

AD 2 AERODROMES**RJAH AD 2.1 AERODROME LOCATION INDICATOR AND NAME****RJAH - HYAKURI****RJAH AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

1	ARP coordinates and site at AD	361054N / 1402453E
2	Direction and distance from (city)	12NM NE TSUCHIURA
3	Elevation/ Reference temperature	107ft / -
4	Geoid undulation at AD ELEV PSN	Nil
5	MAG VAR/ Annual change	7°W(2007)
6	AD Administration, address, telephone, telefax, telex, AFS, e-mail and/or Web-site addresses	JSDF-A
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Hyakuri Airport Office(CAB) 1601-21, Yozawa, Omitama-City, Ibaraki Prefecture, 311-3416 JAPAN TEL:0299-54-0600, FAX:0299-54-0690

RJAH AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	Customs: 2330-0815 Immigration: INTL SKED FLT hours only
3	Health and sanitation	Quarantine(human): 2330-0815 Quarantine(animal, plant): INTL SKED FLT hours only
4	AIS Briefing Office	H24 (CAB:Nil)
5	ATS Reporting Office(ARO)	Nil
6	MET Briefing Office	H24(TOKYO)
7	ATS	H24
8	Fuelling	To be issued later
9	Handling	To be issued later
10	Security	Scheduled flight only
11	De-icing	Nil
12	Remarks	HR of service at CAB OPS section 2230-1200(Daily)

RJAH AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	All the modern institutions that deal with the weight thing to Airbus A320 type.
2	Fuel/ oil types	JET A-1 JP-4 JP-4A for JSDF
3	Fuelling facilities/ capacity	To be issued later
4	De-icing facilities	Nil
5	Hangar space for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	Nil

RJAH AD 2.5 PASSENGER FACILITIES

1	Hotels	At Tsuchiura City
2	Restaurants	At Tsuchiura City
3	Transportation	Bus and taxi
4	Medical facilities	At Omitama City
5	Bank and Post Office	At Omitama City
6	Tourist Office	Nil
7	Remarks	Nil

RJAH AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	To be issued later
2	Rescue equipment	(CAB) Emergency medical equipments conveyance truck x 1 Lighting power supply truck x 1
3	Capability for removal of disabled aircraft	Nil
4	Remarks	Nil

RJAH AD 2.7 SEASONAL AVAILABILITY-CLEARING

1	Types of clearing equipment	Ask Hyakuri Airport Office(CAB)*
2	Clearance priorities	Nil
3	Remarks	*For Civil Apron and TWY W

RJAH AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron surface and strength	CIVIL APRON Surface: cement-concrete Strength: PCR 747/R/C/W/T
2	Taxiway width, surface and strength	C1, C5 Width: 28.5m C2, C4 Width: 34m C3 Width: 23m W Width: 34m Surface: Asphalt-concrete Strength: PCR 825/F/C/X/T
3	ACL and elevation	Not available
4	VOR checkpoints	Nil
5	INS checkpoints	Spot NR 1: 361042.72N/1402431.73E 2: 361040.89N/1402430.91E 3: 361039.06N/1402430.10E 4: 361037.23N/1402429.28E
6	Remarks	Nil

RJAH 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:03L/21R (Marking) RWY designation, RWY CL, RWY THR, Aiming point, TDZ, RWY side stripe, RWY turn pad CL, RWY turn pad edge (LGT) RCLL, REDL, RTHL, RENL, RWY DIST marker LGT, TKOF aiming LGT, TPIL RWY:03R/21L (Marking) RWY designation, RWY CL, RWY THR, TDZ, RWY side stripe (LGT) REDL, RTHL, RENL, RWY DIST marker LGT, TKOF aiming LGT, WBAR TWY: C1, C2, C4, C5 (Marking) TWY CL, TWY side stripe (LGT) TWY edge LGT, TWY CL LGT C3 (Marking) TWY CL (LGT) TWY edge LGT W (Marking) TWY CL, TWY side stripe, Mandatory instruction (LGT) TWY edge LGT, TWY CL LGT, Taxiing guidance sign
3	Stop bars	Nil
4	Remarks	(Marking) Overrun area (LGT) Apron flood LGT

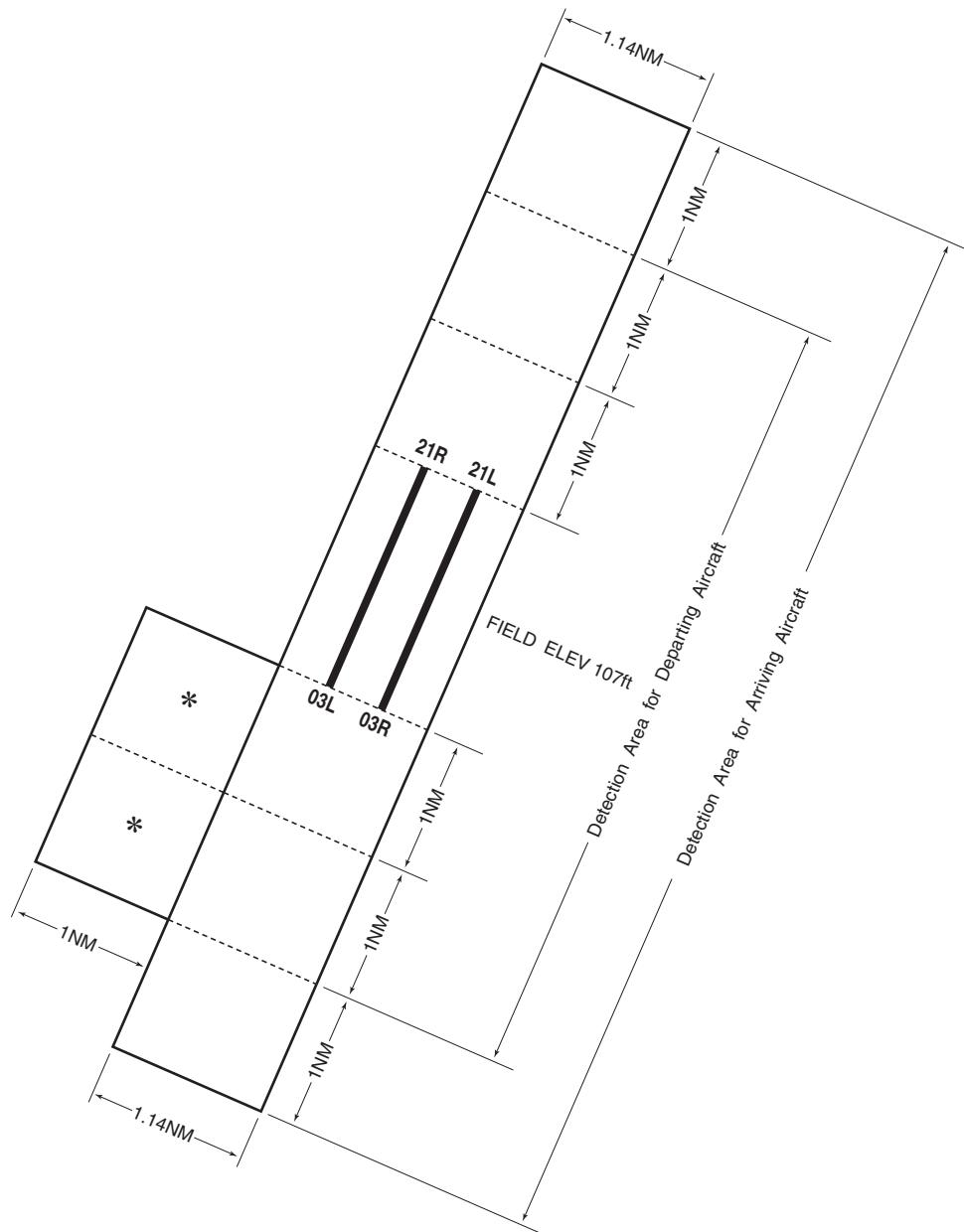
RJAH AD 2.10 AERODROME OBSTACLES

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

RJAH 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	TOKYO 30 Hours
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 ₆ , U ₈₅ , U ₇ , U ₅ , U ₃ , U ₂₅ , U _{2/T_r} , P _S , P ₅ , P ₃ , P ₂₅ , P _{SWE} , P _{SWF} , P _{SWG} , P _{SWI} , P _{SWM} , P _{SW} (domestic), E, C, W _E , W _F , W _G , W _I , W, N
8	Supplementary equipment available for providing information	Doppler Radar for Airport Weather(See below figure)
9	ATS units provided with information	TWR, APP
10	Additional information(limitation of service, etc.)	Observation is made by the Ministry of Defense.

Airspace for the advisory service concerning low level wind shear



UPPER LIMIT : 1600ft above FIELD ELEV LEVEL

LOWER LIMIT : FIELD ELEV LEVEL

* ONLY FOR DEPARTING AIRCRAFT FROM RWY 21L AND RWY 21R

RJAH AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY(M)	Strength(PCR) 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
03L	019°	2700×45	PCR 628/F/A/X/T SW67000kg (147700lbs)	To be issued later	THR ELEV:107ft
21R	199°	2700×45	DW89000kg (196200lbs) DTW137000kg (302000lbs) Asphalt-concrete		THR ELEV:107ft
03R	019°	2700×45	PCR 691/R/A/W/T SW38000kg (83700lbs)	To be issued later	THR ELEV:106.9ft TDZ ELEV:107.1ft
21L	199°	2700×45	DW61000kg (134400lbs) DTW136000kg (299800lbs) Concrete		THR ELEV:106.8ft TDZ ELEV:107.7ft
Slope of RWY	Strip Dimensions(M)			Remarks	
7	10			12	
See below figure	2820×150 2820×150			RWY grooving: RWY 03L/21R 2700mx30m	
See below figure	3300×300 3300×300				
RWY 03L				RWY 21R	
107.0ft				107.0ft	
0%					
0m				2700m	
RWY 03R				RWY 21L	
106.9ft	107.1ft	106.9ft	107.8ft	107.7ft	107.6ft
0.0074%	-0.023%	0.048%	-0.015%	-0.0021%	-0.035%
0m	675m	860m	1410m	1650m	2025m
					2700m

RJAH AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
03L	2700	2700	2700	2700	Nil
21R	2700	2700	2700	2700	Nil
03R	2700	2700	2700	2700	Nil
21L	2700	2700	2700	2700	Nil

RJAH 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
03L	SALS 420m LIH	Green -	PAPI 2.75°/LEFT 413.9m 61FT	Nil	2700m 30m Coded color (White/Red) LIH	2700m 60m Coded color (White/Yellow) LIH	Red	Nil
21R		Green -	PAPI 2.75°/LEFT 413.9m 61FT	Nil	2700m 30m Coded color (White/Red) LIH	2700m 60m Coded color (White/Yellow) LIH	Red	Nil
03R	PALS (CAT I) 840m LIH	Green Green	PAPI 2.75°/LEFT 420.9m 60.7FT	Nil	Nil	2700m 60m Coded color (White/Yellow) LIH	Red	Nil
21L	PALS (CAT I) 748m LIH	Green Green	PAPI 2.75°/LEFT 424.5m 60.7FT	Nil	Nil	2700m 60m Coded color (White/Yellow) LIH	Red	Nil
Remarks								
10								
RWY THR ID LGT for RWY21R THR(Color: White)								

RJAH AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 361104N1402533E, White/Green EV4sec, HO
2	LDI location and LGT Anemometer location and LGT	LDI : LGTD
3	TWY edge and center line lighting	TWY edge LGT : Blue TWY CL LGT (C1, C2, C4, C5 and W) : Green
4	Secondary power supply/ switch-over time	Within 15 SEC : TWY edge LGT(TWY W), TWY CL LGT (TWY W)
5	Remarks	WDI LGT, OBST LGT

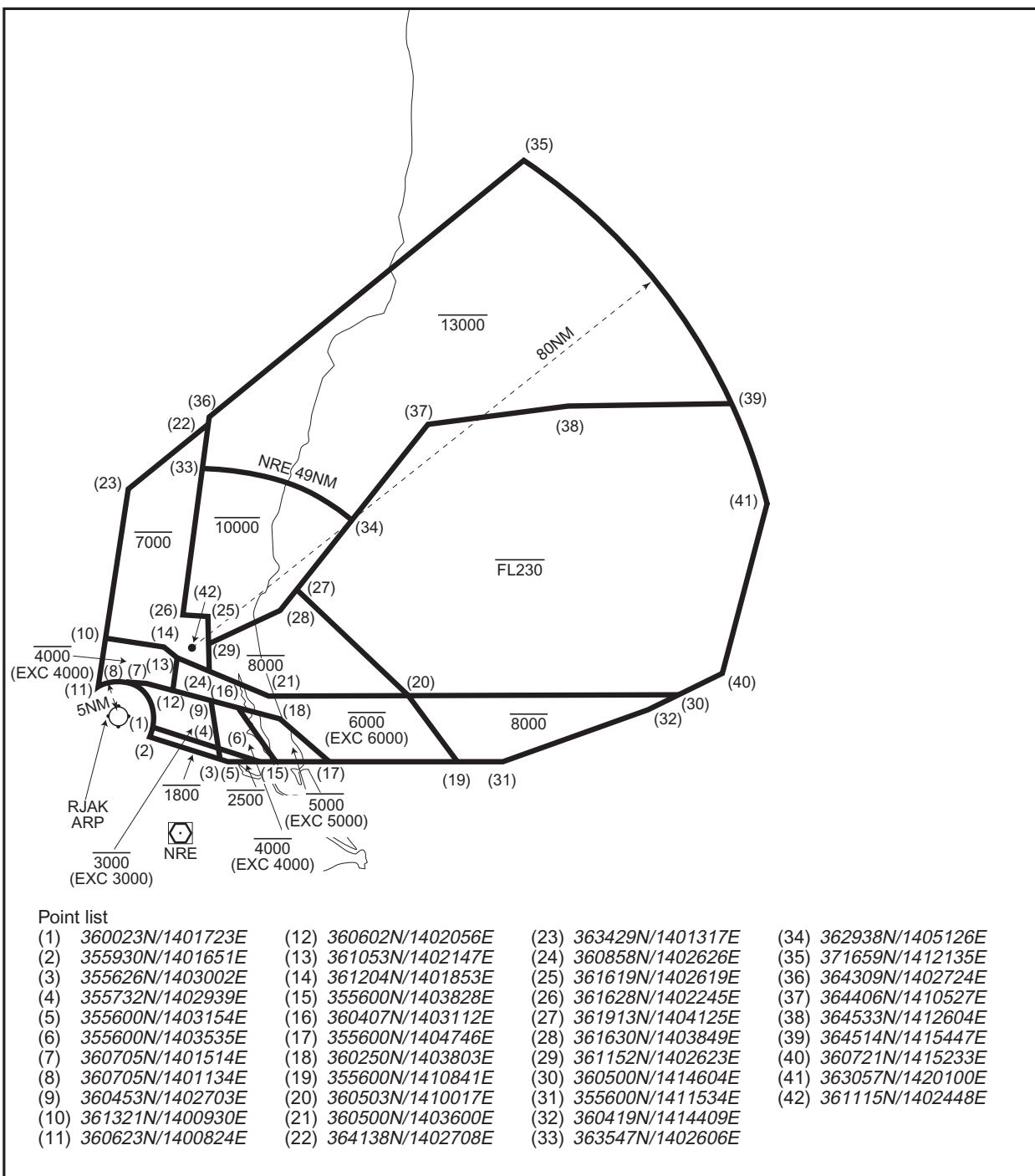
RJAH AD 2.16 HELICOPTER LANDING AREA

To be issued later

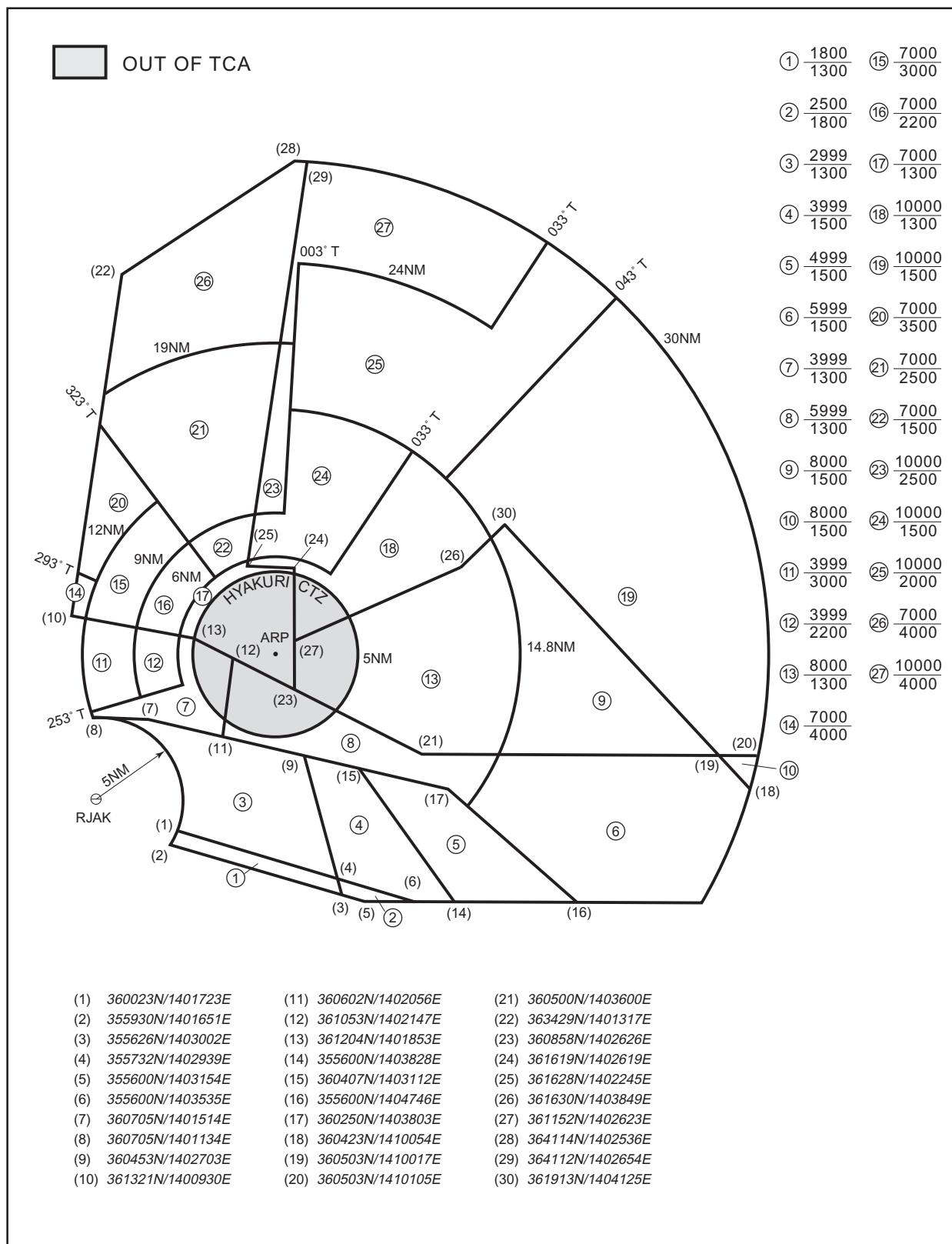
RJAH AD 2.17 ATS AIRSPACE

Designation and lateral limits		Vertical limits (ft)	Airspace classification	ATS unit call sign Language	Remarks
1		2	3	4	6
HYAKURI CTR	(1)Area within a radius 5nm of HYAKURI ARP (3611N14025E), in the west side of a line connecting 361553N/1402433E and 360600N/1402339E (2)Area within a radius 5nm of HYAKURI ARP, in the east side of a line connecting 361553N/1402433E and 360600N/1402339E, and in the south side of a line connecting 360957N/1402401E and 360739N/1402935E (3)Area within a radius of 5nm HYAKURI ARP, in the east side of a line connecting 361553N/1402433E and 360600N/1402339E, and in the north side of a line connecting 360957N/1402401E and 360739N/1402935E	3,000 or below 6,000 or below (exc 6,000) 6,000 or below	D	Hyakuri Tower En	
HYAKURI ACA	SEE RJAH ATTACHED CHART	E	Hyakuri Approach Hyakuri Departure En		
HYAKURI TCA	SEE RJAH ATTACHED CHART	E	Hyakuri TCA En		

