

AD 2 AERODROMES

RJKN AD 2.1 AERODROME LOCATION INDICATOR AND NAME

RJKN - TOKUNOSHIMA

RJKN AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

| | | |
|---|--|---|
| 1 | ARP coordinates and site at AD | 275011N/1285253E 006° /1.0km FM RWY 01 THR |
| 2 | Direction and distance from (city) | 1km W of ASAMA |
| 3 | Elevation/ Reference temperature | 8ft / 32°C(2004-2008) |
| 4 | Geoid undulation at AD ELEV PSN | Nil |
| 5 | MAG VAR/ Annual change | 6°W(2021) / 5'W |
| 6 | AD Administration, address, telephone, telefax, telex, AFS, e-mail and/or Web-site addresses | KAGOSHIMA PREF. PUBLIC AP. 1-1, Asama, Amagi-cho, Oshima-gun, Kagoshima Pref. 891-8605 JAPAN Tel:0997-85-2238 Fax:0997-85-4054 |
| 7 | Types of traffic permitted(IFR/ VFR) | IFR/VFR |
| 8 | Remarks | Nil |

RJKN AD 2.3 OPERATIONAL HOURS

| | | |
|----|---------------------------|---|
| 1 | AD Administration | 2330 - 1030 |
| 2 | Customs and immigration | On request Customs: 099-260-3125 Immigration: 099-222-5658 |
| 3 | Health and sanitation | Quarantine(human): On request(099-222-8670) Quarantine(animal, plant): Nil |
| 4 | AIS Briefing Office | Nil |
| 5 | ATS Reporting Office(ARO) | Nil |
| 6 | MET Briefing Office | H24 (FUKUOKA) |
| 7 | ATS | 2330 - 1030 Remarks: AFIS provided by Kagoshima Airport Office. |
| 8 | Fuelling | 2330 - 1030 |
| 9 | Handling | 2330 - 1030 |
| 10 | Security | 2330 - 1030 |
| 11 | De-icing | Nil |
| 12 | Remarks | Nil |

RJKN AD 2.4 HANDLING SERVICES AND FACILITIES

| | | |
|---|---|---|
| 1 | Cargo-handling facilities | Nil |
| 2 | Fuel/ oil types | JET A-1 |
| 3 | Fuelling facilities/ capacity | Fuelling facilities : Fuel truck, Capacity : 24kl / h |
| 4 | De-icing facilities | Nil |
| 5 | Hangar space for visiting aircraft | Nil |
| 6 | Repair facilities for visiting aircraft | Nil |
| 7 | Remarks | Nil |

RJKN AD 2.5 PASSENGER FACILITIES

| | | |
|---|----------------------|---------------------------|
| 1 | Hotels | In the city |
| 2 | Restaurants | Available, not continuous |
| 3 | Transportation | Buses, taxis |
| 4 | Medical facilities | In the city |
| 5 | Bank and Post Office | In the city |
| 6 | Tourist Office | Not available |
| 7 | Remarks | Nil |

RJKN AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

| | | |
|---|---|----------------------------------|
| 1 | AD category for fire fighting | CAT : 7 |
| 2 | Rescue equipment | Chemical fire fighting truck x 2 |
| 3 | Capability for removal of disabled aircraft | Nil |
| 4 | Remarks | Nil |

RJKN AD 2.7 SEASONAL AVAILABILITY-CLEARING

| | | |
|---|-----------------------------|----------------|
| 1 | Types of clearing equipment | Not applicable |
| 2 | Clearance priorities | Nil |
| 3 | Remarks | Nil |

RJKN AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

| | | |
|---|-------------------------------------|--|
| 1 | Apron surface and strength | Apron Surface : Cement-concrete, Strength : PCN 52/R/B/X/T Apron(for light ACFT) Surface : Asphalt-concrete, Strength : PCN 12/F/C/Y/T |
| 2 | Taxiway width, surface and strength | T1, T2, P1 Width : 23m, Surface : Asphalt-concrete, Strength : PCN 52/F/C/X/T T3, P2 Width : 18m, Surface : Asphalt-concrete, Strength : PCN 12/F/C/Y/T |
| 3 | ACL and elevation | Not available |
| 4 | VOR checkpoints | Nil |
| 5 | INS checkpoints | Nil |
| 6 | Remarks | Nil |

RJKN AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

| | | |
|---|--|---|
| 1 | Use of aircraft stand ID signs, TWY guide lines and Visual docking/ parking guidance system of aircraft stands | Nil |
| 2 | RWY and TWY markings and LGT | RWY:01/19 (Marking)RWY designation, RWY CL, RWY THR, RWY side stripe (LGT)RCLL, REDL, RTHL, RENL TWY: (Marking) TWY CL, RWY HLDG PSN (T1-T3), TWY side stripe, (LGT) TWY edge LGT, TWY CL LGT (T1, T2, P1) |
| 3 | Stop bars | Nil |
| 4 | Remarks | (Marking) Overrun area (LGT) Apron flood LGT |

RJKN AD 2.10 AERODROME OBSTACLES

■ In Area2 See Obstacle data

■ In Area3 To be developed

RJKN AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

| | | |
|----|--|--|
| 1 | Associated MET Office | FUKUOKA |
| 2 | Hours of service MET Office outside hours | H24 (FUKUOKA) |
| 3 | Office responsible for TAF preparation Periods of validity | Nil |
| 4 | Trend forecast Interval of issuance | Nil |
| 5 | Briefing/ consultation provided | Briefing is available upon inquiry at FUKUOKA |
| 6 | Flight documentation Language(s) used | C En |
| 7 | Charts and other information available for briefing or consultation | S ₆ , U ₈₅ , U ₇ , U ₅ , U ₃ , U ₂₅ , U ₂ /T _r , P _S , P ₅ , P ₃ , P ₂₅ , P _{SWE} , P _{SWF} , P _{SWG} , P _{SWI} , P _{SWM} , P _{SW} (domestic), E, C, W _E , W _F , W _G , W _I , W, N |
| 8 | Supplementary equipment available for providing information | Nil |
| 9 | ATS units provided with information | RADIO |
| 10 | Additional information(limitation of service, etc.) | Nil |

RJKN AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

| Designations RWY NR | TRUE BRG | Dimensions of RWY(M) | Strength(PCN) and surface of RWY | THR coordinates THR geoid undulation | THR elevation and highest elevation of TDZ of precision APP RWY |
|------------------------|------------------------|--------------------------------|-------------------------------------|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 01 | 006.12° | 2000×45 | PCN 52/F/C/X/T Asphalt-Concrete | Nil | THR ELEV : 17ft |
| 19 | 186.12° | 2000×45 | PCN 52/F/C/X/T Asphalt-Concrete | Nil | THR ELEV : 14ft |
| Slope of RWY | Strip Dimensions(M) | RESA(Overrun) Dimensions(M) | Remarks | | |
| 7 | 10 | 11 | 14 | | |
| See AD2.24 AD chart | 2120x150 2120x150 | 45x150 44x150 | RWY Grooving: 2000mx30m | | |

