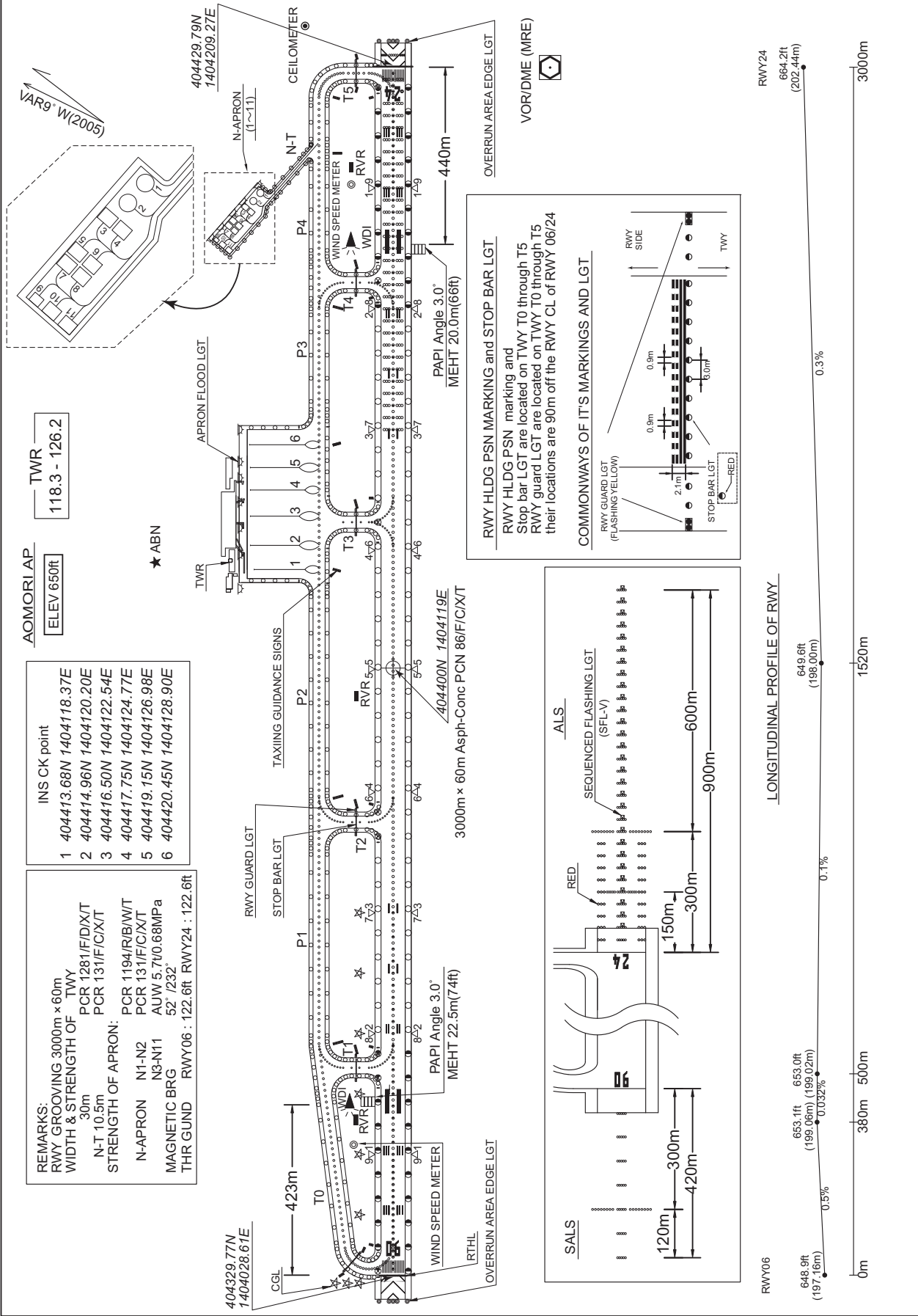


RJSA / AOMORI

AD CHART



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PRECISION APPROACH TERRAIN CHART



STANDARD DEPARTURE CHART-INSTRUMENT

RJSA / AOMORI

SID and TRANSITION

IWAKI SEVEN DEPARTURE

- RWY06 : Climb RWY HDG to 1100FT, turn left HDG 292° to intercept and proceed via MRE R331 to 12.0DME, turn left, via HWE R208 to GONOU.
Cross MRE R331/8.0DME at or above 3600FT, cross HWE R208/63.0DME at or above 7000FT, cross GONOU at or above 9000FT.
- RWY24 : Climb RWY HDG to 1200FT, via MRE R239 to GONOU.
Cross GONOU at or above 9000FT.

Note RWY24 : No turn before DER.

5.0% climb gradient required up to 1200FT.

OBST ALT 782FT located at 0.8NM 223° FM end of RWY24.

YUWA TRANSITION

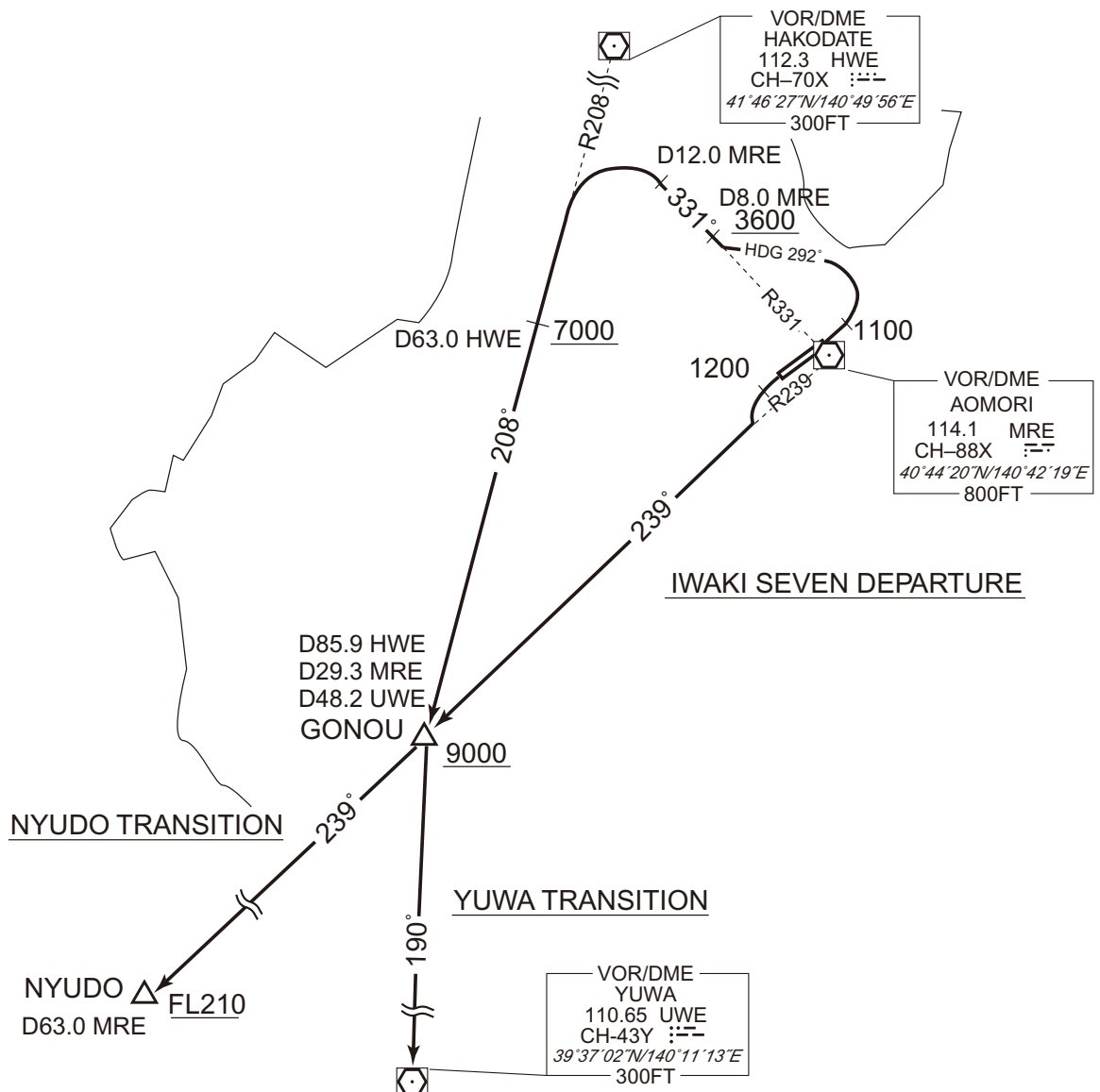
From over GONOU, via UWE R010 to UWE VOR/DME.

