

## AD 2 AERODROMES

## RJTH AD 2.1 AERODROME LOCATION INDICATOR AND NAME

## RJTH - HACHIOJIMA

## RJTH AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	330654N/1394709E 1.0km from RWY08 THR
2	Direction and distance from (city)	1.0km NW from Hachijo town office
3	Elevation/ Reference temperature	301ft / 30°C(2004-2008)
4	Geoid undulation at AD ELEV PSN	144FT
5	MAG VAR/ Annual change	6°W(2007) / -
6	AD Administration, address, telephone, telefax, telex, AFS, e-mail and/or Web-site addresses	Tokyo Municipal Govt. 2839-2, Ookago, Hachijo-machi, Hachijo-jima(Is.), Tokyo. TEL:04996-2-0163 FAX:04996-2-3173
7	Types of traffic permitted(IFR/VFR)	IFR/VFR
8	Remarks	Nil

## RJTH AD 2.3 OPERATIONAL HOURS

1	AD Administration	2300 - 0900
2	Customs and immigration	On request Customs: 03-3599-6214 Immigration: 03-5796-7250
3	Health and sanitation	Quarantine(human): On request(03-3599-1515) Quarantine(animal, plant): Nil
4	AIS Briefing Office	Nil
5	ATS Reporting Office(ARO)	Nil
6	MET Briefing Office	H24 (TOKYO)
7	ATS	2300 - 0900 Remarks: Airport Remote Mobile Communication Service provided by Tokyo FSC
8	Fuelling	2300 - 0900(On Request)
9	Handling	2300 - 0900
10	Security	2300 - 0900
11	De-icing	Nil
12	Remarks	Nil

**RJTH AD 2.4 HANDLING SERVICES AND FACILITIES**

1	Cargo-handling facilities	Nil
2	Fuel/ oil types	Fuel : JET A-1
3	Fuelling facilities/ capacity	Fuel truck
4	De-icing facilities	Nil
5	Hangar space for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	Nil

**RJTH AD 2.5 PASSENGER FACILITIES**

1	Hotels	Nil
2	Restaurants	Nil
3	Transportation	Nil
4	Medical facilities	Nil
5	Bank and Post Office	Nil
6	Tourist Office	Nil
7	Remarks	Nil

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

1	AD category for fire fighting	CAT 7
2	Rescue equipment	Chemical fire fighting truck x 2
3	Capability for removal of disabled aircraft	Nil
4	Remarks	Nil

**RJTH AD 2.7 SEASONAL AVAILABILITY-CLEARING**

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

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

1	Apron surface and strength	Surface:Asphalt Concrete, Strength:PCN 41/R/B/X/T
2	Taxiway width, surface and strength	Width : 23m Surface : Asphalt Concrete, Strength:PCN 42/F/A/X/T
3	ACL and elevation	Not available
4	VOR checkpoints	Not available
5	INS checkpoints	Spot NR 1 330656.14N ,1394657.15E 2 330657.40N ,1394658.03E 3 330657.86N ,1394659.68E
6	Remarks	Nil

## RJTH 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:08/26 (Marking):RWY designation, RWY CL, RWY THR, RWY middle point, Aiming point, TDZ, RWY side stripe (LGT): RCLL, REDL, RTHL, RENL 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 (LGT):Apron flood LGT

## RJTH AD 2.10 AERODROME OBSTACLES

RWY/Area affected	Obstacle type	Coordinates	Elevation	Markings/ LGT	Remarks
Nil					

## RJTH AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	TOKYO
2	Hours of service MET Office outside hours	H24 (TOKYO)
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 TOKYO
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</sub> /T <sub>r</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

## RJTH 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	069.56°	2000x45	PCN 42/F/A/X/T Asphalt Concrete	330643.03N 1394633.07E	THR ELEV : 282ft
26	249.56°	2000x45	PCN 42/F/A/X/T Asphalt Concrete	330705.72N 1394745.36E	THR ELEV : 284ft
Slope of RWY		Strip Dimensions(M)	RESA(Overrun) Dimensions(M)	Remarks	
7		10	11	14	
See Below Figure		2120x150	40x90	RWY Grooving: 2000x30m	
		2120x150	40x90		

Slope of RWY

The profile view shows the elevation of the runway from 0 to 2000 meters. The elevation starts at 282ft at 0m and ends at 284ft at 2000m. The slope percentages are: 0.66%, 0.76%, 0.63%, 0.34%, 0.26%, 0.59%, 0.79%, and 0.71%.

Distance (m)	Elevation (ft)	Slope (%)
0	282	0.66%
70	284	0.76%
280	289	0.63%
680	297	0.34%
830	299	0.26%
1180	302	0.59%
1630	293	0.79%
1870	287	0.71%
2000	284	

## RJTH 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

## RJTH 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	Nil (*1)	Green Nil	PAPI 3.0°/LEFT 324.3m 61ft		2000m 30m Coded color (White/Red) LIH	2000m 60m Coded color (White/Yellow) LIH	Red	Nil(*3)
26	SALS 420m (*2) LIH	Green Nil	PAPI 3.0°/LEFT 322.6m 61ft		2000m 30m Coded color (White/Red) LIH	2000m 60m Coded color (White/Yellow) LIH	Red	Nil(*3)
Remarks								
10								
APCH Guidance LGT for RWY 08(LEN:2013m)(*1) SALS with APCH Guidance LGT for RWY 26(LEN:1579m)(*2) Overrun area edge LGT(LEN:30m Color:Red)(*3) RWY THR ID LGT for RWY08 THR(Color:White)								

