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, taxies
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: PCR 687/R/B/W/T Apron(for light ACFT) Surface: Asphalt-concrete, Strength : PCR 196/F/C/X/T
2	Taxiway width, surface and strength	T1, T2, P1 Width: 23m, Surface : Aspahlt-concrete, Strength: PCR 616/F/C/X/T T3, P2 Width: 18m, Surface : Aspahlt-concrete, Strength: PCR 196/F/C/X/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(PCR) 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	PCR 616/F/C/X/T Asphalt-Concrete	Nil	THR ELEV : 17ft
19	186.12°	2000×45	PCR 616/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	
Naha ACA	See ROAH attached chart		E	Naha APP En	

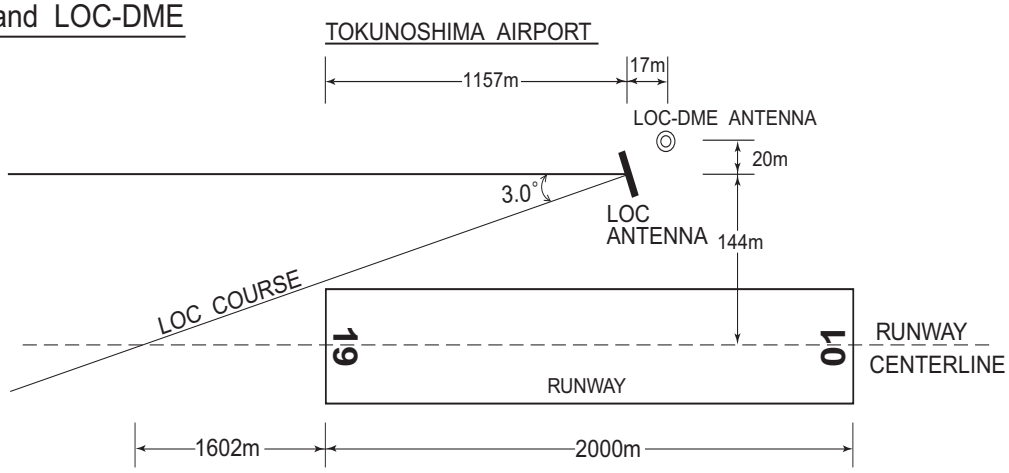
RJKN AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
APP	NAHA APPROACH	124.95MHz 280.1MHz	2330 - 1030	
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

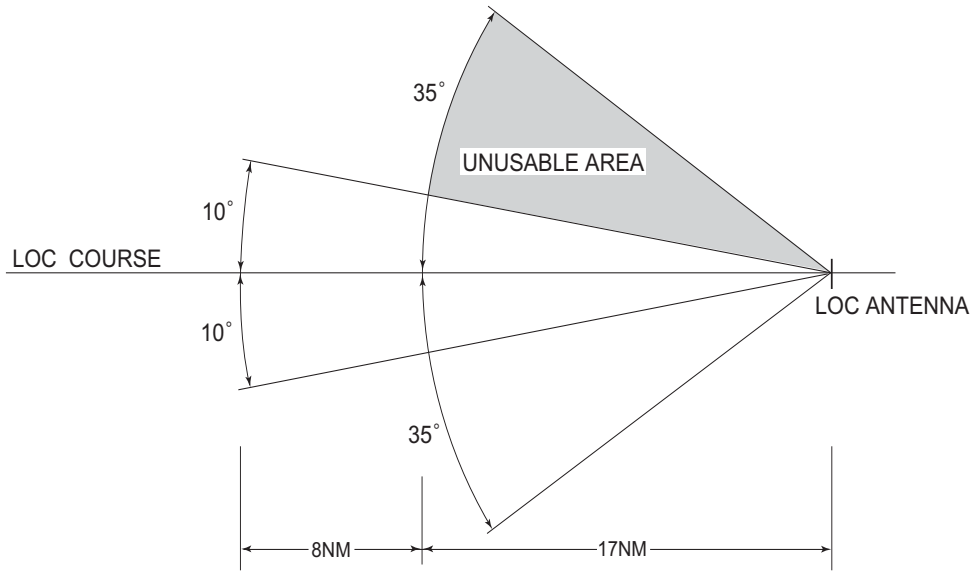
Type of aid (VOR declination)	ID	Frequency	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
VOR (5°W / 2020)	TKE	110.45MHz	H24	*274929.20N/ 1285255.98E*		VOR unusable : 020°-040° beyond 20nm BLW 4000ft. 040°-070° beyond 20nm BLW 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*	27ft	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 8.2m(27ft)

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



RJKN AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Airport regulations

Nil

2. Taxiing to and from stands

Nil

3. Parking area for small aircraft(General aviation)

Nil

4. Parking area for helicopters

Nil

5. Apron - taxiing during winter conditions

Nil

6. Taxiing - limitations

Nil

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

Nil

8. Helicopter traffic - limitation

Nil

9. Removal of disabled aircraft from runways

Nil

RJKN AD 2.21 NOISE ABATEMENT PROCEDURES

Nil

RJKN AD 2.22 FLIGHT PROCEDURES

1.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							

2.Lost communication procedures for arrival aircraft under radar navigational guidance

If radio communications with Naha Approach are lost for one minute, squawk Mode A/3 Code 7600 and;

1) Contact Tokunoshima Radio.
2) If unable, proceed in accordance with Visual Flight Rules.
3) If unable, proceed to Tokunoshima VOR at the last assigned altitude, or 3,500 feet whichever is higher, and execute instrument approach.

NOTE: Procedures other than above will be issued when situation requires.

RJKN AD 2.23 ADDITIONAL INFORMATION

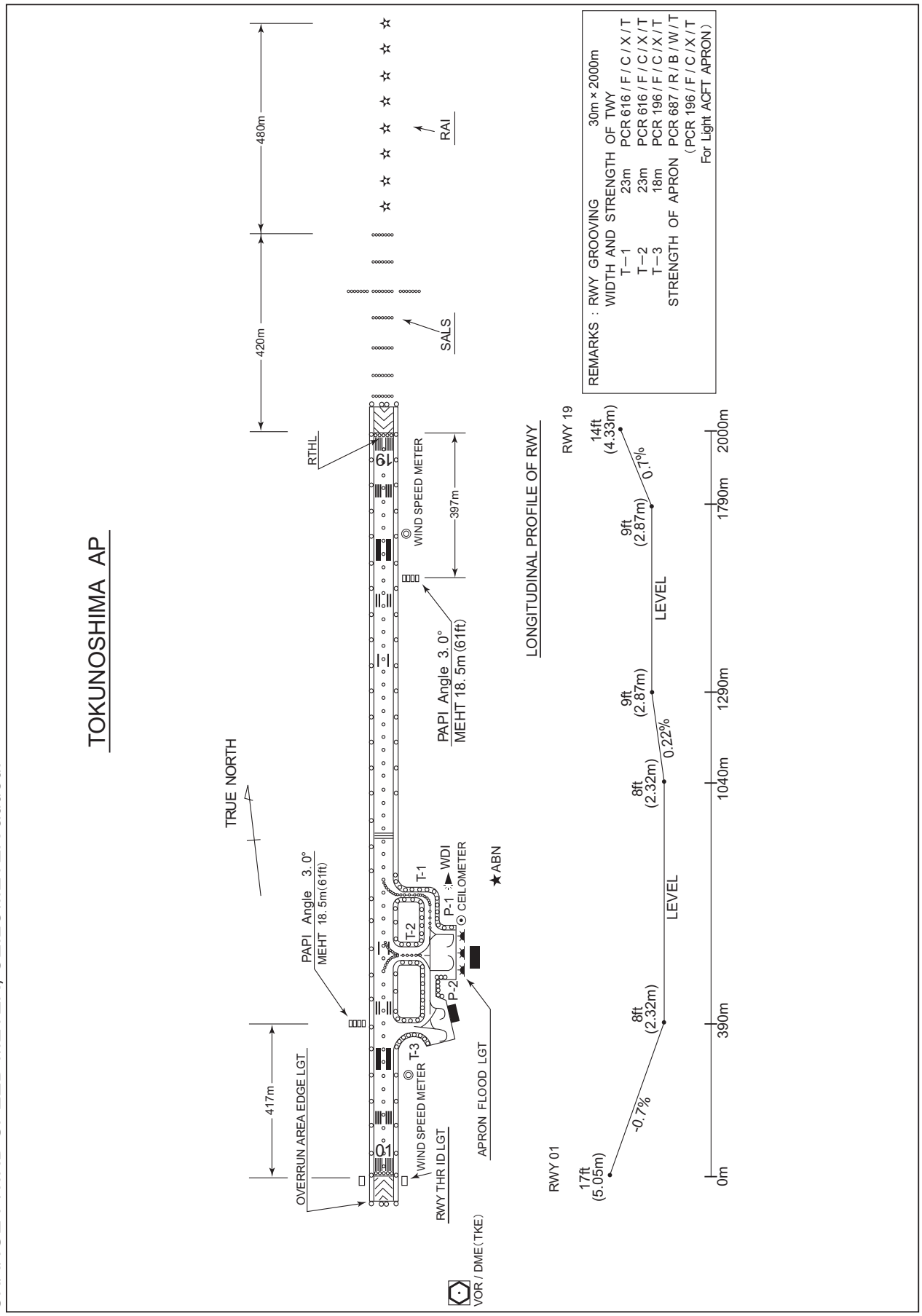
Nil

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)

RJKN / TOKUNOSHIMA AD CHART

CHANGE : WIND SPEED METER, CEILOMETER added.



