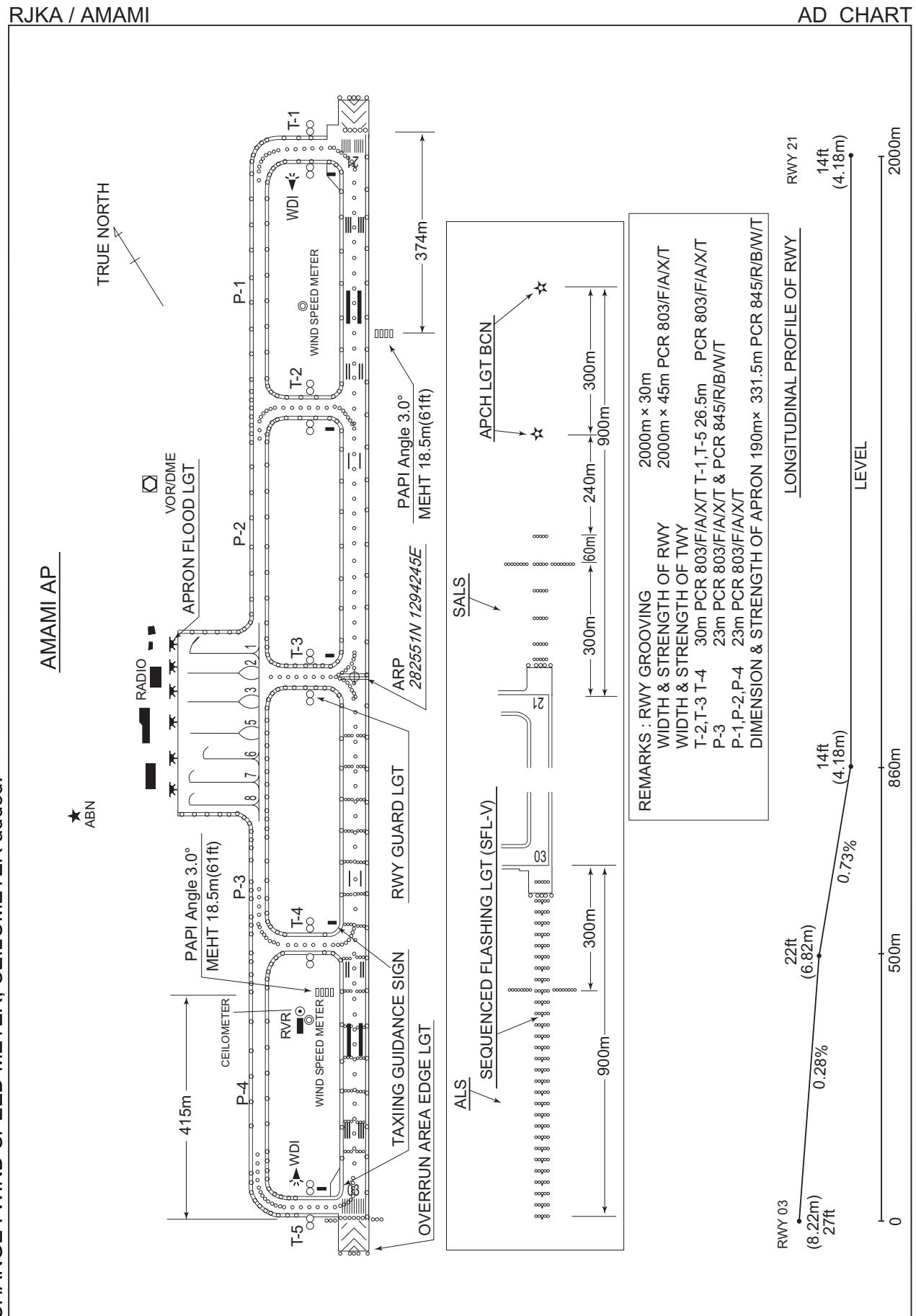


CHANGE : WIND SPEED METER, CEILOMETER added.



STANDARD DEPARTURE CHART -INSTRUMENT

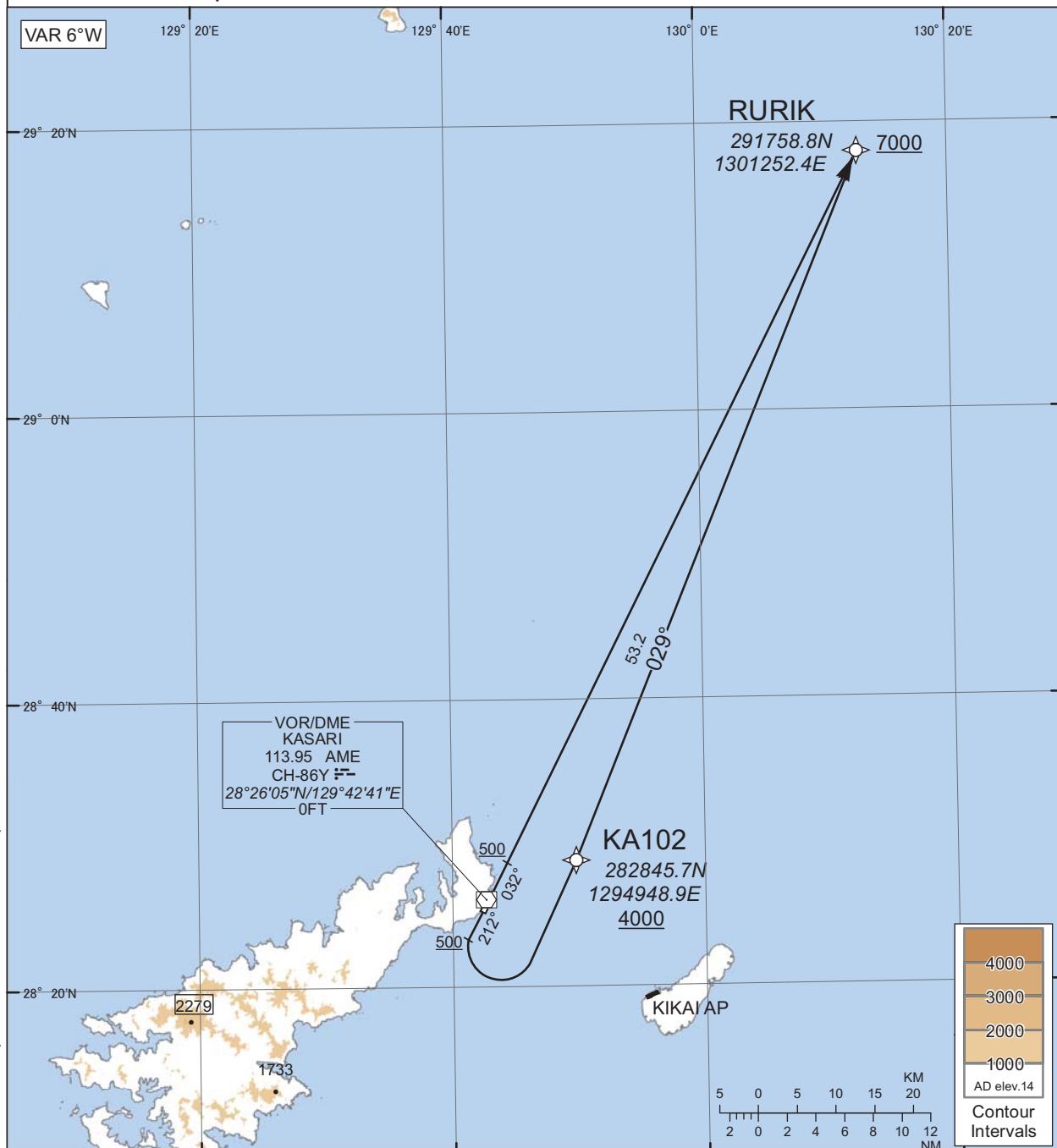
RJKA / AMAMI

RNAV SID

RURIK THREE DEPARTURE

RNP1

Note GNSS required.



CHANGE : Navigation Specification(Basic RNP1→RNP1).

RWY03 : Climb on HDG032° at or above 500FT, direct to RURIK at or above 7000FT.

RWY21 : Climb on HDG212° at or above 500FT, turn left direct to KA102 at or above 4000FT, to RURIK at or above 7000FT.

Note RWY03 : 3.5% climb gradient required up to 500FT.

OBST ALT 197FT located at 1.1NM 015° FM end of RWY03.

RWY21 : 5.0% climb gradient required up to 500FT.

STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

RNAV SID

RURIK THREE DEPARTURE

RWY03

| 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 | - | - | 032 (025.8) | -6.4 | - | - | +500 | - | - | RNP1 |
| 002 | DF | RURIK | - | - | -6.4 | - | - | +7000 | - | - | RNP1 |

RWY21

| 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 | - | - | 212 (205.8) | -6.4 | - | - | +500 | - | - | RNP1 |
| 002 | DF | KA102 | - | - | -6.4 | - | L | +4000 | - | - | RNP1 |
| 003 | TF | RURIK | - | 029 (022.2) | -6.4 | 53.2 | - | +7000 | - | - | RNP1 |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART -INSTRUMENT

