

RJEB / MONBETSU

AD CHART



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STANDARD DEPARTURE CHART-INSTRUMENT

RJEB / MONBETSU

SID and TRANSITION

MONBETSU REVERSAL FIVE DEPARTURE

RWY14 : Climb RWY HDG to 600FT, turn left HDG050°, to 2500FT turn left,...

RWY32 : Climb RWY HDG to 500FT, turn right HDG050°, to 2500FT turn right,...
...direct to MVE VOR/DME.

Cross MVE VOR/DME at or above 4000FT.

Note RWY14 : 5.0% climb gradient required up to 900FT.

OBST ALT 591FT located at 2.7NM 156° FM end of RWY14.

RWY32: 4.3% climb gradient required up to 800FT.

OBST ALT 657FT located at 3.5NM 316° FM end of RWY32.

LUBEK TRANSITION

From over MVE VOR/DME, proceed via MVE R236 to LUBEK.

Cross LUBEK at or above 8000FT.



STANDARD DEPARTURE CHART-INSTRUMENT

RJB / MONBETSU

RNAV SID

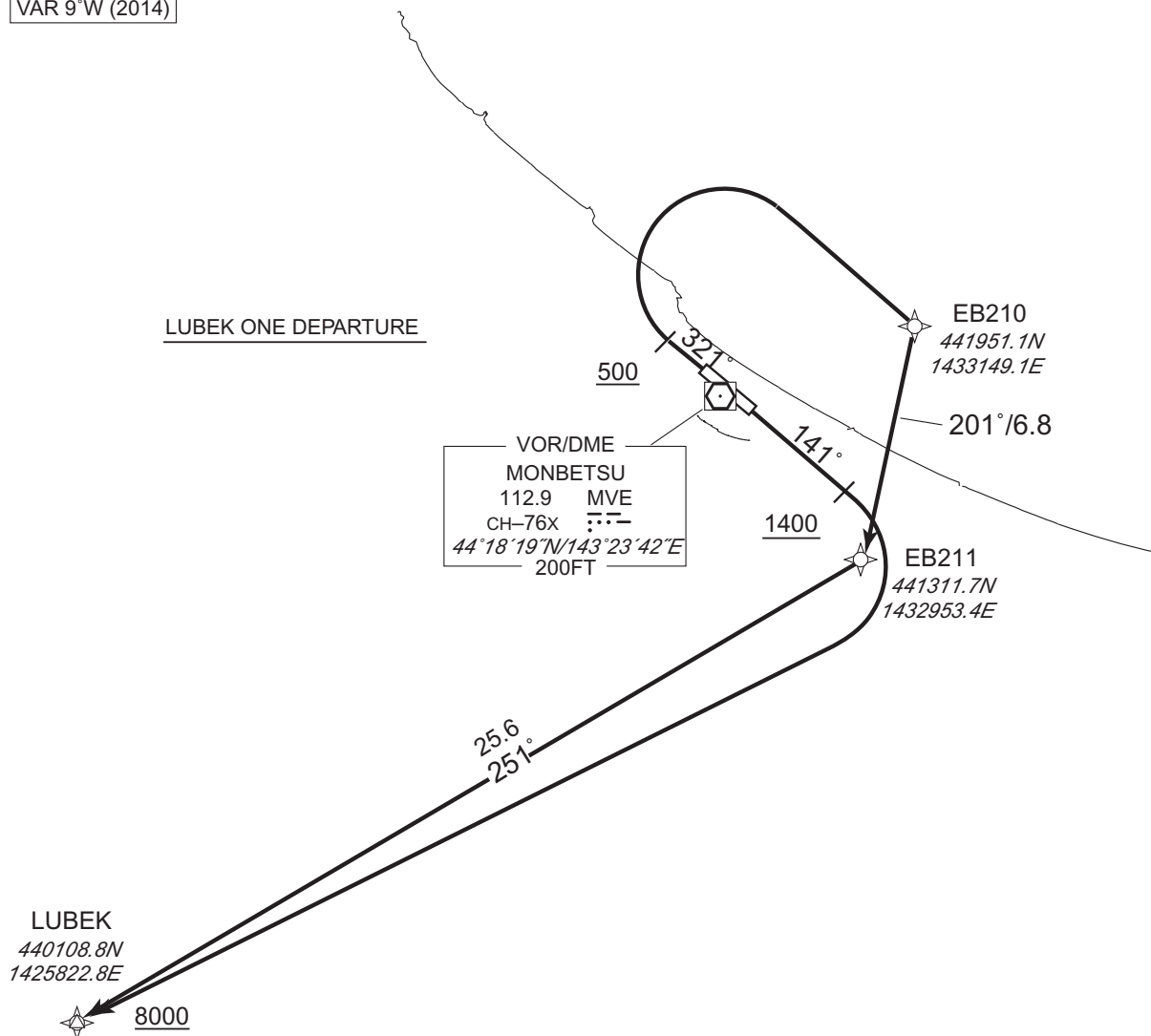
LUBEK ONE DEPARTURE

Basic RNP1

Note GNSS required.

VAR 9°W (2014)

LUBEK ONE DEPARTURE



LUBEK ONE DEPARTURE

RWY14 : Climb on HDG141° at or above 1400FT, turn right direct to LUBEK at or above 8000FT.

RWY32 : Climb on HDG321° at or above 500FT, turn right direct to EB210, to EB211, to LUBEK at or above 8000FT.

Note RWY14 : 5.0% climb gradient required up to 1400FT.
OBST ALT 1182FT located at 2.9NM 172° FM end of RWY14.

RWY32 : 5.0% climb gradient required up to 700FT.
OBST ALT 657FT located at 3.4NM 318° FM end of RWY32.

STANDARD DEPARTURE CHART-INSTRUMENT

RJEB / MONBETSU

RNAV SID

LUBEK ONE DEPARTURE

RWY14

