

AD CHART

REMARKS:
RWY GROOVING 3000m x 60m
WIDTH & STRENGTH OF TWY
30m PCN 86/F/C/X/T
N-T 10.5m AUV 11.0t
STRENGTH OF APRON:
PCN 62/R/B/X/T
N-APRON N1-N2 AUV 11.0t
N3-N11 AUV 5.7t/0.68Mpa
MAGNETIC BRG 52°/232°
THR GUND RWY06 : 122.6ft RWY24 : 122.6ft

INS CK point

| | | |
|---|------------|-------------|
| 1 | 404413.68N | 1404118.37E |
| 2 | 404414.96N | 1404120.20E |
| 3 | 404416.50N | 1404122.54E |
| 4 | 404417.75N | 1404124.77E |
| 5 | 404419.15N | 1404126.98E |
| 6 | 404420.45N | 1404128.90E |

INS CK point

| | | |
|---|------------|-------------|
| 1 | 404413.68N | 1404118.37E |
| 2 | 404414.96N | 1404120.20E |
| 3 | 404416.50N | 1404122.54E |
| 4 | 404417.75N | 1404124.77E |
| 5 | 404419.15N | 1404126.98E |
| 6 | 404420.45N | 1404128.90E |

LONGITUDINAL PROFILE OF RWY

| | | | | | |
|----------------------|--------|------|------|-------|-------|
| 648.9ft (197.16m) | 0.5% | 380m | 500m | 1520m | 3000m |
| 653.0ft (199.06m) | 0.032% | | | | |
| 649.6ft (198.00m) | 0.1% | | | | |
| 664.2ft (202.44m) | 0.3% | | | | |

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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.

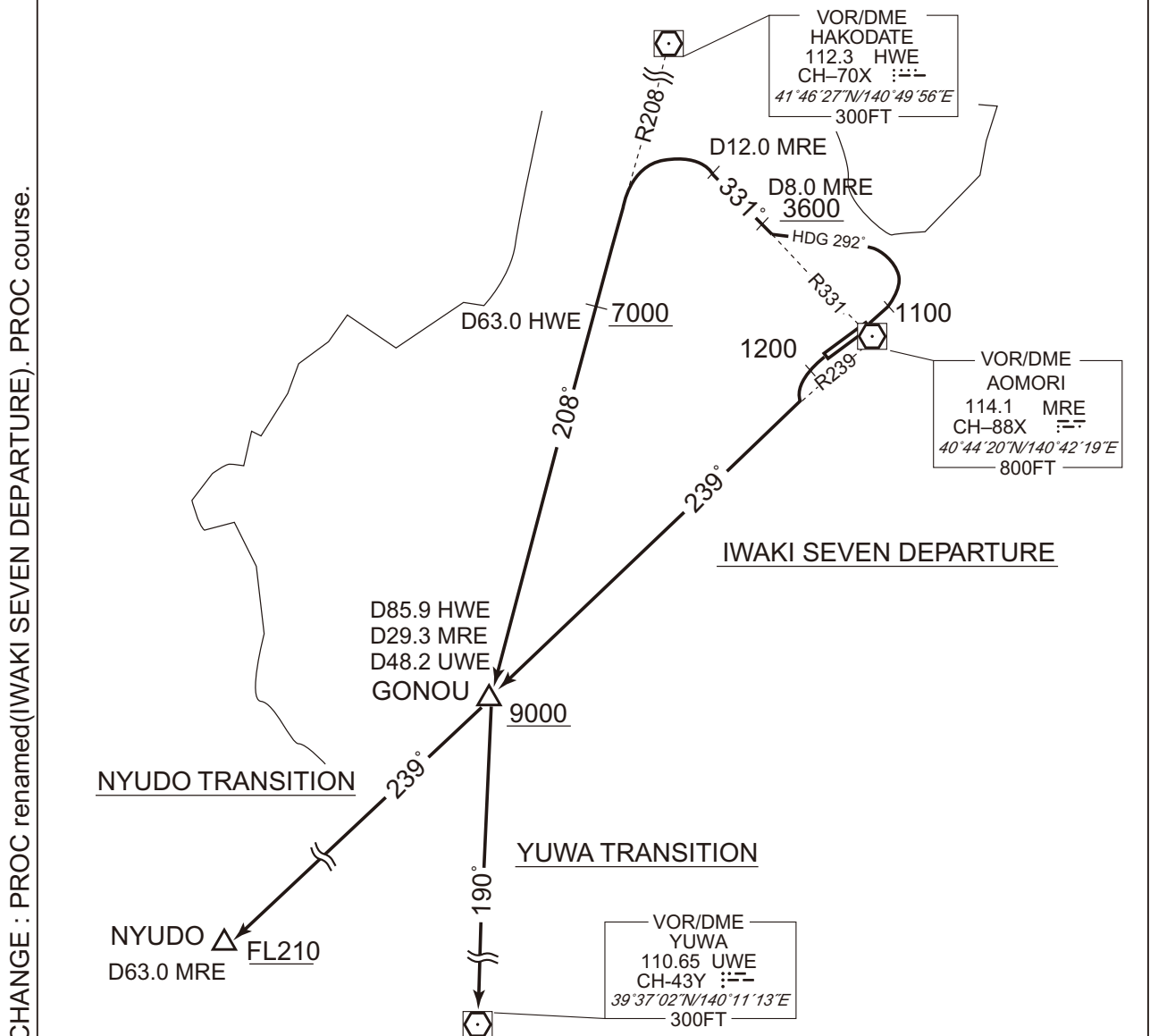
YUWA TRANSITION

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.



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.

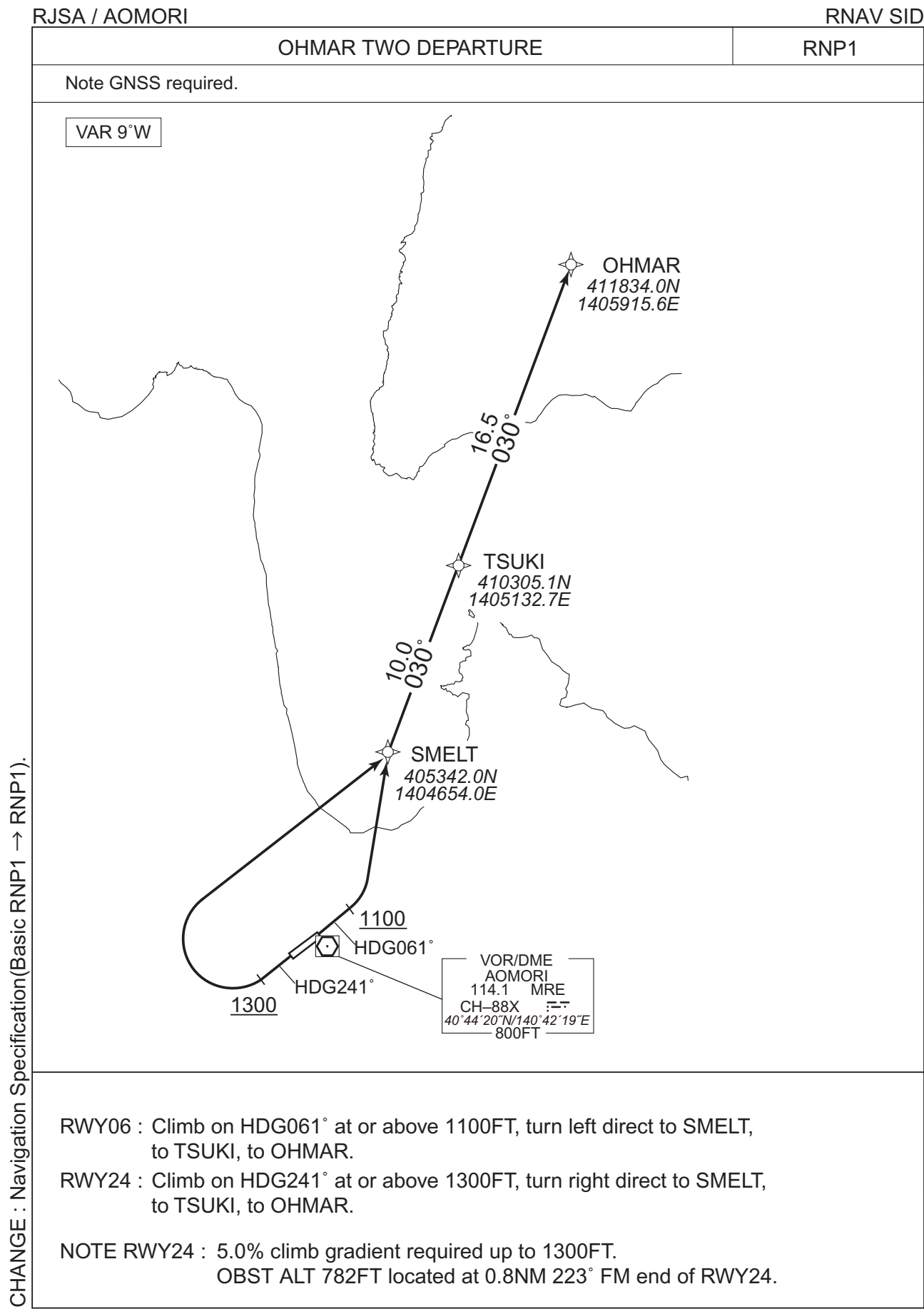
Note RWY24 : 5.0% climb gradient required up to 1200FT.

