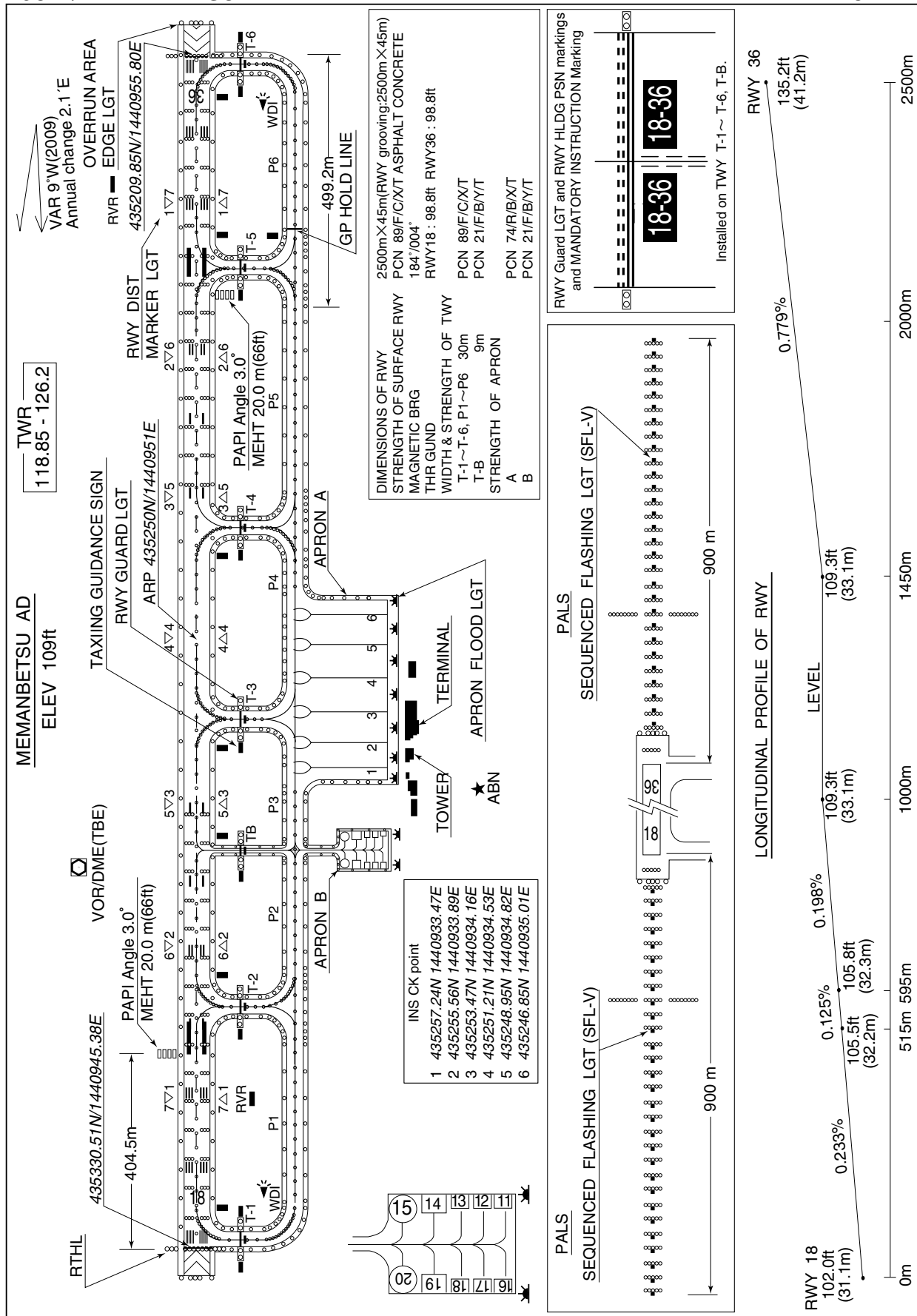


RJCM / MEMANBETSU

AD CHART



STANDARD DEPARTURE CHART -INSTRUMENT

RJCM / MEMANBETSU

SID

KUSHIRO THREE DEPARTURE

RWY 18 : Climb via TBE R187/KSE R007 to KSE VOR/DME.

RWY 36 : Climb RWY HDG to 800FT, turn right HDG 217° to intercept and proceed via TBE R187/KSE R007 to KSE VOR/DME.

Note RWY18 : 3.9% climb gradient required up to 4500FT.

OBST ALT 3281FT located at 17.0NM 179° FM end of RWY18.



