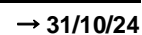


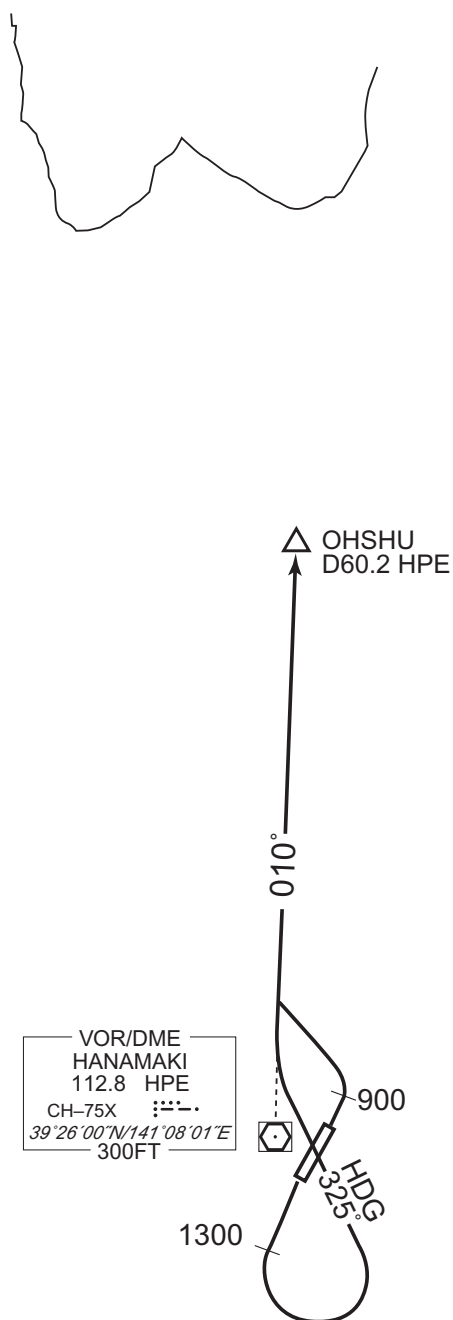
## AD CHART



## RJSI / HANAMAKI

SID

RWY 02 : Climb RWY HDG to 900FT, turn left...  
RWY 20 : Climb RWY HDG to 1300FT, turn left HDG 325°...  
...to intercept and proceed via HPE R010 to OHSHU.



CHANGE : PROC course. PROC renamed.

## STANDARD DEPARTURE CHART -INSTRUMENT

RJSI / HANAMAKI

SID

NIIGATA SIX DEPARTURE

RWY 02 : Climb RWY HDG to HPE 3.5 DME, turn right...

RWY 20 : Climb RWY HDG to HPE 3.5 DME, turn left...

...proceed to HPE VOR/DME, via HPE R236 to HPE 50.0DME(GTC 79.6DME),  
via GTC R055 to GTC.Cross HPE VOR/DME at or above 2200 FT, cross HPE R236/50.0DME  
(GTC R055/79.6DME) at or above 12000 FT.

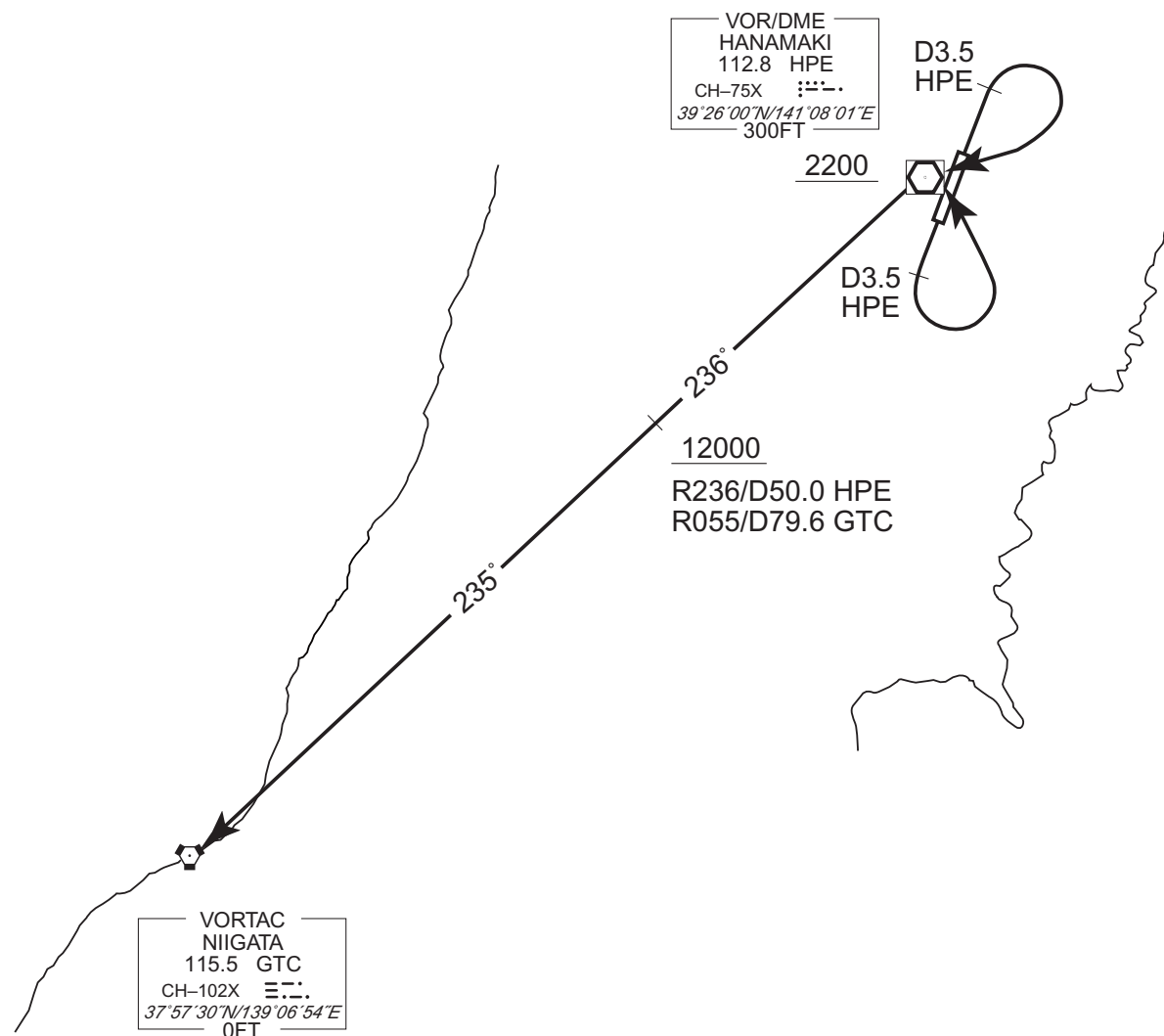
Note RWY02 : 4.5% climb gradient required up to 2400FT.

OBST ALT 1641FT located at 4.1NM 091° FM end of RWY02.

RWY20 : 3.9% climb gradient required up to 1100FT.

OBST ALT 722FT located at 2.8NM 166° FM end of RWY20.

CHANGE : SID renamed. ALT restriction at R236/D50.0 HPE, R055/D79.6 GTC.



STANDARD DEPARTURE CHART -INSTRUMENT

RJSI / HANAMAKI

SID

HANAMAKI REVERSAL THREE DEPARTURE

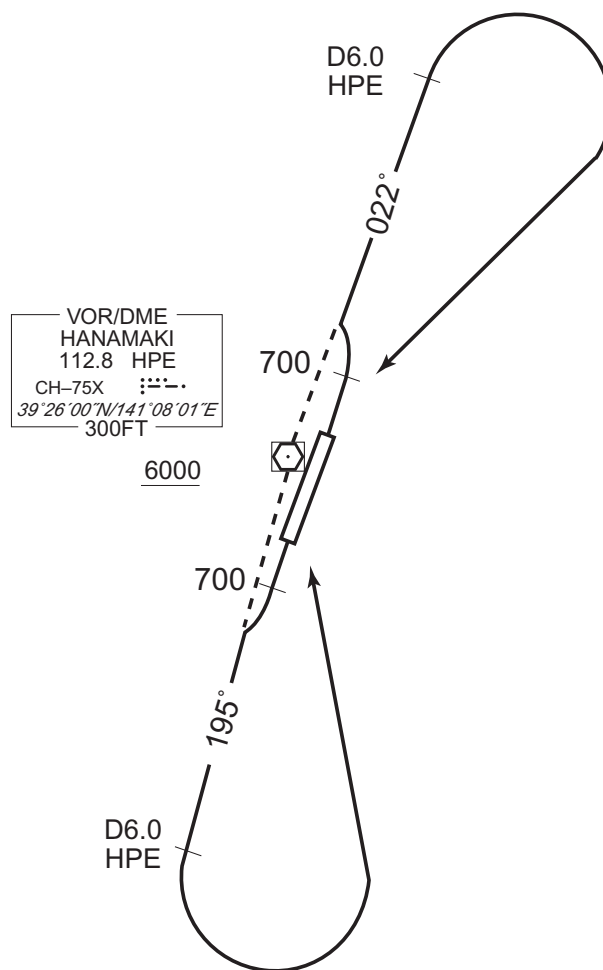
RWY 02 : Climb RWY HDG to 700FT, via HPE R022 to 6.0 DME, turn right...

RWY 20 : Climb RWY HDG to 700FT, via HPE R195 to 6.0 DME, turn left...  
...direct to HPE VOR/DME.

Cross HPE VOR/DME at or above 6000FT.

