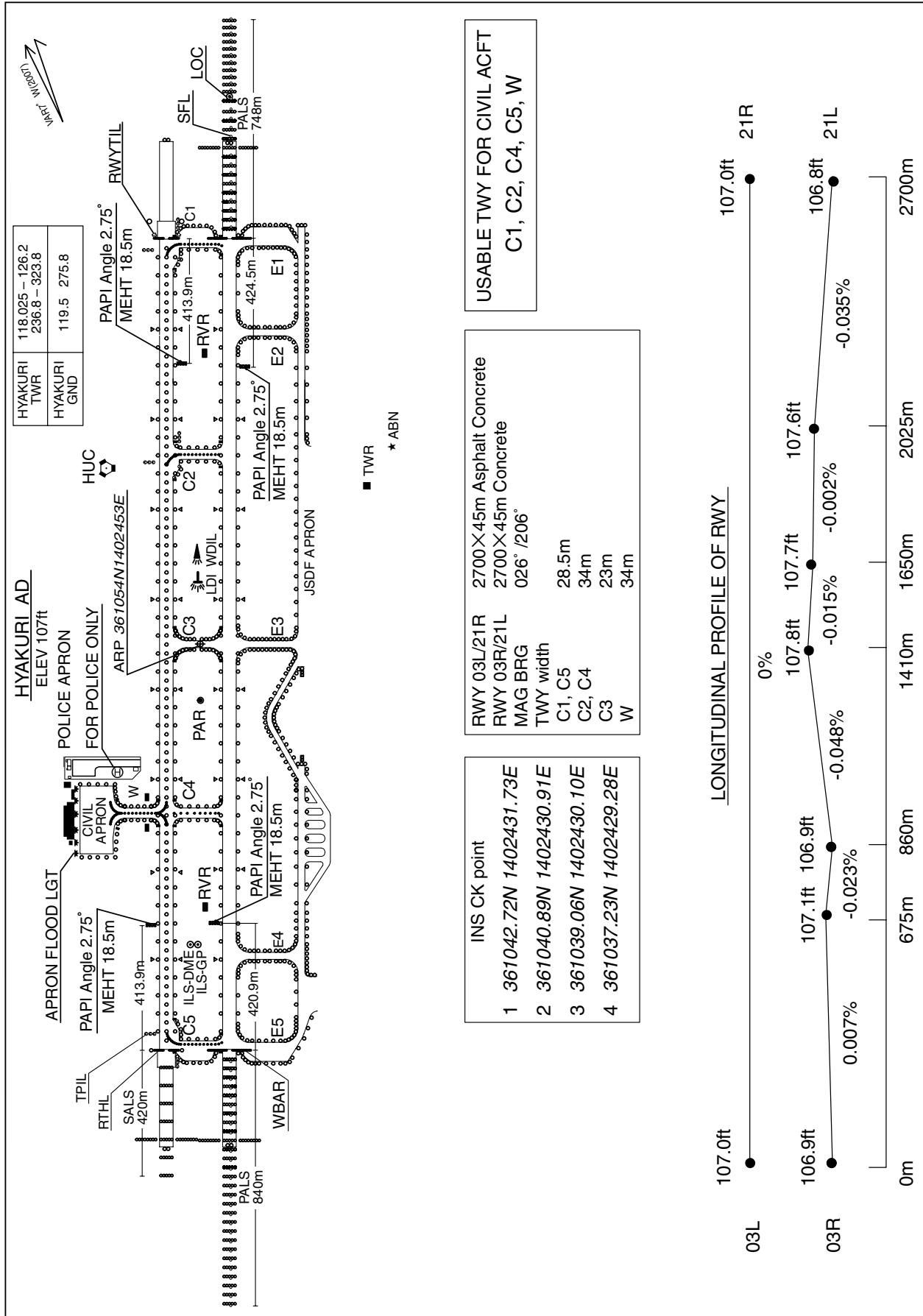
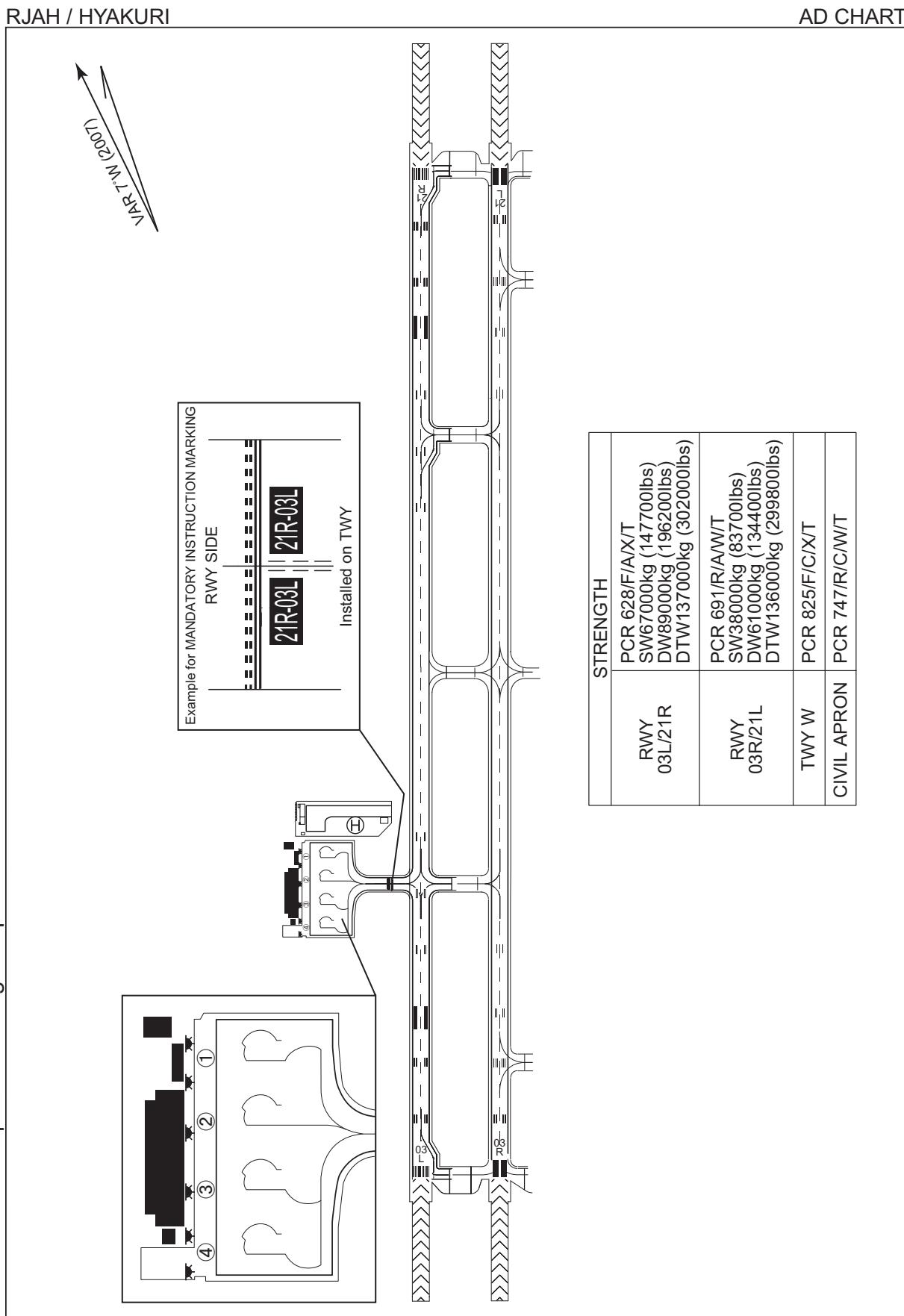


RJAH / HYAKURI

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

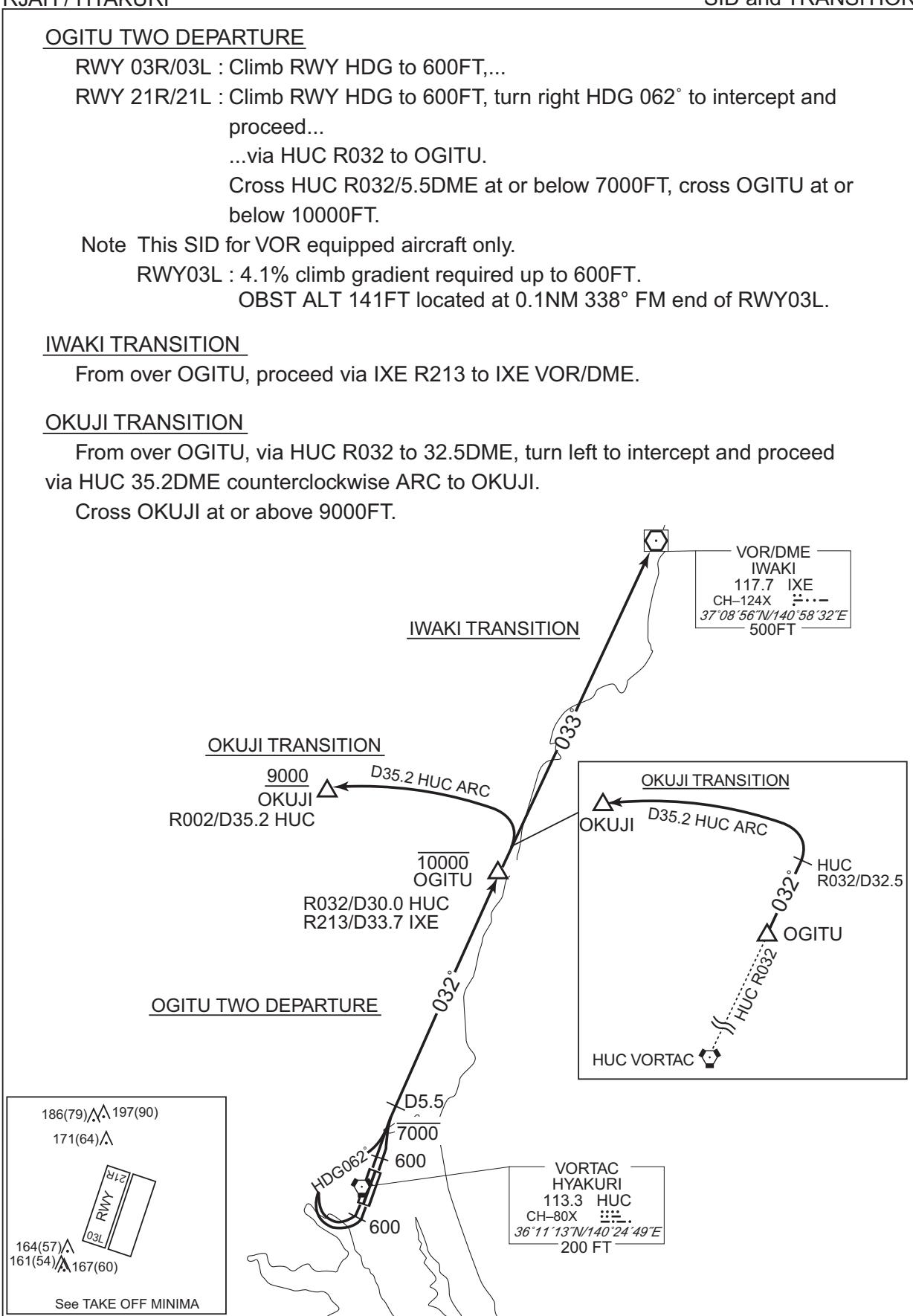
From over OGITU, proceed via IXE R213 to IXE VOR/DME.