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



CHANGE : PROC renamed. PROC course.

STANDARD DEPARTURE CHART-INSTRUMENT



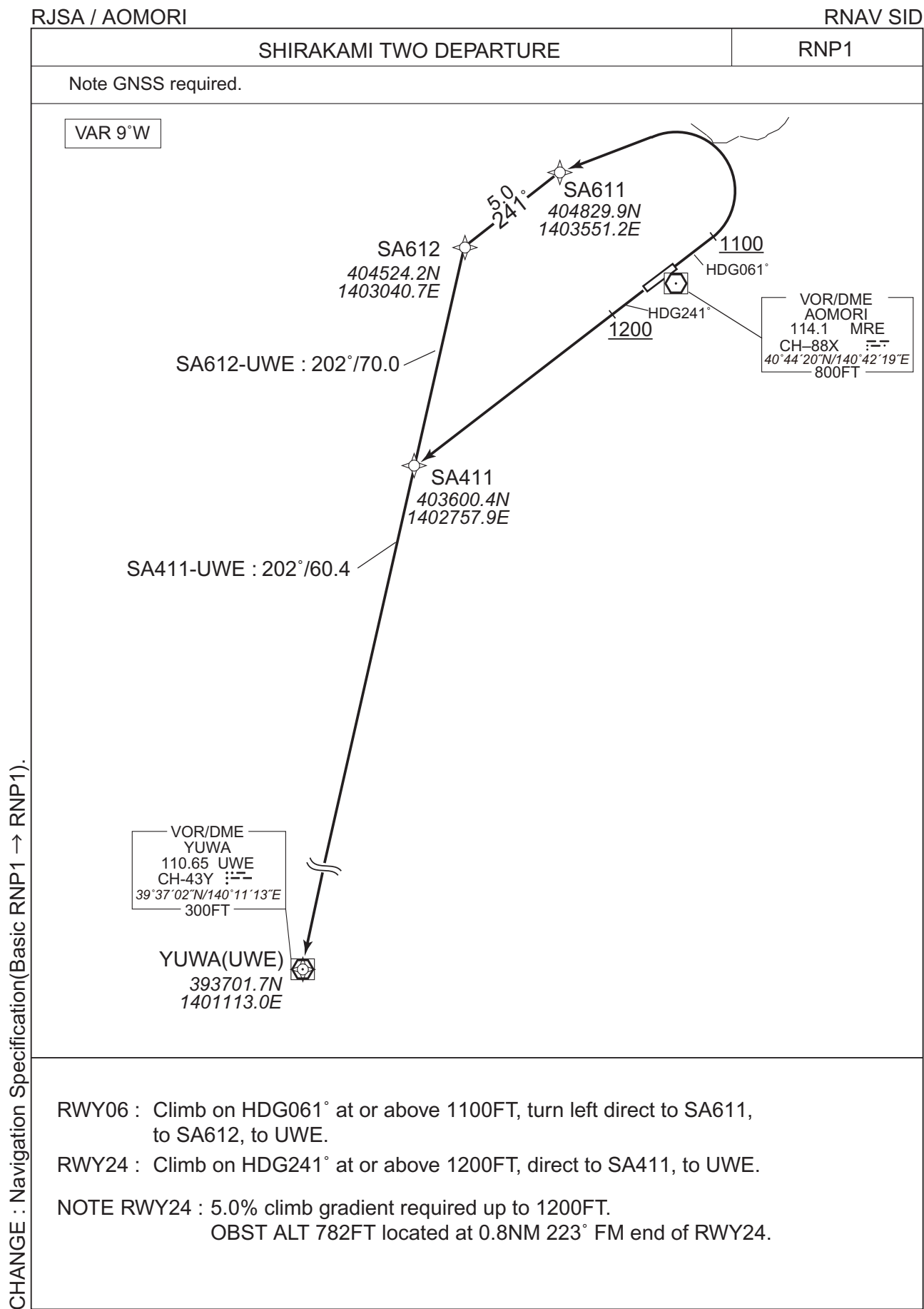
STANDARD DEPARTURE CHART-INSTRUMENT

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 |
| CHANGE : Navigation Specification(Basic RNP1 → RNP1). | | | | | | | | | | | |

STANDARD DEPARTURE CHART-INSTRUMENT



STANDARD DEPARTURE CHART-INSTRUMENT

RJSA / AOMORI

RNAV SID

SHIRAKAMI 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 | 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 | SA411 | - | - | -9.3 | - | - | - | - | - | RNP1 |
| 003 | TF | UWE | - | 202 (192.3) | -9.3 | 60.4 | - | - | - | - | RNP1 |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD ARRIVAL CHART-INSTRUMENT