NYUDO TRANSITION

From over GONOU, via MRE R239 to NYUDO.

Cross NYUDO at or above FL210.

CHANGE : PROC renamed(IWAKI SEVEN DEPARTURE). PROC course.



STANDARD DEPARTURE CHART-INSTRUMENT

RJSA / AOMORI

SID

AOMORI REVERSAL THREE DEPARTURE

RWY06 : Climb RWY HDG to 1100FT, turn left HDG 286°...

RWY24 : Climb RWY HDG to 1200FT, turn right HDG 016°...

...to intercept and proceed via MRE R331 to 10.0DME, turn left,
direct to MRE VOR/DME.Cross MRE R331/8.0DME at or above 3600FT, cross MRE VOR/DME
at or above 6500FT.

Note RWY24 : 5.0% climb gradient required up to 1200FT.

OBST ALT 782FT located at 0.8NM 223° FM end of RWY24.



CHANGE : PROC renamed. PROC course.

STANDARD DEPARTURE CHART-INSTRUMENT

RJSA / AOMORI

RNAV SID

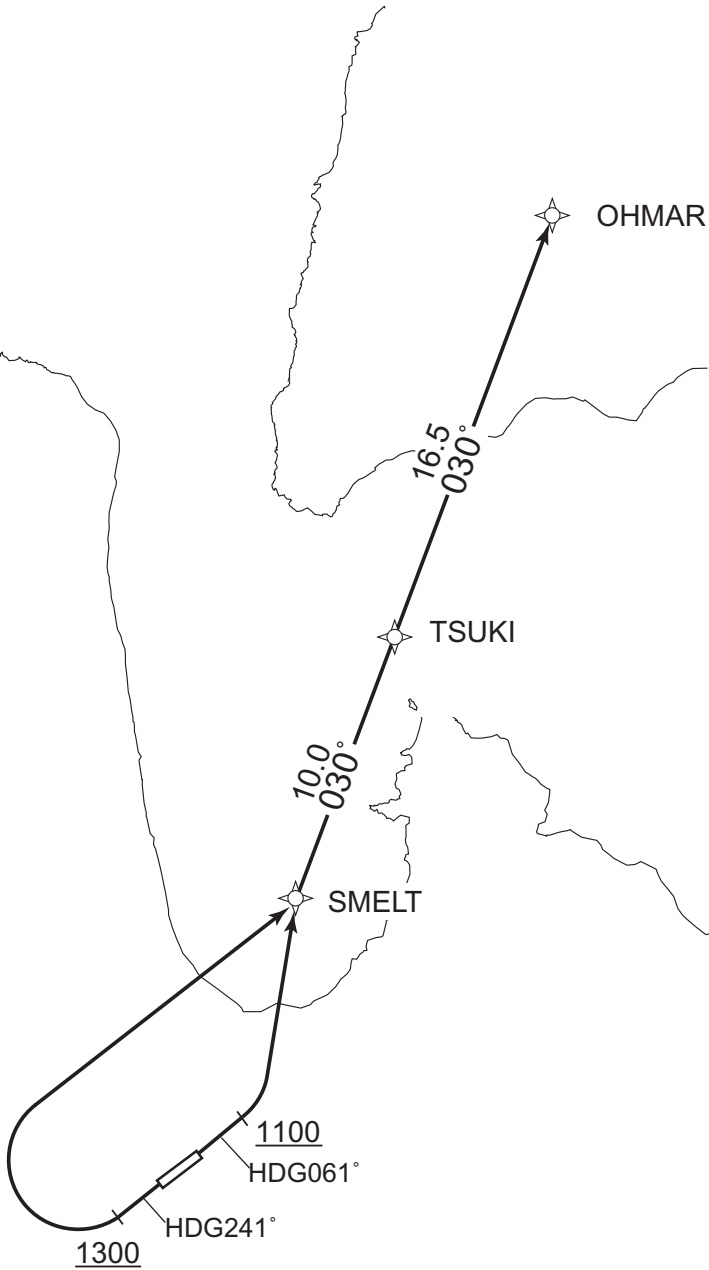
OHMAR TWO DEPARTURE

RNP1

Note GNSS required.

VAR 9°W

CHANGE : Description of latitude and longitude.



RWY06 : Climb on HDG061° at or above 1100FT, turn left direct to SMELT, to TSUKI, to OHMAR.
RWY24 : Climb on HDG241° at or above 1300FT, turn right direct to SMELT, to TSUKI, to OHMAR.
NOTE RWY24 : 5.0% climb gradient required up to 1300FT.
OBST ALT 782FT located at 0.8NM 223° FM end of RWY24.

STANDARD DEPARTURE CHART-INSTRUMENT

RJSA / AOMORI

RNAV SID

OHMAR TWO DEPARTURE

RWY06

| 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 | - | - | 061 (051.8) | -9.3 | - | - | +1100 | - | - | RNP1 |
| 002 | DF | SMELT | - | - | -9.3 | - | L | - | - | - | RNP1 |
| 003 | TF | TSUKI | - | 030 (020.5) | -9.3 | 10.0 | - | - | - | - | RNP1 |
| 004 | TF | OHMAR | - | 030 (020.5) | -9.3 | 16.5 | - | - | - | - | RNP1 |

RWY24

| 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 | - | - | 241 (231.8) | -9.3 | - | - | +1300 | - | - | RNP1 |
| 002 | DF | SMELT | - | - | -9.3 | - | R | - | - | - | RNP1 |
| 003 | TF | TSUKI | - | 030 (020.5) | -9.3 | 10.0 | - | - | - | - | RNP1 |
| 004 | TF | OHMAR | - | 030 (020.5) | -9.3 | 16.5 | - | - | - | - | RNP1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates |
|---------------------|------------------------|
| SMELT | 405342.0N / 1404654.0E |
| TSUKI | 410305.1N / 1405132.7E |
| OHMAR | 411834.0N / 1405915.6E |

CHANGE : Waypoint Coordinates added.

