

RJAH / HYAKURI

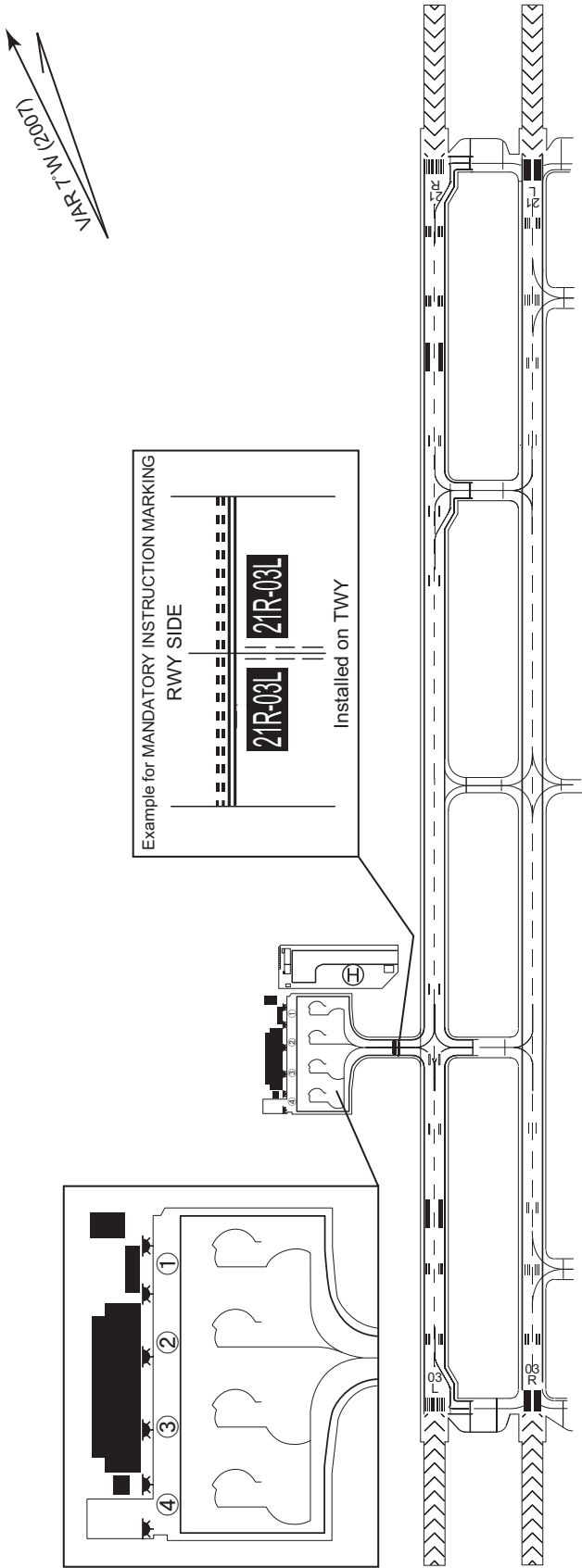
AD CHART



RJAH / HYAKURI

AD CHART

CHANGE : Description of strength of pavement.



STRENGTH	
RWY 03L/21R	PCR 628/F/A/X/T
	SW67000kg (147700lbs)
	DW89000kg (196200lbs)
	DTW137000kg (302000lbs)
RWY 03R/21L	PCR 691/R/A/W/T
	SW38000kg (83700lbs)
	DW61000kg (134400lbs)
	DTW136000kg (299800lbs)
TWY W	PCR 825/F/C/X/T
CIVIL APRON	PCR 747/R/C/X/T

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 : Editorial(DIST FM HUC to OGITU).



## STANDARD DEPARTURE CHART - INSTRUMENT

RJAHH / 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(JD) 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.

CHANGE: ANKOH established

STANDARD DEPARTURE CHART - INSTRUMENT

RJAH / HYAKURI

SID and TRANSITION

※For TACAN equipped ACFT only.  
DAPPE ONE DEPARTURE

1.0NM FM RWY end/  
D1.4 HUC

VORTAC  
HYAKURI  
113.3 HUC  
CH-80X  
36°11'13"N/140°24'49"E  
200 FT

DAPPE ONE DEPARTURE

10000  
D31.0 HUC

055°

DAPPE  
R055/D34.7 HUC  
R015/D51.6 CVT

5.0NM

5000

6.0NM

R130

HYAKURI TRANSITION

269°

CHOSHI TRANSITION

ANKOH  
FL170  
R015/D31.3 CVT  
R089/D23.2 HUC

195°

TACAN  
CHOSHI  
1170 CVT  
CH-83X  
35°43'36"N/140°48'00"E  
200FT

CHANGE: ANKOH established



## RJAH / HYAKURI

## RNAV SID

VAR 8°W

2100  
1600  
1100  
600  
AD elev.107  
Contour Intervals

1750  
2326  
1814  
2878  
1512

TACAN  
DAIGO  
1187 GOT  
CH-100X  
36°44'41"N/140°20'58"E  
1500FT

2145  
2409  
2159  
2044

OGITU  
363831.7N  
1404022.8E  
10000

LICEN  
361830.6N  
1402857.4E

H1R00  
361413.1N  
1401954.3E  
3000

DME  
AMI  
1194 TLD  
CH-107X  
36°01'16"N/140°12'21"E  
100FT

VORTAC  
HYAKURI  
113.3 HUC  
CH-80X  
36°11'13"N/140°24'49"E  
200FT

7000 (for RWY03L)  
7000 (for RWY21R)  
4000

22.0  
032°  
8.5  
067°  
029°  
208°

600  
600

5 0 5 10 15 20  
2 0 2 4 6 8 10 12  
KM  
NM

Nagasaki

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.

