

RJKN / TOKUNOSHIMA

AD CHART



STANDARD DEPARTURE CHART -INSTRUMENT

RJKN / TOKUNOSHIMA

SID and TRANSITION

TOKUNOSHIMA FOUR DEPARTURE

RWY01 : Climb via TKE R358 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 028° FM end of RWY01.

Note RWY19 : No turn before DER.

KUNIG TRANSITION

From over TKE VOR/DME, via TKE R207 to KUNIG or ONC VORTAC.

Cross KUNIG or ONC VORTAC at assigned altitude.

MEKAX TRANSITION

From over TKE VOR/DME, via TKE R023 to 15.0DME, via ONC R026 to MEKAX.

Cross MEKAX at or above 11000FT.

KASARI TRANSITION

From over TKE VOR/DME, via TKE R096 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.

STANDARD DEPARTURE CHART -INSTRUMENT

RJKN / TOKUNOSHIMA

SID and TRANSITION



STANDARD DEPARTURE CHART -INSTRUMENT

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RNAV SID

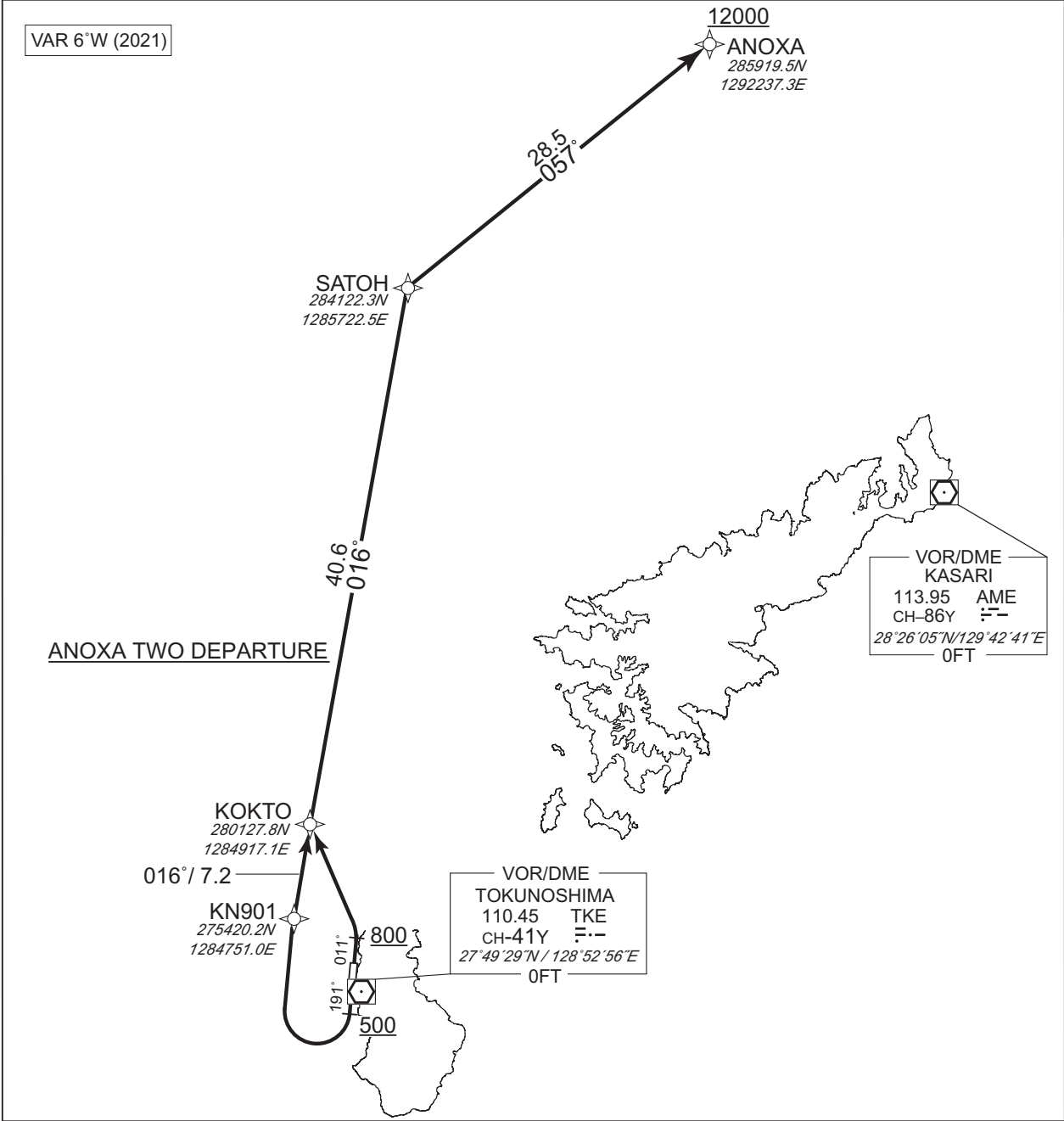
ANOXA TWO DEPARTURE	Basic RNP1
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Note GNSS required.