百里進入管制区
Hyakuri Approach Control Area



百里ターミナルコントロールエリア
Hyakuri Terminal Control Area

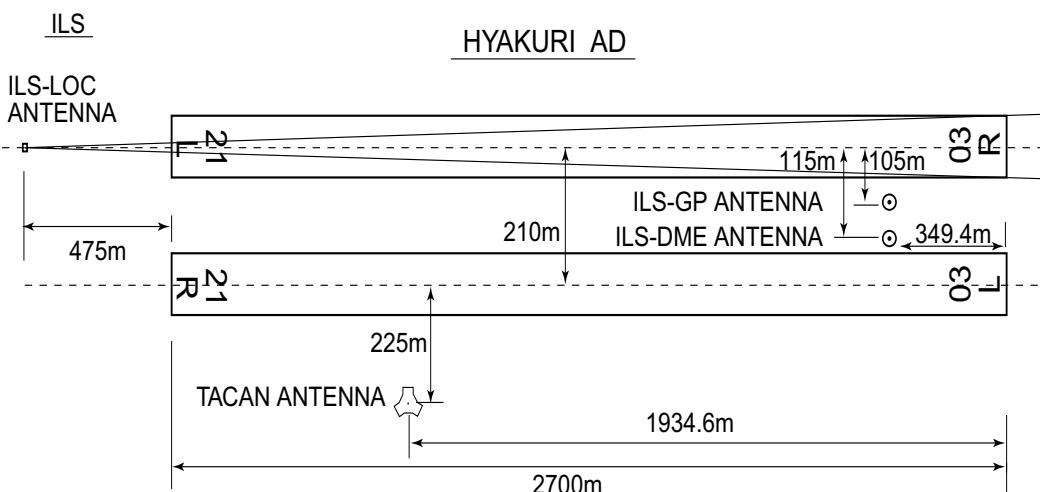


RJAH AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
APP/ASR	Hyakuri Approach/ Hyakuri Radar	362.3MHz 305.7MHz(1) 261.2MHz 120.1MHz 123.875MHz 243.0MHz(E) 121.5MHz(E)	H24	(1) Primary (2) For rescue only *AVBL on request
DEP	Hyakuri Departure	362.3MHz 120.1MHz	H24	
TWR	Hyakuri Tower	323.8MHz(1) 236.8MHz 118.025MHz(1) 126.2MHz 138.05MHz(2) 247.0MHz(2)* 123.1MHz(2)* 243.0MHz(E) 121.5MHz(E)	H24	
GCA-ASR -PAR	Hyakuri Radar	270.8MHz 335.6MHz 289.9MHz 300.4MHz 306.2MHz 310.8MHz 321.2MHz 125.3MHz 127.975MHz 134.1MHz	H24	ASR RWY 03L/21R, 03R/21L PAR RWY 03R/21L Glide path RWY03R 2.75° Glide path RWY21L 2.75°
GND	Hyakuri Ground	275.8MHz(1) 247.8MHz 119.5MHz(1) 126.2MHz	H24	
TCA	Hyakuri TCA	124.8MHz	2300 - 1100 SUN - THU (EXC HOL)	

RJAH 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 (7°W/2009)	HUC	113.3MHz	H24	361113.22N/ 1402449.42E		VOR Unusable: R030-040 beyond 35NM BLW 2000ft. R070-080 beyond 35NM BLW 2000ft. R080-130 beyond 37NM BLW 2000ft. R130-140 beyond 32NM BLW 2000ft. R140-150 beyond 38NM BLW 2000ft. R270-280 beyond 38NM BLW 5000ft. R280-310 beyond 28NM BLW 5000ft. R310-320 beyond 30NM BLW 4000ft. R320-330 beyond 35NM BLW 4000ft.
TACAN	HUC	1167MHz (CH-80X)	H24	361114.81N/ 1402447.53E	162FT	TACAN Unusable: R100-110 beyond 37NM BLW 2000ft. R120-130 beyond 25NM BLW 2000ft. R130-140 beyond 38NM BLW 2000ft. R270-280 beyond 30NM BLW 5000ft. R280-290 beyond 25NM BLW 5000ft. R290-300 beyond 34NM BLW 5000ft. R300-310 beyond 27NM BLW 5000ft. R310-320 beyond 30NM BLW 5000ft.
ILS-LOC 03R	IHY	109.3MHz	H24	361147N/ 1402520E		LOC : 475m away FM RWY 21L THR, BRG (MAG) 027°
ILS-GP 03R	-	332.0MHz	H24	361022.8N/ 1402439.3E		GP : 349.4m inside FM RWY 03R THR, 105m W of RCL. Angle 2.75° HGT of ILS reference datum 16.5m(54FT)
ILS-DME 03R	IHY	991.0MHz (CH-30X)	H24	361022.9N/ 1402438.0E	128FT	DME : 349.4m inside of RWY03R THR, 115m W of RCL.
MSAS		1575.42MHz	H24			Transmitting antennas are satellite based.



REMARKS : 1 LOC Beam BRG(MAG) 027°
 2 HGT of ILS REF datum 16.5m(54ft)
 3 GP angle 2.75°

RJAH AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Airport regulations

Civil transient aircraft:
PPR to CAB Hyakuri Airport Office(0299-54-0600) for parking

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

RJAH AD 2.21 NOISE ABATEMENT PROCEDURES

Nil

RJAH AD 2.22 FLIGHT PROCEDURES**1. WX MINIMA CONCERNING PAR/ASR APCH PROCEDURE**

PAR RWY03R

MINIMA		THR elev. 107		AD elev. 107	
CAT			CIRCLING		
	DA(H)	RVR/ CMV	MDA(H)	VIS	
A	307(200)	750	580(473)	1600	
B			660(553)	2400	
C				3200	
D					

PAR RWY21L

MINIMA		THR elev. 107		AD elev. 107	
CAT			CIRCLING		
	DA(H)	RVR/ CMV	MDA(H)	VIS	
A	307(200)	750	580(473)	1600	
B			660(553)	2400	
C				3200	
D					

ASR RWY03R

MINIMA		THR elev. 107		AD elev. 107	
CAT			CIRCLING		
	MDA(H)	RVR/ CMV	MDA(H)	VIS	
A	520(413)	520(413)	900	1600	
B			1000	2400	
C			660(553)	3200	
D					

ASR RWY21L

MINIMA		THR elev. 107		AD elev. 107	
CAT			CIRCLING		
	MDA(H)	RVR/ CMV	MDA(H)	VIS	
A	540(433)	540(433)	900	1600	
B			1000	2400	
C			660(553)	3200	
D					

ASR RWY03L

MINIMA		THR elev. 107		AD elev. 107	
CAT			CIRCLING		
	MDA(H)	RVR/ CMV	MDA(H)	VIS	
A	520(413)	520(413)	1200	1600	
B			1300		
C			1400	2400	
D			1600	3200	

ASR RWY21R

MINIMA		THR elev. 107		AD elev. 107	
CAT			CIRCLING		
	MDA(H)	RVR/ CMV	MDA(H)	VIS	
A	540(433)	540(433)	1500	1600	
B			1800	2400	
C			2000	3200	
D					

2. TKOF WX MINIMA		RWY	REDL AVBL		REDL OUT	
TKOF ALTN AP FILED	03R		CEIL-RVR	CEIL-VIS	CEIL-RVR	CEIL-VIS
	03L	200' - 800m	200' - 800m	-	200' - 800m	AVBL LDG MINIMA
	21R					
	21L					
	03R					
OTHER	03L					
	21R					
	21L					
	03R					

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

TKOF WX MINIMA for OGITU DEPARTURE and HITAKA DEPARTURE only								
	RWY	ACFT CAT	REDL & RCLL*		REDL or RCLL* or RCL Marking		NIL (DAYTIME ONLY)	
			CEIL-RVR	CEIL-VIS	CEIL-RVR	CEIL-VIS	CEIL-RVR	CEIL-VIS
Multi-Engine ACFT with TKOF ALTN AP FILED	03R	A,B,C,D	-	-	0'- 400m	0'- 400m	-	0'- 500m
	03L		200'- 1600m	200'- 1600m	200'- 1600m	200'- 1600m	-	200'- 1600m
	21R		200'- 1600m	200'- 1600m	200'- 1600m	200'- 1600m	-	200'- 1600m
	21L		-	-	0'- 400m	0'- 400m	-	0'- 500m
OTHER	03R	A,B,C,D	AVBL LDG MINIMA					
	03L							
	21R							
	21L							

Note : RWY03R/21L RCLL not installed.

3. Automated Radar Terminal System (ARTS)

百里進入管制区を航行する航空機は、管制機関の指示があつた場合原則として自動高度通報機能を有する 4096 コードによる応答装置を作動させること。
上記指示を受けた当該応答装置を有しない航空機は、管制機間に對しその旨を通報すること。

When instructed by ATC, aircraft flying in and out of Hyakuri Approach control area in principle will reply on 4096 Code(Mode A/3) with automatic altitude reporting capability (Mode C); Aircraft not equipped with the said transponder shall report ATC to that effect.

4. Lost communication procedures for arrival aircraft under radar navigational guidance

If radio communications with HYAKURI Radar are lost for 1 minute in the pattern or 5 seconds (PAR)/15 seconds (ASR) on final approach, squawk Mode A/3 Code 7600 and;

- (I)
 1. Contact HYAKURI Radar/Tower.
 2. If unable, proceed in accordance with visual flight rules.
 3. If unable, proceed to TACAN IAF or NAKAH IAF at last assigned altitude or 4,000 feet whichever is higher, and execute instrument approach.
- (II) Procedures other than above will be issued when situation required.

RJAH AD 2.23 ADDITIONAL INFORMATION

Nil

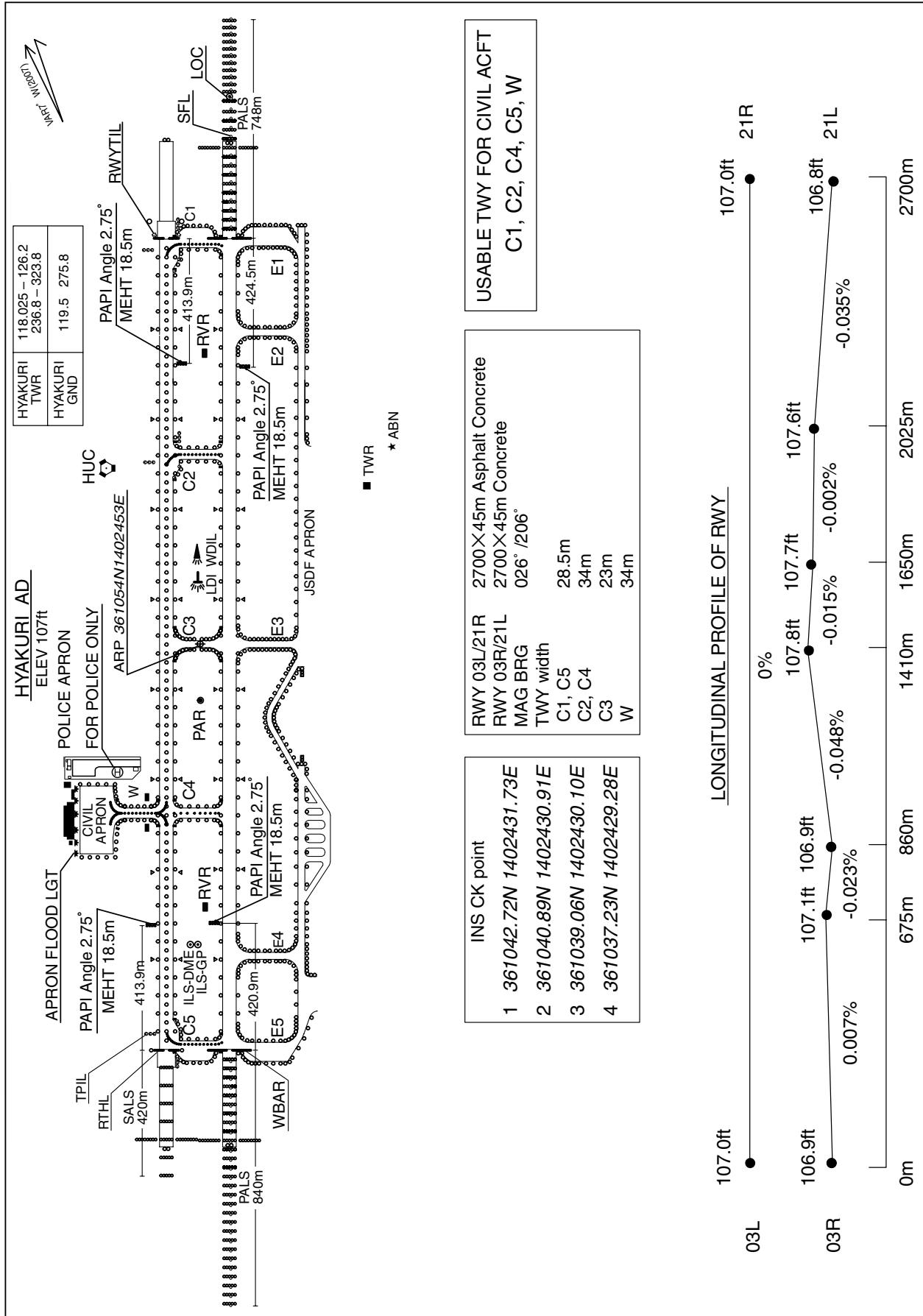
RJAH AD 2.24 CHARTS RELATED TO AN AERODROME

Aerodrome/Heliport Chart -1
Aerodrome/Heliport Chart -2
Standard Departure Chart - Instrument (OGITU)
Standard Departure Chart - Instrument (NAKAH)*
Standard Departure Chart - Instrument (HOKTA, HOKTA EAST)*
Standard Departure Chart - Instrument (DAPPE)*
Standard Departure Chart - Instrument (HITAKA-RNAV)
Standard Arrival Chart - Instrument (DAIGO)*
Standard Arrival Chart - Instrument (TATSU-RNAV)
Instrument Approach Chart (ILS Z or LOC Z RWY03R)*
Instrument Approach Chart (ILS Y or LOC Y RWY03R)*
Instrument Approach Chart (ILS X or LOC X RWY03R)
Instrument Approach Chart (ILS W or LOC W RWY03R)*
Instrument Approach Chart (VOR RWY03R)
Instrument Approach Chart (VOR RWY03L)
Instrument Approach Chart (VOR RWY21L)
Instrument Approach Chart (VOR RWY21R)
Instrument Approach Chart (VOR B)
Instrument Approach Chart (TACAN Z RWY03R)*
Instrument Approach Chart (TACAN Y RWY03R)*
Instrument Approach Chart (TACAN Z RWY03L)*
Instrument Approach Chart (TACAN Y RWY03L)*
Instrument Approach Chart (TACAN Z RWY21L)*
Instrument Approach Chart (TACAN Y RWY21L)*
Instrument Approach Chart (TACAN Z RWY21R)*
Instrument Approach Chart (TACAN Y RWY21R)*
Instrument Approach Chart (TACAN A)*
Instrument Approach Chart (RNP RWY03L)
Instrument Approach Chart (RNP RWY21R)
Other Chart (MVA CHART)

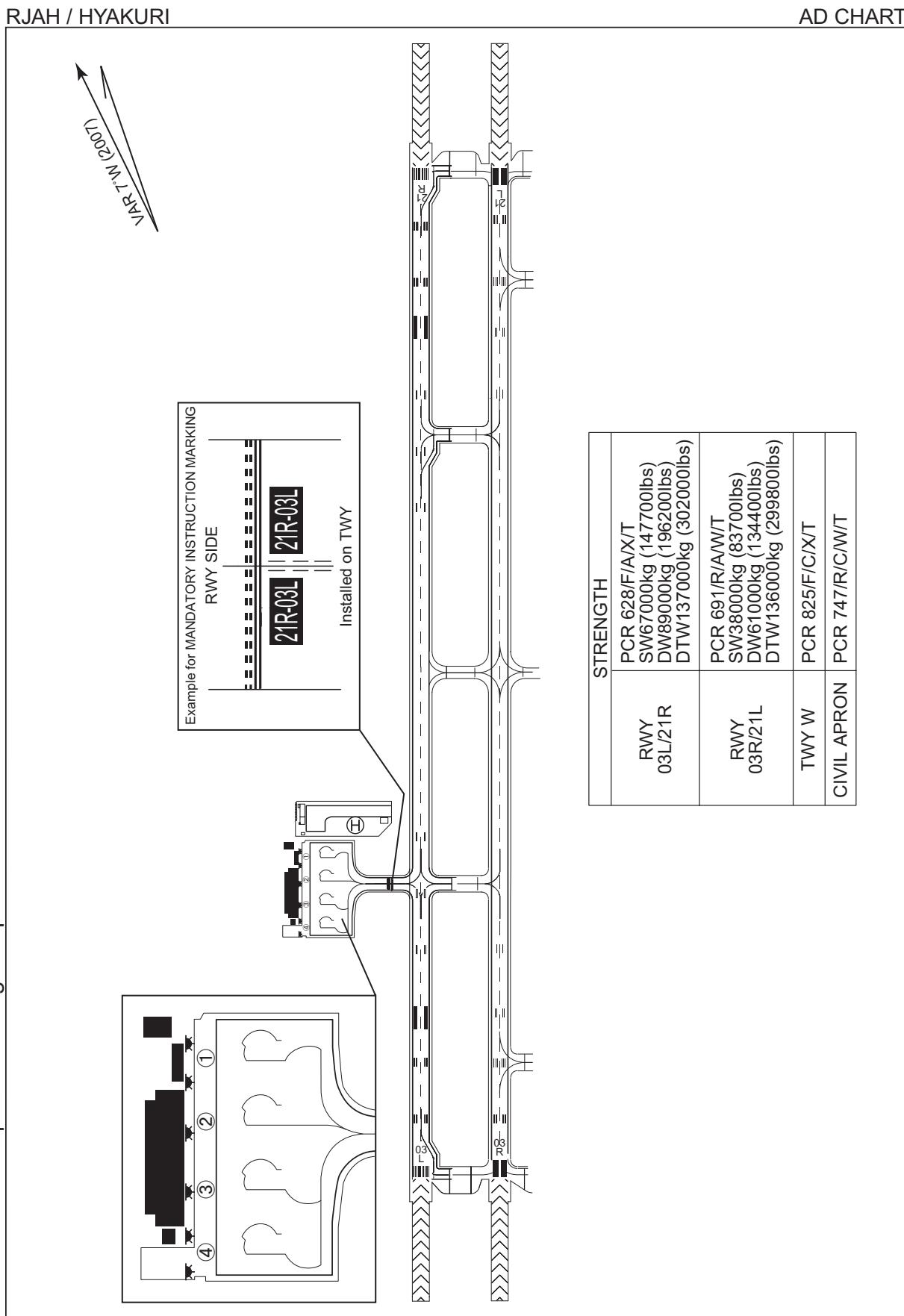
*: Designed in accordance with provisional standards for FLIGHT PROCEDURE DESIGN.