| 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 | — | — | 141 (132.0) | -9.2 | — | — | +1400 | — | — | Basic RNP1 |
| 002 | DF | LUBEK | — | — | -9.2 | — | R | +8000 | — | — | Basic RNP1 |

RWY32

| 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 | — | — | 321 (312.0) | -9.2 | — | — | +500 | — | — | Basic RNP1 |
| 002 | DF | EB210 | — | — | -9.2 | — | R | — | — | — | Basic RNP1 |
| 003 | TF | EB211 | — | 201 (191.7) | -9.2 | 6.8 | — | — | — | — | Basic RNP1 |
| 004 | TF | LUBEK | — | 251 (242.1) | -9.2 | 25.6 | — | +8000 | — | — | Basic RNP1 |

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| NM to IMV | MAPt | 2 | 3 | 4 | 5 | 6 | 7 | FAF |
|----------------------|------|-----|------|------|------|------|------|------|
| ALT (3.0° APCH Path) | - | 703 | 1022 | 1340 | 1659 | 1977 | 2296 | 2448 |

*Not applicable for CAT D circling

Turn initiation within D12.0 MVE

4000

125°

MAPt (LOC)

*SDF (LOC)

VDP (LOC)

MDA

840 (782)

1800 (1742)

2500

2448 (LOC)

KOMKE (FAF)

321°

GP 3.0°

321°

RDH 54

0.2 0.7 1.5 2.7 7.5

0 0.5 1.3 2.5 7.3

| | | | | | | |
|-------------------------------------|-----------|--------------|-----------|-------------|-------------|-----------|
| Missed APCH climb gradient MNM 4.0% | | | | | | |
| MINIMA | | THR elev. 72 | | AD elev. 58 | | |
| CAT | CAT I | | LOC | | CIRCLING | |
| | DA(H) | RVR/ CMV | MDA(H) | RVR/ CMV | MDA(H) | VIS |
| | 272 (200) | 550 | 510 (452) | 1000 | 510 (452) | 1600 |
| | | | | | 530 (472) | |
| | | | | | 1200 | 830 (772) |
| | | | | 1600 | 1150 (1092) | 3200 |

