

## AD 2 AERODROMES

## ROYN AD 2.1 AERODROME LOCATION INDICATOR AND NAME

## ROYN - YONAGUNI

## ROYN AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

|   |  |  |
|---|--|--|
| 1 | ARP coordinates and site at AD   | 242803N/1225847E<br>075°/1.00km from RWY 08 THR  |
| 2 | Direction and distance from (city)   | 124km W from ISHIGAKI City   |
| 3 | Elevation/ Reference temperature   | 49ft / 32.7°C(2001 - 2005)   |
| 4 | Geoid undulation at AD ELEV<br>PSN   | 76ft   |
| 5 | MAG VAR/ Annual change   | 3°44'(2006) / Annual Change 0°03'W   |
| 6 | AD Administration, address,<br>telephone, telefax, telex, AFS,<br>e-mail and/or Web-site addresses | OKINAWA PREF. Public AP.<br>4350, Aza-Yonaguni, Yonaguni-cho, Yaeyama-gun, Okinawa Pref<br>Tel 0980-87-8375, 0980-87-3266<br>Fax 0980-87-2913,<br>E-mail:aa063002@pref.okinawa.lg.jp<br>Web: <a href="http://www.pref.okinawa.jp/">http://www.pref.okinawa.jp/</a> |
| 7 | Types of traffic permitted (IFR/<br>VFR)   | IFR/VFR  |
| 8 | Remarks  | Nil  |

## ROYN AD 2.3 OPERATIONAL HOURS

|    |                           |   |
|----|---------------------------|---|
| 1  | AD Administration         | 2300 - 1030   |
| 2  | Customs and immigration   | On request<br>Customs: 0980-87-2804<br>Immigration: 0980-82-2333              |
| 3  | Health and sanitation     | Quarantine(human): On request(0980-82-4940)<br>Quarantine(animal, plant): Nil |
| 4  | AIS Briefing Office       | Nil   |
| 5  | ATS Reporting Office(ARO) | Nil   |
| 6  | MET Briefing Office       | H24 (NAHA)  |
| 7  | ATS                       | 2300 - 1030<br>Remarks: AFIS provided by Naha Airport Office.                 |
| 8  | Fuelling                  | Nil   |
| 9  | Handling                  | 2300 - 1030   |
| 10 | Security                  | 2300 - 1030   |
| 11 | De-icing                  | Nil   |
| 12 | Remarks                   | Nil   |

**ROYN AD 2.4 HANDLING SERVICES AND FACILITIES**

|   |   |                       |
|---|---|-----------------------|
| 1 | Cargo-handling facilities               | Ask AD Administration |
| 2 | Fuel/ oil types                         | Nil                   |
| 3 | Fuelling facilities/ capacity           | Nil                   |
| 4 | De-icing facilities                     | Nil                   |
| 5 | Hangar space for visiting aircraft      | Nil                   |
| 6 | Repair facilities for visiting aircraft | Nil                   |
| 7 | Remarks                                 | Nil                   |

**ROYN AD 2.5 PASSENGER FACILITIES**

|   |                      |                              |
|---|----------------------|------------------------------|
| 1 | Hotels               | Hotels in Yonaguni-cho       |
| 2 | Restaurants          | Restaurants in Yonaguni-cho  |
| 3 | Transportation       | Busses and Taxis             |
| 4 | Medical facilities   | Clinic in Yonaguni-cho 4.0km |
| 5 | Bank and Post Office | Post Office in Yonaguni-cho  |
| 6 | Tourist Office       | Nil                          |
| 7 | Remarks              | Nil                          |

**ROYN AD 2.6 RESCUE AND FIRE FIGHTING SERVICES**

|   |   |  |
|---|---|--|
| 1 | AD category for fire fighting               | CAT 7  |
| 2 | Rescue equipment                            | Chemical fire fighting truck (6,000-Liter Class) x 2<br>Chemical fire fighting truck (3,000-Liter Class) x 1 |
| 3 | Capability for removal of disabled aircraft | Incapable  |
| 4 | Remarks                                     | Nil  |

**ROYN AD 2.7 SEASONAL AVAILABILITY-CLEARING**

|   |                             |                |
|---|-----------------------------|----------------|
| 1 | Types of clearing equipment | Not Applicable |
| 2 | Clearance priorities        | Not Applicable |
| 3 | Remarks                     | Nil            |

## ROYN AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

|   |                                     |   |
|---|-------------------------------------|---|
| 1 | Apron surface and strength          | Surface: Asphalt-concrete<br>Strength: PCN 40/F/A/X/T                   |
| 2 | Taxiway width, surface and strength | Width: 23m<br>Surface: Asphalt-concrete<br>Strength: PCN 52/F/A/X/T     |
| 3 | ACL and elevation                   | Not Available   |
| 4 | VOR checkpoints                     | Not Available   |
| 5 | INS checkpoints                     | Spot NR<br>S-1 : 242756.96N/1225845.44E<br>S-2 : 242757.51N/1225847.70E |
| 6 | Remarks                             | Nil   |

## ROYN AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

|   |  |   |
|---|--|---|
| 1 | Use of aircraft stand ID signs, TWY guide lines and Visual docking/ parking guidance system of aircraft stands | Nil   |
| 2 | RWY and TWY markings and LGT   | RWY: RWY08/26<br>(Marking): RWY designation, RWY CL, RWY THR, RWY middle point, TDZ, RWY side stripes, Aiming point<br>(LGT): RCLL, REDL, RENL, RTHL<br>TWY:<br>(Marking): TWY CL, RWY HLDG PSN, TWY side stripe<br>(LGT): TWY edge LGT, TWY CL LGT |
| 3 | Stop bars  | Nil   |
| 4 | Remarks  | (Marking): Overrun area, Apron TWY CL<br>(LGT): Apron flood LGT   |