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.

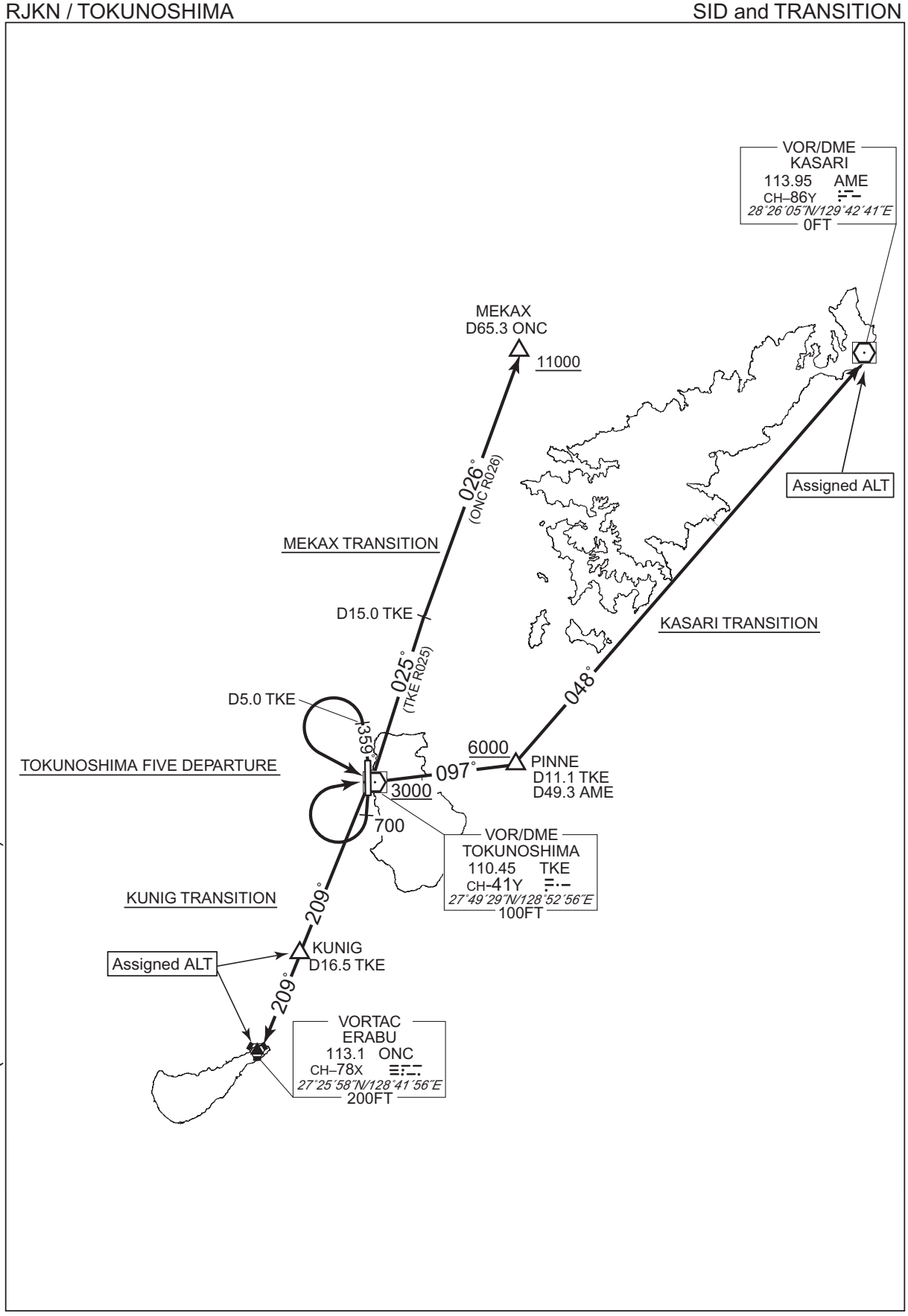
KASARI TRANSITION

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



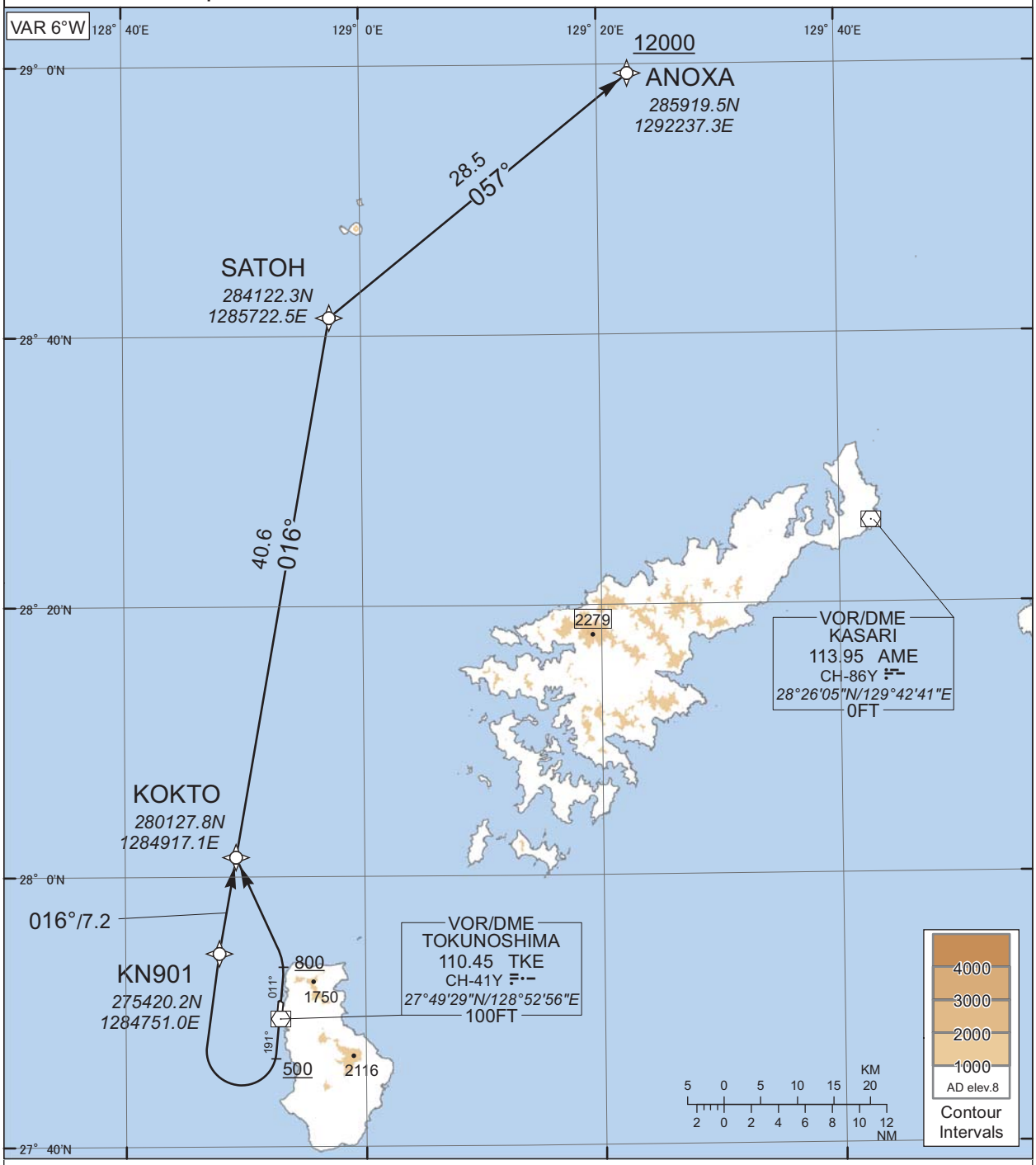
CHANGE : PROC course(KASARI TRANSITION).