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

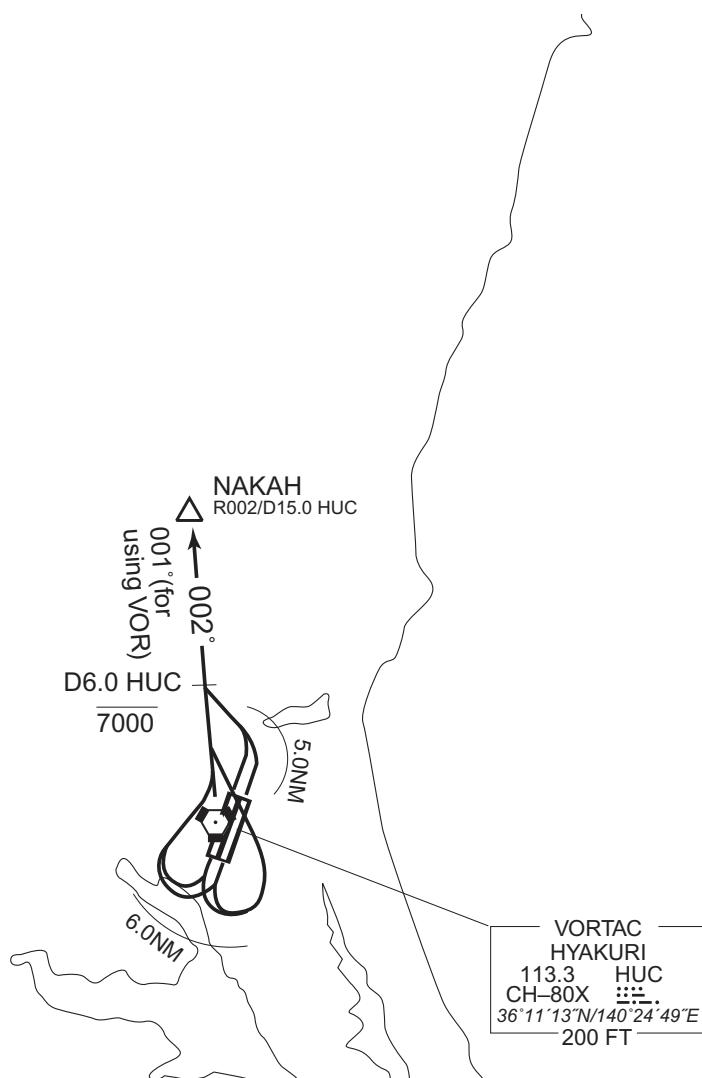
NAKAH FOUR DEPARTURE

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

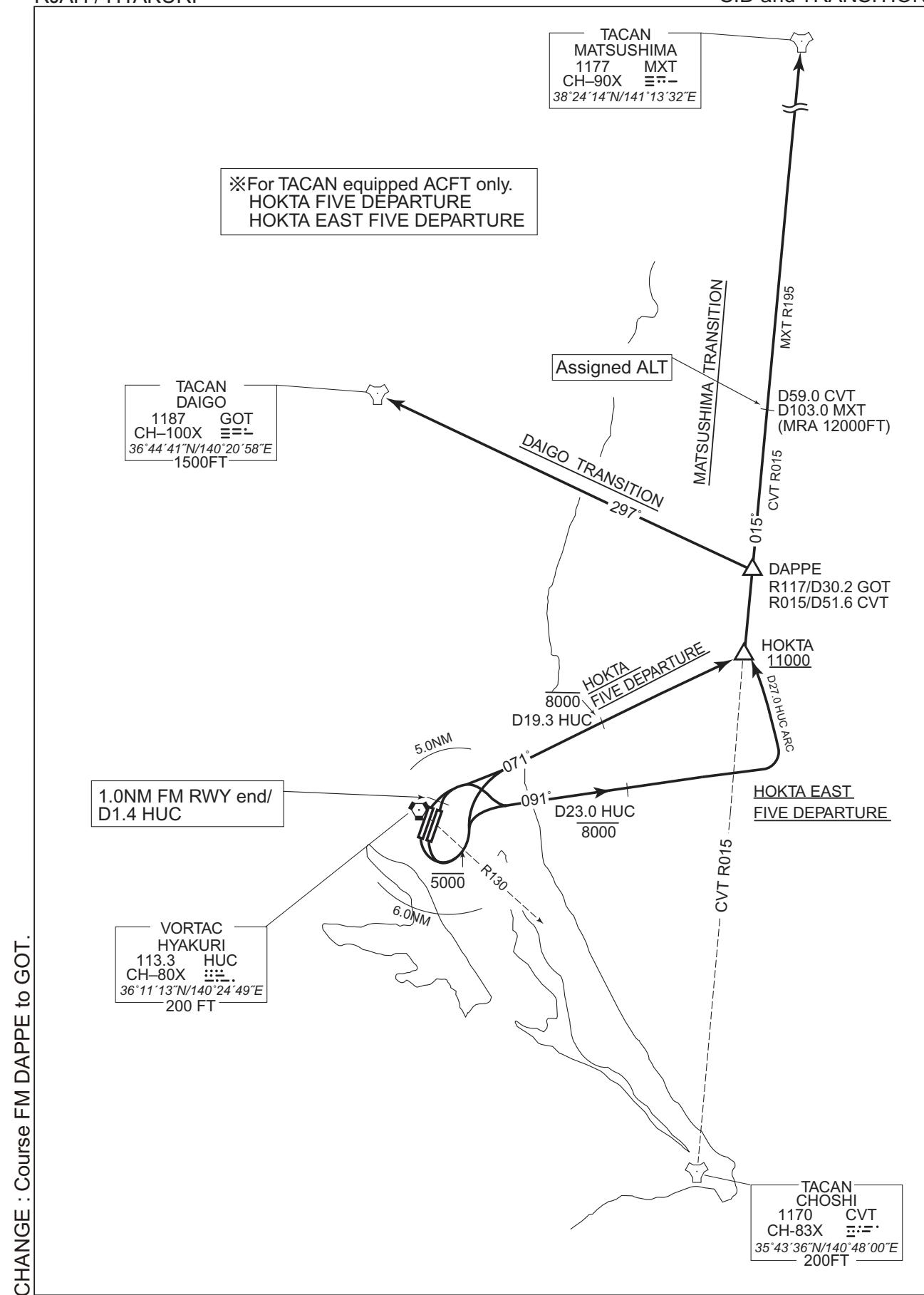
RJAH / HYAKURI	SID and TRANSITION
HOKTA FIVE DEPARTURE	
RWY 03R/03L : Climb via RWY HDG until 1.0NM from RWY end/HUC 1.4DME, turn right within 5.0NM....	
RWY 21R/21L : Turn left within 6.0NM....climb via HUC R071 to HOKTA. Cross HUC R071/19.3DME at or below 8000FT, cross HOKTA at or above 11000FT.	
Note1 : 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.

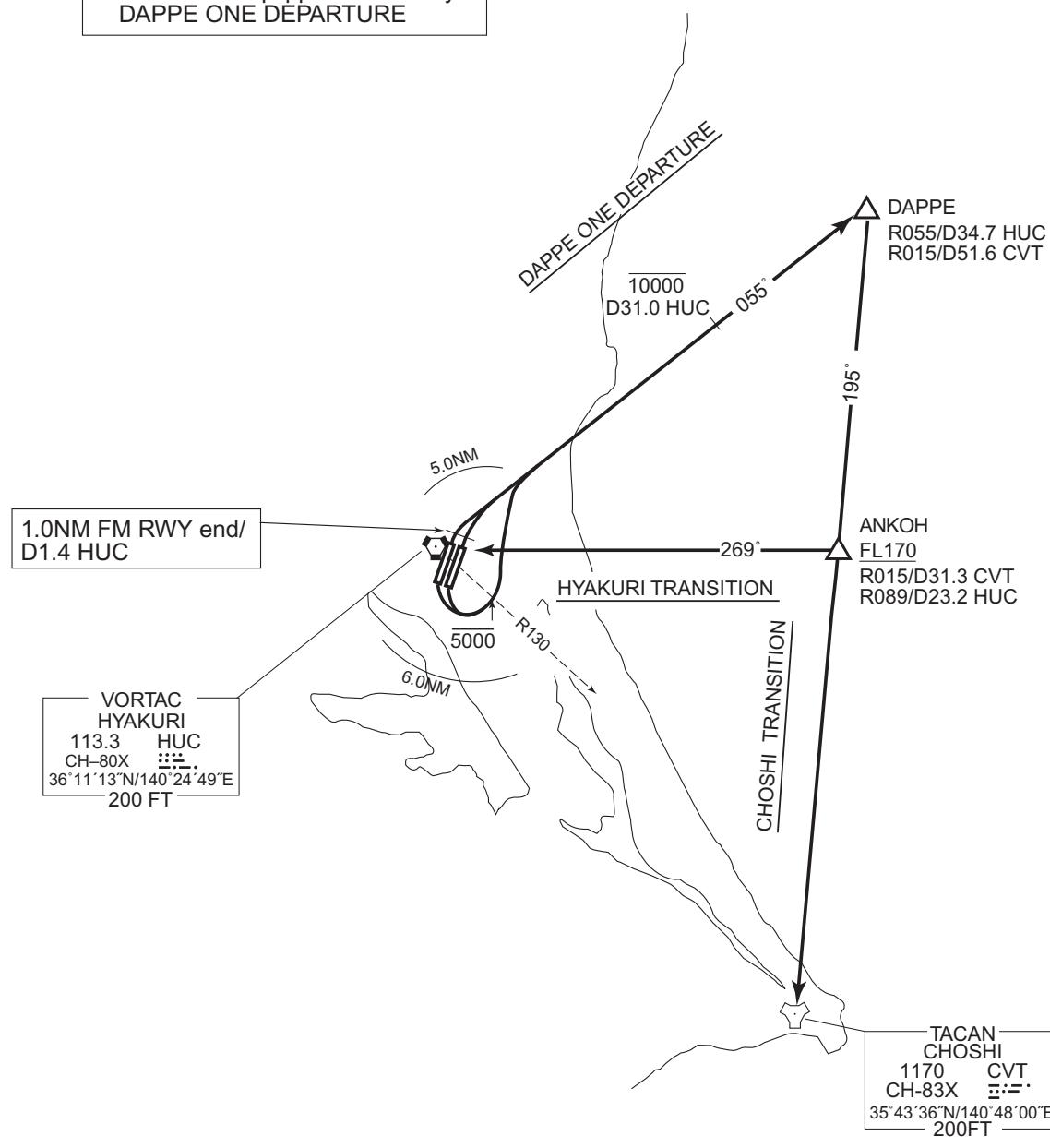
Cross ANKOH at or above FL170.

STANDARD DEPARTURE CHART - INSTRUMENT

RJAH / HYAKURI

SID and TRANSITION

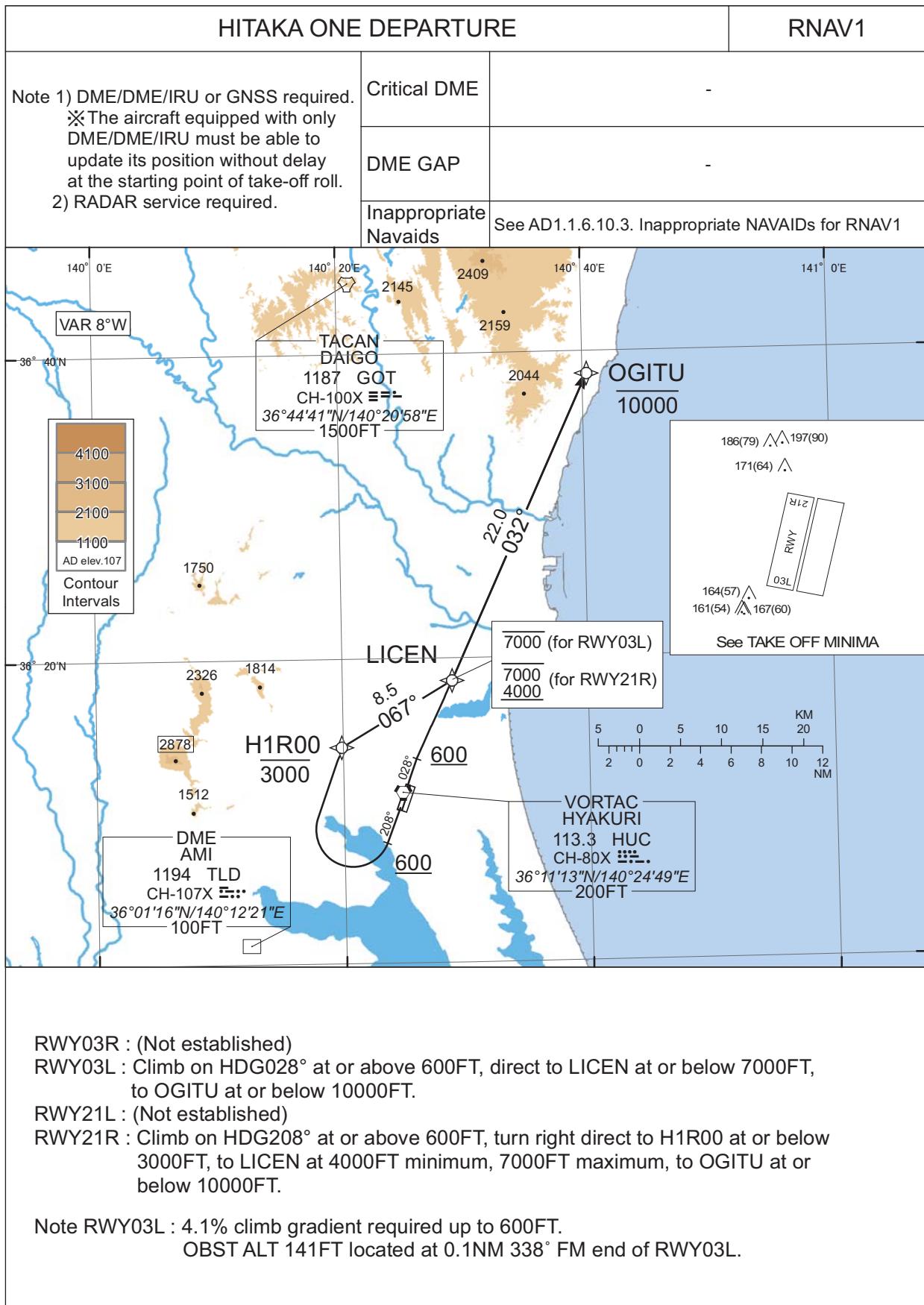
※For TACAN equipped ACFT only.
DAPPE ONE DEPARTURE



STANDARD DEPARTURE CHART - INSTRUMENT

RJAH / HYAKURI

RNAV SID



CHANGE : OBST.

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

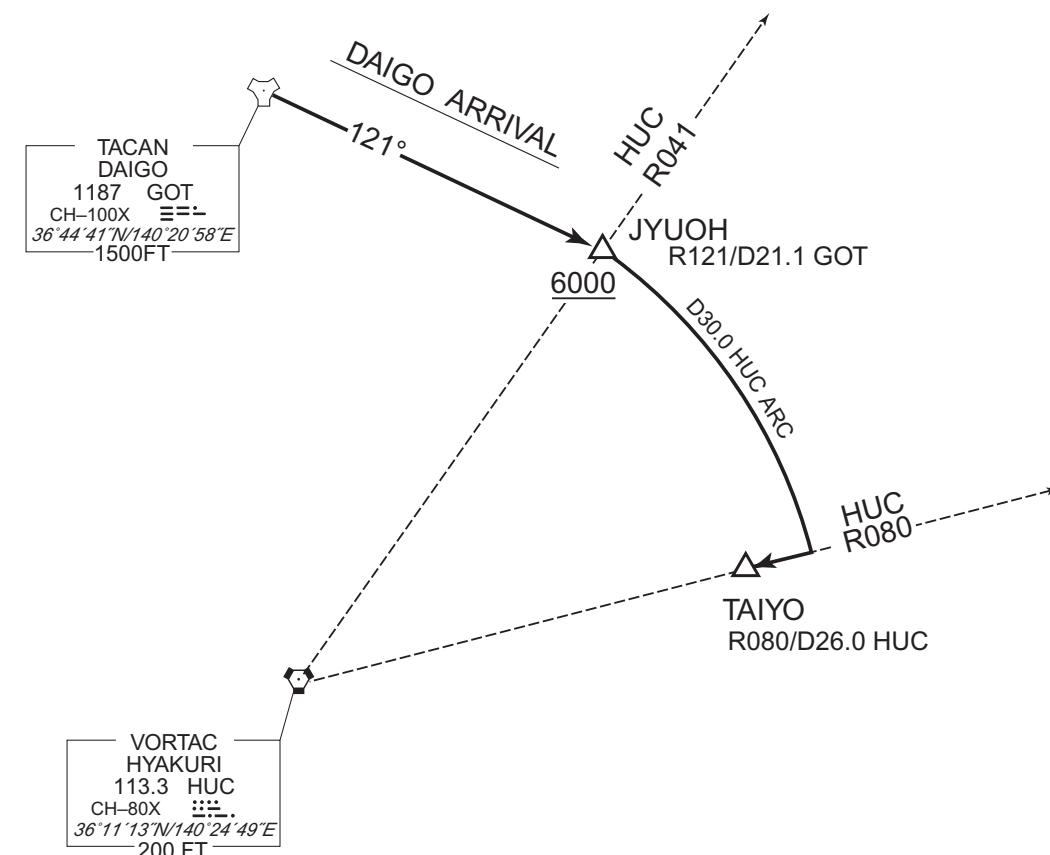
CHANGE : Waypoint Coordinates added.

STANDARD ARRIVAL CHART -INSTRUMENT

RJAH / HYAKURI

STAR

CHANGE : Course, DIST FM GOT to JYUOH.

