

RJEC / ASAHIKAWA

AD CHART

CHANGE : ACFT Stand Lead-in Lines for spot 1 and 2



STANDARD DEPARTURE CHART-INSTRUMENT

RJEC / ASAHIKAWA

SID

KAGRA FOUR DEPARTURE

RWY16 : Climb RWY HDG to 1600FT, turn left,...

RWY34 : Climb via AWE R337 to 2.3DME, turn right,...

...direct to AWE VOR/DME, via AWE R283 to KAGRA.

Cross AWE VOR/DME at or above 4000FT, cross KAGRA at or above 5000FT.

Note RWY16 : 5.3% climb gradient required up to 1600FT.

OBST ALT 1247FT located at 2.0NM 146° FM end of RWY16.

RWY34 : 5.0% climb gradient required up to 1000FT.

OBST ALT 696FT located at 1.4NM 021° FM end of RWY34.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJEC / ASAHIKAWA

SID

ASAHIKAWA REVERSAL FIVE DEPARTURE

RWY16 : Climb RWY HDG to 1600FT, turn left HDG320° to intercept and proceed ...

RWY34 : Climb via AWE R337 to 2.3DME, turn right,...

... via AWE R005 to 8.5DME, turn right, direct to AWE VOR/DME.

Cross AWE VOR/DME at or above 5000FT (8000FT for East bound).

Note RWY16 : 5.3% climb gradient required up to 1600FT.

OBST ALT 1247FT located at 2.0NM 146° FM end of RWY16.

ASAHIKAWA REVERSAL FIVE DEPARTURE

STANDARD ARRIVAL CHART-INSTRUMENT

RJEC / ASAHIKAWA

RNAV STAR RWY16

OSOBA ARRIVAL

Basic RNP1

Note GNSS required.

VAR 10° W(2017)



OSOBA ARRIVAL

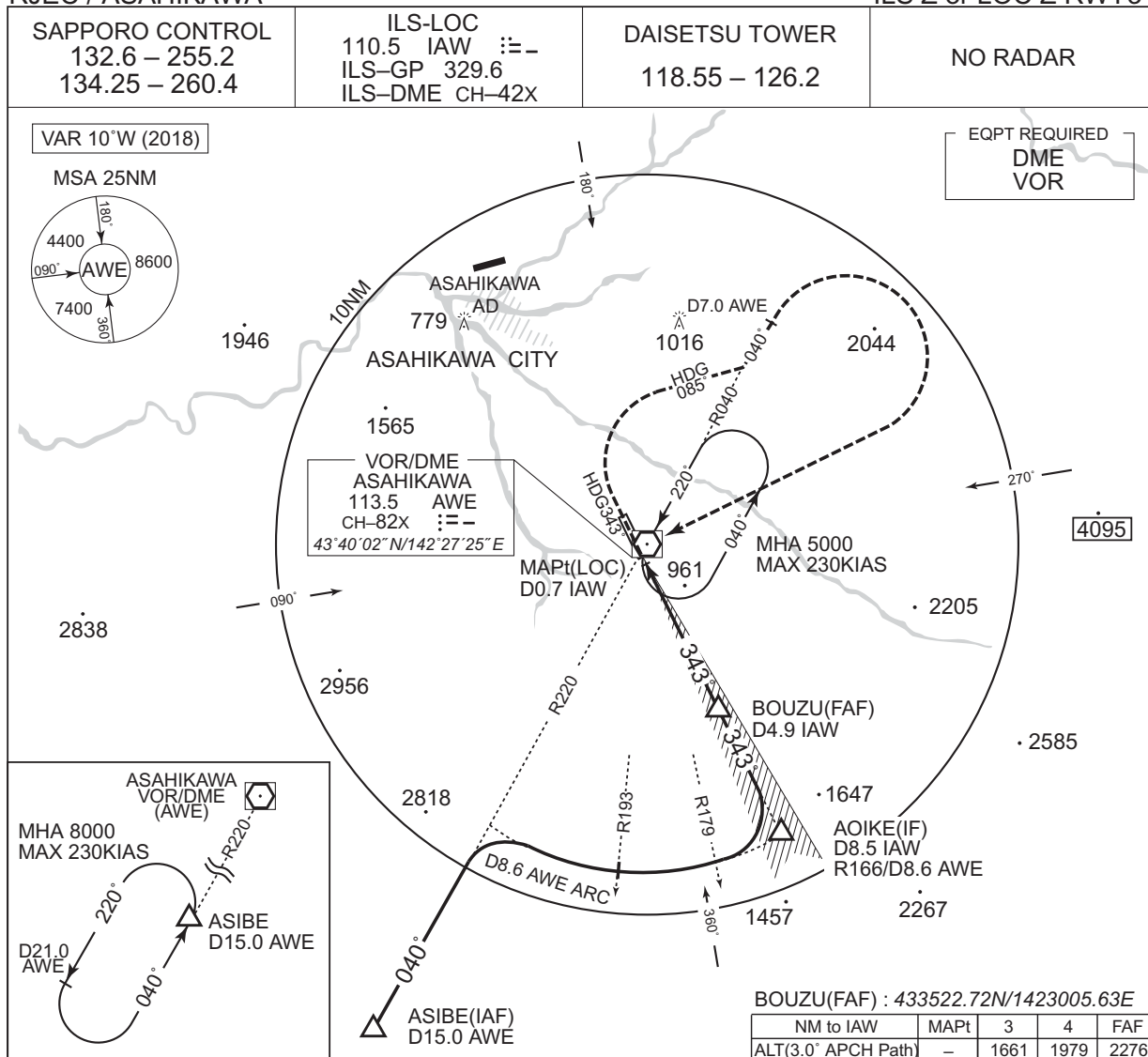
From ASIBE at or above 8000FT, to OSOBA at or above 6000FT.