## RJTH AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 330703N/1394703E, White/Green EV4.3sec, HO
2	LDI location and LGT Anemometer location and LGT	LDI:Nil Anemometer: RWY08:250m FM RWY08 THR, LGTD Mid:300m FM ARP, LGTD RWY26:150m FM RWY26 THR, LGTD
3	TWY edge and center line lighting	TWY edge LGT: Blue TWY CL LGT: ALTN Green/Yellow FM RWY leaving Report point, other Green
4	Secondary power supply / switch-over time	Nil
5	Remarks	WDI LGT

**RJTH AD 2.16 HELICOPTER LANDING AREA**

Nil

**RJTH 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
Hachijojima Information zone	Area within a radius of 5nm(9km) of HACHIJOJIMA ARP	3000 or below	E	Hachijo REMOTE En	

**RJTH AD 2.18 ATS COMMUNICATION FACILITIES**

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
A/G	Hachijo Remote	118.7MHz	2300 - 0900	Remote air-ground facility controlled by Tokyo FSC

**RJTH 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 (6°W/2009)	HCE	116.65MHz	H24	330651.66N/ 1394718.54E		VOR/DME Unusable: 090°-200° beyond 5NM below 5000ft. 300°-360° beyond 5NM below 5000ft.
DME	HCE	1074MHz (CH-113Y)	H24	330651.66N/ 1394718.54E	339ft	
LOC 26	IHC	110.1MHz	2300 - 0900	330647.86N/ 1394700.58E		LOC: 720m (2362ft) inside FM RWY 08 THR, 110m (361ft) S of RCL. OFFSET 3.0°, BRG (MAG) 252° Unusable: beyond 30° North side and 20° South side of LOC course.
LOC-DME 26	IHC	999MHz	2300 - 0900	330647.19N/ 1394700.47E		LOC-DME: 710m (2329ft) inside FM RWY 08 THR, 128m (420ft) S of RCL.
MSAS		1575.42MHz	H24			Transmitting antennas are satellite based.

## HACHIJOJIMA AP



REMARKS : 1. LOC offset Angle 3.0°  
2. LOC beam BRG(MAG) 252°





---

## RJTH AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Airport regulations

Nil
-----

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
-----

## RJTH AD 2.21 NOISE ABATEMENT PROCEDURES

Nil
-----

**RJTH AD 2.22 FLIGHT PROCEDURES****1.TAKE OFF MINIMA**

	RWY	REDL & RCLL AVBL		REDL or RCLL AVBL		REDL & RCLL OUT	
		CEIL - RVR	CEIL - VIS	CEIL - RVR	CEIL - VIS	CEIL - RVR	CEIL - VIS
TKOF ALTN AP FILED	08	-	300'-800m	-	300'-1000m	-	300'-1200m
	26						
OTHER	08	AVBL LDG MINIMA					
	26						

NOTE: SIDs are designed in accordance with provisional standards for FLIGHT PROCEDURE DESIGN.

**2.TAKE OFF MINIMA for RNAV DEPARTURE**

	RWY	ACFT CAT	REDL & RCLL		REDL or RCLL or RCL Marking		NIL (DAYTIME ONLY)	
			RVR	VIS	RVR	VIS	RVR	VIS
Multi-Engine ACFT with TKOF ALTN AP FILED	08	A,B,C,D	-	400m	-	400m	-	500m
	26							
OTHER	08	A,B,C,D	AVBL LDG MINIMA					
	26							

**RJTH AD 2.23 ADDITIONAL INFORMATION**

Nil
-----

**RJTH AD 2.24 CHARTS RELATED TO AN AERODROME**

Aerodrome/Heliport Chart  
 Standard Departure Chart-Instrument (TEMAR, HACHIJO REVERSAL)\*  
 Standard Departure Chart-Instrument (MIYAKE)\*  
 Standard Departure Chart-Instrument (TOPIT-RNAV)  
 Standard Arrival Chart-Instrument\*  
 Instrument Approach Chart (LOC Z RWY26)\*  
 Instrument Approach Chart (LOC Y RWY26) \*  
 Instrument Approach Chart (VOR A For RWY26)\*  
 Instrument Approach Chart (VOR B For RWY26)\*  
 Instrument Approach Chart (VOR C For RWY26)\*  
 Instrument Approach Chart (VOR D For RWY08)\*  
 Instrument Approach Chart (RNAV(RNP) RWY08)  
 Instrument Approach Chart (RNAV(RNP) RWY26)  
 Other Chart (Visual REP)  
 Other Chart (LDG Chart)  
 Other Chart (MVA Chart)

\*: Designed in accordance with provisional standards for FLIGHT PROCEDURE DESIGN.

## RJTH / HACHIJOJIMA

## AD CHART



**INTENTIONALLY LEFT BLANK**

STANDARD DEPARTURE CHART-INSTRUMENT

RJTH / HACHIOJIMA

SID

TEMAR FIVE DEPARTURE

RWY 08 : Climb RWY HDG to 1000FT or above, turn left,....  
RWY 26 : Turn left, climb via HCE R240 to 4000FT or above,  
turn right proceed to HCE VOR/DME, ....  
....climb via HCE R056 to TEMAR.

HACHIO REVERSAL FOUR DEPARTURE

RWY 08 : Climb RWY HDG to 1000FT or above, turn left, climb via HCE R056  
to 4000FT or above, turn left,....  
RWY 26 : Turn left, climb via HCE R240 to 4000FT or above,  
turn right,....  
....proceed to HCE VOR/DME.  
Cross HCE VOR/DME at or above 5000FT.

