

## RJEB / MONBETSU

## AD CHART



**INTENTIONALLY LEFT BLANK**

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

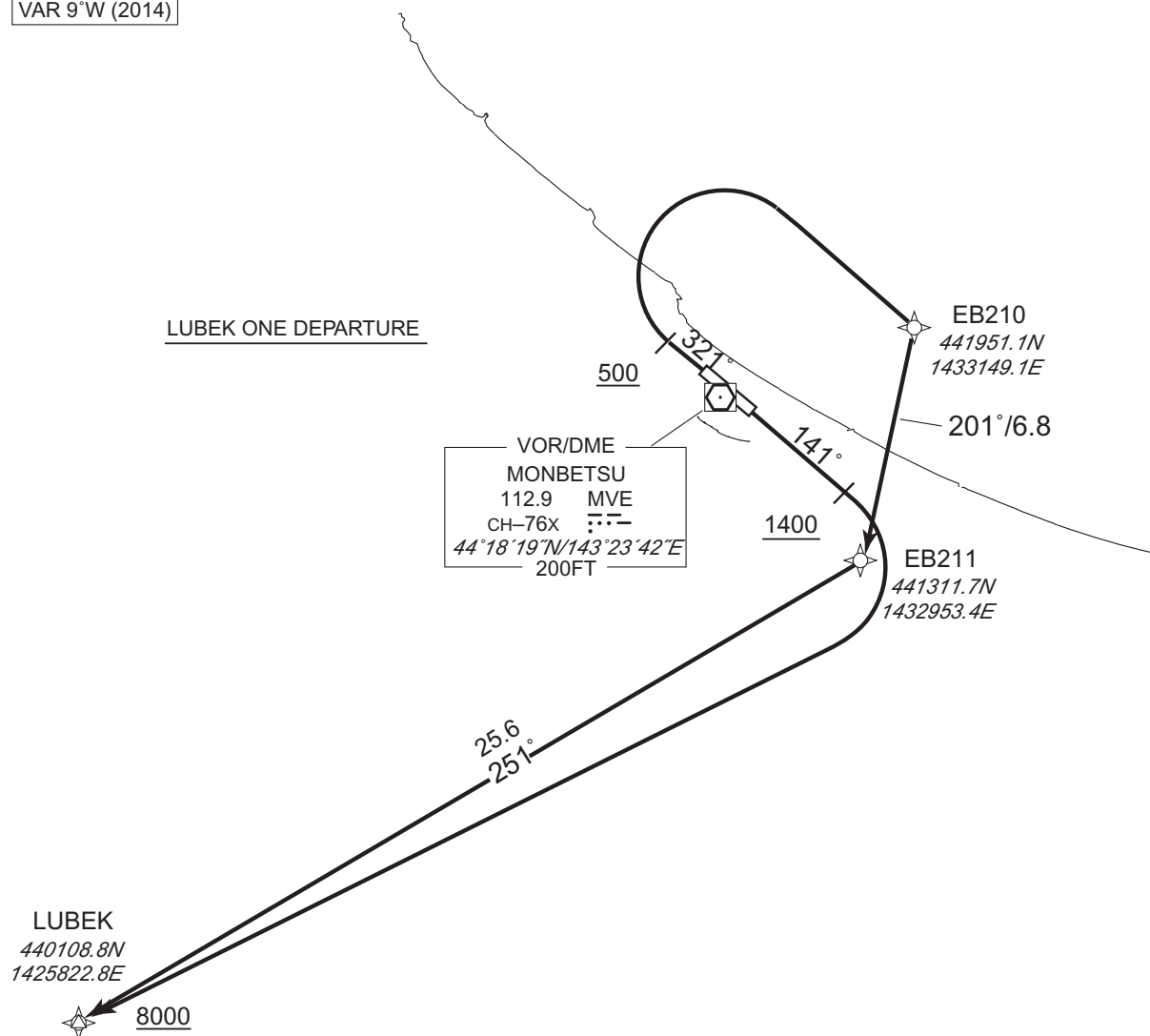
LUBEK ONE DEPARTURE

