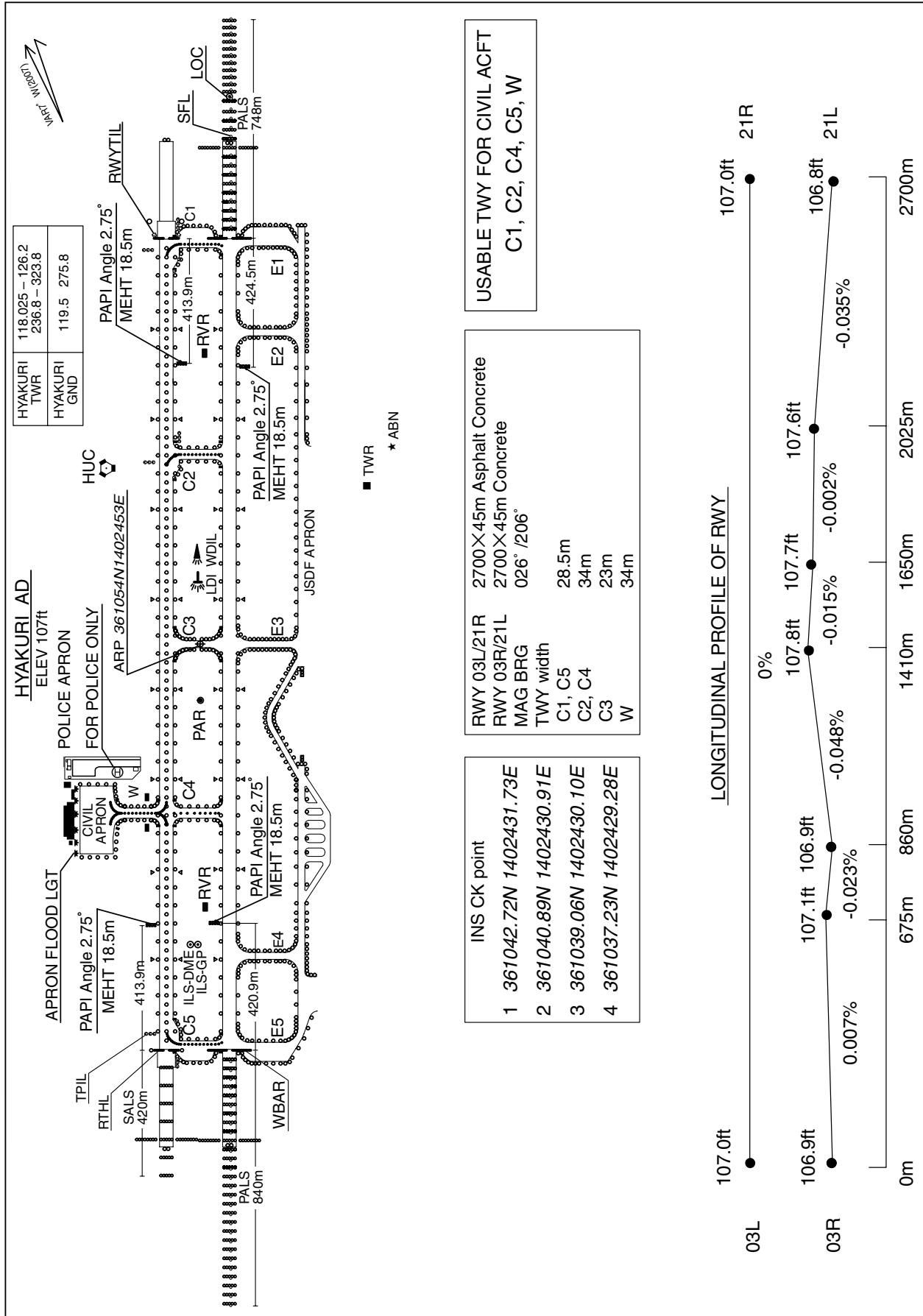
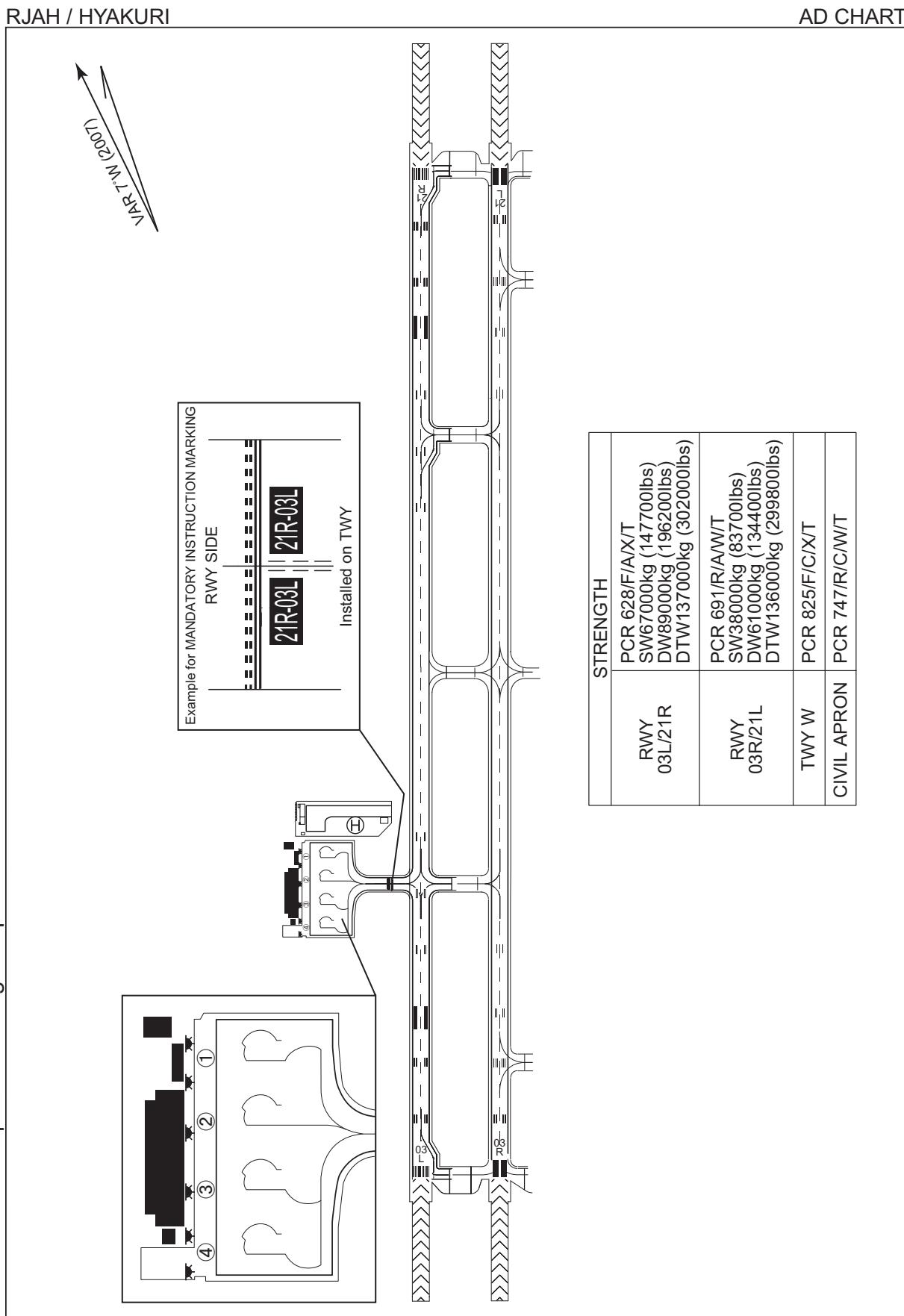


RJAH / HYAKURI

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

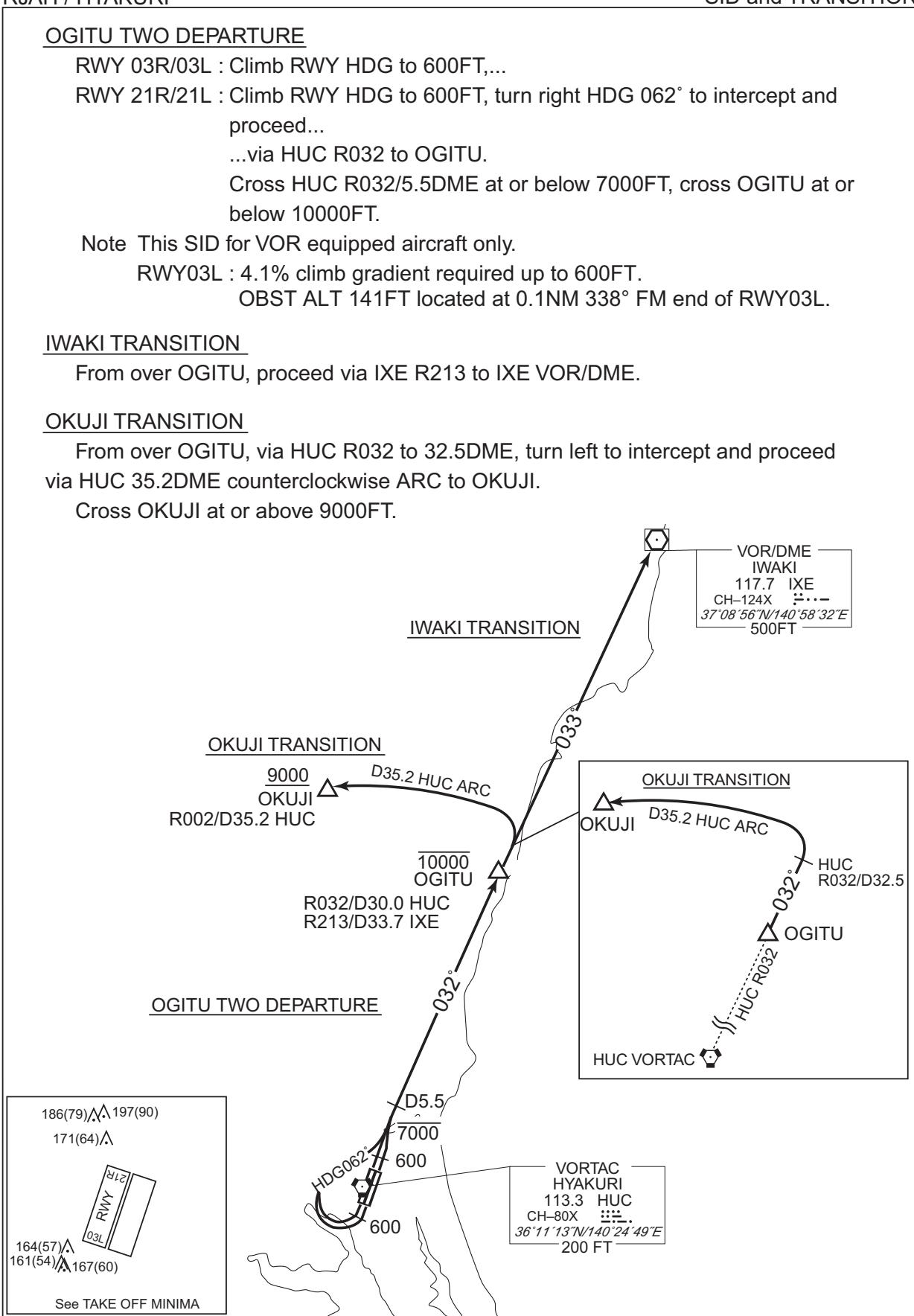
From over OGITU, proceed via IXE R213 to IXE VOR/DME.

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

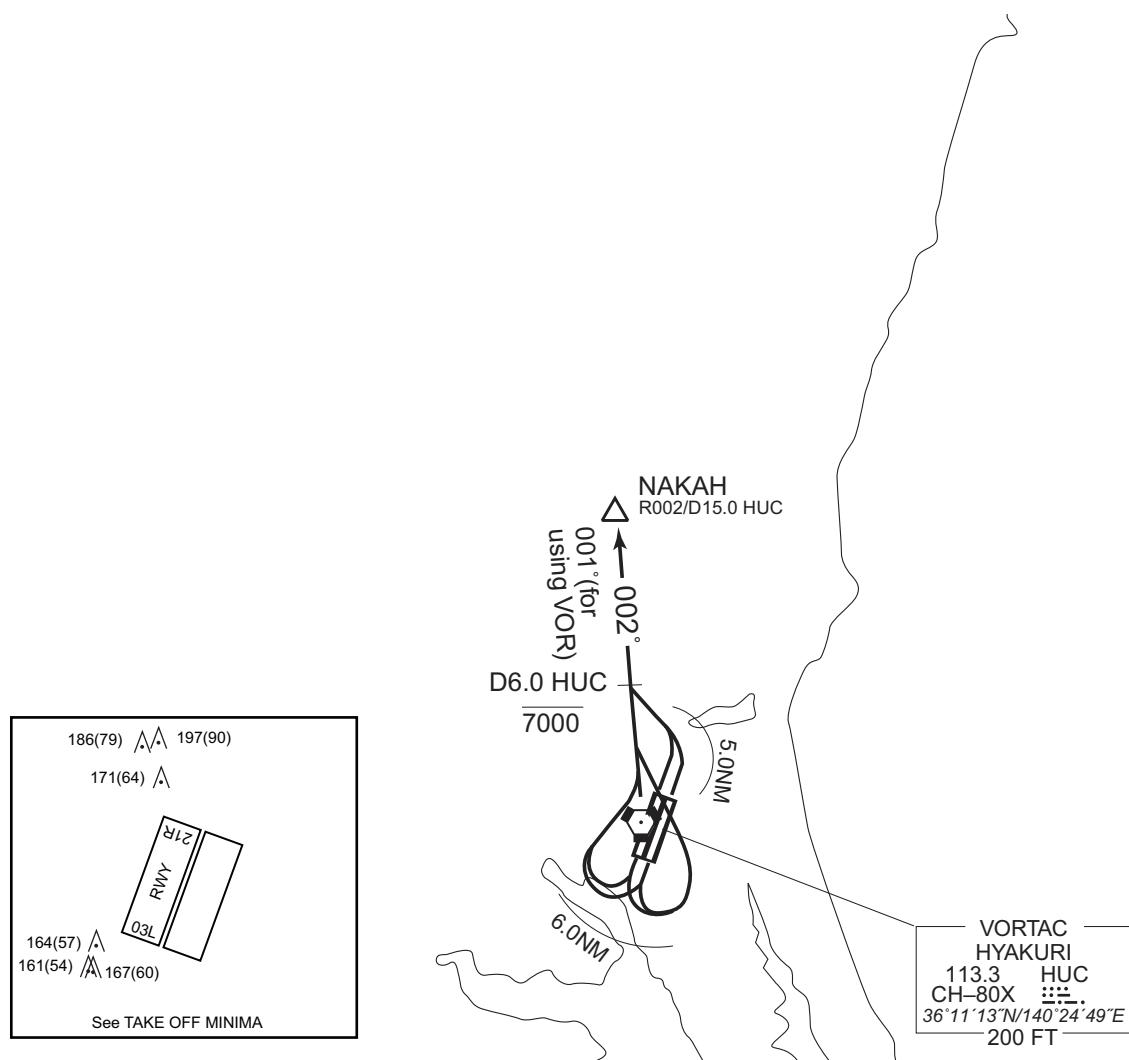
NAKAH FOUR DEPARTURE

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 : OBST.