STANDARD DEPARTURE CHART -INSTRUMENT

RJKN / TOKUNOSHIMA — RNAV SID

ANOXA TWO DEPARTURE	RNP1

Note GNSS required.



CHANGE : Navigation Specification(Basic RNP1→RNP1).

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	-	-	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

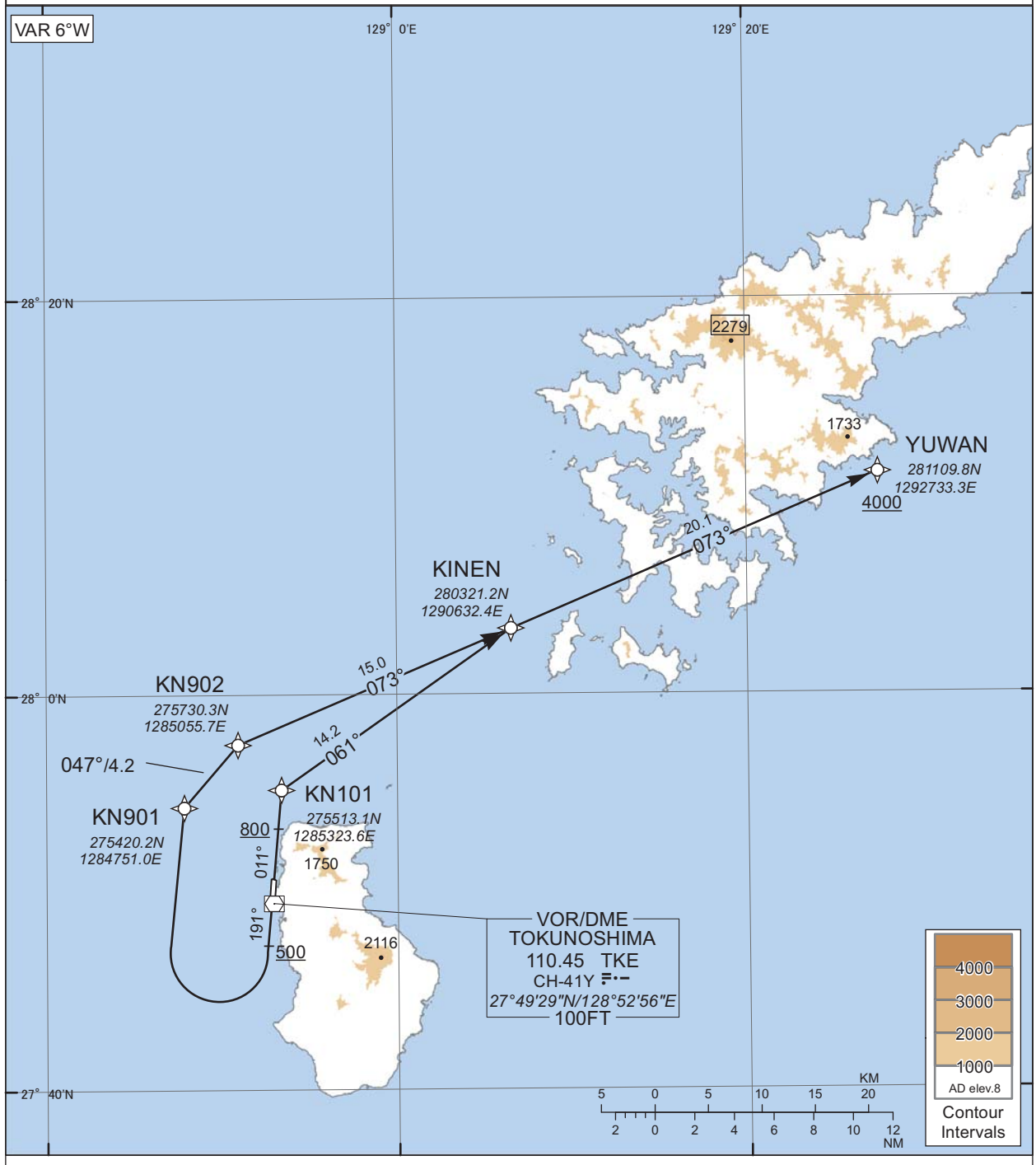
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	191 (185.1)	-6.1	-	-	+500	-	-	RNP1
002	DF	KN901	-	-	-6.1	-	R	-	-	-	RNP1
003	TF	KOKTO	-	016 (010.1)	-6.1	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.	



CHANGE : Navigation Specification(Basic RNP1→RNP1).

RWY01 : Climb on HDG011° at or above 800FT, direct to KN101, to KINEN, to YUWAN at or above 4000FT.

RWY19 : Climb on HDG191° 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.

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).

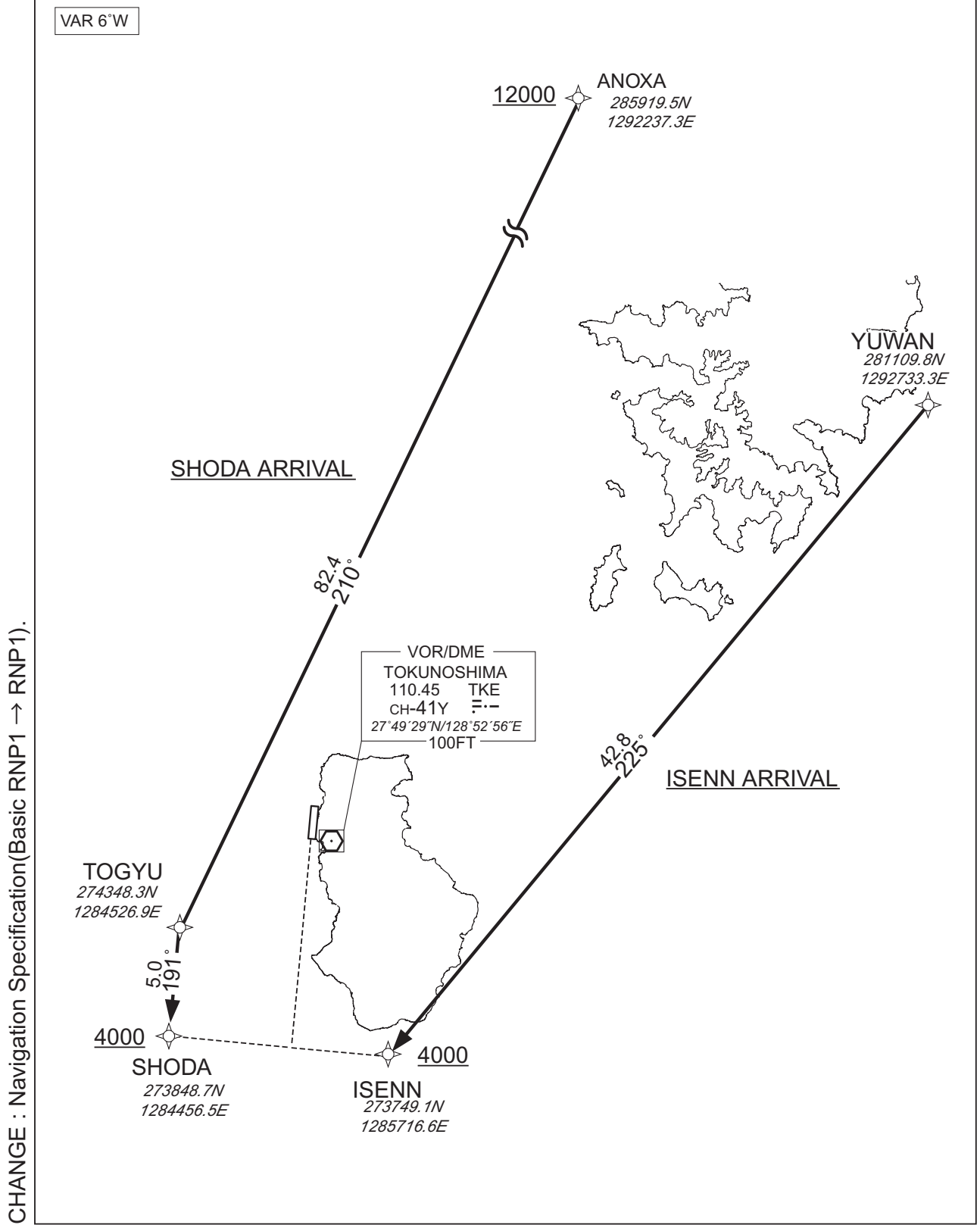
STANDARD ARRIVAL CHART - INSTRUMENT

RJKN / TOKUNOSHIMA

RNAV STAR RWY01

SHODA ARRIVAL ISENN ARRIVAL	RNP1

Note GNSS required.



