

TOKUSHIMA AD

VAR 8° W (2023)

184m

RWY THR ID LGT

CAB

NORTH APRON (CIVIL)

1 2 3 4

TAXIING GUIDANCE SIGN

NORTH PARALLEL TWY

PAPI Angle 3.0°
MEHT 22.5m (73ft)

N-1(NORTH-1)
WDI
7Δ1
SOUTH-1
454m

N-2(NORTH-2)
CGL
6Δ2
SOUTH-2

N-3(NORTH-3)
4Δ4
LDI WDI
SOUTH-3

N-4(NORTH-4)
4Δ4
SOUTH-4

N-5(NORTH-5)
3Δ5
WDI 2Δ6
SOUTH-5

N-6(NORTH-6)
488m
1Δ7
SOUTH-6

GP HOLD LINE

ILS
GP 329.3
DME CH-26X

PAPI Angle 3.0°
MEHT 20.0m (65.6ft)

RVR

D-SPOT

C-SPOT

SOUTH PARALLEL TWY

VORTAC(TSC)

TWR

B-SPOT

A-SPOT SOUTH APRON (JSDF-M)

SOUTH APRON (JSDF-G)

TAKE-OFF AIMING LIGHTS

★ ABN

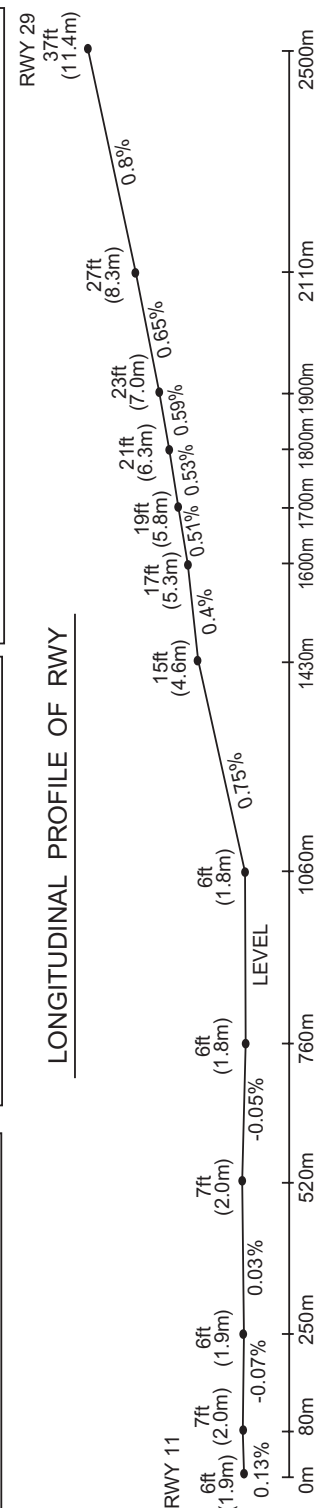
| REMARKS: RWY GROOVING WIDTH & STRENGTH OF TWY | 30m x 2500m |
|--|----------------|
| N-1(NORTH-1) | PCN 75/F/B/X/U |
| N-2(NORTH-2), N-3(NORTH-3), N-4(NORTH-4), N-5(NORTH-5) | PCN 75/F/B/X/U |
| N-6(NORTH-6) | PCN 70/F/A/X/U |
| NORTH PARL TWY | |
| (BTN N-1(NORTH-1) & N-5(NORTH-5)) | PCN 75/F/B/X/U |
| (BTN N-5(NORTH-5) & N-6(NORTH-6)) | PCN 70/F/A/X/U |
| NOTE : USABLE TWY FOR CIVIL ACFT ARE N-1(NORTH-1) THRU N-6(NORTH-6) & NORTH PARL STRENGTH OF NORTH APRON | PCN 72/R/B/X/U |

Example for MANDATORY INSTRUCTION MARKING

29-11 29-11

Installed on TWY N-1(NORTH-1) THRU N-6(NORTH-6)

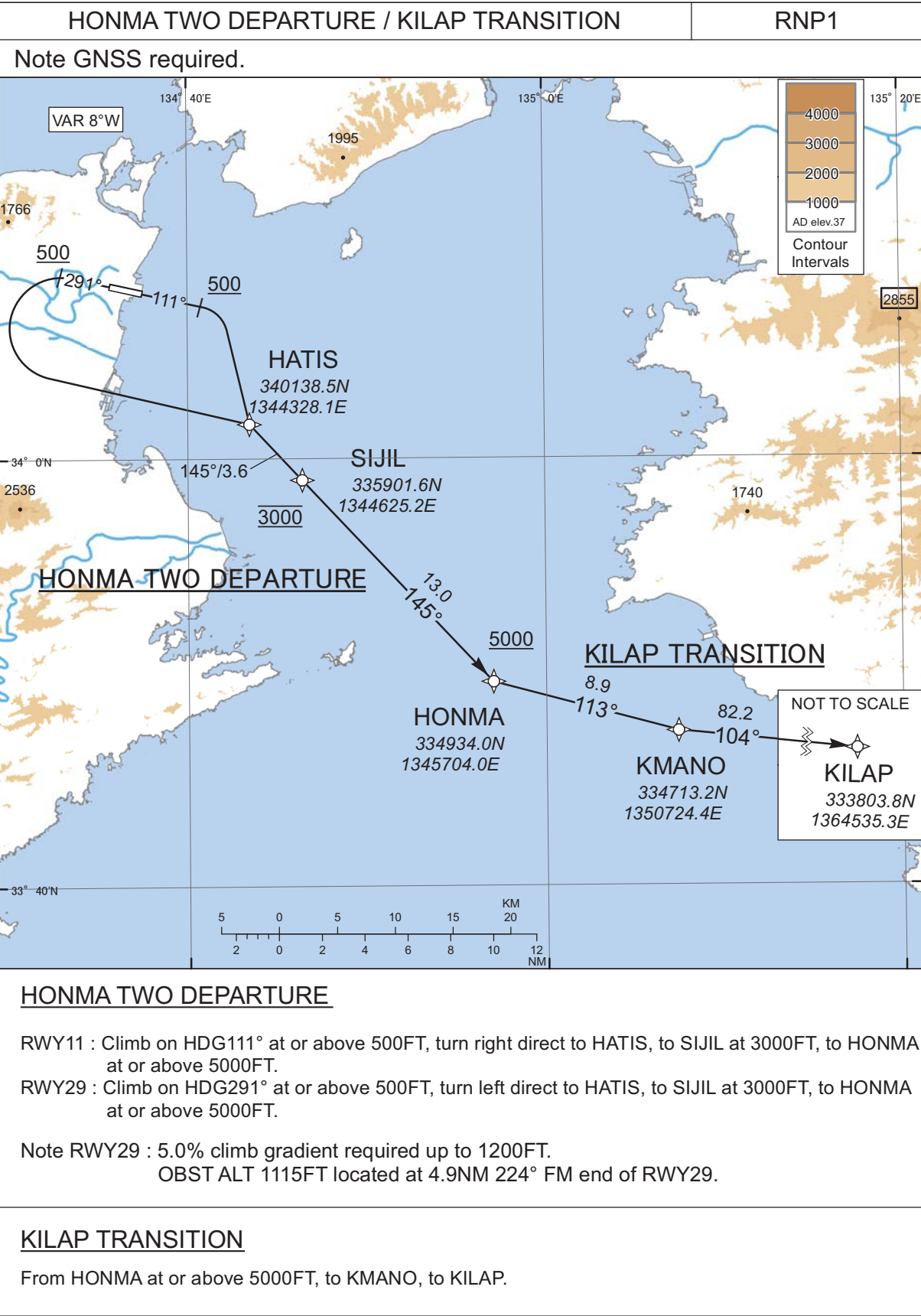
LONGITUDINAL PROFILE OF RWY



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STANDARD DEPARTURE CHART-INSTRUMENT

RJOS / TOKUSHIMA RNAV SID and TRANSITION



CHANGE : PROC course. PROC renamed(HONMA TWO DEPARTURE), Note. Navigation Specification(RNAV1 → RNP1).
TOKUSHIMA VORTAC, GOBOH DME, NANKI VOR/DME deleted.