CHANGE : Correction of misdescription (TEMAR)



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTH / HACHIJOJIMA

SID

MIYAKE THREE DEPARTURE

RWY 08 : Climb RWY HDG to 1000FT or above, turn left, climb via HCE R055 to 15.0DME, turn left to intercept and proceed via MOE R158 to MOE VOR/DME.

Cross HCE R055/15.0DME at or above 4000FT.

RWY 26 : Turn left, climb via HCE R240 to 18.0DME, turn right to intercept and proceed via MOE R194 to MOE VOR/DME.

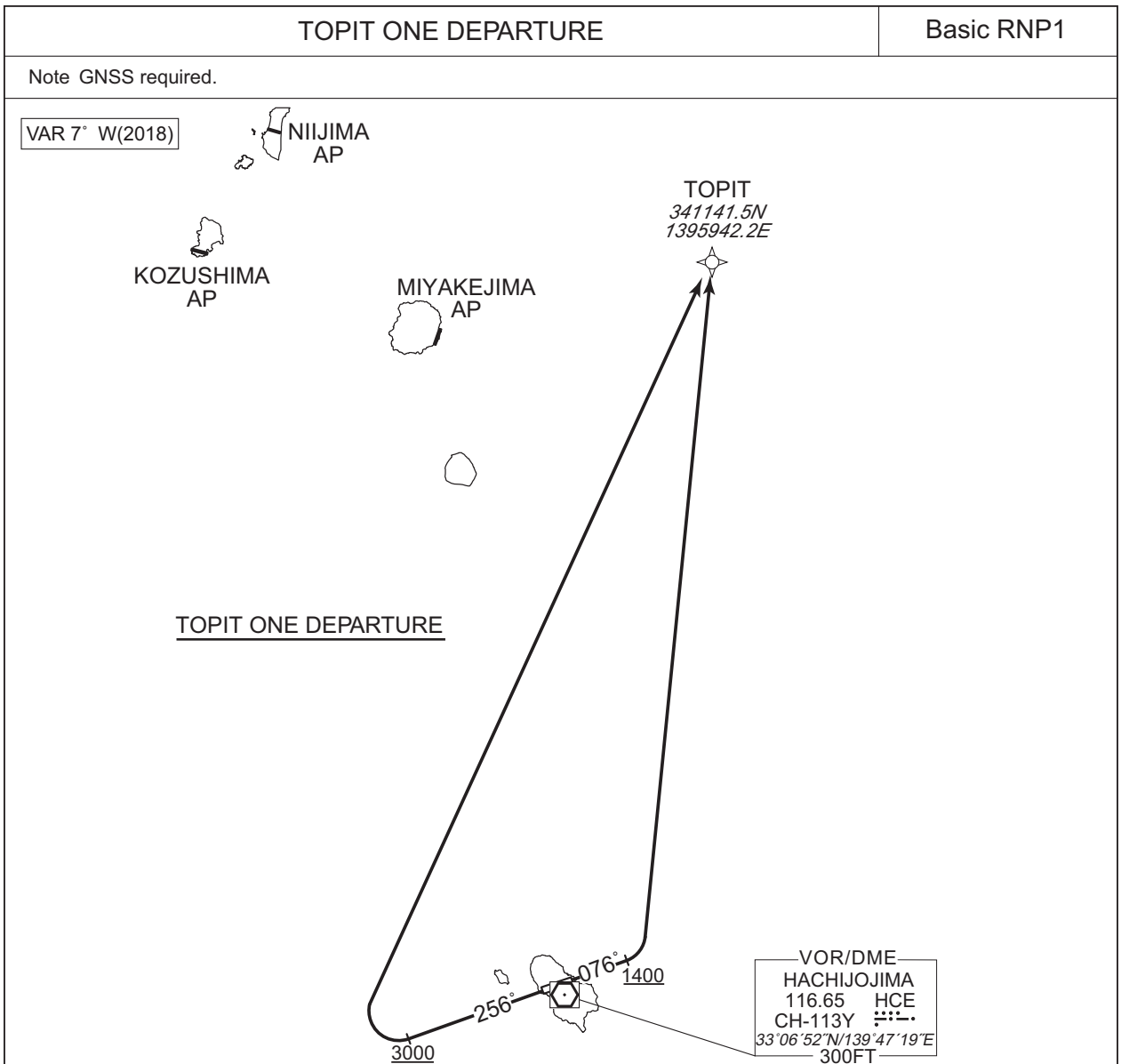
Cross HCE R240/18.0DME at or above 6000FT.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTH / HACHIOJIMA

RNAV SID

TOPIT ONE DEPARTURE

RWY08 : Climb on HDG 076° at or above 1400FT, turn left direct to TOPIT.

RWY26 : Climb on HDG 256° at or above 3000FT, turn right direct to TOPIT.

## 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	—	—	076 (069.5)	-6.7	—	—	+1400	—	—	Basic RNP1
002	DF	TOPIT	—	—	-6.7	—	L	—	—	—	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	—	—	256 (249.5)	-6.7	—	—	+3000	—	—	Basic RNP1
002	DF	TOPIT	—	—	-6.7	—	R	—	—	—	Basic RNP1

**INTENTIONALLY LEFT BLANK**



STANDARD ARRIVAL CHART-INSTRUMENT

RJTH / HACHIOJIMA

STAR

HACHIOJO ARRIVAL

From over SANGO, proceed via HCE R009 to intercept and proceed via HCE 14.0DME clockwise ARC, via IHC-LOC to SHELL or HCE R075 to RURII.

