

## AD CHART



## 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.

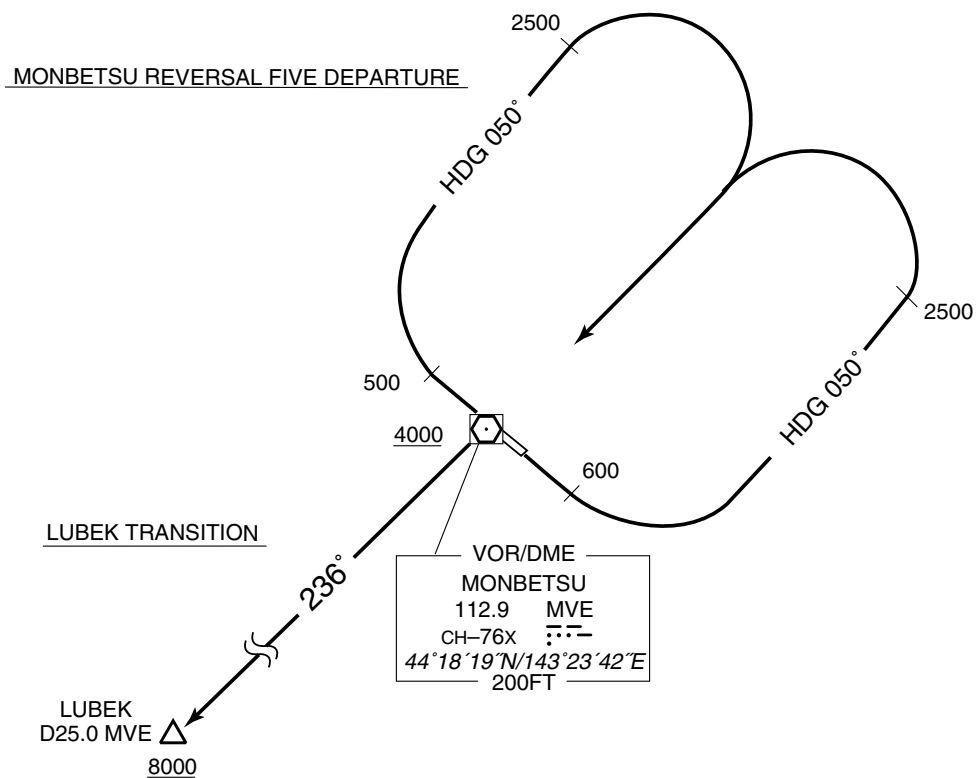
RWY32: 4.3% climb gradient required up to 800FT.

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.

