

## AD CHART

[illegible]

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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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

RJCM / MEMANBETSU

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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.



## 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<br>(174.7) | -9.2               | —             | —              | +600          | —            | —              | Basic RNP1               |
| 002           | DF              | NICOL               | —        | —              | -9.2               | —             | R              | +7000         | —            | —              | Basic RNP1               |
| 003           | TF              | NOTAK               | —        | 231<br>(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<br>(354.7) | -9.2               | —             | —              | +600          | —            | —              | Basic RNP1               |
| 002           | DF              | NICOL               | —        | —              | -9.2               | —             | L              | +7000         | —            | —              | Basic RNP1               |
| 003           | TF              | NOTAK               | —        | 231<br>(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/<br>CMV   | MDA(H)    | RVR/<br>CMV  | MDA(H)    | VIS       |
| A      | 302 (200) | 550           | 450 (341) | 900          | 640 (531) | 1600      |
| B      |           |               |           | 1000         |           |           |
| C      |           |               |           |              | 750 (641) | 2400      |
| D      |           |               |           |              | 1400      | 760 (651) |
|        |           |               |           |              |           |           |



## RJCM / MEMANBETSU

ILS or LOC RWY36



## INSTRUMENT APPROACH CHART

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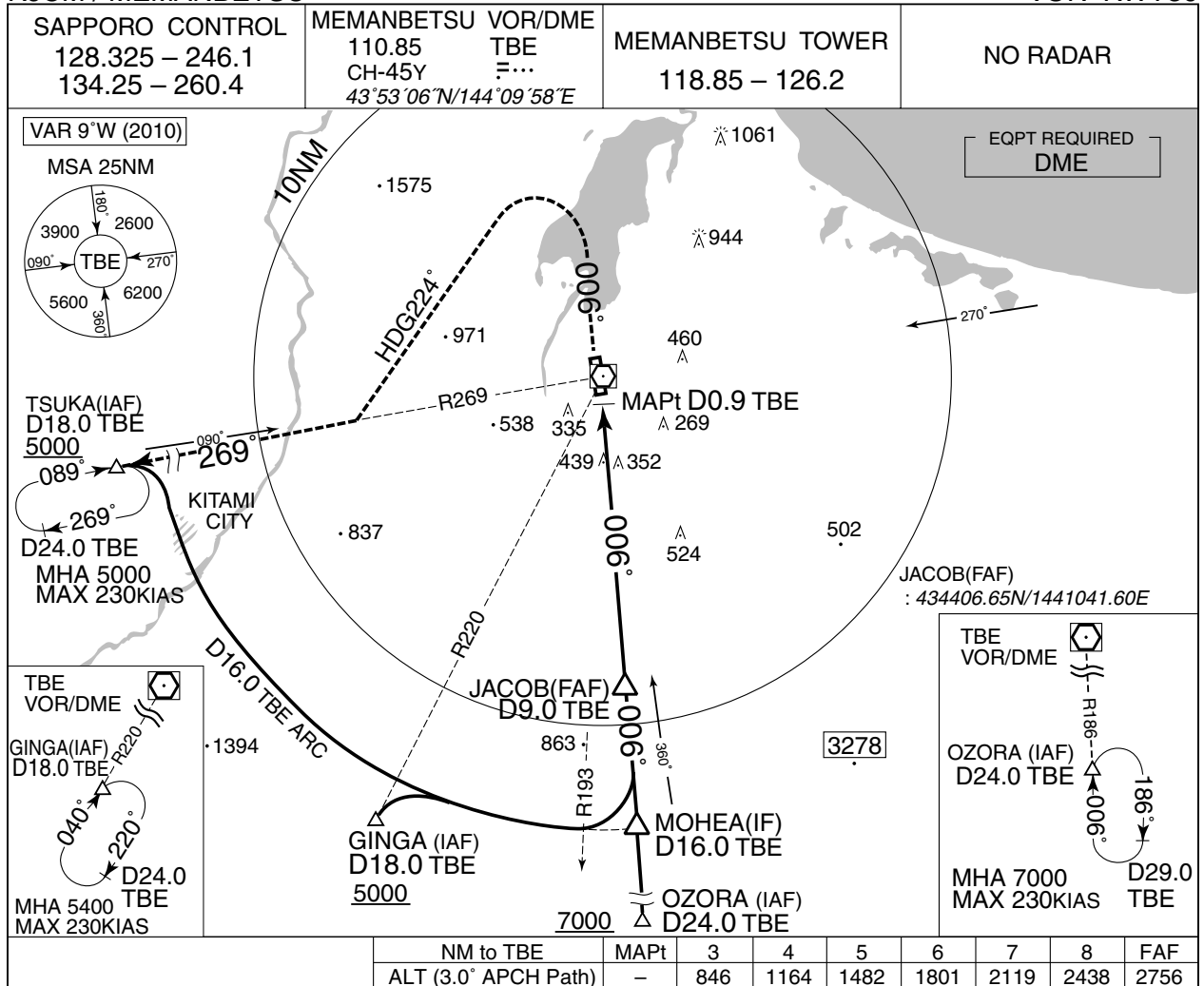
VOR RWY18