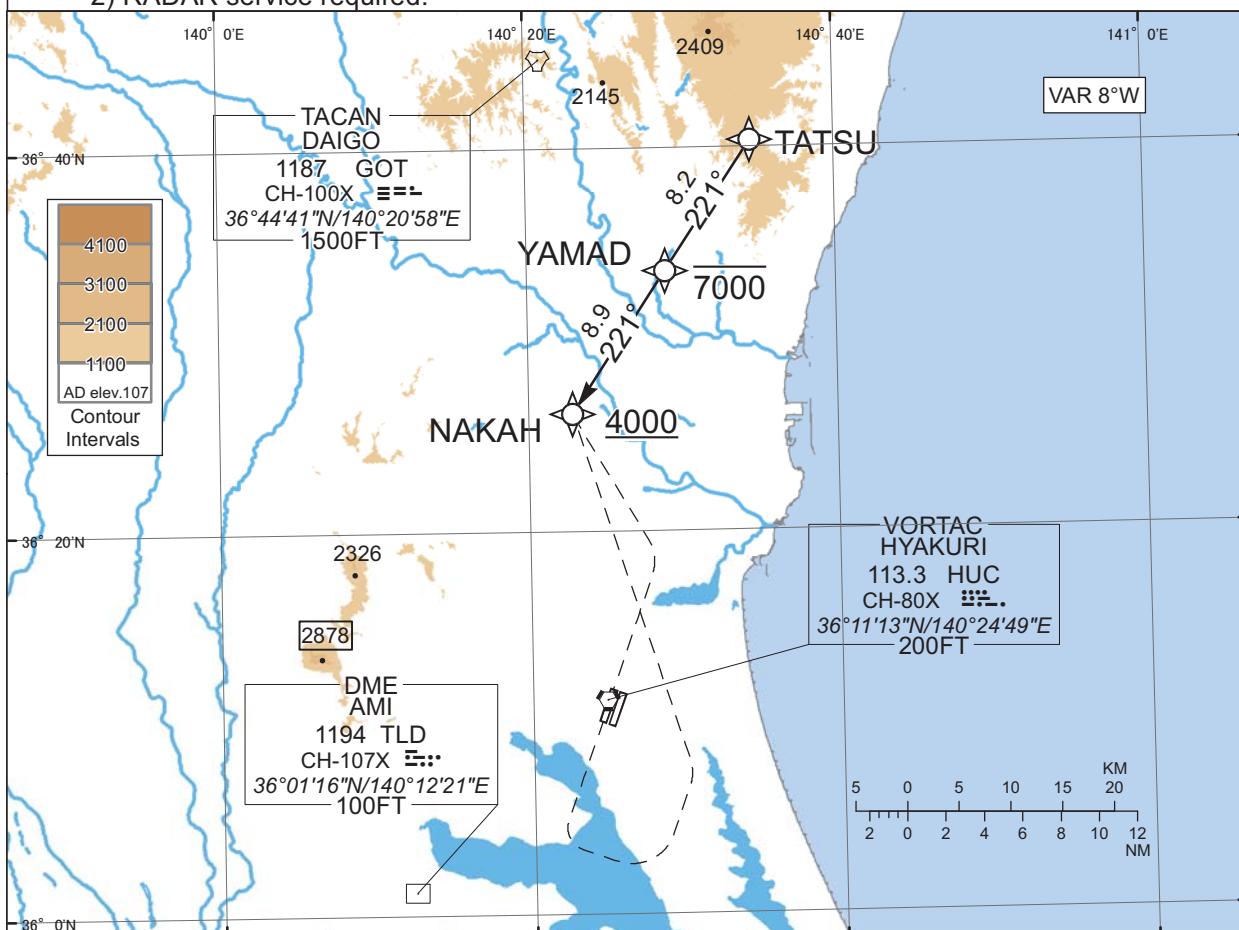


STANDARD ARRIVAL CHART -INSTRUMENT

RJAH / HYAKURI

TATSU ARRIVAL

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

RNAV STAR
RNAV1

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

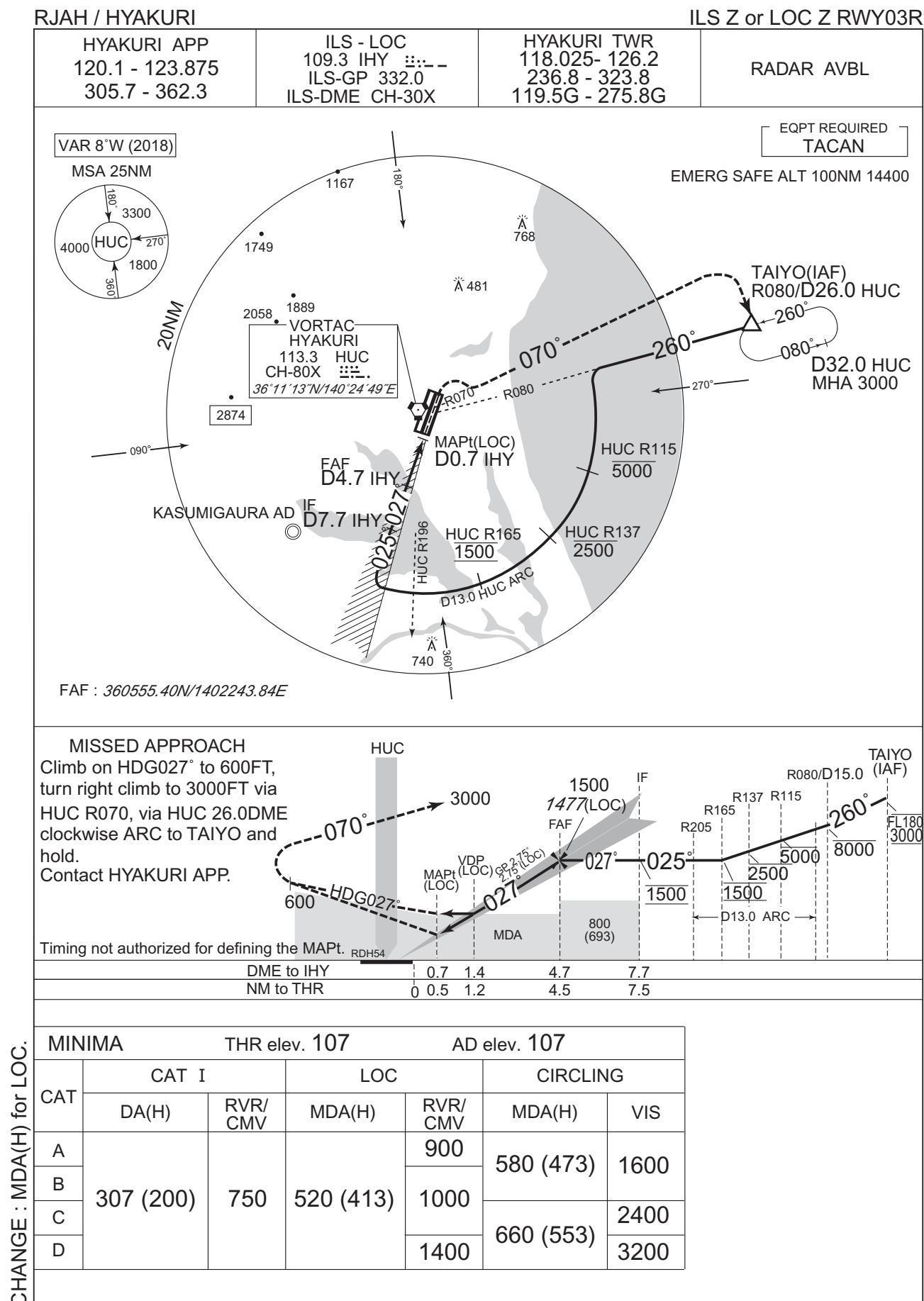
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	TATSU	-	-	-7.8	-	-	-	-	-	RNAV1
002	TF	YAMAD	-	221 (213.7)	-7.8	8.2	-	-7000	-	-	RNAV1
003	TF	NAKAH	-	221 (213.6)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

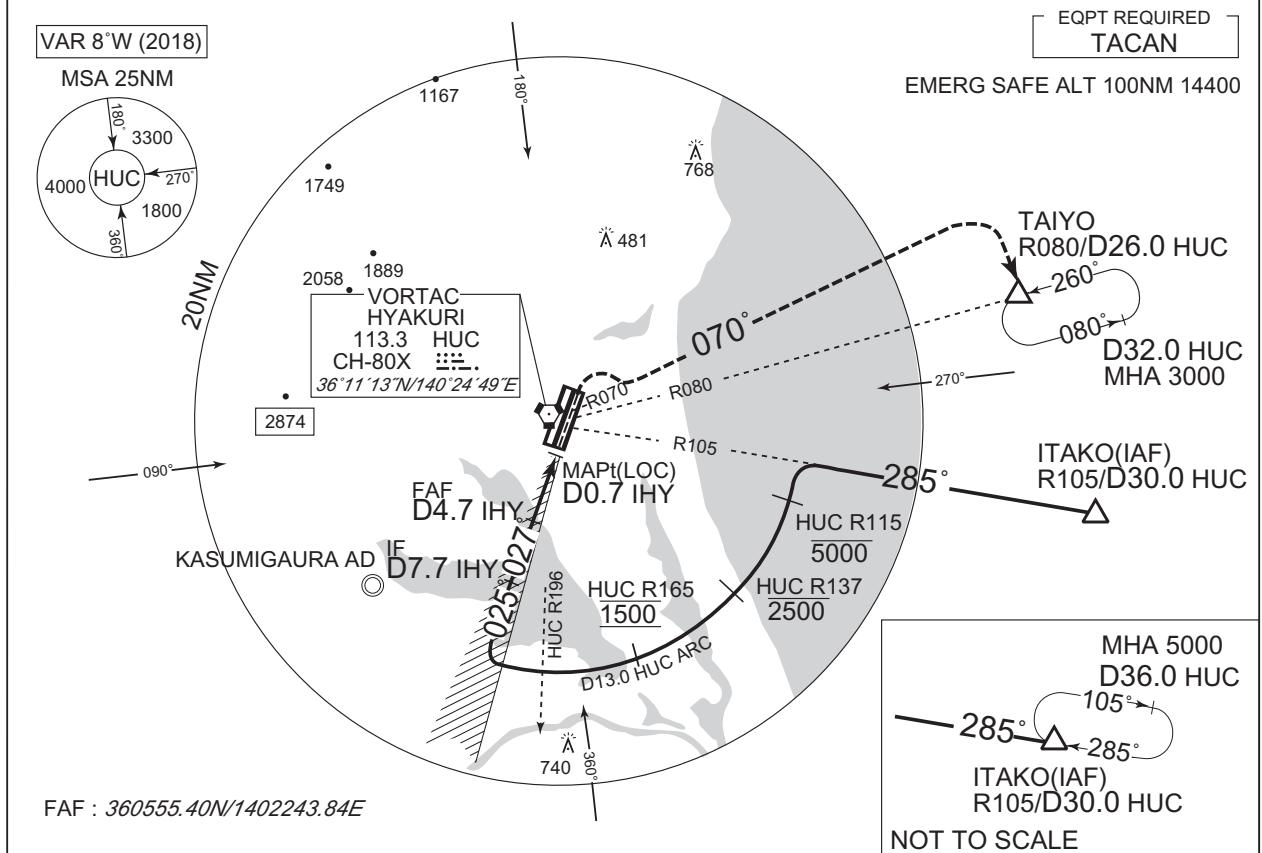


INSTRUMENT APPROACH CHART

RJAH / HYAKURI

ILS Y or LOC Y RWY03R

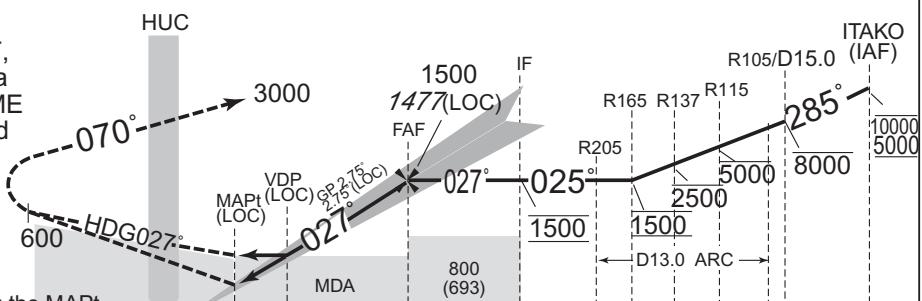
HYAKURI APP 120.1 - 123.875 305.7 - 362.3	ILS - LOC 109.3 IHY --- ILS-GP 332.0 ILS-DME CH-30X	HYAKURI TWR 118.025- 126.2 236.8 - 323.8 119.5G - 275.8G	RADAR AVBL
---	--	---	------------



MISSSED 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 t

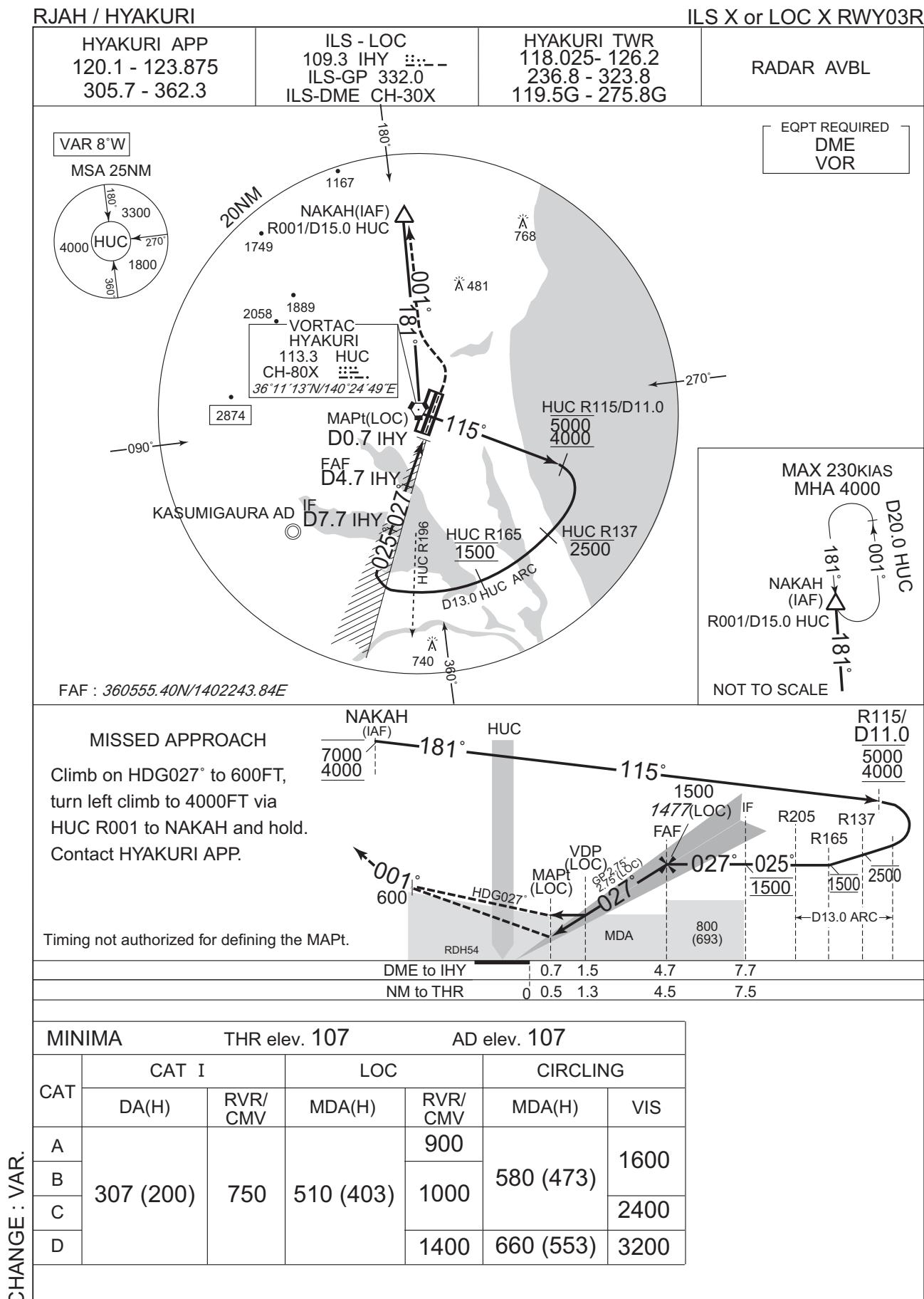


DME to IHY	0.7	1.4	4.7	7.7
NM to THR	0.05	1.2	4.5	7.5

CHANGE : MDA(H) for LOC.

