

AD CHART

TOKUNOSHIMA AP

TRUE NORTH

417m

480m

420m

397m

OVERRUN AREA EDGE LGT

RWY THR ID LGT

APRON FLOOD LGT

PAPI Angle 3.0°
MEHT 18.5m (61ft)

PAPI Angle 3.0°
MEHT 18.5m (61ft)

T-1

T-2

T-3

WDI

P-1

P-2

★ ABN

SALS

RAI

VOR / DME (TKE)

LONGITUDINAL PROFILE OF RWY

RWY 01

17ft
(5.05m)

-0.7%

8ft
(2.32m)

LEVEL

8ft
(2.32m)

0.22%

9ft
(2.87m)

LEVEL

9ft
(2.87m)

0.1%

14ft
(4.33m)

RWY 19

0m

390m

1040m

1290m

1790m

2000m

REMARKS : RWY GROOVING		30mX2000m
WIDTH AND STRENGTH OF TWY		
T-1	23m	PCN 52 / F / C / X / T
T-2	23m	PCN 52 / F / C / X / T
T-3	18m	PCN 12 / F / C / Y / T
STRENGTH OF APRON		PCN 52 / R / B / X / T
		(PCN 12 / F / C / Y / 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 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

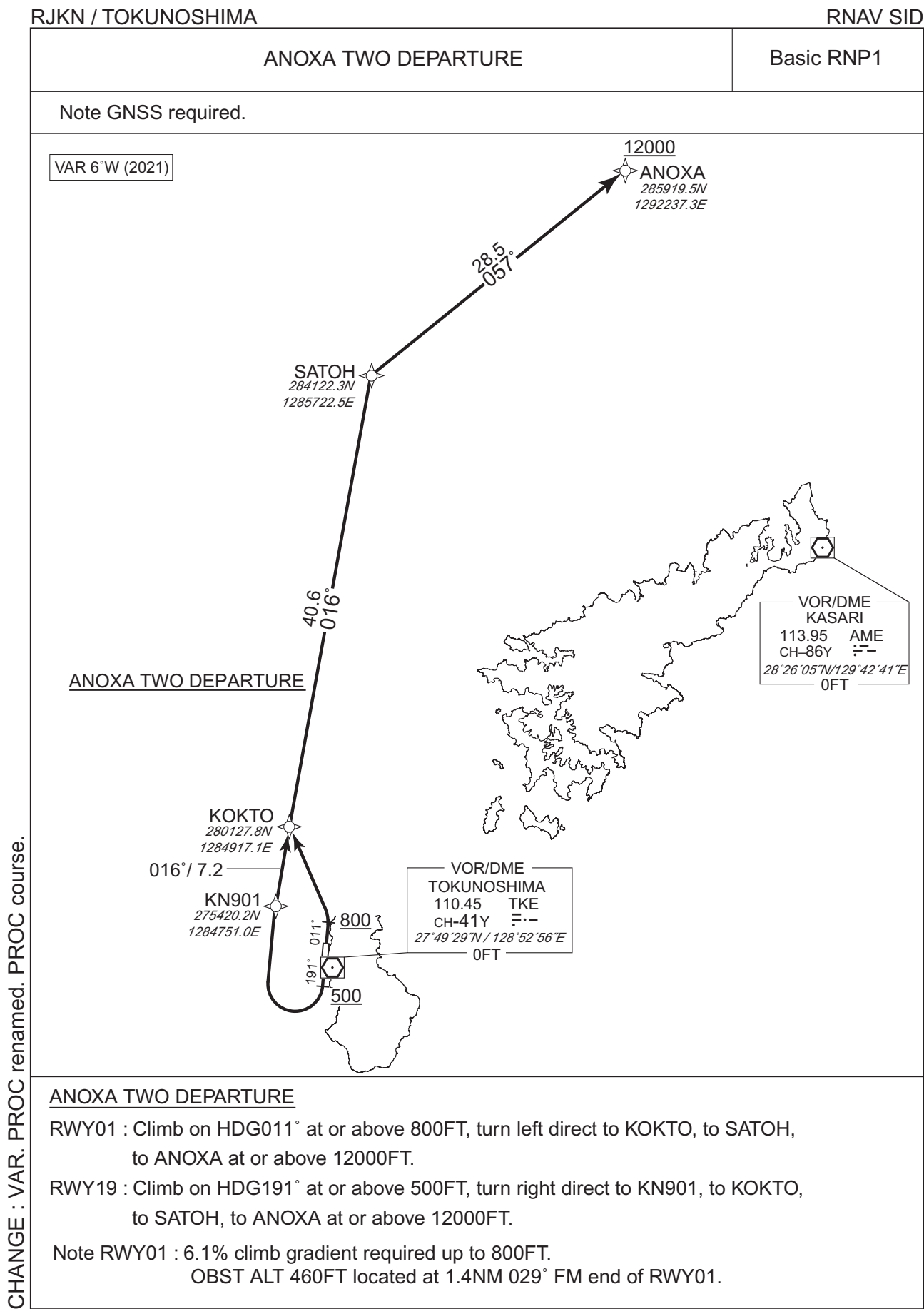
RJKN / TOKUNOSHIMA

SID and TRANSITION

