

STANDARD DEPARTURE CHART -INSTRUMENT

RJCM / MEMANBETSU

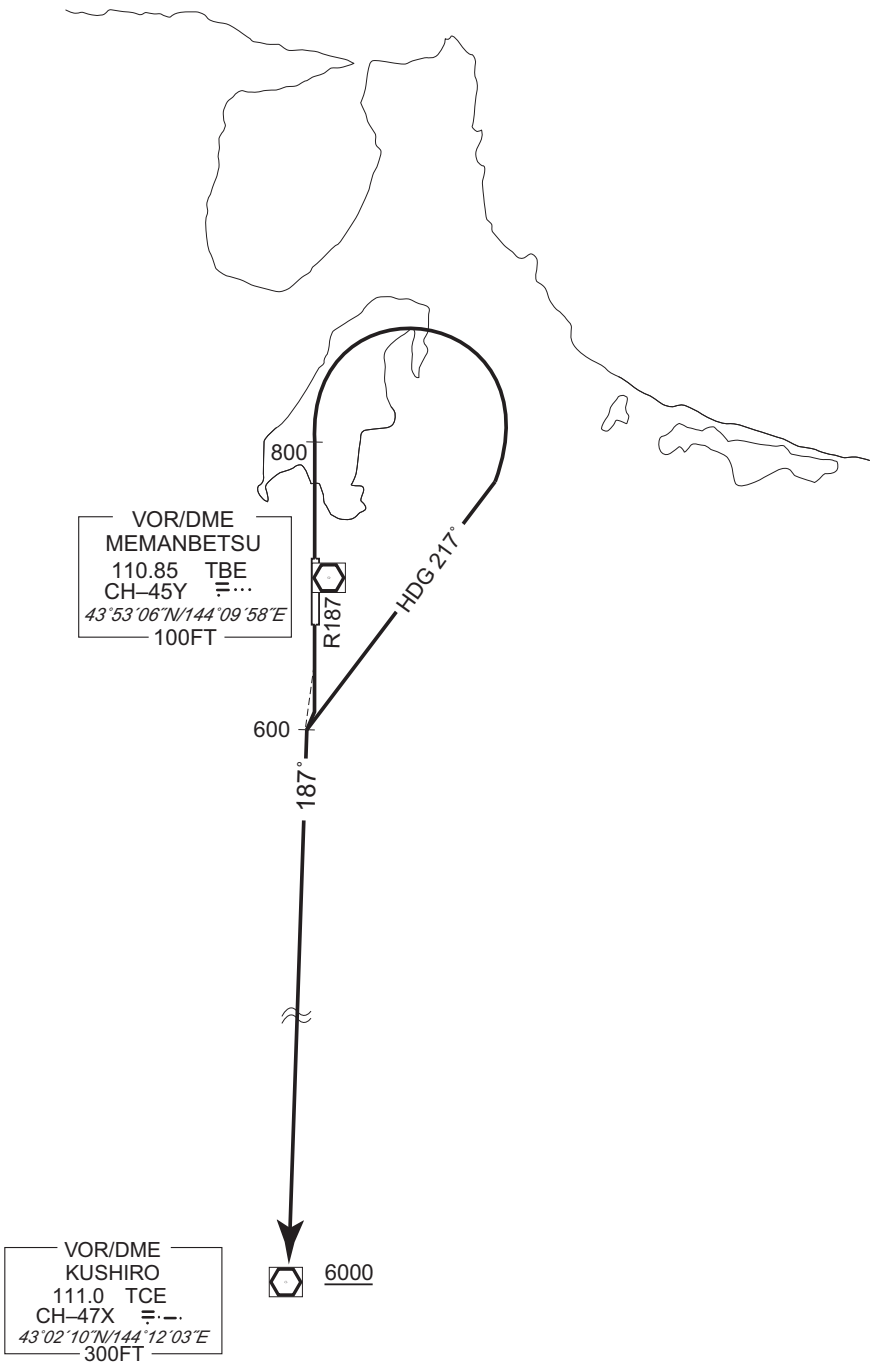
SID

KUSHIRO FOUR DEPARTURE

RWY 18 : Climb RWY HDG to 600FT, via TBE R187/TCE R008 to TCE VOR/DME....
RWY 36 : Climb RWY HDG to 800FT, turn right HDG 217° to intercept and proceed via
TBE R187/TCE R008 to TCE VOR/DME....
...Cross TCE VOR/DME at or above 6000FT.

Note RWY18 : 3.9% climb gradient required up to 4500FT.
OBST ALT 3281FT located at 17.0NM 182° FM end of RWY18.
OBST ALT 4593FT located at 24.9NM 190° FM end of RWY18.

CHANGE : PROC renamed. PROC course. ALT restriction at TCE established. KUSHIRO VOR/DME(KSE → TCE). Note(OBST).



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RUGMO ONE DEPARTURE

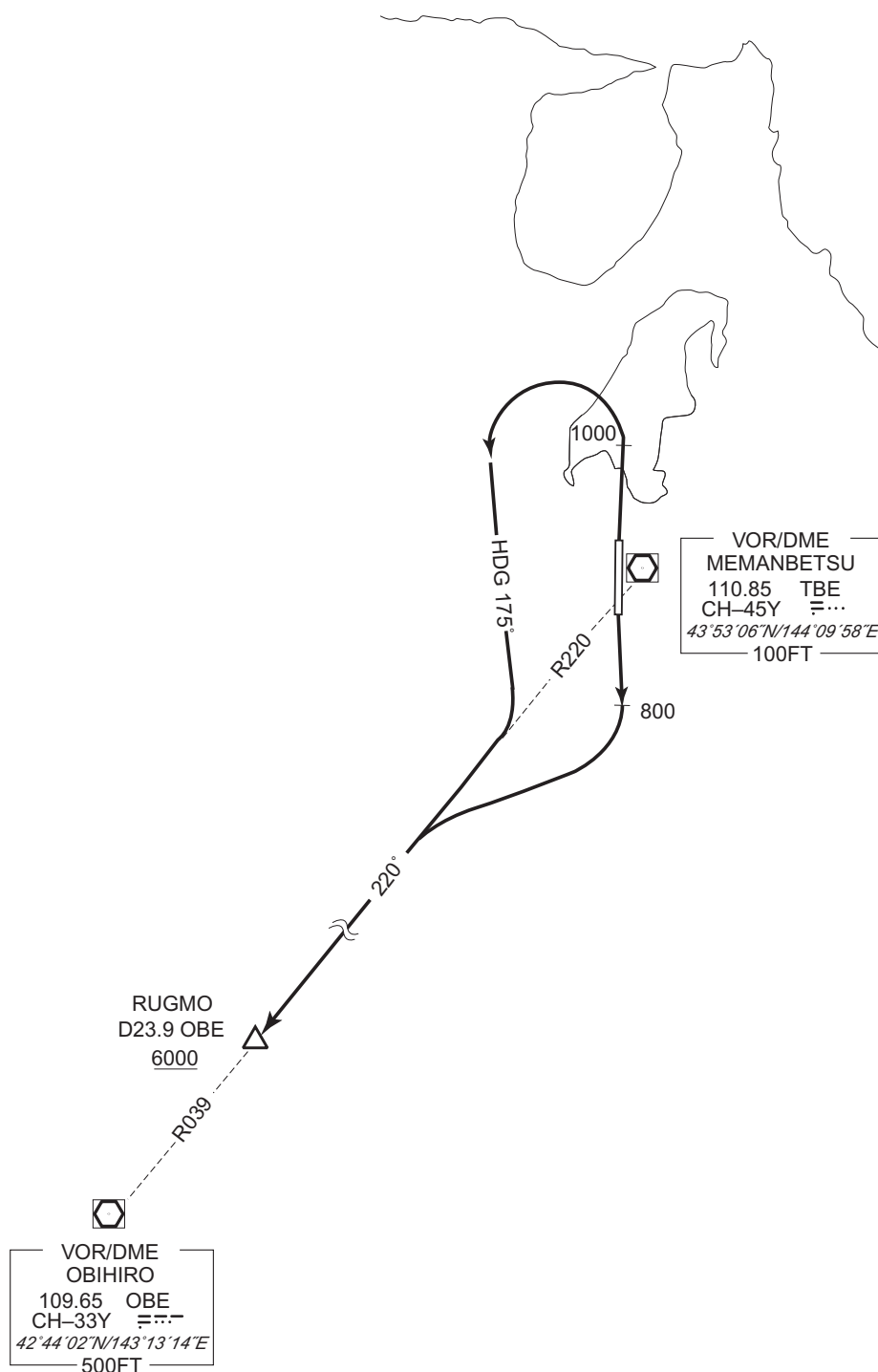
RWY 18 : Climb RWY HDG to 800FT, turn right climb via TBE R220/OBE R039 to RUGMO....