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

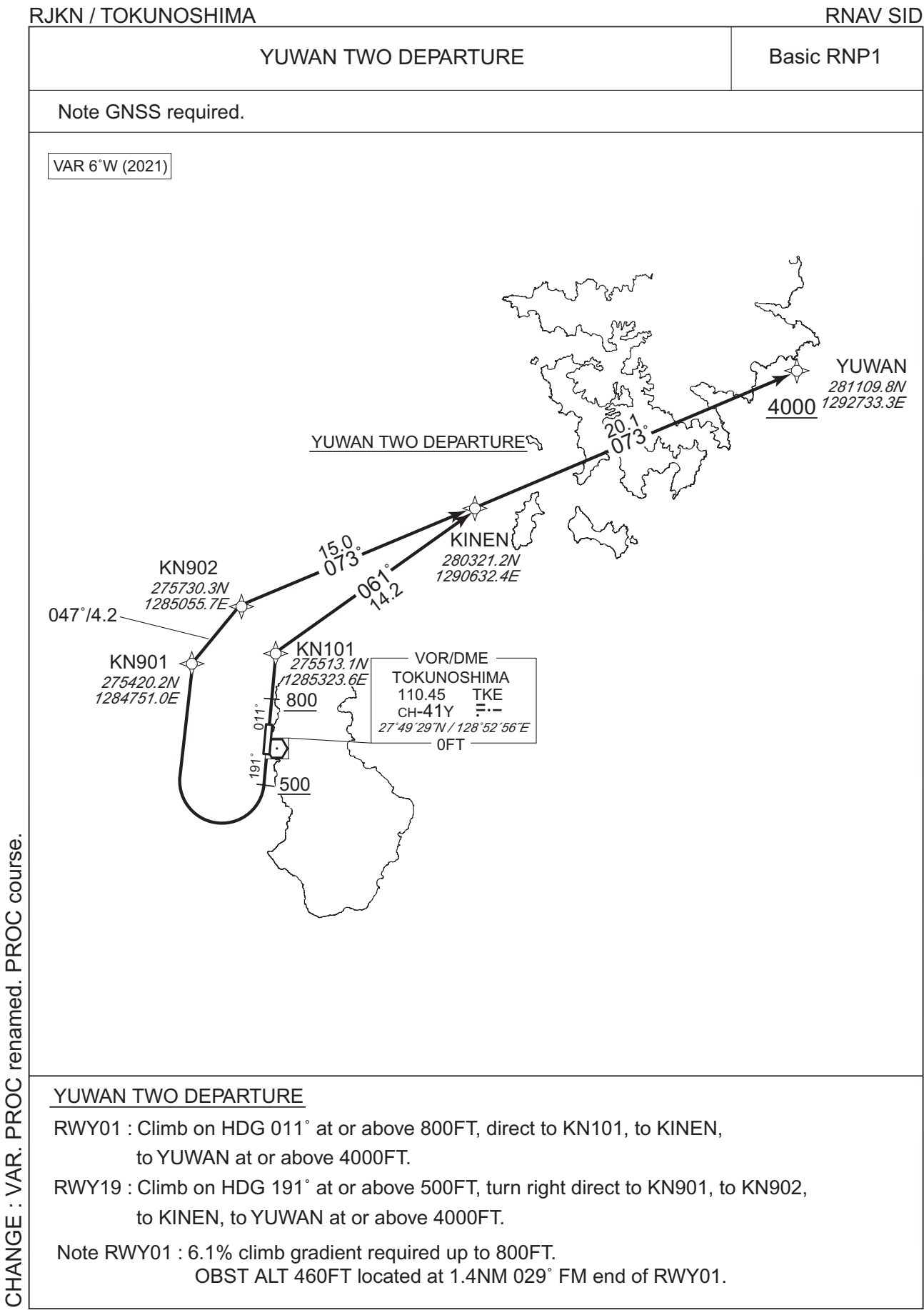
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	011 (005.1)	-6.1	—	—	+800	—	—	Basic RNP1
002	DF	KOKTO	—	—	-6.1	—	L	—	—	—	Basic RNP1
003	TF	SATOH	—	016 (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



