# **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	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**

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

### **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: PCN 54/R/B/X/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: PCN 61/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

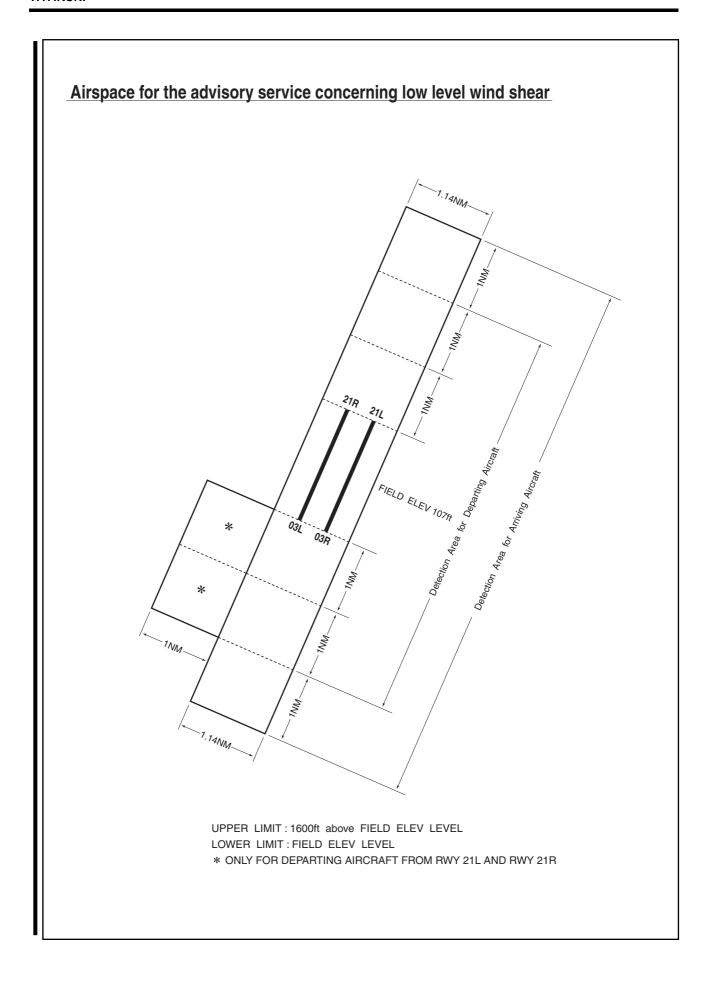
1	Use of aircraft stand ID signs, TWY guide lines and Visual docking/ parking guidance system of aircraft stands	Nil
2	RWY and TWY markings and LGT	RWY:03L/21R (Marking) RWY designation, RWY CL, RWY THR, Aiming point, TDZ, RWY side stripe, RWY turn pad CL, RWY turn pad edge (LGT) RCLL, REDL, RTHL, RENL, 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	ТОКҮО
2	Hours of service	H24(TOKYO)
	MET Office outside hours	
3	Office responsible for TAF preparation	токуо
	Periods of validity	30 Hours
4	Trend forecast	Nil
	Interval of issuance	
5	Briefing/ consultation provided	Briefing is available upon inquiry at TOKYO
6	Flight documentation	С
	Language(s) used	En
7	Charts and other information available	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> ,
	for briefing or consultation	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	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.



# **RJAH AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS**

esignations 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 TD2 of precision APP RWY
1	2	3	4	5	6
03L	019°	2700×45	PCN 50/F/A/X/T	To be issued	THR ELEV:107ft
			SW67000kg	later	
			(147700lbs)		
21R	199°	2700×45	DW89000kg		THR ELEV:107ft
			(196200lbs)		
			DTW137000kg		
			(302000lbs)		
			Asphalt-concrete		
03R	019°	2700×45	PCN 45/R/A/X/T	To be issued	THR ELEV:106.9ft
			SW38000kg	later	TDZ ELEV:107.1ft
			(83700lbs)		
21L	199°	2700×45	DW61000kg		THR ELEV:106.8ft
			(134400lbs)		TDZ ELEV:107.7ft
			DTW136000kg		
			(299800lbs)		
			Concrete		
Slope	of RWY	Strip Dimensions(M)		Remarks	
7	,	10		12	
See belo	elow figure 2820×150				
		2820×150		RWY 03L/21R 2700mx30	0m
See belo	w figure	3300×300			
		3300×300			
RWY 03	L				RWY 21R
107.0ft					107.0ft
•			0%		•
0					0700:
0m					2700m
RWY 03	R				RWY 21L
106.9ft		107.1ft 106.9ft	107.8ft	107.7ft 107.6ft	106.8ft
•	0.0074%	-0.023%	0.048% -0.01	•	-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	STW LEN Colo
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				
		R\	WY THR ID LGT 1	for RWY21F	R THR(Color: Wh	ite)		

