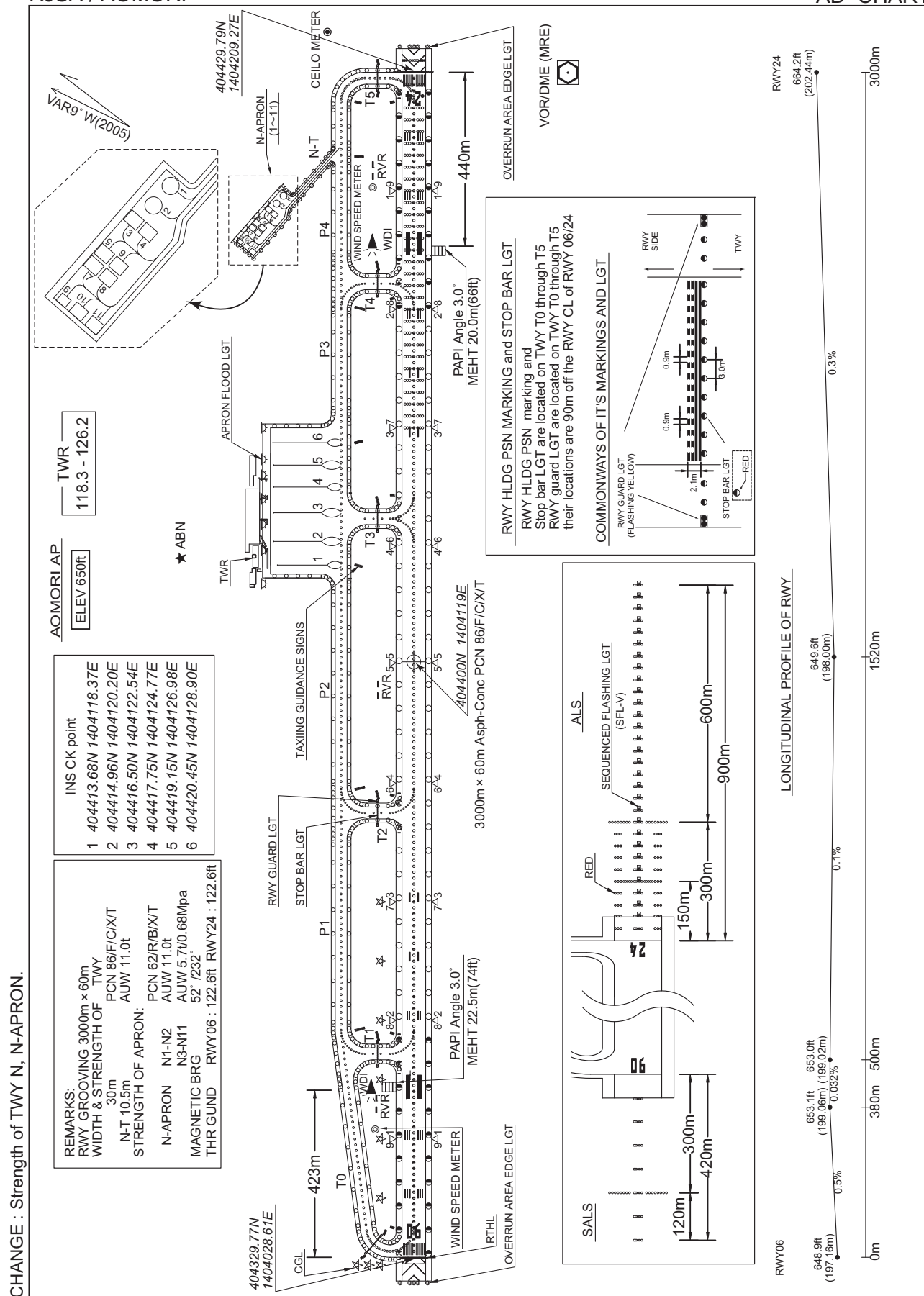


AD CHART



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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

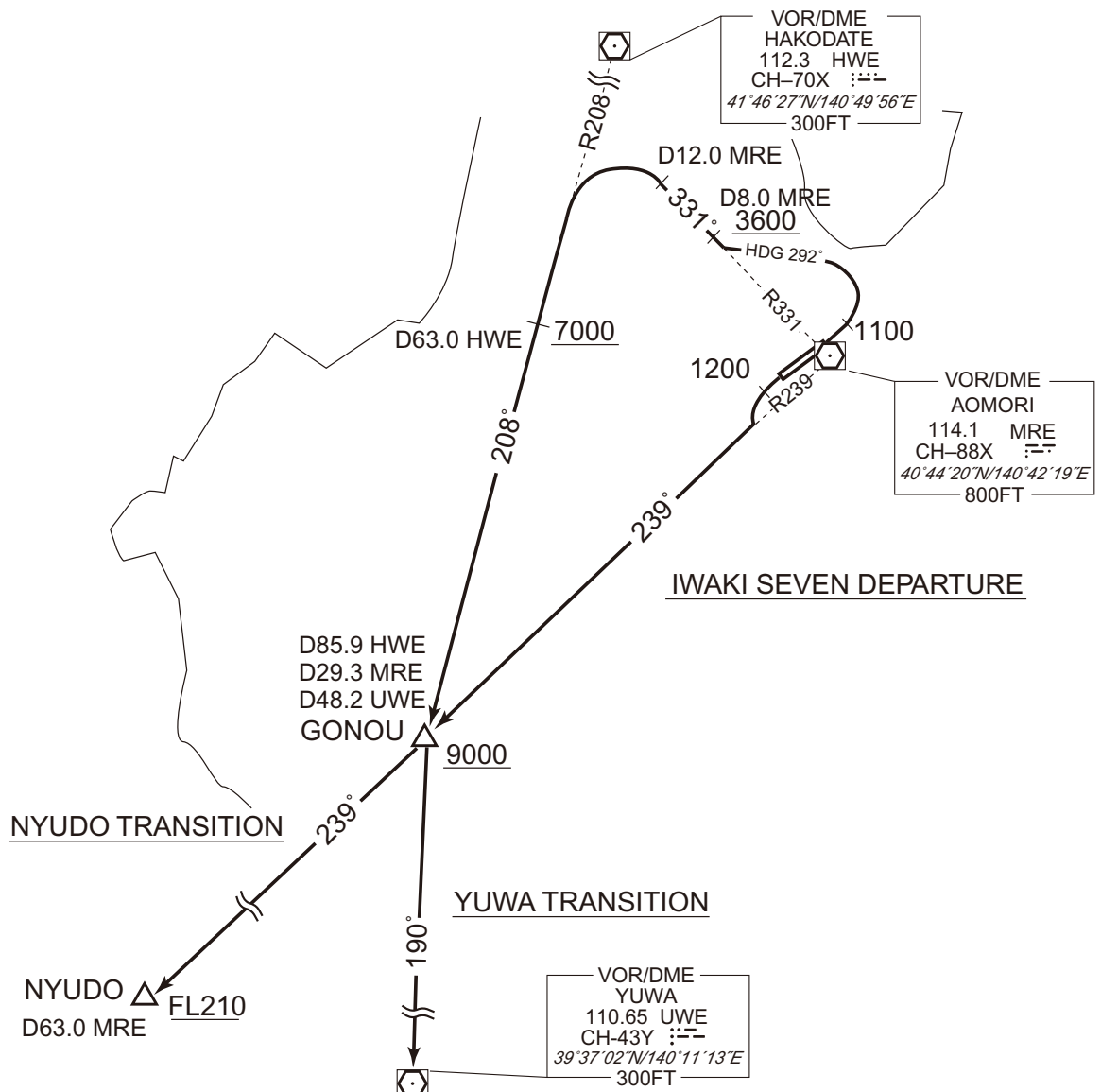
From over GONOU, via UWE R010 to UWE VOR/DME.

