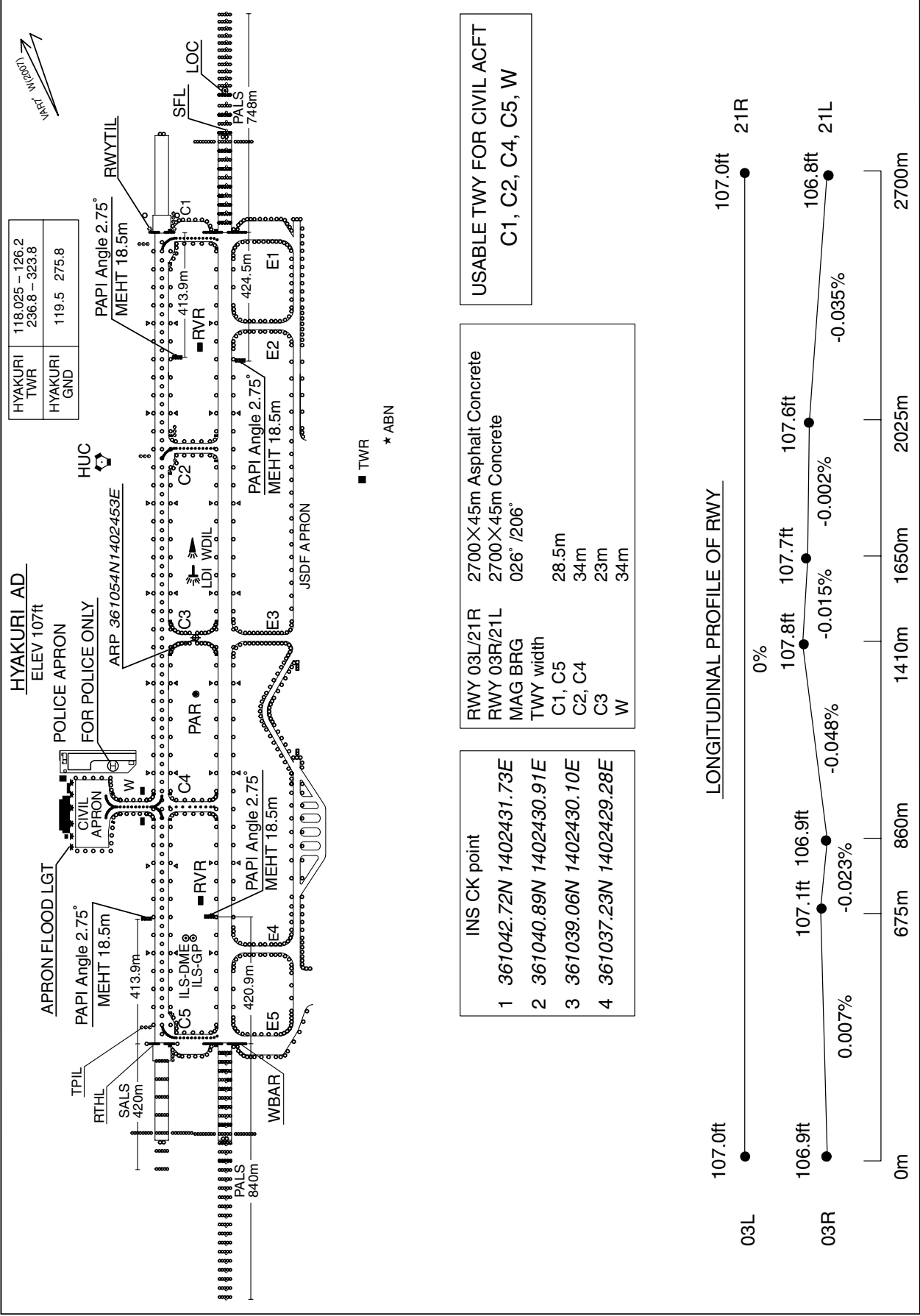


RJAH / HYAKURI

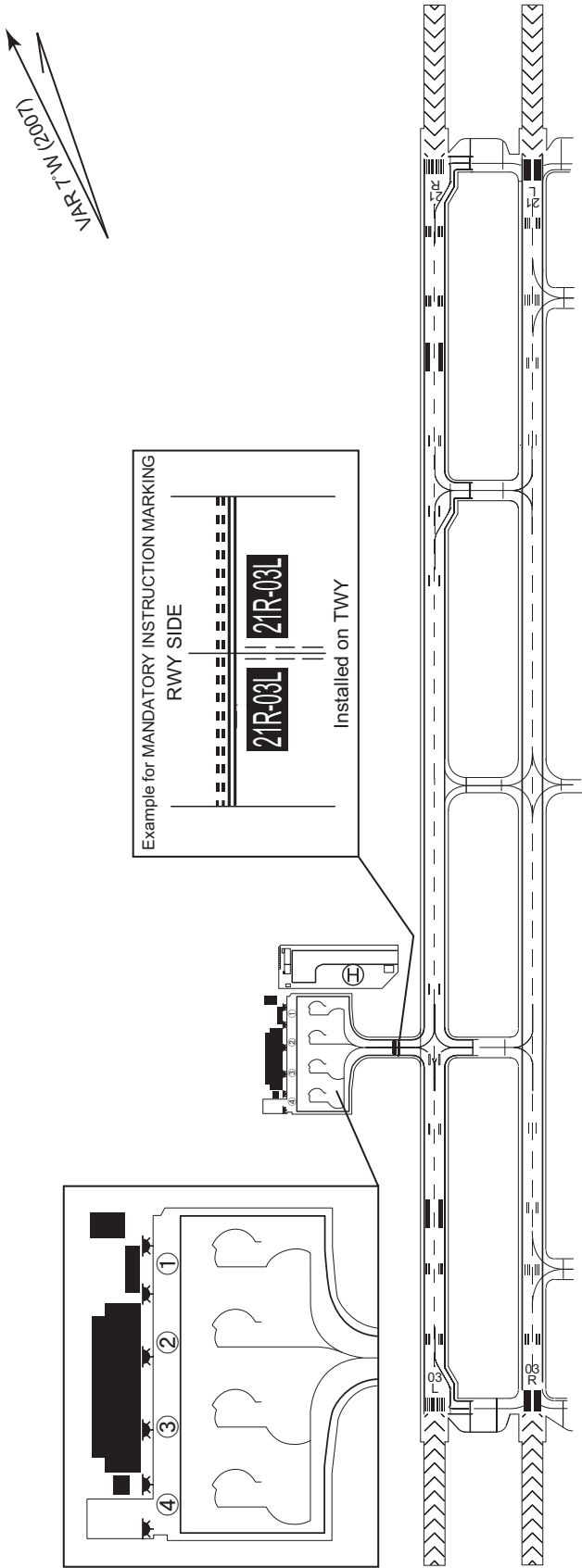
AD CHART



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.