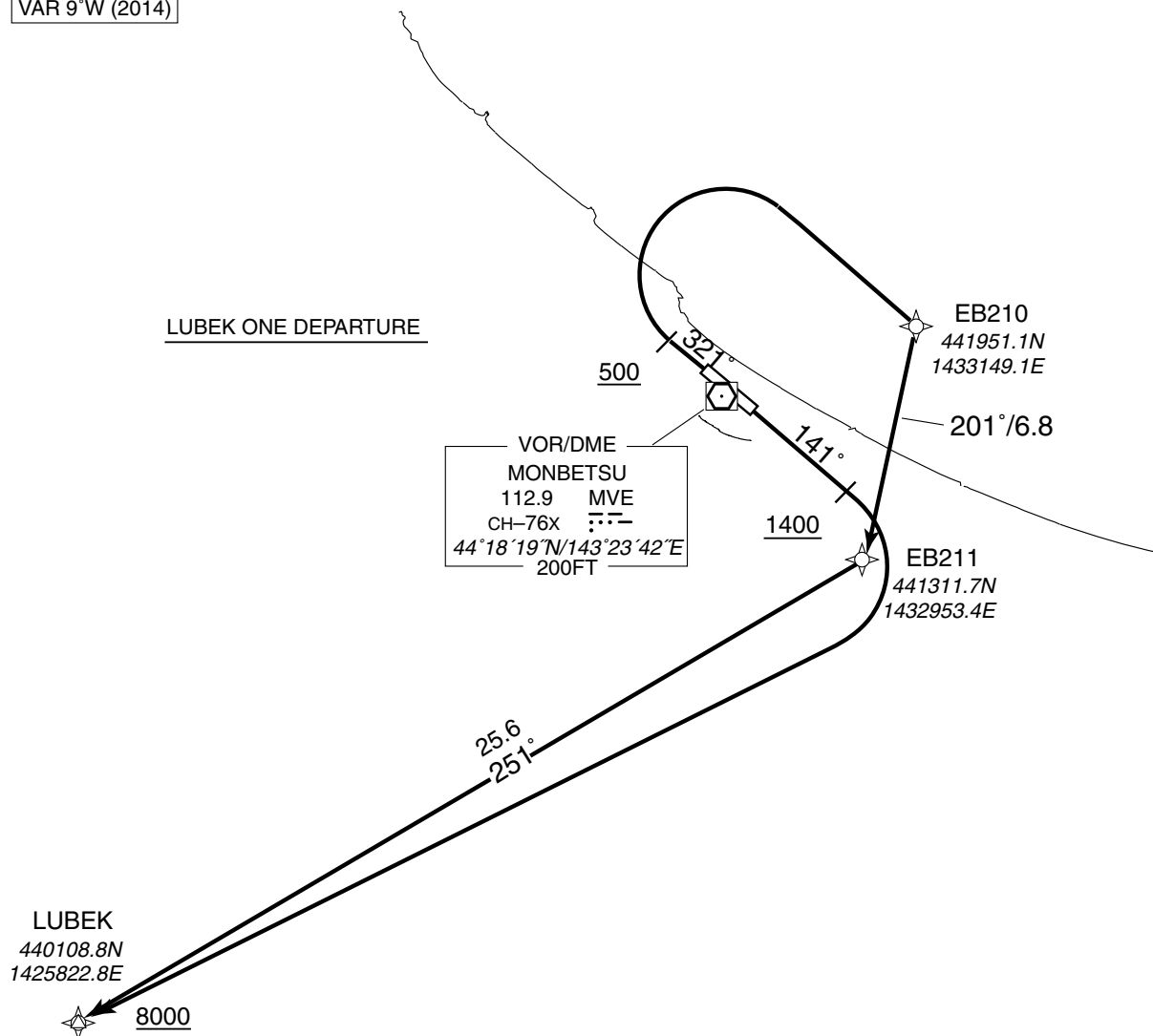


## RJEB / MONBETSU

➔ RNAV SID

## Basic RNP1

VAR 9°W (2014)