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



STANDARD DEPARTURE CHART -INSTRUMENT



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

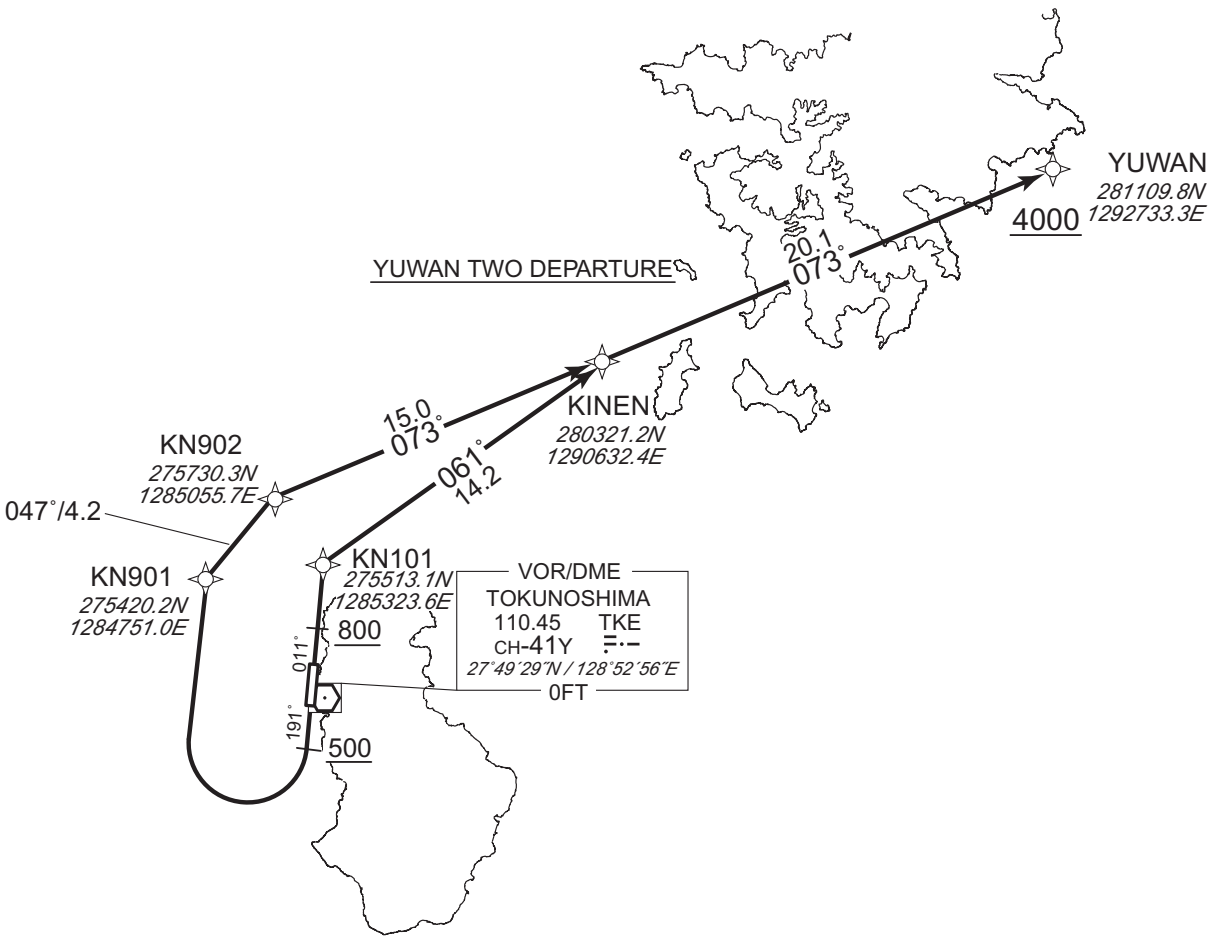
RNAV SID

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

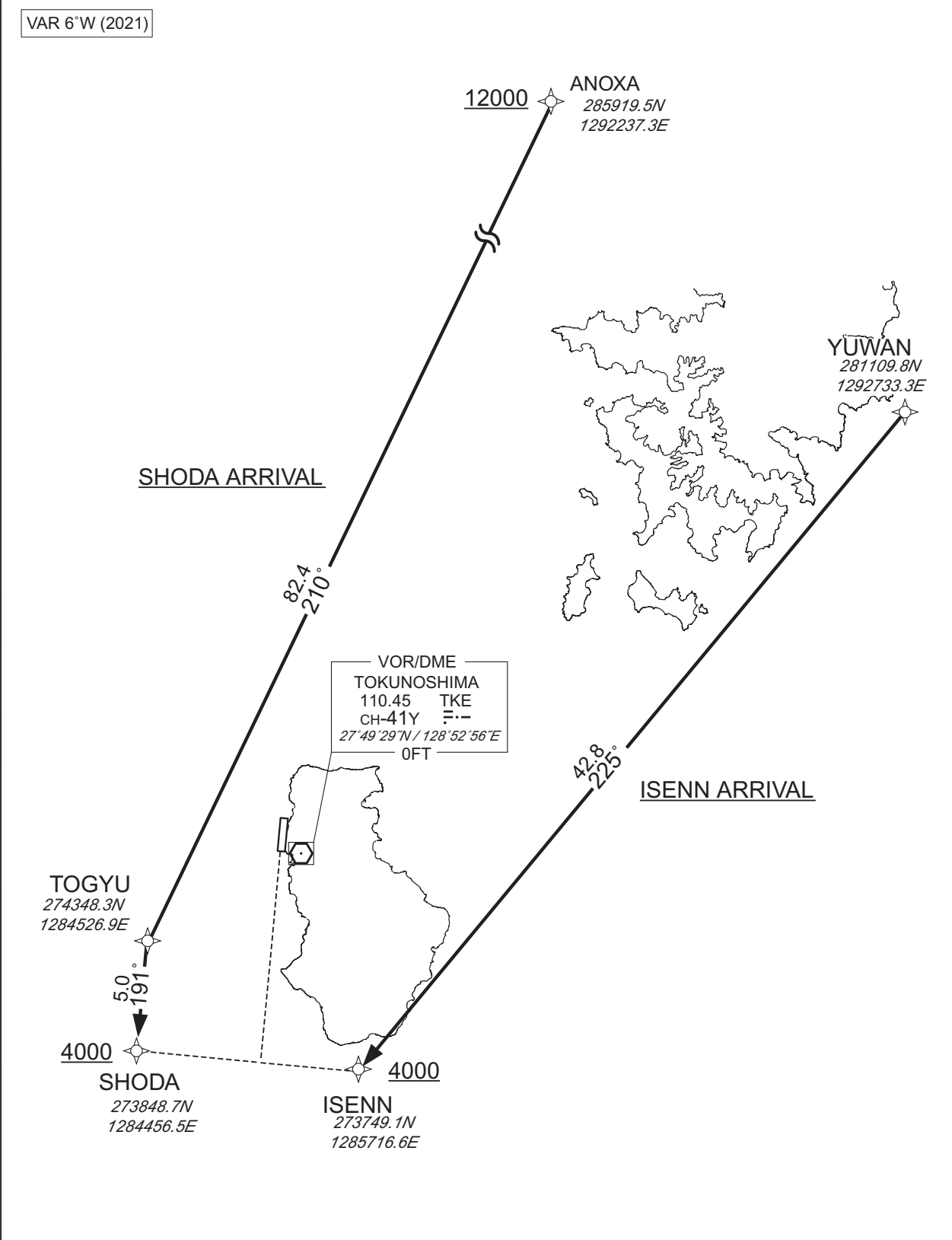
RNAV STAR RWY01

SHODA ARRIVAL ISENN ARRIVAL	Basic RNP1
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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.