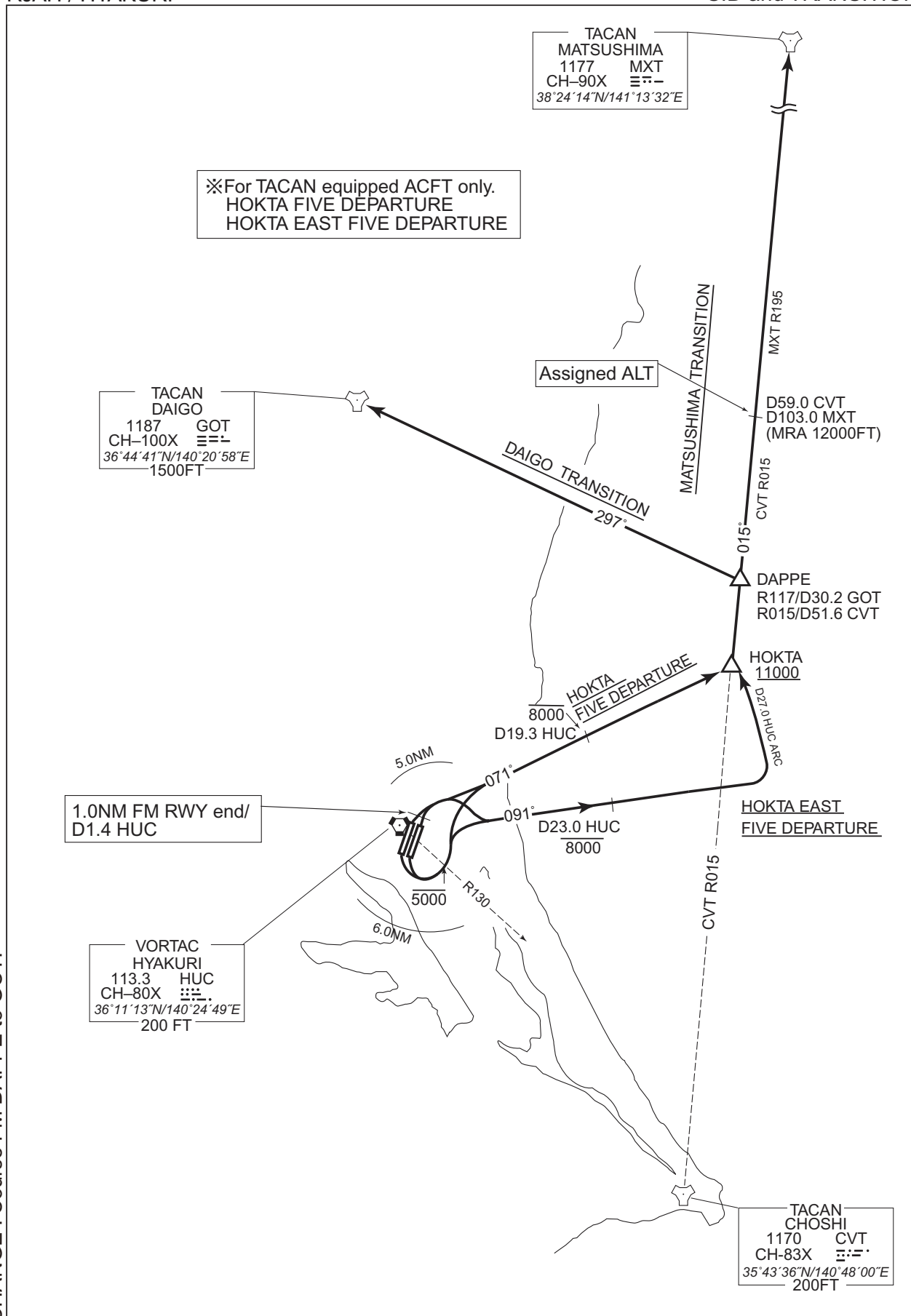
CHANGE : Course FM DAPPE to GOT.

STANDARD DEPARTURE CHART - INSTRUMENT

RJAH / HYAKURI

SID and TRANSITION

CHANGE : Course FM DAPPE to GOT.



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

HYAKURI TRANSITION

R130

269°

CHOSHI TRANSITION

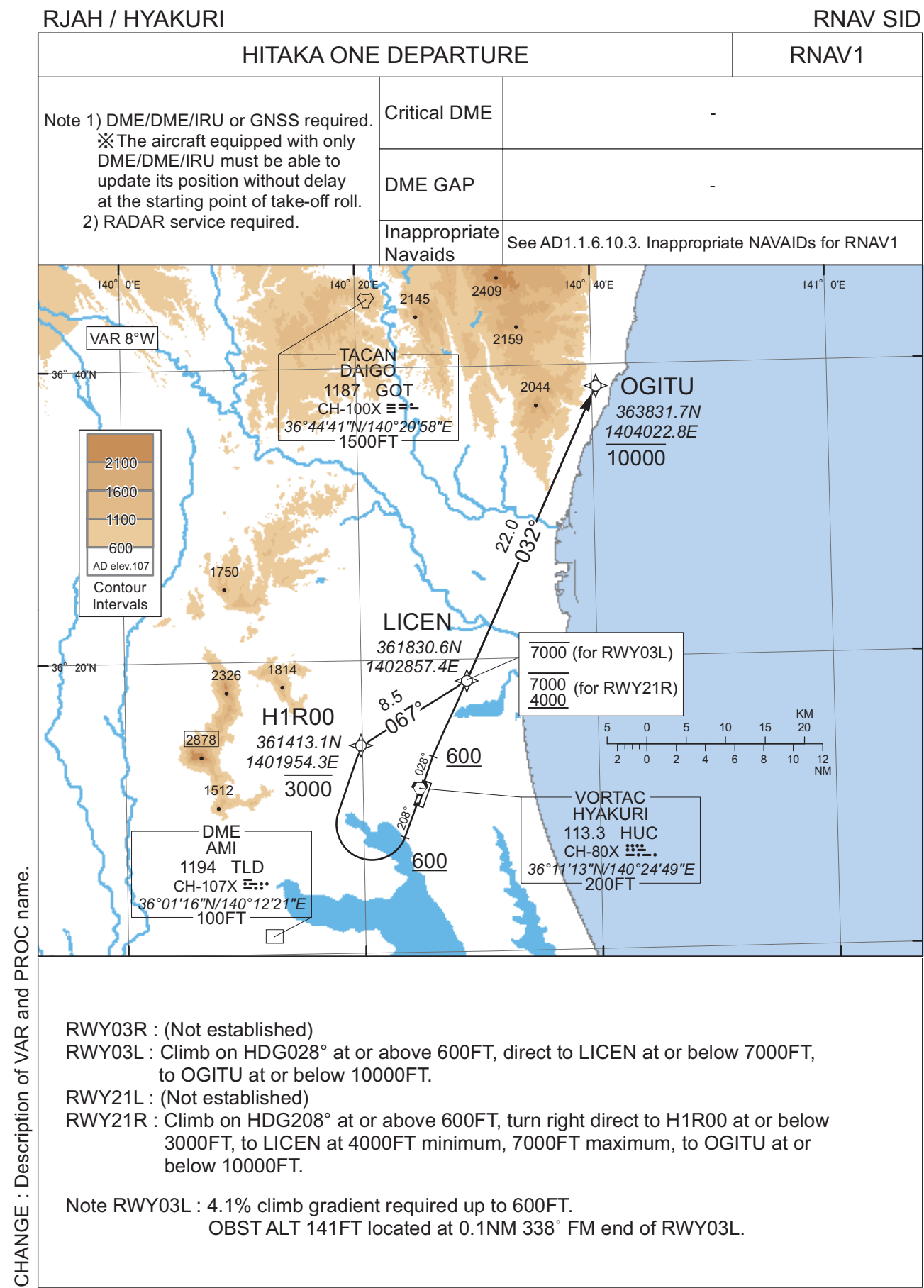
ANKOH
FL170
R015/D31.3 CVT
R089/D23.2 HUC

195°

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

CHANGE: ANKOH established

STANDARD DEPARTURE CHART - INSTRUMENT



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 Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

