AGENCE POUR LA SÉCURITÉ DE LA NAVIGATION AÉRIENNE EN AFRIQUE ET À MADAGASCAR

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BUREAU NOTAM INTERNATIONAL
DE L'AFRIQUE CENTRALE

B.P. 660 BRAZZAVILLE - CONGO

AIRAC AIP SUP

NR 53/A/25FC

12 JUN 2025

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

DOUALA - FKKD

MISE A JOUR DES INFORMATIONS AERONAUTIQUES
AERONAUTICAL INFORMATION UPDATE

Effective date	**07 AUG 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 DOUALA	*This supplement is published to inform users of the update of flight procedures of DOUALA aerodrome.*

ENR 4.4 INDICATIFS CODES DES POINTS SIGNIFICATIFS
NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS

INDICATIF CODÉ 1	COORDONNÉES 2	ROUTE ATS ou AUTRE ROUTE 3
DISDO	03°54'39.58"N 009°54'25.07"E ~~03°54'39.20"N 009°54'25"E~~	DOUALA IAF

FKKD — AD 2.17 ESPACE AÉRIEN ATS
ATS AIRSPACE

Désignation et limites latérales *Designation and laterals limits*	Limites verticales *Vertical limits*	Classification de l'espace aérien *Airspace classification*	Indicatif d'appel et langues de l'organe *ATS unit call sign/Languages*	Altitude de transition *Transition altitude*	Observations *Remarks*
1	2	3	4	5	6
CTR DOUALA Cercle de 30 NM de rayon centré sur DOUALA VOR/DME "DLA" 03°59'38.10"N - 009°44'36.50"E	900 M AMSL ---------- SOL - MER	c	DOUALA TOUR DOUALA TOWER Français (Fr) Anglais (En)	3500FT ~~2200 FT~~	
La frequence 129,5 Mhz est utilisée comme secours quand la fréquence TWR 119.7Mhz n'est pas disponible *Frequency 129.5 Mhz is used as backup when TWR frequency 119.7 Mhz is not AVBL*					

ASECNA AIP MODIFY PAGES:

- 00ENR4.4-4
- 03 AD-2.FKKD-10
- 03AD2-FKKD-IAC-ILSY30
- 03AD2-FKKD-IAC-ILSY30-DATA
- 03AD2-FKKD-IAC-ILSZ30
- 03AD2-FKKD-IAC-RNP12
- 03AD2-FKKD-IAC-RNP12-DATA
- 03AD2-FKKD-IAC-RNP30
- 03AD2-FKKD-IAC-RNP30-DATA
- 03AD2-FKKD-IAC-VOR12
- 03AD2-FKKD-IAC-VOR30
- 03AD2-FKKD-SID-CCO-12
- 03AD2-FKKD-SID-CCO-12-DATA
- 03AD2-FKKD-SID-CCO-30
- 03AD2-FKKD-SID-CCO-30-DATA
- 03AD2-FKKD-STAR-CDO-12
- 03AD2-FKKD-STAR-CDO-12-DATA
- 03AD2-FKKD-STAR-CDO-30
- 03AD2-FKKD-STAR-CDO-30-DATA
- 03AD2-FKKD-STAR-VORDME12
- 03AD2-FKKD-STAR-VORDME30

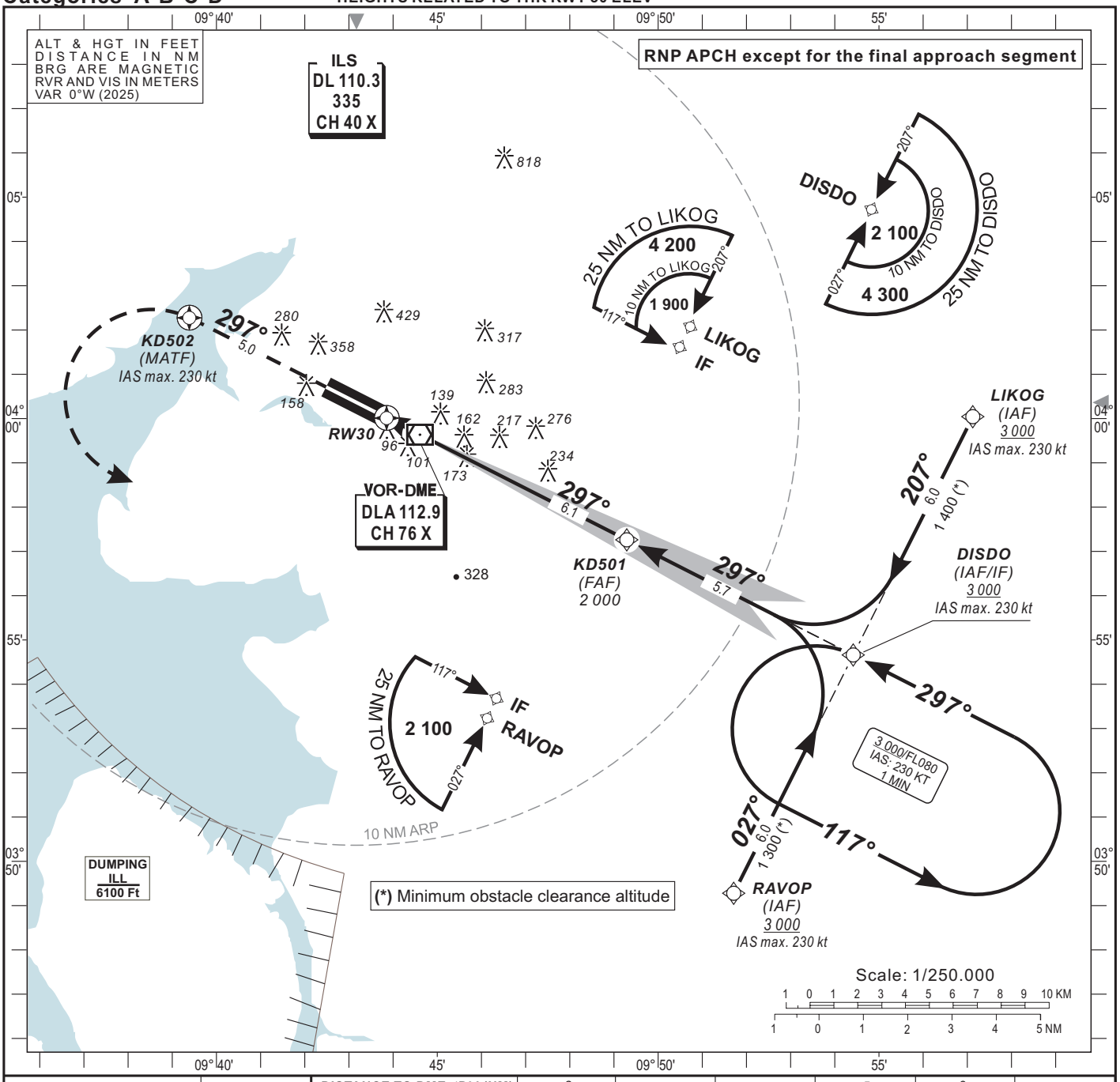
CE SUP AIP COMPORTE 02 PAGES ET 19 ANNEXES /
THIS AIP SUP HAS 02 PAGES AND 19 ANNEXES

INSTRUMENT APPROACH CHART
Categories A-B-C-D

AERODROME ELEV: 34
THR RWY 30 ELEV: 14
HEIGHTS RELATED TO THR RWY 30 ELEV

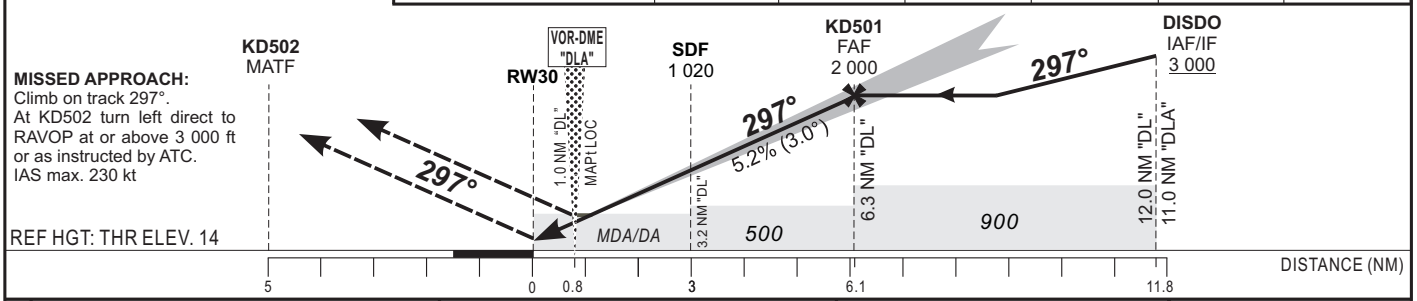
APP : 129.5
TWR : 119.7

DOUALA / Intl (FKKD)
ILS Y or LOC Y RWY 30



TRANSITION ALTITUDE: 3 500

DISTANCE TO DME 'DL' (NM)	2	3	4	5	6	FAF
ALTITUDE (FT)	640	955	1 275	1 595	1 910	2 000



MISSED APPROACH:
Climb on track 297°.
At KD502 turn left direct to RAVOP at or above 3 000 ft or as instructed by ATC.
IAS max. 230 kt