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

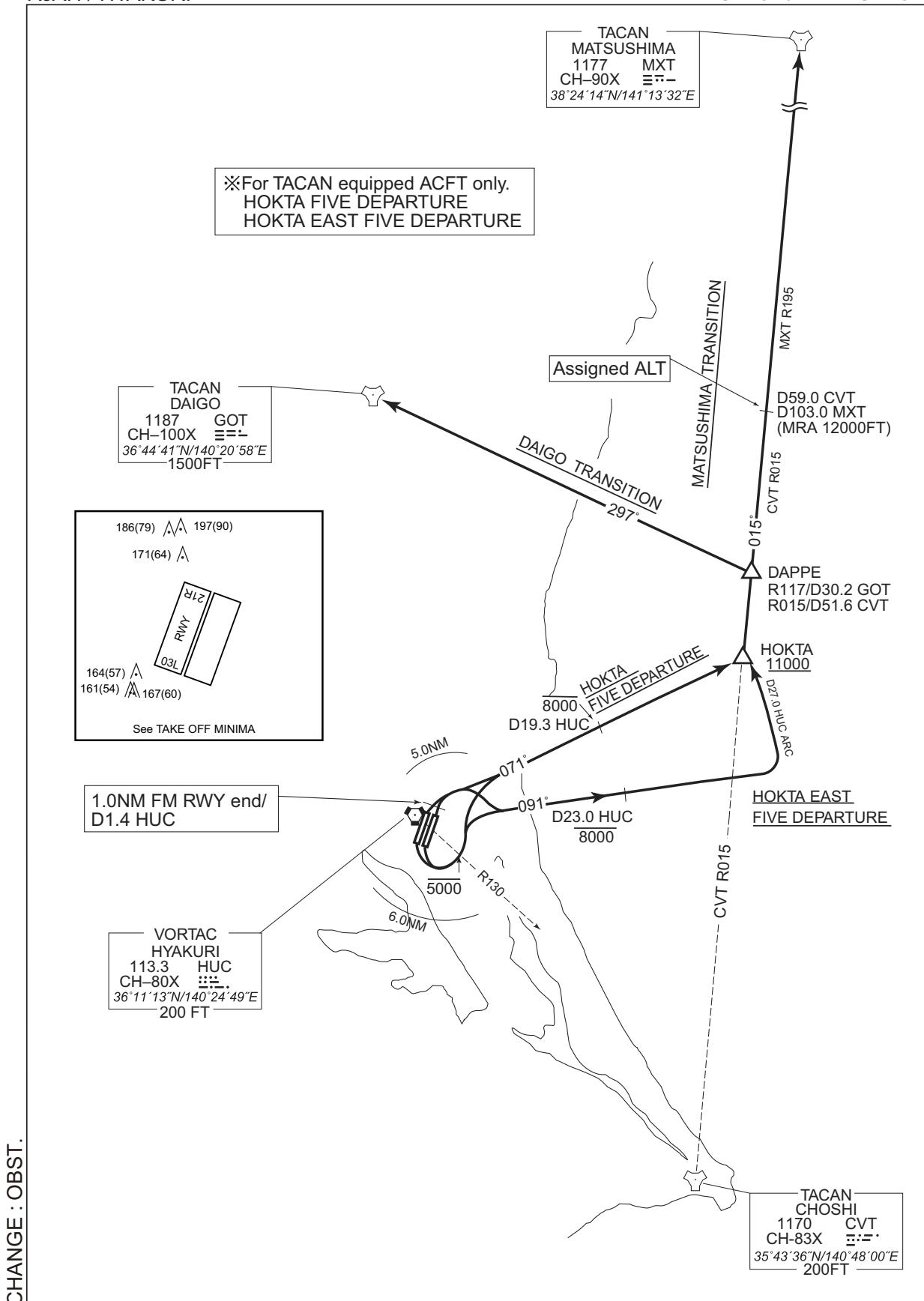
From over HOKTA, via CVT R015 to DAPPE, via GOT R117 to GOT TACAN.

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.

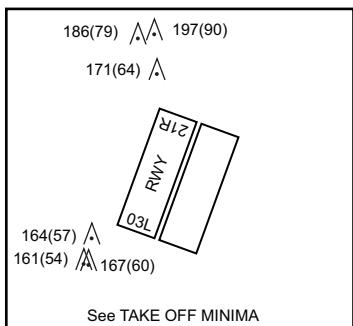
Cross ANKOH at or above FL170.

STANDARD DEPARTURE CHART - INSTRUMENT

RJAH / HYAKURI

SID and TRANSITION

※For TACAN equipped ACFT only.
DAPPE ONE DEPARTURE



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

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

195°

ANKOH

FL170

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

5.0NM

HYAKURI TRANSITION

5000

6.0NM

R130

CHOSHI TRANSITION

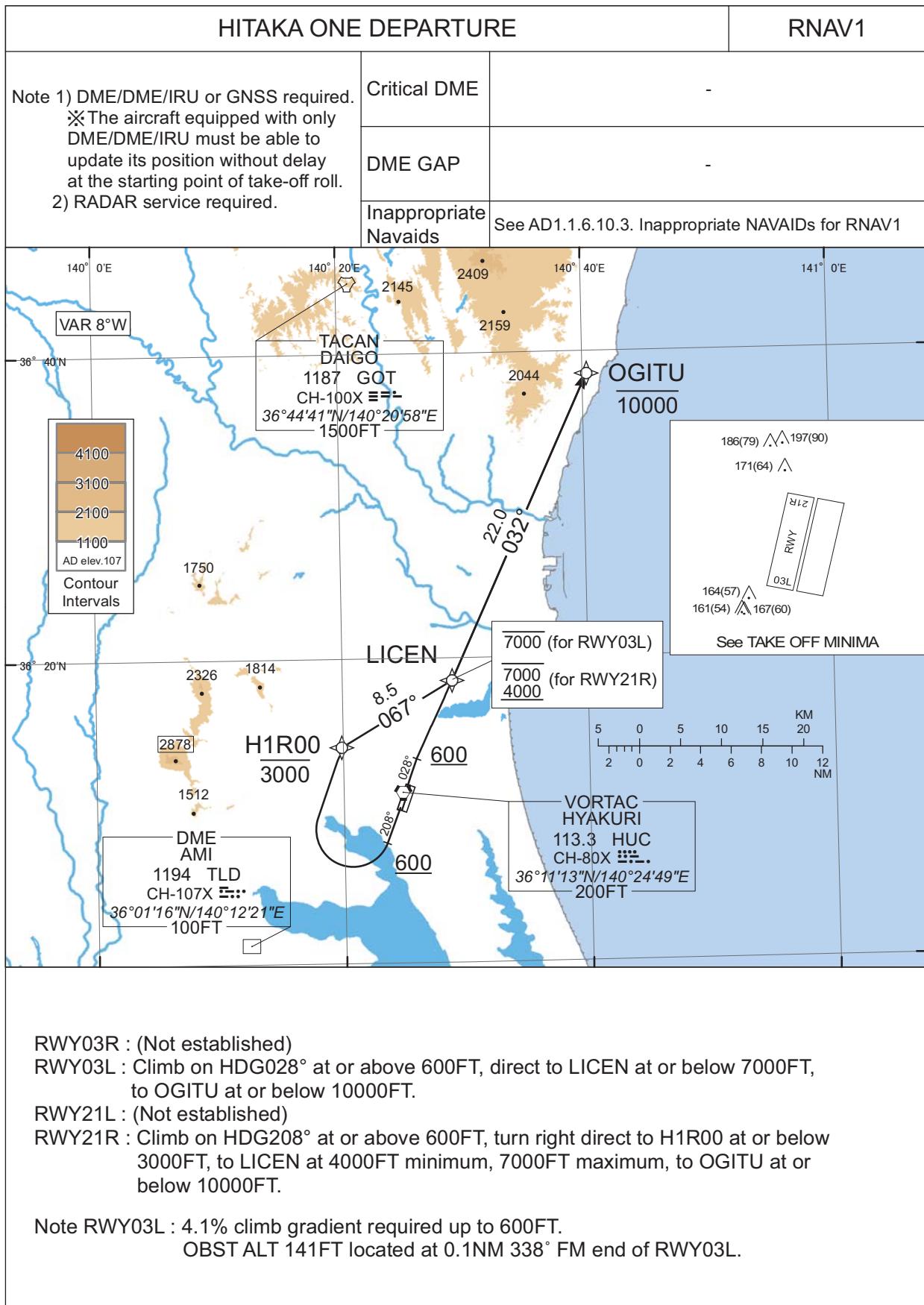
TACAN
CHOSHI
1170 CVT
CH-83X
35°43'36"N/140°48'00"E
200FT

CHANGE: OBST.

STANDARD DEPARTURE CHART - INSTRUMENT

RJAH / HYAKURI

RNAV SID



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 |

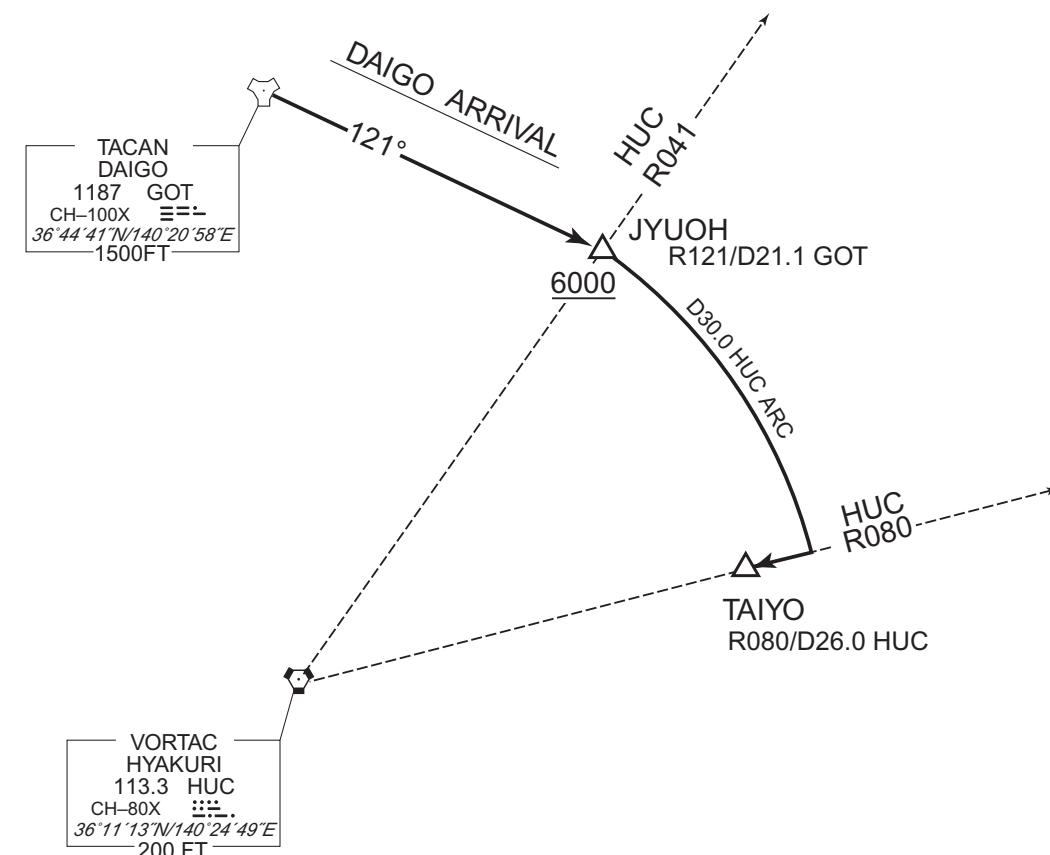
CHANGE : Waypoint Coordinates added.

STANDARD ARRIVAL CHART -INSTRUMENT

RJAH / HYAKURI

STAR

CHANGE : Course, DIST FM GOT to JYUOH.