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               |

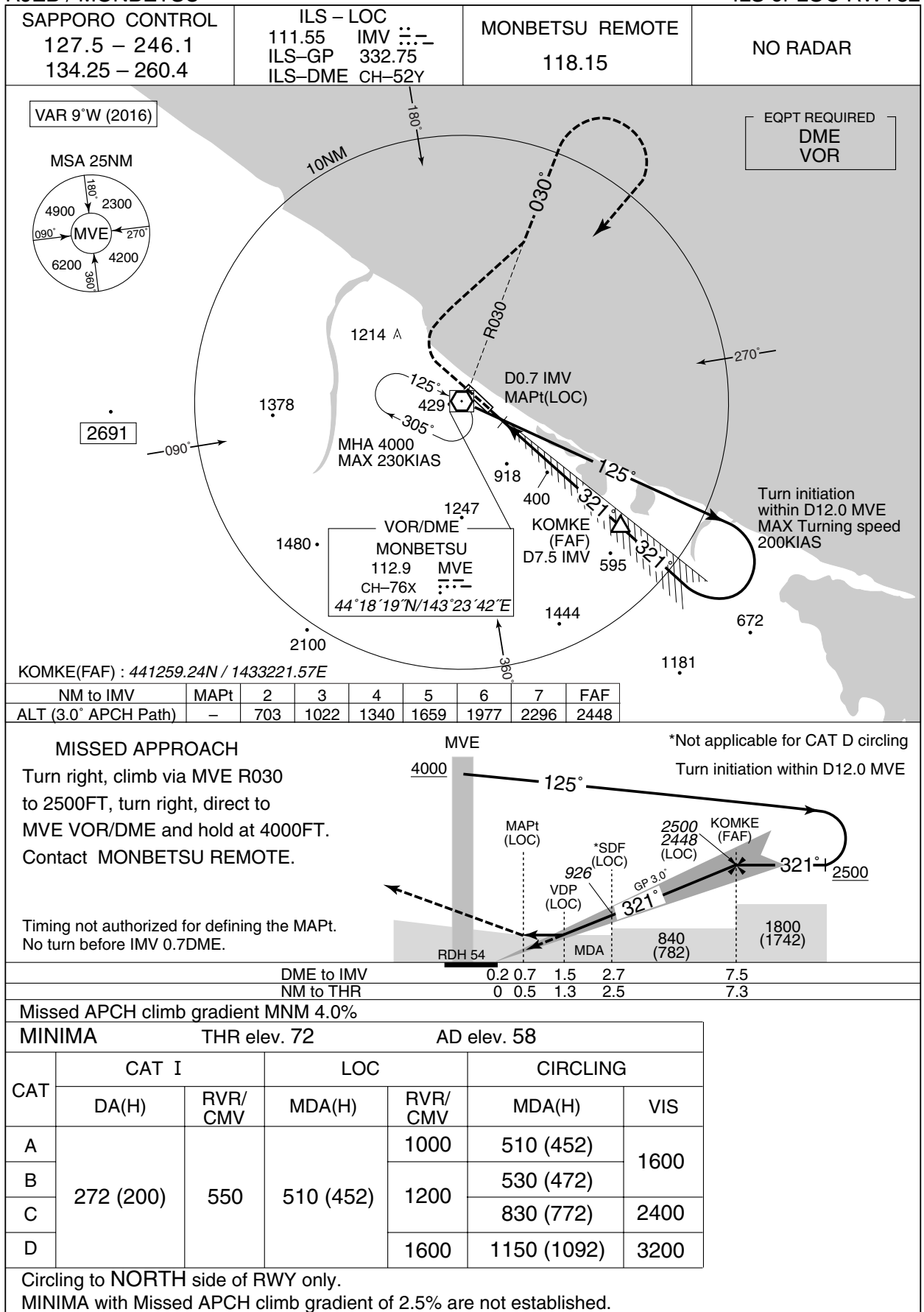
## RWY32

| 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



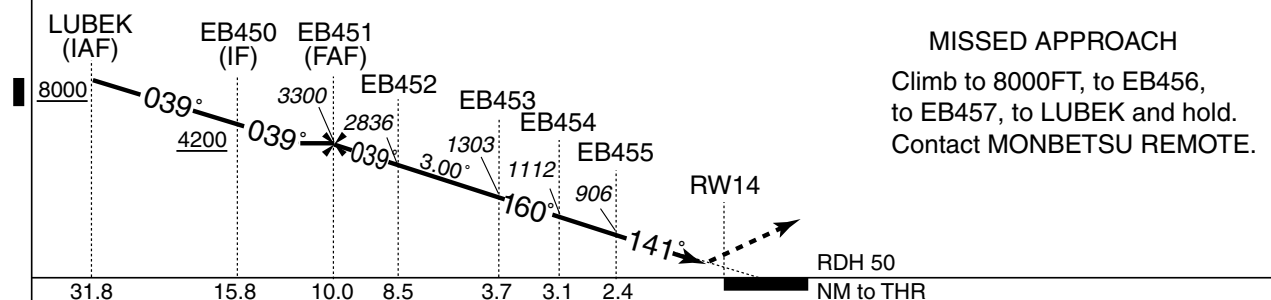
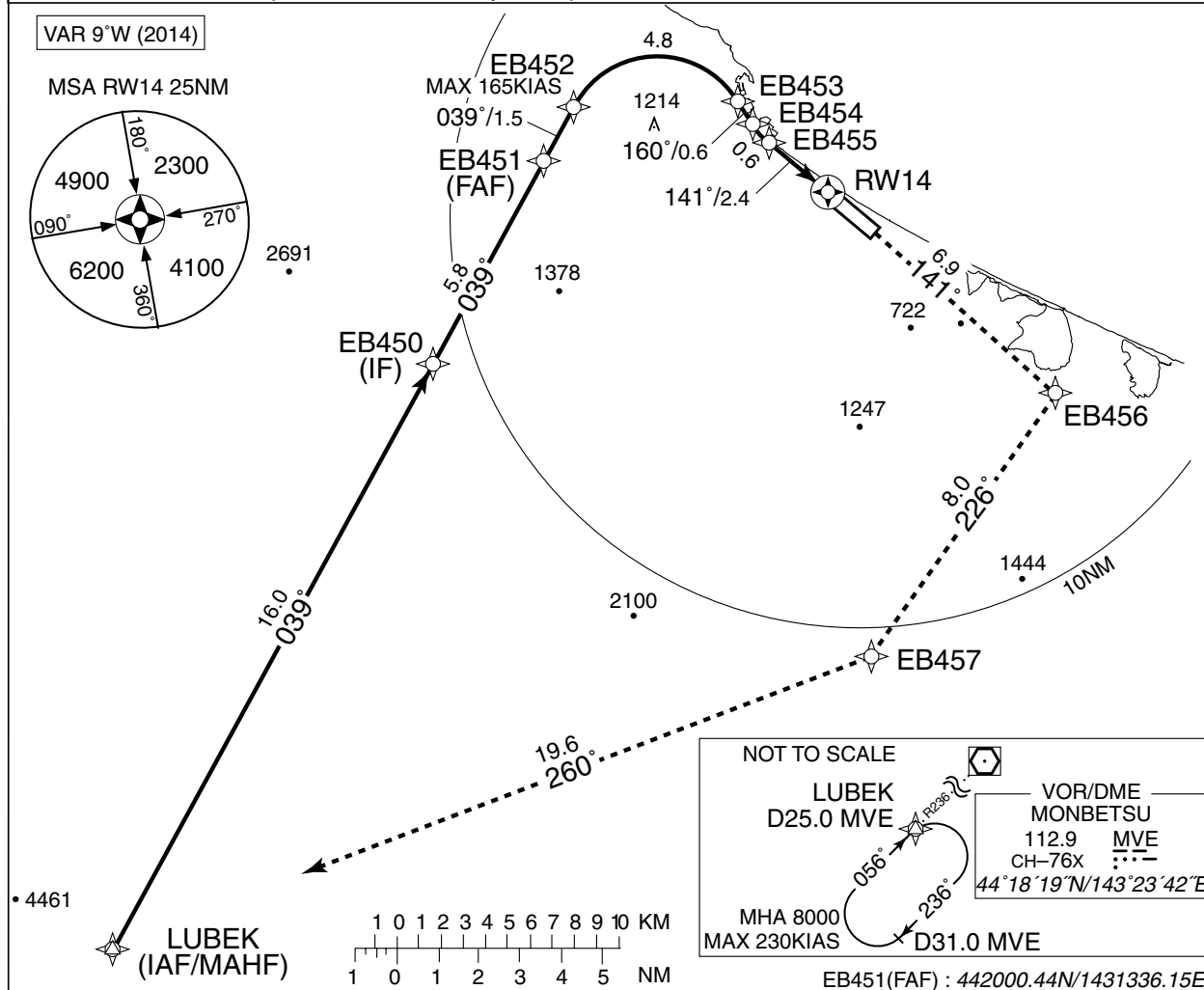
## INSTRUMENT APPROACH CHART

RJEB / MONBETSU

RNAV(RNP) RWY14

|  |                       |                           |          |
|--|-----------------------|---------------------------|----------|
| SAPPORO CONTROL<br>127.5 – 246.1<br>134.25 – 260.4 | GNSS and RF required. | MONBETSU REMOTE<br>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<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