REF HGT: THR ELEV. 14

CAT	CAT. I				LOC-DME				CIRCLING 3		
	OCA (OCH)	DA DH	RVR 1	RVR 2	OCA (OCH)	MDA MDH	RVR 1	RVR 2	OCA (OCH)	MDA MDH	VIS
A	224 (210)	230 (210)	550	1200	419 (405)	420 (410)	1200	1900	653 (619)	660 (620)	2600
B	236 (222)	240 (230)	550	1200	419 (405)	420 (410)	1200	1900	725 (691)	730 (700)	2600
C	244 (230)	250 (230)	550	1200	419 (405)	420 (410)	1200	1900	823 (789)	830 (790)	2600
D	255 (241)	260 (250)	550	1300	419 (405)	420 (410)	1200	1900	823 (789)	830 (790)	3600

Notes:
1 With approach lights
2 Without approach lights
3 Daytime only. OCH and MDH AAL
- RDH: 15 m

Timing FAF / THR 6.1 NM

KT	MIN SEC	KT	MIN SEC
90	4 Min 04	140	2 Min 37
100	3 Min 40	150	2 Min 26
110	3 Min 20	160	2 Min 17
120	3 Min 03	170	2 Min 09
130	2 Min 49	180	2 Min 02

INSTRUMENT APPROACH CHART
Categories A-B-C-D

AERODROME ELEV: 34
THR RWY 30 ELEV: 14
HEIGHTS RELATED TO THR RWY 30 ELEV

APP : 129.5
TWR : 119.7

DOUALA / Intl (FKKD)
ILS Y or LOC Y RWY 30

TABULAR DESCRIPTION

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed limit (Kt)	VPA/ TCH (°/m)	Navigation Specification
010	IF	RAVOP	—	—	—	—	—	+3000	-230	—	RNP APCH
020	TF	DISDO	—	027(026.8)	—	6.0	—	+3000	-230	—	RNP APCH
010	IF	LIKOG	—	—	—	—	—	+3000	-230	—	RNP APCH
020	TF	DISDO	—	207(206.8)	—	6.0	—	+3000	-230	—	RNP APCH
010	IF	DISDO	—	—	—	—	—	+3000	-230	—	RNP APCH
020	TF	KD501	—	297(296.8)	—	5.7	—	@2000	—	—	N/A
030	TF	RW30	Y	297(296.8)	—	6.1	—	@64	—	3.0/15	N/A
040	CF	KD502	Y	297(296.8)	—	5.0	—	—	-230	—	RNP APCH
050	DF	RAVOP	—	—	—	—	L	+3000	-230	—	RNP APCH
010	IF	DISDO	—	—	—	—	—	+3000	-230	—	RNP APCH
020	HM	DISDO	—	297(296.8)	—	—	L	+3000	-230	—	RNP APCH

WAYPOINT LIST

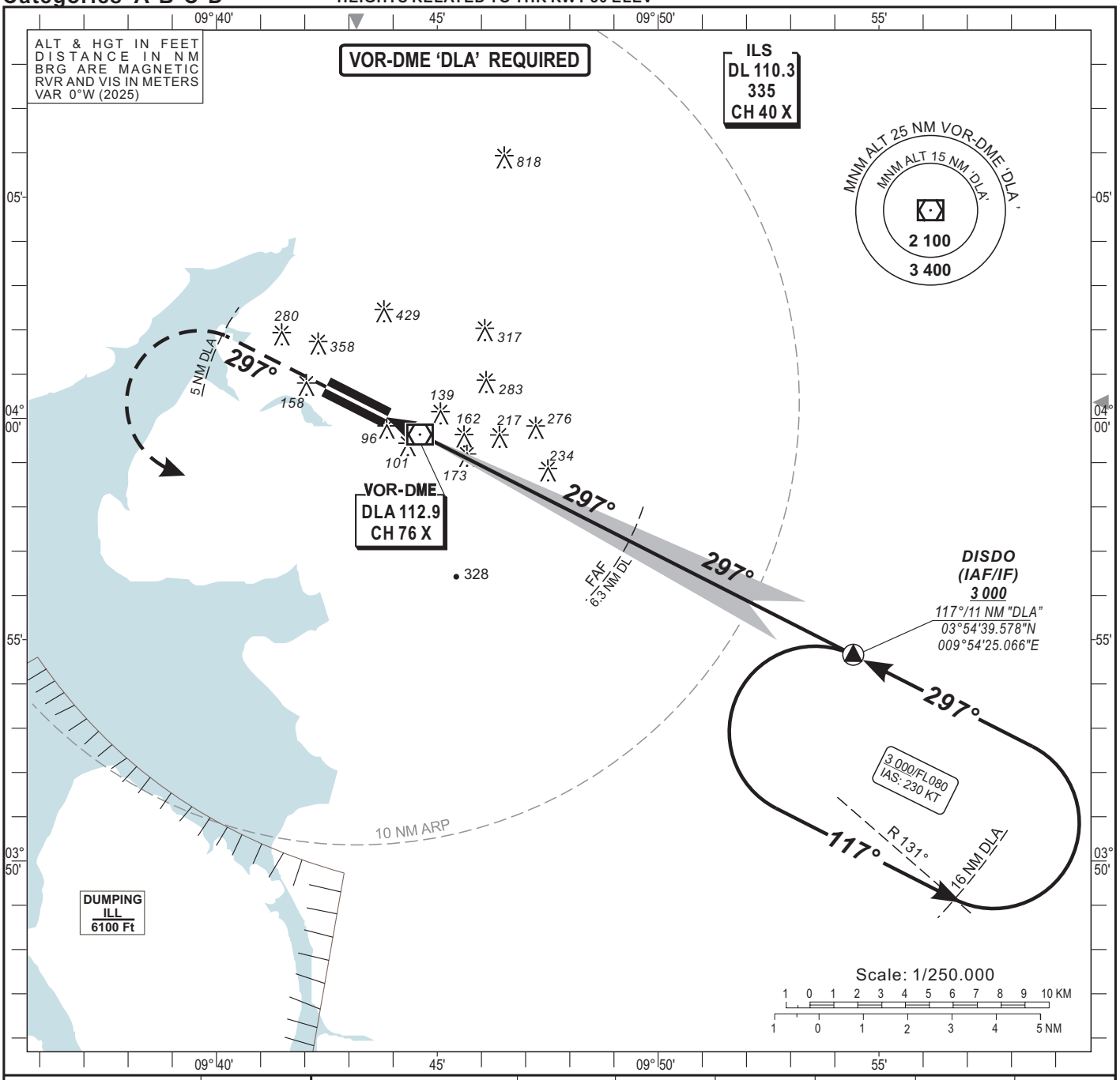
Waypoint Identifier	Coordinates	
RAVOP	03°49'16.668"N	009°51'42.690"E
LIKOG	04°00'02.479"N	009°57'07.476"E
DISDO	03°54'39.578"N	009°54'25.066"E
KD501	03°57'15.596"N	009°49'17.479"E
KD502	04°02'16.728"N	009°39'23.531"E
RW30	04°00'00.880"N	009°43'51.520"E

INSTRUMENT APPROACH CHART
Categories A-B-C-D

AERODROME ELEV: 34
THR RWY 30 ELEV: 14
HEIGHTS RELATED TO THR RWY 30 ELEV

APP : 129.5
TWR : 119.7

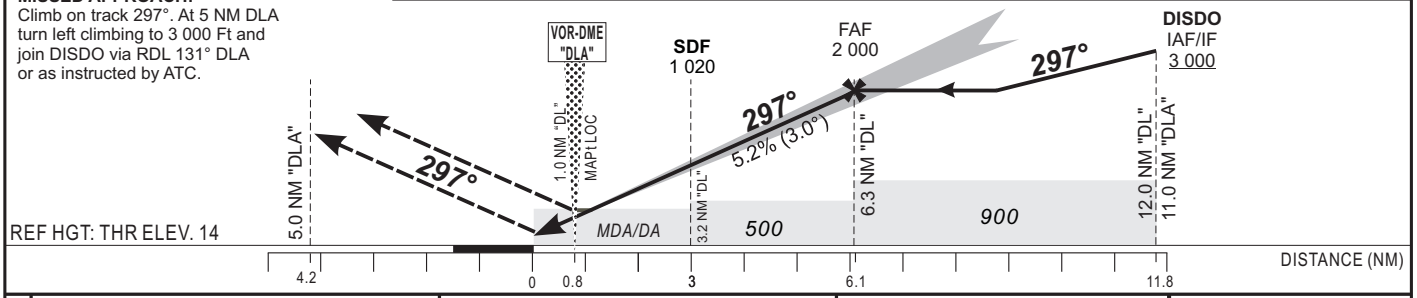
DOUALA / Intl (FKKD)
ILS Z or LOC Z RWY 30



TRANSITION ALTITUDE: 3 500

DISTANCE TO DME 'DL' (NM)	2	3	4	5	6	FAF
ALTITUDE (FT)	640	955	1 275	1 595	1 910	2 000

MISSED APPROACH:
Climb on track 297°. At 5 NM DLA turn left climbing to 3 000 Ft and join DISDO via RDL 131° DLA or as instructed by ATC.



