

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 (356.1) | -9.5 | 25.5 | — | +6000 | — | — | Basic RNP1 |

INSTRUMENT APPROACH CHART

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ILS Z or LOC Z RWY34



CHANGE: GP angle added.

INSTRUMENT APPROACH CHART

RJEC / ASAHIKAWA

ILS Y or LOC Y RWY34

| | | | |
|--|--|----------------------------------|----------|
| SAPPORO CONTROL 132.6 – 255.2 134.25 – 260.4 | ILS-LOC 110.5 IAW :≡- ILS-GP 329.6 ILS-DME CH-42X | DAISETSU TOWER 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) |
| D | | | | 3200 | | |

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 132.6 – 255.2 134.25 – 260.4 | ASAHIKAWA VOR/DME 113.5 AWE CH-82X :- 43°40'02"N / 142°27'25"E | DAISETSU TOWER 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 | | 1600 |
| C | 1560(870) | 2400 |
| D | | 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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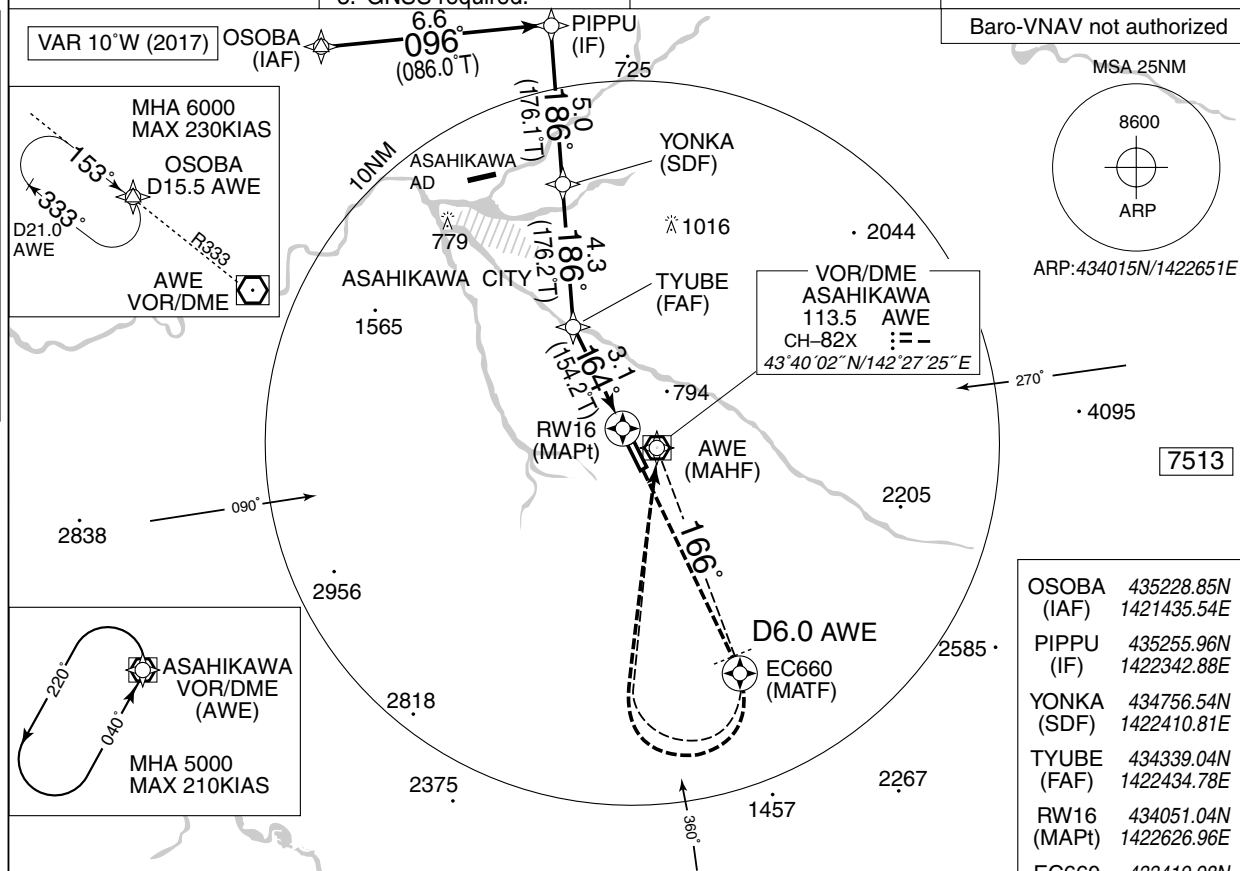
VOR C



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RNAV(GNSS) Z RWY16

| | | | |
|--|--|--------------------------------------|----------|
| SAPPORO CONTROL 132.6 – 255.2 134.25 – 260.4 | 1. DME/DME RNP0.3 not authorized. 2. RNP0.3 required. 3. GNSS required. | DAISETSU TOWER 118.55 – 126.2 | NO RADAR |
|--|--|--------------------------------------|----------|