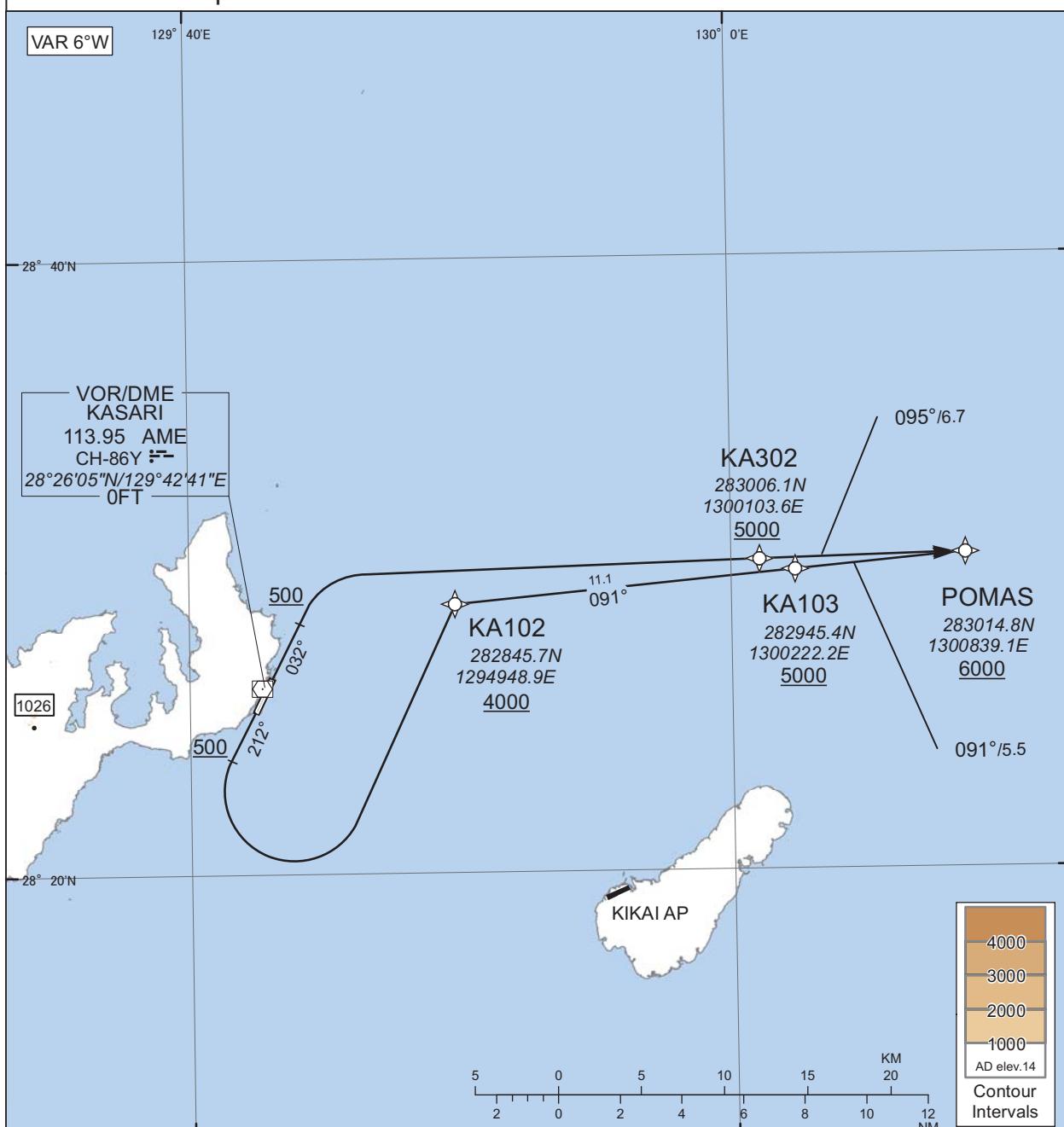
RJKA / AMAMI

RNAV SID

USAGI EAST THREE DEPARTURE

RNP1

Note GNSS required.



CHANGE : Navigation Specification(Basic RNP1→RNP1)

RWY03 : Climb on HDG032° at or above 500FT, turn right direct to KA302 at or above 5000FT, to POMAS at or above 6000FT.

RWY21 : Climb on HDG212° at or above 500FT, turn left direct to KA102 at or above 4000FT, to KA103 at or above 5000FT, to POMAS at or above 6000FT.

Note RWY03 : 3.5% climb gradient required up to 500FT.

OBST ALT 197FT located at 1.1NM 015° FM end of RWY03.

RWY21 : 5.0% climb gradient required up to 500FT.

STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

RNAV SID

USAGI EAST THREE DEPARTURE

RWY03

| 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 | - | - | 032 (025.8) | -6.4 | - | - | +500 | - | - | RNP1 |
| 002 | DF | KA302 | - | - | -6.4 | - | R | +5000 | - | - | RNP1 |
| 003 | TF | POMAS | - | 095 (088.7) | -6.4 | 6.7 | - | +6000 | - | - | RNP1 |

RWY21

| 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 | - | - | 212 (205.8) | -6.4 | - | - | +500 | - | - | RNP1 |
| 002 | DF | KA102 | - | - | -6.4 | - | L | +4000 | - | - | RNP1 |
| 003 | TF | KA103 | - | 091 (084.8) | -6.4 | 11.1 | - | +5000 | - | - | RNP1 |
| 004 | TF | POMAS | - | 091 (084.9) | -6.4 | 5.5 | - | +6000 | - | - | RNP1 |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART -INSTRUMENT

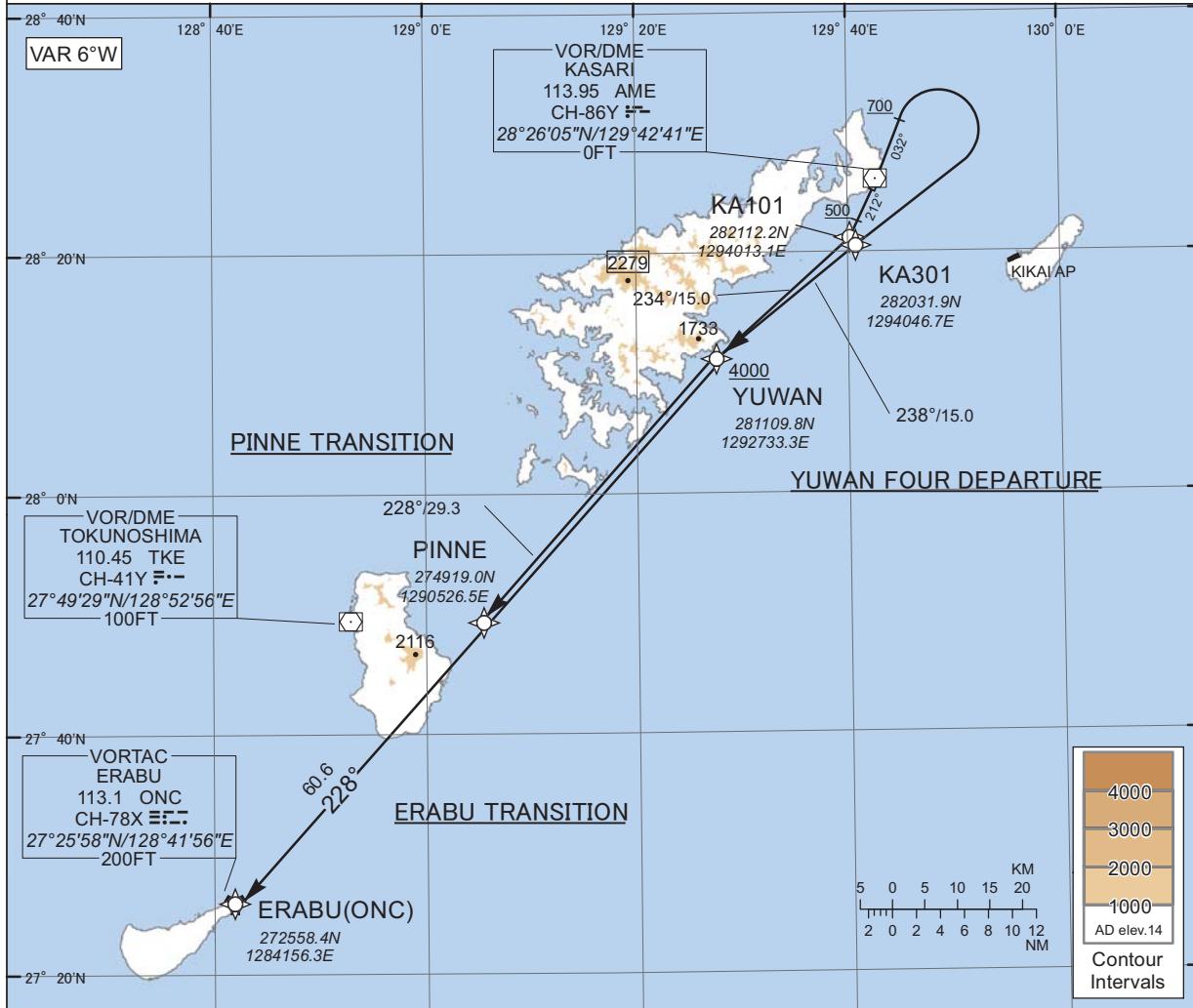
RJKA / AMAMI

RNAV SID and TRANSITION

YUWAN FOUR DEPARTURE
PINNE TRANSITION
ERABU TRANSITION

RNP1

Note GNSS required.



CHANGE : Navigation Specification(Basic RNP1→RNP1).

RWY03 : Climb on HDG032° at or above 700FT, turn right direct to KA301, to YUWAN at or above 4000FT.

RWY21 : Climb on HDG212° at or above 500FT, direct to KA101, to YUWAN at or above 4000FT.

Note RWY03 : 3.5% climb gradient required up to 700FT.

OBST ALT 197FT located at 1.1NM 015° FM end of RWY03.

PINNE TRANSITION

From YUWAN at or above 4000FT, to PINNE.

ERABU TRANSITION

From YUWAN at or above 4000FT, to ONC.

STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

RNAV SID and TRANSITION

YUWAN FOUR DEPARTURE

RWY03

| 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 | - | - | 032 (025.8) | -6.4 | - | - | +700 | - | - | RNP1 |
| 002 | DF | KA301 | - | - | -6.4 | - | R | - | - | - | RNP1 |
| 003 | TF | YUWAN | - | 238 (231.2) | -6.4 | 15.0 | - | +4000 | - | - | RNP1 |

RWY21

| 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 | - | - | 212 (205.8) | -6.4 | - | - | +500 | - | - | RNP1 |
| 002 | DF | KA101 | - | - | -6.4 | - | - | - | - | - | RNP1 |
| 003 | TF | YUWAN | - | 234 (228.1) | -6.4 | 15.0 | - | +4000 | - | - | RNP1 |

PINNE TRANSITION

| 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 | YUWAN | - | - | -6.4 | - | - | +4000 | - | - | RNP1 |
| 002 | TF | PINNE | - | 228 (221.9) | -6.4 | 29.3 | - | - | - | - | RNP1 |

ERABU TRANSITION

| 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 | YUWAN | - | - | -6.4 | - | - | +4000 | - | - | RNP1 |
| 002 | TF | ONC | - | 228 (221.9) | -6.4 | 60.6 | - | - | - | - | RNP1 |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART -INSTRUMENT

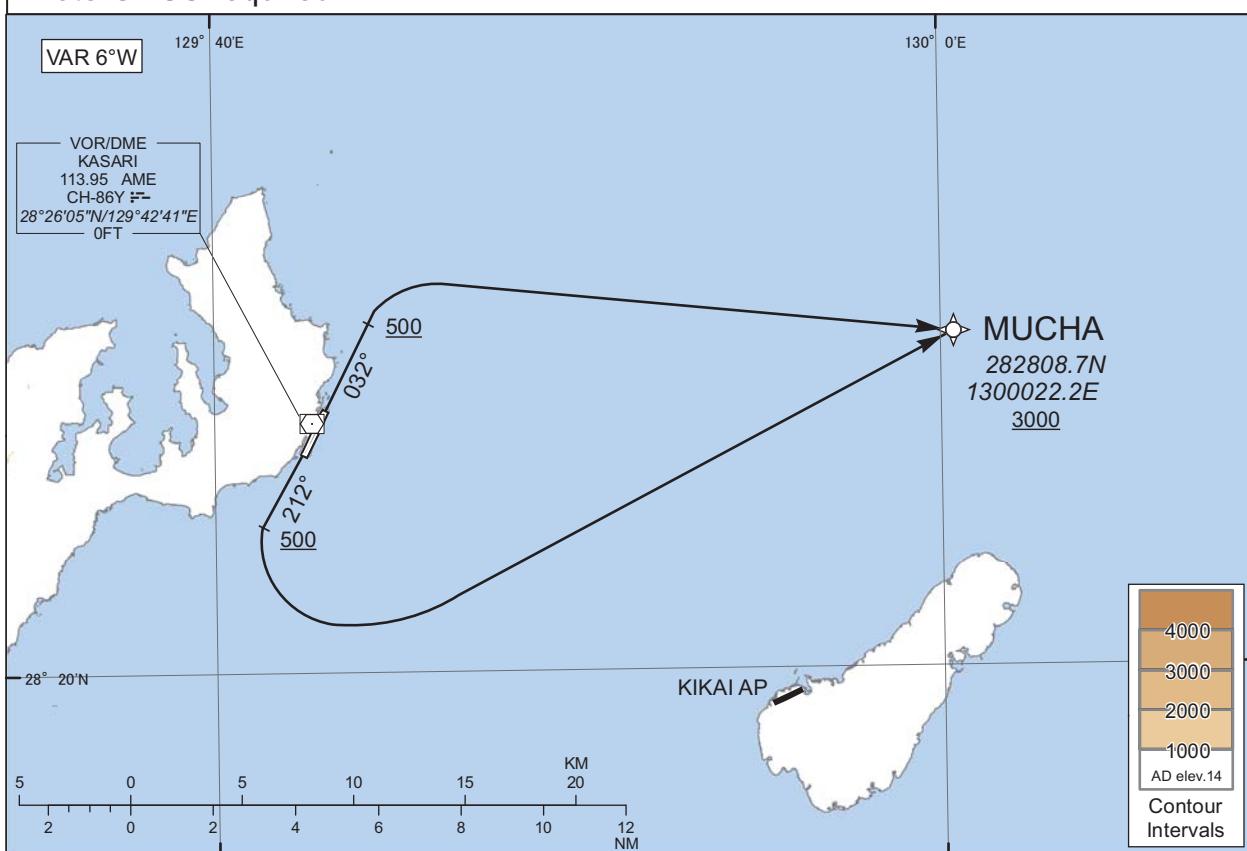
RJKA / AMAMI

RNAV SID

MUCHA TWO DEPARTURE

RNP1

Note GNSS required.



RWY03 : Climb on HDG032° at or above 500FT, turn right direct to MUCHA at or above 3000FT.

RWY21 : Climb on HDG212° at or above 500FT, turn left direct to MUCHA at or above 3000FT.

Note RWY03 : 3.5% climb gradient required up to 500FT.

OBST ALT 197FT located at 1.1NM 015° FM end of RWY03.

RWY03

| Serial Number | Path Descriptor | Way point Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|----------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | - | - | 032 (025.8) | -6.4 | - | - | +500 | - | - | RNP1 |
| 002 | DF | MUCHA | - | - | -6.4 | - | R | +3000 | - | - | RNP1 |

RWY21

| Serial Number | Path Descriptor | Way point Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|----------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | - | - | 212 (205.8) | -6.4 | - | - | +500 | - | - | RNP1 |
| 002 | DF | MUCHA | - | - | -6.4 | - | L | +3000 | - | - | RNP1 |

CHANGE : Navigation Specification(Basic RNP1→RNP1).

STANDARD DEPARTURE CHART -INSTRUMENT

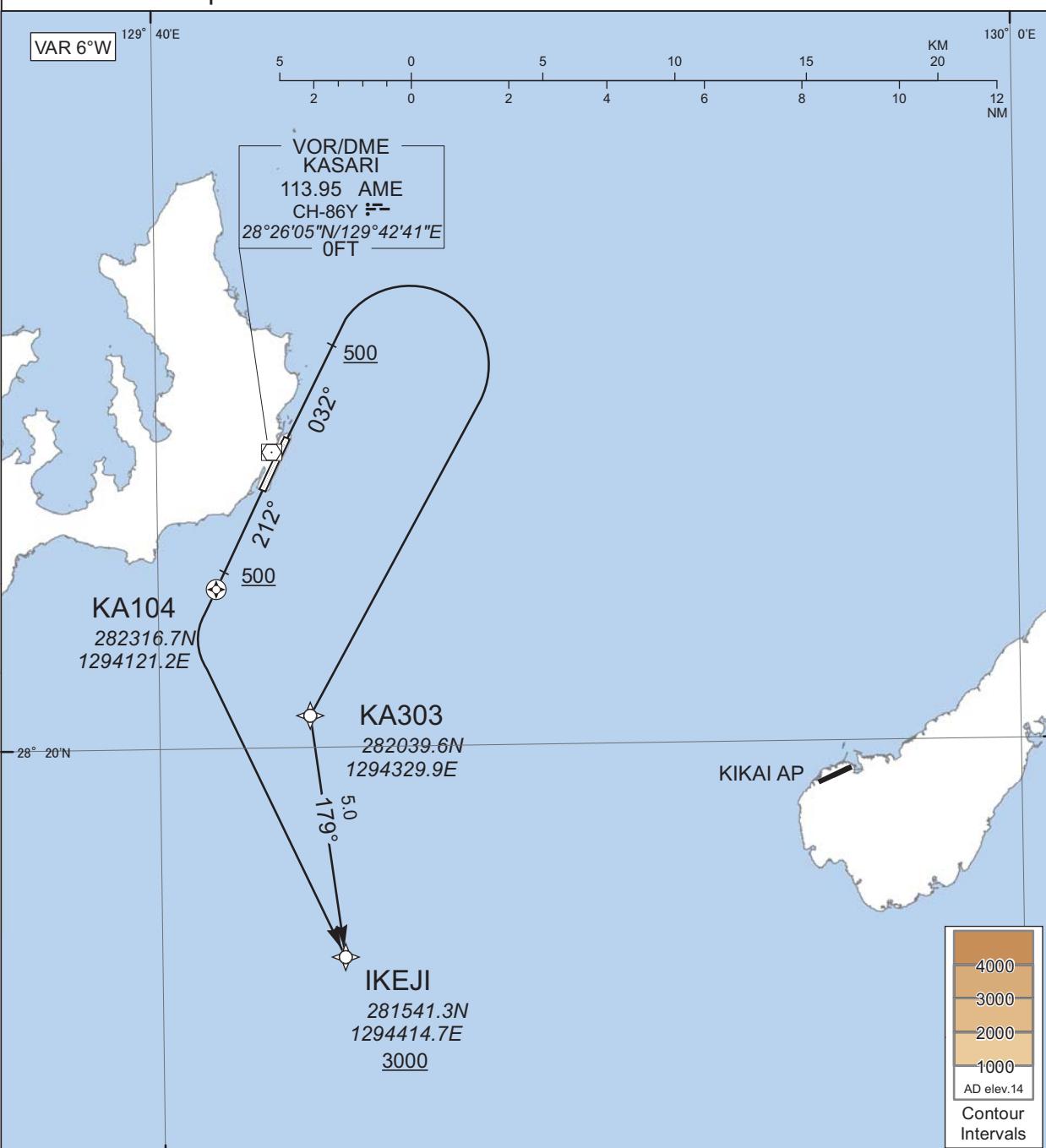
RJKA / AMAMI

RNAV SID

IKEJI ONE DEPARTURE

RNP1

Note GNSS required.



CHANGE : Navigation Specification(Basic RNP1→RNP1)

RWY03 : Climb on HDG032° at or above 500FT, turn right direct to KA303, to IKEJI at or above 3000FT.

RWY21 : Climb on HDG212° at or above 500FT, direct to KA104, turn left direct to IKEJI at or above 3000FT.

Note RWY03 : 5.0% climb gradient required up to 500FT.

RWY21 : 5.0% climb gradient required up to 500FT.

STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

RNAV SID

IKEJI ONE DEPARTURE

RWY03

| 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 | - | - | 032 (025.8) | -6.4 | - | - | +500 | - | - | RNP1 |
| 002 | DF | KA303 | - | - | -6.4 | - | R | - | - | - | RNP1 |
| 003 | TF | IKEJI | - | 179 (172.5) | -6.4 | 5.0 | - | +3000 | - | - | RNP1 |

RWY21

| 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 | - | - | 212 (205.8) | -6.4 | - | - | +500 | - | - | RNP1 |
| 002 | DF | KA104 | Y | - | -6.4 | - | - | - | - | - | RNP1 |
| 003 | DF | IKEJI | - | - | -6.4 | - | L | +3000 | - | - | RNP1 |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

SID

PINNE SIX DEPARTURE

RWY 03 : Climb RWY HDG to 700FT, turn right HDG273° to intercept and proceed...

RWY 21 : Climb RWY HDG to AME 3.0DME, turn right,...

