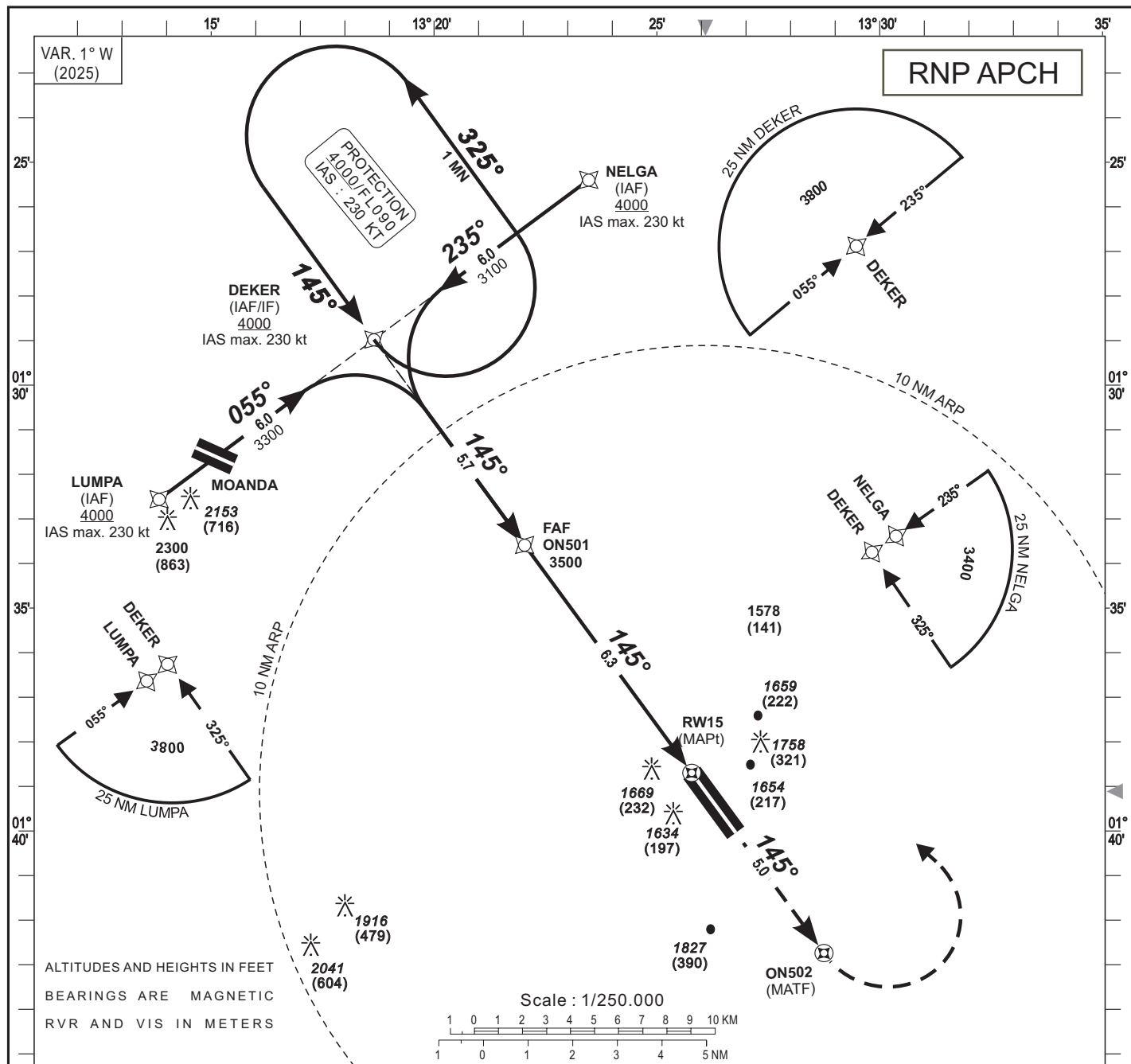
AERODROME ELEV : 1450
THR RWY 15 ELEV : 1437

FRANCEVILLE TOWER : 118.2

FRANCEVILLE / Mvengué (FOON)

RNP RWY 15

HEIGHTS RELATED TO THR RWY 15 ELEVATION



TRANSITION ALTITUDE : 4500

ON501 (FAP/FAF) 3500

Distance to RW15 (NM)	FAF	6	5	4	3	2	RW15
Altitude (ft)	3500	3400	3080	2770	2450	2130	

DEKER (IF/IAF) 4000

145°

2500

145°
5.2% (3.0°)

MDA/DA

ON502 (MATF)

145°

MISSED APPROACH
Climb on Track 145°. At ON502 turn left direct to NELGA at or above 4000 ft or as instructed by ATC. IAS max, 230 kt.