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

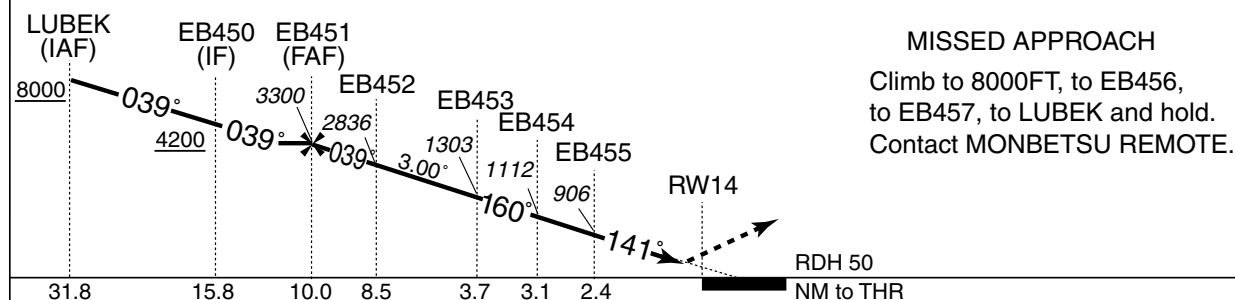
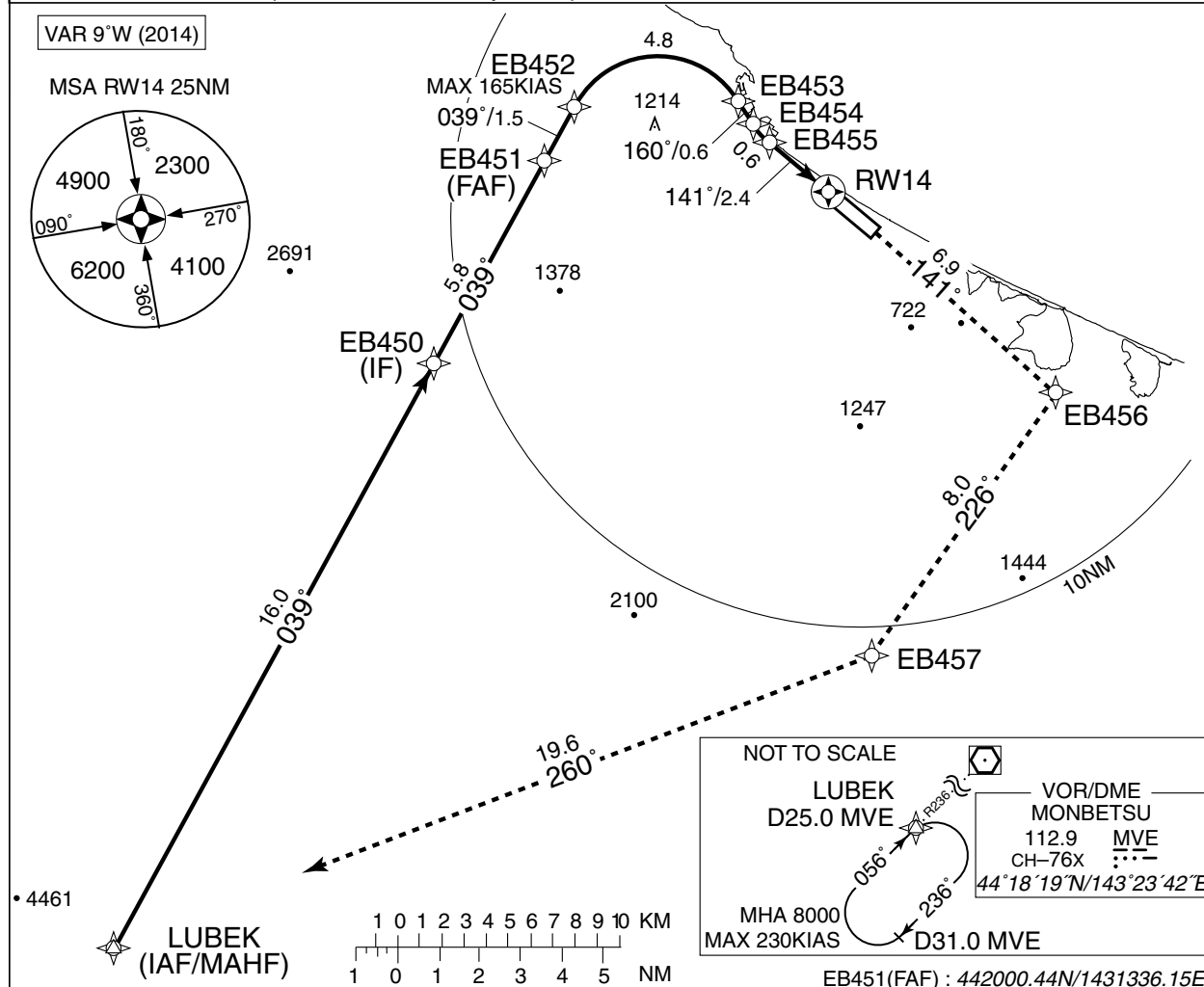
INSTRUMENT APPROACH CHART