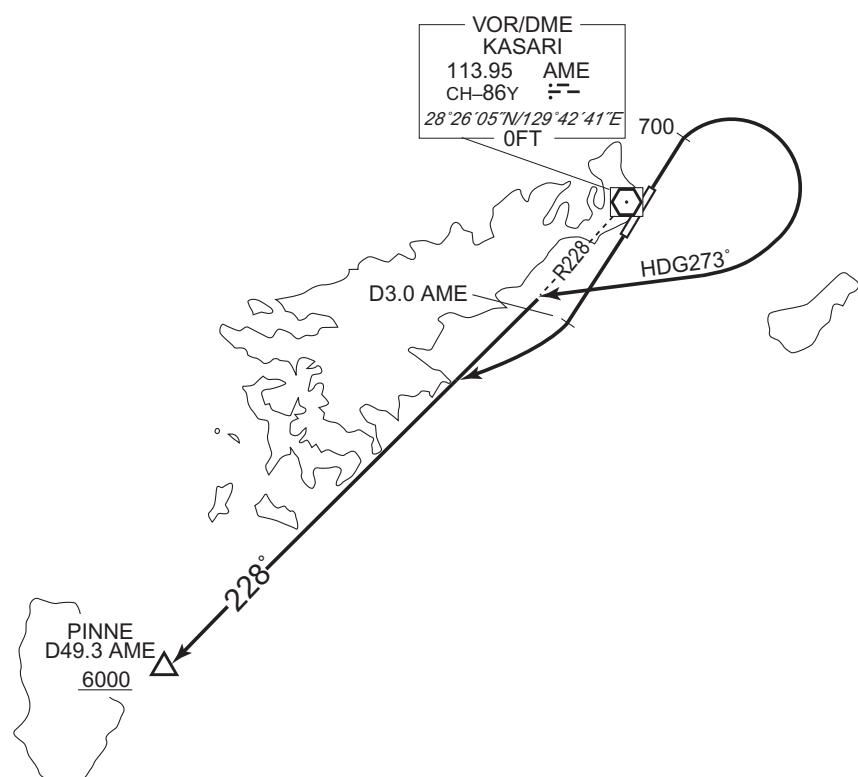
... via AME R228 to PINNE.

Cross PINNE at or above 6000FT.

NOTE RWY03 : 3.5% climb gradient required up to 700FT.

OBST ALT 197FT located at 1.1NM 015° FM end of RWY03.

CHANGE : PROC renamed(PINNE SIX DEPARTURE). Note added. ERABU FOUR DEPARTURE abolished.



STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

SID

KASARI REVERSAL THREE DEPARTURE

RWY03 : Climb RWY HDG to 1000FT,turn right,...

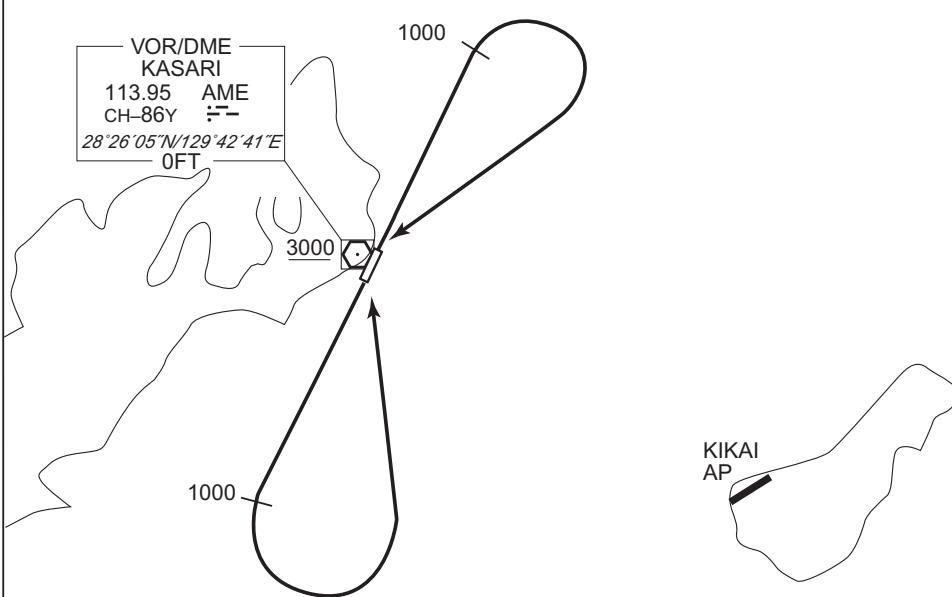
RWY21 : Climb RWY HDG to 1000FT,turn left,...

...direct to AME VOR/DME. Cross AME VOR/DME at or above 3000FT.

NOTE RWY03 : 3.5% climb gradient required up to 1000FT.

OBST ALT 197FT located at 1.1NM 015° FM end of RWY03.

CHANGE : PROC renamed(KASARI REVERSAL THREE DEPARTURE). Note added. POMAS FOUR DEPARTURE abolished.



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STANDARD ARRIVAL CHART-INSTRUMENT

RJKA / AMAMI

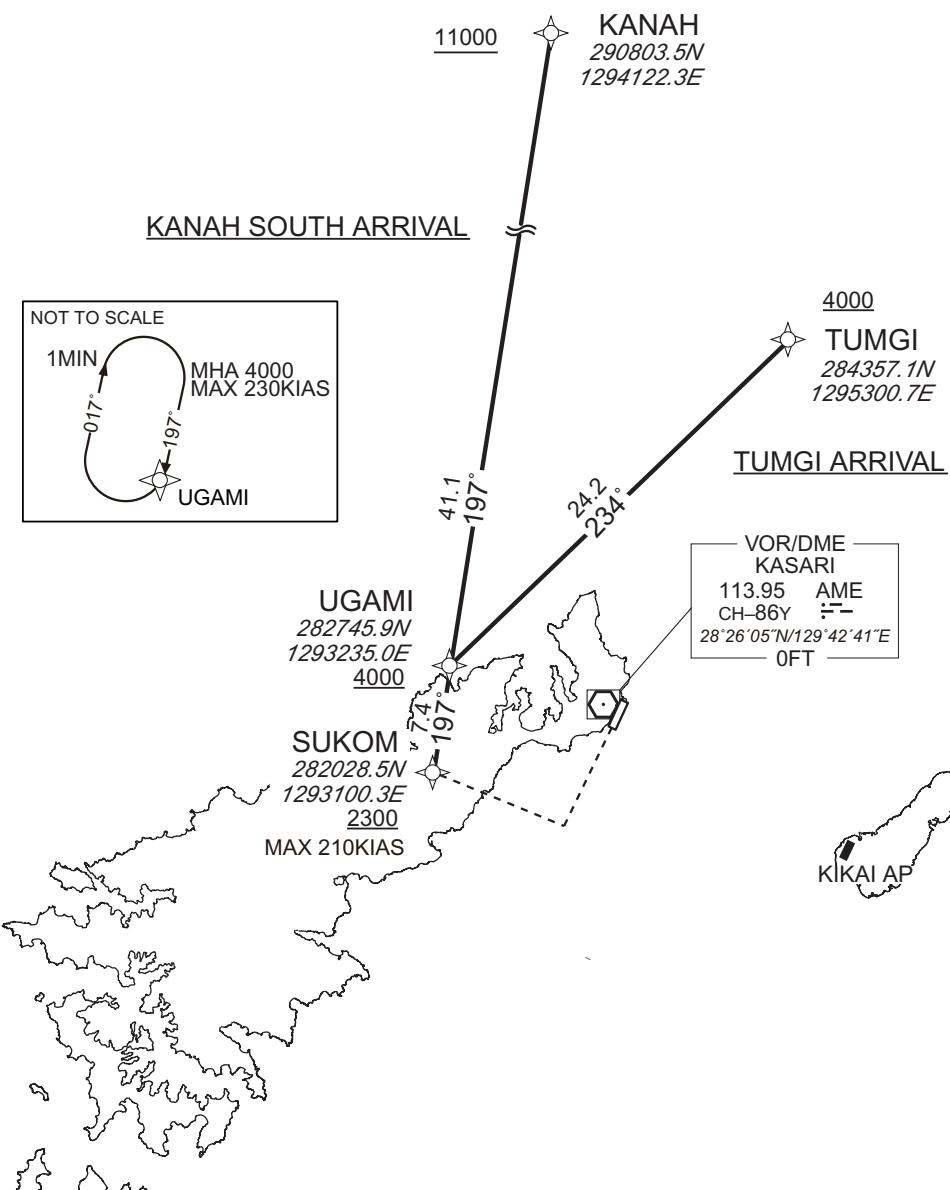
RNAV STAR RWY03

KANAH SOUTH ARRIVAL / TUMGI ARRIVAL

RNP1

Note GNSS required.

VAR 6°W



STANDARD ARRIVAL CHART-INSTRUMENT

RJKA / AMAMI

RNAV STAR RWY03

KANAH SOUTH ARRIVAL

From KANAH at or above 11000FT, to UGAMI at or above 4000FT, to SUKOM at or above 2300FT.

| 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 | KANAH | - | - | -6.3 | - | - | +11000 | - | - | RNP1 |
| 002 | TF | UGAMI | - | 197 (190.9) | -6.3 | 41.1 | - | +4000 | - | - | RNP1 |
| 003 | TF | SUKOM | - | 197 (190.8) | -6.3 | 7.4 | - | +2300 | -210 | - | RNP1 |

TUMGI ARRIVAL

From TUMGI at or above 4000FT, to UGAMI at or above 4000FT, to SUKOM at or above 2300FT.

| 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 | TUMGI | - | - | -6.3 | - | - | +4000 | - | - | RNP1 |
| 002 | TF | UGAMI | - | 234 (228.0) | -6.3 | 24.2 | - | +4000 | - | - | RNP1 |
| 003 | TF | SUKOM | - | 197 (190.8) | -6.3 | 7.4 | - | +2300 | -210 | - | 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 | UGAMI | 197 (190.8) | -6.3 | 1.0 (-14000) | R | 4000 | FL140 | -230 (-14000) | RNP1 |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD ARRIVAL CHART-INSTRUMENT

RJKA / AMAMI

RNAV STAR RWY21

KANAH NORTH ARRIVAL
YUWAN NORTH ARRIVAL

RNP1

Note GNSS required.