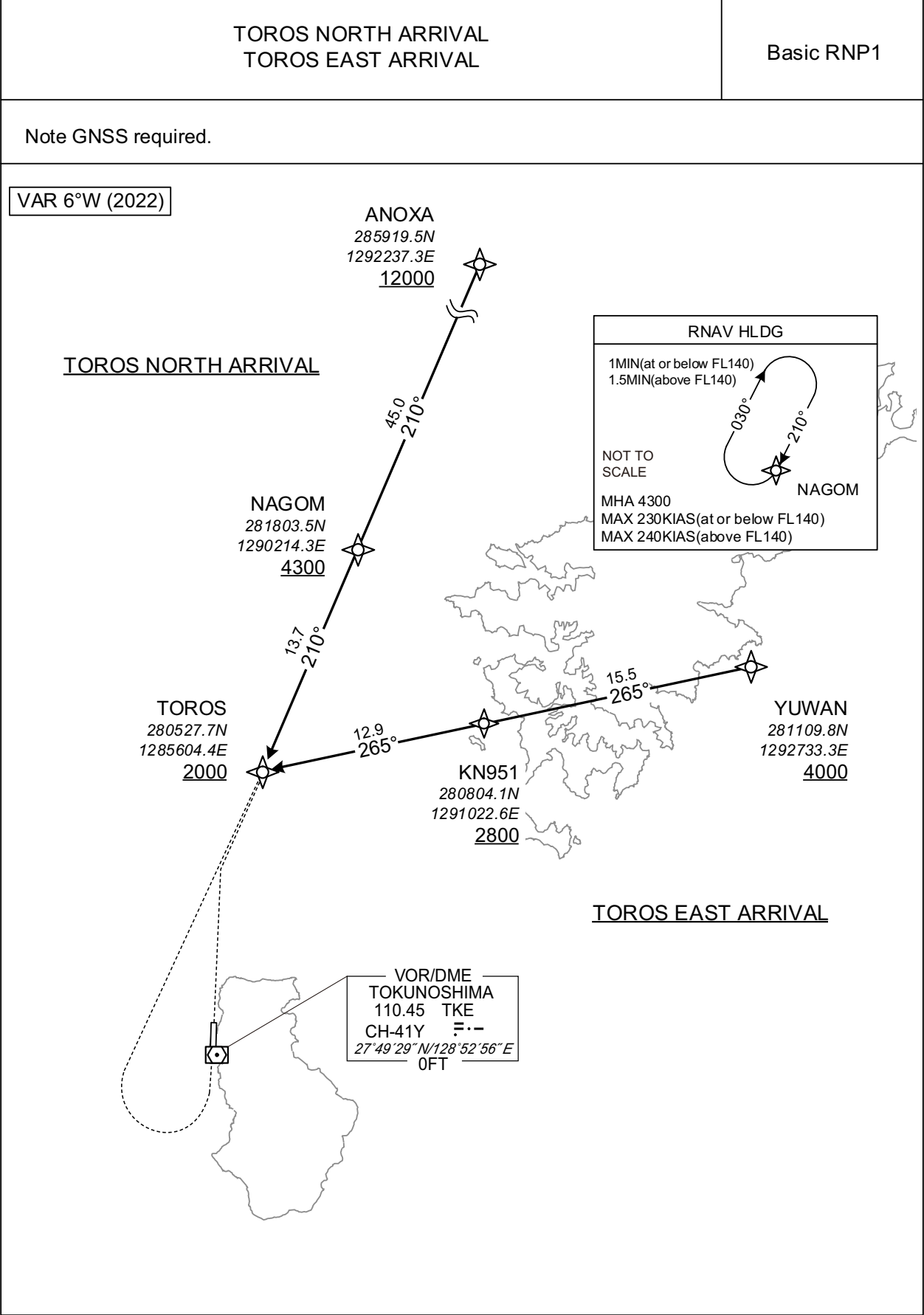
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	YUWAN	—	—	-6.1	—	—	—	—	—	Basic RNP1
002	TF	ISENN	—	225 (218.9)	-6.1	42.8	—	+4000	—	—	Basic RNP1

CHANGE : VAR. PROC course.

STANDARD ARRIVAL CHART - INSTRUMENT

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RNAV STAR



STANDARD ARRIVAL CHART - INSTRUMENT

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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