Note RWY02 : 5.0% climb gradient required up to 3200FT.

OBST ALT 2691FT located at 9.1NM 058° FM end of RWY02.



CHANGE : PROC renamed. PROC course.

STANDARD DEPARTURE CHART -INSTRUMENT

RJSI / HANAMAKI

RNAV SID

SAMBO ONE DEPARTURE

RNP1

Note GNSS required.

VAR 9°W

SAMBO  
401115.9N  
1405701.4E

DASCO  
395109.2N  
1410826.4E

AKARI  
394317.5N  
1410818.3E

SI010  
392659.4N  
1410155.6E

700

1300

019°

199°

025°

009°

345°

21.9

7.9

17.0

RWY02 : Climb on HDG 019° at or above 700FT, direct to AKARI, to DASCO to SAMBO.

RWY20 : Climb on HDG 199° at or above 1300FT, turn right direct to SI010, to AKARI, to DASCO to SAMBO .

Note RWY02 : 4.0% climb gradient required up to 700FT.  
OBST ALT 318FT located at 0.2NM 061° FM end of RWY02.

RWY20 : 4.0% climb gradient required up to 2700FT.  
OBST ALT 3117FT located at 10.7NM 351° FM end of RWY20.

RWY02

| 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              | -                   | -        | 019 (010.7) | -8.7               | -             | -              | +700          | -            | -              | RNP1                     |
| 002           | DF              | AKARI               | -        | -           | -8.7               | -             | -              | -             | -            | -              | RNP1                     |
| 003           | TF              | DASCO               | -        | 009 (000.8) | -8.7               | 7.9           | -              | -             | -            | -              | RNP1                     |
| 004           | TF              | SAMBO               | -        | 345 (336.6) | -8.7               | 21.9          | -              | -             | -            | -              | RNP1                     |

RWY20

| 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              | -                   | -        | 199 (190.7) | -8.7               | -             | -              | +1300         | -            | -              | RNP1                     |
| 002           | DF              | SI010               | -        | -           | -8.7               | -             | R              | -             | -            | -              | RNP1                     |
| 003           | TF              | AKARI               | -        | 025 (016.7) | -8.7               | 17.0          | -              | -             | -            | -              | RNP1                     |
| 004           | TF              | DASCO               | -        | 009 (000.8) | -8.7               | 7.9           | -              | -             | -            | -              | RNP1                     |
| 005           | TF              | SAMBO               | -        | 345 (336.6) | -8.7               | 21.9          | -              | -             | -            | -              | RNP1                     |

STANDARD DEPARTURE CHART -INSTRUMENT

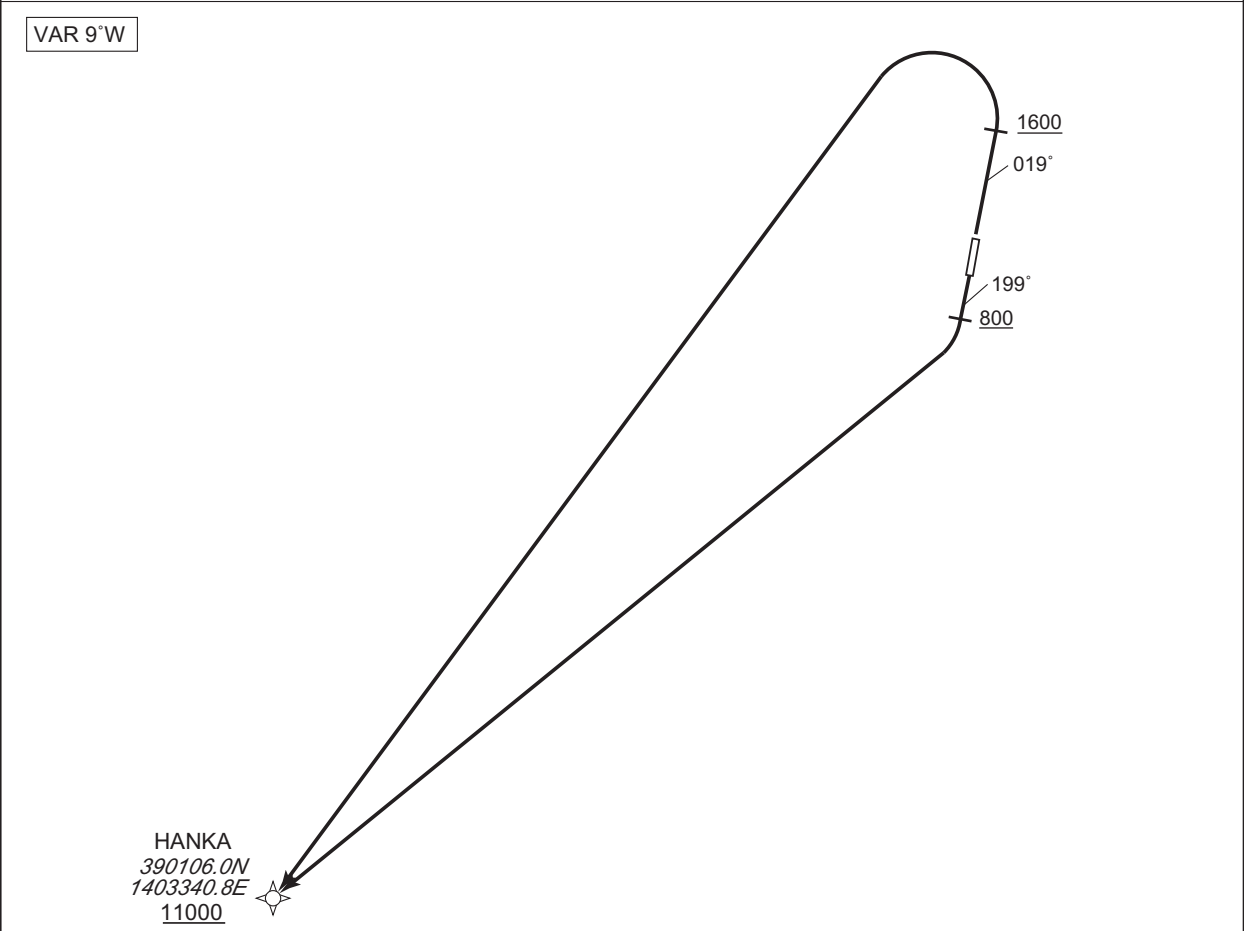
RJSI / HANAMAKI

RNAV SID

HANKA ONE DEPARTURE

RNP1

Note GNSS required



RWY02 : Climb on HDG 019° at or above 1600FT, turn left direct to HANKA, at or above 11000FT.  
RWY20 : Climb on HDG 199° at or above 800FT, turn right direct to HANKA, at or above 11000FT.  
Note RWY02: 5.0% climb gradient required up to 3600FT.  
OBST ALT 1936FT located at 5.5NM 340° FM end of RWY02.  
OBST ALT 3018FT located at 8.2NM 310° FM end of RWY02.  
RWY20: 5.0% climb gradient required up to 5400FT.  
OBST ALT 4593FT located at 18.2NM 227° FM end of RWY20.  
OBST ALT 5151FT located at 20.8NM 232° FM end of RWY20.

CHANGE : Description of VOR/DME:

| RWY02         |                 |                     |          |               |                    |               |                |               |              |                |                          |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 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              | —                   | —        | 019 (010.7)   | -8.7               | —             | —              | +1600         | —            | —              | RNP1                     |
| 002           | DF              | HANKA               | —        | —             | -8.7               | —             | L              | +11000        | —            | —              | RNP1                     |

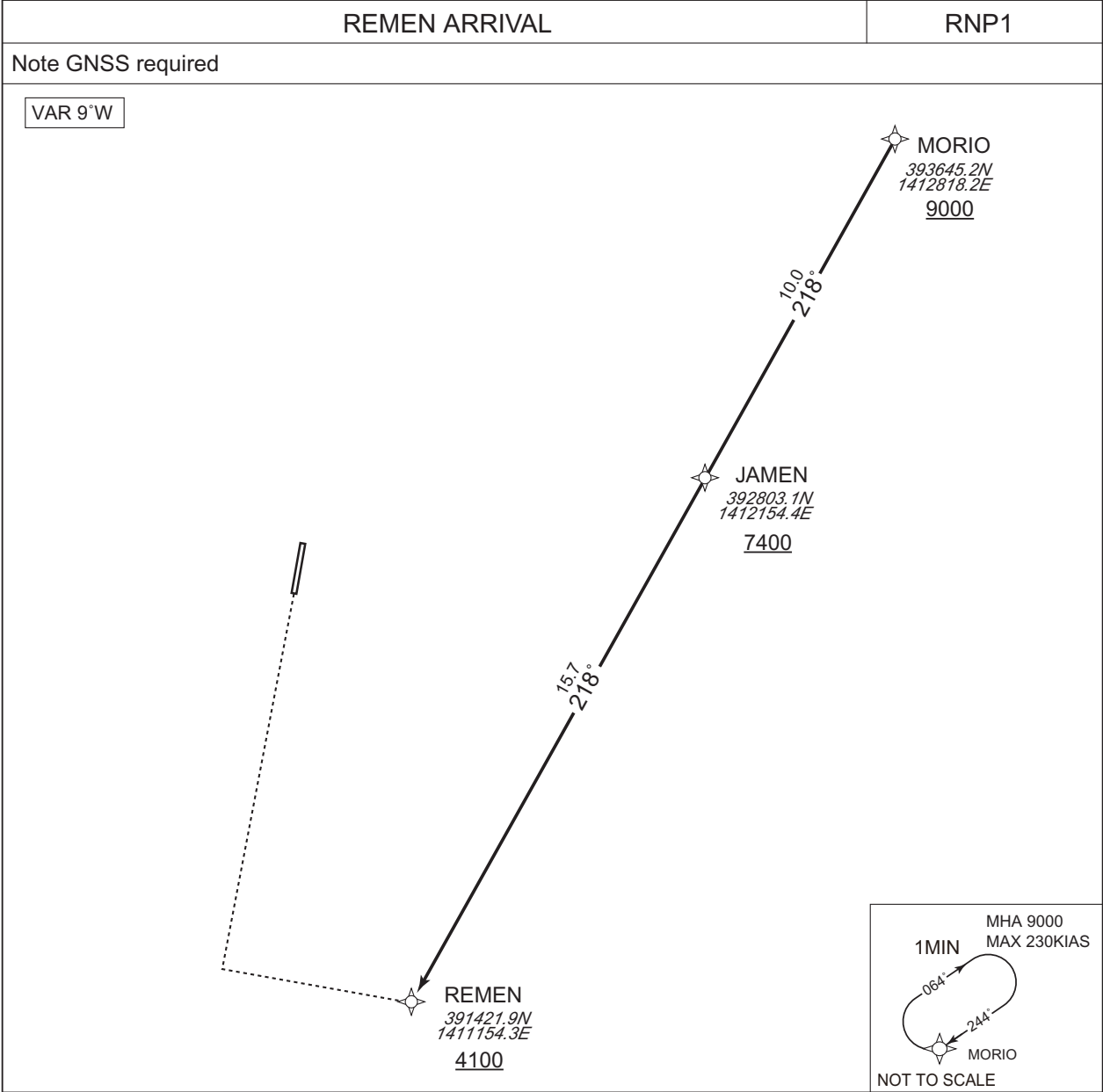
| RWY20         |                 |                     |          |               |                    |               |                |               |              |                |                          |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 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              | —                   | —        | 199 (190.7)   | -8.7               | —             | —              | +800          | —            | —              | RNP1                     |
| 002           | DF              | HANKA               | —        | —             | -8.7               | —             | R              | +11000        | —            | —              | RNP1                     |

