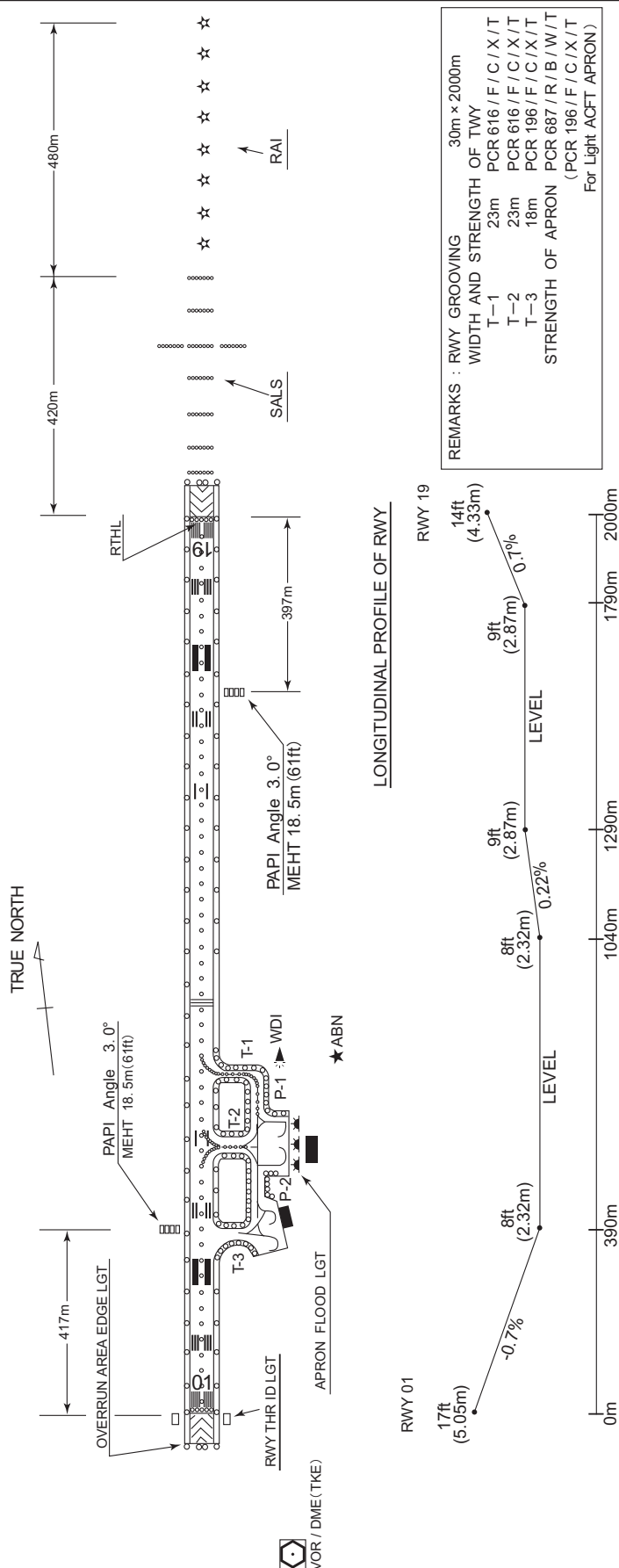


## AD CHART

CHANGE : Description of strength of pavement.



STANDARD DEPARTURE CHART -INSTRUMENT

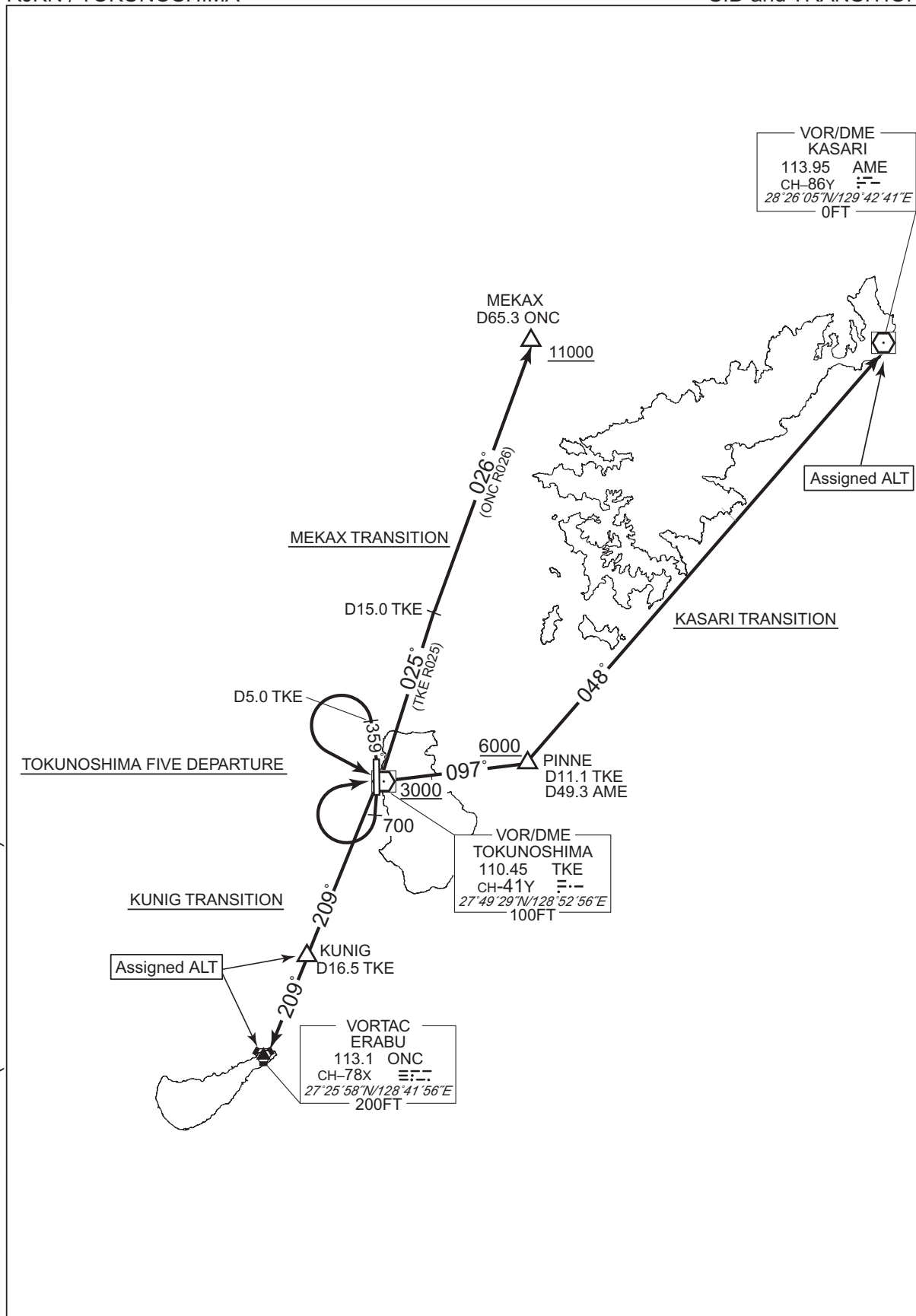
| RJKN / TOKUNOSHIMA   | SID and TRANSITION |
|--|--------------------|
| <div><div>CHANGE : PROC course(KASARI TRANSITION).</div><div><div><div><div><div><div>TOKUNOSHIMA FIVE DEPARTURE</div><div>RWY01 : Climb via TKE R359 to 5.0DME, turn left,...</div><div>RWY19 : Climb RWY HDG to 700FT, turn right,...</div><div>...direct to TKE VOR/DME.</div><div>Cross TKE VOR/DME at or above 3000FT.</div><div>Note RWY01 : 4.9% climb gradient required up to 1600FT.</div><div>OBST ALT 427FT located at 1.4NM 029° FM end of RWY01.</div><div>Note RWY19 : No turn before DER.</div><div><div>KUNIG TRANSITION</div><div>From over TKE VOR/DME, via TKE R209 to KUNIG or ONC VORTAC.</div><div>Cross KUNIG or ONC VORTAC at assigned altitude.</div><div><div>MEKAX TRANSITION</div><div>From over TKE VOR/DME, via TKE R025 to 15.0DME, via ONC R026 to MEKAX.</div><div>Cross MEKAX at or above 11000FT.</div><div><div>KASARI TRANSITION</div><div>From over TKE VOR/DME, via TKE R097 to PINNE, via AME R228 to AME VOR/DME.</div><div>Cross PINNE at or above 6000FT, cross AME VOR/DME at assigned altitude.</div></div></div></div></div></div></div></div></div></div> |                    |

