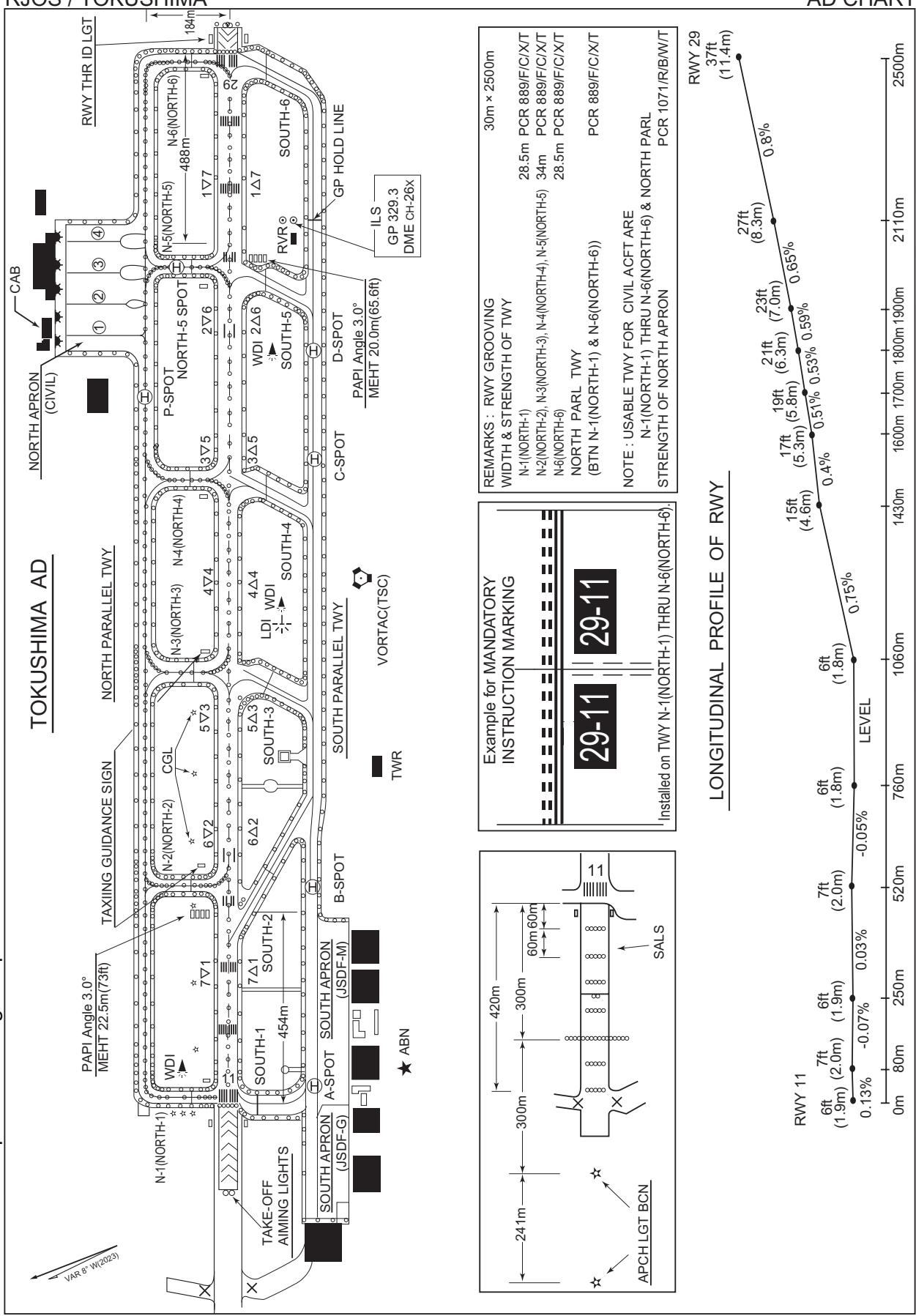


RJOS / TOKUSHIMA

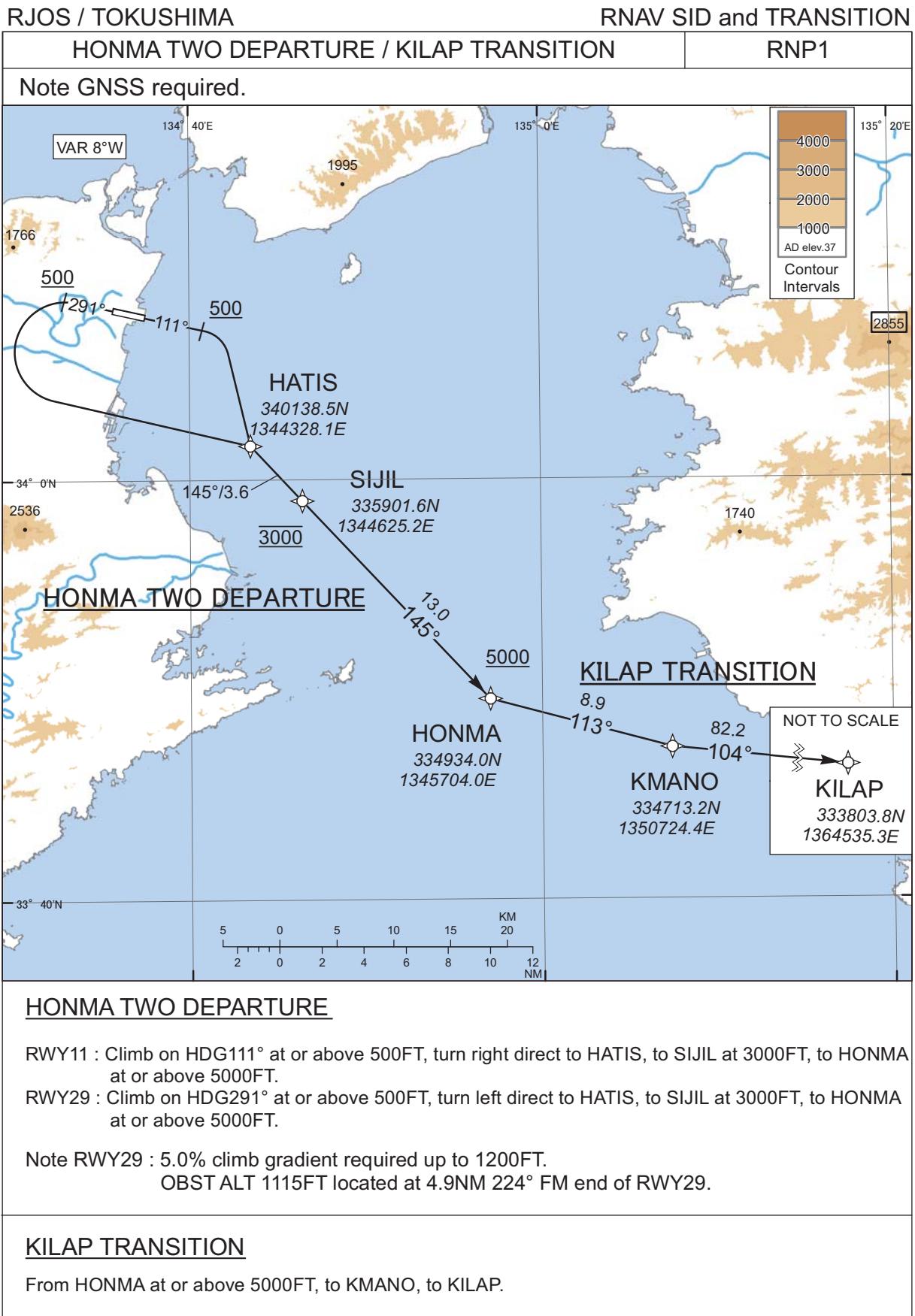
AD CHART

CHANGE : Description of strength of pavement.