| 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           | IF              | ASIBE               | —        | —              | -9.5               | —             | —              | +8000         | —            | —              | Basic RNP1               |
| 002           | TF              | OSOBA               | —        | 006<br>(356.1) | -9.5               | 25.5          | —              | +6000         | —            | —              | Basic RNP1               |

INSTRUMENT APPROACH CHART

RJEC / ASAHIKAWA

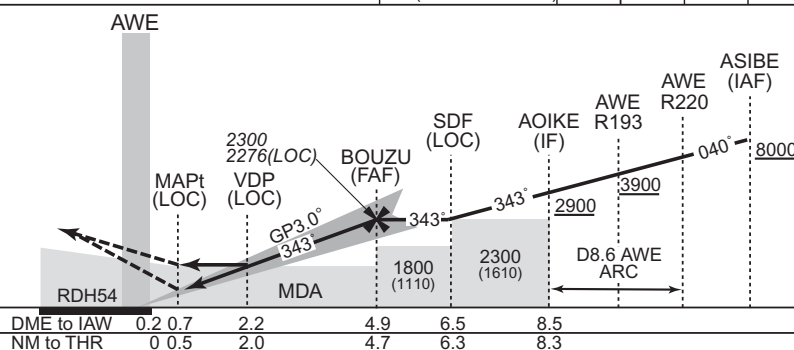
ILS Z or LOC Z RWY34



MISSED APPROACH

Climb on HDG343° to 1200FT, turn right HDG085° to intercept and proceed via AWE R040 to 7.0DME, turn right, direct to AWE VOR/DME and hold at 5000FT. Contact DAISETSU TOWER.

No turn before IAW 0.7DME.



Missed APCH climb gradient MNM 5.0%

| MINIMA |          | THR elev. 721 |           | AD elev. 690 |           |      |
|--------|----------|---------------|-----------|--------------|-----------|------|
| CAT    | CAT I    |               | LOC       |              | CIRCLING  |      |
|        | DA(H)    | RVR/CMV       | MDA(H)    | RVR/CMV      | MDA(H)    | VIS  |
| A      | 921(200) | 550           | 1370(680) | 1200         | 1370(680) | 1600 |
| B      |          |               |           | 1400         |           |      |
| C      |          |               |           | 1800         | 1560(870) | 2400 |
| D      |          |               |           |              |           |      |

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

CHANGE: GP angle added.

## INSTRUMENT APPROACH CHART

RJEC / ASAHIKAWA

ILS Y or LOC Y RWY34

|  |  |                                  |          |
|--|--|----------------------------------|----------|
| SAPPORO CONTROL<br>132.6 – 255.2<br>134.25 – 260.4 | ILS-LOC<br>110.5 IAW :≡-<br>ILS-GP 329.6<br>ILS-DME CH-42X | DAISETSU TOWER<br>118.55 – 126.2 | NO RADAR |
|--|--|----------------------------------|----------|



## MISSED APPROACH

Climb on HDG343° to 1200FT, turn right HDG085° to intercept and proceed via AWE R040 to 7.0DME, turn right, direct to AWE VOR/DME and hold at 5000FT. Contact DAISETSU TOWER.