STANDARD DEPARTURE CHART-INSTRUMENT

RJCM / MEMANBETSU

SID

EATAK THREE DEPARTURE

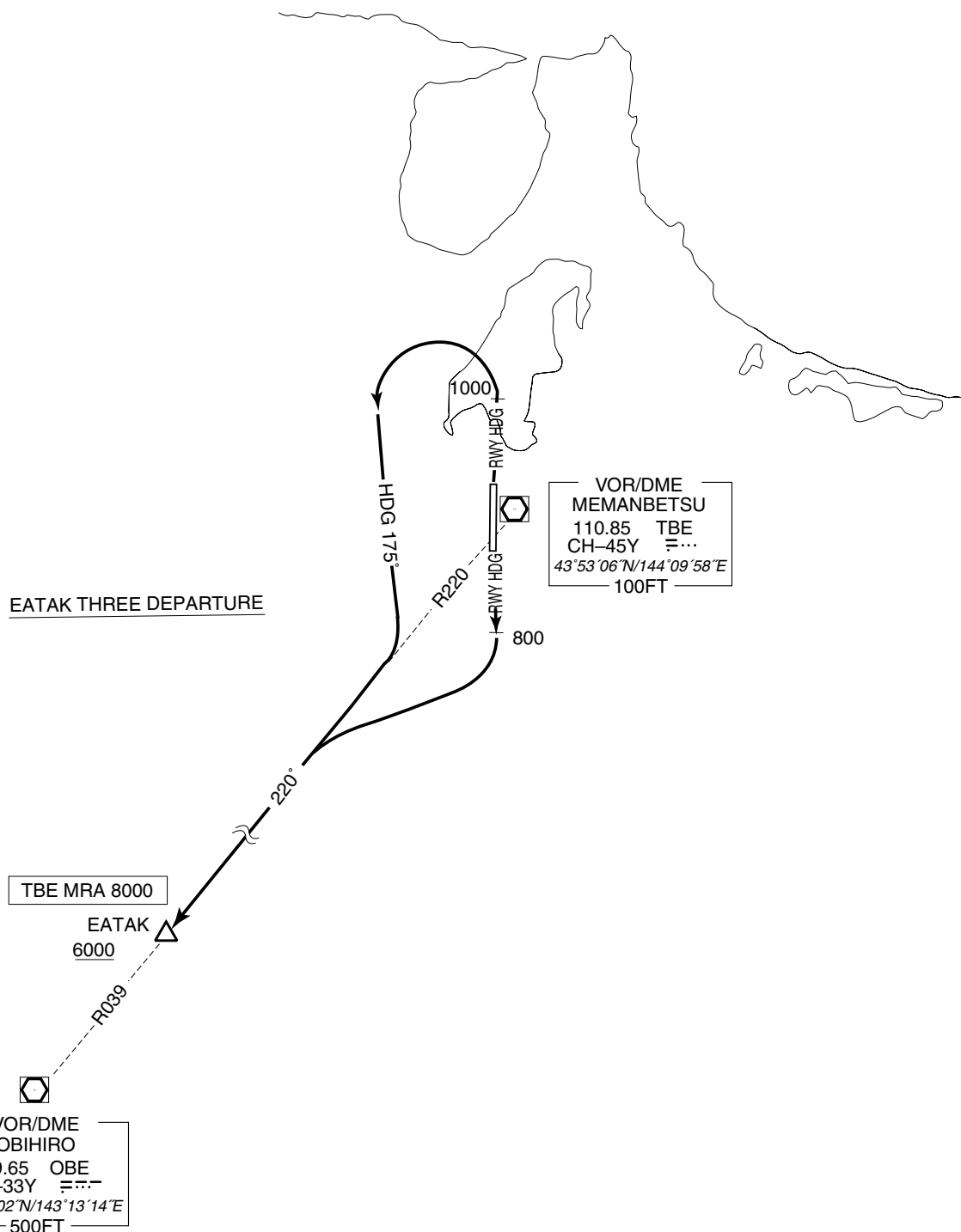
RWY 18 : Climb RWY HDG to 800FT, turn right climb via TBE R220/OBE R039 to EATAK....

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

....Cross EATAK at or above 6000FT.

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

OBST ALT 1181FT located at 4.5NM 290° FM end of RWY36.