# 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

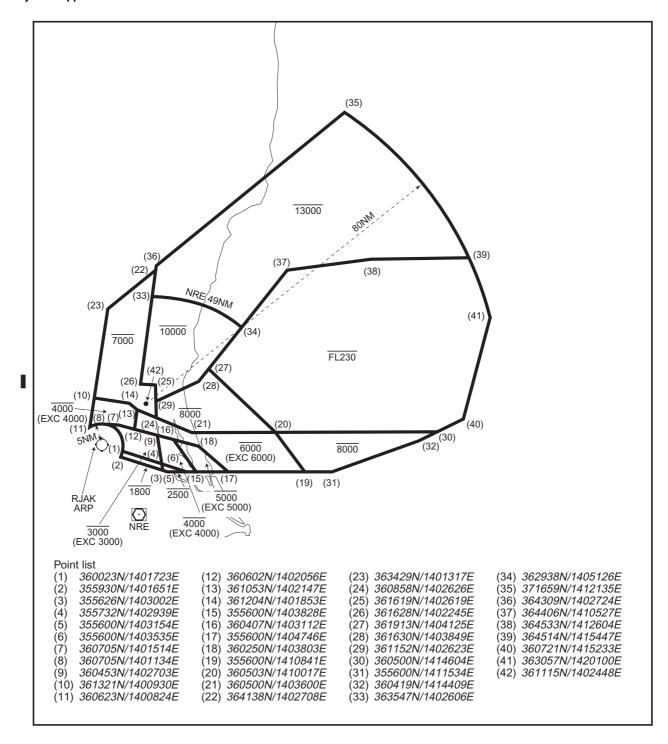
# **RJAH AD 2.16 HELICOPTER LANDING AREA**

To be issued later

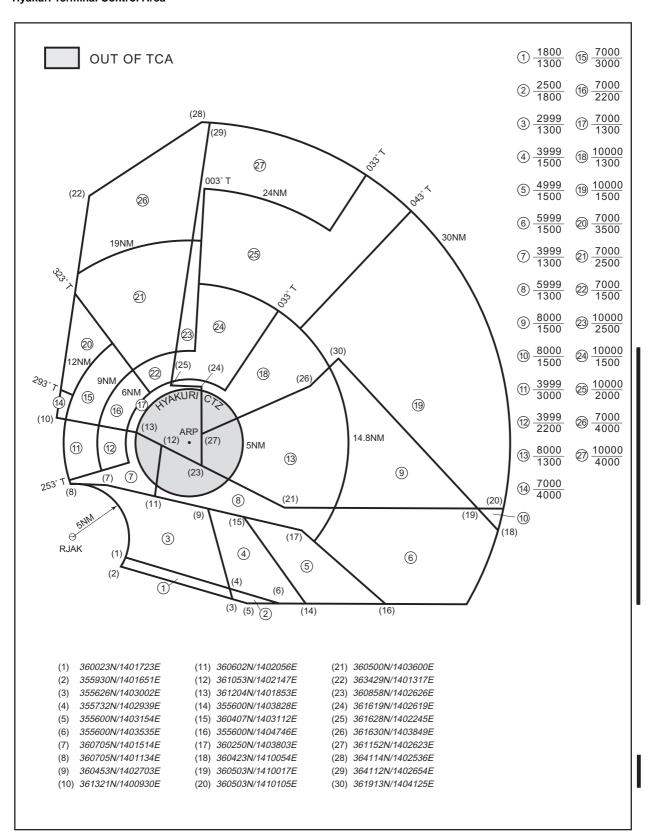
# **RJAH AD 2.17 ATS AIRSPACE**

	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	3,000 or below	D	Hyakuri Tower En	
	(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	6,000 or below (exc 6,000)			
	(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	6,000 or below			
HYAKURI ACA	SEE RJAH ATTACHED CHART		E	Hyakuri Approach Hyakuri Departure En	
HYAKURI TCA	SEE RJAH ATTACHED CHART		Е	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

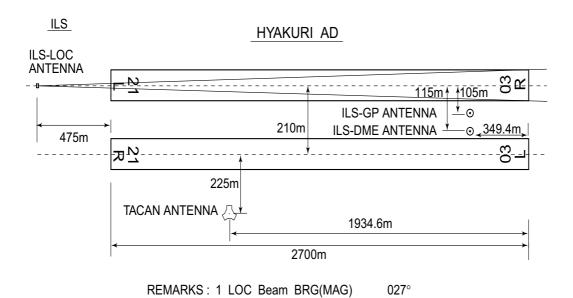


# **RJAH AD 2.18 ATS COMMUNICATION FACILITIES**

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.