No turn before IAW 0.7DME.



Missed APCH climb gradient MNM 5.0%

| MINIMA |          | THR elev. 721 |           | AD elev. 690 |           |      |
|--------|----------|---------------|-----------|--------------|-----------|------|
| CAT    | CAT I    |               | LOC       |              | CIRCLING  |      |
|        | DA(H)    | RVR/CMV       | MDA(H)    | RVR/CMV      | MDA(H)    | VIS  |
| A      | 921(200) | 550           | 1370(680) | 1200         | 1370(680) | 1600 |
| B      |          |               |           | 1400         |           |      |
| C      |          |               |           | 1800         | 1560(870) | 2400 |
| D      |          |               |           |              |           |      |

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

CHANGE: GP angle added.

INSTRUMENT APPROACH CHART

RJEC / ASAHIKAWA

VOR A

|  |   |                                  |          |
|--|---|----------------------------------|----------|
| SAPPORO CONTROL<br>132.6 – 255.2<br>134.25 – 260.4 | ASAHIKAWA VOR/DME<br>113.5 AWE<br>CH-82X :-<br>43°40'02"N / 142°27'25"E | DAISETSU TOWER<br>118.55 – 126.2 | NO RADAR |
|--|---|----------------------------------|----------|



Missed APCH climb gradient MNM 5.0%

| MINIMA |           | AD elev. 690 |
|--------|-----------|--------------|
| CAT    | CIRCLING  |              |
|        | MDA(H)    | VIS          |
| A      | 1460(770) | 1600         |
| B      | 1460(770) | 1600         |
| C      | 1560(870) | 2400         |
| D      | 1560(870) | 3200         |

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

## INSTRUMENT APPROACH CHART

RJEC / ASAHIKAWA

VOR B



## MISSED APPROACH

Turn right HDG085° to intercept and proceed via AWE R040 to 7.0DME, turn right, direct to AWE VOR/DME and hold at 5000FT.  
Contact DAISETSU TOWER.

No turn before MAPt.  
Timing not authorized for defining the MAPt.



Missed APCH climb gradient MNM 5.0%

| MINIMA AD elev. 690 |           |      |
|---------------------|-----------|------|
| CAT                 | CIRCLING  |      |
|                     | MDA(H)    | VIS  |
| A                   | 1460(770) | 1600 |
| B                   |           | 1600 |
| C                   | 1560(870) | 2400 |
| D                   |           | 3200 |

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

CHANGE : VAR



INSTRUMENT APPROACH CHART

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VOR C



## INSTRUMENT APPROACH CHART

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RNP Z RWY16



CHANGE:PROC renamed. Requirement for RNP.