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STANDARD ARRIVAL CHART - INSTRUMENT

RJSI / HANAMAKI

RNAV STAR RWY02



From MORIO at or above 9000FT, to JAMEN at or above 7400FT, to REMEN at or above 4100FT.

| 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              | MORIO               | —        | —              | -8.8               | —             | —              | +9000         | —            | —              | RNP1                     |
| 002           | TF              | JAMEN               | —        | 218<br>(209.6) | -8.8               | 10.0          | —              | +7400         | —            | —              | RNP1                     |
| 003           | TF              | REMEN               | —        | 218<br>(209.5) | -8.8               | 15.7          | —              | +4100         | —            | —              | RNP1                     |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|---------------------|----------------|-----------------------|-----------------------|--------------|--------------------------|
| Hold | MORIO               | 244<br>(235.7)        | -8.8               | 1.0(-14000)         | R              | 9000                  | FL140                 | -230(-14000) | RNP1                     |

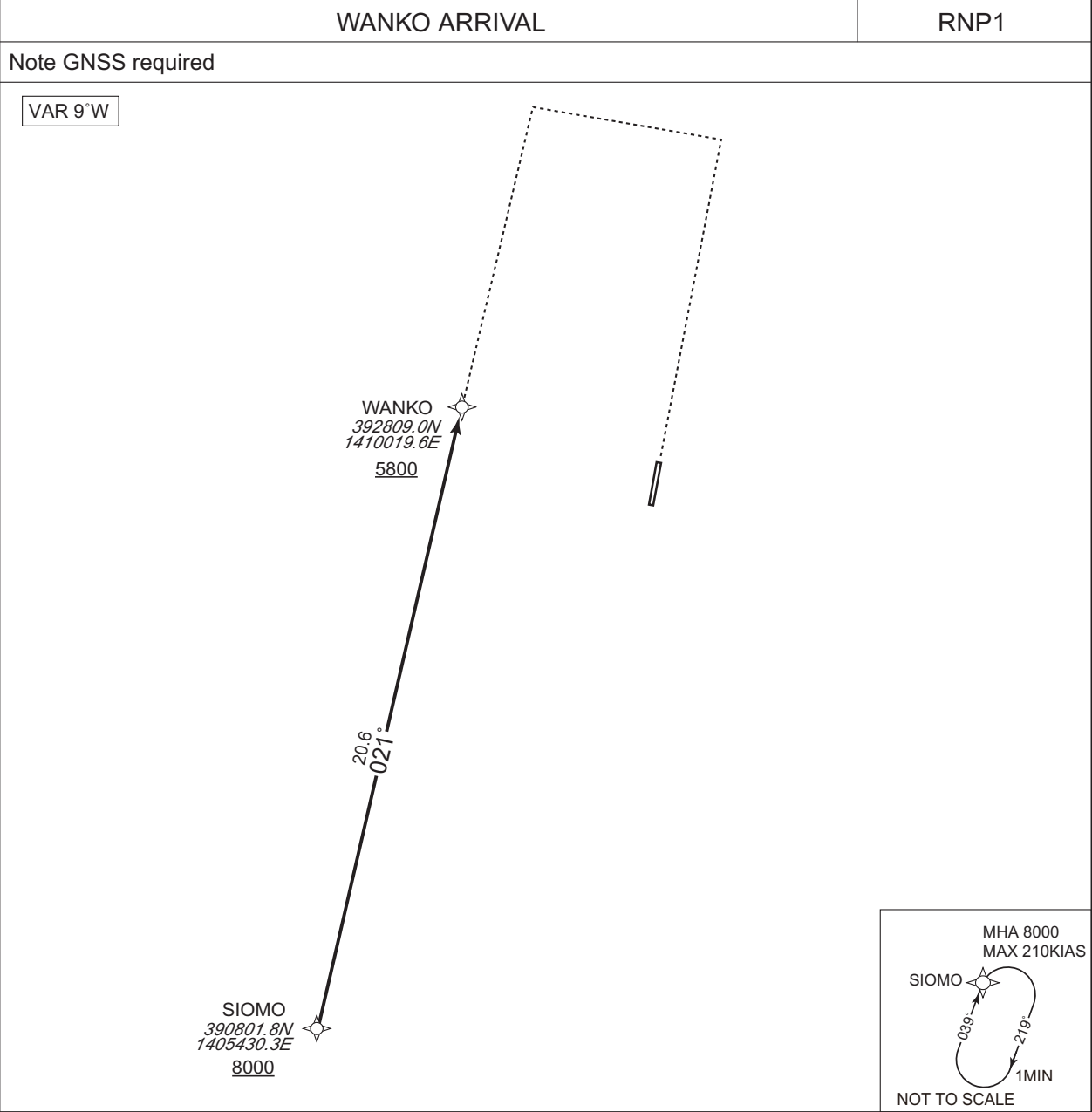
CHANGE : Description of VOR/DME.



STANDARD ARRIVAL CHART - INSTRUMENT

RJSI / HANAMAKI

RNAV STAR RWY20



From SIOMO at or above 8000FT, to WANKO at or above 5800FT.

| 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              | SIOMO               | —        | —             | -8.8               | —             | —              | +8000         | —            | —              | RNP1                     |
| 002           | TF              | WANKO               | —        | 021 (012.6)   | -8.8               | 20.6          | —              | +5800         | —            | —              | RNP1                     |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|---------------------|----------------|-----------------------|-----------------------|--------------|--------------------------|
| Hold | SIOMO               | 039 (030.1)           | -8.8               | 1.0(-14000)         | R              | 8000                  | FL140                 | -210(-14000) | RNP1                     |

CHANGE : Description of VOR/DME.