**ROYN AD 2.10 AERODROME OBSTACLES**

In Area2 See Obstacle data

In Area3 To be developed

**ROYN AD 2.11 METEOROLOGICAL INFORMATION PROVIDED**

|    |  |  |
|----|--|--|
| 1  | Associated MET Office  | NAHA   |
| 2  | Hours of service<br>MET Office outside hours                           | H24 (NAHA)   |
| 3  | Office responsible for TAF preparation<br>Periods of validity          | Nil  |
| 4  | Trend forecast<br>Interval of issuance                                 | Nil  |
| 5  | Briefing/ consultation provided  | Briefing is available upon inquiry at NAHA   |
| 6  | Flight documentation<br>Language(s) used                               | C<br>En  |
| 7  | Charts and other information available for<br>briefing or consultation | S <sub>6</sub> , U <sub>85</sub> , U <sub>7</sub> , U <sub>5</sub> , U <sub>3</sub> , U <sub>25</sub> , U <sub>2/T</sub> , P <sub>S</sub> , P <sub>5</sub> , P <sub>3</sub> , P <sub>25</sub> , P <sub>SWE</sub> , P <sub>SWF</sub> , P <sub>SWG</sub> ,<br>P <sub>SWI</sub> , P <sub>SWM</sub> , P <sub>SW</sub> (domestic), E, C, W <sub>E</sub> , W <sub>F</sub> , W <sub>G</sub> , W <sub>I</sub> , W, N |
| 8  | Supplementary equipment<br>available for providing information         | Nil  |
| 9  | ATS units provided with information                                    | RADIO  |
| 10 | Additional information(limitation of service, etc.)                    | Nil  |

## ROYN AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

| Designations<br>RWY NR | TRUE BRG | Dimensions of<br>RWY(M) | Strength(PCN) and<br>surface of RWY | THR coordinates<br>THR geoid undulation | THR elevation and<br>highest elevation of TDZ<br>of precision APP RWY |
|------------------------|----------|-------------------------|-------------------------------------|---|---|
| 1                      | 2        | 3                       | 4                                   | 5                                       | 6   |
| 08                     | 075.27°  | 2000x45                 | PCN 52/F/A/X/T<br>Asphalt-concrete  | 242754.37N<br>1225812.86E<br>76ft       | THR ELEV: 71.9FT  |
| 26                     | 255.27°  | 2000x45                 | PCN 52/F/A/X/T<br>Asphalt-concrete  | 242810.89N<br>1225921.54E<br>76ft       | THR ELEV: 41.6FT  |

| Slope of RWY     | Strip<br>Dimensions(M) | RESA(Overrun)<br>Dimensions(M) | Remarks                    |
|------------------|------------------------|--------------------------------|----------------------------|
| 7                | 10                     | 11                             | 14                         |
| See below figure | 2120x150<br>2120x150   | 91x156<br>200x156              | RWY Grooving : 30m x 2000m |

**LONGITUDINAL PROFILE OF RUNWAY**

The longitudinal profile of the runway is shown with the following data points:

| Distance (m) | Elevation (ft) | Slope (%) |
|--------------|----------------|-----------|
| 0            | 71.9           | -         |
| 1050         | 47.8           | 0.700%    |
| 1625         | 47.8           | LEVEL     |
| 2000         | 41.6           | 0.500%    |

## ROYN AD 2.13 DECLARED DISTANCES

| RWY Designator | TORA<br>(m) | TODA<br>(m) | ASDA<br>(m) | LDA<br>(m) | Remarks |
|----------------|-------------|-------------|-------------|------------|---------|
| 1              | 2           | 3           | 4           | 5          | 6       |
| 08             | 2000        | 2000        | 2000        | 2000       | Nil     |
| 26             | 2000        | 2000        | 2000        | 2000       | Nil     |

## ROYN AD 2.14 APPROACH AND RUNWAY LIGHTING

| RWY<br>Designator   | APCH<br>LGT<br>type<br>LEN<br>INTST | RTHL<br>Color<br>WBAR | PAPI<br>(VASIS)<br>Angle<br>DIST FM<br>THR<br>MEHT | RTZL<br>LEN | RCLL<br>LEN<br>Spacing<br>Color<br>INTST | REDL<br>LEN<br>Spacing<br>Color<br>INTST | RENL<br>Color<br>WBAR | STWL<br>LEN<br>Color |
|---|-------------------------------------|-----------------------|--|-------------|--|--|-----------------------|----------------------|
| 1   | 2                                   | 3                     | 4  | 5           | 6  | 7  | 8                     | 9                    |
| 08  | -                                   | Green<br>-            | PAPI<br>3.0° /LEFT<br>356.1m<br>49ft               | -           | 2,000m<br>30m<br>Coded color<br>LIH      | 2,000m<br>60m<br>Coded color<br>LIH      | Red                   | Nil(*2)              |
| 26  | SALS<br>(*1)<br>420m<br>LIH         | Green<br>-            | PAPI<br>3.0°/LEFT<br>276.6m<br>49ft                | -           | 2,000m<br>30m<br>Coded color<br>LIH      | 2,000m<br>60m<br>Coded color<br>LIH      | Red                   | Nil(*2)              |
| Remarks   |                                     |                       |  |             |  |  |                       |                      |
| 10  |                                     |                       |  |             |  |  |                       |                      |
| SALS with RAI(LEN:360m)(*1)<br>Overrun area edge LGT(LEN:60m Color:Red)(*2)<br>RWY THR ID LGT for RWY 08 THR (Color: White) |                                     |                       |  |             |  |  |                       |                      |