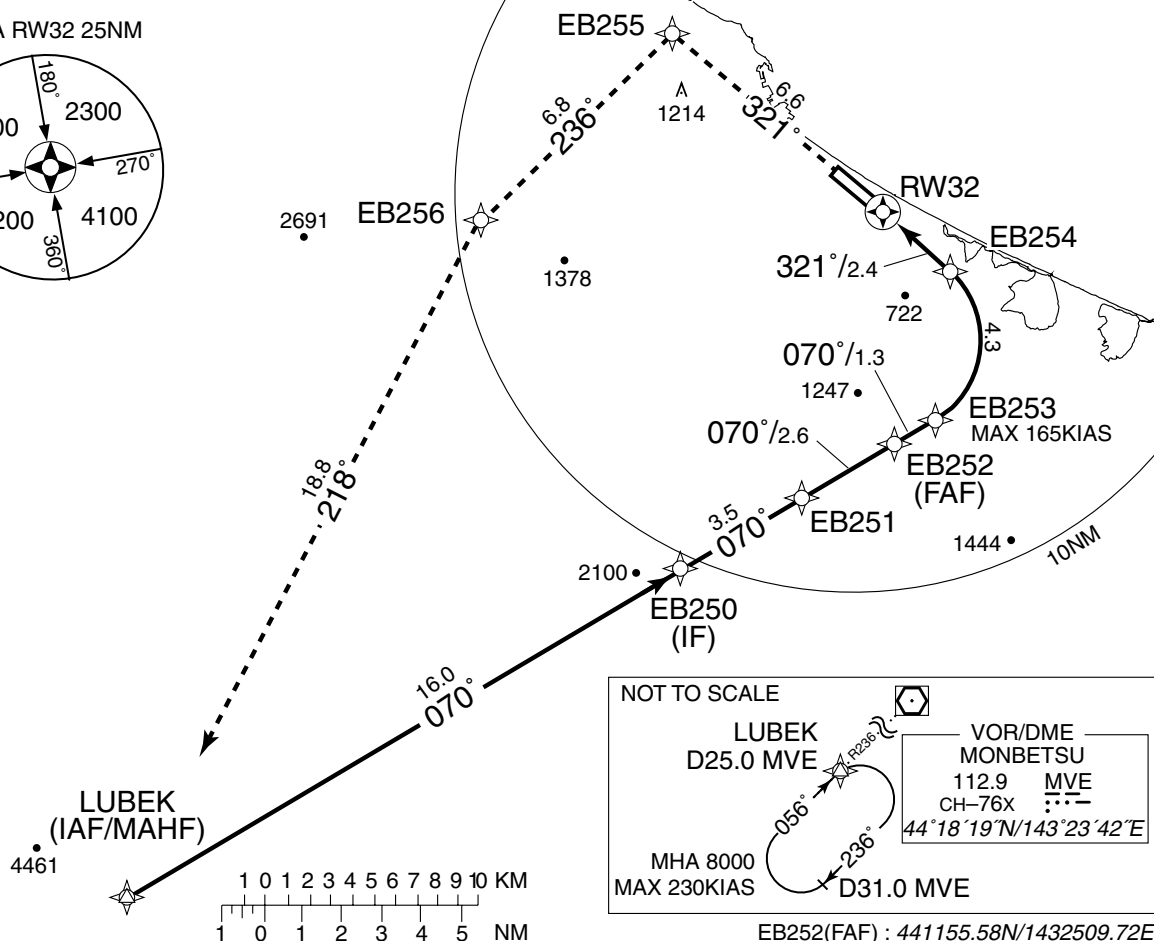
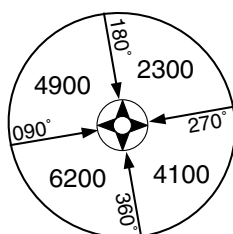
➔ RNAV(RNP) RWY32

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

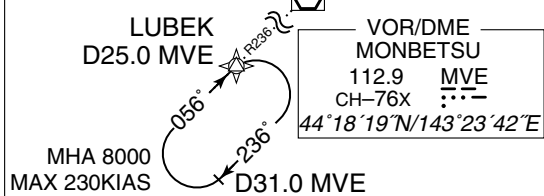
For uncompensated Baro-VNAV systems, procedure not authorized below -20°C / above 45°C

VAR 9°W (2014)