REF HGT: THR ELEV. 1437

DISTANCE (NM) 12 10 8 6.3 6 4 2 0 1 2 5

NEW EDITION	CAT	LNAV-VNAV				LNAV				CIRCLING (3)				RVR for take-off : CAT. A - B - C - D : 400					
		OCA (OCH)	DA	DH	RVR(1)	RVR(2)	OCA (OCH)	MDA	MDH	RVR(1)	RVR(2)	OCA (OCH)	MDA	MDH	VIS				
AMDT	A	1746 (309)	1750 (310)		800	1200	1861 (424)	1870 (430)	900	1500	2053 (603)	2060 (610)		1500	Timing FAF / THR 6.3 NM				
	B	1753 (316)	1760 (320)		800	1200	1861 (424)	1870 (430)	1000	1500	2205 (755)	2210 (760)		1600					
	C	1758 (321)	1760 (330)		800	1200	1861 (424)	1870 (430)	1000	1800	2441 (991)	2450 (1000)		2400	KT	MIN	SEC		
	D	1764 (327)	1770 (330)		800	1200	1861 (424)	1870 (430)	1400	2000	2441 (991)	2450 (1000)		3600	90	3	Min 52		
	Notes : - (1) With approach lights - (2) Without approach lights - (3) OCH and MDH AAL - Daytime only														RDH: 15 m Minimum temperature: 10°		140	2	Min 29
																	100	3	Min 29
																	150	2	Min 19
																	110	3	Min 10
																	160	2	Min 10
																	120	2	Min 03
																	170	2	Min 03
																	130	2	Min 41
																	180	1	Min 56

RDH: 15 m

Minimum temperature: 10°

30 OCTOBER 2025

AERONAUTICAL INFORMATION SERVICE - ASECNA

07AD2-FOON-IAC-RNP15

TABULAR DESCRIPTION

RNP RWY 15

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed limit (Kt)	VPA/TCH	Navigation Specification
010	IF	LUMPA	—	—	—	—	—	+4000	-230	—	RNP APCH
020	TF	DEKER	—	055(53.6)	—	6.0	—	+4000	-230	—	RNP APCH
010	IF	NELGA	—	—	—	—	—	+4000	-230	—	RNP APCH
020	TF	DEKER	—	235(233.6)	—	6.0	—	+4000	-230	—	RNP APCH
010	IF	DEKER	—	—	—	—	—	+4000	-230	—	RNP APCH
020	TF	ON501	—	145(143.6)	—	5.7	—	@3500	—	—	RNP APCH
030	TF	RW15	Y	145(143.6)	+1.0	6.3	—	@1487	—	-3.0/15	RNP APCH
010	IF	RW15	—	—	—	—	—	—	—	—	RNP APCH
020	CF	ON502	Y	145(143.6)	+1.0	5.0	—	—	-230	—	RNP APCH
030	DF	NELGA	—	—	—	—	L	+4000	-230	—	RNP APCH
010	IF	DEKER	—	—	—	—	—	+4000	-230	—	RNP APCH
020	HM	DEKER	—	145(143.6)	—	—	L	+4000	-230	—	RNP APCH

WAYPOINTS LIST

RNP RWY 15

Waypoint Identifier	Coordinates	
LUMPA	01°32'33.448"S	013°13'49.896"E
DEKER	01°28'59.730"S	013°18'39.950"E
NELGA	01°25'23.671"S	013°23'28.273"E
ON501	01°33'35.049"S	013°22'01.946"E
RW15	01°38'41.794"S	013°25'47.024"E
ON502	01°42'44.313"S	013°28'44.993"E