## ROYN AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

|   |  |  |
|---|--|--|
| 1 | ABN/IBN location, characteristics and hours of operation | ABN: 242756N/1225853E, White/Green EV4.3sec, HO      |
| 2 | LDI location and LGT<br>Anemometer location and LGT      | LDI : Nil<br>Anemometer : AVBL                       |
| 3 | TWY edge and centerline lighting                         | TWY edge and center line lights installed, see AD2.9 |
| 4 | Secondary power supply/ switch-over time                 | Within 15sec: All Lights                             |
| 5 | Remarks  | Nil  |

## ROYN AD 2.16 HELICOPTER LANDING AREA

|     |
|-----|
| Nil |
|-----|

## ROYN AD 2.17 ATS AIRSPACE

| Designation and lateral limits |   | Vertical limits (ft) | Airspace classification | ATS unit call sign Language | Remarks |
|--------------------------------|---|----------------------|-------------------------|-----------------------------|---------|
| 1                              |   | 2                    | 3                       | 4                           | 6       |
| Yonaguni Information Zone      | Area within a radius of 5nm of Yonaguni ARP | -----<br>3000        | -                       | Yonaguni<br>Radio<br>En     | Nil     |

## ROYN AD 2.18 ATS COMMUNICATION FACILITIES

| Service designation | Call sign      | Frequency | Hours of operation | Remarks                          |
|---------------------|----------------|-----------|--------------------|----------------------------------|
| 1                   | 2              | 3         | 4                  | 5                                |
| AFIS                | Yonaguni Radio | 118.5MHz  | 2300 - 1030        | Operated by Naha Airport Office. |

## ROYN AD 2.19 RADIO NAVIGATION AND LANDING AIDS

| Type of aid (VOR declination) | ID  | Frequency        | Hours of operation | Position of transmitting antenna coordinates | Elevation of DME transmitting antenna | Remarks   |
|-------------------------------|-----|------------------|--------------------|--|---------------------------------------|---|
| 1                             | 2   | 3                | 4                  | 5  | 6                                     | 7   |
| VOR (5°W/2019)                | YNE | 115.05MHz        | H24                | 242753.72N/1225951.86E                       |                                       | Unusable:   |
| DME                           | YNE | 1058MHz (CH-97Y) | H24                | 242753.72N/1225951.86E                       | 314.6ft                               | 140° -170° beyond 20nm<br>BLW 4000ft.   |
| LOC 26                        | IYN | 108.55MHz        | 2300-1030          | 242752.42N/1225804.79E                       |                                       | LOC 26: 235m (771ft)<br>away FM RWY 08 THR,<br>BRG (MAG) 259°   |
| LOC-DME 26                    | IYN | 1109MHz (CH-22Y) | 2300-1030          | 242750.22N/1225805.42E                       |                                       | DME 26: 235m (771ft)<br>inside FM RWY 08 THR,<br>70m (230ft) S of RCL.<br>ELEV 25.8m (85ft).<br>Unusable: beyond 25°<br>south (90Hz) side of course<br>due to terrain |
| MSAS                          |     | 1575.42MHz       | H24                |  |                                       | Transmitting antennas<br>are satellite based.   |

LOC and LOC-DME for RWY26

REMARKS : 1. LOC beam BRG(MAG) 259°  
2. ELEV of LOC-DME 25.8m(85ft)



UNUSABLE : BEYOND 25DEG SOUTH (90Hz) SIDE OF COURSE DUE TO TERRAIN.



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## ROYN AD 2.20 LOCAL TRAFFIC REGULATIONS

### 1. Airport regulations

On use of YONAGUNI airport, aircraft operator is required to notify Okinawa Pref. in advance.

### 2. Taxiing to and from stands

Nil

### 3. Parking area for small aircraft(General aviation)

Nil

### 4. Parking area for helicopters

Nil

### 5. Apron - taxiing during winter conditions

Nil

### 6. Taxiing - limitations

Nil

### 7. School and training flights - technical test flights - use of runways

Nil

### 8. Helicopter traffic - limitation

Nil

### 9. Removal of disabled aircraft from runways

Nil

## ROYN AD 2.21 NOISE ABATEMENT PROCEDURES

Ask AD administration

## ROYN AD 2.22 FLIGHT PROCEDURES

## TAKE OFF MINIMA

|  | RWY | ACFT<br>CAT | REDL & RCLL                            | REDL or RCLL or<br>RCL Marking         | NIL<br>(DAYTIME ONLY)                  |
|--|-----|-------------|--|--|--|
|  |     |             | CEIL-VIS                               | CEIL-VIS                               | CEIL-VIS                               |
| Multi-Engine<br>ACFT-with<br>TKOF ALTN<br>AP Filed | 08  | A,B,C,D     | 0-400m                                 | 0-400m                                 | 0-500m                                 |
|  | 26  |             | 900-2400m*<br>300-2400m**<br>0-400m*** | 900-2400m*<br>300-2400m**<br>0-400m*** | 900-2400m*<br>300-2400m**<br>0-400m*** |
| OTHER  | 08  | A,B,C,D     | AVBL LDG MINIMA                        |  |  |
|  | 26  |             |  |  |  |

\* Applicable to Conventional Departure in case of not climbing with 9.0%.