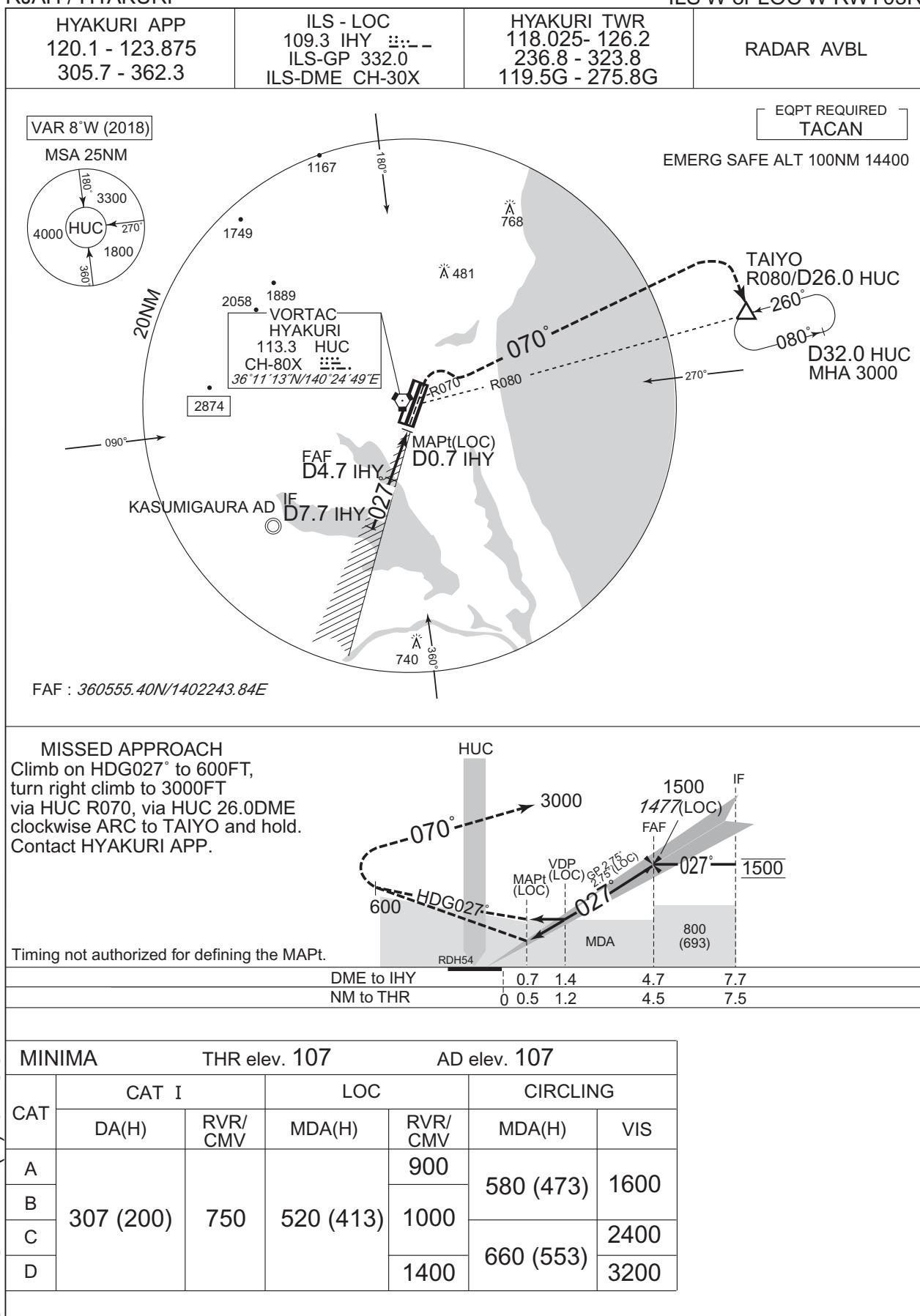
MINIMA		THR elev. 107		AD elev. 107		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	307 (200)	750	520 (413)	900	580 (473)	1600
B				1000		2400
C				1400	660 (553)	3200
D						

INSTRUMENT APPROACH CHART

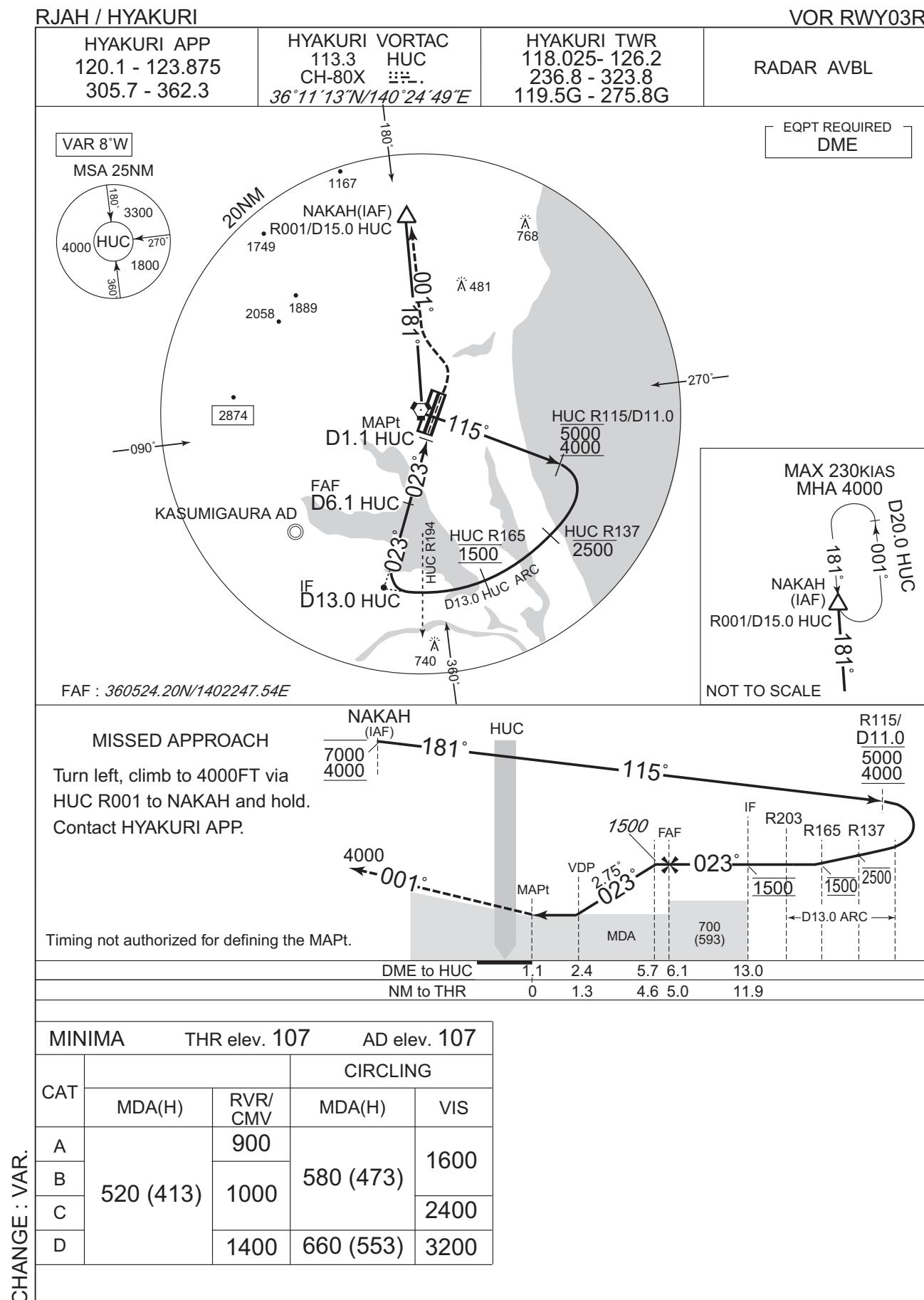


INSTRUMENT APPROACH CHART

RJAH / HYAKURI



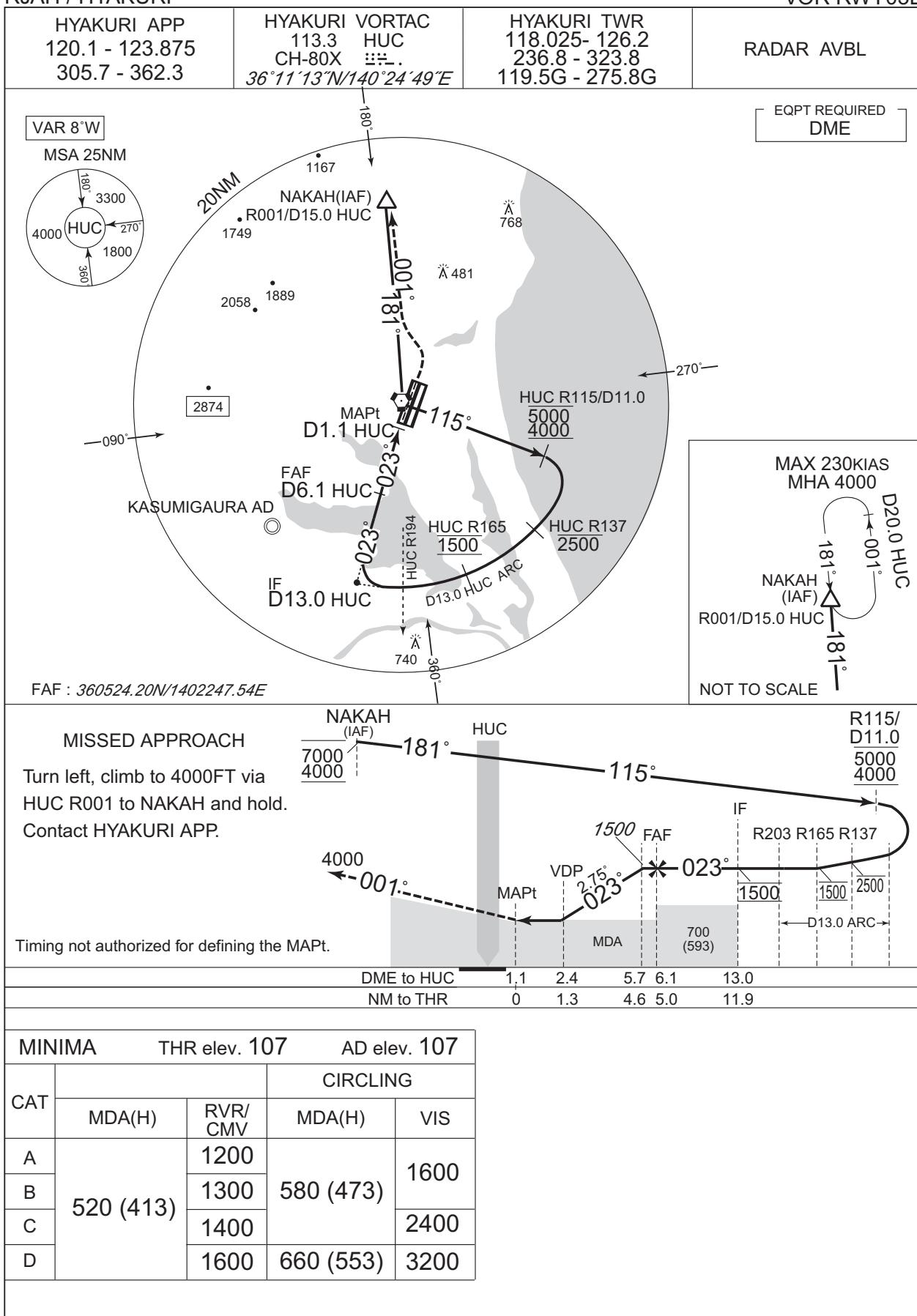
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJAH / HYAKURI

VOR RWY03L



INSTRUMENT APPROACH CHART

RJAH / HYAKURI

HYAKURI APP
120.1 - 123.875
305.7 - 362.3

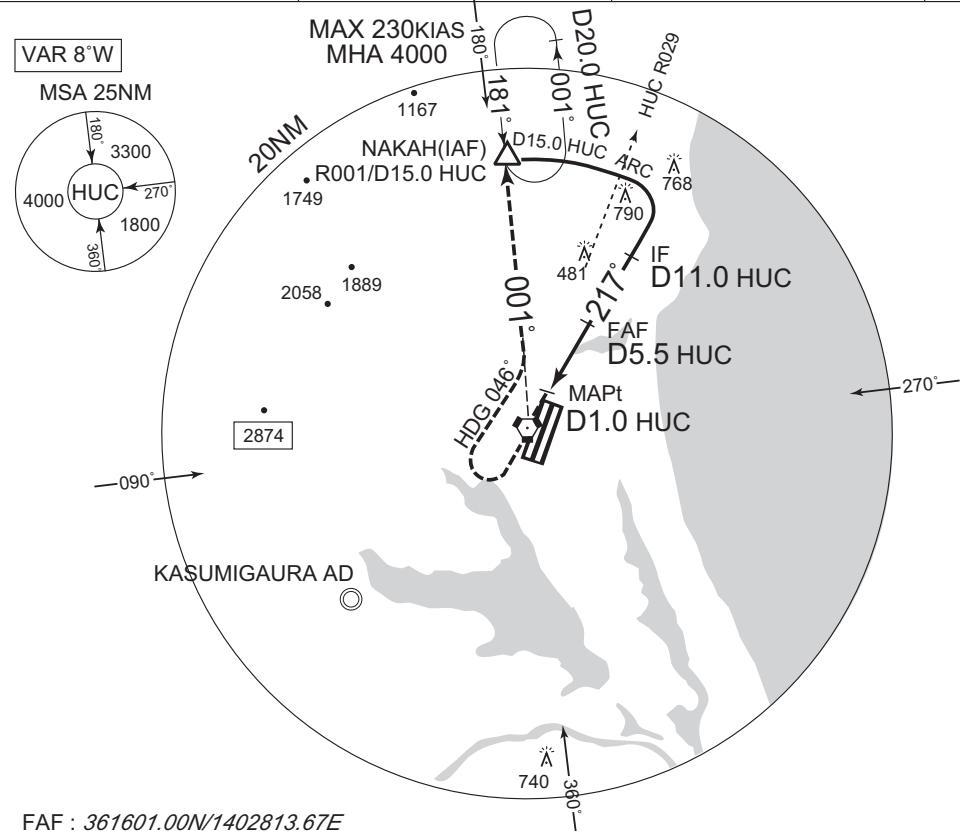
HYAKURI VORTAC
113.3 HUC
CH-80X 三三.
26°11'13"N/110°21'19"E