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

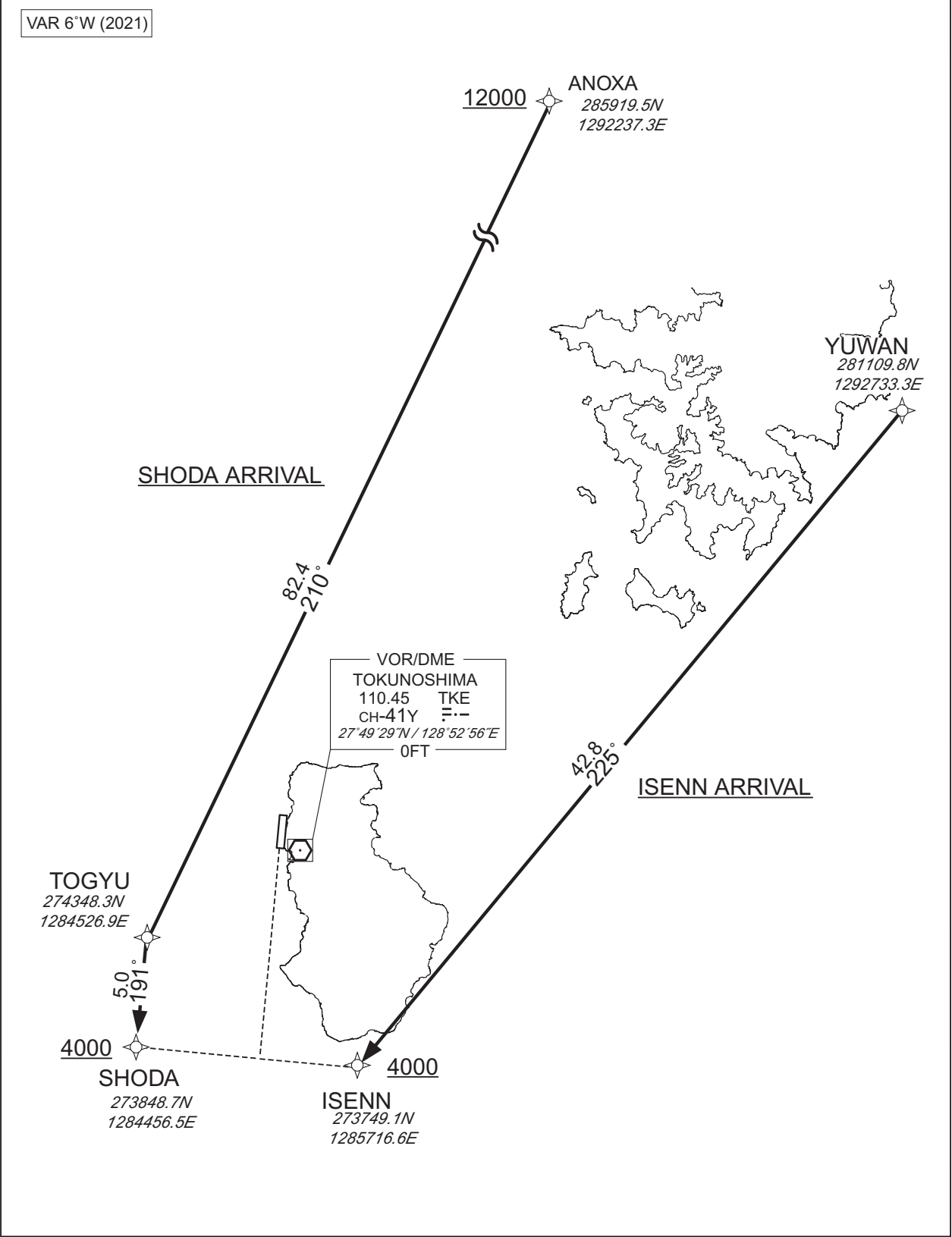
RNAV STAR RWY01

SHODA ARRIVAL ISENN ARRIVAL	Basic RNP1
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