\*\*Applicable to RNAV Departure in case of not climbing with 7.2%.

\*\*\*Applicable to Conventional Departure in case of climbing with 9.0% gradient up to 900FT.

\*\*\*Applicable to RNAV Departure in case of climbing with 7.2% gradient up to 600FT.

## ROYN AD 2.23 ADDITIONAL INFORMATION

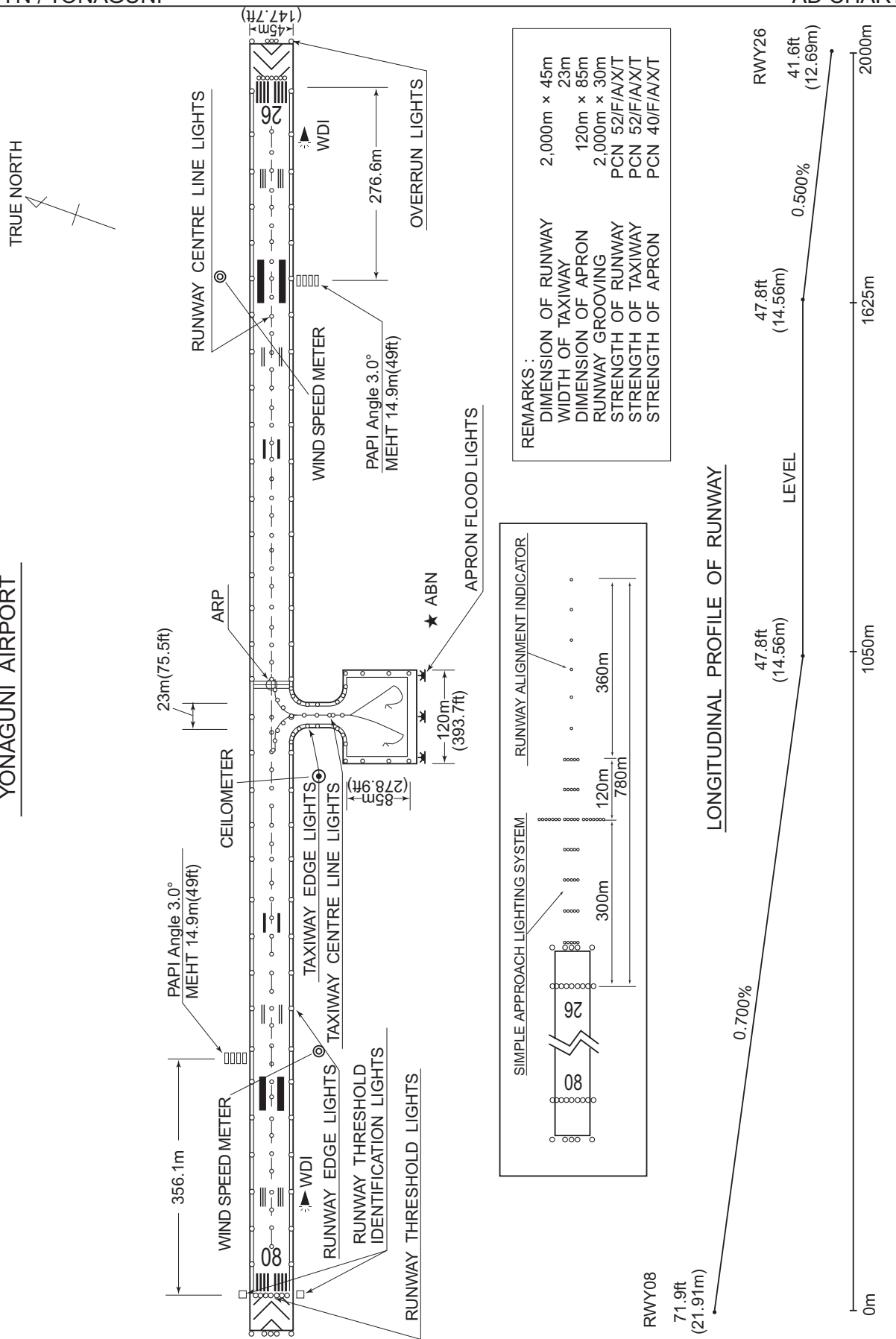
Ask AD administration

## ROYN AD 2.24 CHARTS RELATED TO AN AERODROME

Aerodrome/Heliport Chart  
 Standard Departure Chart - Instrument (TAKZO, ABASA)  
 Standard Departure Chart - Instrument (AYAKA-RNAV)  
 Standard Arrival Chart - Instrument (ABASA-RNAV)  
 Instrument Approach Chart (LOC RWY26)  
 Instrument Approach Chart (VOR RWY26)  
 Instrument Approach Chart (RNAV(GNSS) RWY26)  
 Other Chart (Visual REP)  
 Other Chart (MVA CHART)

### AD CHART

YONAGUNI AIRPORT



## STANDARD DEPARTURE CHART -INSTRUMENT

ROYN / YONAGUNI

SID

TAKZO TWO DEPARTURE

RWY 08 : Climb RWY HDG until 3NM from RWY end/YNE 2.7DME, turn left,...

RWY 26 : Climb RWY HDG until 700FT, turn right,...

...climb via YNE R022 to TAKZO.

Note RWY08 : 6.7% climb gradient required up to 700FT.

OBST ALT 89FT located at 0.1NM 126° FM end of RWY08.

RWY26 : No turn before DER.

In case of climbing with 9.0 % gradient up to 900FT, another TKOF WX MINIMA is applicable.