VAR 6°W

KANAH
290803.5N
1294122.3E

11000

30.1
185°

KANAH NORTH ARRIVAL

KYORA
283758.8N
1294212.3E
3500

VOR/DME
KASARI
113.95 AME
CH-86Y
28°26'05"N/129°42'41"E
0FT

KIKAI AP

YUWAN NORTH ARRIVAL

YUWAN
281109.8N
1292733.3E



CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD ARRIVAL CHART-INSTRUMENT

RJKA / AMAMI

RNAV STAR RWY21

KANAH NORTH ARRIVAL

From KANAH at or above 11000FT, to KYORA at or above 3500FT.

| 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 | KANAH | - | - | -6.2 | - | - | +11000 | - | - | RNP1 |
| 002 | TF | KYORA | - | 185 (178.6) | -6.2 | 30.1 | - | +3500 | - | - | RNP1 |

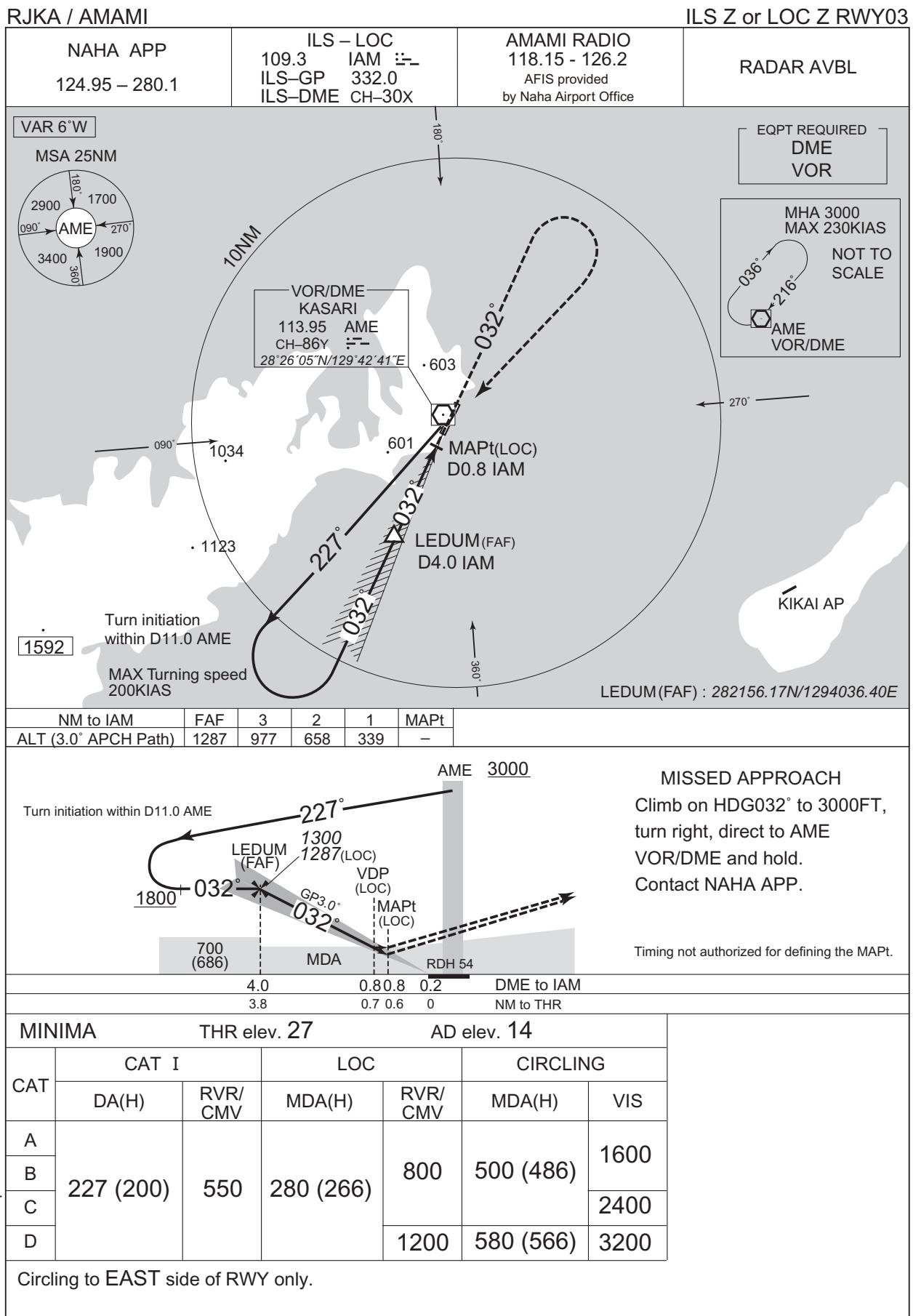
YUWAN NORTH ARRIVAL

From YUWAN, to KYORA at or above 3500FT.

| 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 | YUWAN | - | - | -6.2 | - | - | - | - | - | RNP1 |
| 002 | TF | KYORA | - | 032 (025.6) | -6.2 | 29.8 | - | +3500 | - | - | RNP1 |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJKA / AMAMI

ILS Y or LOC Y RWY03

NAHA APP
124.95 – 280.1

ILS - LOC
109.3 IAM
ILS-GP 332.0
ILS-DME CH-30X

AMAMI RADIO
118.15 - 126.2
AFIS provided by Naha Airport Office

RADAR AVBL

VAR 6°W

MSA 25NM

Using NAVAID
NOT TO SCALE

RNAV HLDG
NOT TO SCALE

1MIN

YUWAN
281109.8N (IAF)
1292733.3E 4000

KA359
281910.3N
1293404.2E
2300
MAX 210KIAS

KA360
281258.6N
1293036.4E
2200
MAX 210KIAS

1733

SAMAX (IF)
D9.0 IAM
281726.3N
1293808.2E
MAX 210KIAS

LEDUM (FAF)
D4.0 IAM

IKYUN (IAF)
281514.3N
1294315.0E
3000
MAX 210KIAS

AME
113.95 AME
CH-86Y
28°26'05"N/129°42'41"E

10NM

603
601

MAPt(LOC)
D0.8 IAM

NOTE: For Initial approach segment;
(1) RNP1.
(2) GNSS required.

KIKAI AP

RNAV HLDG
NOT TO SCALE

IKYUN
013°
193°
1MIN

LEDUM (FAF) : 282156.17N/1294036.40E

| NM to IAM | FAF | 3 | 2 | 1 | MAPt | |
|----------------------|------|-----|-----|-----|------|--|
| ALT (3.0° APCH Path) | 1287 | 977 | 658 | 339 | – | |

MISSED APPROACH
Climb on HDG032° to 3000FT, turn right, direct to AME VOR/DME and hold. Contact NAHA APP.

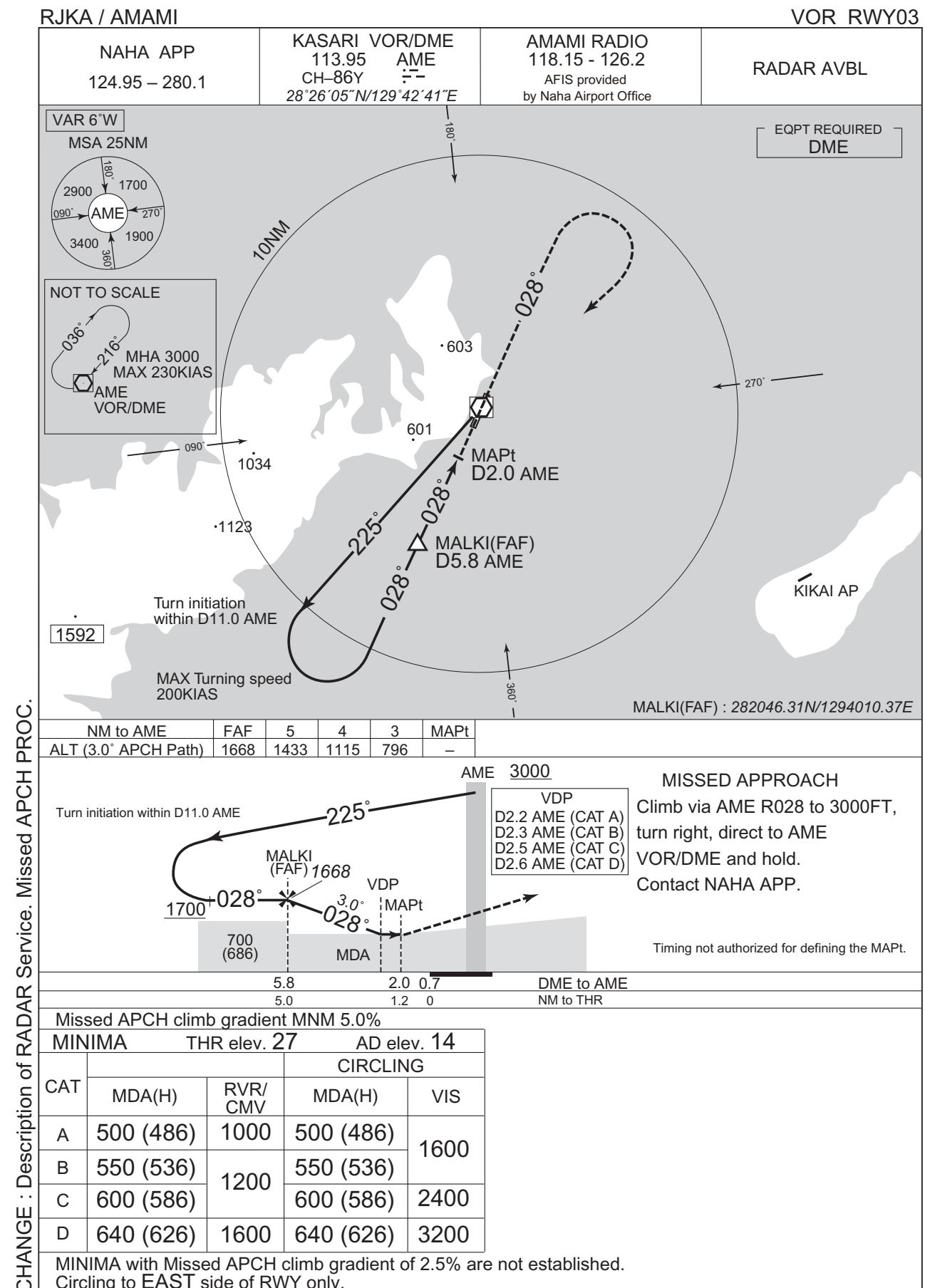
Timing not authorized for defining the MAPt.

MINIMA
THR elev. 27 AD elev. 14

| CAT | CAT I | | LOC | | CIRCLING | |
|-----|-----------|---------|-----------|---------|-----------|------|
| | DA(H) | RVR/CMV | MDA(H) | RVR/CMV | MDA(H) | VIS |
| A | | | | | | |
| B | 227 (200) | 550 | 280 (266) | 800 | 500 (486) | 1600 |
| C | | | | | | 2400 |
| D | | | | 1200 | 580 (566) | 3200 |

Circling to EAST side of RWY only.