CAT	CAT. I				LOC-DME				CIRCLING 3			
	OCA (OCH)	DA DH	RVR 1	RVR 2	OCA (OCH)	MDA MDH	RVR 1	RVR 2	OCA (OCH)	MDA MDH	VIS	
A	224 (210)	230 (210)	550	1200	419 (405)	420 (410)	1200	1900	653 (619)	660 (620)	2600	
B	236 (222)	240 (230)	550	1200	419 (405)	420 (410)	1200	1900	725 (691)	730 (700)	2600	
C	244 (230)	250 (230)	550	1200	419 (405)	420 (410)	1200	1900	823 (789)	830 (790)	2600	
D	255 (241)	260 (250)	550	1300	419 (405)	420 (410)	1200	1900	823 (789)	830 (790)	3600	

Timing	FAF / THR 6.1 NM		
KT	MIN SEC	KT	MIN SEC
90	4 Min 04	140	2 Min 37
100	3 Min 40	150	2 Min 26
110	3 Min 20	160	2 Min 17
120	3 Min 03	170	2 Min 09
130	2 Min 49	180	2 Min 02

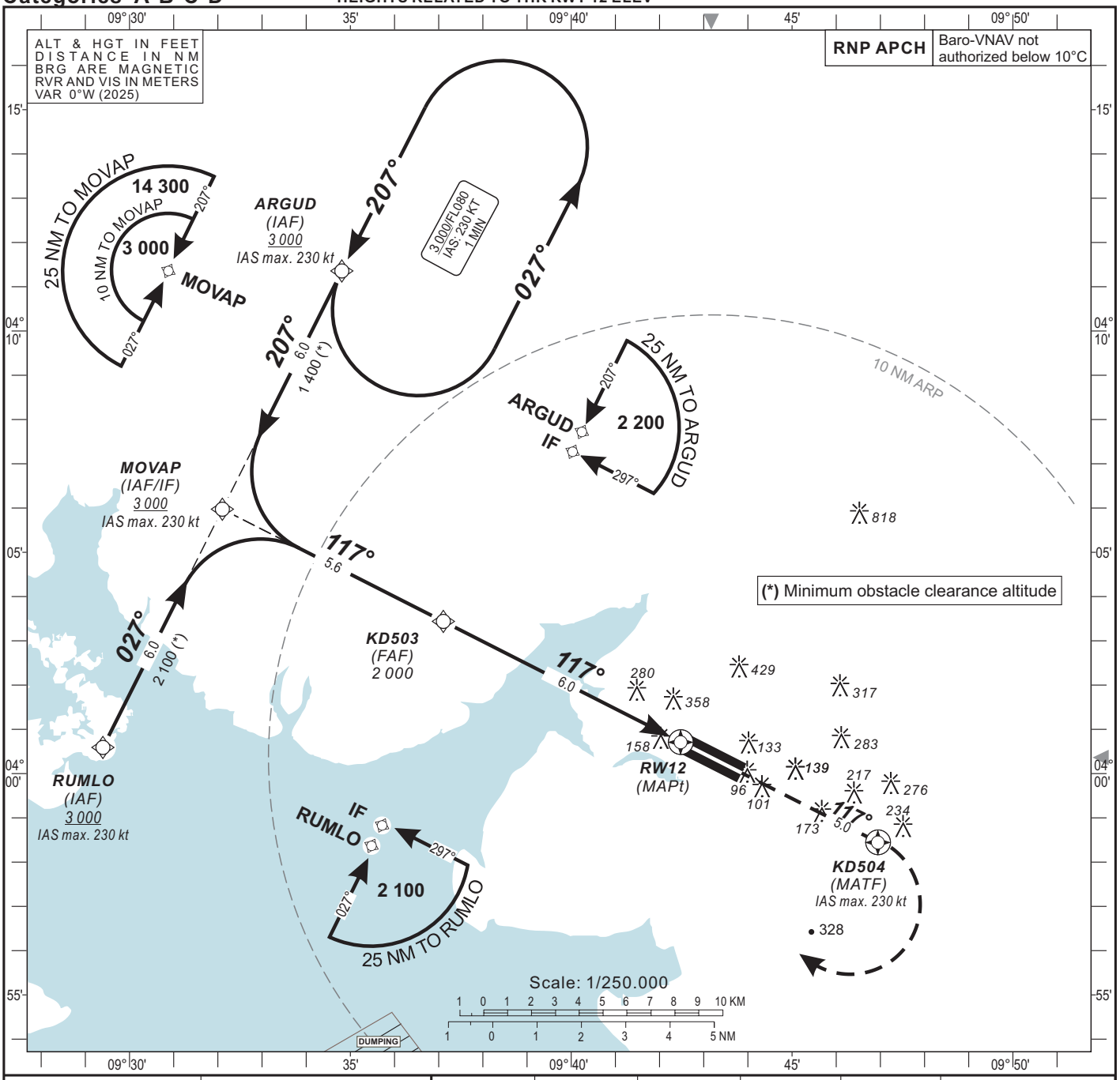
Notes:
1 With approach lights
2 Without approach lights
3 Daytime only. OCH and MDH AAL
- RDH: 15 m

INSTRUMENT APPROACH CHART
Categories A-B-C-D

AERODROME ELEV: 34
THR RWY 12 ELEV: 34
HEIGHTS RELATED TO THR RWY 12 ELEV

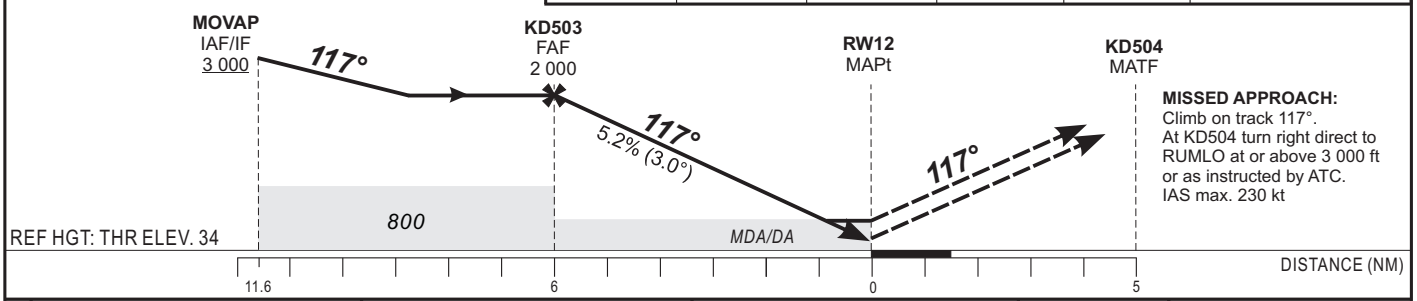
APP : 129.5
TWR : 119.7

DOUALA / Intl (FKKD)
RNP RWY 12



TRANSITION ALTITUDE: 3 500

FAF	5	4	3	2	DISTANCE TO RW12 (NM)
2 000	1 675	1 360	1 040	720	ALTITUDE (FT)



MISSED APPROACH:
Climb on track 117°.
At KD504 turn right direct to RUMLO at or above 3 000 ft or as instructed by ATC.
IAS max. 230 kt

CAT	LNAV/VNAV				LNAV				CIRCLING 1			
	OCA	(OCH)	DA	DH	RVR	OCA	(OCH)	MDA	MDH	RVR	OCA	(OCH)	MDA	MDH	VIS
A	456	(422)	**460**	**(430)**	2000	558	(524)	**560**	**(530)**	2400	653	(619)	**660**	**(620)**	2500
B	465	(431)	**470**	**(440)**	2000	558	(524)	**560**	**(530)**	2400	725	(691)	**730**	**(700)**	2500
C	472	(438)	**480**	**(440)**	2000	558	(524)	**560**	**(530)**	2400	823	(789)	**830**	**(790)**	2500
D	479	(445)	**480**	**(450)**	2100	558	(524)	**560**	**(530)**	2400	823	(789)	**830**	**(790)**	3600

Notes:
1 Daytime only. OCH and MDH AAL
- RDH: 15 m

Timing	FAF / THR 6.0 NM		
KT	MIN SEC	KT	MIN SEC
90	4 Min 00	140	2 Min 34
100	3 Min 36	150	2 Min 24
110	3 Min 16	160	2 Min 15
120	3 Min 00	170	2 Min 07
130	2 Min 46	180	2 Min 00

INSTRUMENT APPROACH CHART
Categories A-B-C-D

AERODROME ELEV: 34
THR RWY 12 ELEV: 34
HEIGHTS RELATED TO THR RWY 12 ELEV

APP : 129.5
TWR : 119.7

DOUALA / Intl (FKKD)
RNP RWY 12

TABULAR DESCRIPTION

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed limit (Kt)	VPA/ TCH (°/m)	Navigation Specification
010	IF	RUMLO	—	—	—	—	—	+3000	-230	—	RNP APCH
020	TF	MOVAP	—	027(026.8)	—	6.0	—	+3000	-230	—	RNP APCH
010	IF	ARGUD	—	—	—	—	—	+3000	-230	—	RNP APCH
020	TF	MOVAP	—	207(206.8)	—	6.0	—	+3000	-230	—	RNP APCH
010	IF	MOVAP	—	—	—	—	—	+3000	-230	—	RNP APCH
020	TF	KD503	—	117(116.8)	—	5.6	—	@2000	—	—	RNP APCH
030	TF	RW12	Y	117(116.8)	—	6.0	—	@84	—	3.0/15	RNP APCH
040	CF	KD504	Y	117(116.8)	—	5.0	—	—	-230	—	RNP APCH
050	DF	RUMLO	—	—	—	—	R	+3000	-230	—	RNP APCH
010	IF	ARGUD	—	—	—	—	—	+3000	-230	—	RNP APCH
020	HM	ARGUD	—	207(206.8)	—	—	L	+3000	-230	—	RNP APCH

