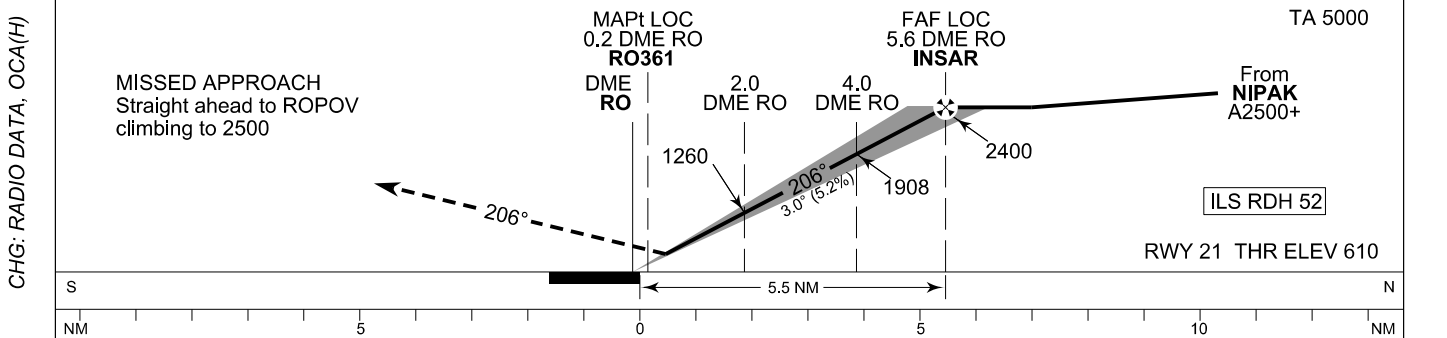
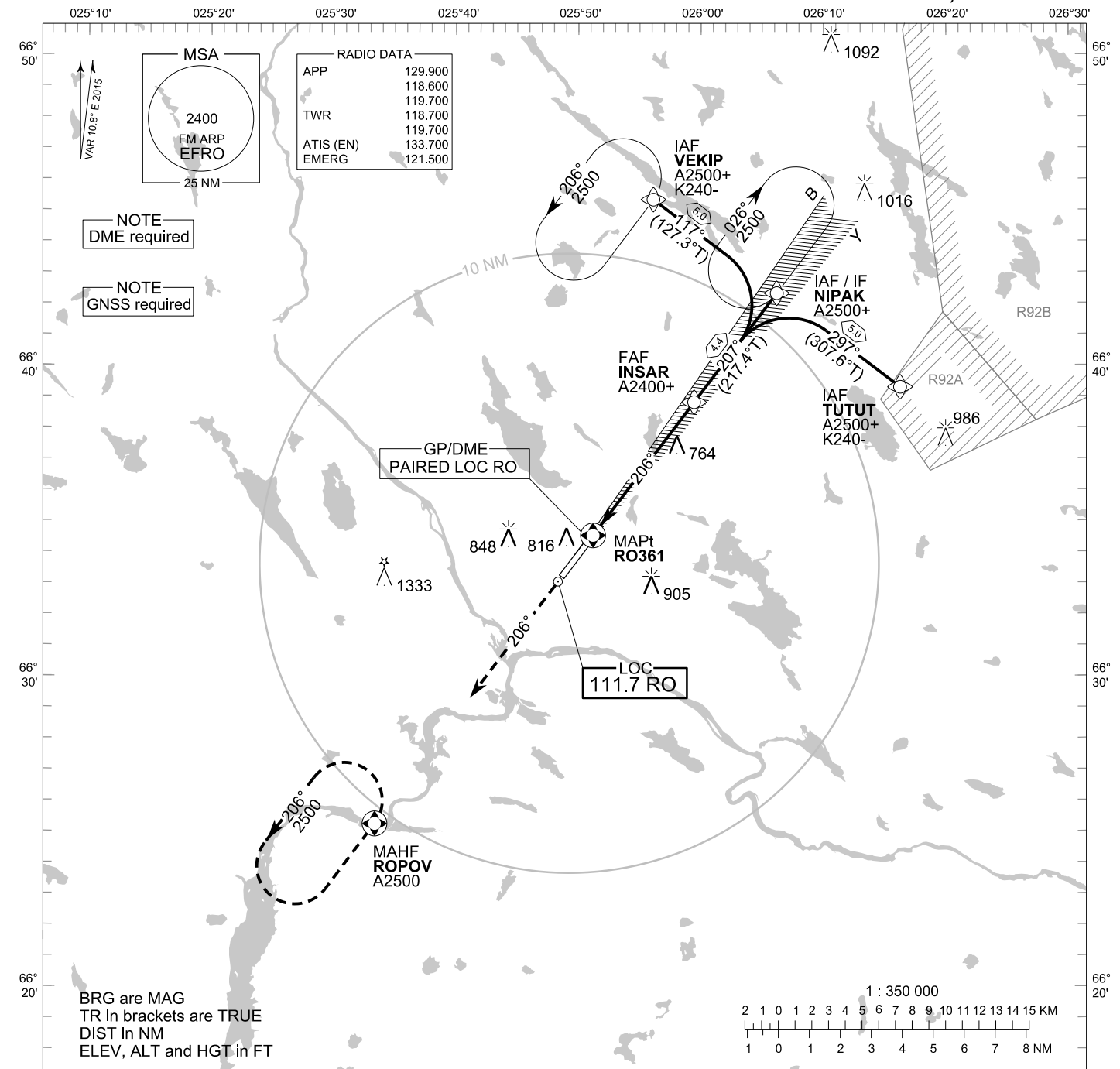