STANDARD DEPARTURE CHART-INSTRUMENT

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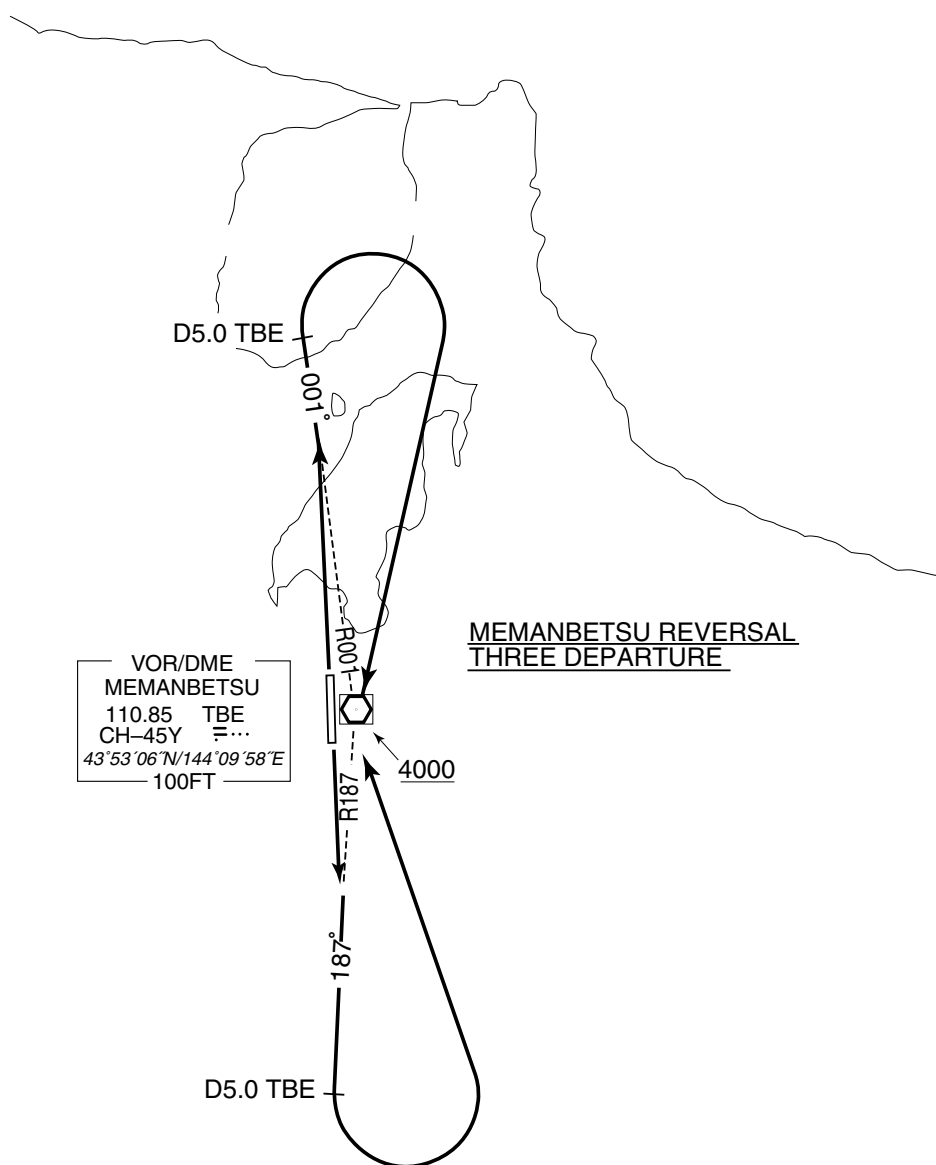
SID

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.



STANDARD DEPARTURE CHART-INSTRUMENT

RJCM / MEMANBETSU

RNAV SID

SHIBARE ONE DEPARTURE

Basic RNP1

Note GNSS required.

VAR 9° W(2016)

SHIBARE ONE DEPARTURE



SHIBARE ONE DEPARTURE

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

RWY36: Climb on HDG004° at or above 600FT, turn left direct to NICOL at or above 7000FT, to NOTAK 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)	-9.2	—	—	+600	—	—	Basic RNP1
002	DF	NICOL	—	—	-9.2	—	R	+7000	—	—	Basic RNP1
003	TF	NOTAK	—	231 (222.1)	-9.2	45.3	—	+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)	-9.2	—	—	+600	—	—	Basic RNP1
002	DF	NICOL	—	—	-9.2	—	L	+7000	—	—	Basic RNP1
003	TF	NOTAK	—	231 (222.1)	-9.2	45.3	—	+9000	—	—	Basic RNP1