## STANDARD DEPARTURE CHART - INSTRUMENT

RJAHH / 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

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

RJAH / HYAKURI

RNAV STAR



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

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

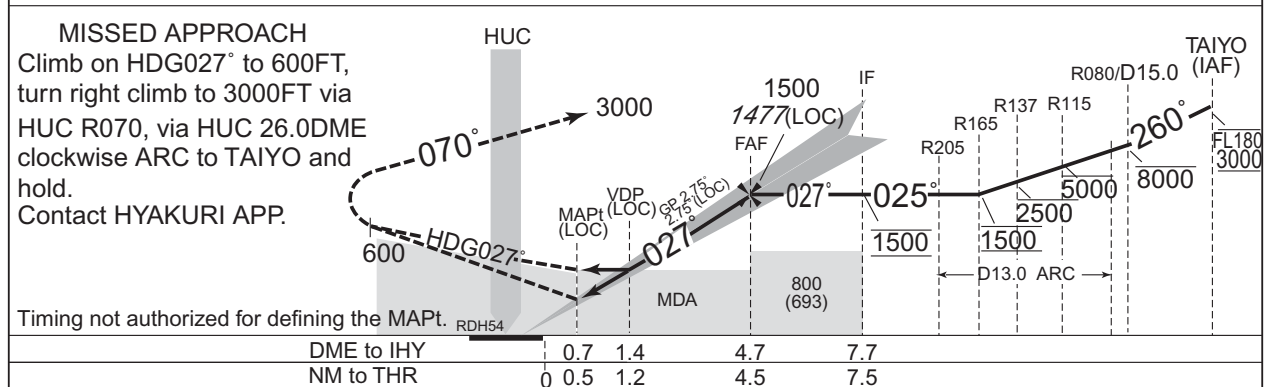
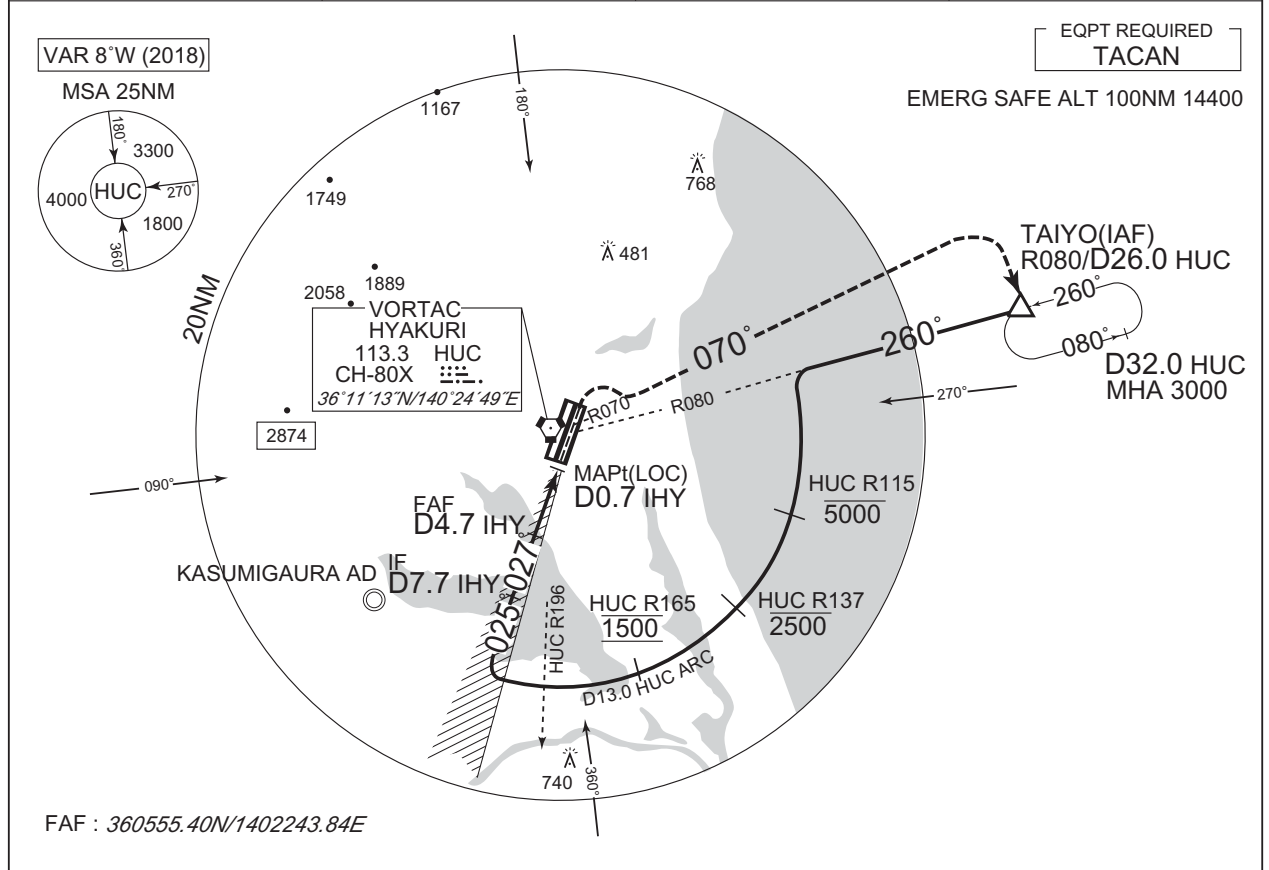
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	TATSU	-	-	-7.8	-	-	-	-	-	RNAV1
002	TF	YAMAD	-	221 (213.7)	-7.8	8.2	-	-7000	-	-	RNAV1
003	TF	NAKAH	-	221 (213.6)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

INSTRUMENT APPROACH CHART

RJAH / HYAKURI

ILS Z or LOC Z RWY03R

HYAKURI APP 120.1 - 123.875 305.7 - 362.3	ILS - LOC 109.3 IHY 3300 ILS-GP 332.0 ILS-DME CH-30X	HYAKURI TWR 118.025- 126.2 236.8 - 323.8 119.5G - 275.8G	RADAR AVBL
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DME to IHY	0.7	1.4	4.7	7.7	
NM to THR	0	0.5	1.2	4.5	7.5

CHANGE : MDA(H) for LOC.

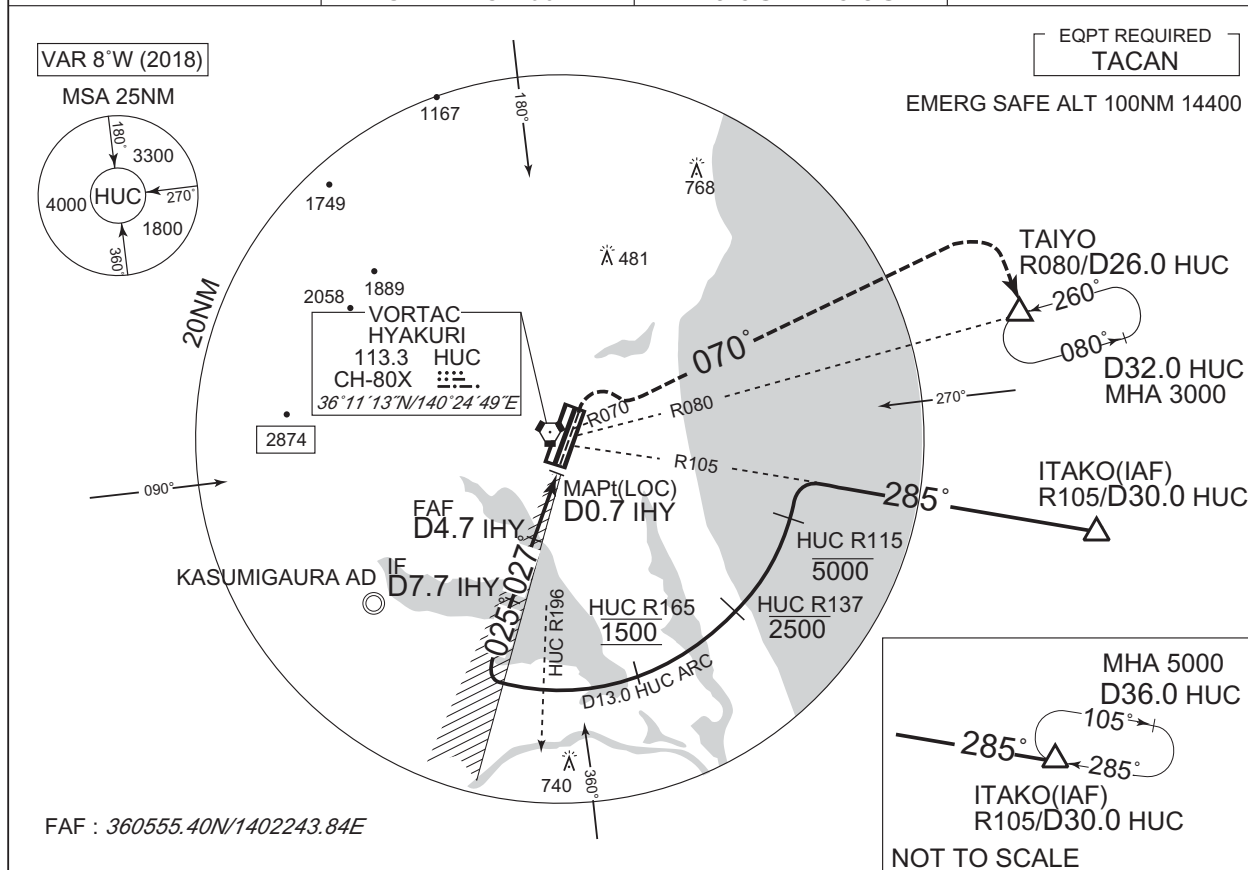
MINIMA		THR elev. 107		AD elev. 107	
CAT	CAT I	LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H) VIS
A	307 (200)	750	520 (413)	900	580 (473) 1600
B				1000	
C				1400	2400
D					3200