## STANDARD DEPARTURE CHART -INSTRUMENT

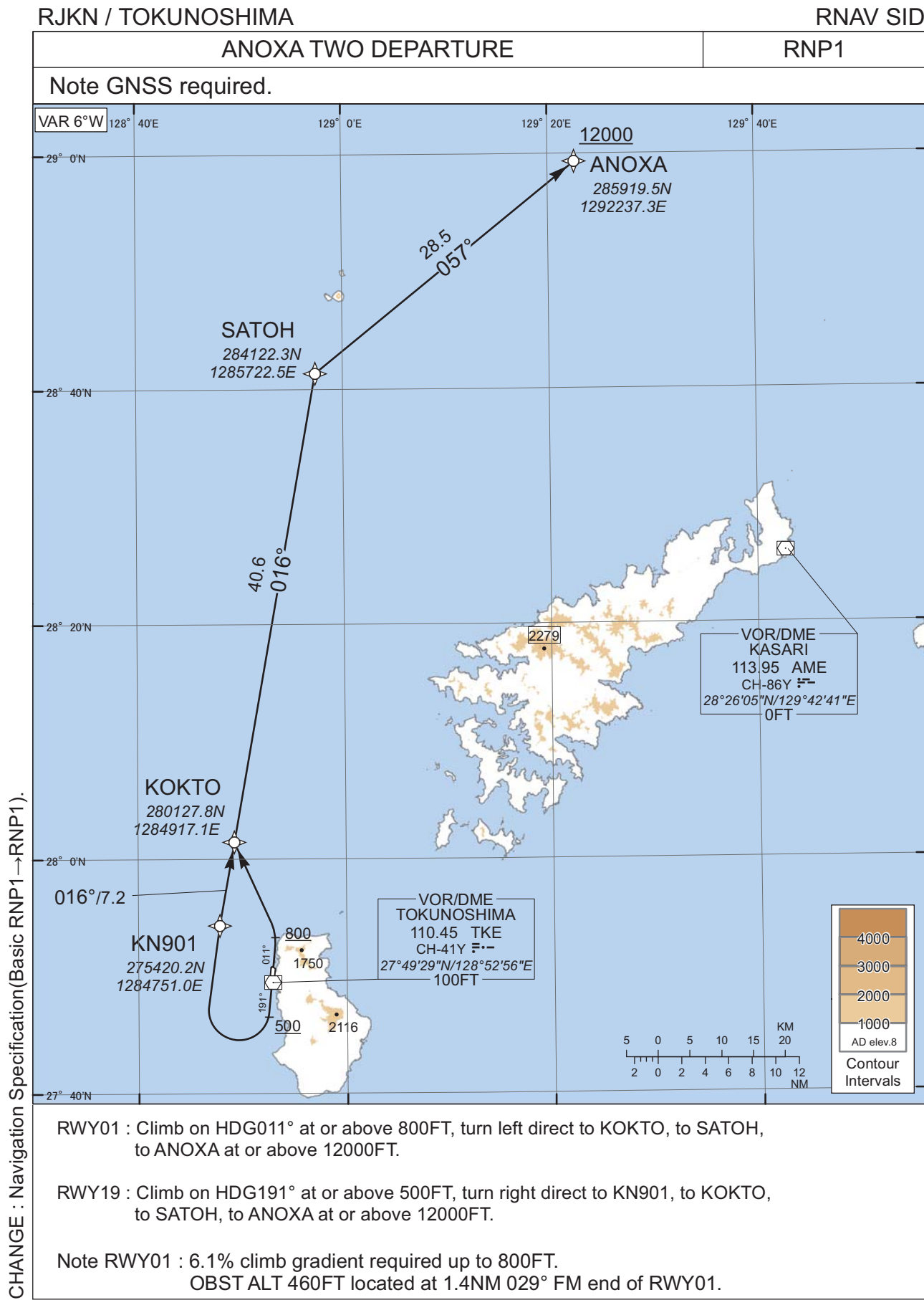
RJKN / TOKUNOSHIMA

SID and TRANSITION

CHANGE : PROC course(KASARI TRANSITION).



STANDARD DEPARTURE CHART -INSTRUMENT



STANDARD DEPARTURE CHART -INSTRUMENT

RJKN / TOKUNOSHIMA

RNAV SID

ANOXA TWO DEPARTURE

RWY01

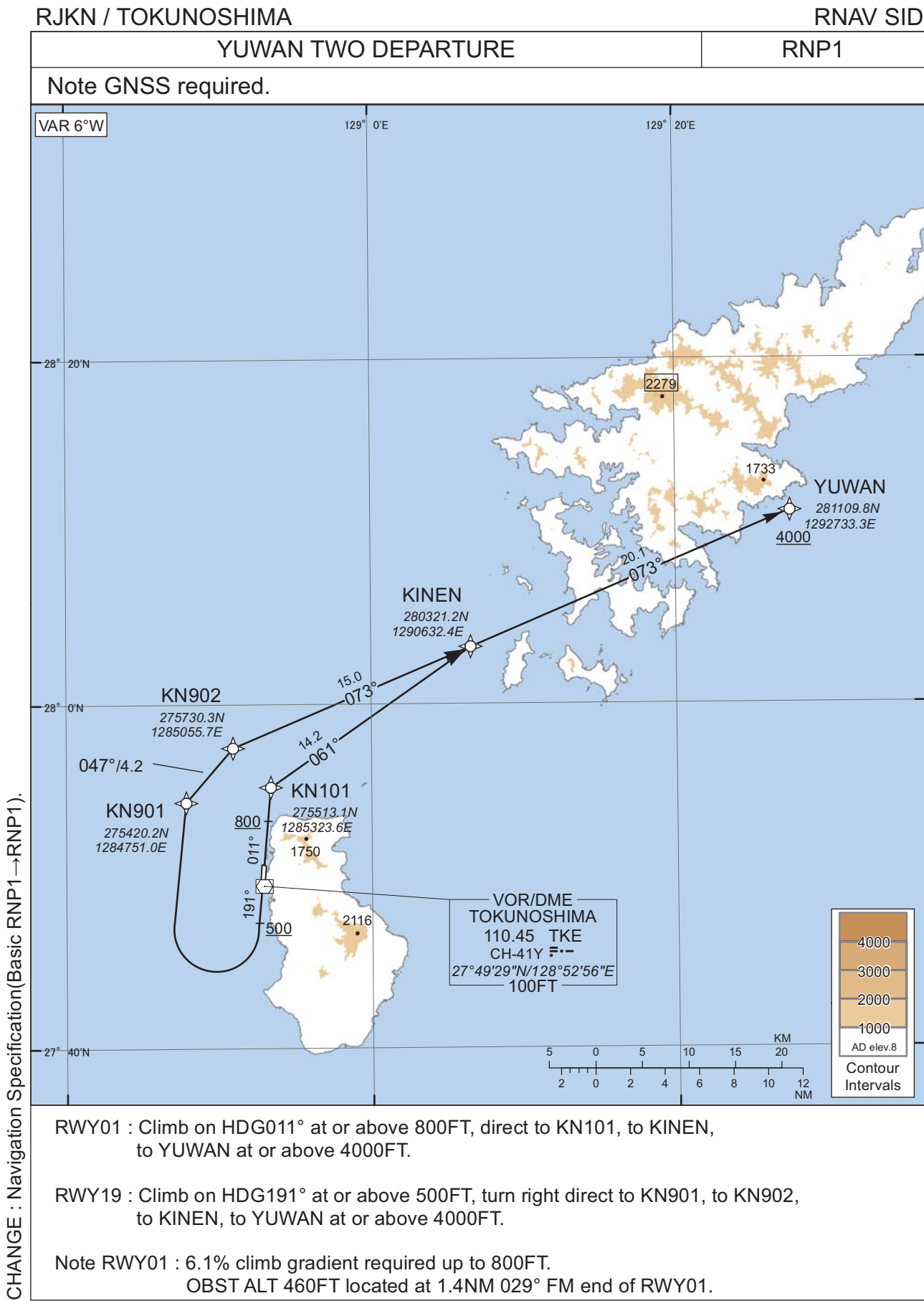
| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T)  | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001           | VA              | -                   | -        | 011<br>(005.1) | -6.1               | -             | -              | +800          | -            | -              | RNP1                     |
| 002           | DF              | KOKTO               | -        | -              | -6.1               | -             | L              | -             | -            | -              | RNP1                     |
| 003           | TF              | SATOH               | -        | 016<br>(010.1) | -6.1               | 40.6          | -              | -             | -            | -              | RNP1                     |
| 004           | TF              | ANOXA               | -        | 057<br>(050.8) | -6.1               | 28.5          | -              | +12000        | -            | -              | RNP1                     |