Cross SANGO at or above 5000FT, cross SHELL or RURII at or above 2000FT.

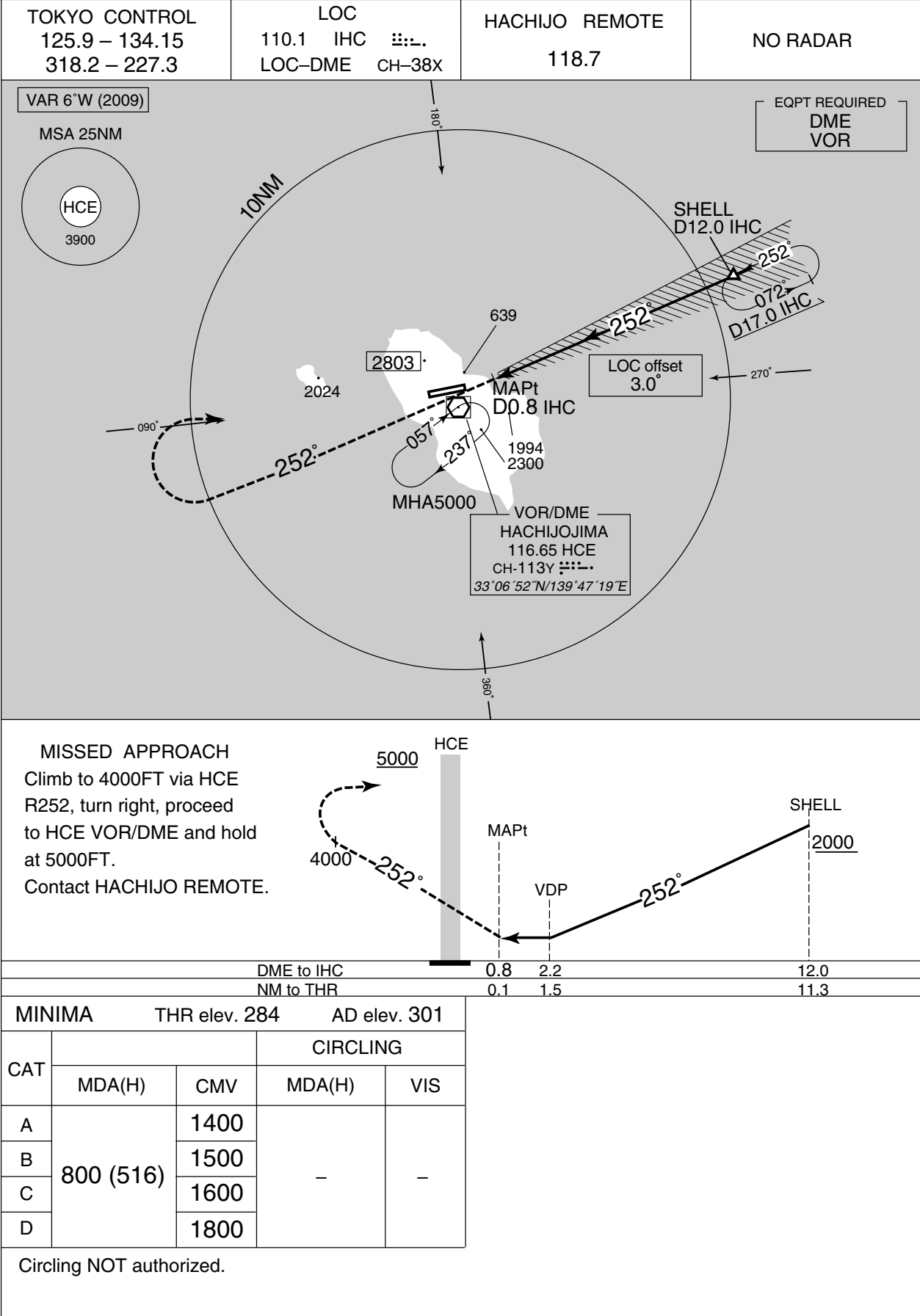
HACHIOJO ARRIVAL



**INTENTIONALLY LEFT BLANK**

INSTRUMENT APPROACH CHART

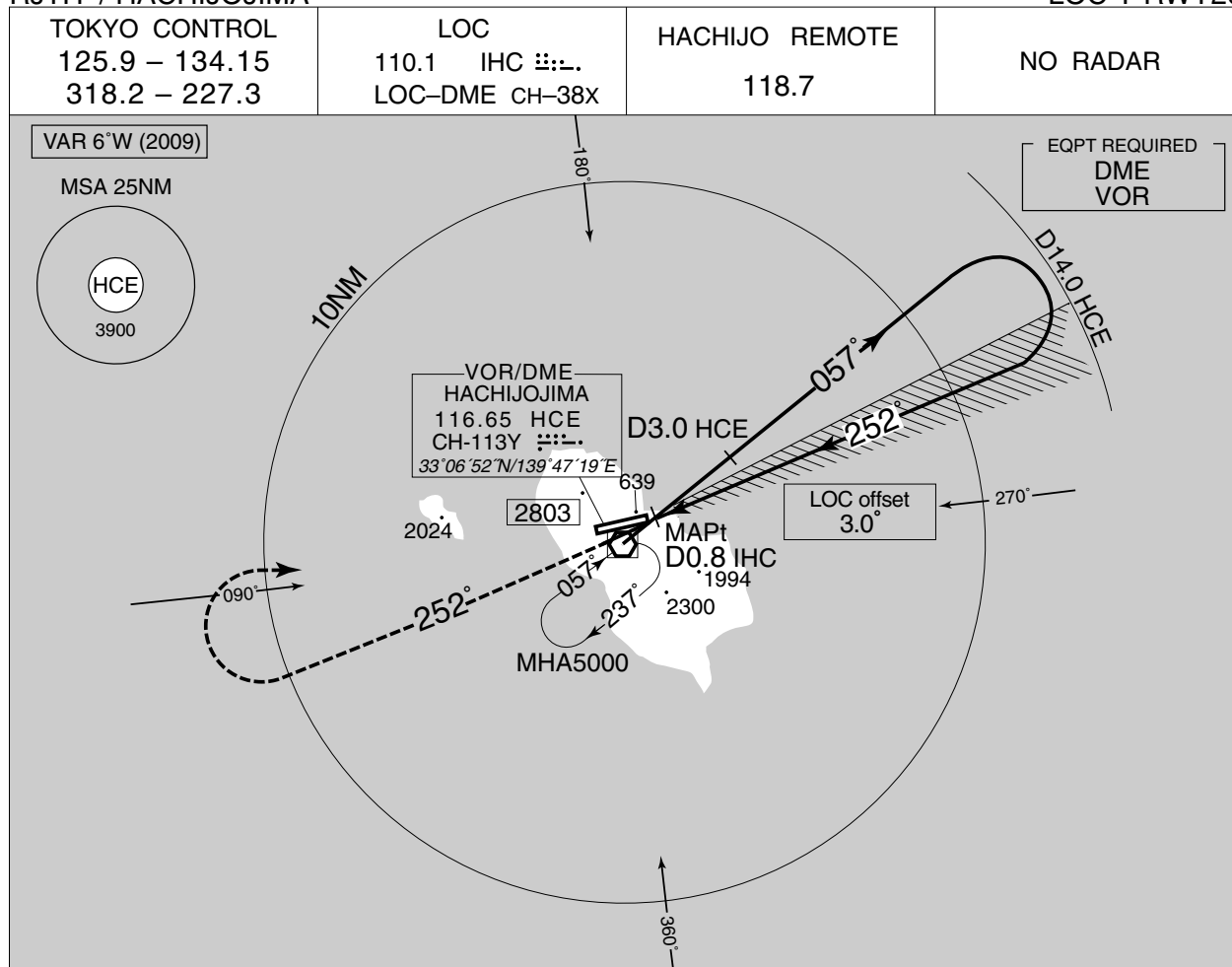
RJTH / HACHIOJIMALOC Z RWY26



## INSTRUMENT APPROACH CHART

RJTH / HACHIOJIMA

LOC Y RWY26



## MISSED APPROACH

Climb to 4000FT via HCE  
R252, turn right, proceed  
to HCE VOR/DME and hold  
at 5000FT.  
Contact HACHIOJO REMOTE.

Remain within D14.0 HCE



MINIMA THR elev. 284 AD elev. 301

CAT	MDA(H)		CIRCLING	
	MDA(H)	CMV	MDA(H)	VIS
A	800 (516)	1400	-	-
B		1500		
C		1600		
D		1800		

Circling NOT authorized.

## RJTH / HACHIJOJIMA

VOR A (For RWY 26)

MINIMA		THR elev. 284		AD elev. 301	
CAT	MDA(H)	Facilities			
		Full	Intermediate	Basic	Nil
		VIS	VIS		
A	800 (516)	–	4800		
B					
C					
D					

*MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.*

## INSTRUMENT APPROACH CHART

RJTH / HACHIJOJIMA

VOR B (For RWY 26)

TOKYO CONTROL 125.9 – 134.15 318.2 – 227.3	HACHIJOJIMA VOR/DME 116.65 HCE CH-113Y 33°06'52"N / 139°47'19"E	HACHIJO REMOTE 118.7	NO RADAR
--	--	-------------------------	----------



## MISSED APPROACH

Turn right, climb to 4000FT  
via HCE R060, turn right,  
proceed to HCE VOR/DME  
and hold at 5000FT.  
Contact HACHIJO REMOTE.



DME to HCE	6.0
NM to THR	5.6

MINIMA		THR elev. 284		AD elev. 301	
CAT	MDA(H)	Facilities			
		Full	Intermediate	Basic	Nil
		VIS	VIS		
A	800 (516)	–	4800		
B					
C					
D					

MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

INSTRUMENT APPROACH CHART

RJTH / HACHIOJIMA

VOR C (For RWY 26)



## INSTRUMENT APPROACH CHART

RJTH / HACHIOJIMA

VOR D (For RWY 08)