STANDARD ARRIVAL CHART -INSTRUMENT

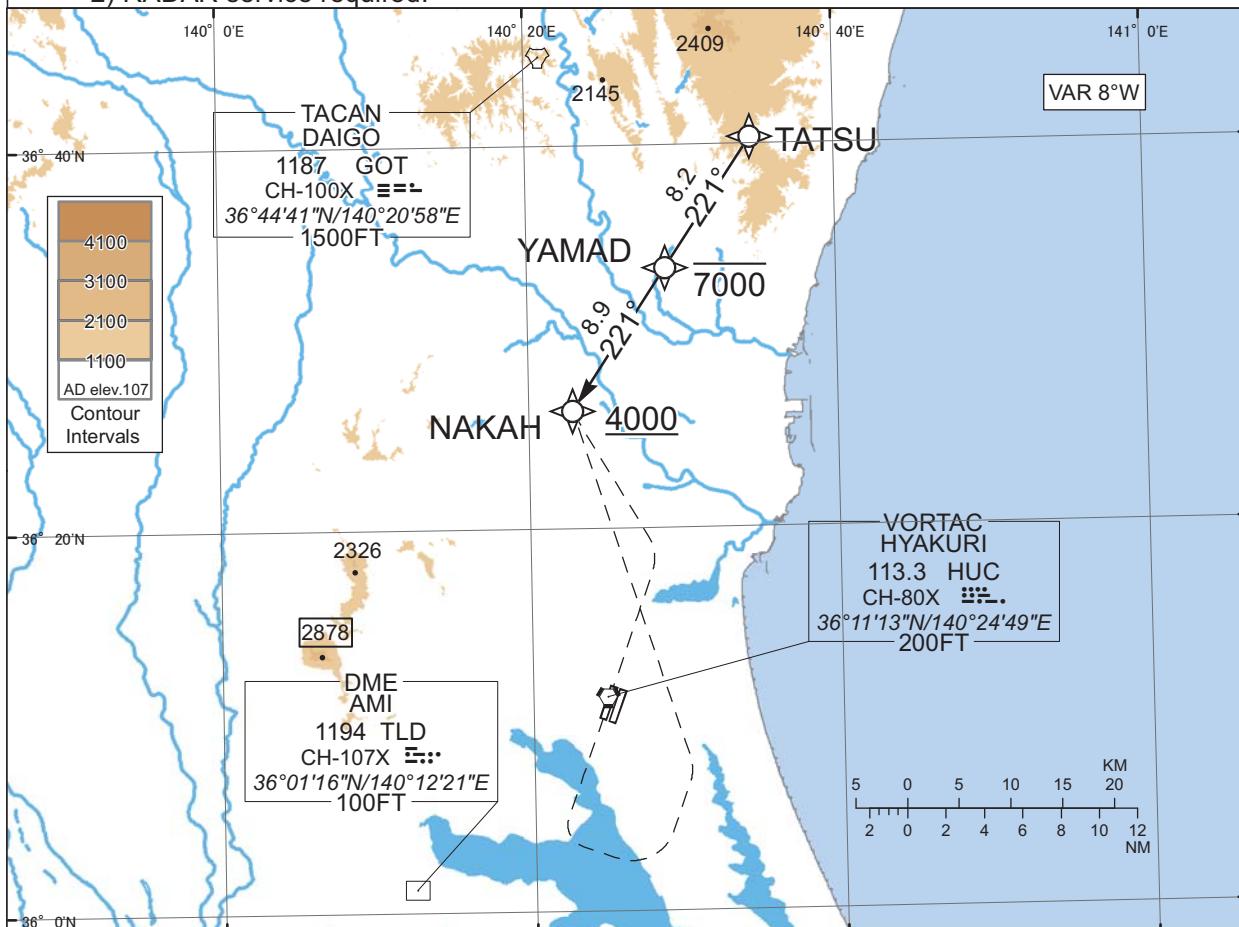
RJAH / HYAKURI

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 |

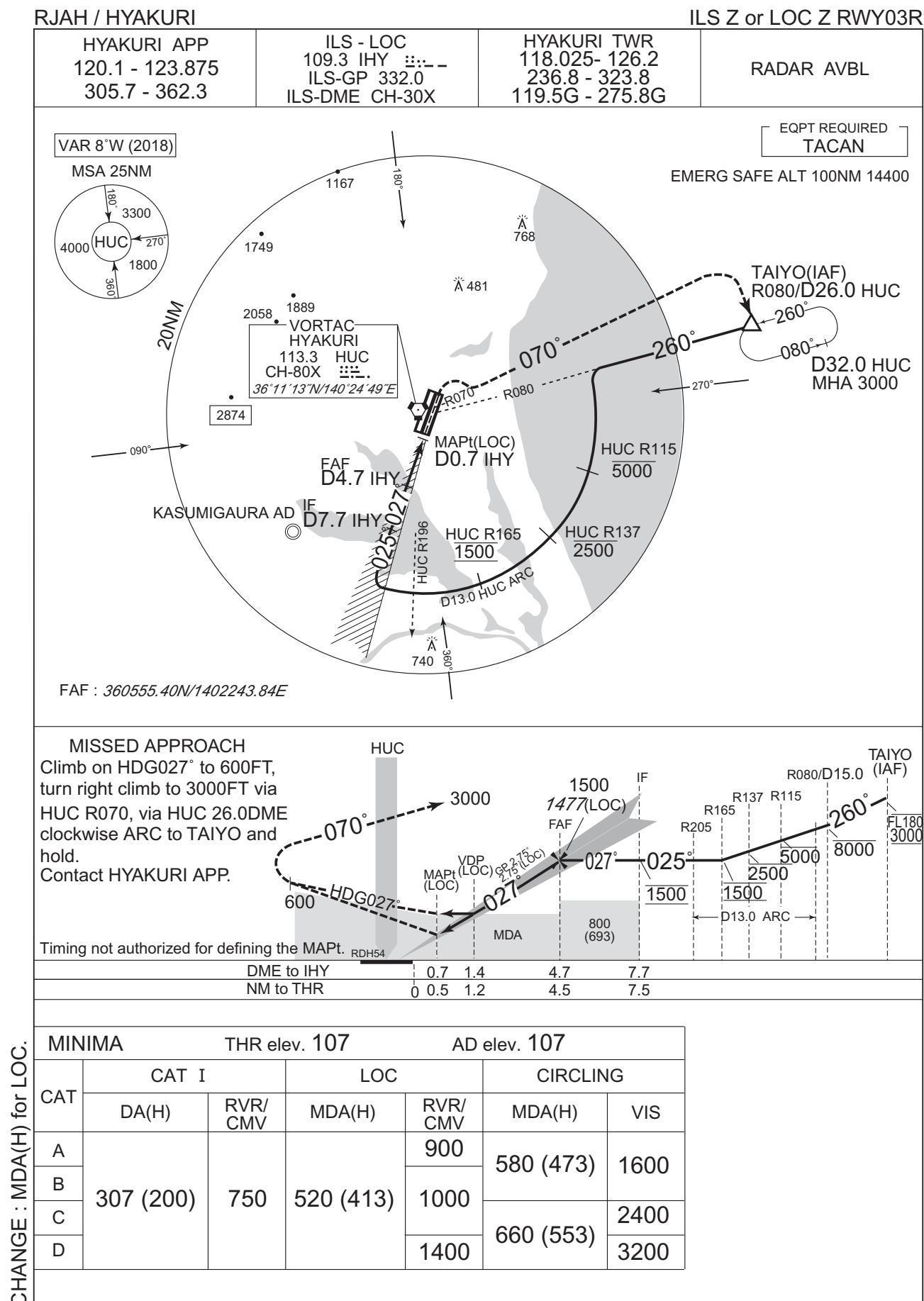
| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 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 |

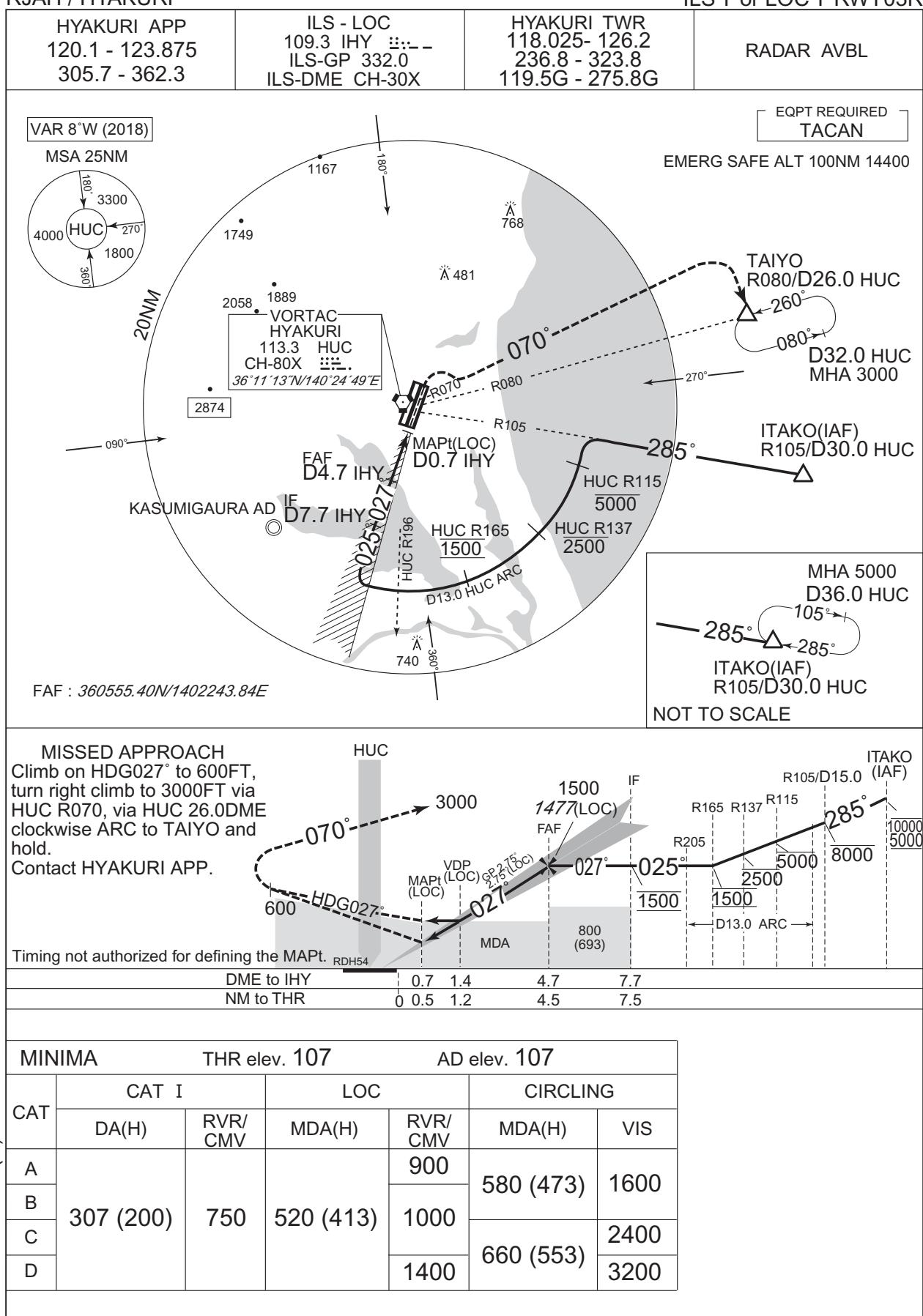
CHANGE : Waypoint Coordinates added.

