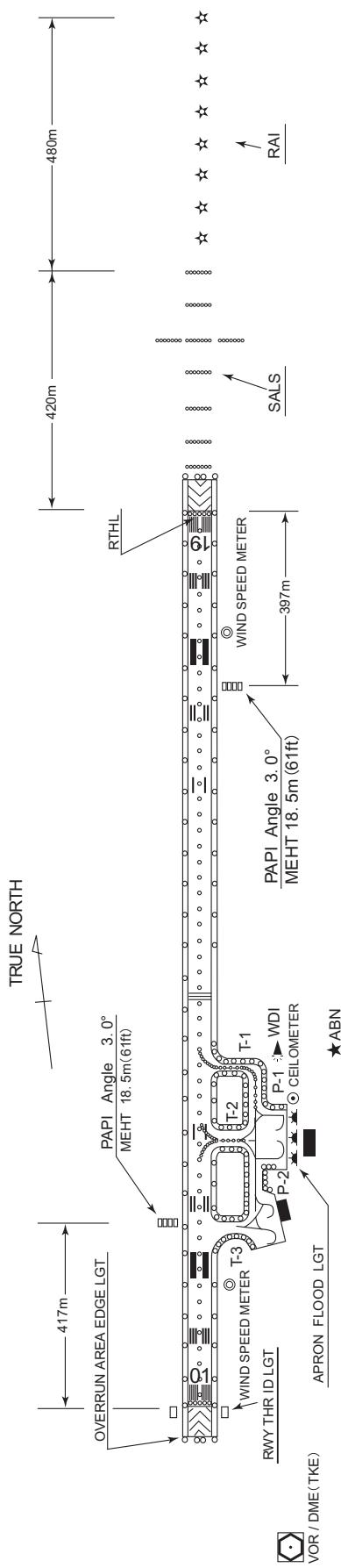


CHANGE: WIND SPEED METER, CEILOMETER added.

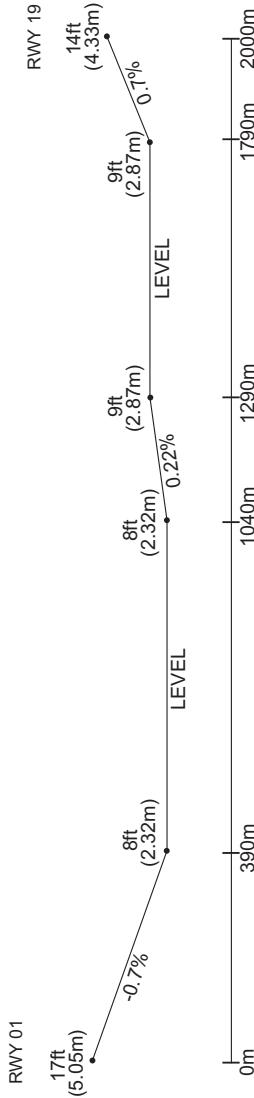
RJKN / TOKUNOSHIMA

AD CHART

TOKUNOSHIMA AP



LONGITUDINAL PROFILE OF RWY



REMARKS : RWY GROOVING
WIDTH AND STRENGTH OF TWY
T-1 30m x 2000m
23m PCR 616 / F / C / X / T
T-2 23m PCR 616 / F / C / X / T
T-3 18m PCR 196 / F / C / X / T
STRENGTH OF APRON PCR 687 / R / B / W / T
(PCR 196 / F / C / X / T
For Light ACFT APRON)

STANDARD DEPARTURE CHART -INSTRUMENT

RJKN / TOKUNOSHIMA

SID and TRANSITION

TOKUNOSHIMA FIVE DEPARTURE

RWY01 : Climb via TKE R359 to 5.0DME, turn left,...

RWY19 : Climb RWY HDG to 700FT, turn right,...

...direct to TKE VOR/DME.

Cross TKE VOR/DME at or above 3000FT.

Note RWY01 : 4.9% climb gradient required up to 1600FT.

OBST ALT 427FT located at 1.4NM 029° FM end of RWY01.

Note RWY19 : No turn before DER.

KUNIG TRANSITION

From over TKE VOR/DME, via TKE R209 to KUNIG or ONC VORTAC.

Cross KUNIG or ONC VORTAC at assigned altitude.

MEKAX TRANSITION

From over TKE VOR/DME, via TKE R025 to 15.0DME, via ONC R026 to MEKAX.

Cross MEKAX at or above 11000FT.

KASARI TRANSITION

From over TKE VOR/DME, via TKE R097 to PINNE, via AME R228 to AME VOR/DME.

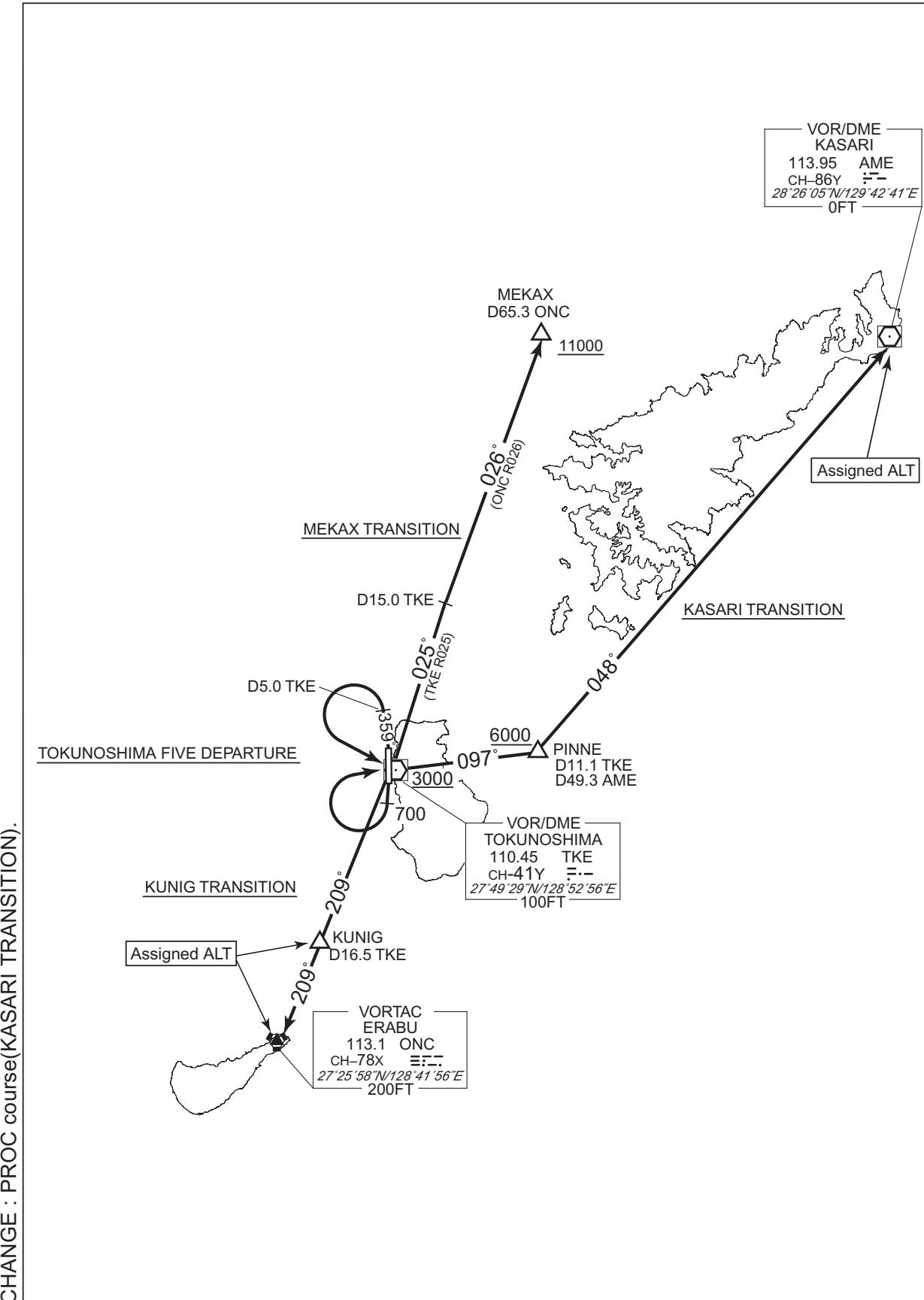
Cross PINNE at or above 6000FT, cross AME VOR/DME at assigned altitude.

