

## 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 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 PSN	76ft
5	MAG VAR/ Annual change	3°44'(2006) / Annual Change 0°03'W
6	AD Administration, address, telephone, telefax, telex, AFS, e-mail and/or Web-site addresses	OKINAWA PREF. Public AP. 4350, Aza-Yonaguni, Yonaguni-cho, Yaeyama-gun, Okinawa Pref Tel 0980-87-8375, 0980-87-3266 Fax 0980-87-2913, E-mail:aa063002@pref.okinawa.lg.jp Web: <a href="http://www.pref.okinawa.jp/">http://www.pref.okinawa.jp/</a>
7	Types of traffic permitted (IFR/ VFR)	IFR/VFR
8	Remarks	Nil

## ROYN AD 2.3 OPERATIONAL HOURS

1	AD Administration	2300 - 1030
2	Customs and immigration	On request Customs: 0980-87-2804 Immigration: 0980-82-2333
3	Health and sanitation	Quarantine(human): On request(0980-82-4940) 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 REMARKS: Airport Remote Mobile Communication Service provided by Naha FSC.
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 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 Strength: PCN 33/F/A/X/T
2	Taxiway width, surface and strength	Width: 23m Surface: Asphalt-concrete Strength: PCN 33/F/A/X/T
3	ACL and elevation	Not Available
4	VOR checkpoints	Not Available
5	INS checkpoints	Spot NR S-1 : 242756.96N/1225845.44E 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 (Marking): RWY designation, RWY CL, RWY THR, RWY middle point, TDZ, RWY side stripes, Aiming point (LGT): RCLL, REDL, RENL, RTHL TWY: (Marking): TWY CL, RWY HLDG PSN, TWY side stripe (LGT): TWY edge LGT, TWY CL LGT
3	Stop bars	Nil
4	Remarks	(Marking): Overrun area, Apron TWY CL (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 MET Office outside hours	H24 (NAHA)
3	Office responsible for TAF preparation Periods of validity	Nil
4	Trend forecast Interval of issuance	Nil
5	Briefing/ consultation provided	Briefing is available upon inquiry at NAHA
6	Flight documentation Language(s) used	C En
7	Charts and other information available for 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> , 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 available for providing information	Nil
9	ATS units provided with information	REMOTE
10	Additional information(limitation of service, etc.)	Nil

## ROYN AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY(M)	Strength(PCN) and surface of RWY	THR coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
08	075.27°	2000x45	PCN 33/F/A/X/T Asphalt-concrete	242754.37N 1225812.86E 76ft	THR ELEV: 71.9FT
26	255.27°	2000x45	PCN 33/F/A/X/T Asphalt-concrete	242810.89N 1225921.54E 76ft	THR ELEV: 41.6FT

Slope of RWY	Strip Dimensions(M)	RESA(Overrun) Dimensions(M)	Remarks
7	10	11	14
See below figure	2120x150 2120x150	91x156 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 (m)	TODA (m)	ASDA (m)	LDA (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 Designator	APCH LGT type LEN INTST	RTHL Color WBAR	PAPI (VASIS) Angle DIST FM THR MEHT	RTZL LEN	RCLL LEN Spacing Color INTST	REDL LEN Spacing Color INTST	RENL Color WBAR	STWL LEN Color
1	2	3	4	5	6	7	8	9
08	-	Green -	PAPI 3.0° /LEFT 356.1m 49ft	-	2,000m 30m Coded color LIH	2,000m 60m Coded color LIH	Red	Nil(*2)
26	SALS (*1) 420m LIH	Green -	PAPI 3.0°/LEFT 276.6m 49ft	-	2,000m 30m Coded color LIH	2,000m 60m Coded color LIH	Red	Nil(*2)
Remarks								
10								
SALS with RAI(LEN:360m)(*1) Overrun area edge LGT(LEN:60m Color:Red)(*2) 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 Anemometer location and LGT	LDI : Nil 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
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## 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	----- 3000	-	Yonaguni Remote En	Nil