INSTRUMENT APPROACH CHART

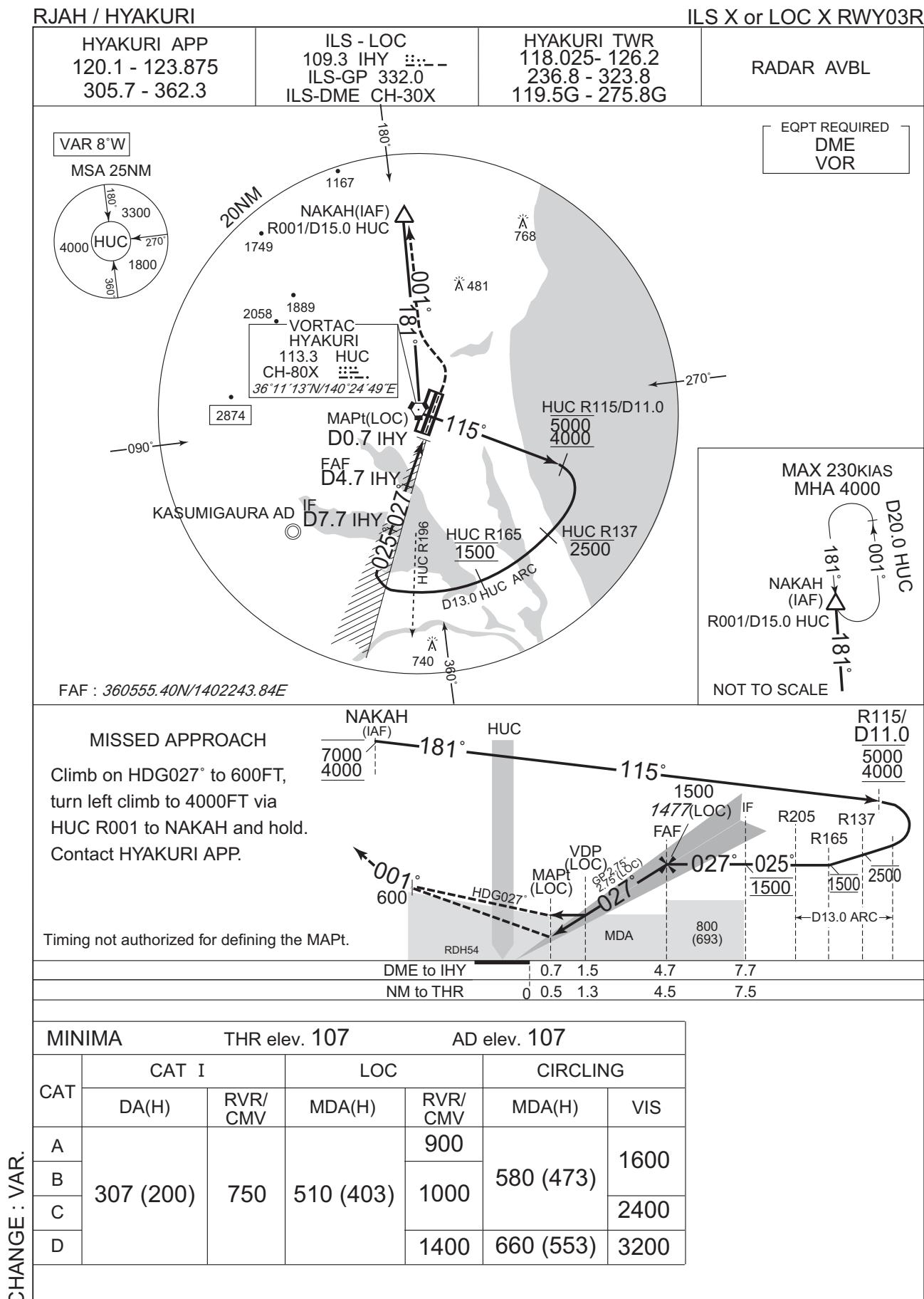


INSTRUMENT APPROACH CHART

RJAH / HYAKURI

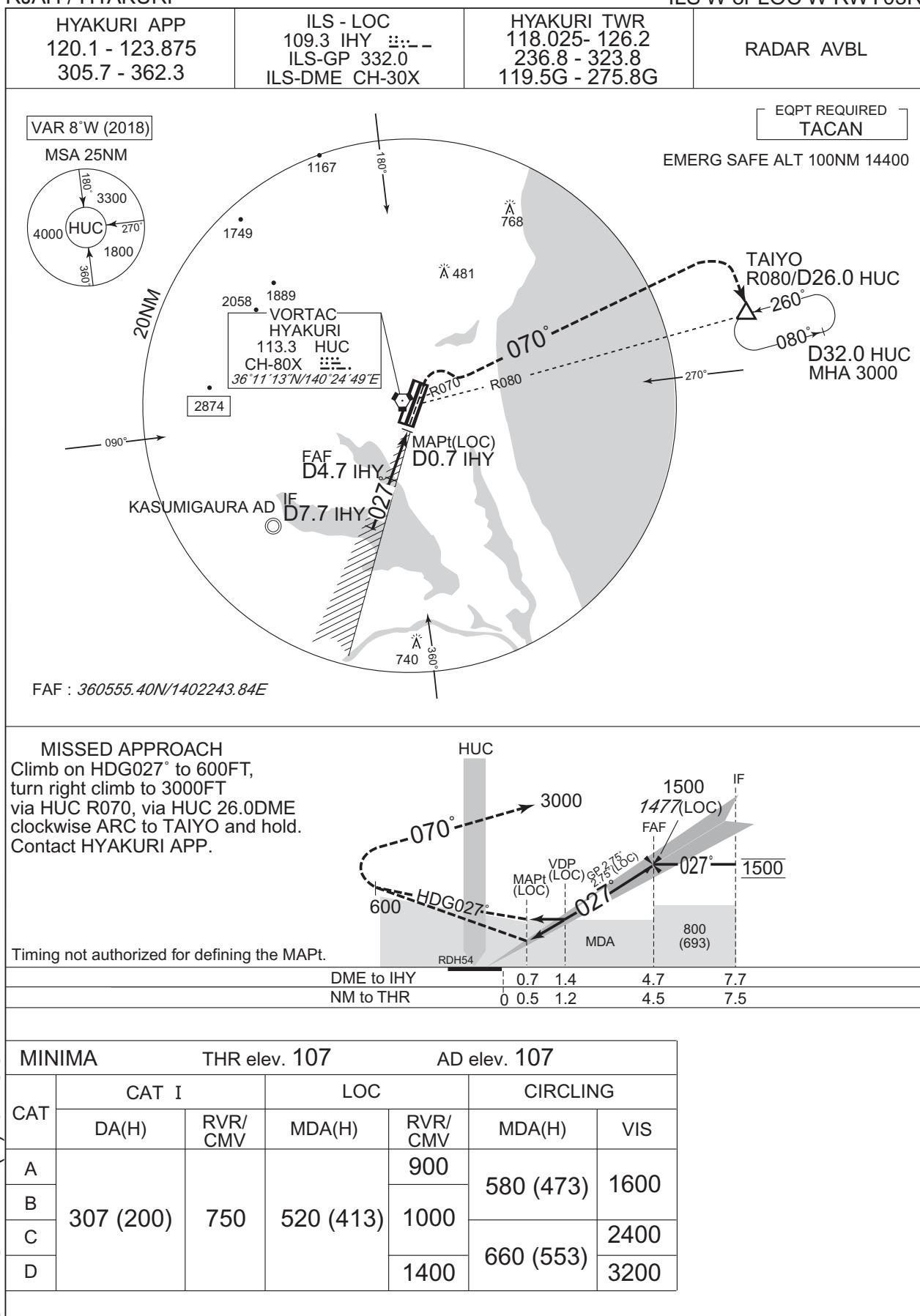


INSTRUMENT APPROACH CHART

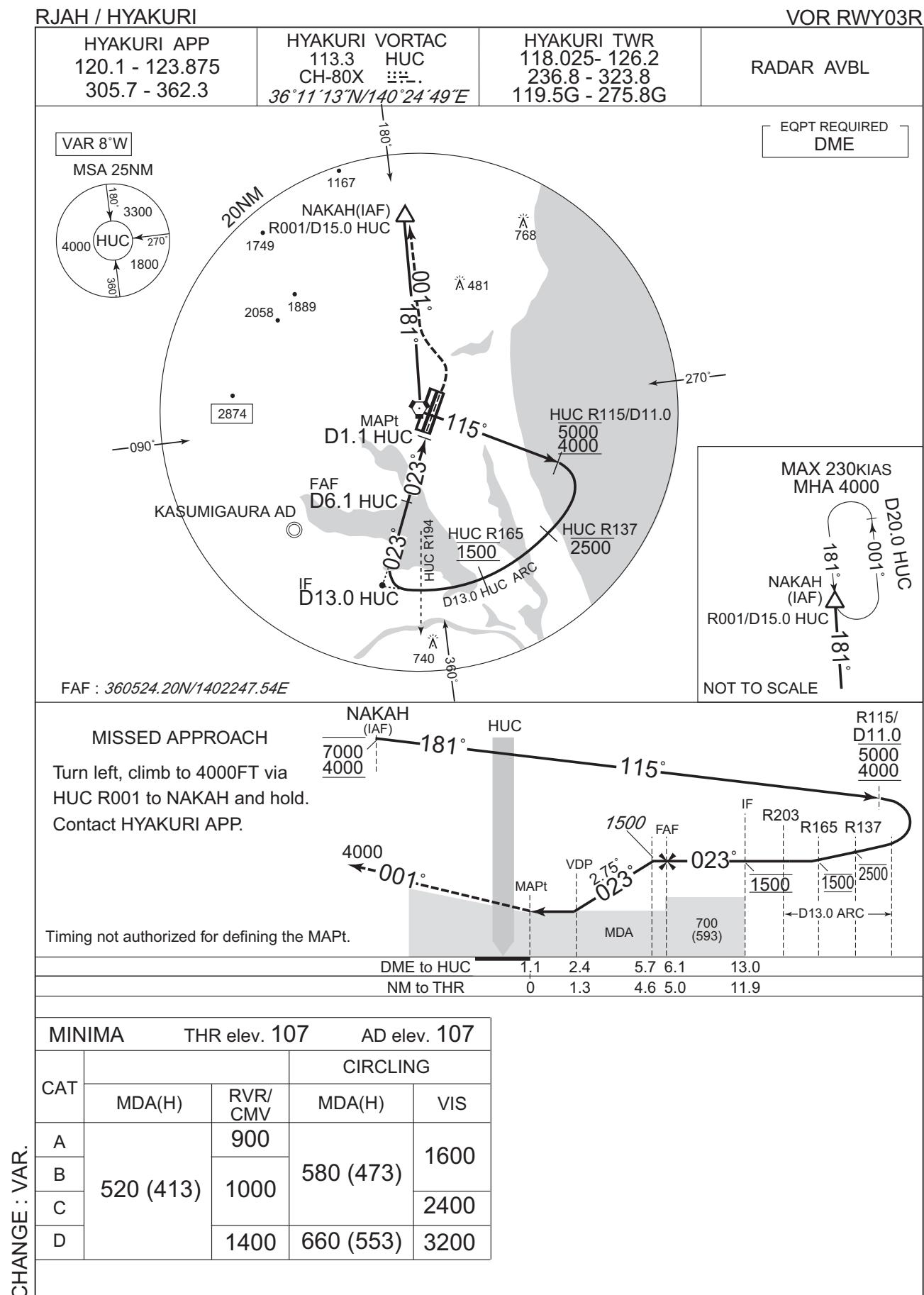


INSTRUMENT APPROACH CHART

RJAH / HYAKURI



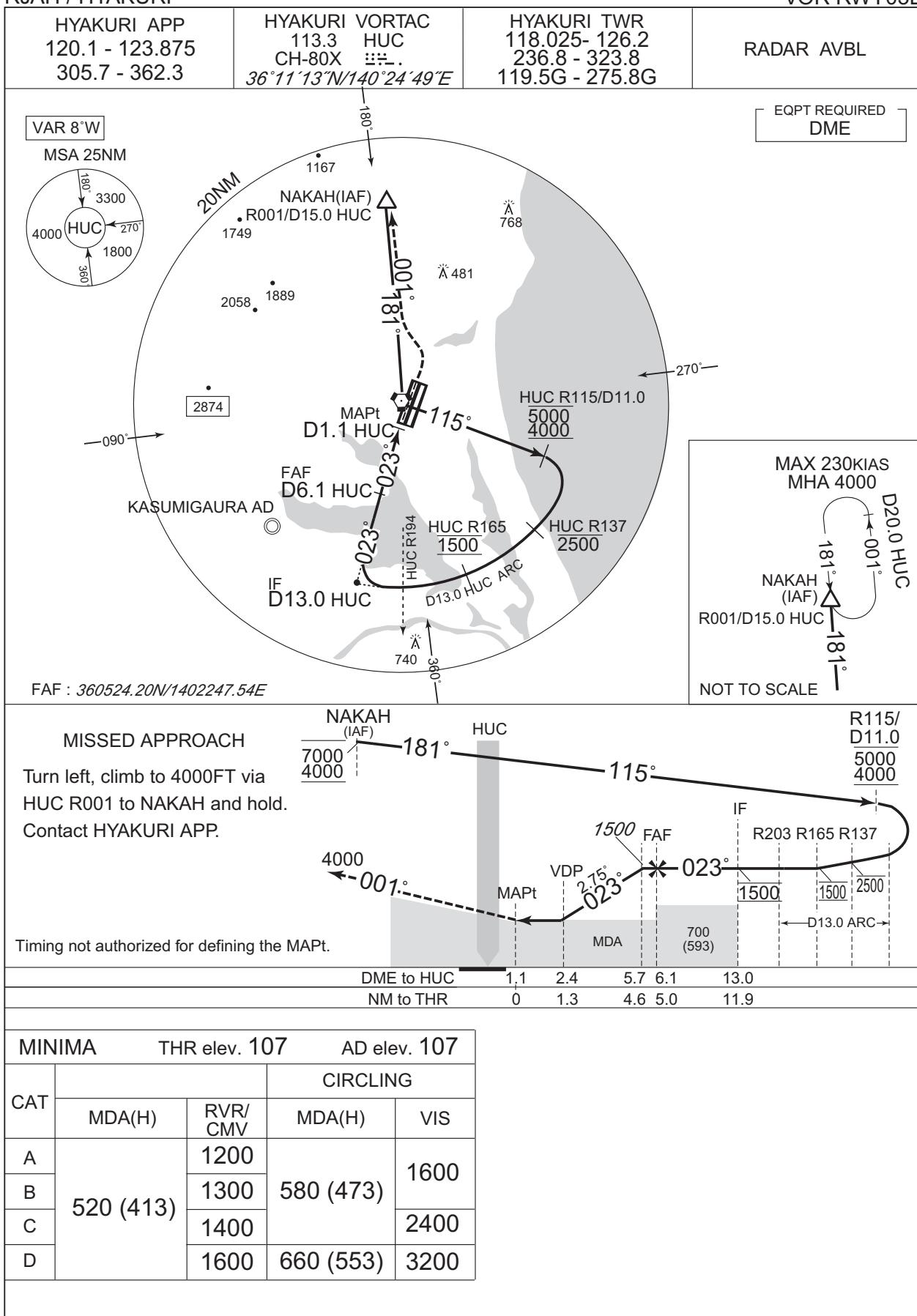
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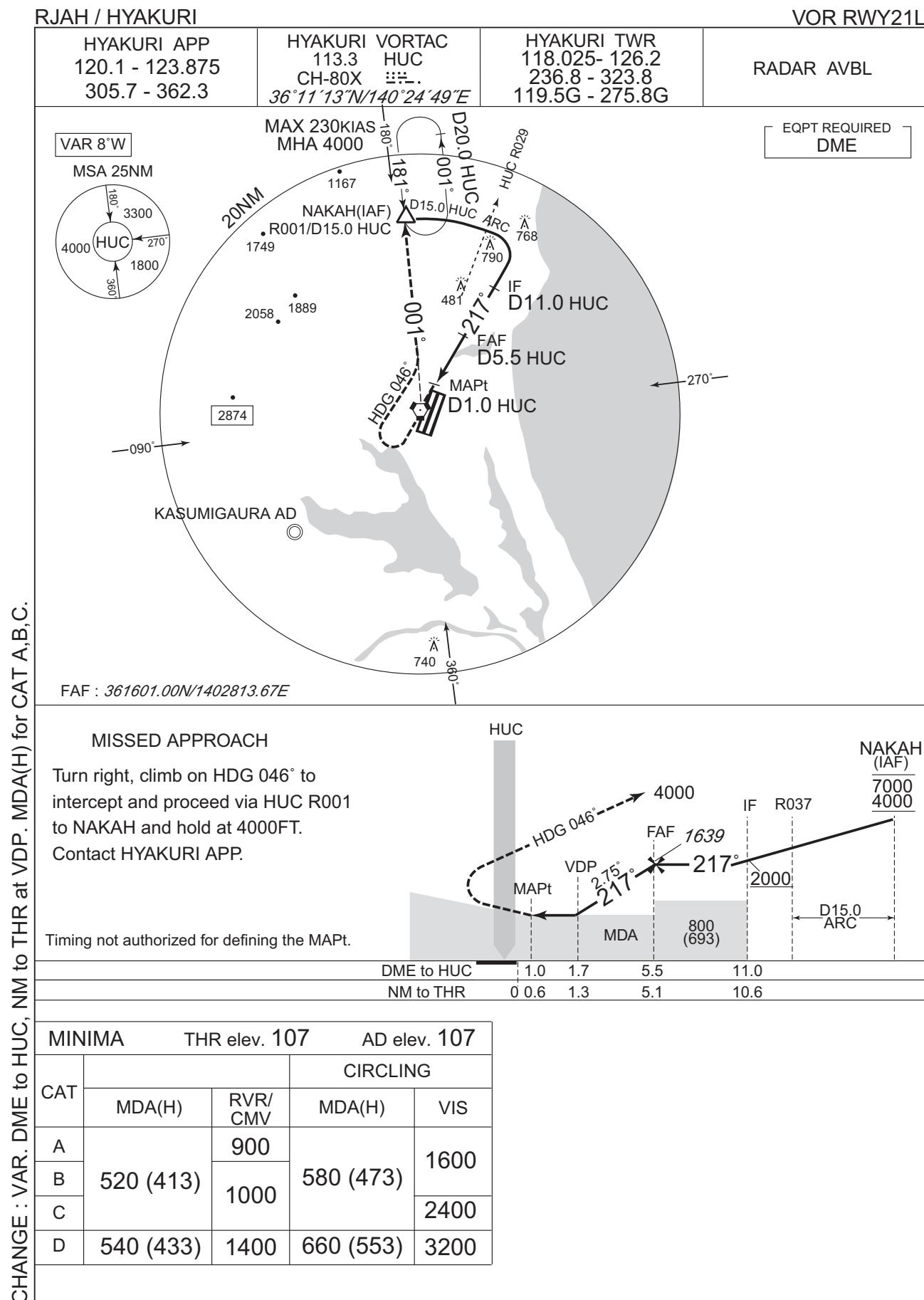
INSTRUMENT APPROACH CHART