OBST ALT 358FT located at 0.6NM 236° FM end of RWY26,

OBST ALT 912FT located at 2.1NM 115° FM end of RWY26.

ABASA TWO DEPARTURE

RWY 08 : Climb RWY HDG until 3NM from RWY end/YNE 2.7DME, turn right,...

RWY 26 : Climb RWY HDG until 700FT, turn right,...

...climb via YNE R101 to ABASA.

Note RWY08 : 6.7% climb gradient required up to 700FT.

OBST ALT 89FT located at 0.1NM 126° FM end of RWY08.

RWY26 : No turn before DER.

In case of climbing with 9.0 % gradient up to 900FT, another TKOF WX MINIMA is applicable.

OBST ALT 358FT located at 0.6NM 236° FM end of RWY26,

OBST ALT 912FT located at 2.1NM 115° FM end of RWY26.



CHANGE : PROC renamed. Radial FM YNE. Note RWY08 added. OBST chart added.

STANDARD DEPARTURE CHART -INSTRUMENT

ROYN / YONAGUNI

RNAV SID



CHANGE : New PROC

## STANDARD DEPARTURE CHART -INSTRUMENT

ROYN / YONAGUNI

RNAV SID

AYAKA ONE DEPARTURE

## RWY08

| 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              | —                   | —        | 080<br>(075.2) | -4.6               | —             | —              | +700          | —            | —              | Basic RNP1               |
| 002           | DF              | AYAKA               | —        | —              | -4.6               | —             | R              | —             | —            | —              | Basic RNP1               |

## RWY26

| 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              | —                   | —        | 260<br>(255.2) | -4.6               | —             | —              | +600          | —            | —              | Basic RNP1               |
| 002           | DF              | YN600               | —        | —              | -4.6               | —             | R              | —             | —            | —              | Basic RNP1               |
| 003           | TF              | AYAKA               | —        | 111<br>(106.1) | -4.6               | 36.3          | —              | —             | —            | —              | Basic RNP1               |

CHANGE : New PROC

STANDARD ARRIVAL CHART-INSTRUMENT

ROYN / YONAGUNI

RNAV STAR RWY26



CHANGE : New PROC

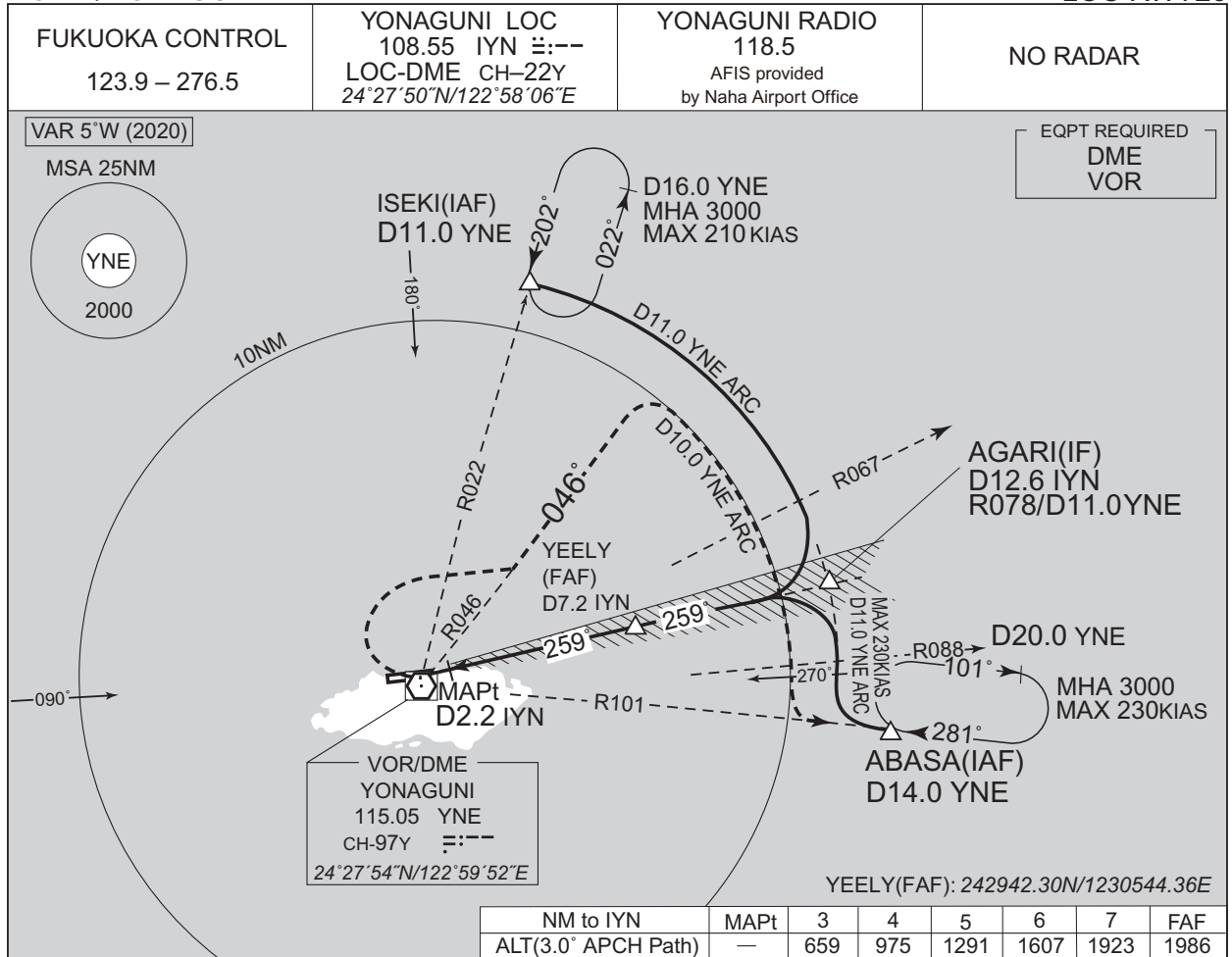
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INSTRUMENT APPROACH CHART