RWY 36 : Climb RWY HDG to 1000FT, turn left HDG 175° to intercept and proceed via
TBE R220/OBE R039 to RUGMO....

....Cross RUGMO at or above 6000FT.

Note RWY36 : 3.9% climb gradient required up to 2000FT.

OBST ALT 1673FT located at 8.2NM 320° FM end of RWY36.



CHANGE : New PROC.

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MEMANBETSU REVERSAL THREE DEPARTURE

RWY 18 : Climb via TBE R187 to TBE 5.0DME, turn left....

RWY 36 : Climb via TBE R001 to TBE 5.0DME, turn right,....

....Proceed to TBE VOR/DME. Cross TBE VOR/DME at or above 4000FT.



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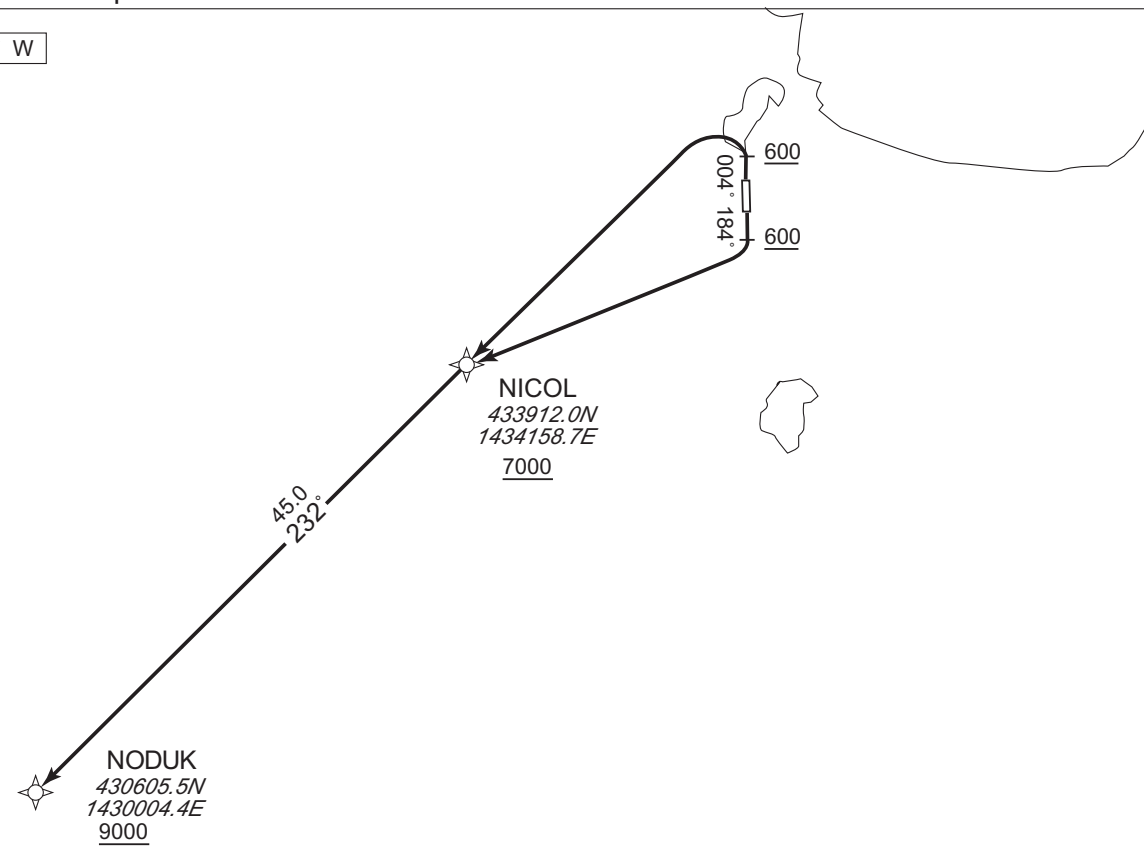
RNAV SID

NODUK ONE DEPARTURE

Basic RNP1

Note GNSS required.

VAR 10° W



RWY18: Climb on HDG184° at or above 600FT, turn right direct to NICOL at or above 7000FT, to NODUK at or above 9000FT.

RWY36: Climb on HDG004° at or above 600FT, turn left direct to NICOL at or above 7000FT, to NODUK at or above 9000FT.

Note RWY36 : 5.0% climb gradient required up to 600FT.

OBST ALT 1181FT located at 6.3NM 312° FM end of RWY36.

RWY18

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	184 (174.7)	-9.5	—	—	+600	—	—	Basic RNP1
002	DF	NICOL	—	—	-9.5	—	R	+7000	—	—	Basic RNP1
003	TF	NODUK	—	232 (222.9)	-9.5	45.0	—	+9000	—	—	Basic RNP1

RWY36

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	004 (354.7)	-9.5	—	—	+600	—	—	Basic RNP1
002	DF	NICOL	—	—	-9.5	—	L	+7000	—	—	Basic RNP1
003	TF	NODUK	—	232 (222.9)	-9.5	45.0	—	+9000	—	—	Basic RNP1

CHANGE : New PROC.

