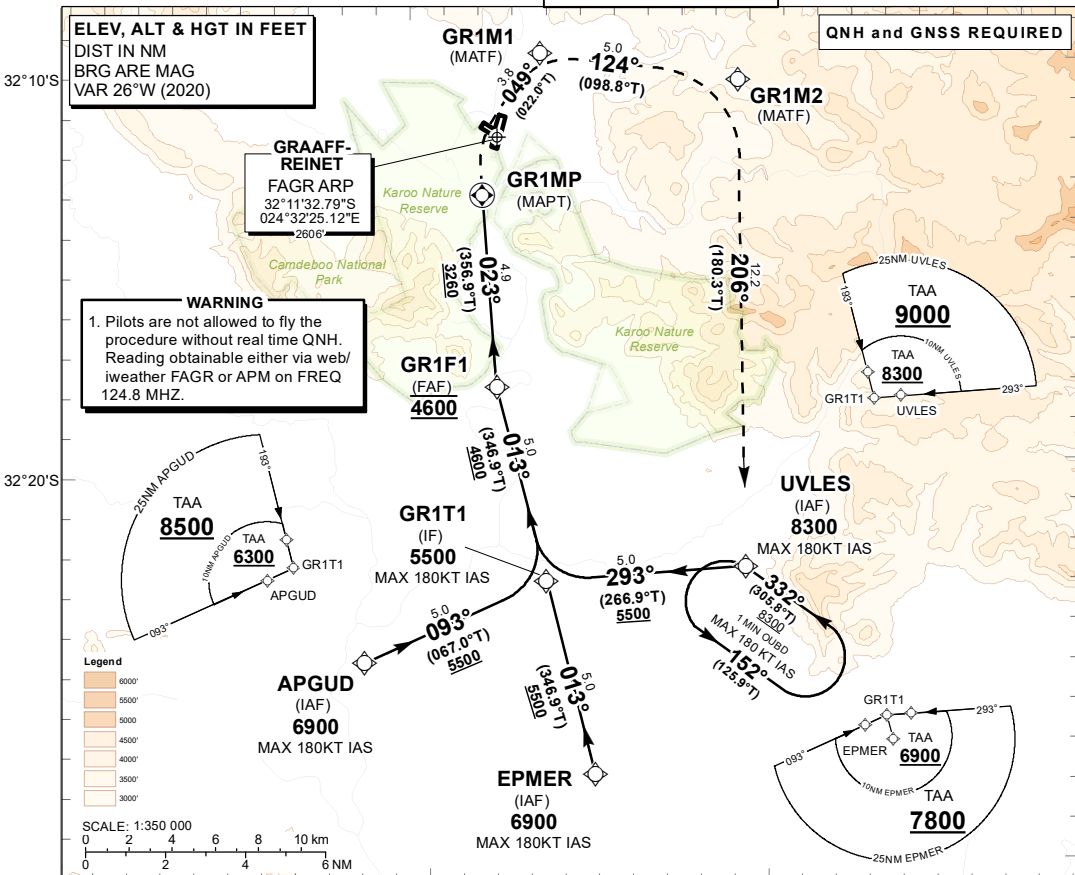


INSTRUMENT APPROACH CHART

AERODROME ELEV 2606'
HEIGHTS RELATED TO
AERODROME - ELEV 2606'

TIBA: 124.8

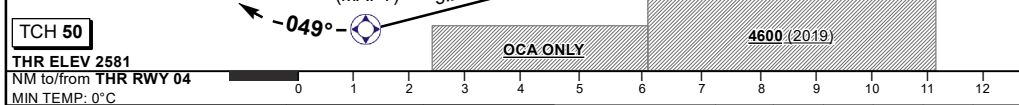
GRAAFF REINET
RNAV (GNSS) RWY 04
CAT A - B



DIST (NM) to MAPT	6.04	6	5	4	3	2	1
ADVISORY ALT (HGT)	4600 (1994)	4590 (1984)	4270 (1664)	3950 (1344)	3630 (1024)	3300 (694)	2980 (374)

TRANSITION ALT 9000
TRANSITION LEVEL ATC

MISSED APPROACH:
Climb to 8300FT ALT. Turn right direct to GR1M1 then to GR1M2.
At GR1M2 turn right direct UVLES and enter hold at 8300FT ALT.