INSTRUMENT APPROACH CHART

RJAH / HYAKURI

ILS Y or LOC Y RWY03R

HYAKURI APP 120.1 - 123.875 305.7 - 362.3	ILS - LOC 109.3 IHY 332.0 ILS-GP 332.0 ILS-DME CH-30X	HYAKURI TWR 118.025- 126.2 236.8 - 323.8 119.5G - 275.8G	RADAR AVBL
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DME to IHY	0.7	1.4	4.7	7.7	
NM to THR	0	0.5	1.2	4.5	7.5

CHANGE : MDA(H) for LOC.

MINIMA		THR elev. 107		AD elev. 107		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	307 (200)	750	520 (413)	900	580 (473)	1600
B				1000		
C					1400	660 (553)
D						

INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART

RJAHA / HYAKURI

ILS W or LOC W RWY03R

HYAKURI APP  
120.1 - 123.875  
305.7 - 362.3ILS - LOC  
109.3 IHY 332.0  
ILS-GP 332.0  
ILS-DME CH-30XHYAKURI TWR  
118.025- 126.2  
236.8 - 323.8  
119.5G - 275.8G

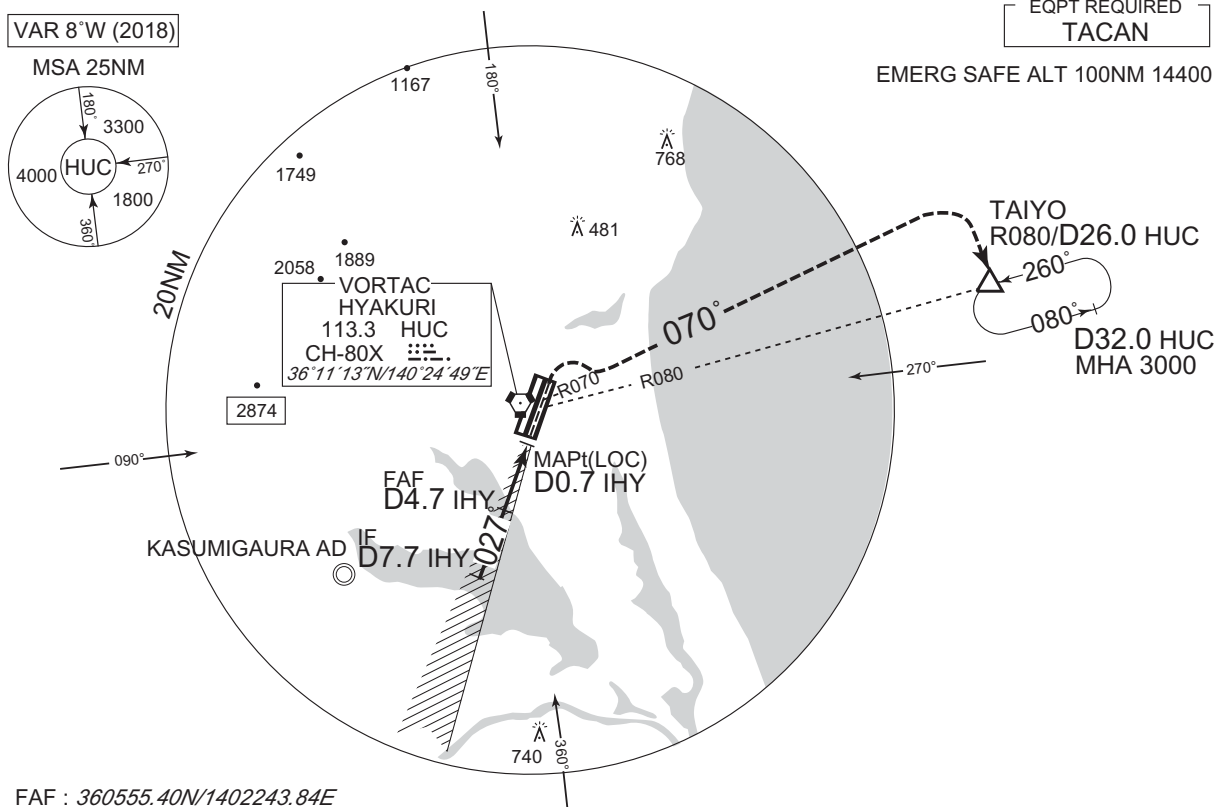
RADAR AVBL

VAR 8°W (2018)

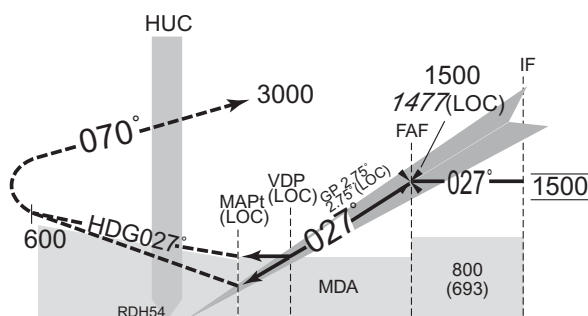
MSA 25NM

EQPT REQUIRED  
TACAN

EMERG SAFE ALT 100NM 14400



**MISSED APPROACH**  
Climb on HDG027° to 600FT,  
turn right climb to 3000FT  
via HUC R070, via HUC 26.0DME  
clockwise ARC to TAIYO and hold.  
Contact HYAKURI APP.



Timing not authorized for defining the MAPt.

DME to IHY	0.7	1.4	4.7	7.7	
NM to THR	0	0.5	1.2	4.5	7.5

CHANGE : MDA(H) for LOC.