RJAH / HYAKURI

VOR RWY03L



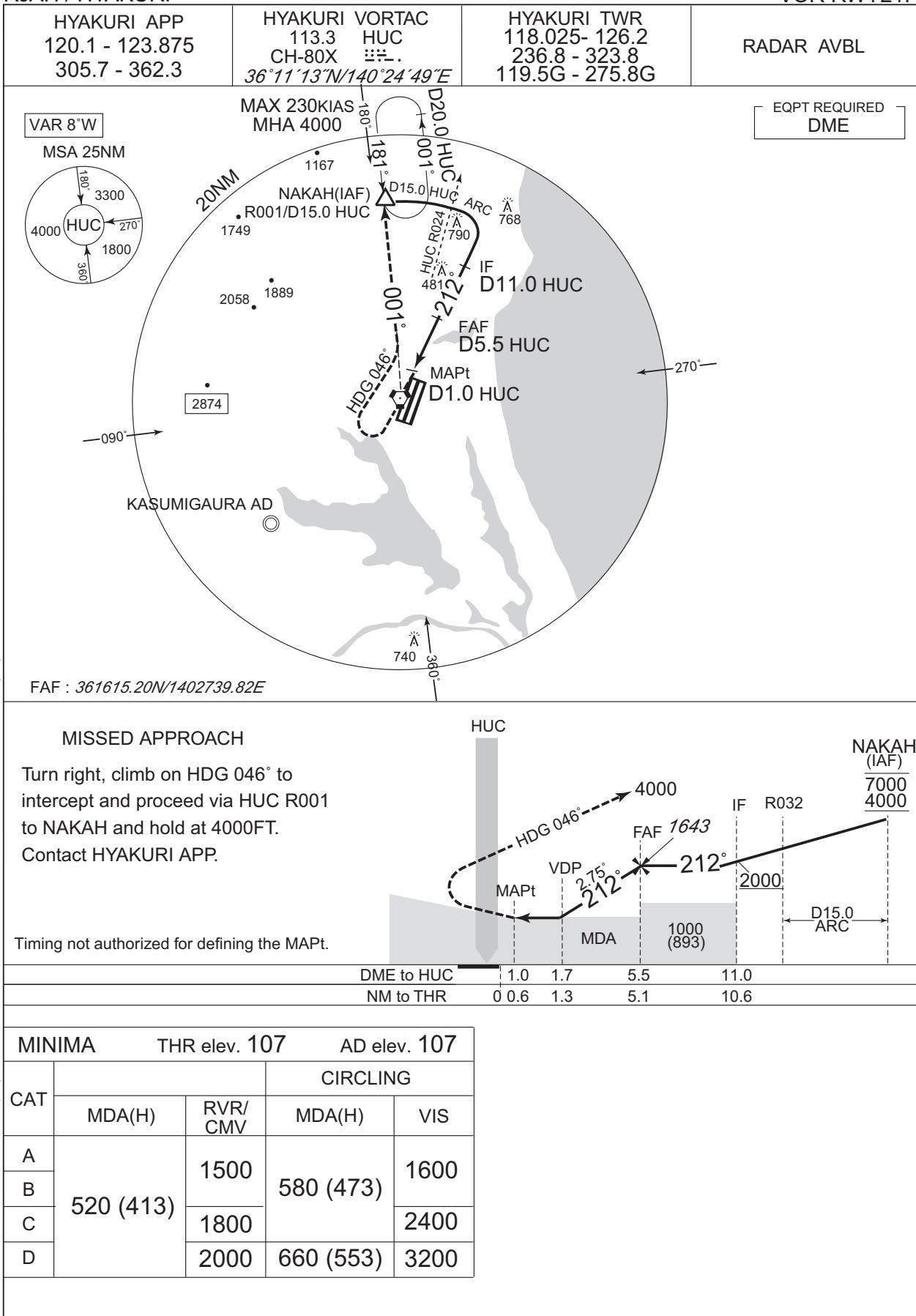
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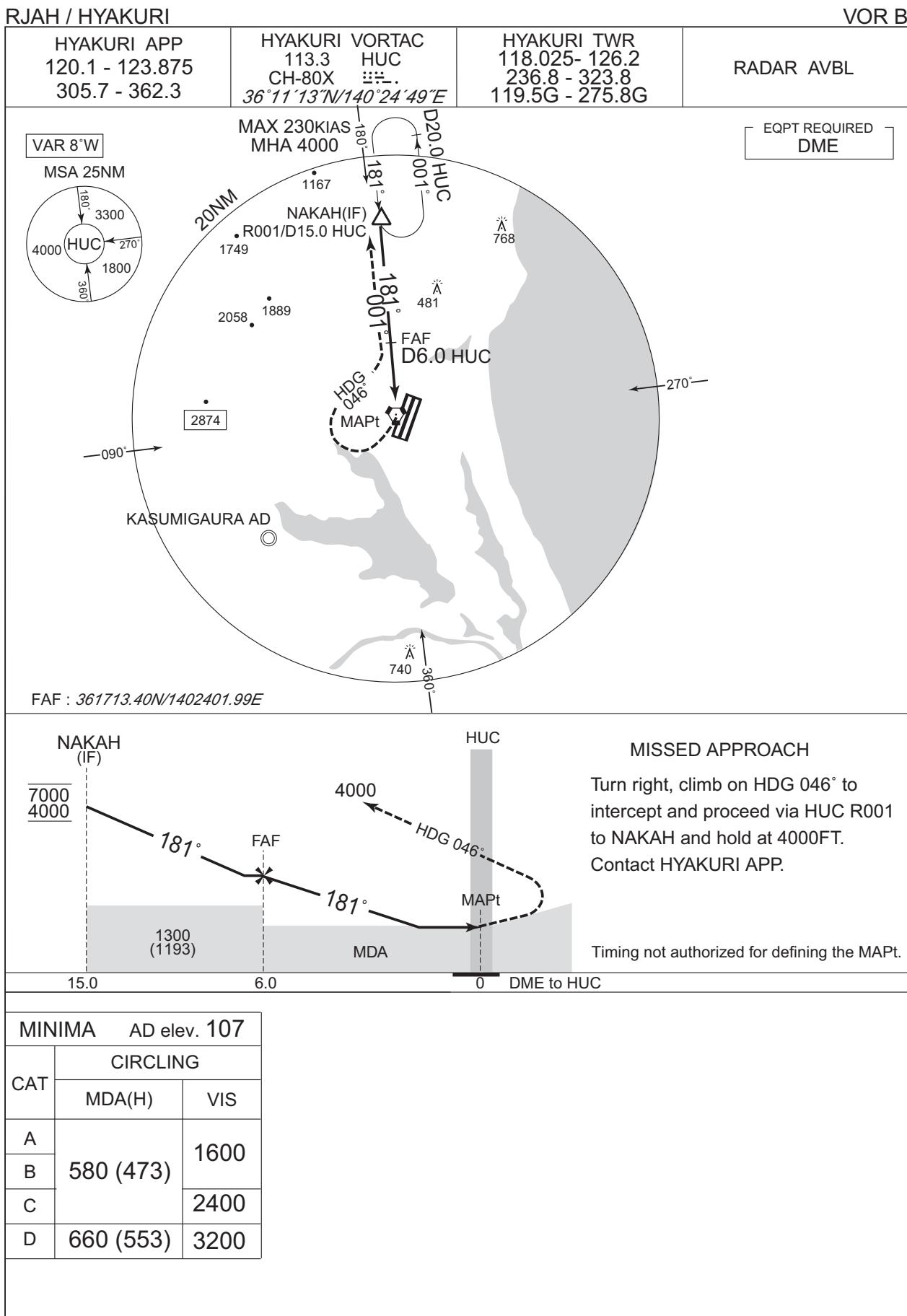
INSTRUMENT APPROACH CHART

RJAH / HYAKURI

VOR RWY21R



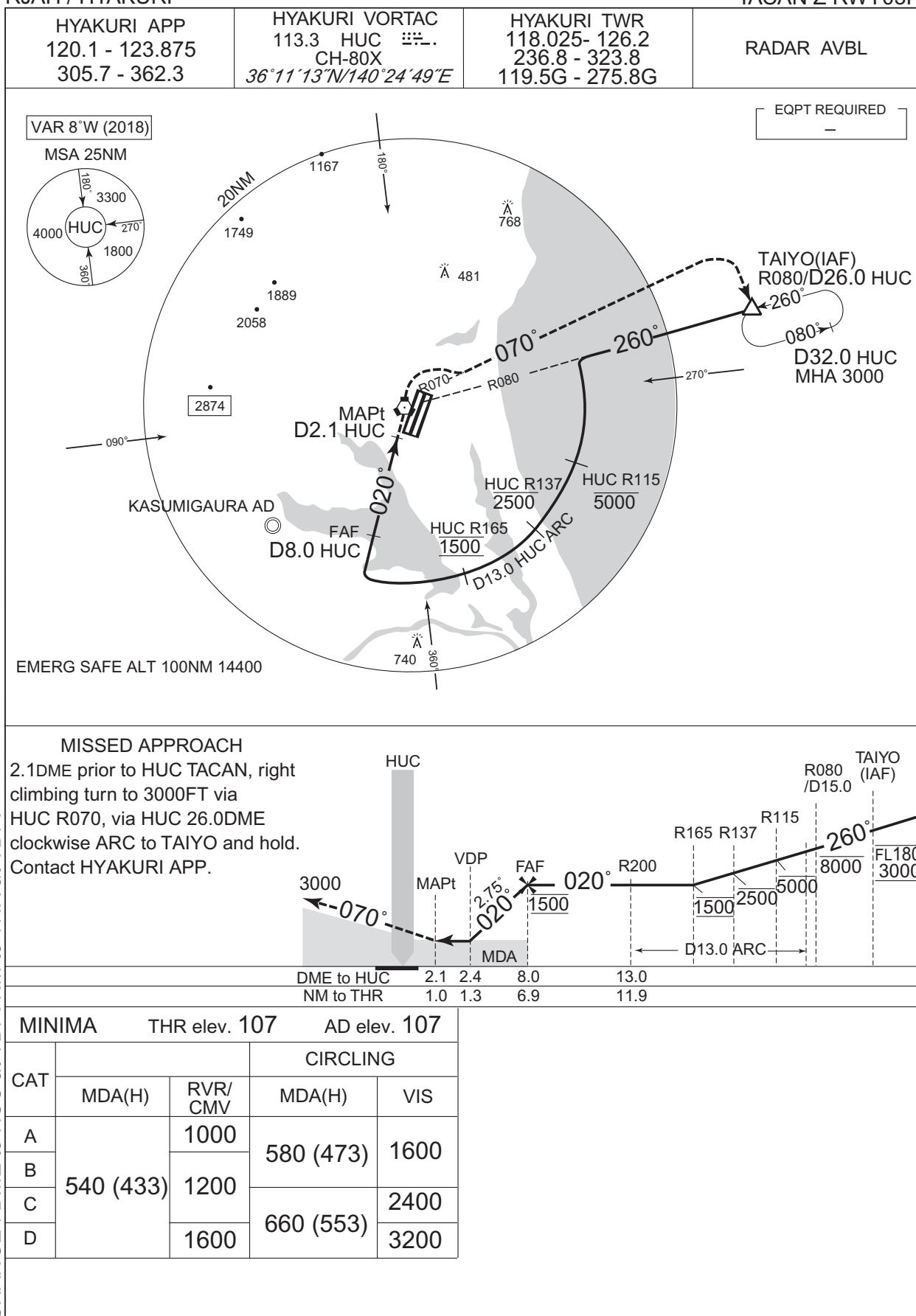
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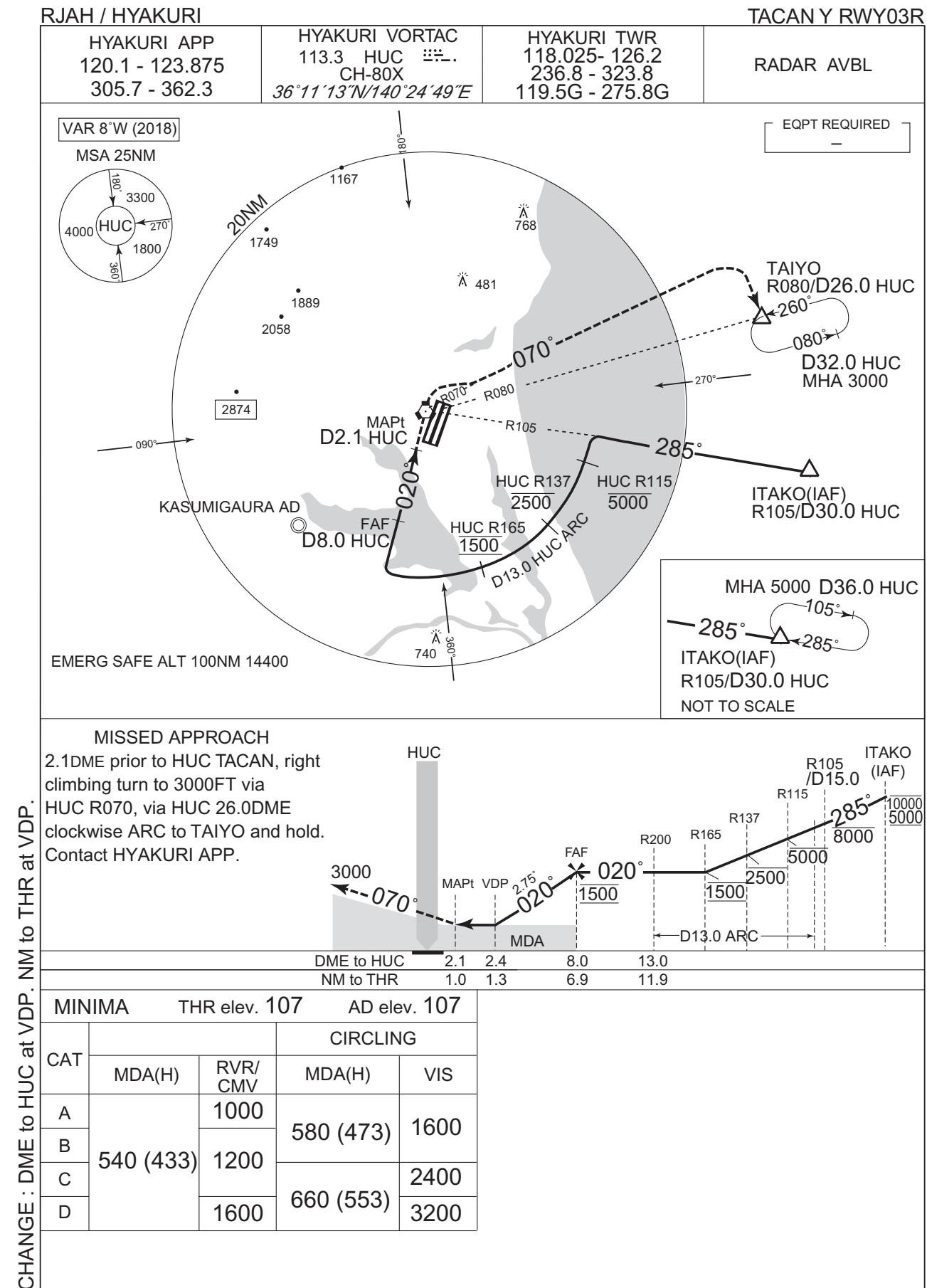
INSTRUMENT APPROACH CHART