RWY19

| 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              | -                   | -        | 191<br>(185.1) | -6.1               | -             | -              | +500          | -            | -              | RNP1                     |
| 002           | DF              | KN901               | -        | -              | -6.1               | -             | R              | -             | -            | -              | RNP1                     |
| 003           | TF              | KOKTO               | -        | 016<br>(010.1) | -6.1               | 7.2           | -              | -             | -            | -              | RNP1                     |
| 004           | TF              | SATOH               | -        | 016<br>(010.1) | -6.1               | 40.6          | -              | -             | -            | -              | RNP1                     |
| 005           | TF              | ANOXA               | -        | 057<br>(050.8) | -6.1               | 28.5          | -              | +12000        | -            | -              | RNP1                     |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART -INSTRUMENT



STANDARD DEPARTURE CHART -INSTRUMENT

RJKN / TOKUNOSHIMA

RNAV SID

YUWAN TWO DEPARTURE

RWY01

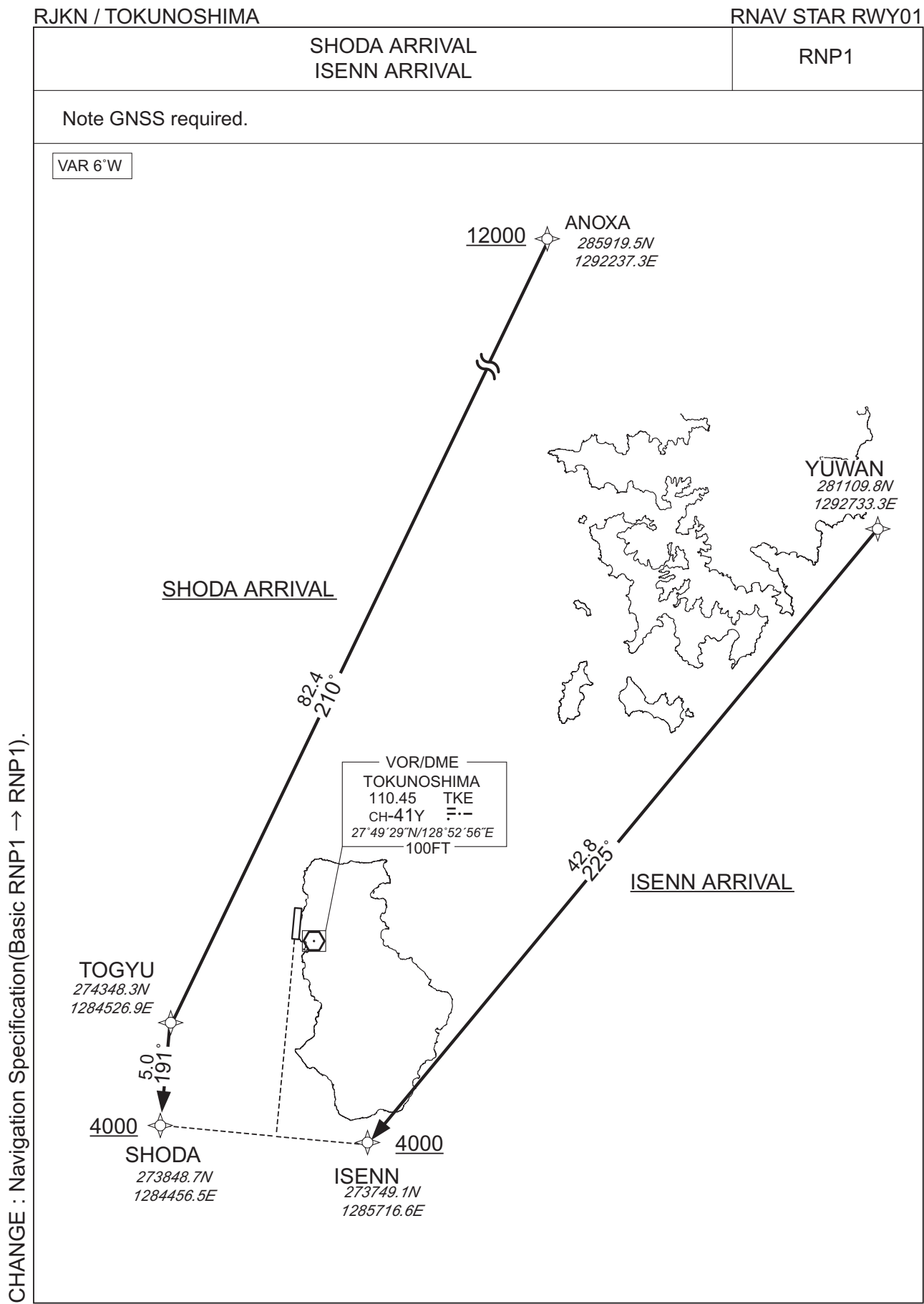
| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T)  | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001           | VA              | -                   | -        | 011<br>(005.1) | -6.1               | -             | -              | +800          | -            | -              | RNP1                     |
| 002           | DF              | KN101               | -        | -              | -6.1               | -             | -              | -             | -            | -              | RNP1                     |
| 003           | TF              | KINEN               | -        | 061<br>(054.9) | -6.1               | 14.2          | -              | -             | -            | -              | RNP1                     |
| 004           | TF              | YUWAN               | -        | 073<br>(067.1) | -6.1               | 20.1          | -              | +4000         | -            | -              | RNP1                     |