INSTRUMENT APPROACH CHART CATEGORIES A-B-C-D

AERODROME ELEV : 1450
THR RWY 15 ELEV : 1437

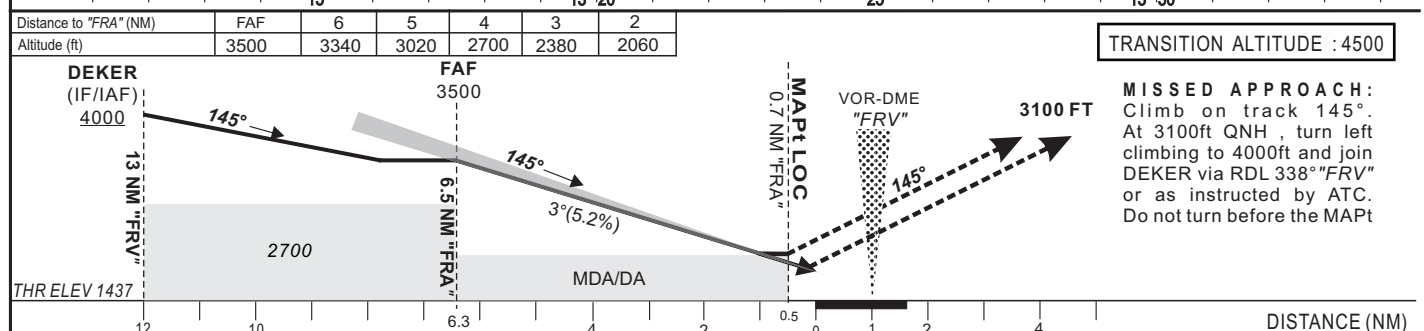
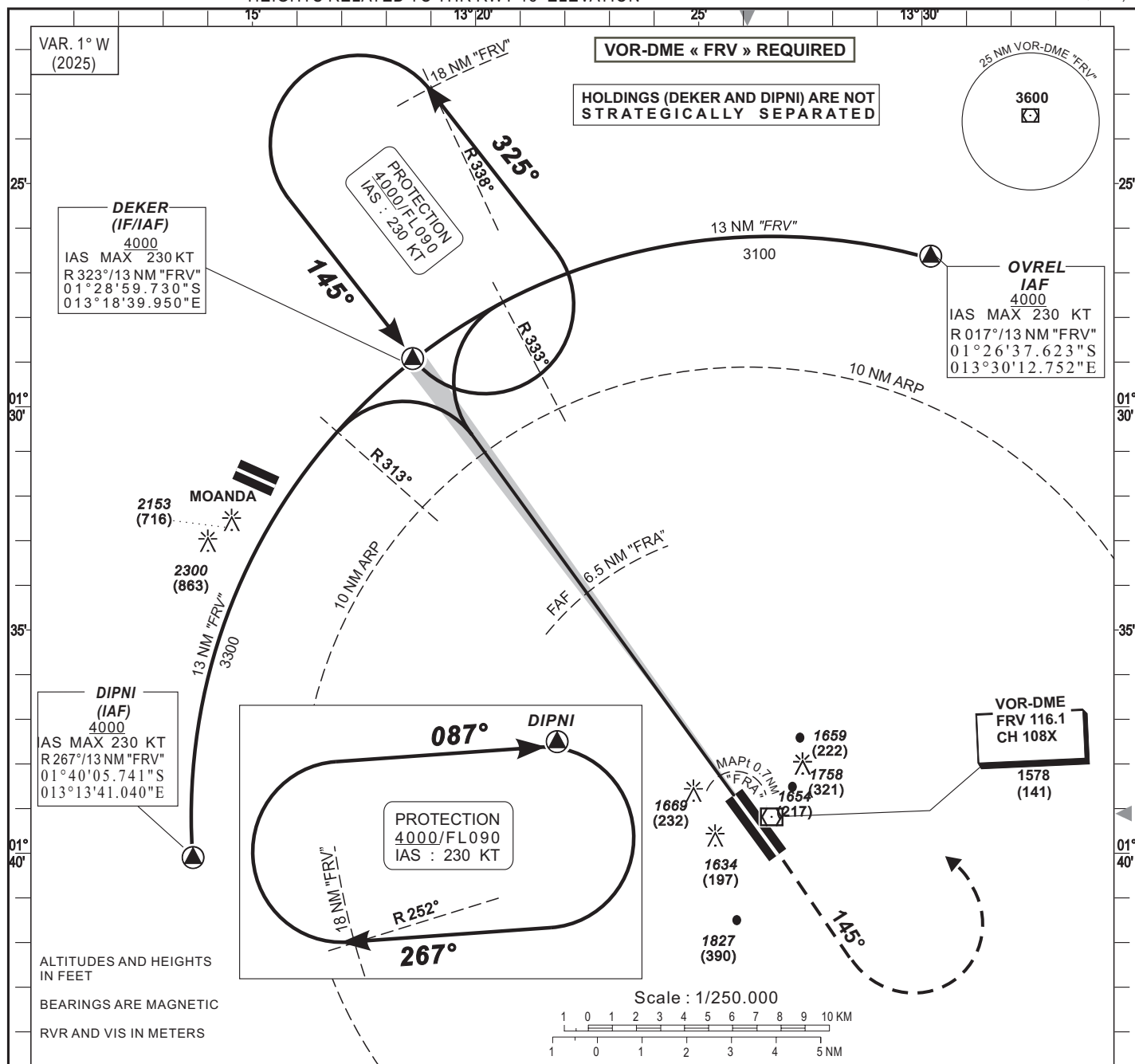
FRANCEVILLE TOWER : 118.2