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

VOR RWY21L

RADAR AVBL

EQPT REQUIRED
DME

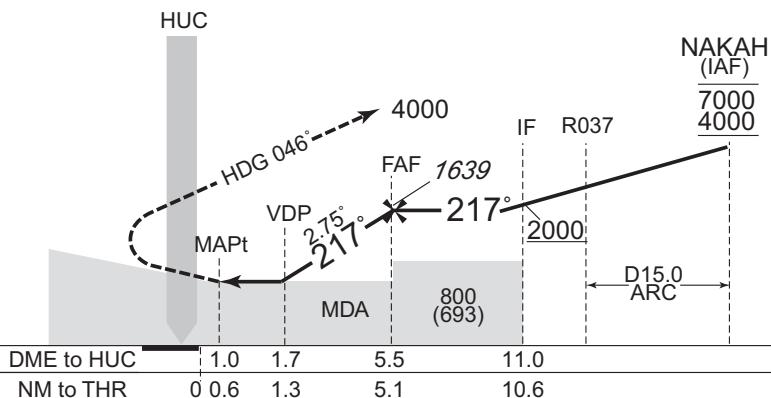


CHANGE : VAR. DME to HUC, NM to THR at VDP. MDA(H) for CAT A,B,C.

MISSED APPROACH

Turn right, climb on HDG 046° to intercept and proceed via HUC R001 to NAKAH and hold at 4000FT. Contact HYAKURI APP.

Timing not authorized for defining the MAPt

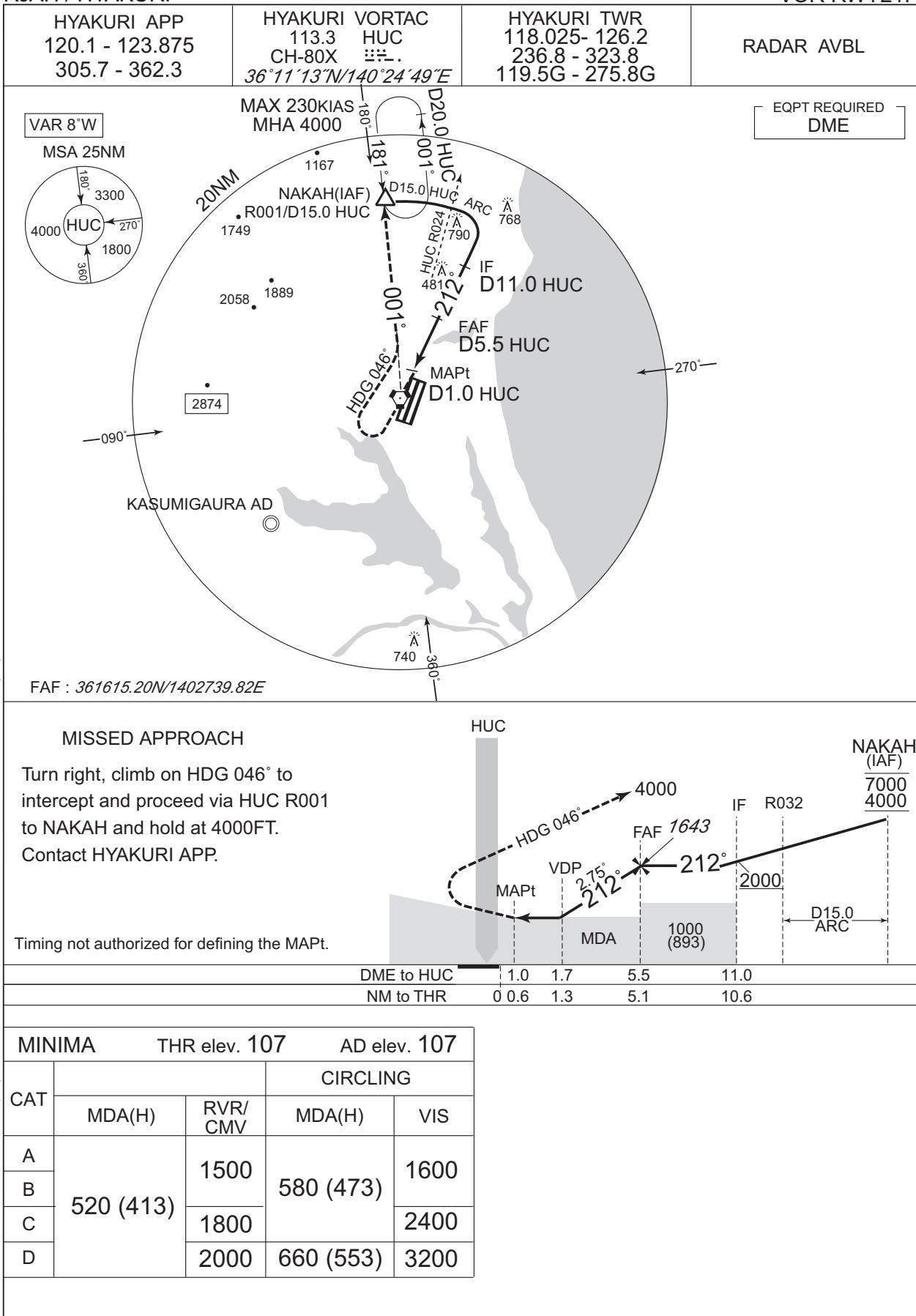


MINIMA		THR elev. 107	AD elev. 107	
CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	520 (413)	900	580 (473)	1600
B		1000		2400
C				
D	540 (433)	1400	660 (553)	3200

INSTRUMENT APPROACH CHART

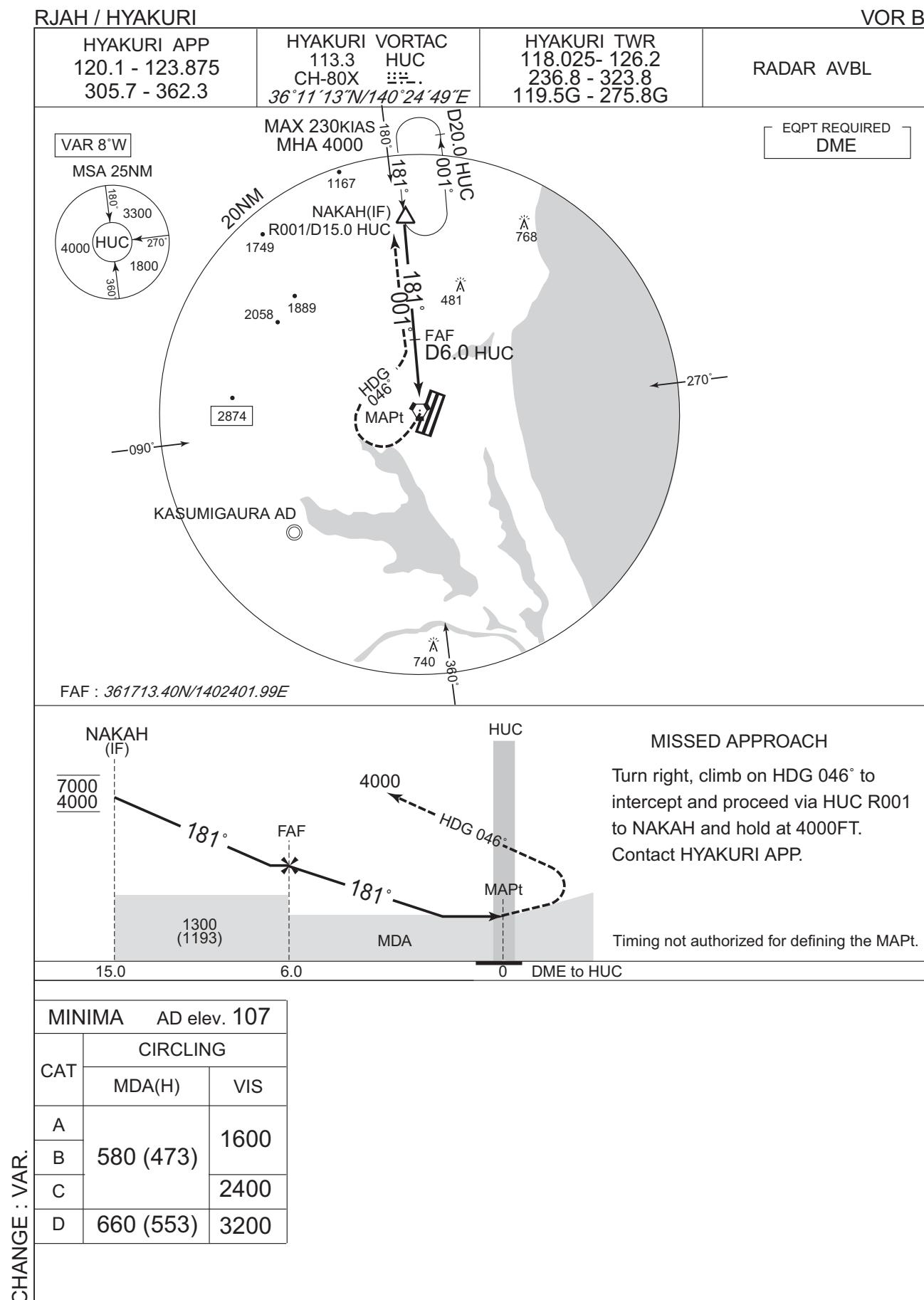
RJAH / HYAKURI

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

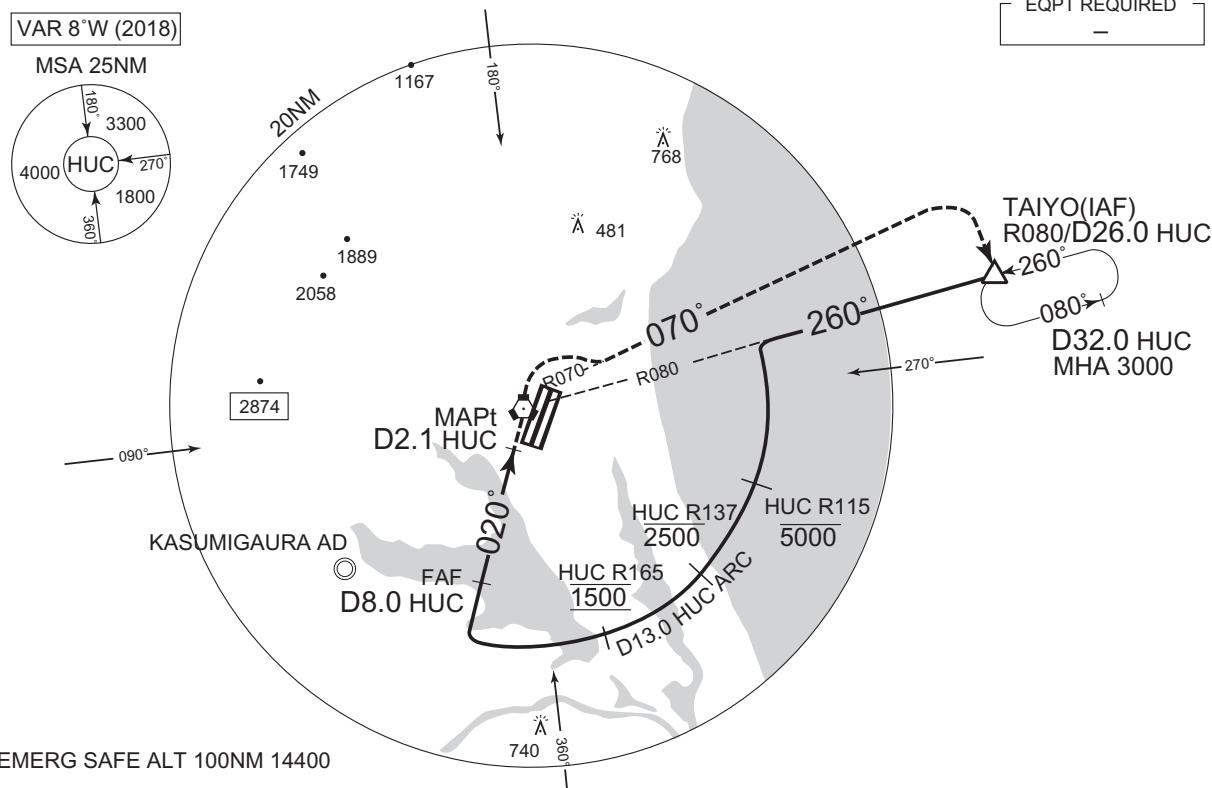
HYAKURI VORTAC
113.3 HUC CH-80X
6°11'13"N/140°21'19"E

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

TACAN Z RWY03R

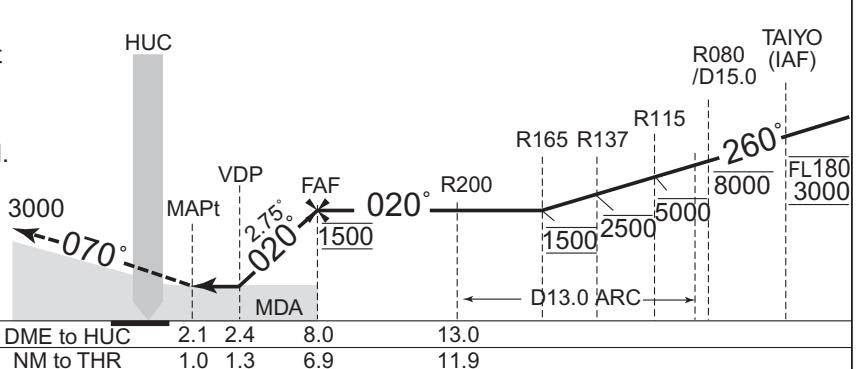
VAR 8°W (2018)