2 HGT of ILS REF datum

3 GP angle

16.5m(54ft)

 $2.75^{\circ}$ 

# **RJAH AD 2.20 LOCAL TRAFFIC REGULATIONS**

1. Airı	port regulations
	Civil transient aircraft: PPR to CAB Hyakuri Airport Office(0299-54-0600) for parking
2. Tax	kiing to and from stands
	Nil
3. Pai	rking area for small aircraft(General aviation)
	Nil
4. Pai	rking area for helicopters
	Nil
5. Арі	ron - taxiing during winter conditions
	Nil
6. Tax	kiing - limitations
	Nil
7. Scł	hool and training flights - technical test flights - use of runways
	Nil
8. He	licopter traffic - limitation
	Nil
9. Re	moval 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

MINIM	IA THR ele	v. 107	AD elev. 107		
				NG	
CAT	DA(H)	RVR/ CMV	MDA(H)	VIS	
Α	A		580(473)	1600	
В	307(200)	750	000(470)	1000	
С	007 (200)	700	660(553)	2400	
D			000(333)	3200	

### PAR RWY21L

MINIM	MINIMA THR elev. 107		AD elev. 107		
			CIRCLING		
CAT	DA(H)	RVR/ CMV	MDA(H)	VIS	
Α			580(473)	1600	
В	307(200)	750	300(473)	1000	
С	007 (200)	7.50	660(553)	2400	
D			000(000)	3200	

# ASR RWY03R

MINIMA THR		ev. 107	AD elev. 107		
			CIRCLI	NG	
CAT	MDA(H)	RVR/ CMV	MDA(H)	VIS	
Α		900	580 (473)	1600	
В	520(413)	1000	300 (473)	1000	
С	320(413)	1000	660(553)	2400	
D		1400	000(333)	3200	

# ASR RWY21L

MINIM	MINIMA THR elev. 107		AD elev. 107		
			CIRCLING		
CAT	MDA(H)	RVR/ CMV	MDA(H)	VIS	
Α		900	580(473)	1600	
В	500(393)	1000	300(473)	1000	
С	000(000)	1000	660(553)	2400	
D		1400	000(000)	3200	

# ASR RWY03L

MINIM	IA THR ele	ev. 107	AD elev. 107	
				NG
CAT	MDA(H)	RVR/ CMV	MDA(H)	VIS
Α		1200	580(473)	1600
В	520(413)	1300		1000
С	320(413)	1400	660(553)	2400
D		1600	000(333)	3200

## ASR RWY21R

MINIMA THR elev. 107		ev. 107	AD elev. 107		
			CIRCLING		
CAT	MDA(H)	RVR/ CMV	MDA(H)	VIS	
Α		1500	580(473)	1600	
В	500(393)	1000	000(110)	1000	
С	MDA(H) 500(393)	1800	660(553)	2400	
D		2000	000(000)	3200	

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

	RWY	RWY ACFT REDL & RCLL* REDL or RCLL* or RCL Marking		-	NIL (DAYTIME ONLY)			
		CAI	RVR	VIS	RVR	VIS	RVR	VIS
Multi-Engine	03R		-	-	400	400	-	500
ACFT with	03L	A,B,C,D	400	400	400	400	-	500
TKOF ALTN	21R		400	400	400	400	-	500
AP FILED	21L	•	-	-	400	400	-	500
	03R							
OTHER	03L	ABCD	AVBL LDG MINIMA					
OTHER	21R	A,B,C,D			AVDL LDC	AIVIIIIIIIII		
	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っ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,管制機関に対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**