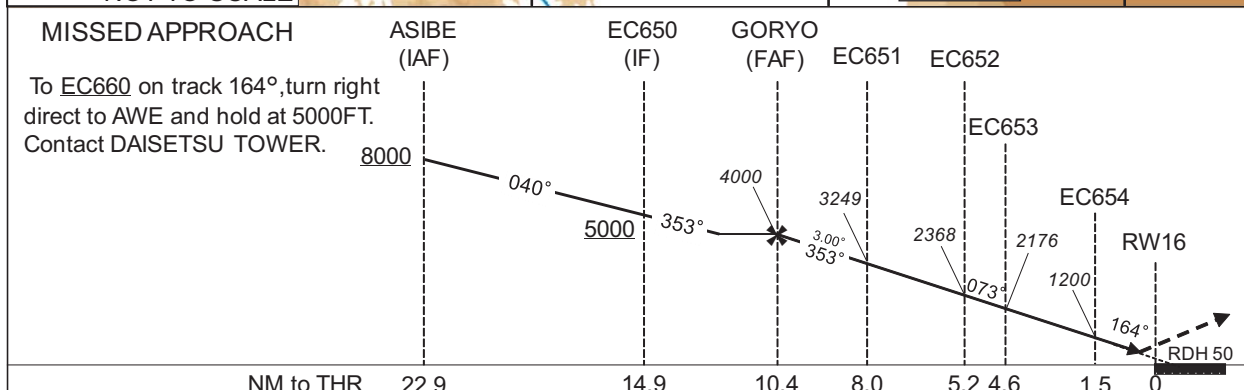
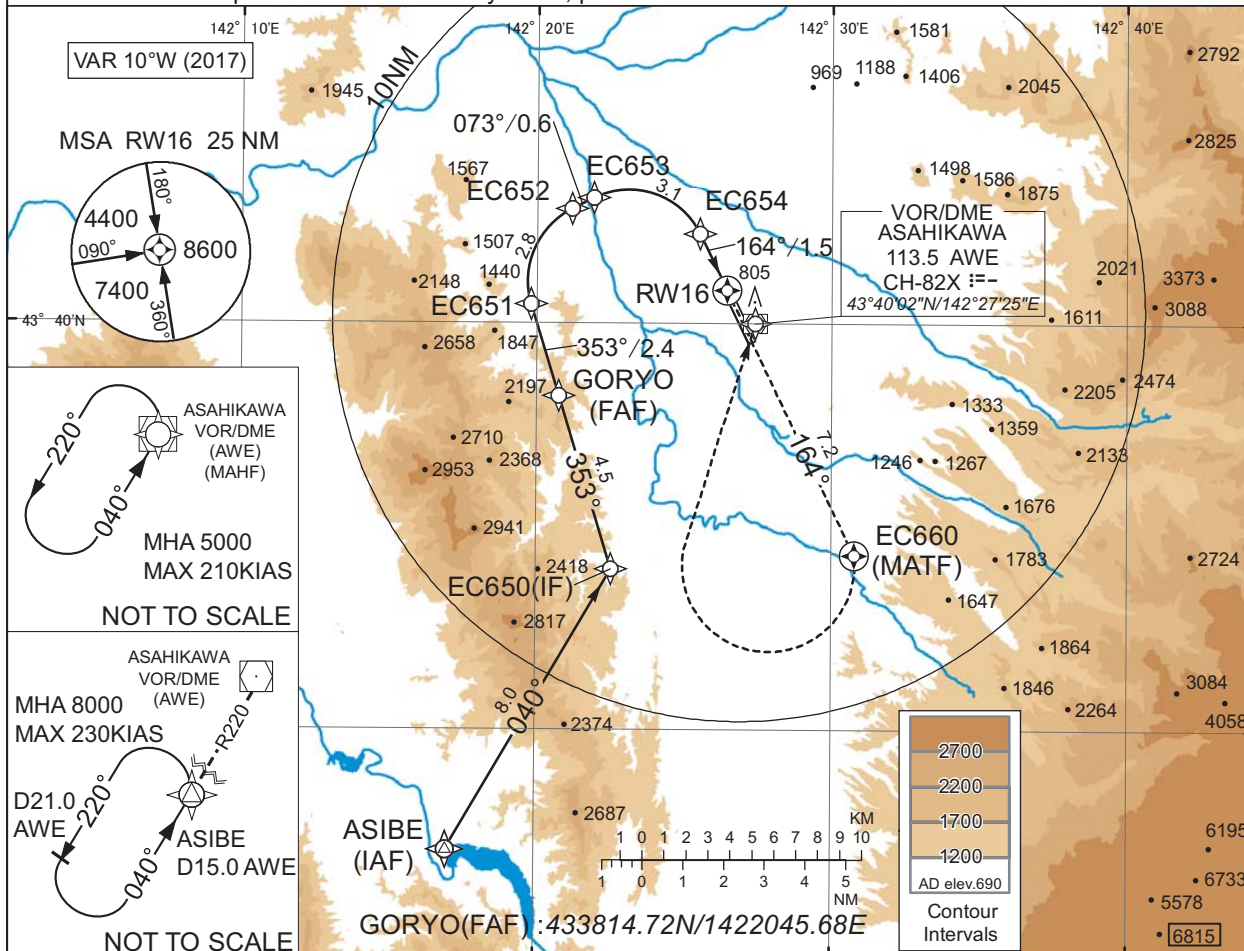
INSTRUMENT APPROACH CHART