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STANDARD DEPARTURE CHART-INSTRUMENT



STANDARD DEPARTURE CHART-INSTRUMENT

CHANGE : PROC course. PROC renamed(HONMA TWO DEPARTURE). Navigation Specification(RNAV1 → RNP1). VAR.

RJOS / TOKUSHIMA RNAV SID and TRANSITION

HONMA TWO DEPARTURE

RWY11

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	-	-	111 (102.6)	-8.0	-	-	+500	-	-	RNP1
002	DF	HATIS	-	-	-8.0	-	R	-	-	-	RNP1
003	TF	SIJIL	-	145 (136.9)	-8.0	3.6	-	3000	-	-	RNP1
004	TF	HONMA	-	145 (136.9)	-8.0	13.0	-	+5000	-	-	RNP1

RWY29

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	-	-	291 (282.6)	-8.0	-	-	+500	-	-	RNP1
002	DF	HATIS	-	-	-8.0	-	L	-	-	-	RNP1
003	TF	SIJIL	-	145 (136.9)	-8.0	3.6	-	3000	-	-	RNP1
004	TF	HONMA	-	145 (136.9)	-8.0	13.0	-	+5000	-	-	RNP1

KILAP TRANSITION

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	HONMA	-	-	-8.0	-	-	+5000	-	-	RNP1
002	TF	KMANO	-	113 (105.2)	-8.0	8.9	-	-	-	-	RNP1
003	TF	KILAP	-	104 (095.9)	-8.0	82.2	-	-	-	-	RNP1

STANDARD DEPARTURE CHART-INSTRUMENT

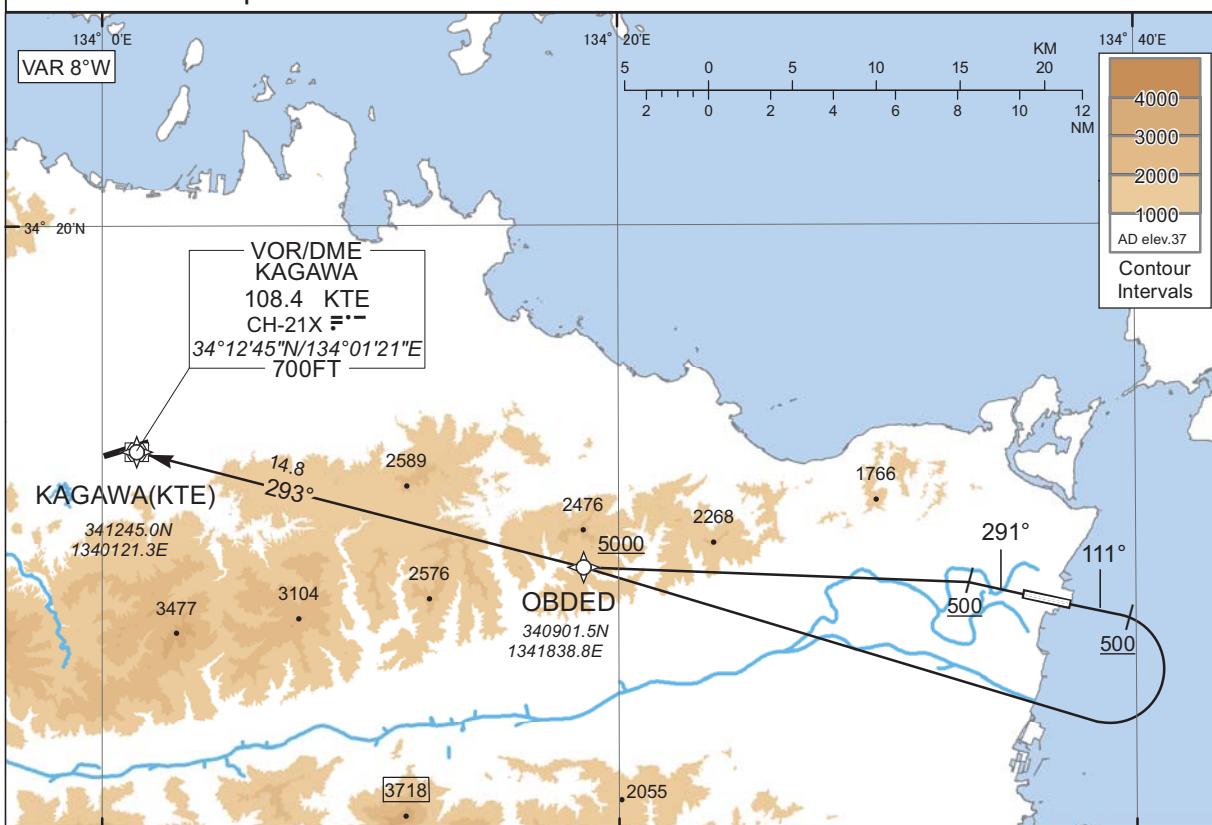
RJOS / TOKUSHIMA

RNAV SID

KAGAWA ONE DEPARTURE

RNP1

Note GNSS required.



RWY11 : Climb on HDG111° at or above 500FT, turn right direct to OBDED at or above 5000FT, to KTE.
 RWY29 : Climb on HDG291° at or above 500FT, direct to OBDED at or above 5000FT, to KTE.

Note RWY11 : 5.0% climb gradient required up to 1700FT.

OBST ALT 2494FT located at 11.5NM 288° FM end of RWY11.

RWY29 : 5.0% climb gradient required up to 2800FT.

OBST ALT 2494FT located at 10.2NM 288° FM end of RWY29.

RWY11

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	-	-	111 (102.6)	-8.0	-	-	+500	-	-	RNP1
002	DF	OBDED	-	-	-8.0	-	R	+5000	-	-	RNP1
003	TF	KTE	-	293 (284.7)	-8.0	14.8	-	-	-	-	RNP1

RWY29

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	-	-	291 (282.6)	-8.0	-	-	+500	-	-	RNP1
002	DF	OBDED	-	-	-8.0	-	-	+5000	-	-	RNP1
003	TF	KTE	-	293 (284.7)	-8.0	14.8	-	-	-	-	RNP1

CHANGE : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

RJOS / TOKUSHIMA

SID

TOSAR SIX DEPARTURE

RWY11 : Climb RWY HDG to 500FT, turn right HDG232°...

RWY29 : Climb RWY HDG to 600FT, turn left HDG142°...