MINIMA		THR elev. 107		AD elev. 107		
CAT	CAT I	RVR/ CMV	LOC		CIRCLING	
	DA(H)		MDA(H)	RVR/ CMV	MDA(H)	VIS
A	307 (200)	750	520 (413)	900	580 (473)	1600
B				1000		
C				1400	660 (553)	2400
D						3200



INSTRUMENT APPROACH CHART

RJAH / HYAKURI

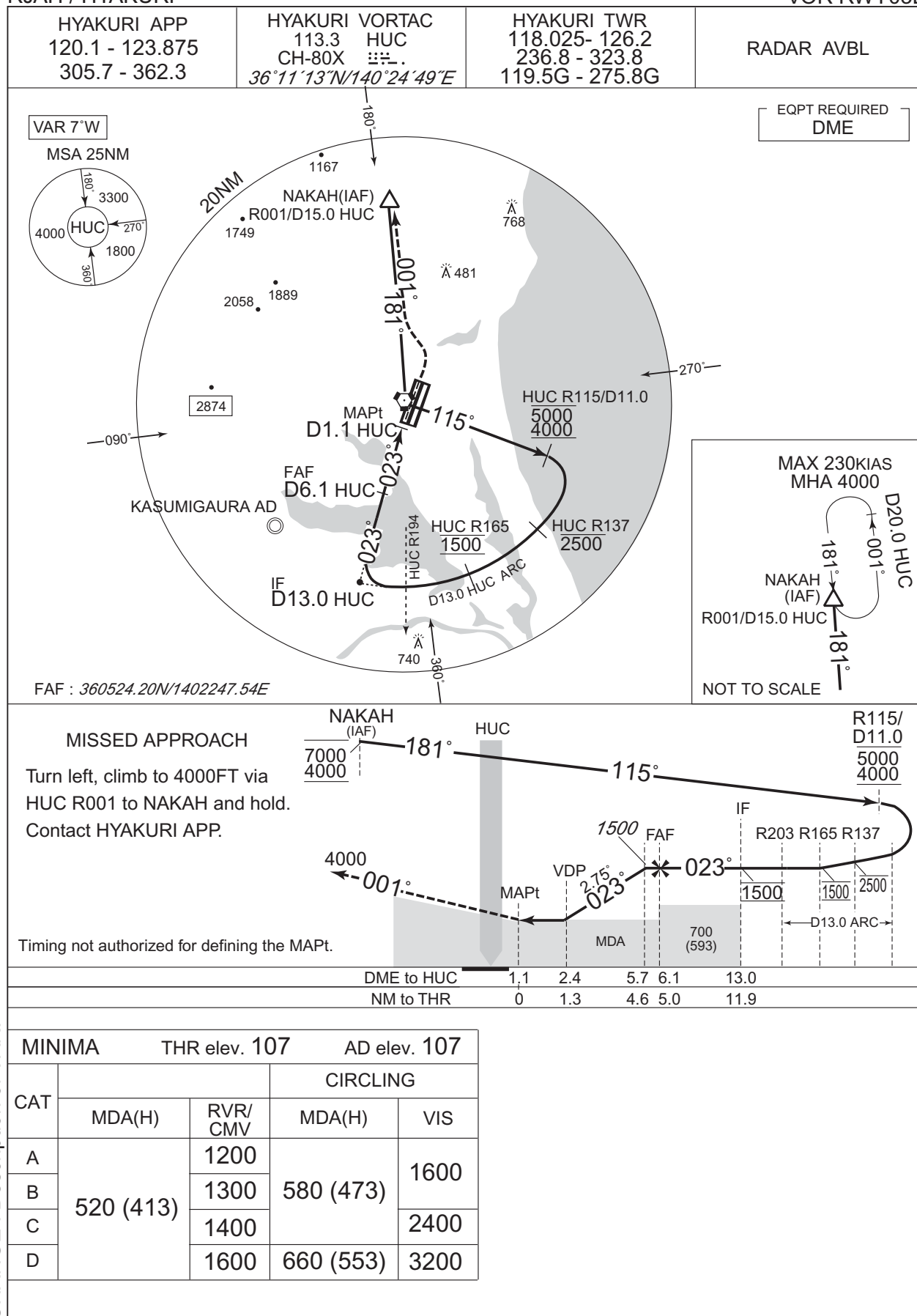
VOR RWY03R



## INSTRUMENT APPROACH CHART

RJAHA / HYAKURI

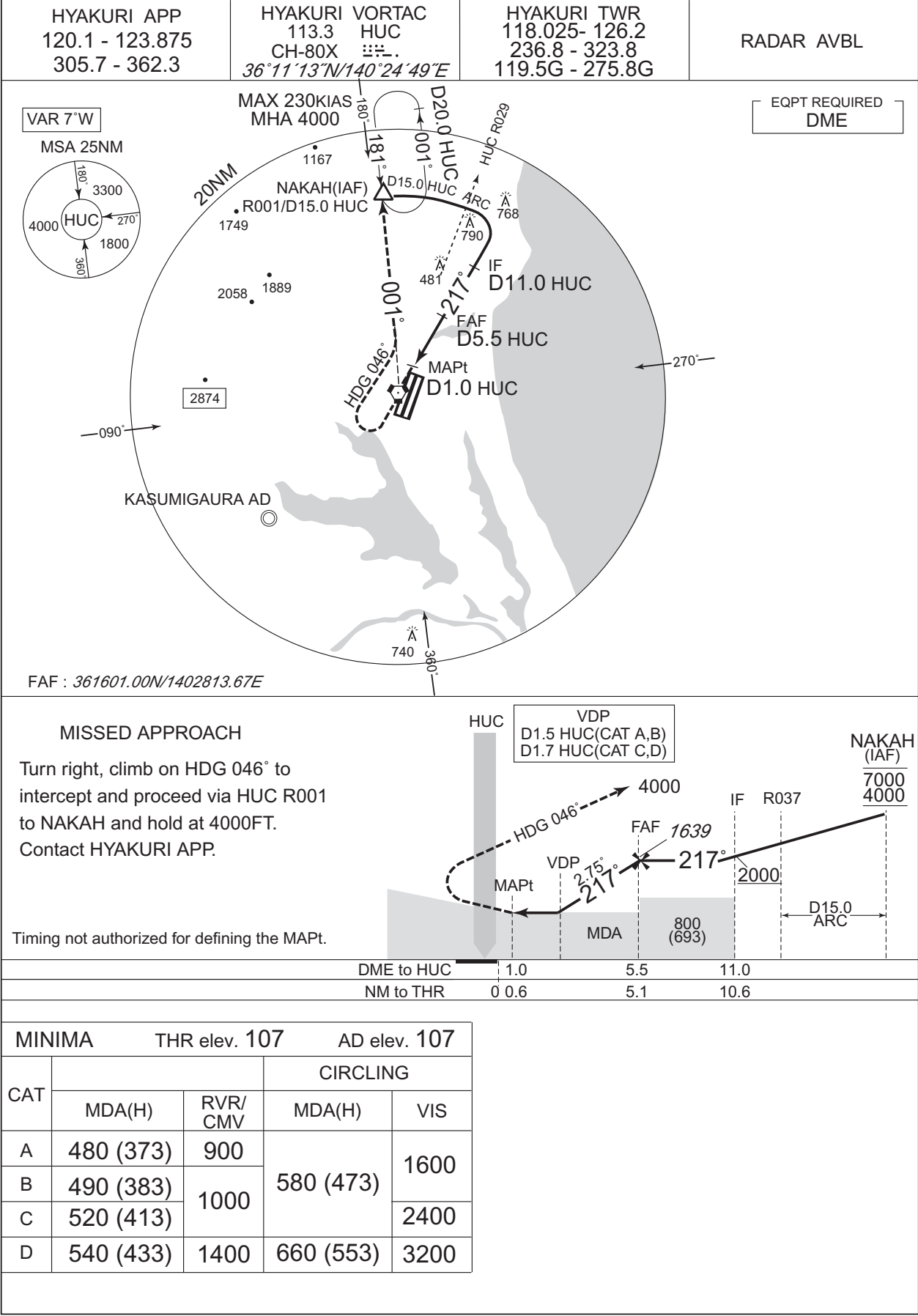