EQPT REQUIRED



MISSED APPROACH

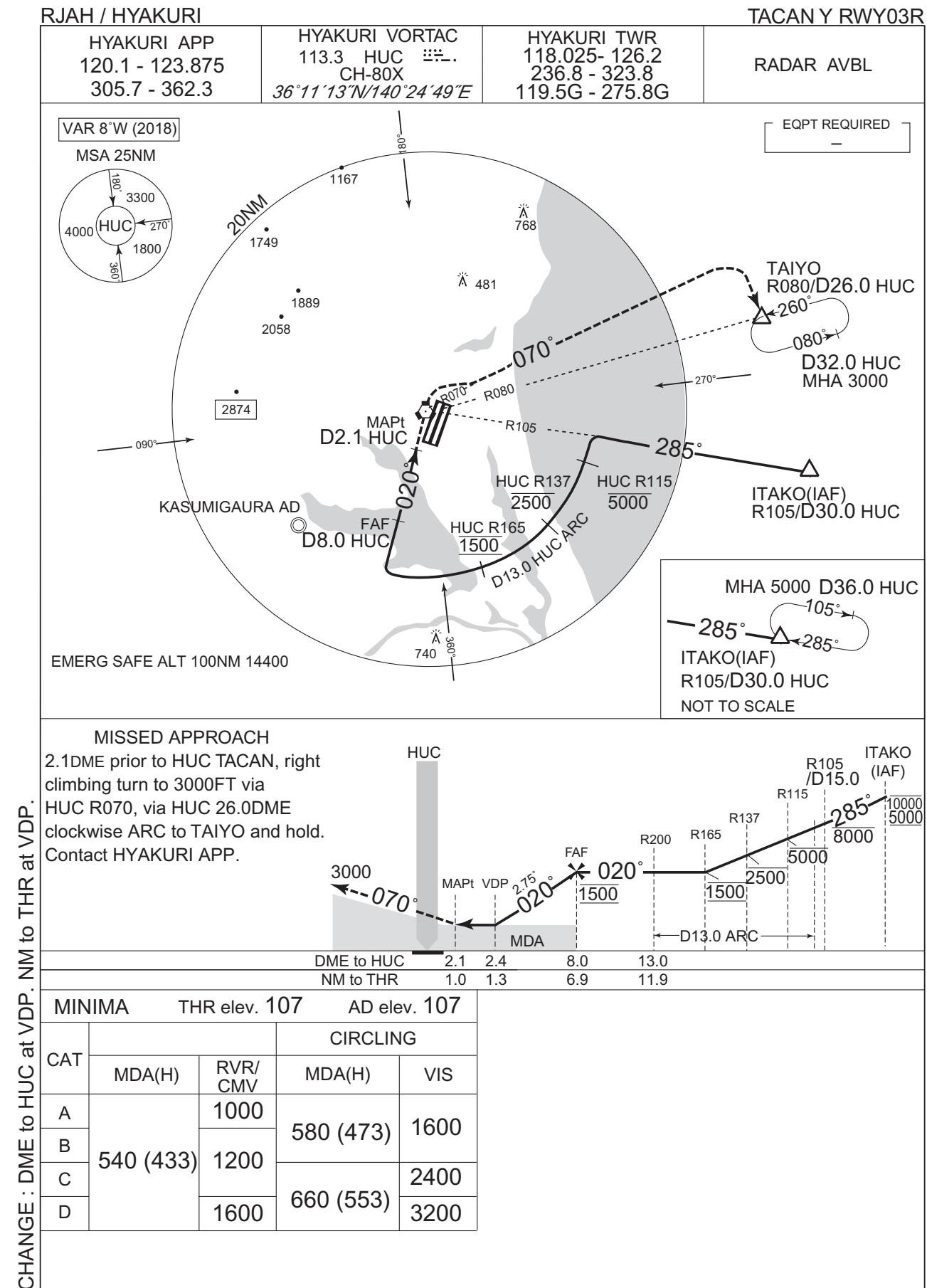
2.1DME prior to HUC TACAN, right climbing turn to 3000FT via HUC R070, via HUC 26.0DME clockwise ARC to TAIYO and hold. Contact HYAKI IRI APP



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

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		2400
C		1600	660 (553)	3200
D				