STANDARD DEPARTURE CHART-INSTRUMENT

RJSA / AOMORI

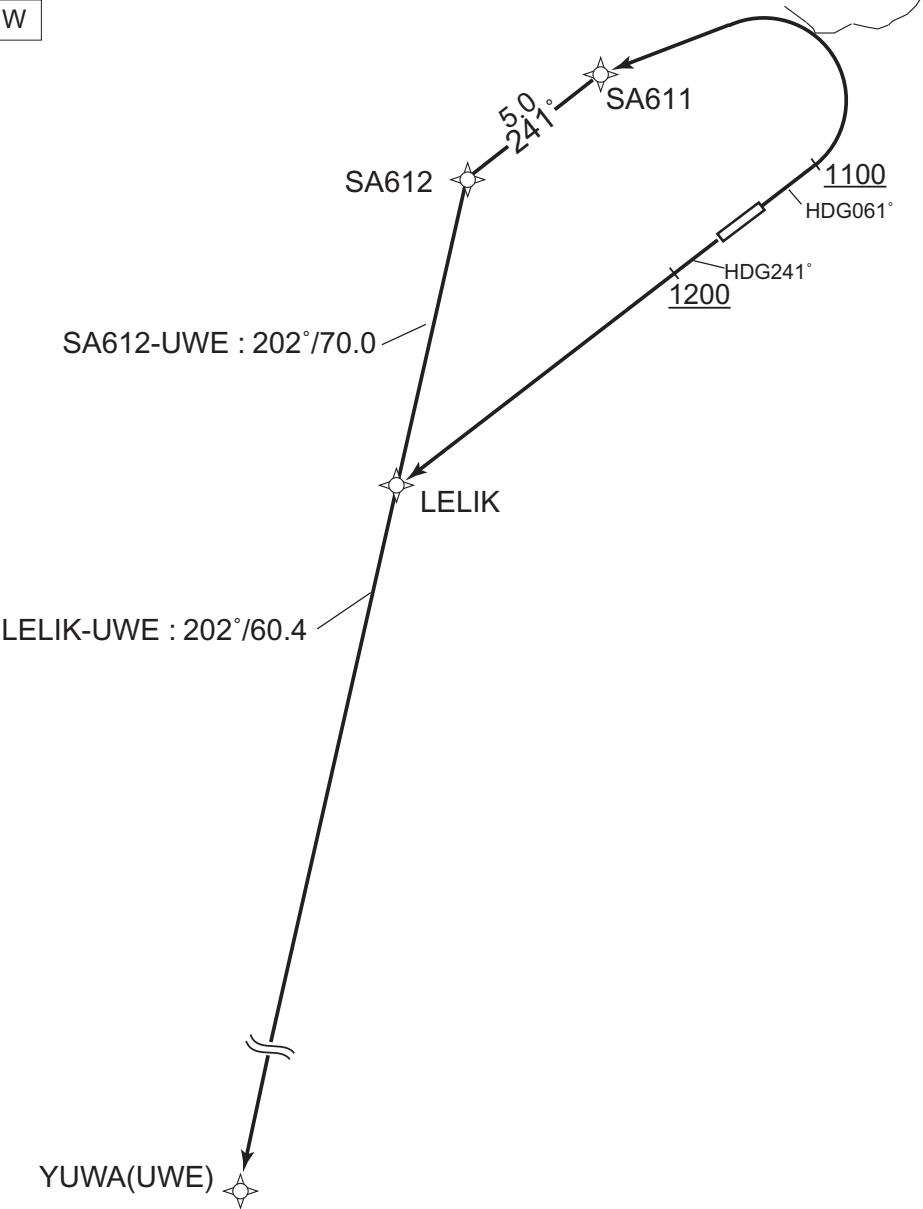
RNAV SID

SHIRAKAMI THREE DEPARTURE

RNP1

Note GNSS required.

VAR 9°W



CHANGE : PROC renamed. LELIK established. SA411 abolished.

- RWY06 : Climb on HDG061° at or above 1100FT, turn left direct to SA611, to SA612, to UWE.
- RWY24 : Climb on HDG241° at or above 1200FT, direct to LELIK, to UWE.
- NOTE RWY24 : 5.0% climb gradient required up to 1200FT.
OBST ALT 782FT located at 0.8NM 223° FM end of RWY24.

STANDARD DEPARTURE CHART-INSTRUMENT

RJSA / AOMORI

RNAV SID

SHIRAKAMI THREE DEPARTURE

RWY06

| 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 | - | - | 061 (051.8) | -9.3 | - | - | +1100 | - | - | RNP1 |
| 002 | DF | SA611 | - | - | -9.3 | - | L | - | - | - | RNP1 |
| 003 | TF | SA612 | - | 241 (231.7) | -9.3 | 5.0 | - | - | - | - | RNP1 |
| 004 | TF | UWE | - | 202 (192.4) | -9.3 | 70.0 | - | - | - | - | RNP1 |

RWY24

| 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 | - | - | 241 (231.8) | -9.3 | - | - | +1200 | - | - | RNP1 |
| 002 | DF | LELIK | - | - | -9.3 | - | - | - | - | - | RNP1 |
| 003 | TF | UWE | - | 202 (192.3) | -9.3 | 60.4 | - | - | - | - | RNP1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates |
|---------------------|------------------------|
| SA611 | 404829.9N / 1403551.2E |
| SA612 | 404524.2N / 1403040.7E |
| LELIK | 403600.4N / 1402757.9E |
| UWE | 393701.7N / 1401113.0E |

CHANGE : PROC renamed. LELIK established. SA411 abolished. Waypoint Coordinates added.

STANDARD ARRIVAL CHART-INSTRUMENT

RJSA / AOMORI

STAR

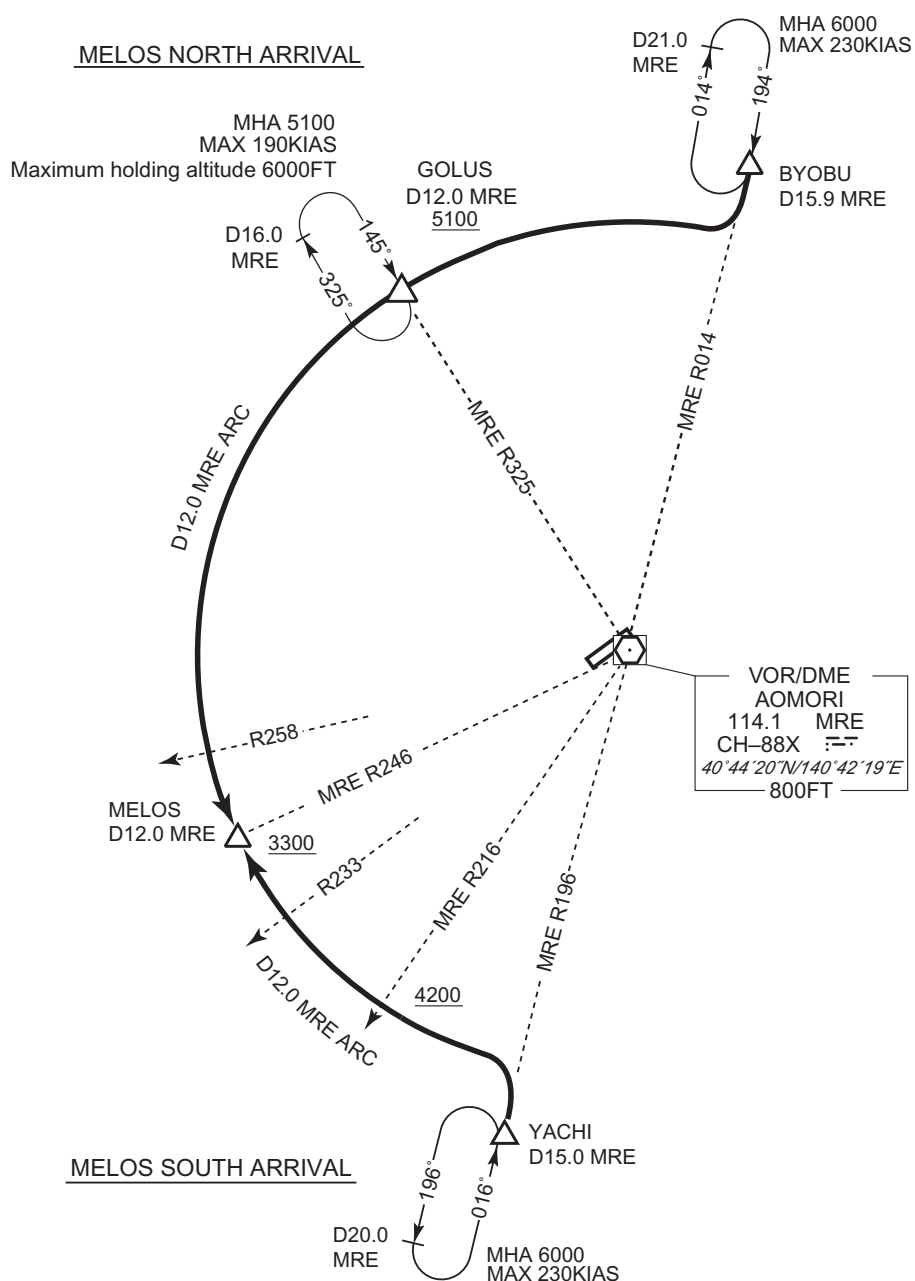
MELOS NORTH ARRIVAL

From over BYOBU, proceed via MRE 12.0DME counterclockwise ARC to MELOS via GOLUS.
Cross GOLUS at or above 5100FT, cross MELOS at or above 3300FT.