RJAH / HYAKURI

TACAN Z RWY03R



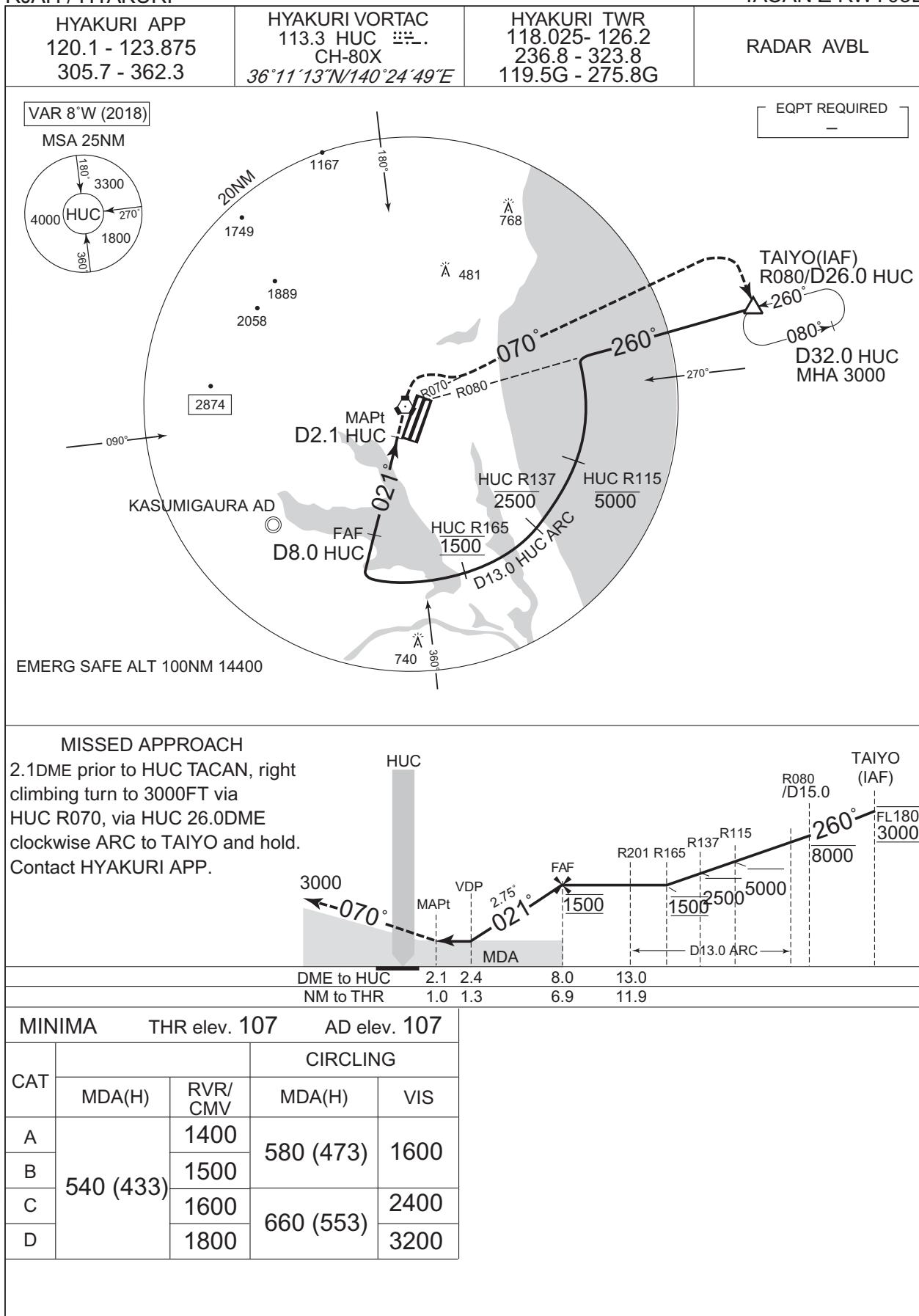
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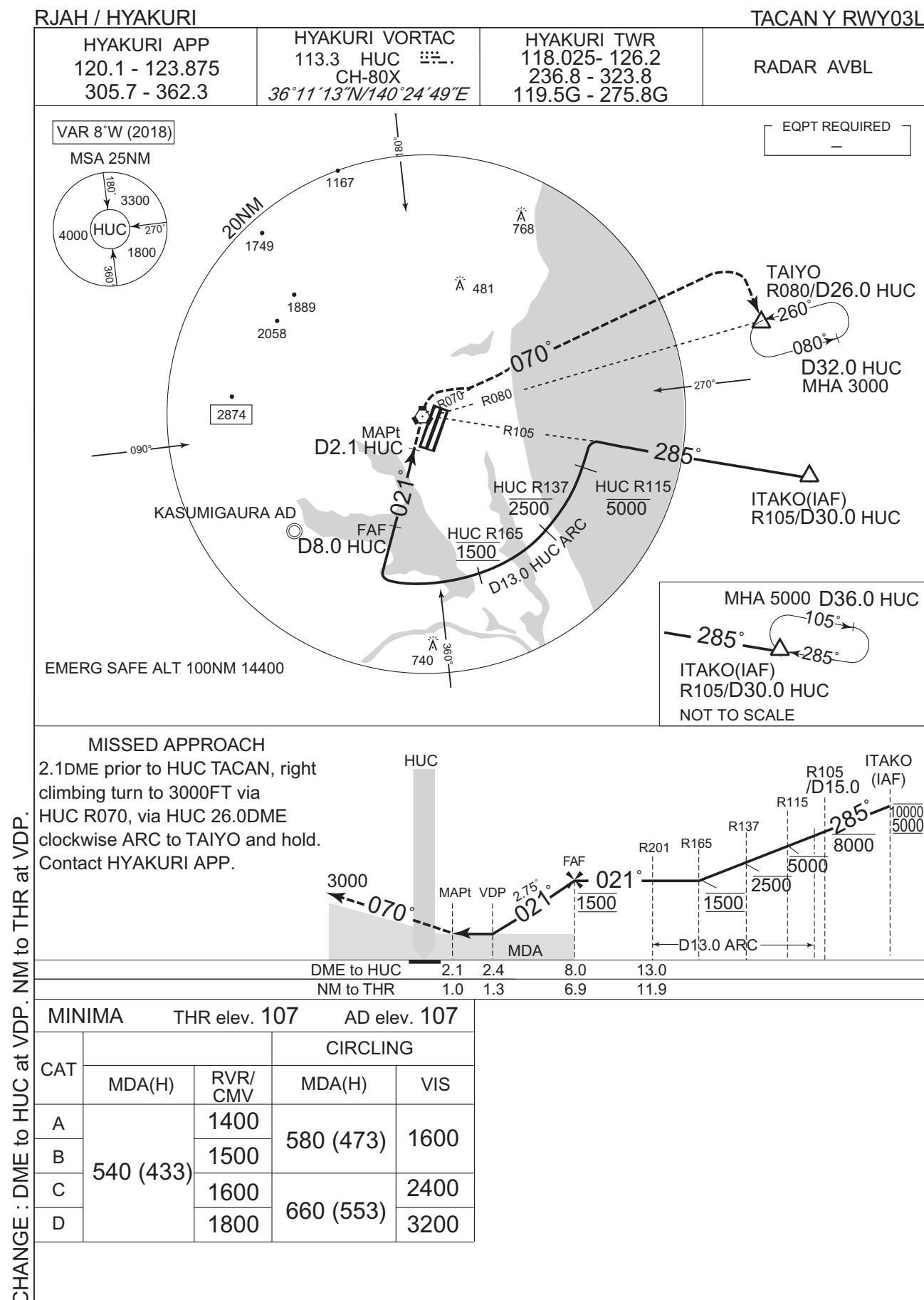
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RJAH / HYAKURI