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RNAV(RNP) RWY14

| | | | |
|--|-----------------------|---------------------------|----------|
| SAPPORO CONTROL 127.5 – 246.1 134.25 – 260.4 | GNSS and RF required. | MONBETSU REMOTE 118.15 | NO RADAR |
|--|-----------------------|---------------------------|----------|

For uncompensated Baro-VNAV systems, procedure not authorized below -20°C / above 45°C



Missed APCH climb gradient MNM 5.0%

| CAT | RNP 0.10 | | RNP 0.30 | |
|-----|-----------|------|-----------|------|
| | DA(H) | CMV | DA(H) | CMV |
| A | — | — | — | — |
| B | — | — | — | — |
| C | 384 (304) | 1400 | 653 (573) | 1600 |
| D | — | 1600 | — | 1800 |

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

RNP AR

Special Authorization Required

INSTRUMENT APPROACH CHART

RJEB / MONBETSU

RNAV(RNP) RWY14

RNAV(RNP) RWY14Coding 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 | LUBEK | — | — | -9.2 | — | — | +8000 | — | — | — |
| 002 | TF | EB450 | — | 039 (030.0) | -9.2 | 16.0 | — | +4200 | — | — | 1.0 |
| 003 | TF | EB451 | — | 039 (030.1) | -9.2 | 5.8 | — | 3300 | — | — | 1.0 |
| 004 | TF | EB452 | — | 039 (030.2) | -9.2 | 1.5 | — | 2836 | -165 | -3.00 | 0.10 0.30 |
| 005 | RF Center: EBRF1 r=2.30NM | EB453 | — | — | -9.2 | 4.8 | R | 1303 | — | -3.00 | 0.10 0.30 |
| 006 | TF | EB454 | — | 160 (150.4) | -9.2 | 0.6 | — | 1112 | — | -3.00 | 0.10 0.30 |
| 007 | RF Center: EBRF2 r=2.01NM | EB455 | — | — | -9.2 | 0.6 | L | 906 | — | -3.00 | 0.10 0.30 |
| 008 | TF | RW14 | Y | 141 (132.0) | -9.2 | 2.4 | — | 130 | — | -3.00/50 | 0.10 0.30 |
| 009 | TF | EB456 | — | 141 (132.0) | -9.2 | 6.9 | — | — | — | — | 1.0 |
| 010 | TF | EB457 | — | 226 (216.9) | -9.2 | 8.0 | — | — | — | — | 1.0 |
| 011 | TF | LUBEK | — | 260 (251.0) | -9.2 | 19.6 | — | 8000 | — | — | 1.0 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|------------------------|--------------------------|------------------------|
| LUBEK | 440108.77N/1425822.82E | EBRF1 | 442006.33N/1431723.55E |
| EB450 | 441459.20N/1430931.88E | EBRF2 | 442143.27N/1432301.39E |
| EB451 | 442000.44N/1431336.15E | | |
| EB452 | 442115.89N/1431437.46E | | |
| EB453 | 442114.78N/1432010.52E | | |
| EB454 | 442043.51N/1432035.39E | | |
| EB455 | 442013.50N/1432109.15E | | |
| RW14 | 441835.73N/1432340.93E | | |
| EB456 | 441358.25N/1433050.46E | | |
| EB457 | 440734.71N/1432409.46E | | |