## ROYN AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
A/G	Yonaguni Remote	118.5MHz	2300 - 1030	Remote air-ground facilities controlled by Naha FSC

## 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: 140° -170° beyond 20nm
DME	YNE	1058MHz (CH-97Y)	H24	242753.72N/1225951.86E	314.6ft	BLW 4000ft.
LOC 26	IYN	108.55MHz	2300-1030	242752.42N/1225804.79E		LOC 26: 235m (771ft) away FM RWY 08 THR, BRG (MAG) 259°
LOC-DME 26	IYN	1109MHz (CH-22Y)	2300-1030	242750.22N/1225805.42E		DME 26: 235m (771ft) inside FM RWY 08 THR, 70m (230ft) S of RCL. ELEV 25.8m (85ft). Unusable: beyond 25° south (90Hz) side of course due to terrain
MSAS		1575.42MHz	H24			Transmitting antennas 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.



## 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 CAT	REDL & RCLL	REDL or RCLL or RCL Marking	NIL (DAYTIME ONLY)
			CEIL-VIS	CEIL-VIS	CEIL-VIS
Multi-Engine ACFT-with TKOF ALTN AP Filed	08	A,B,C,D	0-400m	0-400m	0-500m
	26		900-2400m* 300-2400m** 0-400m***	900-2400m* 300-2400m** 0-400m***	900-2400m* 300-2400m** 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