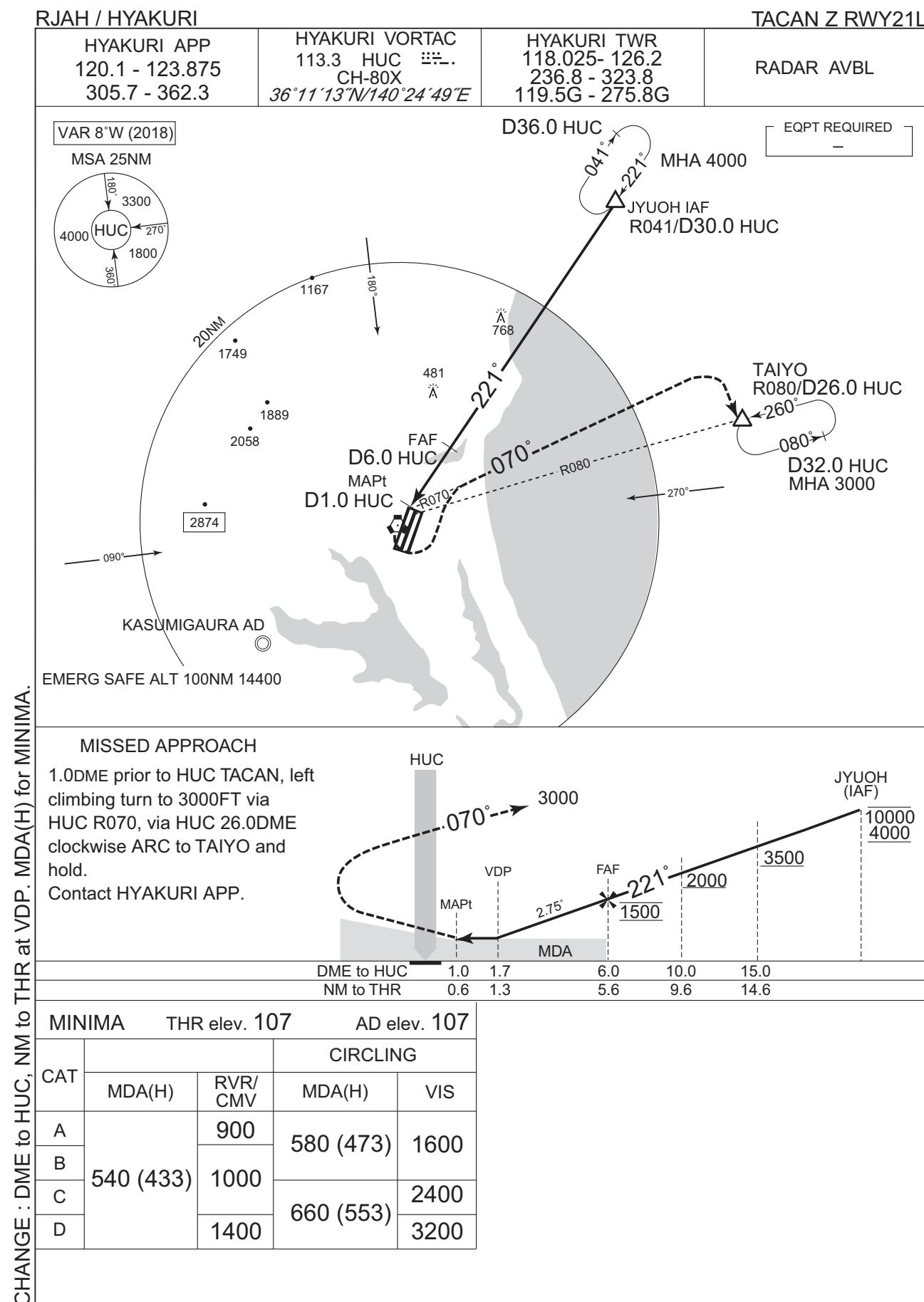
TACAN Z RWY03L



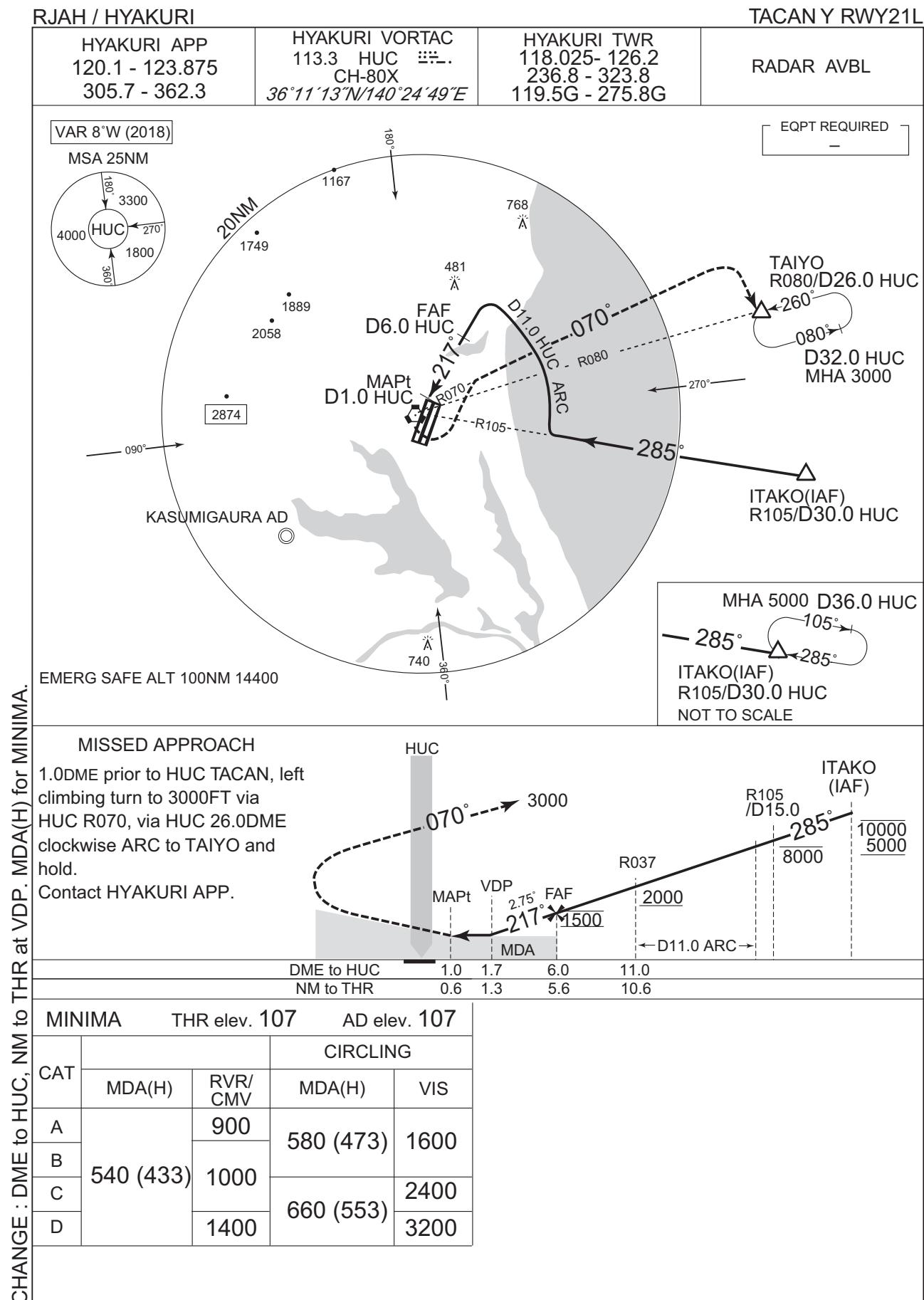
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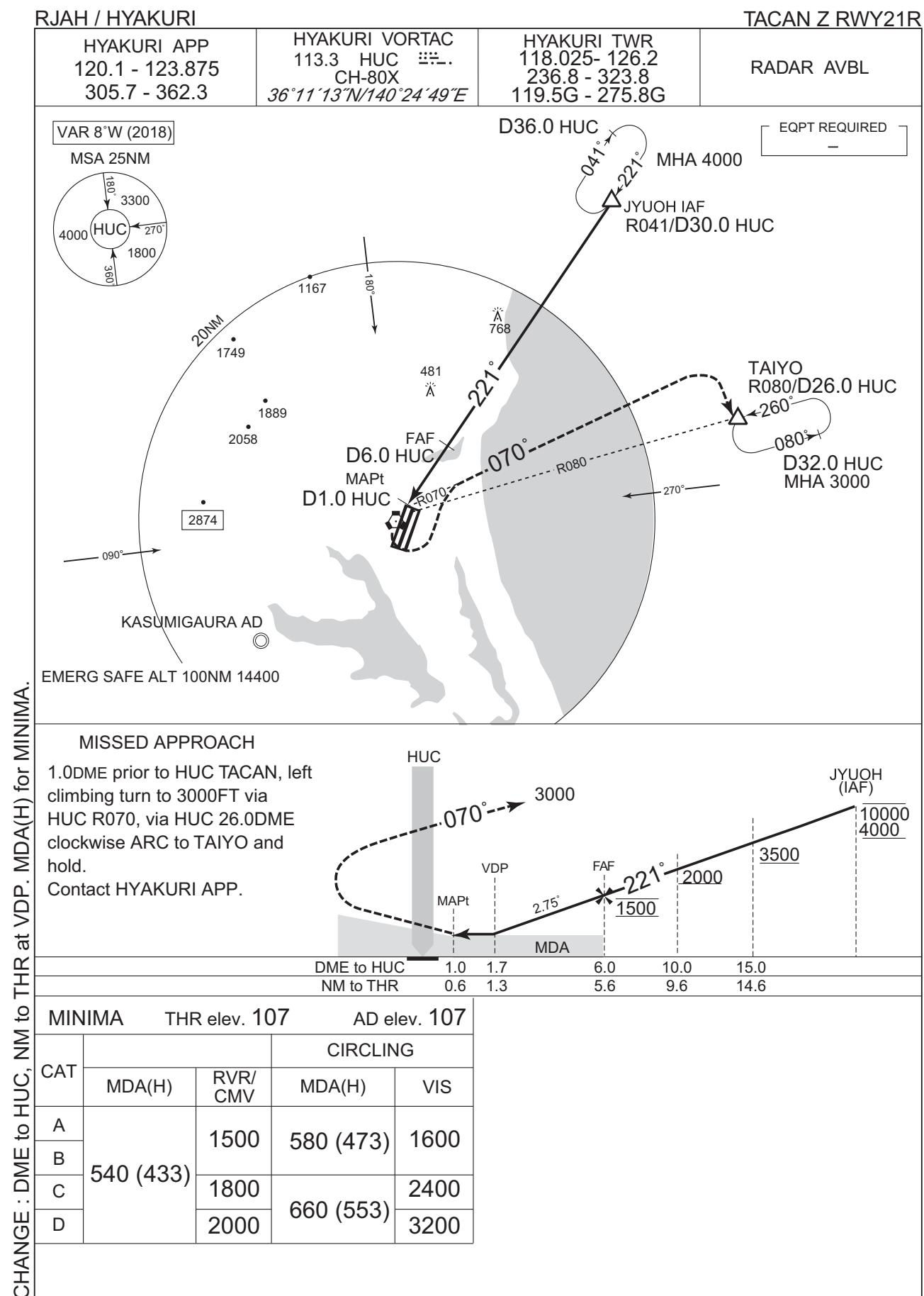
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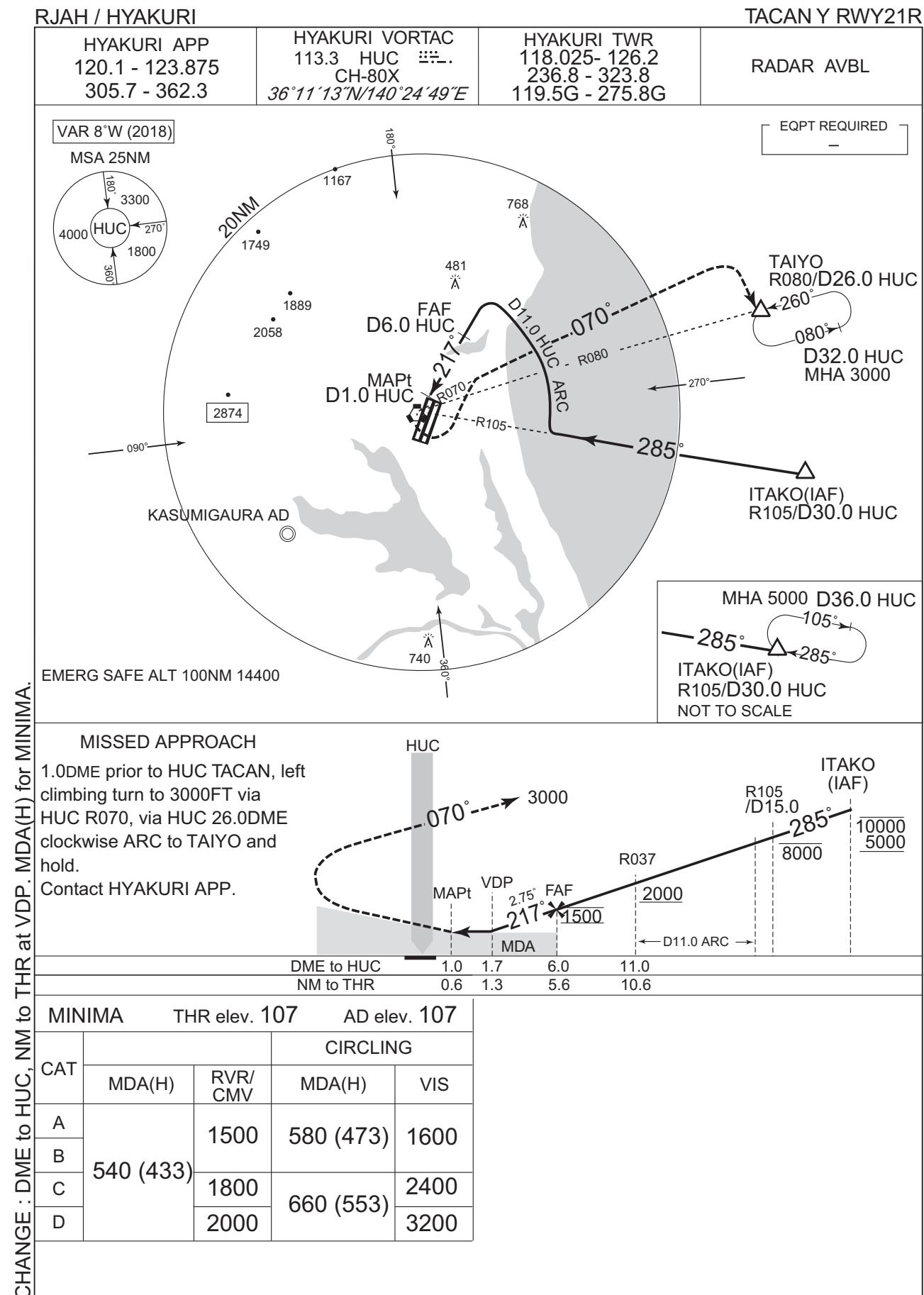
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJAH / HYAKURI

TACAN A

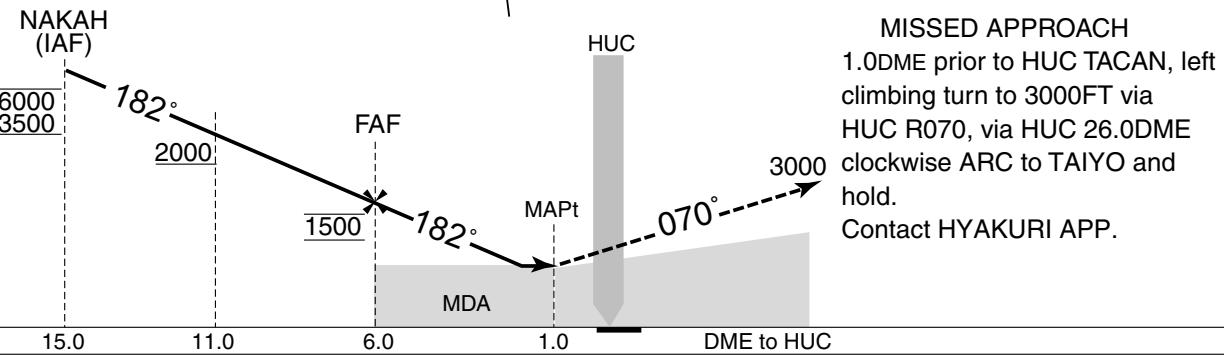
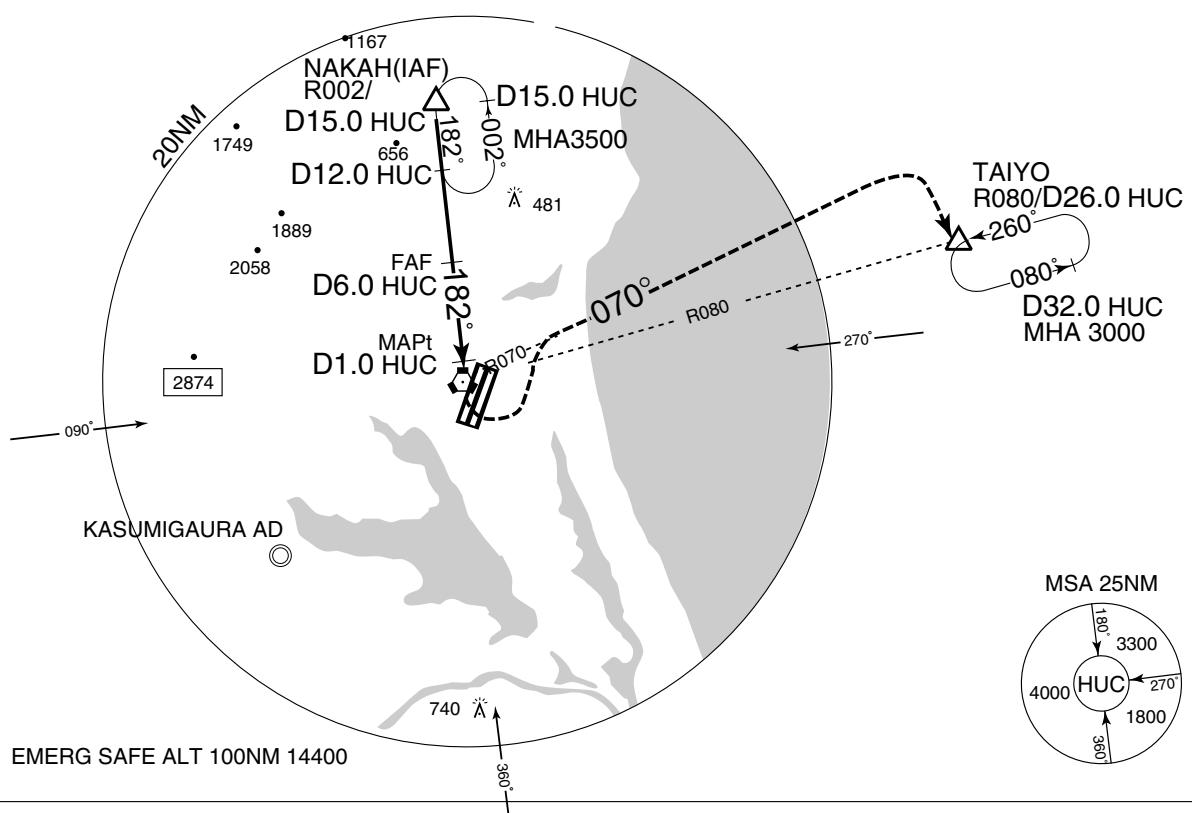
HYAKURI APP
120.1 - 123.875
305.7 - 362.3