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LOC Z RWY19

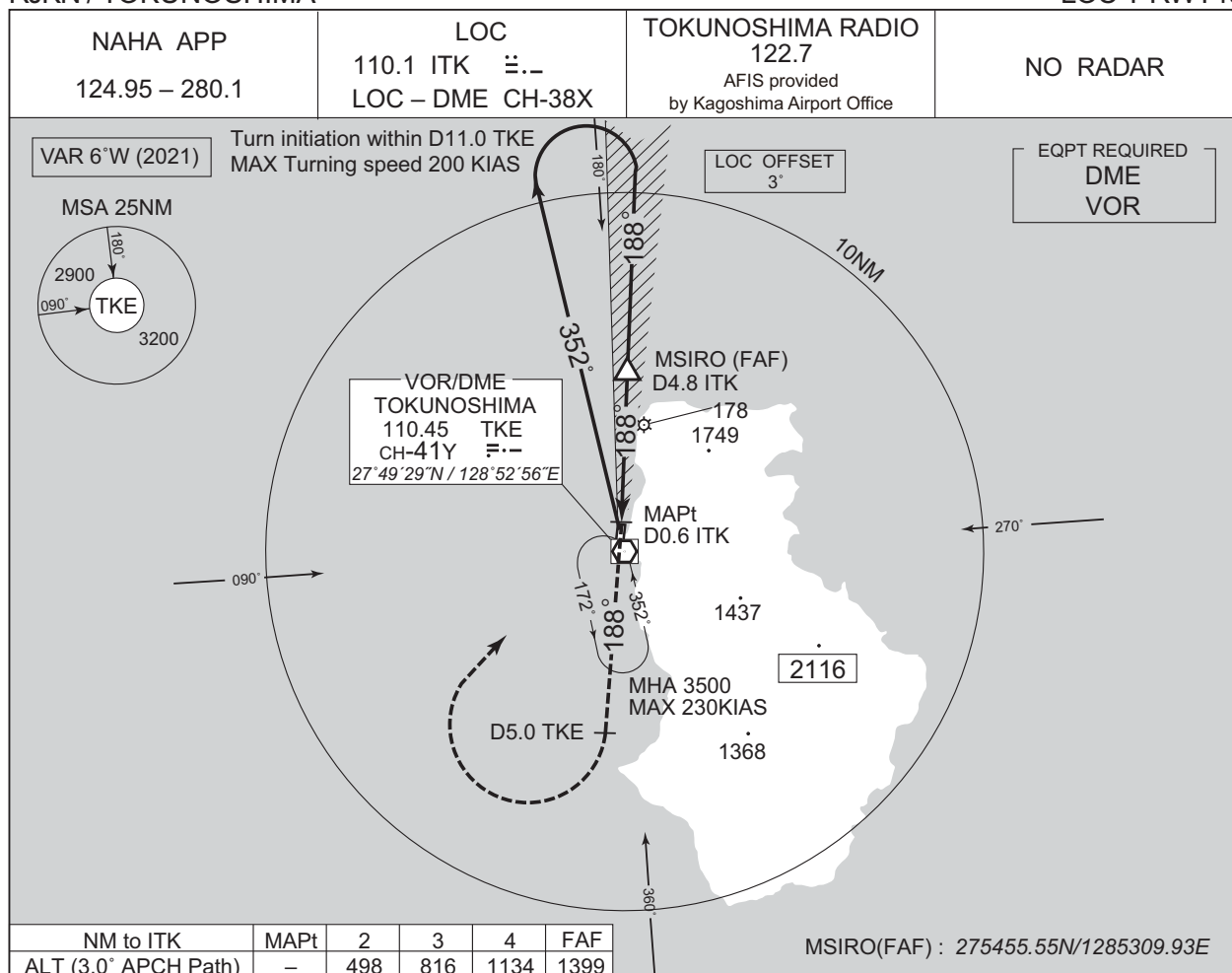


CHANGE : VAR. MSA BTN 180° and 270°. MISSED APPROACH course. HLDG course(TKE).

INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMA

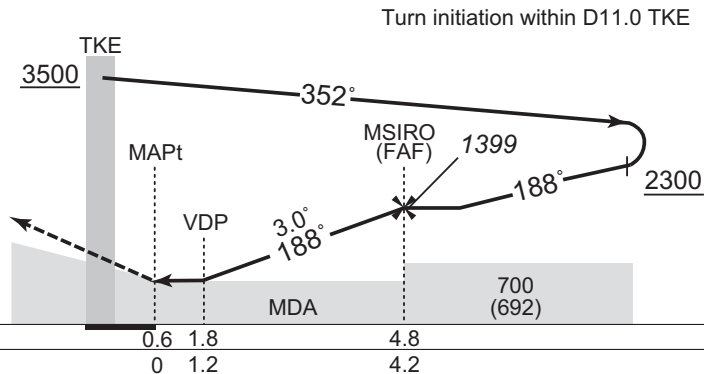
LOC Y RWY19



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.