STANDARD DEPARTURE CHART-INSTRUMENT

RJOS / TOKUSHIMA

RNAV SID and TRANSITION

HONMA TWO DEPARTURE

RWY11

| 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 | - | - | 111 (102.6) | -8.0 | - | - | +500 | - | - | RNP1 |
| 002 | DF | HATIS | - | - | -8.0 | - | R | - | - | - | RNP1 |
| 003 | TF | SIJIL | - | 145 (136.9) | -8.0 | 3.6 | - | 3000 | - | - | RNP1 |
| 004 | TF | HONMA | - | 145 (136.9) | -8.0 | 13.0 | - | +5000 | - | - | RNP1 |

RWY29

| 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 | - | - | 291 (282.6) | -8.0 | - | - | +500 | - | - | RNP1 |
| 002 | DF | HATIS | - | - | -8.0 | - | L | - | - | - | RNP1 |
| 003 | TF | SIJIL | - | 145 (136.9) | -8.0 | 3.6 | - | 3000 | - | - | RNP1 |
| 004 | TF | HONMA | - | 145 (136.9) | -8.0 | 13.0 | - | +5000 | - | - | RNP1 |

KILAP TRANSITION

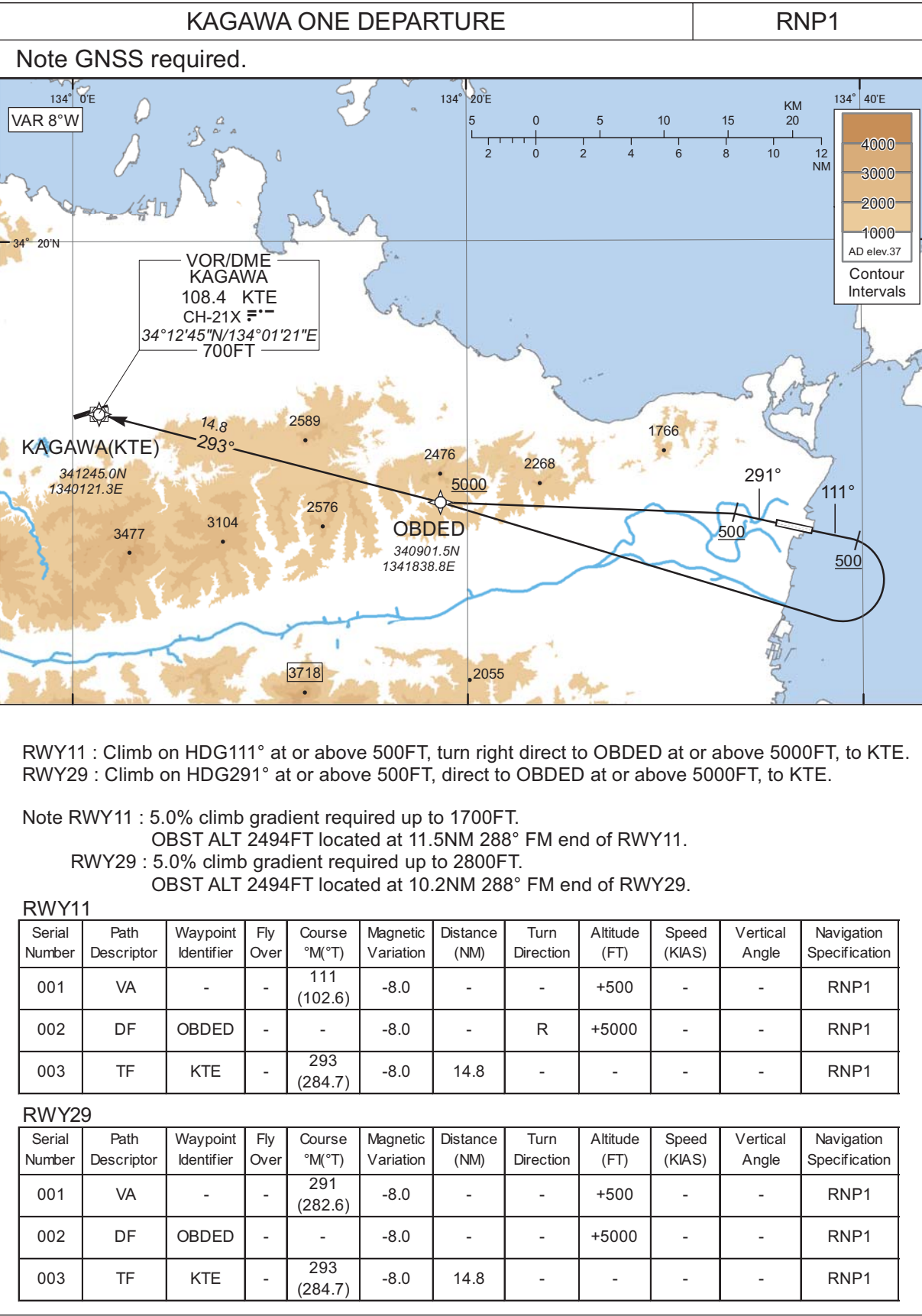
| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | HONMA | - | - | -8.0 | - | - | +5000 | - | - | RNP1 |
| 002 | TF | KMANO | - | 113 (105.2) | -8.0 | 8.9 | - | - | - | - | RNP1 |
| 003 | TF | KILAP | - | 104 (095.9) | -8.0 | 82.2 | - | - | - | - | RNP1 |

CHANGE : PROC course. PROC renamed(HONMA TWO DEPARTURE). Navigation Specification(RNAV1 → RNP1). VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

RJOS / TOKUSHIMA

RNAV SID



CHANGE : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

RJOS / TOKUSHIMA

SID

TOSAR SIX DEPARTURE

RWY11 : Climb RWY HDG to 500FT, turn right HDG232°...

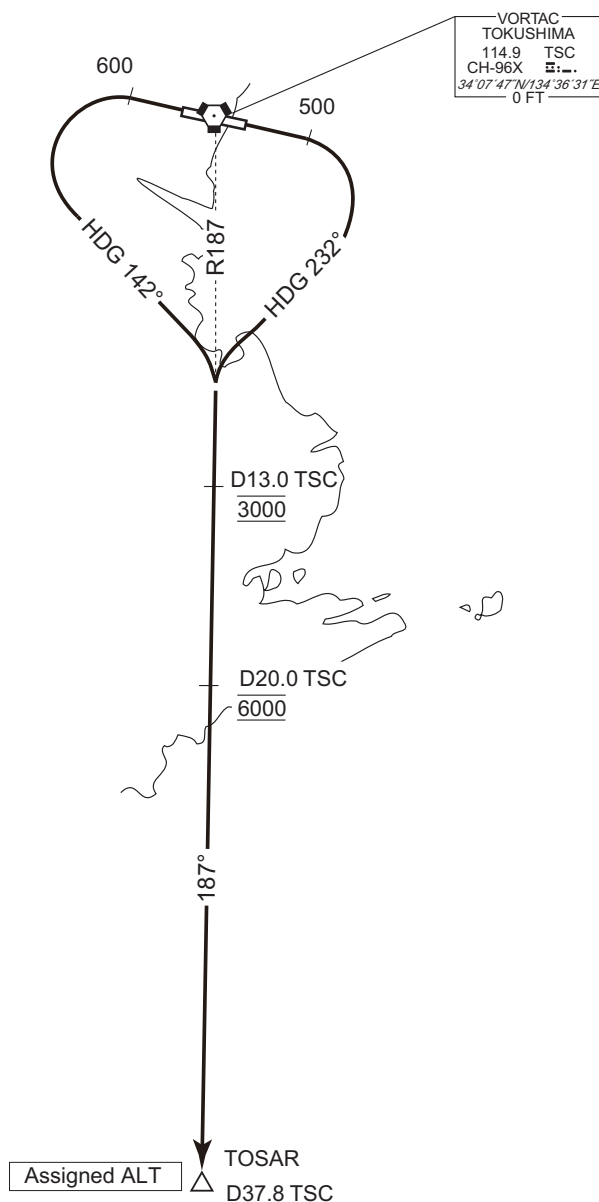
RWY29 : Climb RWY HDG to 600FT, turn left HDG142°...

...to intercept and proceed via TSC R187 to TOSAR.

Cross TSC R187/13.0DME at 3000FT, cross TSC R187/20.0DME at 6000FT, cross TOSAR at assigned altitude.

NOTE RWY29 : 4.0% climb gradient required up to 800FT.

OBST ALT 1105FT located at 5.0NM 224° FM end of RWY29.



CHANGE : PROC course. PROC renamed(TOSAR SIX DEPARTURE). Note.

STANDARD DEPARTURE CHART-INSTRUMENT

RJOS / TOKUSHIMA

SID

TOKUSHIMA REVERSAL SEVEN DEPARTURE

RWY11 : Climb RWY HDG to 500FT, turn right HDG205°...

RWY29 : Climb RWY HDG to 600FT, turn left HDG115°...

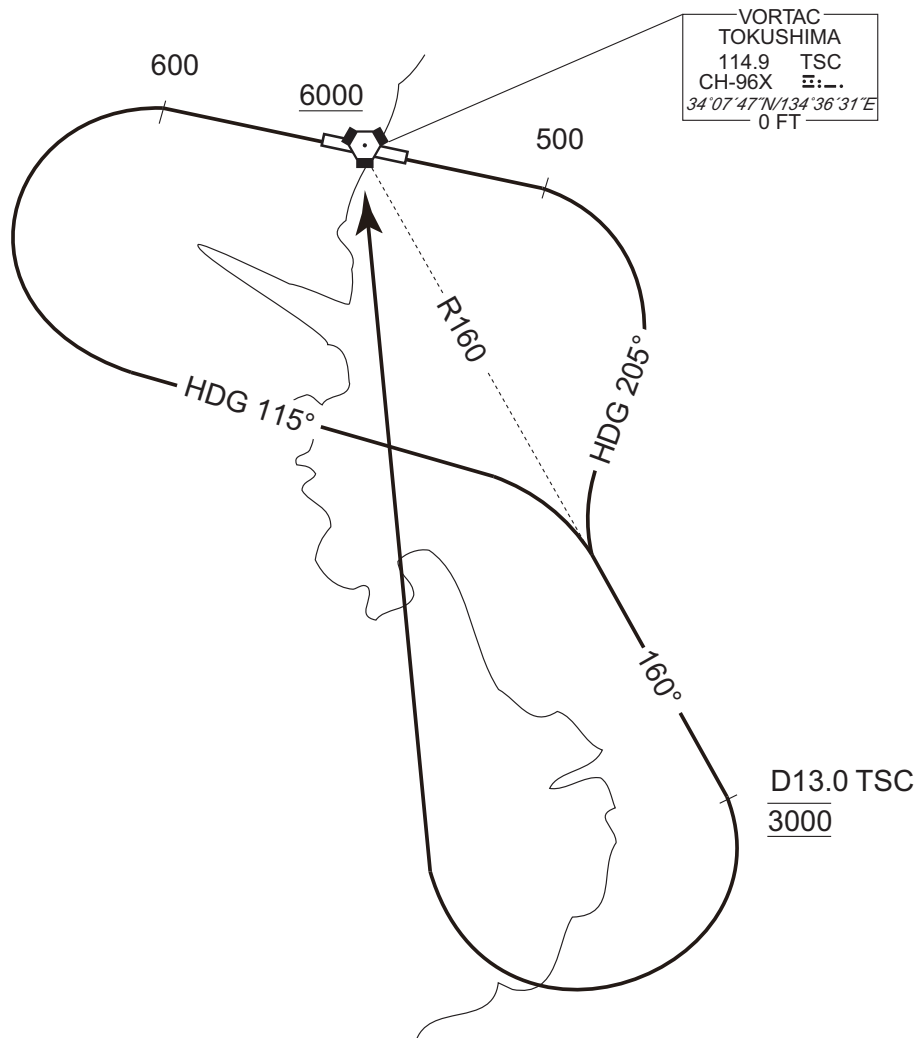
...to intercept and proceed via TSC R160 to 13.0DME, turn right, direct to TSC VORTAC.