CHANGE : PROC course(KASARI TRANSITION).

STANDARD DEPARTURE CHART -INSTRUMENT

RJKN / TOKUNOSHIMA

SID and TRANSITION



STANDARD DEPARTURE CHART -INSTRUMENT

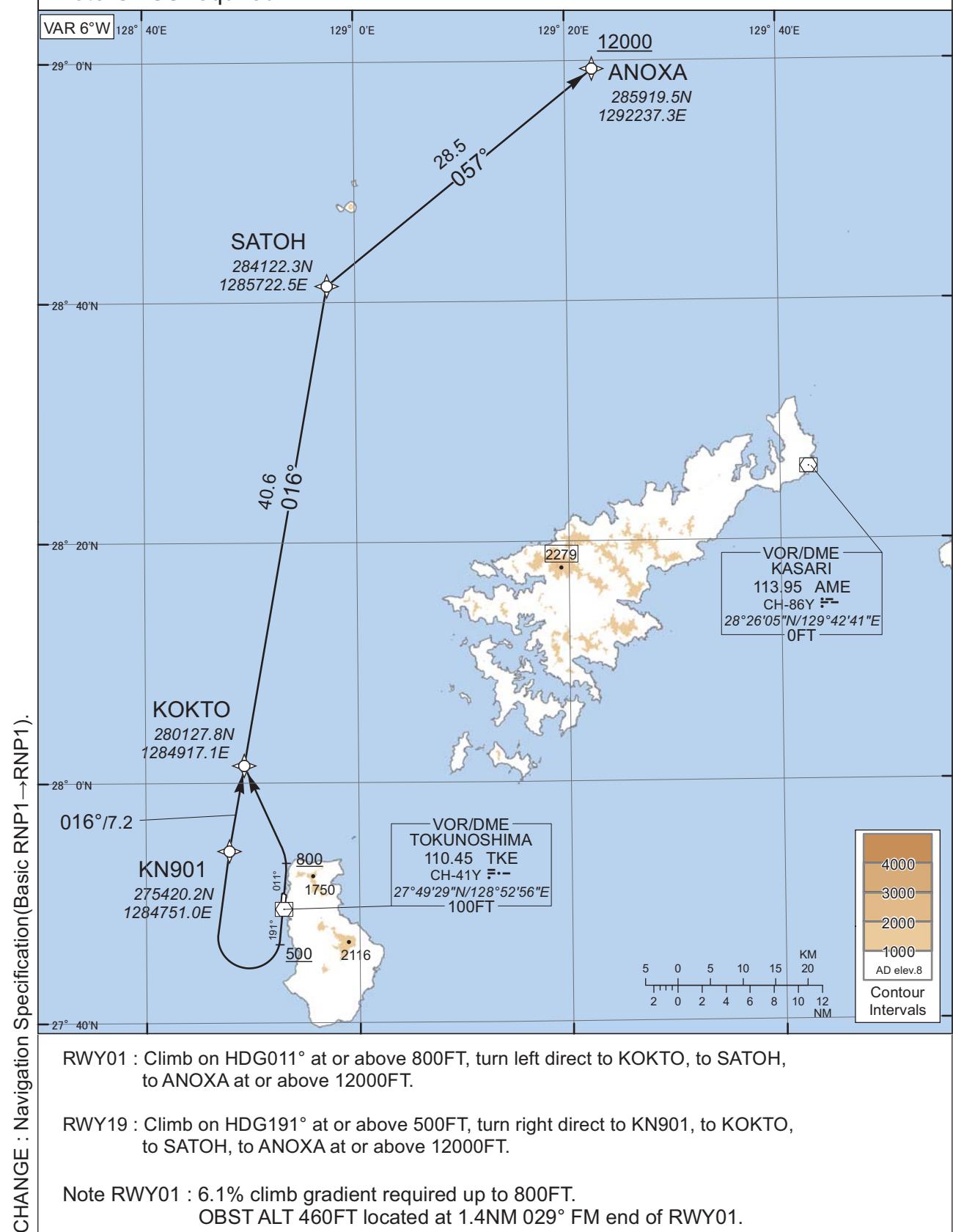
RJKN / TOKUNOSHIMA

RNAV SID

ANOXA TWO DEPARTURE

RNP1

Note GNSS required.