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

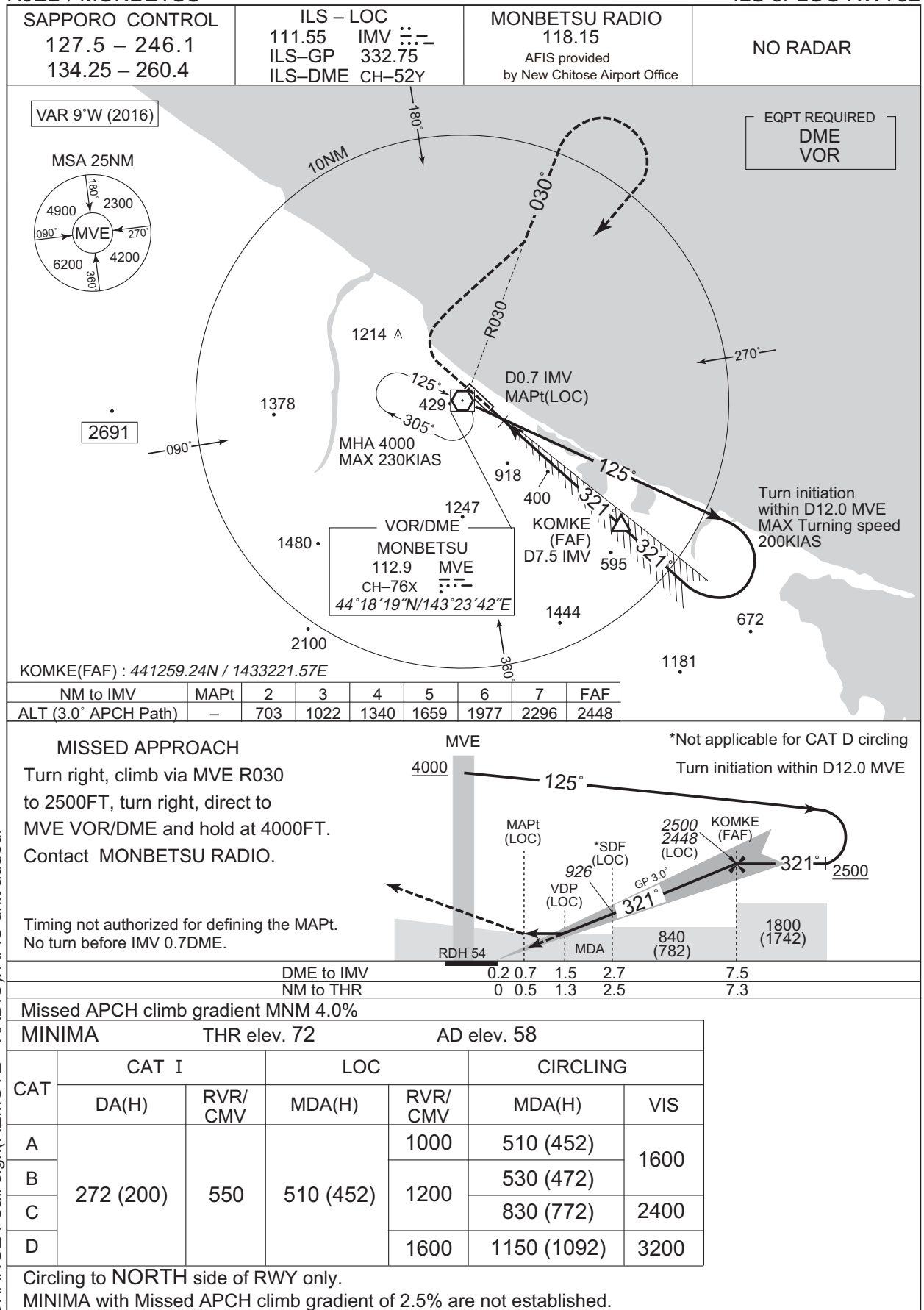
## RWY32

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