INSTRUMENT APPROACH CHART

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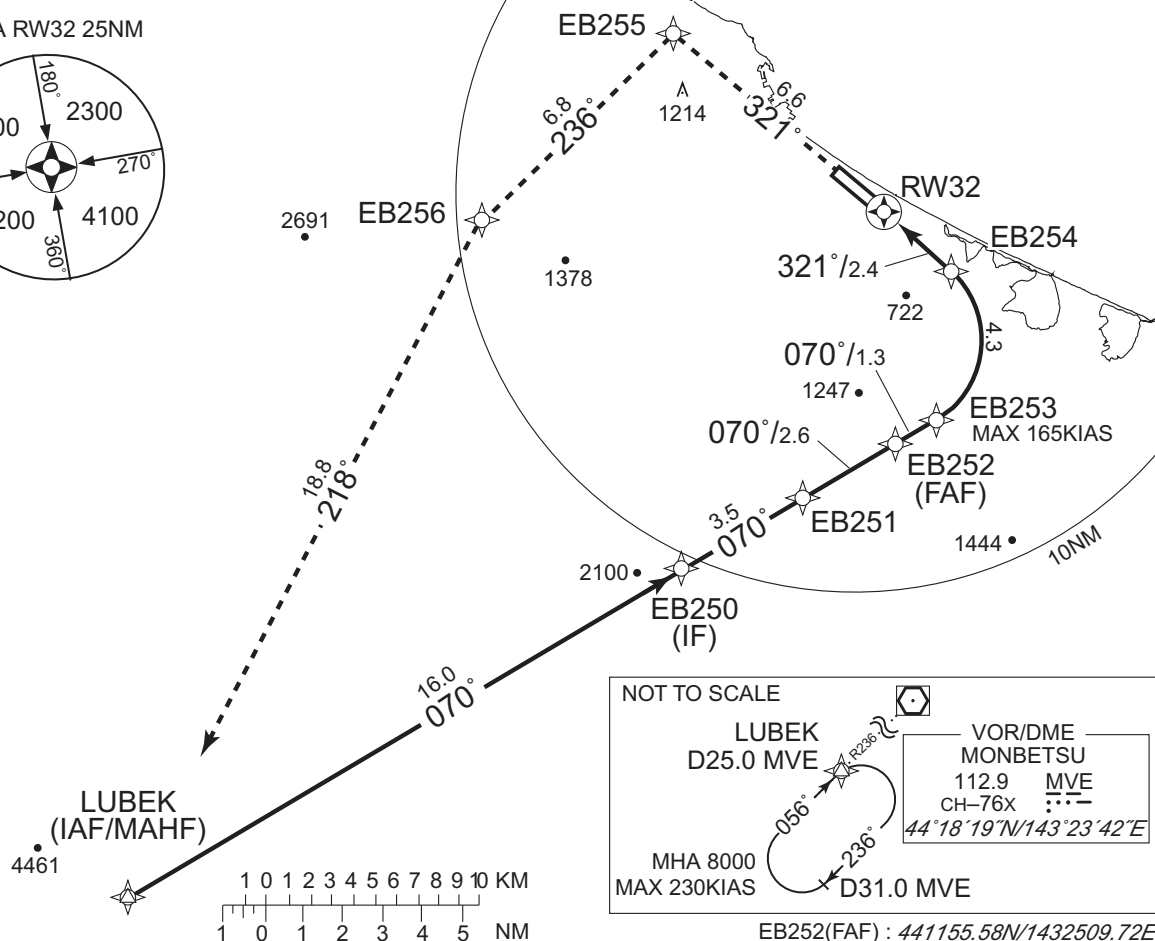
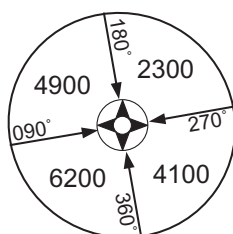
RNAV(RNP) RWY32

| | | | |
|--|-----------------------|---------------------------|----------|
| SAPPORO CONTROL 127.5 – 246.1 134.25 – 260.4 | GNSS and RF required. | MONBETSU REMOTE 118.15 | NO RADAR |
|--|-----------------------|---------------------------|----------|

For uncompensated Baro-VNAV systems, procedure not authorized below -20°C / above 45°C