STANDARD ARRIVAL CHART - INSTRUMENT

RJKN / TOKUNOSHIMA RNAV STAR RWY01

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

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.

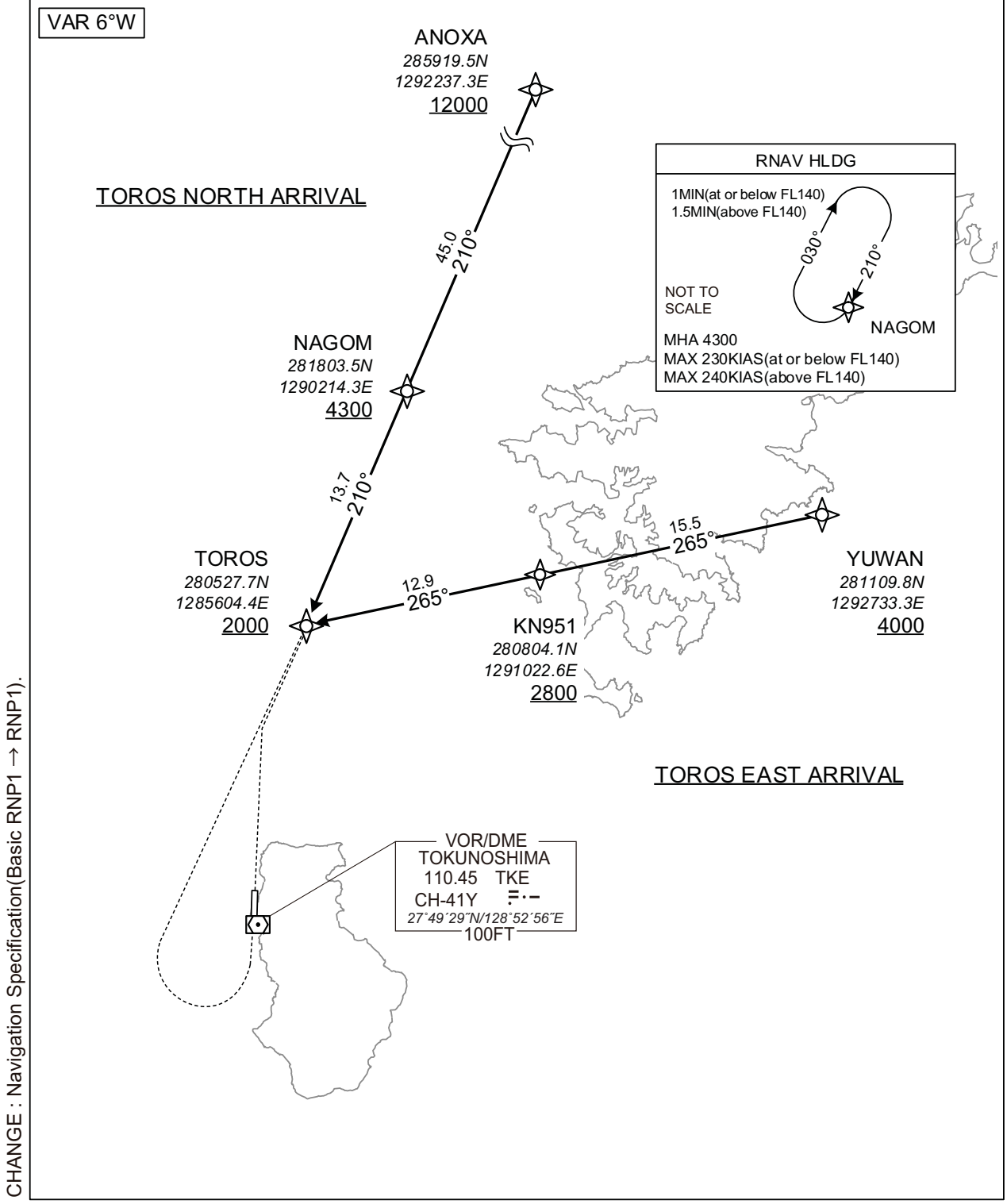
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	YUWAN	-	-	-6.1	-	-	-	-	-	RNP1
002	TF	ISENN	-	225 (218.9)	-6.1	42.8	-	+4000	-	-	RNP1

STANDARD ARRIVAL CHART - INSTRUMENT

RJKN / TOKUNOSHIMA RNAV STAR

TOROS NORTH ARRIVAL TOROS EAST ARRIVAL	RNP1

Note GNSS required.



CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD ARRIVAL CHART - INSTRUMENT

RJKN / TOKUNOSHIMA RNAV STAR

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

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

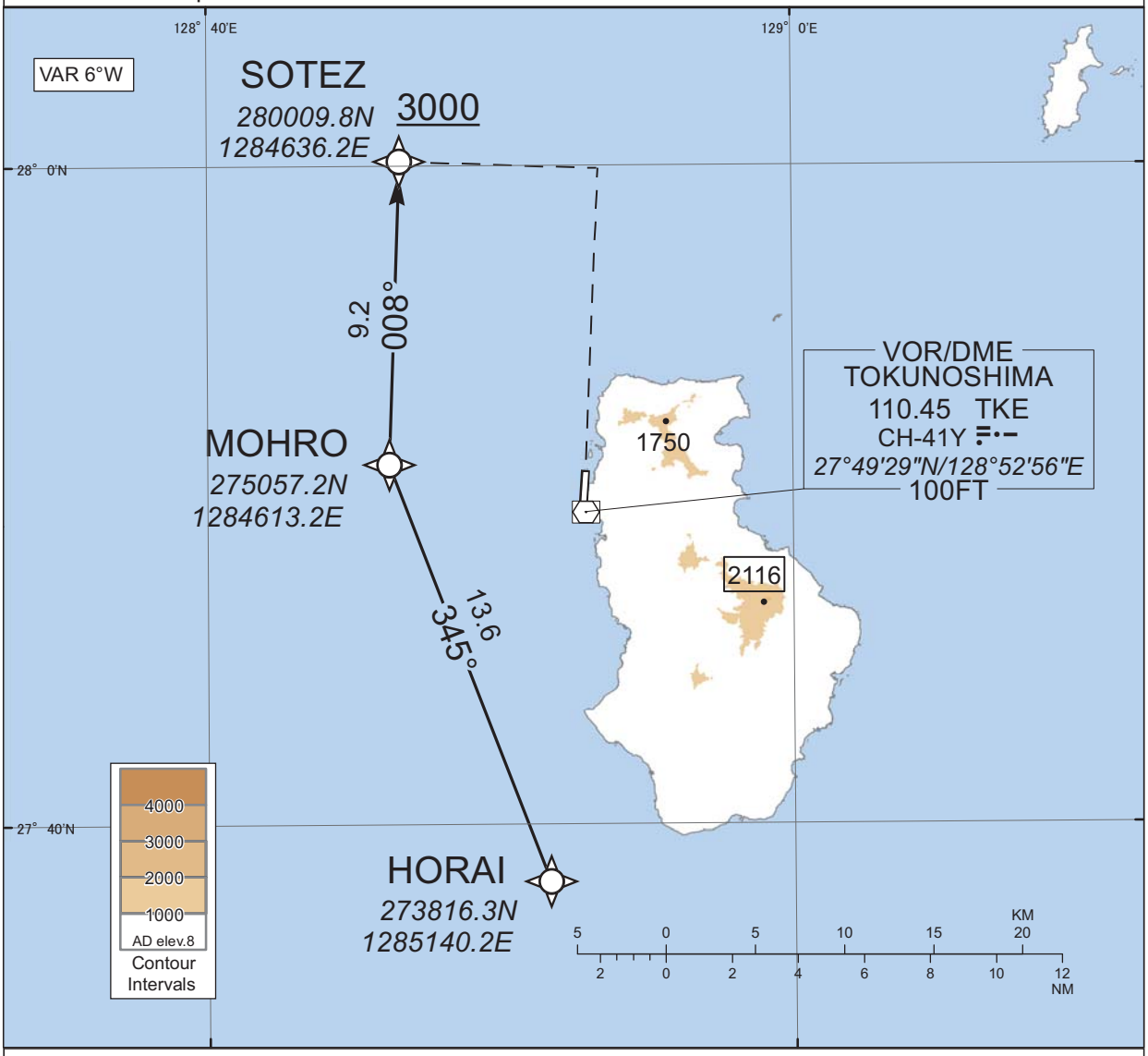
Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	NAGOM	210 (203.4)	-6.2	1.0 (-14000) 1.5 (+14001)	R	4300	-	-230 (-14000) -240 (+14001)	RNP1