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 (005.1) | -6.1 | - | - | +800 | - | - | RNP1 |
| 002 | DF | KOKTO | - | - | -6.1 | - | L | - | - | - | RNP1 |
| 003 | TF | SATOH | - | 016 (010.1) | -6.1 | 40.6 | - | - | - | - | RNP1 |
| 004 | TF | ANOXA | - | 057 (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 (185.1) | -6.1 | - | - | +500 | - | - | RNP1 |
| 002 | DF | KN901 | - | - | -6.1 | - | R | - | - | - | RNP1 |
| 003 | TF | KOKTO | - | 016 (010.1) | -6.1 | 7.2 | - | - | - | - | RNP1 |
| 004 | TF | SATOH | - | 016 (010.1) | -6.1 | 40.6 | - | - | - | - | RNP1 |
| 005 | TF | ANOXA | - | 057 (050.8) | -6.1 | 28.5 | - | +12000 | - | - | RNP1 |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART -INSTRUMENT

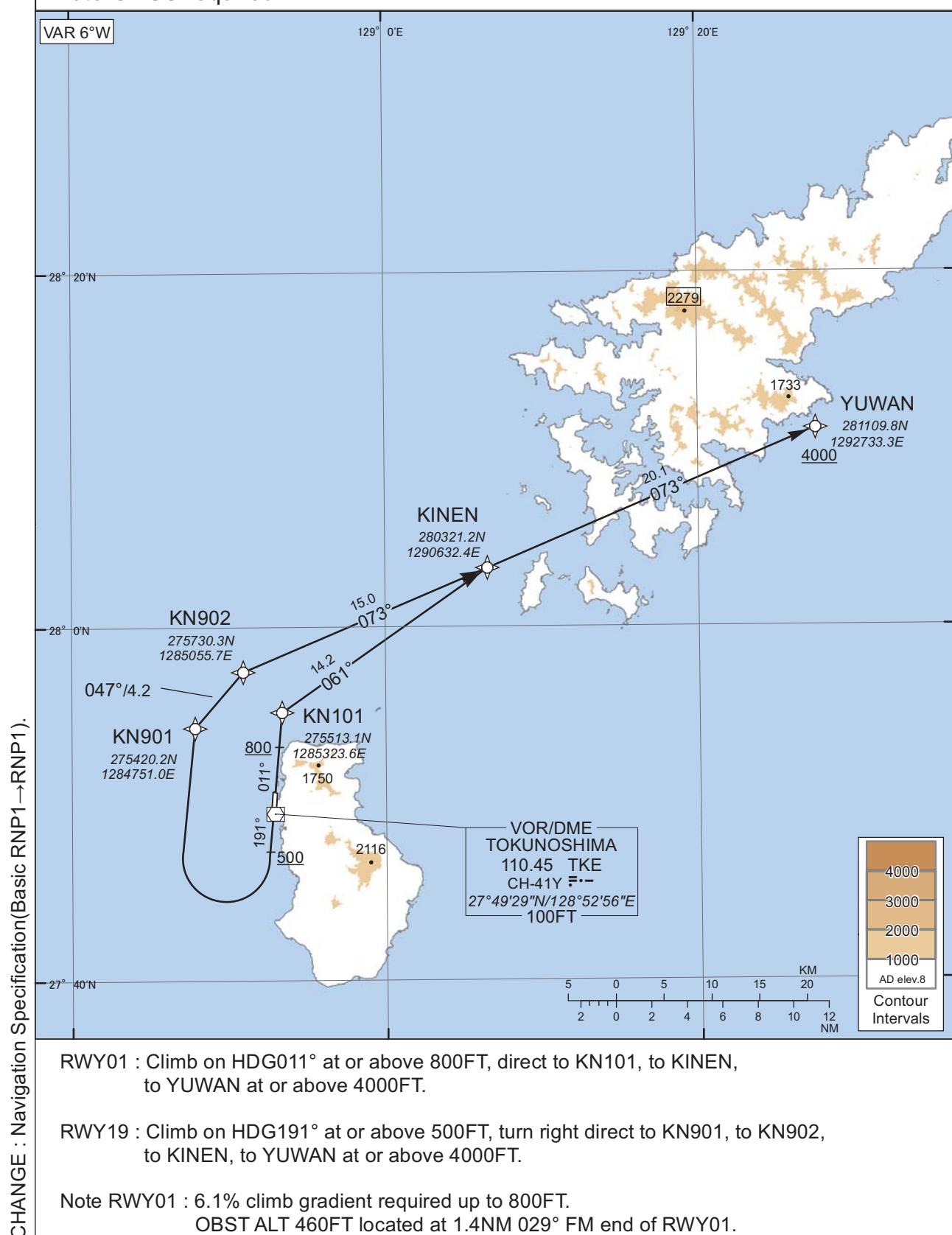
RJKN / TOKUNOSHIMA

RNAV SID

YUWAN TWO DEPARTURE

RNP1

Note GNSS required.