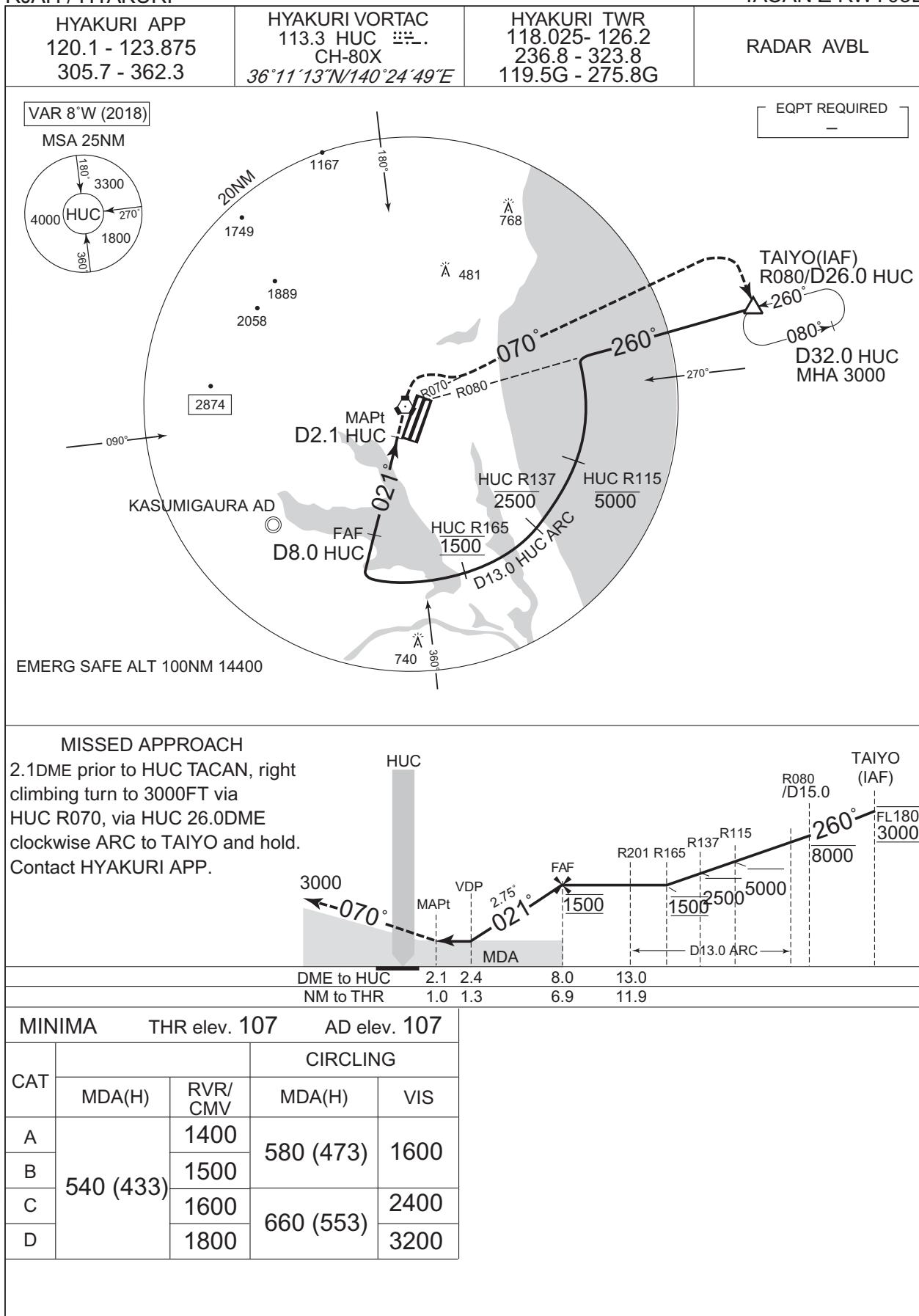
INSTRUMENT APPROACH CHART



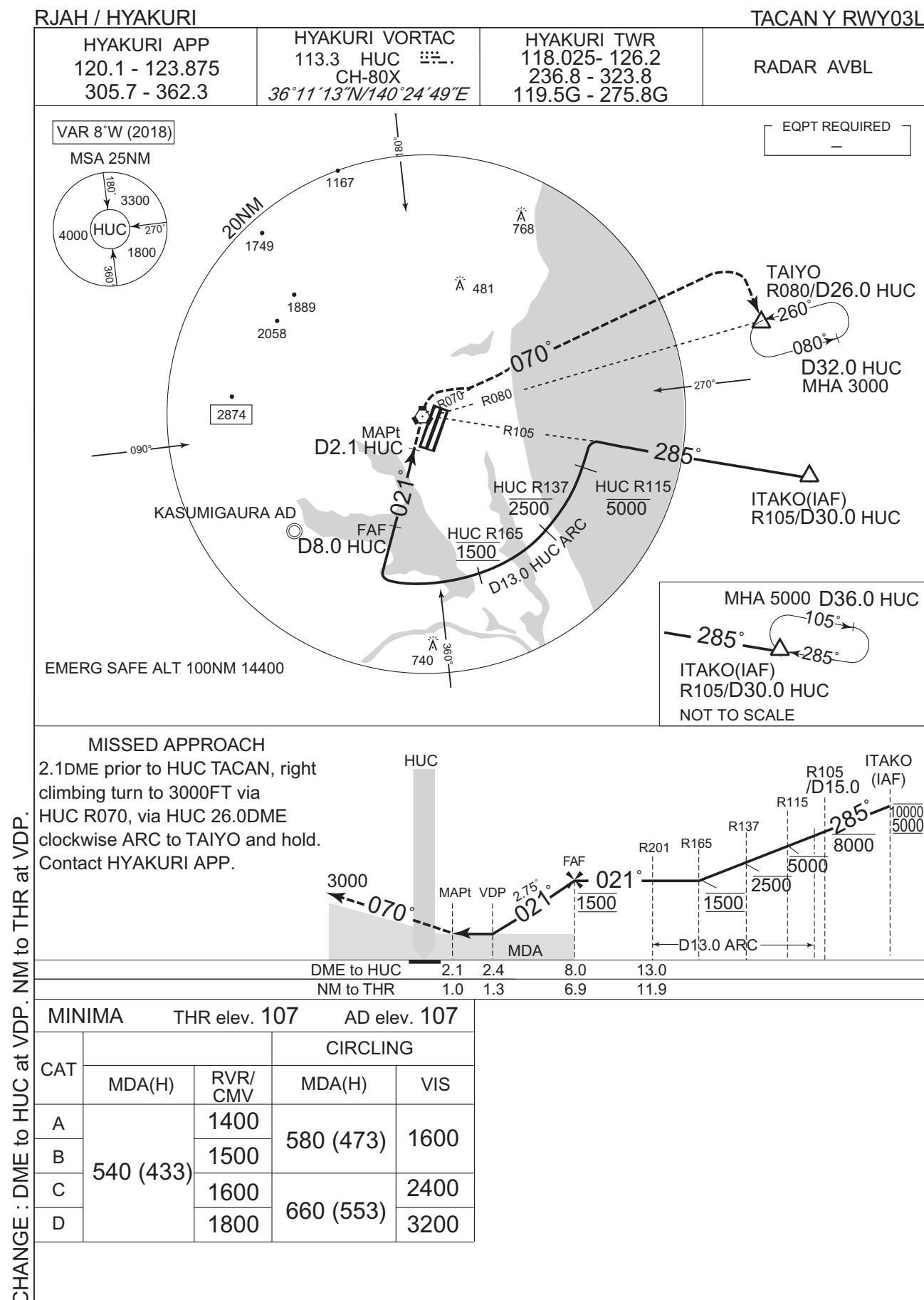
INSTRUMENT APPROACH CHART

RJAH / HYAKURI

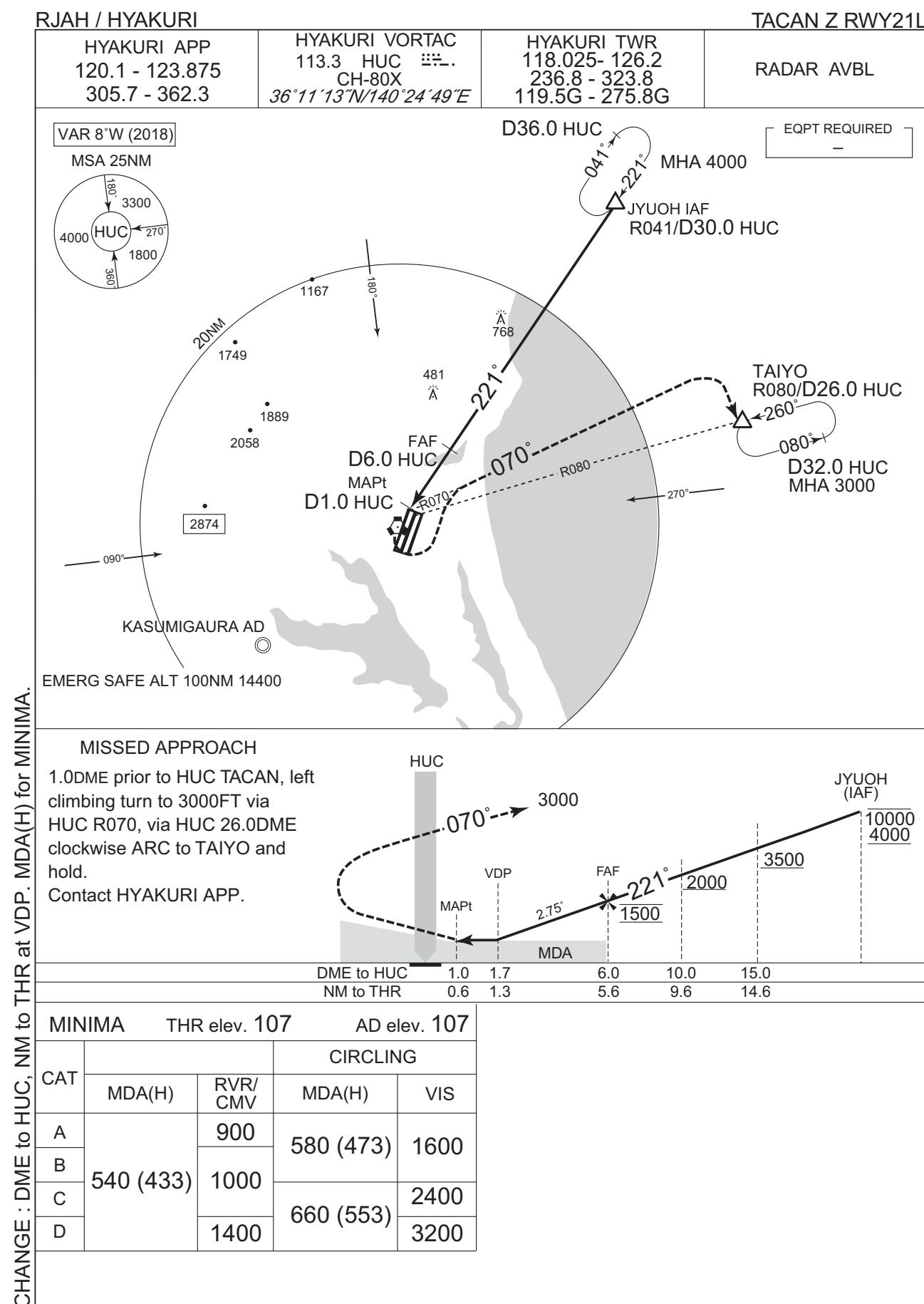
TACAN Z RWY03L



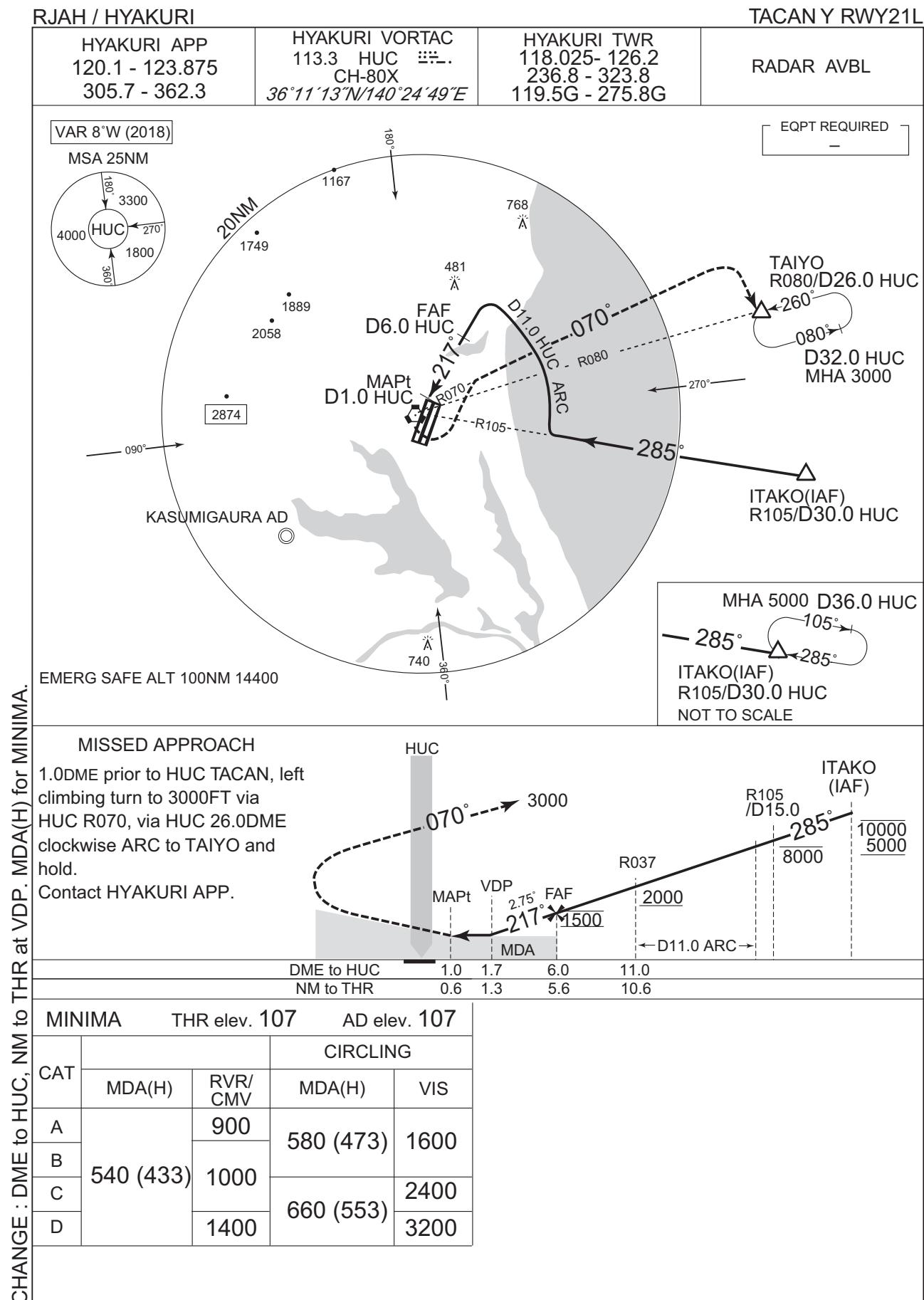
INSTRUMENT APPROACH CHART



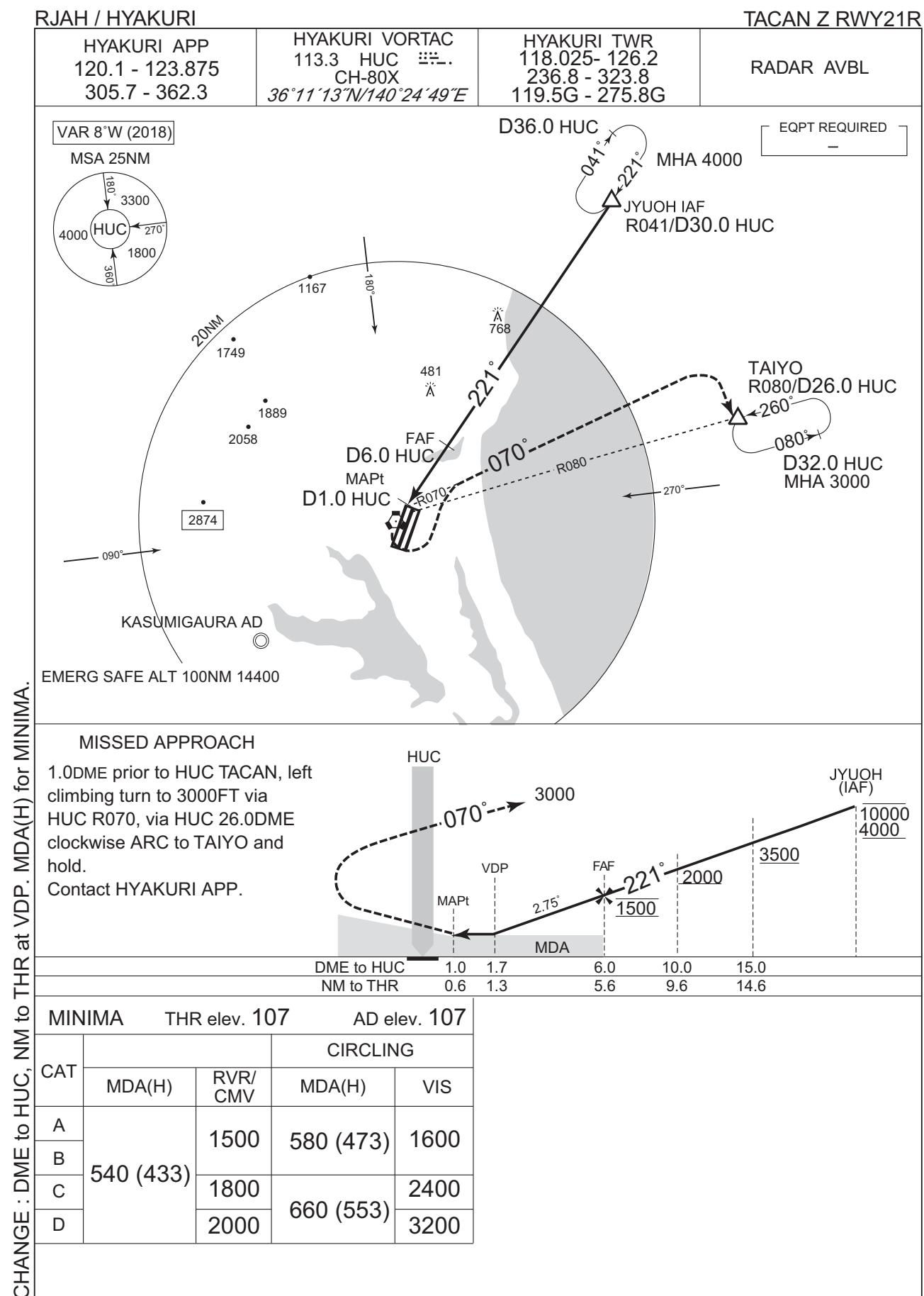
INSTRUMENT APPROACH CHART



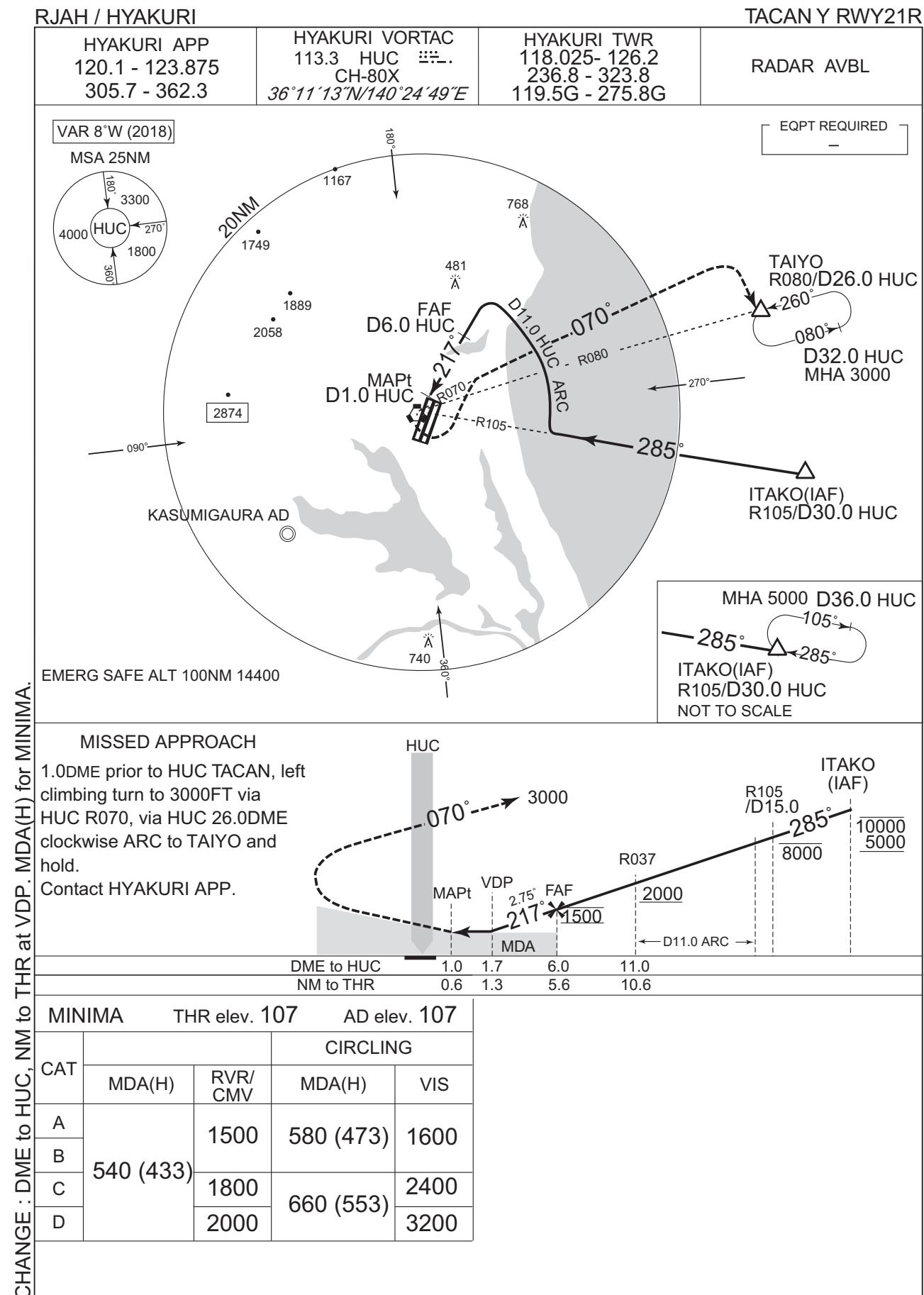
INSTRUMENT APPROACH CHART



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
 $36^{\circ}11'13''N/140^{\circ}24'49''E$