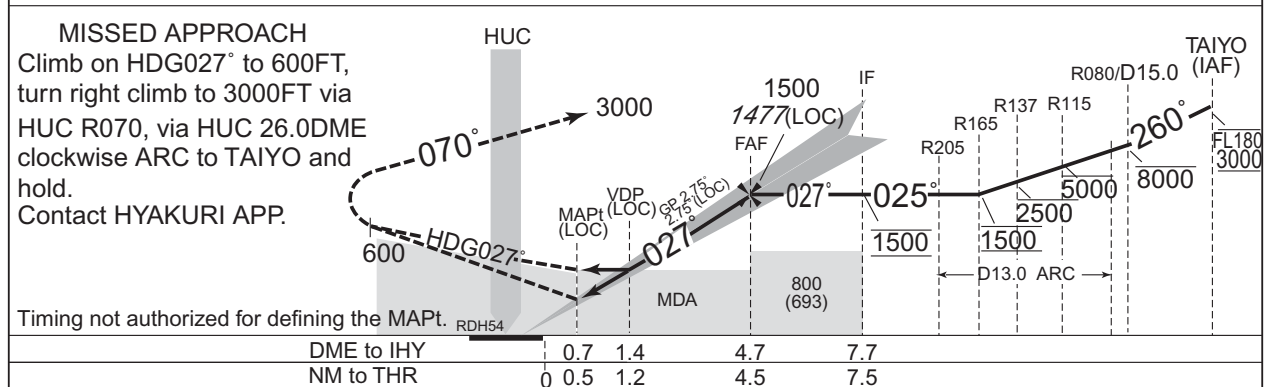
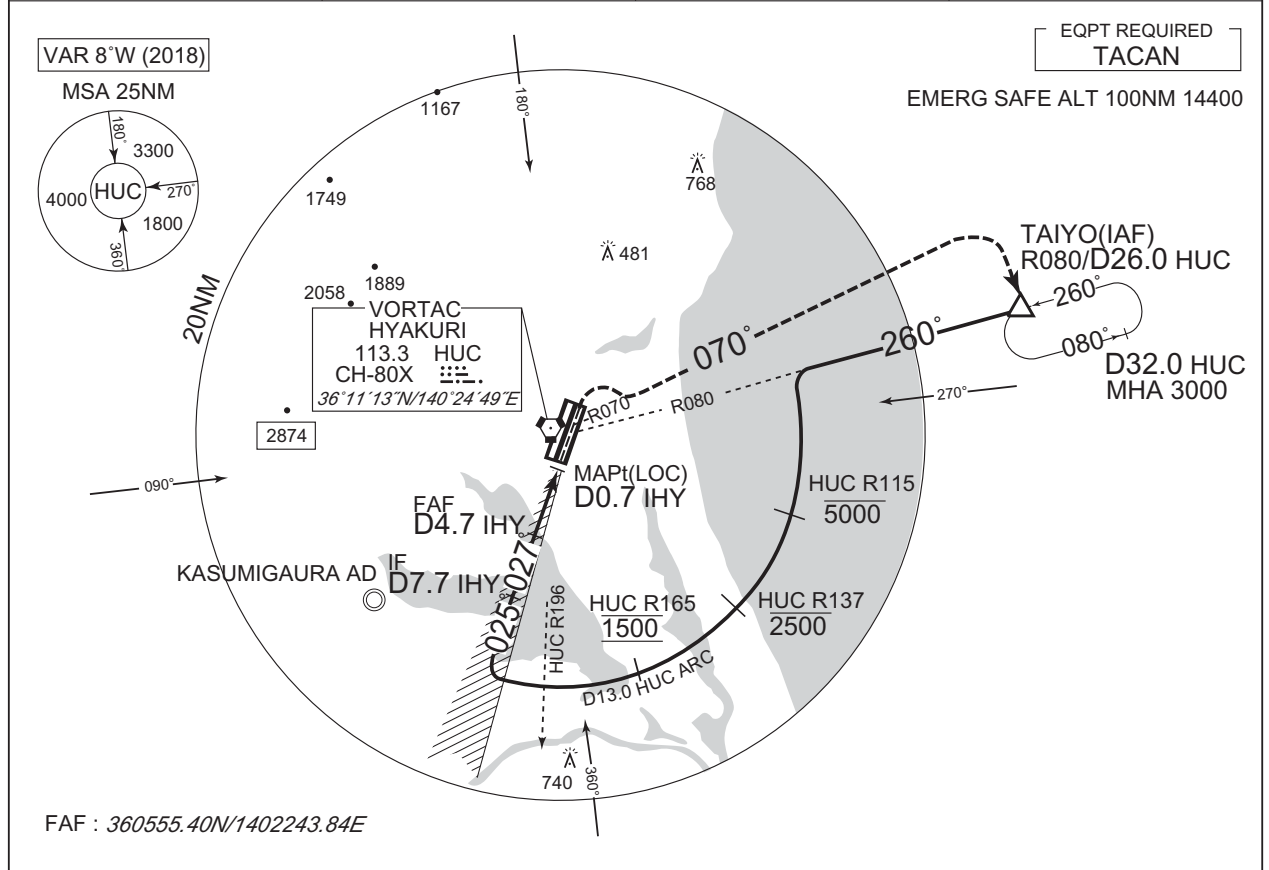
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	TATSU	-	-	-7.8	-	-	-	-	-	RNAV1
002	TF	YAMAD	-	221 (213.7)	-7.8	8.2	-	-7000	-	-	RNAV1
003	TF	NAKAH	-	221 (213.6)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

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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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				3200		

INSTRUMENT APPROACH CHART



CHANGE : DME to IHY at VDP. NM to THR at VDP. MDA(H) for LOC.

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

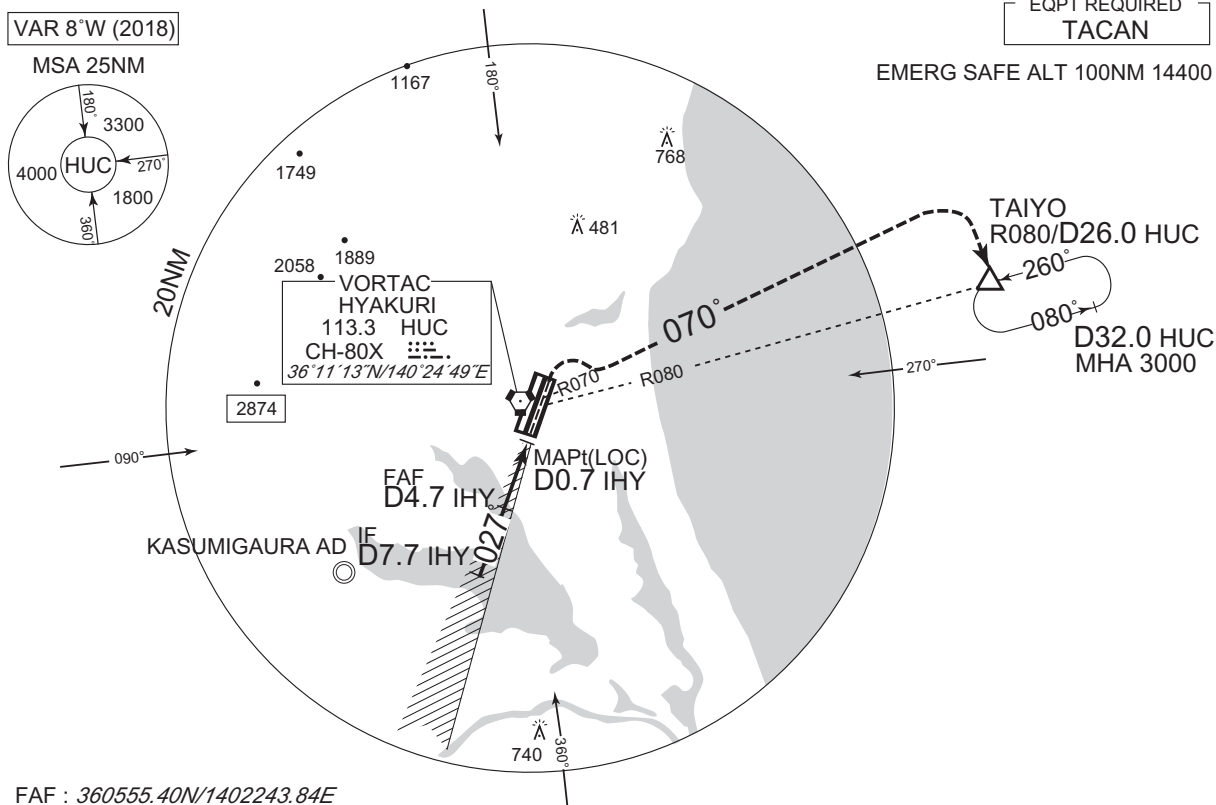
RADAR AVBL

VAR 8°W (2018)

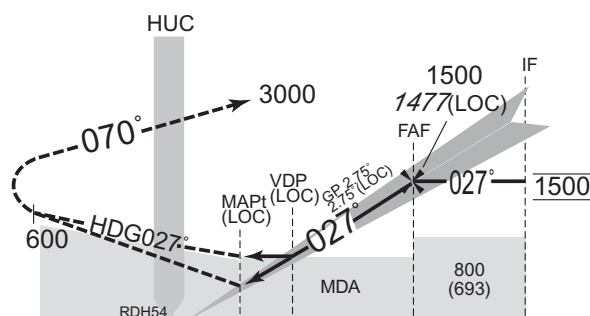
MSA 25NM

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	MDA(H)	RVR/ CMV	CIRCLING
	DA(H)					
A	307 (200)	750	520 (413)	1000	900	580 (473) 1600
B					1400	
C						2400
D						3200