RJAH / HYAKURI

AD CHART



CHANGE : Description of strength of pavement.



STANDARD DEPARTURE CHART - INSTRUMENT

RJAH / HYAKURI

SID and TRANSITION

OGITU TWO DEPARTURE

RWY 03R/03L : Climb RWY HDG to 600FT,...

RWY 21R/21L : Climb RWY HDG to 600FT, turn right HDG 062° to intercept and proceed...

...via HUC R032 to OGITU.

Cross HUC R032/5.5DME at or below 7000FT, cross OGITU at or below 10000FT.

Note This SID for VOR equipped aircraft only.

RWY03L : 4.1% climb gradient required up to 600FT.

OBST ALT 141FT located at 0.1NM 338° FM end of RWY03L.

IWAKI TRANSITION

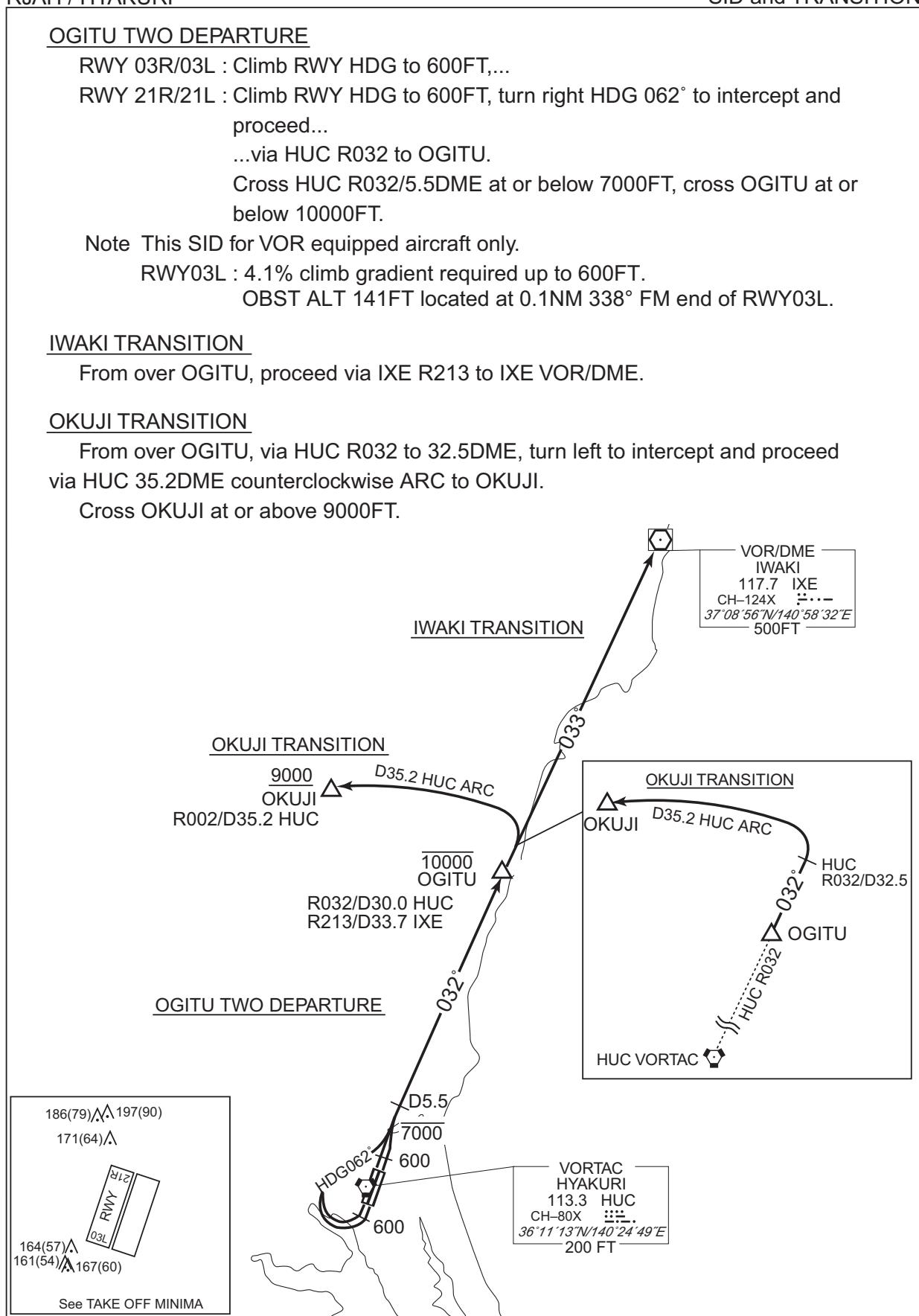
From over OGITU, proceed via IXE R213 to IXE VOR/DME.

OKUJI TRANSITION

From over OGITU, via HUC R032 to 32.5DME, turn left to intercept and proceed via HUC 35.2DME counterclockwise ARC to OKUJI.

Cross OKUJI at or above 9000FT.

CHANGE:OBST.



STANDARD DEPARTURE CHART - INSTRUMENT

RJAH / HYAKURI

SID

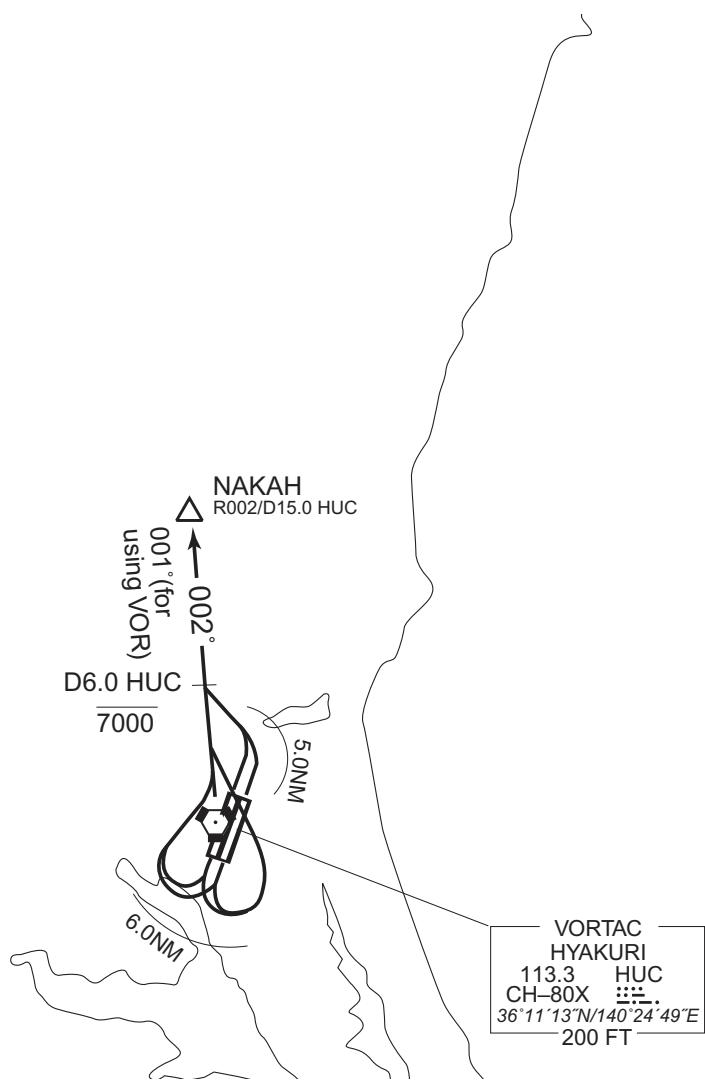
NAKAH FOUR DEPARTURE

RWY 03R/03L : Turn left within 5.0NM....

RWY 21R/21L : Turn right or left within 6.0NM....

....climb via HUC R002(R001 for using VOR) to NAKAH.

Cross HUC R002(R001 for using VOR) /6.0DME at or below 7000FT.



CHANGE : NIKKO TRANSITION abolished. NIKKO NDB(ID) abolished.

STANDARD DEPARTURE CHART - INSTRUMENT

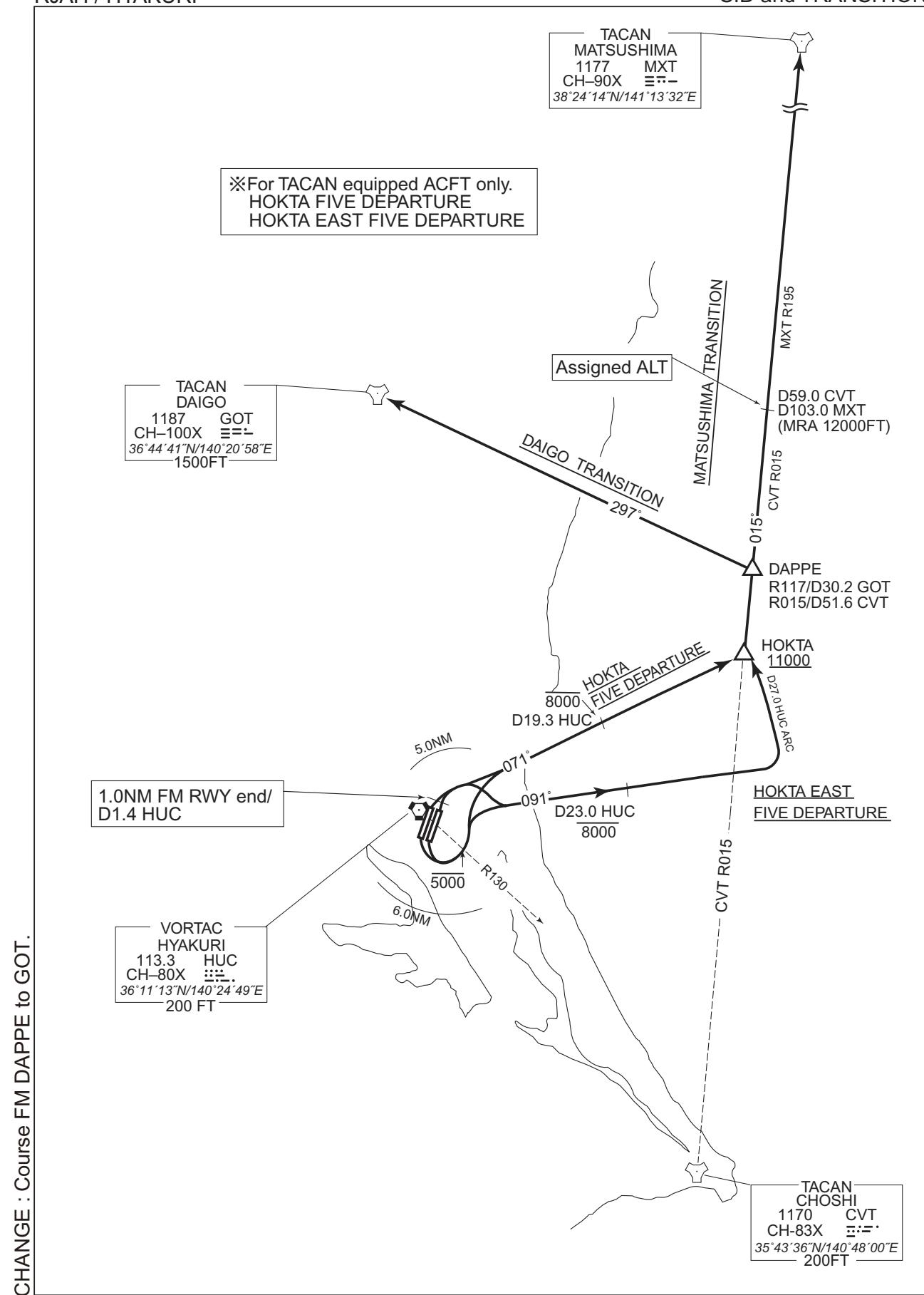
RJAH / HYAKURI	SID and TRANSITION
HOKTA FIVE DEPARTURE	
RWY 03R/03L : Climb via RWY HDG until 1.0NM from RWY end/HUC 1.4DME, turn right within 5.0NM....	
RWY 21R/21L : Turn left within 6.0NM....climb via HUC R071 to HOKTA. Cross HUC R071/19.3DME at or below 8000FT, cross HOKTA at or above 11000FT.	
Note1 : Take off RWY 21R/21L, cross HUC R130 at or below 5000FT. Note2 : This SID for TACAN equipped aircraft only.	
HOKTA EAST FIVE DEPARTURE	
RWY 03R/03L : Climb via RWY HDG until 1.0NM from RWY end/HUC 1.4DME, turn right within 5.0NM....	
RWY 21R/21L : Turn left within 6.0NM....climb via HUC R091 to HUC 27.0DME, turn left via HUC 27.0DME counterclockwise ARC to HOKTA. Cross HUC R091/23.0DME at or below 8000FT, cross HOKTA at or above 11000FT.	
Note1 : Take off RWY 21R/21L, cross HUC R130 at or below 5000FT. Note2 : This SID for TACAN equipped aircraft only.	
MATSUSHIMA TRANSITION	
From over HOKTA, via CVT R015 to CVT 59.0DME, MXT R195 to MXT TACAN. Cross CVT R015/59.0DME (MXT R195/103.0DME) at assigned altitude.	
Note CVT R015/59.0DME (MXT R195/103.0DME) : MXT MRA 12000FT.	
DAIGO TRANSITION	
From over HOKTA, via CVT R015 to DAPPE, via GOT R117 to GOT TACAN.	

CHANGE : Course FM DAPPE to GOT.

STANDARD DEPARTURE CHART - INSTRUMENT

RJAH / HYAKURI

SID and TRANSITION



STANDARD DEPARTURE CHART - INSTRUMENT

RJAH / HYAKURI

SID and TRANSITION

DAPPE ONE DEPARTURE

RWY 03R/03L : Climb via RWY HDG until 1.0NM from RWY end/HUC 1.4DME,
turn right within 5.0NM....

RWY 21R/21L : Turn left within 6.0NM....
....climb via HUC R055 to DAPPE.

Cross HUC R055/31.0DME at or below 10000FT.

Note1 : Take off RWY 21R/21L, cross HUC R130 at or below 5000FT.

Note2 : This SID for TACAN equipped aircraft only.

CHOSHI TRANSITION

From over DAPPE, via CVT R015 to CVT TACAN via ANKOH.

Cross ANKOH at or above FL170.

HYAKURI TRANSITION

From over DAPPE, via CVT R015 to ANKOH, via HUC R089 to HUC VORTAC.

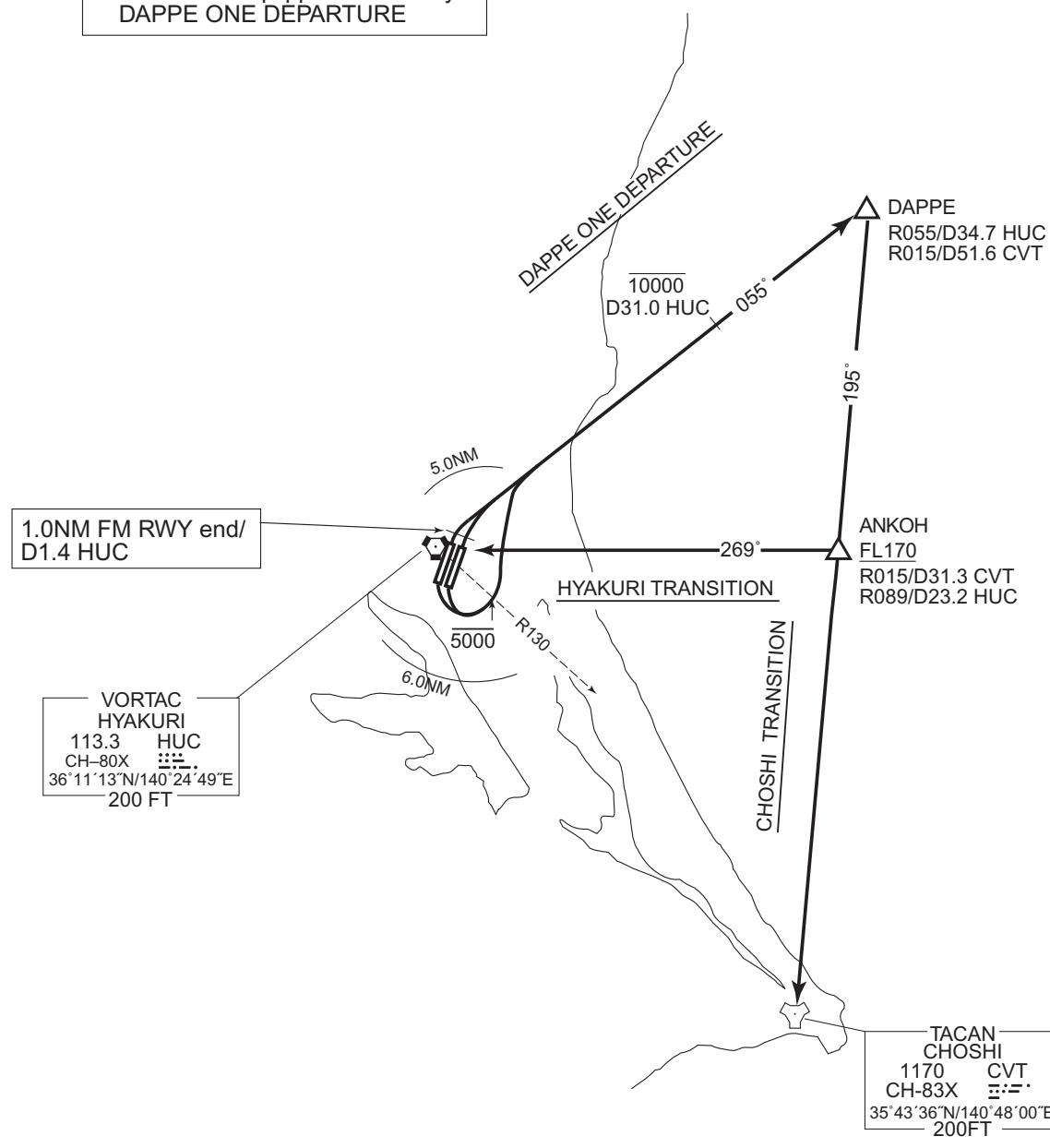
Cross ANKOH at or above FL170.