**INSTRUMENT
APPROACH CHART - ICAO**

ELEV 643 FT
HEIGHTS RELATED TO
THR RWY 21 ELEV 610 FT

**ILS Z or LOC Z RWY 21
ROVANIEMI AERODROME
ROVANIEMI, FINLAND**



OCA (H)	A	B	C	D
ILS CAT I	771 (162)	782 (173)	794 (185)	808 (199)
LOC	1010 (410)			
Circling	1120 (470)	1150 (510)	1300 (660)	1340 (690)

	kt	90	100	120	140	160
FAF - MAPt 5.4 NM	min:sec	3:36	3:14	2:42	2:19	2:02
Rate of descent	ft/min	480	530	640	740	850

Timing not authorized for defining the MAPt

EFRO ILS Z or LOC Z RWY 21										
PROC ID NAV SPEC	SEQ NR	P/T	WPT			MAG GEO TR	DIST NM	Turn Direction	Constraints	
			ID	Type	Flyover				LVL	Speed
I21 TUTUT RNP APCH	005	IF	TUTUT	IAF	-	297° 307.6°T	5.0	L	A2500+	K240-
	010	TF	NIPAK	IF	-	207° 217.4°T	4.4		A2500+	
	020	TF	INSAR	FAF LOC	-				A2400+	
	030	TF	RO361	MAPt LOC	Y	206° 216.8°T	-		A1100+	
	040	CA	-	-	-	-	-			
	050	DF	ROPOV	MAHF	Y				A2500	

EFRO ILS Z or LOC Z RWY 21										
PROC ID NAV SPEC	SEQ NR	P/T	WPT			MAG GEO TR	DIST NM	Turn Direction	Constraints	
			ID	Type	Flyover				LVL	Speed
I21 NIPAK RNP APCH	010	IF	NIPAK	IAF/IF	-	207° 217.4°T	4.4		A2500+	
	020	TF	INSAR	FAF LOC	-				A2400+	
	030	TF	RO361	MAPt LOC	Y	206° 216.8°T	-		A1100+	
	040	CA	-	-	-	-	-			
	050	DF	ROPOV	MAHF	Y				A2500	

EFRO ILS Z or LOC Z RWY 21										
PROC ID NAV SPEC	SEQ NR	P/T	WPT			MAG GEO TR	DIST NM	Turn Direction	Constraints	
			ID	Type	Flyover				LVL	Speed
I21 VEKIP RNP APCH	005	IF	VEKIP	IAF	-	117° 127.3°T	5.0	R	A2500+	K240-
	010	TF	NIPAK	IF	-	207° 217.4°T	4.4		A2500+	
	020	TF	INSAR	FAF LOC	-				A2400+	
	030	TF	RO361	MAPt LOC	Y	206° 216.8°T	-		A1100+	
	040	CA	-	-	-	-	-			
	050	DF	ROPOV	MAHF	Y				A2500	

RNAV Holdings							
ID	INBD TR	INBD MAG	Turn Direction	MAX IAS	MNM HLDG LVL	TIME	DIST NM
NIPAK	217.2°T	206°	Right	230 KT	A2500	1 MIN	-
VEKIP	037.1°T	026°	Left	230 KT	A2500	1 MIN	-
ROPOV	037.2°T	026°	Left	230 KT	A2500	1 MIN	-

WPT COORD
SEE PAGE EFRO AD 2.15 - 1

FINAL APPROACH PARAMETERS			
LOC Gradient	ILS		RDH
	CAT	GPA	
5.24 % (3.00°)	I	3.00°	52 FT