Cross TSC R160/13.0DME at 3000FT, cross TSC VORTAC at or above 6000FT.

NOTE RWY29 : 4.0% climb gradient required up to 800FT.

OBST ALT 1105FT located at 5.0NM 224° FM end of RWY29.

CHANGE : PROC course. PROC renamed(TOKUSHIMA REVERSAL SEVEN DEPARTURE). Note.



STANDARD DEPARTURE CHART -INSTRUMENT

RJOS / TOKUSHIMA

SID and TRANSITION

MISAKI THREE DEPARTURE

RWY11 : Climb RWY HDG to 500FT, turn right,...

RWY29 : Climb RWY HDG to 600FT, turn left HDG098° to intercept and proceed...
...via TSC R143 to HONMA.

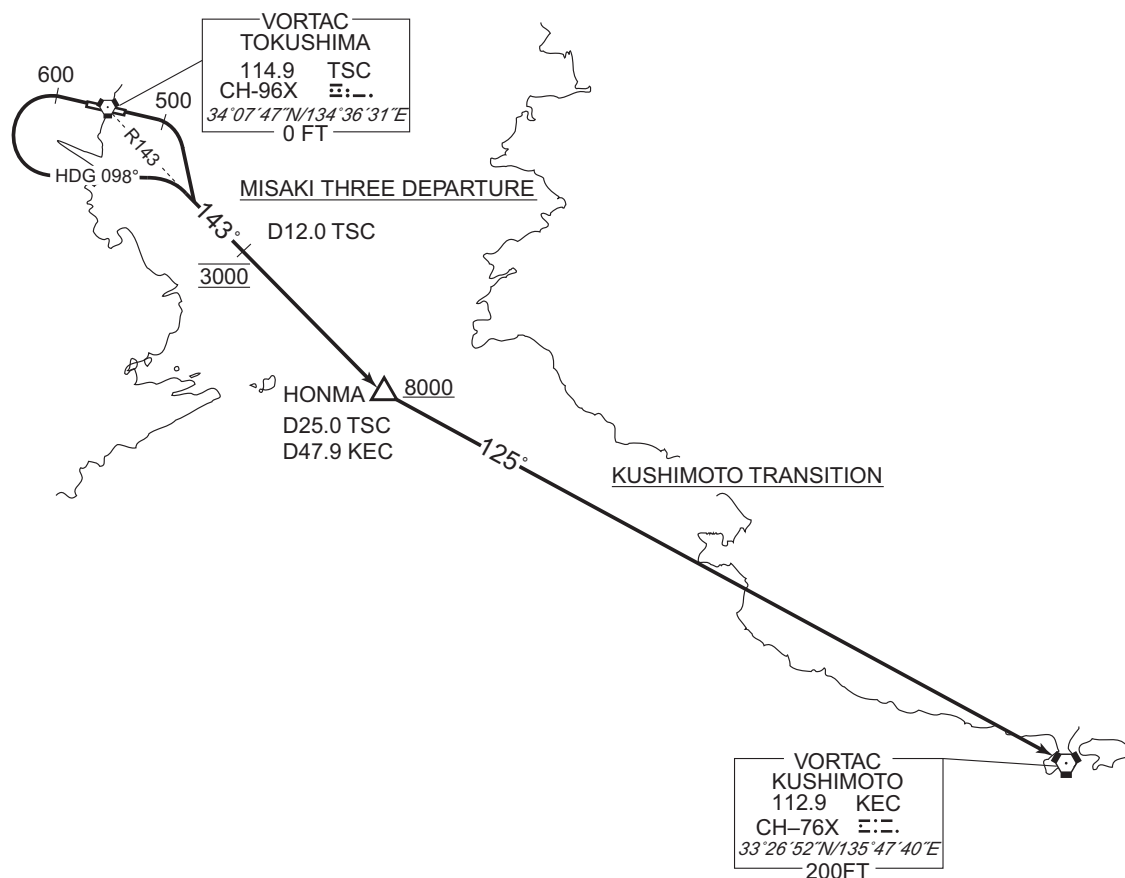
Cross TSC R143/12.0DME at 3000FT, cross HONMA at or above 8000FT.

NOTE RWY29 : 4.0% climb gradient required up to 800FT.

OBST ALT 1105FT located at 5.0NM 224° FM end of RWY29.

KUSHIMOTO TRANSITION

From over HONMA, via KEC R305 to KEC VORTAC.



CHANGE : PROC course. PROC renamed(MISAKI THREE DEPARTURE). Note(MISAKI THREE DEPARTURE).

STANDARD ARRIVAL CHART-INSTRUMENT

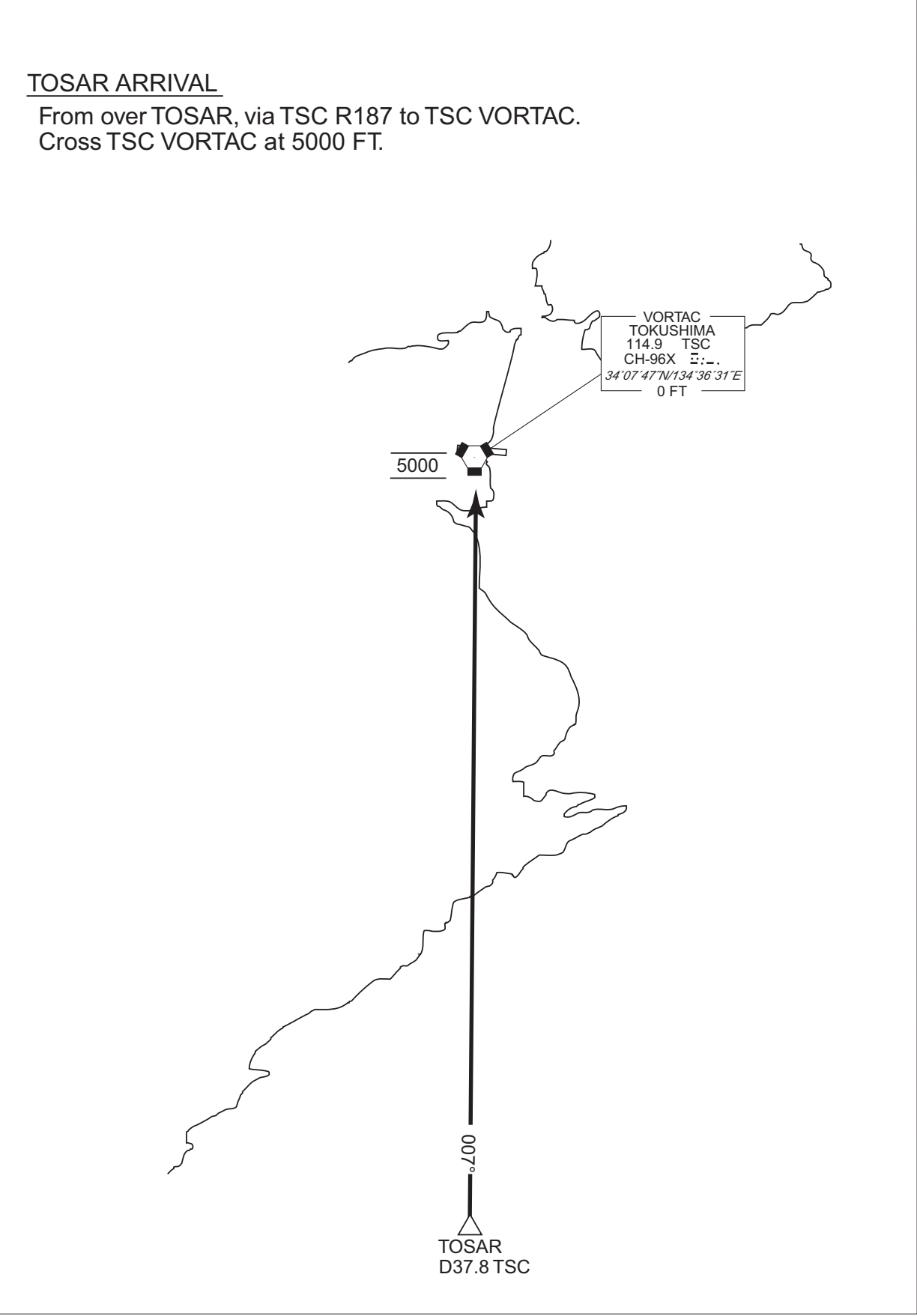
RJOS / TOKUSHIMA

STAR

TOSAR ARRIVAL

From over TOSAR, via TSC R187 to TSC VORTAC.
Cross TSC VORTAC at 5000 FT.