STANDARD DEPARTURE CHART - INSTRUMENT

RJAH / HYAKURI

SID and TRANSITION

※For TACAN equipped ACFT only.
DAPPE ONE DEPARTURE



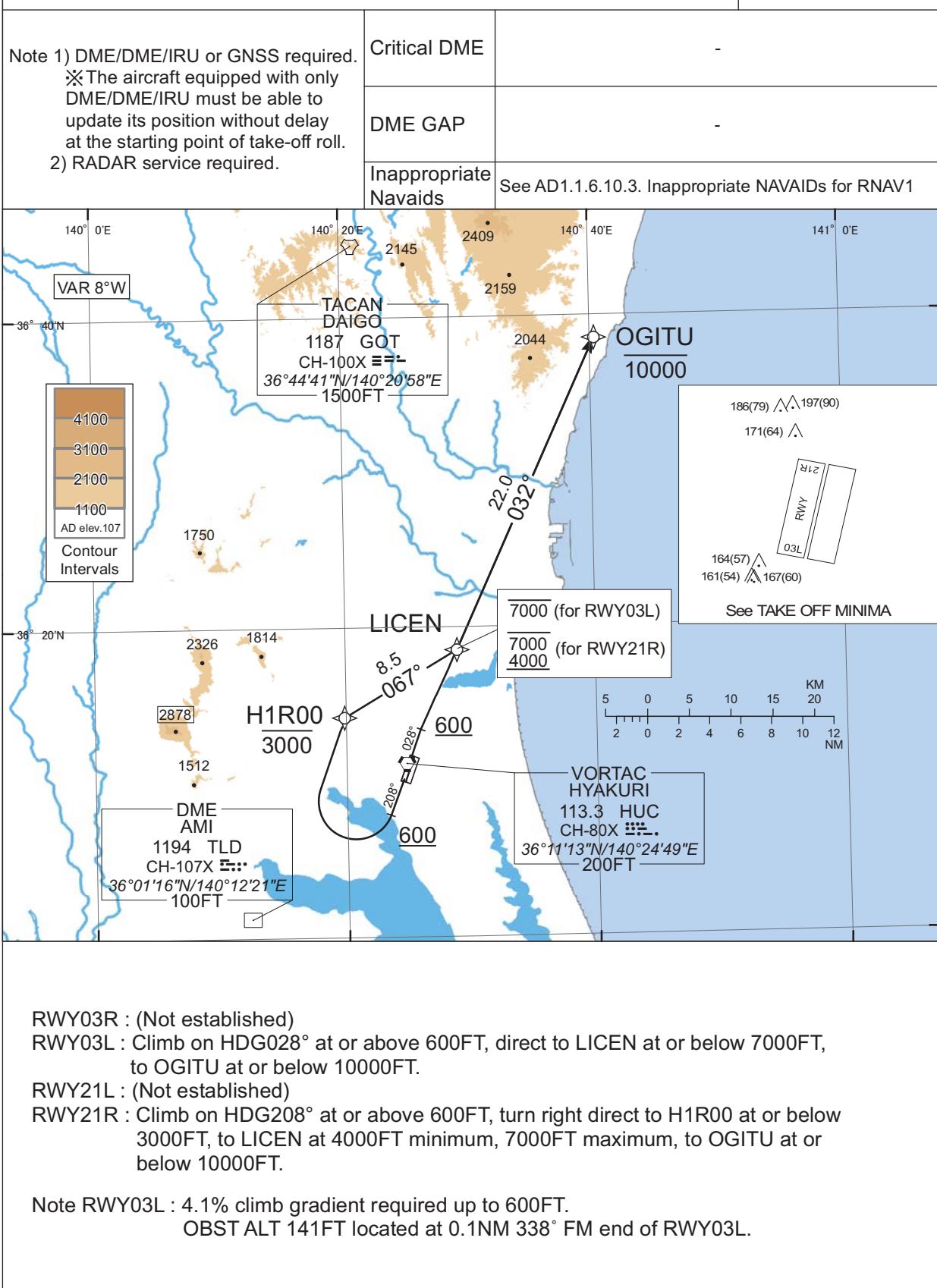
STANDARD DEPARTURE CHART - INSTRUMENT

RJAH / HYAKURI

RNAV SID

HITAKA ONE DEPARTURE

RNAV1



STANDARD DEPARTURE CHART - INSTRUMENT

RJAH / HYAKURI

RNAV SID

HITAKA ONE DEPARTURE

RWY03L

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	-	-	028 (019.8)	-7.8	-	-	+600	-	-	RNAV1
002	DF	LICEN	-	-	-7.8	-	-	-7000	-	-	RNAV1
003	TF	OGITU	-	032 (024.6)	-7.8	22.0	-	-10000	-	-	RNAV1

RWY21R

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	-	-	208 (199.8)	-7.8	-	-	+600	-	-	RNAV1
002	DF	H1R00	-	-	-7.8	-	R	-3000	-	-	RNAV1
003	TF	LICEN	-	067 (059.5)	-7.8	8.5	-	-7000 +4000	-	-	RNAV1
004	TF	OGITU	-	032 (024.6)	-7.8	22.0	-	-10000	-	-	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates
H1R00	361413.1N/1401954.3E
LICEN	361830.6N/1402857.4E
OGITU	363831.7N/1404022.8E

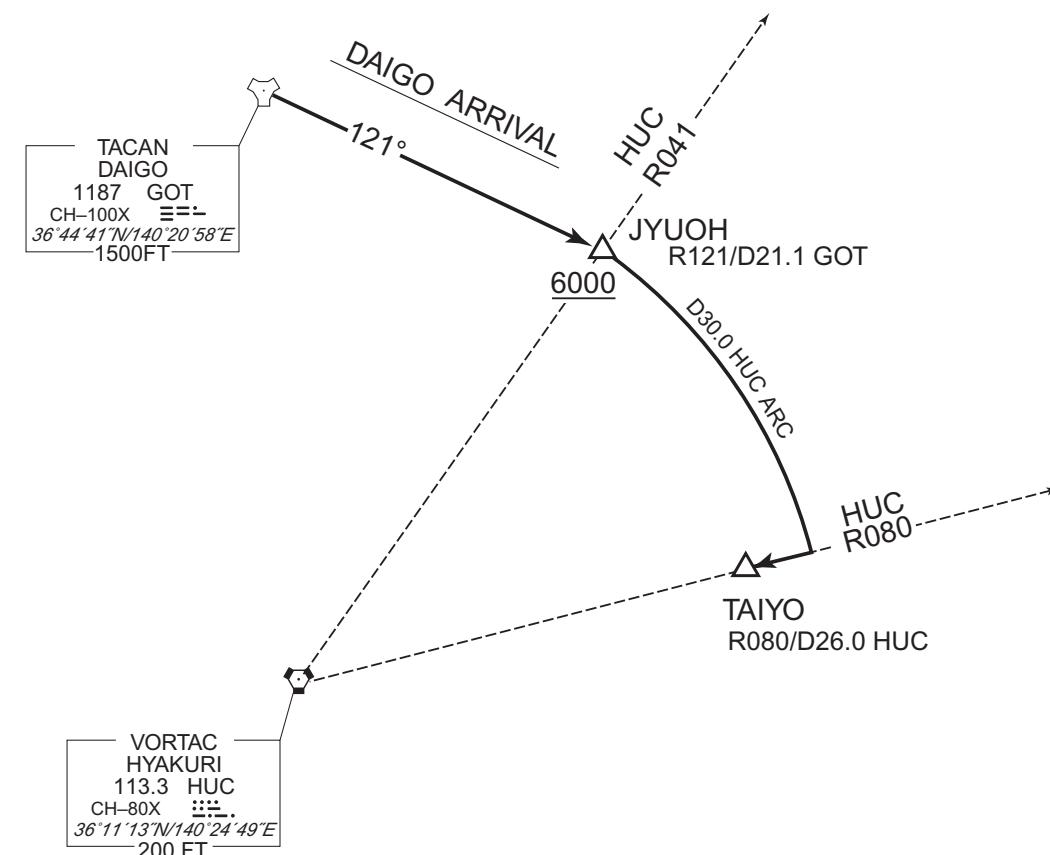
CHANGE : Waypoint Coordinates added.

STANDARD ARRIVAL CHART -INSTRUMENT

RJAH / HYAKURI

STAR

CHANGE : Course, DIST FM GOT to JYUOH.



STANDARD ARRIVAL CHART -INSTRUMENT

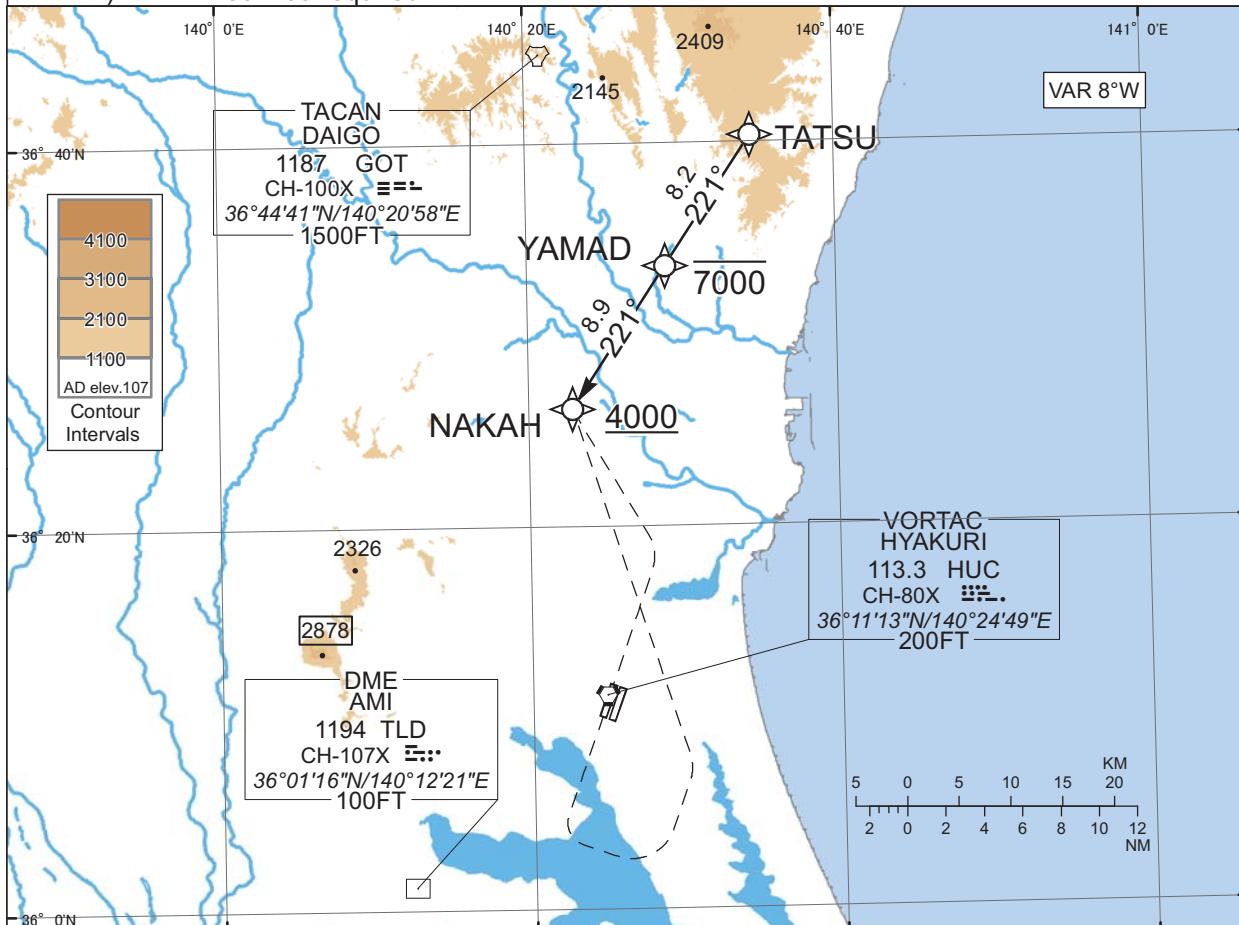
RJAH / HYAKURI

TATSU ARRIVAL

RNAV STAR

RNAV1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.



From TATSU, to YAMAD at or below 7000FT, to NAKAH at or above 4000FT.

Critical DME	-
DME GAP	-
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

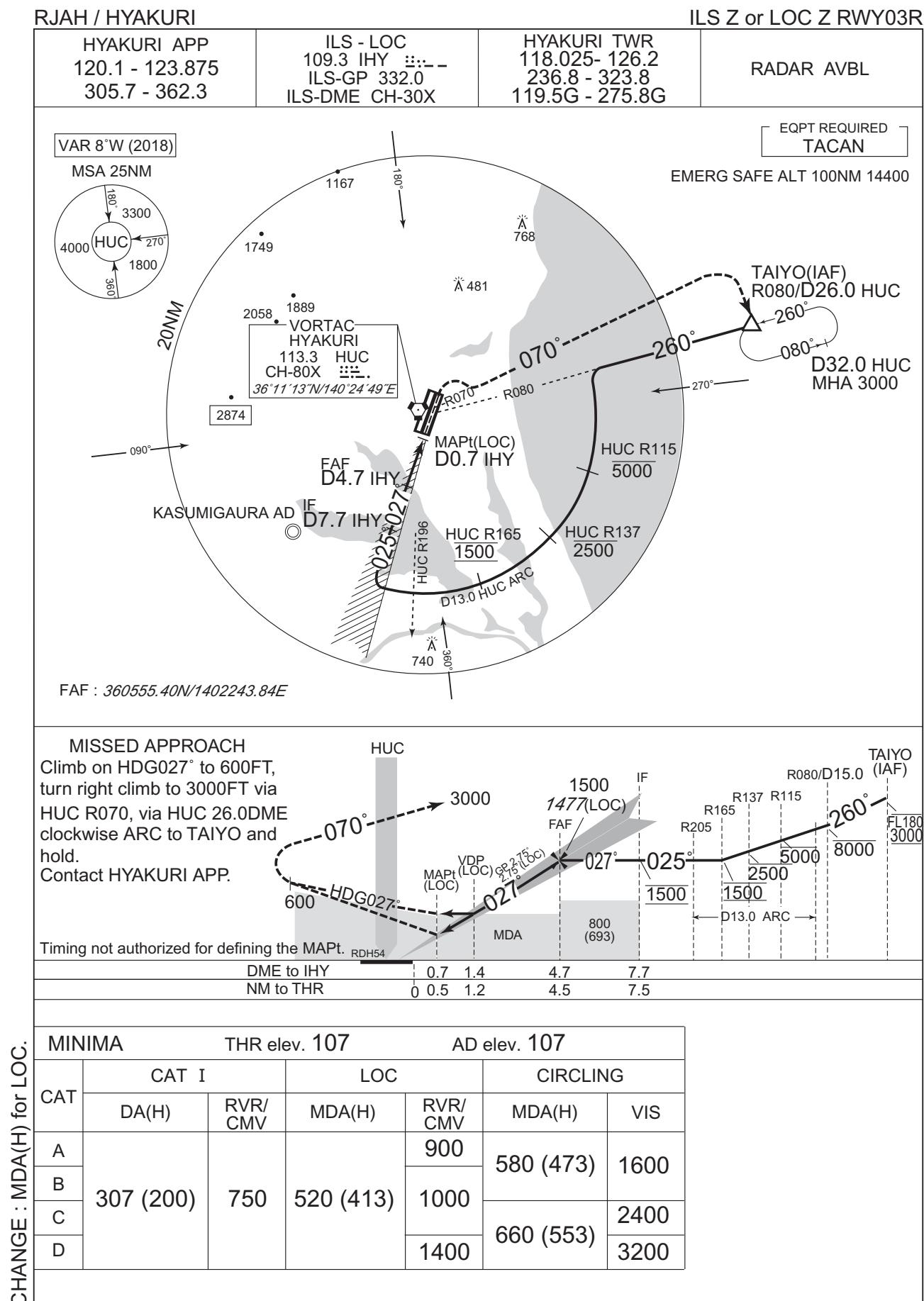
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	TATSU	-	-	-7.8	-	-	-	-	-	RNAV1
002	TF	YAMAD	-	221 (213.7)	-7.8	8.2	-	-7000	-	-	RNAV1
003	TF	NAKAH	-	221 (213.6)	-7.8	8.9	-	+4000	-	-	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates
TATSU	364021.7N/1403436.4E
YAMAD	363334.9N/1402858.8E
NAKAH	362609.9N/1402250.8E

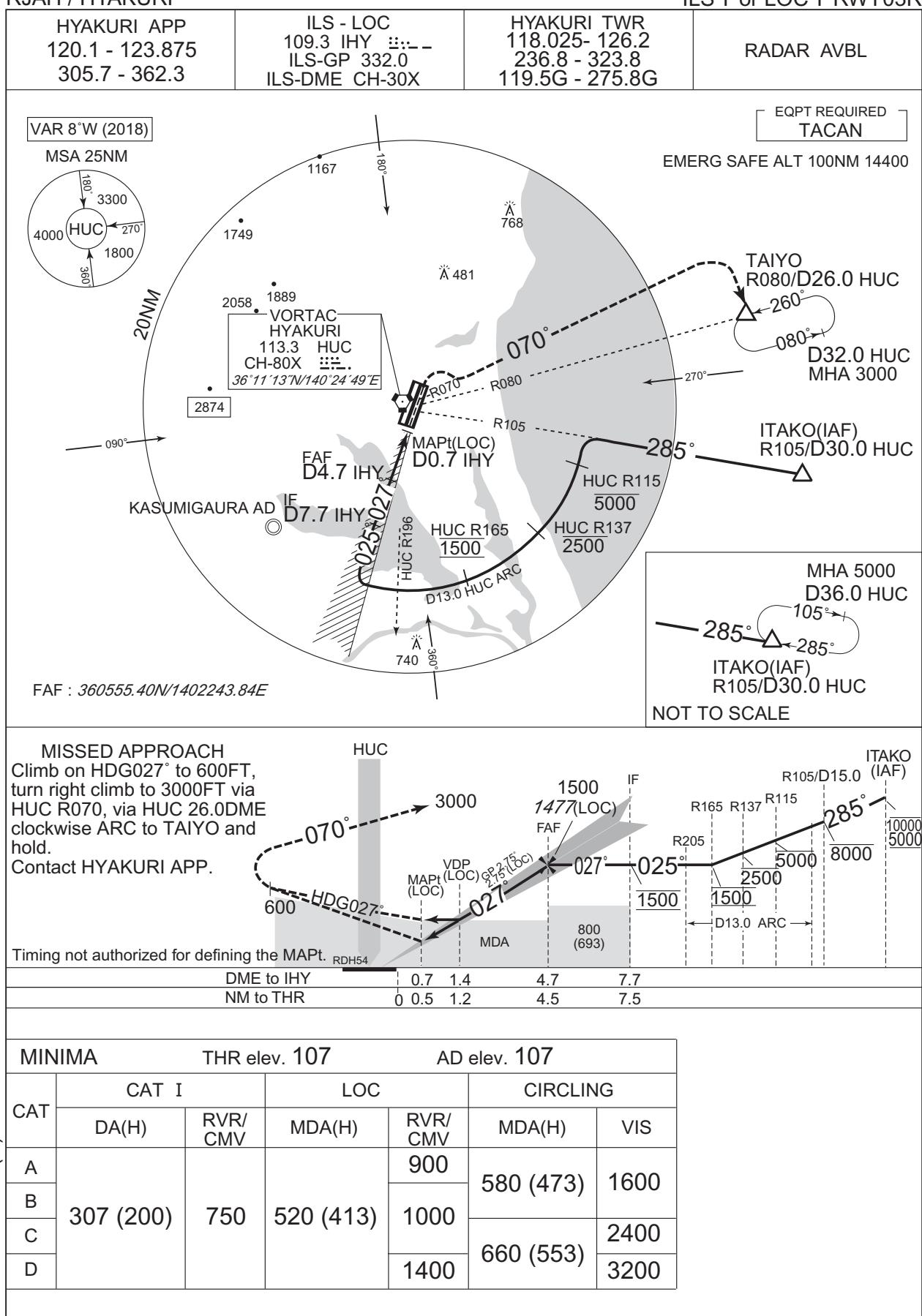
CHANGE : Waypoint Coordinates added.