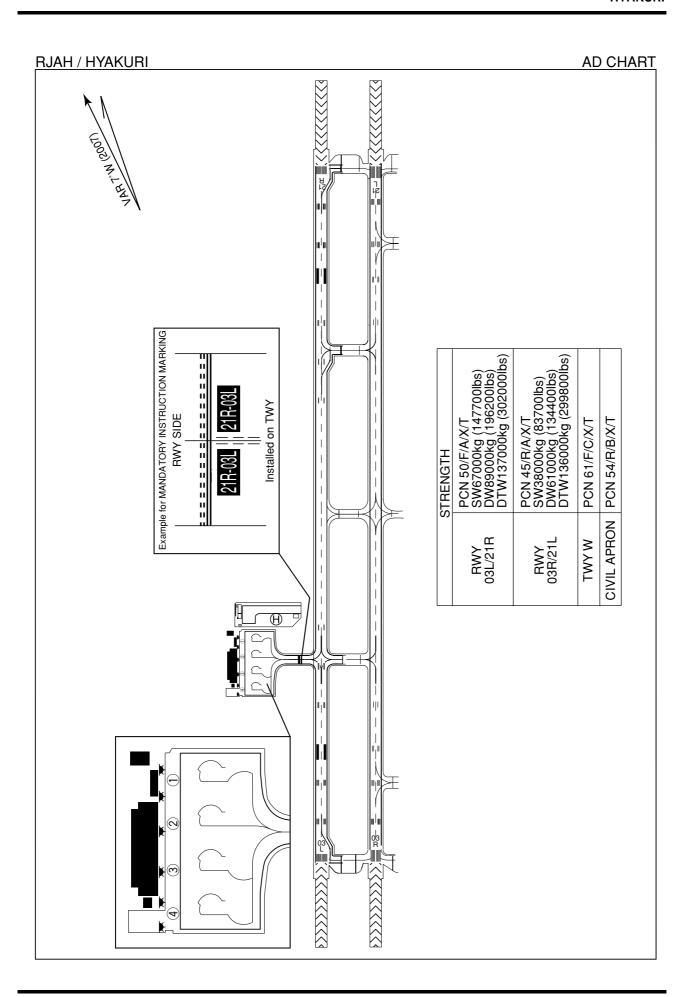
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## **RJAH AD 2.24 CHARTS RELATED TO AN AERODROME**

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)

<sup>\*:</sup> Designed in accordance with provisional standards for FLIGHT PROCEDURE DESIGN.





## 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.

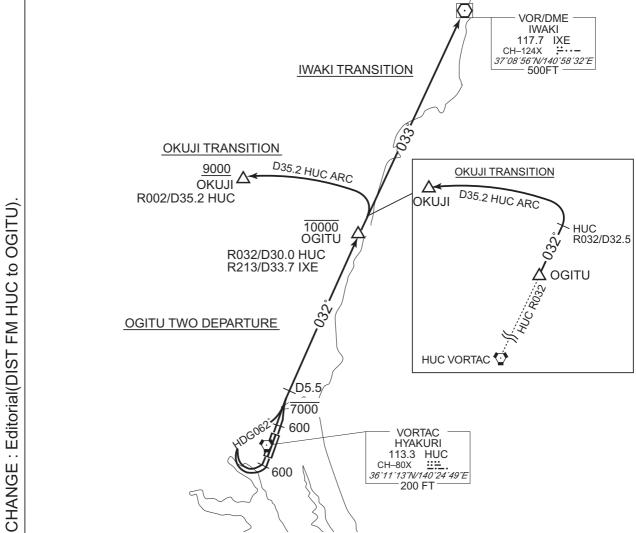
## **IWAKI TRANSITION**

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.



## RJAH / HYAKURI

SID and TRANSITION

# NAKAH FOUR DEPARTURE

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

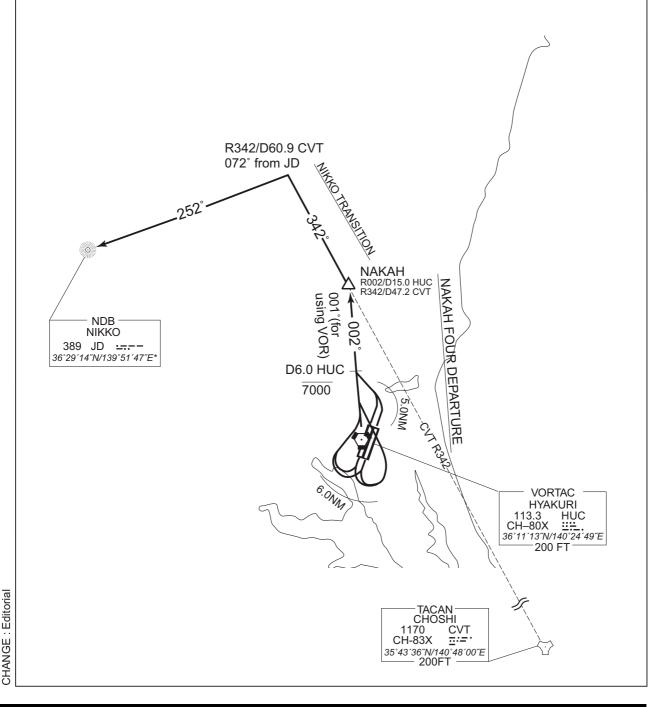
RWY 21R/21L: Turn right or left within 6.0NM....