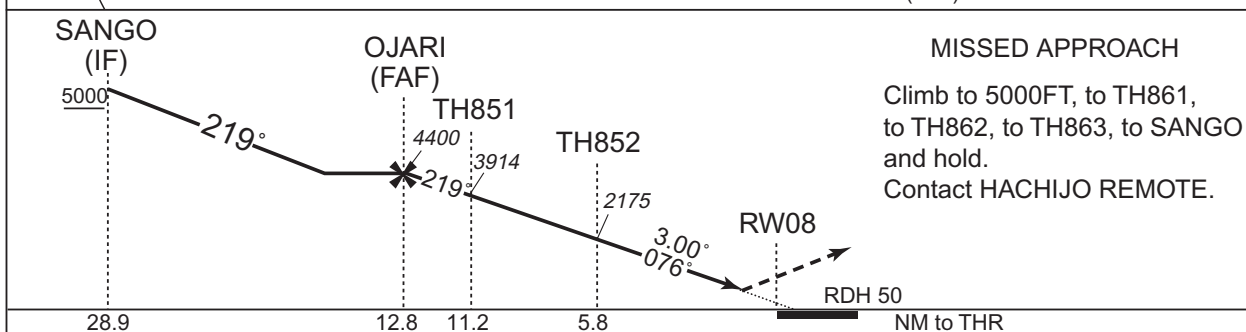
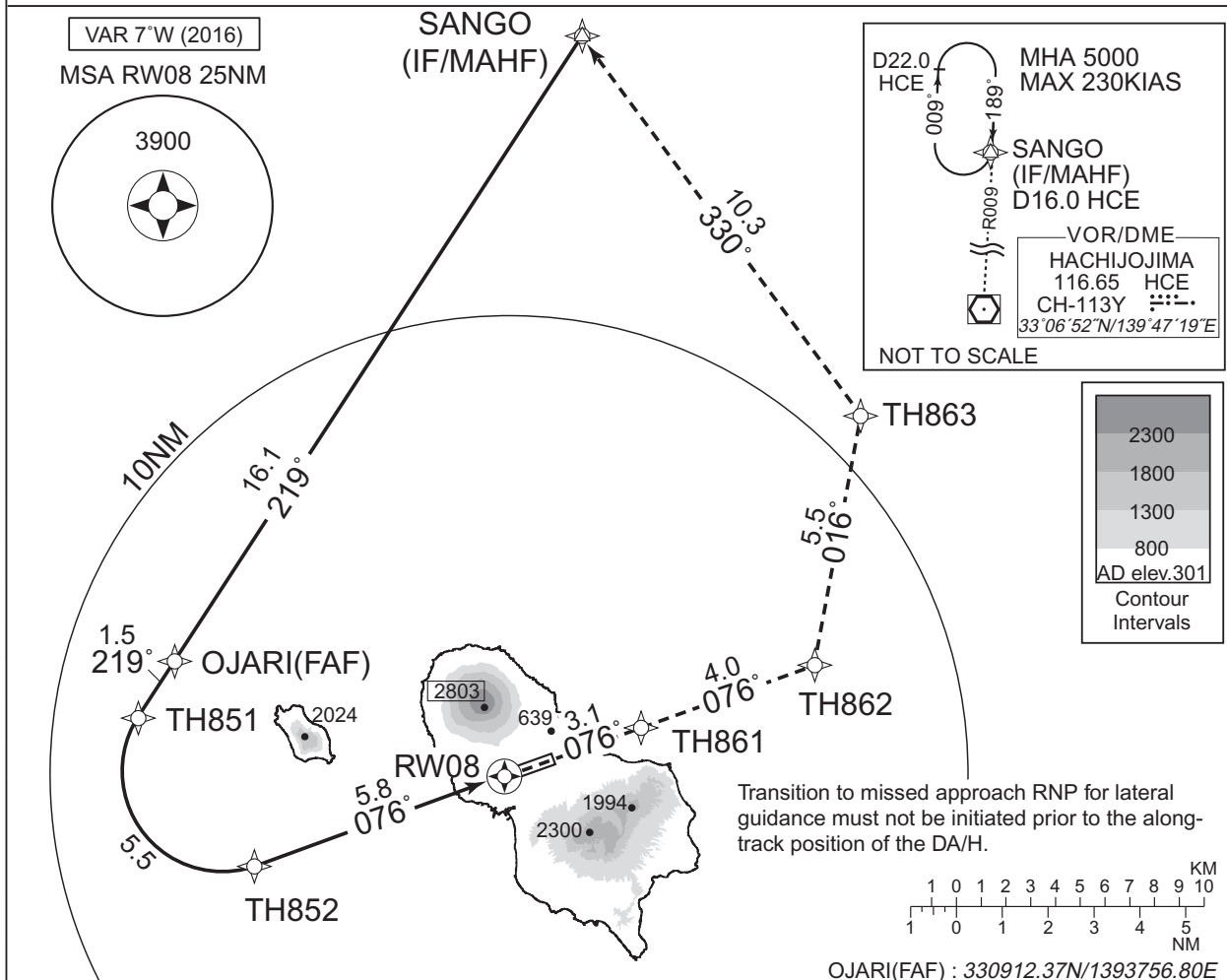
INSTRUMENT APPROACH CHART

RJTH / HACHIOJIMA

RNAV(RNP) RWY08

TOKYO CONTROL 125.9 – 134.15 318.2 – 227.3	GNSS and RF required	HACHIOJO REMOTE 118.7	NO RADAR
--	----------------------	--------------------------	----------

For uncompensated Baro-VNAV systems, procedure not authorized below 0°C / above 45°C



Missed APCH climb gradient MNM 5.0%				
MINIMA		THR elev. 282		AD elev. 301
CAT	RNP 0.29		RNP 0.30	
	DA(H)	CMV	DA(H)	CMV
A	—	—	—	—
B	—	—	—	—
C	806(524)	2000	824(542)	2000
D	—	—	—	—