## INSTRUMENT APPROACH CHART

RJEB / MONBETSU

ILS or LOC RWY32



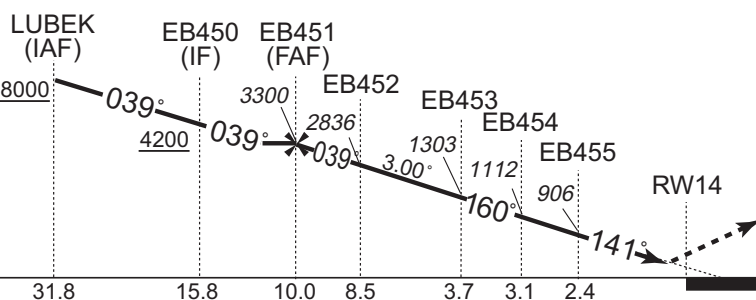
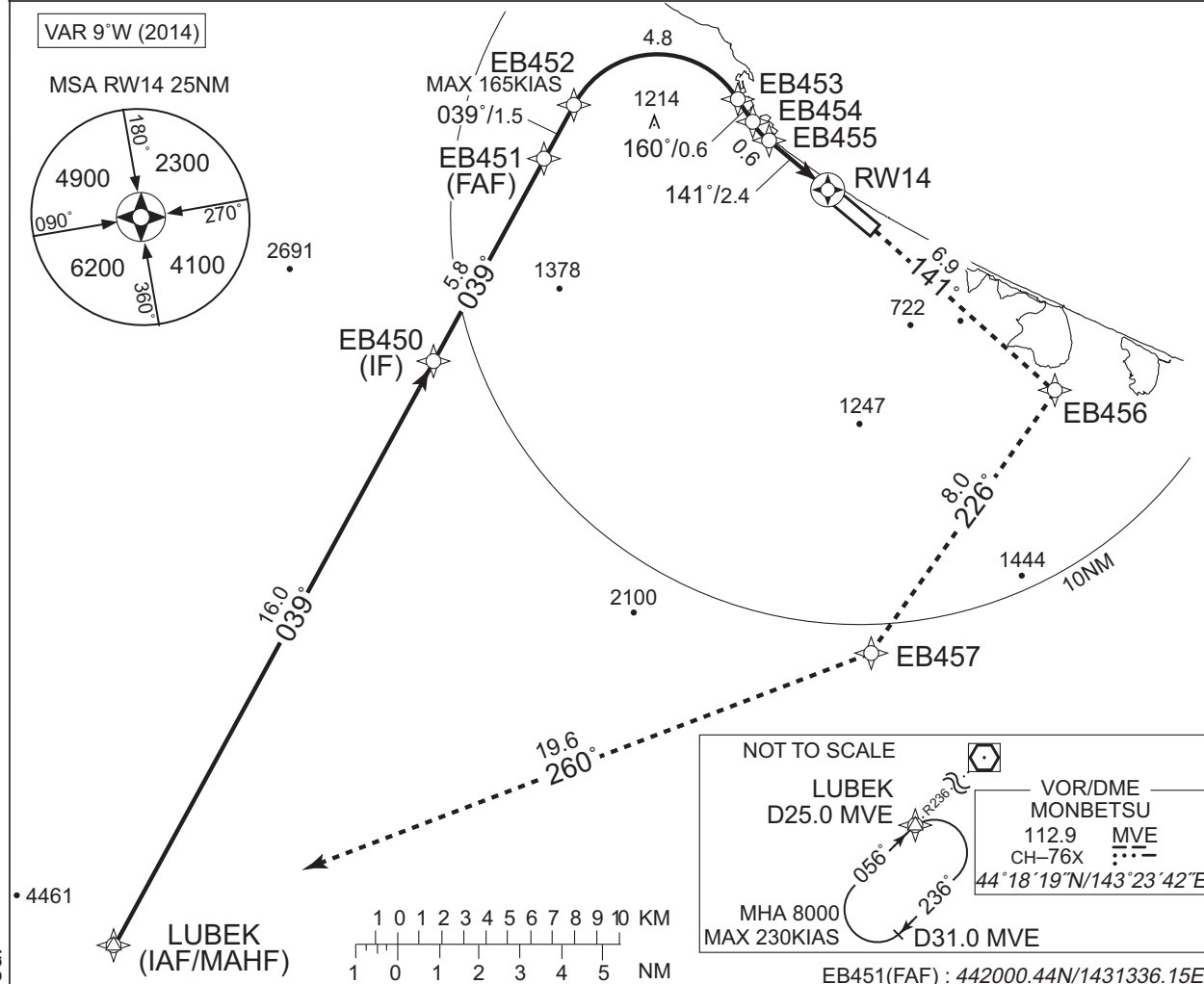
## INSTRUMENT APPROACH CHART