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.

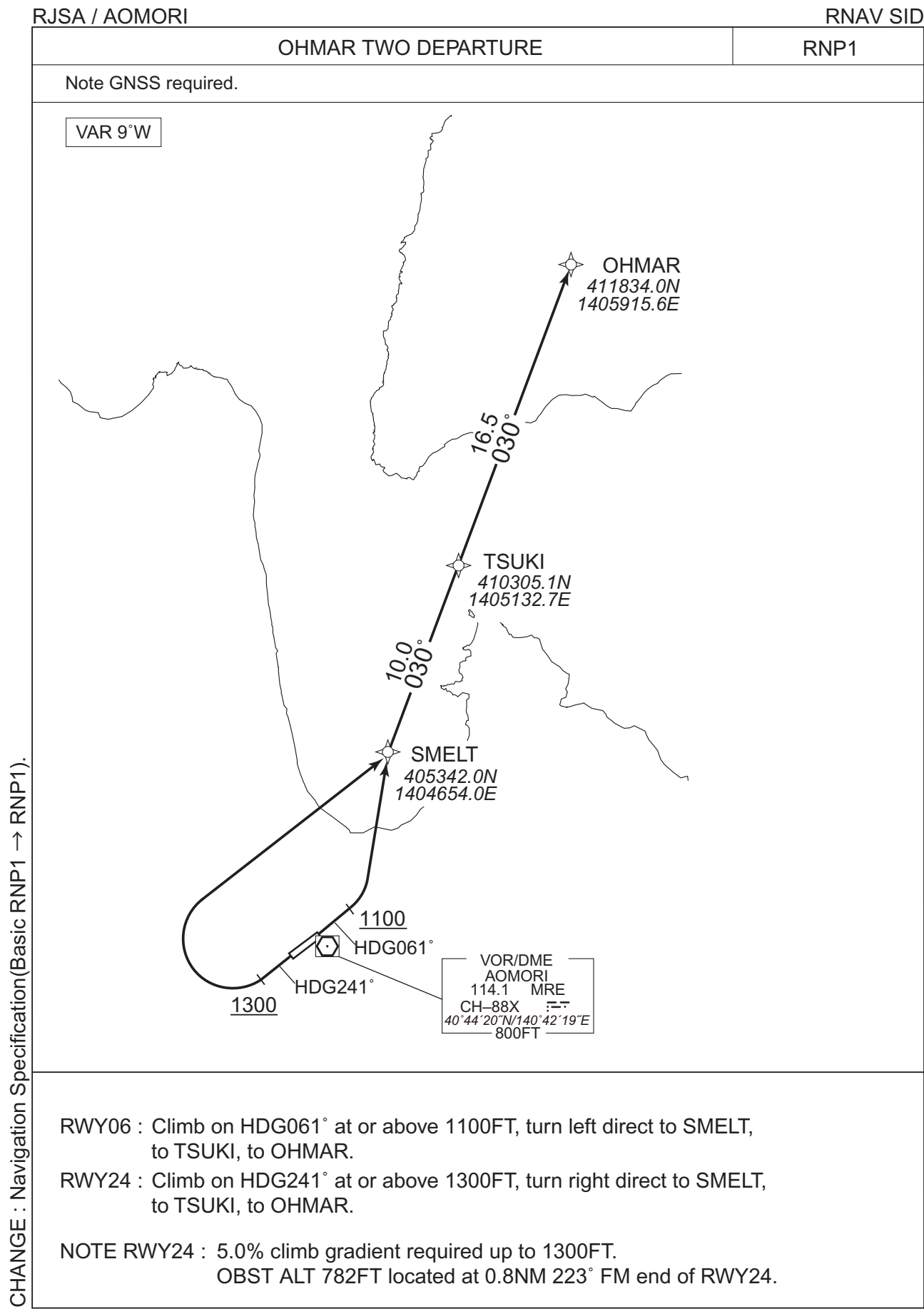
Note RWY24 : 5.0% climb gradient required up to 1200FT.

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



CHANGE : PROC renamed. PROC course.