RJEC / ASAHIKAWA

RNP Y RWY16(AR)

|  |                        |                                  |          |
|--|------------------------|----------------------------------|----------|
| SAPPORO CONTROL<br>132.6 - 255.2<br>134.25 - 260.4 | RNP AR<br>RF required. | DAISETSU TOWER<br>118.55 - 126.2 | NO RADAR |
|--|------------------------|----------------------------------|----------|

For uncompensated Baro-VNAV systems, procedure not authorized below -30°C / above 45°C



|                                     |               |              |
|-------------------------------------|---------------|--------------|
| Missed APCH climb gradient MNM 3.0% |               |              |
| MINIMA                              | THR elev. 660 | AD elev. 690 |
| CAT                                 | RNP 0.30      |              |
|                                     | DA(H)         | CMV          |
| A                                   | -             | -            |
| B                                   | -             | -            |
| C                                   | 960(300)      | 1400         |
| D                                   | -             | -            |

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

**Authorization Required**

## INSTRUMENT APPROACH CHART

RJEC / ASAHIKAWA

RNP Y RWY16(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                                 | ASIBE               | -        | -              | -9.5               | -             | -              | +8000         | -            | -               | -         |
| 002           | TF                                 | EC650               | -        | 040<br>(030.1) | -9.5               | 8.0           | -              | +5000         | -            | -               | 1.0       |
| 003           | TF                                 | GORYO               | -        | 353<br>(343.1) | -9.5               | 4.5           | -              | 4000          | -            | -               | 1.0       |
| 004           | TF                                 | EC651               | -        | 353<br>(343.0) | -9.5               | 2.4           | -              | 3249          | -            | -3.00           | 0.30      |
| 005           | RF<br>Center:<br>ECRF1<br>r=1.98NM | EC652               | -        | -              | -9.5               | 2.8           | R              | 2368          | -            | -3.00           | 0.30      |
| 006           | TF                                 | EC653               | -        | 073<br>(063.0) | -9.5               | 0.6           | -              | 2176          | -            | -3.00           | 0.30      |
| 007           | RF<br>Center:<br>ECRF2<br>r=1.93NM | EC654               | -        | -              | -9.5               | 3.1           | R              | 1200          | -            | -3.00           | 0.30      |
| 008           | TF                                 | RW16                | Y        | 164<br>(154.2) | -9.5               | 1.5           | -              | 710           | -            | -3.00/50        | 0.30      |
| 009           | CF                                 | EC660               | Y        | 164<br>(154.2) | -9.5               | 7.2           | -              | -             | -            | -               | 1.0       |
| 010           | DF                                 | AWE                 | -        | -              | -9.5               | -             | R              | 5000          | -            | -               | 1.0       |