ROYN / YONAGUNI

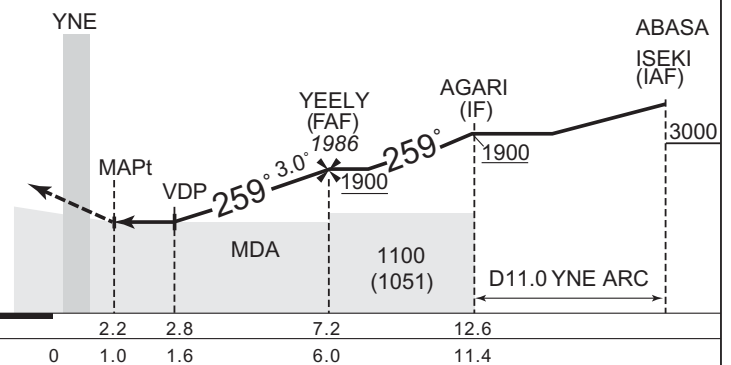
LOC RWY26



MISSED APPROACH

Turn right, climb to 3000FT via YNE R046, via YNE 10.0DME clockwise ARC to intercept and proceed via YNE R101 to ABASA and hold.  
Contact YONAGUNI RADIO.

Timing not authorized for defining the MAPt.



Missed APCH climb gradient MNM 5.0%

| MINIMA |           | THR elev. 42 | AD elev. 49 |      |
|--------|-----------|--------------|-------------|------|
| CAT    |           |              | CIRCLING    |      |
|        | MDA(H)    | CMV          | MDA(H)      | VIS  |
| A      | 570 (521) | 1000         | 1020 (971)  | 1600 |
| B      |           | 1200         |             |      |
| C      |           |              |             | 2400 |
| D      |           | 1600         |             | 3200 |

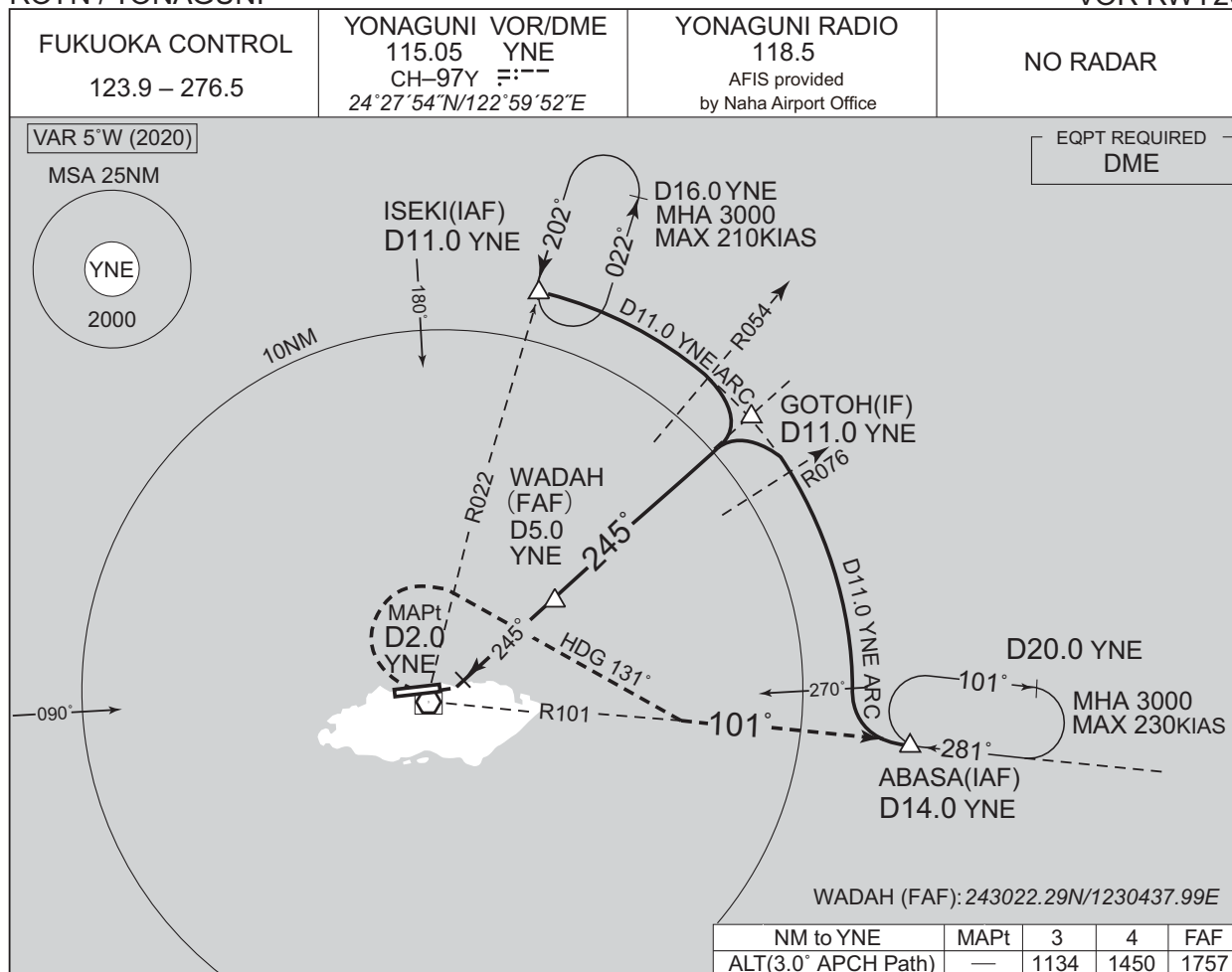
MINIMA with Missed APCH climb gradient of 2.5% are not established.  
Circling to NORTH side of RWY only.