STANDARD DEPARTURE CHART -INSTRUMENT

RJKN / TOKUNOSHIMA

RNAV SID

YUWAN TWO DEPARTURE

RWY01

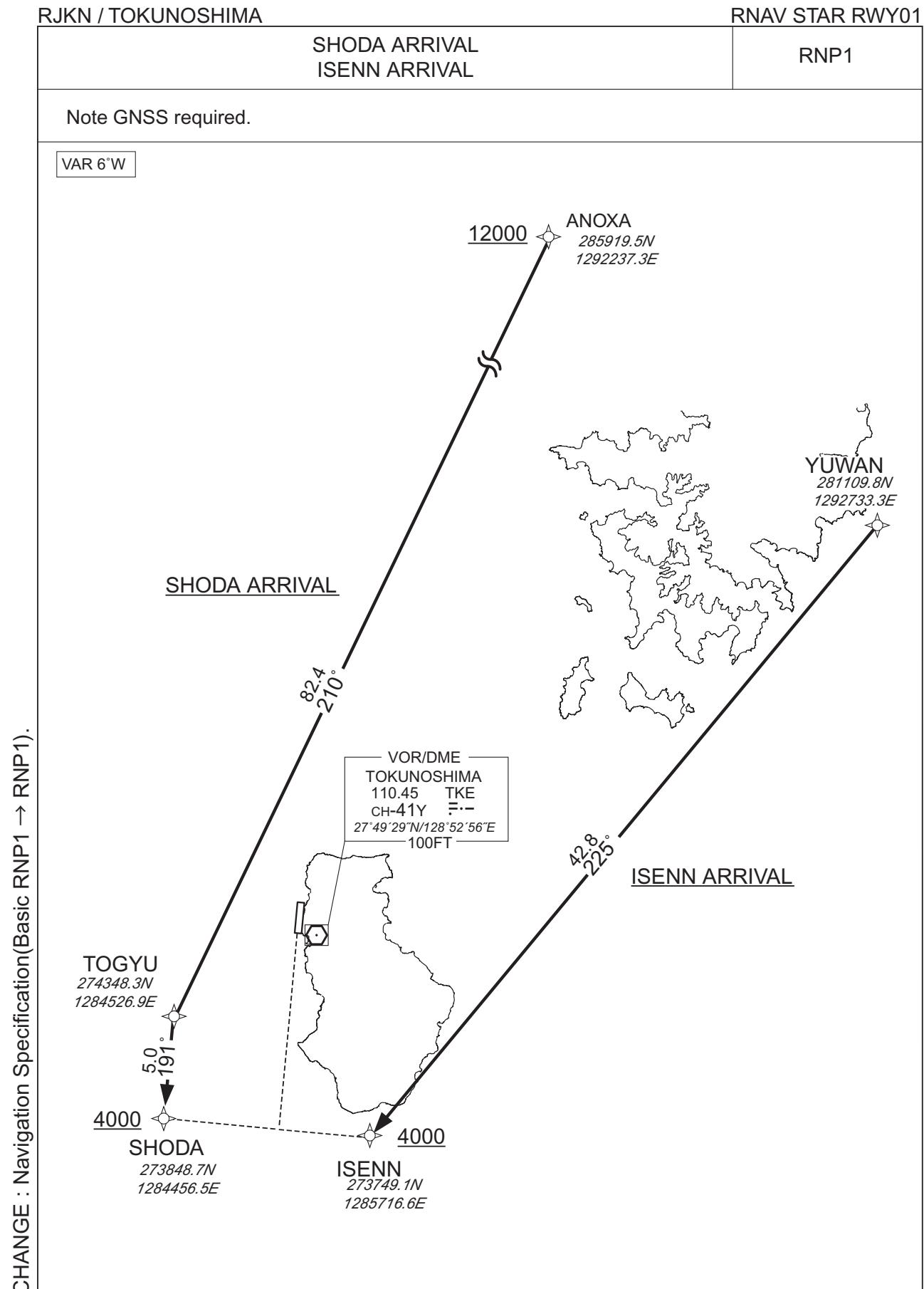
| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | - | - | 011 (005.1) | -6.1 | - | - | +800 | - | - | RNP1 |
| 002 | DF | KN101 | - | - | -6.1 | - | - | - | - | - | RNP1 |
| 003 | TF | KINEN | - | 061 (054.9) | -6.1 | 14.2 | - | - | - | - | RNP1 |
| 004 | TF | YUWAN | - | 073 (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 (185.1) | -6.1 | - | - | +500 | - | - | RNP1 |
| 002 | DF | KN901 | - | - | -6.1 | - | R | - | - | - | RNP1 |
| 003 | TF | KN902 | - | 047 (040.6) | -6.1 | 4.2 | - | - | - | - | RNP1 |
| 004 | TF | KINEN | - | 073 (066.9) | -6.1 | 15.0 | - | - | - | - | RNP1 |
| 005 | TF | YUWAN | - | 073 (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 (203.6) | -6.1 | 82.4 | - | - | - | - | RNP1 |
| 003 | TF | SHODA | - | 191 (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 (218.9) | -6.1 | 42.8 | - | +4000 | - | - | RNP1 |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD ARRIVAL CHART - INSTRUMENT

RJKN / TOKUNOSHIMA

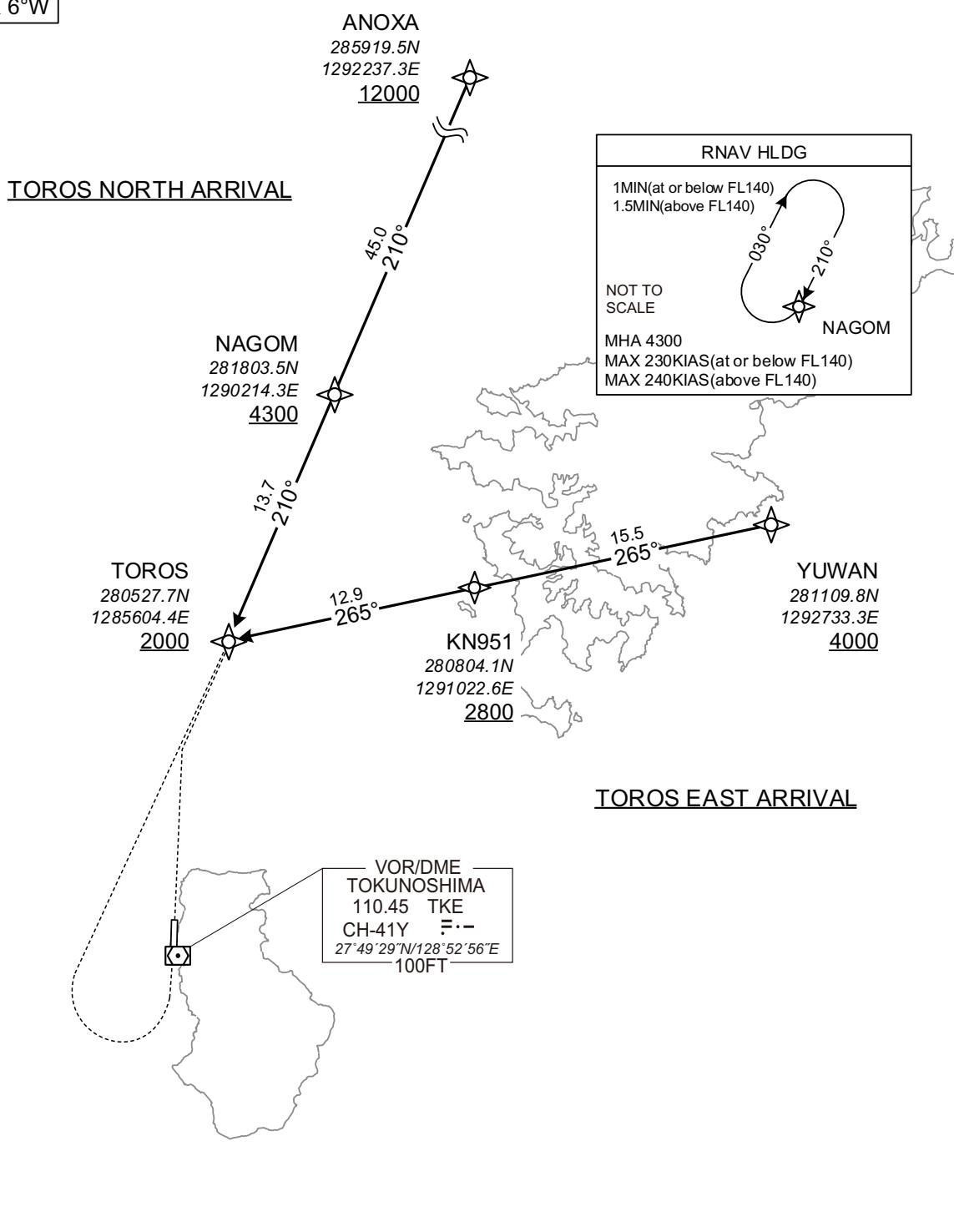
RNAV STAR

TOROS NORTH ARRIVAL
TOROS EAST ARRIVAL

RNP1

Note GNSS required.