MELOS SOUTH ARRIVAL

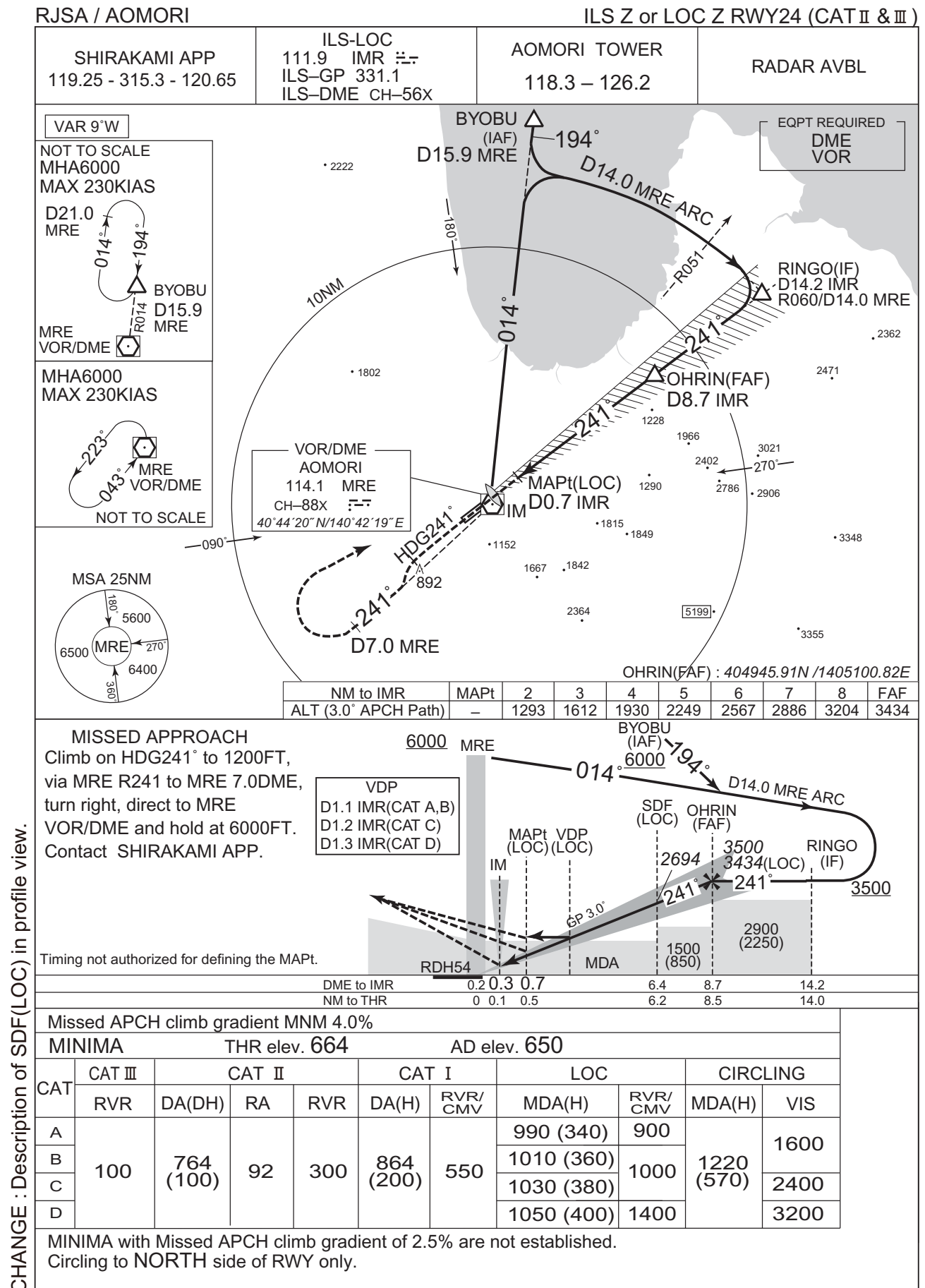
From over YACHI, proceed via MRE 12.0DME clockwise ARC to MELOS.
Cross MRE R216 at or above 4200FT.
Cross MELOS at or above 3300FT.

CHANGE : PROC course(MELOS NORTH ARRIVAL). GOLUS established.



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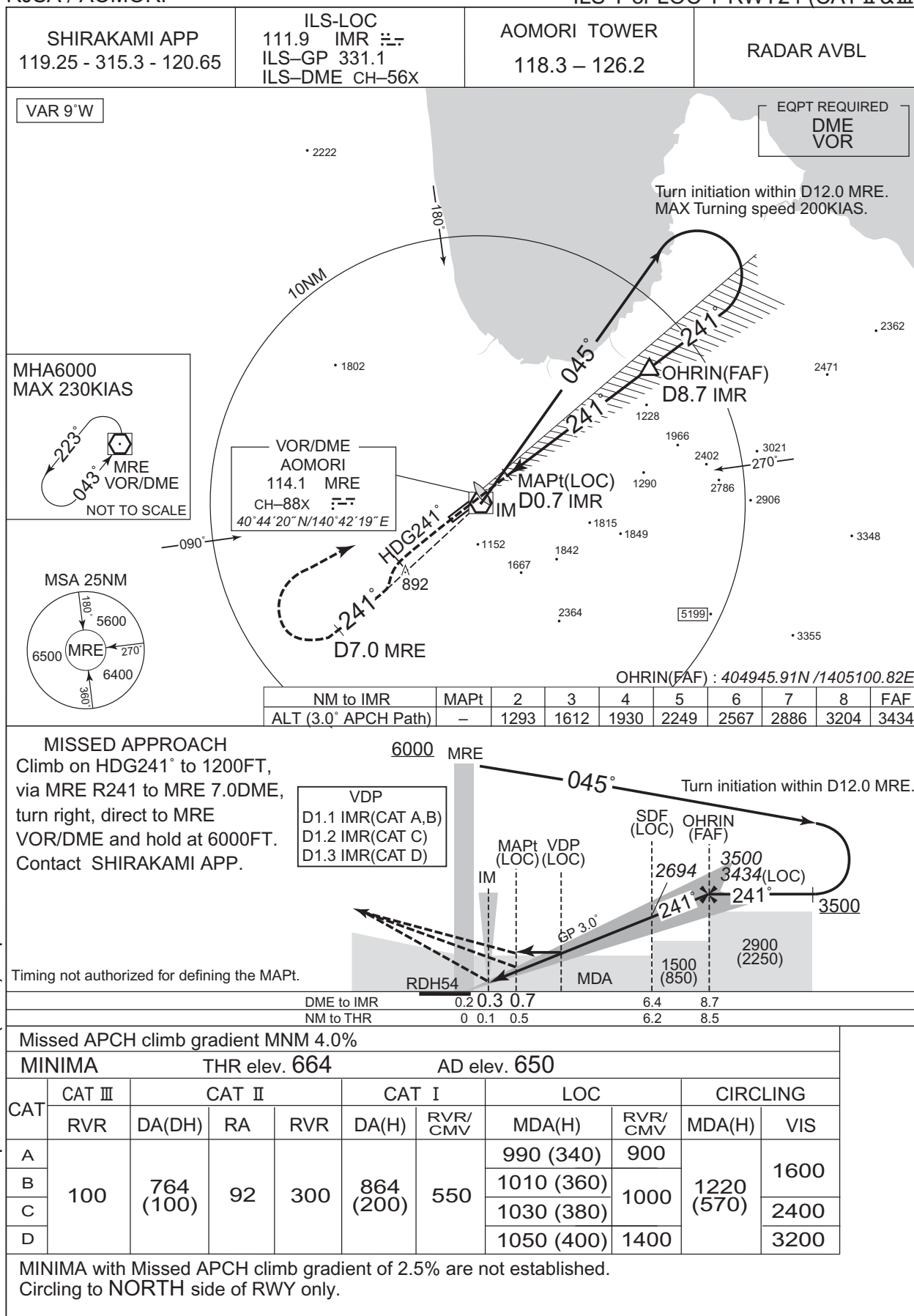
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