VOR RWY03L



INSTRUMENT APPROACH CHART

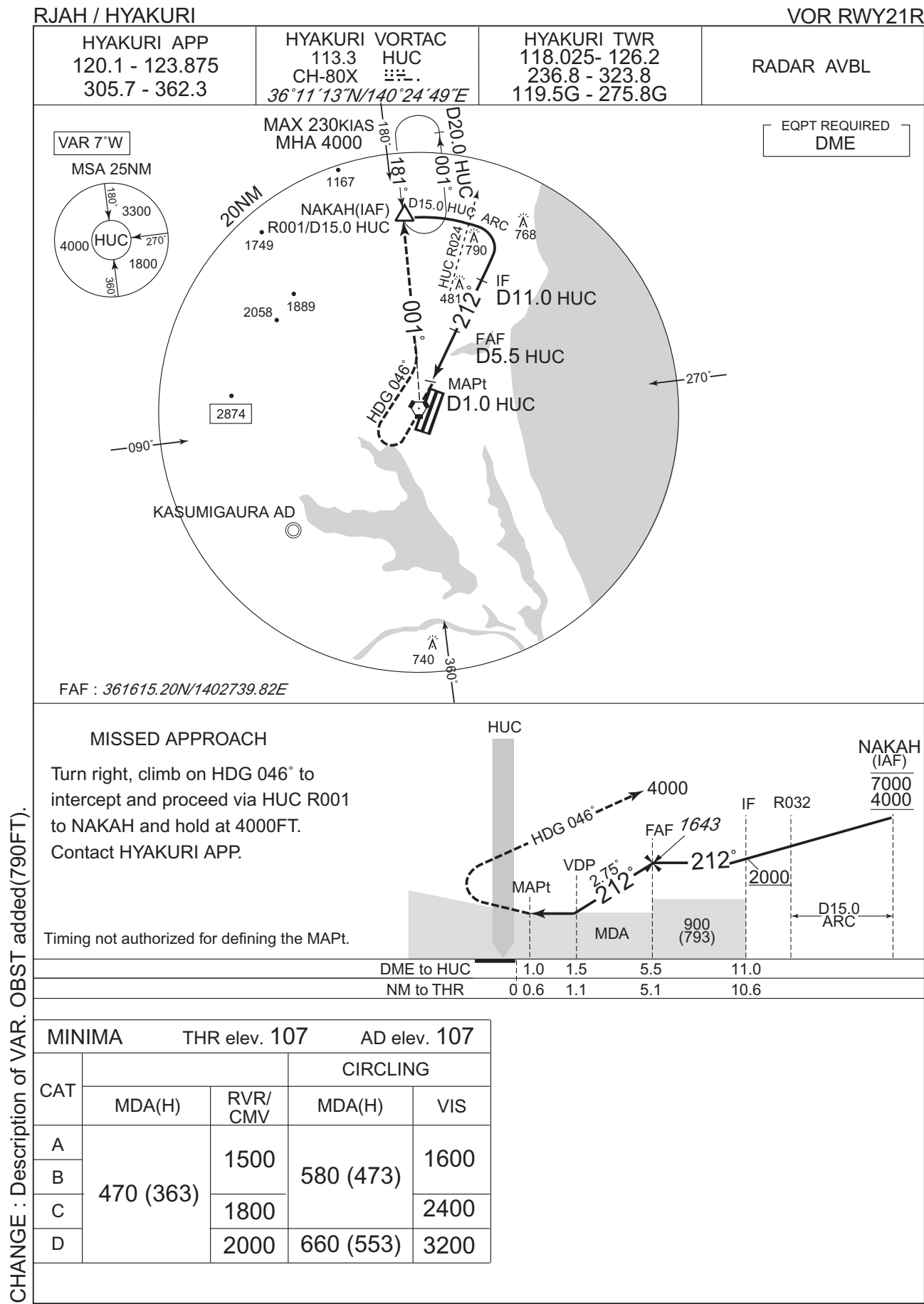
RJAH / HYAKURI

VOR RWY21L



CHANGE : Description of VAR. OBST added(790FT).

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJAH / HYAKURI

VOR B



CHANGE : Description of VAR.

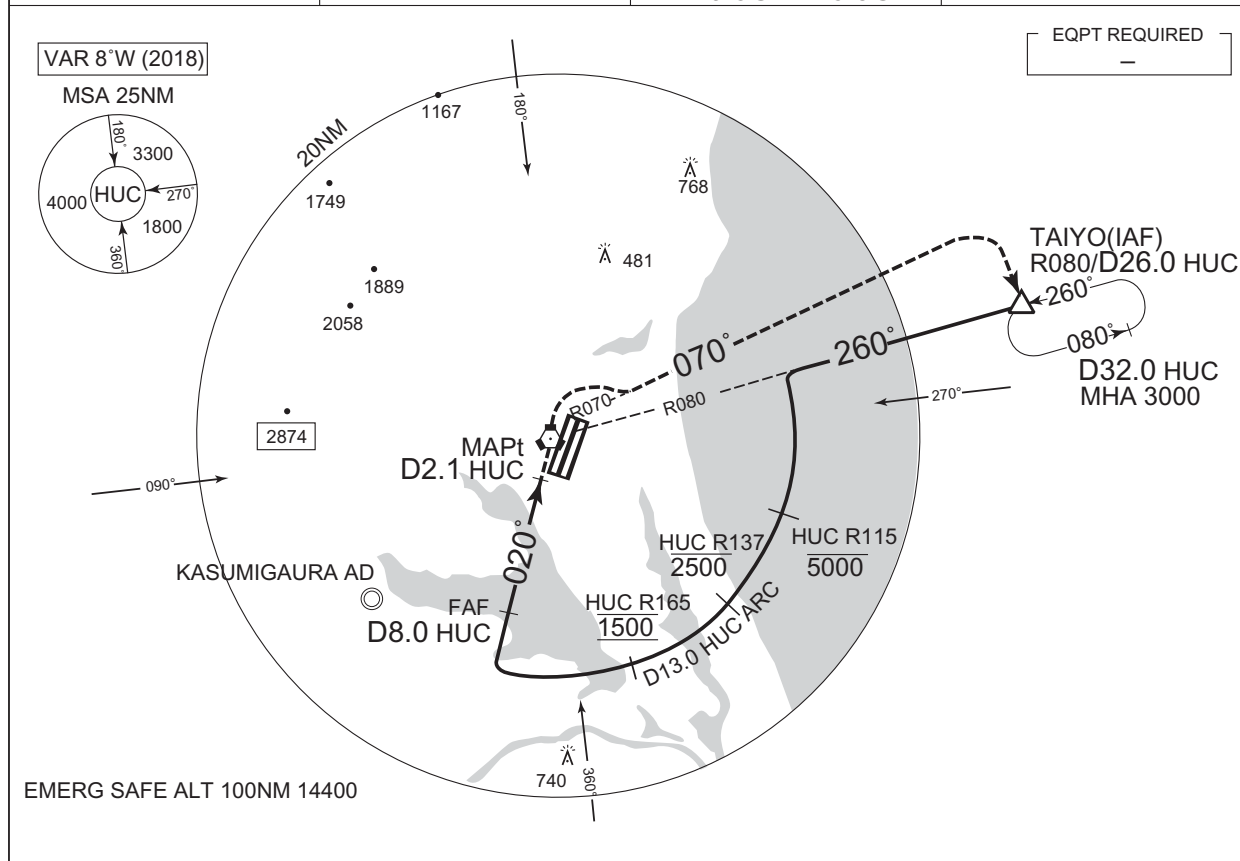
MINIMA    AD elev. 107		
CAT	CIRCLING	
	MDA(H)	VIS
A	580 (473)	1600
B		
C		
D	660 (553)	3200