CHANGE : ATC call sign.

INSTRUMENT APPROACH CHART

ROYN / YONAGUNI

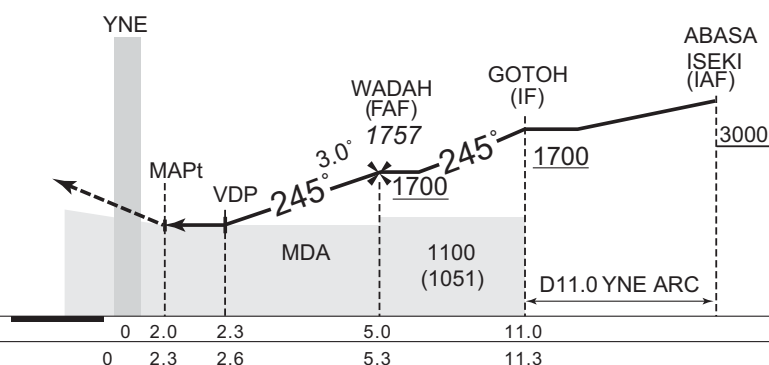
VOR RWY26



MISSED APPROACH

Turn right, climb to 3000FT via HDG 131° to intercept and proceed via YNE R101 to ABASA and hold.  
Contact YONAGUNI RADIO.

Timing not authorized for defining the MAPt.



Missed APCH climb gradient MNM 5.0%

| MINIMA |           | THR elev. 42 | AD elev. 49 |      |
|--------|-----------|--------------|-------------|------|
| CAT    |           |              | CIRCLING    |      |
|        | MDA(H)    | CMV          | MDA(H)      | VIS  |
| A      | 880 (831) | 1200         | 1020 (971)  | 1600 |
| B      |           | 1400         |             | 2400 |
| C      |           | 1800         |             | 3200 |
| D      |           |              |             |      |

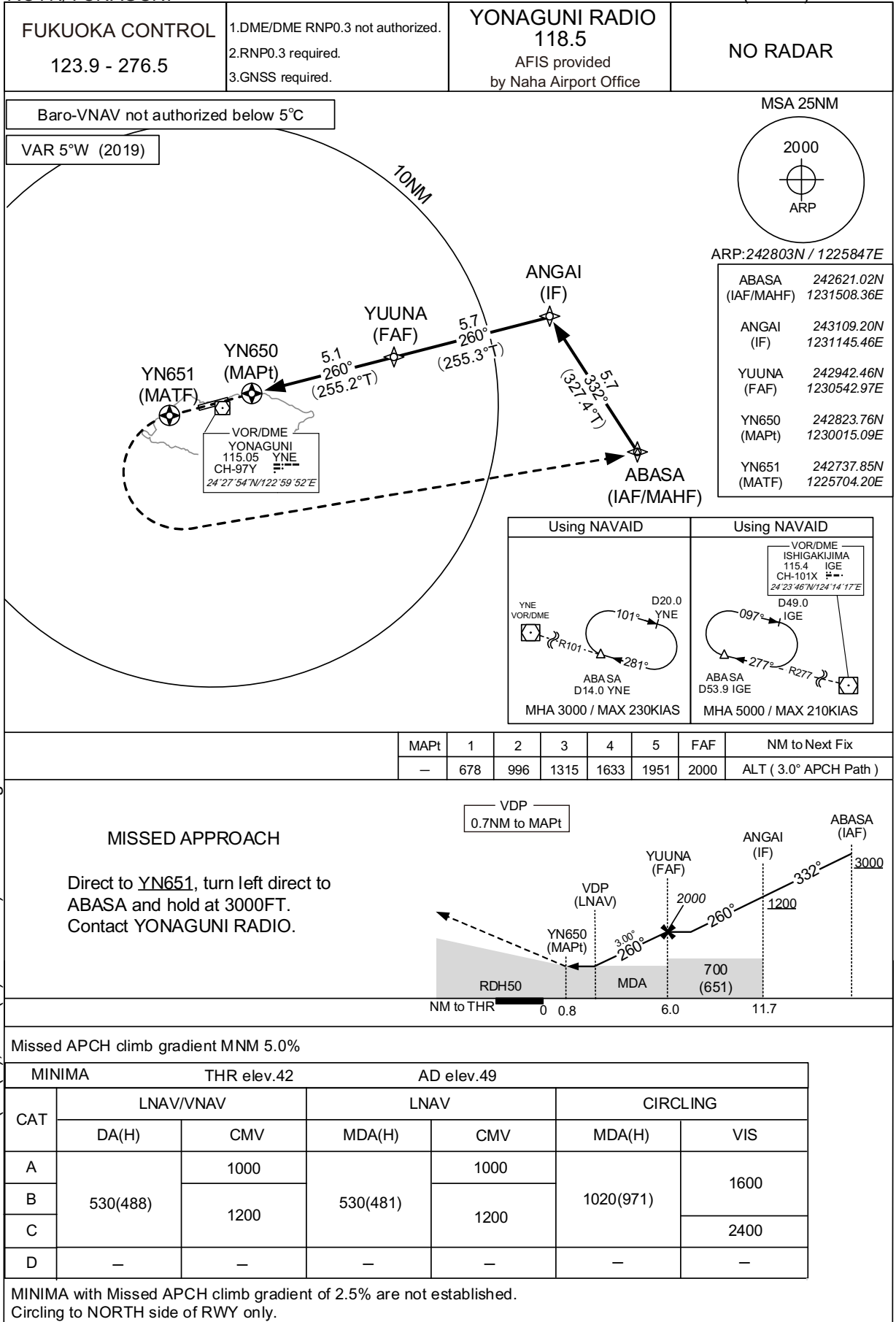
MINIMA with Missed APCH climb gradient of 2.5% are not established.  
Circling to NORTH side of RWY only.