RWY19

| 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              | -                   | -        | 191<br>(185.1) | -6.1               | -             | -              | +500          | -            | -              | RNP1                     |
| 002           | DF              | KN901               | -        | -              | -6.1               | -             | R              | -             | -            | -              | RNP1                     |
| 003           | TF              | KN902               | -        | 047<br>(040.6) | -6.1               | 4.2           | -              | -             | -            | -              | RNP1                     |
| 004           | TF              | KINEN               | -        | 073<br>(066.9) | -6.1               | 15.0          | -              | -             | -            | -              | RNP1                     |
| 005           | TF              | YUWAN               | -        | 073<br>(067.1) | -6.1               | 20.1          | -              | +4000         | -            | -              | RNP1                     |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD ARRIVAL CHART - INSTRUMENT





STANDARD ARRIVAL CHART - INSTRUMENT

RJKN / TOKUNOSHIMA

RNAV STAR RWY01

SHODA ARRIVAL

From ANOXA at or above 12000FT, to TOGYU, to SHODA at or above 4000FT.

| 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              | ANOXA               | -        | -              | -6.1               | -             | -              | +12000        | -            | -              | RNP1                     |
| 002           | TF              | TOGYU               | -        | 210<br>(203.6) | -6.1               | 82.4          | -              | -             | -            | -              | RNP1                     |
| 003           | TF              | SHODA               | -        | 191<br>(185.1) | -6.1               | 5.0           | -              | +4000         | -            | -              | RNP1                     |

ISENN ARRIVAL

From YUWAN, to ISENN at or above 4000FT.

| 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              | YUWAN               | -        | -              | -6.1               | -             | -              | -             | -            | -              | RNP1                     |
| 002           | TF              | ISENN               | -        | 225<br>(218.9) | -6.1               | 42.8          | -              | +4000         | -            | -              | RNP1                     |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

## RJKN / TOKUNOSHIMA

## RNAV STAR

RNP1

Note GNSS required.

VAR 6°W

TOROS NORTH ARRIVAL

ANOVA  
285919.5N  
1292237.3E  
12000

NAGOM  
281803.5N  
1290214.3E  
4300

TOROS  
280527.7N  
1285604.4E  
2000

KN951  
280804.1N  
1291022.6E  
2800

YUWAN  
281109.8N  
1292733.3E  
4000

TOROS EAST ARRIVAL

VOR/DME  
TOKUNOSHIMA  
110.45 TKE  
CH-41Y 3.1  
27°49'29"N/128°52'56"E  
100FT

RNAV HLDG

1MIN(at or below FL140)  
1.5MIN(above FL140)

NOT TO  
SCALE

MHA 4300  
MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)

CHANGE : Navigation Specification(Basic RNP1  $\rightarrow$  RNP1).

STANDARD ARRIVAL CHART - INSTRUMENT

RJKN / TOKUNOSHIMA

RNAV STAR

**TOROS NORTH ARRIVAL**  
From ANOXA at or above 12000FT, to NAGOM at or above 4300FT, to TOROS at or above 2000FT.

| 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              | ANOXA               | -        | -              | -6.2               | -             | -              | +12000        | -            | -              | RNP1                     |
| 002           | TF              | NAGOM               | -        | 210<br>(203.5) | -6.2               | 45.0          | -              | +4300         | -            | -              | RNP1                     |
| 003           | TF              | TOROS               | -        | 210<br>(203.4) | -6.2               | 13.7          | -              | +2000         | -            | -              | RNP1                     |

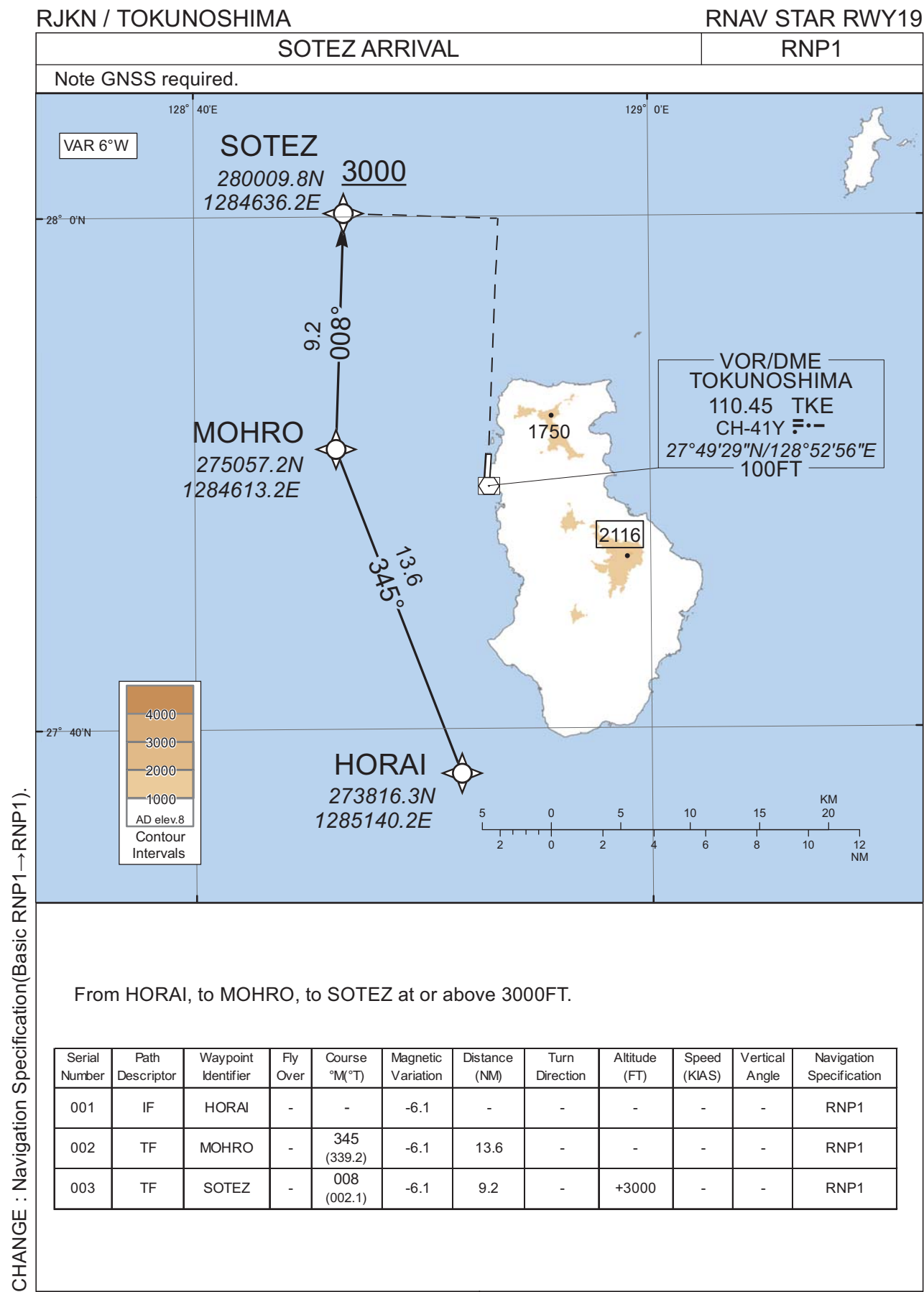
**TOROS EAST ARRIVAL**  
From YUWAN at or above 4000FT, to KN951 at or above 2800FT, to TOROS at or above 2000FT.