STANDARD ARRIVAL CHART - INSTRUMENT

RJKN / TOKUNOSHIMA — RNAV STAR RWY19

SOTEZ ARRIVAL	RNP1

Note GNSS required.



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

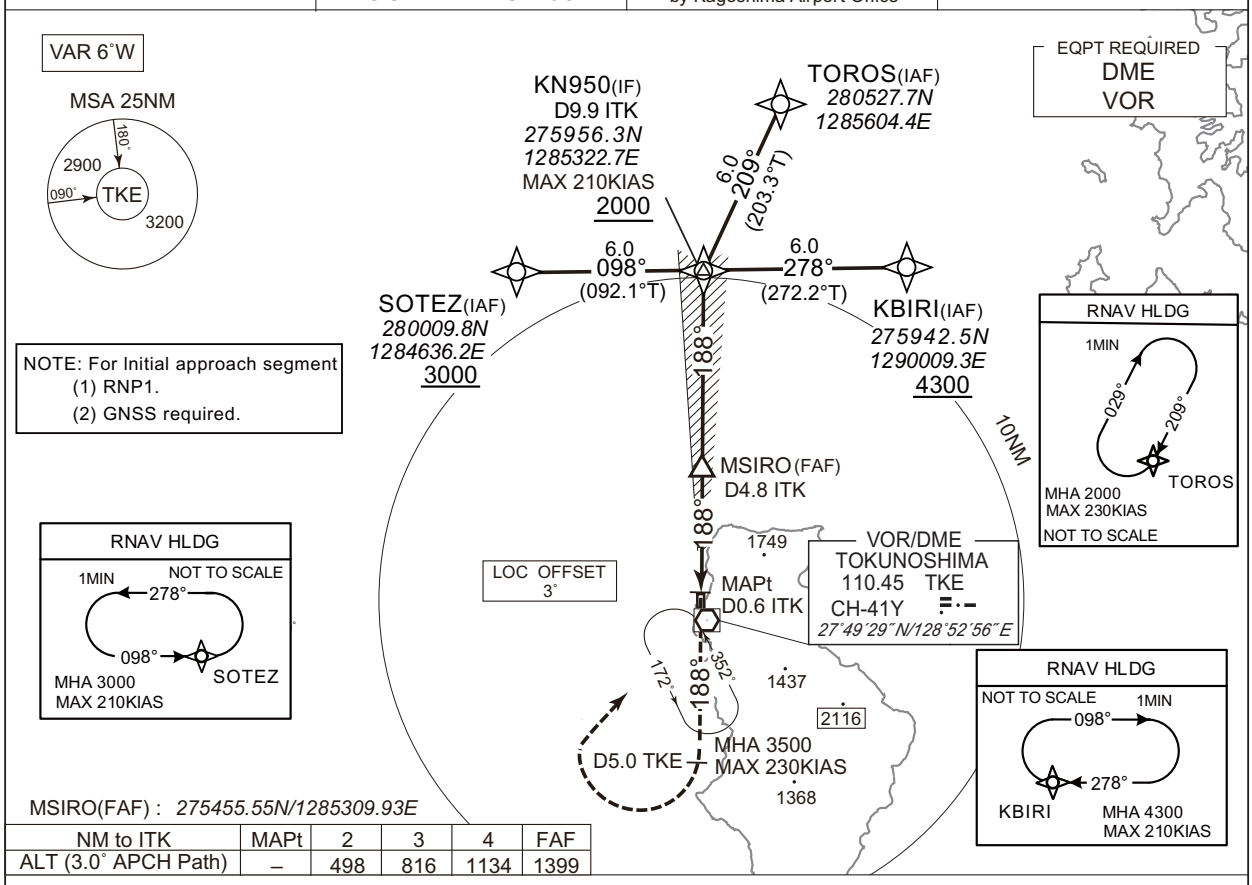
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	HORAI	-	-	-6.1	-	-	-	-	-	RNP1
002	TF	MOHRO	-	345 (339.2)	-6.1	13.6	-	-	-	-	RNP1
003	TF	SOTEZ	-	008 (002.1)	-6.1	9.2	-	+3000	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1→RNP1).

INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMA — LOC Z RWY19

NAHA APP	LOC	TOKUNOSHIMA RADIO	RADAR AVBL
124.95 – 280.1	110.1 ITK LOC – DME CH-38X	122.7 AFIS provided by Kagoshima Airport Office	



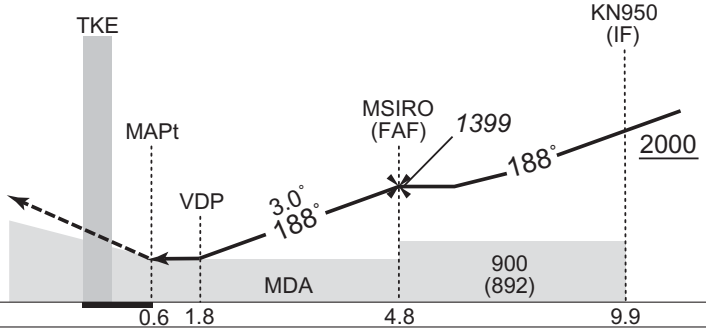
MSIRO(FAF) : *275455.55N/1285309.93E*

NM to ITK	MAPt	2	3	4	FAF
ALT (3.0° APCH Path)	–	498	816	1134	1399

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.