INSTRUMENT APPROACH CHART



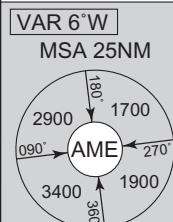
INSTRUMENT APPROACH CHART

RJKA / AMAMI

VOR RWY21

NAHA APP
124.95 – 280.1KASARI VOR/DME
113.95 AME
CH-86Y $\frac{1}{2}$
28°26'05"N/129°42'41"EAMAMI RADIO
118.15 - 126.2
AFIS provided
by Naha Airport Office

RADAR AVBL



NOT TO SCALE
AME VOR/DME
MHA 3000
MAX 230KIAS

10NM

MAX Turning speed
200KIASEQPT REQUIRED
DMETurn initiation
within D11.0 AMETECHI(FAF)
D5.4 AME
MAPt
D0.7 AME

603

601

1034

1123

1592

KIKAI AP

TECHI(FAF) : 283044.34N/1294543.97E

| | NM to AME | MAPt | 3 | 4 | 5 | FAF |
|----------------------|-----------|------|------|------|------|-----|
| ALT (3.0° APCH Path) | – | 904 | 1222 | 1541 | 1656 | |

MISSED APPROACH

Climb via AME R216 to 3000FT,
turn right, direct to AME
VOR/DME and hold.
Contact NAHA APP.

VDP
D1.9 AME (CAT A)
D2.0 AME (CAT B)
D2.2 AME (CAT C)
D2.3 AME (CAT D)

AME 3000

MAPt

VDP

MDA

700
(686)Turn initiation
within D11.0 AMETECHI
(FAF) 1656

1300

216°

3.0°

216°

052°

0.40.7

5.4

0 0.3

5.0

Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 14

AD elev. 14

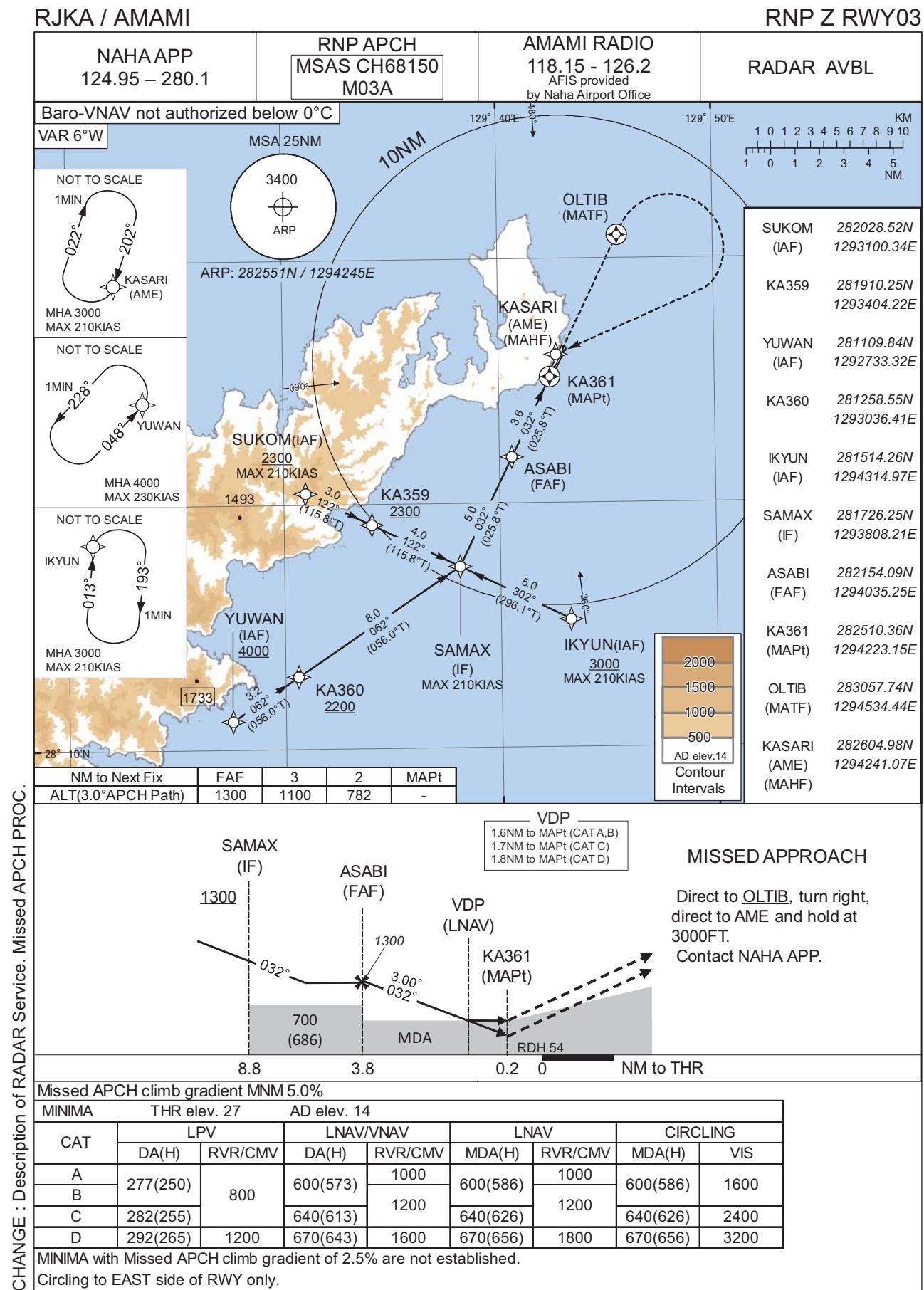
CIRCLING

| CAT | MINIMA | | THR elev. 14 | | AD elev. 14 | |
|-----|-----------|------|--------------|------|-------------|--|
| | MDA(H) | CMV | MDA(H) | VIS | | |
| A | 530 (516) | 1500 | 530 (516) | 1600 | | |
| | 580 (566) | | 580 (566) | | | |
| C | 630 (616) | 1800 | 630 (616) | 2400 | | |
| D | 660 (646) | 2000 | 660 (646) | 3200 | | |

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

CHANGE : Description of RADAR Service. Missed APCH PROC.

INSTRUMENT APPROACH CHART



CHANGE : Description of RADAR Service, Missed APCH PROC.

INSTRUMENT APPROACH CHART

RJKA / AMAMI

RNP Z RWY03

FAS DATA BLOCK

| | | | |
|----------------------------------|---------------|----------------------------|---------------|
| Operation type | 0 | LTP/FTP ellipsoidal height | +00373 |
| SBAS service provider identifier | 2 | FPAP latitude | 282619.5815N |
| Airport identifier | RJKA | FPAP longitude | 1294301.2745E |
| Runway | 03 | Threshold crossing height | 00016.5 |
| Approach performance designator | 0 | TCH units selector | 1 |
| Route indicator | Z | Glide path angle | 03.00 |
| Reference path data selector | 0 | Course width at threshold | 105.00 |
| Reference path ID | M03A | △ length offset | 0000 |
| LTP/FTP latitude | 282521.1620N | HAL | 40.0 |
| LTP/FTP longitude | 1294229.1275E | VAL | 50.0 |
| CRC remainder | 2C1731A7 | | |

Required additional data

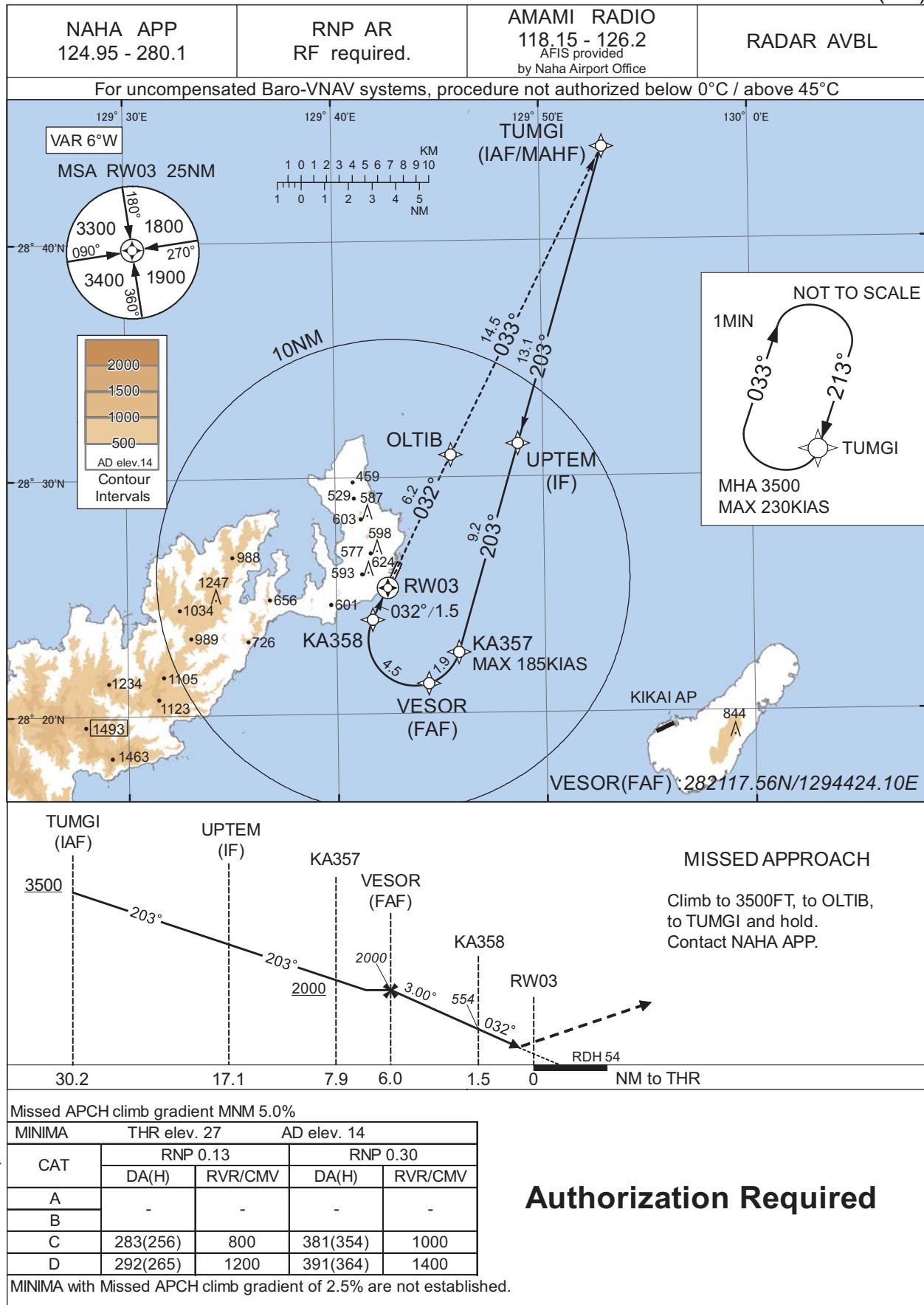
| | |
|----------------------------|-----|
| LTP/FTP orthometric height | 8.5 |
|----------------------------|-----|

CHANGE : New PROC.