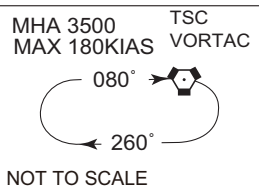
CHANGE : Distance FM TSC to TOSAR added.



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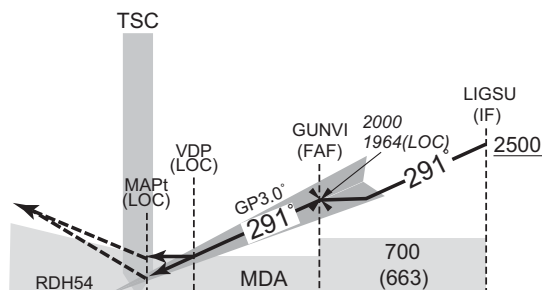
CHANGE : PROC course. Missed APCH PROC. MINIMA. ALT(3.0° APCH Path) established. HLDG pattern. EQPT REQUIRED. PROC ALT established. OCA/H established. ALT restriction. LIGSU, GUNVI established. DME to ITS. NM to THR.

ILS Z or LOC Z RWY 29

VAR 8°W (2023)

| NM to ITS | MAPt | 2 | 3 | 4 | 5 | FAF |
|----------------------|------|-----|-----|------|------|------|
| ALT (3.0° APCH Path) | — | 652 | 971 | 1289 | 1608 | 1964 |

Climb on HDG 291° to 800FT, turn left to intercept and proceed via TSC R160 to TSC 8.0DME, turn right, via TSC R190 to TSC VORTAC and hold at 3500FT.
Cross TSC R190/8.0DME at 3000FT.
Contact TOKUSHIMA APP.
Timing not authorized for defining the MAPt.



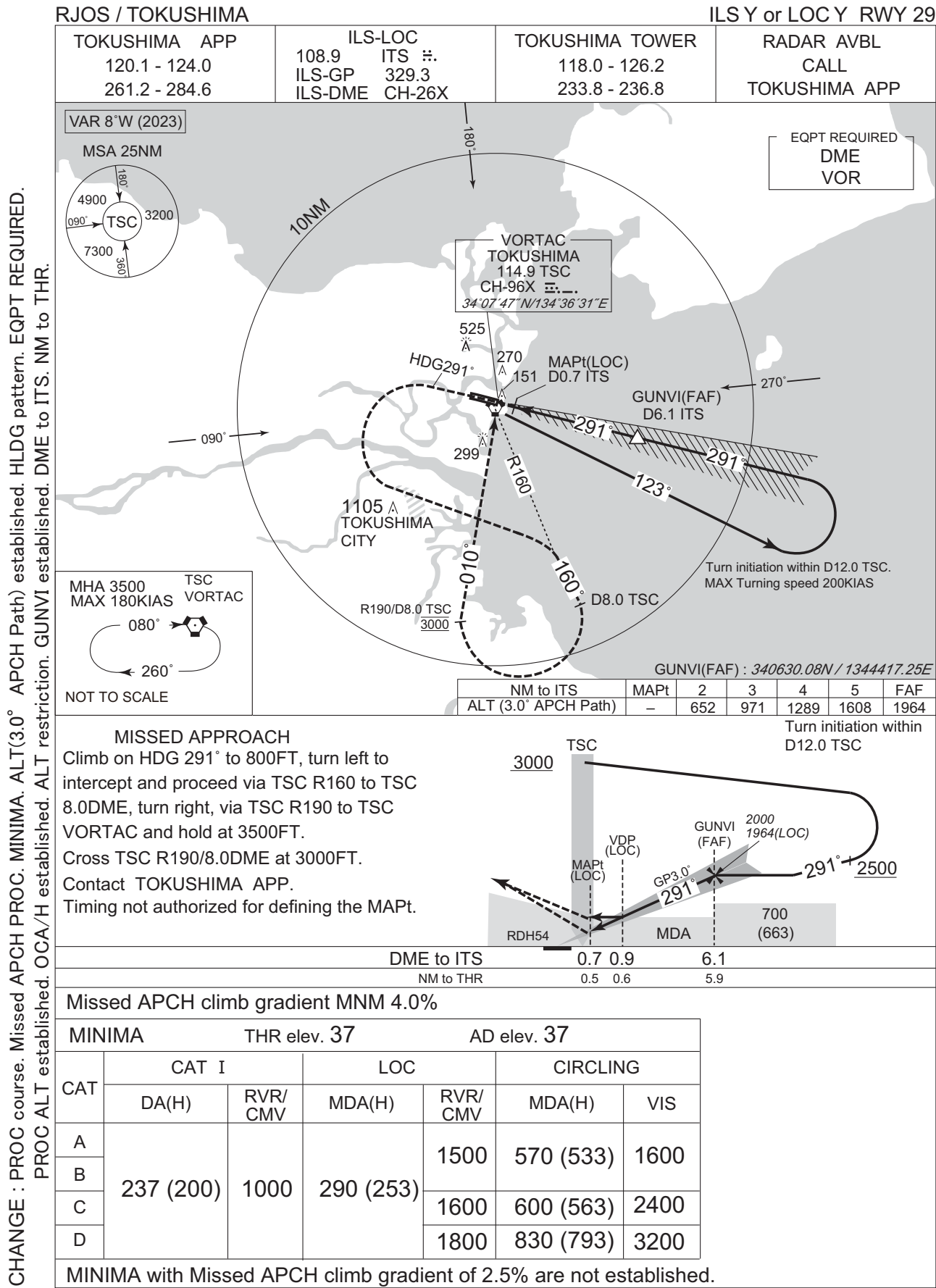
| | | | | |
|------------|-----|-----|-----|------|
| DME to ITS | 0.7 | 0.9 | 6.1 | 11.1 |
| NM to THR | 0.5 | 0.6 | 5.9 | 10.9 |

Missed APCH climb gradient MNM 4.0%

| MINIMA | | THR elev. 37 | | AD elev. 37 | | |
|--------|-----------|--------------|-----------|-------------|-----------|------|
| CAT | CAT I | | LOC | | CIRCLING | |
| | DA(H) | RVR/ CMV | MDA(H) | RVR/ CMV | MDA(H) | VIS |
| A | 237 (200) | 1000 | 290 (253) | 1500 | 570 (533) | 1600 |
| B | | | | | | |
| C | | | | 1600 | 600 (563) | 2400 |
| D | | | | 1800 | 830 (793) | 3200 |

MINIMA with Missed APCH climb gradient of 2.5% are not established.

INSTRUMENT APPROACH CAHRT

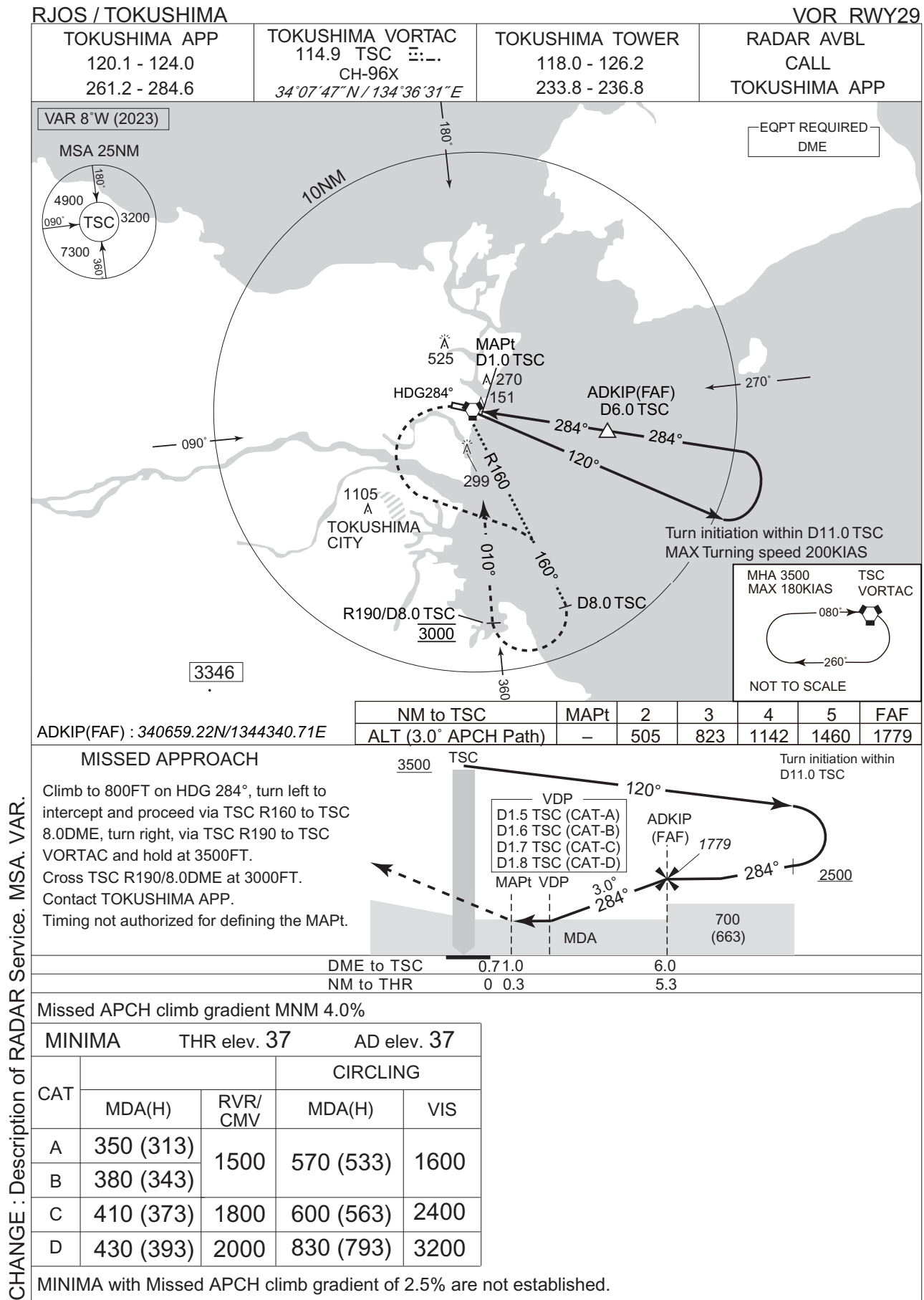


CHANGE : PROC course. Missed APCH PROC. MINIMA. ALT(3.0° APCH Path) established. HLDG pattern. EQPT REQUIRED. PROC ALT established. OCA/H established. ALT restriction. GUNVI established. DME to ITS. NM to THR.