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

**RNP AR**  
Special Authorization Required

## INSTRUMENT APPROACH CHART

RJTH / HACHIJOJIMA

RNAV(RNP) RWY08

RNAV(RNP) RWY08Coding 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	SANGO	—	—	-6.5	—	—	+5000	—	—	—
002	TF	OJARI	—	219 (212.3)	-6.5	16.1	—	4400	—	—	1.0
003	TF	TH851	—	219 (212.2)	-6.5	1.5	—	3914	—	-3.00	0.29 0.30
004	RF Center: THRF1 r=2.19NM	TH852	—	—	-6.5	5.5	L	2175	—	-3.00	0.29 0.30
005	TF	RW08	Y	076 (069.4)	-6.5	5.8	—	332	—	-3.00/50	0.29 0.30
006	TF	TH861	—	076 (069.5)	-6.5	3.1	—	—	—	—	0.29 0.30
007	TF	TH862	—	076 (069.5)	-6.5	4.0	—	—	—	—	1.0
008	TF	TH863	—	016 (009.6)	-6.5	5.5	—	—	—	—	1.0
009	TF	SANGO	—	330 (323.0)	-6.5	10.3	—	5000	—	—	1.0

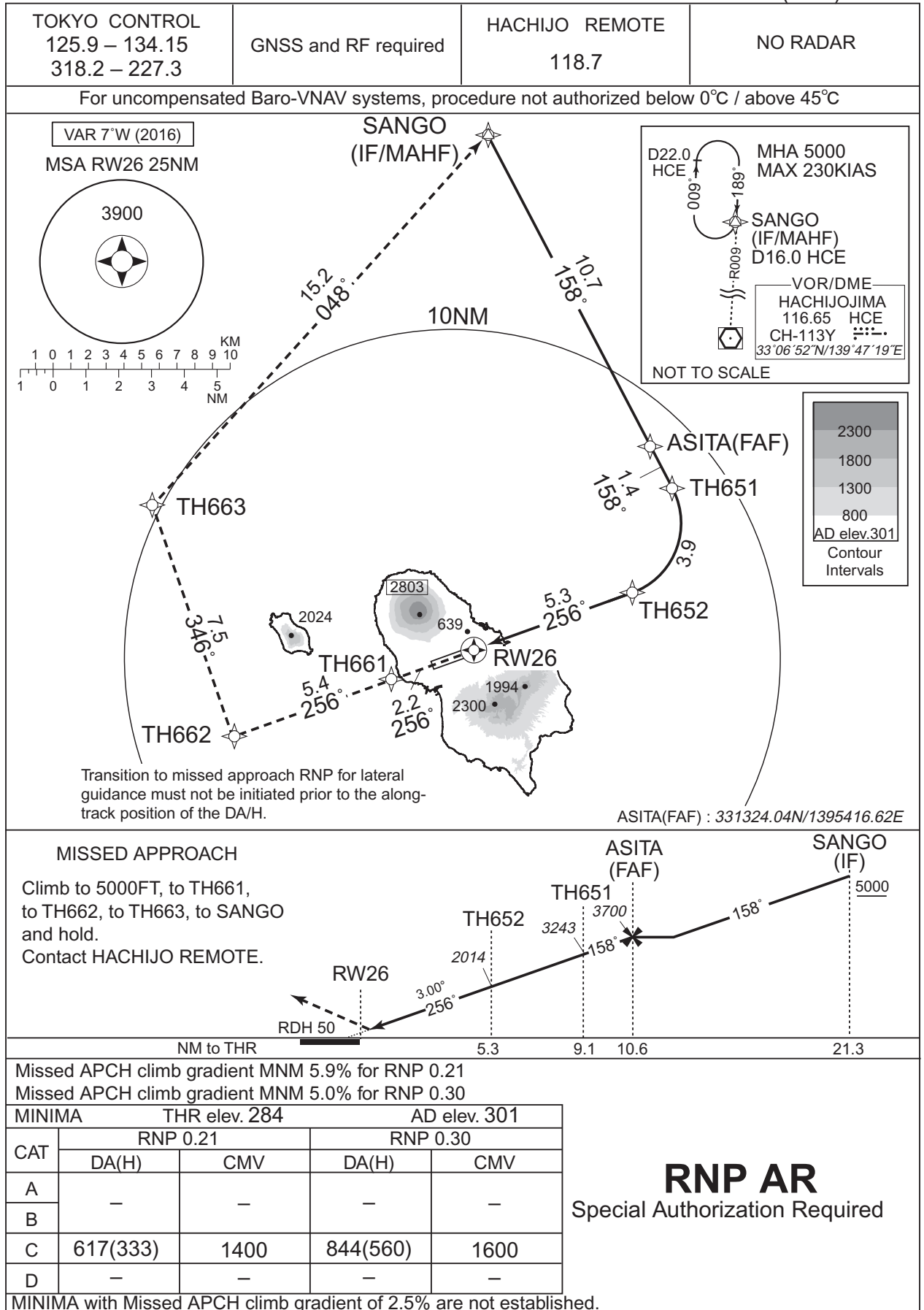
Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
SANGO	332250.44N/1394814.02E	THRF1	330644.49N/1393910.78E
OJARI	330912.37N/1393756.80E		
TH851	330754.90N/1393658.54E		
TH852	330441.17N/1394005.63E		
RW08	330643.03N/1394633.07E		
TH861	330749.27N/1395004.24E		
TH862	330913.15N/1395432.21E		
TH863	331439.22N/1395537.92E		