STANDARD DEPARTURE CHART-INSTRUMENT



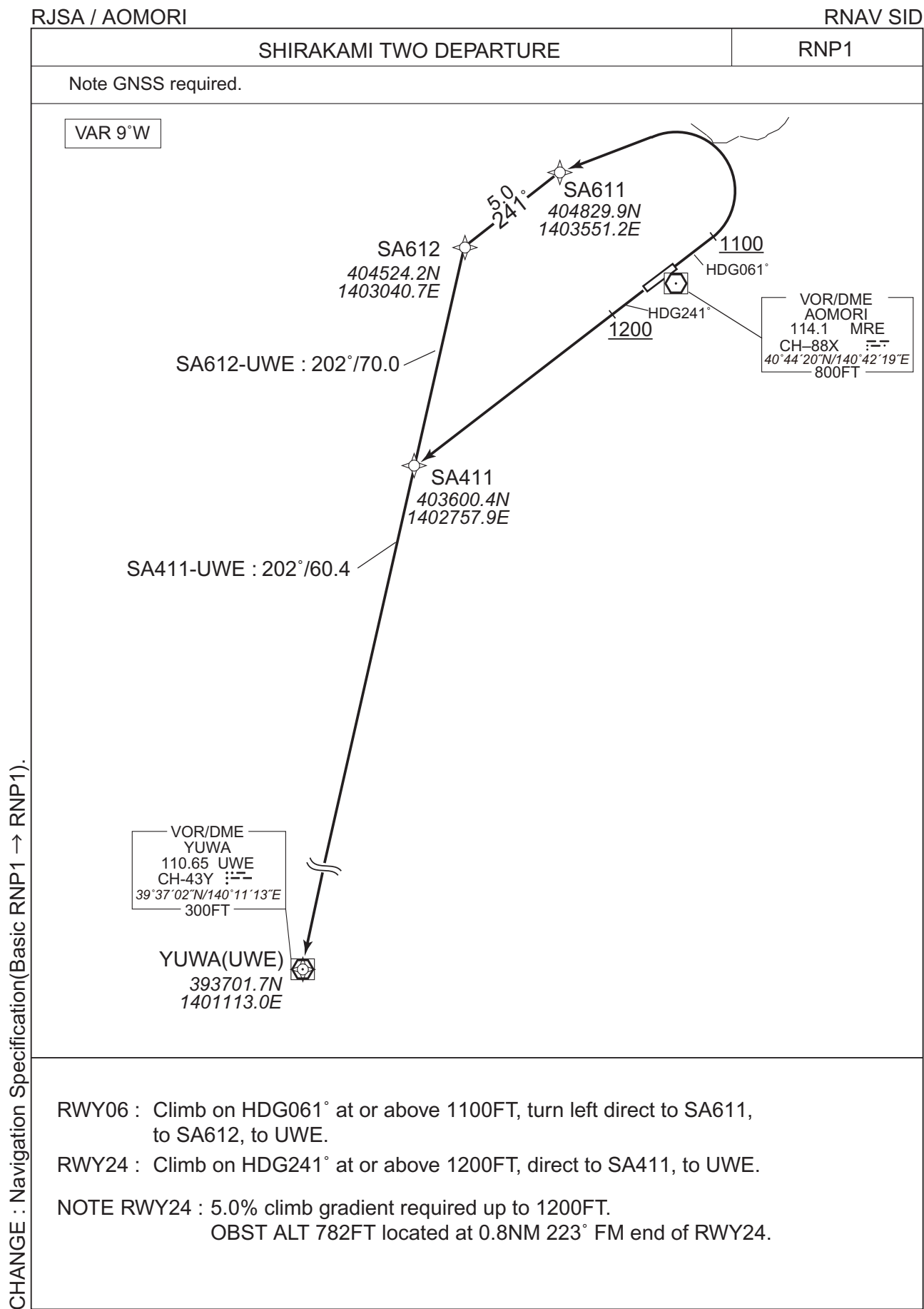
STANDARD DEPARTURE CHART-INSTRUMENT

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

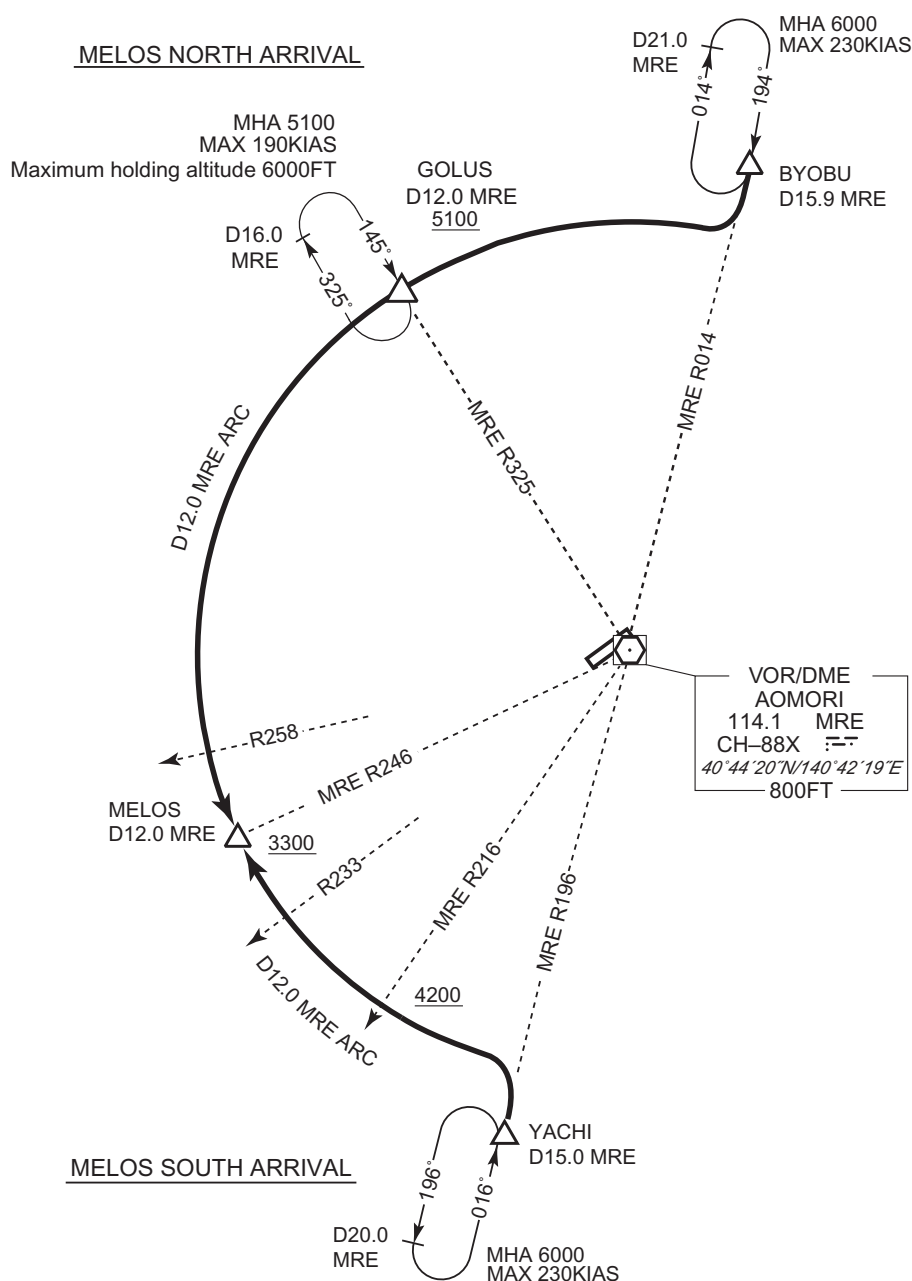
MELOS NORTH ARRIVAL

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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RJSA / AOMORI

SHIRAKAMI APP 119.25 - 315.3 - 120.65	ILS-LOC 111.9 IMR 331.1 ILS-GP 331.1 ILS-DME CH-56X	AOMORI TOWER 118.3 – 126.2	RADAR AVBL
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VAR 9°W

NOT TO SCALE
MHA6000
MAX 230KIAS

MRE VOR/DME

MHA6000
MAX 230KIAS

NOT TO SCALE

MSA 25NM

VOR/DME
AOMORI
114.1 MRE
CH-88X

40°44'20"N/140°42'19"E

BYOBU (IAF)
D15.9 MRE

D14.0 MRE ARC

OHRIN (FAF)
D8.7 IMR

MAPt(LOC)
D0.7 IMR

D7.0 MRE

HDRG241°

OHRIN(FAF) : 404945.91N / 1405100.82E

NM to IMR	MAPt	2	3	4	5	6	7	8	FAF
ALT (3.0° APCH Path)	-	1293	1612	1930	2249	2567	2886	3204	3434

MISSED APPROACH
Climb on HDRG241° to 1200FT,
via MRE R241 to MRE 7.0DME,
turn right, direct to MRE
VOR/DME and hold at 6000FT.
Contact SHIRAKAMI APP.