DME to ITK	0.6	1.8	4.8	9.9
NM to THR	0	1.2	4.2	9.2

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		1400	1480 (1472)	3200

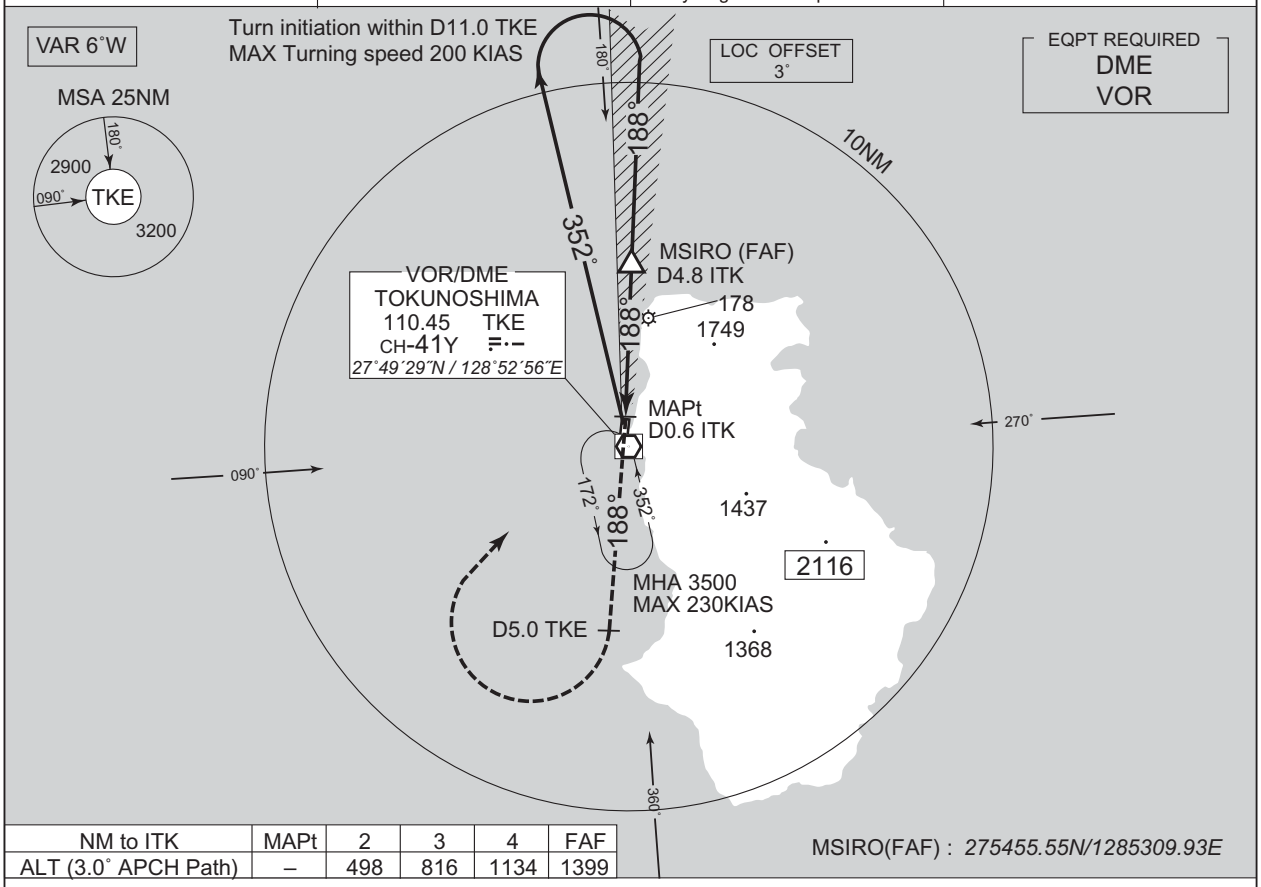
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to WEST side of RWY only.

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMA — LOC Y RWY19

NAHA APP	LOC	TOKUNOSHIMA RADIO	RADAR AVBL
124.95 – 280.1	110.1 ITK ⠭.⎯ LOC – DME CH-38X	122.7 AFIS provided by Kagoshima Airport Office	



NM to ITK	MAPt	2	3	4	FAF
ALT (3.0˚ APCH Path)	–	498	816	1134	1399

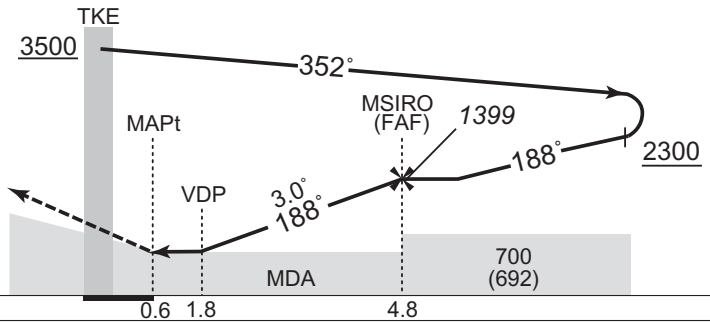
MSIRO(FAF) : *275455.55N/1285309.93E*

Turn initiation within D11.0 TKE

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.



DME to ITK	0.6	1.8	4.8
NM to THR	0	1.2	4.2

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		1400	1480 (1472)	3200

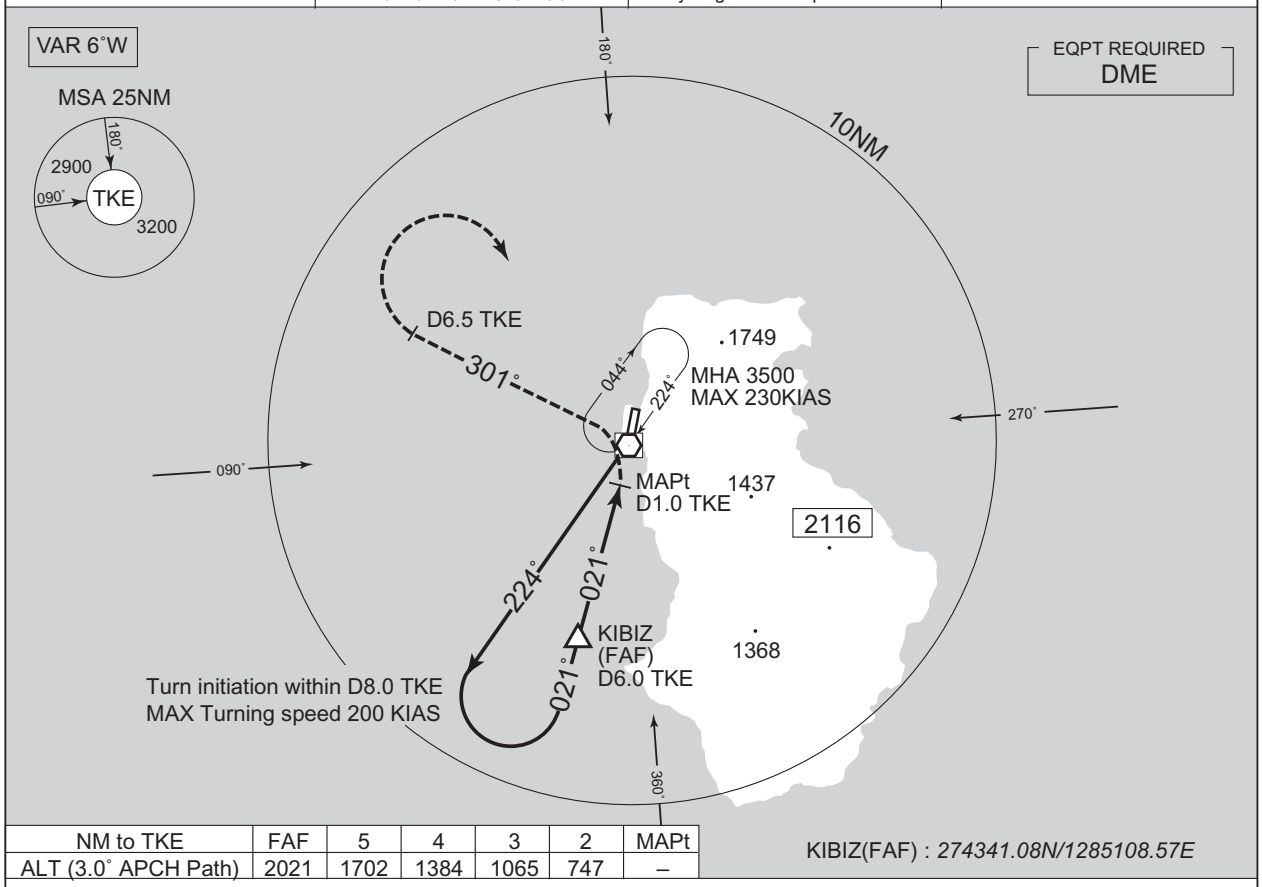
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to WEST side of RWY only.

CHANGE : Description of RADAR Service. Missed APCH PROC.