Offset Approach	OCA(H)			A	B	GS	KT	80	100	120	140	160		
	LNAV	FAGR QNH	2.5% Missed APCH Gradient	4300 (1694)	4350 (1744)	FAF to MAPT	M:S	4:32	3:37	3:01	2:35	2:16		
			3.5% Missed APCH Gradient	3850 (1244)	3860 (1254)	Rate of descent	FPM	425	531	637	744	850		
			4.5% Missed APCH Gradient	3500 (894)	3550 (944)	NOTE:								
			5.5% Missed APCH Gradient	3350 (744)	3420 (814)	1. MAPT at 1.2NM from THR 04.								
			6.5% Missed APCH Gradient	3220 (614)	3300 (694)	2. Hold restricted to 180KTS and at a height of 8300FT ALT.								
	Circling			3030 (424)	4210 (1604)	3. Maximum speed for Circling is 135KTS.								
					4. No turns prior MAPT.									

CHANGE: NEW Procedure

CHANGE: NEW Procedure

INSTRUMENT APPROACH CHART FOR FAGR RWY 04

Serial Number	Path Descriptor	Waypoint Identifier	LATITUDE	LONGITUDE	Flyover	FIX	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KT IAS)	VPA/TCH	Magnetic Variation (°W)	Navigation Specification
10	IF	UVLES	32°22'33.8088"S	024°39'31.5540"E	-	IAF	-	-	-	8300	180	-	26.1	RNP APCH
20	TF	GR1T1	32°22'49.6812"S	024°33'37.7964"E	-	IF	293 (266.9)	5	-	5500	180	-	26.1	RNP APCH
10	IF	EPMER	32°27'42.5808"S	024°34'57.5580"E	-	IAF	-	-	-	6900	180	-	26.1	RNP APCH
20	TF	GR1T1	32°22'49.6812"S	024°33'37.7964"E	-	IF	013 (346.9)	5	-	5500	180	-	26.1	RNP APCH
10	IF	APGUD	32°24'47.0232"S	024°28'11.5824"E	-	IAF	-	-	-	6900	180	-	26.1	RNP APCH
20	TF	GR1T1	32°22'49.6812"S	024°33'37.7964"E	-	IF	093 (067.0)	5	-	5500	180	-	26.1	RNP APCH
10	IF	GR1T1	32°22'49.6812"S	024°33'37.7964"E	-	-	-	-	-	5500	180	-	26.1	RNP APCH
20	TF	GR1F1	32°17'56.7780"S	024°32'18.1068"E	-	FAF	013 (346.9)	5	-	@4600	130	3°/50	26.1	RNP APCH
30	TF	GR1MP	32°13'07.3452"S	024°32'00.0348"E	Y	MAPT	023 (356.9)	4.82	-	OCA	-	-	26.1	RNP APCH
10	IF	GR1MP	32°13'07.3452"S	024°32'00.0348"E	-	MAPT	-	-	-	-	130	-	26.1	RNP APCH
20	DF	GR1M1	32°09'36.3096"S	024°33'46.8684"E	-	MATF	049 (022.0)	3.82	-	-	150	-	26.1	RNP APCH
30	TF	GR1M2	32°10'22.1844"S	024°39'36.0792"E	-	MATF	124 (098.8)	5	-	-	180	-	26.1	RNP APCH
40	TF	UVLES	32°22'33.8088"S	024°39'31.5540"E	-	-	206 (180.3)	12.17	-	8300	-	-	26.1	RNP APCH
50	HM	UVLES	32°22'33.8088"S	024°39'31.5540"E	Y	MAHF	332 (305.8)	-	L	+8300	180	-	26.1	RNP APCH

RNAV HOLDING

FACILITY	INBOUND TRACK	MAX/MIN FL	FACILITY
UVLES 32°22'33.8088"S 024°39'31.5540"E	332°M/305.8°T	<u>8300</u>	Left hand racecourse pattern. 1 MIN Outbound leg. MAX 180KTIAS