RJSA / AOMORI

STAR

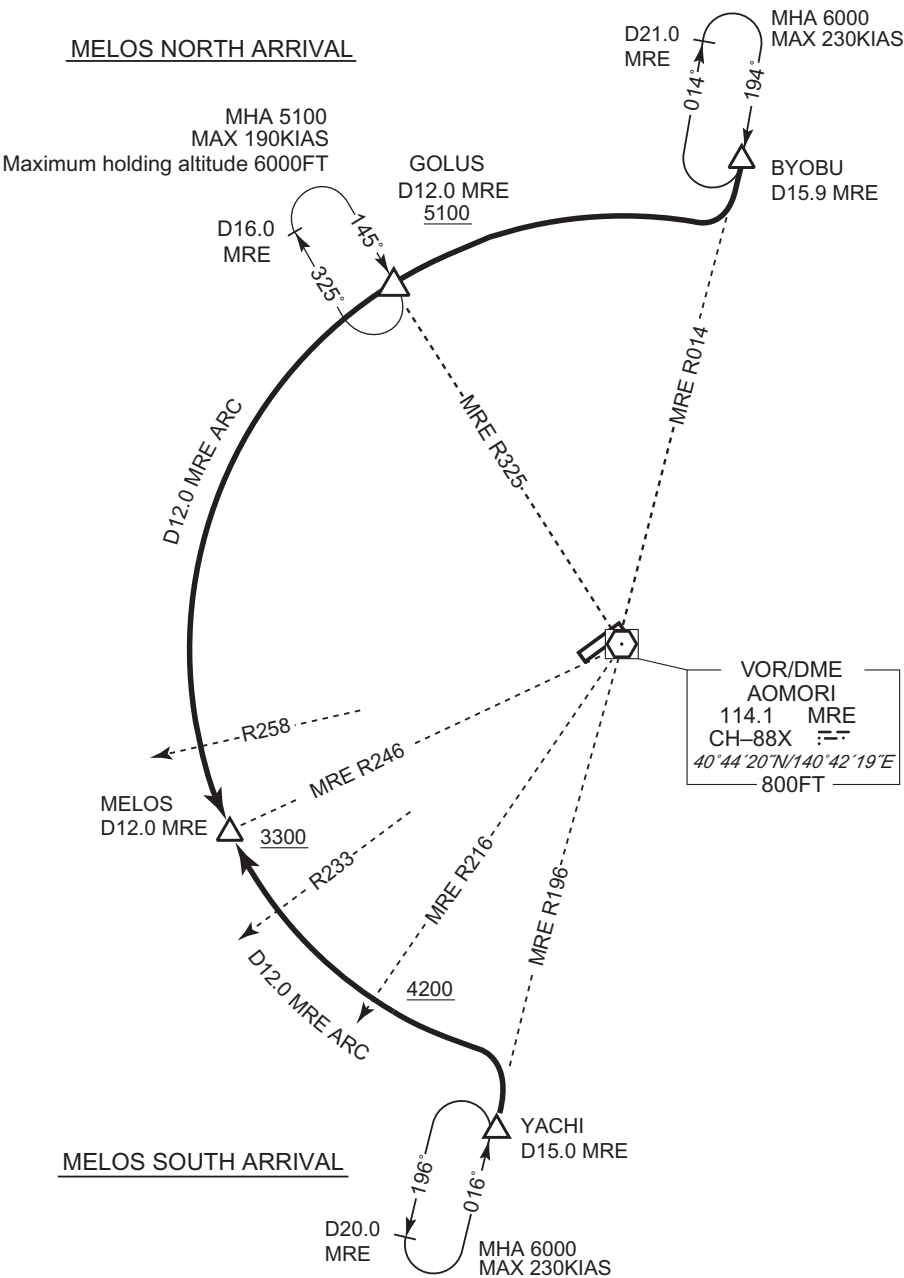
MELOS NORTH ARRIVAL

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

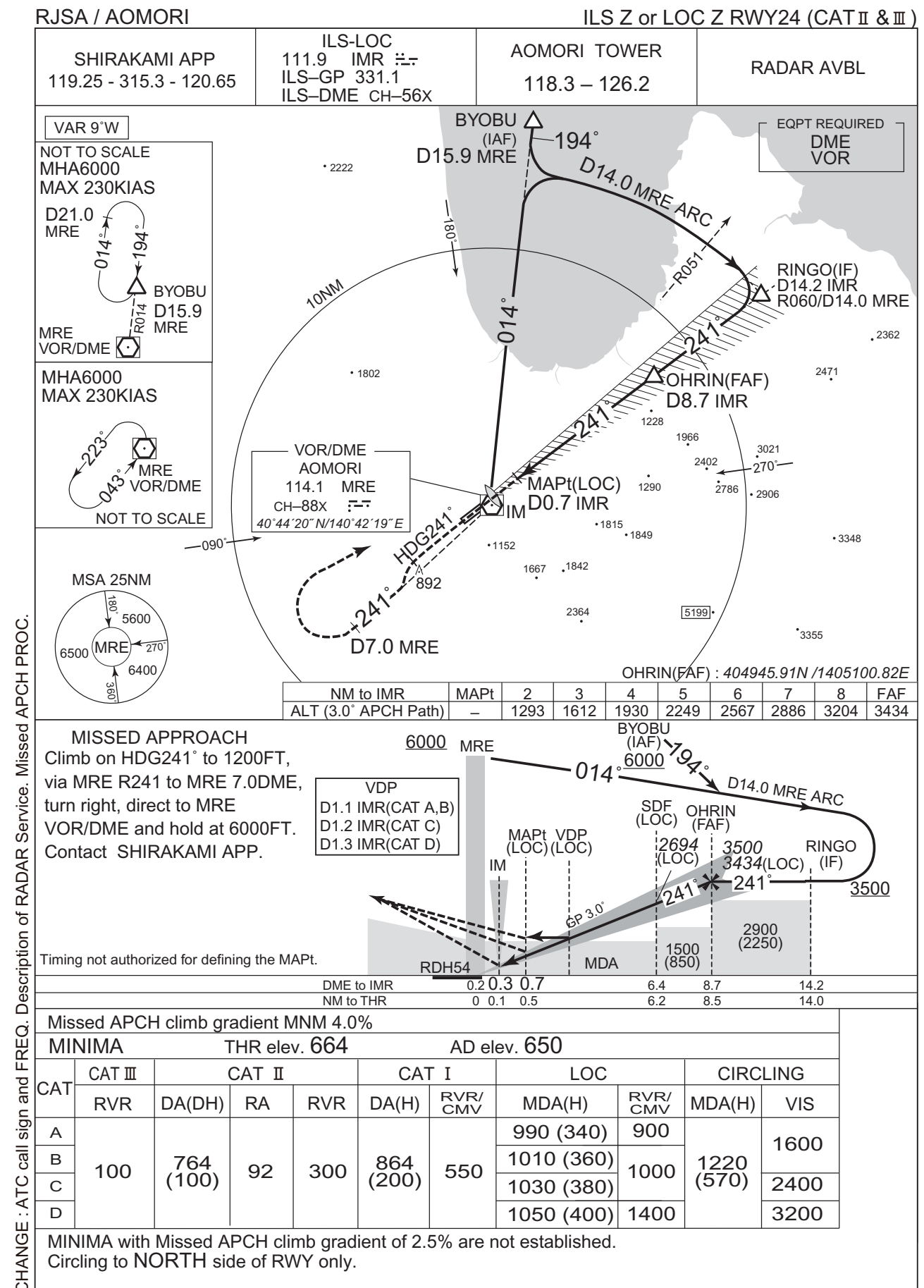
From over YACHI, proceed via MRE 12.0DME clockwise ARC to MELOS.
Cross MRE R216 at or above 4200FT.
Cross MELOS at or above 3300FT.