INSTRUMENT APPROACH CHART

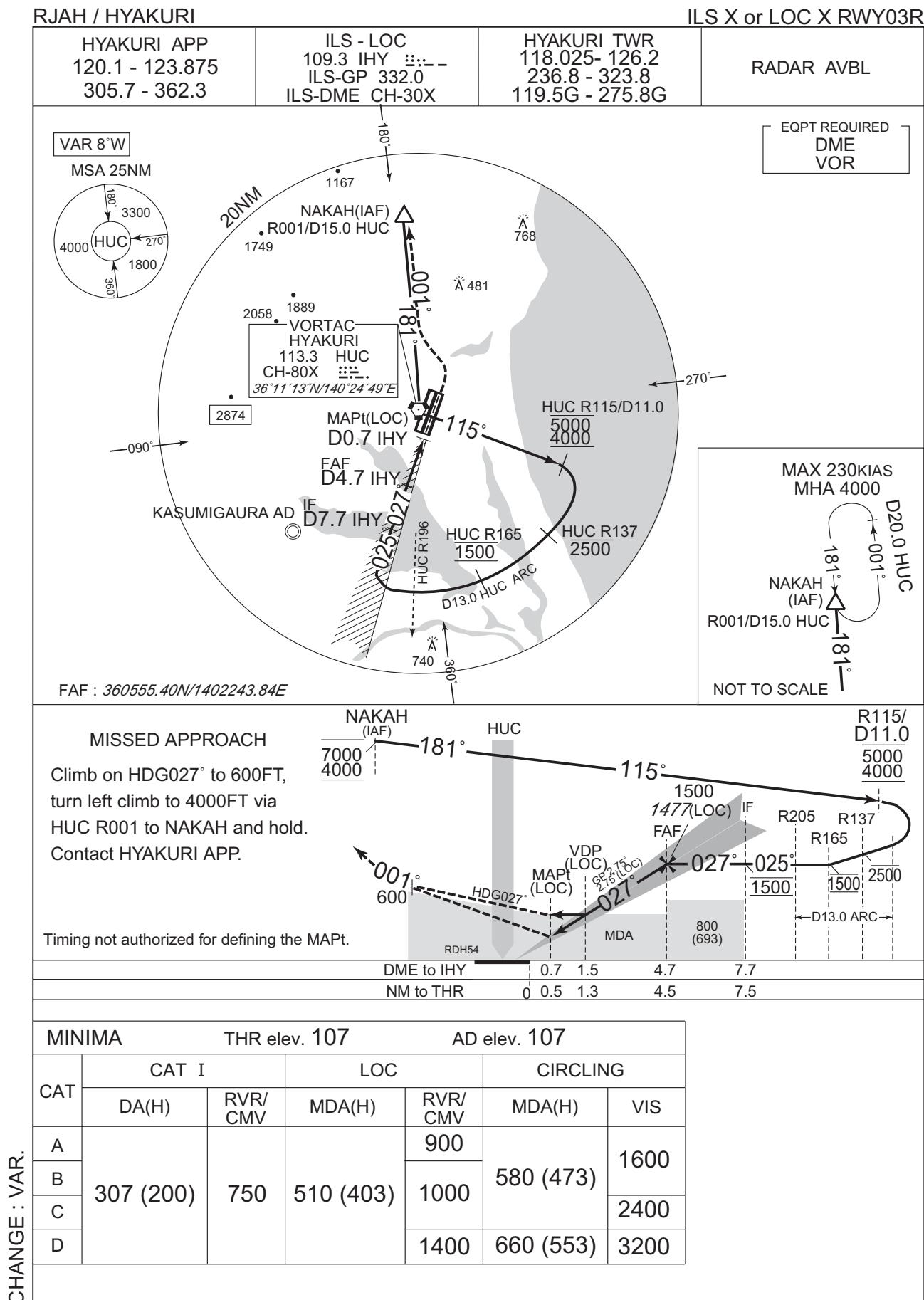


INSTRUMENT APPROACH CHART

RJAH / HYAKURI

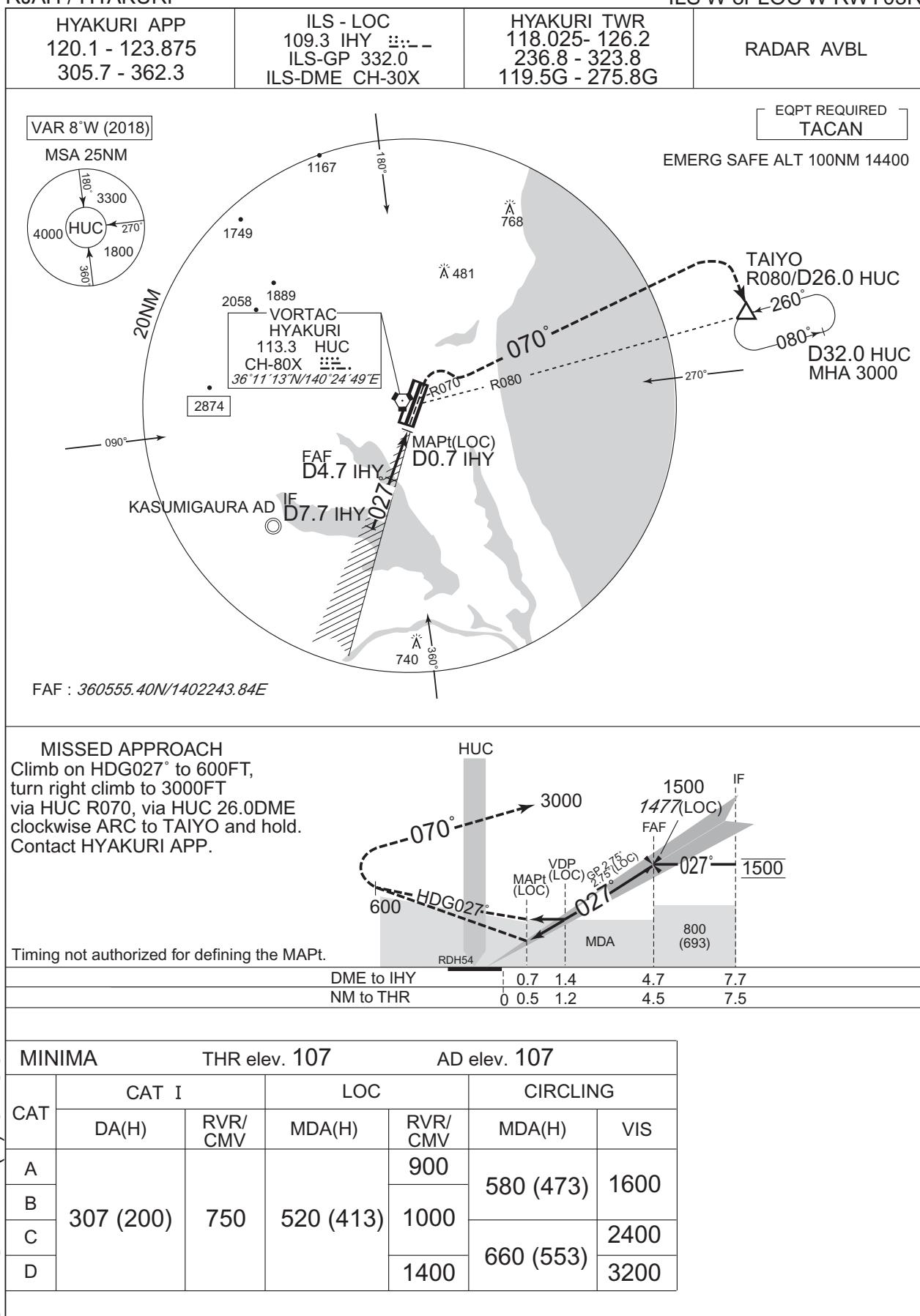


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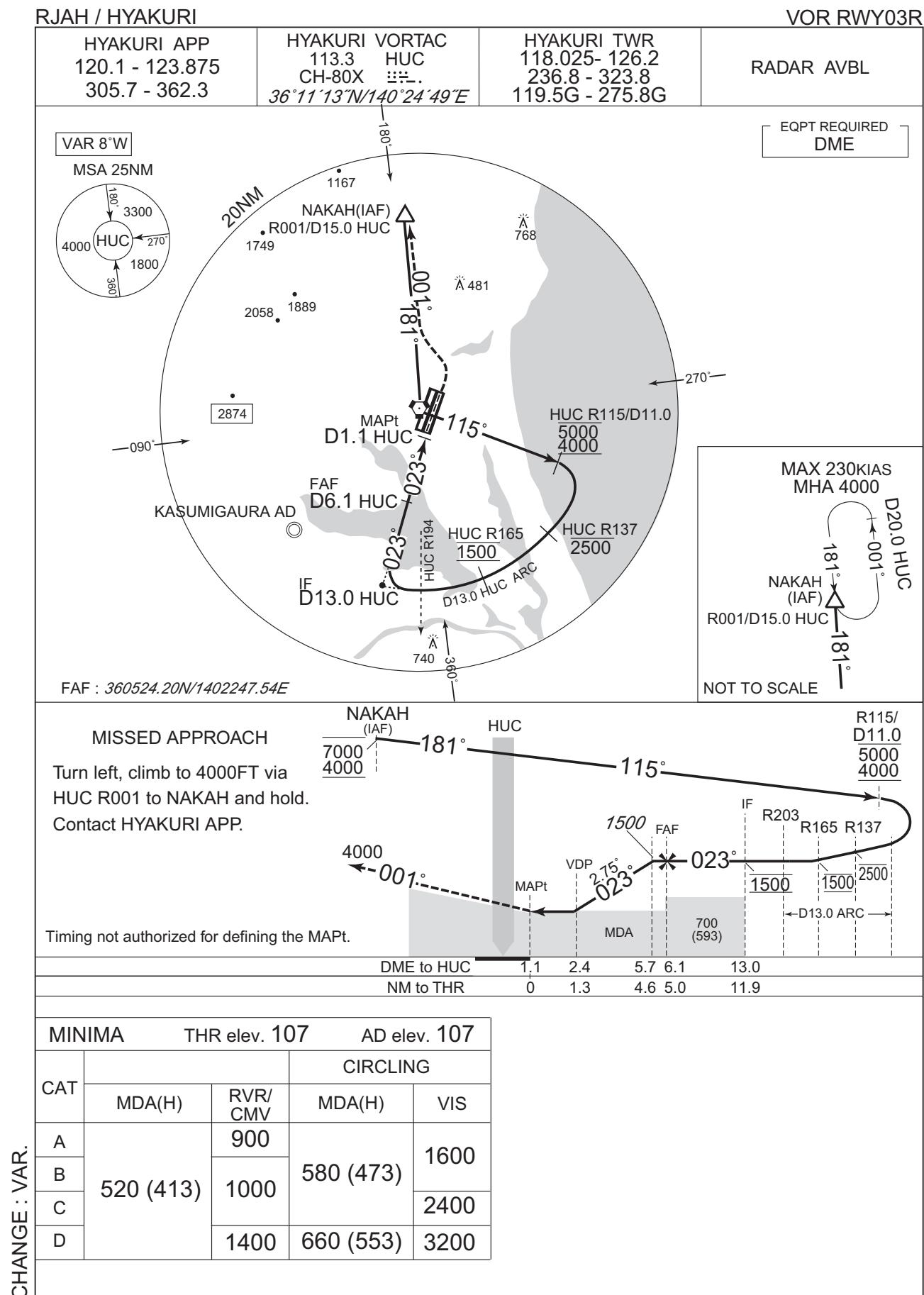


INSTRUMENT APPROACH CHART

RJAH / HYAKURI



INSTRUMENT APPROACH CHART

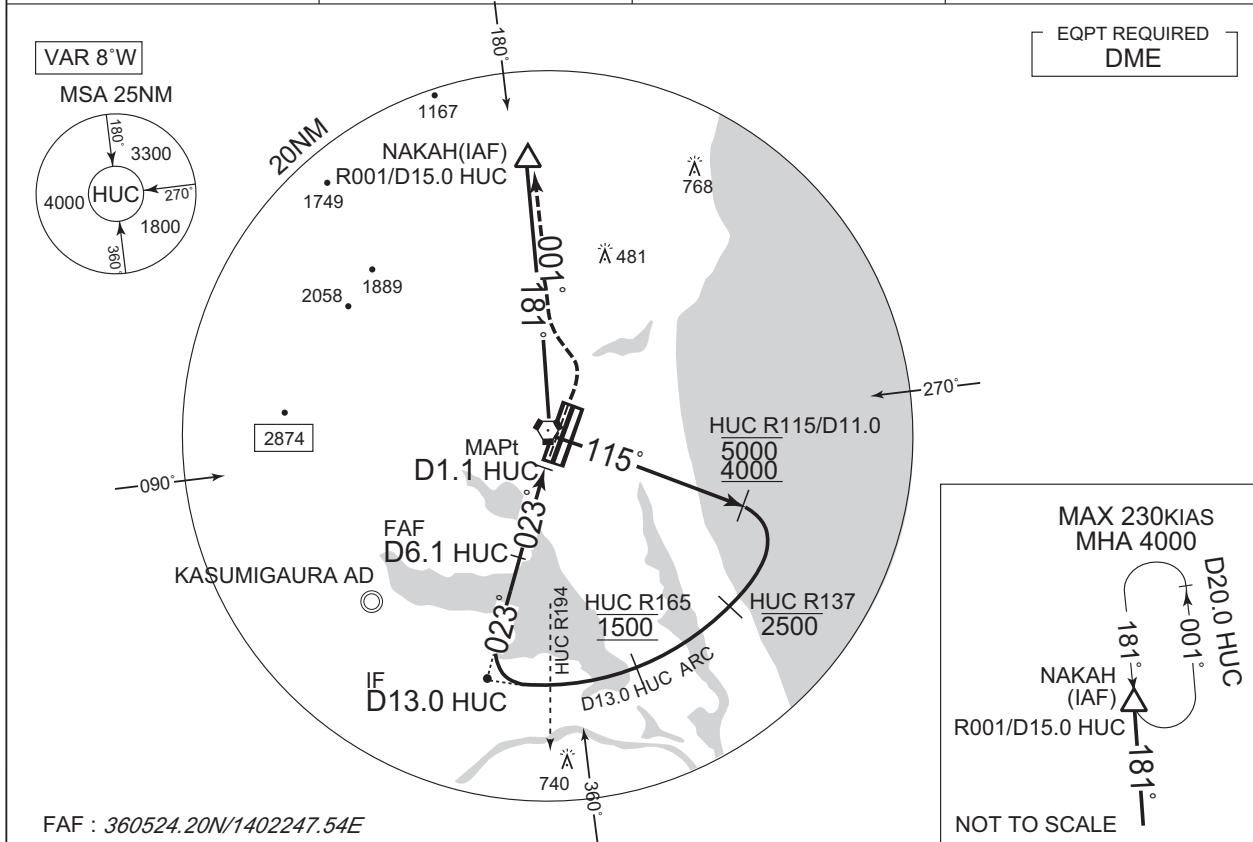


INSTRUMENT APPROACH CHART

RJAH / HYAKURI

VOR RWY03L

HYAKURI APP 120.1 - 123.875 305.7 - 362.3	HYAKURI VORTAC 113.3 HUC CH-80X 113.3 36°11'13"N/140°24'49"E	HYAKURI TWR 118.025- 126.2 236.8 - 323.8 119.5G - 275.8G	RADAR AVBL
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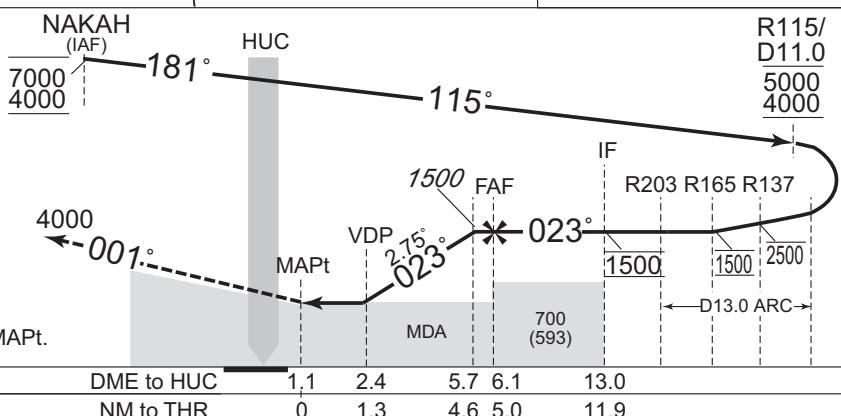


EEA : 360524 20N/140224Z 54E

MISSED APPROACH

Turn left, climb to 4000FT via HUC R001 to NAKAH and hold.

Timing not authorized for defining the MAPt.



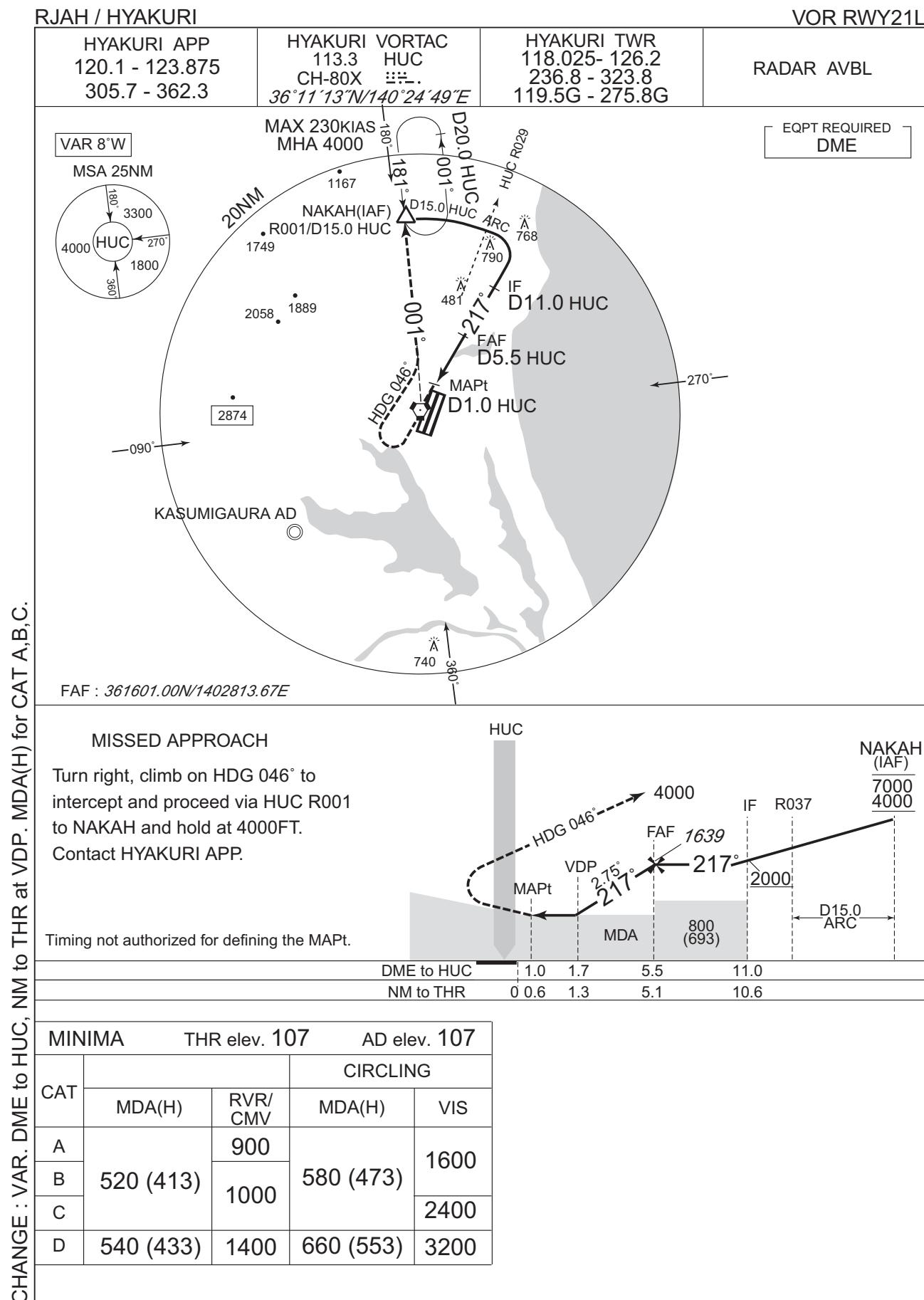
DME to HUC 1.1 2.4 5.7 6.1 13.0
NM to THR 0 1.3 4.6 5.0 11.9