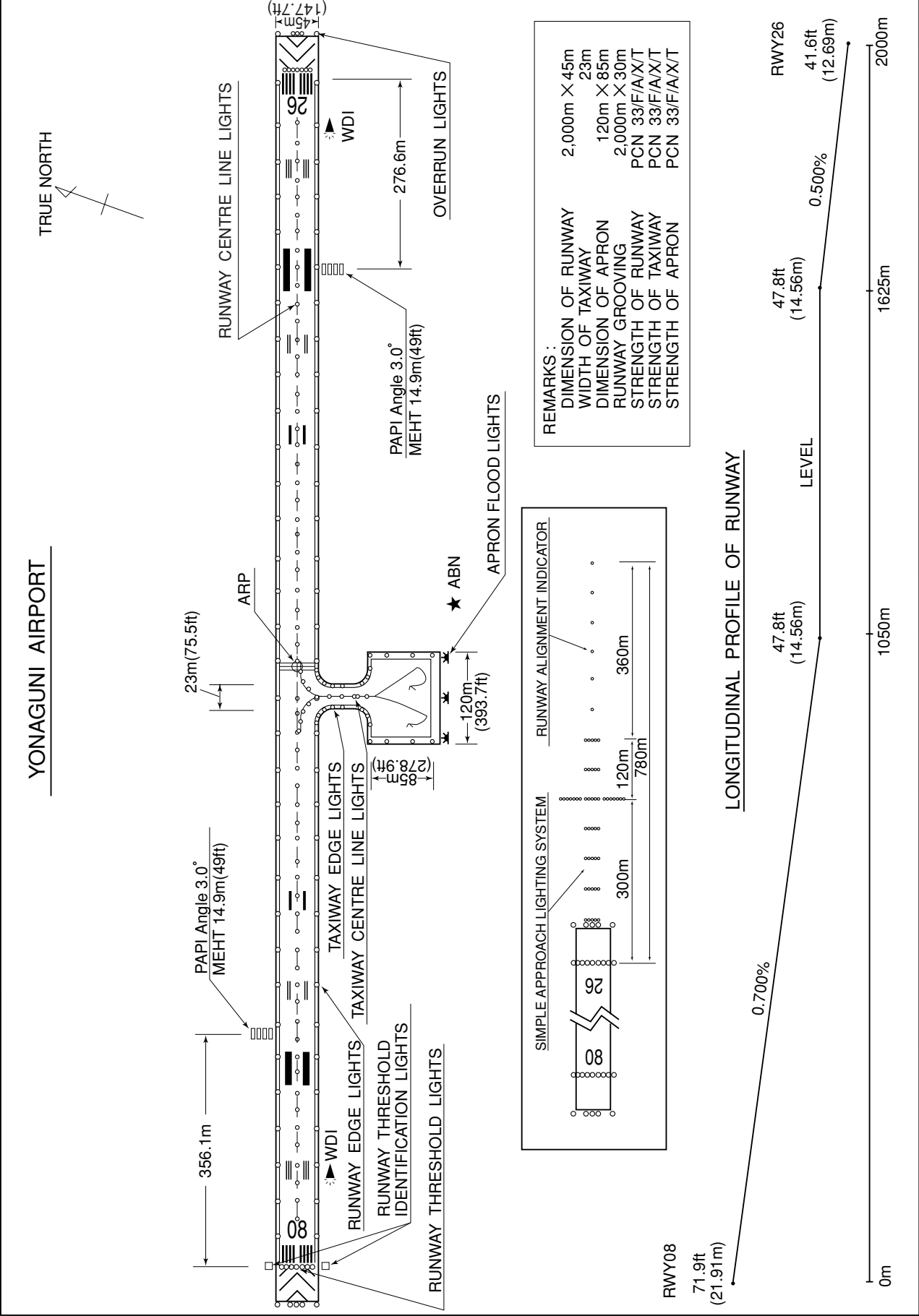
Ask AD administration

## 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)

ROYN / YONAGUNI

AD CHART



## 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.

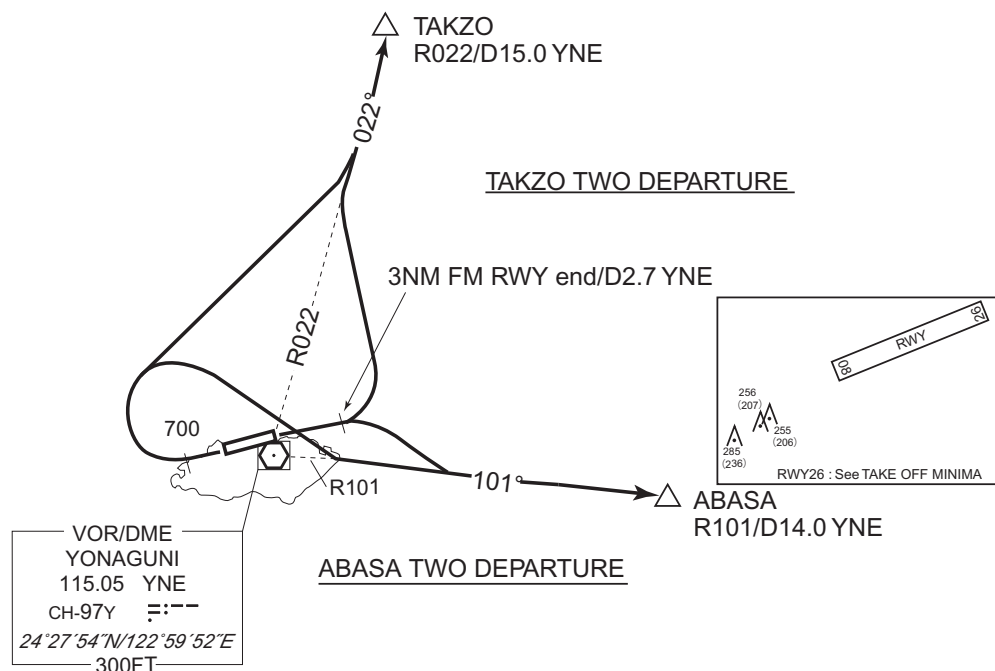
OBST ALT 89FT located at 0.1NM 126° FM end of RWY08.