RJEB / MONBETSU

RNAV(RNP) RWY14

|  |                       |  |          |
|--|-----------------------|--|----------|
| SAPPORO CONTROL<br>127.5 – 246.1<br>134.25 – 260.4 | GNSS and RF required. | MONBETSU RADIO<br>118.15<br>AFIS provided<br>by New Chitose Airport Office | 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

CHANGE : Call sign(REMOTE→RADIO). AFIS unit added.

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

RJEB / MONBETSU

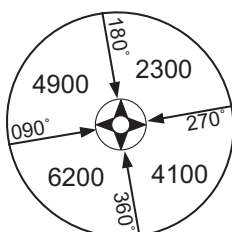
RNAV(RNP) RWY32

|  |                       |  |          |
|--|-----------------------|--|----------|
| SAPPORO CONTROL<br>127.5 – 246.1<br>134.25 – 260.4 | GNSS and RF required. | MONBETSU RADIO<br>118.15<br>AFIS provided<br>by New Chitose Airport Office | NO RADAR |
|--|-----------------------|--|----------|

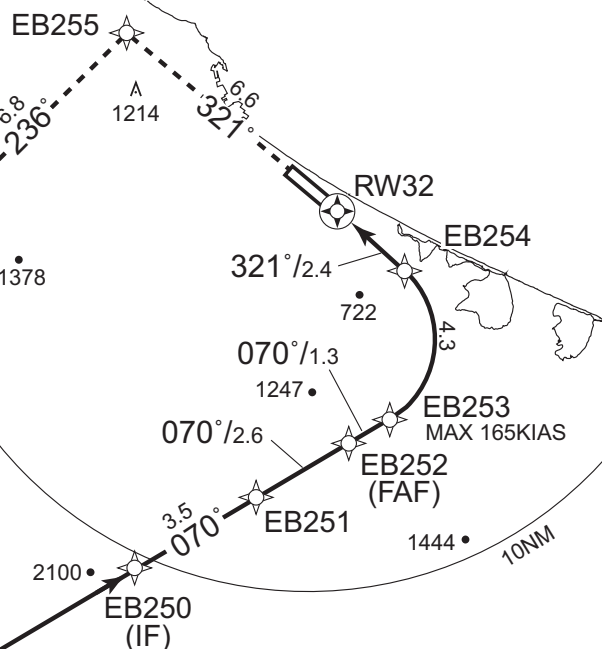
For uncompensated Baro-VNAV systems, procedure not authorized below -20°C / above 45°C

VAR 9°W (2014)

MSA RW32 25NM

LUBEK  
(IAF/MAHF)

4461



NOT TO SCALE

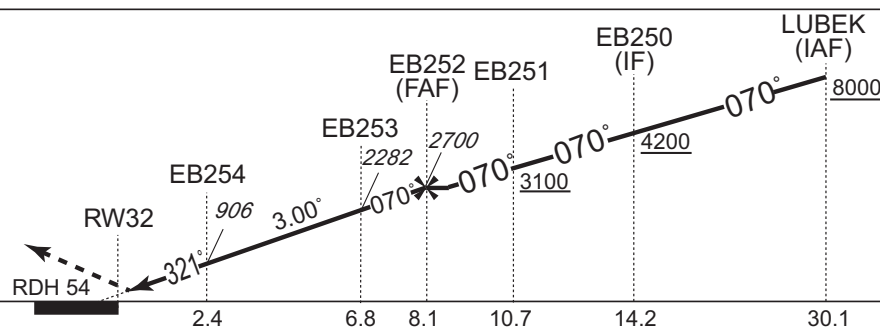
LUBEK  
D25.0 MVEMHA 8000  
MAX 230KIAS

VOR/DME  
MONBETSU  
112.9 MVE  
CH-76X  
44°18'19"N/143°23'42"E

EB252(FAF) : 441155.58N/1432509.72E

## MISSED APPROACH

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



Missed APCH climb gradient MNM 4.0%

| 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

CHANGE : Call sign(REMOTE→RADIO). AFIS unit added.