WAYPOINT LIST

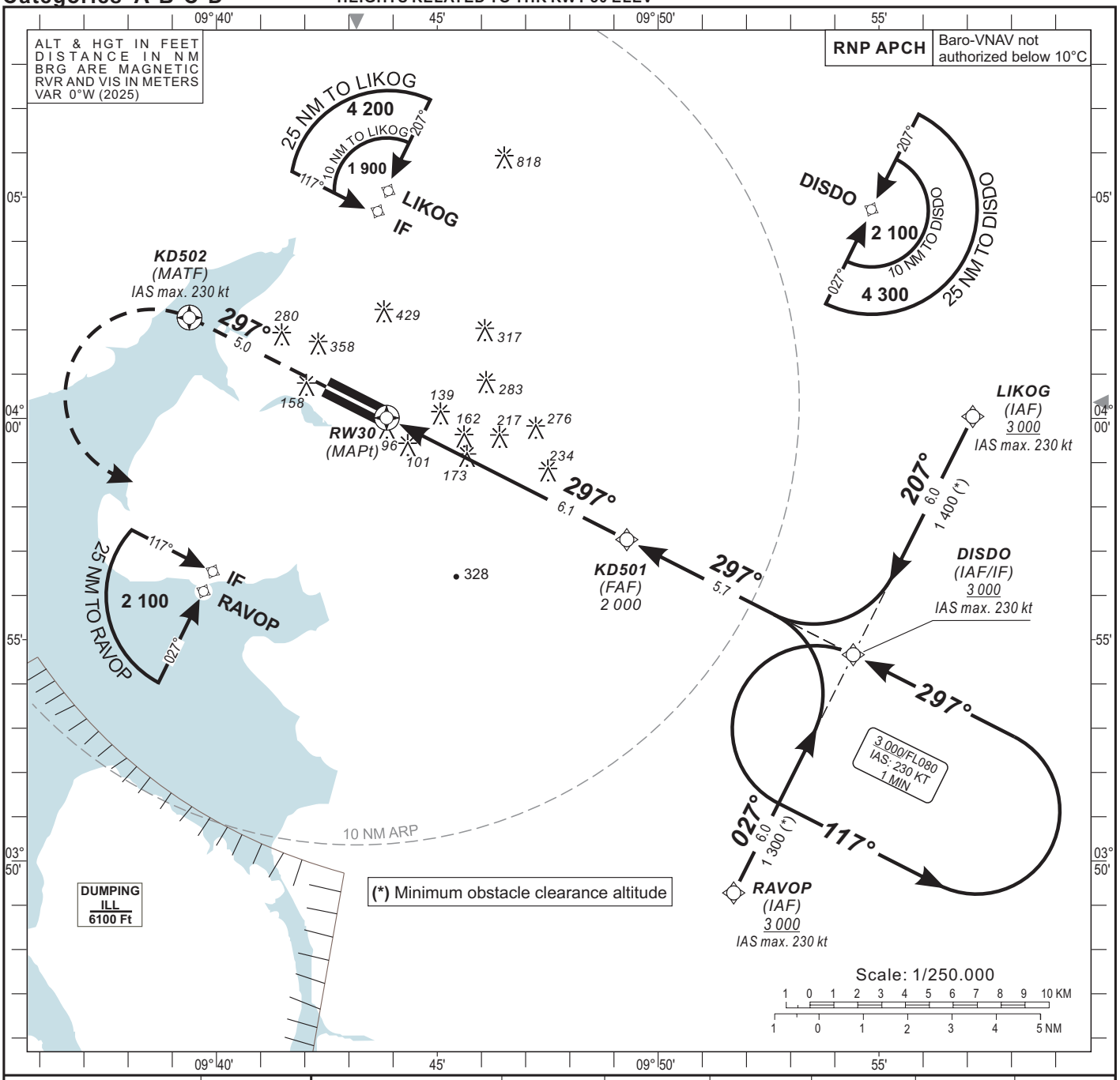
Waypoint Identifier	Coordinates	
ARGUD	04°11'21.342"N	009°34'48.444"E
RUMLO	04°00'35.385"N	009°29'23.875"E
MOVAP	04°05'58.369"N	009°32'06.141"E
KD503	04°03'26.262"N	009°37'06.332"E
KD504	03°58'26.865"N	009°46'56.942"E
RW12	04°00'42.730"N	009°42'28.970"E

INSTRUMENT APPROACH CHART
Categories A-B-C-D

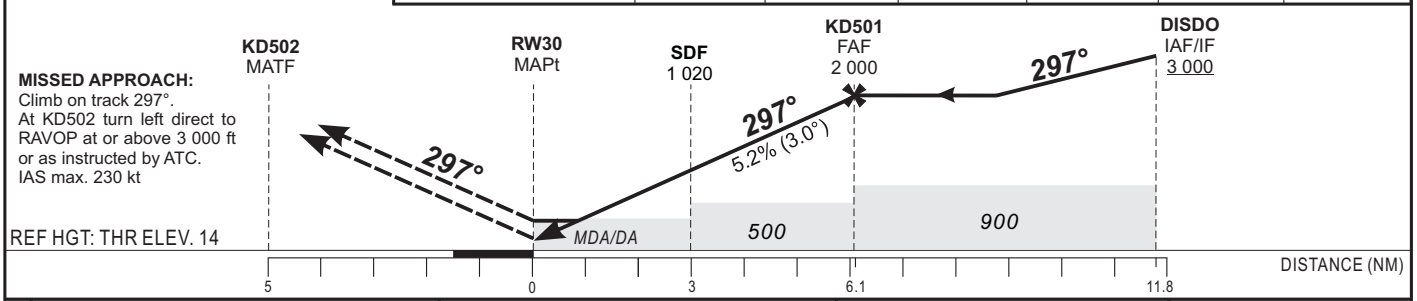
AERODROME ELEV: 34
THR RWY 30 ELEV: 14
HEIGHTS RELATED TO THR RWY 30 ELEV

APP : 129.5
TWR : 119.7

DOUALA / Intl (FKKD)
RNP RWY 30



TRANSITION ALTITUDE: 3 500						
DISTANCE TO RW30 (NM)	2	3	4	5	6	FAF
ALTITUDE (FT)	700	1020	1 340	1 655	1 975	2 000



MISSED APPROACH:
Climb on track 297°.
At KD502 turn left direct to RAVOP at or above 3 000 ft or as instructed by ATC.
IAS max. 230 kt

REF HGT: THR ELEV. 14

CAT	LNAV/VNAV					LNAV					CIRCLING 3				
	OCA	(OCH)	DA	DH	RVR 1	RVR 2	OCA	(OCH)	MDA	MDH	RVR 1	RVR 2	OCA	(OCH)	MDA	MDH	VIS
A	291	(277)	300	(280)	600	1300	419	(405)	420	(410)	1200	1900	653	(619)	660	(620)	2500
B	303	(289)	310	(290)	650	1400	419	(405)	420	(410)	1200	1900	725	(691)	730	(700)	2500
C	312	(298)	320	(300)	650	1400	419	(405)	420	(410)	1200	1900	823	(789)	830	(790)	2500
D	322	(308)	330	(310)	700	1400	419	(405)	420	(410)	1200	1900	823	(789)	830	(790)	3600

Timing	FAF / THR 6.1 NM		
KT	MIN SEC	KT	MIN SEC
90	4 Min 04	140	2 Min 37
100	3 Min 40	150	2 Min 26
110	3 Min 20	160	2 Min 17
120	3 Min 03	170	2 Min 09
130	2 Min 49	180	2 Min 02

Notes:
1 With approach lights
2 Without approach lights
3 Daytime only. OCH and MDH AAL
- RDH: 15 m

INSTRUMENT APPROACH CHART
Categories A-B-C-D

AERODROME ELEV: 34
THR RWY 30 ELEV: 14
HEIGHTS RELATED TO THR RWY 30 ELEV

APP : 129.5
TWR : 119.7

DOUALA / Intl (FKKD)
RNP RWY 30

TABULAR DESCRIPTION

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed limit (Kt)	VPA/ TCH (°/m)	Navigation Specification
010	IF	RAVOP	—	—	—	—	—	+3000	-230	—	RNP APCH
020	TF	DISDO	—	027(026.8)	—	6.0	—	+3000	-230	—	RNP APCH
010	IF	LIKOG	—	—	—	—	—	+3000	-230	—	RNP APCH
020	TF	DISDO	—	207(206.8)	—	6.0	—	+3000	-230	—	RNP APCH
010	IF	DISDO	—	—	—	—	—	+3000	-230	—	RNP APCH
020	TF	KD501	—	297(296.8)	—	5.7	—	@2000	—	—	RNP APCH
030	TF	RW30	Y	297(296.8)	—	6.1	—	@64	—	3.0/15	RNP APCH
040	CF	KD502	Y	297(296.8)	—	5.0	—	—	-230	—	RNP APCH
050	DF	RAVOP	—	—	—	—	L	+3000	-230	—	RNP APCH
010	IF	DISDO	—	—	—	—	—	+3000	-230	—	RNP APCH
020	HM	DISDO	—	297(296.8)	—	—	L	+3000	-230	—	RNP APCH