INSTRUMENT APPROACH CHART

RJAH / HYAKURI

VOR RWY03R

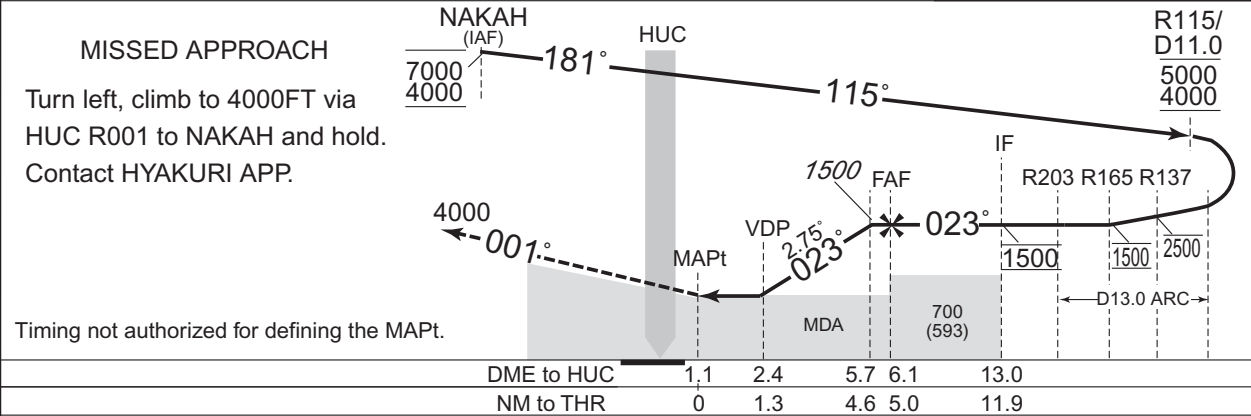
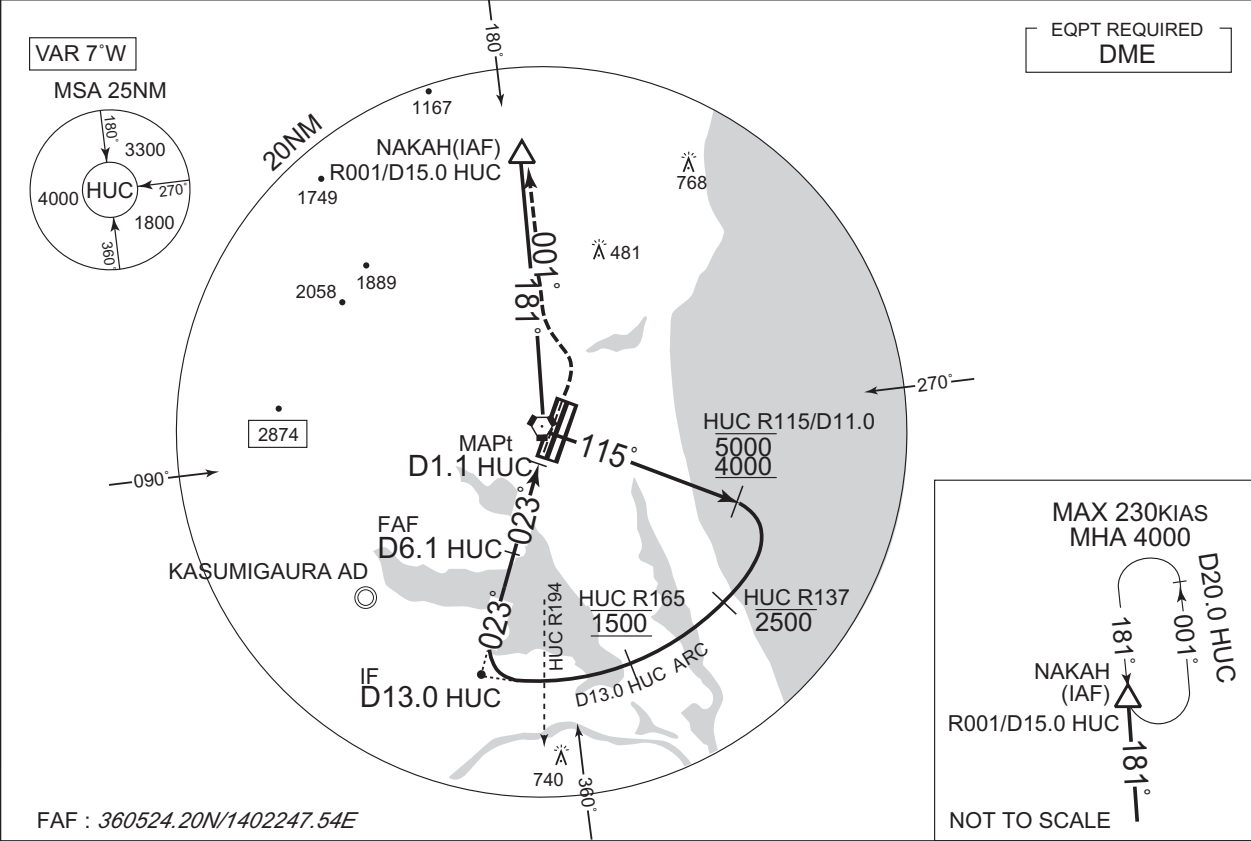


INSTRUMENT APPROACH CHART

RJAH / HYAKURI

VOR RWY03L

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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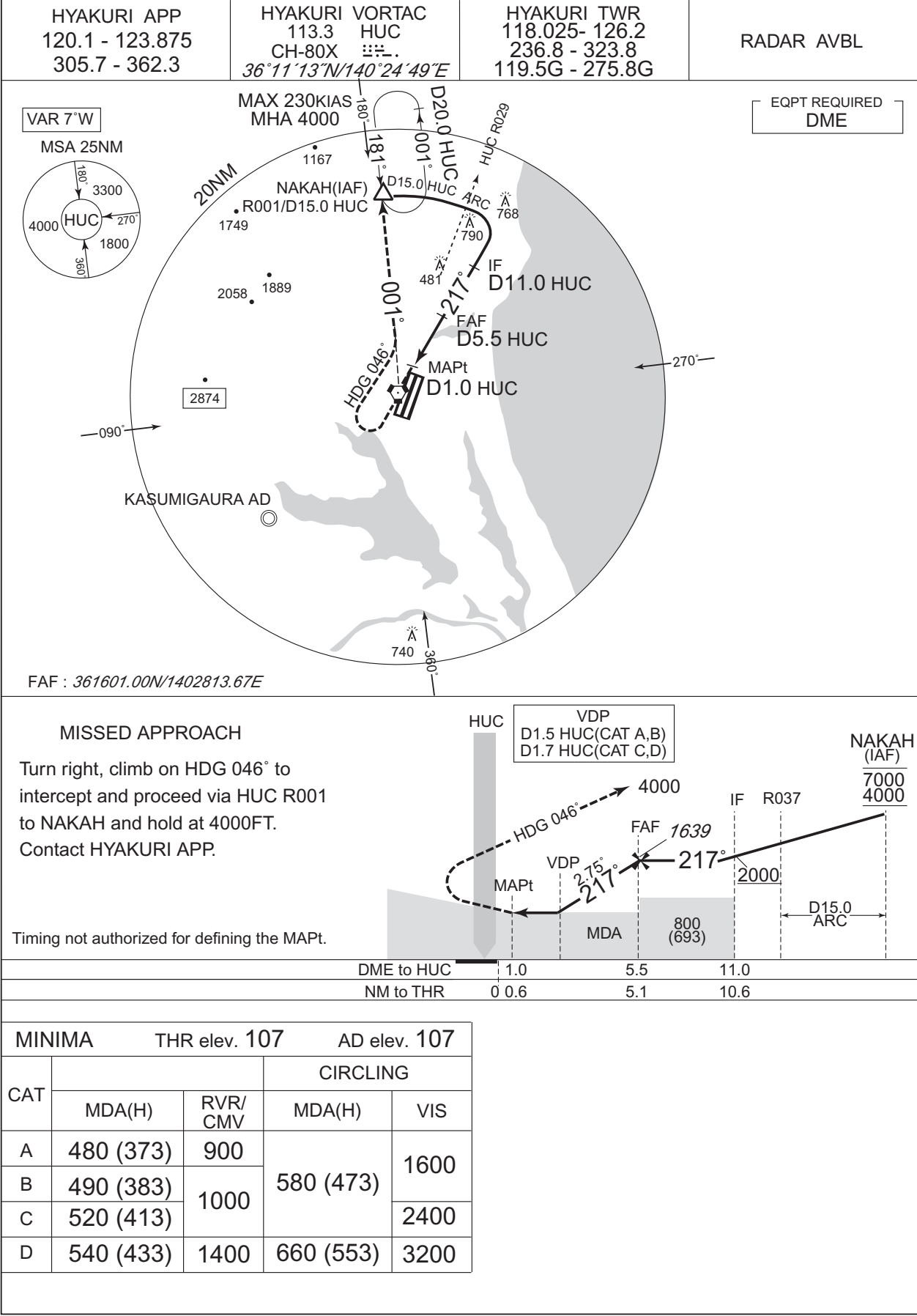
CHANGE : Description of VAR.