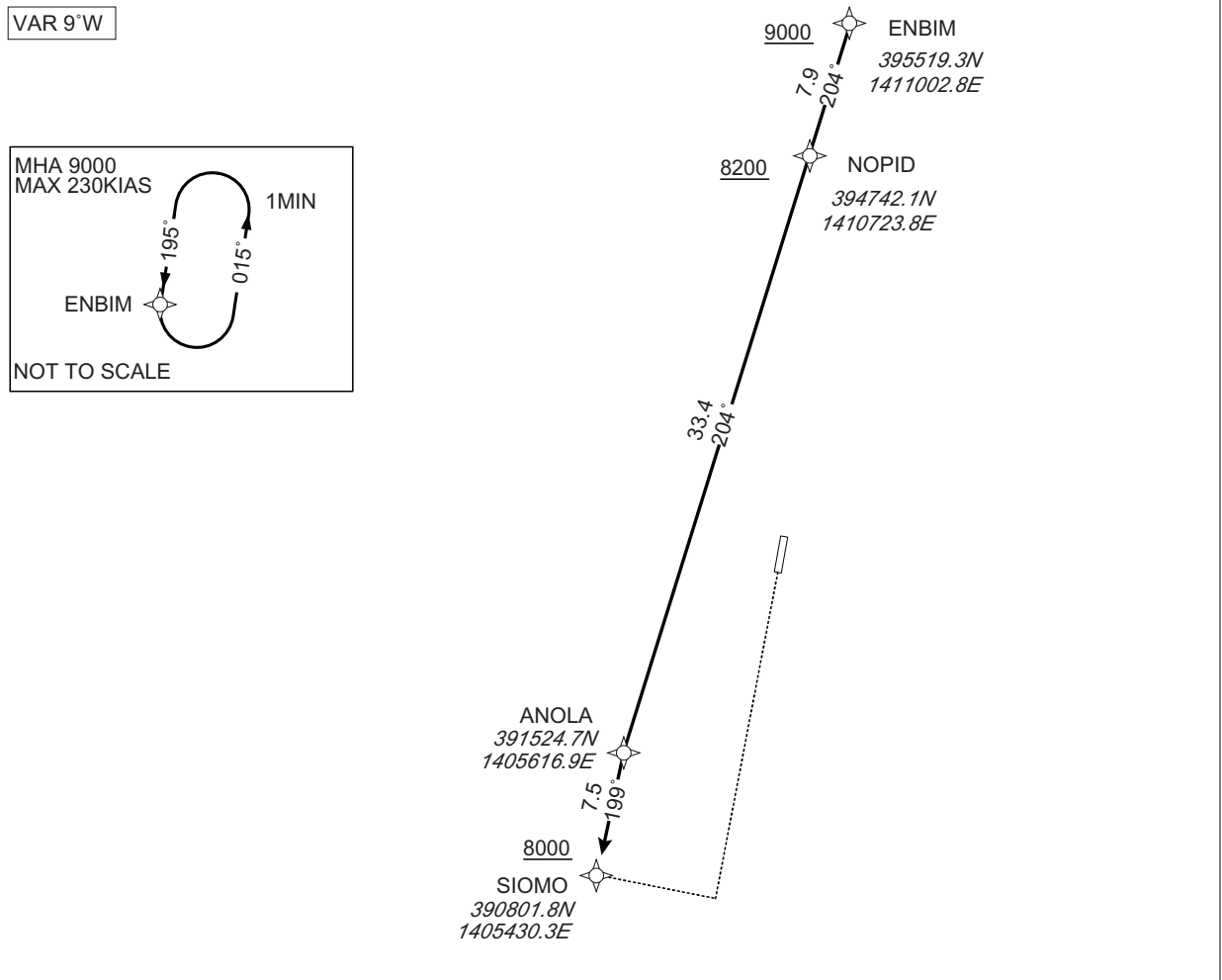
STANDARD ARRIVAL CHART - INSTRUMENT

RJSI / HANAMAKI

RNAV STAR RWY02

|               |      |
|---------------|------|
| SIOMO ARRIVAL | RNP1 |
|---------------|------|

Note GNSS required.



From ENBIM at or above 9000FT, to NOPID at or above 8200FT, to ANOLA, to SIOMO at or above 8000FT.

| 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              | ENBIM               | —        | —              | -8.8               | —             | —              | +9000         | —            | —              | RNP1                     |
| 002           | TF              | NOPID               | —        | 204<br>(195.0) | -8.8               | 7.9           | —              | +8200         | —            | —              | RNP1                     |
| 003           | TF              | ANOLA               | —        | 204<br>(194.9) | -8.8               | 33.4          | —              | —             | —            | —              | RNP1                     |
| 004           | TF              | SIOMO               | —        | 199<br>(190.6) | -8.8               | 7.5           | —              | +8000         | —            | —              | RNP1                     |

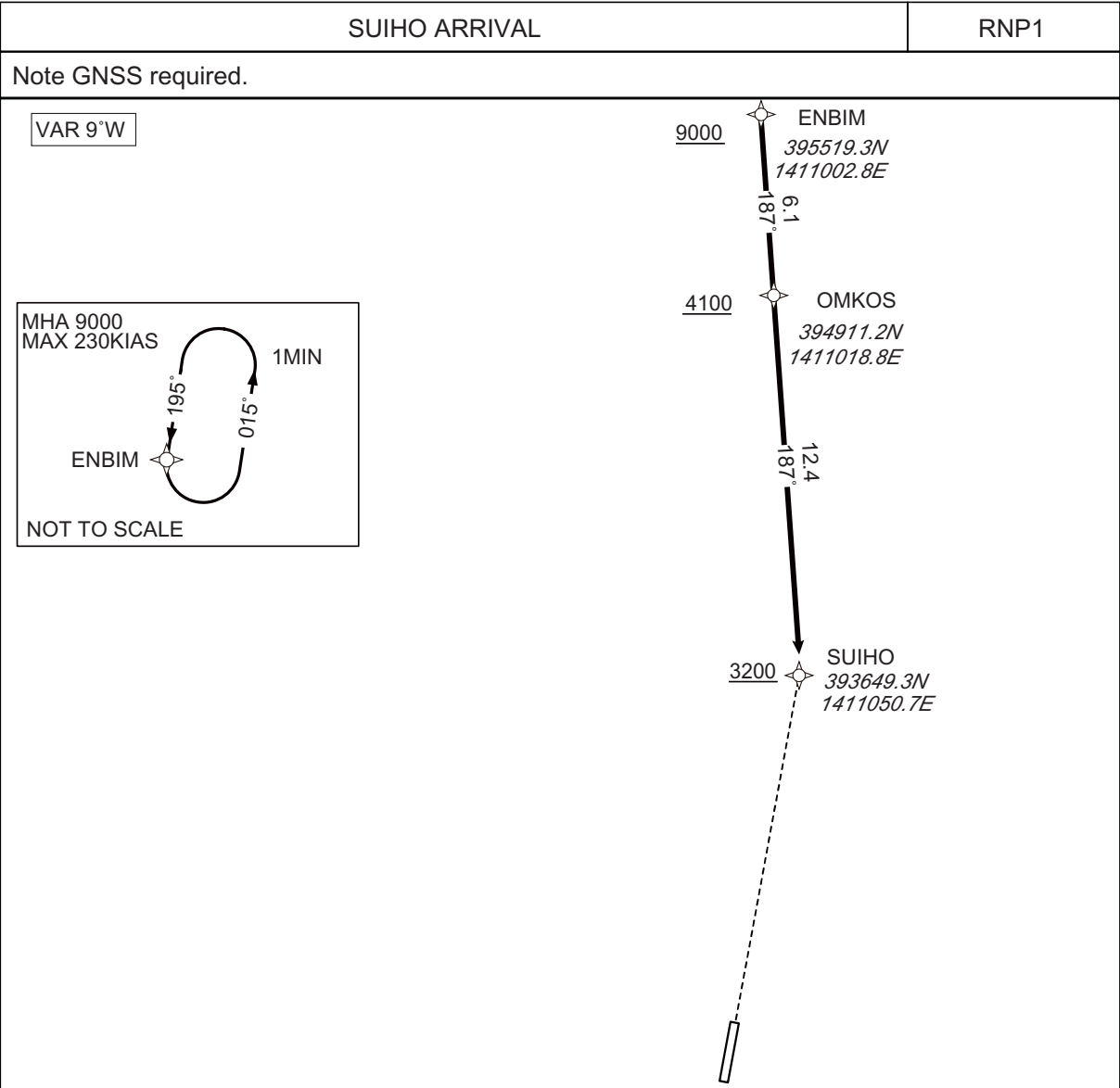
| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS)     | Navigation Specification |
|------|---------------------|-----------------------|--------------------|---------------------|----------------|-----------------------|-----------------------|------------------|--------------------------|
| Hold | ENBIM               | 195<br>(186.5)        | -8.8               | 1.0(-14000)         | L              | 9000                  | FL140                 | -230<br>(-14000) | RNP1                     |

CHANGE : Description of VOR/DME.

STANDARD ARRIVAL CHART - INSTRUMENT

RJSI / HANAMAKI

RNAV STAR RWY20



From ENBIM at or above 9000FT, to OMKOS at or above 4100FT, to SUIHO at or above 3200FT.

| 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              | ENBIM               | —        | —             | -8.8               | —             | —              | +9000         | —            | —              | RNP1                     |
| 002           | TF              | OMKOS               | —        | 187 (178.1)   | -8.8               | 6.1           | —              | +4100         | —            | —              | RNP1                     |
| 003           | TF              | SUIHO               | —        | 187 (178.1)   | -8.8               | 12.4          | —              | +3200         | —            | —              | RNP1                     |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS)  | Navigation Specification |
|------|---------------------|-----------------------|--------------------|---------------------|----------------|-----------------------|-----------------------|---------------|--------------------------|
| Hold | ENBIM               | 195 (186.5)           | -8.8               | 1.0(-14000)         | L              | 9000                  | FL140                 | -230 (-14000) | RNP1                     |

CHANGE : Description of VOR/DME.

## RJSI / HANAMAKI

## RNAV STAR RWY20

## RNP1

VAR 9°W

4300  
3300  
2300  
1300  
AD elev.294  
Contour  
Intervals

39° 20' N

141° 0' E

141° 20' E

SIOMO  
390801.8N  
1405430.3E  
8000

REMEN  
391421.9N  
1411154.3E  
6000

14.9  
074°

5077

4503

3041

2855

5 0 5 10 15 20 12  
2 0 2 4 6 8 10 12  
NM

MHA 8000  
MAX 210KIAS

SIOMO

039°

219°

1MIN

NOT TO SCALE

From SIOMO at or above 8000FT, to REMEN 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              | SIOMO               | -        | -             | -8.8               | -             | -              | +8000         | -            | -              | RNP1                     |
| 002           | TF              | REMEN               | -        | 074 (064.7)   | -8.8               | 14.9          | -              | +6000         | -            | -              | RNP1                     |

| Path | Waypoint Identifier | Inbound Course<br>°M(°T) | Magnetic Variation | Outbound Time<br>(MIN) | Turn Direction | Minimum Altitude<br>(FT) | Maximum Altitude<br>(FT) | Speed<br>(KIAS) | Navigation Specification |
|------|---------------------|--------------------------|--------------------|------------------------|----------------|--------------------------|--------------------------|-----------------|--------------------------|
| Hold | SIOMO               | 039<br>(030.1)           | -8.8               | 1.0(-14000)            | R              | 8000                     | FL140                    | -210(-14000)    | RNP1                     |