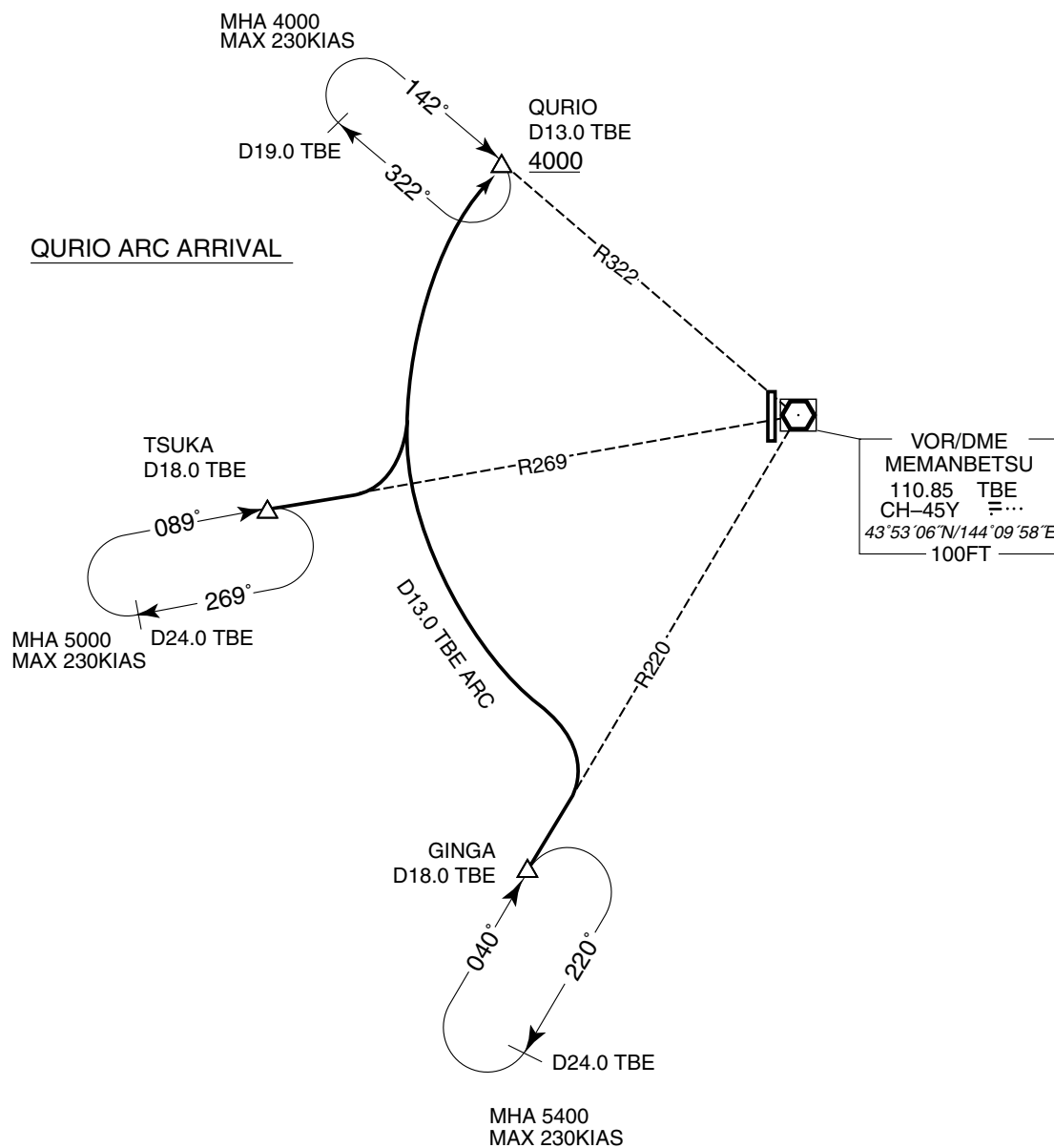
STANDARD ARRIVAL CHART-INSTRUMENT

RJCM / MEMANBETSU

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

RJCM / MEMANBETSU

ILS Z or LOC Z RWY18



INSTRUMENT APPROACH CHART

RJCM / MEMANBETSU

ILS Y or LOC Y RWY18

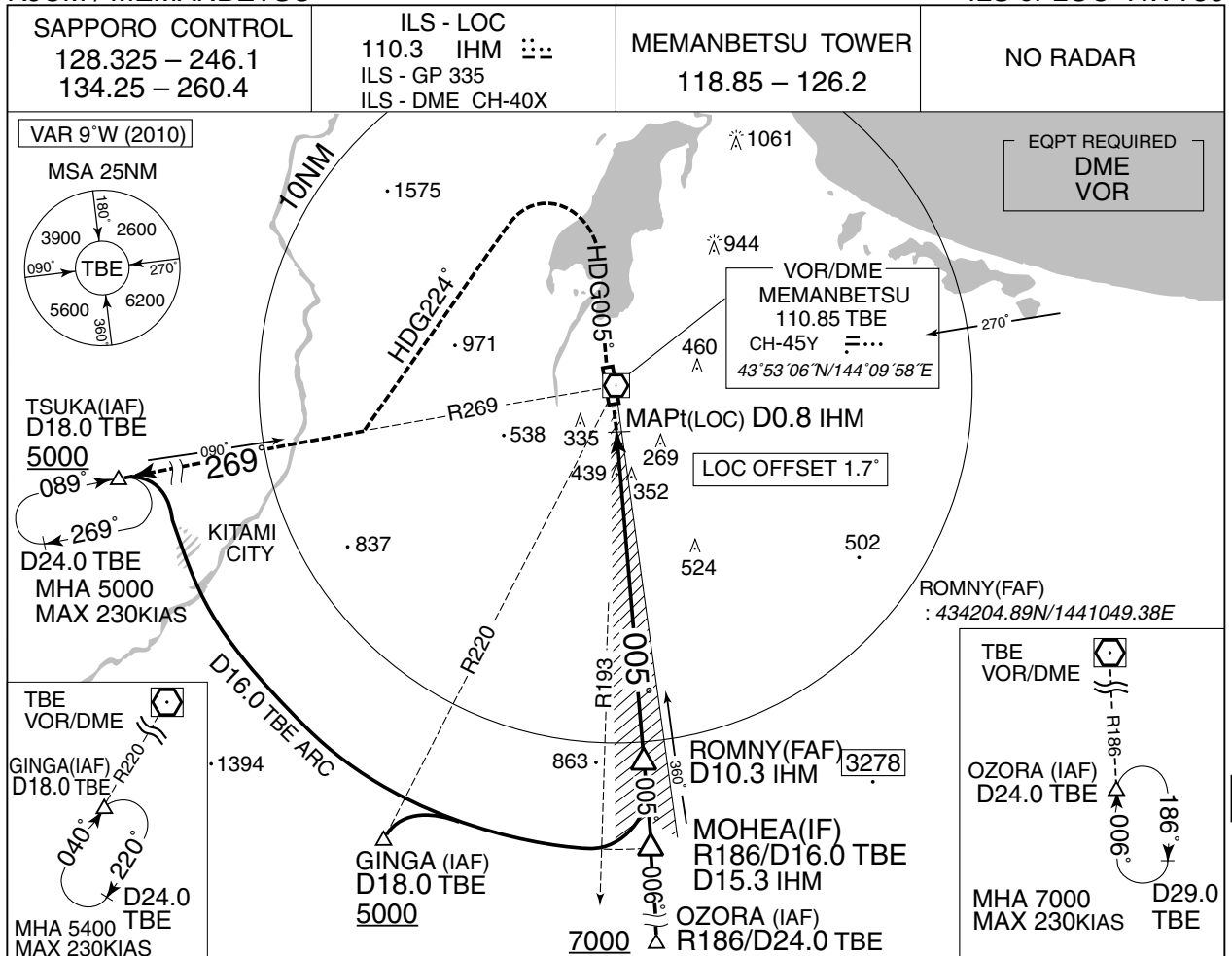


MINIMA		THR elev. 102		AD elev. 109		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	302 (200)	550	450 (341)	900	640 (531)	1600