WAYPOINT LIST

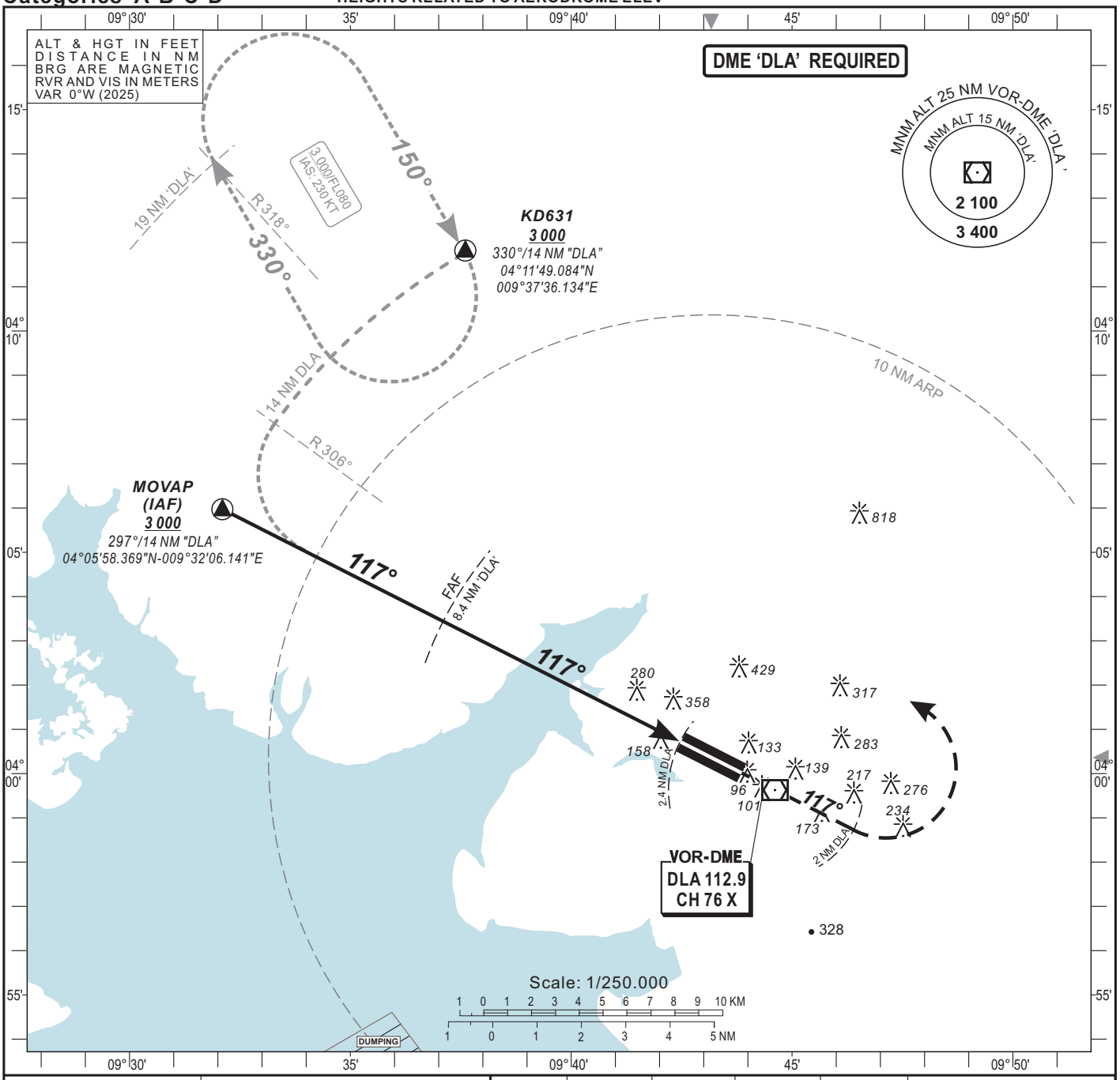
Waypoint Identifier	Coordinates	
RAVOP	03°49'16.668"N	009°51'42.690"E
LIKOG	04°00'02.479"N	009°57'07.476"E
DISDO	03°54'39.578"N	009°54'25.066"E
KD501	03°57'15.596"N	009°49'17.479"E
KD502	04°02'16.728"N	009°39'23.531"E
RW30	04°00'00.880"N	009°43'51.520"E

INSTRUMENT APPROACH CHART
Categories A-B-C-D

AERODROME ELEV: 34
THR RWY 12 ELEV: 34
HEIGHTS RELATED TO AERODROME ELEV

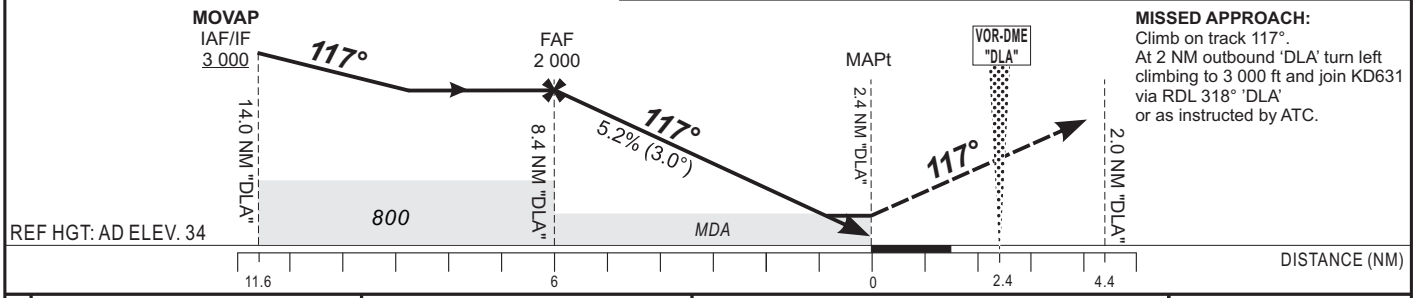
APP : 129.5
TWR : 119.7

DOUALA / Intl (FKKD)
VOR RWY 12



TRANSITION ALTITUDE: 3 500

FAF	8	7	6	5	DISTANCE TO DME 'DLA' (NM)
2 000	1 870	1 550	1 230	910	ALTITUDE (FT)



MISSED APPROACH:
Climb on track 117°.
At 2 NM outbound 'DLA' turn left climbing to 3 000 ft and join KD631 via RDL 318° 'DLA'
or as instructed by ATC.

CAT	VOR-DME				CIRCLING 1			
	OCA (OCH)	MDA	MDH	RVR	OCA (OCH)	MDA	MDH	VIS
A	604 (570)	610	(570)	2600	653 (619)	660	(620)	2600
B	604 (570)	610	(570)	2600	725 (691)	730	(700)	2600
C	604 (570)	610	(570)	2600	823 (789)	830	(790)	2600
D	604 (570)	610	(570)	2600	823 (789)	830	(790)	3600

Timing	FAF / THR 6.0 NM		
KT	MIN SEC	KT	MIN SEC
90	4 Min 00	140	2 Min 34
100	3 Min 36	150	2 Min 24
110	3 Min 16	160	2 Min 15
120	3 Min 00	170	2 Min 07
130	2 Min 46	180	2 Min 00