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		
C		1400		
D		1600	660 (553)	3200

INSTRUMENT APPROACH CHART

RJAH / HYAKURI

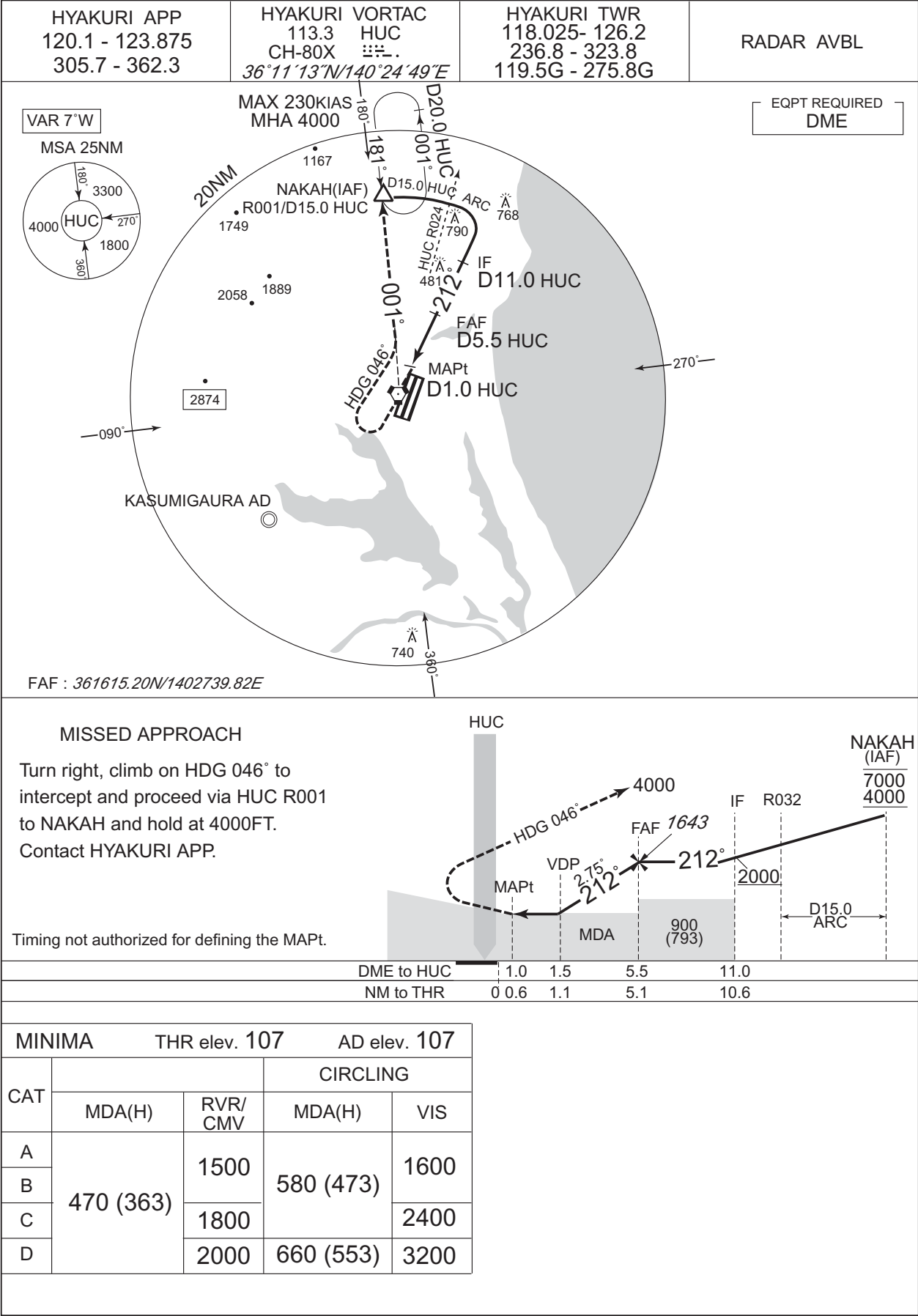
VOR RWY21L



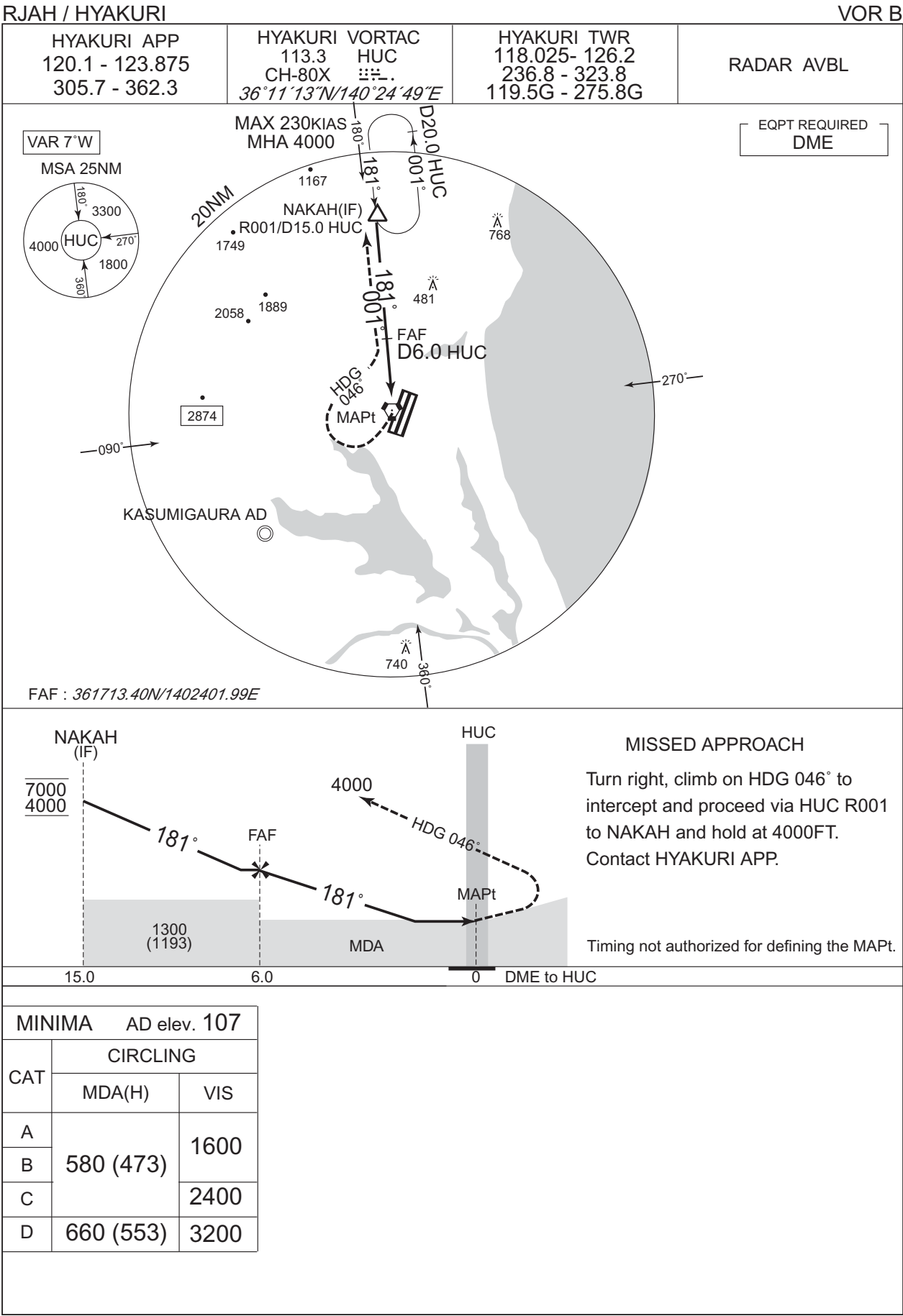
INSTRUMENT APPROACH CHART

RJAH / HYAKURI

VOR RWY21R




INSTRUMENT APPROACH CHART



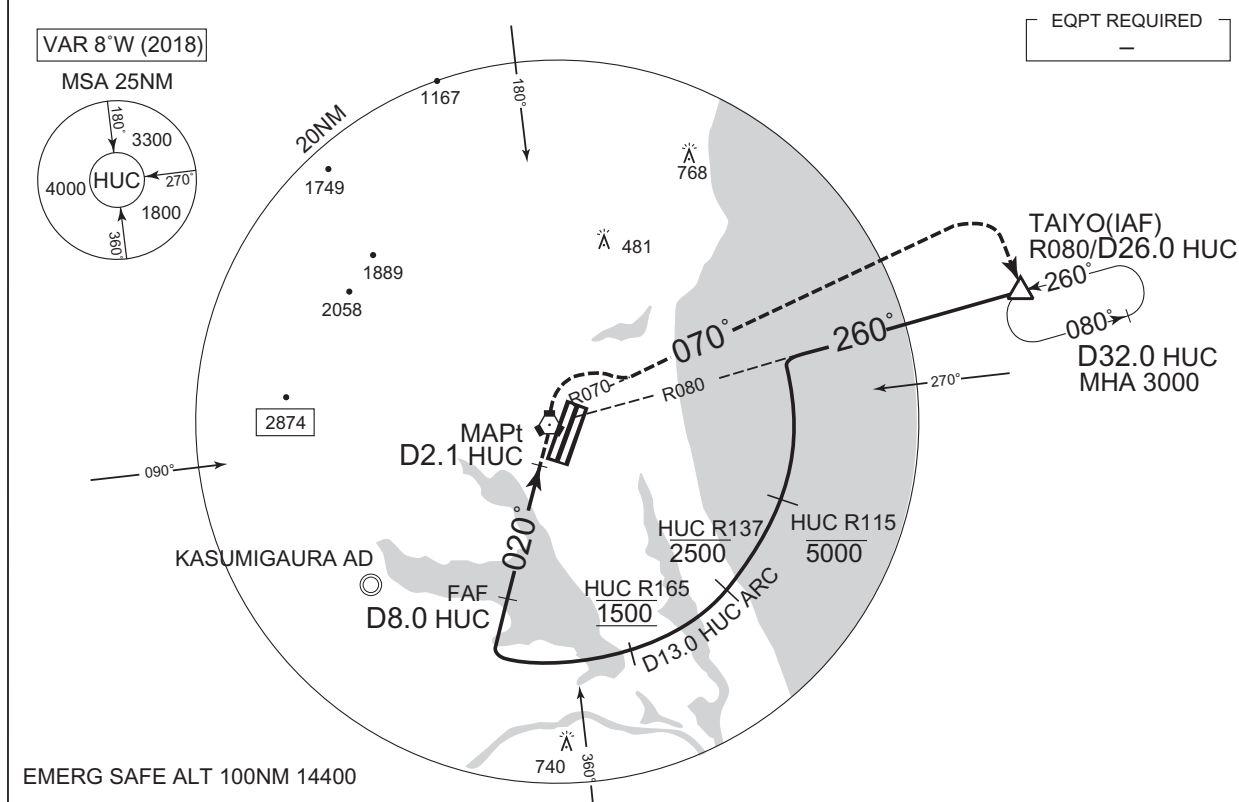
RJAH / HYAKURI

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



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		
C			660 (553)	2400
D				1600

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

INSTRUMENT APPROACH CHART

RJAH / HYAKURI

TACAN Y RWY03R

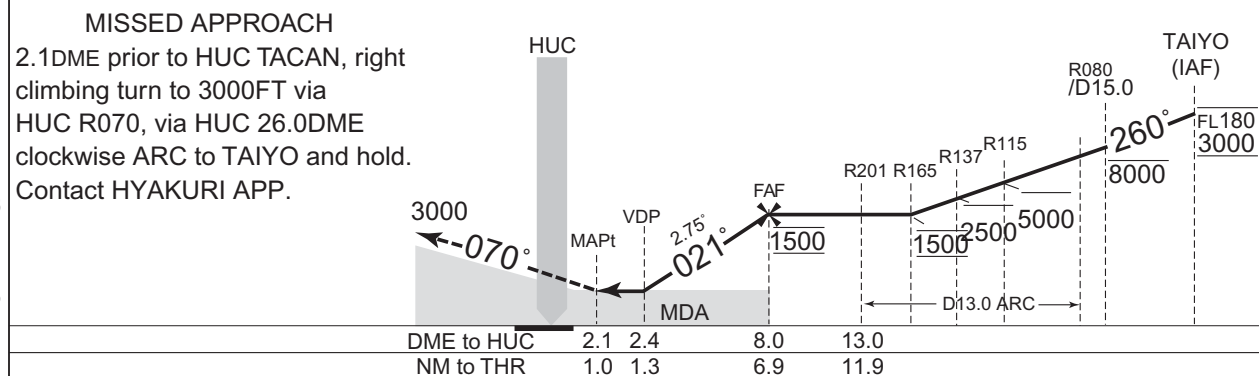


CHANGE : DME to HUC at VDP. NM to THR at VDP.

INSTRUMENT APPROACH CHART

RJAHA / 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

TACAN Y RWY03L

VAR 8° W (2018)