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## RJSI / HANAMAKI

|  |  |                                 |            |
|--|--|---------------------------------|------------|
| SHIRAKAMI APP<br>119.25 - 315.3 - 120.65 | ILS – LOC<br>109.3 IHP<br>ILS – GP 332.0<br>ILS – DME CH-30X | HANAMAKI RADIO<br>118.2 – 126.2 | RADAR AVBL |
|--|--|---------------------------------|------------|

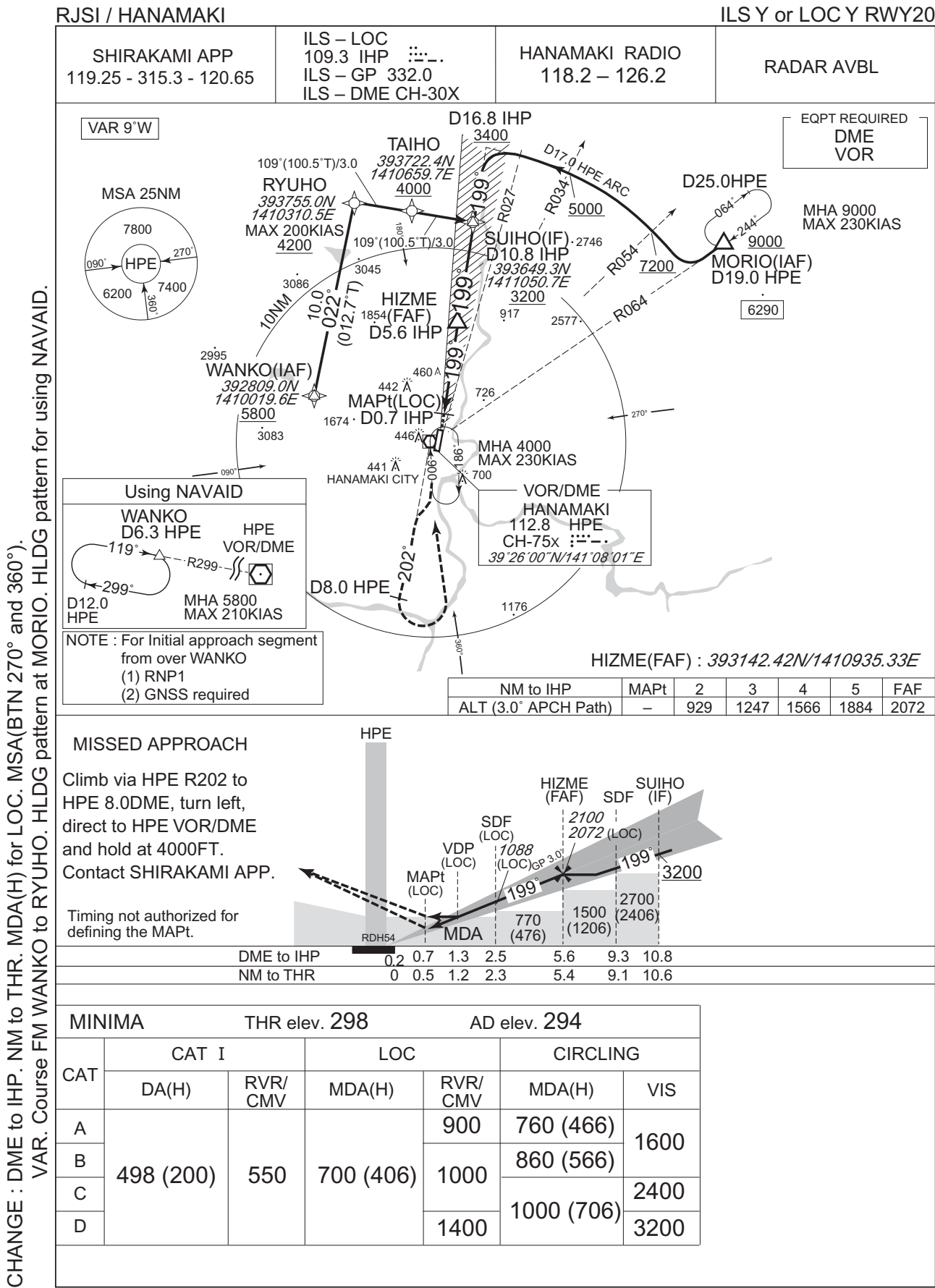


|                      |      |     |      |      |      |      |
|----------------------|------|-----|------|------|------|------|
| NM to IHP            | MAPt | 2   | 3    | 4    | 5    | FAF  |
| ALT (3.0° APCH Path) | –    | 929 | 1247 | 1566 | 1884 | 2072 |

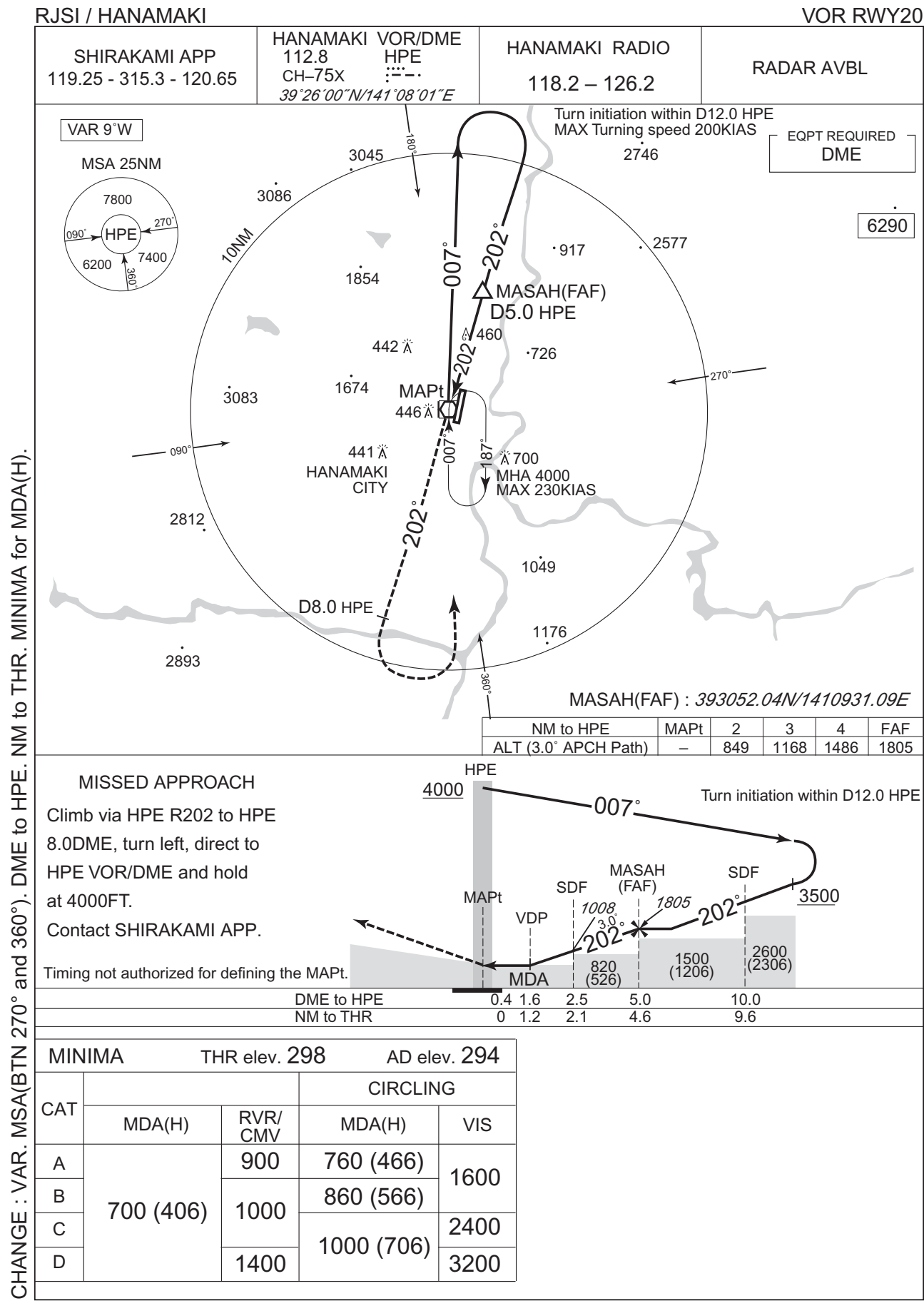
|            |     |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|-----|
| DME to IHP | 0.2 | 0.7 | 1.3 | 2.5 | 5.6 | 9.3 |
| NM to THR  | 0   | 0.5 | 1.2 | 2.3 | 5.4 | 9.1 |

| MINIMA |           | THR elev. 298 |           | AD elev. 294 |            |      |
|--------|-----------|---------------|-----------|--------------|------------|------|
| CAT    | CAT I     |               | LOC       |              | CIRCLING   |      |
|        | DA(H)     | RVR/<br>CMV   | MDA(H)    | RVR/<br>CMV  | MDA(H)     | VIS  |
| A      | 498 (200) | 550           | 700 (406) | 900          | 760 (466)  | 1600 |
| B      |           |               |           | 1000         | 860 (566)  |      |
| C      |           |               |           |              | 1000 (706) | 2400 |
| D      |           |               |           |              |            | 1400 |

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART





## RJSI / HANAMAKI

SHIRAKAMI APP

119.25 - 315.3 - 120.65

HANAMAKI VOR/DME

112.8 HPE  
CH-75X  
39°26'00"N/141°08'01"E

HANAMAKI RADIO

118.2 – 126.2

RADAR AVBL

VAR 9°W

MSA 25NM

7800

270°

HPE

090°

6200

7400

090°

EQPT REQUIRED

DME

6290

| NM to HPE            | FAF  | 5    | 4    | 3   | 2   | MAPt |
|----------------------|------|------|------|-----|-----|------|
| ALT (3.0° APCH Path) | 1925 | 1626 | 1308 | 989 | 671 | —    |

Turn initiation within D11.0 HPE

4500 HPE

179°

SHIHO (FAF)

1925

830

SDF VDP

MAPt

2300

015°

1500 (1217)

800 (517)

MDA

MISSED APPROACH

Climb via HPE R015 to HPE  
6.0DME, turn right, direct to HPE  
VOR/DME and hold at 4500FT.  
Contact SHIRAKAMI APP.