RJKN AD 2.13 DECLARED DISTANCES

| RWY Designator | TORA (m) | TODA (m) | ASDA (m) | LDA (m) | Remarks |
|----------------|-------------|-------------|-------------|------------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 01 | 2000 | 2000 | 2000 | 2000 | Nil |
| 19 | 2000 | 2000 | 2000 | 2000 | Nil |

RJKN AD 2.14 APPROACH AND RUNWAY LIGHTING

| RWY Designator | APCH LGT type LEN INTST | RTHL Color WBAR | PAPI (VASIS) Angle DIST FM THR MEHT | RTZL LEN | RCLL LEN Spacing Color INTST | REDL LEN Spacing Color INTST | RENL Color WBAR | STWL LEN Color |
|---|-------------------------------------|-----------------------|---|-------------|---|--|-----------------------|----------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 01 | Nil | Green - | PAPI 3.0°/Left 417m 61ft | Nil | 2000m 30m Coded color (White/Red) LIH | 2000m 60m Coded color (White/Yellow) LIH | Red | Nil(*2) |
| 19 | SALS (*1) 420m LIH | Green - | PAPI 3.0°/LEFT 397m 61ft | NIL | 2000m 30m Coded color (White/Red) LIH | 2000m 60m Coded color (white/Yellow) LIH | Red | Nil(*2) |
| Remarks | | | | | | | | |
| 10 | | | | | | | | |
| SALS with RAI(LEN:480m)(*1) Overrun area edge LGT(LEN:60m Color:Red)(*2) RWY THR ID LGT for RWY 01 THR(Color:White) | | | | | | | | |

RJKN AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

| | | |
|---|--|--|
| 1 | ABN/IBN location, characteristics and hours of operation | ABN: 275003N/1285301E, White/Green EV4.3sec, HO |
| 2 | LDI location and LGT Anemometer location and LGT | LDI : Nil Anemometer : RWY 01 : 90m FM RWY 01 THR, LGTD RWY 19 : 260m FM RWY 19 THR, LGTD |
| 3 | TWY edge and centerline lighting | TWY edge and center line lights installed, see AD2.9 |
| 4 | Secondary power supply/ switch-over time | Within 15 sec : SALS, PAPI, RAI, ABN, REDL, RENL, RTHL, RCLL, Overrun area edge LGT, TWY CL LGT, TWY edge LGT, WDI LGT, RWY THR ID LGT |
| 5 | Remarks | Nil |

RJKN AD 2.16 HELICOPTER LANDING AREA

| |
|-----|
| Nil |
|-----|

RJKN AD 2.17 ATS AIRSPACE

| Designation and lateral limits | | Vertical limits (ft) | Airspace classification | ATS unit call sign Language | Remarks |
|--------------------------------|--|----------------------|-------------------------|-----------------------------|---------|
| 1 | | 2 | 3 | 4 | 6 |
| Tokunoshima Information Zone | Area within a radius of 5nm (9km) of Tokunoshima ARP | 3,000 or below | E | TOKUNOSHIMA RADIO En | |

RJKN AD 2.18 ATS COMMUNICATION FACILITIES

| Service designation | Call sign | Frequency | Hours of operation | Remarks |
|---------------------|-------------------|-----------|--------------------|--|
| 1 | 2 | 3 | 4 | 5 |
| AFIS | TOKUNOSHIMA RADIO | 122.7MHz | 2330 - 1030 | Operated by Kagoshima Airport Office. Unable contact radial 055°(W-13) beyond 20NM at or BLW 4,000ft. |

RJKN AD 2.19 RADIO NAVIGATION AND LANDING AIDS

| Type of aid (VOR declination) | ID | Frequency | Hours of operation | Position of transmitting antenna coordinates | Elevation of DME transmitting antenna | Remarks |
|-------------------------------|-----|------------------|--------------------|--|---------------------------------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| VOR (5°W / 2020) | TKE | 110.45MHz | H24 | 274929.20N/ 1285255.98E | | VOR unusable : 020°-040° beyond 20nm BLW 4000ft. 040°-070° beyond 20nm BLW 5000ft. 070°-100° beyond 20nm BLW 4000ft. 100°-120° beyond 30nm BLW 5000ft. 120°-130° beyond 20nm BLW 5000ft. 130°-140° beyond 30nm BLW 5000ft. |
| DME | TKE | 1128MHz (CH-41Y) | H24 | 274929.20N/ 1285255.98E | 51ft | DME unusable : 020°-040° beyond 20nm BLW 4000ft. 040°-070° beyond 20nm BLW 5000ft. 070°-100° beyond 20nm BLW 4000ft. 100°-110° beyond 30nm BLW 5000ft. 110°-120° beyond 20nm BLW 5000ft. 120°-130° beyond 15nm BLW 5000ft. 130°-140° beyond 30nm BLW 5000ft. |
| LOC 19 | ITK | 110.1MHz | 2330 - 1030 | 275005.64N/ 1285257.59E | | LOC : 843m (2756ft) inside FM RWY 01 THR, 144m (472ft) E of RCL, BRG (MAG) 188°. (1) OFFSET angle 3.0° (2) Unusable: beyond 10°east(90Hz) side of course. |
| LOC-DME 19 | ITK | 999MHz (CH-38X) | 2330 - 1030 | 275005.01N/ 1285258.17E | 25ft | DME : 826m (2710ft) inside FM RWY 01 THR, 164m (538ft) E of RCL. |

LOC and LOC-DME



REMARKS : 1. LOC OFF SET ANGLE 3.0°
 2. LOC beam BRG(MAG) 188°
 3. ELEV of LOC-DME 7.7m (25ft)

LOC UNUSABLE : BEYOND 10DEGREES EAST (90Hz) SIDE OF COURSE.



RJKN AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Airport regulations

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| Nil |
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2. Taxiing to and from stands

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| Nil |
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3. Parking area for small aircraft(General aviation)

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| Nil |
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4. Parking area for helicopters

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| Nil |
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5. Apron - taxiing during winter conditions

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| Nil |
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6. Taxiing - limitations

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| Nil |
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7. School and training flights - technical test flights - use of runways

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| Nil |
|-----|

8. Helicopter traffic - limitation

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|-----|
| Nil |
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9. Removal of disabled aircraft from runways

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| Nil |
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RJKN AD 2.21 NOISE ABATEMENT PROCEDURES

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|-----|
| Nil |
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RJKN AD 2.22 FLIGHT PROCEDURES

TAKE OFF MINIMA

| | RWY | ACFT CAT | REDL & RCLL | | REDL or RCLL or RCL Marking | | NIL (DAYTIME ONLY) | |
|--|-----|-------------|-----------------|------|--------------------------------|------|-----------------------|------|
| | | | RVR | VIS | RVR | VIS | RVR | VIS |
| Multi-Engine ACFT with TKOF ALTN AP FILED | 01 | A,B,C,D | - | 400m | - | 400m | - | 500m |
| | 19 | A,B,C,D | - | 400m | - | 400m | - | 500m |
| OTHER | 01 | A,B,C,D | AVBL LDG MINIMA | | | | | |
| | 19 | | | | | | | |