## INSTRUMENT APPROACH CHART

RJCM / MEMANBETSU

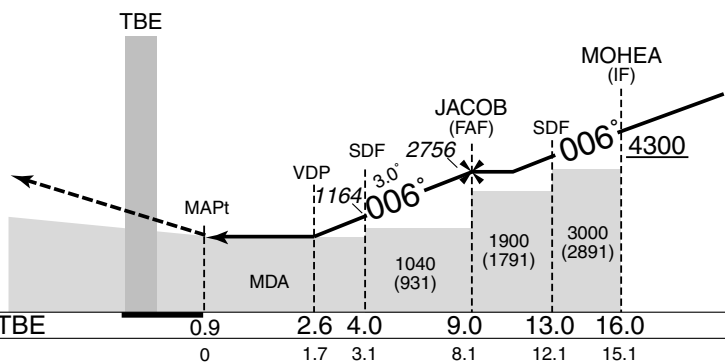
VOR RWY36



## 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/<br>CMV   | MDA(H)    | VIS          |  |
| A      | 690 (581) | 1000          | 690 (581) | 1600         |  |
| B      |           | 1200          |           |              |  |
| C      |           |               |           |              |  |
| 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%

| 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<br>(009.5) | -9.2               | 14.1          | —              | +4300         | —            | —              | 1.0       |
| 003           | TF                               | CM850               | —        | 019<br>(009.6) | -9.2               | 12.0          | —              | +3000         | -185         | —              | 1.0       |
| 004           | RF<br>Center:<br>CMRF1<br>r=3.04 | TENTO               | —        | —              | -9.2               | 4.6           | L              | 2500          | -165         | —              | 1.0       |
| 005           | RF<br>Center:<br>CMRF1<br>r=3.04 | CM851               | —        | —              | -9.2               | 5.7           | L              | 675           | —            | -3.00          | 0.3       |
| 006           | TF                               | RW18                | Y        | 184<br>(174.7) | -9.2               | 1.6           | —              | 156           | —            | -3.00/54       | 0.3       |
| 007           | FA                               | —                   | —        | 184<br>(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 |                          |                          |