Timing not authorized for defining the MAPt.

| Missed APCH climb gradient MNM 3.6% |                               |
|-------------------------------------|-------------------------------|
| MINIMA                              | THR elev. 283 AD elev. 294    |
| CAT                                 | CIRCLING                      |
|                                     | MDA(H) CMV MDA(H) VIS         |
| A                                   | 670 (387) 1200 760 (466) 1600 |
| B                                   | 1300 860 (566)                |
| C                                   | 1400 2400                     |
| D                                   | 1600 1000 (706) 3200          |

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

CHANGE : VAR. MSA(BTN 270° and 360°). PROC course. Missed APCH course. HLDG pattern.  
OCA(H). DME to HPE. MINIMA for MDA(H).

## RJSI / HANAMAKI

RNP Z RWY02



## INSTRUMENT APPROACH CHART

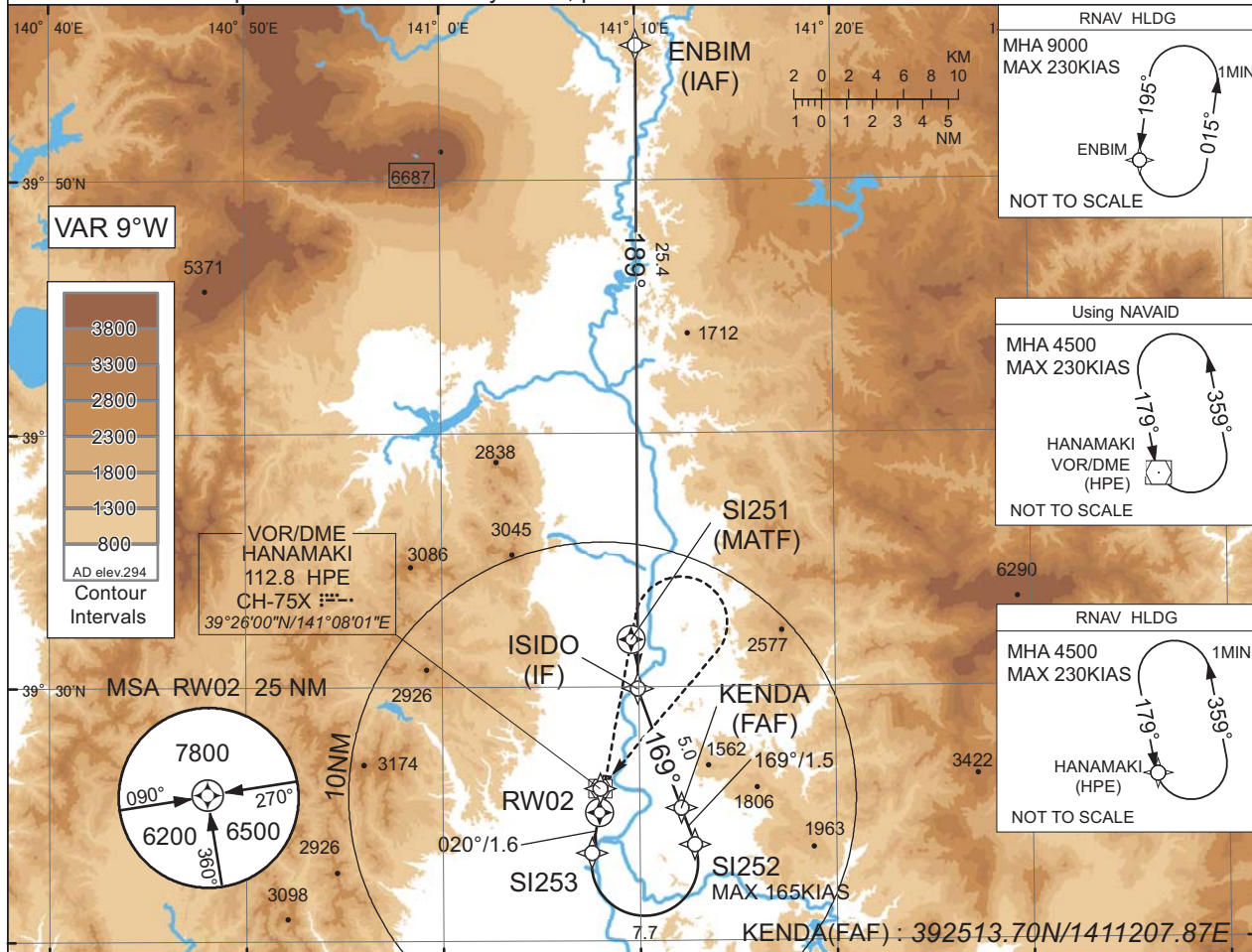
RJSI / HANAMAKI

RNP Y RWY02(AR)

SHIRAKAMI APP  
119.25 - 315.3 - 120.65RNP AR  
RF required.HANAMAKI RADIO  
118.2 - 126.2

RADAR AVBL

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

ENBIM  
(IAF)

9000

41.3

ISIDO  
(IF)

4000

15.9

KENDA  
(FAF)

3800

10.9

SI252

9.4

SI253

1.6

848

0

RWY02

RDH 50

## MISSED APPROACH

Climb to 4500FT, direct to  
SI251, turn right direct to  
HPE and hold.  
Contact SHIRAKAMI APP.

NM to THR

Missed APCH climb gradient MNM 4.0%

| MINIMA | THR elev. 283 | AD elev. 294 |
|--------|---------------|--------------|
| CAT    | RNP 0.30      |              |
|        | DA(H)         | CMV          |
| A      | -             | -            |
| B      | -             | -            |
| C      | 595(312)      | 1400         |
| D      |               | 1600         |

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

Authorization Required

CHANGE : HLDG pattern for using NAVAID. RNAV HLDG at HANAMAKI.

INSTRUMENT APPROACH CHART

RJSI / HANAMAKI

RNP Y RWY02(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                           | ENBIM               | -        | -             | -8.8               | -             | -              | +9000         | -            | -               | -         |
| 002           | TF                           | ISIDO               | -        | 189 (180.2)   | -8.8               | 25.4          | -              | +4000         | -            | -               | 1.0       |
| 003           | TF                           | KENDA               | -        | 169 (160.3)   | -8.8               | 5.0           | -              | 3800          | -            | -               | 1.0       |
| 004           | TF                           | SI252               | -        | 169 (160.4)   | -8.8               | 1.5           | -              | 3312          | -165         | -3.00           | 0.3       |
| 005           | RF Center: SIRF1<br>r=2.10NM | SI253               | -        | -             | -8.8               | 7.7           | R              | 848           | -            | -3.00           | 0.3       |
| 006           | TF                           | RW02                | Y        | 020 (010.7)   | -8.8               | 1.6           | -              | 333           | -            | -3.00/50        | 0.3       |
| 007           | DF                           | SI251               | Y        | -             | -8.8               | -             | -              | -             | -            | -               | 1.0       |
| 008           | DF                           | HPE                 | -        | -             | -8.8               | -             | R              | 4500          | -            | -               | 1.0       |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS)  | RNP Value |
|------|---------------------|-----------------------|--------------------|---------------------|----------------|-----------------------|-----------------------|---------------|-----------|
| Hold | ENBIM               | 195 (186.5)           | -8.8               | 1.0 (-14000)        | L              | 9000                  | FL140                 | -230 (-14000) | 1.0       |
| Hold | HPE                 | 179 (169.7)           | -8.9               | 1.0 (-14000)        | L              | 4500                  | FL140                 | -230 (-14000) | 1.0       |

| Waypoint Coordinates |  |                          |                          |                          |
|----------------------|--|--------------------------|--------------------------|--------------------------|
| Waypoint Identifier  |  | Coordinates              | RF Arc Center Identifier | Coordinates              |
| ENBIM                |  | 395519.34N / 1411002.82E | SIRF1                    | 392304.37N / 1411014.42E |
| ISIDO                |  | 392956.45N / 1410957.05E |                          |                          |
| KENDA                |  | 392513.70N / 1411207.87E |                          |                          |
| SI252                |  | 392347.07N / 1411247.89E |                          |                          |
| SI253                |  | 392327.97N / 1410734.24E |                          |                          |
| RW02                 |  | 392503.58N / 1410757.62E |                          |                          |
| SI251                |  | 393152.68N / 1410937.82E |                          |                          |
| HPE                  |  | 392600.09N / 1410800.60E |                          |                          |