MSA 25NM

EQPT REQUIRED -

20NM

1167

1749

1889

2058

2874

090°

KASUMIGAUARA AD

FAF

D8.0 HUC

MAPt

D2.1 HUC

R070

R080

R105

HUC R137 2500

HUC R165 1500

D13.0 HUC ARC

HUC R115 5000

070°

285°

TAIYO R080/D26.0 HUC

080°

D32.0 HUC MHA 3000

ITAKO(IAF) R105/D30.0 HUC

285°

MHA 5000 D36.0 HUC

ITAKO(IAF) R105/D30.0 HUC

NOT TO SCALE

EMERG SAFE ALT 100NM 14400

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.

HUC

3000

070°

MAPt VDP

2.1 2.4 8.0 13.0 15.0 25.0 28.5

MDA

FAF

021°

021°

R201 R165 R137 R115 R105/D15.0

ITAKO (IAF)

10000 5000

8000

5000

D13.0 ARC

DME to HUC	2.1	2.4	8.0	13.0	15.0	25.0	28.5
NM to THR	1.0	1.3	6.9	11.9			

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

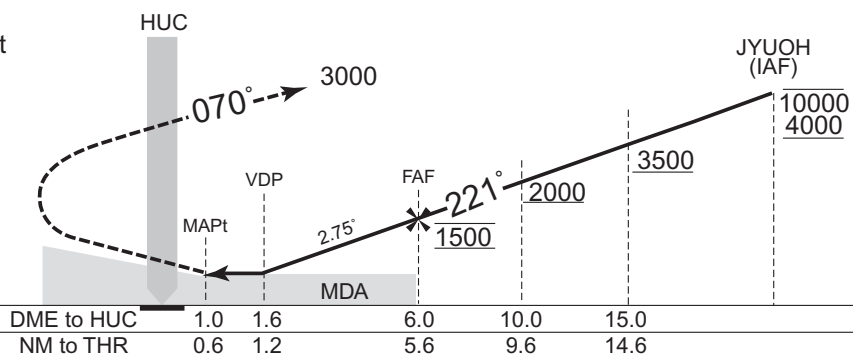
TACAN Z RWY21L

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.