RJKN AD 2.23 ADDITIONAL INFORMATION

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| Nil |
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RJKN AD 2.24 CHARTS RELATED TO AN AERODROME

Aerodrome/Heliport Chart
Standard Departure Chart - Instrument (TOKUNOSHIMA)
Standard Departure Chart - Instrument (ANOXA-RNAV)
Standard Departure Chart - Instrument (YUWAN-RNAV)
Standard Arrival Chart - Instrument (SHODA-RNAV, ISENN-RNAV)
Standard Arrival Chart - Instrument (TOROS NORTH, TOROS EAST-RNAV)
Standard Arrival Chart - Instrument (SOTEZ ARRIVAL)
Instrument Approach Chart (LOC Z RWY 19)
Instrument Approach Chart (LOC Y RWY 19)
Instrument Approach Chart (VOR RWY 01)
Instrument Approach Chart (RNP Z RWY 01)
Instrument Approach Chart (RNP Y RWY 01 (AR))
Other Chart (Visual REP)
Other Chart (MVA CHART)

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RJKN / TOKUNOSHIMA

AD CHART



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 YUWAN
or AME VOR/DME.

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

CHANGE : PROC renamed(TOKUNOSHIMA FIVE DEPARTURE). PROC course(SID, TRANSITION).

STANDARD DEPARTURE CHART -INSTRUMENT

RJKN / TOKUNOSHIMA

SID and TRANSITION

CHANGE : PROC renamed(TOKUNOSHIMA FIVE DEPARTURE). PROC course(SID, TRANSITION).



STANDARD DEPARTURE CHART -INSTRUMENT

RJKN / TOKUNOSHIMA

RNAV SID

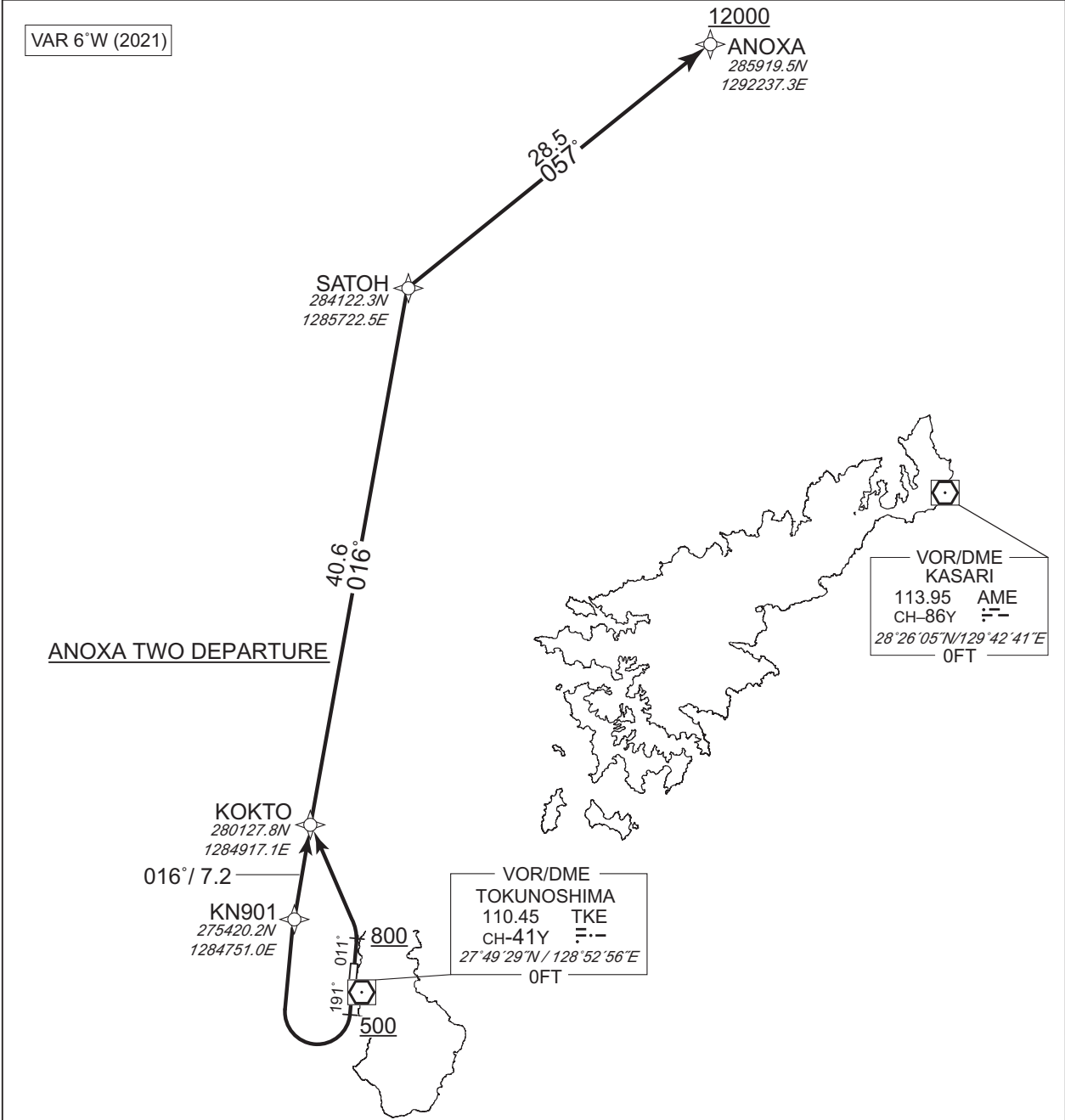
| ANOXA TWO DEPARTURE | Basic RNP1 |
|---------------------|------------|
|---------------------|------------|

Note GNSS required.

VAR 6°W (2021)

ANOXA TWO DEPARTURE

CHANGE : VAR. PROC renamed. PROC course.



ANOXA TWO DEPARTURE

RWY01 : Climb on HDG011° at or above 800FT, turn left direct to KOKTO, to SATOH, to ANOXA at or above 12000FT.

RWY19 : Climb on HDG191° at or above 500FT, turn right direct to KN901, to KOKTO, to SATOH, to ANOXA at or above 12000FT.

Note RWY01 : 6.1% climb gradient required up to 800FT.
OBST ALT 460FT located at 1.4NM 029° FM end of RWY01.

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

CHANGE : VAR. PROC renamed. PROC course.