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

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

# **NIKKO TRANSITION**

From over NAKAH, via CVT R342 to 60.9DME, via JD 072° to JD NDB.



## 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.

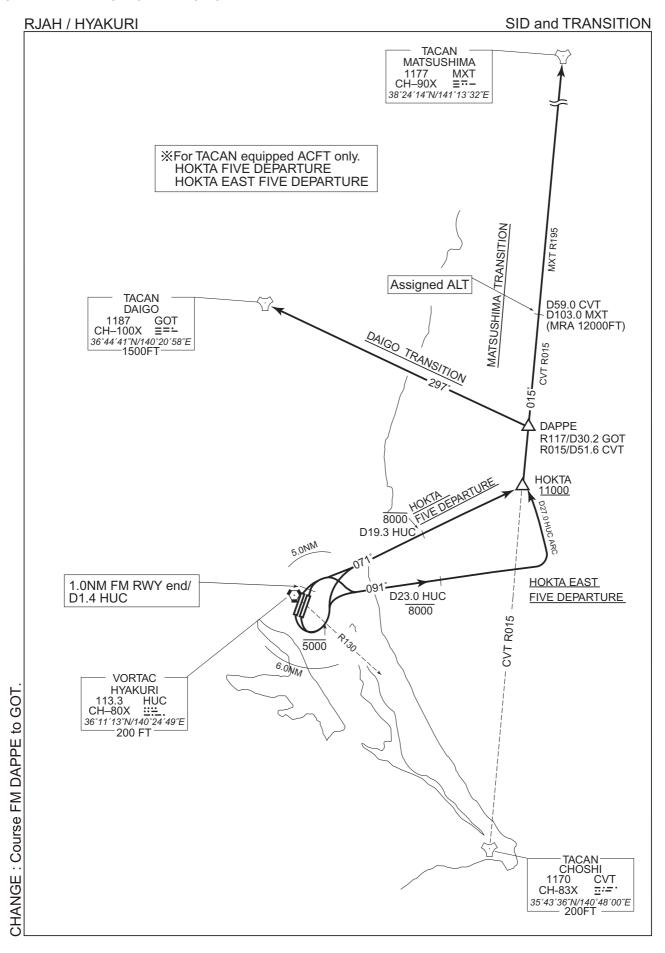
# MATSUSHIMA TRANSITION

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.



### 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.

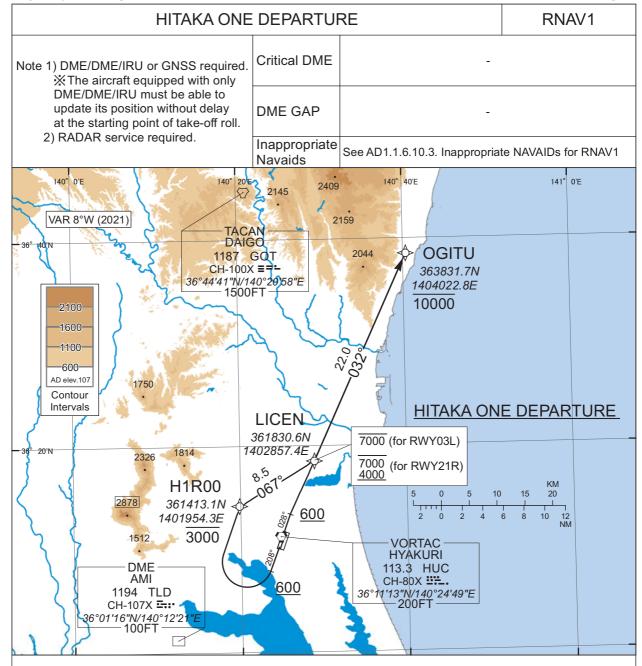
## HYAKURI TRANSITION

From over DAPPE, via CVT R015 to ANKOH, via HUC R089 to HUC VORTAC. Cross ANKOH at or above FL170.