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

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

CHANGE : New PROC

STANDARD ARRIVAL CHART-INSTRUMENT

ROYN / YONAGUNI

RNAV STAR RWY26



CHANGE : New PROC

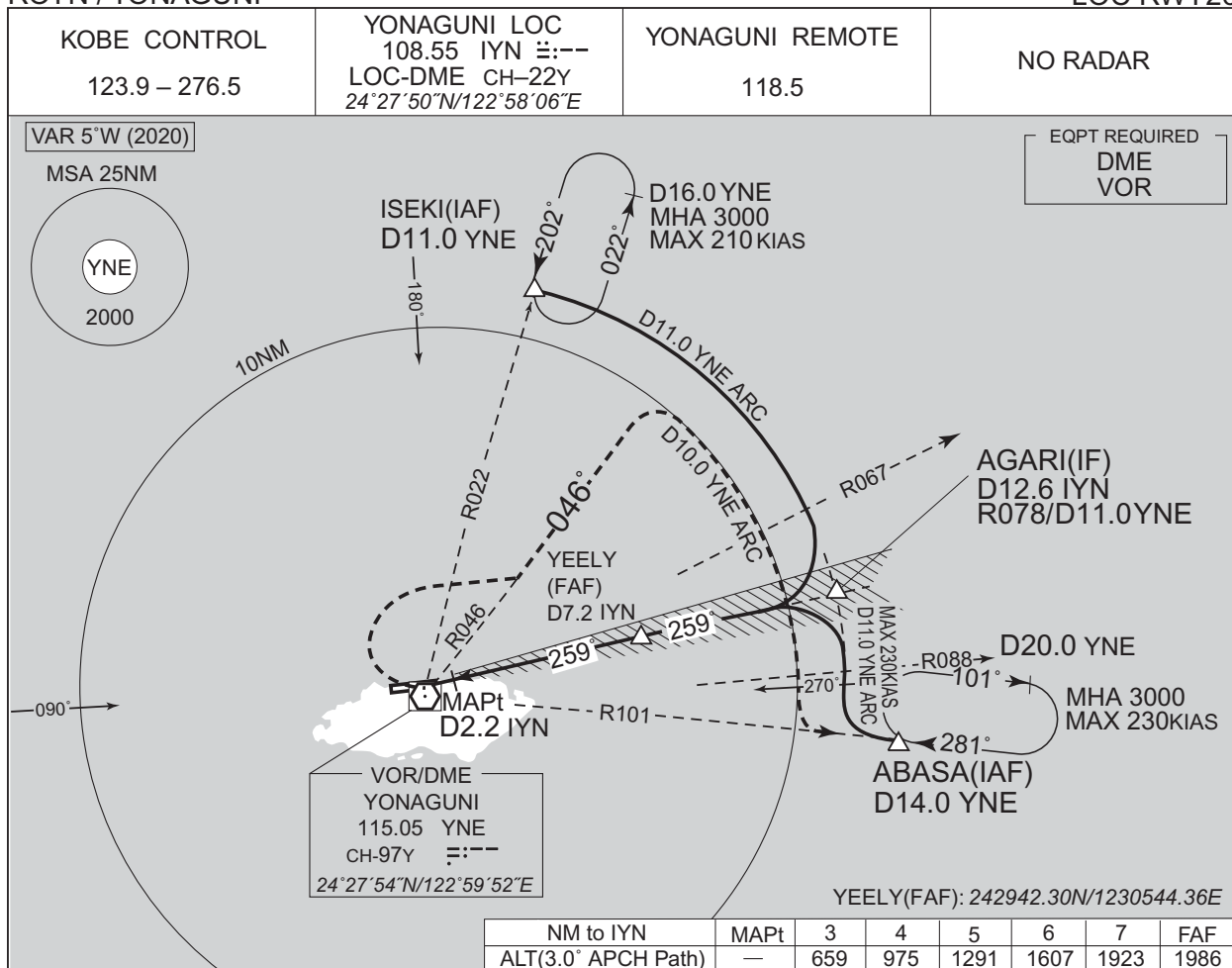
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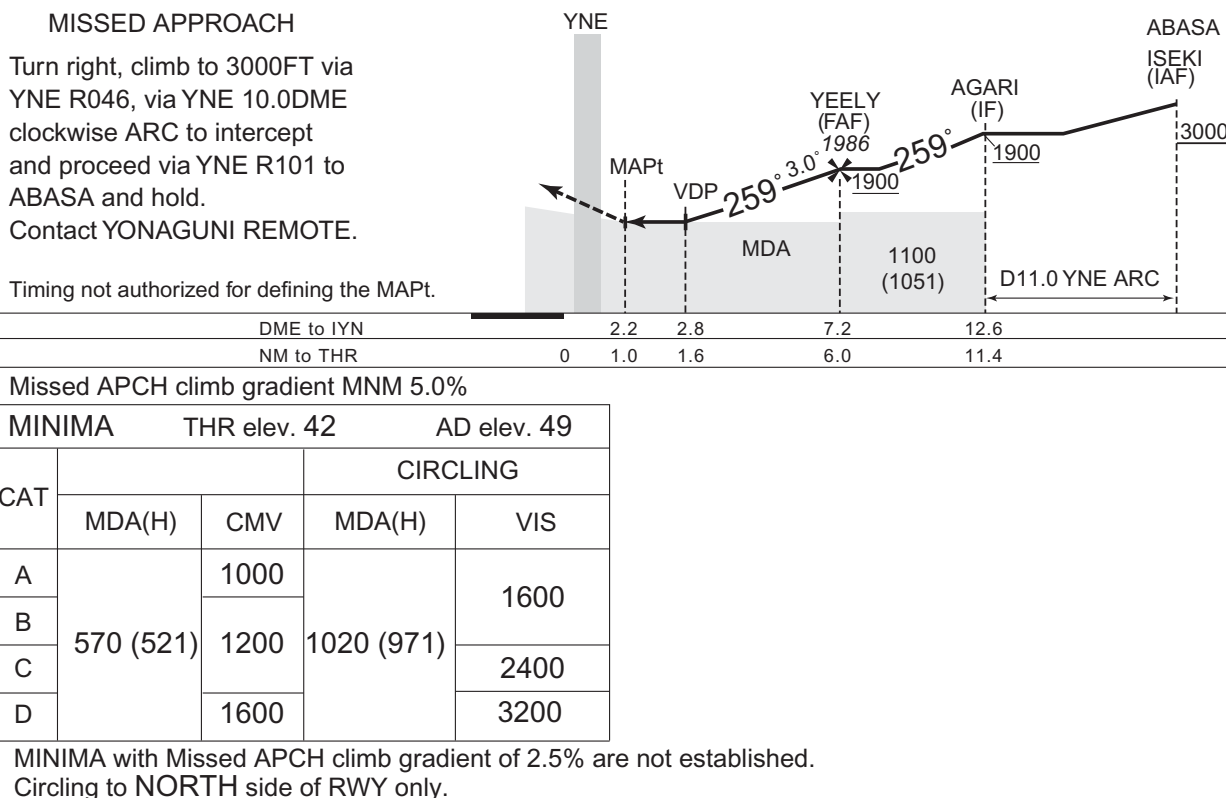
INSTRUMENT APPROACH CHART