## INSTRUMENT APPROACH CHART

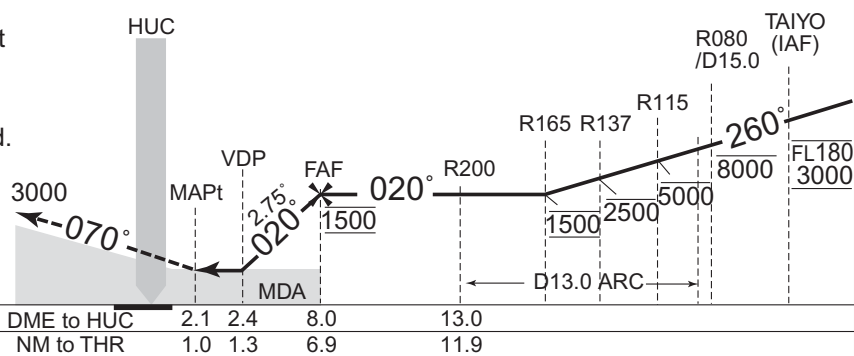
RJAHA / HYAKURI

TACAN Z RWY03R

HYAKURI APP 120.1 - 123.875 305.7 - 362.3	HYAKURI VORTAC 113.3 HUC 3300 CH-80X 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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**MISSED APPROACH**  
2.1DME prior to HUC TACAN, right climbing turn to 3000FT via HUC R070, via HUC 26.0DME clockwise ARC to TAIYO and hold. Contact HYAKURI APP.



MINIMA THR elev. 107 AD elev. 107

CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	540 (433)	1000	580 (473)	1600
B		1200		660 (553)
C			1600	
D				

## INSTRUMENT APPROACH CHART

RJAH / HYAKURI

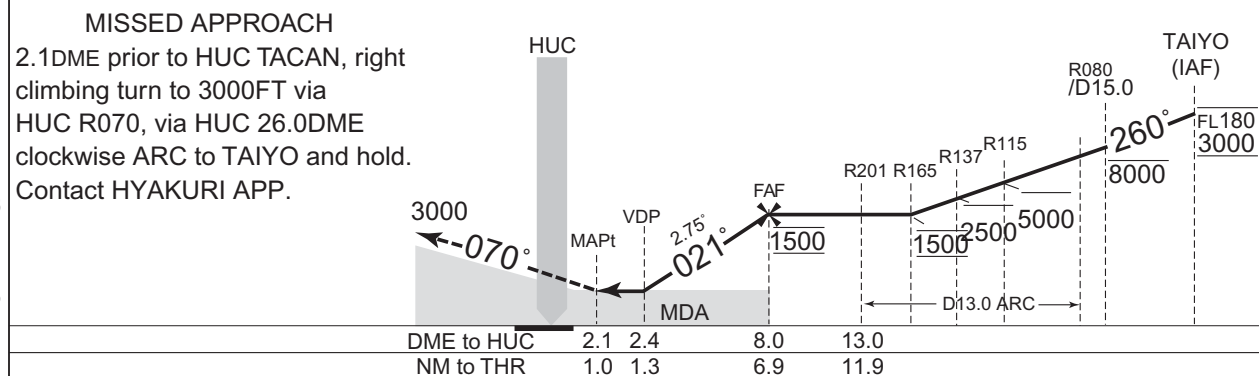
TACAN Y RWY03R



## INSTRUMENT APPROACH CHART

RJAH / HYAKURI

TACAN Z RWY03L




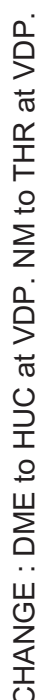
MINIMA	THR elev. 107	AD elev. 107	CIRCLING	
CAT	MDA(H)	RVR/CMV	MDA(H)	VIS
A	540 (433)	1400	580 (473)	1600
B		1500		
C		1600	660 (553)	2400
D		1800		

CHANGE : DME to HUC at VDP. NM to THR at VDP.



## RJAH / HYAKURI

HYAKURI APP 120.1 - 123.875 305.7 - 362.3	HYAKURI VORTAC 113.3 HUC  CH-80X 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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**MISSED APPROACH**  
2.1DME prior to HUC TACAN, right climbing turn to 3000FT via HUC R070, via HUC 26.0DME clockwise ARC to TAIYO and hold.  
Contact HYAKURI APP.

The diagram illustrates a missed approach procedure starting from a point 2.1 DME prior to HUC TACAN. The procedure involves a right climbing turn to 3000 FT via HUC R070, followed by a clockwise arc to TAIYO and hold. Key features include:

- Initial Climb:** A dashed line shows a climb from 3000 FT to 3000 FT via HUC R070.
- MAPt and VDP:** The Minimum Altitude Point (MAPt) is at 2.1 DME, and the Visual Descent Point (VDP) is at 2.4 DME.
- MDA:** The Minimum Descent Altitude (MDA) is 1500 FT.
- ARC:** A clockwise arc is performed from HUC 26.0 DME to TAIYO and hold.
- Altitudes:** The initial climb is to 3000 FT. The MDA is 1500 FT. The arc is performed at 1500 FT. The final altitude is 2850 FT.
- Distances:** The distance from HUC TACAN to TAIYO is 26.0 DME. The distance from HUC TACAN to the start of the arc is 2.1 DME. The distance from the start of the arc to TAIYO is 2.4 DME.
- Angles:** The initial climb is at 070°. The arc is performed at 021°.
- Other Waypoints:** The diagram also shows waypoints R201, R165, R137, R115, and ITAKO (IAF) at 10000 FT.