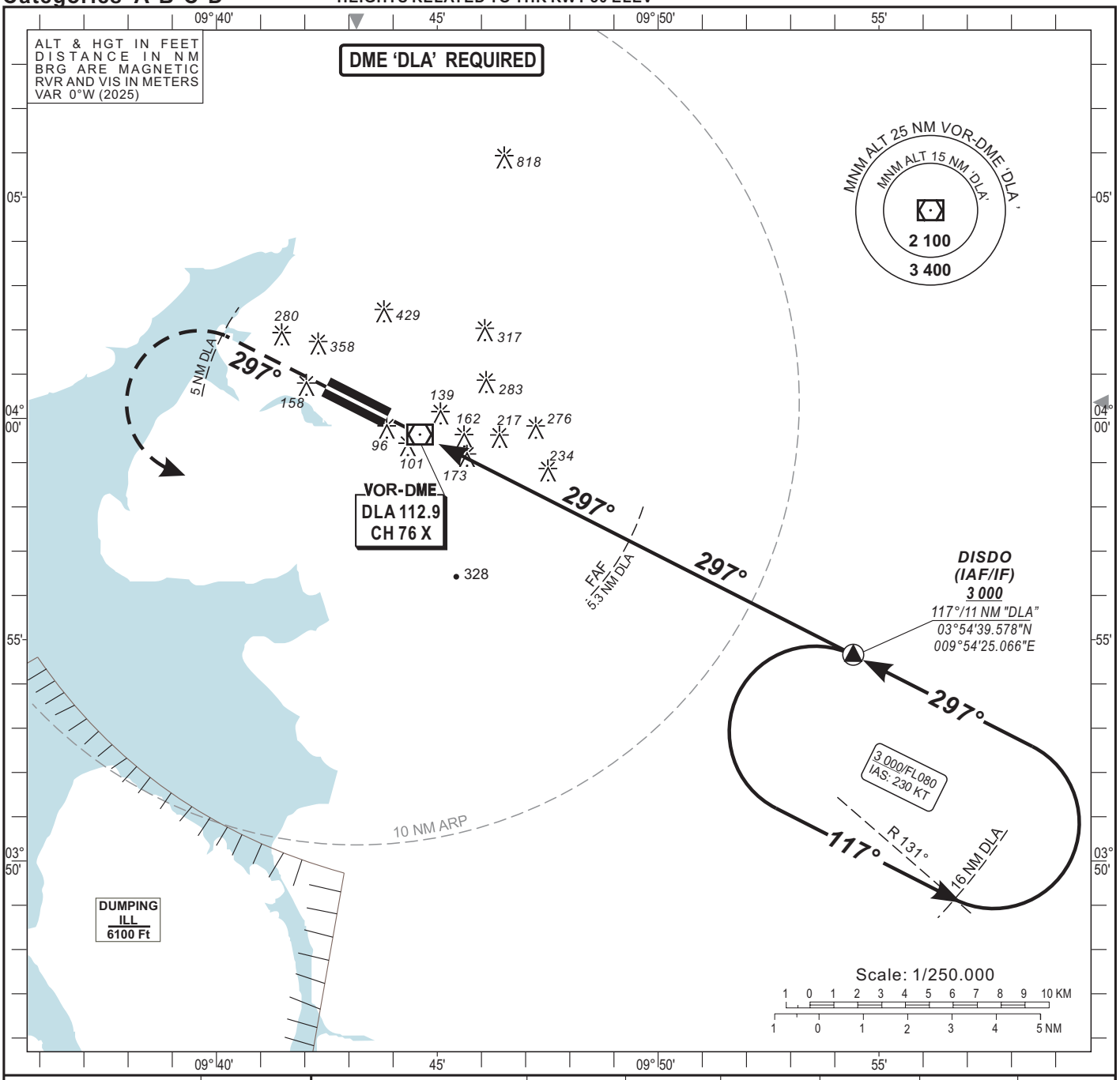
Notes:
1 Daytime only

INSTRUMENT APPROACH CHART
Categories A-B-C-D

AERODROME ELEV: 34
THR RWY 30 ELEV: 14
HEIGHTS RELATED TO THR RWY 30 ELEV

APP : 129.5
TWR : 119.7

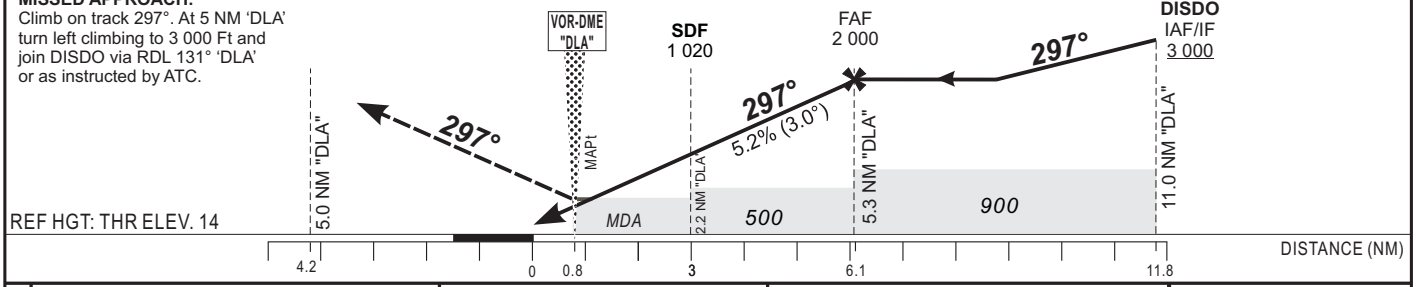
DOUALA / Intl (FKKD)
VOR RWY 30



TRANSITION ALTITUDE: 3 500

DISTANCE TO DME 'DLA' (NM)	1	2	3	4	5	FAF
ALTITUDE (FT)	640	955	1 275	1 595	1 910	2 000

MISSED APPROACH:
Climb on track 297°. At 5 NM 'DLA' turn left climbing to 3 000 Ft and join DISDO via RDL 131° 'DLA' or as instructed by ATC.



CAT	VOR-DME					CIRCLING 3				
	OCA (OCH)		MDA	MDH	RVR 1	RVR 2	OCA (OCH)		MDA	MDH	VIS
A	463	(449)	470	(450)	1400	2100	653	(619)	660	(620)	2600
B	463	(449)	470	(450)	1400	2100	725	(691)	730	(700)	2600
C	463	(449)	470	(450)	1400	2100	823	(789)	830	(790)	2600
D	463	(449)	470	(450)	1400	2100	823	(789)	830	(790)	3600

Timing — FAF / THR 6.1 NM

KT	MIN SEC	KT	MIN SEC
90	4 Min 04	140	2 Min 37
100	3 Min 40	150	2 Min 26
110	3 Min 20	160	2 Min 17
120	3 Min 03	170	2 Min 09
130	2 Min 49	180	2 Min 02

Notes:
1 With approach lights
2 Without approach lights
3 Daytime only. OCH and MDH AAL

STANDARD DEPARTURE CHART
I N S T R U M E N T (S I D)
C a t e g o r i e s A - B - C - D

APP 129.5
TWR 119.7

DOUALA / Intl (FKKD)
RWY 12
GALMO 1G, GAPKI 1G, GUKAV 1G, GASUB 1G, EDGAD 1G

ELEV. & ALT IN FEET
DISTANCE IN NM
BRG ARE MAGNETIC
VAR 0°W (2025)

Notes:

CONTINUOUS CLIMB OPERATIONS (CCO)

RNP 1

TRANSITION ALTITUDE: 3 500

WGS 84

GALMO
GAPKI
343° 31.8
GALMO 1G
027° 42.1
GAPKI 1G
KD414
FL100
343° 17.0
KD413
027° 12.0
GUKAV 1G
085° 61.0
GUKAV
117°
KD411
207° 8.0
KD412
FL080
256° 37.8
EDGAD 1G
EDGAD
GASUB 1G
178° 45.4
GASUB

MNM ALT 25 NM ARP
MNM ALT 15 NM ARP
2 100
3 400

13 215
FKP 7
FL250
GND

DUMPING
ILL
6100 Ft

818
429
1 772

Level restrictions at KD412 and KD414 could be cancelled under ATC clearance if there is no conflict with arrival traffic on STAR RWY 12

Omnidirectionnal departures: Climb straight ahead to 1 000 ft and then proceed to your destination. Miinimum climb gradient, 3.3%.

GALMO 1G: Heading 117° to KD411, then turn left to KD413, then turn left to KD414 at or above FL100 and proceed to GALMO. Minimum climb gradient 3.3%.

GAPKI 1G: Heading 117° to KD411, then turn left to KD413 and proceed to GAPKI. Minimum climb gradient 3.3%.

GUKAV 1G: Heading 117° to KD411, then turn left and proceed to GUKAV. Minimum climb gradient 3.3%.

GASUB 1G: Heading 117° to KD411, then turn right to KD412 at or below FL080 then turn left and proceed to GASUB. Minimum climb gradient 3.3%.

EDGAD 1G: Heading 117° to KD411, then turn right to KD412 at or below FL080, then turn right and proceed to EDGAD. Minimum climb gradient 3.3%.

10 000
8 000
6 000
4 000
2 000
1 000

Scale: 1/500 000
10 KM
5 NM

TABULAR DESCRIPTION

Serial Number	Path Descriptor	Waypoint Ident.	Fly Over	Course °M (T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	NAV. Spec.
GALMO 1G										
010	CF	KD411	-	117 (116.6)	+0.0	-	-	-	-265	RNP 1
020	TF	KD413	-	027 (027.4)	-	12.0	L	-	-	RNP 1
030	TF	KD414	-	343 (343.4)	-	17.0	L	+FL100	-	RNP 1
040	TF	GALMO	-	343 (343.4)	-	31.8	-	-	-	RNP 1
GAPKI 1G										
010	CF	KD411	-	117 (116.8)	+0.0	-	-	-	-265	RNP 1
020	TF	KD413	-	027 (027.4)	-	12.0	L	-	-	RNP 1
030	TF	GAPKI	-	027 (027.4)	-	42.7	-	-	-	RNP 1
GUKAV 1G										
010	CF	KD411	-	117 (116.8)	+0.0	-	-	-	-265	RNP 1
020	TF	GUKAV	-	085 (084.6)	-	61.0	-	-	-	RNP 1
GASUB 1G										
010	CF	KD411	-	117 (116.8)	+0.0	-	-	-	-265	RNP 1
020	TF	KD412	-	207 (206.8)	-	8.0	R	-FL080	-	RNP 1
030	TF	GASUB	-	178 (177.9)	-	45.4	L	-	-	RNP 1
EDGAD 1G										
010	CF	KD411	-	117 (116.8)	+0.0	-	-	-	-265	RNP 1
020	TF	KD412	-	207 (206.8)	-	8.0	R	-FL080	-	RNP 1
030	TF	EDGAD	-	256 (255.9)	-	37.8	R	-	-	RNP 1

WAYPOINTS LIST

Waypoint	Latitude	Longitude
KD411	03°57'48.008"N	009°48'13.568"E
KD412	03°50'37.407"N	009°44'37.164"E
KD413	04°08'30.291"N	009°53'45.242"E
KD414	04°24'52.813"N	009°48'54.395"E
GALMO	04°55'31.963"N	009°39'49.341"E
GAPKI	04°46'32.880"N	010°13'25.375"E
GUKAV	04°03'32.292"N	010°49'01.429"E
GASUB	03°05'00.845"N	009°46'18.340"E
EDGAD	03°41'19.555"N	009°07'55.407"E

STANDARD DEPARTURE CHART
I N S T R U M E N T (S I D)
C a t e g o r i e s A - B - C - D

APP 129.5
TWR 119.7

DOUALA / Intl (FKKD)
RWY 30
GALMO 1B, GAPKI 1B, GUKAV 1B, GASUB 1B, ERPIS 1B

ELEV. & ALT IN FEET
DISTANCE IN NM
BRG ARE MAGNETIC
VAR 0°W (2025)

Notes:

CONTINUOUS CLIMB OPERATIONS (CCO)

RNP 1

TRANSITION ALTITUDE: 3 500

WGS 84

GALMO
GAPKI
GUKAV
ERPIS
KD422 FL080
KD423 FL090
KD421
KD424
KD425 FL080

357° 44.5 GALMO 1B
041° 47.1 GAPKI 1B
096° 17.3 GUKAV 1B
096° 49.8
027° 9.0
297°
207° 5.0
250° 35.6 ERPIS 1B
169° 8.7
169° 45.4 GASUB 1B

MNM ALT 25 NM ARP
MNM ALT 15 NM ARP
2 100
3 400

13 215
FKP 7
FL250
GND

DUMPING
ILL
6100 Ft

818
429
1 772

Level restrictions at KD422, KD423 and KD425 could be cancelled under ATC clearance if there is no conflict with arrival traffic on STAR RWY 30

Omnidirectionnal departures: Climb straight ahead to 1 000 ft and then proceed to your destination. Minimum climb gradient: 3.7% until 1000 ft, then 3.3%.

