

AD CHART

MEMANBETSU AD
ELEV 109ft

TWR
118.85 - 126.2

VAR 9°W(2009)
Annual change 2.1°E

OVERRUN AREA
EDGE LGT CEILO METER

RVR
WIND SPEED METER

ARP 435250N/1440951E

PAPI Angle 3.0°
MEHT 20.0 m(66ft)

INS CK point

1	435257.24N 1440933.47E
2	435255.56N 1440933.89E
3	435253.47N 1440934.16E
4	435251.21N 1440934.53E
5	435248.95N 1440934.82E
6	435246.85N 1440935.01E

LONGITUDINAL PROFILE OF RWY

LEVEL	0.779%
RWY 18	102.0ft (31.1m)
RWY 36	135.2ft (41.2m)

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

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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

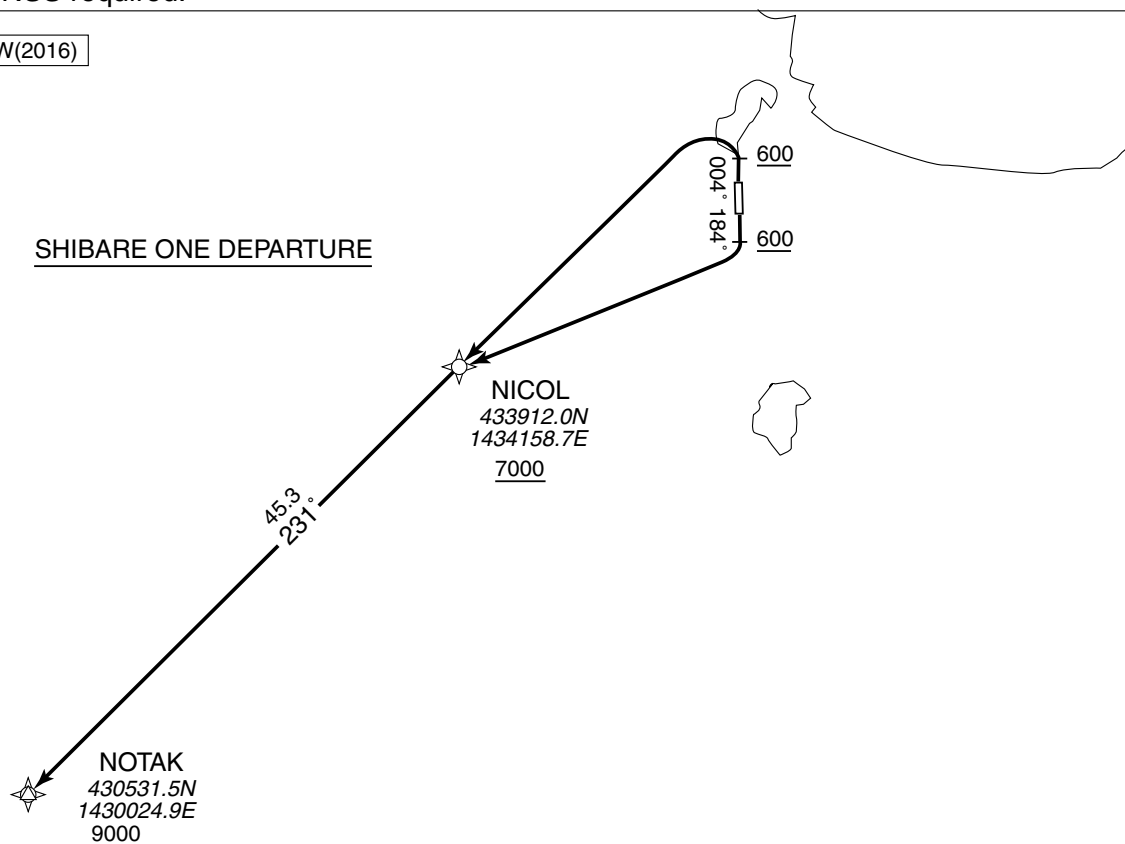
RNAV SID

SHIBARE ONE DEPARTURE

Basic RNP1

Note GNSS required.

VAR 9° W(2016)



SHIBARE ONE DEPARTURE

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

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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.