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.

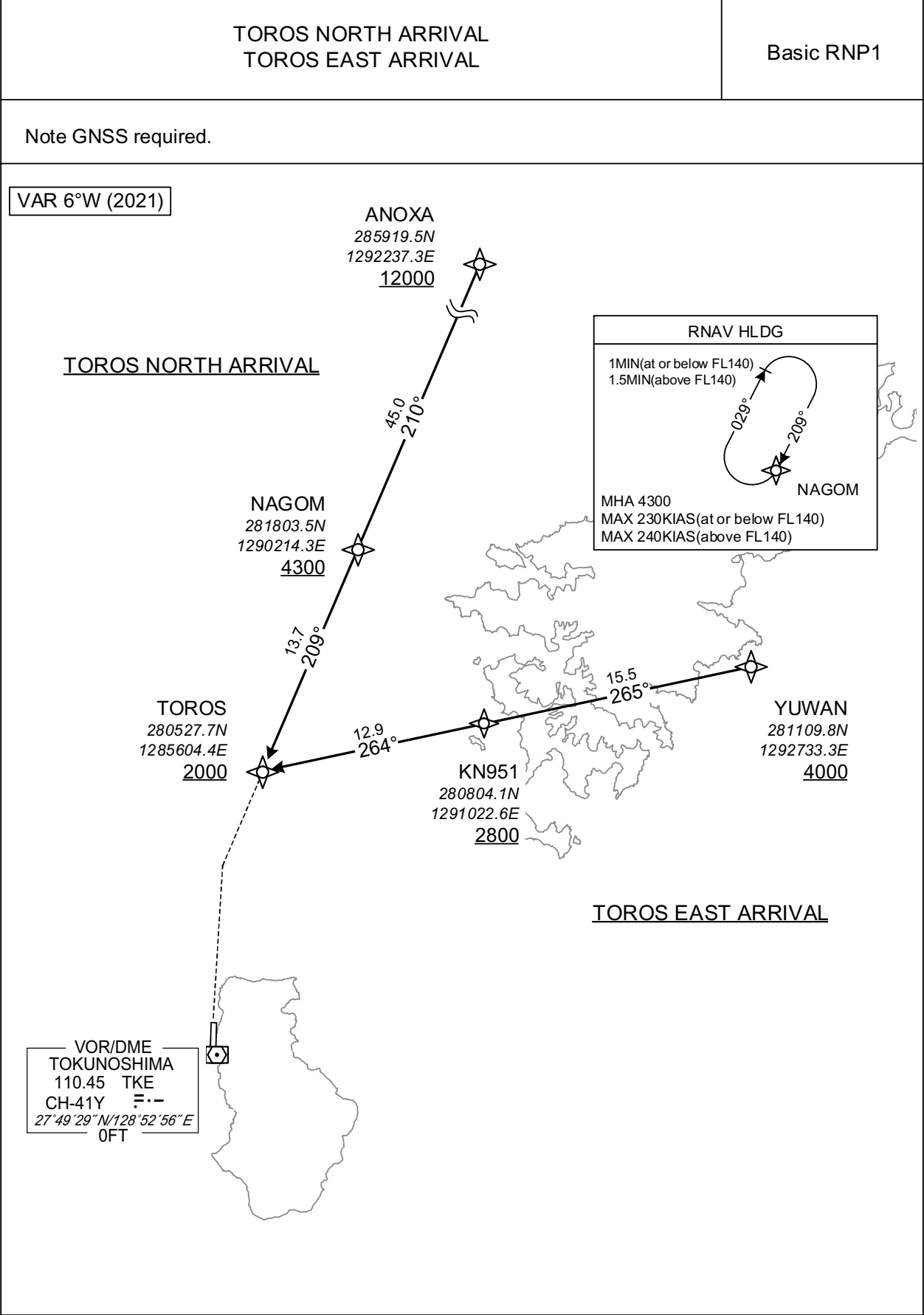
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	YUWAN	—	—	-6.1	—	—	—	—	—	Basic RNP1
002	TF	ISENN	—	225 (218.9)	-6.1	42.8	—	+4000	—	—	Basic RNP1