GALMO 1B: Heading 297° to KD421, then turn right to KD422 at or below FL080 then turn left and proceed to GALMO. Minimum climb gradient: 3.7% until KD421, then 3.3%.

GAPKI 1B: Heading 297° to KD421, then turn right to KD422 at or below FL080 then turn right and proceed to GAPKI. Minimum climb gradient: 3.7% until KD421, then 3.3%.

GUKAV 1B: Heading 297° to KD421, then turn right to KD422 at or below FL080, then turn right to KD423 at or above FL090 and proceed GUKAV. Minimum climb gradient: 3.7% until KD421, then 3.3%.

GASUB 1B: Heading 297° to KD421, then turn left to KD424, then turn left to KD425 at or above FL080 and proceed to GASUB. Minimum climb gradient: 3.7% until KD421, then 3.3%.

EDGAD 1B: Heading 297° to KD421, then turn left and proceed to EDGAD. Minimum climb gradient: 3.7% until KD421, then 3.3%.

10 000
8 000
6 000
4 000
2 000
1 000

Scale: 1/500 000
1 0 1 2 3 4 5 6 7 8 9 10 KM
1 0 1 2 3 4 5 NM

TABULAR DESCRIPTION

Serial Number	Path Descriptor	Waypoint Ident.	Fly Over	Course °M (T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	NAV. Spec.
GALMO 1B										
010	CF	KD421	-	297 (296.8)	+0.0	-	-	-	-265	RNP 1
020	TF	KD422	-	027 (026.8)	-	9.0	R	-FL080	-	RNP 1
030	TF	GALMO	-	357 (356.8)	-	44.5	L	-	-	RNP 1
GAPKI 1B										
010	CF	KD421	-	297 (296.8)	+0.0	-	-	-	-265	RNP 1
020	TF	KD422	-	027 (026.8)	-	9.0	R	-FL080	-	RNP 1
030	TF	GAPKI	-	041 (041.2)	-	47.1	R	-	-	RNP 1
GUKAV 1B										
010	CF	KD421	-	297 (296.8)	+0.0	-	-	-	-265	RNP 1
020	TF	KD422	-	027 (026.8)	-	9.0	R	-FL080	-	RNP 1
030	TF	KD423	-	096 (096.3)	-	17.3	R	+FL090	-	RNP 1
040	TF	GUKAV	-	096 (096.3)	-	49.8	-	-	-	RNP 1
GASUB 1B										
010	CF	KD421	-	297 (296.8)	+0.0	-	-	-	-265	RNP 1
020	TF	KD424	-	207 (206.8)	-	5.0	L	-	-	RNP 1
030	TF	KD425	-	169 (169.0)	-	8.7	L	+FL080	-	RNP 1
040	TF	GASUB	-	169 (169.0)	-	45.4	-	-	-	RNP 1
EDGAD 1B										
010	CF	KD421	-	297 (296.8)	+0.0	-	-	-	-265	RNP 1
020	TF	ERPIS	-	250 (250.4)	-	35.6	L	-	-	RNP 1

WAYPOINTS LIST

Waypoint	Latitude	Longitude
KD421	04°02'51.384"N	009°38'15.116"E
KD422	04°10'55.803"N	009°42'18.642"E
KD423	04°09'01.936"N	009°59'31.300"E
KD424	03°58'22.253"N	009°35'59.859"E
KD425	03°49'47.321"N	009°37'39.423"E
GALMO	04°55'31.963"N	009°39'49.341"E
GAPKI	04°46'32.880"N	010°13'25.375"E
GUKAV	04°03'32.292"N	010°49'01.429"E
GASUB	03°05'00.845"N	009°46'18.340"E
ERPIS	03°50'50.491"N	009°04'42.471"E

STANDARD ARRIVAL CHART INSTRUMENT (STAR) Categories A-B-C-D

APP 129.5
TWR 119.7

DOUALA / Intl (FKKD)
RWY 12
AKBIP 1E, APSET 1E, UMUSO 1E, AMGOS 1E, ERPIS 1E

ELEV. & ALT IN FEET
DISTANCE IN NM
BRG ARE MAGNETIC
VAR 0°W (2025)

Notes:

CONTINUOUS DESCENT OPERATIONS (CDO)

RNP 1

TRANSITION ALTITUDE: 3 500

WGS 84

AKBIP
DTG 59.2 THR12

APSET
DTG 67.0 THR12

216° 24.5 3 500 (*)

176° 47.6 3 000 (*)

AKBIP 1E

APSET 1E

25 NM TO MOVAP
14 300
10 NM TO MOVAP
3 000
207°
027°
MOVAP

KD612
FL090
DTG 42.5 THR12

216° 24.9 2 200 (*)

Level restrictions at KD611 and KD612 could be cancelled under ATC clearance if there is no conflict with departure traffic on SID RWY 12

13 215
FKP 7
FL250
GND

ARGUD
3 000, IAS. 230 kt max.
DTG 17.6 THR12

207° 6.0

MOVAP
3 000, IAS. 230 kt max.
DTG 11.6 THR12

25 NM TO ARGUD
ARGUD IF
207°
297°
2 200

818
1 772

RUMLO
3 000, IAS. 230 kt max.
DTG 17.6 THR12

027° 6.0

117°

358
429
317

297° 16.0 2 100 (*)

UMUSO 1E, AMGOS 1E

069° 26.5 2 100 (*)

ERPIS 1E

KD611
FL090
DTG 33.6 THR12

297° 9.0 2 100 (*)

ERPIS
DTG 44.1 THR12

RAVOP
DTG 42.6 THR12

274° 57.4 2 500 (*)

UMUSO 1E

UMUSO
DTG 100.0 THR12

DUMPING
ILL
6100 Ft

IF RUMLO
297°
027°
2 100
25 NM TO RUMLO

AKBIP 1E: From AKBIP heading 176° to MOVAP at or above 3 000 ft.

APSET 1E: From APSET, heading 216° to KD612 at or below FL090, then ARGUD at or above 3 000 ft.

UMUSO 1E: From UMUSO heading 274° to RAVOP, then turn right to KD611 at or above FL090, then RUMLO at or above 3 000 ft.

AMGOS 1E: From AMGOS heading 353° to RAVOP, then turn left to KD611 at or above FL090, then RUMLO at or above 3 000 ft.

ERPIS 1E: From ERPIS heading 069° to RUMLO at or above 3 000 ft.

(*) Minimum obstacle clearance altitude

353° 42.5 2 100 (*)

AMGOS 1E

AMGOS
DTG 85.1 THR12

10 000
8 000
6 000
4 000
2 000
1 000

Scale: 1/500 000
1 0 1 2 3 4 5 6 7 8 9 10 KM
1 0 1 2 3 4 5 NM

TABULAR DESCRIPTION

Serial Number	Path Descriptor	Waypoint Ident.	Fly Over	Course °M (T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	NAV. Spec.
AKBIP 1E										
010	IF	AKBIP	-	-	-	-	-	-	-	RNP 1
020	TF	MOVAP	-	176 (176.2)	-	47.6	-	+3000	-230	RNP 1
APSET 1E										
010	IF	APSET	-	-	-	-	-	-	-	RNP 1
020	TF	KD612	-	216 (215.7)	-	24.5	-	-FL090	-	RNP 1
030	TF	ARGUD	-	216 (215.7)	-	24.9	-	+3000	-230	RNP 1
UMUSO 1E										
010	IF	UMUSO	-	-	-	-	-	-	-	RNP 1
020	TF	RAVOP	-	274 (273.7)	-	57.4	-	-	-	RNP 1
030	TF	KD611	-	297 (296.8)	-	9.0	R	+FL090	-	RNP 1
040	TF	RUMLO	-	297 (296.8)	-	16.0	-	+3000	-230	RNP 1
AMGOS 1E										
010	IF	AMGOS	-	-	-	-	-	-	-	RNP 1
020	TF	RAVOP	-	353 (352.7)	-	42.5	-	-	-	RNP 1
030	TF	KD611	-	297 (296.8)	-	9.0	L	+FL090	-	RNP 1
040	TF	RUMLO	-	297 (296.8)	-	16.0	-	+3000	-230	RNP 1
ERPIS 1E										
010	IF	ERPIS	-	-	-	-	-	-	-	RNP 1
020	TF	RUMLO	-	069 (068.6)	-	26.5	-	+3000	-230	RNP 1

WAYPOINTS LIST

Waypoint	Latitude	Longitude
KD611	03°53'20.905"N	009°43'41.485"E
KD612	04°31'40.337"N	009°49'20.336"E
AKBIP	04°53'44.012"N	009°28'56.931"E
AMGOS	03°06'54.605"N	009°57'08.338"E
APSET	04°51'39.973"N	010°03'39.383"E
ARGUD	04°11'21.342"N	009°34'48.444"E
ERPIS	03°50'50.491"N	009°04'42.471"E
MOVAP	04°05'58.369"N	009°32'06.141"E
RAVOP	03°49'16.668"N	009°51'42.690"E
RUMLO	04°00'35.385"N	009°29'23.875"E
UMUSO	03°45'36.000"N	010°49'00.000"E

STANDARD ARRIVAL CHART INSTRUMENT (STAR) Categories A-B-C-D

APP 129.5
TWR 119.7

DOUALA / Intl (FKKD)
RWY 30
AKBIP 1A, ARDOP 1A, UMUSO 1A, AMGOS 1A, EDGAD 1A

ELEV. & ALT IN FEET
DISTANCE IN NM
BRG ARE MAGNETIC
VAR 0°W (2025)