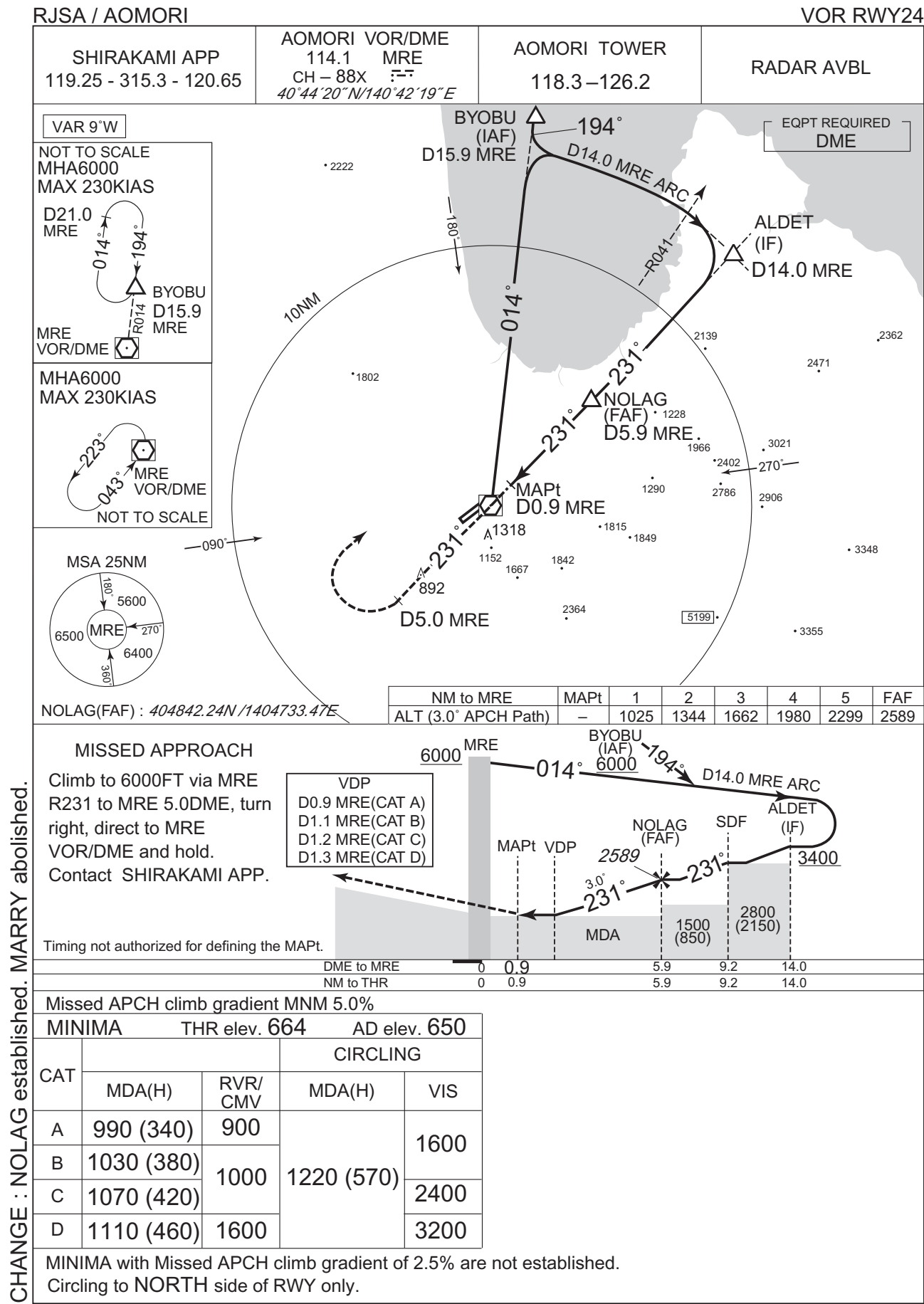
RJSA / AOMORI

ILS Y or LOC Y RWY24 (CAT II & III)

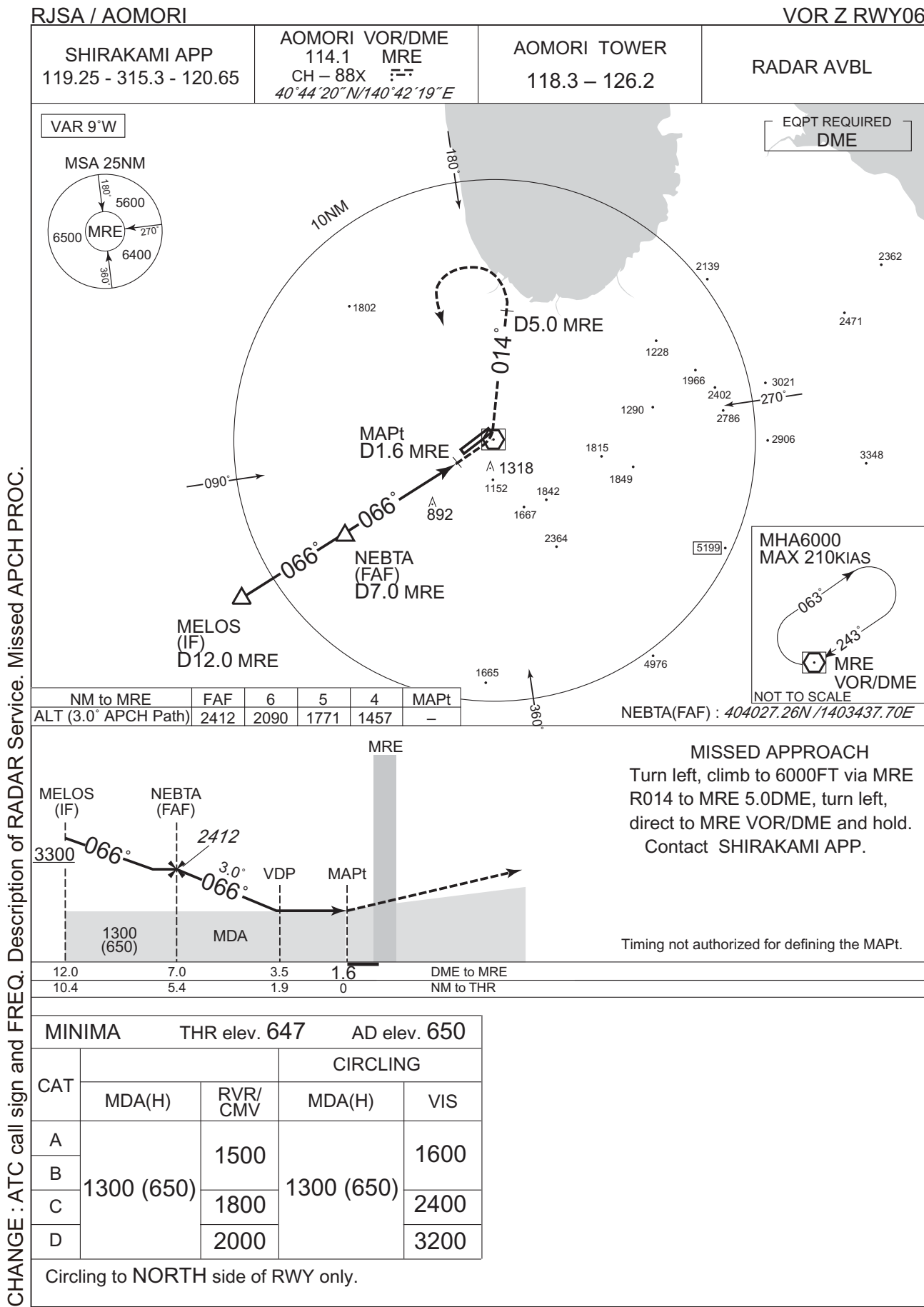


CHANGE : Description of SDF(LOC) in profile view.