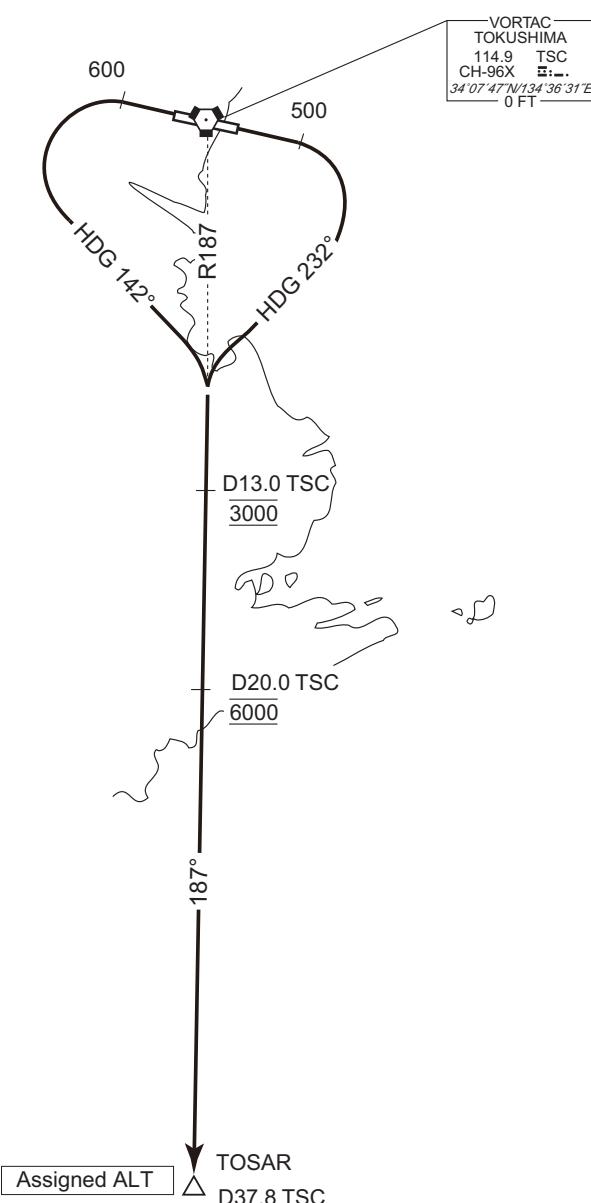
...to intercept and proceed via TSC R187 to TOSAR.

Cross TSC R187/13.0DME at 3000FT, cross TSC R187/20.0DME at 6000FT, cross TOSAR at assigned altitude.

NOTE RWY29 : 4.0% climb gradient required up to 800FT.

OBST ALT 1105FT located at 5.0NM 224° FM end of RWY29.

CHANGE : PROC course. PROC renamed(TOSAR SIX DEPARTURE). Note.



STANDARD DEPARTURE CHART-INSTRUMENT

RJOS / TOKUSHIMA

SID

TOKUSHIMA REVERSAL SEVEN DEPARTURE

RWY11 : Climb RWY HDG to 500FT, turn right HDG205°...

RWY29 : Climb RWY HDG to 600FT, turn left HDG115°...

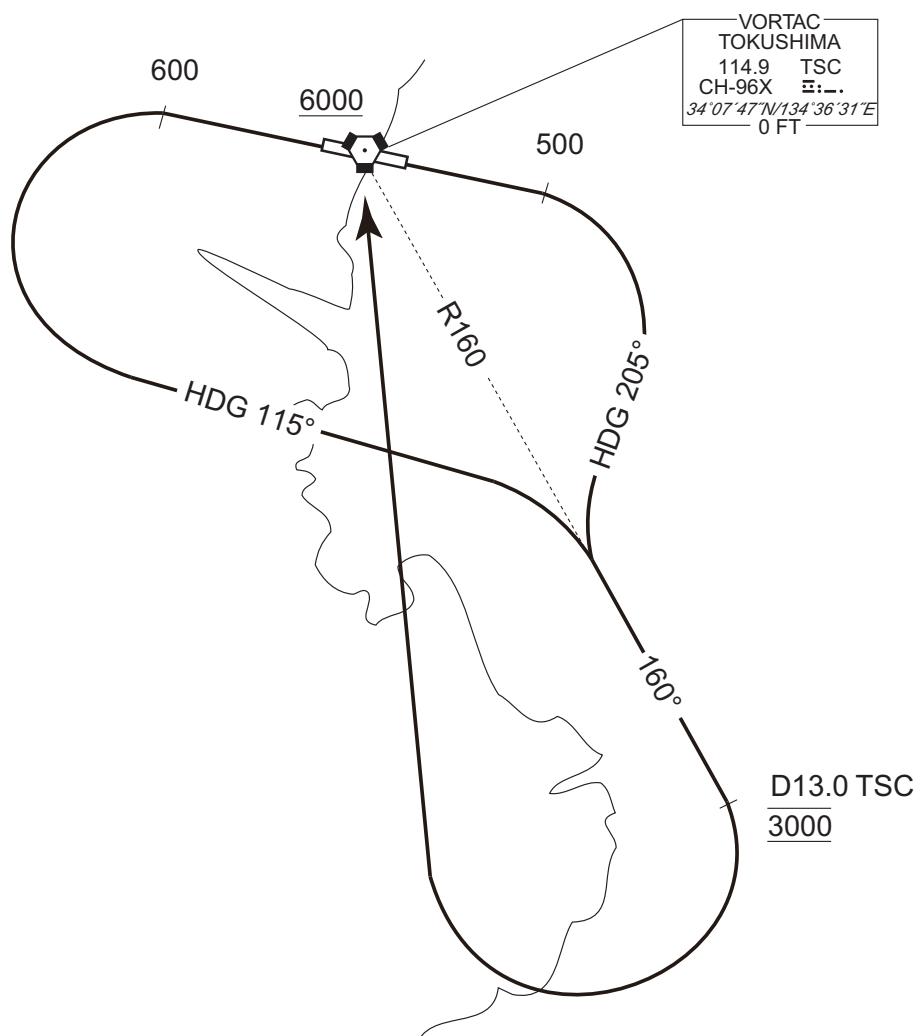
...to intercept and proceed via TSC R160 to 13.0DME, turn right, direct to TSC VORTAC.

Cross TSC R160/13.0DME at 3000FT, cross TSC VORTAC at or above 6000FT.

NOTE RWY29 : 4.0% climb gradient required up to 800FT.

OBST ALT 1105FT located at 5.0NM 224° FM end of RWY29.

CHANGE : PROC course. PROC renamed(TOKUSHIMA REVERSAL SEVEN DEPARTURE). Note.



STANDARD DEPARTURE CHART -INSTRUMENT

RJOS / TOKUSHIMA

SID and TRANSITION

MISAKI FOUR DEPARTURE

RWY11 : Climb RWY HDG to 500FT, turn right,...

RWY29 : Climb RWY HDG to 600FT, turn left HDG098° to intercept and proceed...
...via TSC R143 to HONMA.Cross TSC R143/12.0DME at 3000FT, cross HONMA at or above 8000FT.
(Cross HONMA at or above 9000FT when using KEC TACAN only).