STANDARD DEPARTURE CHART -INSTRUMENT

RJKN / TOKUNOSHIMA

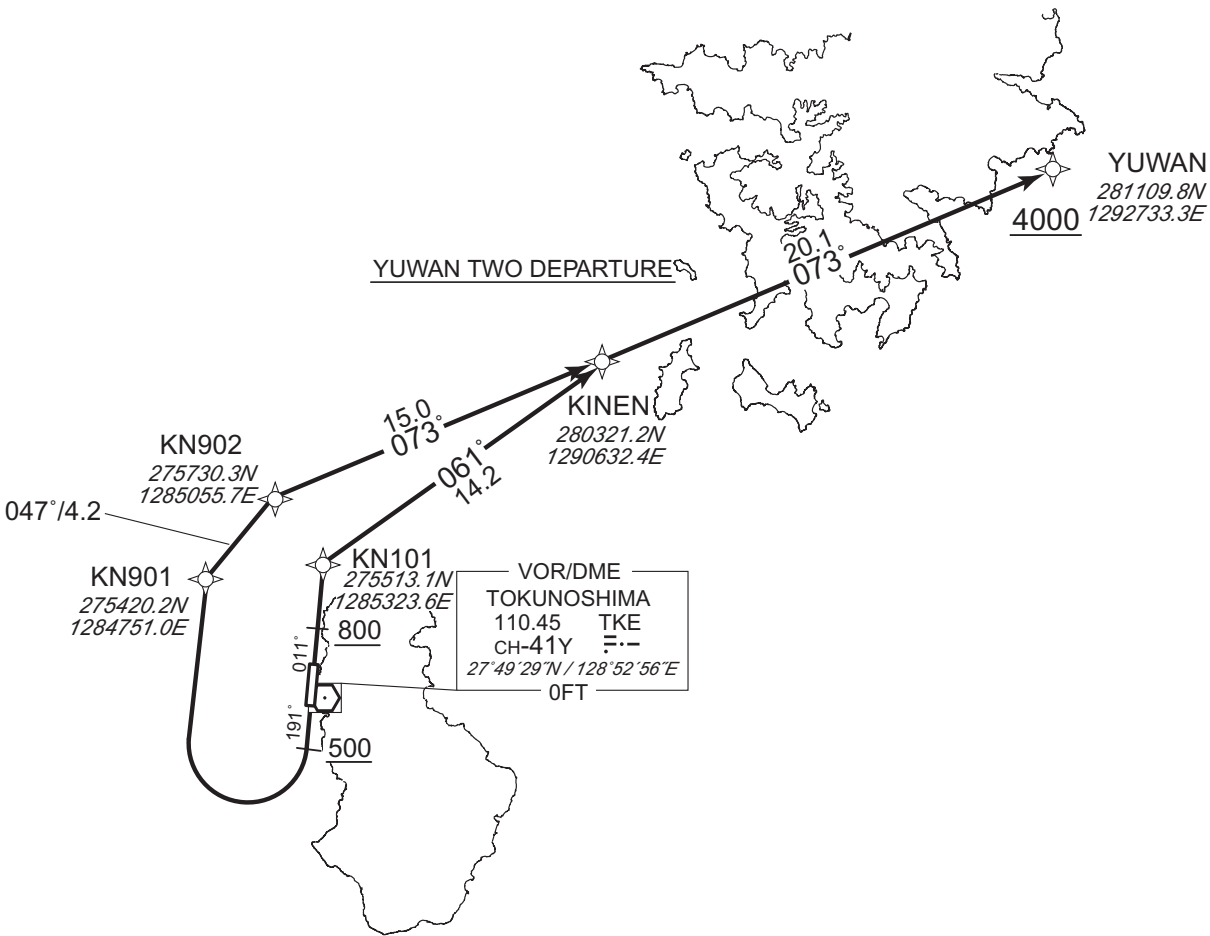
RNAV SID

YUWAN TWO DEPARTURE

Basic RNP1

Note GNSS required.

VAR 6°W (2021)



YUWAN TWO DEPARTURE

RWY01 : Climb on HDG 011° at or above 800FT, direct to KN101, to KINEN, to YUWAN at or above 4000FT.

RWY19 : Climb on HDG 191° at or above 500FT, turn right direct to KN901, to KN902, to KINEN, to YUWAN at or above 4000FT.

Note RWY01 : 6.1% climb gradient required up to 800FT.
OBST ALT 460FT located at 1.4NM 029° FM end of RWY01.

CHANGE : VAR. PROC renamed. PROC course.

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 | — | — | Basic RNP1 |
| 002 | DF | KN101 | — | — | -6.1 | — | — | — | — | — | Basic RNP1 |
| 003 | TF | KINEN | — | 061 (054.9) | -6.1 | 14.2 | — | — | — | — | Basic RNP1 |
| 004 | TF | YUWAN | — | 073 (067.1) | -6.1 | 20.1 | — | +4000 | — | — | Basic 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 | — | — | Basic RNP1 |
| 002 | DF | KN901 | — | — | -6.1 | — | R | — | — | — | Basic RNP1 |
| 003 | TF | KN902 | — | 047 (040.6) | -6.1 | 4.2 | — | — | — | — | Basic RNP1 |
| 004 | TF | KINEN | — | 073 (066.9) | -6.1 | 15.0 | — | — | — | — | Basic RNP1 |
| 005 | TF | YUWAN | — | 073 (067.1) | -6.1 | 20.1 | — | +4000 | — | — | Basic RNP1 |

CHANGE : VAR. PROC renamed. PROC course.