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

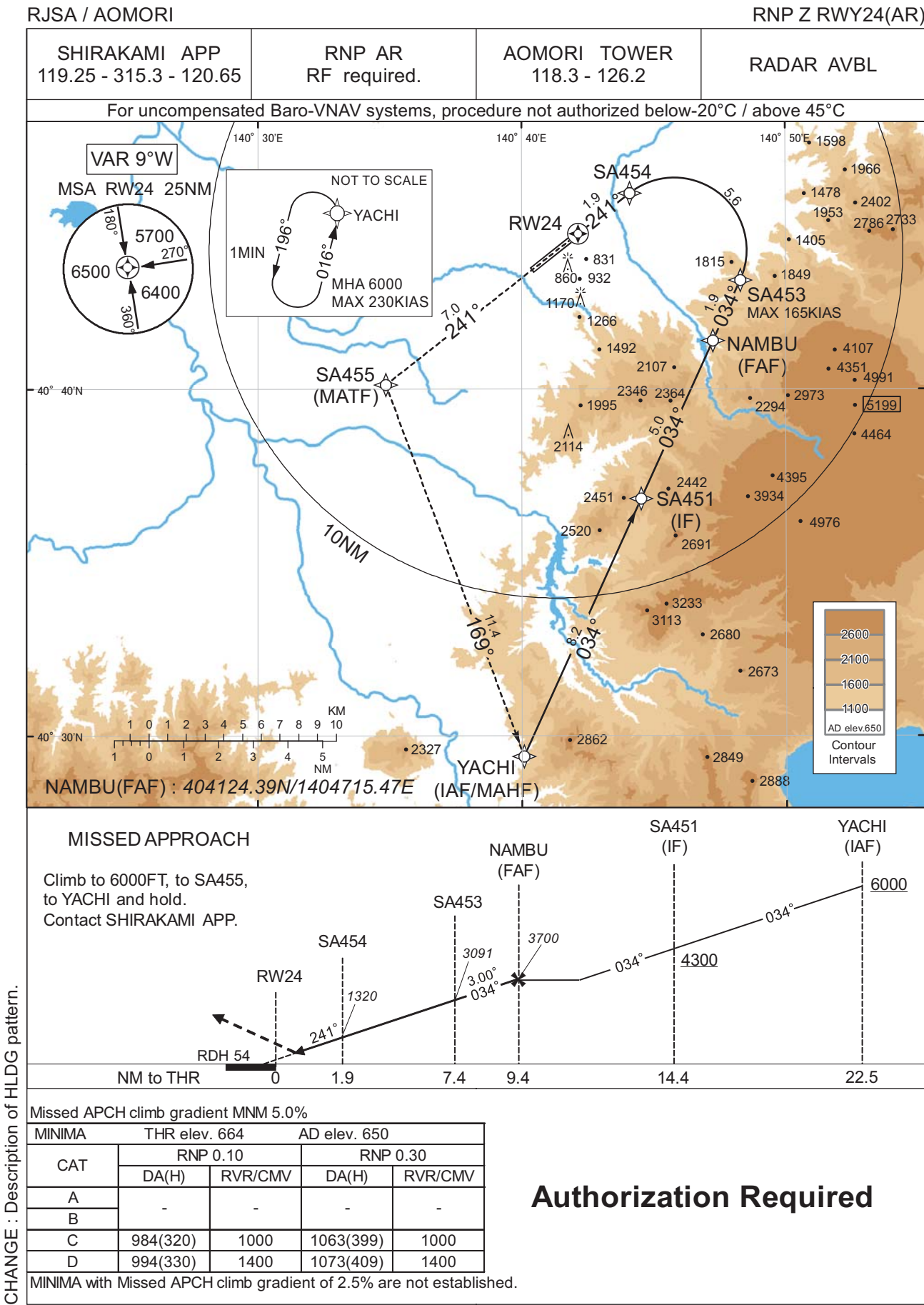


CHANGE : ATC call sign and FREQ. Description of RADAR Service. Missed APCH PROC.

CHANGE : ATC call sign and FREQ. Description of RADAR Service. Missed APCH PROC.



INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJSA / AOMORI

RNP Z RWY24(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 | YACHI | - | - | -9.3 | - | - | +6000 | - | - | - |
| 002 | TF | SA451 | - | 034 (024.4) | -9.3 | 8.2 | - | +4300 | - | - | 1.0 |
| 003 | TF | NAMBU | - | 034 (024.5) | -9.3 | 5.0 | - | 3700 | - | - | 1.0 |
| 004 | TF | SA453 | - | 034 (024.5) | -9.3 | 1.9 | - | 3091 | -165 | -3.00 | 0.10 0.30 |
| 005 | RF Center: SARF1 r=2.09NM | SA454 | - | - | -9.3 | 5.6 | L | 1320 | - | -3.00 | 0.10 0.30 |
| 006 | TF | RW24 | Y | 241 (231.8) | -9.3 | 1.9 | - | 718 | - | -3.00/54 | 0.10 0.30 |
| 007 | TF | SA455 | - | 241 (231.8) | -9.3 | 7.0 | - | - | - | - | 1.0 |
| 008 | TF | YACHI | - | 169 (159.7) | -9.3 | 11.4 | - | 6000 | - | - | 1.0 |

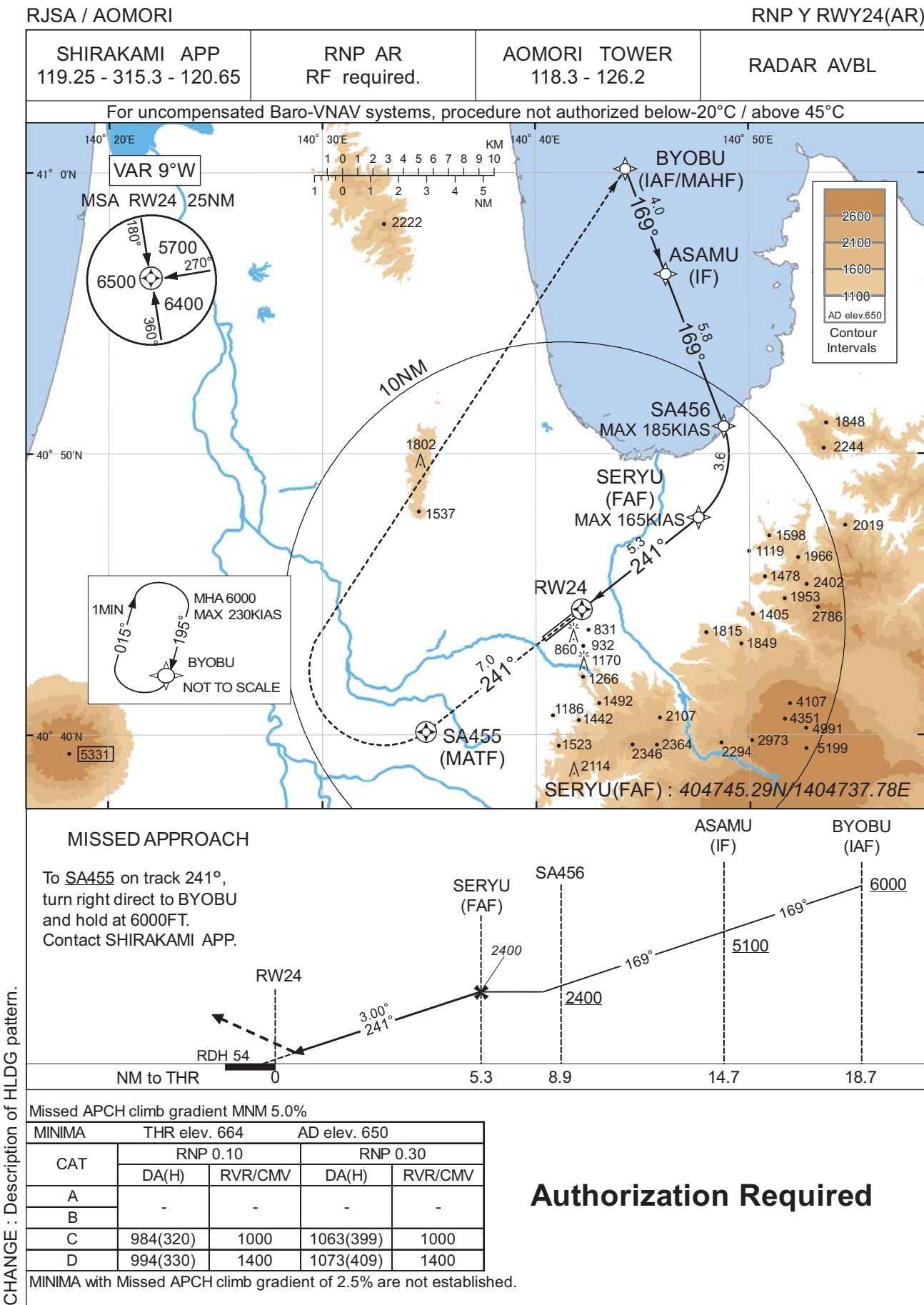
| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | RNP Value |
|------|---------------------|-----------------------|--------------------|---------------------|----------------|-----------------------|-----------------------|---------------|-----------|
| Hold | YACHI | 016 (006.5) | -9.3 | 1.0 (-14000) | L | 6000 | FL140 | -230 (-14000) | 1.0 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|--------------------------|--------------------------|--------------------------|
| YACHI | 402925.44N / 1404004.97E | SARF1 | 404400.99N / 1404548.34E |
| SA451 | 403651.24N / 1404431.58E | | |
| NAMBU | 404124.39N / 1404715.47E | | |
| SA453 | 404308.85N / 1404818.25E | | |
| SA454 | 404539.74N / 1404406.71E | | |
| RW24 | 404429.79N / 1404209.27E | | |
| SA455 | 404008.45N / 1403451.64E | | |

CHANGE : PROC course. VAR. RNAV HLDG established(YACHI).