VDP
D1.1 IMR(CAT A,B)
D1.2 IMR(CAT C)
D1.3 IMR(CAT D)

Timing not authorized for defining the MAPt.

DME to IMR	0.2	0.3	0.7	6.4	8.7	14.2
NM to THR	0	0.1	0.5	6.2	8.5	14.0

Missed APCH climb gradient MNM 4.0%

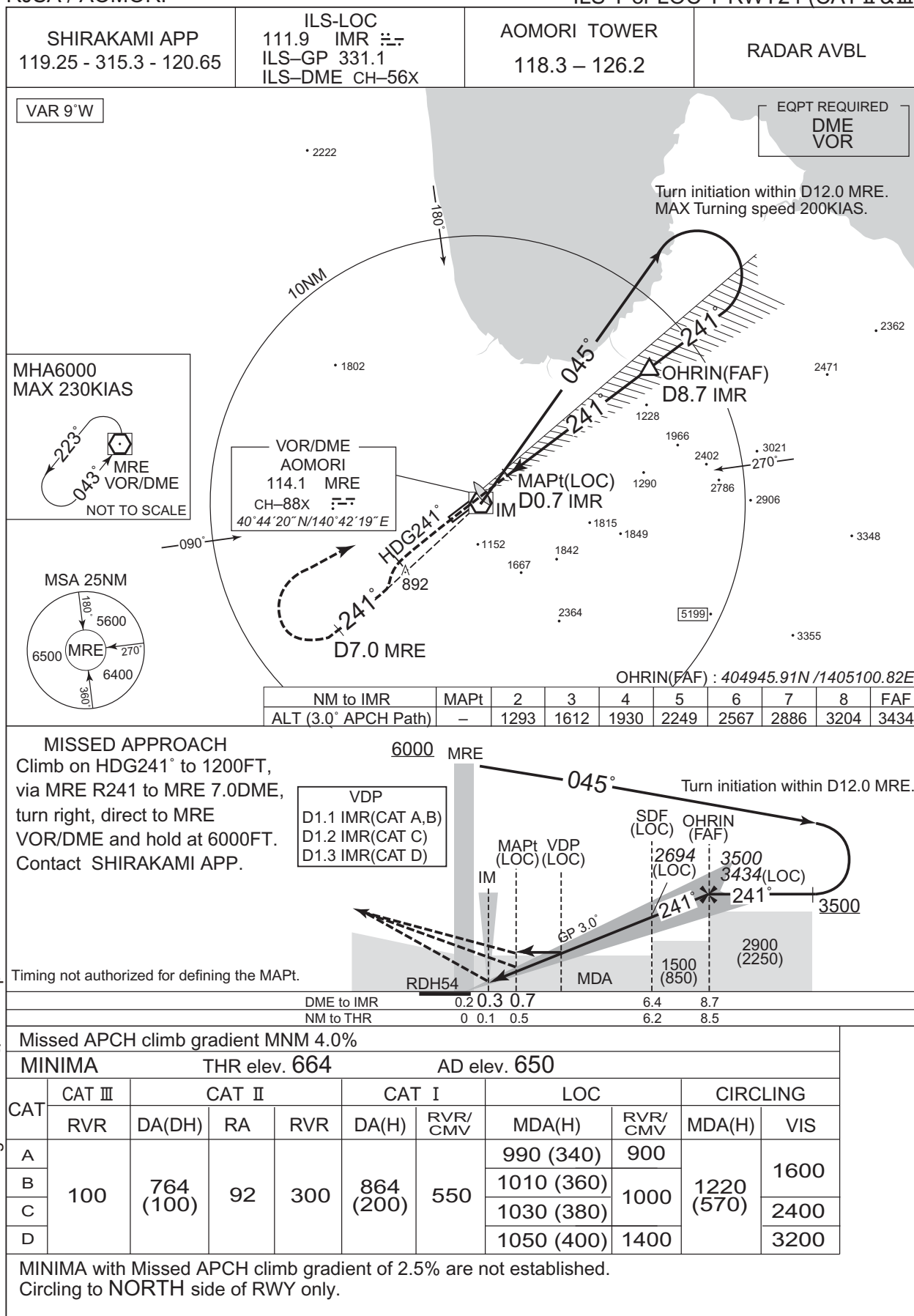
CAT	MINIMA			THR elev. 664			AD elev. 650			
	CAT III	CAT II		CAT I		LOC		CIRCLING		
	RVR	DA(DH)	RA	RVR	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	100	764 (100)	92	300	864 (200)	550	990 (340)	900	1220 (570)	1600
B							1010 (360)	1000		
C							1030 (380)			
D							1050 (400)			

MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to NORTH side of RWY only.