INSTRUMENT APPROACH CHART

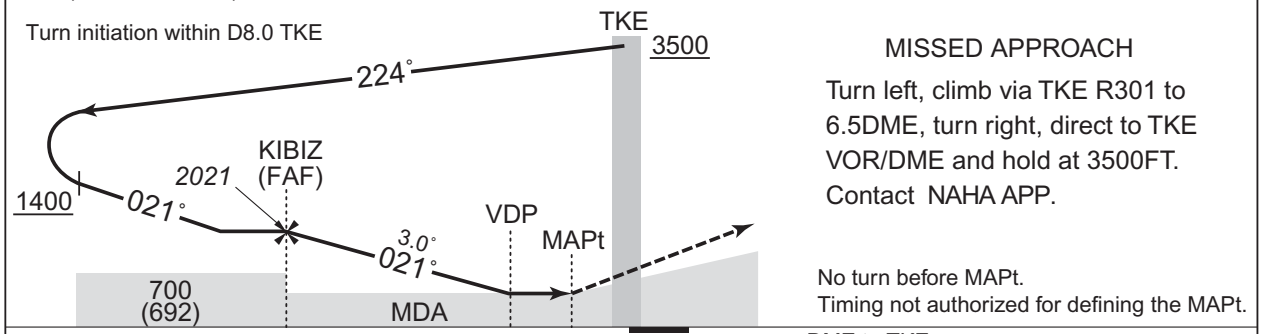
RJKN / TOKUNOSHIMA VOR RWY01

NAHA APP	TOKUNOSHIMA VOR/DME	TOKUNOSHIMA RADIO	RADAR AVBL
124.95 – 280.1	110.45 TKE CH-41Y *27˚49´29˝N / 128˚52´56˝E*	122.7 AFIS provided by Kagoshima Airport Office	



NM to TKE	FAF	5	4	3	2	MAPt
ALT (3.0˚ APCH Path)	2021	1702	1384	1065	747	–

KIBIZ(FAF) : *274341.08N/1285108.57E*



MISSED APPROACH

Turn left, climb via TKE R301 to 6.5DME, turn right, direct to TKE VOR/DME and hold at 3500FT. Contact NAHA APP.

No turn before MAPt.
Timing not authorized for defining the MAPt.

Missed APCH climb gradient MNM 4.0%

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

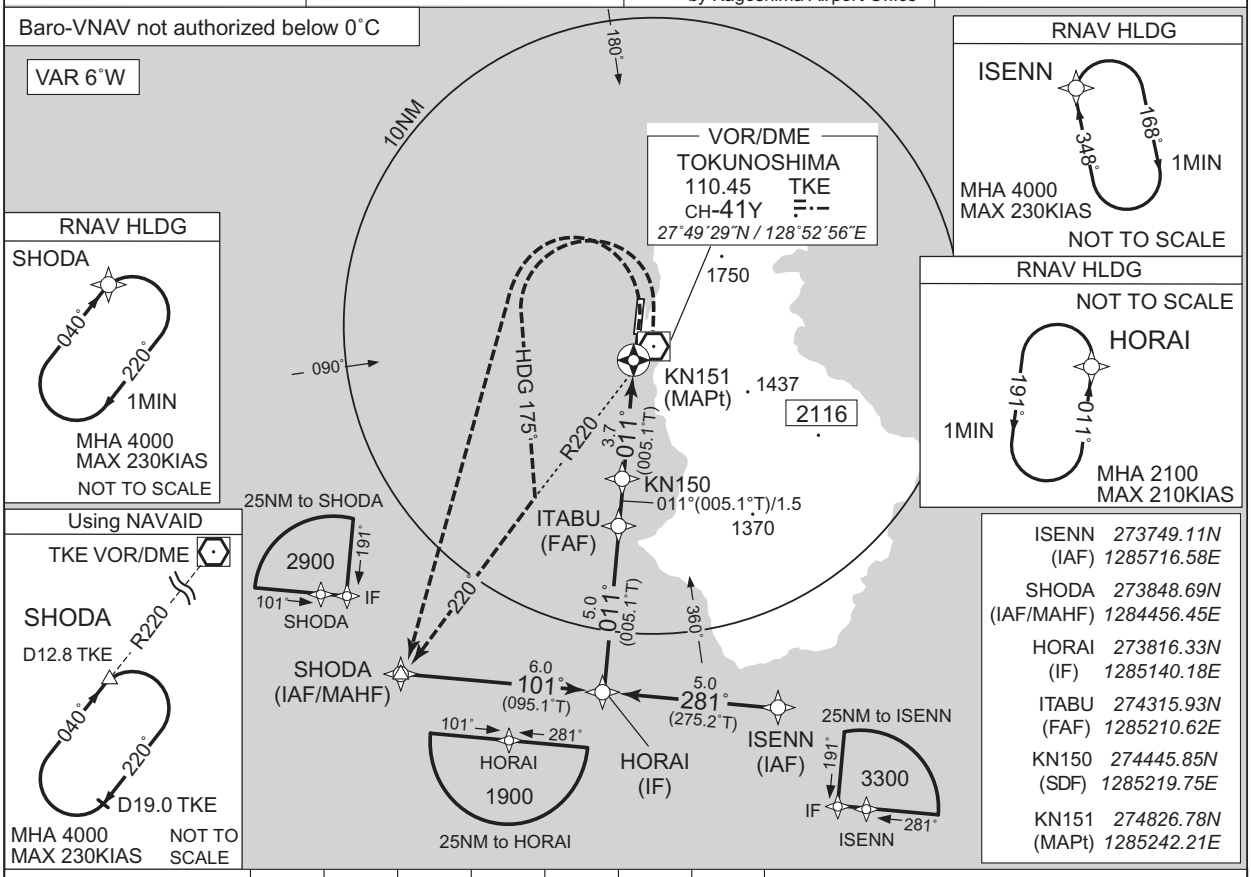
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to WEST side of RWY only.

CHANGE : Description of RADAR Service. Missed APCH PROC.

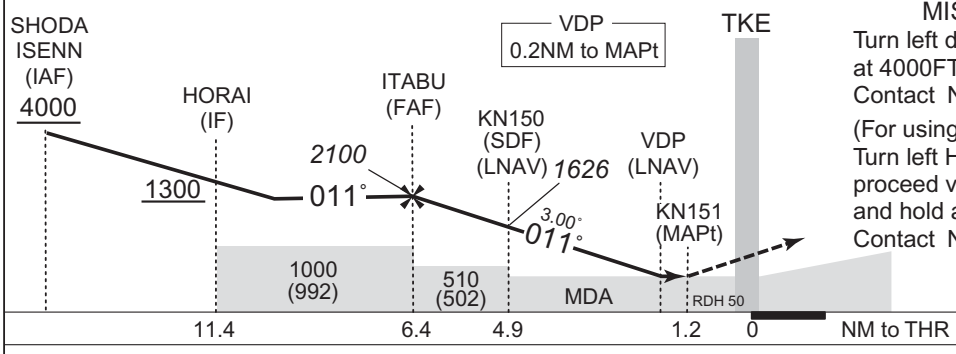
INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMA RNP Z RWY01

NAHA APP	RNP APCH	TOKUNOSHIMA RADIO	RADAR AVBL
124.95 - 280.1		122.7 AFIS provided by Kagoshima Airport Office	



NM to Next Fix	FAF	5	4	3	2	1	MAPt
ALT (3.0˚ APCH Path)	2100	2040	1722	1403	1085	766	–



MISSED APPROACH
Turn left direct to SHODA and hold at 4000FT.
Contact NAHA APP.
(For using VOR/DME)
Turn left HDG 175˚ to intercept and proceed via TKE R220 to SHODA and hold at 4000FT.
Contact NAHA APP.

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.