STANDARD ARRIVAL CHART - INSTRUMENT

RJKN / TOKUNOSHIMA

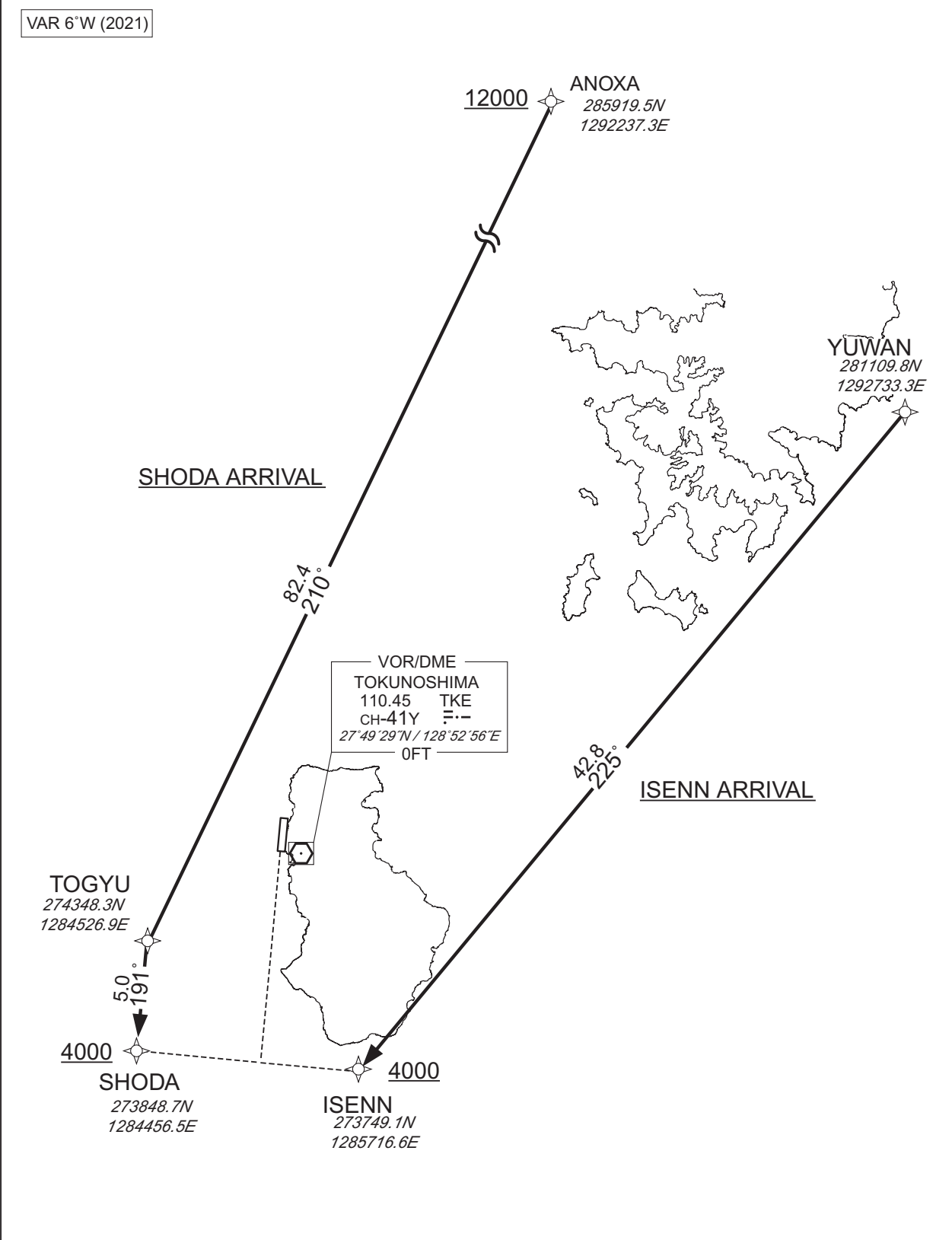
RNAV STAR RWY01

| | |
|--------------------------------|------------|
| SHODA ARRIVAL ISENN ARRIVAL | Basic RNP1 |
|--------------------------------|------------|

Note GNSS required.

VAR 6°W (2021)

CHANGE : VAR. PROC course.



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 | — | — | Basic RNP1 |
| 002 | TF | TOGYU | — | 210 (203.6) | -6.1 | 82.4 | — | — | — | — | Basic RNP1 |
| 003 | TF | SHODA | — | 191 (185.1) | -6.1 | 5.0 | — | +4000 | — | — | Basic RNP1 |

ISENN ARRIVAL

From YUWAN, to ISENN at or above 4000FT.

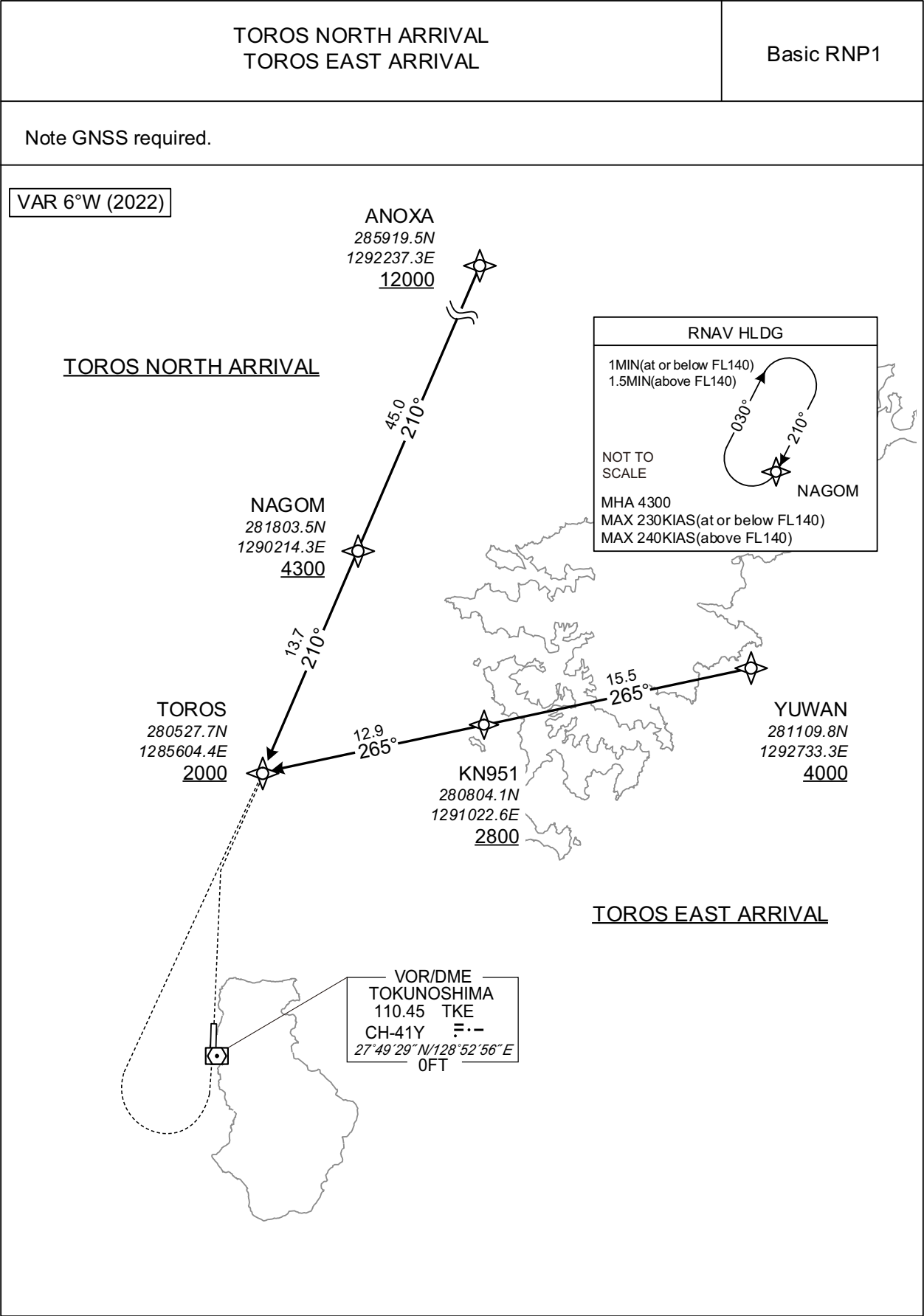
| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | YUWAN | — | — | -6.1 | — | — | — | — | — | Basic RNP1 |
| 002 | TF | ISENN | — | 225 (218.9) | -6.1 | 42.8 | — | +4000 | — | — | Basic RNP1 |

CHANGE : VAR. PROC course.

STANDARD ARRIVAL CHART - INSTRUMENT

RJKN / TOKUNOSHIMA

RNAV STAR



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 | - | - | Basic RNP1 |
| 002 | TF | NAGOM | - | 210 (203.5) | -6.2 | 45.0 | - | +4300 | - | - | Basic RNP1 |
| 003 | TF | TOROS | - | 210 (203.4) | -6.2 | 13.7 | - | +2000 | - | - | Basic 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 | - | - | Basic RNP1 |
| 002 | TF | KN951 | - | 265 (258.5) | -6.2 | 15.5 | - | +2800 | - | - | Basic RNP1 |
| 003 | TF | TOROS | - | 265 (258.4) | -6.2 | 12.9 | - | +2000 | - | - | Basic 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) | Basic RNP1 |

CHANGE : VAR. PROC course. HLDG course.