| 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              | YUWAN               | -        | -              | -6.2               | -             | -              | +4000         | -            | -              | RNP1                     |
| 002           | TF              | KN951               | -        | 265<br>(258.5) | -6.2               | 15.5          | -              | +2800         | -            | -              | RNP1                     |
| 003           | TF              | TOROS               | -        | 265<br>(258.4) | -6.2               | 12.9          | -              | +2000         | -            | -              | RNP1                     |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN)          | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS)                         | Navigation Specification |
|------|---------------------|-----------------------|--------------------|------------------------------|----------------|-----------------------|-----------------------|--------------------------------------|--------------------------|
| Hold | NAGOM               | 210<br>(203.4)        | -6.2               | 1.0 (-14000)<br>1.5 (+14001) | R              | 4300                  | -                     | -230<br>(-14000)<br>-240<br>(+14001) | RNP1                     |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

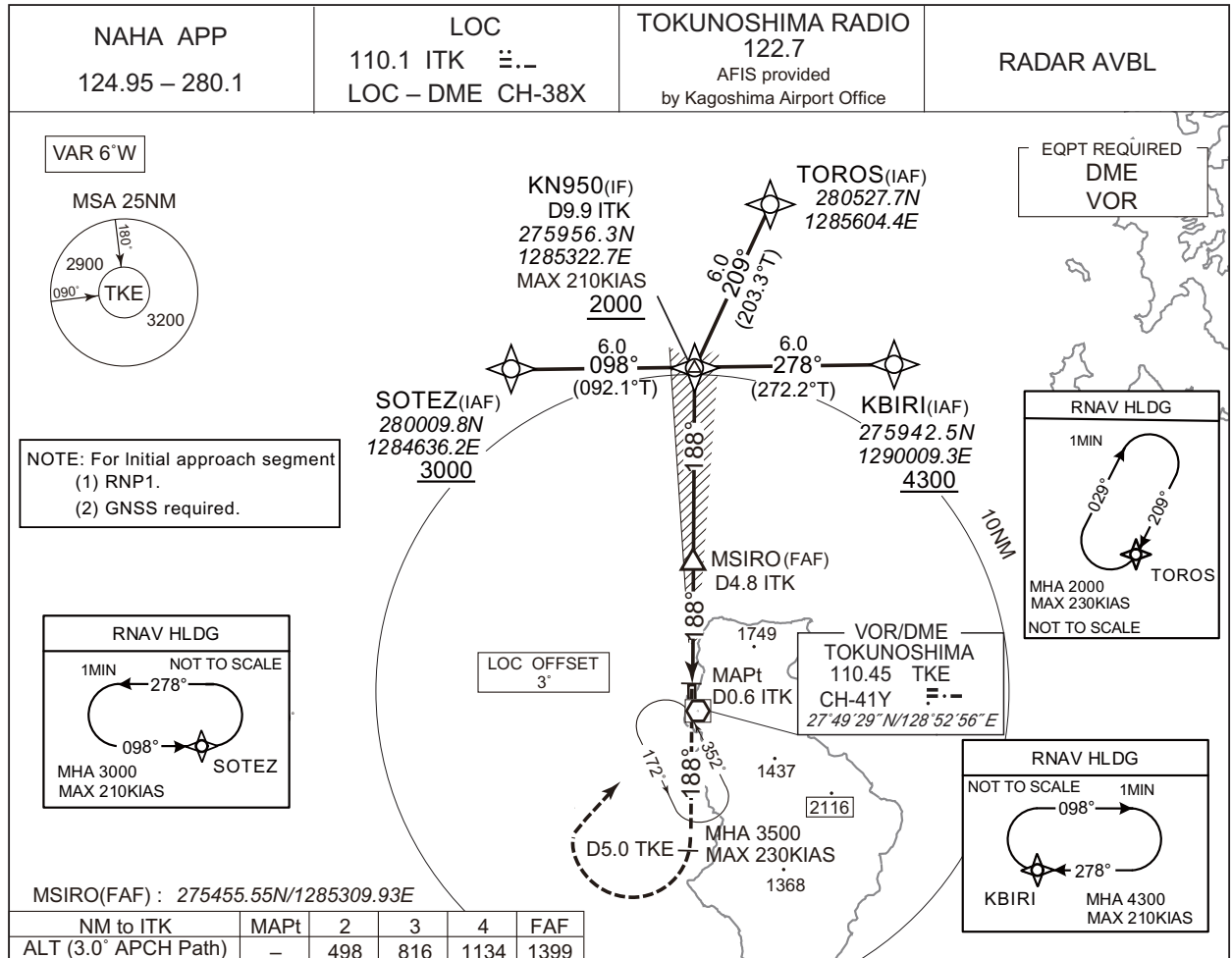
STANDARD ARRIVAL CHART - INSTRUMENT



INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMA

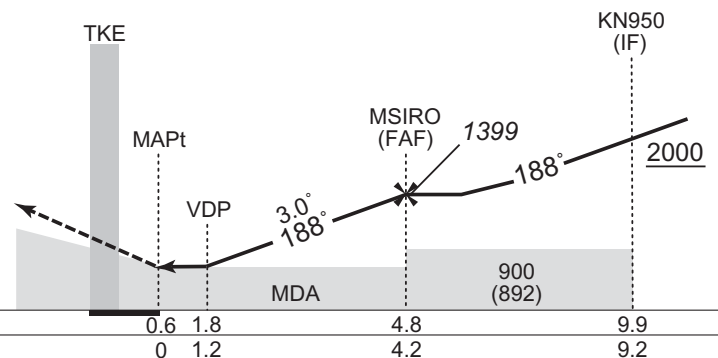
LOC Z RWY19



CHANGE : Navigation Specification(Basic RNP1 → RNP1).

**MISSED APPROACH**  
 Climb via TKE R188 to 5.0DME,  
 turn right, direct to TKE VOR/DME  
 and hold at 3500FT.  
 Contact NAHA APP.

Timing not authorized for defining the MAPt.