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

ARP: 361054N / 1402453E

ARP 4000

1750

1286

2326

1814

2878

1512

36° 20'N

36° 10'N

140° 20'E

140° 30'E

140° 40'E

NAKAH (IAF/MAHF)

RW03L (MAPt)

H3L50

H3L51

WAZKI (FAF)

TOMOE

SUMIG (IF)

MEGAT

170° (162.2°T)

15.8° (162.2°T)

70° (162.2°T)

3.9° (162.2°T)

270°

028°(019.8°T)/1.5

028°(019.8°T)/1.5

MAX 200KIAS

298° (290.0T)

5.7° (199.8°T)

208° (199.8°T)

3.8° (199.8°T)

028° (199.8°T)

NOT TO SCALE

NAKAH

208°

028°

1MIN

MHA 4000

MAX 210KIAS

Contour Intervals

2100

1600

1100

600

AD elev.107

KM

NM to Next Fix

FAF

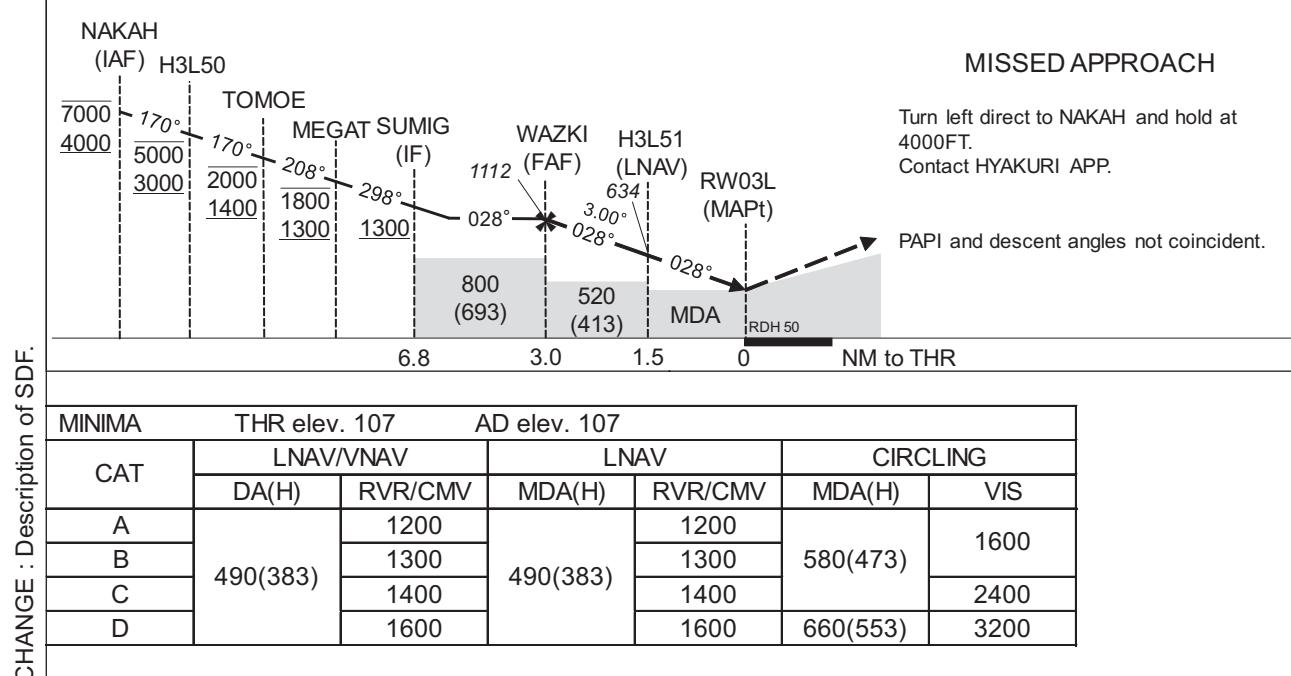
MAPt

ALT T (3.0°APCH Path)

1112

793

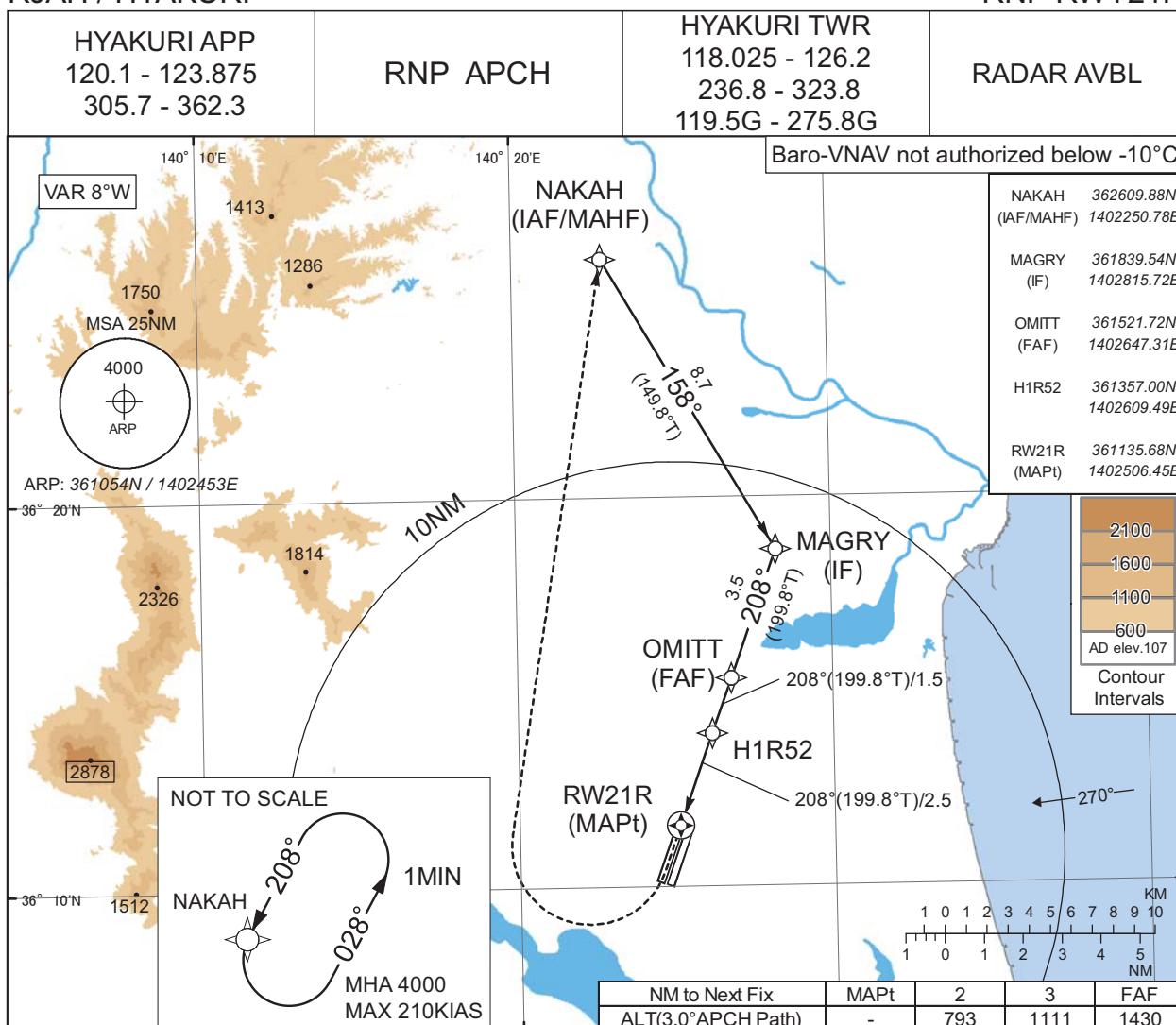
| | |
|------------------|---------------------------|
| NAKAH (IAF/MAHF) | 362609.88N 1402250.78E |
| H3L50 | 361105.04N 1402849.68E |
| TOMOE | 360720.65N 1403018.30E |
| MEGAT | 360158.50N 1402754.58E |
| SUMIG (IF) | 360348.81N 1402138.67E |
| WAZKI (FAF) | 360723.66N 1402314.20E |
| H3L51 | 360848.49N 1402351.96E |
| RW03L (MAPt) | 361013.29N 1402429.73E |



INSTRUMENT APPROACH CHART

RJAH / HYAKURI

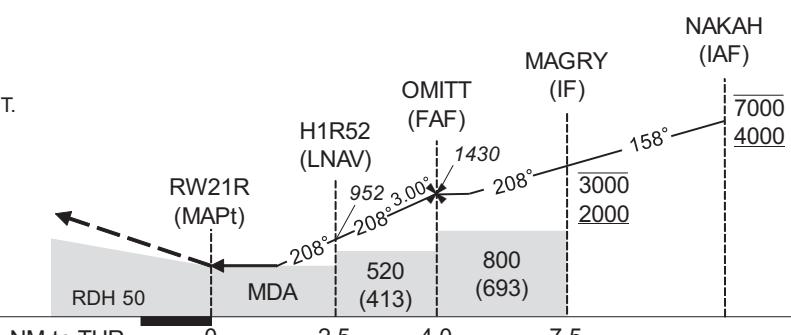
RNP RWY21R



MISSSED APPROACH

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

PAPI and descent angles not coincident.



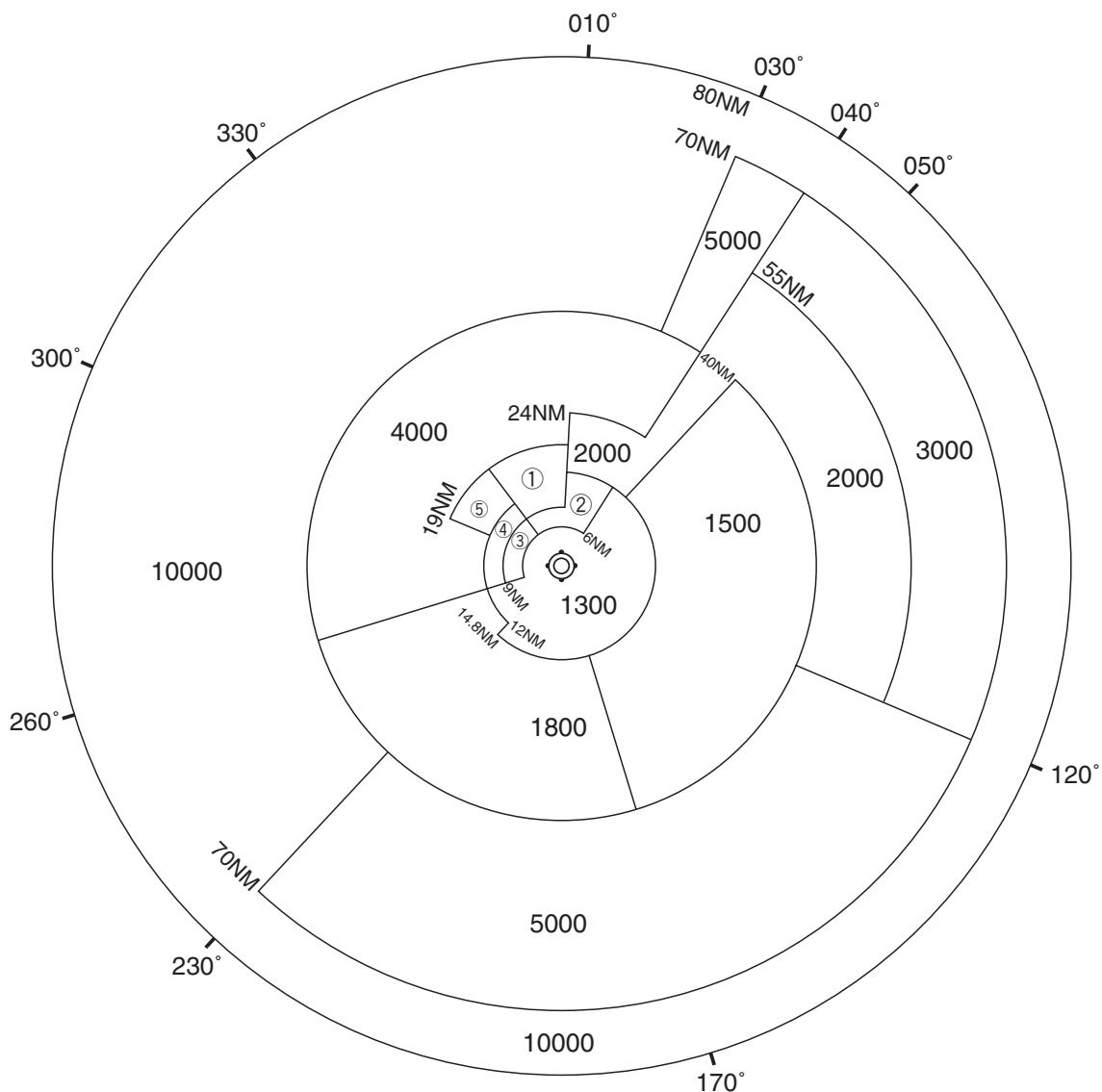
CHANGE : Description of SDF.

| 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

CENTER : 361108N/1402547E (RADAR SITE)