CHANGE : VAR. PROC course.

STANDARD ARRIVAL CHART - INSTRUMENT

RJKN / TOKUNOSHIMA

RNAV STAR RWY19



STANDARD ARRIVAL CHART - INSTRUMENT

RJKN / TOKUNOSHIMA

RNAV STAR RWY19

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	-	-	-6.1	-	-	+12000	-	-	Basic RNP1
002	TF	NAGOM	-	210 (203.5)	-6.1	45.0	-	+4300	-	-	Basic RNP1
003	TF	TOROS	-	209 (203.4)	-6.1	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	-	-	-6.1	-	-	+4000	-	-	Basic RNP1
002	TF	KN951	-	265 (258.5)	-6.1	15.5	-	+2800	-	-	Basic RNP1
003	TF	TOROS	-	264 (258.4)	-6.1	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	209 (203.4)	-6.1	1.0(-14000) 1.5(+14001)	R	4300	—	-230(-14000) -240(+14001)	Basic RNP1

CHANGE : VAR. PROC course.

STANDARD ARRIVAL CHART - INSTRUMENT

RJKN / TOKUNOSHIMA RNAV STAR RWY19



SOTEZ ARRIVAL

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

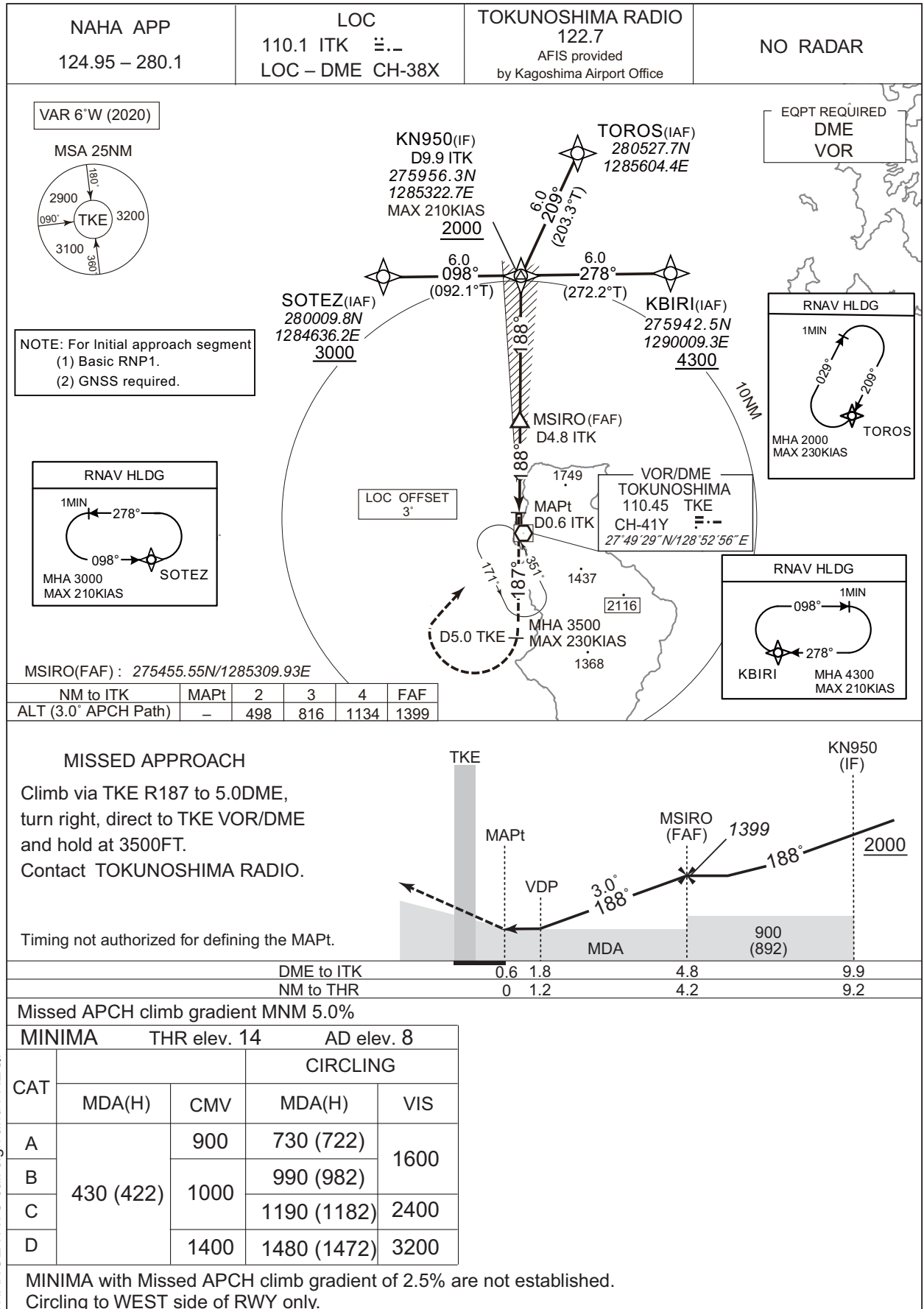
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	HORAI	-	-	-6.1	-	-	-	-	-	Basic RNP1
002	TF	MOHRO	-	345 (339.2)	-6.1	13.6	-	-	-	-	Basic RNP1
003	TF	SOTEZ	-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

CHANGE : New PROC.

INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMA

LOC Z RWY19

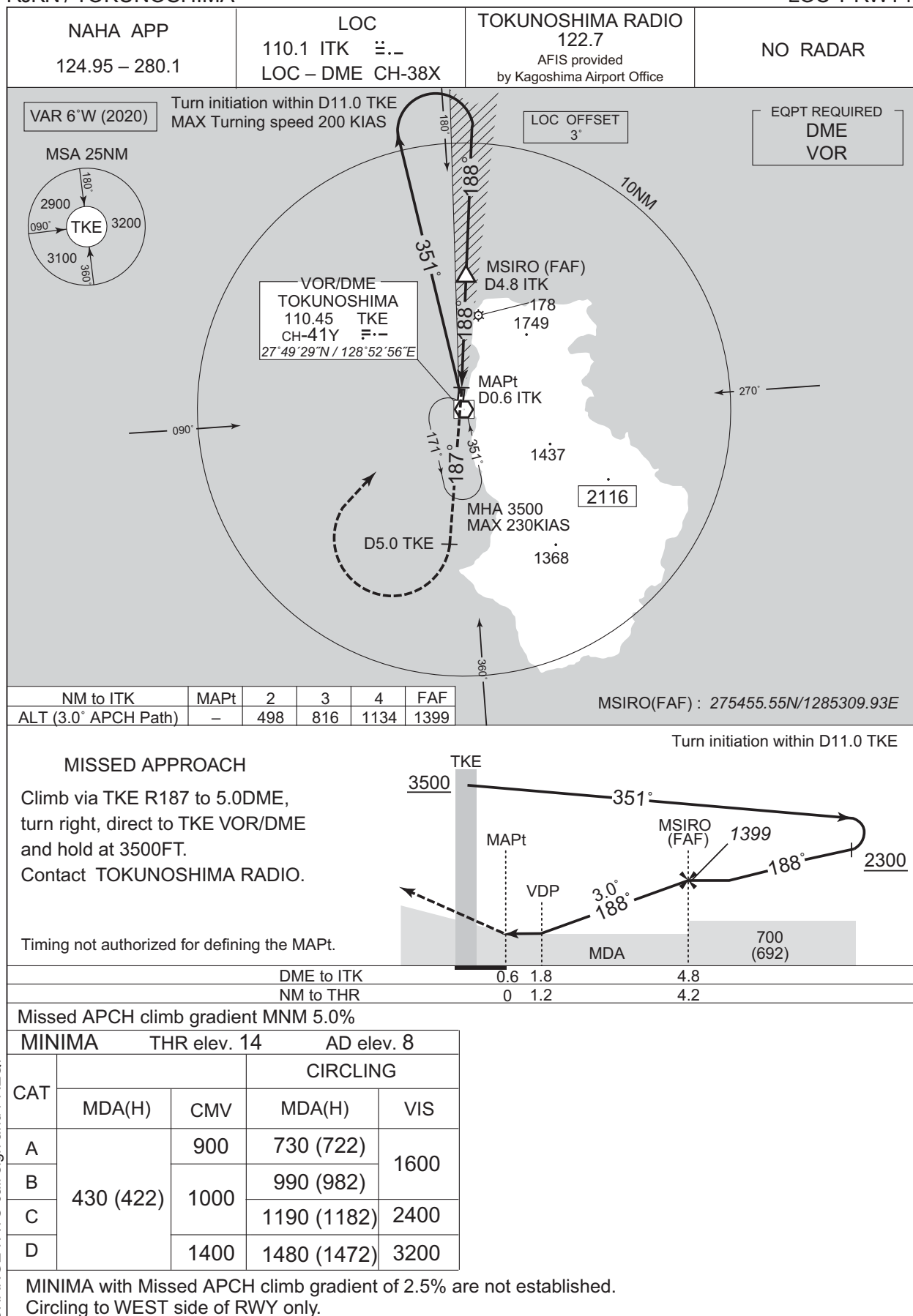


CHANGE : ATC call sign and FREQ.

INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMA

LOC Y RWY19

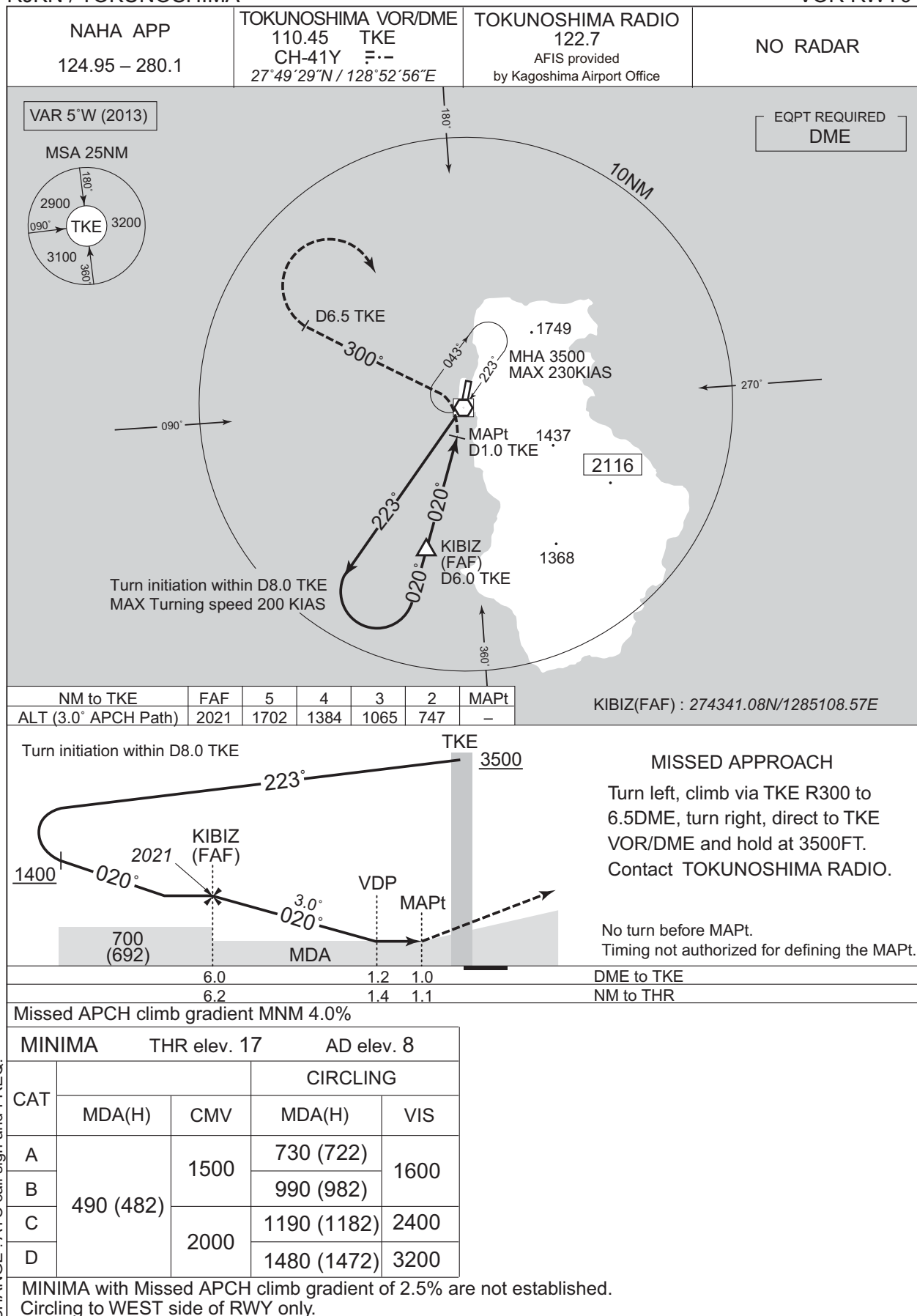


CHANGE : ATC call sign and FREQ.

INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMA

VOR RWY01



INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMA

RNAV(GNSS) RWY01

NAHA APP
124.95 - 280.1

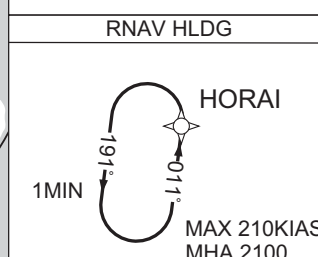
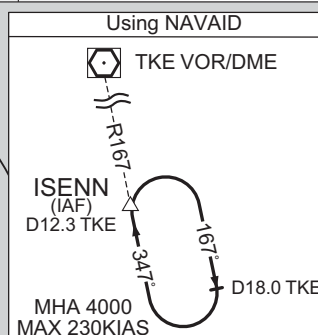
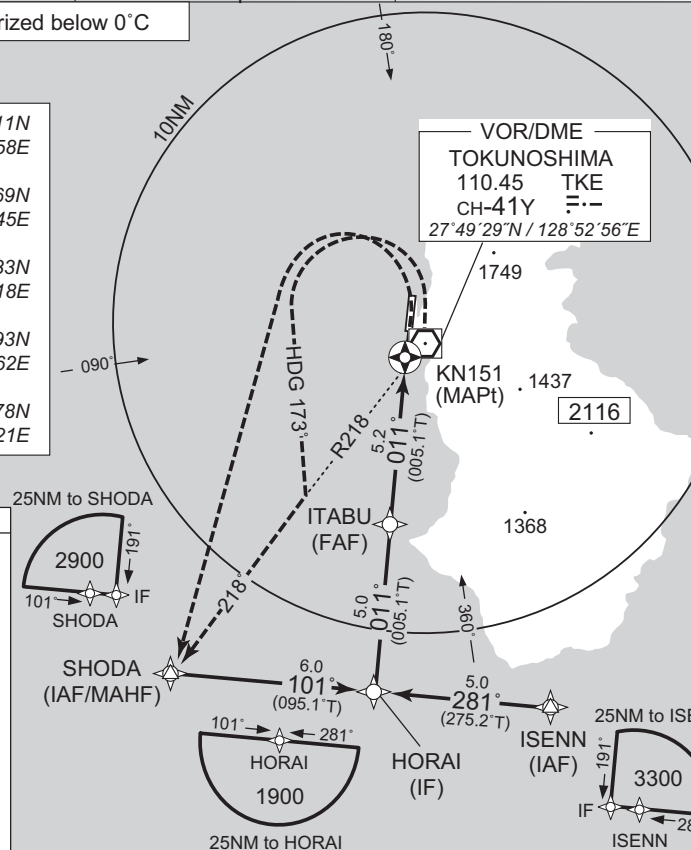
1. DME/DME RNP0.3 not authorized.
2. RNP 0.3 required.
3. GNSS required.

TOKUNOSHIMA RADIO
122.7
AFIS provided
by Kagoshima Airport Office

NO RADAR

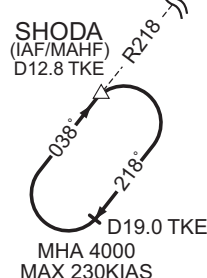
Baro-VNAV not authorized below 0°C

VAR 6°W (2021)

ISENN 273749.11N
(IAF) 1285716.58ESHODA 273848.69N
(IAF/MAHF) 1284456.45EHORAI 273816.33N
(IF) 1285140.18EITABU 274315.93N
(FAF) 1285210.62EKN151 274826.78N
(MAPt) 1285242.21E

Using NAVAID

TKE VOR/DME



25NM to SHODA

191°

101°

SHODA

SHODA (IAF/MAHF)

D12.8 TKE

MHA 4000

MAX 230KIAS

D19.0 TKE

MHA 4000

MAX 230KIAS

D19.0 TKE

MHA 4000

MAX 230KIAS

D19.0 TKE

MHA 4000

MAX 230KIAS

D19.0 TKE

MHA 4000

MAX 230KIAS

D19.0 TKE

MHA 4000

MAX 230KIAS

D19.0 TKE

MHA 4000

MAX 230KIAS

D19.0 TKE

MHA 4000

MAX 230KIAS

D19.0 TKE

MHA 4000

MAX 230KIAS

D19.0 TKE

MHA 4000

MAX 230KIAS

D19.0 TKE

MHA 4000

MAX 230KIAS

D19.0 TKE

MHA 4000

MAX 230KIAS

D19.0 TKE

MHA 4000

MAX 230KIAS

NM to Next Fix

ALT (3.0° APCH Path)

FAF

5

4

3

2

1

MAPt

2100

2040

1722

1403

1085

766

-

SHODA
ISENN
(IAF)
4000HORAI
(IF)ITABU
(FAF)VDP
0.2NM to MAPt

TKE

SDF
(LNAV) 1626VDP
(LNAV)KN151
(MAPt)

3.00°

011°

MDA

RDH 50

MISSED APPROACH

Turn left direct to SHODA and hold at 4000FT.
Contact TOKUNOSHIMA RADIO.
(For using VOR/DME)
Turn left HDG 173° to intercept and proceed via TKE R218 to SHODA and hold at 4000FT.
Contact TOKUNOSHIMA RADIO.