Distance	Altitude	Notes
2.1 DME	3000 FT	MAPt
2.4 DME	1500 FT	VDP
26.0 DME	1500 FT	Start of ARC
28.5 DME	2850 FT	TAIYO and hold

MINIMA		THR elev. 107	AD elev. 107	
CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	540 (433)	1400	580 (473)	1600
B		1500		
C		1600	660 (553)	2400
D		1800		3200

INSTRUMENT APPROACH CHART

RJAH / HYAKURI

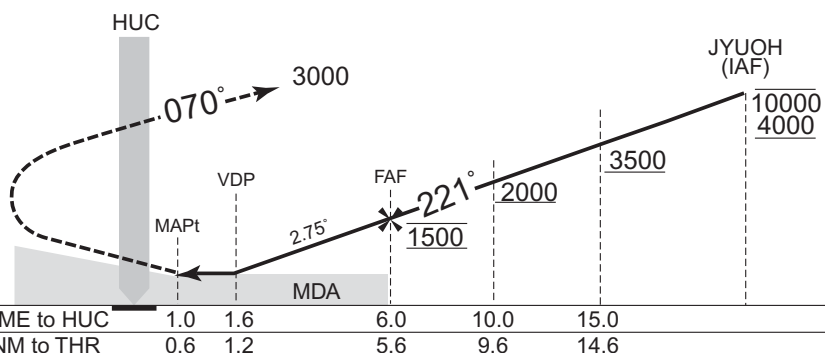
TACAN Z RWY21L

HYAKURI APP 120.1 - 123.875 305.7 - 362.3	HYAKURI VORTAC 113.3 HUC Ⅲ CH-80X 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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MISSED APPROACH

1.0DME prior to HUC TACAN, left climbing turn to 3000FT via HUC R070, via HUC 26.0DME clockwise ARC to TAIYO and hold.  
Contact HYAKURI APP.

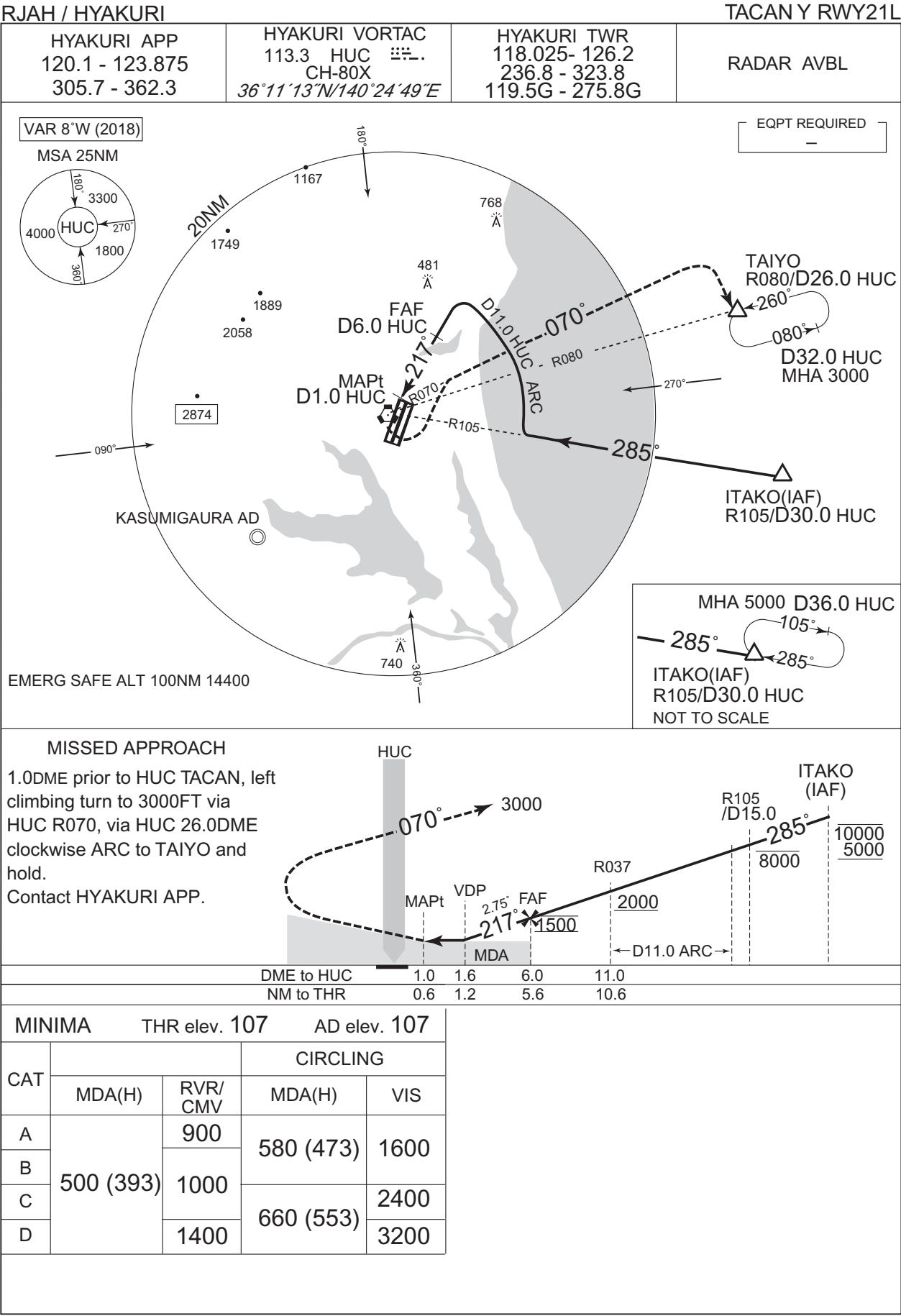


MINIMA THR elev. 107 AD elev. 107

CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	500 (393)	900	580 (473)	1600
B		1000		660 (553)
C			1400	
D				

CHANGE : DME to HUC at VDP. NM to THR at VDP.

INSTRUMENT APPROACH CHART



MISSED APPROACH

1.0DME prior to HUC TACAN, left climbing turn to 3000FT via HUC R070, via HUC 26.0DME clockwise ARC to TAIYO and hold.  
Contact HYAKURI APP.

HUC

070°

3000

MAPt

VDP

2.75°

FAF

217°

1500

MDA

R037

2000

D11.0 ARC

R105/D15.0

285°

ITAKO (IAF)

10000

5000

8000

DME to HUC

1.0

1.6

6.0

11.0

NM to THR

0.6

1.2

5.6

10.6

MINIMA

THR elev. 107

AD elev. 107

CAT	CIRCLING		MDA(H)	VIS
	MDA(H)	RVR/CMV		
A	500 (393)	900	580 (473)	1600
B		1000		
C		660 (553)	2400	
D				
		1400		3200

CHANGE : DME to HUC at VDP. NM to THR at VDP.