INSTRUMENT APPROACH CHART

RJSA / AOMORI

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

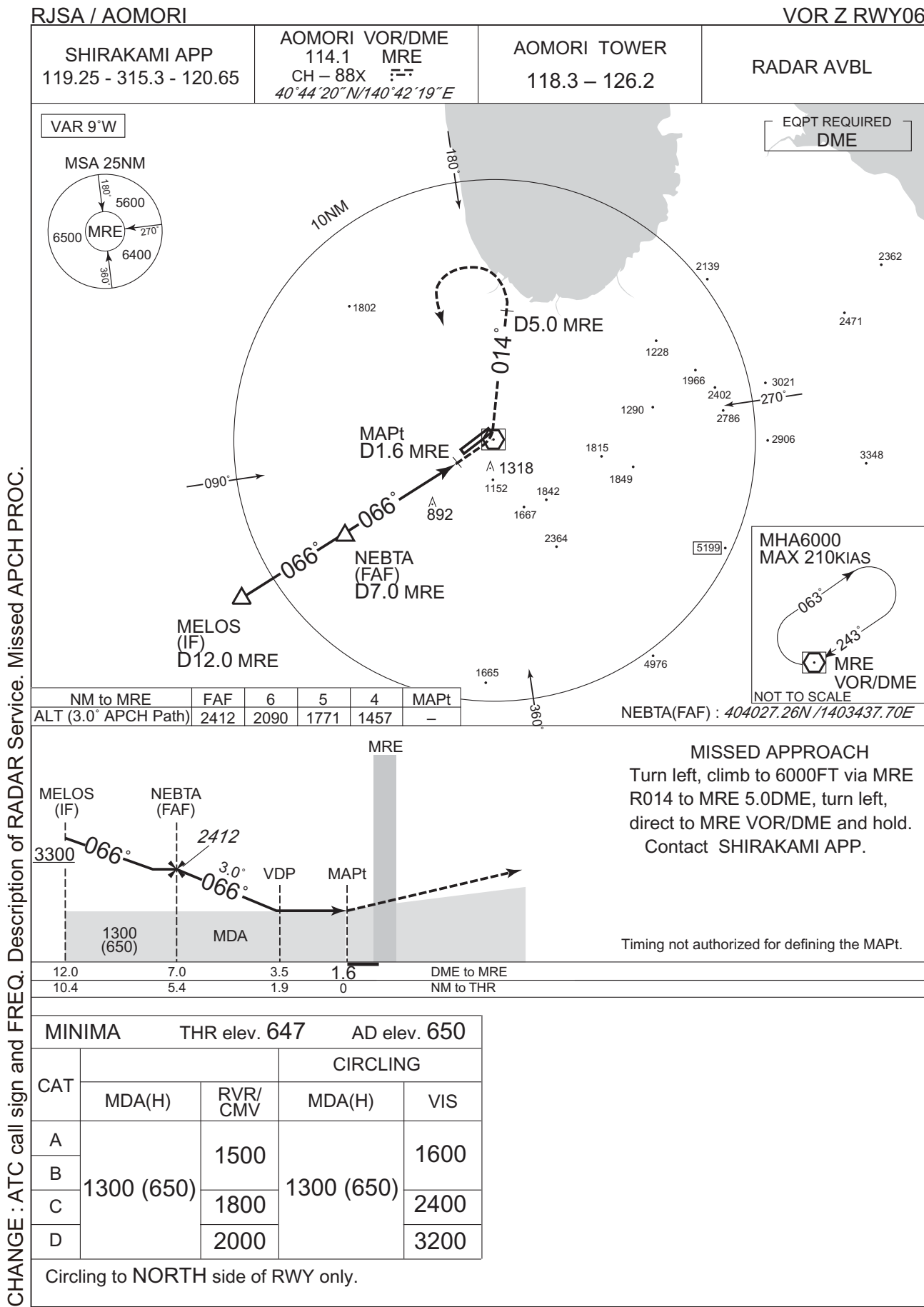


CHANGE : ATC call sign and FREQ. Description of RADAR Service. Missed APCH PROC.

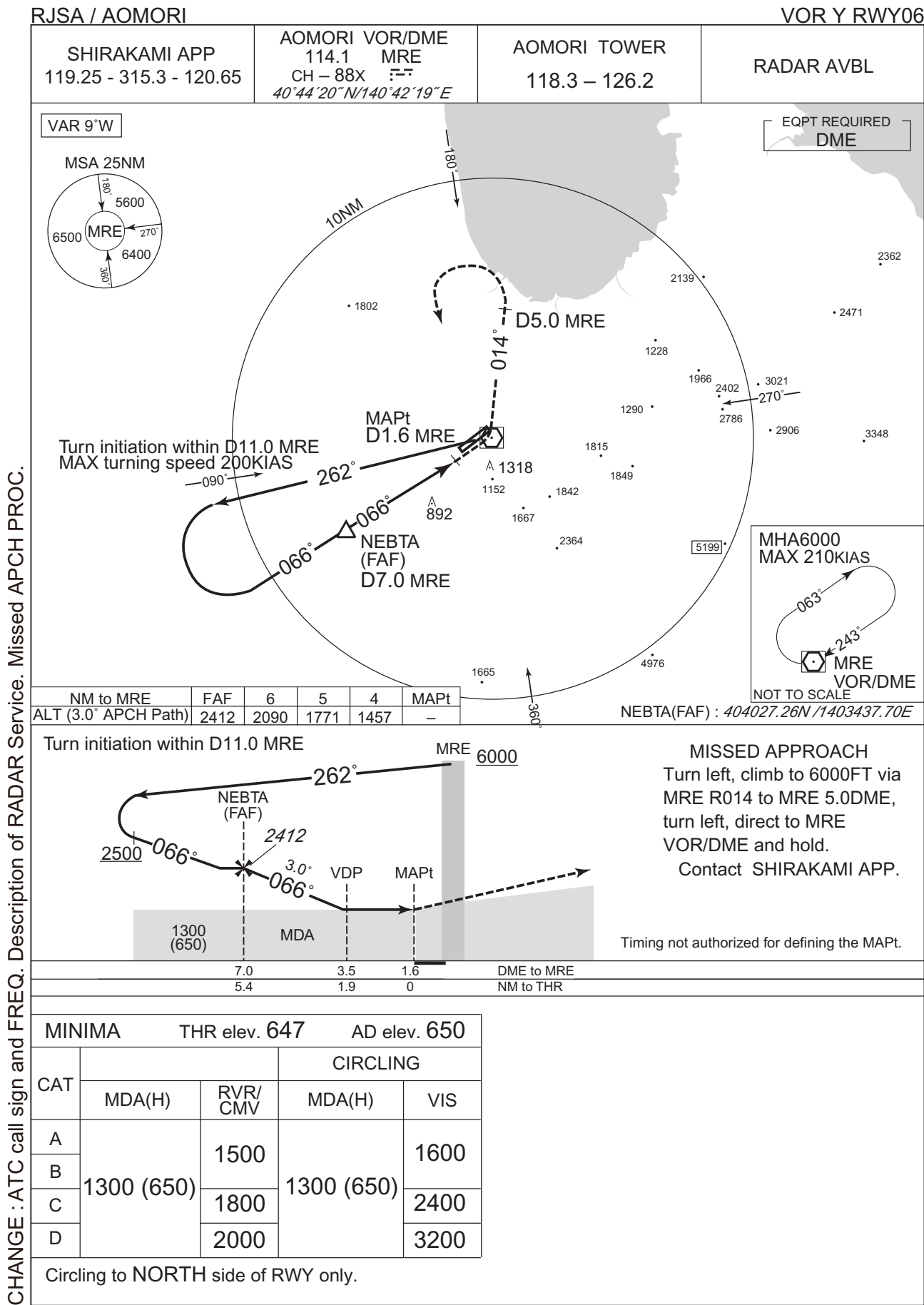
CHANGE : ATC call sign and FREQ. Description of RADAR Service. Missed APCH PROC.