CHANGE : PROC course. Missed APCH PROC. MINIMA. ALT(3.0° APCH Path) established. HLDG pattern. PROC ALT established. OCA/H established. ALT restriction. ENSES, IRTUG, GUNVI established. ANANN abolished. DME to ITS. NM to THR.



INSTRUMENT APPROACH CHART



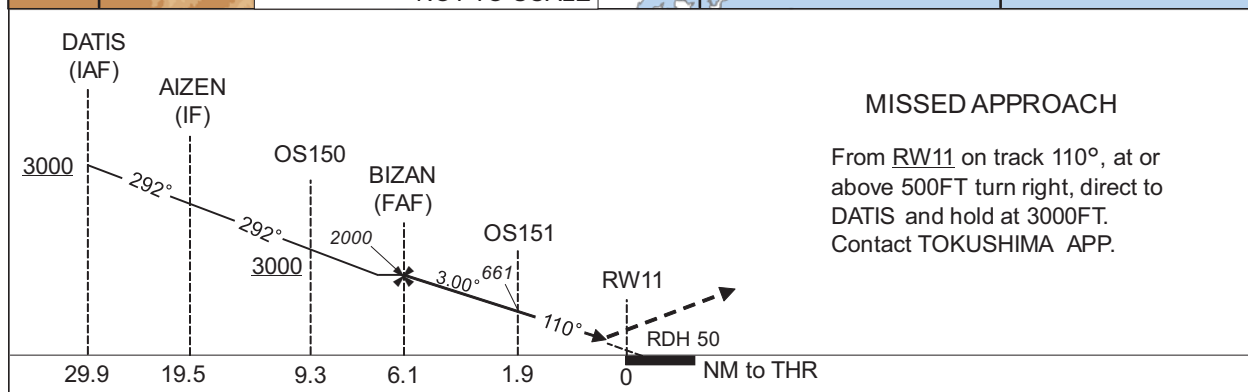
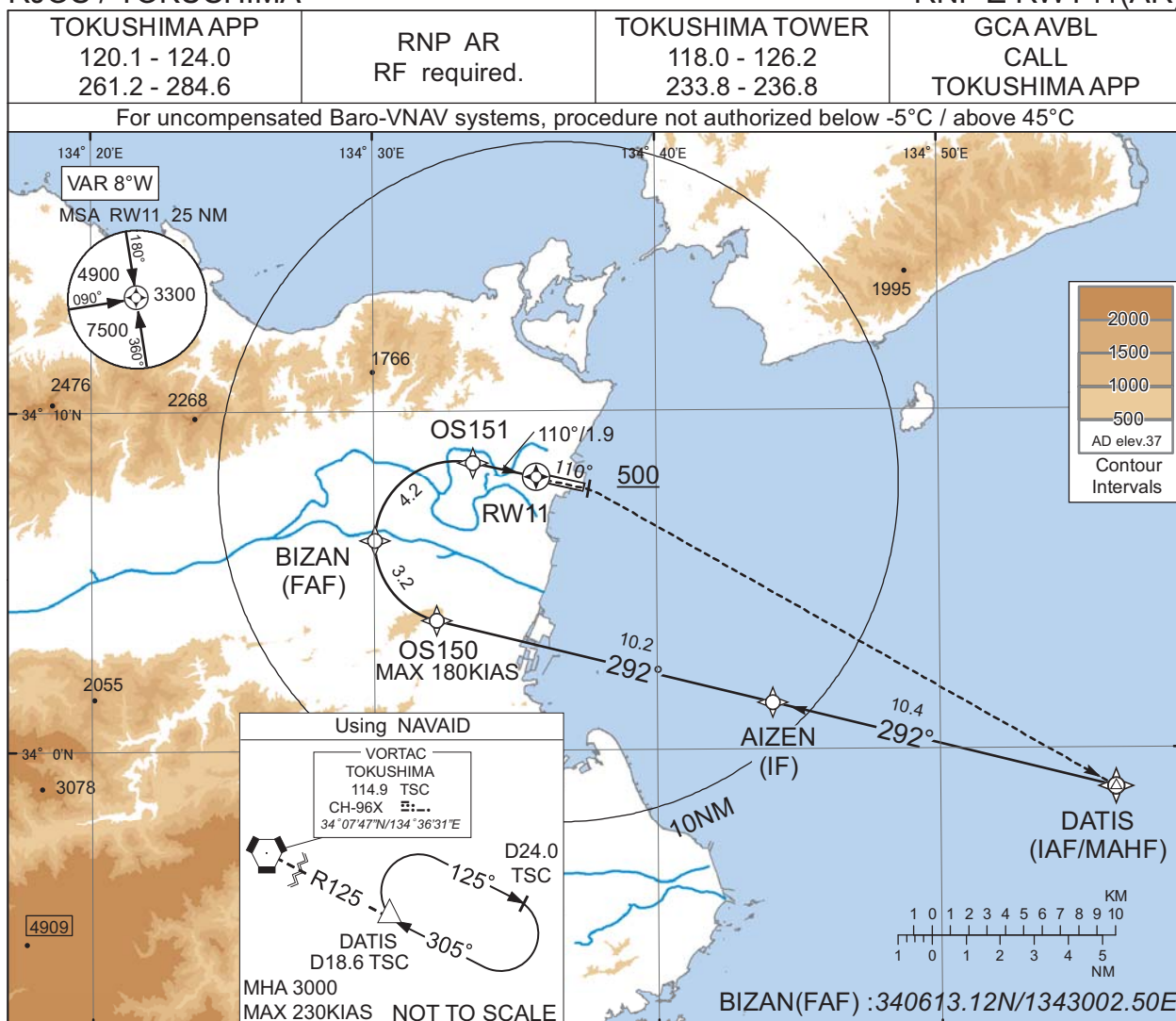
CHANGE : PROC course. Missed APCH PROC. MINIMA. HLDG pattern. OCA/H established. ENSES,INVUX,OTKEV established. ANANN abolished. DME to TSC. Description of RADAR Service. MSA. VAR.



INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA

RNP Z RWY11(AR)



Missed APCH climb gradient MNM 5.0%

| CAT | THR elev. 6 | | AD elev. 37 | |
|-----|-------------|------|-------------|------|
| | RNP 0.15 | | RNP 0.30 | |
| | DA(H) | CMV | DA(H) | CMV |
| A | - | - | - | - |
| B | - | - | - | - |
| C | 306(300) | 1400 | 362(356) | 1400 |
| D | | 1600 | | 1600 |

MINIMA with Missed APCH climb gradient of 2.5% are not established.

Authorization Required

CHANGE : Description of VAR.

INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA

RNP Z RWY11(AR)

Coding Table

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | VPA/ RDH (°/FT) | RNP Value |
|---------------|------------------------------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|-----------------|--------------|
| 001 | IF | DATIS | - | - | -7.8 | - | - | +3000 | - | - | - |
| 002 | TF | AIZEN | - | 292 (284.2) | -7.8 | 10.4 | - | - | - | - | 1.0 |
| 003 | TF | OS150 | - | 292 (284.1) | -7.8 | 10.2 | - | +3000 | -180 | - | 0.3 |
| 004 | RF Center: OSRF2 r=2.38NM | BIZAN | - | - | -7.8 | 3.2 | R | 2000 | - | - | 0.3 |
| 005 | RF Center: OSRF2 r=2.38NM | OS151 | - | - | -7.8 | 4.2 | R | 661 | - | -3.00 | 0.15 0.30 |
| 006 | TF | RW11 | Y | 110 (102.6) | -7.8 | 1.9 | - | 56 | - | -3.00/50 | 0.15 0.30 |
| 007 | FA | - | - | 110 (102.6) | -7.8 | - | - | +500 | - | - | 1.0 |
| 008 | DF | DATIS | - | - | -7.8 | - | R | 3000 | - | - | 1.0 |