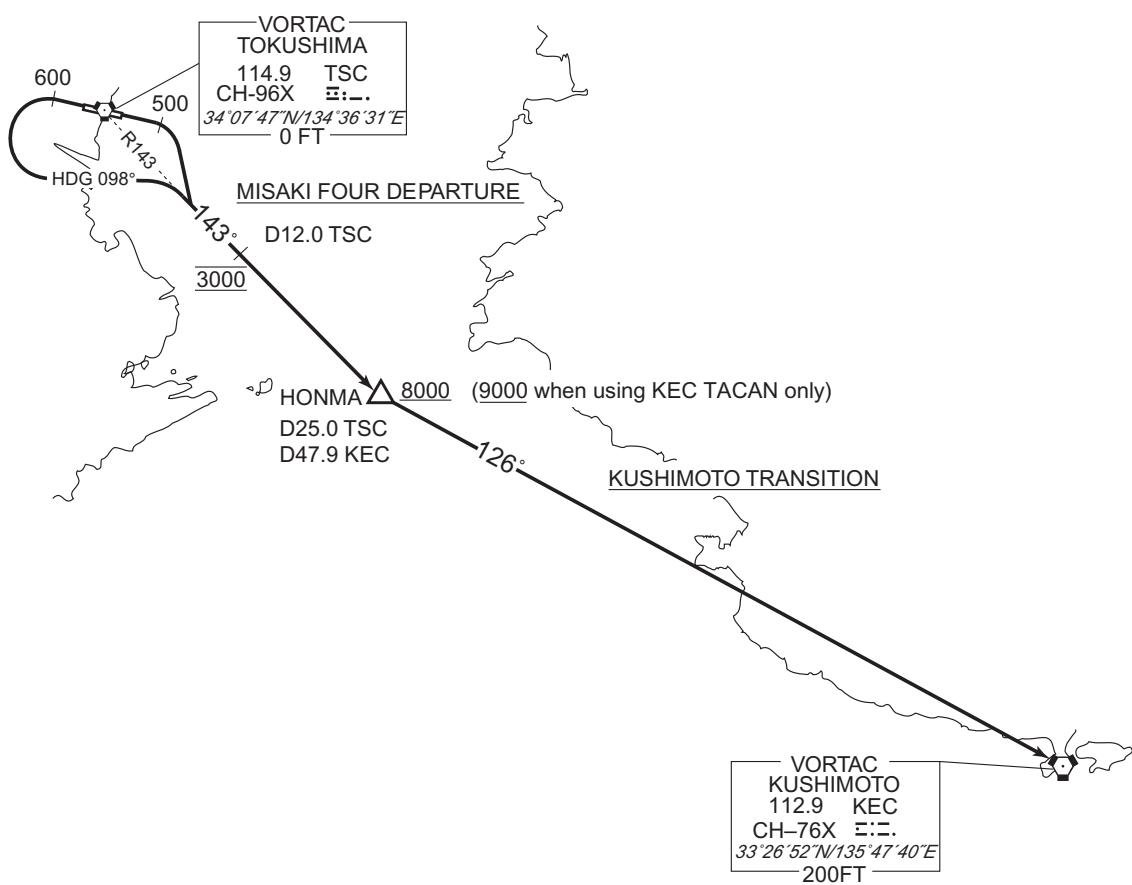
NOTE RWY29 : 4.0% climb gradient required up to 800FT.

OBST ALT 1105FT located at 5.0NM 224° FM end of RWY29.

CHANGE : PROC renamed. PROC course. ALT restriction at HONMA when using KEC TACAN only.

KUSHIMOTO TRANSITION

From over HONMA, via KEC R306 to KEC VORTAC.