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



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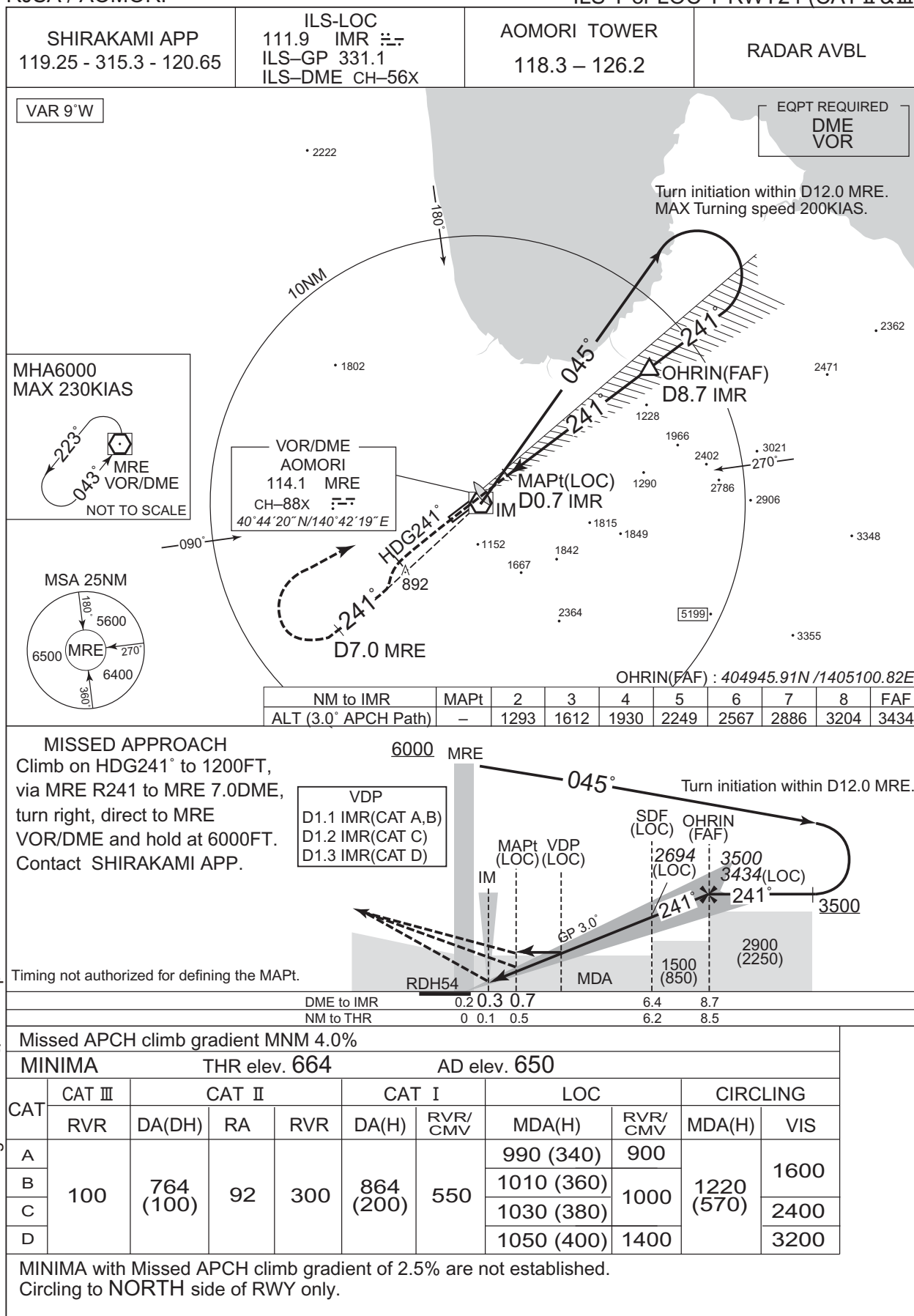
INSTRUMENT APPROACH CHART