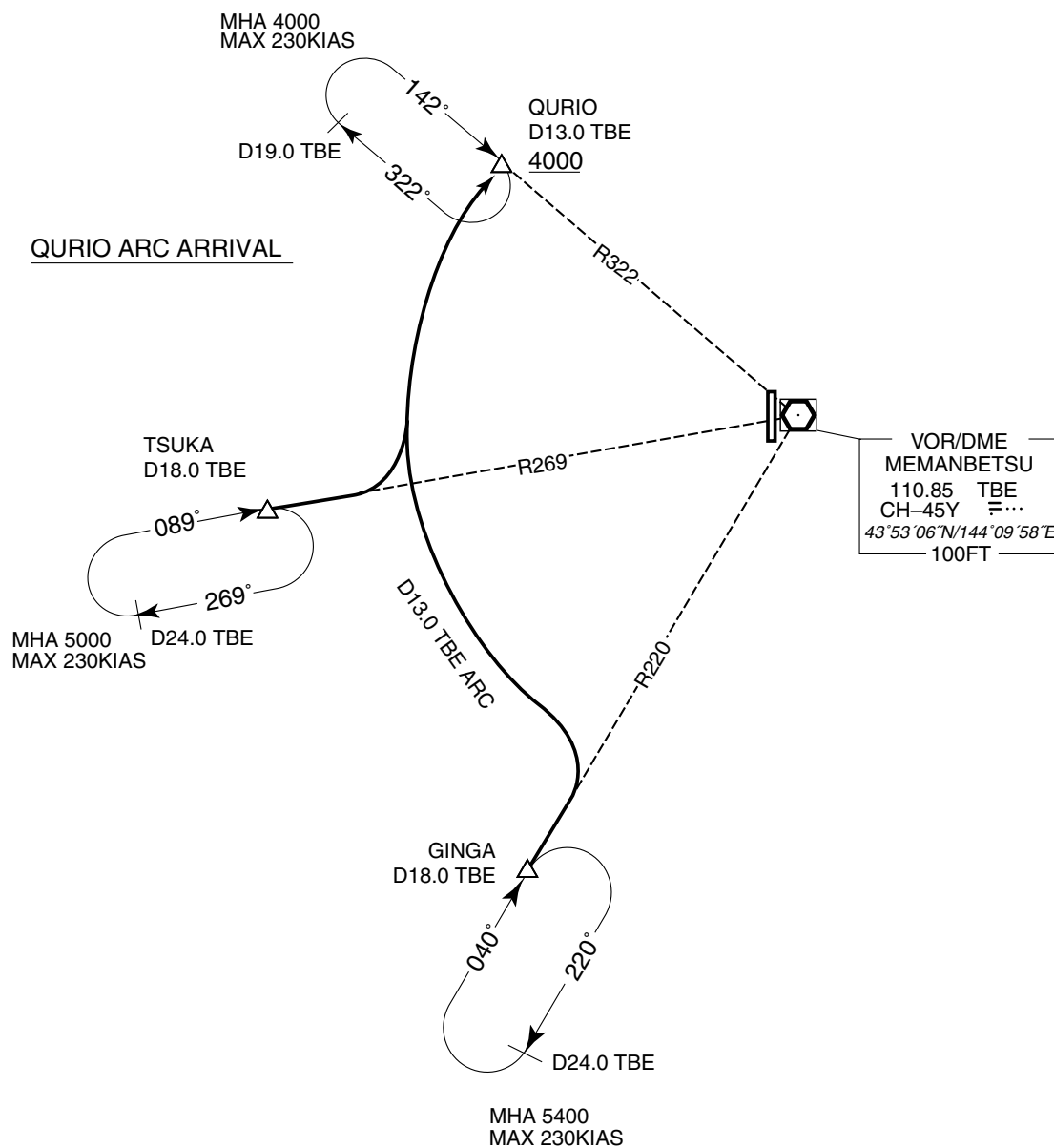
STANDARD ARRIVAL CHART-INSTRUMENT

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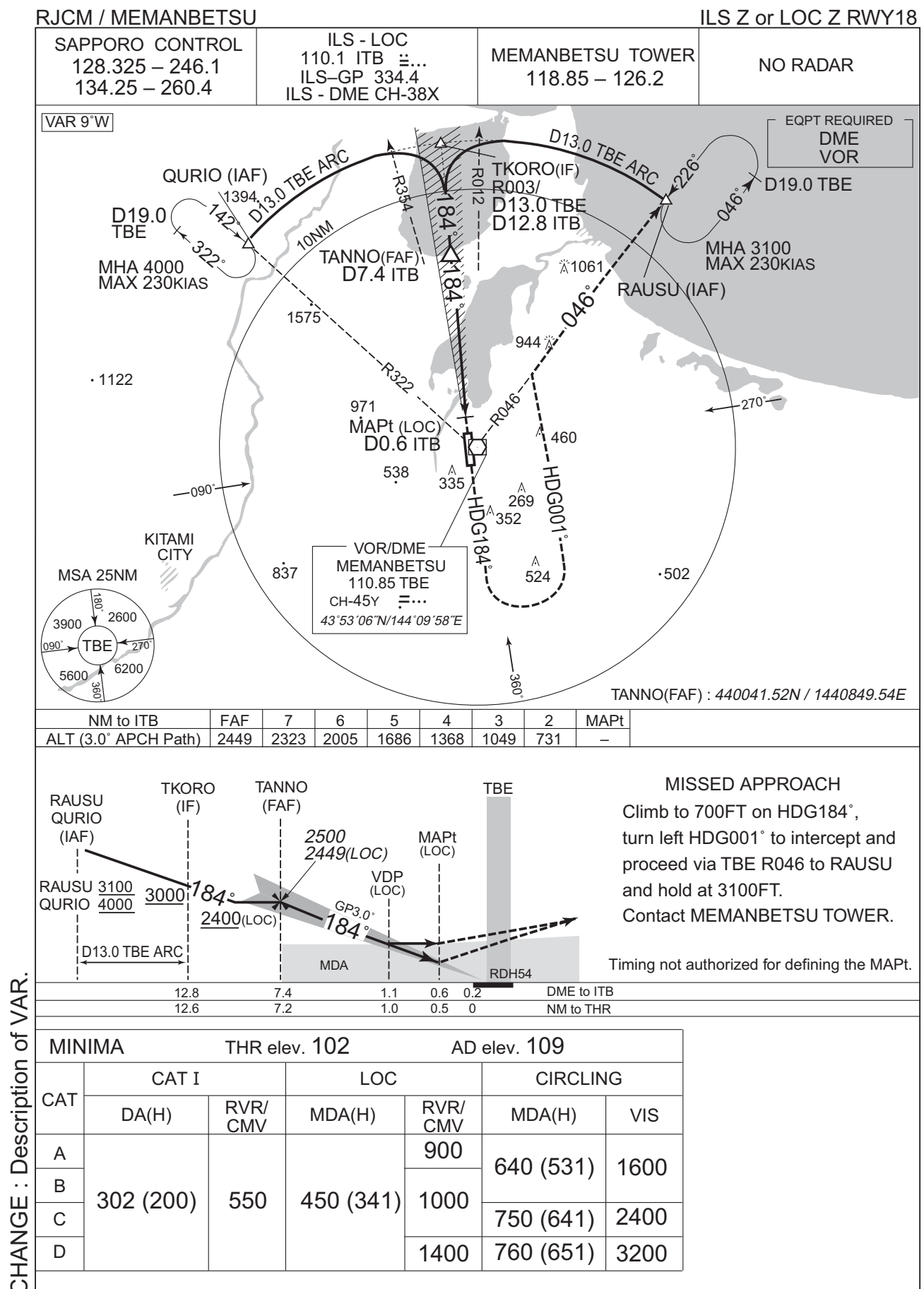
STAR

QURIO ARC ARRIVAL

From over GINGA or TSUKA, turn left via TBE 13.0DME clockwise ARC to QURIO.
Cross QURIO at or above 4000FT.