STANDARD ARRIVAL CHART-INSTRUMENT

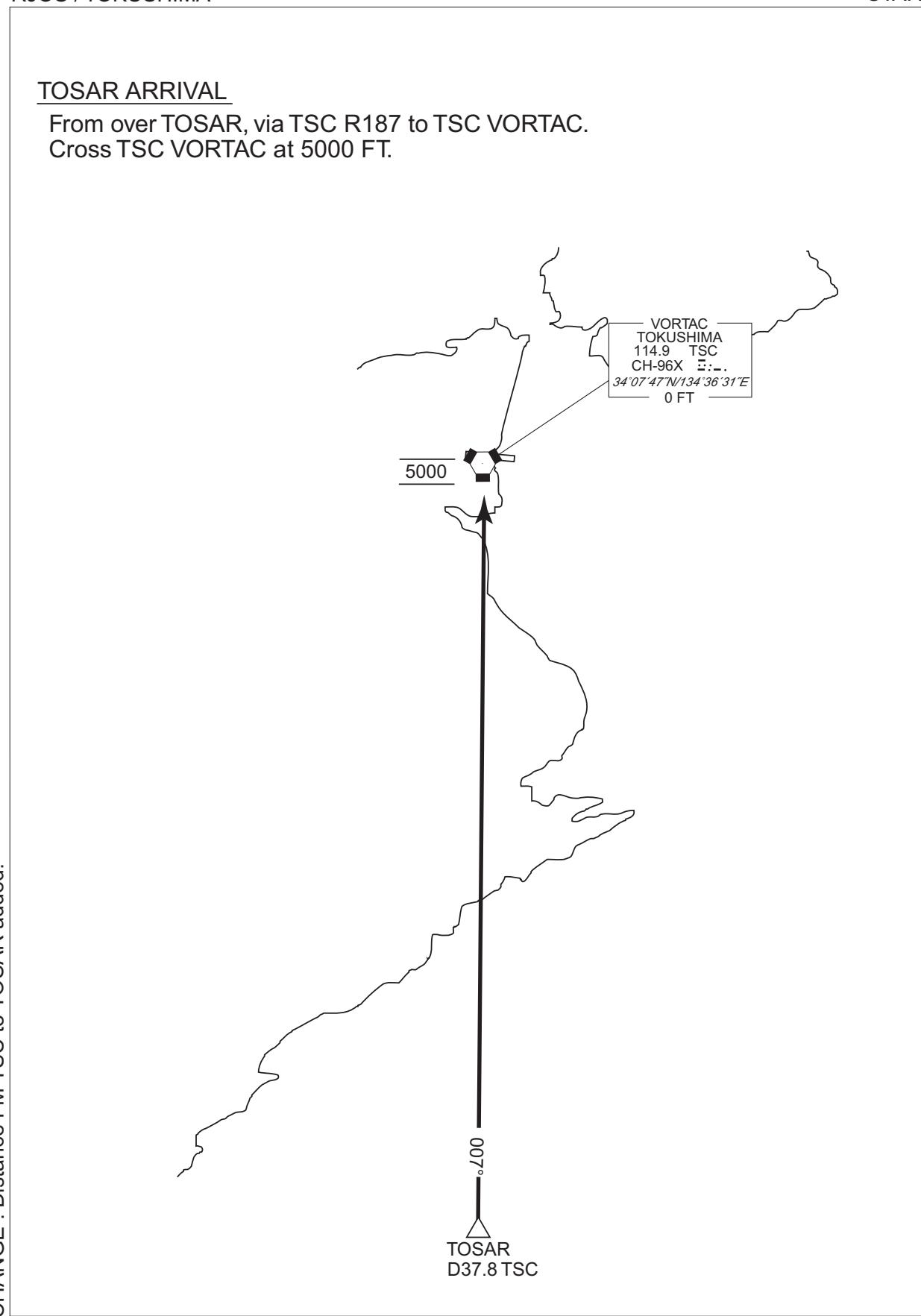
RJOS / TOKUSHIMA

STAR

TOSAR ARRIVAL

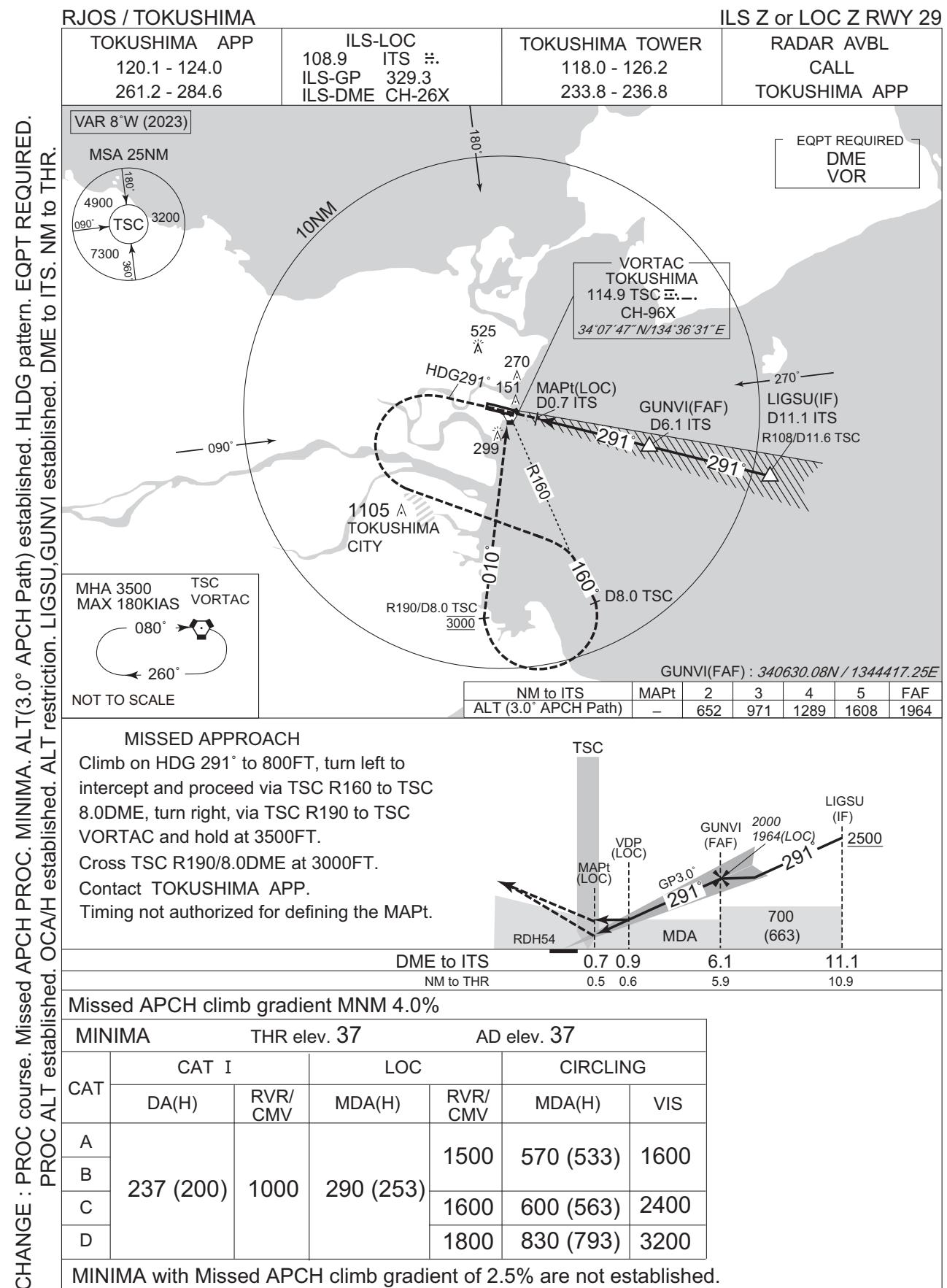
From over TOSAR, via TSC R187 to TSC VORTAC.
Cross TSC VORTAC at 5000 FT.

CHANGE : Distance FM TSC to TOSAR added.



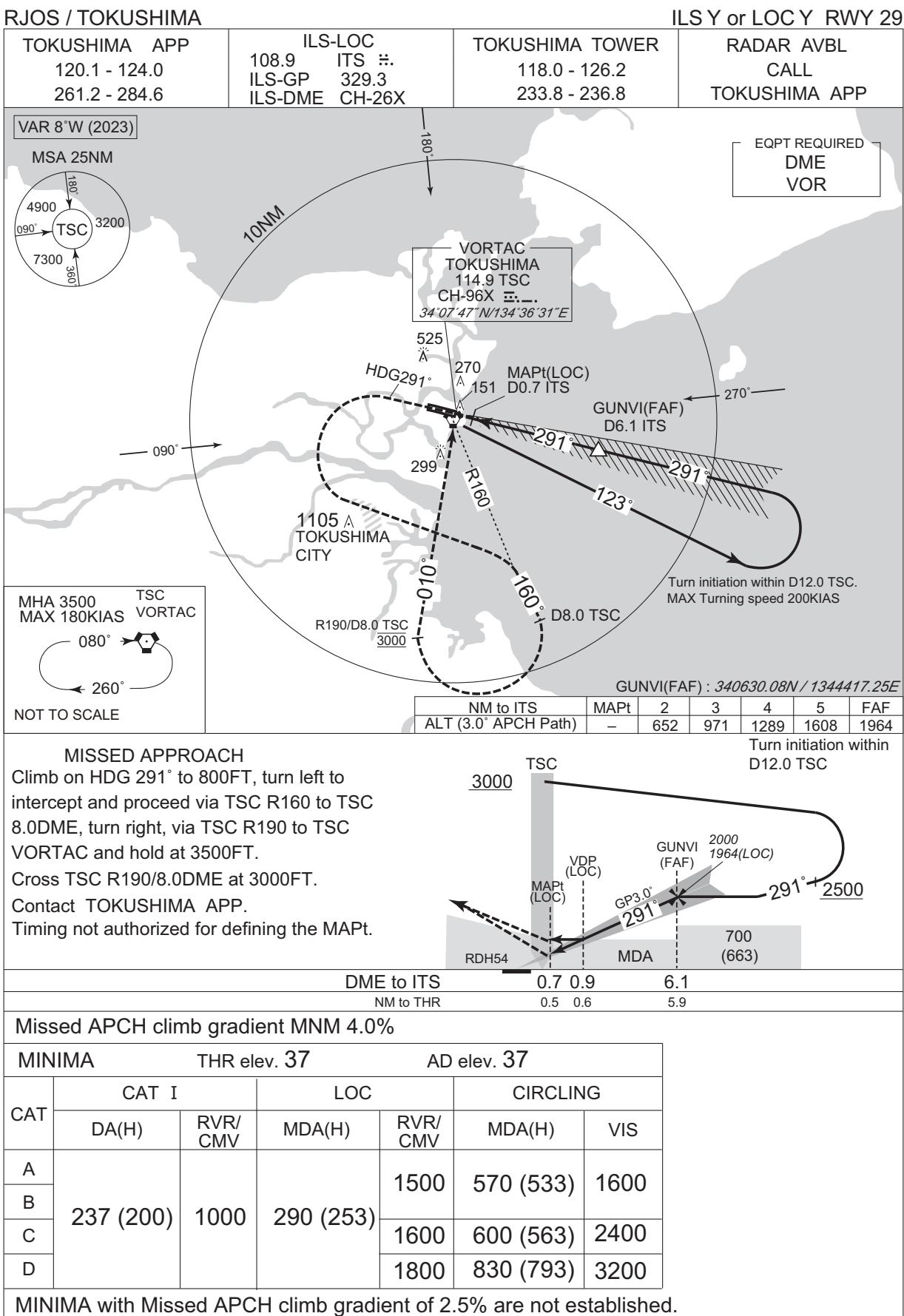
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INSTRUMENT APPROACH CHART