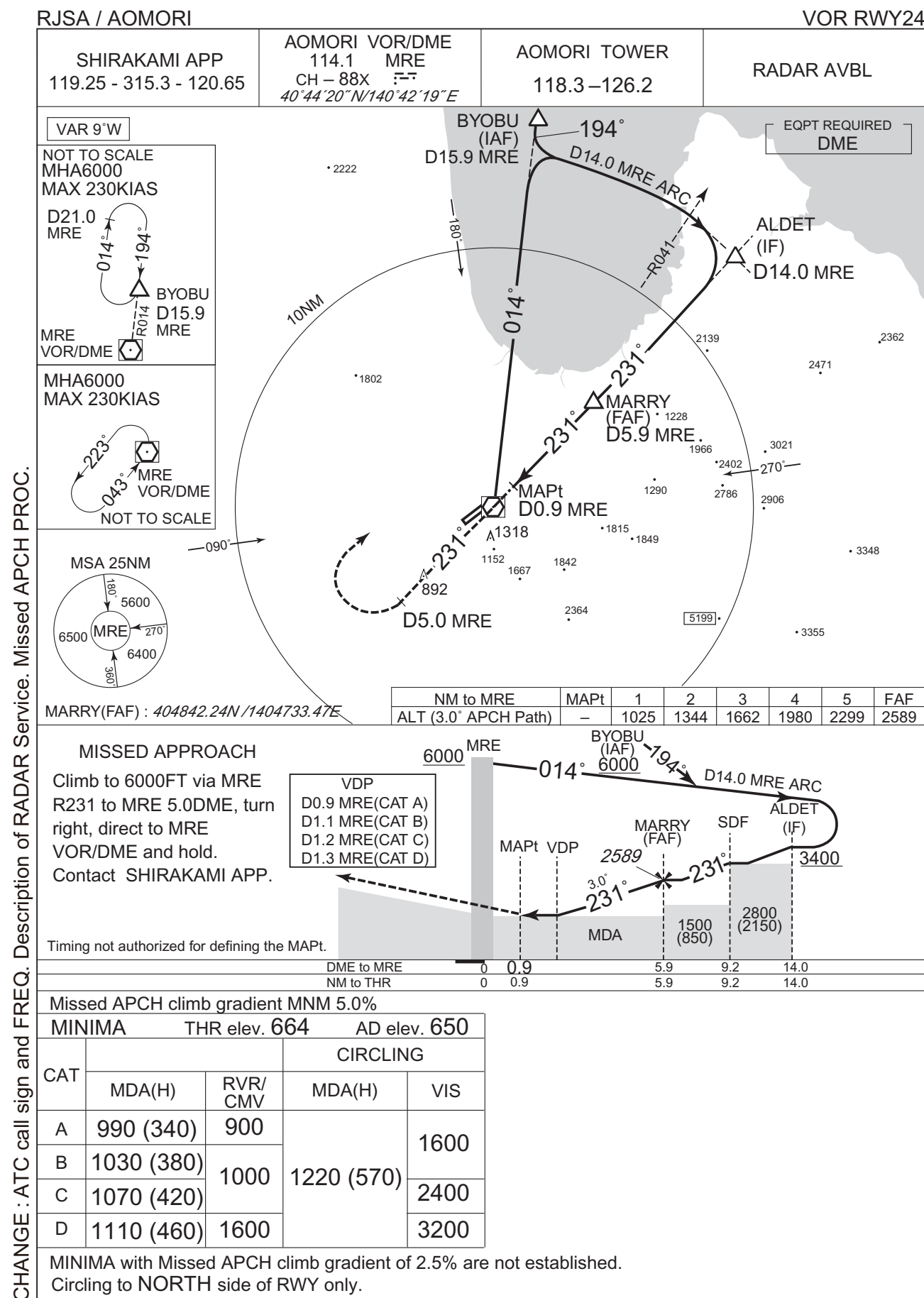
INSTRUMENT APPROACH CHART

RJSA / AOMORI

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



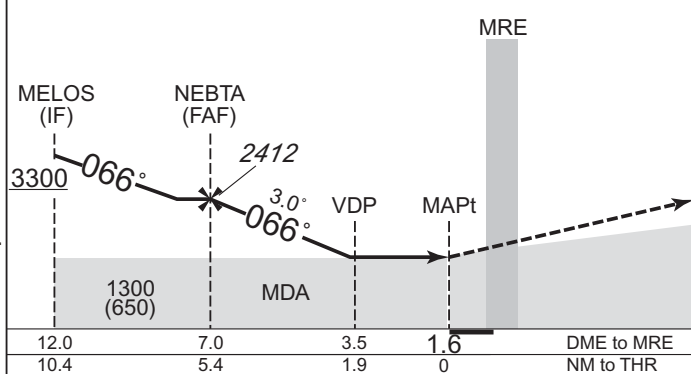
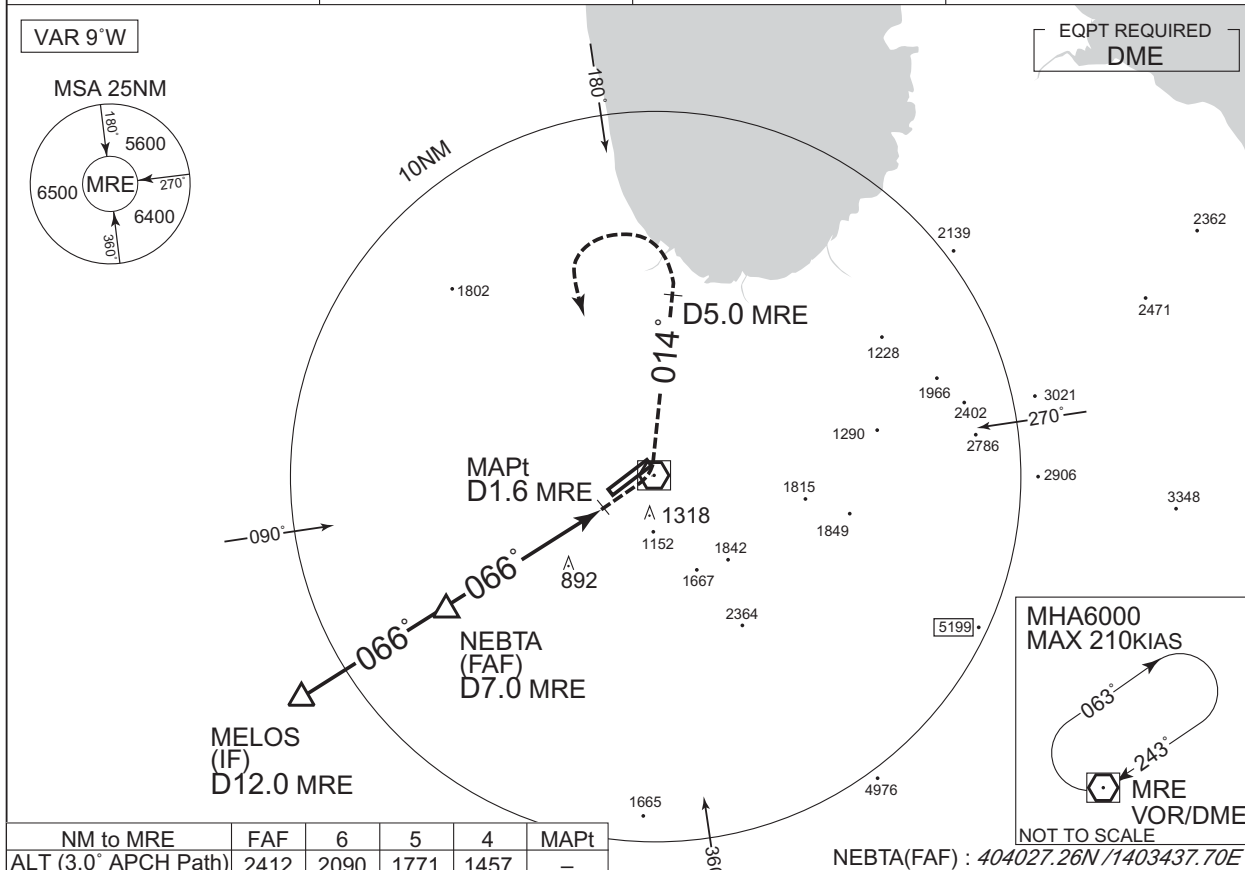
INSTRUMENT APPROACH CHART



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

VOR Z RWY06

| | | | |
|--|--|-------------------------------|------------|
| SHIRAKAMI APP 119.25 - 315.3 - 120.65 | AOMORI VOR/DME 114.1 MRE CH - 88X 57 40°44'20"N/140°42'19"E | AOMORI TOWER 118.3 - 126.2 | RADAR AVBL |
|--|--|-------------------------------|------------|



MISSED APPROACH
Turn left, climb to 6000FT via MRE
R014 to MRE 5.0DME, turn left,
direct to MRE VOR/DME and hold.
Contact SHIRAKAMI APP.

Timing not authorized for defining the MAPt.

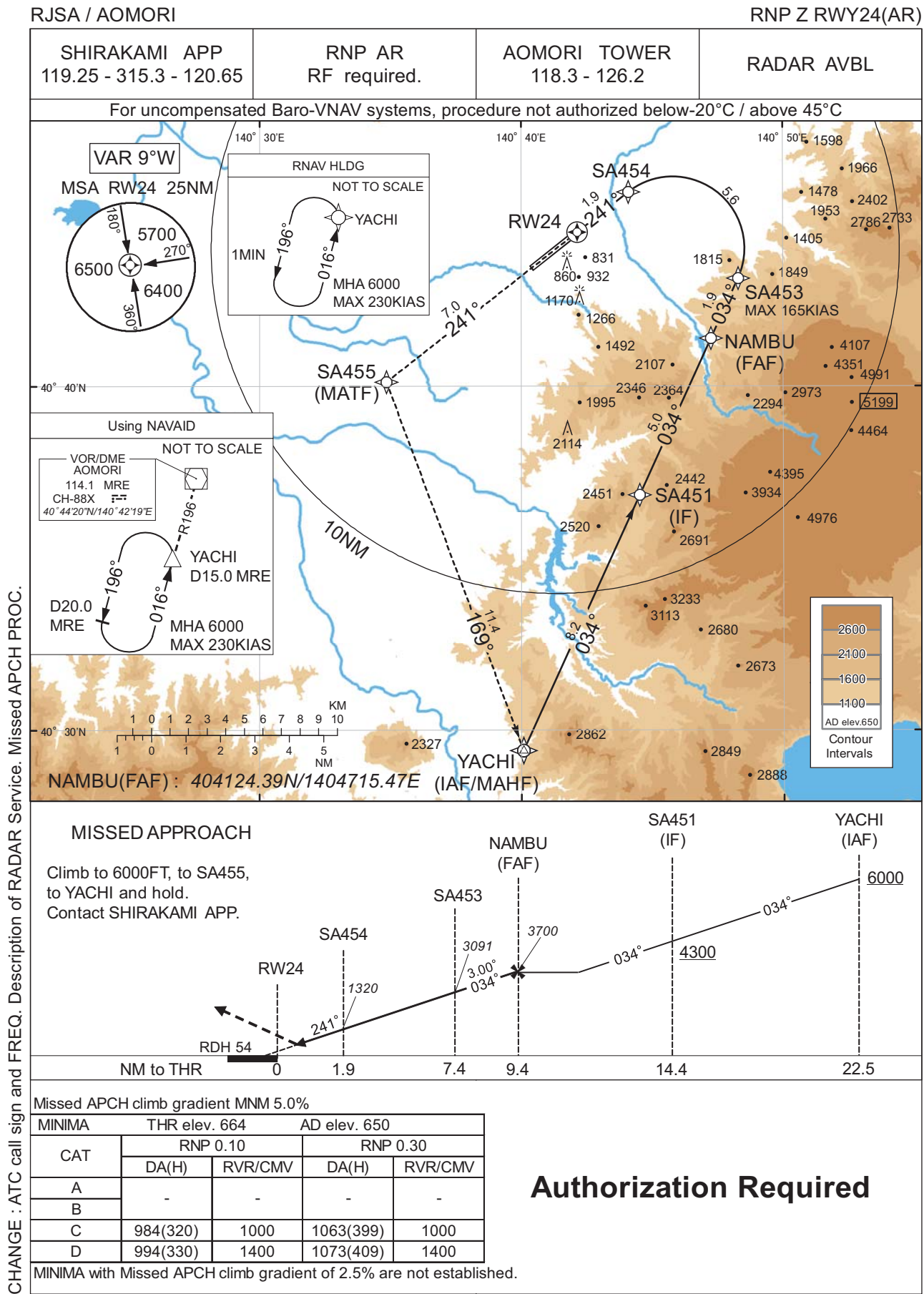
| | | | | |
|--------|------------|---------------|--------------|------|
| MINIMA | | THR elev. 647 | AD elev. 650 | |
| CAT | | | CIRCLING | |
| | MDA(H) | RVR/ CMV | MDA(H) | VIS |
| A | 1300 (650) | 1500 | 1300 (650) | 1600 |
| B | | | | |
| C | | 1800 | | 2400 |
| D | | 2000 | | 3200 |