MINIMA		THR elev. 107	AD elev. 107	
CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	520 (413)	1200	580 (473)	1600
B		1300		2400
C		1400		3200
D		1600	660 (553)	

Civil Aviation Bureau, Japan (EFF:10 JUL 2025)

10/7/25

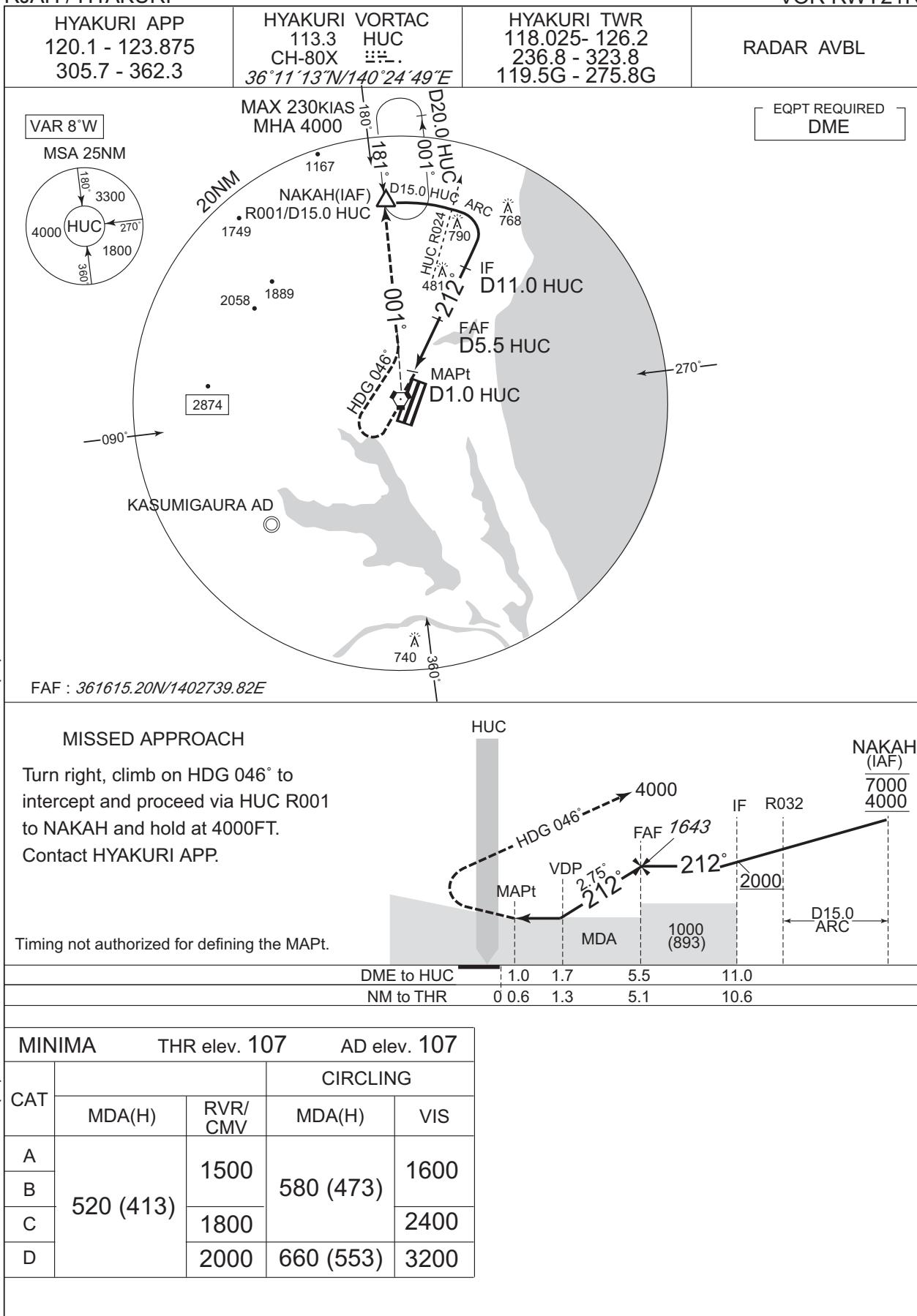
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

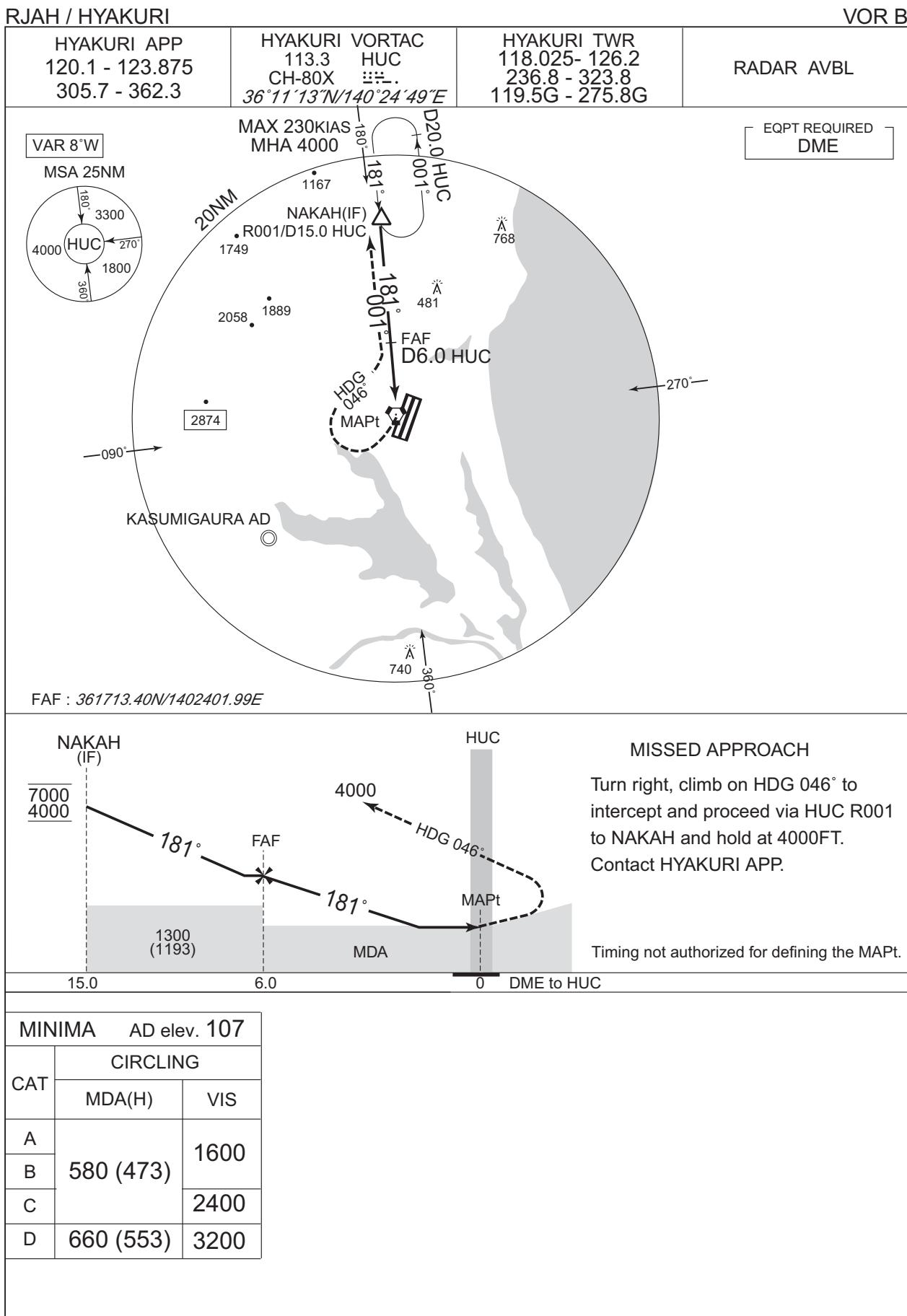
RJAH / HYAKURI

VOR RWY21R



CHANGE : VAR. OCA(H). DME to HUC, NM to THR at VDP. MDA(H) for MINIMA.

