

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.



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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.



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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

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

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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

Civil Aviation Bureau, Japan (EFF:26 APR 2018)

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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

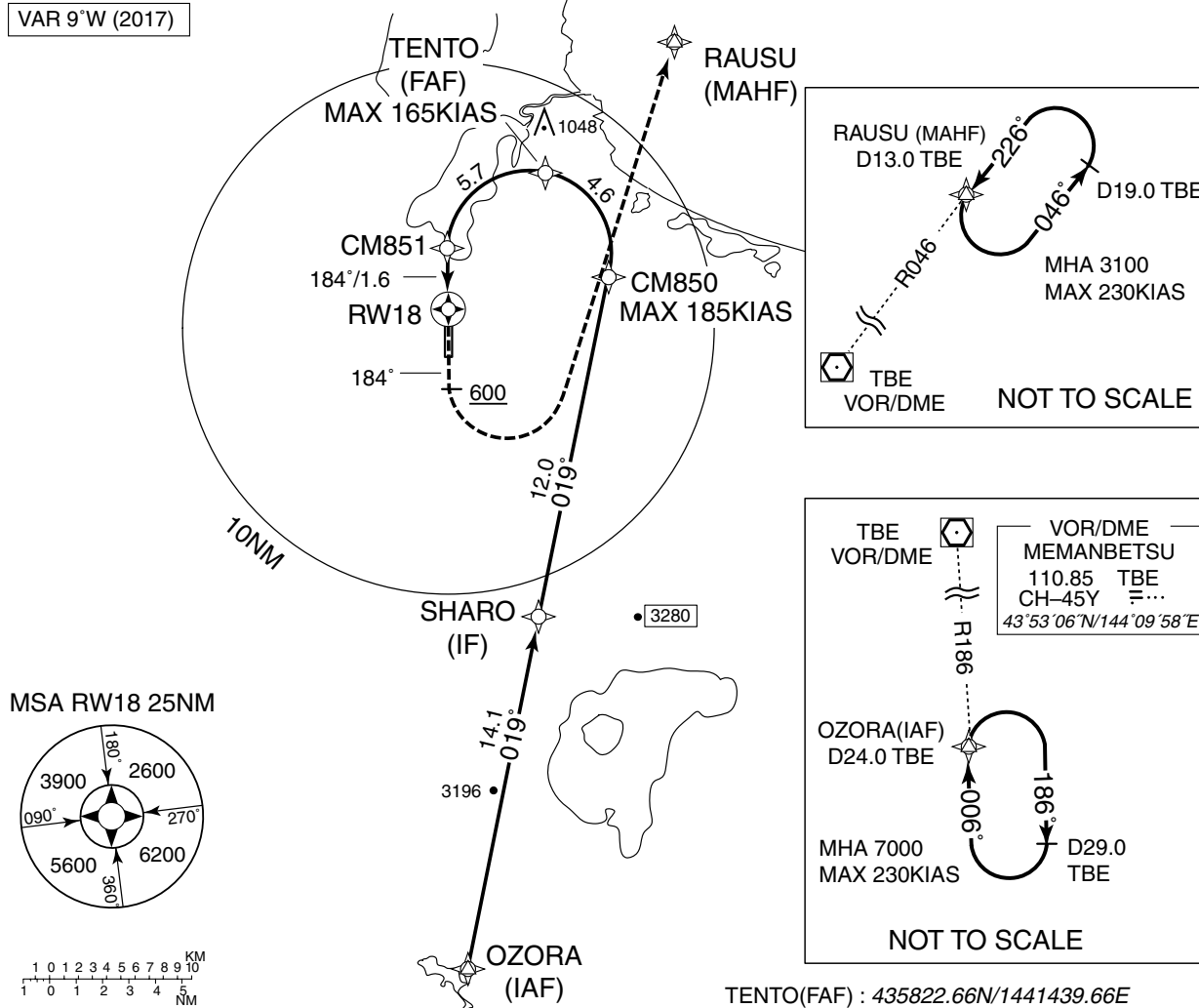
GNSS and RF required.

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 | — | 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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LDG CHART



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Minimum Vectoring Altitude CHART