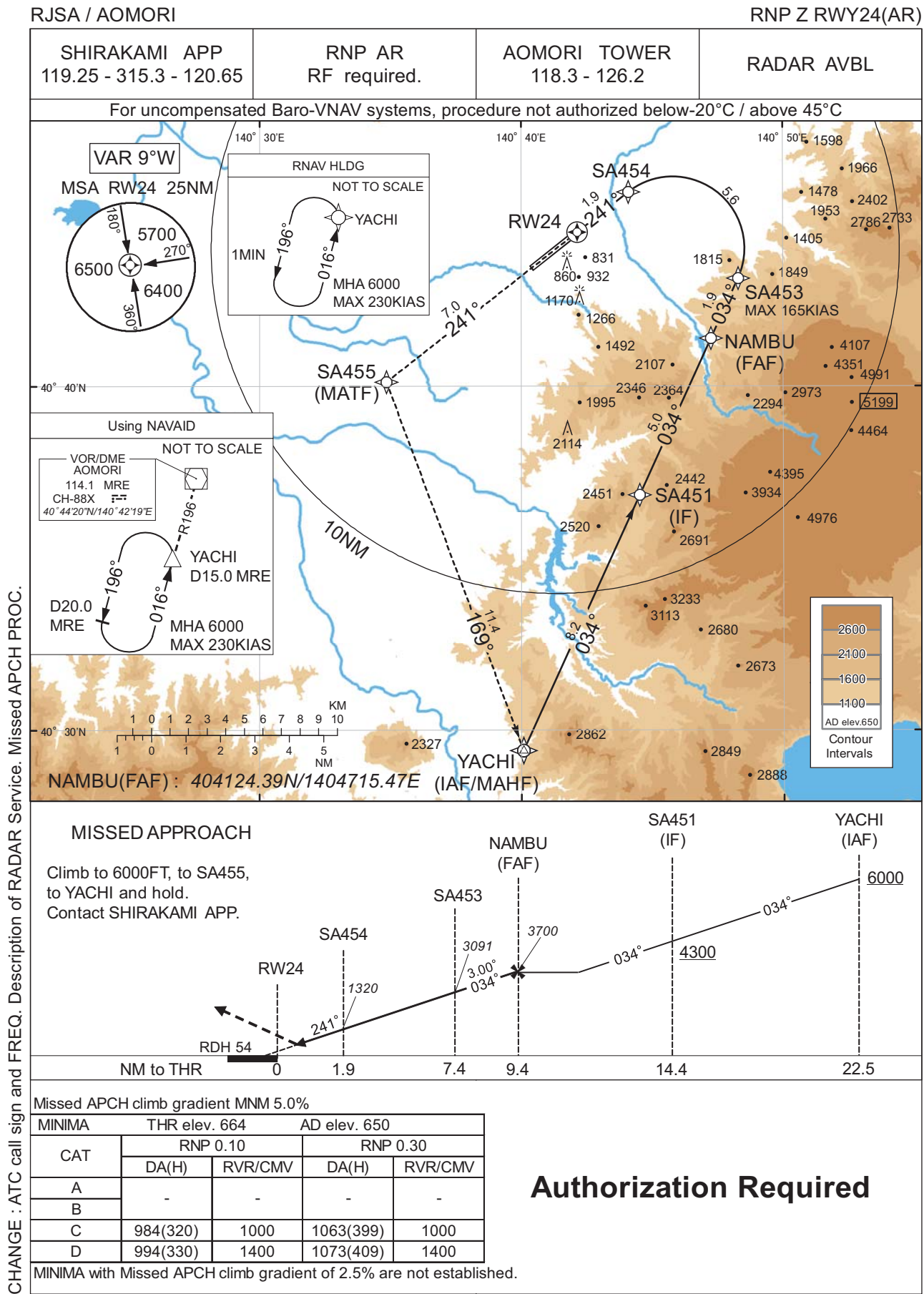
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



MISSED APPROACH

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

SA454

RW24

RDH 54

241°

1320

SA453

3091

3.00°

034°

3700

NAMBU (FAF)

034°

4300

SA451 (IF)

034°

6000

YACHI (IAF)

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	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

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

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

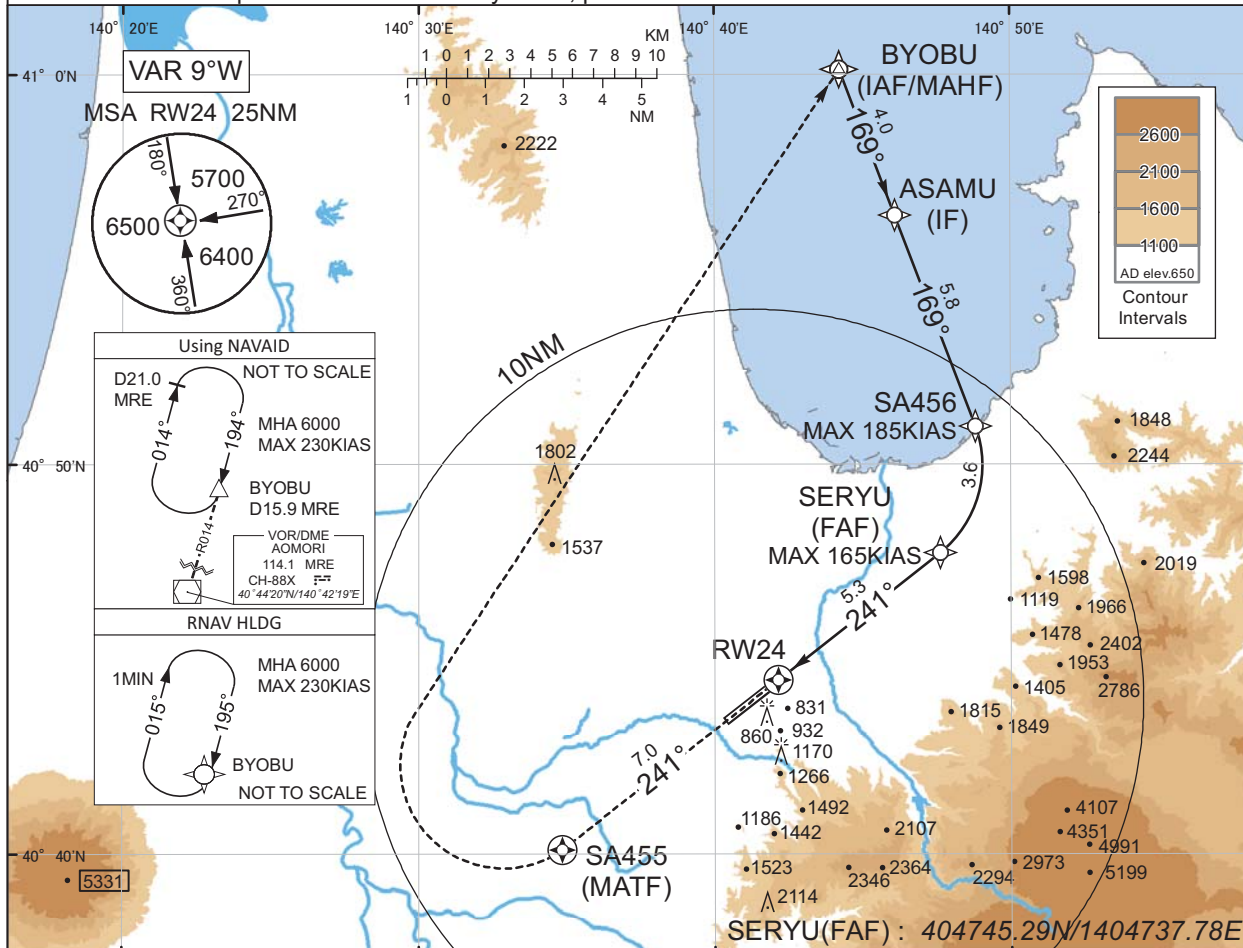
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
YACHI	402925.44N / 1404004.97E	SARF1	404400.99N / 1404548.34E
SA451	403651.24N / 1404431.58E		
NAMBU	404124.39N / 1404715.47E		
SA453	404308.85N / 1404818.25E		
SA454	404539.74N / 1404406.71E		
RW24	404429.79N / 1404209.27E		
SA455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