INSTRUMENT APPROACH CHART

RJKA / AMAMI

RNP Y RWY03(AR)



Authorization Required

INSTRUMENT APPROACH CHART

RJKA / AMAMI

RNP Y RWY03(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 | TUMGI | - | - | -6.4 | - | - | +3500 | - | - | - |
| 002 | TF | UPTEM | - | 203 (196.4) | -6.4 | 13.1 | - | - | - | - | 0.3 |
| 003 | TF | KA357 | - | 203 (196.4) | -6.4 | 9.2 | - | +2000 | -185 | - | 0.3 |
| 004 | RF Center: KARF2 r=1.95NM | VESOR | - | - | -6.4 | 1.9 | R | 2000 | - | - | 0.3 |
| 005 | RF Center: KARF2 r=1.95NM | KA358 | - | - | -6.4 | 4.5 | R | 554 | - | -3.00 | 0.13 0.30 |
| 006 | TF | RW03 | Y | 032 (025.8) | -6.4 | 1.5 | - | 81 | - | -3.00/54 | 0.13 0.30 |
| 007 | TF | OLTIB | - | 032 (025.8) | -6.4 | 6.2 | - | - | - | - | 1.0 |
| 008 | TF | TUMGI | - | 033 (026.7) | -6.4 | 14.5 | - | 3500 | - | - | 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 | TUMGI | 213 (207.0) | -6.3 | 1.0 (-14000) | R | 3500 | FL140 | -230 (-14000) | 1.0 |

Waypoint Coordinates

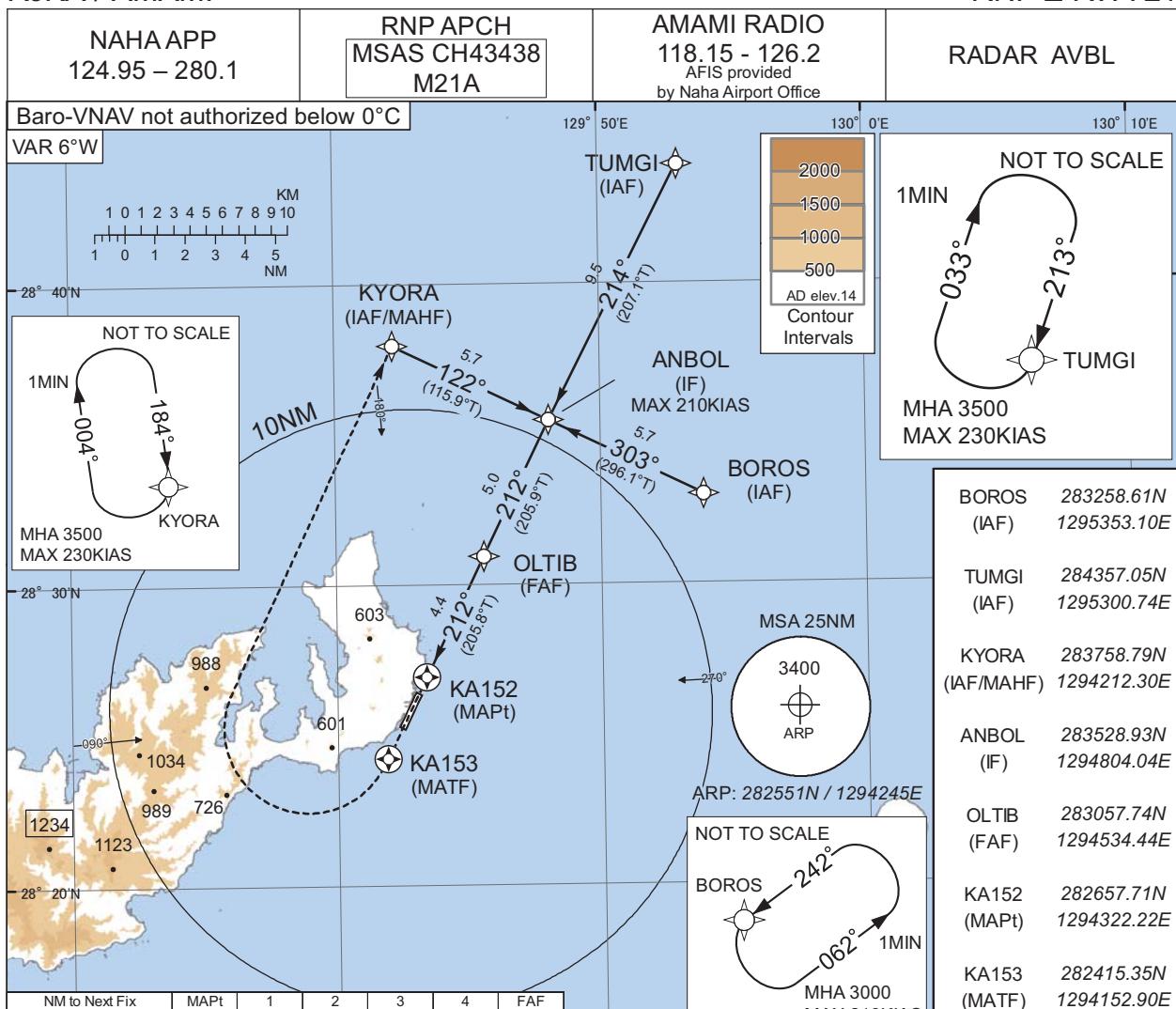
| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|--------------------------|--------------------------|--------------------------|
| TUMGI | 284357.05N / 1295300.74E | KARF2 | 282309.49N / 1294344.25E |
| UPTEM | 283124.97N / 1294848.31E | | |
| KA357 | 282236.27N / 1294551.51E | | |
| VESOR | 282117.56N / 1294424.10E | | |
| KA358 | 282400.82N / 1294144.91E | | |
| RW03 | 282521.18N / 1294229.11E | | |
| OLTIB | 283057.74N / 1294534.44E | | |

CHANGE : PROC renamed. PROC course, UPTEM, KA357, VESOR, KA358, OLTIB established. YANGO, KA353, JOUGO, KA351, HABUH abolished.
RNP Value FM UPTEM to VESOR. RF Arc Center Identifier (KARF2 added, KARF1 deleted). Waypoint Coordinates (RW03), VAR.

INSTRUMENT APPROACH CHART

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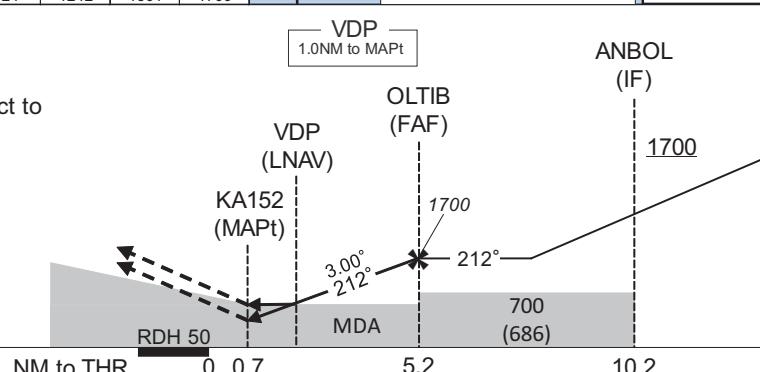
RNP Z RWY21



CHANGE : Description of RADAR Service. Missed APCH PROC.

MISSED APPROACH

Direct to KA153, turn right, direct to KYORA and hold at 3500FT. Contact NAHA APP.



Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 14 AD elev. 14

| CAT | LPV | | LNAV/VNAV | | LNAV | | CIRCLING | |
|-----|----------|------|-----------|------|----------|------|----------|------|
| | DA(H) | CMV | DA(H) | CMV | MDA(H) | CMV | MDA(H) | VIS |
| A | 267(253) | 1200 | 600(586) | 1500 | 600(586) | 1500 | 600(586) | 1600 |
| B | 277(263) | 1300 | | 1800 | | 1800 | | 2400 |
| C | 287(273) | 1400 | | 2000 | | 2000 | | 3200 |
| D | 297(283) | 1600 | | | | | | |

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

Circling to EAST side of RWY only.