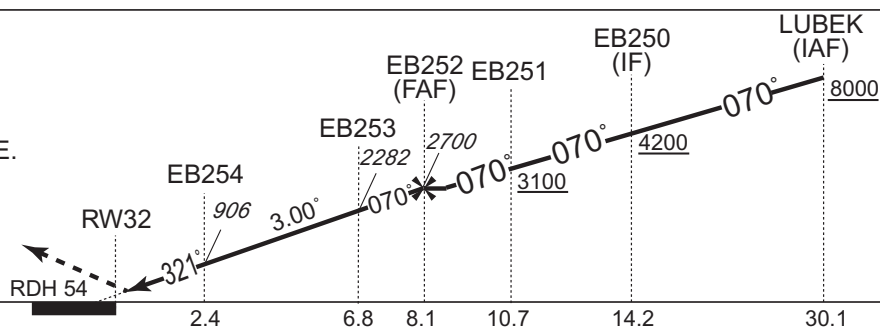
VAR 9°W (2014)

MSA RW32 25NM



MISSED APPROACH

Climb to 8000FT, to EB255,
to EB256, to LUBEK and hold.
Contact MONBETSU REMOTE.



Missed APCH climb gradient MNM 4.0%

| MINIMA | | THR elev. 72 | | AD elev. 58 | |
|--------|-----------|--------------|-----------|-------------|--|
| CAT | RNP 0.14 | | RNP 0.30 | | |
| | DA(H) | RVR/CMV | DA(H) | RVR/CMV | |
| A | — | — | — | — | |
| B | — | — | — | — | |
| C | 372 (300) | 1000 | 606 (534) | 1200 | |
| D | | 1400 | | 1600 | |

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

RNP AR

Special Authorization Required

INSTRUMENT APPROACH CHART

RJEB / MONBETSU

RNAV(RNP) RWY32

RNAV(RNP) RWY32Coding 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 | LUBEK | — | — | -9.2 | — | — | +8000 | — | — | — |
| 002 | TF | EB250 | — | 070 (060.6) | -9.2 | 16.0 | — | +4200 | — | — | 1.0 |
| 003 | TF | EB251 | — | 070 (060.8) | -9.2 | 3.5 | — | +3100 | — | — | 1.0 |
| 004 | TF | EB252 | — | 070 (060.8) | -9.2 | 2.6 | — | 2700 | — | — | 1.0 |
| 005 | TF | EB253 | — | 070 (060.9) | -9.2 | 1.3 | — | 2282 | -165 | -3.00 | 0.14 0.30 |
| 006 | RF Center: EBRF3 r=2.27NM | EB254 | — | — | -9.2 | 4.3 | L | 906 | — | -3.00 | 0.14 0.30 |
| 007 | TF | RW32 | Y | 321 (312.1) | -9.2 | 2.4 | — | 126 | — | -3.00/54 | 0.14 0.30 |
| 008 | TF | EB255 | — | 321 (312.0) | -9.2 | 6.6 | — | — | — | — | 1.0 |
| 009 | TF | EB256 | — | 236 (226.8) | -9.2 | 6.8 | — | — | — | — | 1.0 |
| 010 | TF | LUBEK | — | 218 (208.8) | -9.2 | 18.8 | — | 8000 | — | — | 1.0 |