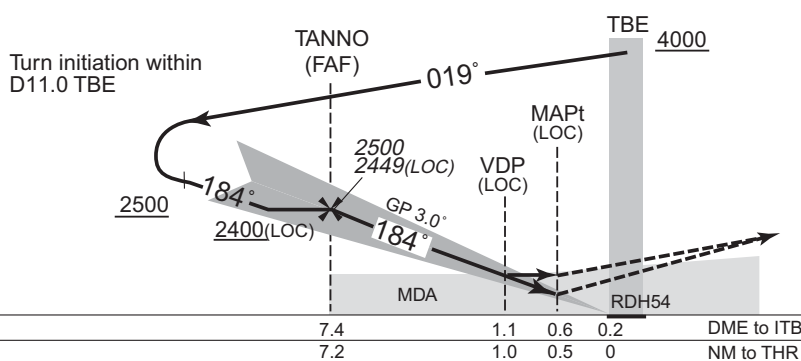
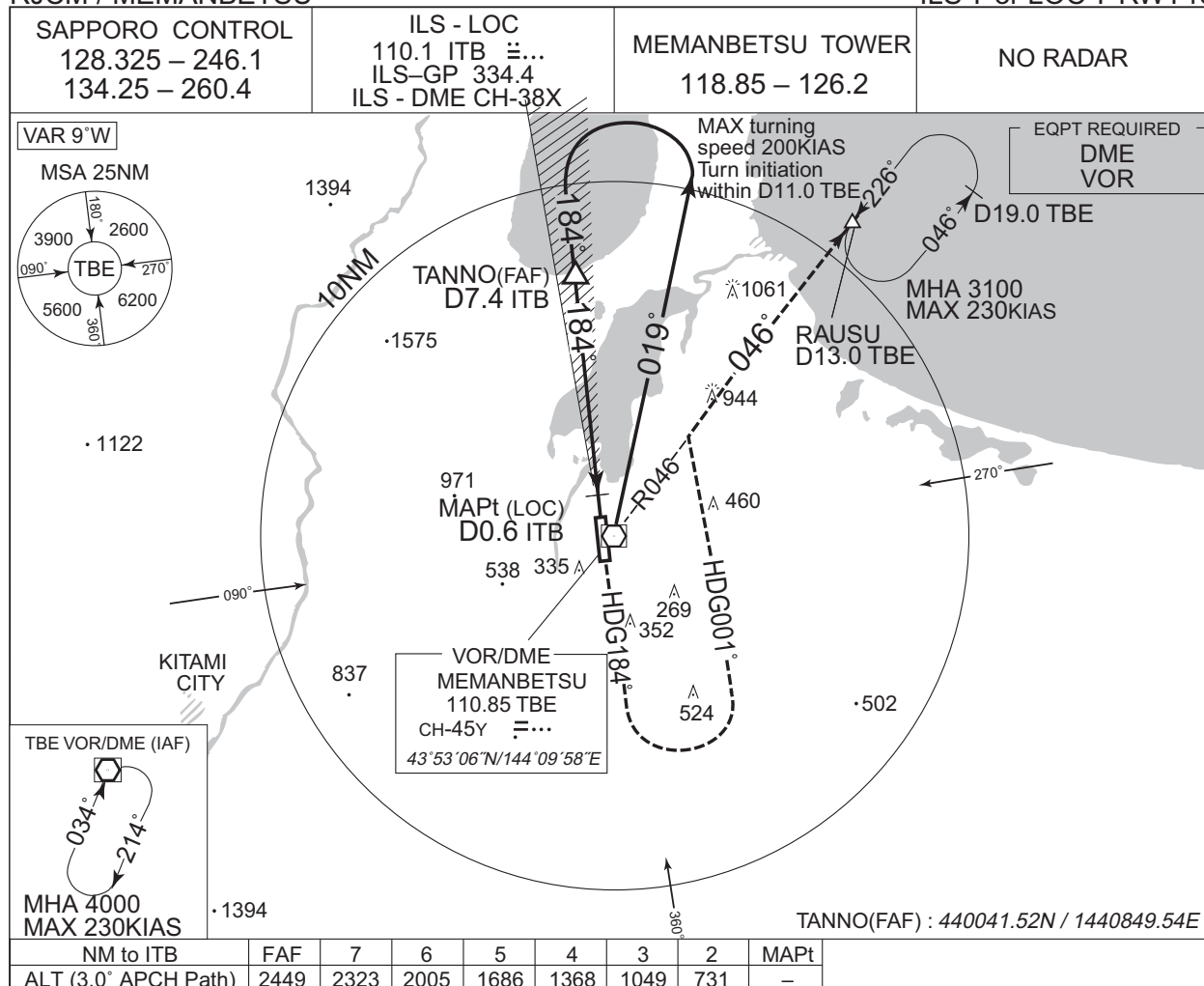
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

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ILS Y or LOC Y RWY18



MISSED APPROACH

Climb to 700FT on HDG184°,
turn left HDG001° to intercept and
proceed via TBE R046 to RAUSU
and hold at 3100FT.
Contact MEMANBETSU TOWER.

Timing not authorized for defining the MAPt.

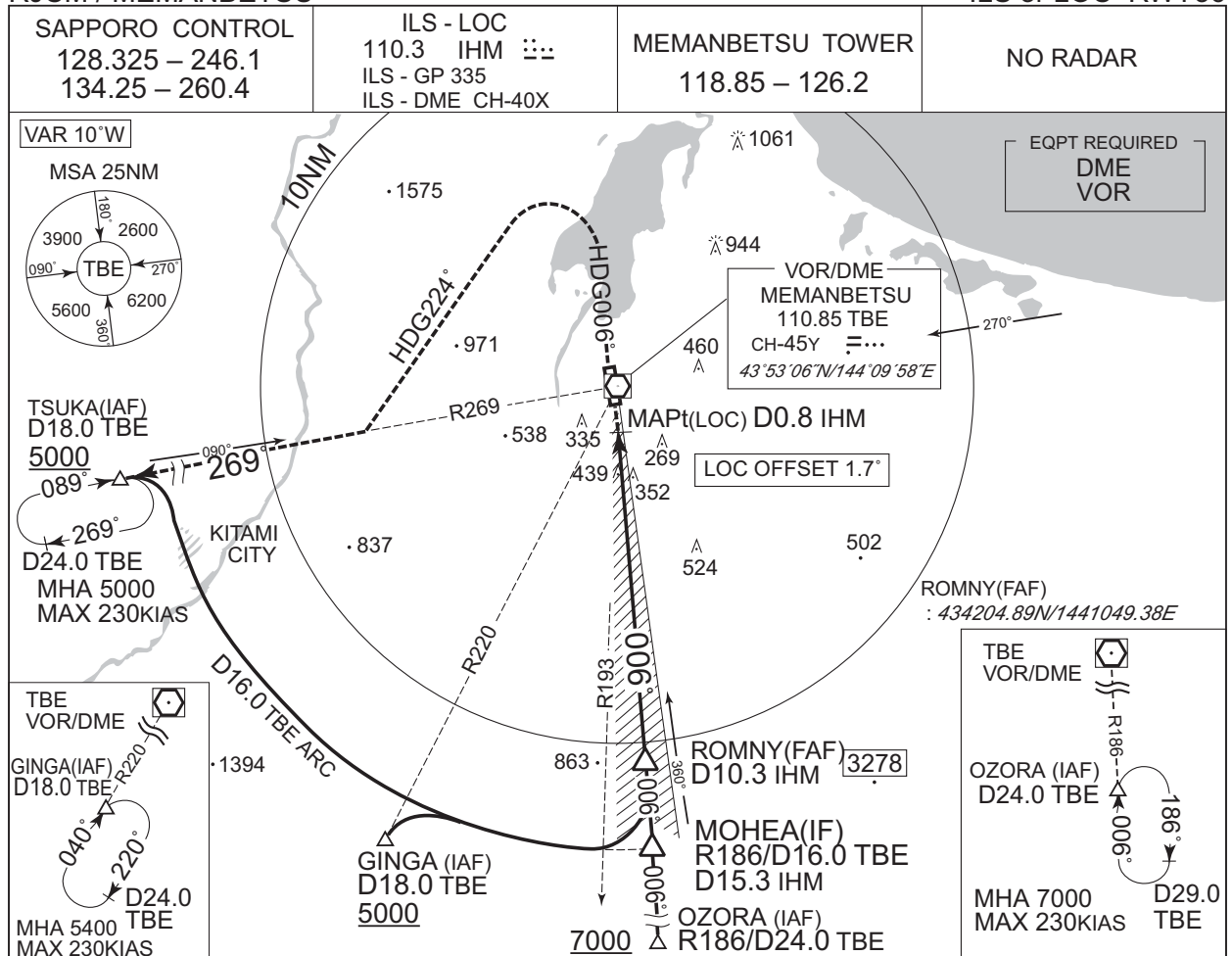
CHANGE : Description of VAR.