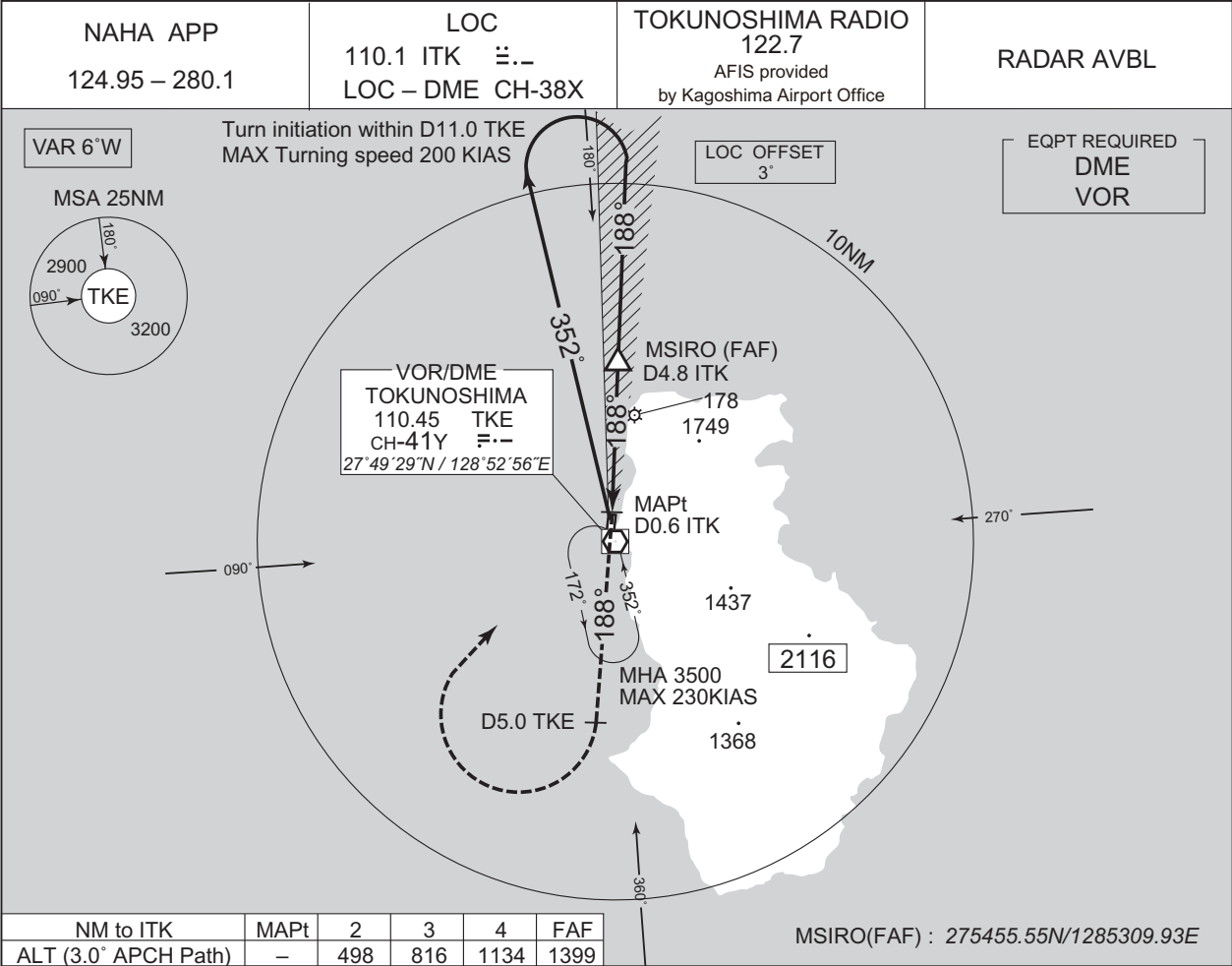
Missed APCH climb gradient MNM 5.0%

| MINIMA |           | THR elev. 14 | AD elev. 8  |      |
|--------|-----------|--------------|-------------|------|
| CAT    | CIRCLING  |              |             |      |
|        | MDA(H)    | CMV          | MDA(H)      | VIS  |
| A      | 430 (422) | 900          | 730 (722)   | 1600 |
| B      |           | 1000         | 990 (982)   |      |
| C      |           |              | 1190 (1182) |      |
| D      |           |              | 1480 (1472) |      |

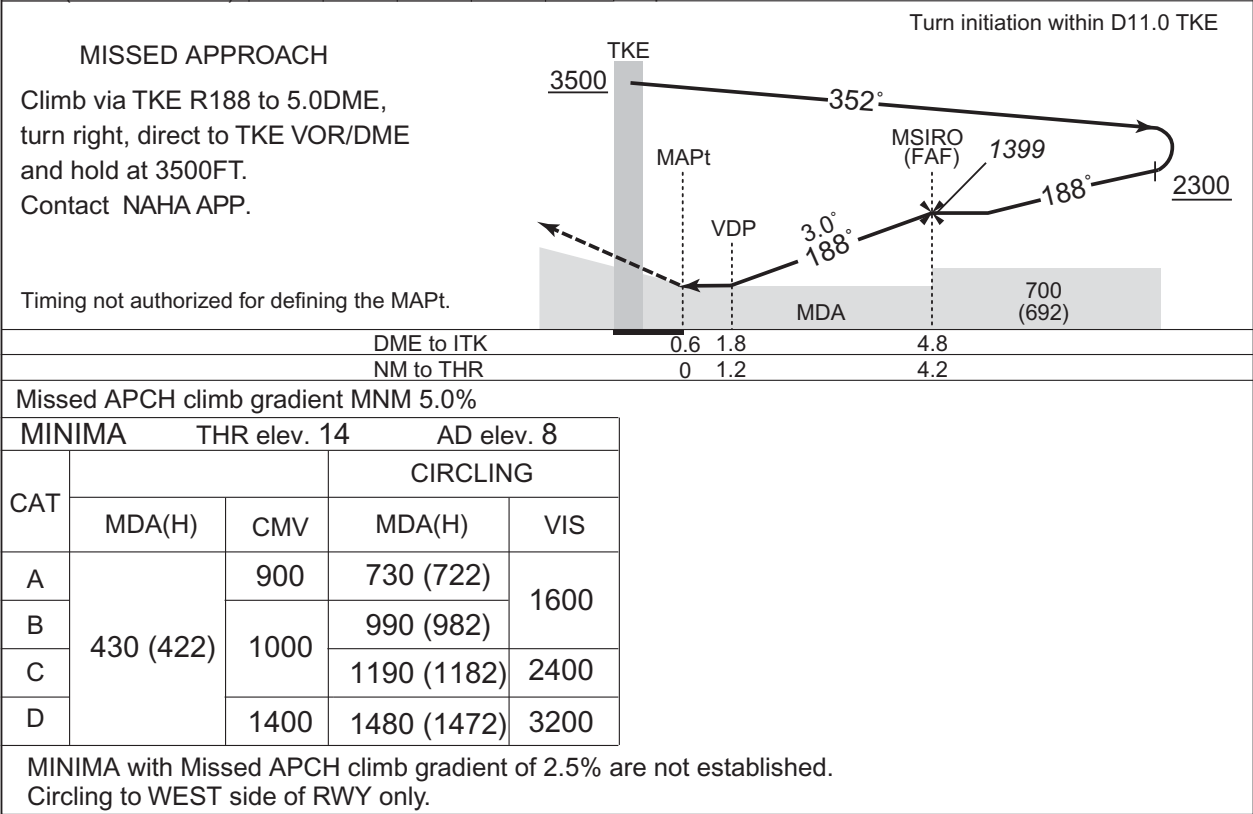
MINIMA with Missed APCH climb gradient of 2.5% are not established.  
 Circling to WEST side of RWY only.

INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMALOC Y RWY19



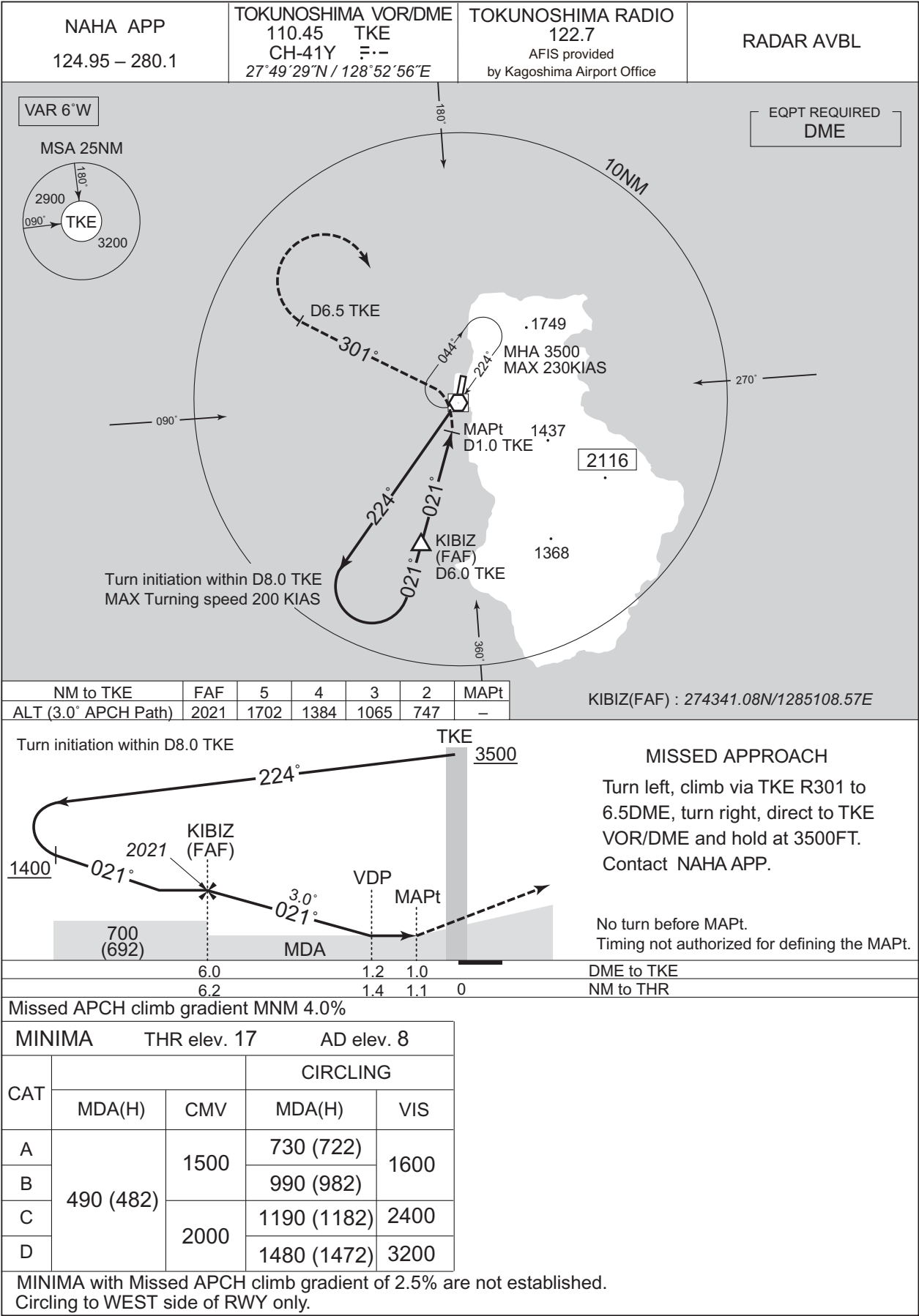
CHANGE : Description of RADAR Service. Missed APCH PROC.



INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMA

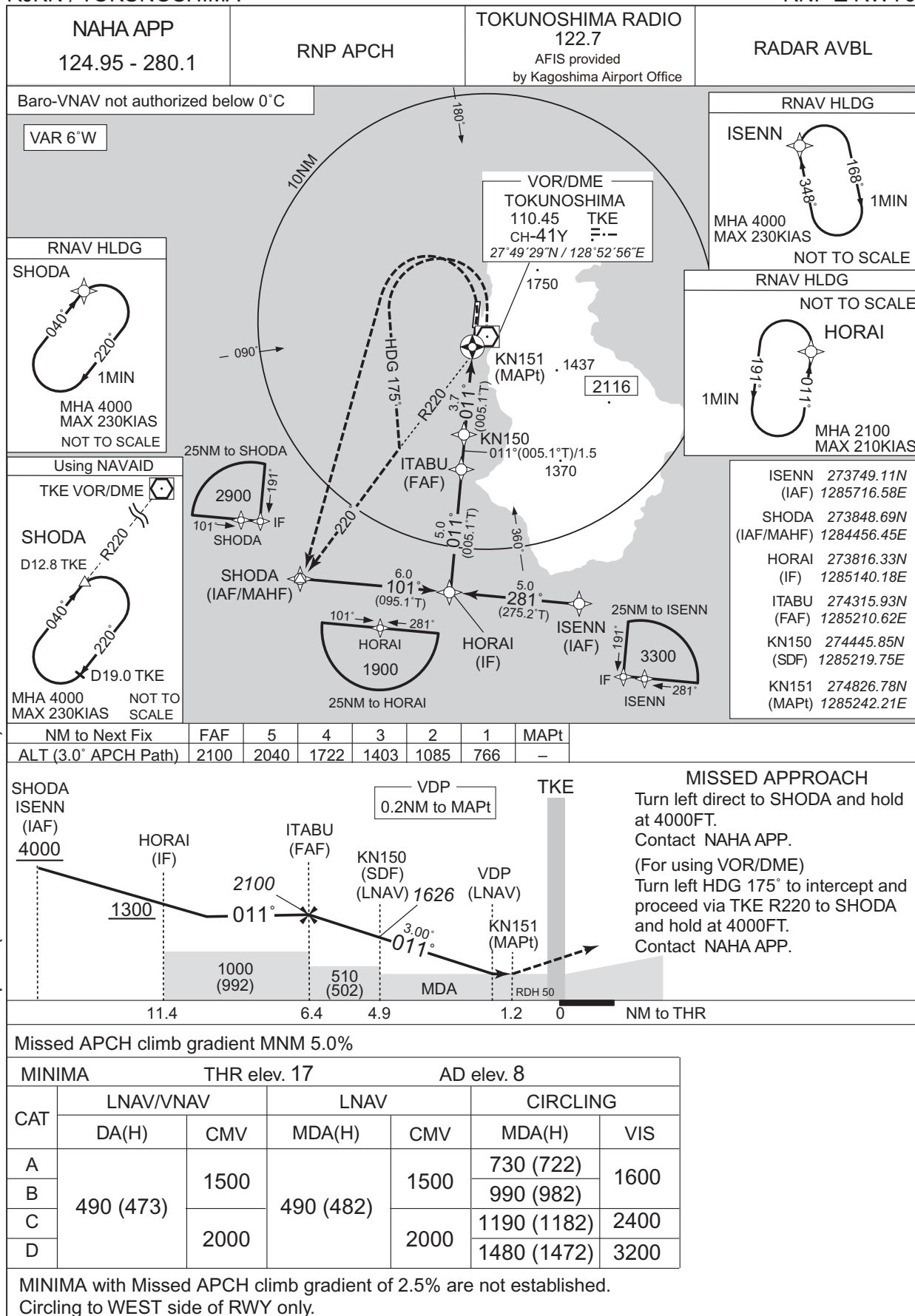
VOR RWY01



## INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMA

RNP Z RWY01



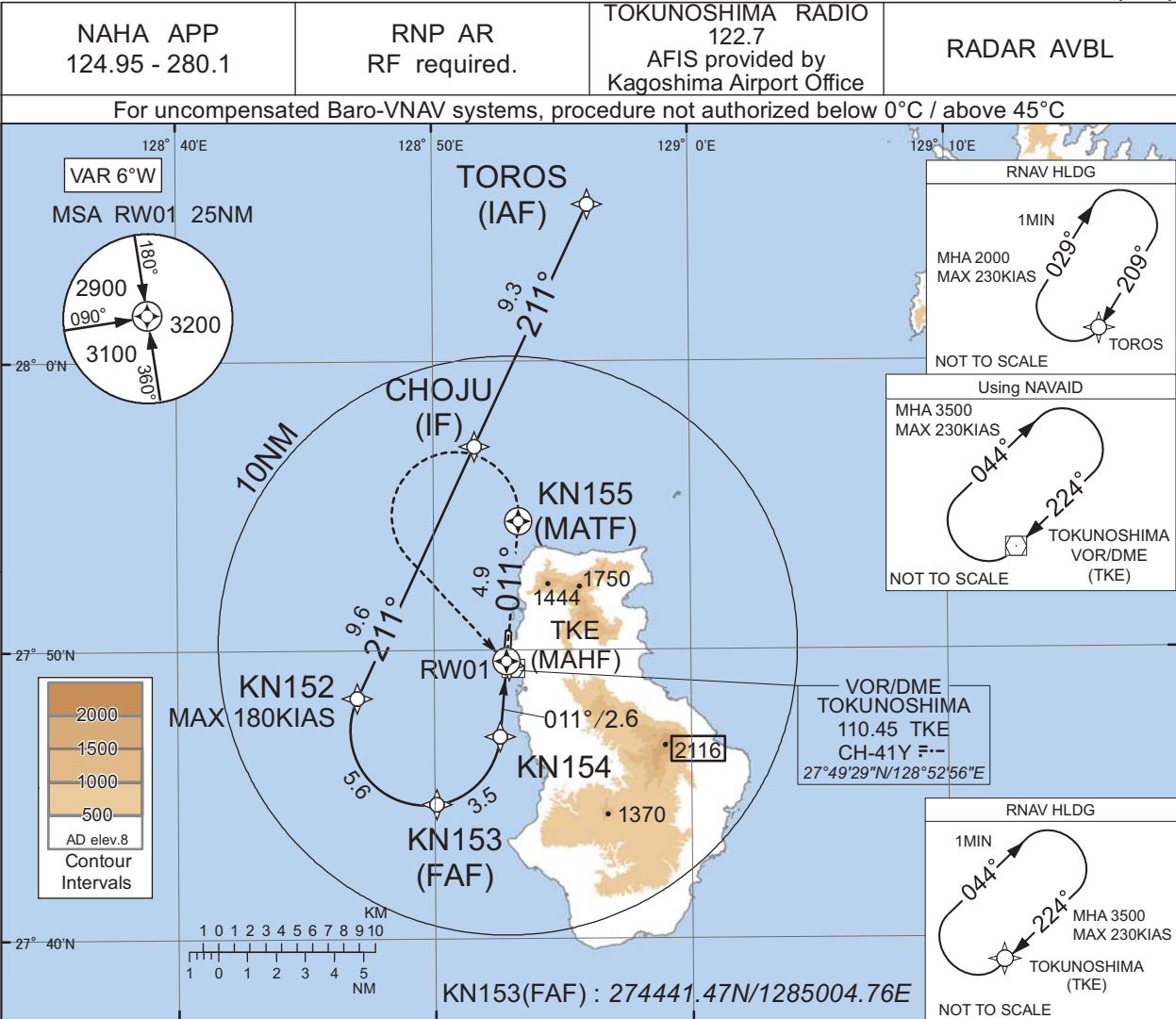
CHANGE : Correction of misdescription(Missed APCH PROC).



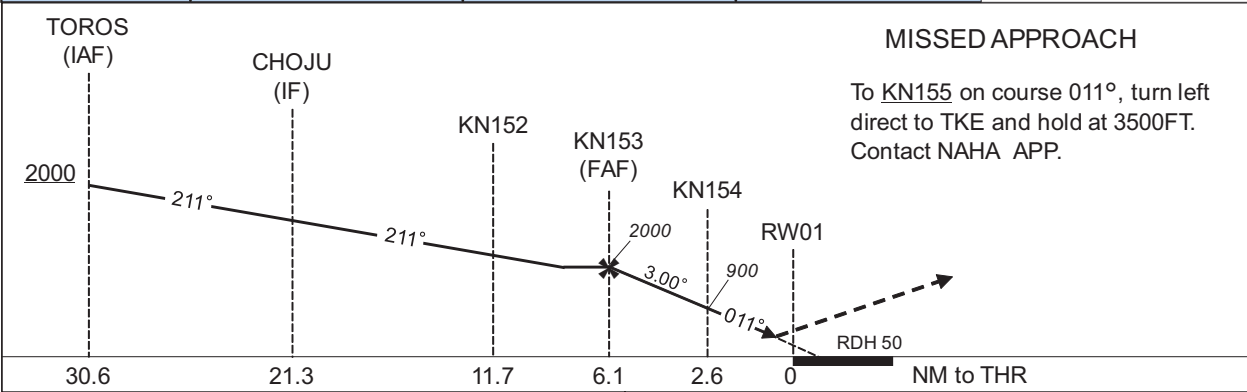
INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMA

RNP Y RWY01(AR)



CHANGE : Description of RADAR Service. Missed APCH PROC.



|                                     |              |            |
|-------------------------------------|--------------|------------|
| Missed APCH climb gradient MNM 5.0% |              |            |
| MINIMA                              | THR elev. 17 | AD elev. 8 |
| CAT                                 | RNP 0.30     |            |
|                                     | DA(H)        | CMV        |
| A                                   | -            | -          |
| B                                   |              |            |
| C                                   | 656(639)     | 2000       |
| D                                   | -            | -          |

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

Authorization Required

## INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMA

RNP Y RWY01(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                                 | TOROS               | -        | -             | -6.2               | -             | -              | +2000         | -            | -               | -         |
| 002           | TF                                 | CHOJU               | -        | 211 (205.2)   | -6.2               | 9.3           | -              | -             | -            | -               | 1.0       |
| 003           | TF                                 | KN152               | -        | 211 (205.1)   | -6.2               | 9.6           | -              | -             | -180         | -               | 1.0       |
| 004           | RF<br>Center:<br>KNRF1<br>r=2.59NM | KN153               | -        | -             | -6.2               | 5.6           | L              | 2000          | -            | -               | 1.0       |
| 005           | RF<br>Center:<br>KNRF1<br>r=2.59NM | KN154               | -        | -             | -6.2               | 3.5           | L              | 900           | -            | -3.00           | 0.3       |
| 006           | TF                                 | RW01                | Y        | 011 (005.1)   | -6.2               | 2.6           | -              | 67            | -            | -3.00/50        | 0.3       |
| 007           | CF                                 | KN155               | Y        | 011 (005.1)   | -6.2               | 4.9           | -              | -             | -            | -               | 1.0       |
| 008           | DF                                 | TKE                 | -        | -             | -6.2               | -             | L              | 3500          | -            | -               | 1.0       |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | RNP Value |
|------|---------------------|-----------------------|--------------------|---------------------|----------------|-----------------------|-----------------------|--------------|-----------|
| Hold | TOROS               | 209 (203.3)           | -6.2               | 1.0 (-14000)        | R              | 2000                  | FL140                 | -230(-14000) | 1.0       |
| Hold | TKE                 | 224 (217.8)           | -6.2               | 1.0 (-14000)        | R              | 3500                  | FL140                 | -230(-14000) | 1.0       |

Waypoint Coordinates

| Waypoint Identifier | Coordinates              | RF Arc Center Identifier | Coordinates              |
|---------------------|--------------------------|--------------------------|--------------------------|
| TOROS               | 280527.68N / 1285604.41E | KNRF1                    | 274715.75N / 1284938.87E |
| CHOJU               | 275704.94N / 1285137.19E |                          |                          |
| KN152               | 274822.20N / 1284700.16E |                          |                          |
| KN153               | 274441.47N / 1285004.76E |                          |                          |
| KN154               | 274701.73N / 1285233.57E |                          |                          |
| RW01                | 274938.71N / 1285249.54E |                          |                          |
| KN155               | 275429.43N / 1285319.15E |                          |                          |
| TKE                 | 274929.20N / 1285255.98E |                          |                          |

CHANGE : New PROC.

RJKN / TOKUNOSHIMA

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                        |
|---------------------|---------------------|--------------------------------|
| 金見崎<br>Kanamizaki   | 055°T / 5.8NM       | 灯台<br>Lighthouse               |
| 与名間崎<br>Yonamazaki  | 011°T / 2.8NM       | 灯台<br>Lighthouse               |
| 亀徳港<br>Kametokuko   | 127°T / 9.5NM       | 漁港<br>Harbor                   |
| 犬田布崎<br>Inutabuzaki | 179°T / 6.8NM       | 白い大きな慰霊碑<br>Big white monument |

RJKN / TOKUNOSHIMA

Minimum Vectoring Altitude CHART

CHANGE : Shape of segment. Minimum vectoring altitude.