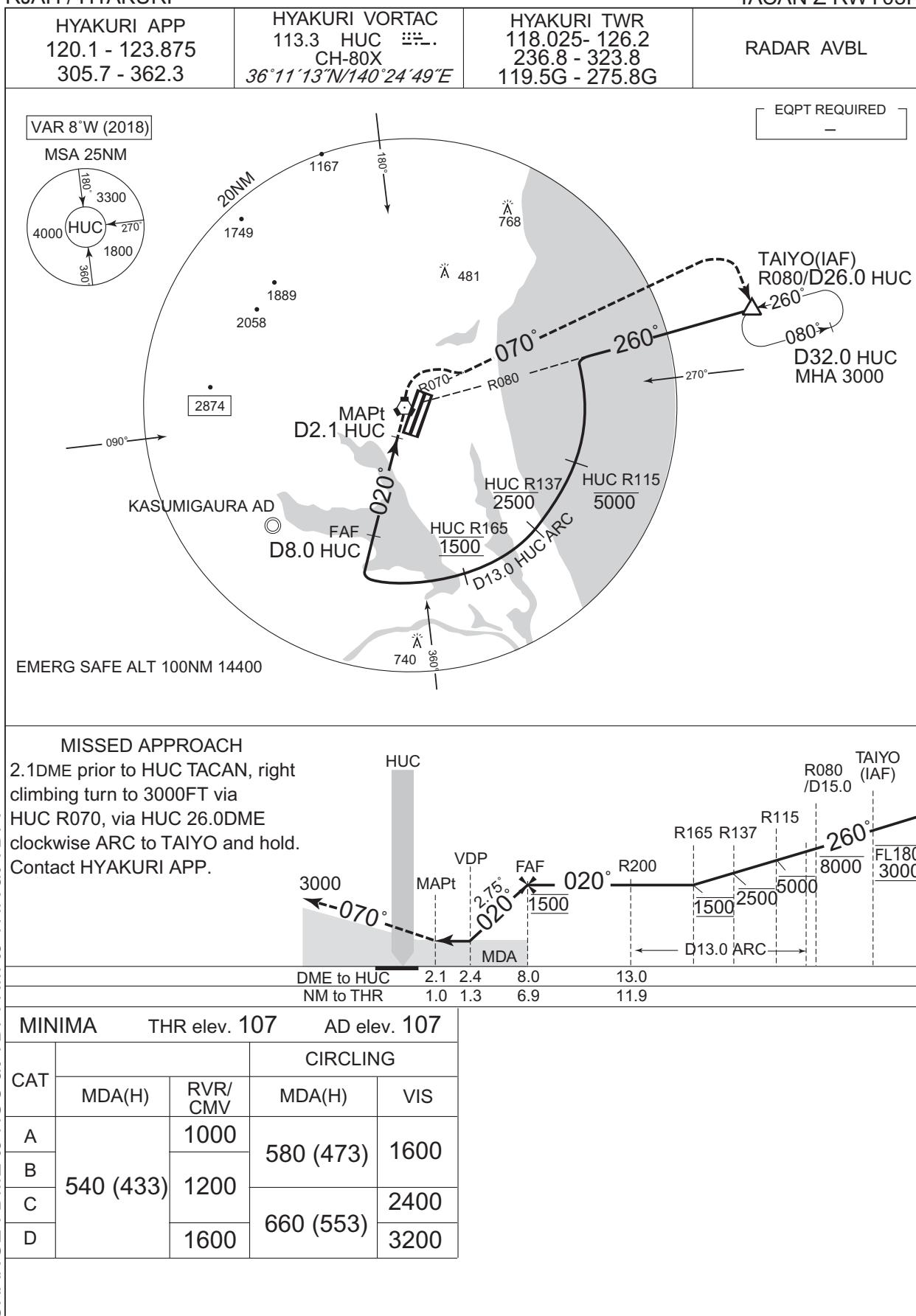
INSTRUMENT APPROACH CHART



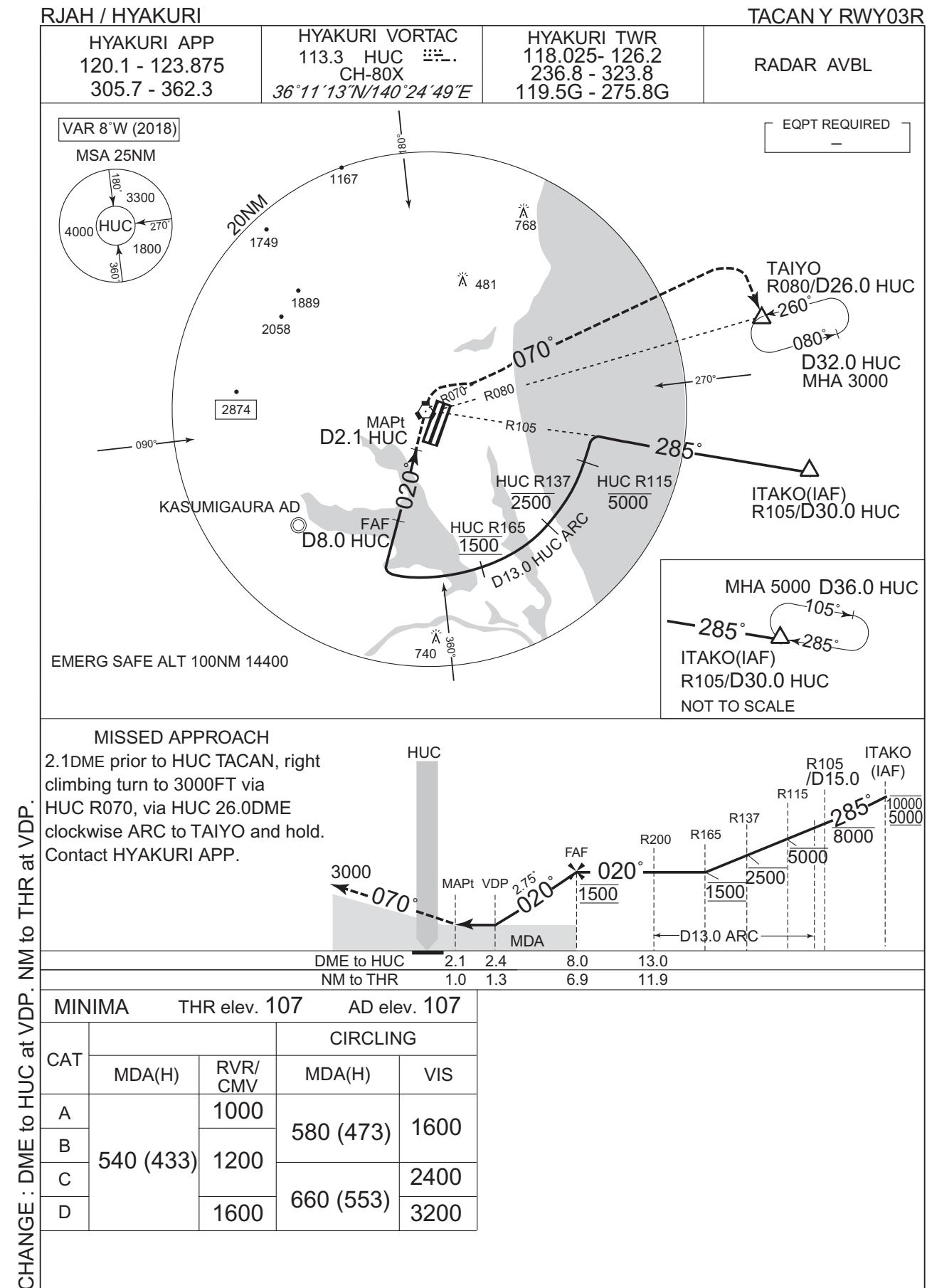
INSTRUMENT APPROACH CHART

RJAH / HYAKURI

TACAN Z RWY03R



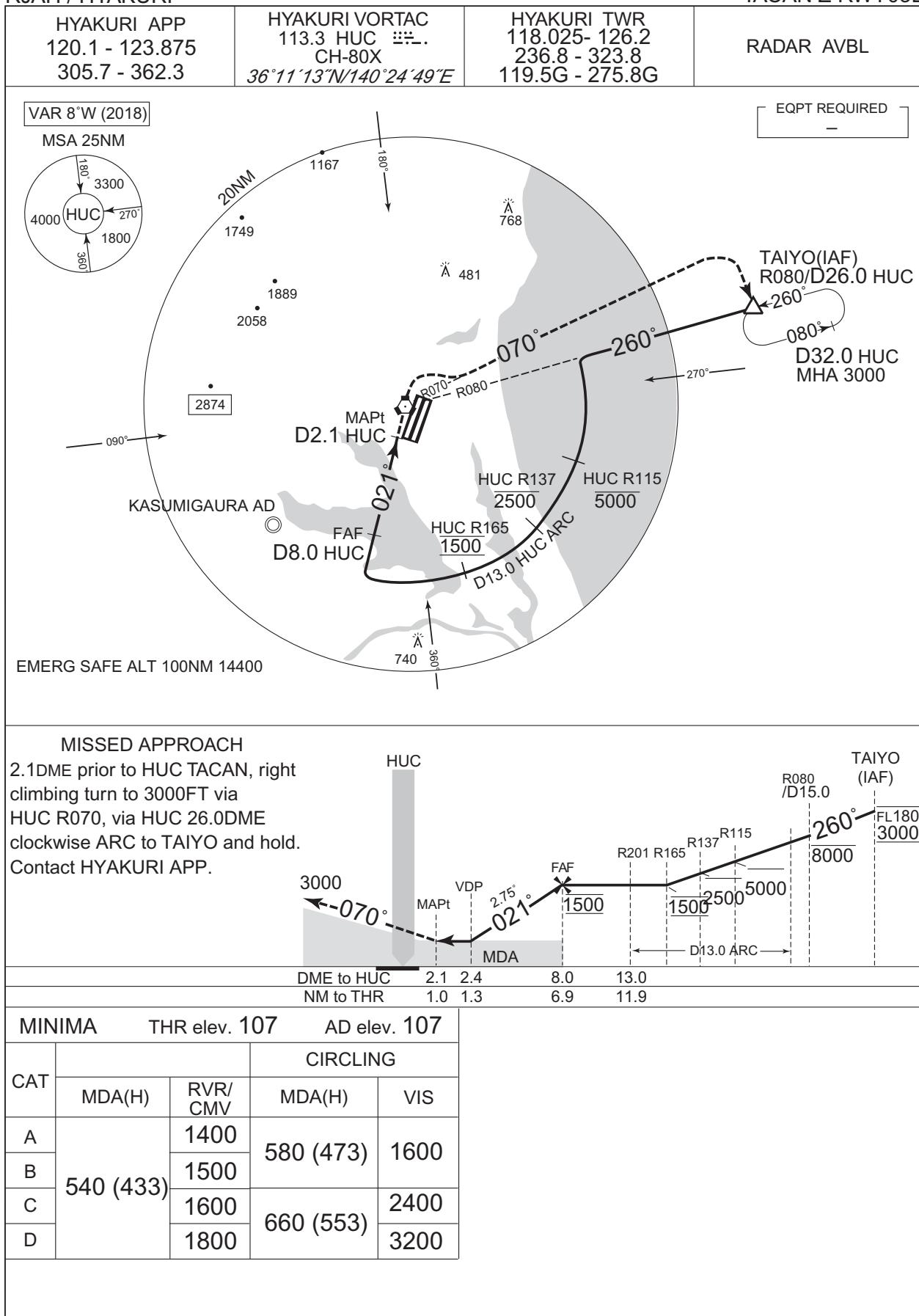
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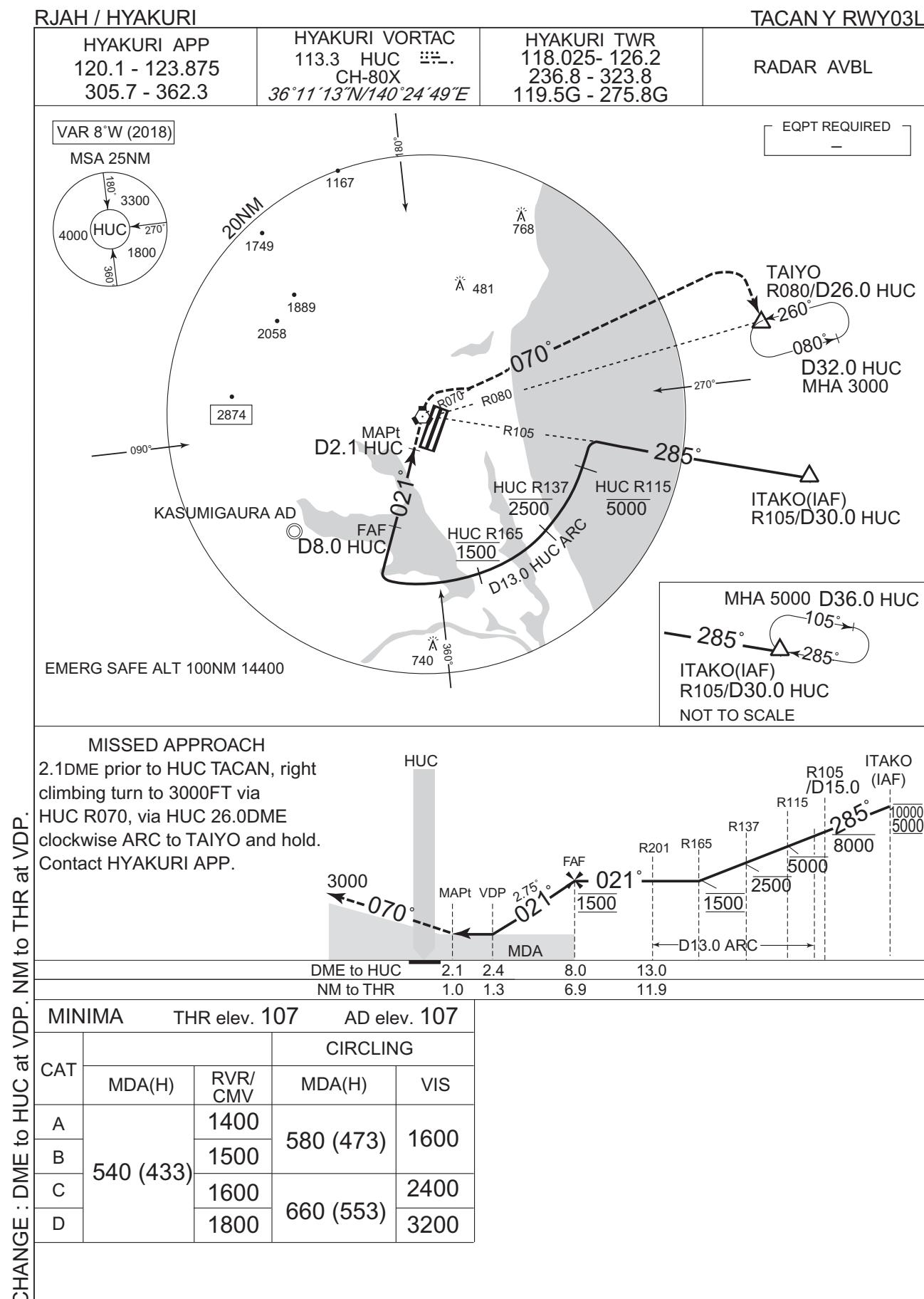
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RJAH / HYAKURI

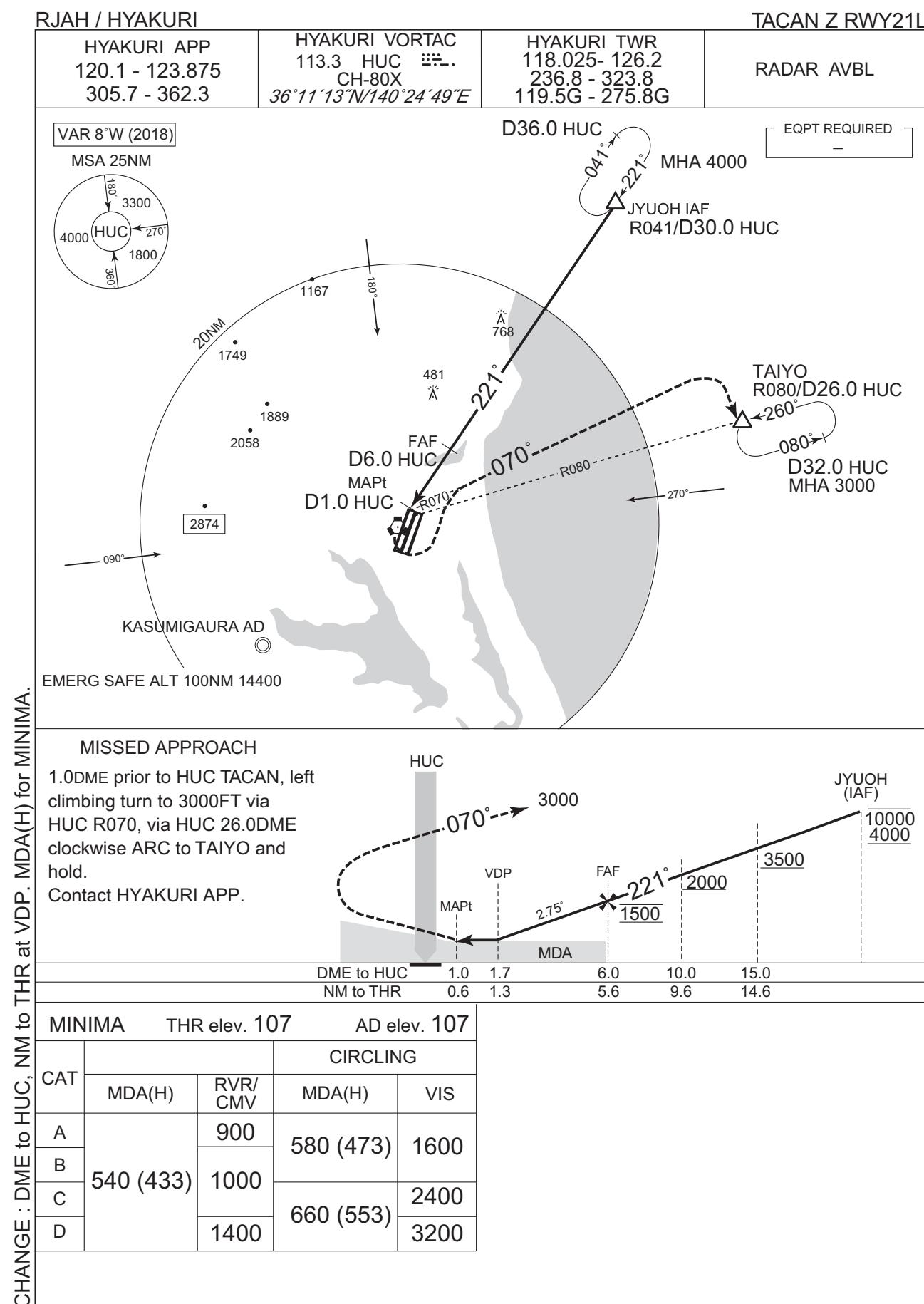
TACAN Z RWY03L



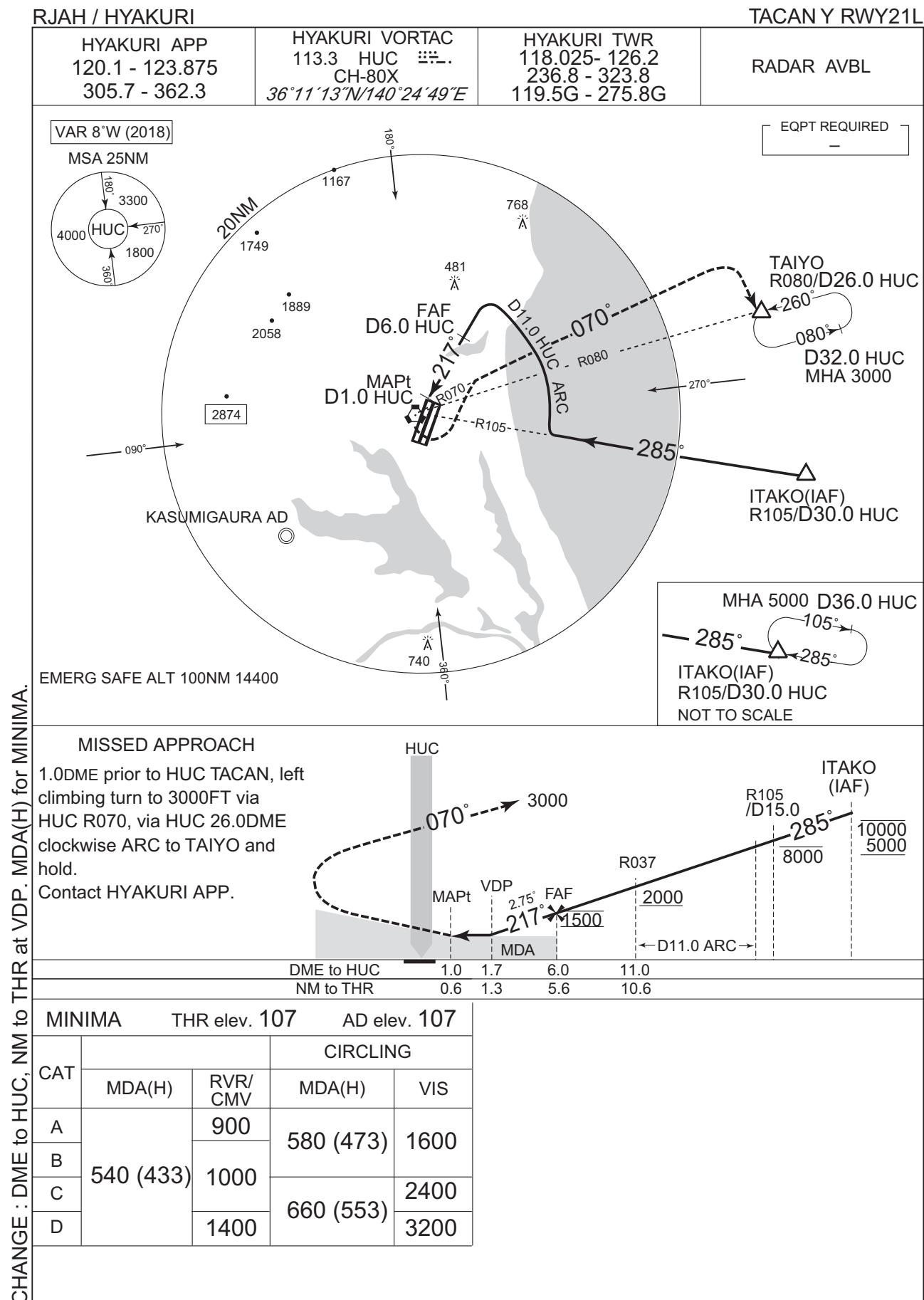
INSTRUMENT APPROACH CHART



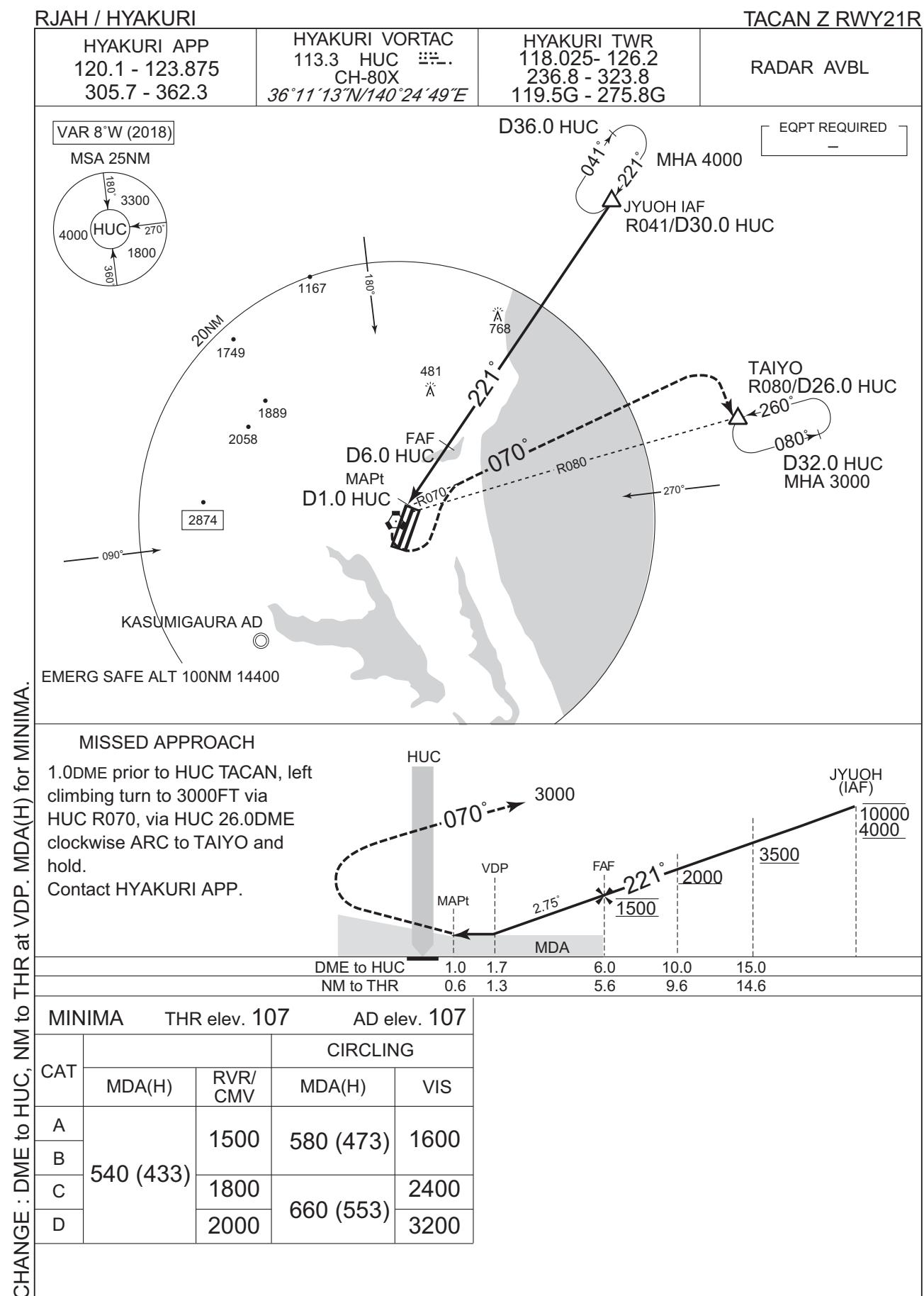
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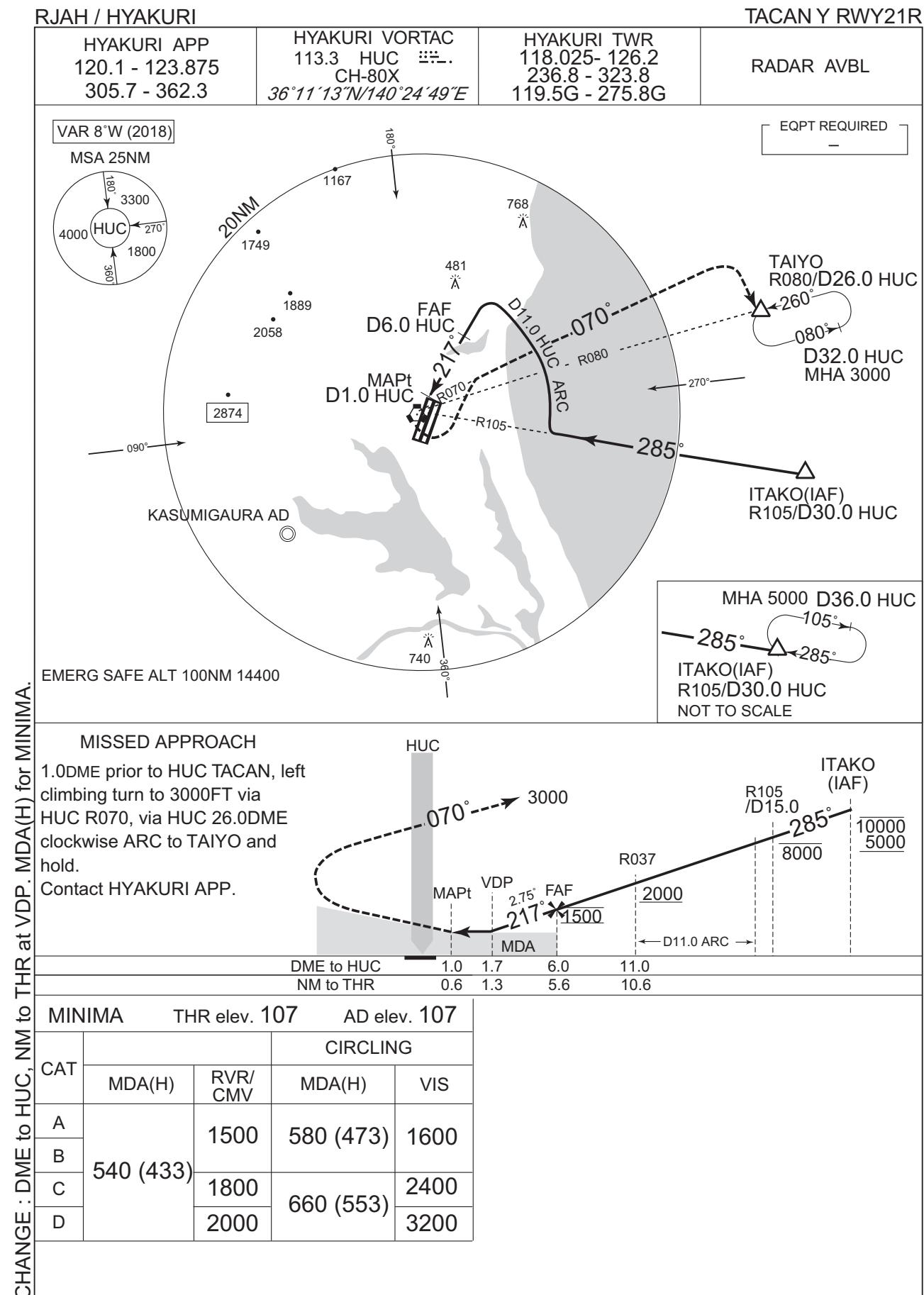
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJAH / HYAKURI