MINIMA		THR elev. 102		AD elev. 109		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	302 (200)	550	450 (341)	900	640 (531)	1600
B				1000		
C					750 (641)	2400
D					1400	760 (651)

INSTRUMENT APPROACH CHART

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ILS or LOC RWY36



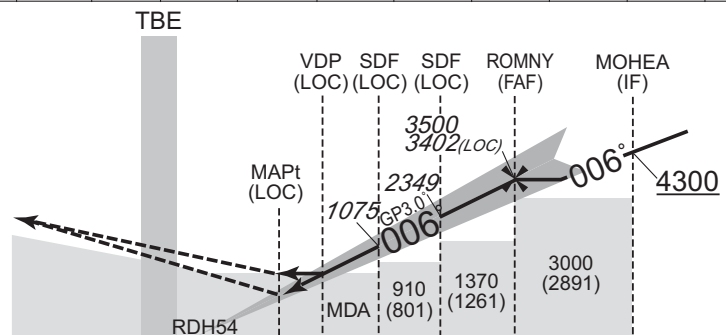
	NM to IHM	MAPt	2	3	4	5	6	7	8	9	10	FAF
ALT (3.0° APCH Path)	—	—	756	1075	1393	1712	2030	2349	2667	2986	3304	3402

MISSED APPROACH

Climb to 1000FT on HDG006°,
turn left HDG224° to intercept and
proceed via TBE R269 to TSUKA
and hold at 5000FT.

Contact MEMANBETSU TOWER.

Timing not authorized for defining the MAPt.



DME to IHM	0.2	0.8	1.4	3.0	7.0	10.3	15.3
NM to THR	0	0.6	1.2	2.8	6.8	10.1	15.1

Missed APCH climb gradient MNM 3.0%

MINIMA THR elev. 135 AD elev. 109

CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	382 (247)	600	540 (431)	900	640 (531)	1600
B				1000		
C					750 (641)	2400
D					1400	760 (651)

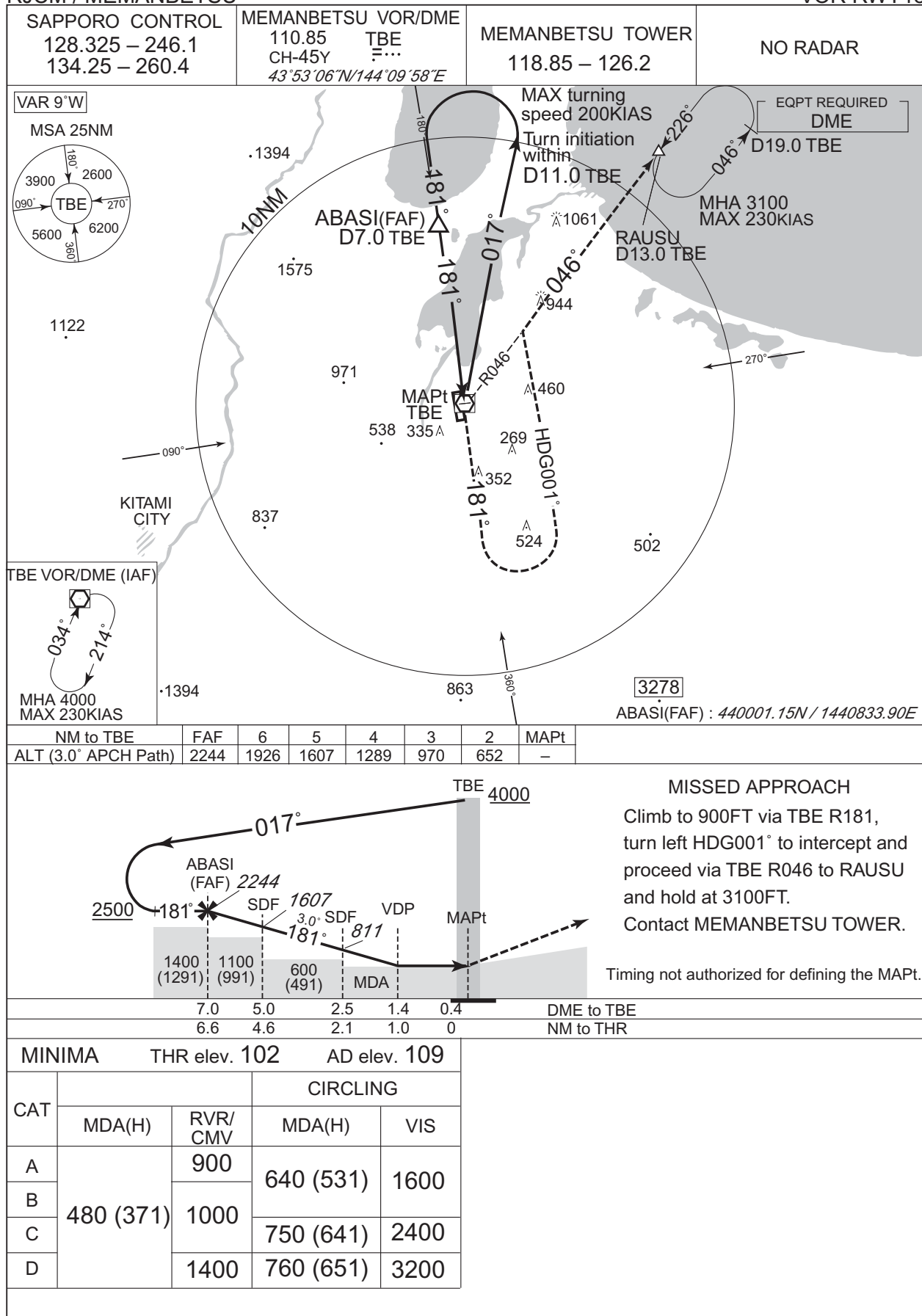
MINIMA with Missed APCH climb gradient of 2.5% are not established.

CHANGE : Description of VAR.