INSTRUMENT APPROACH CHART



CHANGE : Description of HLDG pattern.

INSTRUMENT APPROACH CHART

RJSA / AOMORI

RNP Y RWY24(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 | BYOBU | - | - | -9.3 | - | - | +6000 | - | - | - |
| 002 | TF | ASAMU | - | 169 (159.3) | -9.3 | 4.0 | - | +5100 | - | - | 1.0 |
| 003 | TF | SA456 | - | 169 (159.3) | -9.3 | 5.8 | - | +2400 | -185 | - | 0.3 |
| 004 | RF Center: SARF3 r=2.83NM | SERYU | - | - | -9.3 | 3.6 | R | 2400 | -165 | - | 0.3 |
| 005 | TF | RW24 | Y | 241 (231.9) | -9.3 | 5.3 | - | 718 | - | -3.00/54 | 0.10 0.30 |
| 006 | CF | SA455 | Y | 241 (231.8) | -9.3 | 7.0 | - | - | - | - | 1.0 |
| 007 | DF | BYOBU | - | - | -9.3 | - | R | 6000 | - | - | 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 | BYOBU | 195 (185.2) | -9.3 | 1.0 (-14000) | R | 6000 | FL140 | -230 (-14000) | 1.0 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|--------------------------|--------------------------|--------------------------|
| BYOBU | 410009.54N / 1404414.25E | SARF3 | 404959.39N / 1404519.70E |
| ASAMU | 405624.95N / 1404606.79E | | |
| SA456 | 405059.78N / 1404849.32E | | |
| SERYU | 404745.29N / 1404737.78E | | |
| RW24 | 404429.79N / 1404209.27E | | |
| SA455 | 404008.45N / 1403451.64E | | |

CHANGE : PROC course. VAR. RNAV HLDG established(BYOBU).

RJSA / AOMORI

| | | | |
|--|------------------------|-------------------------------|------------|
| SHIRAKAMI APP 119.25 - 315.3 - 120.65 | RNP AR RF required. | AOMORI TOWER 118.3 - 126.2 | RADAR AVBL |
|--|------------------------|-------------------------------|------------|

VAR 9°W

MSA RW06 25NM

180° 360°

6500 6400

NOT TO SCALE

196° 016°

1MIN

YACHI

MHA 6000

MAX 230KIAS

SA675

SA674

SA673

SA676

SA677

SA671 (IF)

YACHI (IAF/MAHE)

LEBIL (FAF)

061°/1.9

1200

860

1170

952

1266

1492

1523

1995

2346

2364

2451

2520

2691

3233

3113

2862

2327

1138

2175

2599

2835

3131

2600

2100

1600

1100

AD elev.650

Contour Intervals

10NM

140° 20'E

140° 30'E

140° 40'E

40° 40'N

40° 30'N

LEBIL(FAF) : 403812.40N/1403802.88E

MISSED APPROACH

From RW06 on track 061°, at or above 1200FT turn left, direct to SA675, to SA676, to SA677, to YACHI and hold at 6000FT. Contact SHIRAKAMI APP.

| MINIMA | | | | |
|---------------|-----------|--------------|-----------|---------|
| THR elev. 647 | | AD elev. 650 | | |
| CAT | RNP 0.10 | | RNP 0.30 | |
| | DA(H) | RVR/CMV | DA(H) | RVR/CMV |
| A | - | - | - | - |
| B | - | - | - | - |
| C | 1004(357) | 1400 | 1039(392) | 1400 |
| D | 1014(367) | 1600 | 1049(402) | 1600 |

Authorization Required

INSTRUMENT APPROACH CHART

RJSA / AOMORI

RNP Z RWY06(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 | YACHI | - | - | -9.3 | - | - | +6000 | - | - | - |
| 002 | TF | SA671 | - | 359 (350.0) | -9.3 | 4.0 | - | +4000 | - | - | 1.0 |
| 003 | TF | LEBIL | - | 359 (350.0) | -9.3 | 4.9 | - | 2700 | - | - | 1.0 |
| 004 | TF | SA673 | - | 359 (350.0) | -9.3 | 2.3 | - | 1983 | -165 | -3.00 | 0.10 0.30 |
| 005 | RF Center: SARF2 r=1.95NM | SA674 | - | - | -9.3 | 2.1 | R | 1312 | - | -3.00 | 0.10 0.30 |
| 006 | TF | RW06 | Y | 061 (051.8) | -9.3 | 1.9 | - | 697 | - | -3.00/50 | 0.10 0.30 |
| 007 | FA | - | - | 061 (051.8) | -9.3 | - | - | +1200 | - | - | 1.0 |
| 008 | DF | SA675 | - | - | -9.3 | - | L | - | - | - | 1.0 |
| 009 | TF | SA676 | - | 241 (231.7) | -9.3 | 9.0 | - | - | - | - | 1.0 |
| 010 | TF | SA677 | - | 151 (141.8) | -9.3 | 9.0 | - | - | - | - | 1.0 |
| 011 | TF | YACHI | - | 126 (117.1) | -9.3 | 6.6 | - | 6000 | - | - | 1.0 |

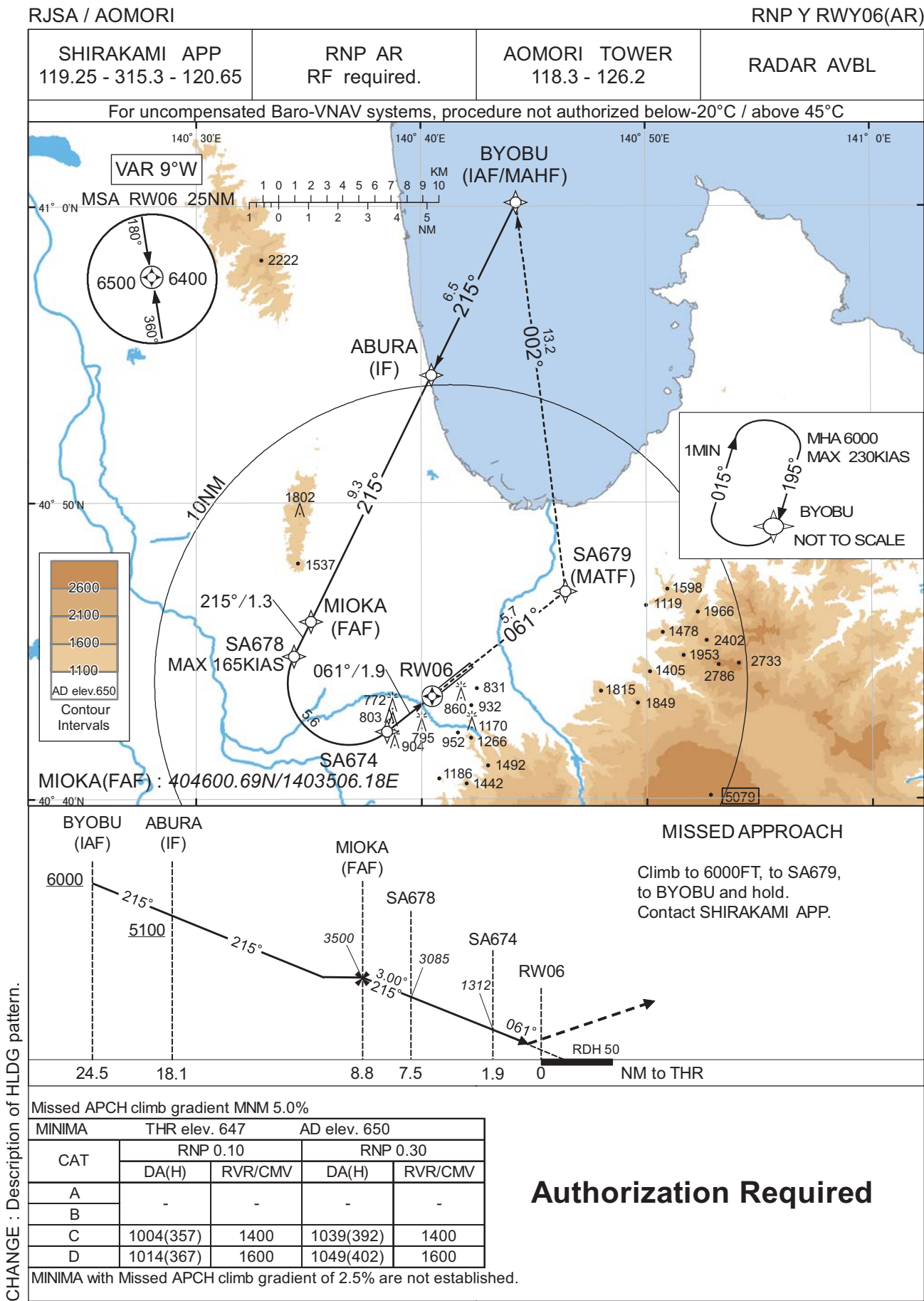
| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | RNP Value |
|------|---------------------|-----------------------|--------------------|---------------------|----------------|-----------------------|-----------------------|------------------|-----------|
| Hold | YACHI | 016 (006.5) | -9.3 | 1.0 (-14000) | L | 6000 | FL140 | -230 (-14000) | 1.0 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|--------------------------|--------------------------|--------------------------|
| YACHI | 402925.44N / 1404004.97E | SARF2 | 404045.88N / 1404003.56E |
| SA671 | 403322.04N / 1403910.22E | | |
| LEBIL | 403812.40N / 1403802.88E | | |
| SA673 | 404025.48N / 1403731.96E | | |
| SA674 | 404218.09N / 1403828.52E | | |
| RW06 | 404329.77N / 1404028.61E | | |
| SA675 | 404504.89N / 1403421.94E | | |
| SA676 | 403930.44N / 1402503.91E | | |
| SA677 | 403225.82N / 1403222.79E | | |