VAR 6°W



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 (203.5) | -6.2 | 45.0 | - | +4300 | - | - | RNP1 |
| 003 | TF | TOROS | - | 210 (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 (258.5) | -6.2 | 15.5 | - | +2800 | - | - | RNP1 |
| 003 | TF | TOROS | - | 265 (258.4) | -6.2 | 12.9 | - | +2000 | - | - | RNP1 |

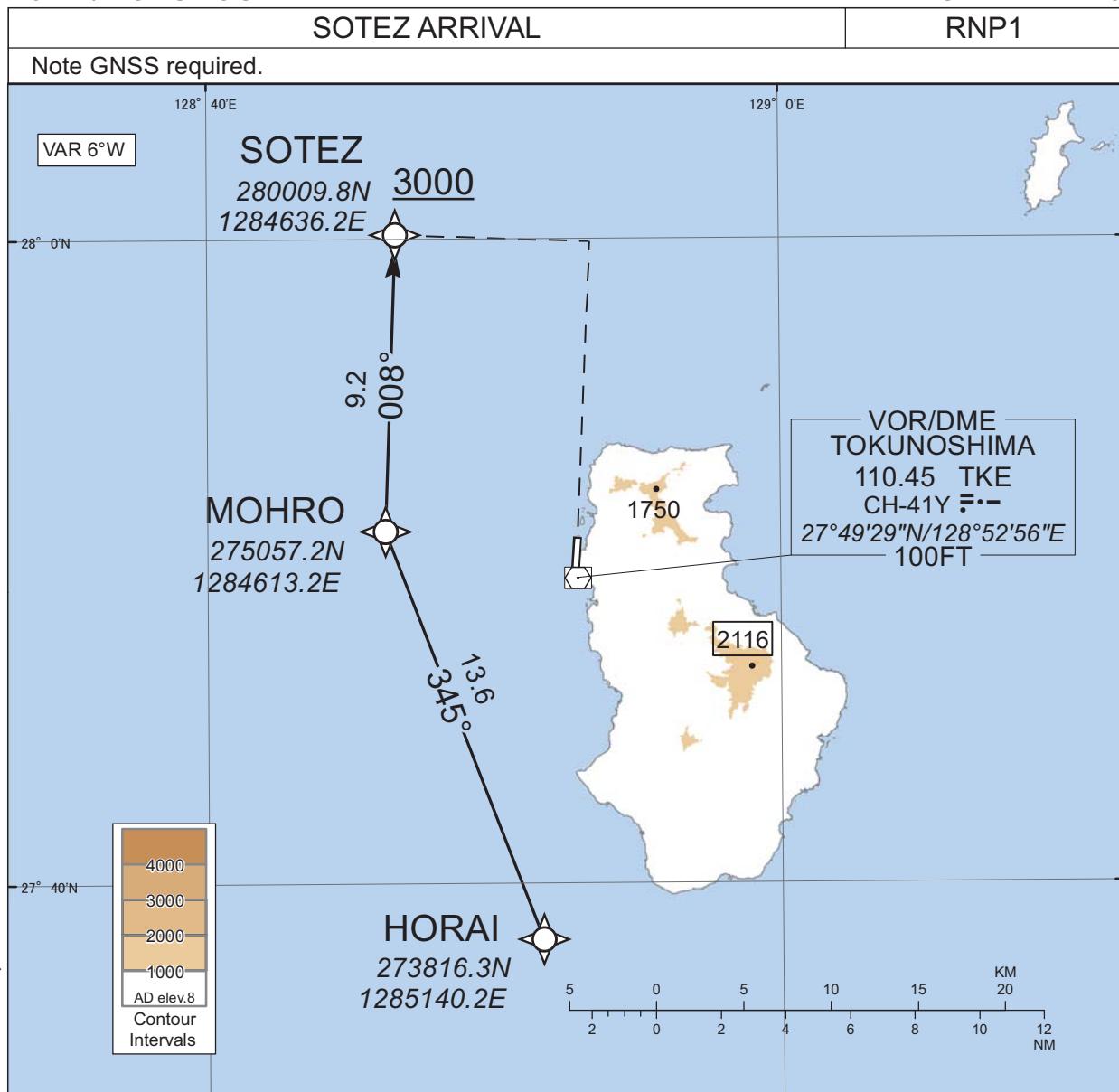
| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|------------------------------|----------------|-----------------------|------------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

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD ARRIVAL CHART - INSTRUMENT

RJKN / TOKUNOSHIMA

RNAV STAR RWY19



CHANGE : Navigation Specification(Basic RNP1→RNP1).