INSTRUMENT APPROACH CHART

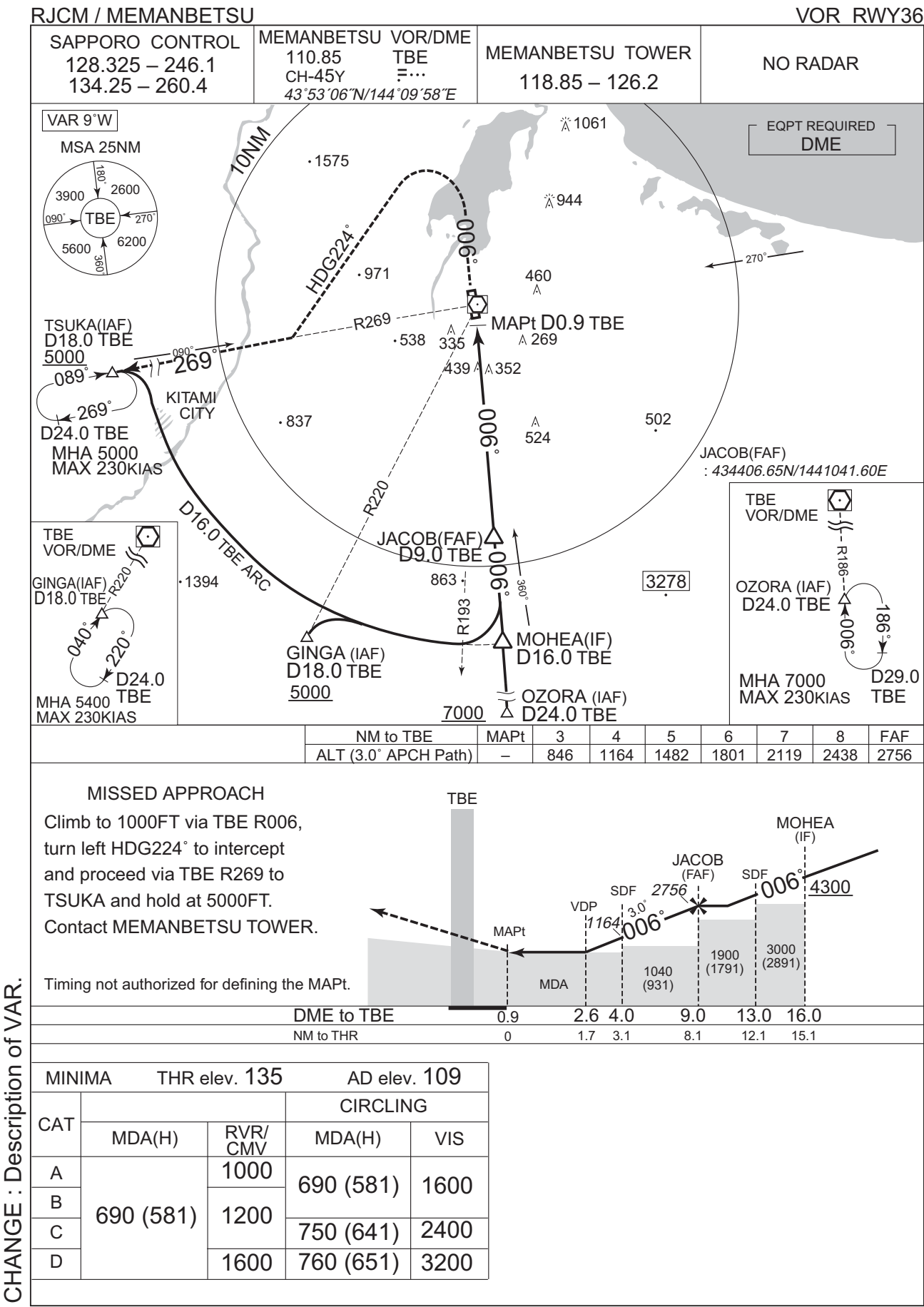
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VOR RWY18



CHANGE : OCA / H for FAF.

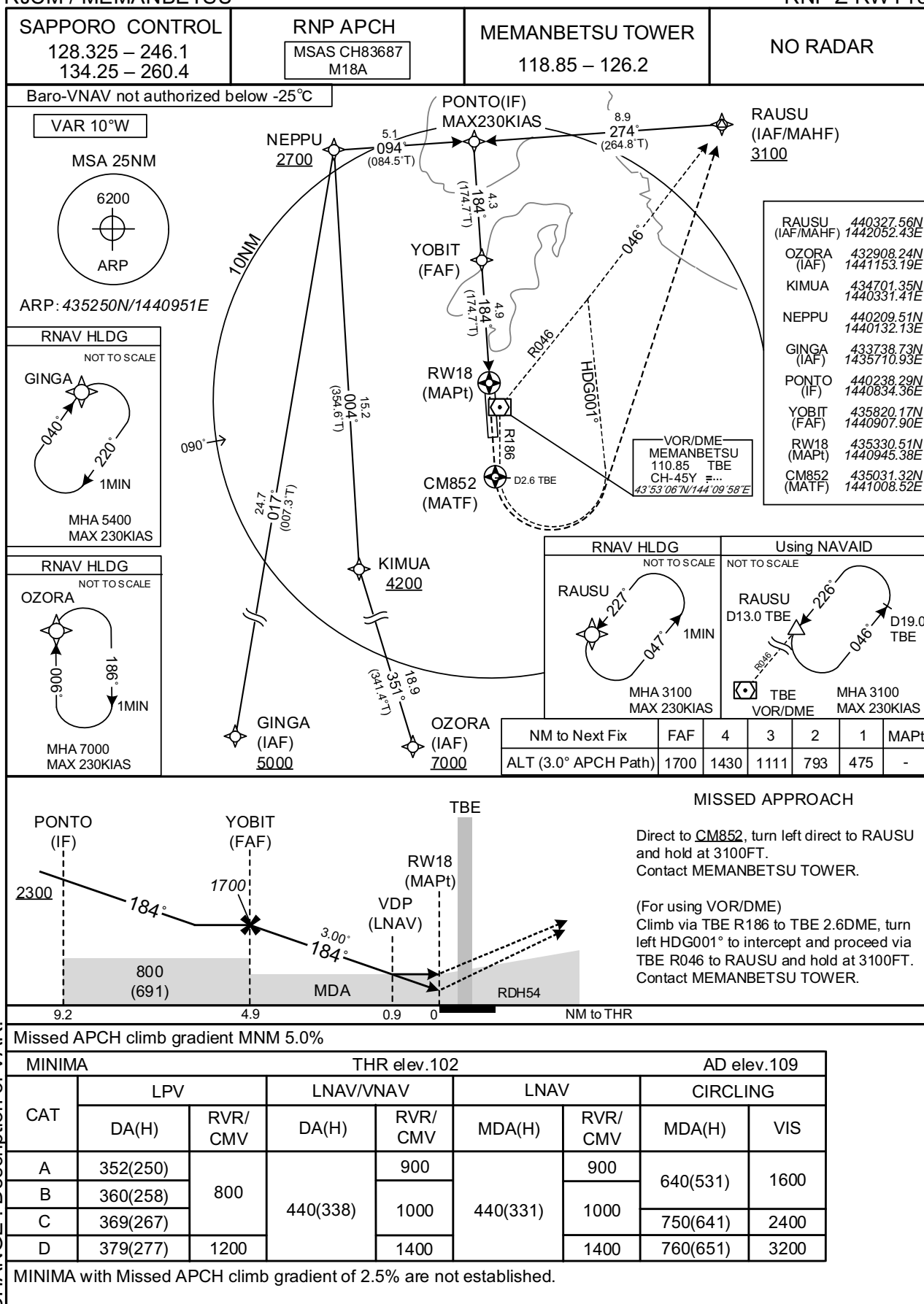
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

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RNP Z RWY18



CHANGE : Description of VAR.