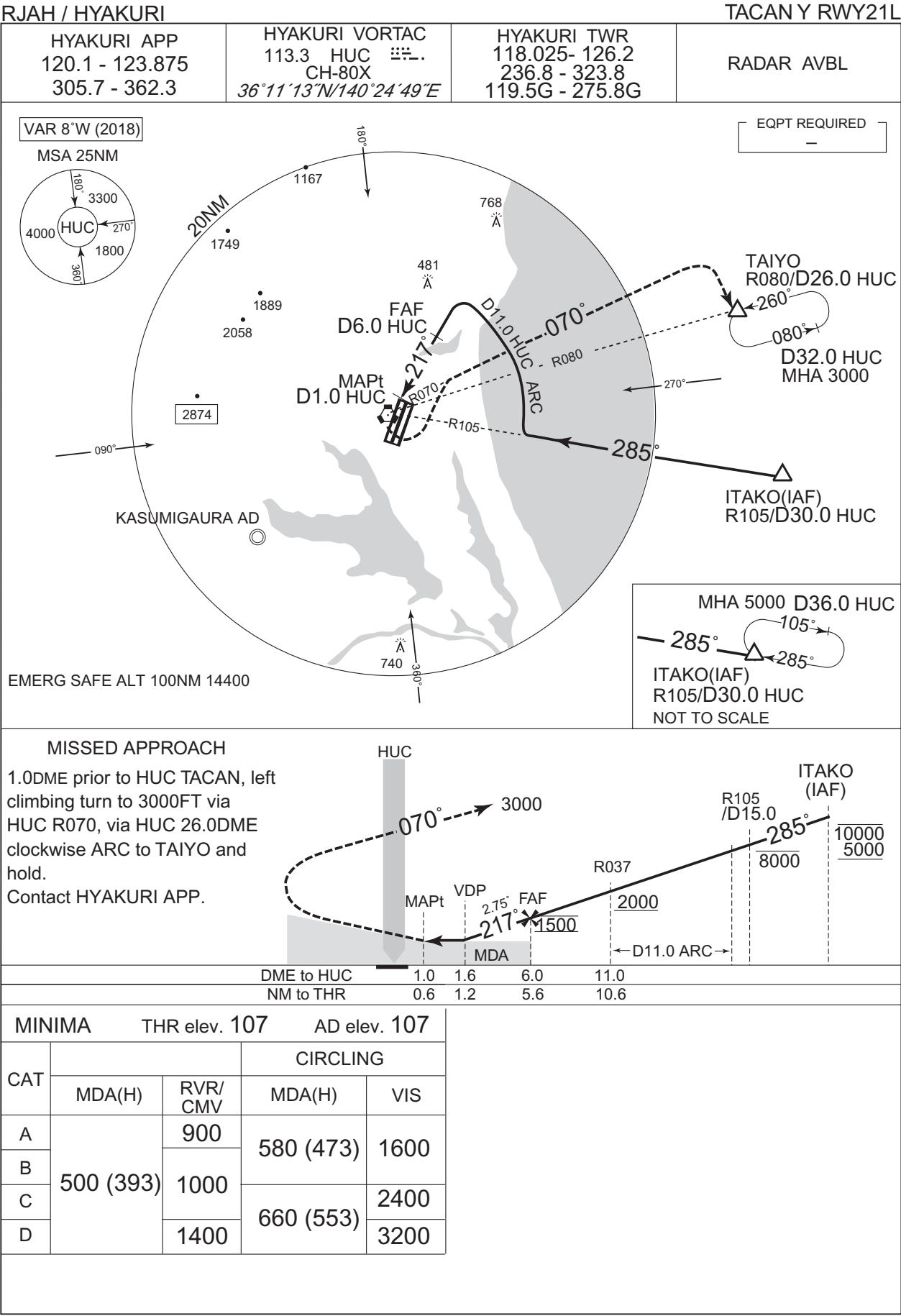


MINIMA THR elev. 107 AD elev. 107

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



INSTRUMENT APPROACH CHART

RJAH / HYAKURI

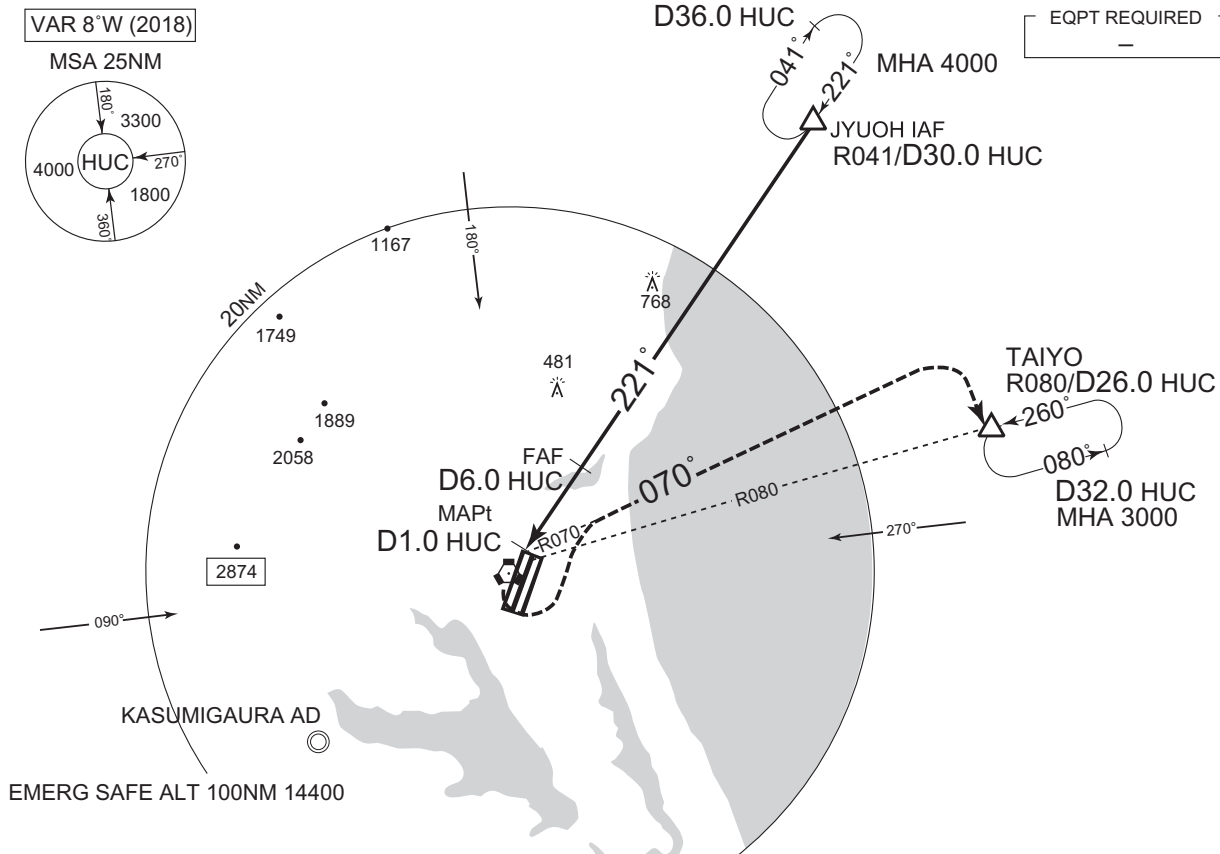
TACAN Z RWY21R

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



RJAH / HYAKURI

HYAKURI APP
120.1 - 123.875
305.7 - 362.3

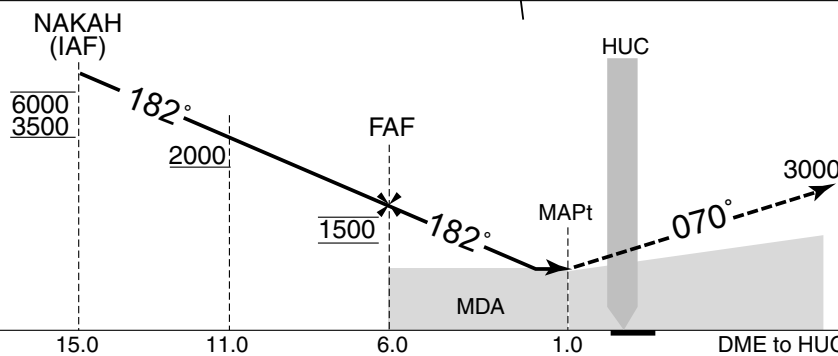
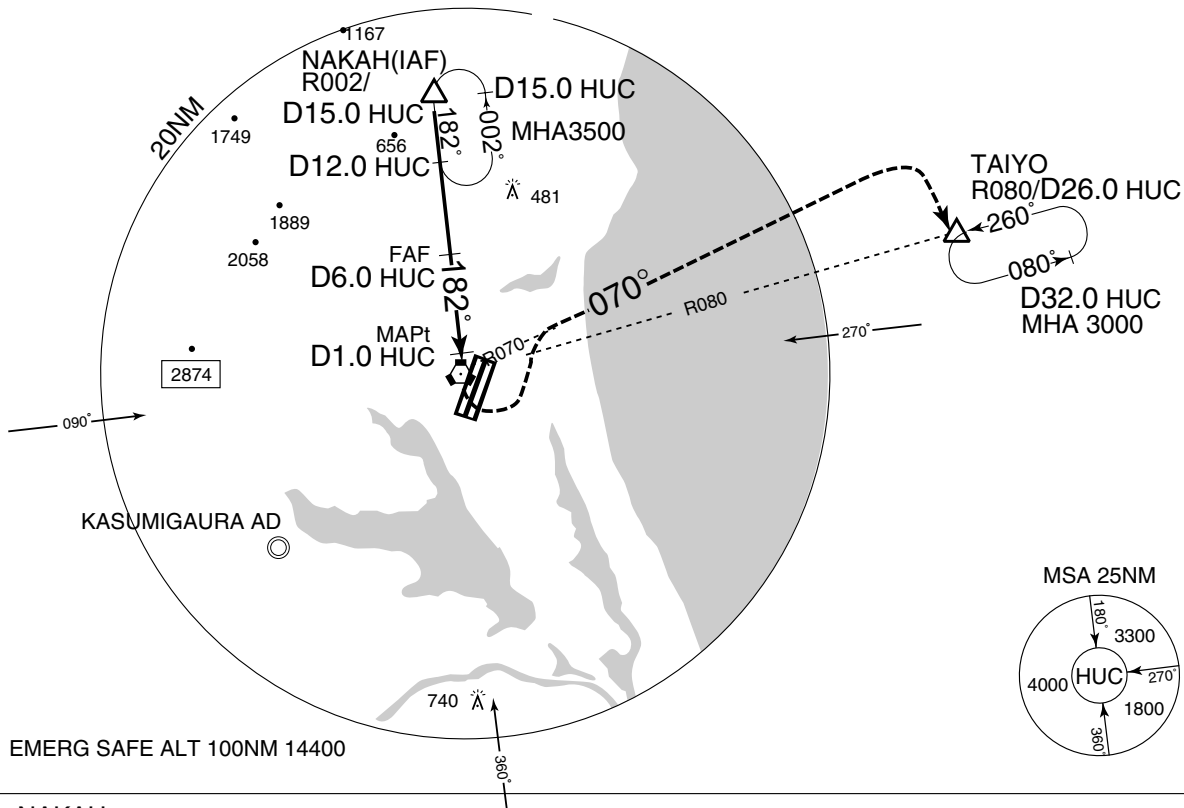
HYAKURI VORTAC
113.3 HUC 
CH-80X