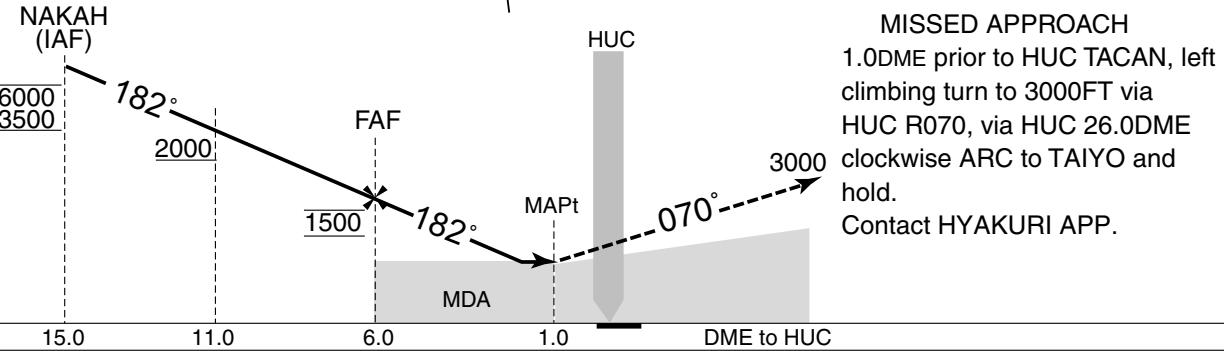
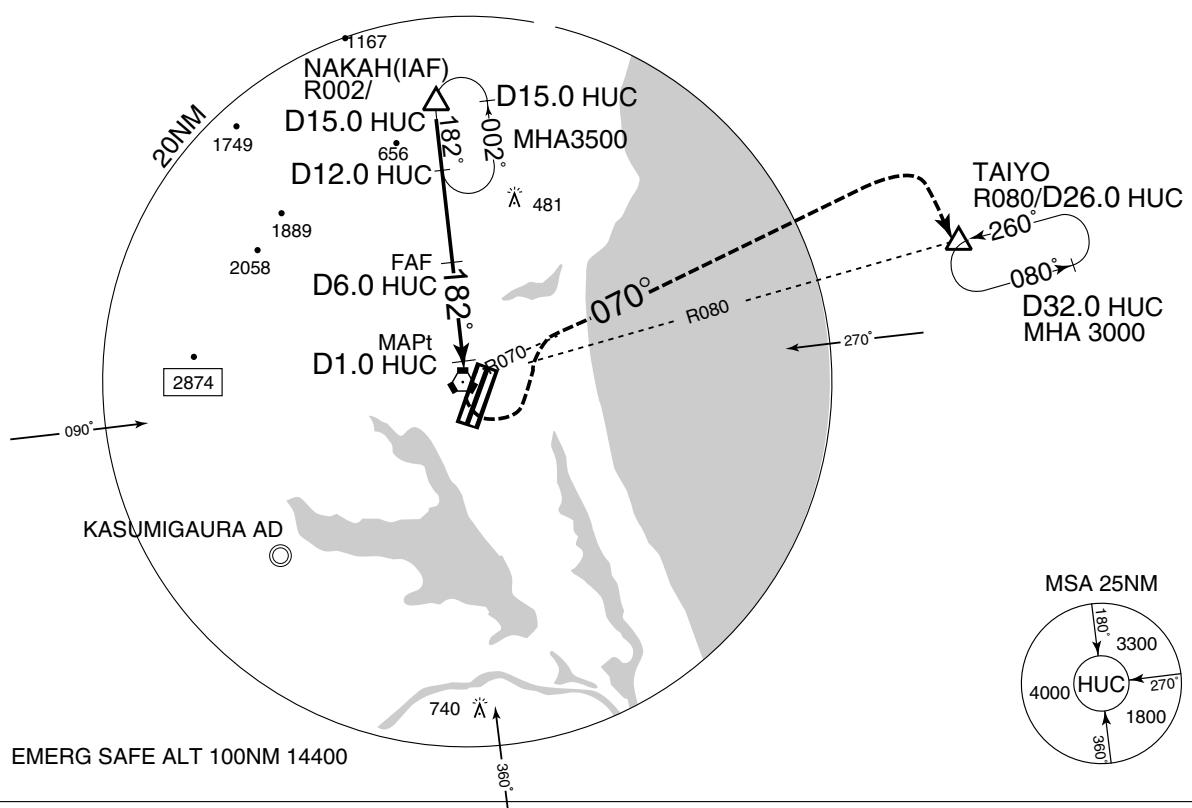
HYAKURI TWR
118.025- 126.2
236.8 - 323.8
119.5G - 275.8G

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°

028°(019.8°T)/1.5

028°(019.8°T)/1.5

028°(019.8°T)/1.5

MAX 200KIAS

298° (290.0T)

5.4

3.8

3.8

208°

028°

NOT TO SCALE

1MIN

MHA 4000
MAX 210KIAS

NAKAH

140° 20'E

140° 30'E

140° 40'E

70NM

170° (162.2°T)

15.8°

3.9°

3.9° (29.3°T)

208° (199.8°T)

5.7°

WAZKI (FAF)

H3L50

H3L51

TOMOE

SUMIG (IF)

MEGAT

RW03L (MAPt)

Contour Intervals

2100
1600
1100
600
AD elev.107

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

KM

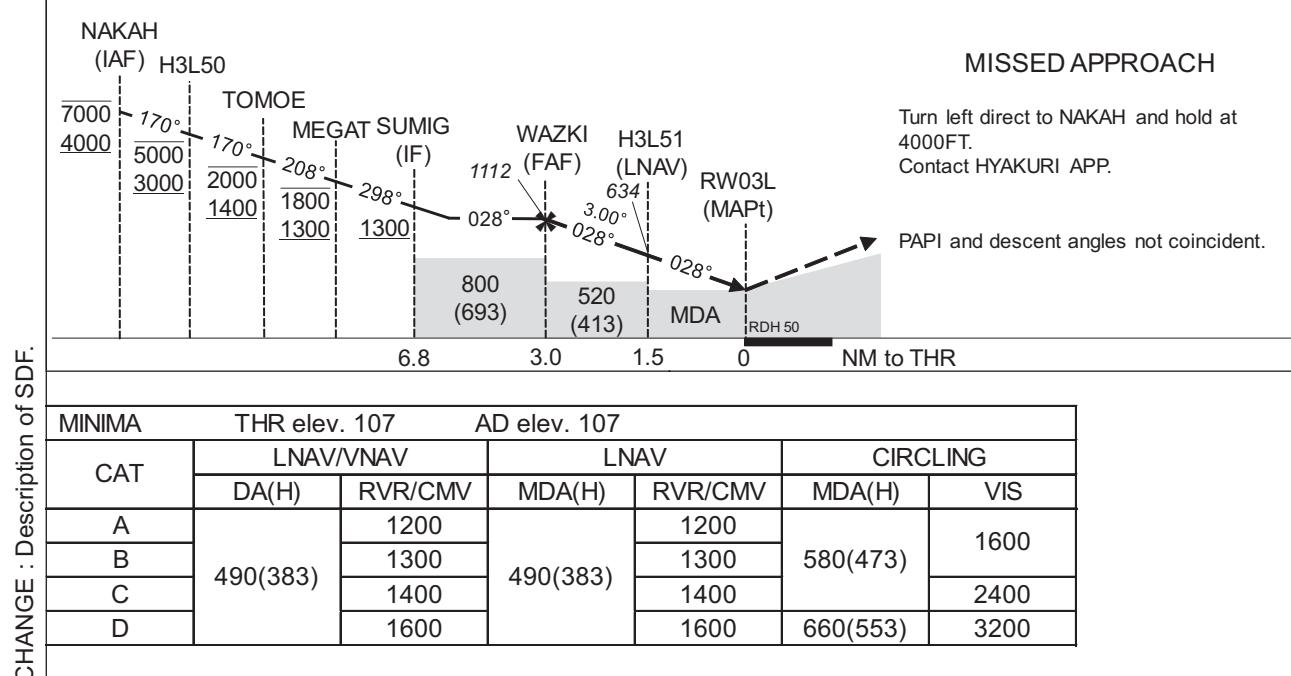
NM

NM to Next Fix

FAF 2 MAPt

ALT T (3.0°APCH Path)

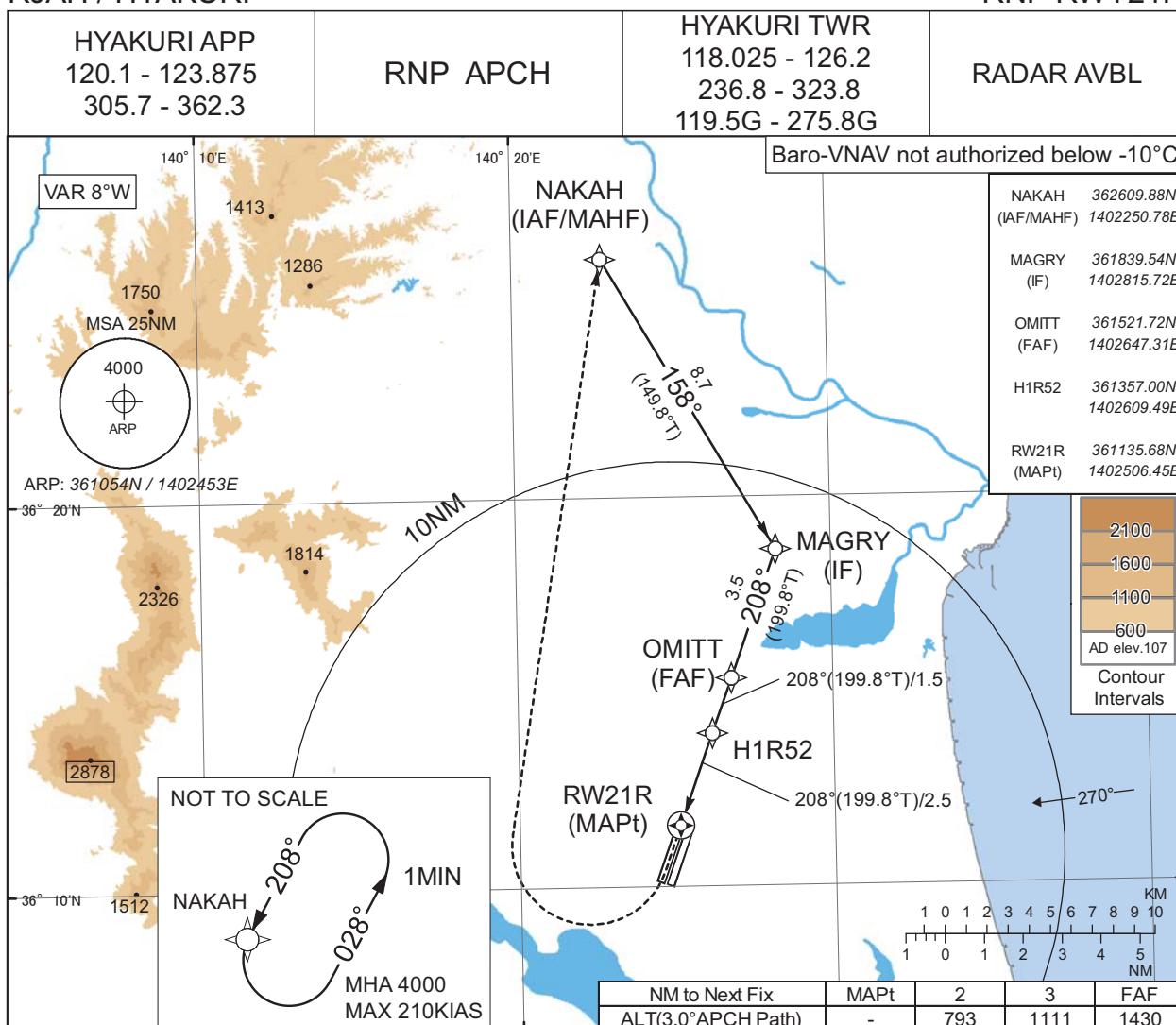
1112 793



INSTRUMENT APPROACH CHART

RJAH / HYAKURI

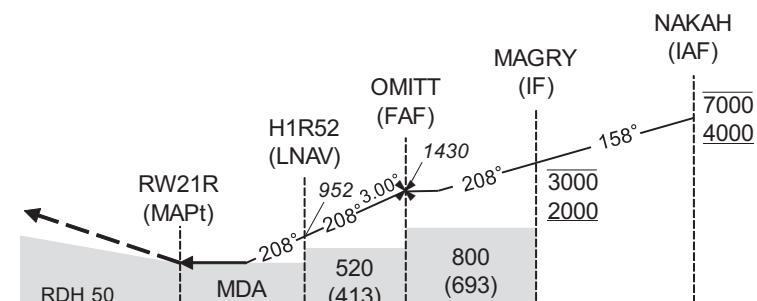
RNP RWY21R



MISSSED APPROACH

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

PAPI and descent angles not coincident.



NM to THR 0 2.5 4.0 7.5

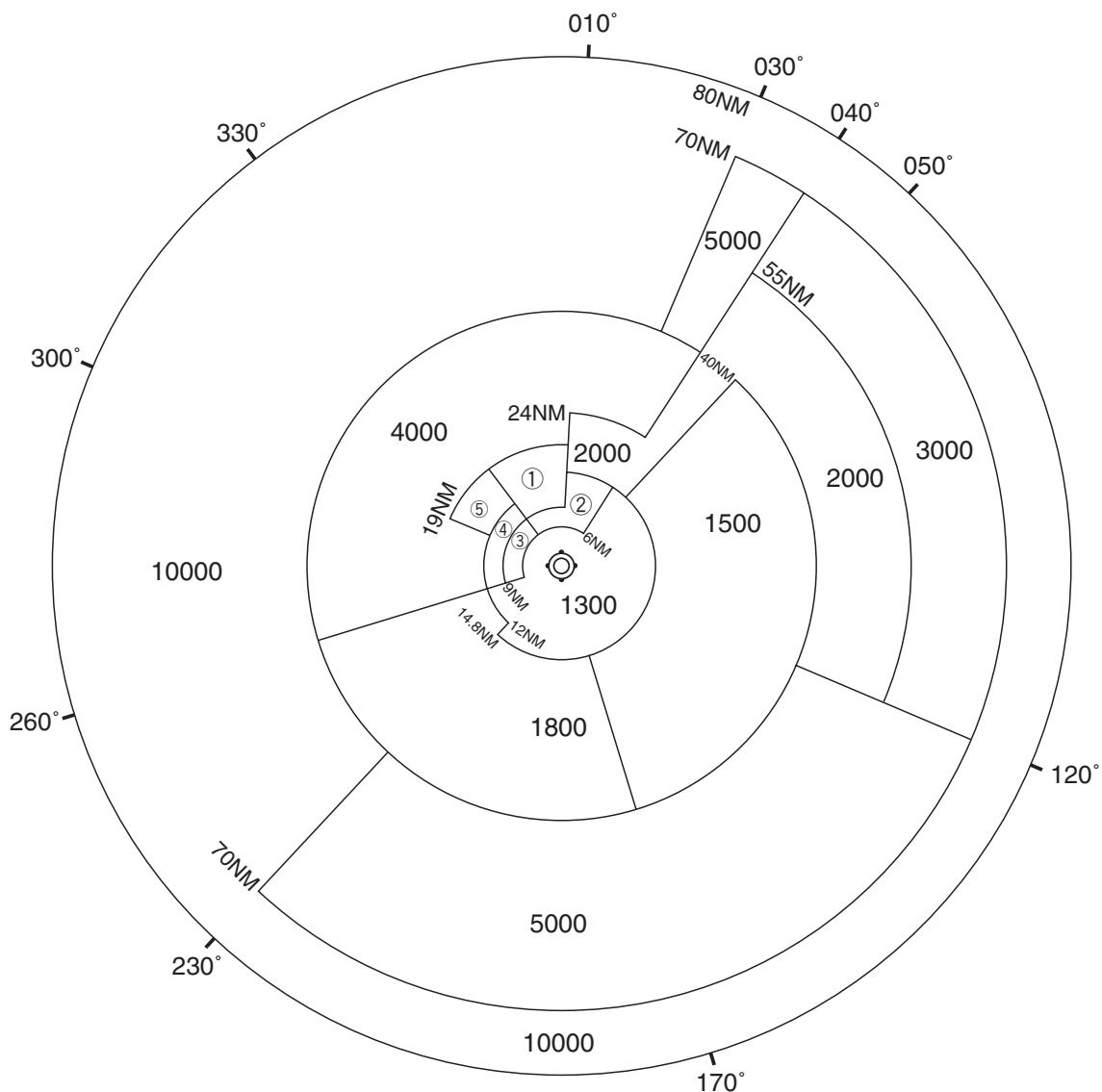
CHANGE : Description of SDF

MINIMA		THR elev. 107		AD elev. 107		
CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	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)



CENTER : 361108N/1402547E (RADAR SITE)