INSTRUMENT APPROACH CHART

RJAH / HYAKURI

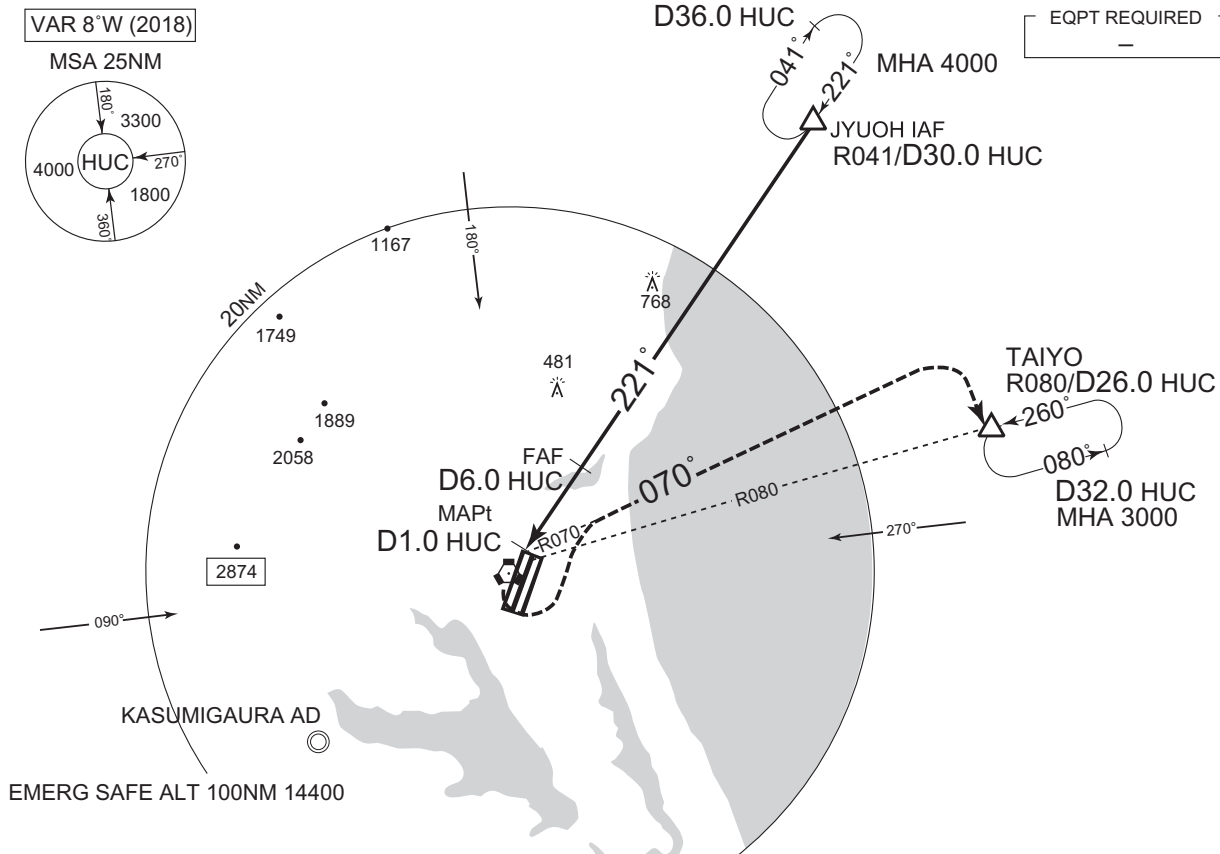
TACAN Z RWY21R

HYAKURI APP  
120.1 - 123.875  
305.7 - 362.3

HYAKURI VORTAC  
113.3 HUC 36°11'13"N/140°24'49"E  
CH-80X

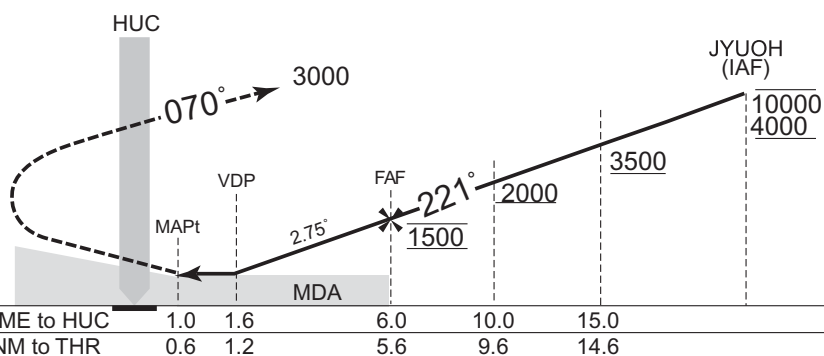
HYAKURI TWR  
118.025- 126.2  
236.8 - 323.8  
119.5G - 275.8G

RADAR AVBL



MISSED APPROACH

1.0DME prior to HUC TACAN, left climbing turn to 3000FT via HUC R070, via HUC 26.0DME clockwise ARC to TAIYO and hold. Contact HYAKURI APP.



MINIMA THR elev. 107 AD elev. 107

CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	500 (393)	1500	580 (473)	1600
B				
C		1800	660 (553)	2400
D		2000		3200

CHANGE : DME to HUC at VDP. NM to THR at VDP.

INSTRUMENT APPROACH CHART

RJAH / HYAKURI TACAN Y RWY21R



INSTRUMENT APPROACH CHART

RJAH / HYAKURI

TACAN A

HYAKURI APP  
120.1 - 123.875  
305.7 - 362.3

HYAKURI VORTAC  
113.3 HUC 113.3  
CH-80X  
36°11'13"N/140°24'49"E

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

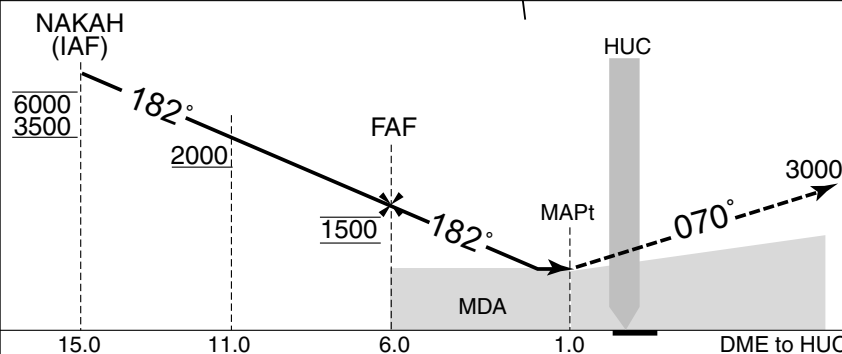
RADAR AVBL

VAR 8°W (2018)

EQPT REQUIRED  
—



EMERG SAFE ALT 100NM 14400



**MISSED APPROACH**  
1.0DME prior to HUC TACAN, left climbing turn to 3000FT via HUC R070, via HUC 26.0DME clockwise ARC to TAIYO and hold.  
Contact HYAKURI APP.

MINIMA

AD elev. 107

CAT	CIRCLING	
	MDA(H)	VIS
A	580 (473)	1600
B		
C	660 (553)	2400
D		3200

## RJAH / HYAKURI

RNP RWY03L



INSTRUMENT APPROACH CHART

RJAH / HYAKURI

RNP RWY21R

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
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MISSED APPROACH

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

PAPI and descent angles not coincident.



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

CENTER : 361108N/1402547E (RADAR SITE)