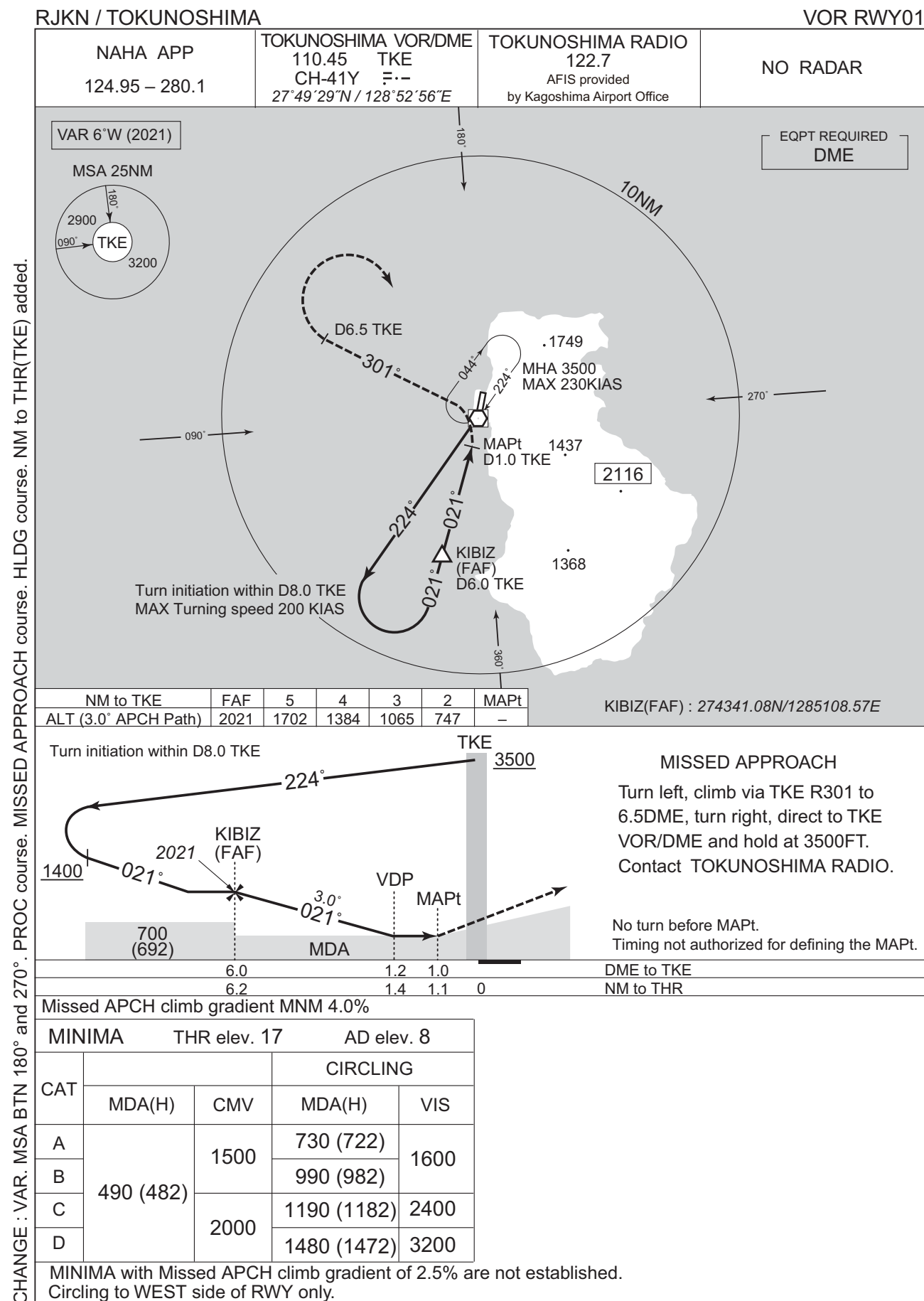
Missed APCH climb gradient MNM 5.0%

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.