CHANGE : ATC call sign.

INSTRUMENT APPROACH CHART

ROYN/YONAGUNI

RNAV(GNSS) RWY26

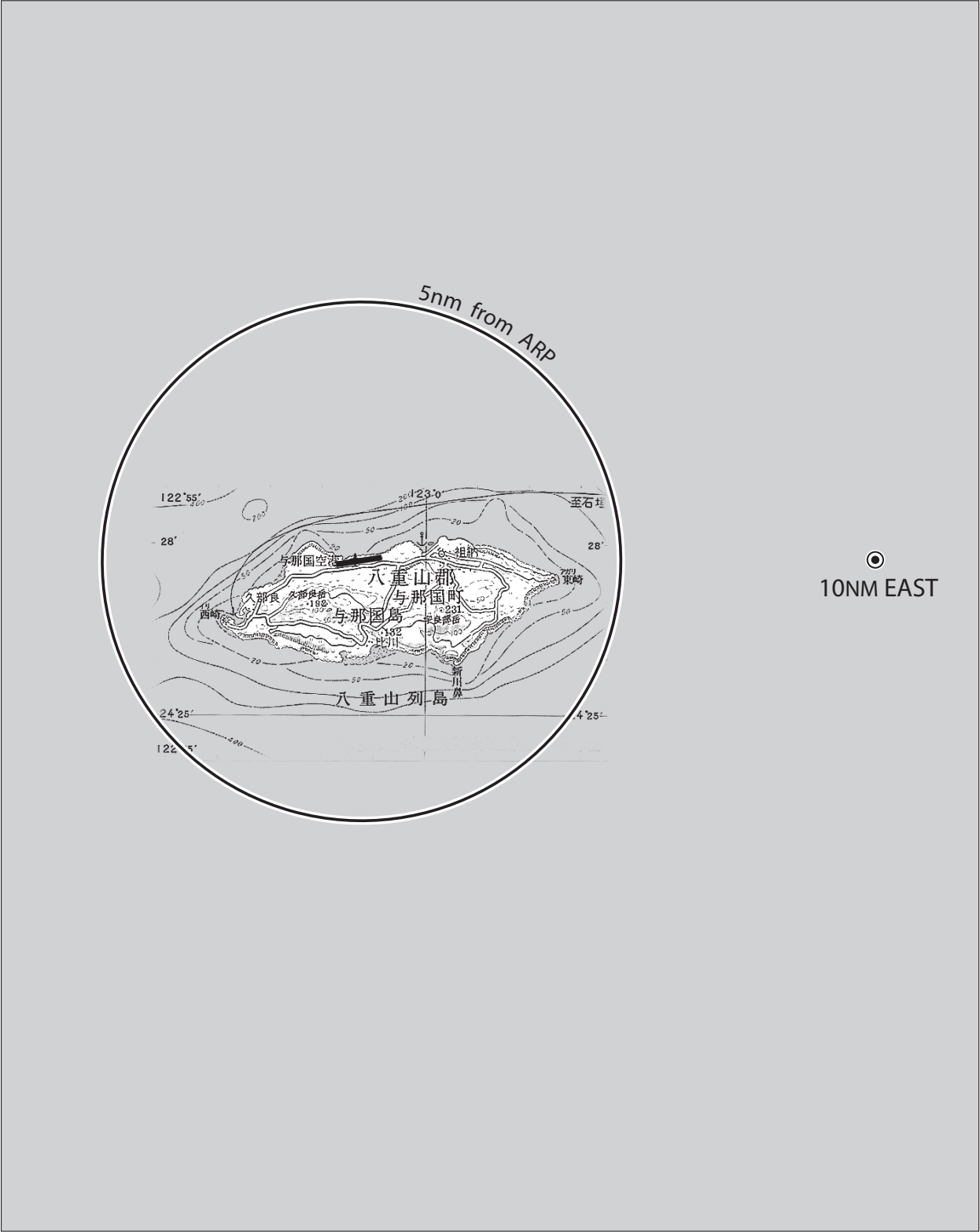


CHANGE : VDP, MINIMA(DA(H), MDA(H) for LNAV). ATC call sign. Sensor for RNAV.

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ROYN / YONAGUNI

Visual REP



| Call sign | BRG / DIST from ARP | Remarks            |
|-----------|---------------------|--------------------|
| 10NM EAST | 090°/10NM           | 海上<br>Over the sea |

ROYN / YONAGUNI

Minimum Vectoring Altitude CHART