Circling to NORTH side of RWY only.

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



INSTRUMENT APPROACH CHART



MISSED APPROACH

Climb to 6000FT, to SA455, to YACHI and hold.
Contact SHIRAKAMI APP.

SA454

1320

RDH 54

241°

034°

3091

3700

SA453

7.4

9.4

14.4

22.5

SA451 (IF)

YACHI (IAF)

6000

4300

034°

034°

034°

NM to THR

0

1.9

7.4

9.4

14.4

22.5

Misssed APCH climb gradient MNM 5.0%

| CAT | THR elev. 664 | | AD elev. 650 | |
|-----|---------------|----------|--------------|---------|
| | RNP 0.10 | RNP 0.30 | DA(H) | RVR/CMV |
| A | - | - | - | - |
| B | - | - | - | - |
| C | 984(320) | 1000 | 1063(399) | 1000 |
| D | 994(330) | 1400 | 1073(409) | 1400 |

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

Authorization Required

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 |

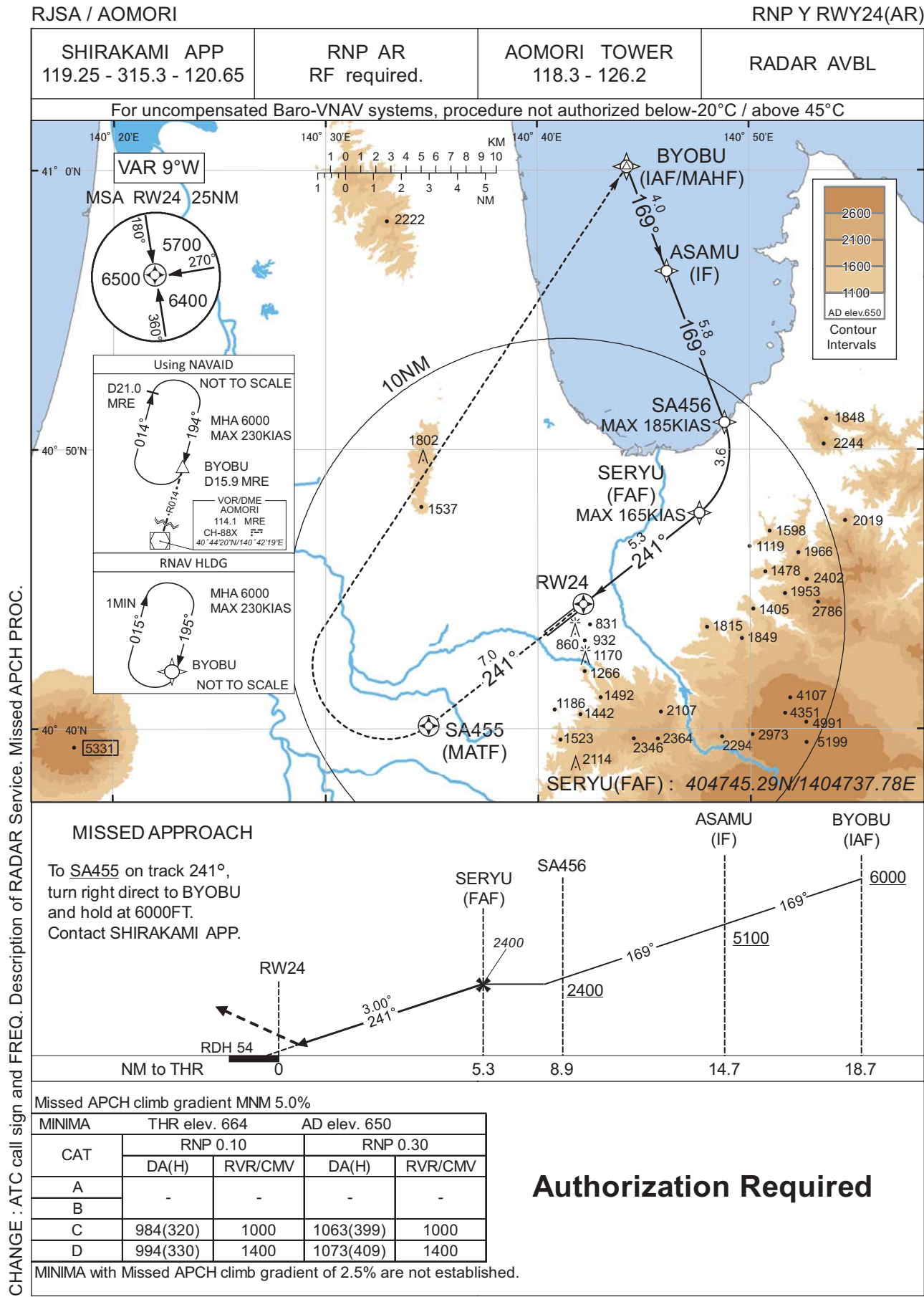
| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | RNP Value |
|------|---------------------|-----------------------|--------------------|---------------------|----------------|-----------------------|-----------------------|---------------|-----------|
| 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