ROYN / YONAGUNI

LOC RWY26



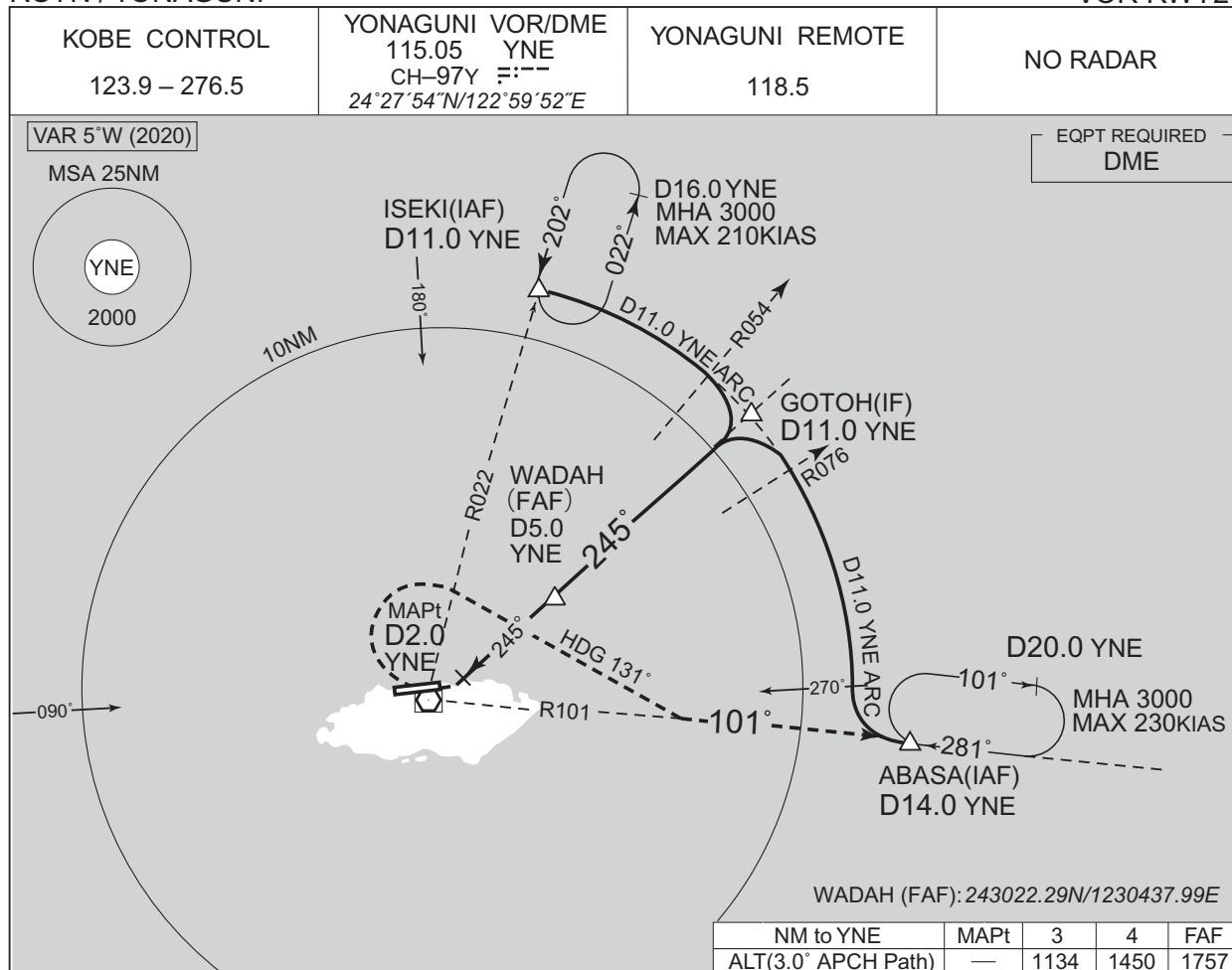
CHANGE : VAR. Radial FM YNE. AGARI, YEELY established. OCA added.



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 REMOTE.

Timing not authorized for defining the MAPt.