Waypoint Coordinates

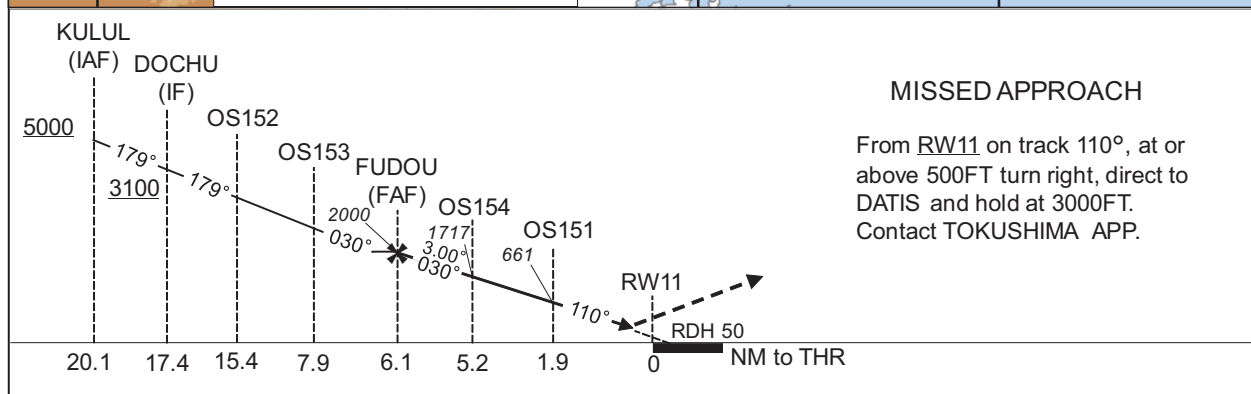
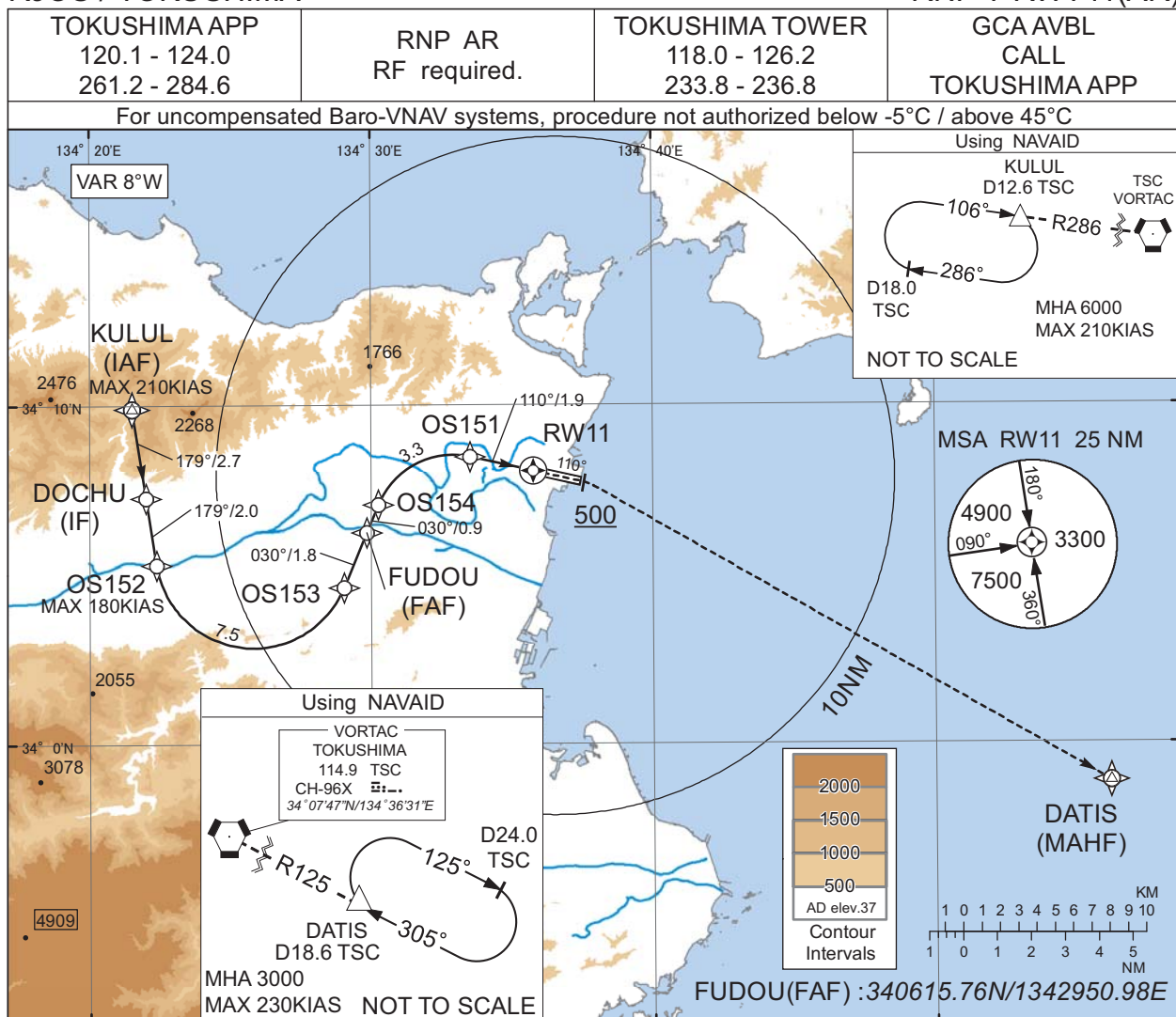
| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|--------------------------|--------------------------|--------------------------|
| DATIS | 335851.96N / 1345613.14E | OSRF2 | 340610.26N / 1343254.26E |
| AIZEN | 340123.97N / 1344405.59E | | |
| OS150 | 340351.55N / 1343212.95E | | |
| BIZAN | 340613.12N / 1343002.50E | | |
| OS151 | 340829.79N / 1343331.39E | | |
| RW11 | 340804.98N / 1343545.74E | | |

CHANGE : PROC renamed.

INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA

RNP Y RWY11(AR)



Missed APCH climb gradient MNM 5.0%

| CAT | THR elev. 6 | | AD elev. 37 | |
|-----|-------------|------|-------------|------|
| | RNP 0.15 | | RNP 0.30 | |
| | DA(H) | CMV | DA(H) | CMV |
| A | - | - | - | - |
| B | - | - | - | - |
| C | 306(300) | 1400 | 362(356) | 1400 |
| D | | 1600 | | 1600 |

MINIMA with Missed APCH climb gradient of 2.5% are not established.

Authorization Required

CHANGE : Description of VAR.

INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA

RNP Y RWY11(AR)

Coding Table

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | VPA/ RDH (°/FT) | RNP Value |
|---------------|------------------------------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|-----------------|--------------|
| 001 | IF | KULUL | - | - | -7.8 | - | - | +5000 | -210 | - | - |
| 002 | TF | DOCHU | - | 179 (171.2) | -7.8 | 2.7 | - | +3100 | - | - | 0.3 |
| 003 | TF | OS152 | - | 179 (171.2) | -7.8 | 2.0 | - | - | -180 | - | 0.3 |
| 004 | RF Center: OSRF1 r=2.88NM | OS153 | - | - | -7.8 | 7.5 | L | - | - | - | 0.3 |
| 005 | TF | FUDOU | - | 030 (022.4) | -7.8 | 1.8 | - | 2000 | - | - | 0.3 |
| 006 | TF | OS154 | - | 030 (022.4) | -7.8 | 0.9 | - | 1717 | - | -3.00 | 0.15 0.30 |
| 007 | RF Center: OSRF2 r=2.38NM | OS151 | - | - | -7.8 | 3.3 | R | 661 | - | -3.00 | 0.15 0.30 |
| 008 | TF | RW11 | Y | 110 (102.6) | -7.8 | 1.9 | - | 56 | - | -3.00/50 | 0.15 0.30 |
| 009 | FA | - | - | 110 (102.6) | -7.8 | - | - | +500 | - | - | 1.0 |
| 010 | DF | DATIS | - | - | -7.8 | - | R | 3000 | - | - | 1.0 |