RJCM / MEMANBETSU

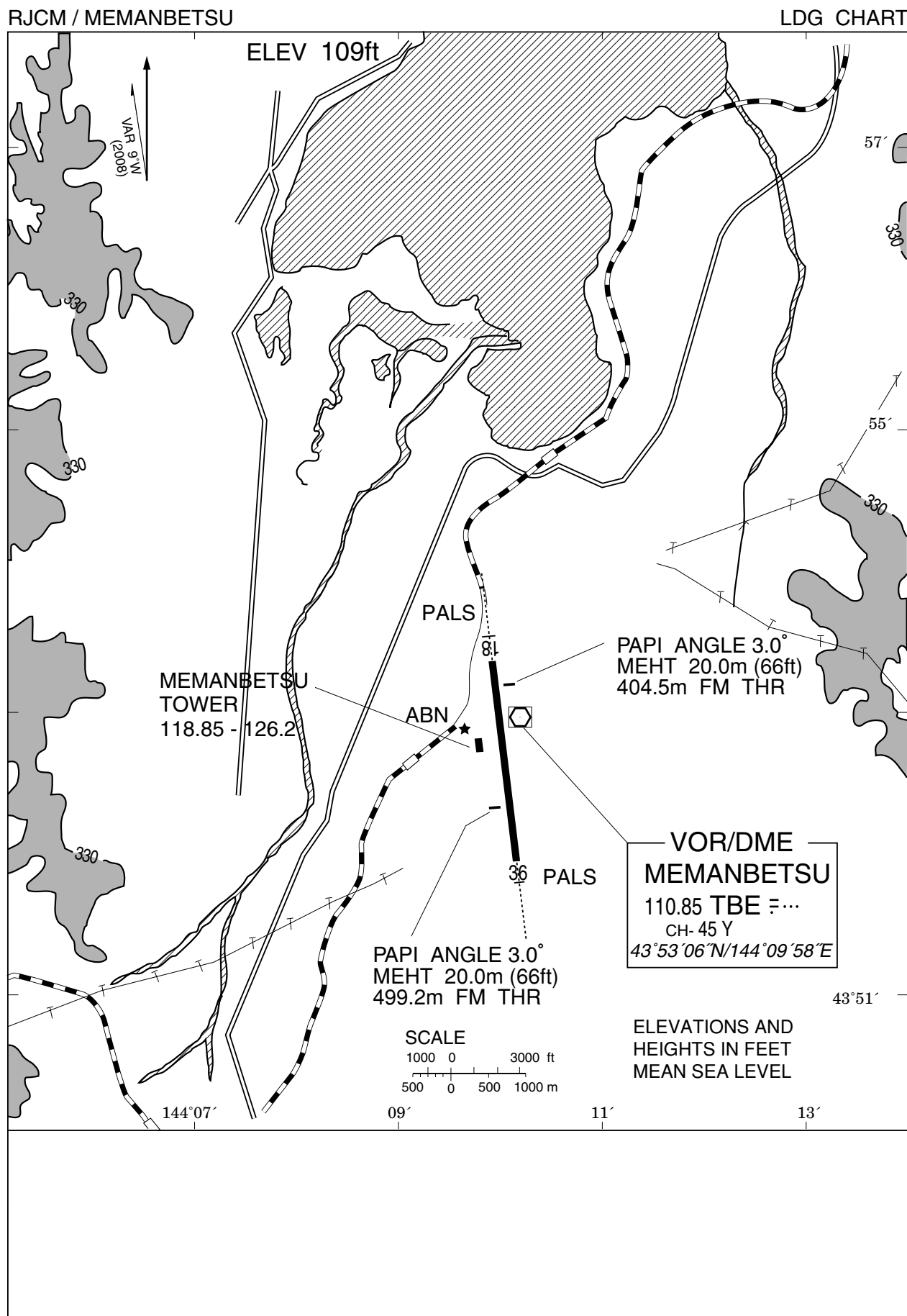
Visual REP



※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<br>Abashiri             | 025°T / 9.2NM       | JR駅<br>Station  |
| 湧沸湖<br>Tofutsuko           | 074°T / 10.5NM      | 湖<br>Lake       |
| 小清水<br>Koshimizu           | 097°T / 13.3NM      | 学校<br>School    |
| 東藻琴<br>Higashimokoto       | 110°T / 6.1NM       | 市街地<br>Town     |
| 美幌峠<br>Bihoro Toge         | 165°T / 14.4NM      | 峠<br>Pass       |
| 津別<br>Tsubetsu             | 210°T / 12.2NM      | 市街地<br>Town     |
| 美幌ステーション<br>Bihoro Station | 223°T / 3.7NM       | JR駅<br>Station  |
| 北見<br>Kitami               | 248°T / 12.4NM      | JR駅<br>Station  |
| 浜佐呂間<br>Hamasaroma         | 321°T / 15.5NM      | 佐呂間大橋<br>Bridge |



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Minimum Vectoring Altitude CHART