Notes:

CONTINUOUS DESCENT OPERATIONS (CDO)

RNP 1

TRANSITION ALTITUDE: 3 500

WGS 84

AKBIP
DTG 85.4 THR30

172° 42.6 4 200 (*)

AKBIP 1A

25 NM TO LIKOG 4 200
10 NM TO LIKOG 207° 1 900
117°
LIKOG IF

ARDOP
DTG 64.3 THR30

212° 33.5 4 200 (*)

ARDOP 1A

Level restrictions at KD622, KD623 and KD624 could be cancelled under ATC clearance if there is no conflict with departure traffic on SID RWY 30

13 215
FKP 7
FL250
GND

ARGUD
DTG 42.8 THR30

117° 10.0 2 100 (*)

KD623
FL090
DTG 32.8 THR30

818

117° 15.0 2 100 (*)

358 429 317

KD622
FL080
DTG 30.8 THR30

212° 13.0 2 100 (*)

1 772

LIKOG
3 000, IAS. 230 kt max.
DTG 17.8 THR30

298°

208° 6.0

DISDO
3 000, IAS. 230 kt max.
DTG 11.8 THR30

028° 6.0

297° 15.6 2 100 (*)

UMUSO 1A

273° 40.7 4 300 (*)

UMUSO
DTG 68.1 THR30

KD621
DTG 27.4 THR30

25 NM TO RAVOP 2 100
117° 027°
IF RAVOP

DUMPING ILL 6100 Ft

080° 16.7 2 100 (*)

RAVOP
3 000, IAS. 230 kt max.
DTG 17.8 THR30

080° 27.8 2 100 (*)

EDGAD 1A

KD624
FL070
DTG 34.5 THR30

EDGAD
DTG 62.3 THR30

DISDO
207° 027°
2 100
10 NM TO DISDO
4 300
25 NM TO DISDO

357° 47.6 2 100 (*)

AMGOS 1A

AMGOS
DTG 59.4 THR30

AKBIP 1A: From AKBIP, heading 172° to ARGUD, then turn left to KD623 at or above FL090, then LIKOG at or above 3 000 ft.

ARDOP 1A: From ARDOP heading 212° to KD622 at or below FL080, then LIKOG at or above 3 000 ft.

UMUSO 1A: From UMUSO heading 273° to KD621, then turn right to DISDO at or above 3 000 ft.

AMGOS 1A: From AMGOS heading 357° to DISDO at or above 3 000 ft.

EDGAD 1A: From EDGAD heading 080° to KD624 at or below FL070, then RAVOP at or above 3 000 ft.

(*) Minimum obstacle clearance altitude

10 000
8 000
6 000
4 000
2 000
1 000

Scale: 1/500 000
1 0 1 2 3 4 5 6 7 8 9 10 KM
1 0 1 2 3 4 5 NM

TABULAR DESCRIPTION

Serial Number	Path Descriptor	Waypoint Ident.	Fly Over	Course °M (T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	NAV. Spec.
AKBIP 1A										
010	IF	AKBIP	-	-	-	-	-	-	-	RNP 1
020	TF	ARGUD	-	172 (172.1)	-	42.6	-	-	-	RNP 1
030	TF	KD623	-	117 (116.8)	-	10.0	L	+FL090	-	RNP 1
040	TF	LIKOG	-	117 (116.8)	-	15.0	-	+3000	-230	RNP 1
ARDOP 1A										
010	IF	ARDOP	-	-	-	-	-	-	-	RNP 1
020	TF	KD622	-	212 (212.2)	-	33.5	-	-FL080	-	RNP 1
030	TF	LIKOG	-	212 (212.2)	-	13.0	-	+3000	-230	RNP 1
UMUSO 1A										
010	IF	UMUSO	-	-	-	-	-	-	-	RNP 1
020	TF	KD621	-	273 (272.6)	-	40.7	-	-	-	RNP 1
030	TF	DISDO	-	297 (297.4)	-	15.6	R	+3000	-230	RNP 1
AMGOS 1A										
010	IF	AMGOS	-	-	-	-	-	-	-	RNP 1
020	TF	DISDO	-	357 (356.7)	-	47.6	-	+3000	-230	RNP 1
EDGAD 1A										
010	IF	EDGAD	-	-	-	-	-	-	-	RNP 1
020	TF	KD624	-	080 (079.8)	-	27.8	-	-FL070	-	RNP 1
030	TF	RAVOP	-	080 (079.8)	-	16.7	-	+3000	-230	RNP

WAYPOINTS LIST

Waypoint	Latitude	Longitude
KD621	03°47'26.760"N	010°08'17.000"E
KD622	04°11'05.467"N	010°04'03.850"E
KD623	04°06'49.674"N	009°43'44.523"E
KD624	03°46'17.990"N	009°35'17.270"E
AKBIP	04°53'44.012"N	009°28'56.931"E
ARGUD	04°11'21.342"N	009°34'48.444"E
ARDOP	04°39'34.482"N	010°21'58.272"E
LIKOG	04°00'02.479"N	009°57'07.476"E
UMUSO	03°45'36.000"N	010°49'00.000"E
DISDO	03°54'39.578"N	009°54'25.066"E
RAVOP	03°49'16.668"N	009°51'42.690"E
AMGOS	03°06'54.605"N	009°57'08.338"E
EDGAD	03°41'19.555"N	009°07'55.407"E

STANDARD ARRIVAL CHART - INSTRUMENT (STAR VOR-DME)
Categories A-B-C-D

APP 129.5
TWR 119.7

DOUALA / Intl (FKKD)
RWY 12
KOKAM 1M, ONILO 1M, EDEBA 1M, ETNOM 1M, BTA 1M, MBO 1M

ELEV. & ALT IN FEET
DISTANCE IN NM
BRG ARE MAGNETIC
VAR 0°W (2025)

TRANSITION ALTITUDE: 3 500

25' 09°30' 35' 09°40' 45' 09°50' 55' 10°00'

25' 04°20' 15' 04°10' 05' 04°00' 55' 03°50' 45' 03°40' 35'

KOKAM
340°/31.5 NM "DLA"

ONILO
032°/29.9 NM "DLA"

MNM ALT 25 NM VOR-DME 'DLA'
MNM ALT 15 NM 'DLA'
2 100
3 400

KOKAM 1M
2 100 (*)
160°

ONILO 1M
2 100 (*)
212°

340°/16 NM "DLA"

032°/16 NM "DLA"

14 NM "DLA"
2 100 (*)

150°

330°

19 NM "DLA"

R 319°

3 000/FL080
IAS: 230 KT

KD631
04°11'49.1"N-009°37'36.1"E
R 330°/14 NM "DLA"
3000

R 306°

MOVAP
297°/14 NM "DLA"
3000

R 288°

R 297°

818
429
317
358
328
1 024

14 NM "DLA"
2 100 (*)

VOR-DME
DLA 112.9
CH 76 X

EDEBA 1M
2 100 (*)

EDEBA
098°/25.2 NM "DLA"

278°

098°/16 NM "DLA"

258°/16 NM "DLA"

MBO 1M
078°
5 700 (*)

MBO
258°/62.8 NM "DLA"

DUMPING
ILL
6100 Ft

147°/16 NM "DLA"

327°

ETNOM 1M
4 600 (*)

178°/16 NM "DLA"

358°

BTA 1M
3 000 (*)

BTA VOR
178°/124.9 NM "DLA"

ETNOM
147°/107.8 NM "DLA"

(*) Minimum obstacle clearance altitude

Scale : 1/300.000
1 0 1 2 3 4 5 6 7 8 9 10 KM
1 0 1 2 3 4 5 NM

STANDARD ARRIVAL CHART - INSTRUMENT (STAR VOR-DME)
Categories A-B-C-D

APP 129.5
TWR 119.7

DOUALA / Intl (FKKD)
RWY 30
KOKAM 1D, ONILO 1D, EDEBA 1D, ETNOM 1D, BTA 1D, MBO 1D

ELEV. & ALT IN FEET
DISTANCE IN NM
BRG ARE MAGNETIC
VAR 0°W (2025)

TRANSITION ALTITUDE: 3 500

KOKAM
340°/31.5 NM "DLA"

ONILO
032°/29.9 NM "DLA"

MNM ALT 25 NM VOR-DME 'DLA'
MNM ALT 15 NM 'DLA'
2 100
3 400

KOKAM 1D
2 100 (*)
160°

ONILO 1D
2 100 (*)
212°

340°/13 NM "DLA"
032°/13 NM "DLA"

11 NM "DLA"
2 100 (*)

818
429
358
317
1 024
328

VOR-DME
DLA 112.9
CH 76 X

297°
R 105°

EDEBA
098°/25.2 NM "DLA"

EDEBA 1D
2 100 (*)
246°
278°
098°/16 NM "DLA"

DISDO
117°/11 NM "DLA"
3000

R 129°
297°
3 000/FL080
IAS: 230 KT
R 131°
117°
16 NM "DLA"

258°/13 NM "DLA"
MBO 1D
5 700 (*)
078°

MBO
258°/62.8 NM "DLA"

DUMPING
ILL
6100 Ft

11 NM "DLA"
2 100 (*)

147°/13 NM "DLA"

178°/13 NM "DLA"

BTA 1D
3 000 (*)
358°

BTA VOR
178°/124.9 NM "DLA"

ETNOM 1D
4 600 (*)
327°

ETNOM
147°/107.8 NM "DLA"

(*) Minimum obstacle clearance altitude

Scale : 1/300.000
1 0 1 2 3 4 5 6 7 8 9 10 KM
1 0 1 2 3 4 5 NM