STANDARD ARRIVAL CHART - INSTRUMENT

RJKN / TOKUNOSHIMA RNAV STAR RWY19



SOTEZ ARRIVAL

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

CHANGE : New PROC.

INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMA

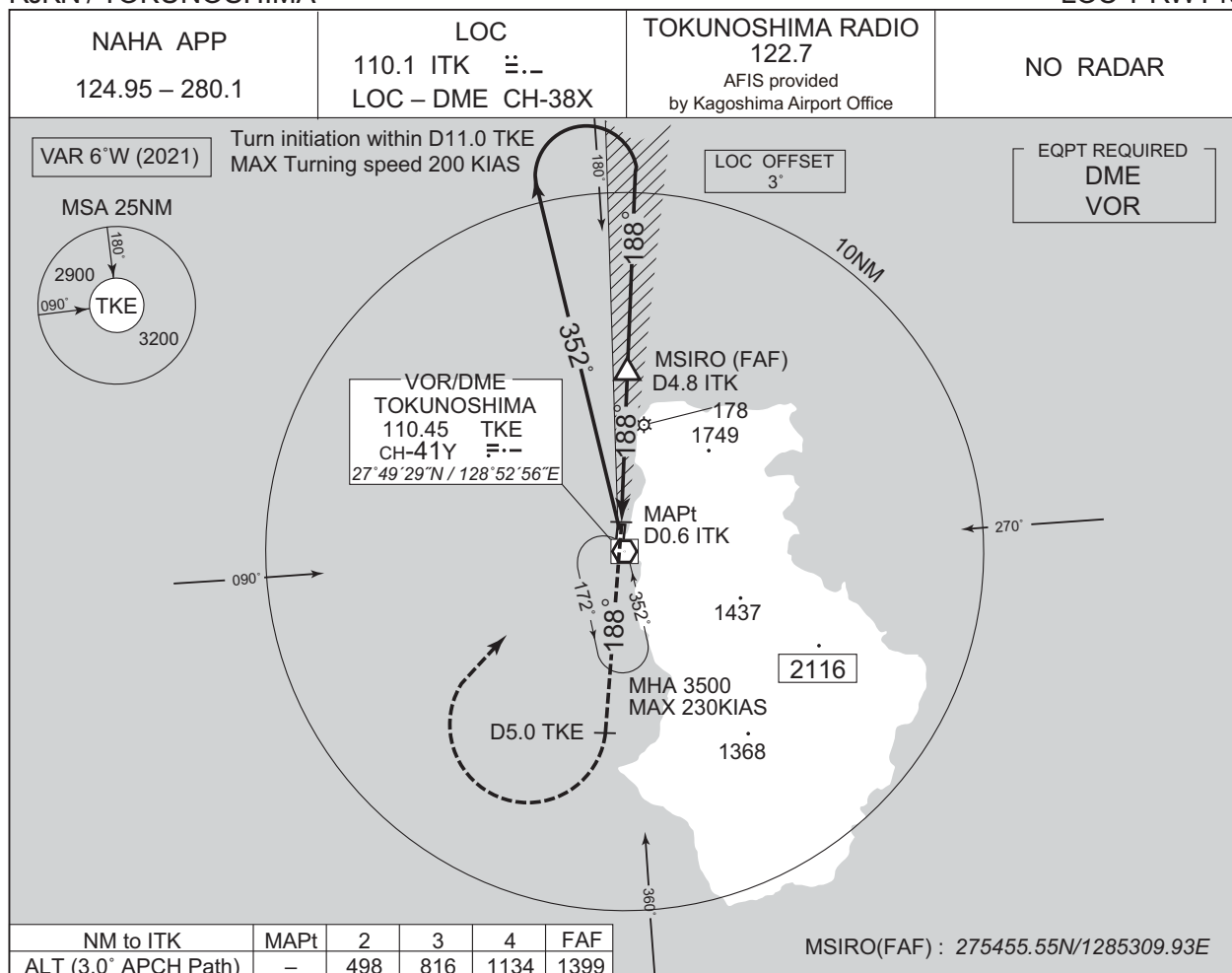
LOC Z RWY19



INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMA

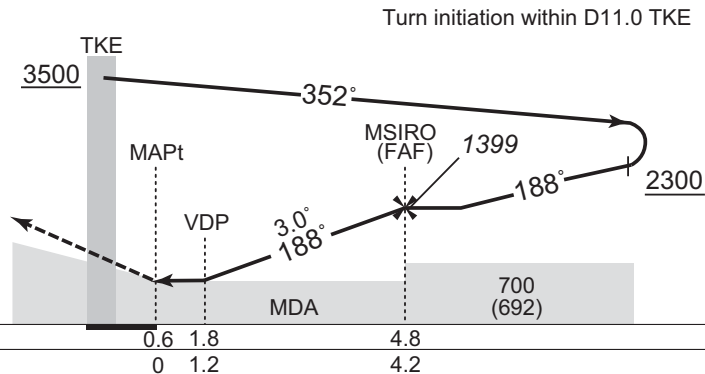
LOC Y RWY19



MISSED APPROACH

Climb via TKE R188 to 5.0DME,
turn right, direct to TKE VOR/DME
and hold at 3500FT.
Contact TOKUNOSHIMA RADIO.

Timing not authorized for defining the MAPt.