Waypoint Coordinates

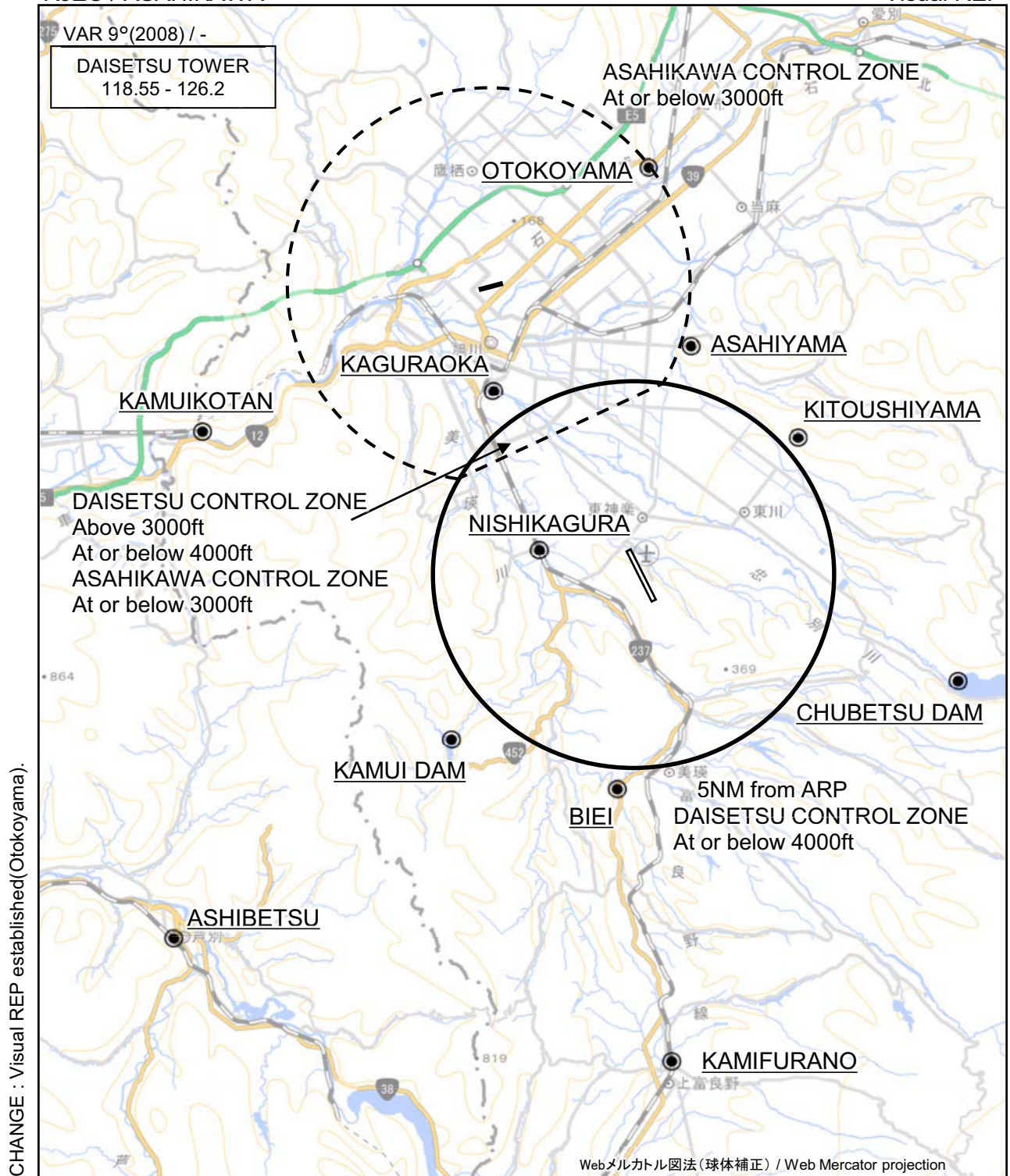
| Waypoint Identifier | Coordinates              | RF Arc Center Identifier | Coordinates              |
|---------------------|--------------------------|--------------------------|--------------------------|
| ASIBE               | 432703.98N / 1421700.93E | ECRF1                    | 434104.78N / 1422225.25E |
| EC650               | 433359.28N / 1422233.14E | ECRF2                    | 434123.69N / 1422307.68E |
| GORYO               | 433814.72N / 1422045.68E |                          |                          |
| EC651               | 434030.03N / 1421948.65E |                          |                          |
| EC652               | 434250.78N / 1422111.17E |                          |                          |
| EC653               | 434307.07N / 1422155.45E |                          |                          |
| EC654               | 434214.29N / 1422531.40E |                          |                          |
| RW16                | 434051.04N / 1422626.96E |                          |                          |
| EC660               | 433419.98N / 1423047.35E |                          |                          |
| AWE                 | 434002.15N / 1422724.65E |                          |                          |

CHANGE : PROC renamed.



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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).