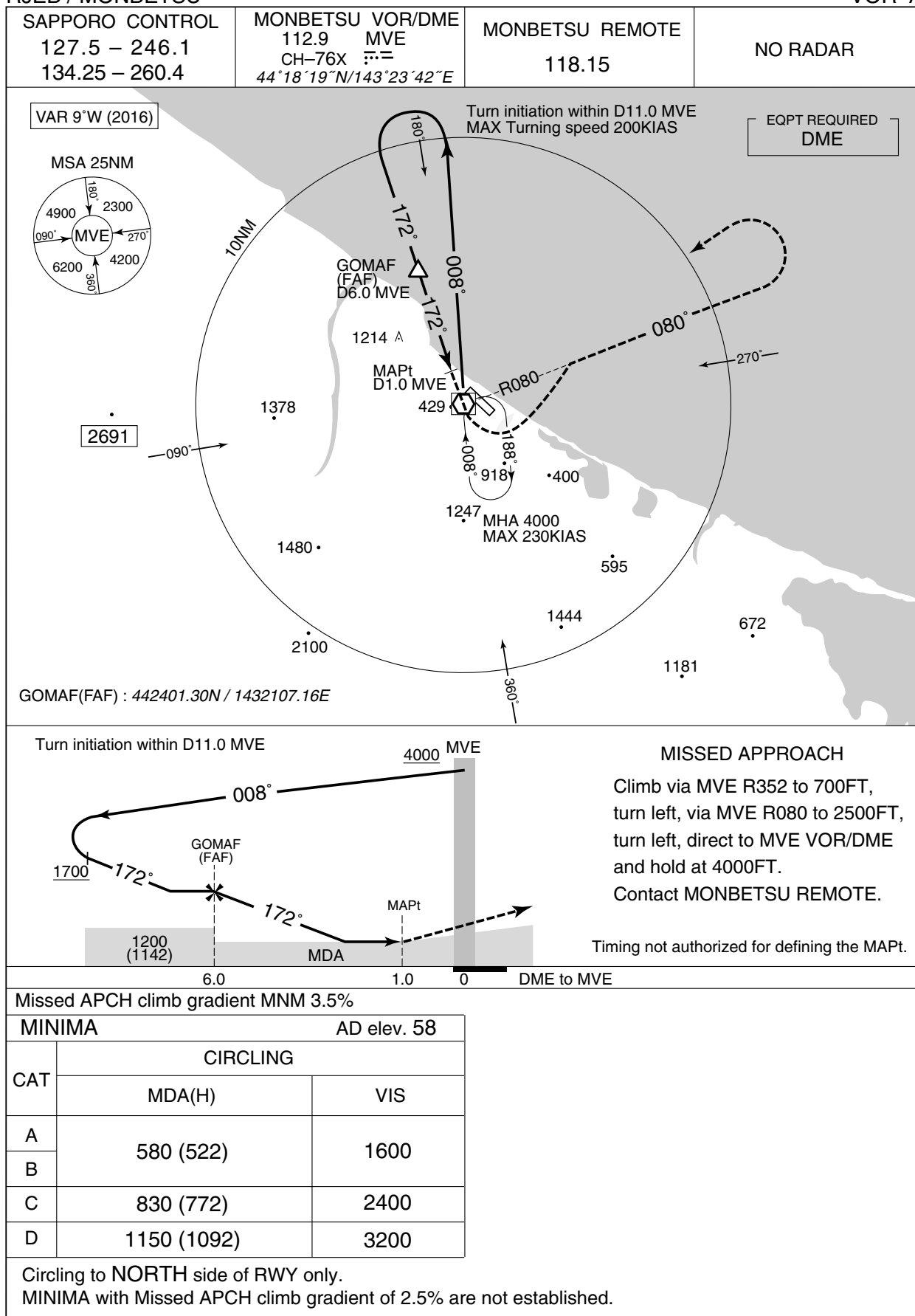
Waypoint Coordinates

| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|------------------------|--------------------------|------------------------|
| LUBEK | 440108.77N/1425822.82E | EBRF3 | 441432.89N/1432513.59E |
| EB250 | 440857.66N/1431745.13E | | |
| EB251 | 441039.77N/1432200.05E | | |
| EB252 | 441155.58N/1432509.72E | | |
| EB253 | 441233.80N/1432645.48E | | |
| EB254 | 441614.19N/1432720.26E | | |
| RW32 | 441752.44N/1432448.06E | | |
| EB255 | 442218.71N/1431754.45E | | |
| EB256 | 441739.47N/1431100.00E | | |

INSTRUMENT APPROACH CHART

RJEB / MONBETSU

VOR A



RJEB / MONBETSU

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 |
|---------------------|---------------------|----------------------------------|
| 沙留 Saru | 317°T / 11.3NM | 岬 Cape |
| 渚滑 Shokotsu | 323°T / 5.8NM | 渚滑川河口 Mouth of Shokotsu river |
| コムケ湖 Komukeko | 123°T / 5.5NM | 湖 Lake |
| 上渚滑 Kamishokotsu | 242°T / 7.3NM | 橋 Bridge |
| 竜宮台 Ryuguudai | 114°T / 18.0NM | 灯台 Lighthouse |
| 鴻之舞 Kounomai | 193°T / 10.6NM | 発電所 Power Station |
| 遠軽 Engaru | 161°T / 15.5NM | 駅 JR Station |

RJEB / MONBETSU

Minimum Vectoring Altitude CHART