INSTRUMENT APPROACH CHART

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RNP Z RWY18

FAS DATA BLOCK

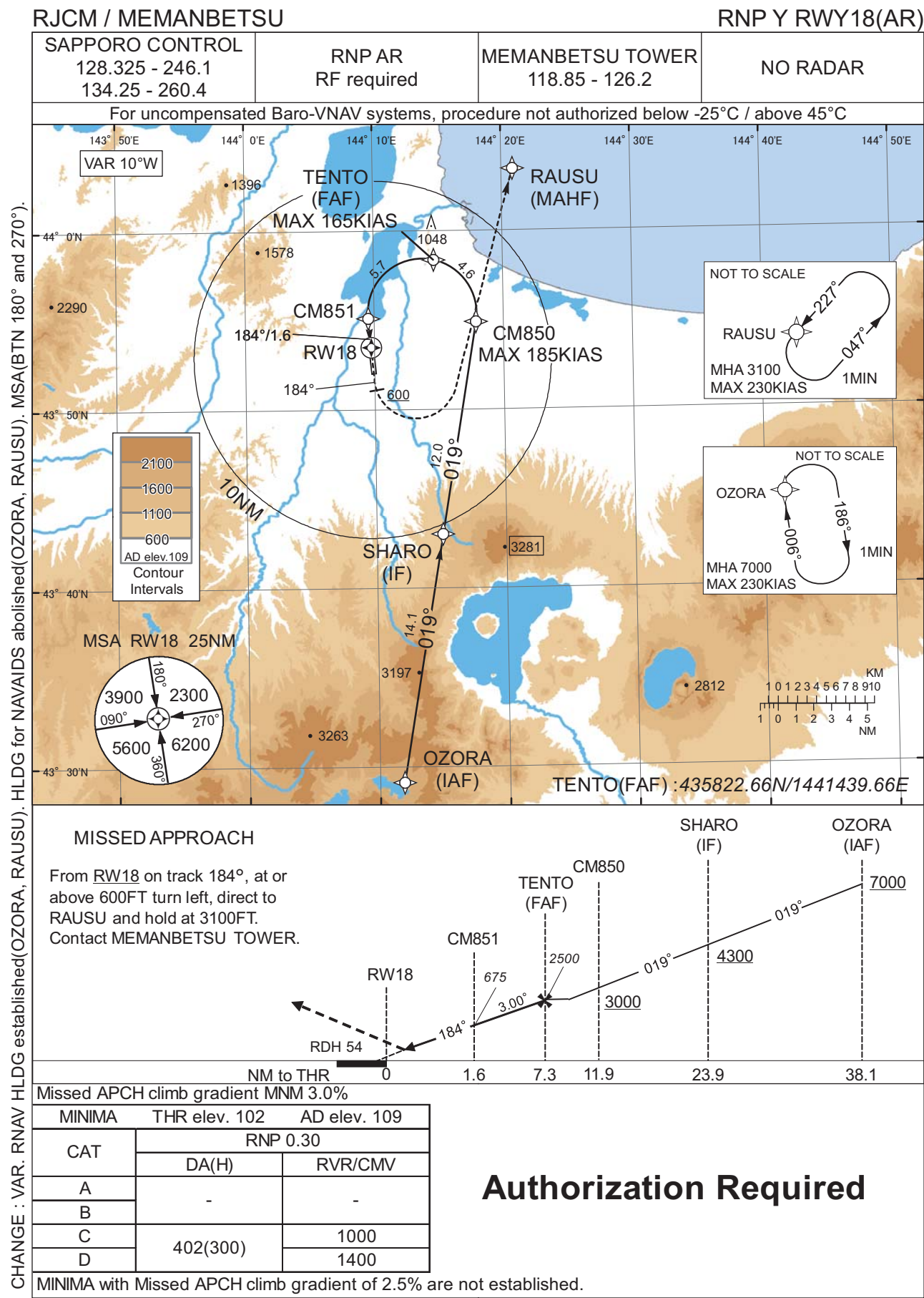
Operation type	0	LTP/FTP ellipsoidal height	+00618
SBAS service provider identifier	2	FPAP latitude	435209.8350N
Airport identifier	RJCM	FPAP longitude	1440955.7670E
Runway	18	Threshold crossing height	00016.5
Approach performance designator	0	TCH units selector	1
Route indicator	Z	Glide path angle	03.00
Reference path data selector	0	Course width at threshold	105.00
Reference path ID	M18A	∠ length offset	0000
LTP/FTP latitude	435330.4920N	HAL	40.0
LTP/FTP longitude	1440945.3395E	VAL	50.0
CRC remainder	257C1F8B		

Required additional data

LTP/FTP orthometric height	31.0
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CHANGE : Description of FAS DATA BLOCK ITEM(CRC remainder).

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

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RNP Y RWY18(AR)

Coding Table

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/ RDH (°/FT)	RNP Value
001	IF	OZORA	-	-	-9.5	-	-	+7000	-	-	-
002	TF	SHARO	-	019 (009.5)	-9.5	14.1	-	+4300	-	-	1.0
003	TF	CM850	-	019 (009.6)	-9.5	12.0	-	+3000	-185	-	1.0
004	RF Center: CMRF1 r=3.04NM	TENTO	-	-	-9.5	4.6	L	2500	-165	-	1.0
005	RF Center: CMRF1 r=3.04NM	CM851	-	-	-9.5	5.7	L	675	-	-3.00	0.3
006	TF	RW18	Y	184 (174.7)	-9.5	1.6	-	156	-	-3.00/54	0.3
007	FA	-	-	184 (174.7)	-9.5	-	-	+600	-	-	1.0
008	DF	RAUSU	-	-	-9.5	-	L	3100	-	-	1.0

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	RNP Value
Hold	OZORA	006 (356.7)	-9.5	1.0 (-14000)	R	7000	FL140	-230 (-14000)	1.0
Hold	RAUSU	227 (217.0)	-9.5	1.0 (-14000)	L	3100	FL140	-230 (-14000)	1.0

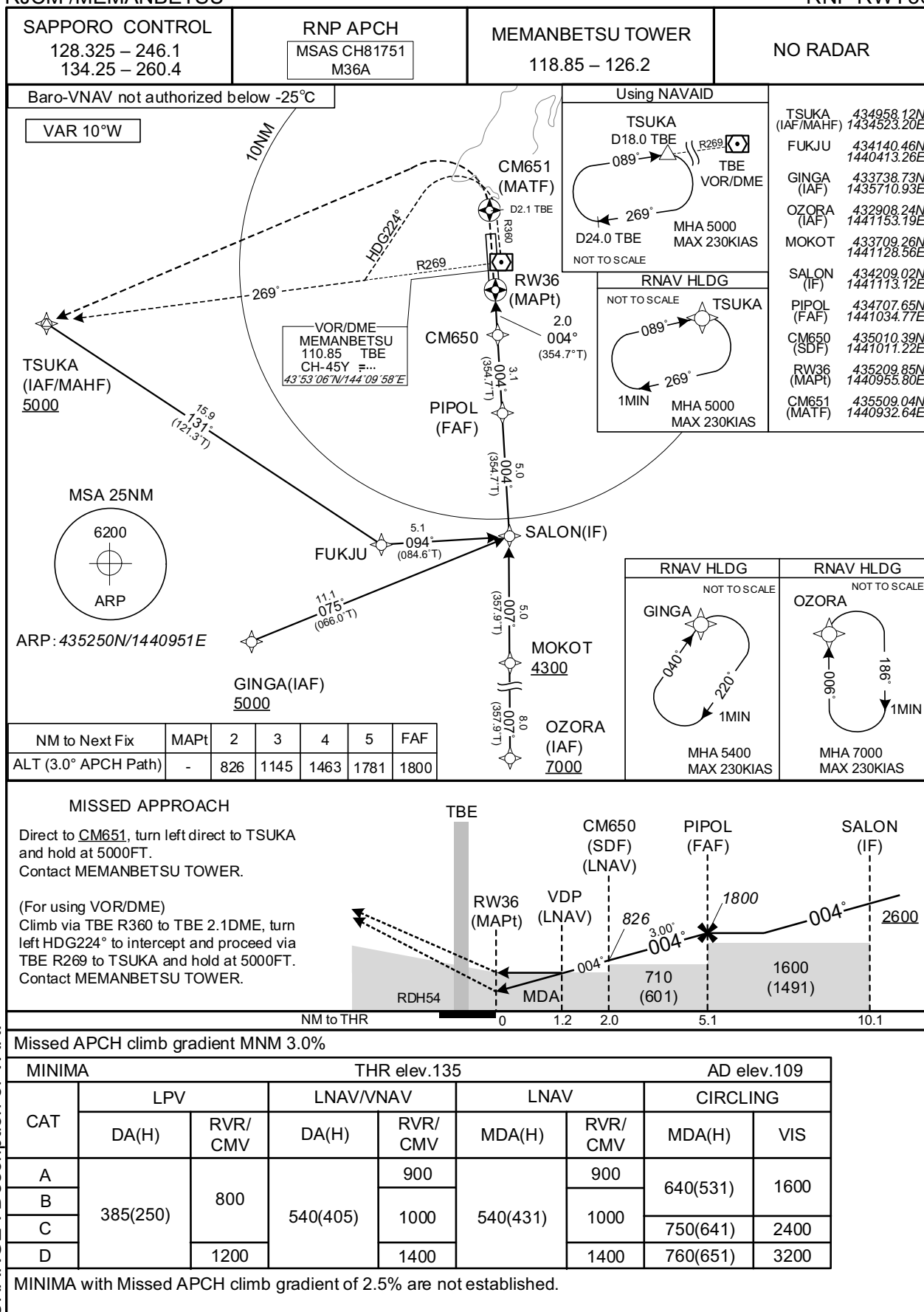
Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
OZORA	432908.24N / 1441153.19E	CMRF1	435524.66N / 1441344.15E
SHARO	434301.91N / 1441506.66E		
CM850	435454.27N / 1441753.05E		
TENTO	435822.66N / 1441439.66E		
CM851	435507.75N / 1440932.81E		
RW18	435330.51N / 1440945.38E		
RAUSU	440327.56N / 1442052.43E		