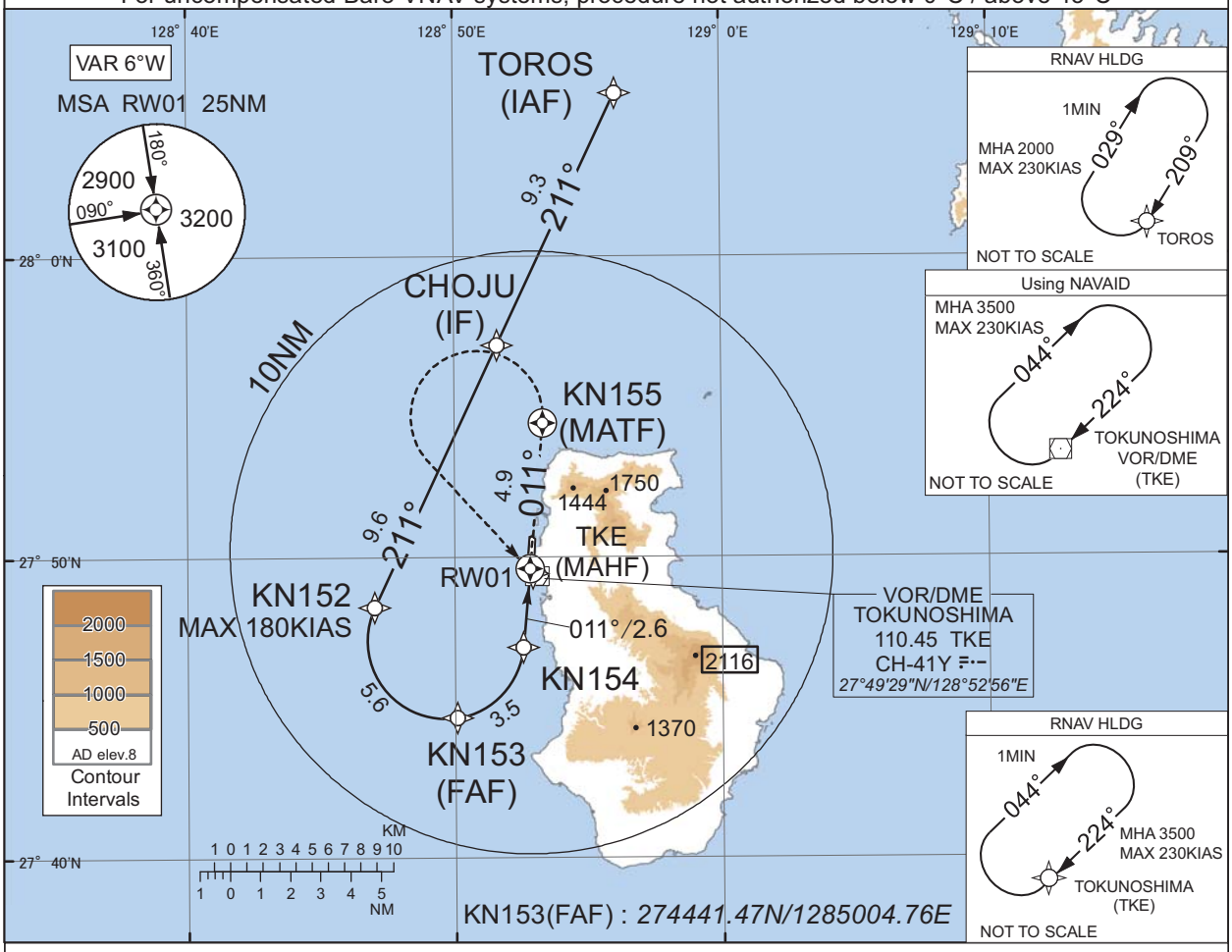
CHANGE : Correction of misdescription(Missed APCH PROC).

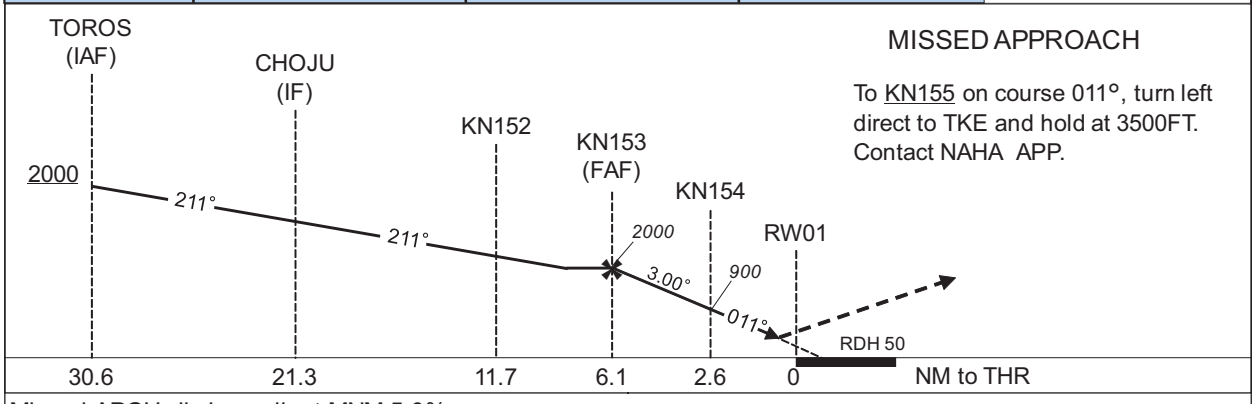
INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMA — RNP Y RWY01(AR)

NAHA APP 124.95 - 280.1	RNP AR RF required.	TOKUNOSHIMA RADIO 122.7 AFIS provided by Kagoshima Airport Office	RADAR AVBL

For uncompensated Baro-VNAV systems, procedure not authorized below 0°C / above 45°C





MISSED APPROACH

To KN155 on course 011°, turn left direct to TKE and hold at 3500FT. Contact NAHA APP.

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

CHANGE : Description of RADAR Service. Missed APCH PROC.

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

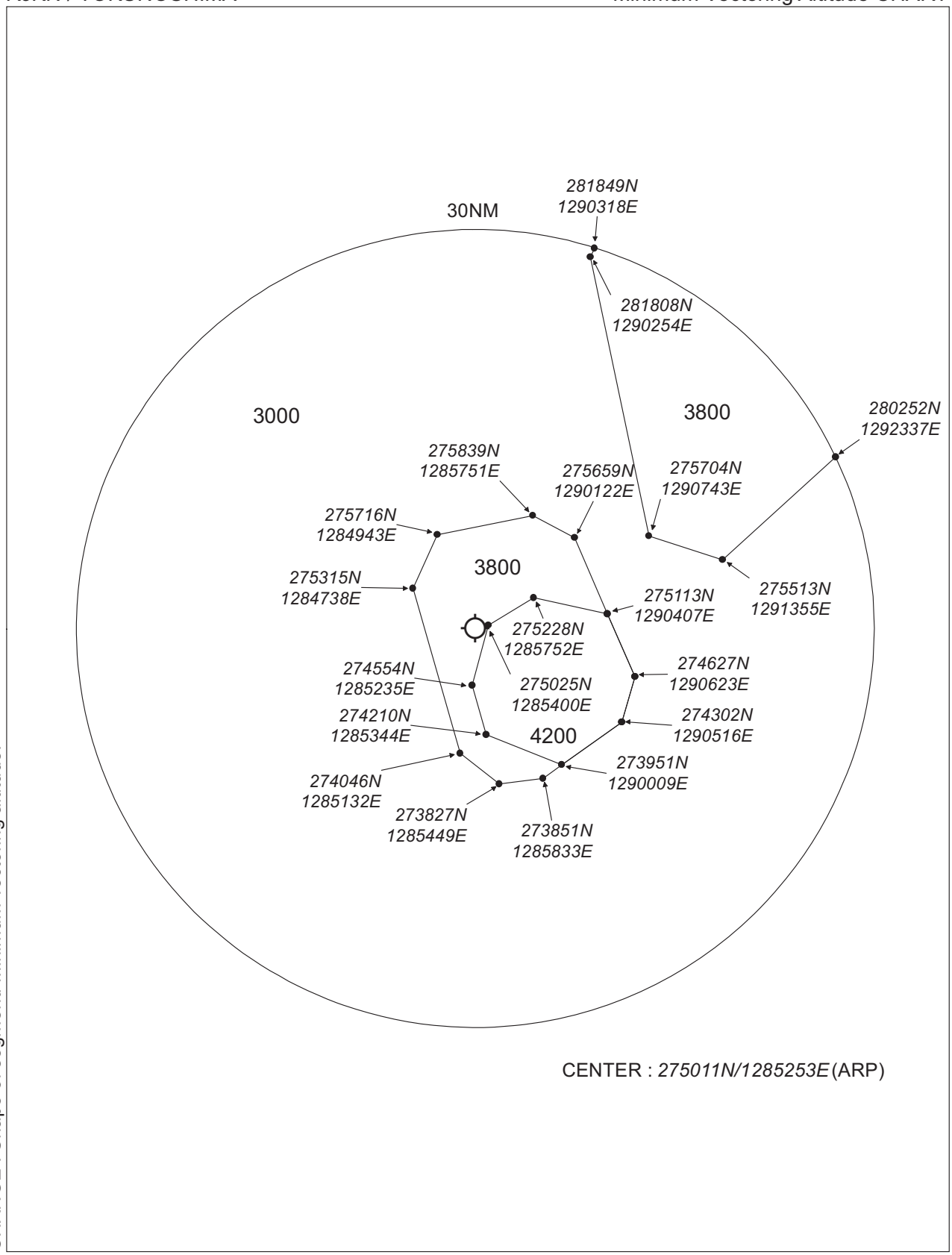
Visual REP

※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).

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



CHANGE : Shape of segment. Minimum vectoring altitude.