Missed APCH climb gradient MNM 5.0%

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

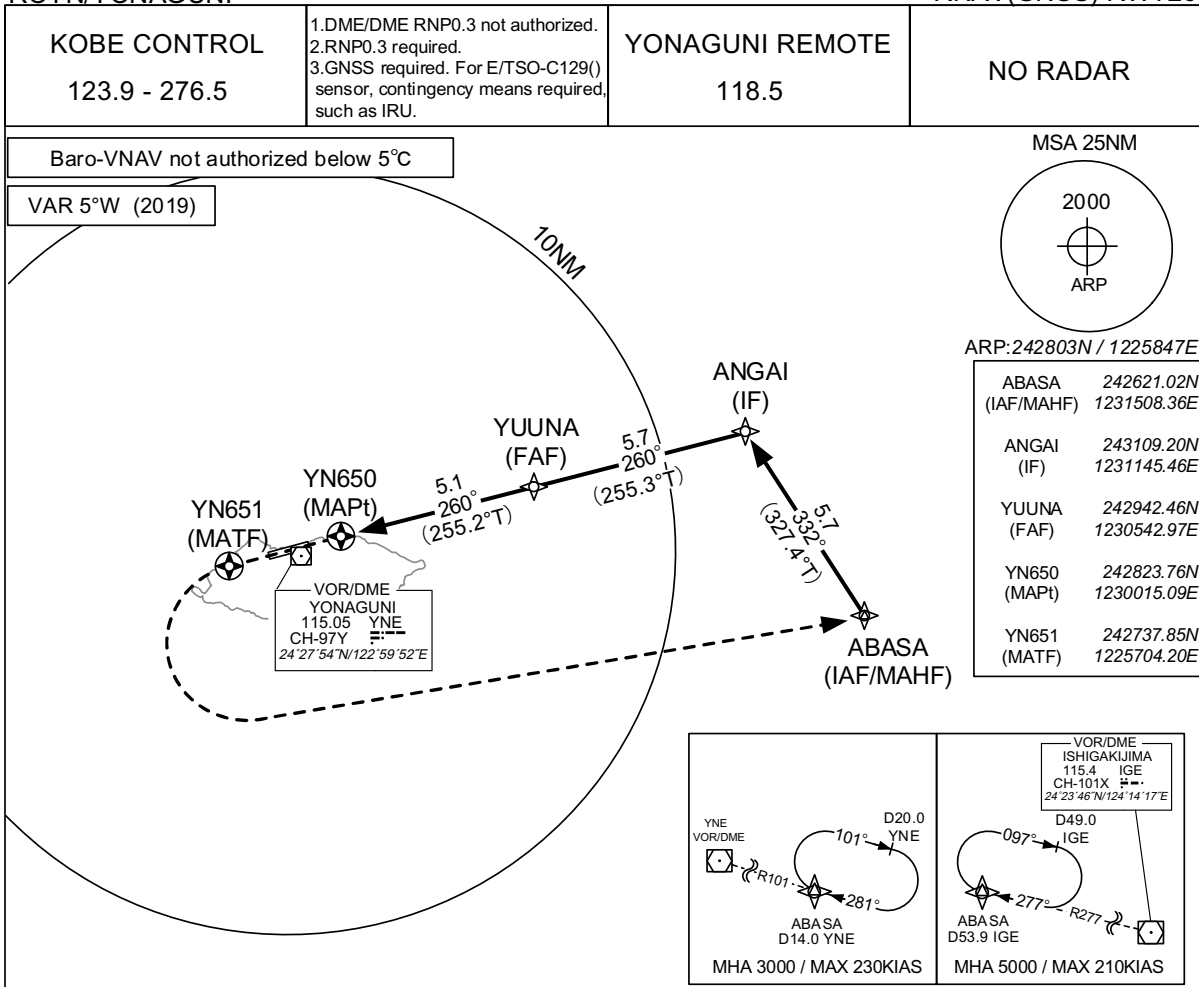
MINIMA with Missed APCH climb gradient of 2.5% are not established.  
Circling to NORTH side of RWY only.

CHANGE : VAR. Radial FM YNE. GOTOH, WADAH established. OCA added.