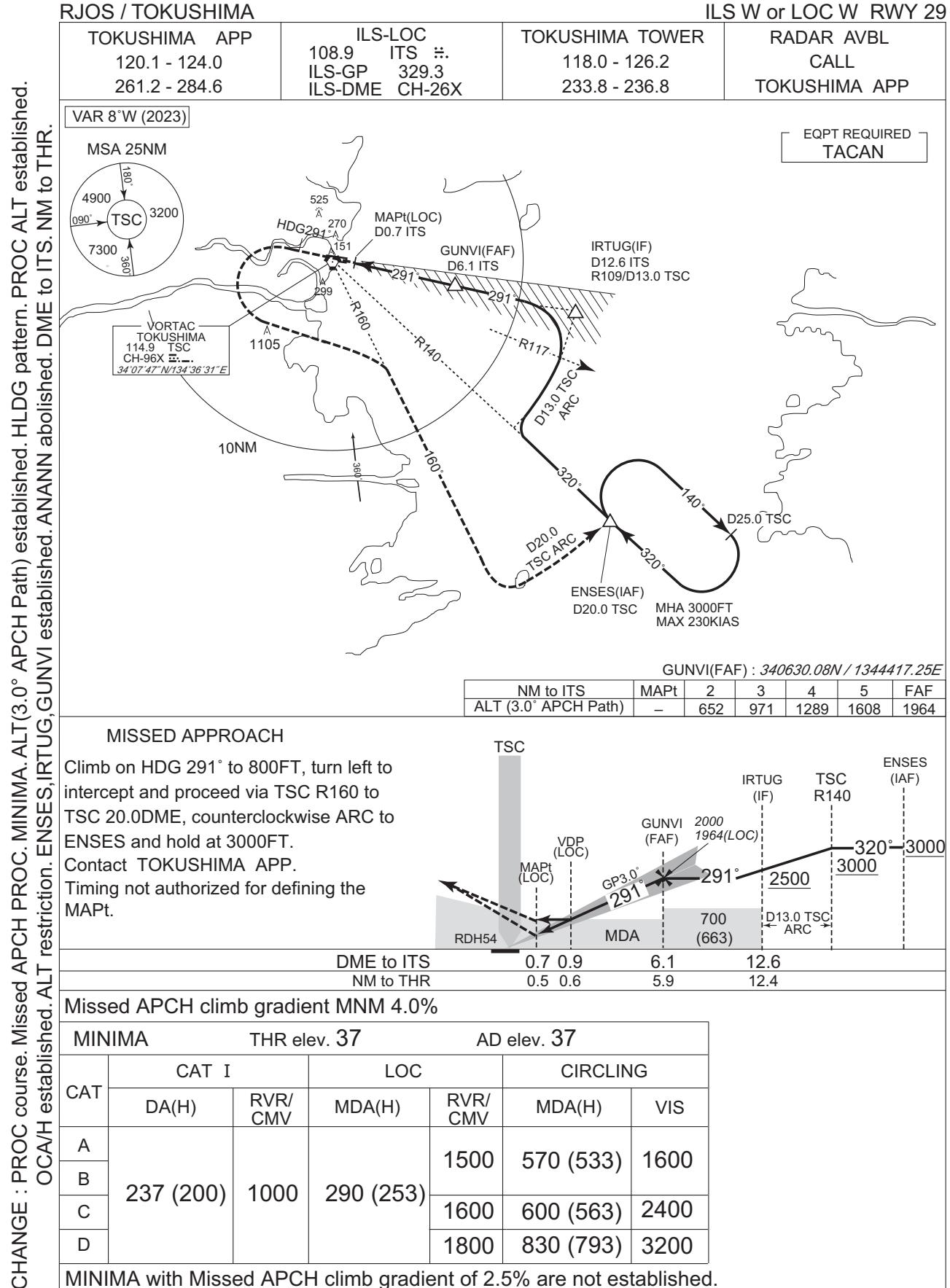


INSTRUMENT APPROACH CAHRT

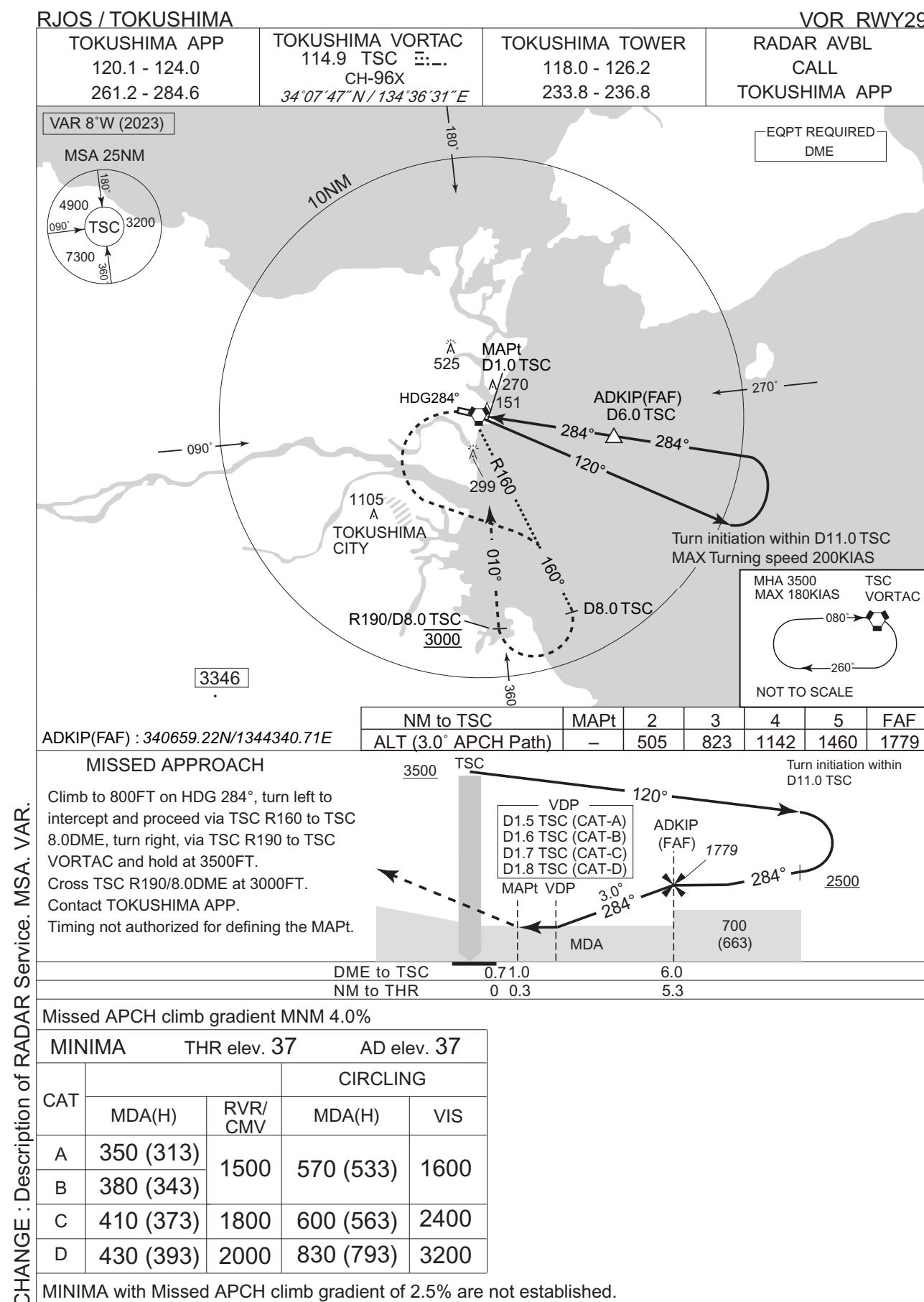
CHANGE : PROC course. Missed APCH PROC. MINIMA. ALT(3.0° APCH Path) established. HDG pattern. EQPT REQUIRED. PROC ALT established. OCA/H established. ALT restriction. GUNVI established. DME to ITS. NM to THR.



INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA

TOKUSHIMA APP 120.1 - 124.0 261.2 - 284.6	TOKUSHIMA TACAN CH-96X TSC $34^{\circ}07'48''N / 134^{\circ}36'36''E$	TOKUSHIMA TOWER 118.0 - 126.2 233.8 - 236.8	RADAR AVBL CALL TOKUSHIMA APP
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VAR 8°W (2023)

OTKEV(FAF) : $340613.11N / 1344218.48E$

MISSED APPROACH

Climb on HDG 295° to 800FT, turn left to intercept and proceed via TSC R160 to TSC 20.0DME, counterclockwise ARC to ENSES and hold at 3000FT. Contact TOKUSHIMA APP. Timing not authorized for defining the MAPt.