CHANGE : LEBIL established. GENOA abolished.

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJSA / AOMORI

RNP Y RWY06(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 | BYOBU | - | - | -9.3 | - | - | +6000 | - | - | - |
| 002 | TF | ABURA | - | 215 (206.1) | -9.3 | 6.5 | - | +5100 | - | - | 1.0 |
| 003 | TF | MIOKA | - | 215 (206.0) | -9.3 | 9.3 | - | 3500 | - | - | 1.0 |
| 004 | TF | SA678 | - | 215 (206.0) | -9.3 | 1.3 | - | 3085 | -165 | -3.00 | 0.10 0.30 |
| 005 | RF Center: SARF4 r=2.07NM | SA674 | - | - | -9.3 | 5.6 | L | 1312 | - | -3.00 | 0.10 0.30 |
| 006 | TF | RW06 | Y | 061 (051.8) | -9.3 | 1.9 | - | 697 | - | -3.00/50 | 0.10 0.30 |
| 007 | TF | SA679 | - | 061 (051.8) | -9.3 | 5.7 | - | - | - | - | 1.0 |
| 008 | TF | BYOBU | - | 002 (352.9) | -9.3 | 13.2 | - | 6000 | - | - | 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 | BYOBU | 195 (185.2) | -9.3 | 1.0 (-14000) | R | 6000 | FL140 | -230 (-14000) | 1.0 |

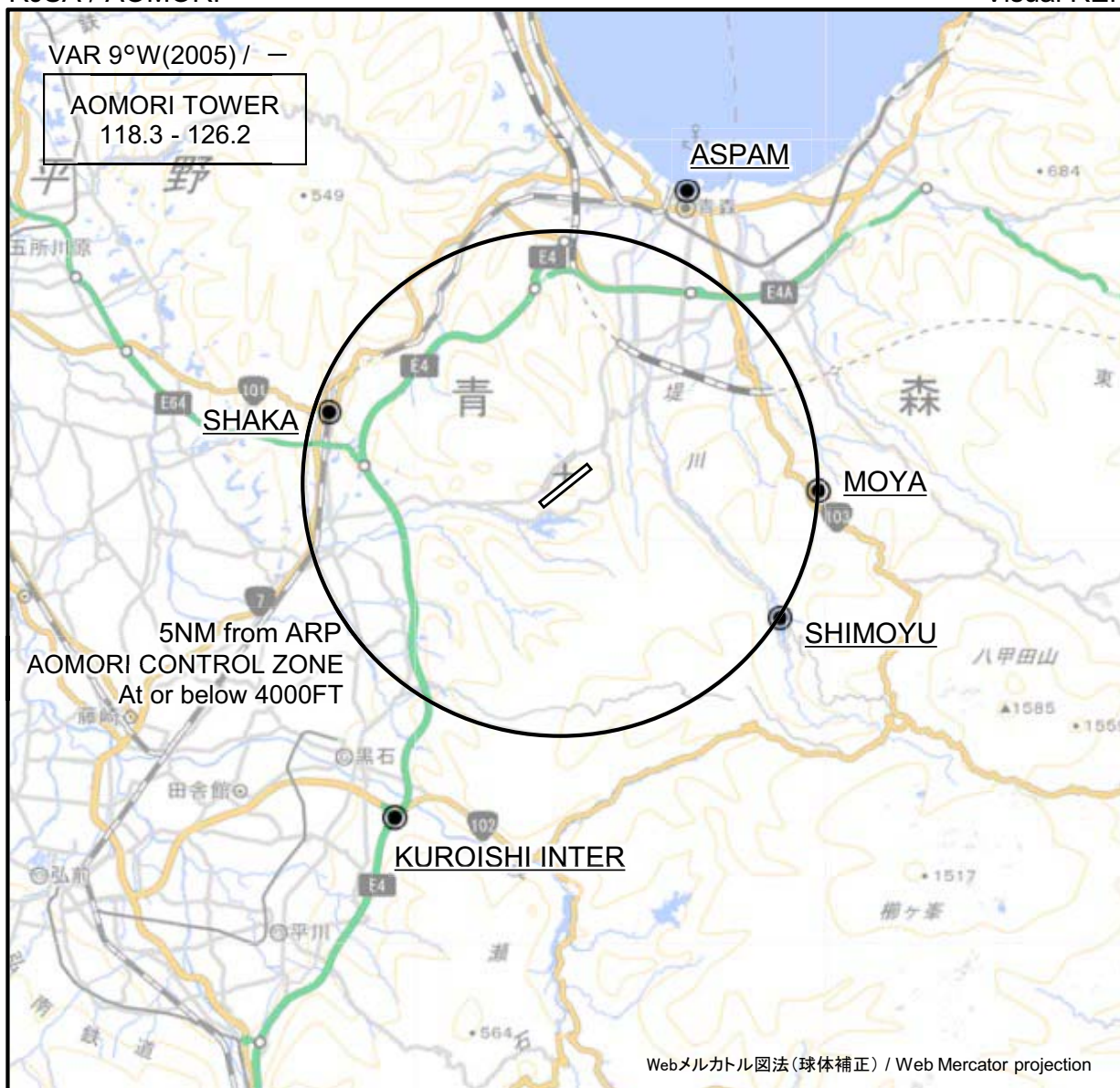
Waypoint Coordinates

| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|--------------------------|--------------------------|--------------------------|
| BYOBU | 410009.54N / 1404414.25E | SARF4 | 404355.81N / 1403647.71E |
| ABURA | 405419.99N / 1404028.03E | | |
| MIOKA | 404600.69N / 1403506.18E | | |
| SA678 | 404450.39N / 1403420.99E | | |
| SA674 | 404218.09N / 1403828.52E | | |
| RW06 | 404329.77N / 1404028.61E | | |
| SA679 | 404701.68N / 1404624.34E | | |

CHANGE : VAR. RNAV HLDG established(BYOBU).

RJSA / AOMORI

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 |
|--------------------------|---------------------|-----------------------------------|
| アスパム Aspam | 022°T / 6.3NM | アスパム, 三角形のビル ASPAM, Triangular |
| 釈迦 Shaka | 287°T / 4.8NM | JR大釈迦駅 JR Station |
| 雲谷 Moya | 092°T / 5.0NM | 雲谷スキー場 Moya Slope |
| 下湯 Shimoyu | 123°T / 5.0NM | 下湯平成湖 Lake |
| 黒石インター Kuroishi Inter | 206°T / 7.4NM | 東北自動車道黒石インター Intersection |



RJSA / AOMORI

Minimum Vectoring Altitude CHART

CHANGE : Update.