MSA RW32 25NM



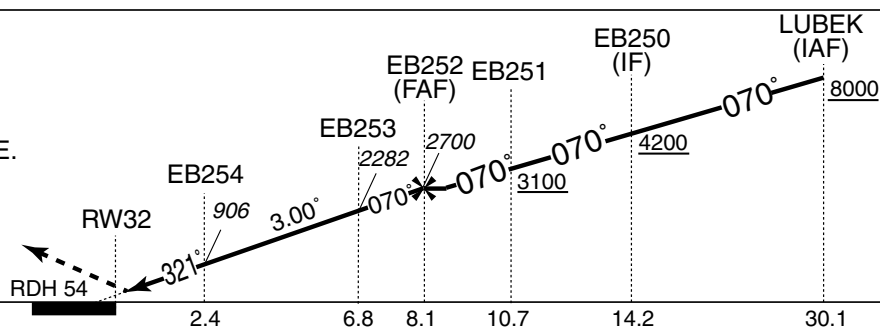
NOT TO SCALE



EB252(FAF) : 441155.58N/1432509.72E

## MISSED APPROACH

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



NM to THR

2.4

6.8

8.1

10.7

14.2

30.1

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



## 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

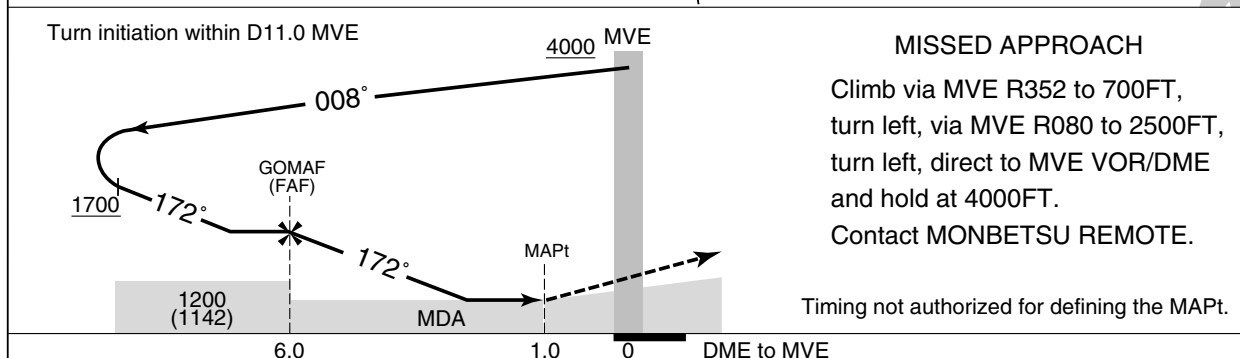
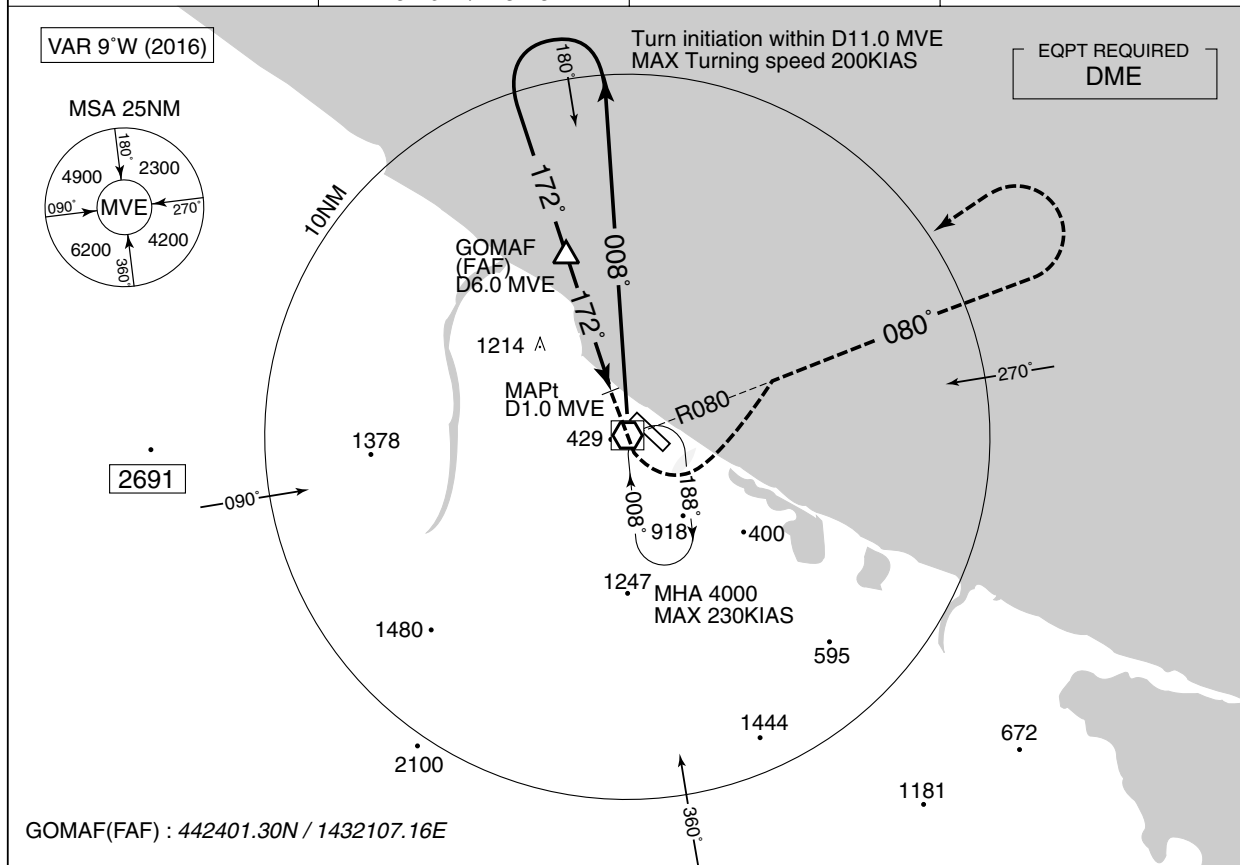
| Waypoint Identifier | Coordinates            | RF Arc Center Identifier | Coordinates            |
|---------------------|------------------------|--------------------------|------------------------|
| LUBEK               | 440108.77N/1425822.82E | EBRF3                    | 441432.89N/1432513.59E |
| 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