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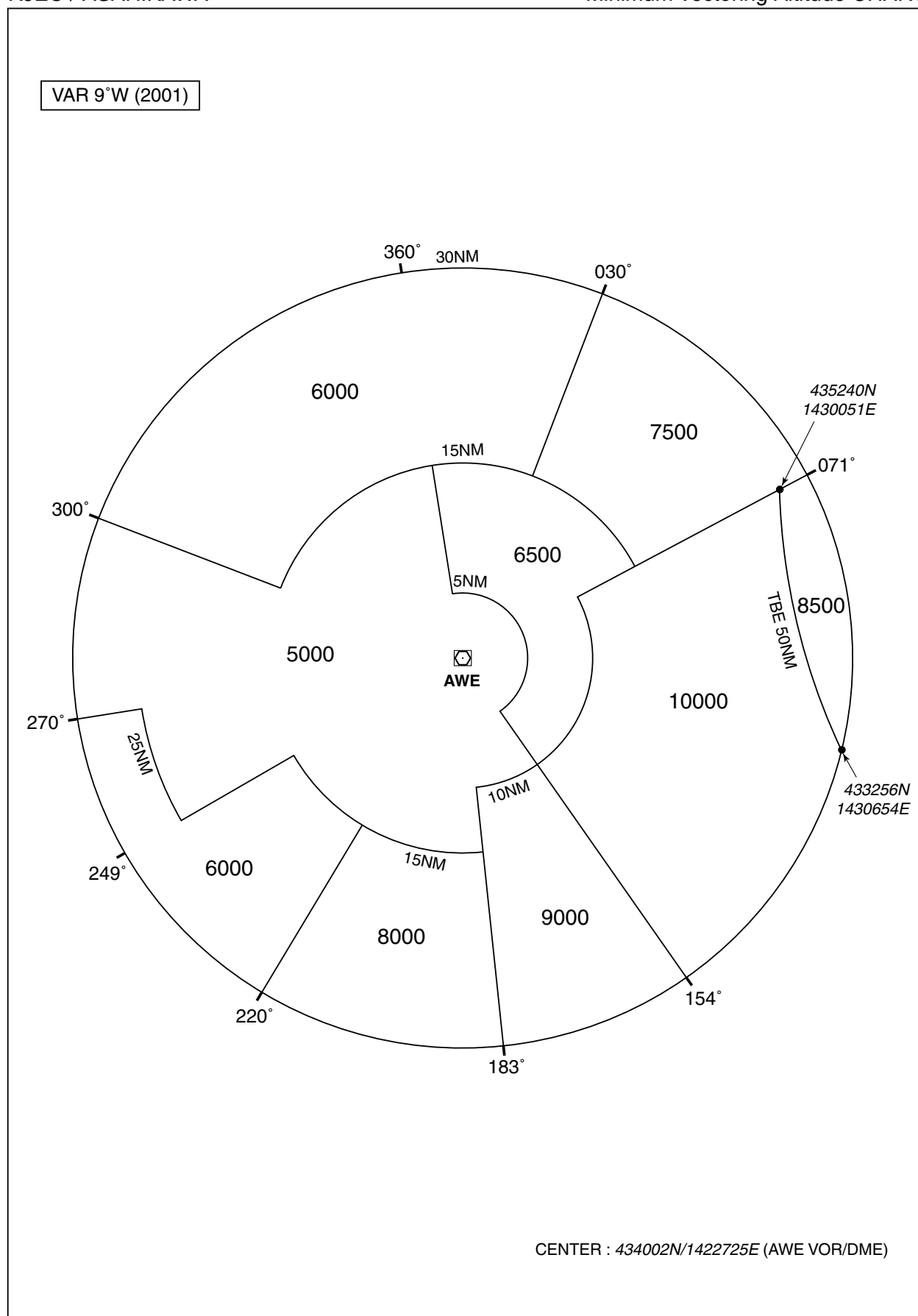
Visual REP

| Call sign            | BRG / DIST from ARP | Remarks            |
|----------------------|---------------------|--------------------|
| 男山<br>Otokoyama      | 002°T / 10.4NM      | 男山自然公園<br>Park     |
| 旭山<br>Asahiyama      | 014°T / 6.0NM       | 旭山動物園<br>Zoo       |
| 神楽岡<br>Kaguraoka     | 324°T / 5.9NM       | 神楽岡公園<br>Park      |
| 神居古潭<br>Kamuikotan   | 289°T / 11.3NM      | 橋<br>Bridge        |
| 岐登牛山<br>Kitoushiyama | 049°T / 5.4NM       | スキー場<br>Ski ground |
| 西神楽<br>Nishikagura   | 286°T / 2.4NM       | JR駅<br>Station     |
| 忠別ダム<br>Chubetsu dam | 108°T / 8.5NM       | ダム<br>Dam          |
| 神居ダム<br>Kamui dam    | 227°T / 6.2NM       | ダム<br>Dam          |
| 美瑛<br>Biei           | 184°T / 5.5NM       | 道路(大曲)<br>Road     |
| 芦別<br>Ashibetsu      | 231°T / 14.7NM      | JR駅<br>Station     |
| 上富良野<br>Kamifurano   | 176°T / 12.4NM      | JR駅<br>Station     |

CHANGE : Visual REP established(Otokoyama).

RJEC / ASAHIKAWA

Minimum Vectoring Altitude CHART



**INTENTIONALLY LEFT BLANK**