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

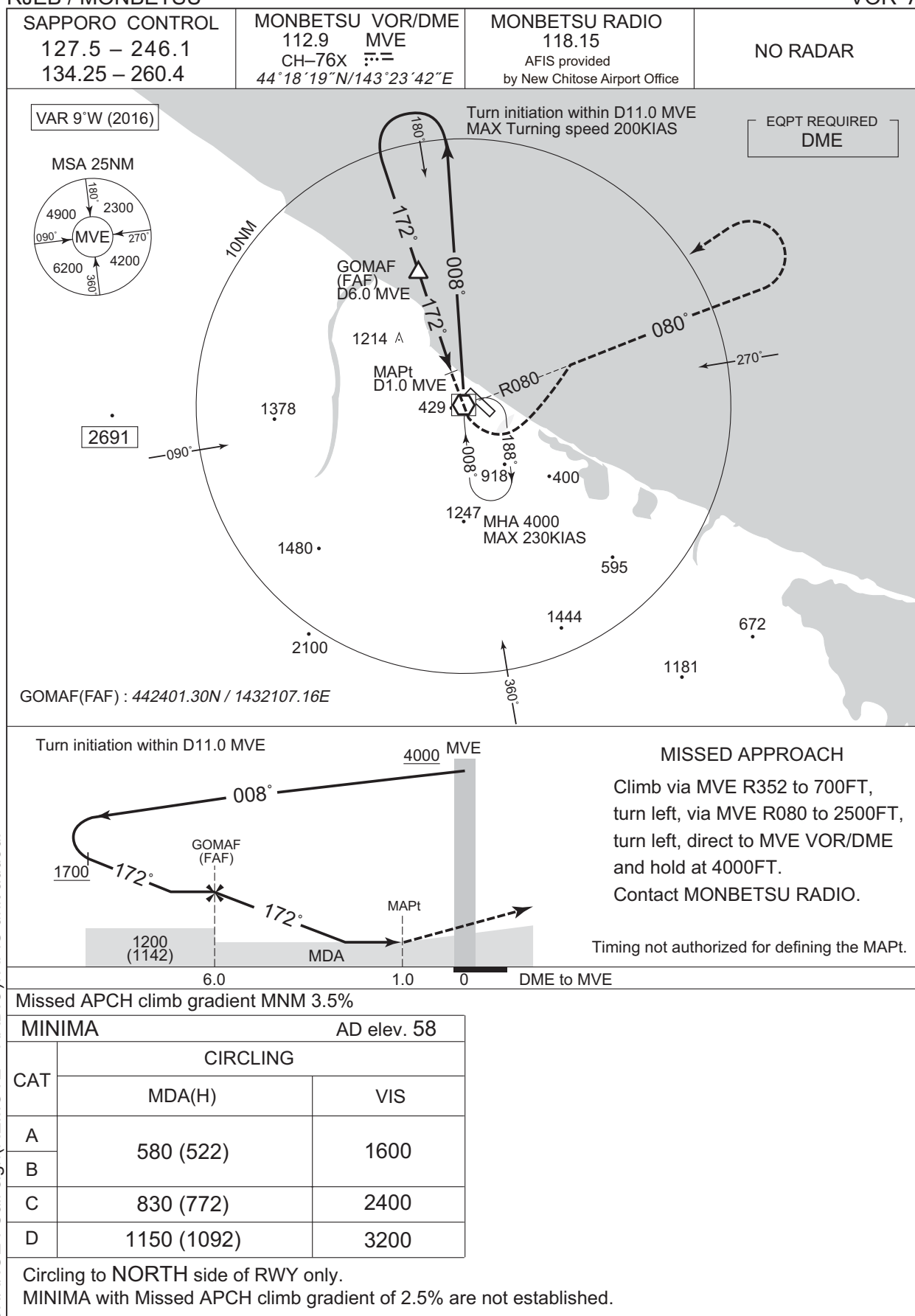
Waypoint Coordinates

| 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



CHANGE : Call sign(REMOTE→RADIO). AFIS unit added.

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 : Call sign(REMOTE→RADIO).

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

RJEB / MONBETSU

Minimum Vectoring Altitude CHART