FRANCEVILLE / Mvengué (FOON)

ILS Z ou LOC Z - RWY 15

IDENT ILS "FRA" FREQ 110,1

HEIGHTS RELATED TO THR RWY 15 ELEVATION



CAT	CAT.I				LOC-DME					CIRCLING(3)				RVR for take-off : CAT. A - B - C - D : 400																																					
	OCA (OCH)	DA	DH	RVR(1)	RVR(2)	OCA (OCH)	MDA	MDH	RVR(1)	RVR(2)	OCA (OCH)	MDA	MDH	VIS																																					
A	1656 (219)	1660 (220)	600	1000	1893 (456)	1900 (460)	1000	1500			2053 (603)	2060 (610)	1500		Timing FAF / THR 6.3 NM <table><tr><th>KT</th><th>MIN</th><th>SEC</th><th>KT</th><th>MIN</th><th>SEC</th></tr><tr><td>90</td><td>4</td><td>Min 12</td><td>140</td><td>2</td><td>Min 42</td></tr><tr><td>100</td><td>3</td><td>Min 47</td><td>150</td><td>2</td><td>Min 31</td></tr><tr><td>110</td><td>3</td><td>Min 26</td><td>160</td><td>2</td><td>Min 22</td></tr><tr><td>120</td><td>3</td><td>Min 09</td><td>170</td><td>2</td><td>Min 13</td></tr><tr><td>130</td><td>2</td><td>Min 54</td><td>180</td><td>2</td><td>Min 06</td></tr></table>	KT	MIN	SEC	KT	MIN	SEC	90	4	Min 12	140	2	Min 42	100	3	Min 47	150	2	Min 31	110	3	Min 26	160	2	Min 22	120	3	Min 09	170	2	Min 13	130	2	Min 54	180	2	Min 06
KT	MIN	SEC	KT	MIN	SEC																																														
90	4	Min 12	140	2	Min 42																																														
100	3	Min 47	150	2	Min 31																																														
110	3	Min 26	160	2	Min 22																																														
120	3	Min 09	170	2	Min 13																																														
130	2	Min 54	180	2	Min 06																																														
B	1668 (231)	1670 (240)	600	1000	1893 (456)	1900 (460)	1200	1500			2205 (755)	2210 (760)	1600																																						
C	1676 (239)	1680 (240)	600	1000	1893 (456)	1900 (460)	1200	1200			2441 (991)	2450 (1000)	2400																																						
D	1687 (250)	1690 (250)	600	1000	1893 (456)	1900 (460)	1600	2000			2441 (991)	2450 (1000)	3600																																						
Notes : (1) With approach light (2)Without approach light (3) Daytime only. OCH and MDH AAL RDH: 15 m																																																			

Notes :
(1) With approach light
(2) Without approach light
(3) Daytime only. OCH and MDH AAL