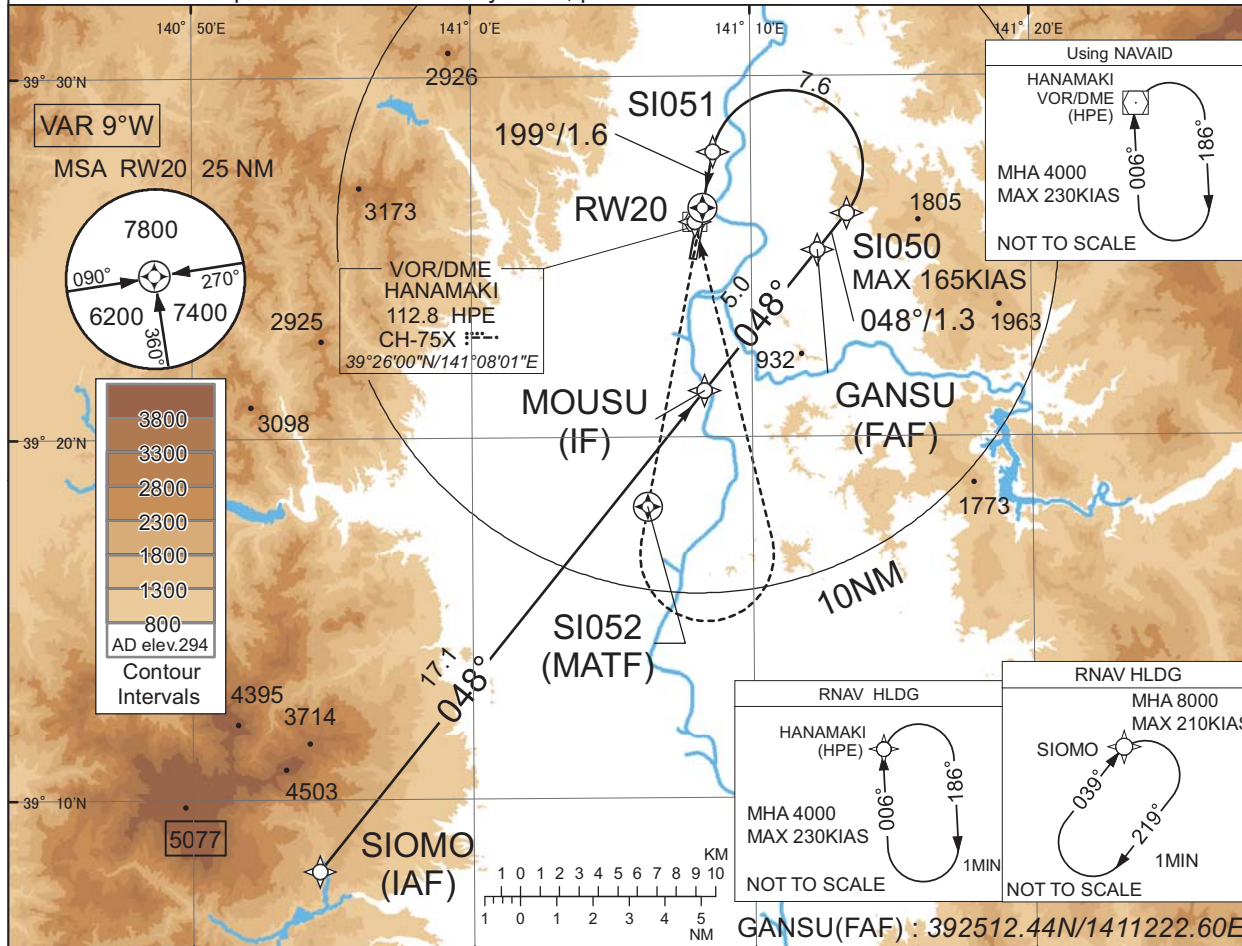
CHANGE : HLDG at HPE. VAR.

## RJSI / HANAMAKI

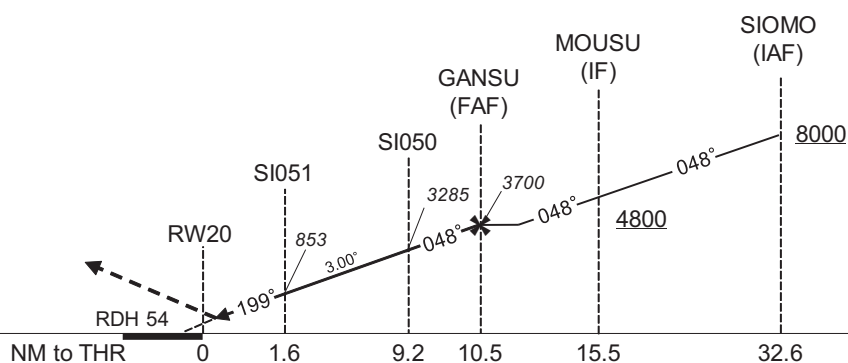
RNP Z RWY20(AR)

|  |                        |                                 |            |
|--|------------------------|---------------------------------|------------|
| SHIRAKAMI APP<br>119.25 - 315.3 - 120.65 | RNP AR<br>RF required. | HANAMAKI RADIO<br>118.2 - 126.2 | RADAR AVBL |
|--|------------------------|---------------------------------|------------|

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



Climb to 4000FT, direct to SI052, turn left direct to HPE and hold.  
Contact SHIRAKAMI APP.



|        |               |              |
|--------|---------------|--------------|
| MINIMA | THR elev. 298 | AD elev. 294 |
| CAT    | RNP 0.30      |              |
|        | DA(H)         | RVR/CMV      |
| A      | -             | -            |
| B      |               |              |
| C      | 607(309)      | 1000         |
| D      |               | 1400         |

## Authorization Required



## INSTRUMENT APPROACH CHART

RJSI / HANAMAKI

RNP Z RWY20(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                        | SIOMO               | -        | -             | -8.8               | -             | -              | +8000         | -            | -               | -         |
| 002           | TF                        | MOUSU               | -        | 048 (038.8)   | -8.8               | 17.1          | -              | +4800         | -            | -               | 1.0       |
| 003           | TF                        | GANSU               | -        | 048 (038.9)   | -8.8               | 5.0           | -              | 3700          | -            | -               | 1.0       |
| 004           | TF                        | SI050               | -        | 048 (038.9)   | -8.8               | 1.3           | -              | 3285          | -165         | -3.00           | 0.3       |
| 005           | RF Center: SIRF2 r=2.10NM | SI051               | -        | -             | -8.8               | 7.6           | L              | 853           | -            | -3.00           | 0.3       |
| 006           | TF                        | RW20                | Y        | 199 (190.7)   | -8.8               | 1.6           | -              | 352           | -            | -3.00/54        | 0.3       |
| 007           | DF                        | SI052               | Y        | -             | -8.8               | -             | -              | -             | -            | -               | 1.0       |
| 008           | DF                        | HPE                 | -        | -             | -8.8               | -             | L              | 4000          | -            | -               | 1.0       |

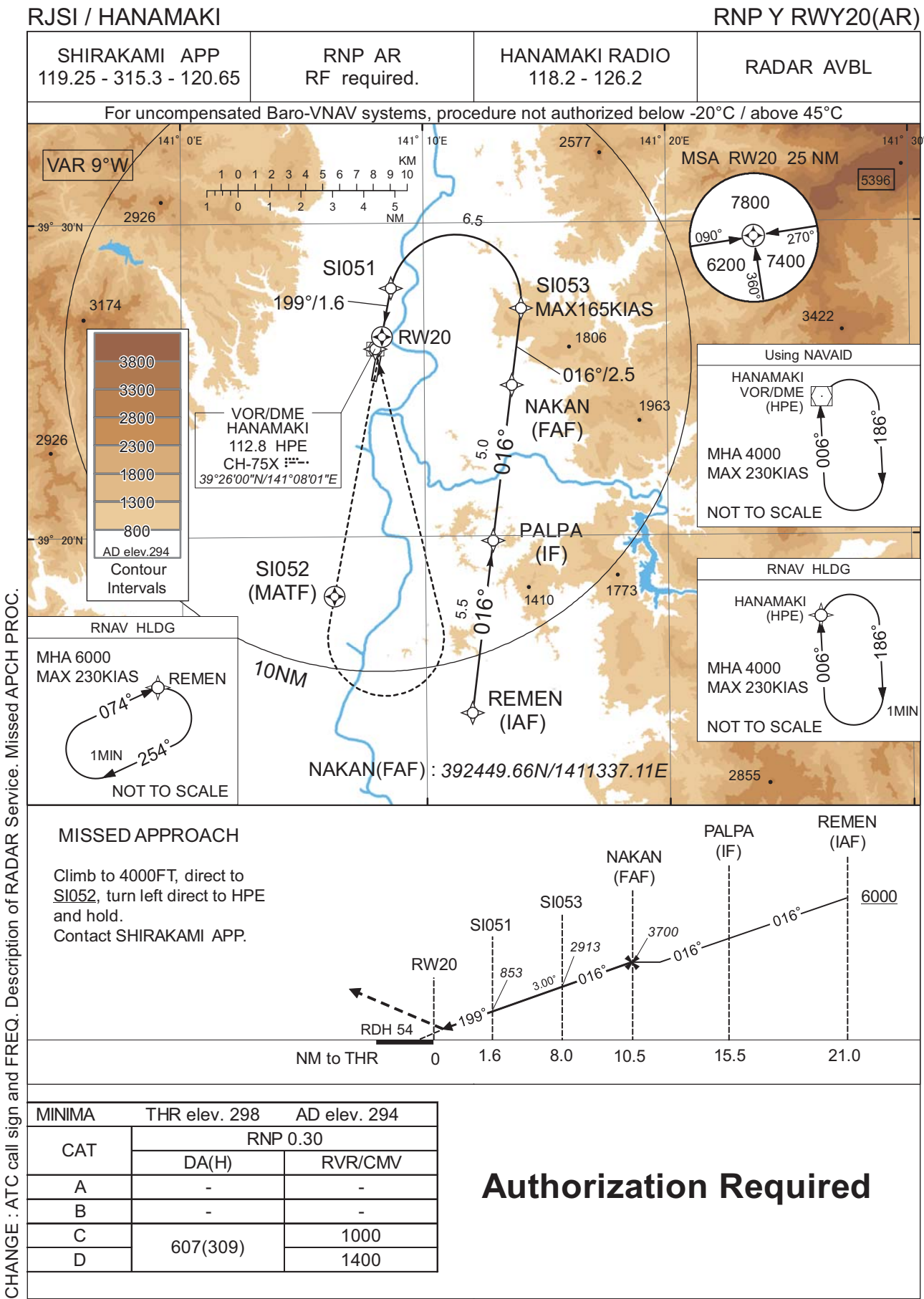
| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS)  | RNP Value |
|------|---------------------|-----------------------|--------------------|---------------------|----------------|-----------------------|-----------------------|---------------|-----------|
| Hold | SIOMO               | 039 (030.1)           | -8.8               | 1.0 (-14000)        | R              | 8000                  | FL140                 | -210 (-14000) | 1.0       |
| Hold | HPE                 | 006 (357.5)           | -8.8               | 1.0 (-14000)        | R              | 4000                  | FL140                 | -230 (-14000) | 1.0       |