TACAN A

HYAKURI APP
120.1 - 123.875
305.7 - 362.3

HYAKURI VORTAC
113.3 HUC CH-80X
 $36^{\circ}11'13''N/140^{\circ}24'49''E$

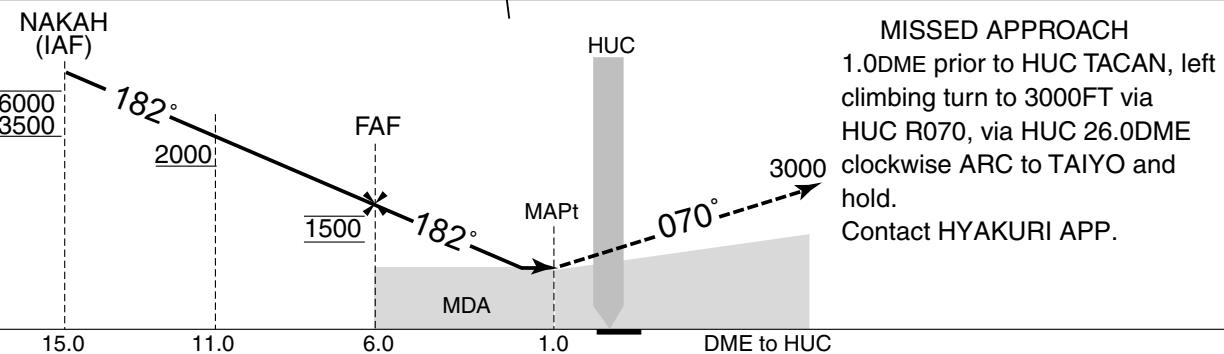
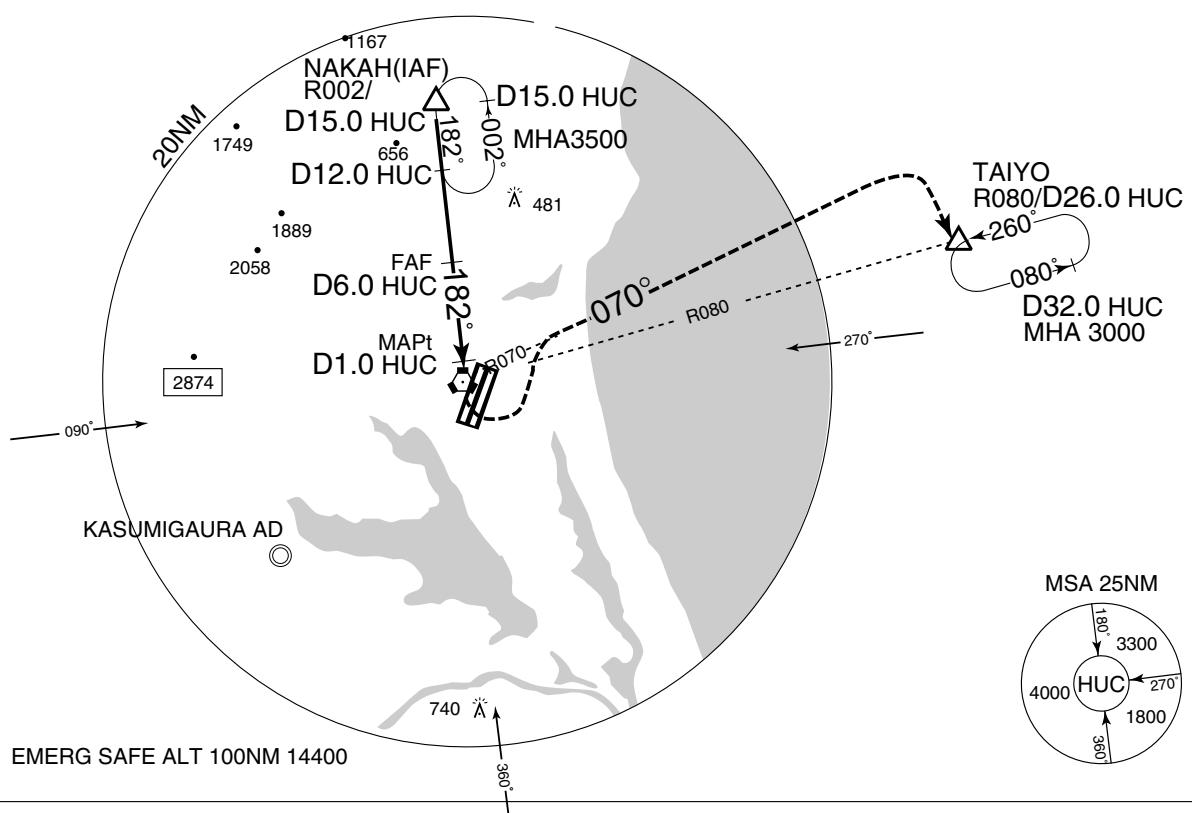
HYAKURI TWR
118.025- 126.2
236.8 - 323.8
119.5G - 275.8G

RADAR AVBL

VAR 8°W (2018)

EQPT REQUIRED

-



MINIMA		AD elev. 107
CAT	CIRCLING	
	MDA(H)	VIS
A	580 (473)	1600
B		
C	660 (553)	2400
D		3200

INSTRUMENT APPROACH CHART

RJAH / HYAKURI

RNP RWY03L

HYAKURI APP
120.1 - 123.875
305.7 - 362.3

RNP APCH

HYAKURI TWR
118.025 - 126.2
236.8 - 323.8
119.5G - 275.8G

RADAR AVBL

Baro-VNAV not authorized below -10°C

VAR 8°W

MSA 25NM

4000 ARP

ARP: 361054N / 1402453E

NAKAH (IAF/MAHF)

1286

1750

2326

1814

2878

1512

36° 20'N

36° 10'N

090°

NOT TO SCALE

NAKAH 208° 028° 1MIN MHA 4000 MAX 210KIAS

140° 20'E

140° 30'E

140° 40'E

NAKAH 362609.88N (IAF/MAHF) 1402250.78E

H3L50 361105.04N 1402849.68E

TOMOE 360720.65N 1403018.30E

MEGAT 360158.50N 1402754.58E

SUMIG (IF) 360348.81N 1402138.67E

WAZKI (FAF) 360723.66N 1402314.20E

H3L51 360848.49N 1402351.96E

RW03L (MAPt) 361013.29N 1402429.73E

Contour Intervals: 2100, 1600, 1100, 600 AD elev.107

10NM

170° (162.2°T)

15.8°

270°

028°(019.8°T)/1.5

028°(019.8°T)/1.5

3.9° (162.3°T)

70°

3.8° (162.3°T)

3.8° (162.3°T)

5.4° (162.3°T)

208° (199.8°T)

5.7° (199.8°T)

WAZKI (FAF)

H3L51

TOMOE

SUMIG (IF)

MAX 200KIAS

298° (290.0T)

MEGAT

NM to Next Fix

FAF 2 MAPt

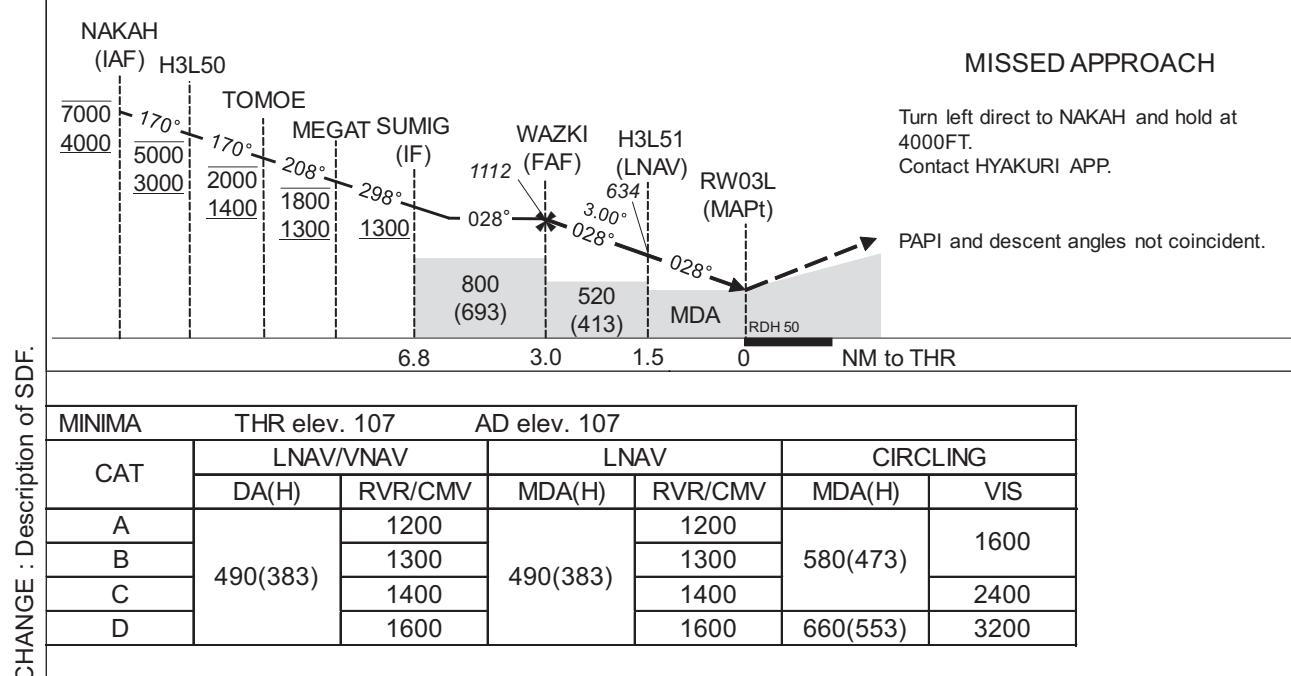
AI T (3.0°APCH Path)

1112 793

KM

1 0 1 2 3 4 5 6 7 8 9 10

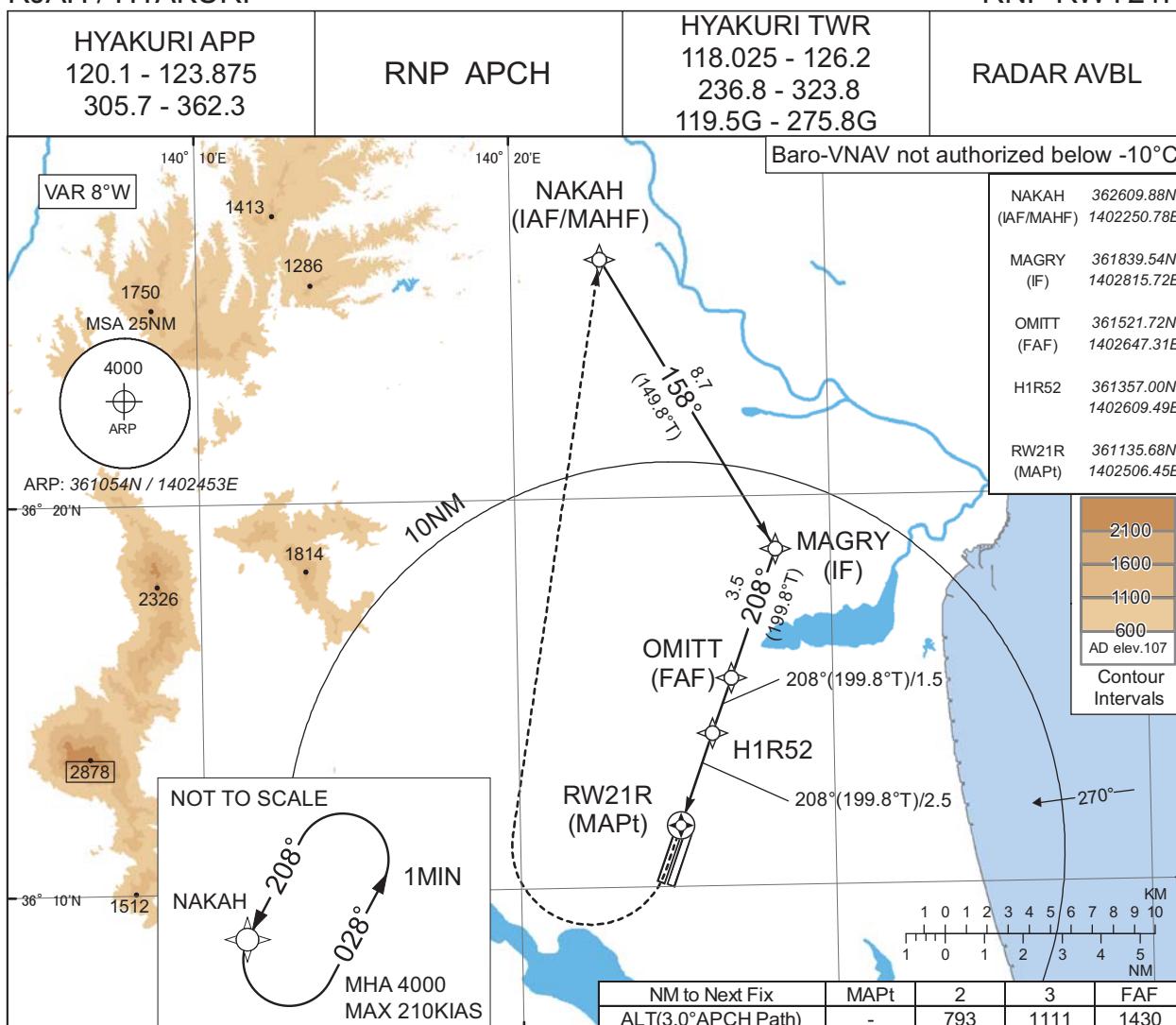
1 0 1 2 3 4 5 6 7 8 9 10 NM



INSTRUMENT APPROACH CHART

RJAH / HYAKURI

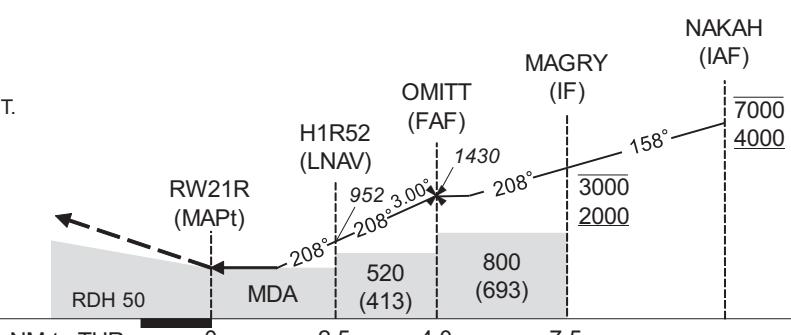
RNP RWY21R



MISSSED APPROACH

Turn right direct to NAKAH and hold at 4000FT.
Contact HYAKURI APP.

PAPI and descent angles not coincident.



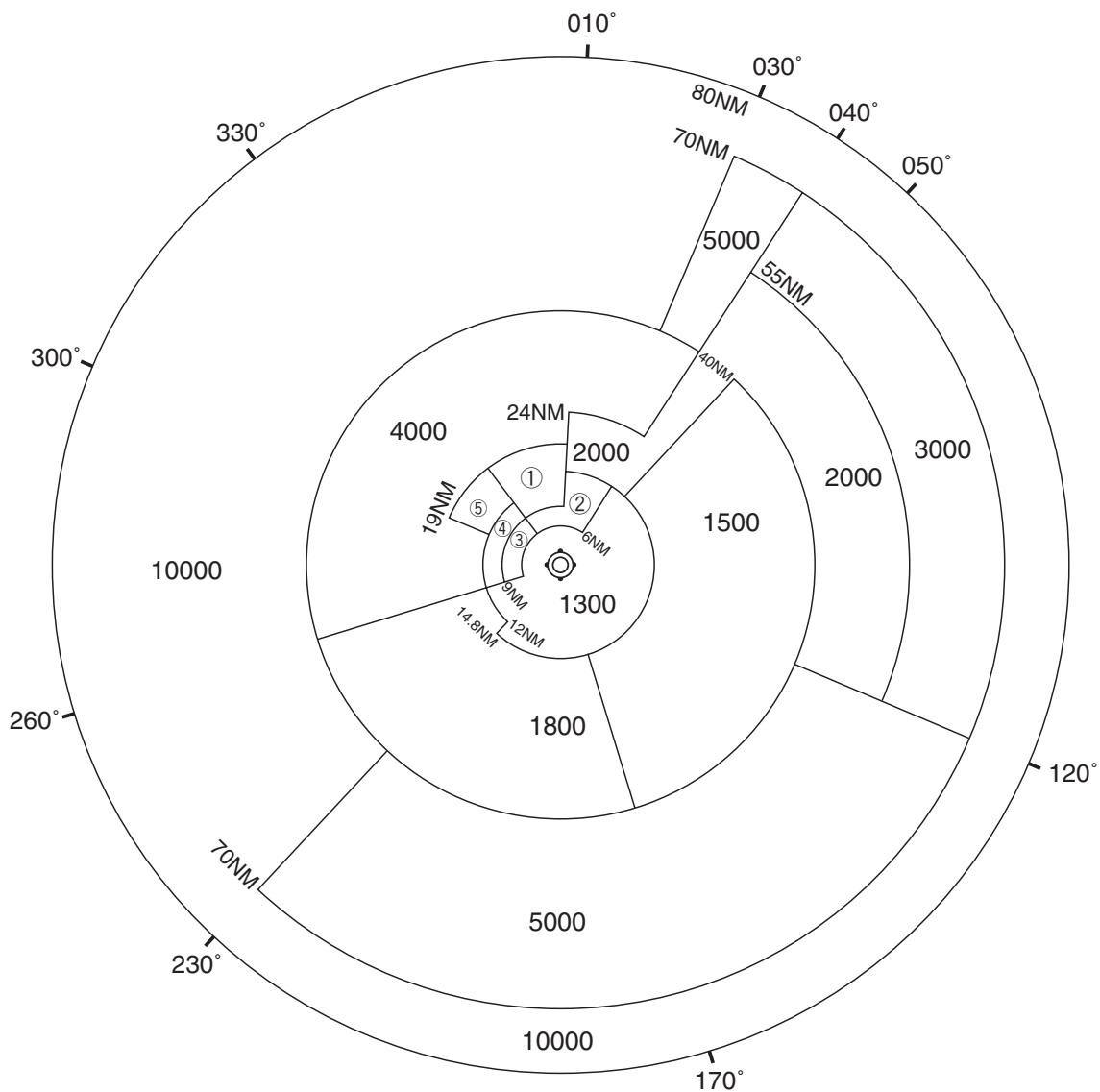
CHANGE : Description of SDF.

MINIMA		THR elev. 107		AD elev. 107		
CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A						
B	500(393)	1500	500(393)	1500	580(473)	1600
C		1800		1800		2400
D	520(413)	2000	520(413)	2000	660(553)	3200

RJAH / HYAKURI

Minimum Vectoring Altitude CHART

VAR 7°W (2010)



- ① 2500
- ② 1500
- ③ 2200
- ④ 3000
- ⑤ 3500