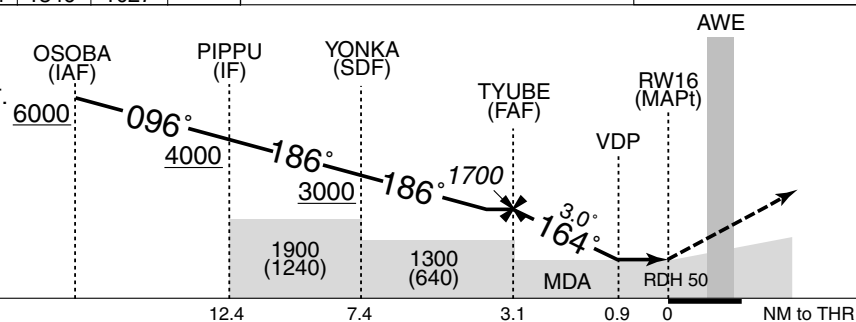


| | |
|-----------------|---------------------------|
| OSOBA (IAF) | 435228.85N 1421435.54E |
| PIPPU (IF) | 435255.96N 1422342.88E |
| YONKA (SDF) | 434756.54N 1422410.81E |
| TYUBE (FAF) | 434339.04N 1422434.78E |
| RW16 (MAPt) | 434051.04N 1422626.96E |
| EC660 (MATF) | 433419.98N 1423047.35E |
| AWE (MAHF) | 434002.15N 1422724.65E |

| | | | | | |
|----------------------|------|------|------|------|------|
| NM to Next Fix | FAF | 3 | 2 | 1 | MAPt |
| ALT (3.0° APCH Path) | 1700 | 1664 | 1346 | 1027 | – |

Direct to EC660, turn right
direct to AWE and hold at 5000FT.
Contact DAISETSU TOWER.

Climb via AWE R166 to 6.0DME,
turn right, direct to AWE
VOR/DME and hold at 5000FT.
Contact DAISETSU TOWER.



Missed APCH climb gradient MNM 3.1%

| MINIMA | | THR elev. 660 | | AD elev. 690 | | |
|--------|------------------|---------------|--------------|--------------|------------|------|
| CAT | LNAV/VNAV | | LNAV | | CIRCLING | |
| | DA(H) | CMV | MDA(H) | CMV | MDA(H) | VIS |
| A | ■ Not applicable | | ■ 1000 (340) | 1200 | 1280 (590) | 1600 |
| B | | | | 1300 | 1330 (640) | |
| C | | | | 1400 | 1560 (870) | 2400 |
| D | | | | 1600 | | 3200 |

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

INSTRUMENT APPROACH CHART

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➔ RNAV(RNP) Y RWY16

| | | | |
|--|-----------------------|----------------------------------|----------|
| SAPPORO CONTROL 132.6 – 255.2 134.25 – 260.4 | GNSS and RF required. | DAISETSU TOWER 118.55 – 126.2 | NO RADAR |
|--|-----------------------|----------------------------------|----------|

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



MISSED APPROACH

To EC660 on track 164°, turn right
direct to AWE and hold at 5000FT.
Contact DAISETSU TOWER.



NM to THR

22.9

14.9

10.4

8.0

5.2

4.6

1.5

0

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.

RNP AR
Special Authorization Required

INSTRUMENT APPROACH CHART

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➡ RNAV(RNP) Y RWY16

RNAV (RNP) Y RWY16Coding 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 (030.1) | -9.5 | 8.0 | — | +5000 | — | — | 1.0 |
| 003 | TF | GORYO | — | 353 (343.1) | -9.5 | 4.5 | — | 4000 | — | — | 1.0 |
| 004 | TF | EC651 | — | 353 (343.0) | -9.5 | 2.4 | — | 3249 | — | -3.00 | 0.30 |
| 005 | RF Center: ECRF1 r=1.98NM | EC652 | — | — | -9.5 | 2.8 | R | 2368 | — | -3.00 | 0.30 |
| 006 | TF | EC653 | — | 073 (063.0) | -9.5 | 0.6 | — | 2176 | — | -3.00 | 0.30 |
| 007 | RF Center: ECRF2 r=1.93NM | EC654 | — | — | -9.5 | 3.1 | R | 1200 | — | -3.00 | 0.30 |
| 008 | TF | RW16 | Y | 164 (154.2) | -9.5 | 1.5 | — | 710 | — | -3.00/50 | 0.30 |
| 009 | CF | EC660 | Y | 164 (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 | | |

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Visual REP



| Call sign | BRG / DIST from ARP | Remarks |
|----------------------|---------------------|--------------------|
| 旭山 Asahiyama | 022°/ 6.0NM | 旭山動物園 Zoo |
| 神楽岡 Kaguraoka | 332°/ 5.9NM | 神楽岡公園 Park |
| 神居古潭 Kamuikotan | 298°/11.3NM | 橋 Bridge |
| 美瑛 Biei | 194°/ 5.3NM | 道路 (大曲) Road |
| 西神楽 Nishikagura | 296°/ 2.4NM | JR駅 Station |
| 上富良野 Kamifurano | 185°/12.4NM | JR駅 Station |
| 芦別 Ashibetsu | 240°/14.7NM | JR駅 Station |
| 忠別ダム Chubetsu dam | 119°/ 8.3NM | ダム Dam |
| 神居ダム Kamui dam | 237°/ 6.1NM | ダム Dam |
| 岐登牛山 Kitoushiyama | 060°/ 5.6NM | スキー場 Ski ground |

RJEC / ASAHIKAWA

Minimum Vectoring Altitude CHART