B				1000		
C					750 (641)	2400
D					1400	760 (651)

INSTRUMENT APPROACH CHART

RJCM / MEMANBETSU

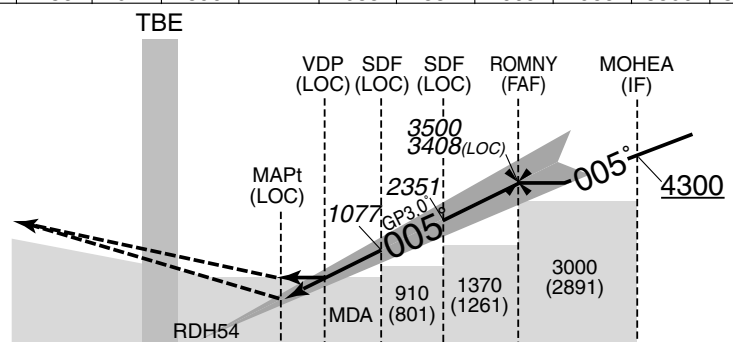
ILS or LOC RWY36



	NM to IHM	MAPt	2	3	4	5	6	7	8	9	10	FAF
ALT (3.0° APCH Path)	—	—	758	1077	1396	1714	2033	2351	2669	2988	3306	3408

MISSED APPROACH
Climb on HDG005° to 1000FT,
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.