RDH: 15 m

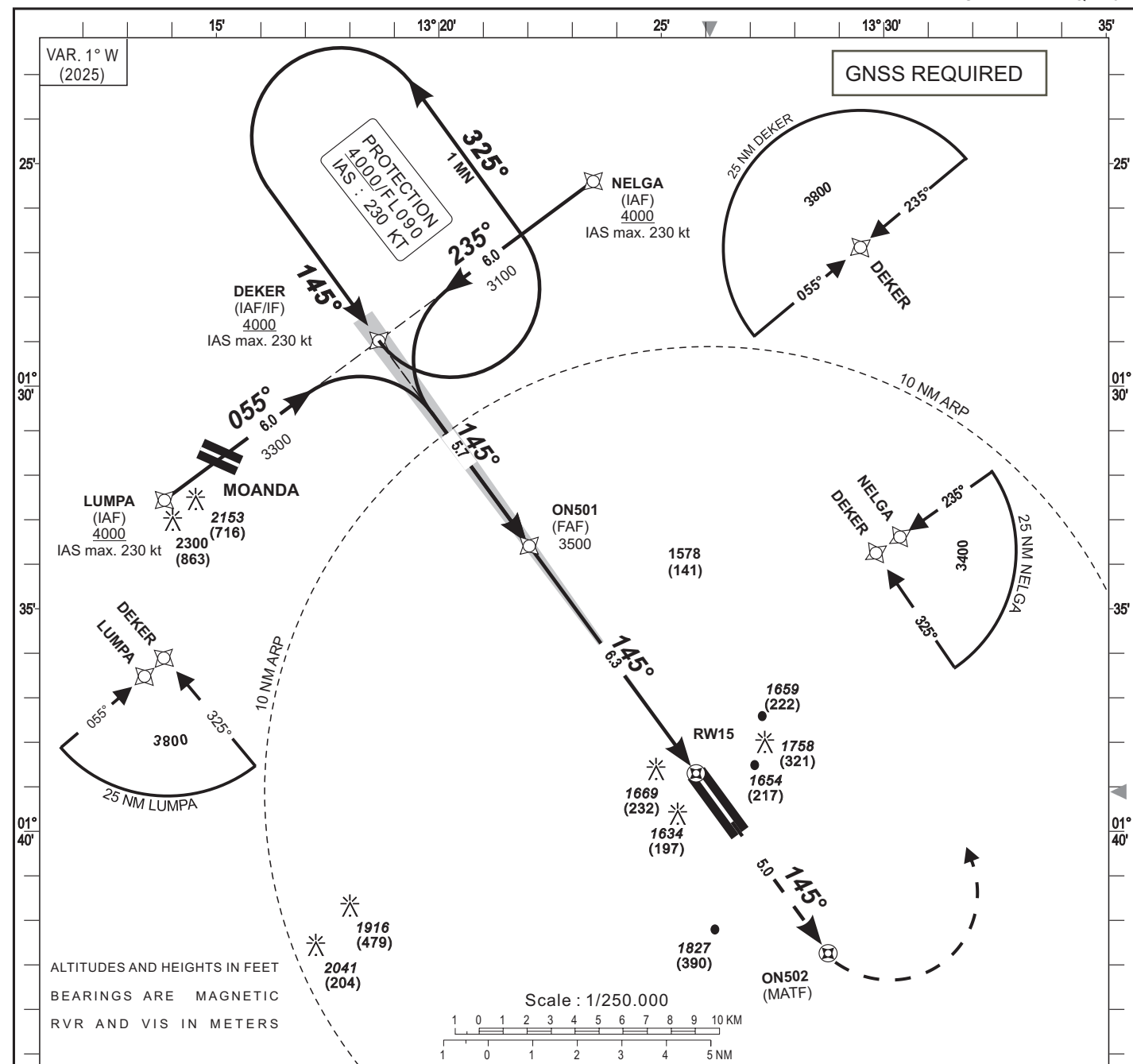
**INSTRUMENT
APPROACH CHART
CATEGORIES A-B-C-D**

AERODROME ELEV : 1450
THR RWY 15 ELEV : 1437

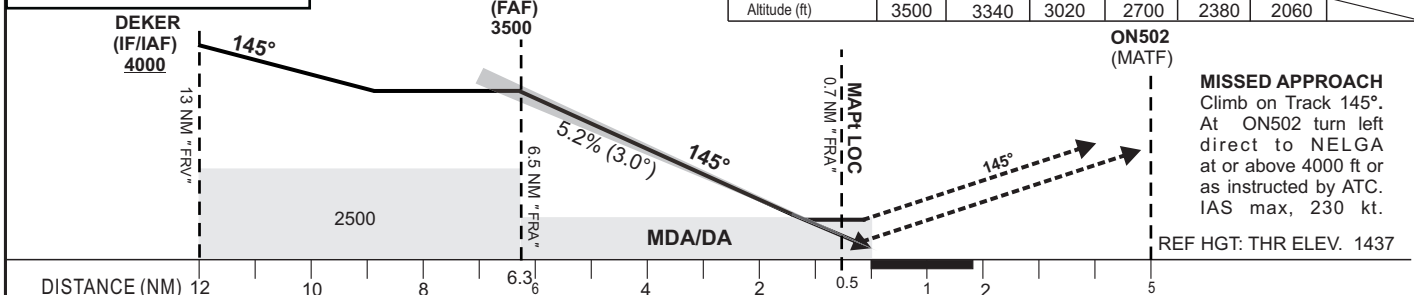
FRANCEVILLE TOWER : 118.2

HEIGHTS RELATED TO THR RWY 15 ELEVATION

FRANCEVILLE / Mvengué (FOON)
ILS Y or LOC Y - RWY 15
IDENT ILS "FRA" FREQ 110.1



TRANSITION ALTITUDE : 4500



CAT	CAT.I				LOC-DME				CIRCLING (3)				RVR for take-off : CAT. A - B - C - D : 400		
	OCA (OCH)	DA	DH	RVR(1)	RVR(2)	OCA (OCH)	MDA	MDH	RVR(1)	RVR(2)	OCA (OCH)	MDA	MDH	VIS	
A	1656 (219)	1660 (220)		600	1000	1893 (456)	1900 (460)		1000	1500	2053 (603)	2060 (610)		1500	Timing FAF / THR 6.3 NM
B	1668 (231)	1670 (240)		600	1000	1893 (456)	1900 (460)		1200	1500	2205 (755)	2210 (760)		1600	
C	1676 (239)	1680 (240)		600	1000	1893 (456)	1900 (460)		1200	2000	2441 (991)	2450 (1000)		2400	
D	1687 (250)	1690 (250)		600	1000	1893 (456)	1900 (460)		1600	2000	2441 (991)	2450 (1000)		3600	
Notes : - (1) With approach lights - (2) Without approach lights - (3) OCH and MDH AAL - Daytime only															
RDH: 15 m															
KT MIN SEC KT MIN SEC															
90 3 Min 52 140 2 Min 29															