Waypoint Coordinates

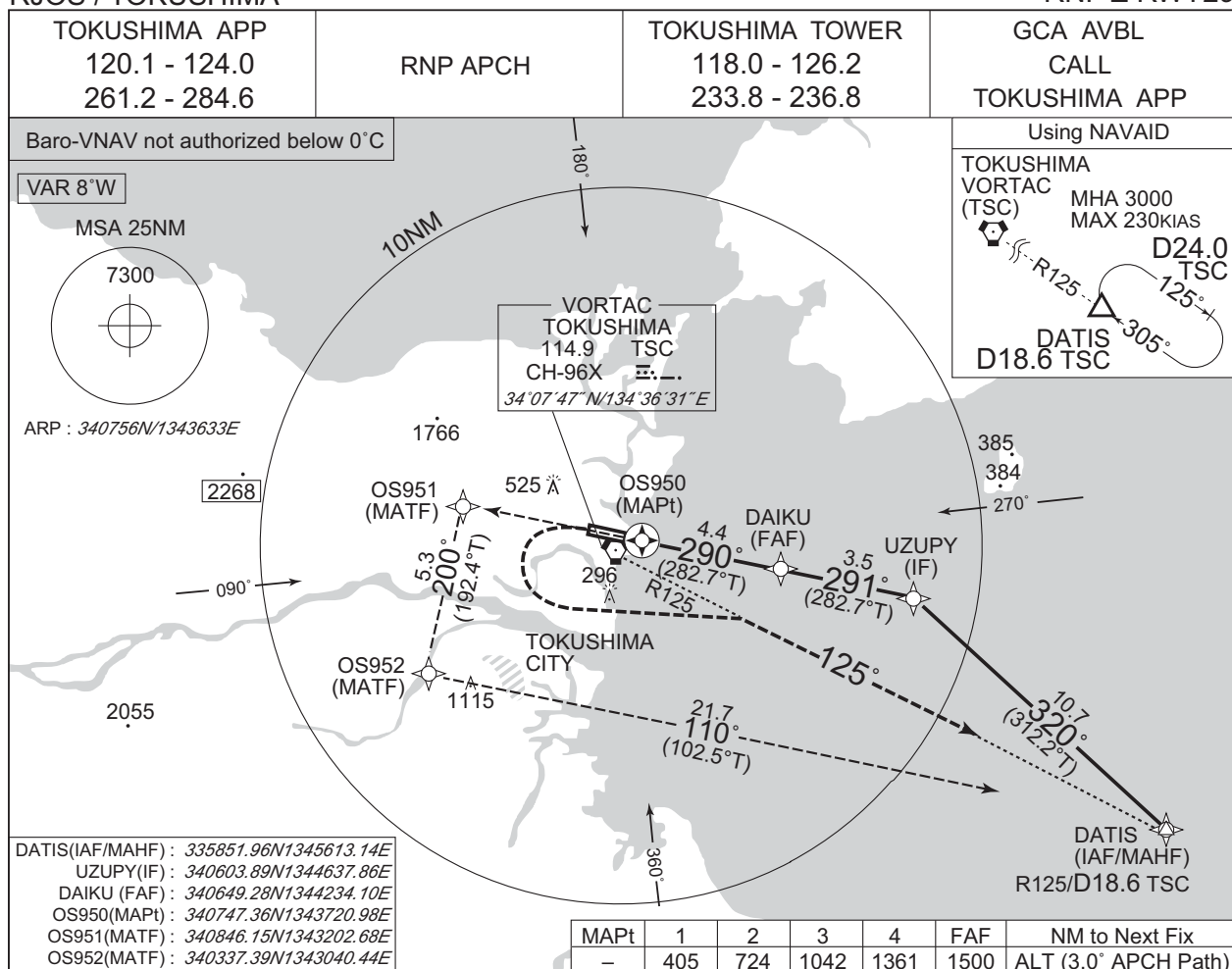
| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|--------------------------|--------------------------|--------------------------|
| KULUL | 340954.74N / 1342131.22E | OSRF1 | 340544.73N / 1342549.48E |
| DOCHU | 340716.80N / 1342200.89E | OSRF2 | 340610.26N / 1343254.26E |
| OS152 | 340517.99N / 1342223.19E | | |
| OS153 | 340438.24N / 1342902.35E | | |
| FUDOU | 340615.76N / 1342950.98E | | |
| OS154 | 340705.08N / 1343015.59E | | |
| OS151 | 340829.79N / 1343331.39E | | |
| RW11 | 340804.98N / 1343545.74E | | |
| DATIS | 335851.96N / 1345613.14E | | |

CHANGE : PROC renamed.

INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA

RNP Z RWY29

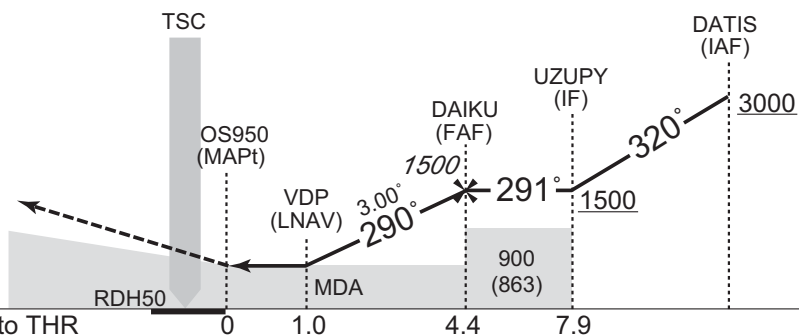


MISSED APPROACH

Climb to 3000FT direct to OS951,
to OS952, to DATIS and hold.
Contact TOKUSHIMA APP.

(For using VORTAC)

Climb on HDG290° to 800FT,
turn left climb to 3000FT via TSC
R125 to DATIS and hold.
Contact TOKUSHIMA APP.



Missed APCH climb gradient MNM 5.0%

| MINIMA | | THR elev. 37 | | AD elev. 37 | | |
|--------|-----------|--------------|-----------|-------------|-----------|------|
| CAT | LNAV/VNAV | | LNAV | | CIRCLING | |
| | DA(H) | RVR/ CMV | MDA(H) | RVR/ CMV | MDA(H) | VIS |
| A | 380 (343) | 1500 | 380 (343) | 1500 | 580 (543) | 1600 |
| B | | | | 1800 | 600 (563) | 2400 |
| C | | 1800 | | 2000 | 840 (803) | 3200 |
| D | | 2000 | | | | |

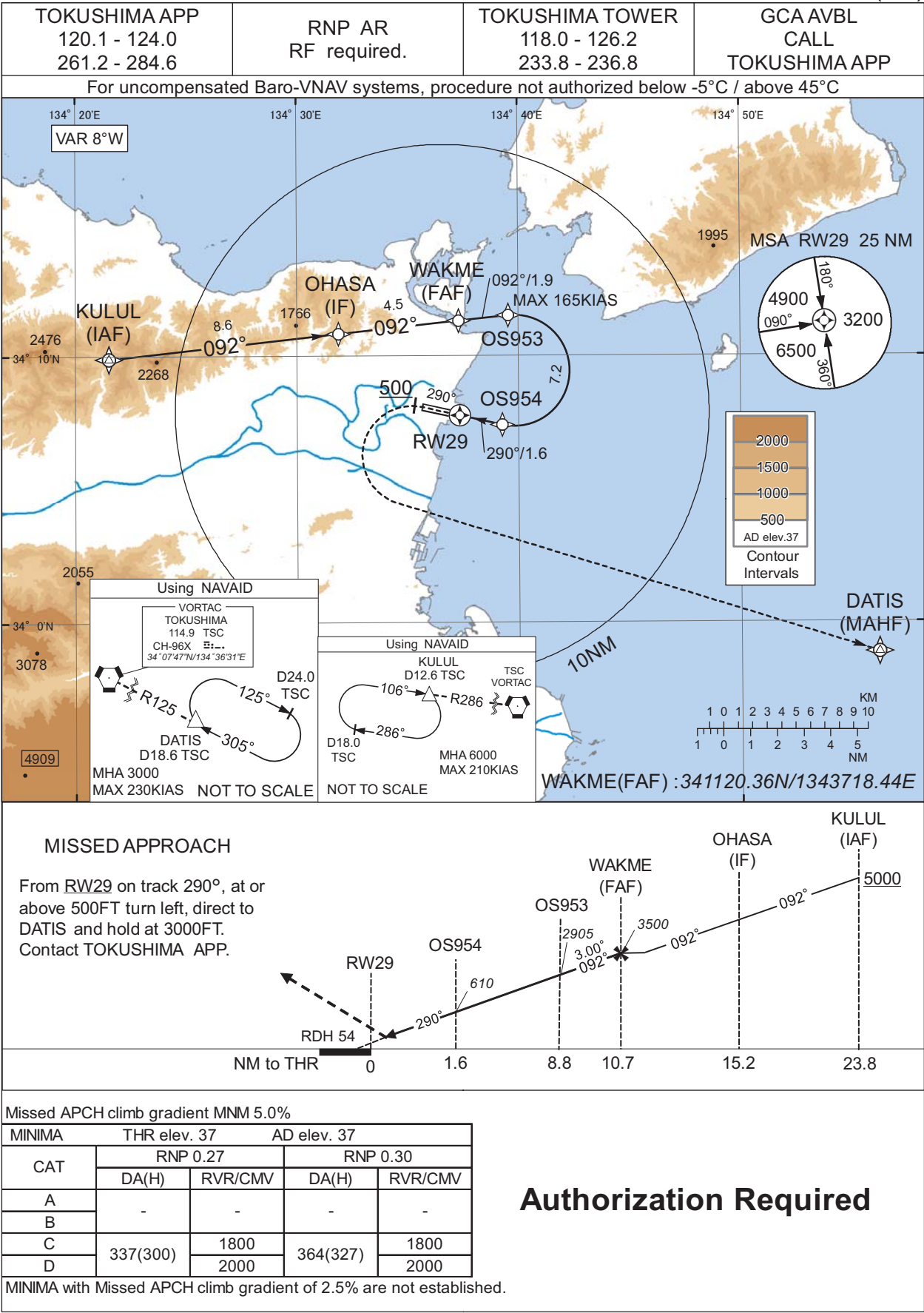
MINIMA with Missed APCH climb gradient of 2.5% are not established.

CHANGE : Description of VAR.

INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA

RNP Y RWY29(AR)



INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA

RNP Y RWY29(AR)

Coding Table

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | VPA/ RDH (°/FT) | RNP Value |
|---------------|------------------------------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|-----------------|--------------|
| 001 | IF | KULUL | - | - | -7.8 | - | - | +5000 | - | - | - |
| 002 | TF | OHASA | - | 092 (083.7) | -7.8 | 8.6 | - | - | - | - | 1.0 |
| 003 | TF | WAKME | - | 092 (083.8) | -7.8 | 4.5 | - | 3500 | - | - | 0.7 |
| 004 | TF | OS953 | - | 092 (083.8) | -7.8 | 1.9 | - | 2905 | -165 | -3.00 | 0.27 0.30 |
| 005 | RF Center: OSRF3 r=2.08NM | OS954 | - | - | -7.8 | 7.2 | R | 610 | - | -3.00 | 0.27 0.30 |
| 006 | TF | RW29 | Y | 290 (282.6) | -7.8 | 1.6 | - | 91 | - | -3.00/54 | 0.27 0.30 |
| 007 | FA | - | - | 290 (282.6) | -7.8 | - | - | +500 | - | - | 1.0 |
| 008 | DF | DATIS | - | - | -7.8 | - | L | 3000 | - | - | 1.0 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|--------------------------|--------------------------|--------------------------|
| KULUL | 340954.74N / 1342131.22E | OSRF3 | 340928.04N / 1343948.74E |
| OHASA | 341051.19N / 1343153.12E | | |
| WAKME | 341120.36N / 1343718.44E | | |
| OS953 | 341132.33N / 1343932.73E | | |
| OS954 | 340726.04N / 1343916.02E | | |
| RW29 | 340747.36N / 1343720.97E | | |
| DATIS | 335851.96N / 1345613.14E | | |

CHANGE : PROC renamed.

RJOS / TOKUSHIMA

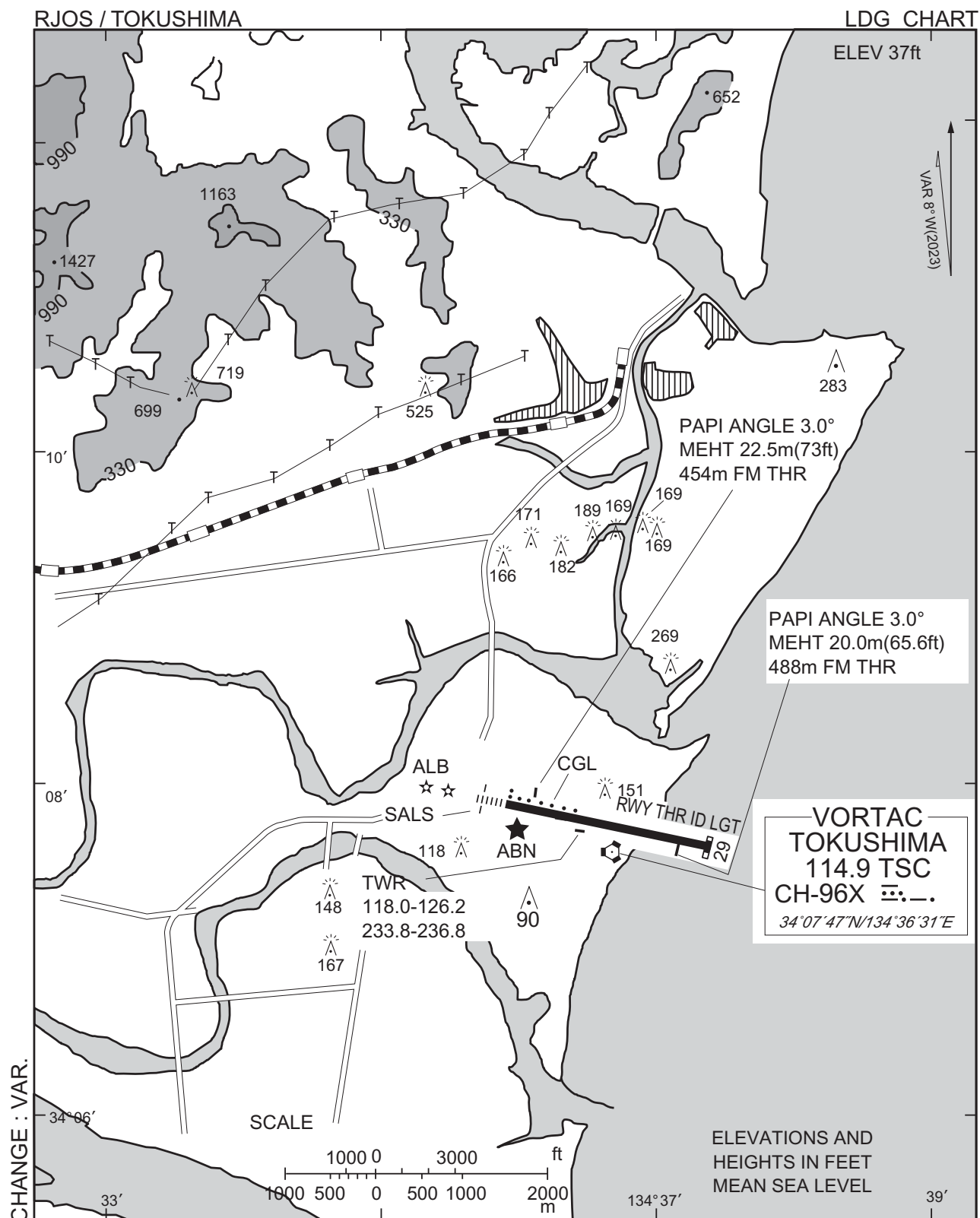
Visual REP



※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

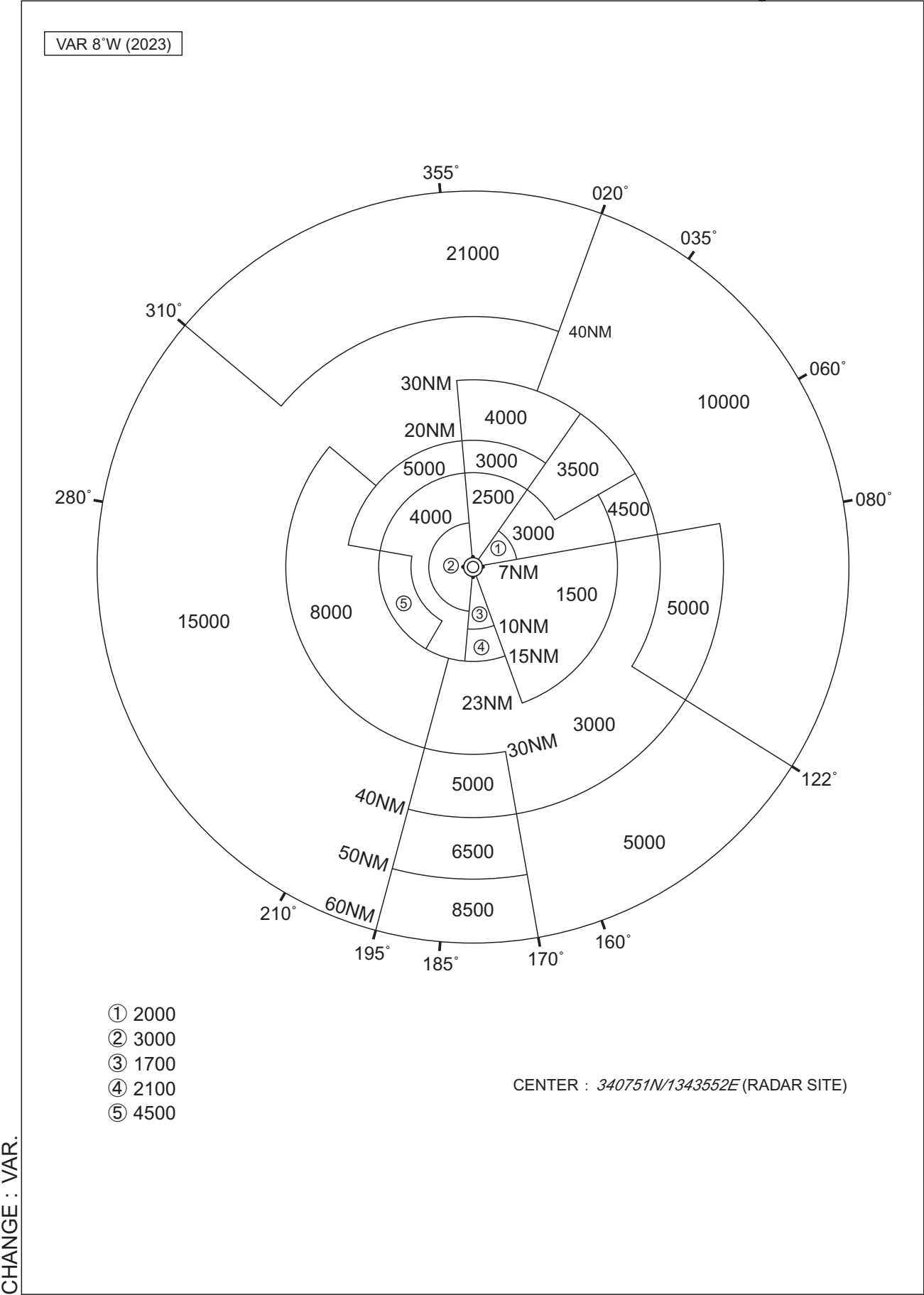
CHANGE : VAR.

| Call sign | BRG / DIST from ARP | Remarks |
|----------------------------|---------------------|------------------------------------|
| 福良 Fukura | 037°T / 9.0NM | 港 Harbor |
| 岡崎 Okazaki | 029°T / 3.3NM | 灯台 Lighthouse |
| 沼島 Nushima | 079°T / 11.1NM | 灯台 Lighthouse |
| 吉野イニシャル Yoshino Initial | 248°T / 4.5NM | 鉄道橋中央 The center of iron bridge |
| 吉野リバー Yoshino River | 188°T / 3.3NM | 吉野川河口 River mouth |



RJOS / TOKUSHIMA

Minimum Vectoring Altitude CHART



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