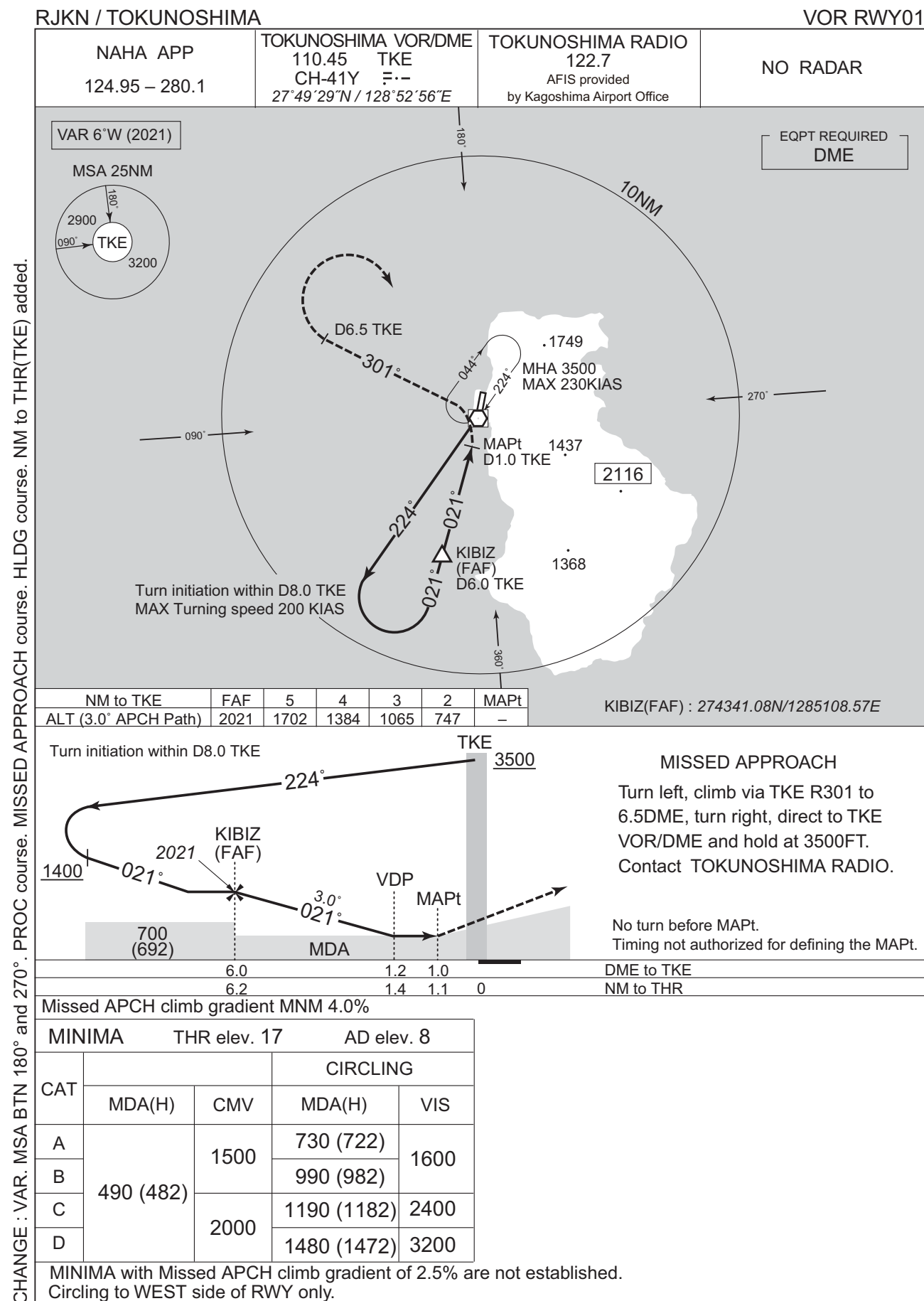
Missed APCH climb gradient MNM 5.0%

| 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) | 2400 |
| D | | | 1480 (1472) | |

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

CHANGE : VAR. MSA BTN 180° and 270°. PROC course. MISSED APPROACH course. HLDG course.

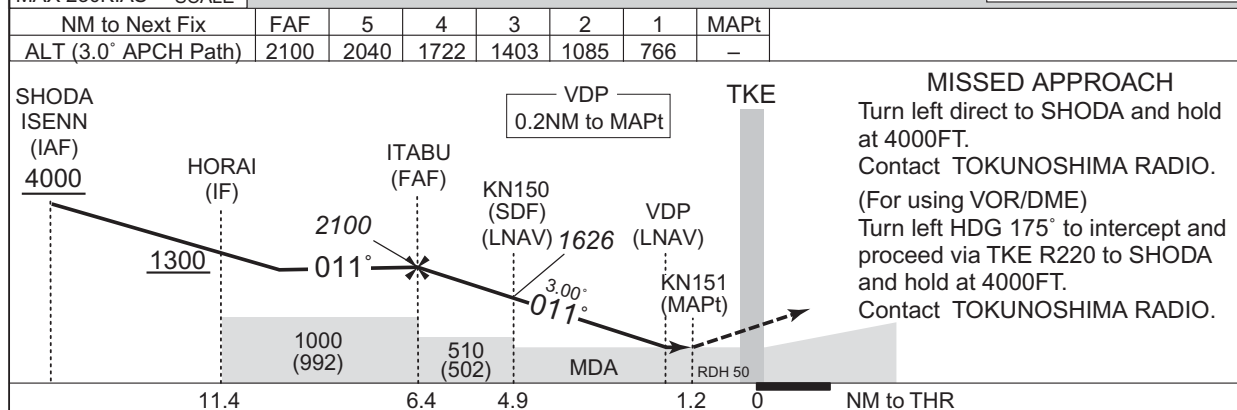
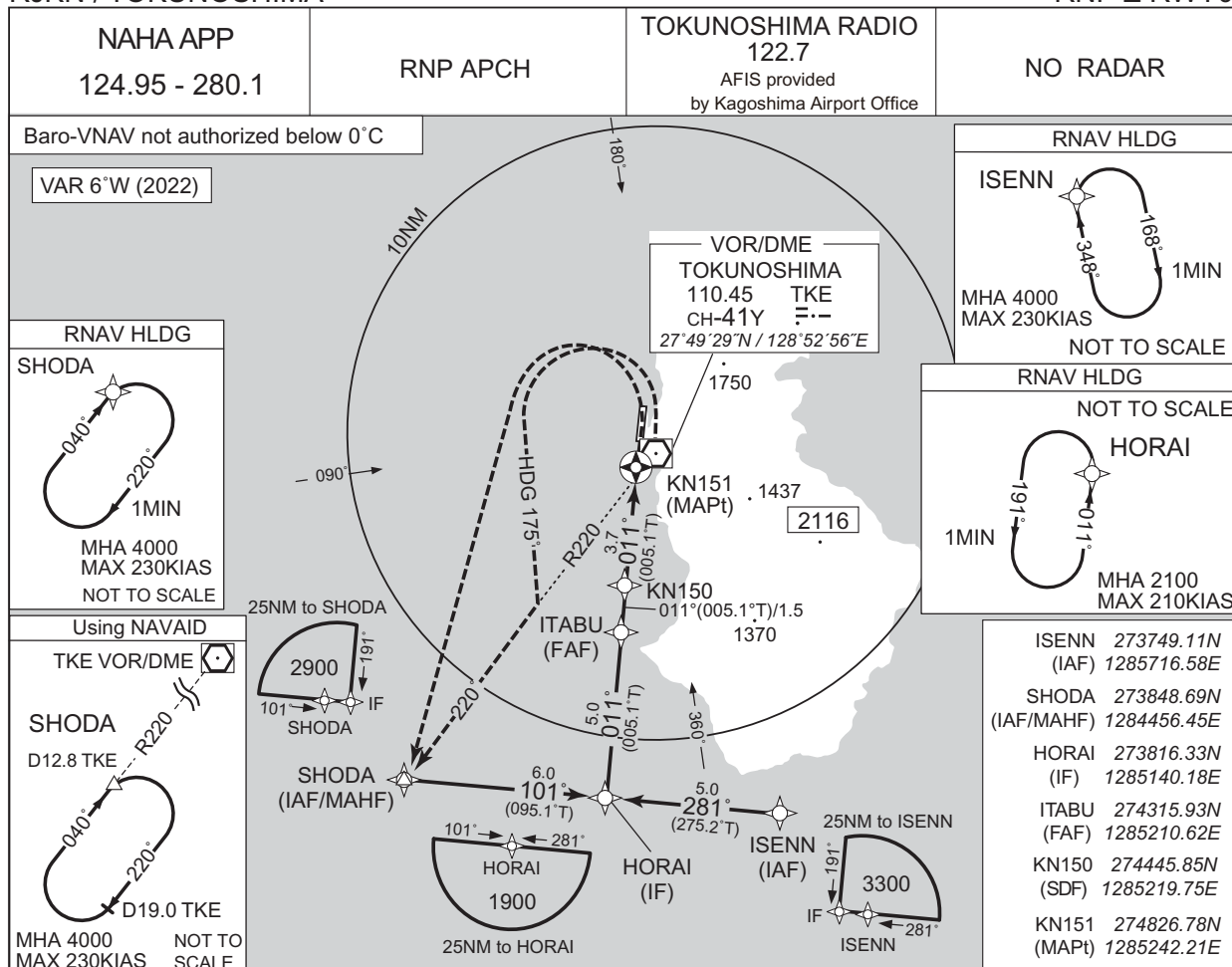
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMA

RNP Z RWY01



Missed APCH climb gradient MNM 5.0%

| MINIMA | | THR elev. 17 | | AD elev. 8 | | |
|--------|-----------|--------------|-----------|------------|-------------|------|
| CAT | LNAV/VNAV | | LNAV | | CIRCLING | |
| | DA(H) | CMV | MDA(H) | CMV | MDA(H) | VIS |
| A | 490 (473) | 1500 | 490 (482) | 1500 | 730 (722) | 1600 |
| B | | | | | 990 (982) | |
| C | | 2000 | | 2000 | 1190 (1182) | 2400 |
| D | | | | | 1480 (1472) | 3200 |

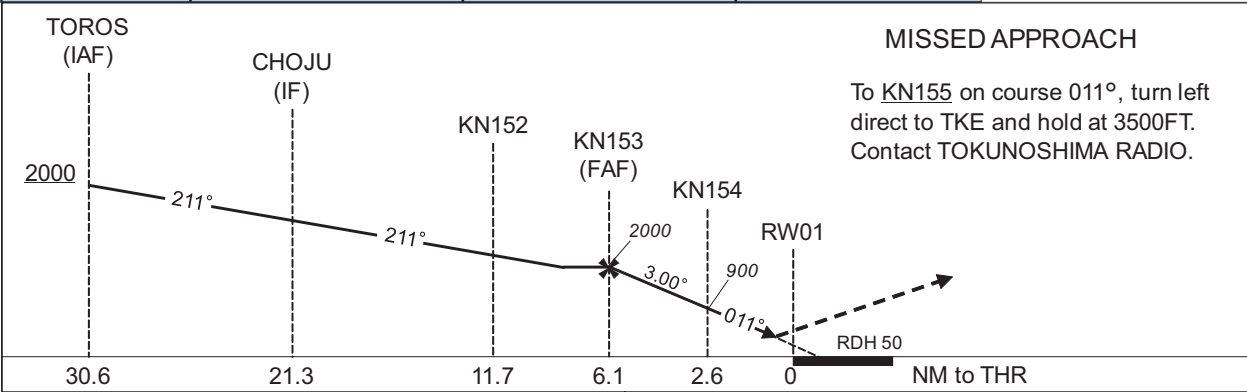
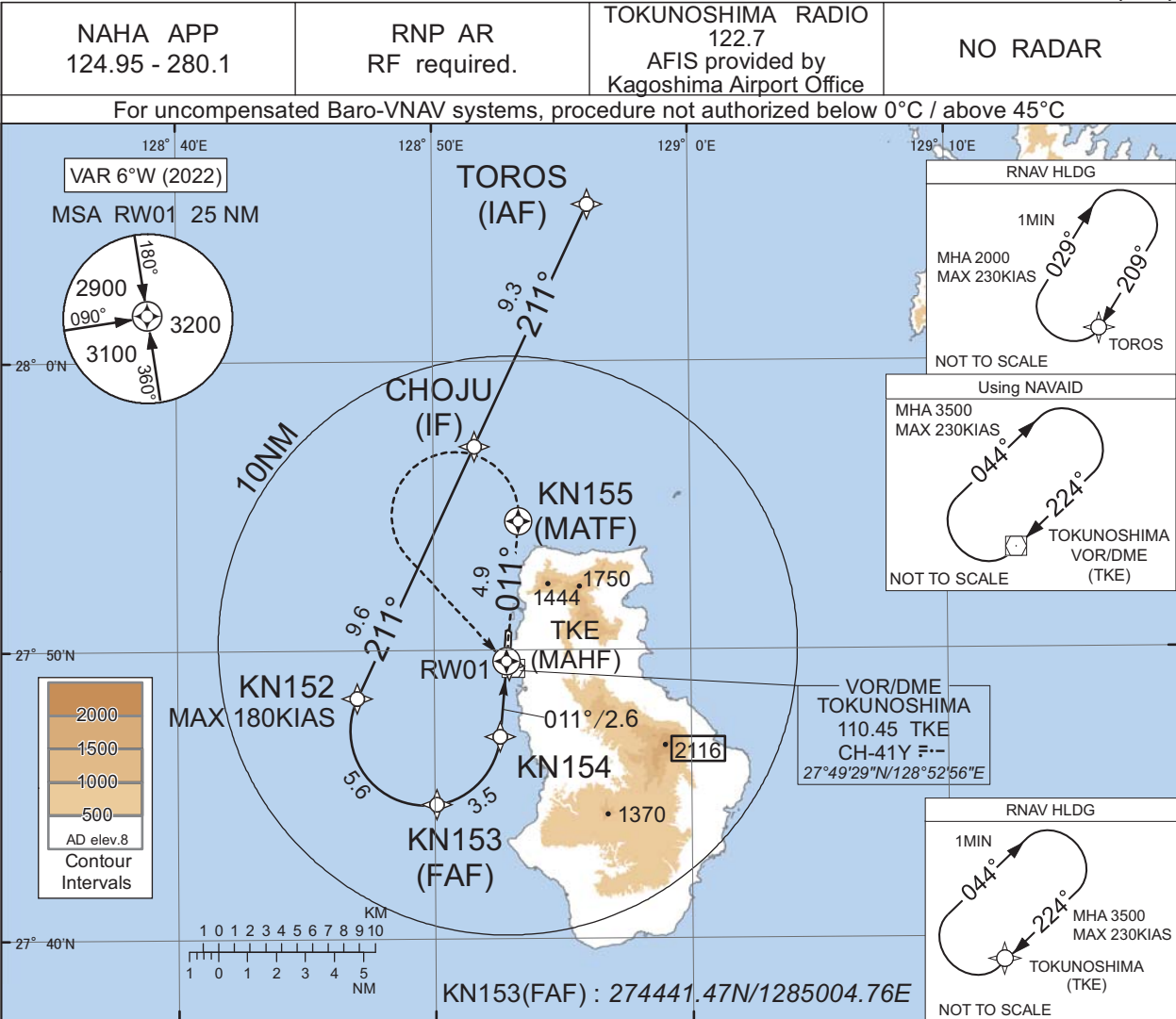
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to WEST side of RWY only.

CHANGE : KN150 established.

INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMA

RNP Y RWY01(AR)



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 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.



※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 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 | 白い大きな慰霊碑 Big white monument |

RJKN / TOKUNOSHIMA

Minimum Vectoring Altitude CHART