INSTRUMENT APPROACH CHART

RJTH / HACHIOJIMA

RNAV(RNP) RWY26



## INSTRUMENT APPROACH CHART

RJTH / HACHIJOJIMA

RNAV(RNP) RWY26

RNAV(RNP) RWY26Coding Table

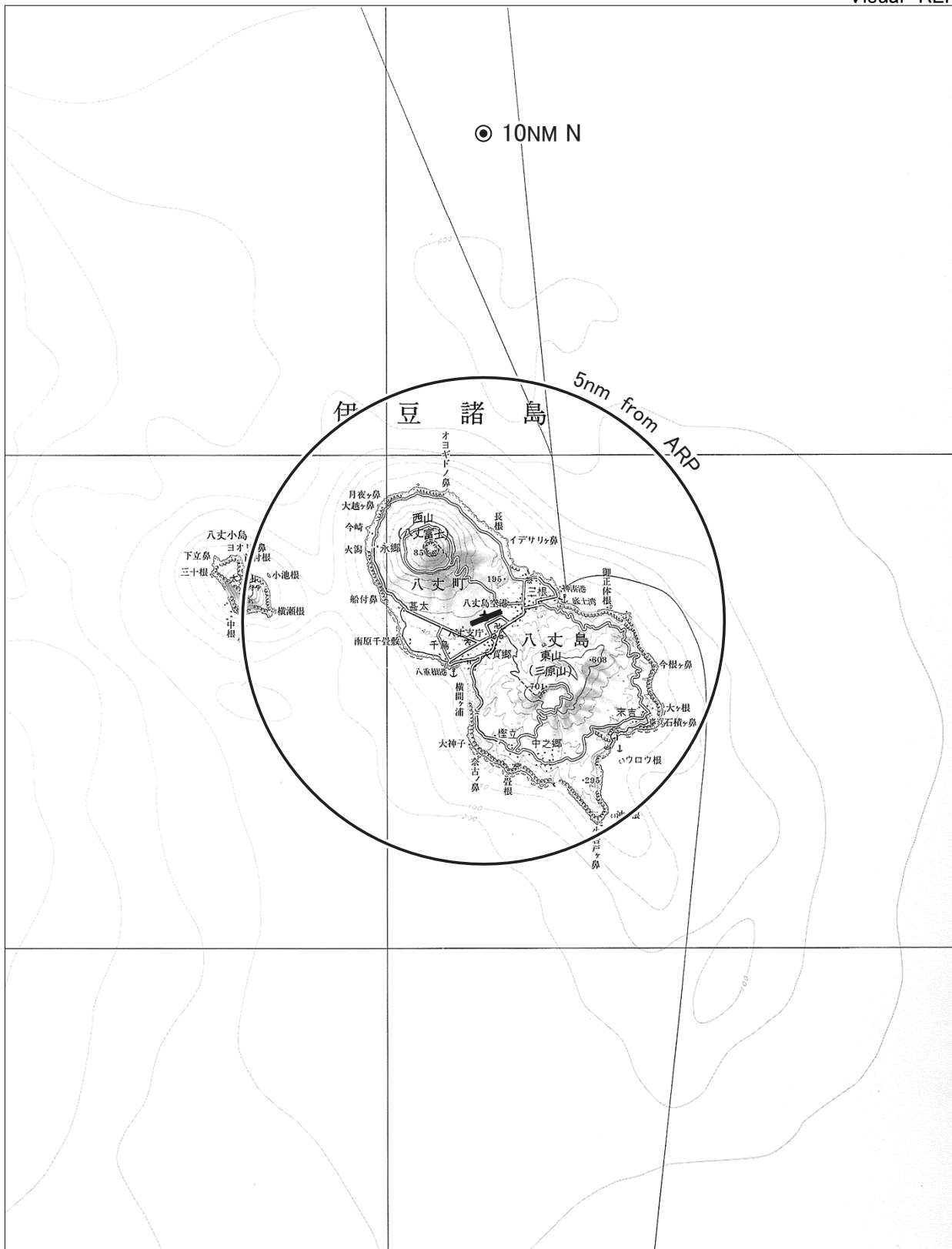
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course 'M('T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/ RDH ('/FT)	RNP Value
001	IF	SANGO	—	—	-6.5	—	—	+5000	—	—	—
002	TF	ASITA	—	158 (151.8)	-6.5	10.7	—	3700	—	—	1.0
003	TF	TH651	—	158 (151.9)	-6.5	1.4	—	3243	—	-3.00	0.21 0.30
004	RF Center: THRF2 r=2.26NM	TH652	—	—	-6.5	3.9	R	2014	—	-3.00	0.21 0.30
005	TF	RW26	Y	256 (249.5)	-6.5	5.3	—	334	—	-3.00/50	0.21 0.30
006	TF	TH661	—	256 (249.5)	-6.5	2.2	—	—	—	—	0.21 0.30
007	TF	TH662	—	256 (249.4)	-6.5	5.4	—	—	—	—	1.0
008	TF	TH663	—	346 (339.6)	-6.5	7.5	—	—	—	—	1.0
009	TF	SANGO	—	048 (041.6)	-6.5	15.2	—	5000	—	—	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
SANGO	332250.44N/1394814.02E	THRF2	331103.88N/1395242.68E
ASITA	331324.04N/1395416.62E		
TH651	331208.17N/1395505.07E		
TH652	330856.50N/1395339.00E		
RW26	330705.72N/1394745.36E		
TH661	330619.39N/1394517.79E		
TH662	330425.68N/1393916.49E		
TH663	331127.97N/1393608.44E		

RJTH/HACHIJOJIMA

Visual REP



Call sign	BRG / DIST from ARP	Remarks
10NM N	360° /10.0NM	海上 Over the sea

RJTH / HACHIOJIMA

LDG CHART



RJTH / HACHIOJIMA

Minimum Vectoring Altitude CHART



CENTER : 330654N/1394709E (ARP)

**INTENTIONALLY LEFT BLANK**