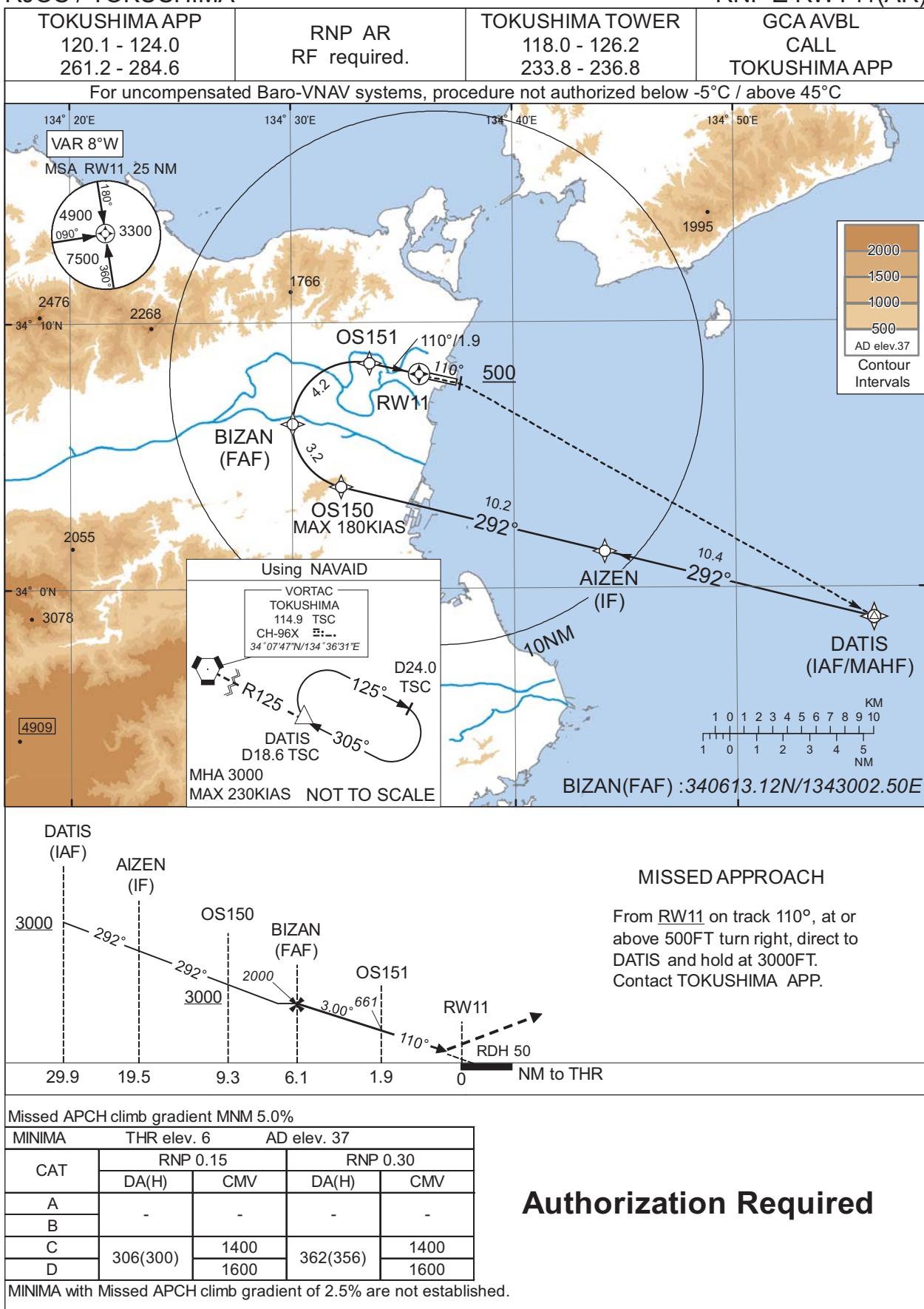
Missed APCH climb gradient MNM 4.0%

MINIMA AD elev. 37		
CAT	CIRCLING	
	MDA(H)	VIS
A	570 (533)	1600
B	600 (563)	2400
C	830 (793)	3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.

INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA



INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA

RNP Z RWY11(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	DATIS	-	-	-7.8	-	-	+3000	-	-	-
002	TF	AIZEN	-	292 (284.2)	-7.8	10.4	-	-	-	-	1.0
003	TF	OS150	-	292 (284.1)	-7.8	10.2	-	+3000	-180	-	0.3
004	RF Center: OSRF2 r=2.38NM	BIZAN	-	-	-7.8	3.2	R	2000	-	-	0.3
005	RF Center: OSRF2 r=2.38NM	OS151	-	-	-7.8	4.2	R	661	-	-3.00	0.15 0.30
006	TF	RW11	Y	110 (102.6)	-7.8	1.9	-	56	-	-3.00/50	0.15 0.30
007	FA	-	-	110 (102.6)	-7.8	-	-	+500	-	-	1.0
008	DF	DATIS	-	-	-7.8	-	R	3000	-	-	1.0

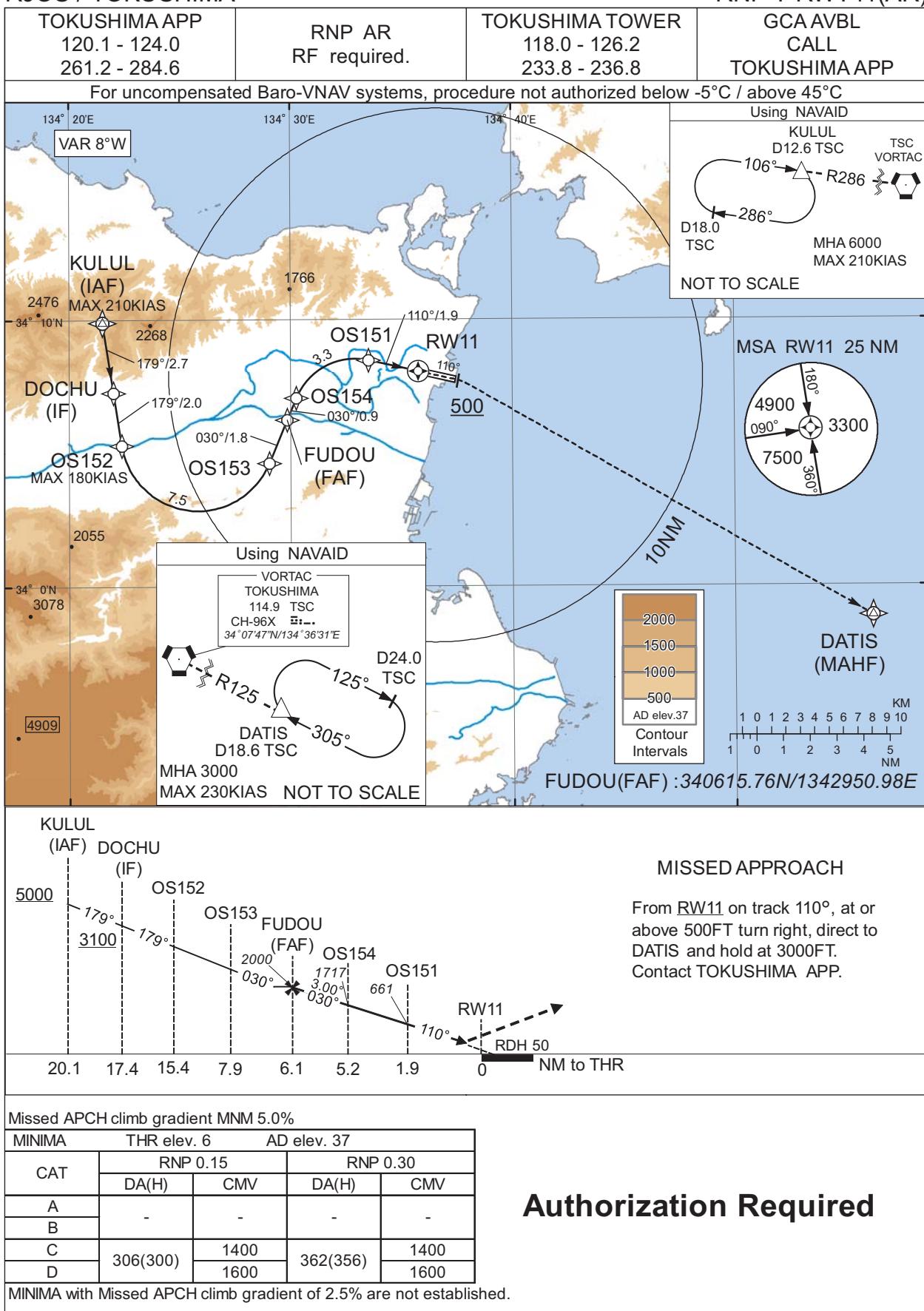
Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
DATIS	335851.96N / 1345613.14E	OSRF2	340610.26N / 1343254.26E
AIZEN	340123.97N / 1344405.59E		
OS150	340351.55N / 1343212.95E		
BIZAN	340613.12N / 1343002.50E		
OS151	340829.79N / 1343331.39E		
RW11	340804.98N / 1343545.74E		