|  |   |                           |          |
|--|---|---------------------------|----------|
| SAPPORO CONTROL<br>127.5 – 246.1<br>134.25 – 260.4 | MONBETSU VOR/DME<br>112.9 MVE<br>CH-76X<br>44°18'19"N/143°23'42"E | MONBETSU REMOTE<br>118.15 | NO RADAR |
|--|---|---------------------------|----------|



Missed APCH climb gradient MNM 3.5%

| MINIMA |             | AD elev. 58 |
|--------|-------------|-------------|
| CAT    | CIRCLING    |             |
|        | MDA(H)      | VIS         |
| A      | 580 (522)   | 1600        |
| B      |             |             |
| C      | 830 (772)   | 2400        |
| D      | 1150 (1092) | 3200        |

Circling to NORTH side of RWY only.

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

RJEB / MONBETSU

Visual REP



| Call sign           | BRG / DIST from ARP | Remarks                          |
|---------------------|---------------------|----------------------------------|
| 渚滑<br>Shokotsu      | 320°/ 5.5NM         | 渚滑川河口<br>Mouth of Shokotsu river |
| 上渚滑<br>Kamishokotsu | 240°/ 7.0NM         | 橋<br>Bridge                      |
| コムケ湖<br>Komukeko    | 122°/ 5.5NM         | 湖<br>Lake                        |
| 竜宮台<br>Ryuguudai    | 114°/18.7NM         | 灯台<br>Light house                |
| 遠軽<br>Engaru        | 160°/15.6NM         | 駅<br>JR Station                  |
| 鴻之舞<br>Kounomai     | 192°/11.0NM         | 発電所<br>Power Station             |
| 沙留<br>Saru          | 318°/11.0NM         | 岬<br>Cape                        |

RJEB / MONBETSU

Minimum Vectoring Altitude CHART