Missed APCH climb gradient MNM 5.0%

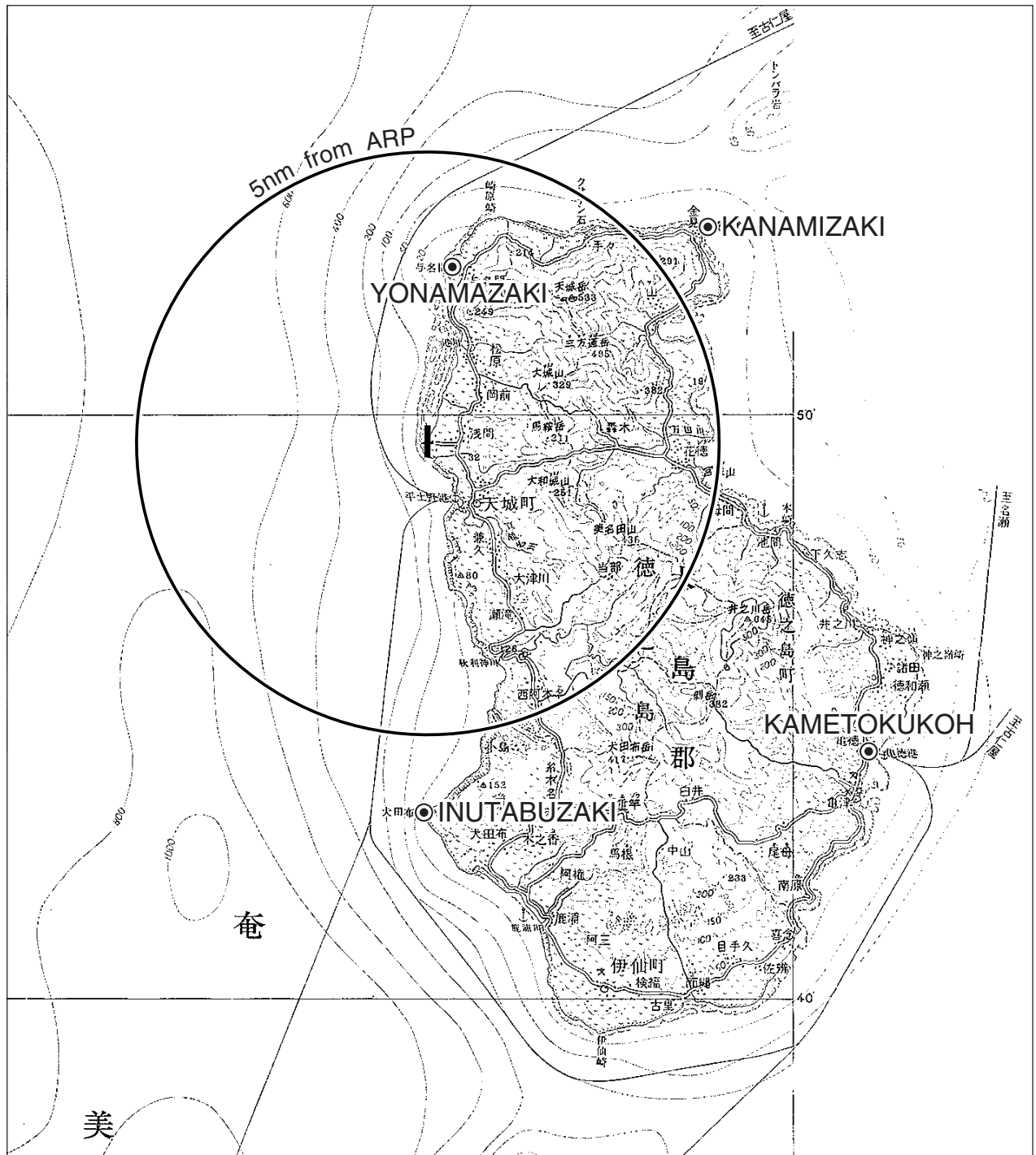
MINIMA		THR elev. 17		AD elev. 8		
CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	CMV	MDA(H)	CMV	MDA(H)	VIS
A	490 (473)	1500	490 (482)	1500	730 (722)	1600
B					990 (982)	
C		2000		2000	1190 (1182)	2400
D					1480 (1472)	3200

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

CHANGE : VAR, ATC call sign and FREQ. PROC course, HLDG pattern(HORAI) established. Description of VDP.

RJKN / TOKUNOSHIMA

Visual REP



Call sign	BRG / DIST from ARP	Remarks
与名間崎 Yonamazaki	013°/3.0NM	灯台 Lighthouse
金見崎 Kanamizaki	057°/6.0NM	灯台 Lighthouse
亀徳港 Kametokukoh	129°/9.3NM	漁港 Harbor
犬田布崎 Inutabuzaki	184°/6.4NM	白い大きな慰霊碑 Big white monument

RJKN / TOKUNOSHIMA

Minimum Vectoring Altitude CHART