100 3 Min 29 150 2 Min 19															
110 3 Min 10 160 2 Min 10															
120 2 Min 54 170 2 Min 03															
130 2 Min 41 180 1 Min 56															

TABULAR DESCRIPTION

ILS Y or LOC Y - RWY 15

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed limit (Kt)	VPA/ TCH	Navigation Specification
010	IF	LUMPA	—	—	—	—	—	+4000	-230	—	RNP APCH
020	TF	DEKER	—	055(53.6)	—	6.0	—	+4000	-230	—	RNP APCH
010	IF	NELGA	—	—	—	—	—	+4000	-230	—	RNP APCH
020	TF	DEKER	—	235(233.6)	—	6.0	—	+4000	-230	—	RNP APCH
010	IF	DEKER	—	—	—	—	—	+4000	-230	—	RNP APCH
020	TF	ON501	—	145(143.6)		5.7	—	@3500	—	—	N/A
030	TF	RW15	Y	145(143.6)	+1.0	6.3	—	@1487	—	-3.0/15	N/A
010	IF	RW15	—	—		—	—	—	—	—	N/A
020	CF	ON502	Y	145(143.6)	+1.0	5.0	—	—	-230	—	RNP APCH
030	DF	NELGA	—	—	—	—	L	+4000	-230	—	RNP APCH
010	IF	DEKER	—	—	—	—	—	+4000	-230	—	RNP APCH
020	HM	DEKER	—	145(143.6)	—	—	L	+4000	-230	—	RNP APCH

WAYPOINTS LIST

ILS Y or LOC Y - RWY 15		
Waypoint Identifier	Coordinates	
LUMPA	01°32'33.448"S	013°13'49.896"E
DEKER	01°28'59.730"S	013°18'39.950"E
NELGA	01°25'23.671"S	013°23'28.273"E
ON501	01°33'35.049"S	013°22'01.946"E
RW15	01°38'41.794"S	013°25'47.024"E
ON502	01°42'44.313"S	013°28'44.993"E