INSTRUMENT APPROACH CHART

RJCM / MEMANBETSU

VOR RWY18



INSTRUMENT APPROACH CHART

RJCM / MEMANBETSU

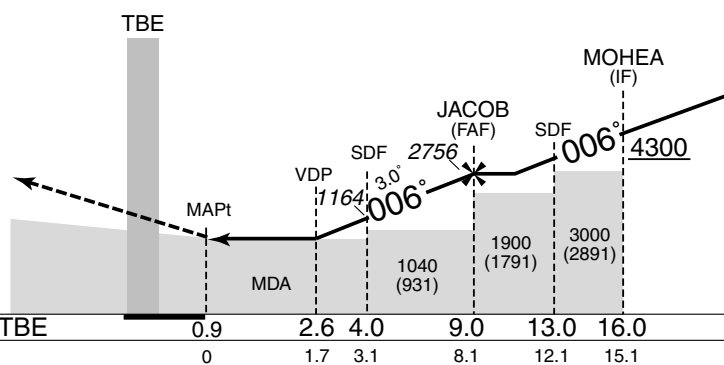
VOR RWY36



MISSED APPROACH

Climb to 1000FT via TBE R006,
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.



MINIMA		THR elev. 135		AD elev. 109	
CAT			CIRCLING		
	MDA(H)	RVR/ CMV	MDA(H)	VIS	
A	690 (581)	1000	690 (581)	1600	
B		1200			
C			750 (641)	2400	
D			1600	760 (651)	3200

INSTRUMENT APPROACH CHART

RJCM / MEMANBETSU

➔ RNAV(RNP) RWY18

SAPPORO CONTROL
128.325 – 246.1
134.25 – 260.4

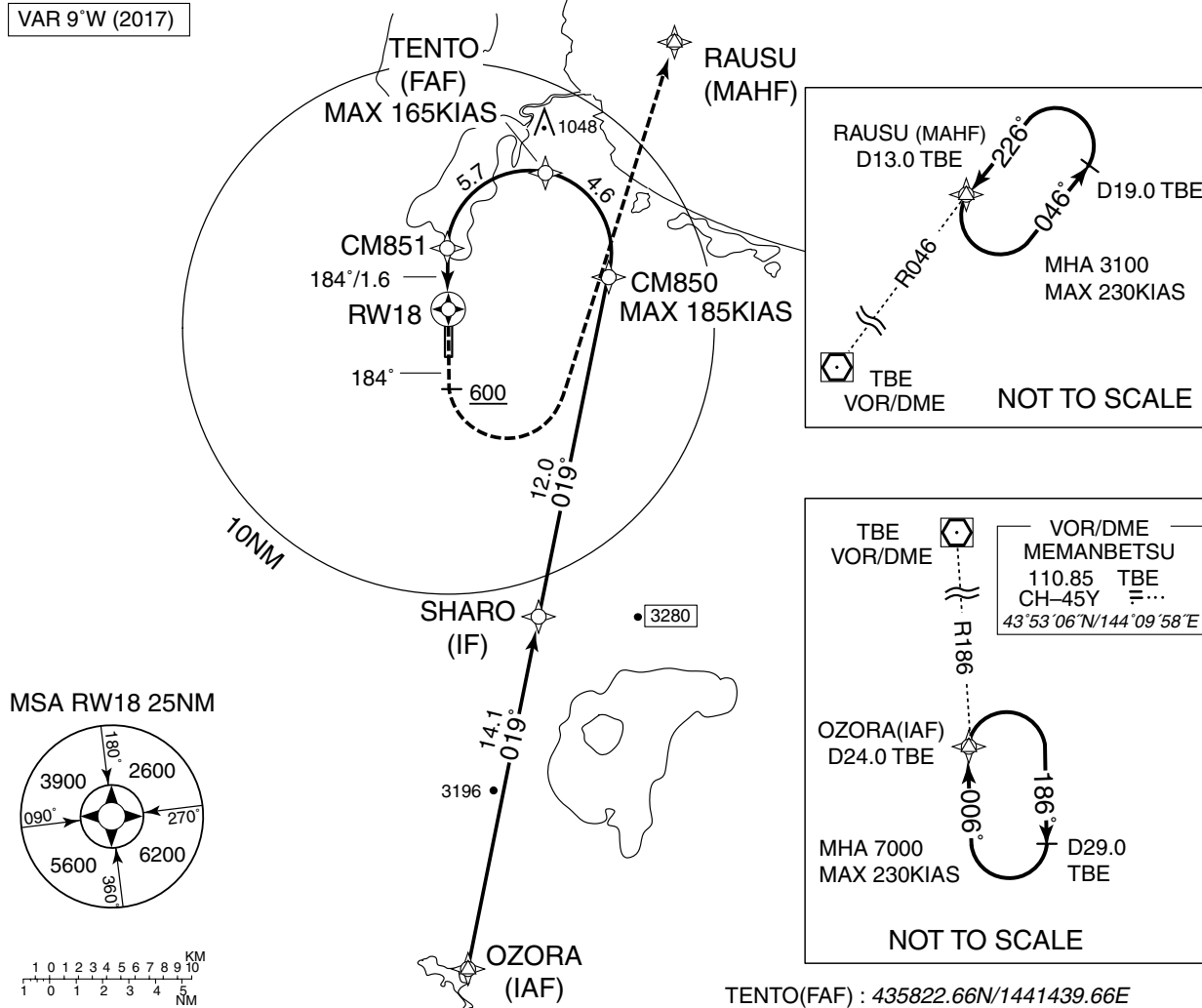
GNSS and RF required.