CHANGE: ANKOH established



RJAH / HYAKURI RNAV SID



# HITAKA ONE DEPARTURE

RWY03R: (Not established)

RWY03L: Climb on HDG028° at or above 600FT, direct to LICEN at or below 7000FT,

to OGITU at or below 10000FT.

RWY21L: (Not established)

RWY21R: Climb on HDG208° at or above 600FT, turn right direct to H1R00 at or below

3000FT, to LICEN at 4000FT minimum, 7000FT maximum, to OGITU at or

below 10000FT.

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

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

RJAH / HYAKURI RNAV SID

# HITAKA ONE DEPARTURE

# RWY03L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	1	028 (019.8)	-7.8	-	-	+600	1	-	RNAV1
002	DF	LICEN	ı	1	-7.8	-	-	-7000	ı	-	RNAV1
003	TF	OGITU	1	032 (024.6)	-7.8	22.0	-	-10000	-	-	RNAV1

# RWY21R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	1	208 (199.8)	-7.8	-	-	+600	1	-	RNAV1
002	DF	H1R00	1	-	-7.8	-	R	-3000	-	-	RNAV1
003	TF	LICEN	1	067 (059.5)	-7.8	8.5	-	-7000 +4000	-	-	RNAV1
004	TF	OGITU	-	032 (024.6)	-7.8	22.0	-	-10000	-	-	RNAV1

CHANGE: New PROC.

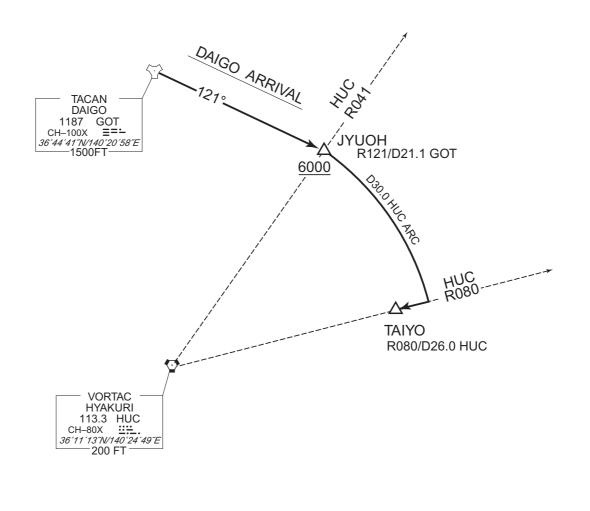
## STANDARD ARRIVAL CHART -INSTRUMENT

RJAH / HYAKURI STAR

# DAIGO ARRIVAL

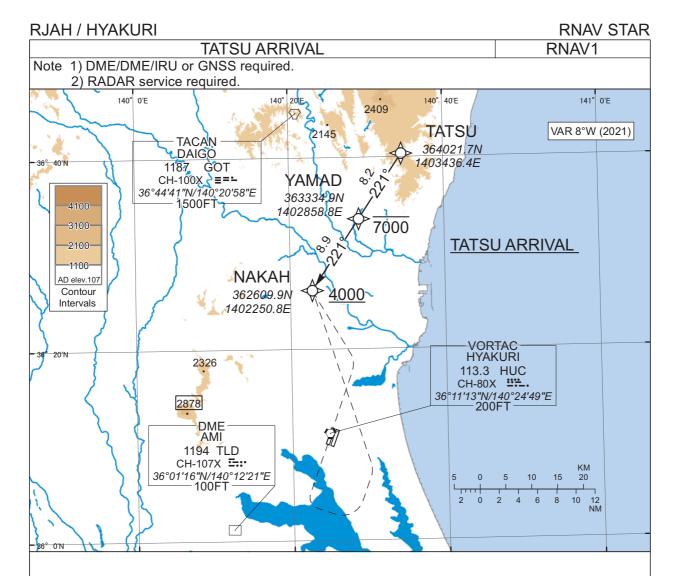
From over GOT TACAN, proceed via GOT R121 to JYUOH, turn right via HUC 30.0DME clockwise ARC to intercept and proceed via HUC R080 to TAIYO.

Cross JYUOH at or above 6000FT.



CHANGE: Course, DIST FM GOT to JYUOH

#### STANDARD ARRIVAL CHART -INSTRUMENT



## TATSU ARRIVAL

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

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