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ILS Z or LOC Z RWY18



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ILS Y or LOC Y RWY18

29/3/18

RJCM / MEMANBETSU

ILS or LOC RWY36



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

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➔ 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%

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

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➔ 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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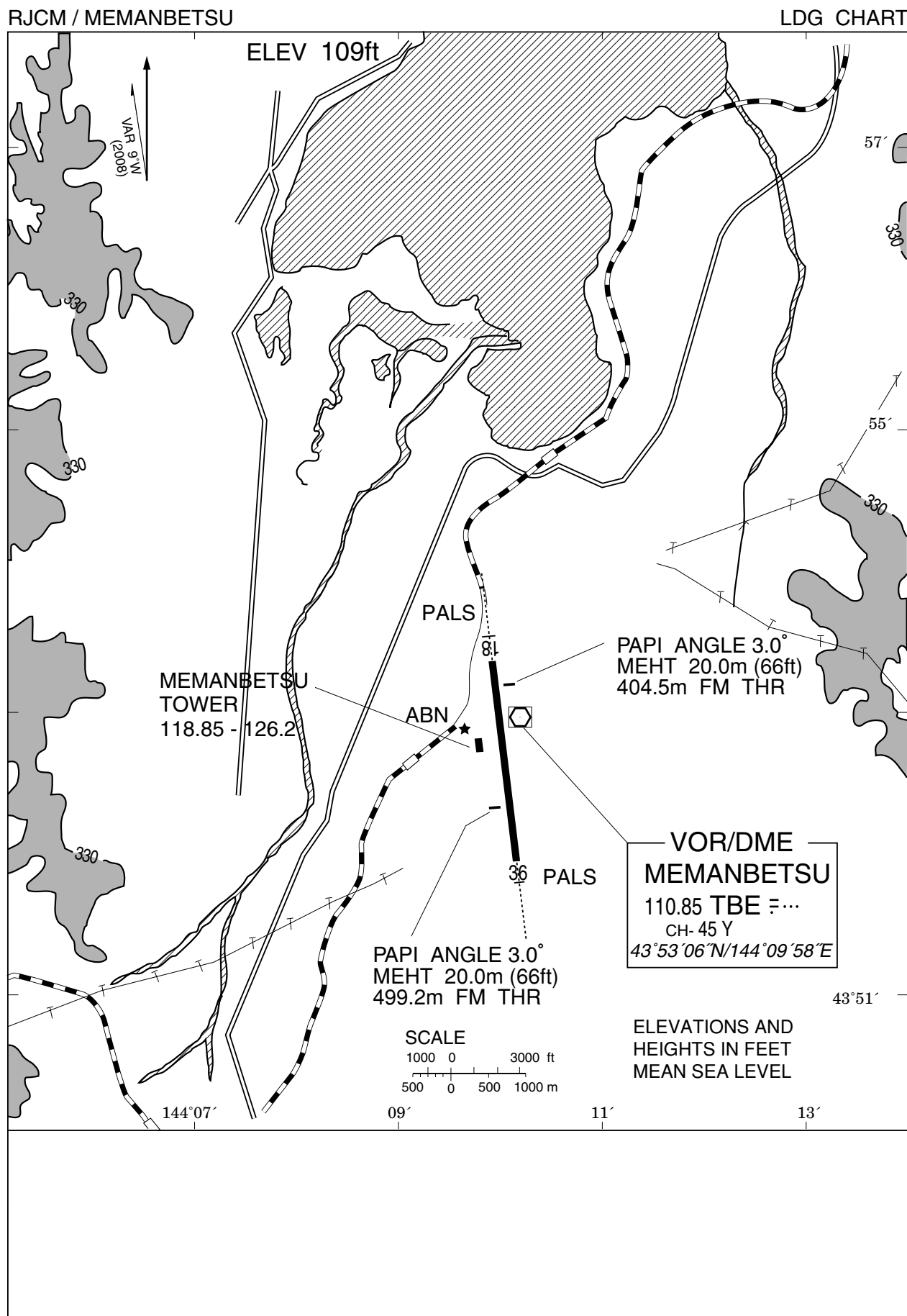
Visual REP



※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
湧沸湖 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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Minimum Vectoring Altitude CHART