INSTRUMENT APPROACH CHART

RJKA / AMAMI

RNP Z RWY21

FAS DATA BLOCK

| | | | |
|----------------------------------|---------------|----------------------------|---------------|
| Operation type | 0 | LTP/FTP ellipsoidal height | +00333 |
| SBAS service provider identifier | 2 | FPAP latitude | 282521.1620N |
| Airport identifier | RJKA | FPAP longitude | 1294229.1275E |
| Runway | 21 | Threshold crossing height | 00015.0 |
| Approach performance designator | 0 | TCH units selector | 1 |
| Route indicator | Z | Glide path angle | 03.00 |
| Reference path data selector | 0 | Course width at threshold | 105.00 |
| Reference path ID | M21A | △ length offset | 0000 |
| LTP/FTP latitude | 282619.5815N | HAL | 40.0 |
| LTP/FTP longitude | 1294301.2745E | VAL | 50.0 |
| CRC remainder | A4D8FDB0 | | |

Required additional data

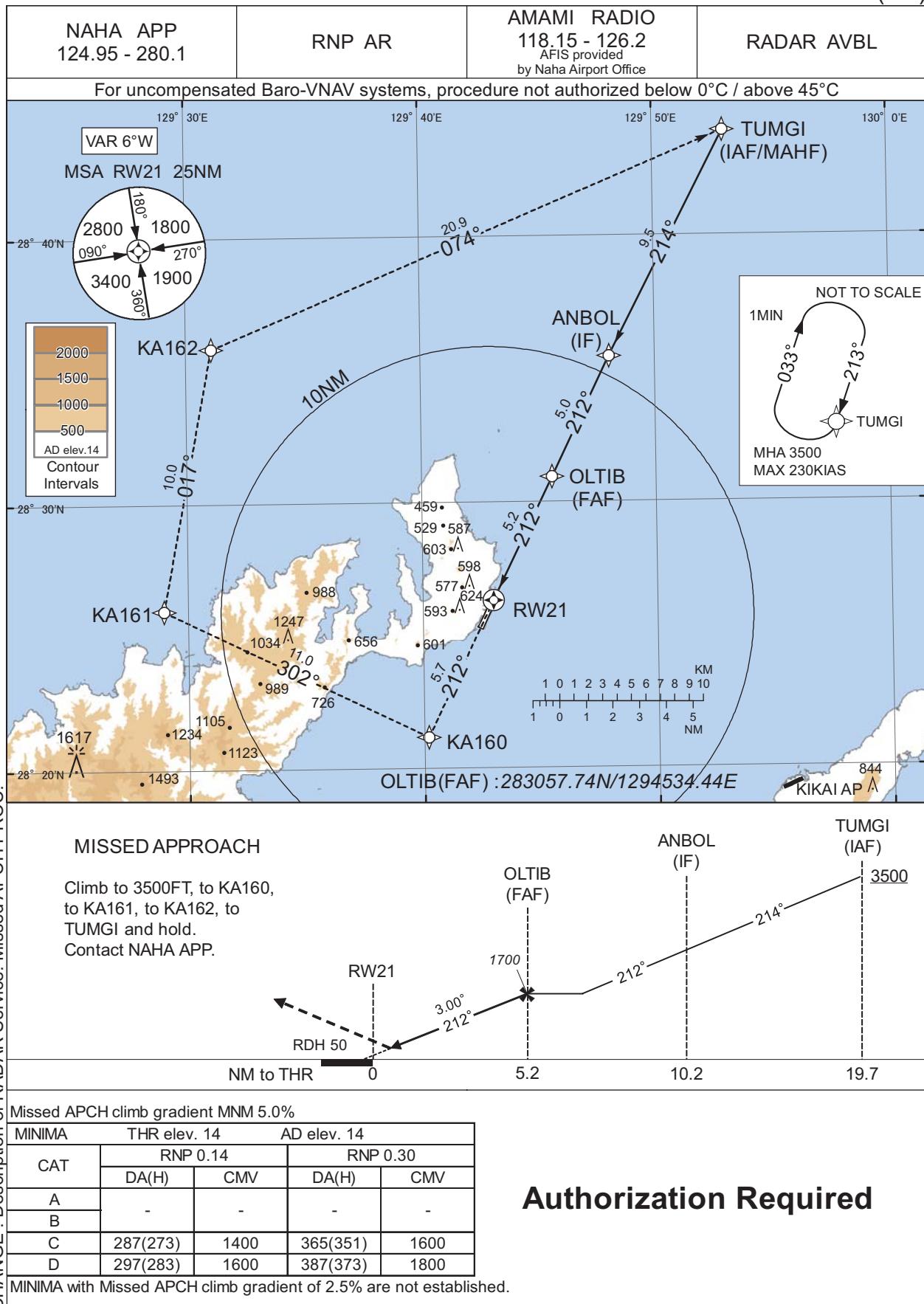
| | |
|----------------------------|-----|
| LTP/FTP orthometric height | 4.5 |
|----------------------------|-----|

CHANGE : FAS DATA BLOCK and Required additional data established.

INSTRUMENT APPROACH CHART

RJKA / AMAMI

RNP Y RWY21(AR)



Authorization Required

INSTRUMENT APPROACH CHART

RJKA / AMAMI

RNP Y RWY21(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 | TUMGI | - | - | -6.4 | - | - | +3500 | - | - | - |
| 002 | TF | ANBOL | - | 214 (207.1) | -6.4 | 9.5 | - | - | - | - | 1.0 |
| 003 | TF | OLTIB | - | 212 (205.9) | -6.4 | 5.0 | - | 1700 | - | - | 1.0 |
| 004 | TF | RW21 | Y | 212 (205.8) | -6.4 | 5.2 | - | 64 | - | -3.00/50 | 0.14 0.30 |
| 005 | TF | KA160 | - | 212 (205.8) | -6.4 | 5.7 | - | - | - | - | 1.0 |
| 006 | TF | KA161 | - | 302 (296.0) | -6.4 | 11.0 | - | - | - | - | 1.0 |
| 007 | TF | KA162 | - | 017 (010.7) | -6.4 | 10.0 | - | - | - | - | 1.0 |
| 008 | TF | TUMGI | - | 074 (067.1) | -6.4 | 20.9 | - | 3500 | - | - | 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 | TUMGI | 213 (207.0) | -6.3 | 1.0 (-14000) | R | 3500 | FL140 | -230 (-14000) | 1.0 |

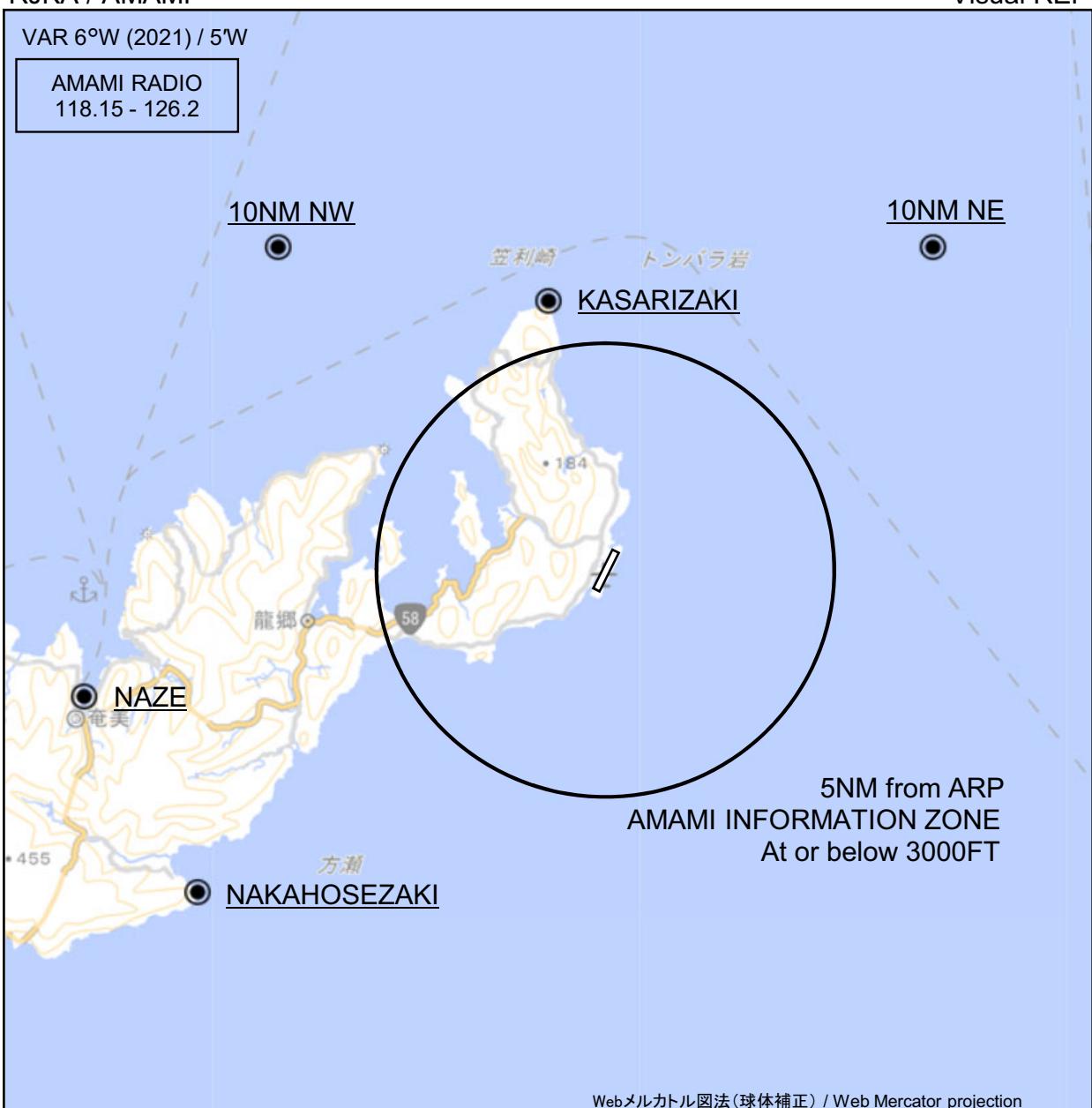
Waypoint Coordinates

| Waypoint Identifier | Coordinates |
|---------------------|--------------------------|
| TUMGI | 284357.05N / 1295300.74E |
| ANBOL | 283528.93N / 1294804.04E |
| OLTIB | 283057.74N / 1294534.44E |
| RW21 | 282619.61N / 1294301.26E |
| KA160 | 282111.47N / 1294011.84E |
| KA161 | 282600.04N / 1292858.96E |
| KA162 | 283551.31N / 1293105.90E |

CHANGE : PROC course, ANBOL, OLTIB, KA160 established. IMORE, HABUH, KA101 abolished.

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Visual REP



CHANGE : Map updated. BRG/DIST from ARP.

※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).

| Call sign | BRG / DIST from ARP | Remarks |
|----------------------|---------------------|--------------------|
| 10NM NE | 045°T / 10.0NM | 海上 Over the sea |
| 10NM NW | 315°T / 10.0NM | 海上 Over the sea |
| 笠利崎 Kasarizaki | 348°T / 6.0NM | 灯台 Lighthouse |
| 名瀬 Naze | 256°T / 11.7NM | 港 Harbor |
| 仲干瀬崎 Nakahosezaki | 231°T / 11.4NM | 岬 Cape |

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Minimum Vectoring Altitude CHART

CHANGE : Shape of segment. Minimum vectoring altitude.