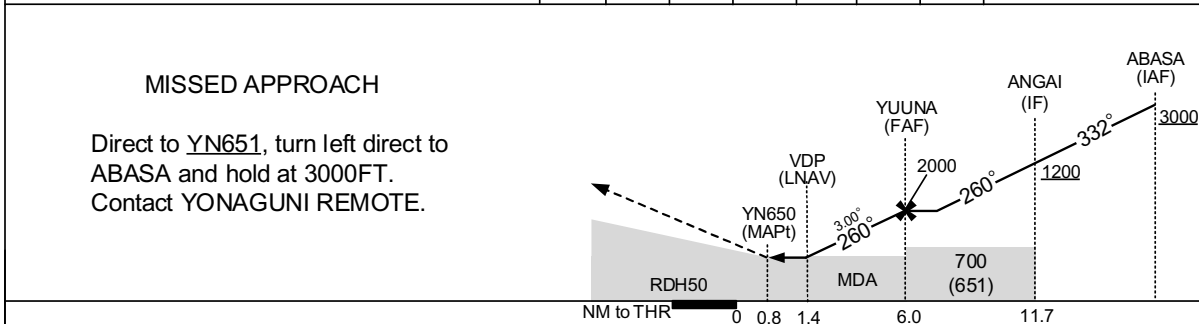
INSTRUMENT APPROACH CHART

ROYN/YONAGUNI

RNAV(GNSS) RWY26



MAPt	1	2	3	4	5	FAF	NM to Next Fix
—	678	996	1315	1633	1951	2000	ALT ( 3.0° APCH Path )



Missed APCH climb gradient MNM 5.0%

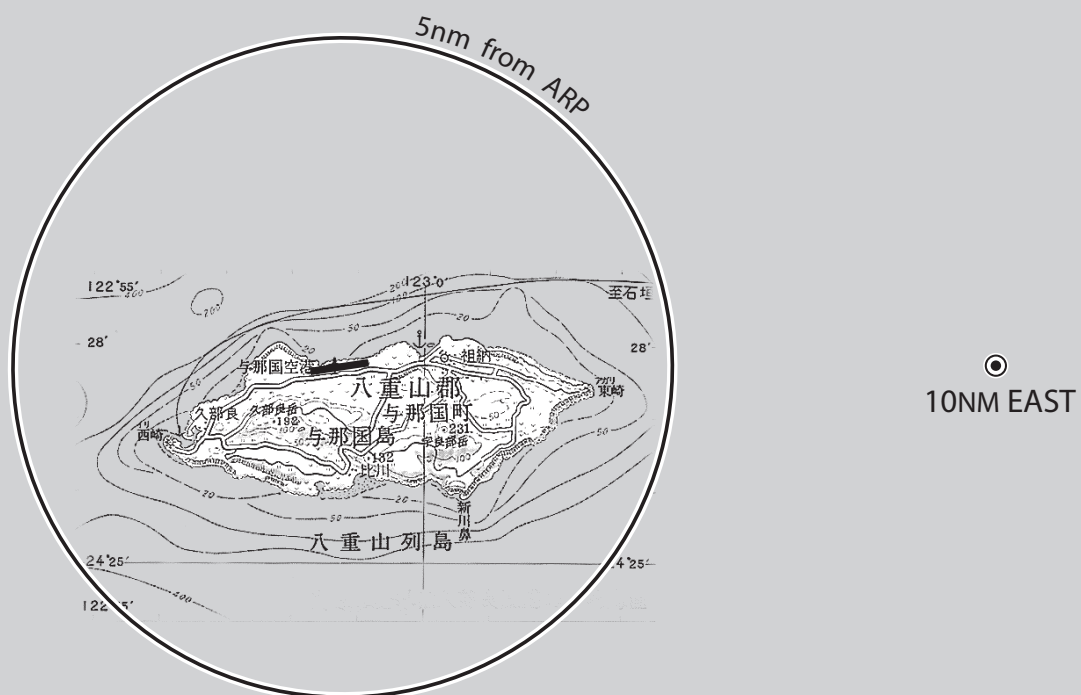
MINIMA		THR elev.42		AD elev.49		
CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	CMV	MDA(H)	CMV	MDA(H)	VIS
A	520(478)	1000	520(471)	1000	1020(971)	1600
B		1200		1200		
C						2400
D	—	—	—	—	—	—

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

CHANGE : New PROC

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Visual REP



Call sign	BRG / DIST from ARP	Remarks
10NM EAST	090°/10NM	海上 Over the sea

ROYN / YONAGUNI

Minimum Vectoring Altitude CHART