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 |

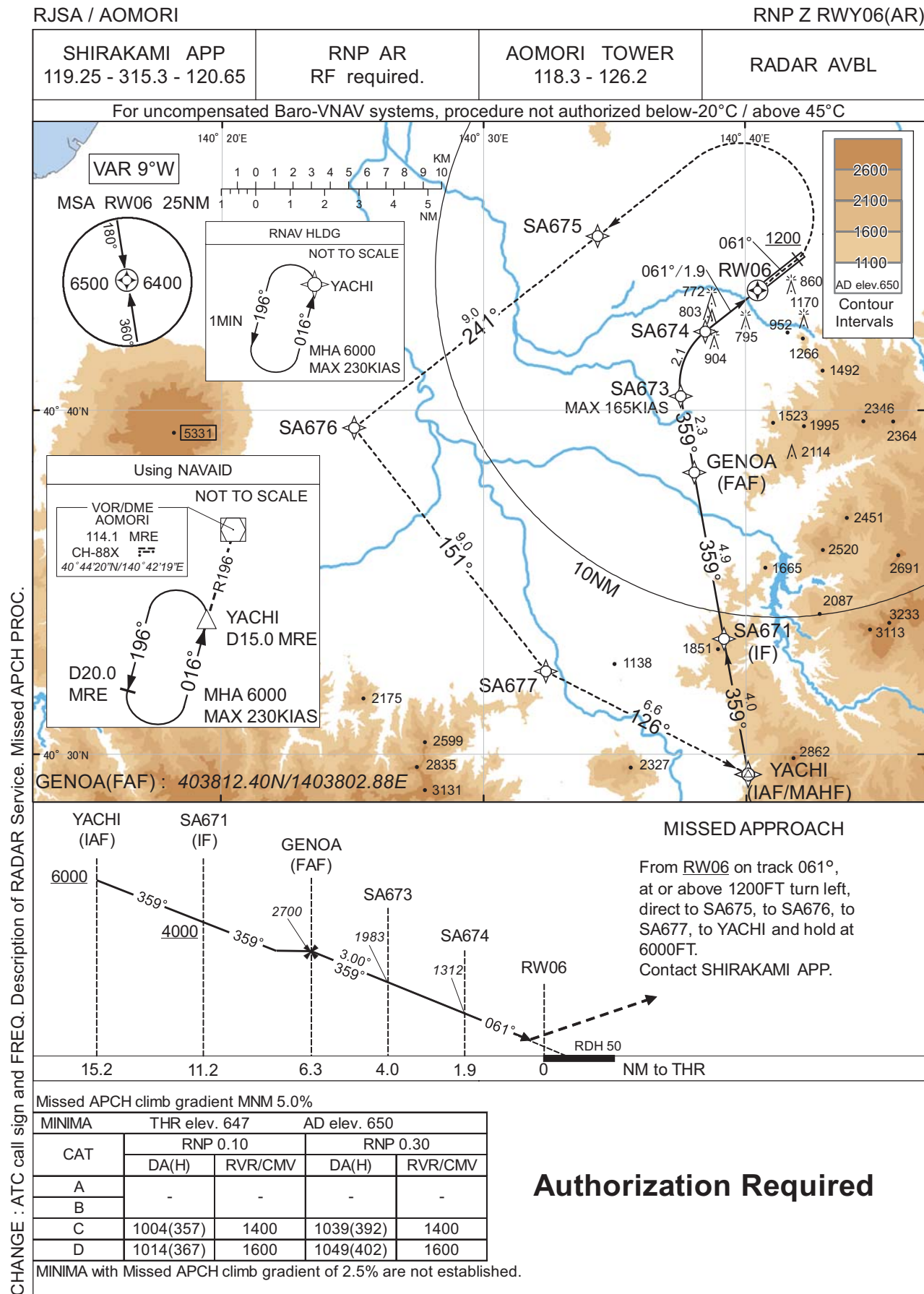
| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | RNP Value |
|------|---------------------|-----------------------|--------------------|---------------------|----------------|-----------------------|-----------------------|------------------|-----------|
| 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).

INSTRUMENT APPROACH CHART



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

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 | GENOA | - | 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 |

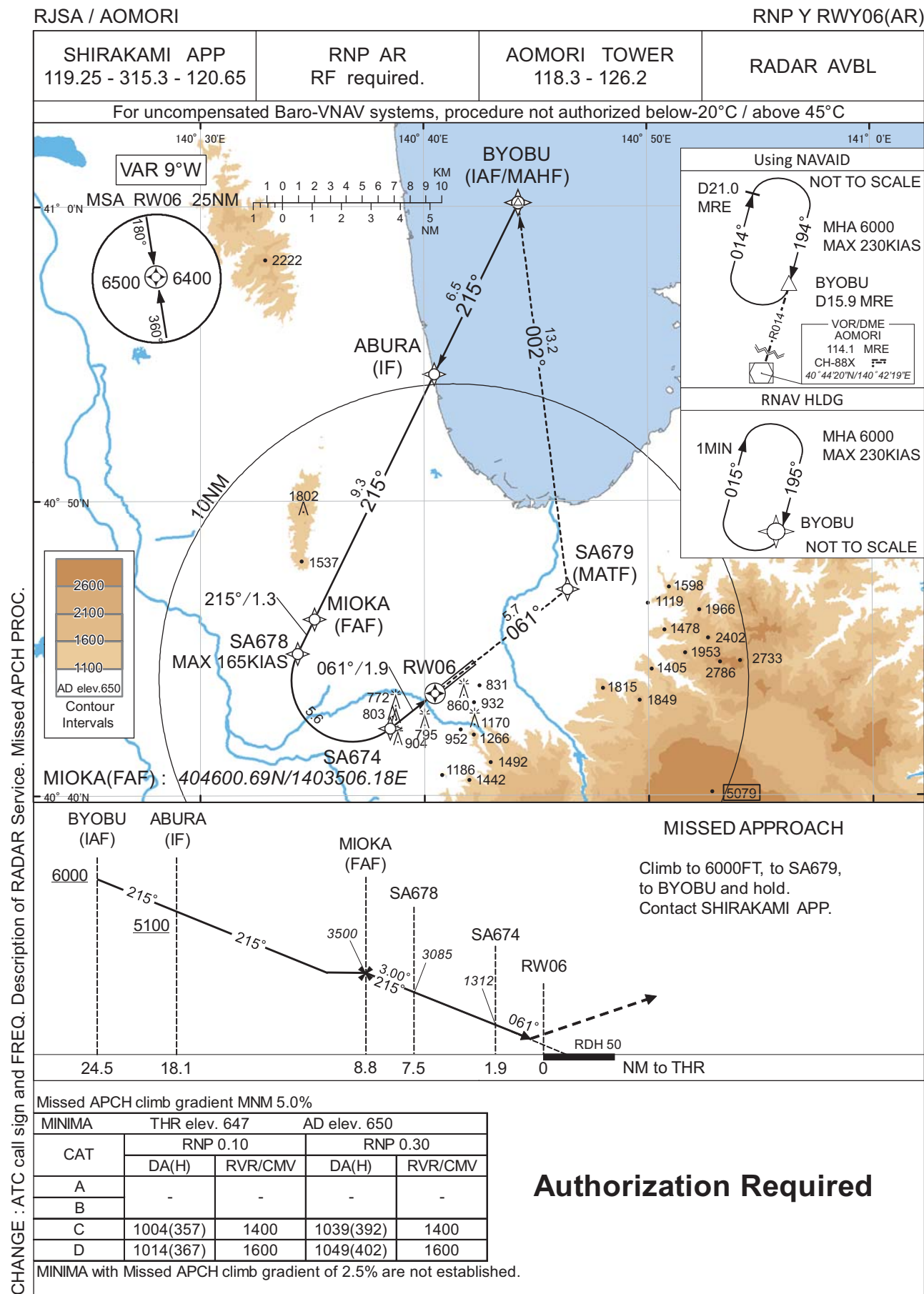
| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | RNP Value |
|------|---------------------|-----------------------|--------------------|---------------------|----------------|-----------------------|-----------------------|------------------|-----------|
| 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 | | |
| GENOA | 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 : VAR. RNAV HLDG established(YACHI).