CHANGE : VAR. RNAV HLDG established.

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RNP RWY36



CHANGE : Description of VAR.

INSTRUMENT APPROACH CHART

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RNP RWY36

FAS DATA BLOCK

Operation type	0	LTP/FTP ellipsoidal height	+00719
SBAS service provider identifier	2	FPAP latitude	435330.4920N
Airport identifier	RJCM	FPAP longitude	1440945.3395E
Runway	36	Threshold crossing height	00016.5
Approach performance designator	0	TCH units selector	1
Route indicator		Glide path angle	03.00
Reference path data selector	0	Course width at threshold	105.00
Reference path ID	M36A	∠ length offset	0000
LTP/FTP latitude	435209.8350N	HAL	40.0
LTP/FTP longitude	1440955.7670E	VAL	50.0
CRC remainder	28C6AB24		

Required additional data

LTP/FTP orthometric height	41.1
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CHANGE : Description of FAS DATA BLOCK ITEM(CRC remainder).

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Visual REP



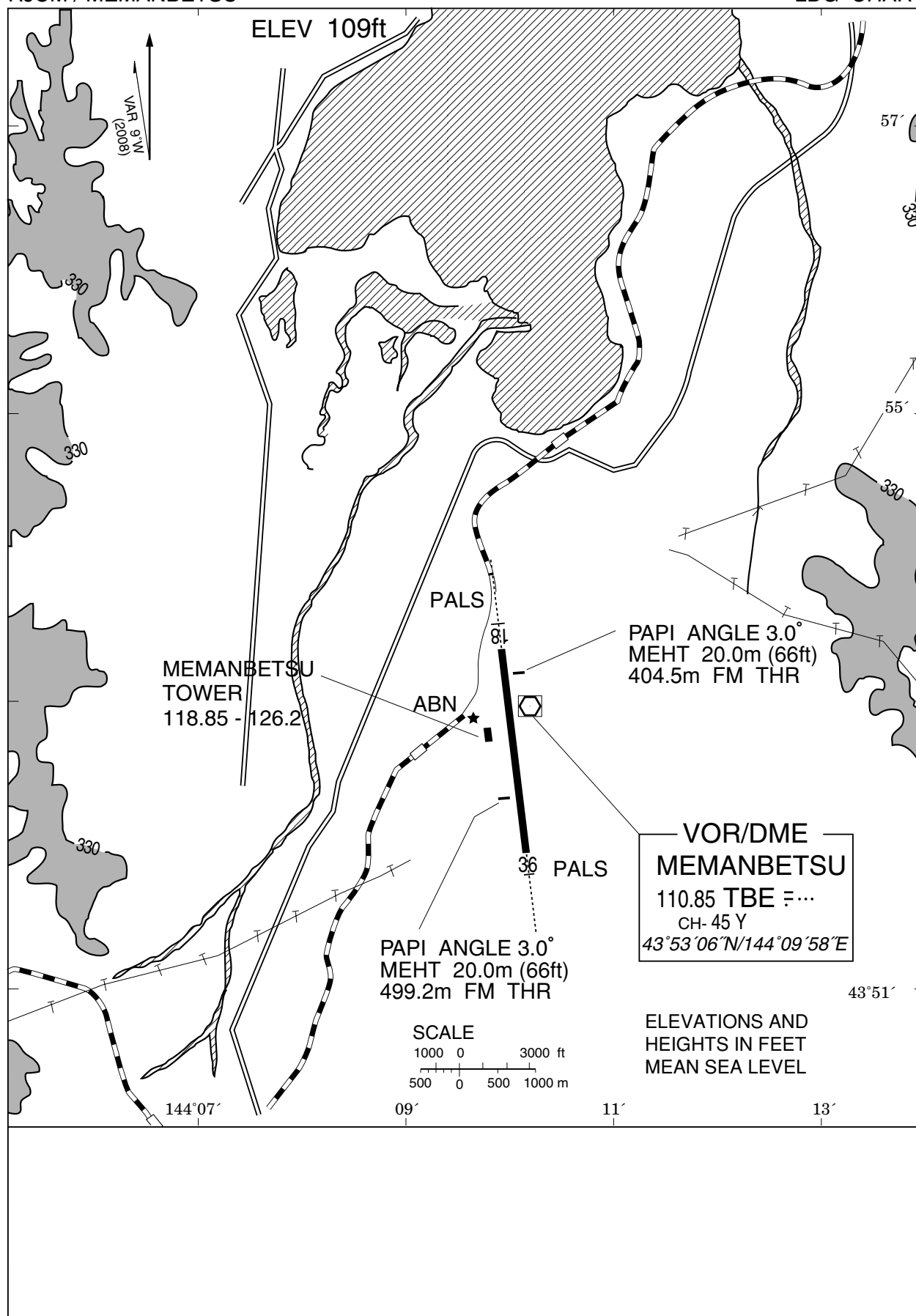
※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

CHANGE : Map updated. BRG/DIST from ARP.

Call sign	BRG / DIST from ARP	Remarks
網走 Abashiri	025°T / 9.2NM	JR駅 Station
湧湖 Tofutsuko	074°T / 10.5NM	湖 Lake
小清水 Koshimizu	097°T / 13.3NM	学校 School
東藻琴 Higashimokoto	110°T / 6.1NM	市街地 Town
美幌峠 Bihoro Toge	165°T / 14.4NM	峠 Pass
津別 Tsubetsu	210°T / 12.2NM	市街地 Town
美幌ステーション Bihoro Station	223°T / 3.7NM	JR駅 Station
北見 Kitami	248°T / 12.4NM	JR駅 Station
浜佐呂間 Hamasaroma	321°T / 15.5NM	佐呂間大橋 Bridge

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LDG CHART



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Minimum Vectoring Altitude CHART