MEMANBETSU TOWER
118.85 – 126.2

NO RADAR

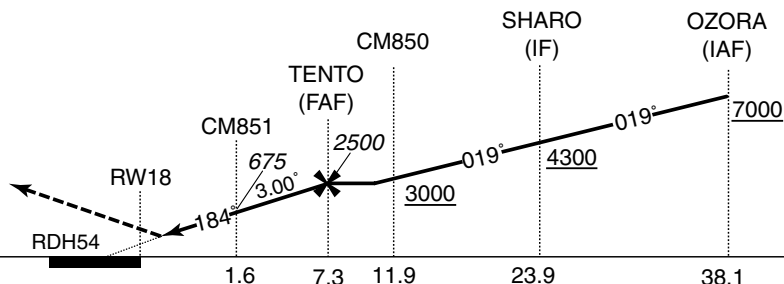
For uncompensated Baro-VNAV systems, procedure not authorized below -25°C / above 45°C

VAR 9°W (2017)



MISSED APPROACH

From RW18 on track 184°, at or above 600FT turn left, direct to RAUSU and hold at 3100FT. Contact MEMANBETSU TOWER.



Missed APCH climb gradient MNM 3.0%

MINIMA THR elev. 102 AD elev. 109

CAT	RNP 0.30	
	DA(H)	RVR/CMV
A	—	—
B	—	—
C	402 (300)	1000
D	402 (300)	1400

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

RNP AR

Special Authorization Required

INSTRUMENT APPROACH CHART

RJCM / MEMANBETSU

➔ RNAV(RNP) RWY18

RNAV(RNP) RWY18Coding 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	—	—	-9.2	—	—	+7000	—	—	—
002	TF	SHARO	—	019 (009.5)	-9.2	14.1	—	+4300	—	—	1.0
003	TF	CM850	—	019 (009.6)	-9.2	12.0	—	+3000	-185	—	1.0
004	RF Center: CMRF1 r=3.04	TENTO	—	—	-9.2	4.6	L	2500	-165	—	1.0
005	RF Center: CMRF1 r=3.04	CM851	—	—	-9.2	5.7	L	675	—	-3.00	0.3
006	TF	RW18	Y	184 (174.7)	-9.2	1.6	—	156	—	-3.00/54	0.3
007	FA	—	—	184 (174.7)	-9.2	—	—	+600	—	—	1.0
008	DF	RAUSU	—	—	-9.2	—	L	3100	—	—	1.0