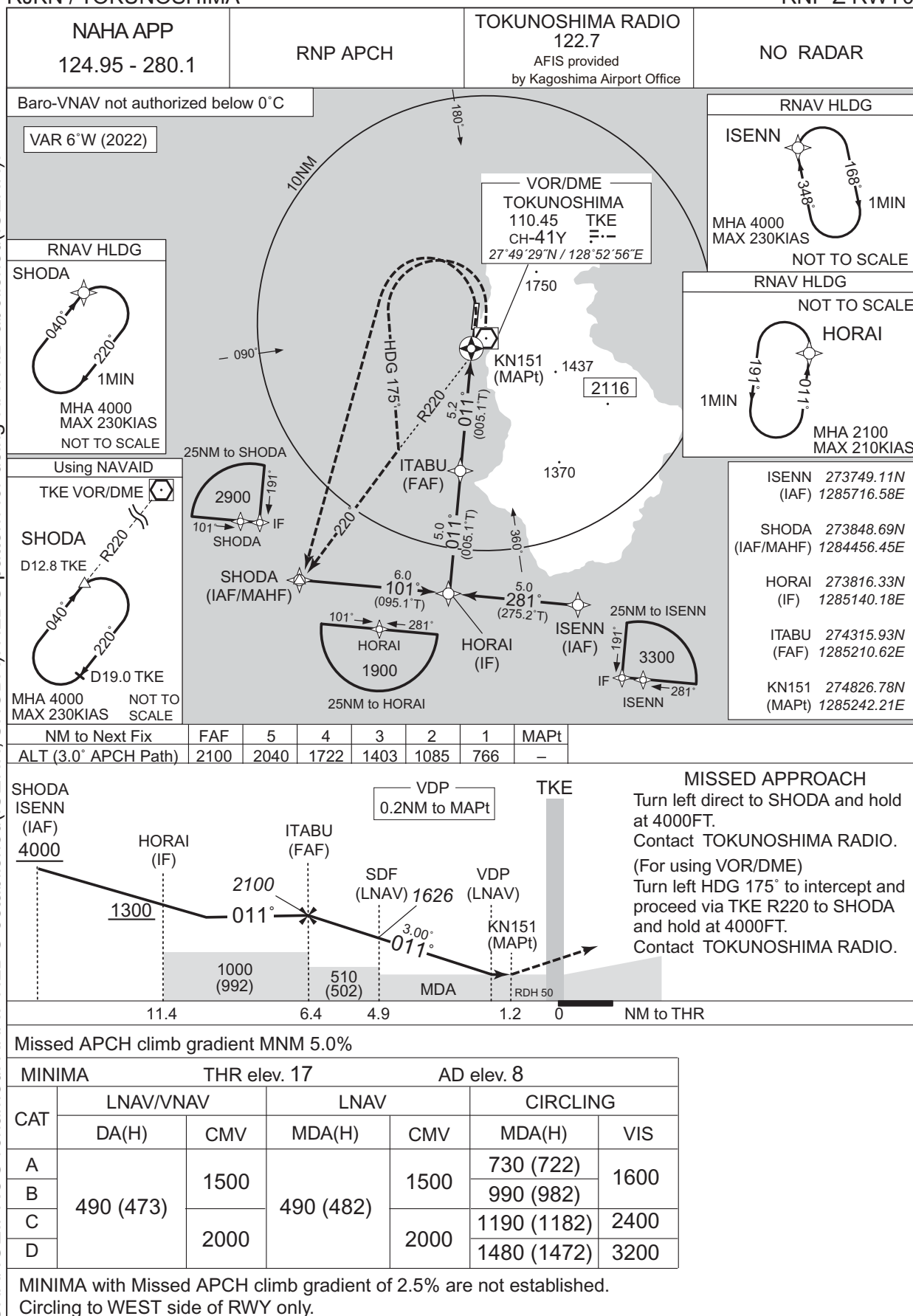
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMA

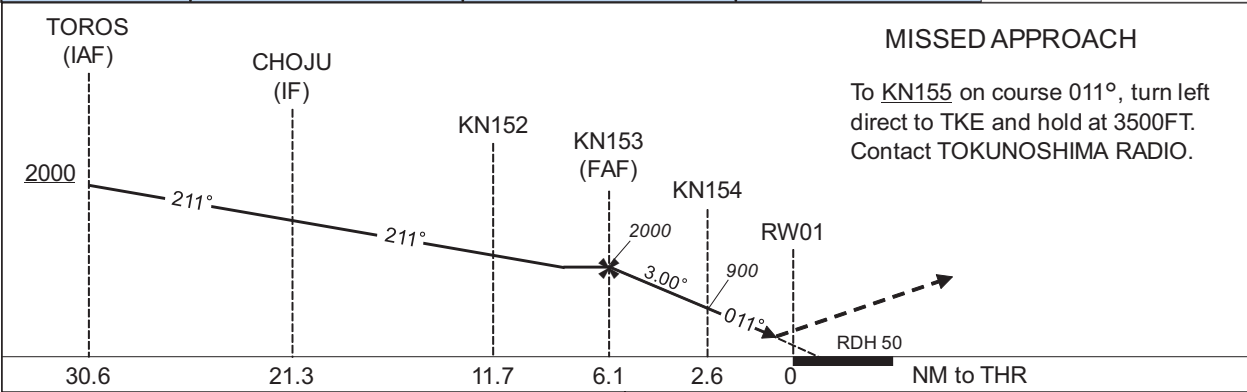
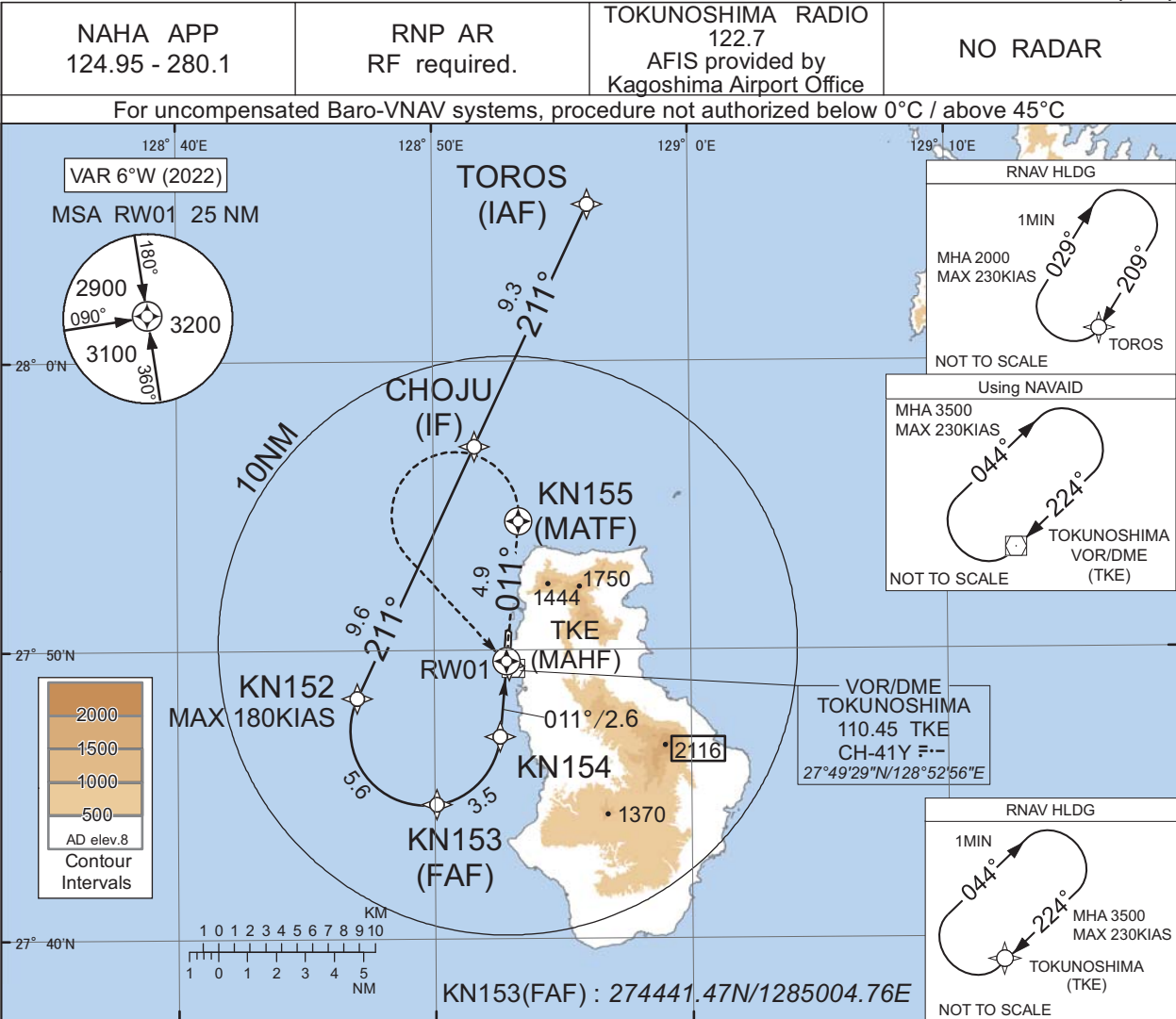
RNP Z RWY01



INSTRUMENT APPROACH CHART

RJKN / TOKUNOSHIMA

RNP Y RWY01(AR)



Missed APCH climb gradient MNM 5.0%			
CAT	MINIMA	THR elev. 17	AD elev. 8
	RNP 0.30		
A	DA(H)	CMV	
	-	-	
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

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Minimum Vectoring Altitude CHART