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

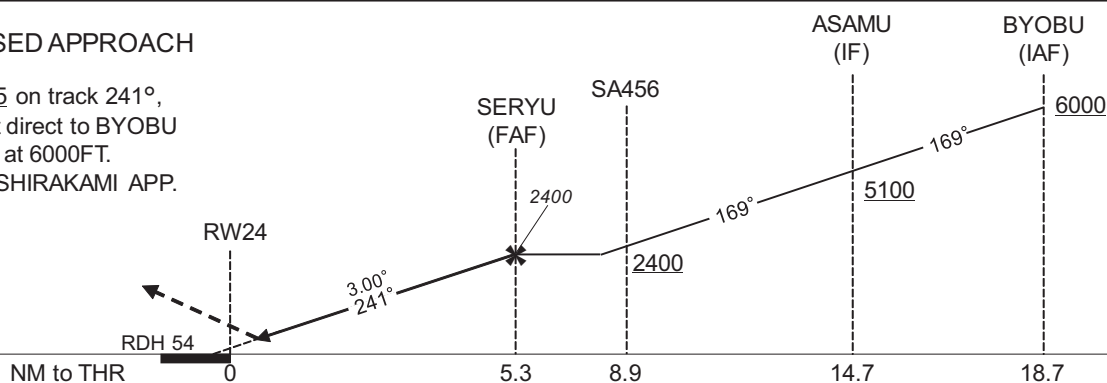
RJSA / AOMORI

SHIRAKAMI APP 119.25 - 315.3 - 120.65	RNP AR RF required.	AOMORI TOWER 118.3 - 126.2	RADAR AVBL
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For uncompensated Baro-VNAV systems, procedure not authorized below -20°C / above 45°C



To SA455 on track 241°,
turn right direct to BYOBU
and hold at 6000FT.
Contact SHIRAKAMI APP.



Missed APCH climb gradient MNM 5.0%

MINIMA		THR elev. 664		AD elev. 650	
CAT	RNP 0.10		RNP 0.30		
	DA(H)	RVR/CMV	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 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

RNP Z RWY06(AR)

SHIRAKAMI APP 119.25 - 315.3 - 120.65	RNP AR RF required.	AOMORI TOWER 118.3 - 126.2	RADAR AVBL
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VAR 9°W

MSA RW06 25NM

RNAV HLDG NOT TO SCALE

YACHI
MHA 6000
MAX 230KIAS

1MIN

Using NAVAID NOT TO SCALE

VOR/DME AOMORI
114.1 MRE
CH-88X
40° 44'20"N/140° 42'19"E

YACHI
D15.0 MRE
MHA 6000
MAX 230KIAS

D20.0 MRE

GENOA(FAF): 403812.40N/1403802.88E

GENOA (FAF)

SA671 (IF)

YACHI (IAF/MAHF)

SA675

SA674

SA673 MAX 165KIAS

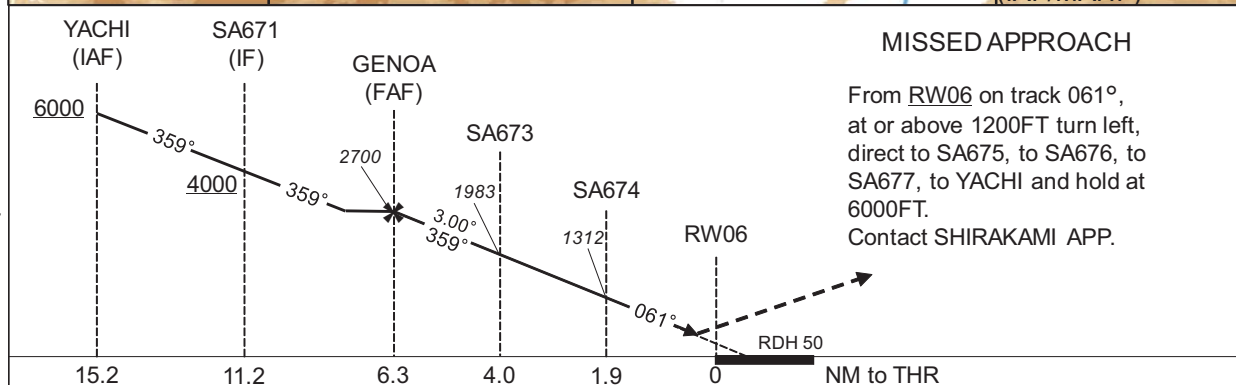
SA676

SA677

10NM

Contour Intervals

2600
2100
1600
1100
AD elev.650



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	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