36°11'13"N/140°24'49"

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

RADAR AVBL

VAR 8°W (2018)

- EQPT REQUIRED



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



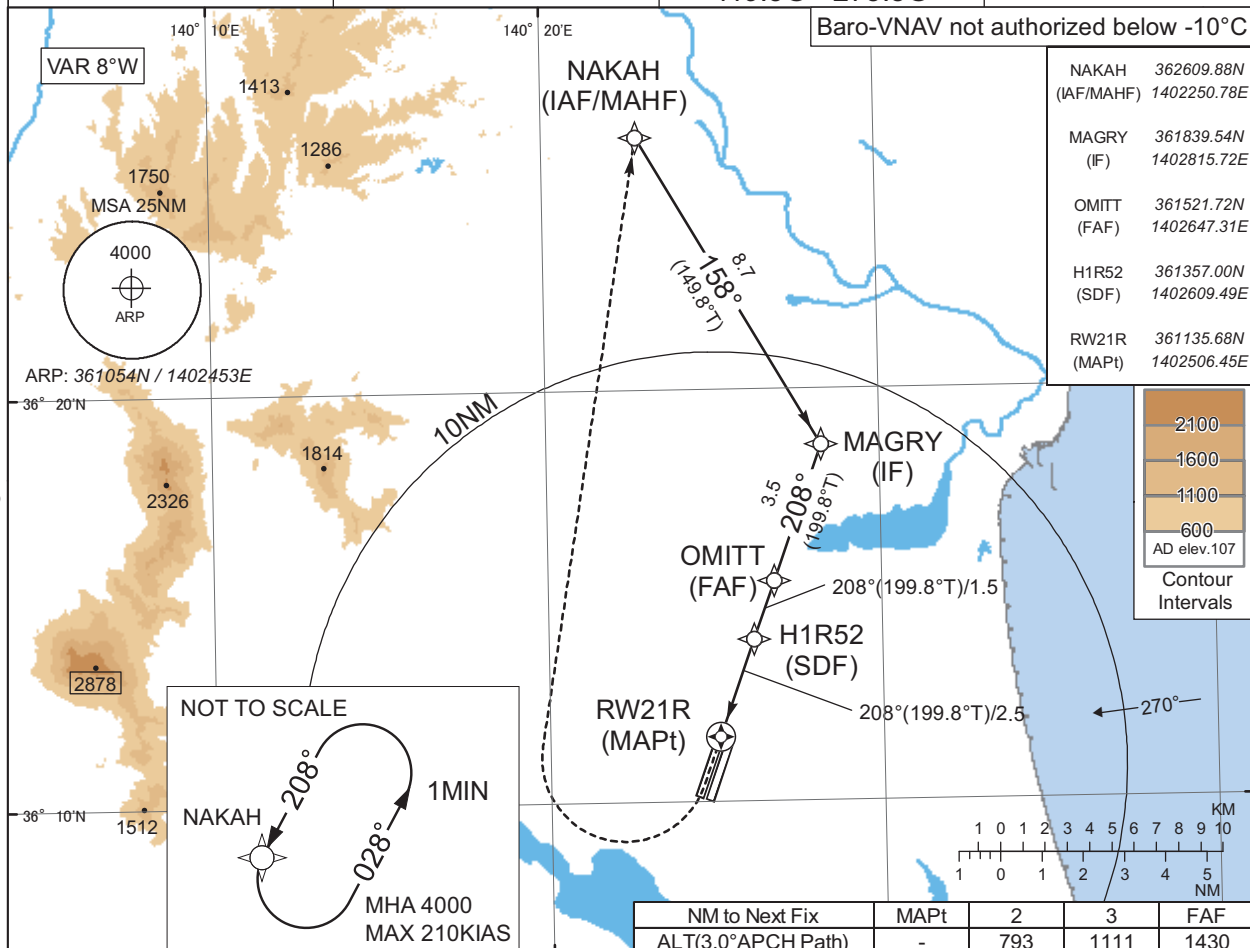
RJAH / HYAKURI

HYAKURI APP
120.1 - 123.875
305.7 - 362.3

RNP APCH

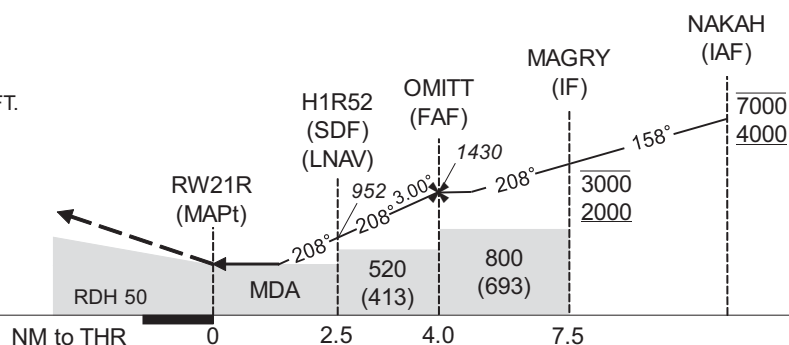
HYAKURI TWR
118.025 - 126.2
236.8 - 323.8
119.5G - 275.8G

RADAR AVBL



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)