Waypoint Coordinates

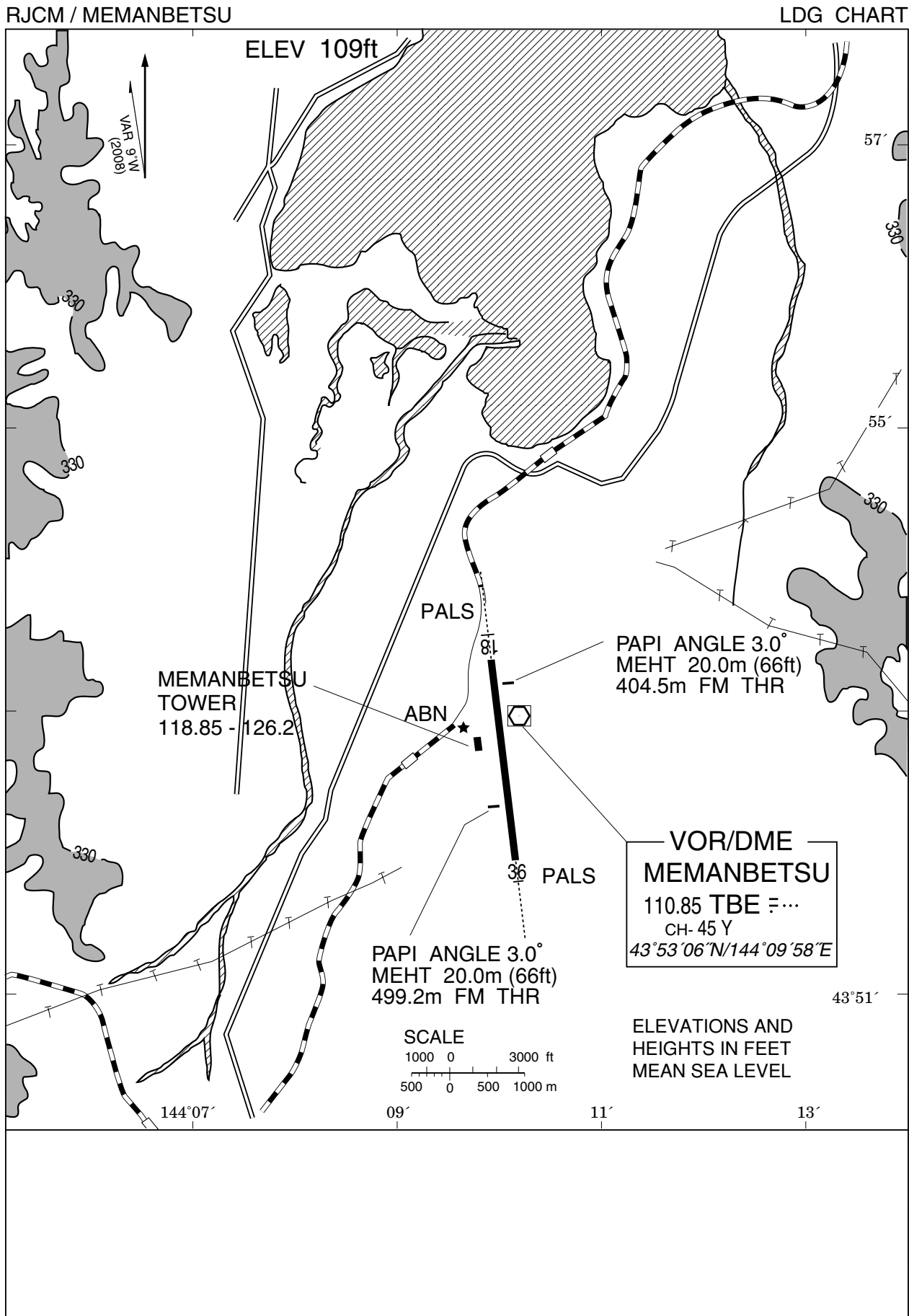
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
OZORA	432908.24N / 1441153.19E	CMRF1	435524.66N / 1441344.15E
SHARO	434301.91N / 1441506.66E		
CM850	435454.27N / 1441753.05E		
TENTO	435822.66N / 1441439.66E		
CM851	435507.75N / 1440932.81E		
RW18	435330.51N / 1440945.38E		
RAUSU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

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Visual REP



Call sign	BRG / DIST from ARP	Remarks
網走 Abashiri	034°/ 9NM	JR駅 Station
涛沸湖 Tohfutsu-ko	082°/10.5NM	湖 Lake
小清水 Koshimizu	105°/13.3NM	学校 School
東藻琴 Higashimokoto	121°/ 6.1NM	市街地 Town
美幌峠 Bihoro - tohge	173°/14.3NM	峠 Pass
津別 Tsubetsu	221°/11.8NM	市街地 Town
美幌ステーション Bihoro Station	235°/ 3.5NM	JR駅 Station
北見 Kitami	257°/12.5NM	JR駅 Station
浜佐呂間 Hamasaroma	329°/15.3NM	佐呂間大橋 Bridge



RJCM / MEMANBETSU

Minimum Vectoring Altitude CHART