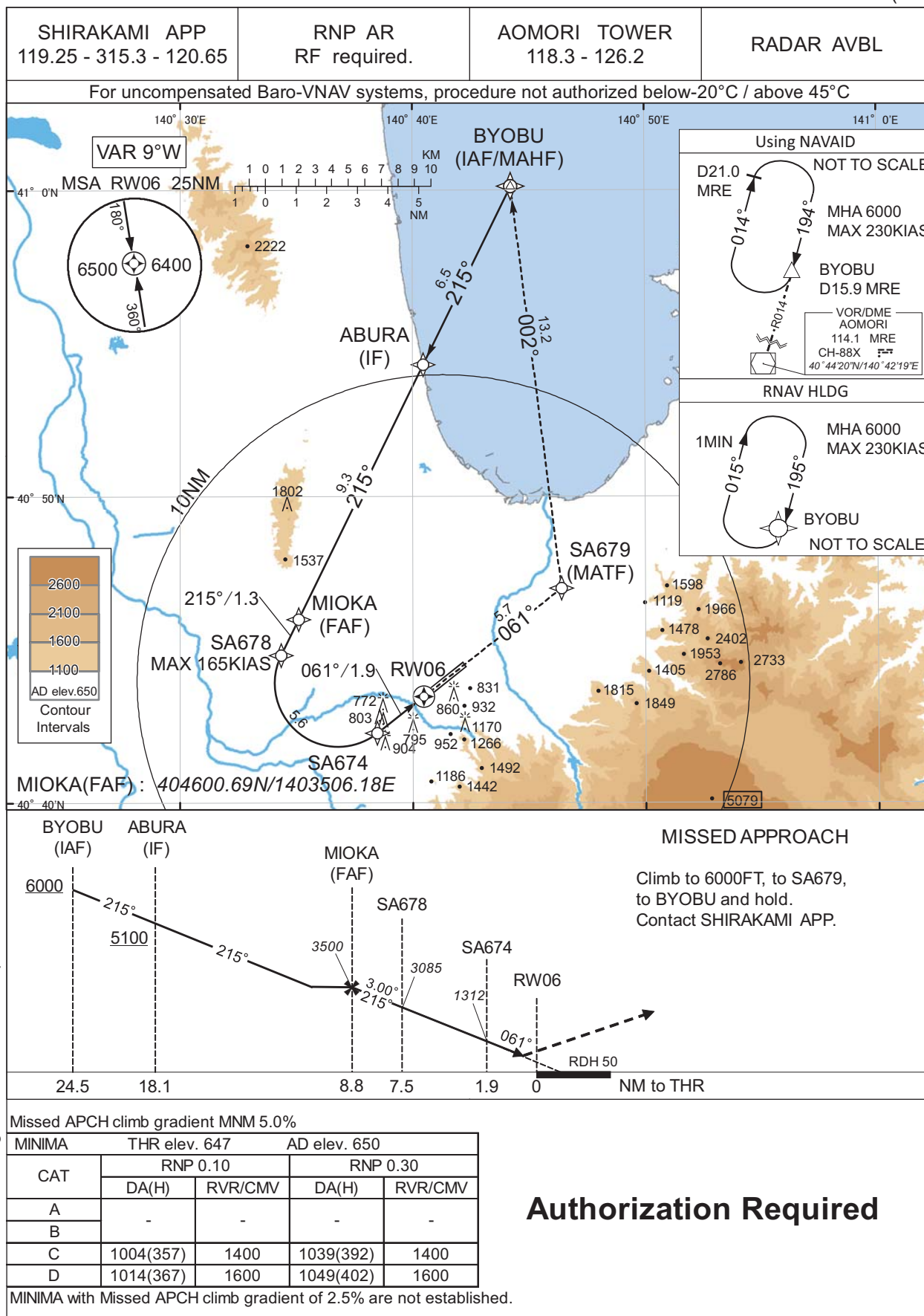
Waypoint Coordinates			
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
YACHI	402925.44N / 1404004.97E	SARF2	404045.88N / 1404003.56E
SA671	403322.04N / 1403910.22E		
GENOA	403812.40N / 1403802.88E		
SA673	404025.48N / 1403731.96E		
SA674	404218.09N / 1403828.52E		
RW06	404329.77N / 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

RJS A / AOMORI

RNP Y RWY06(AR)



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

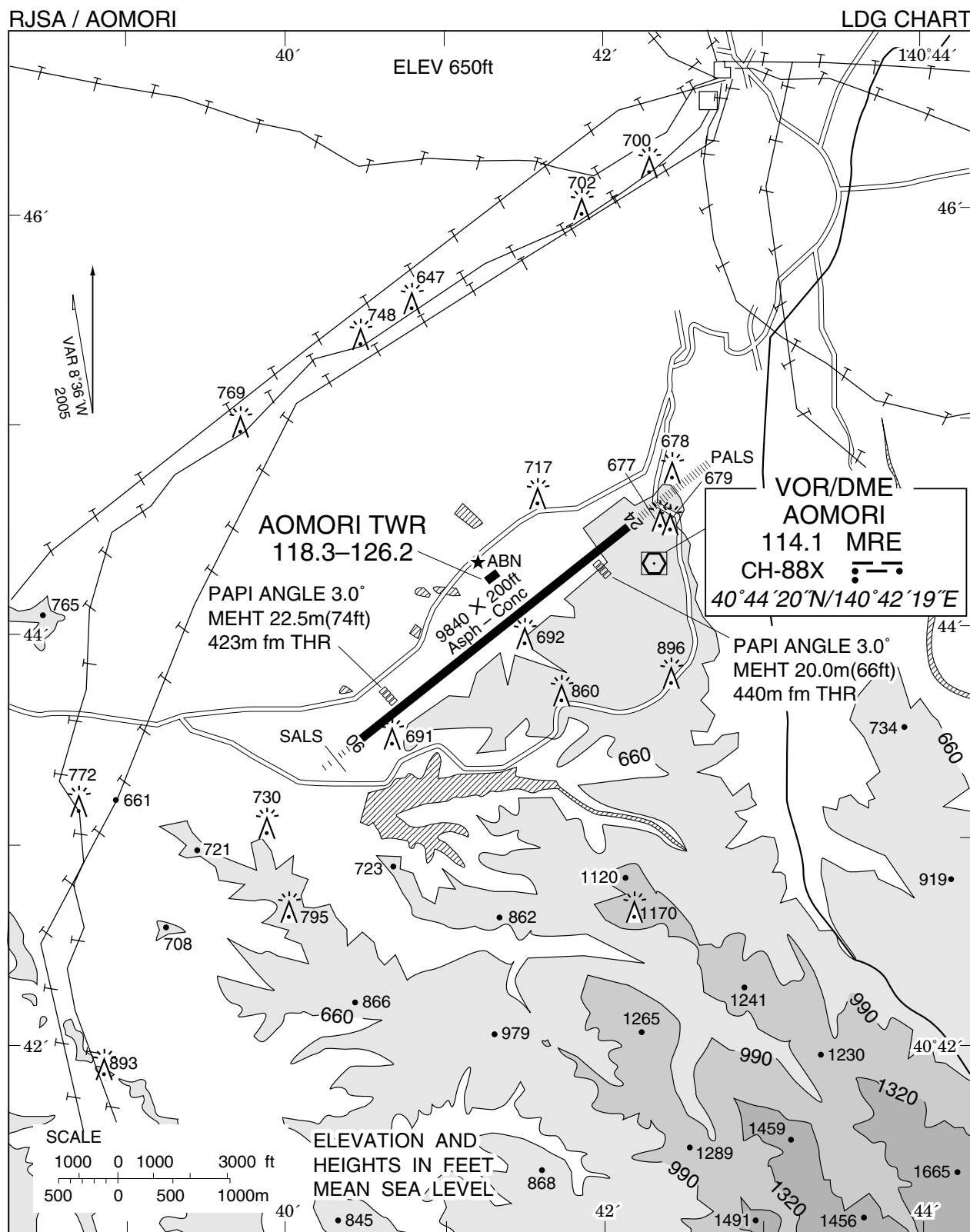
Visual REP



※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

CHANGE : Update.