INSTRUMENT APPROACH CHART



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

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 |

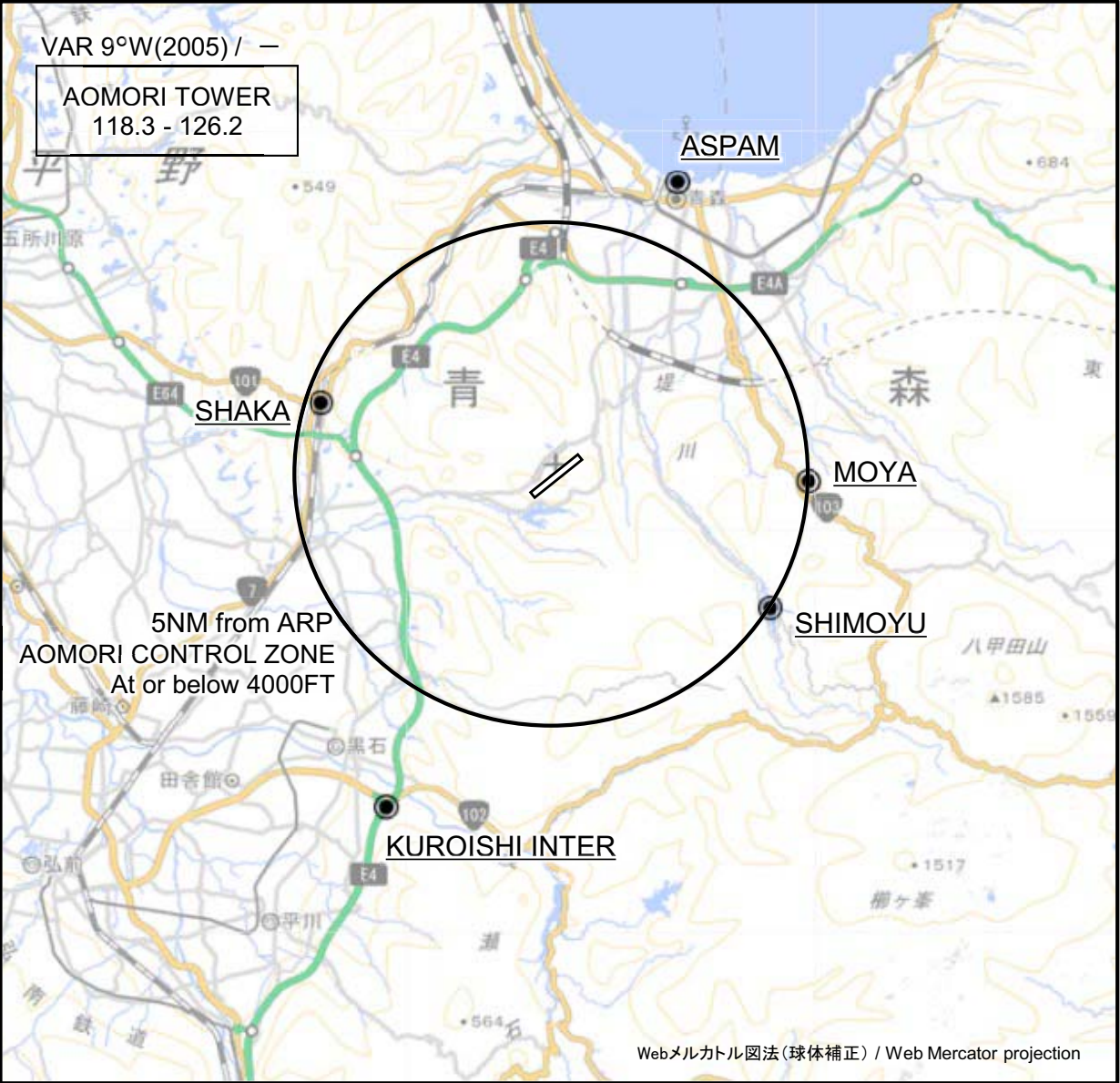
Waypoint Coordinates

| 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

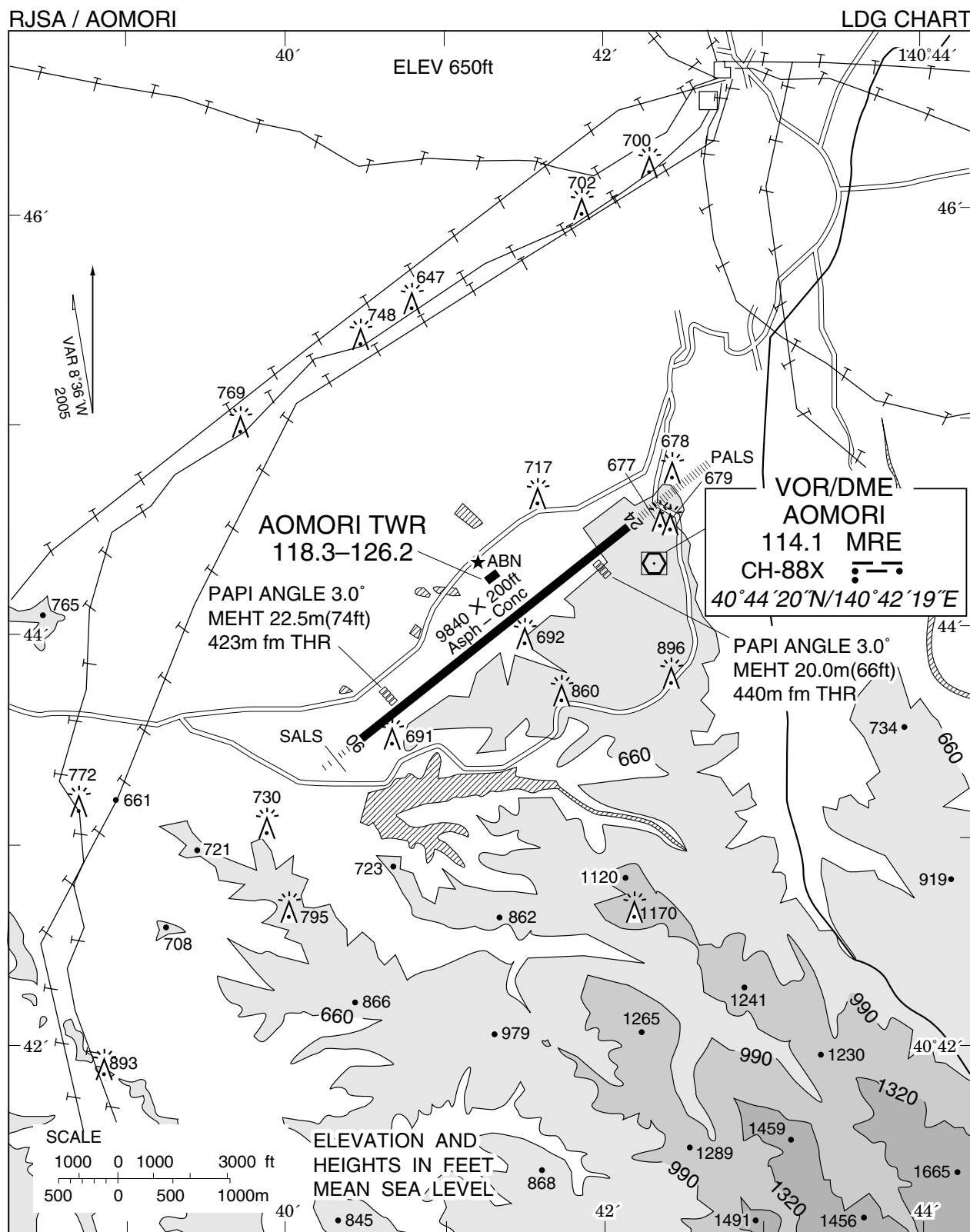
Visual REP



※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