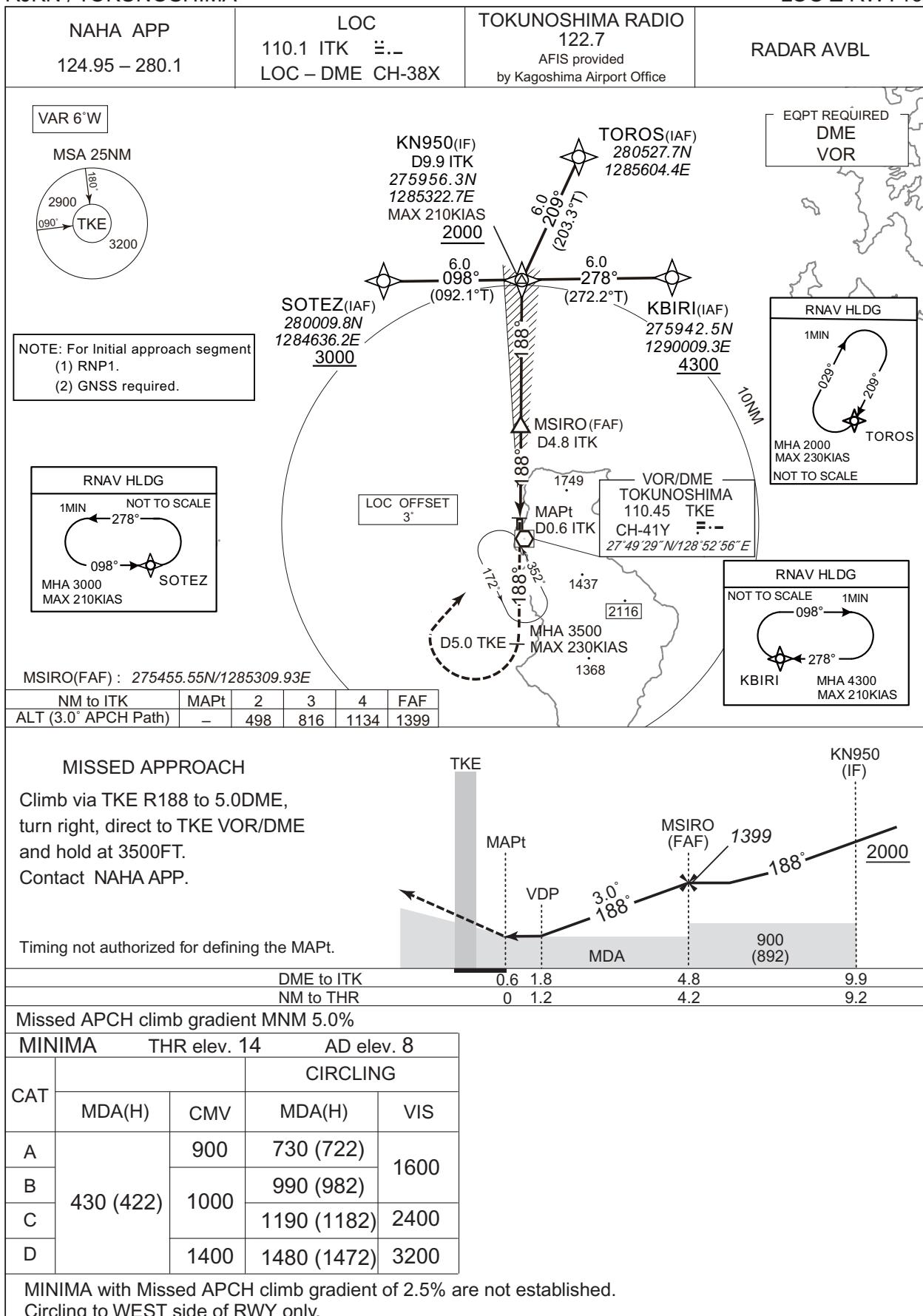
From HORAI, to MOHRO, to SOTEZ at or above 3000FT.

| 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 | HORAI | - | - | -6.1 | - | - | - | - | - | RNP1 |
| 002 | TF | MOHRO | - | 345 (339.2) | -6.1 | 13.6 | - | - | - | - | RNP1 |
| 003 | TF | SOTEZ | - | 008 (002.1) | -6.1 | 9.2 | - | +3000 | - | - | RNP1 |

INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMA

LOC Z RWY19

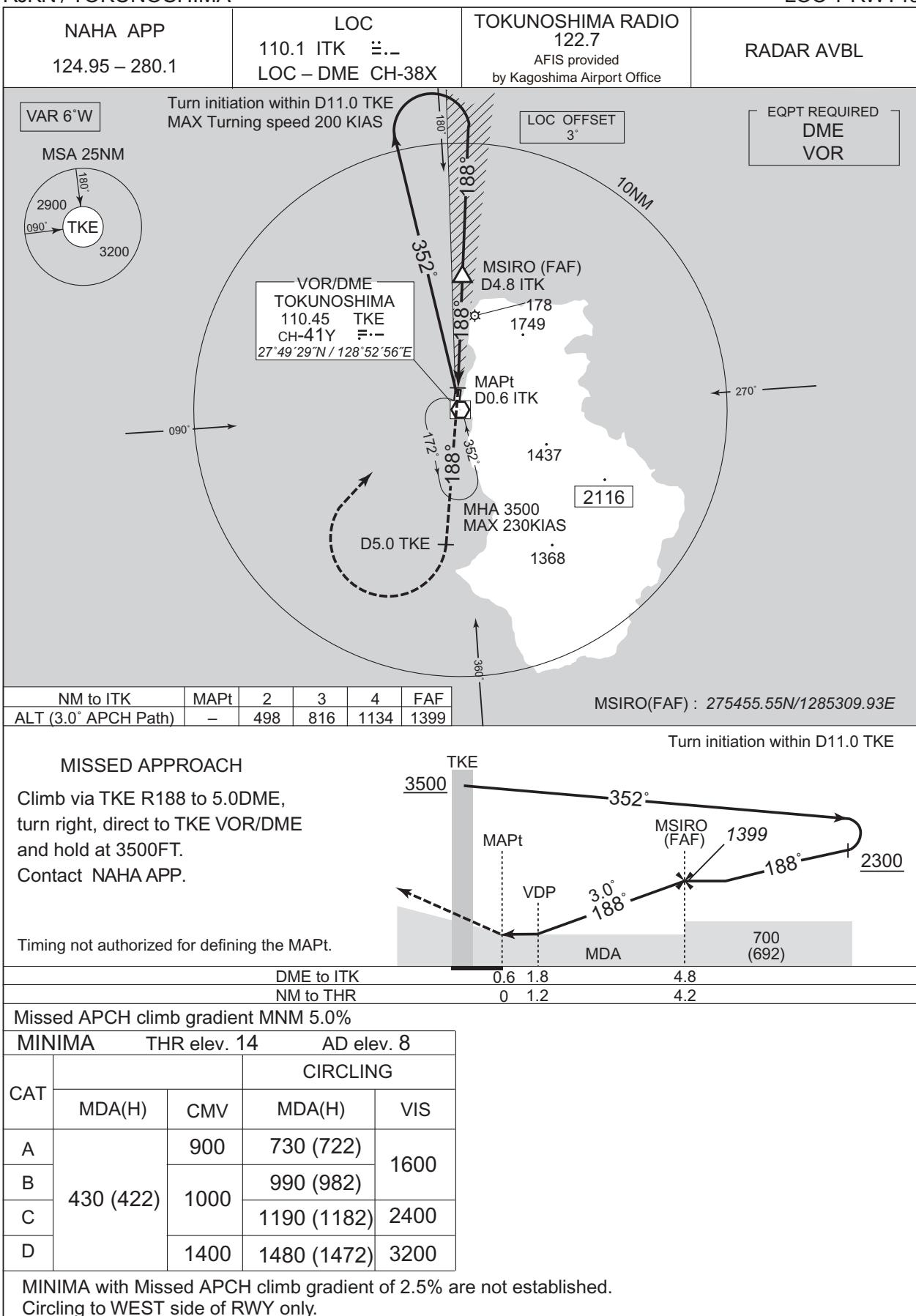


CHANGE : Navigation Specification(Basic RNP1 → RNP1).

INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMA

LOC Y RWY19

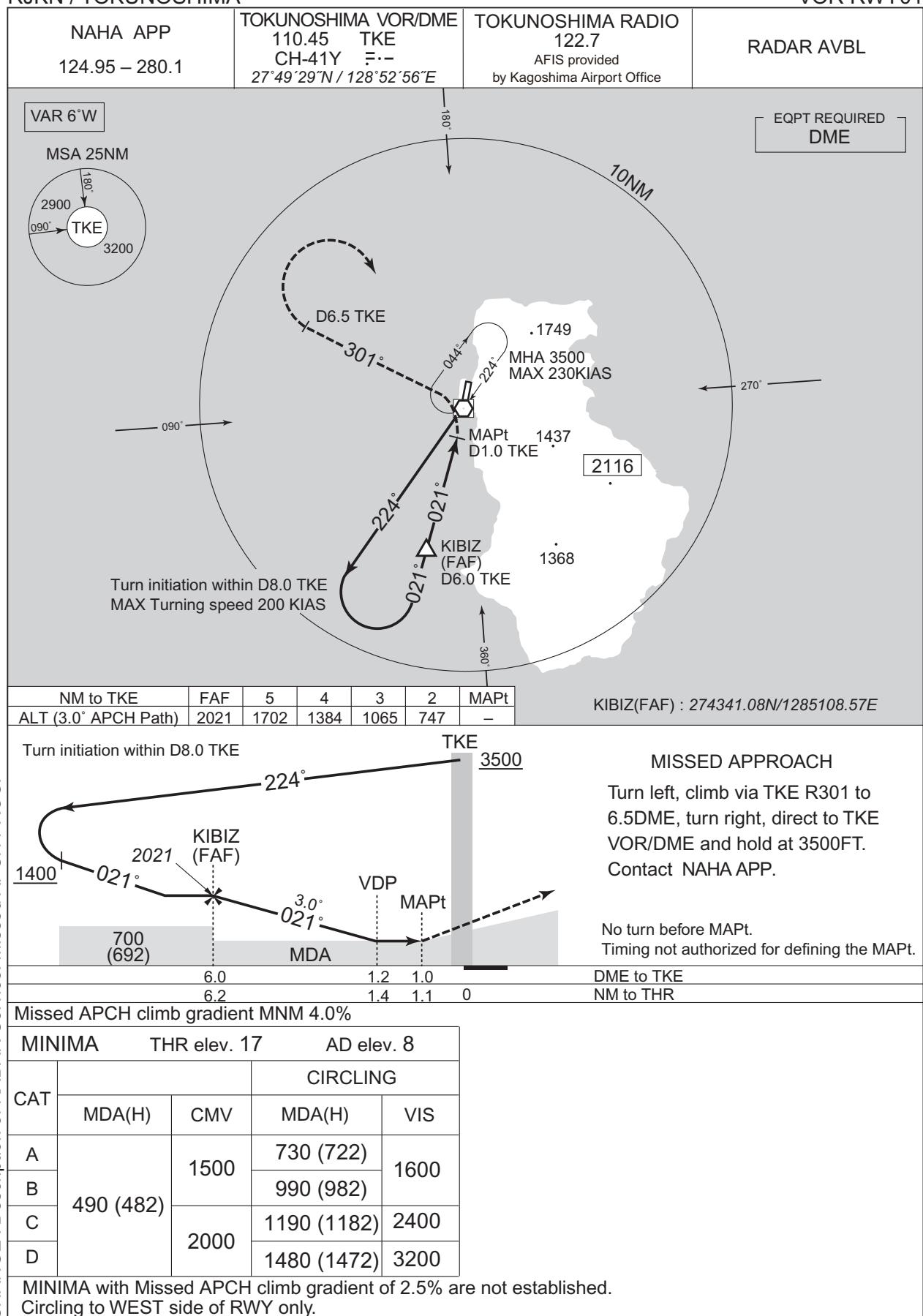


CHANGE : Description of RADAR Service, Missed APCH PROC.

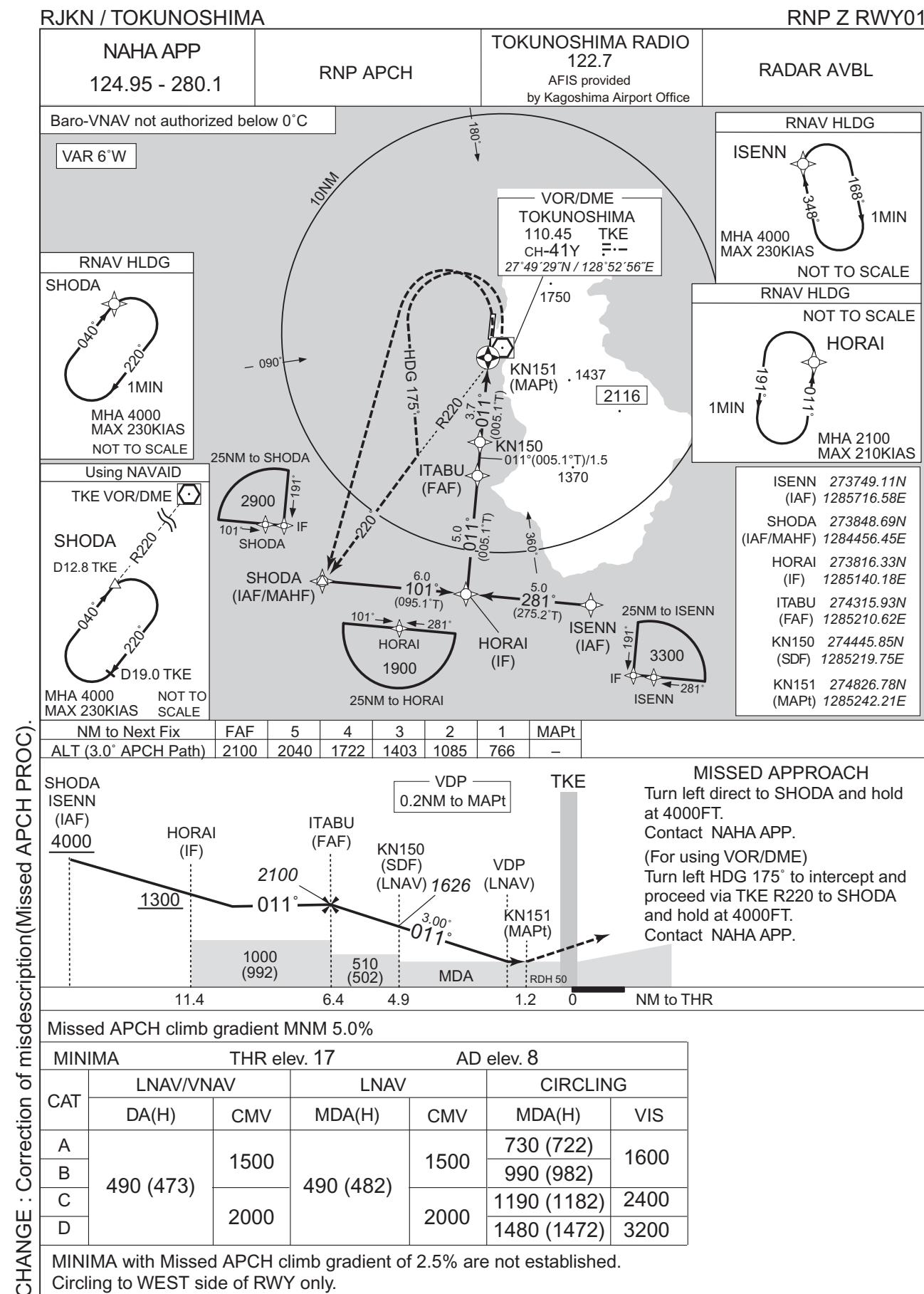
INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMA

VOR RWY01



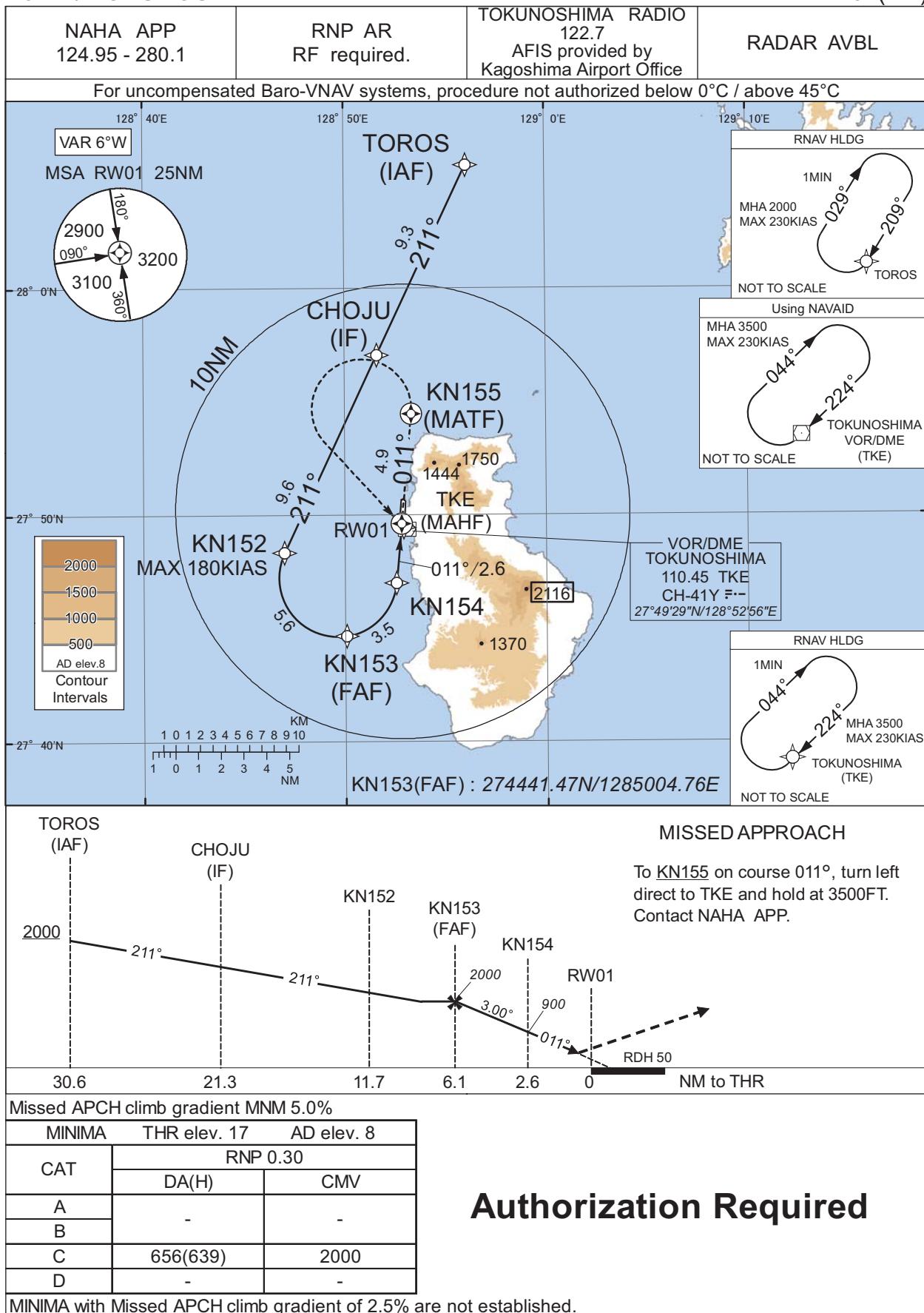
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMA

RNP Y RWY01(AR)



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 Center: KNRF1 r=2.59NM | KN153 | - | - | -6.2 | 5.6 | L | 2000 | - | - | 1.0 |
| 005 | RF Center: KNRF1 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).

| Call sign | BRG / DIST from ARP | Remarks |
|---------------------|---------------------|--------------------------------|
| 金見崎 Kanamizaki | 055°T / 5.8NM | 灯台 Lighthouse |
| 与名間崎 Yonamazaki | 011°T / 2.8NM | 灯台 Lighthouse |
| 亀徳港 Kametokuko | 127°T / 9.5NM | 漁港 Harbor |
| 犬田布崎 Inutabuzaki | 179°T / 6.8NM | 白い大きな慰靈碑 Big white monument |

CHANGE : VAR.

RJKN / TOKUNOSHIMA

Minimum Vectoring Altitude CHART

CHANGE : Shape of segment. Minimum vectoring altitude.