Waypoint Coordinates

| Waypoint Identifier | Coordinates              | RF Arc Center Identifier | Coordinates              |
|---------------------|--------------------------|--------------------------|--------------------------|
| SIOMO               | 390801.78N / 1405430.28E | SIRF2                    | 392732.73N / 1411119.82E |
| MOUSU               | 392119.11N / 1410818.81E |                          |                          |
| GANSU               | 392512.44N / 1411222.60E |                          |                          |
| SI050               | 392613.23N / 1411326.21E |                          |                          |
| SI051               | 392756.30N / 1410839.89E |                          |                          |
| RW20                | 392623.24N / 1410817.11E |                          |                          |
| SI052               | 391806.42N / 1410615.76E |                          |                          |
| HPE                 | 392600.09N / 1410800.60E |                          |                          |

CHANGE : PROC renamed.

INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART

RJSI / HANAMAKI

RNP Y RWY20(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                        | REMEN               | -        | -             | -8.8               | -             | -              | +6000         | -            | -               | -         |
| 002           | TF                        | PALPA               | -        | 016 (007.2)   | -8.8               | 5.5           | -              | -             | -            | -               | 1.0       |
| 003           | TF                        | NAKAN               | -        | 016 (007.2)   | -8.8               | 5.0           | -              | 3700          | -            | -               | 1.0       |
| 004           | TF                        | SI053               | -        | 016 (007.2)   | -8.8               | 2.5           | -              | 2913          | -165         | -3.00           | 0.3       |
| 005           | RF Center: SIRF2 r=2.10NM | SI051               | -        | -             | -8.8               | 6.5           | L              | 853           | -            | -3.00           | 0.3       |
| 006           | TF                        | RW20                | Y        | 199 (190.7)   | -8.8               | 1.6           | -              | 352           | -            | -3.00/54        | 0.3       |
| 007           | DF                        | SI052               | Y        | -             | -8.8               | -             | -              | -             | -            | -               | 1.0       |
| 008           | DF                        | HPE                 | -        | -             | -8.8               | -             | L              | 4000          | -            | -               | 1.0       |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS)  | RNP Value |
|------|---------------------|-----------------------|--------------------|---------------------|----------------|-----------------------|-----------------------|---------------|-----------|
| Hold | REMEN               | 074 (065.0)           | -8.8               | 1.0 (-14000)        | R              | 6000                  | FL140                 | -230 (-14000) | 1.0       |
| Hold | HPE                 | 006 (357.5)           | -8.8               | 1.0 (-14000)        | R              | 4000                  | FL140                 | -230 (-14000) | 1.0       |

Waypoint Coordinates

| Waypoint Identifier | Coordinates              | RF Arc Center Identifier | Coordinates              |
|---------------------|--------------------------|--------------------------|--------------------------|
| REMEN               | 391421.92N / 1411154.27E | SIRF2                    | 392732.73N / 1411119.82E |
| PALPA               | 391951.68N / 1411248.23E |                          |                          |
| NAKAN               | 392449.66N / 1411337.11E |                          |                          |
| SI053               | 392716.81N / 1411401.29E |                          |                          |
| SI051               | 392756.30N / 1410839.89E |                          |                          |
| RW20                | 392623.24N / 1410817.11E |                          |                          |
| SI052               | 391806.42N / 1410615.76E |                          |                          |
| HPE                 | 392600.09N / 1410800.60E |                          |                          |

CHANGE : PROC renamed.



RJSI / HANAMAKI

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. Taseko established. Tsuchisawa abolished.

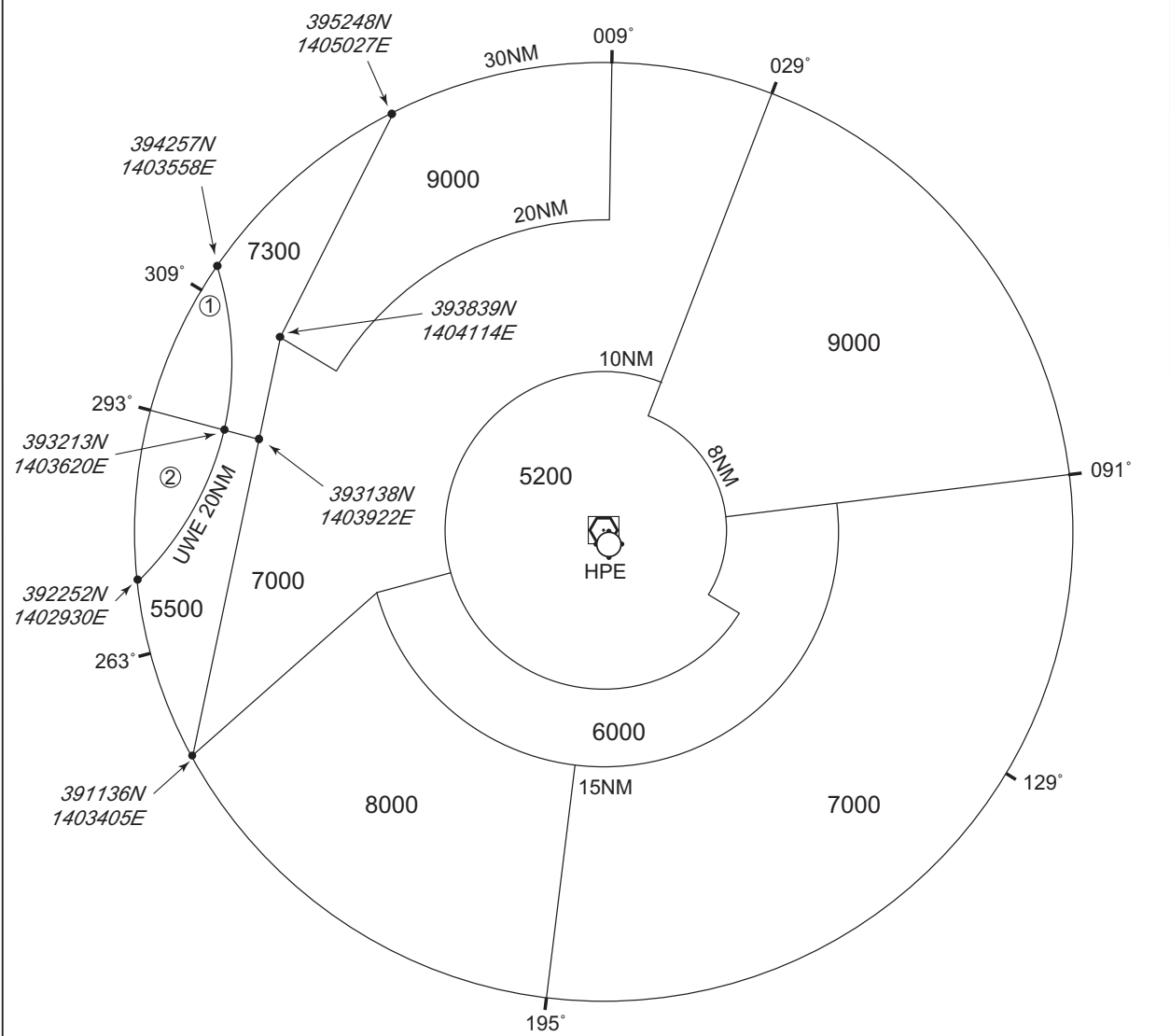
| Call sign       | BRG / DIST from ARP | Remarks                    |
|-----------------|---------------------|----------------------------|
| 盛岡<br>Morioka   | 360°T / 16.4NM      | JR駅<br>JR Station          |
| 城山<br>Shiroyama | 012°T / 8.4NM       | 城跡<br>The site of a castle |
| 豊沢<br>Toyosawa  | 293°T / 8.1NM       | 豊沢ダム<br>Dam                |
| 田瀬湖<br>Taseko   | 121°T / 10.0NM      | 田瀬ダム<br>Dam                |
| 北上<br>Kitakami  | 184°T / 8.9NM       | JR駅<br>JR Station          |
| 水沢<br>Mizusawa  | 178°T / 17.4NM      | JR駅<br>JR Station          |



RJSI / HANAMAKI

Minimum Vectoring Altitude CHART

VAR 9°W (2024)



- ① 5900
- ② 3400

CENTER : 392600N/1410801E (HPE VOR/DME)

CHANGE : Update.