CHANGE : PROC renamed.

INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA



INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA

RNP Y RWY11(AR)

Coding Table

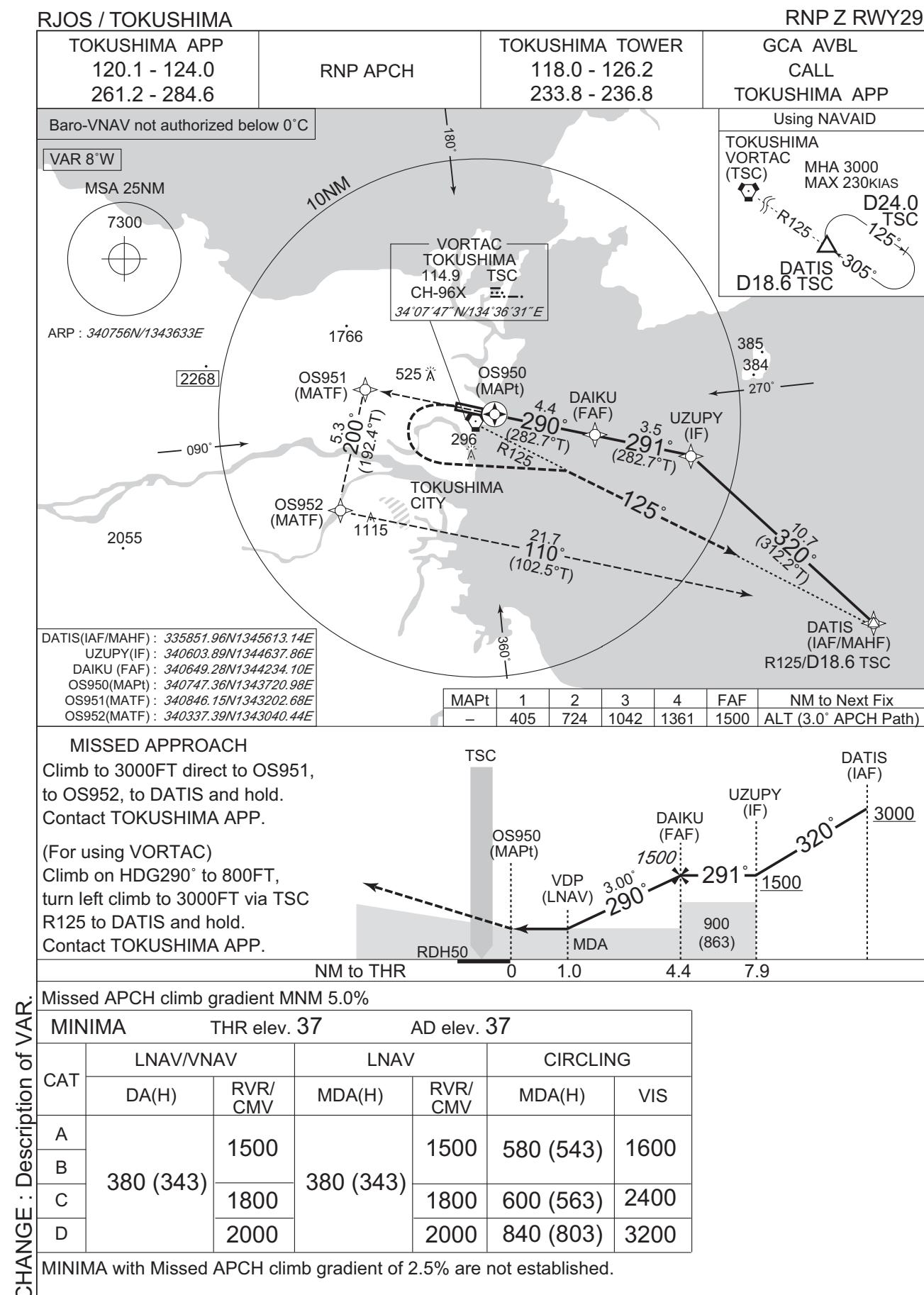
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/ RDH (°/FT)	RNP Value
001	IF	KULUL	-	-	-7.8	-	-	+5000	-210	-	-
002	TF	DOCHU	-	179 (171.2)	-7.8	2.7	-	+3100	-	-	0.3
003	TF	OS152	-	179 (171.2)	-7.8	2.0	-	-	-180	-	0.3
004	RF Center: OSRF1 r=2.88NM	OS153	-	-	-7.8	7.5	L	-	-	-	0.3
005	TF	FUDOU	-	030 (022.4)	-7.8	1.8	-	2000	-	-	0.3
006	TF	OS154	-	030 (022.4)	-7.8	0.9	-	1717	-	-3.00	0.15 0.30
007	RF Center: OSRF2 r=2.38NM	OS151	-	-	-7.8	3.3	R	661	-	-3.00	0.15 0.30
008	TF	RW11	Y	110 (102.6)	-7.8	1.9	-	56	-	-3.00/50	0.15 0.30
009	FA	-	-	110 (102.6)	-7.8	-	-	+500	-	-	1.0
010	DF	DATIS	-	-	-7.8	-	R	3000	-	-	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
KULUL	340954.74N / 1342131.22E	OSRF1	340544.73N / 1342549.48E
DOCHU	340716.80N / 1342200.89E	OSRF2	340610.26N / 1343254.26E
OS152	340517.99N / 1342223.19E		
OS153	340438.24N / 1342902.35E		
FUDOU	340615.76N / 1342950.98E		
OS154	340705.08N / 1343015.59E		
OS151	340829.79N / 1343331.39E		
RW11	340804.98N / 1343545.74E		
DATIS	335851.96N / 1345613.14E		

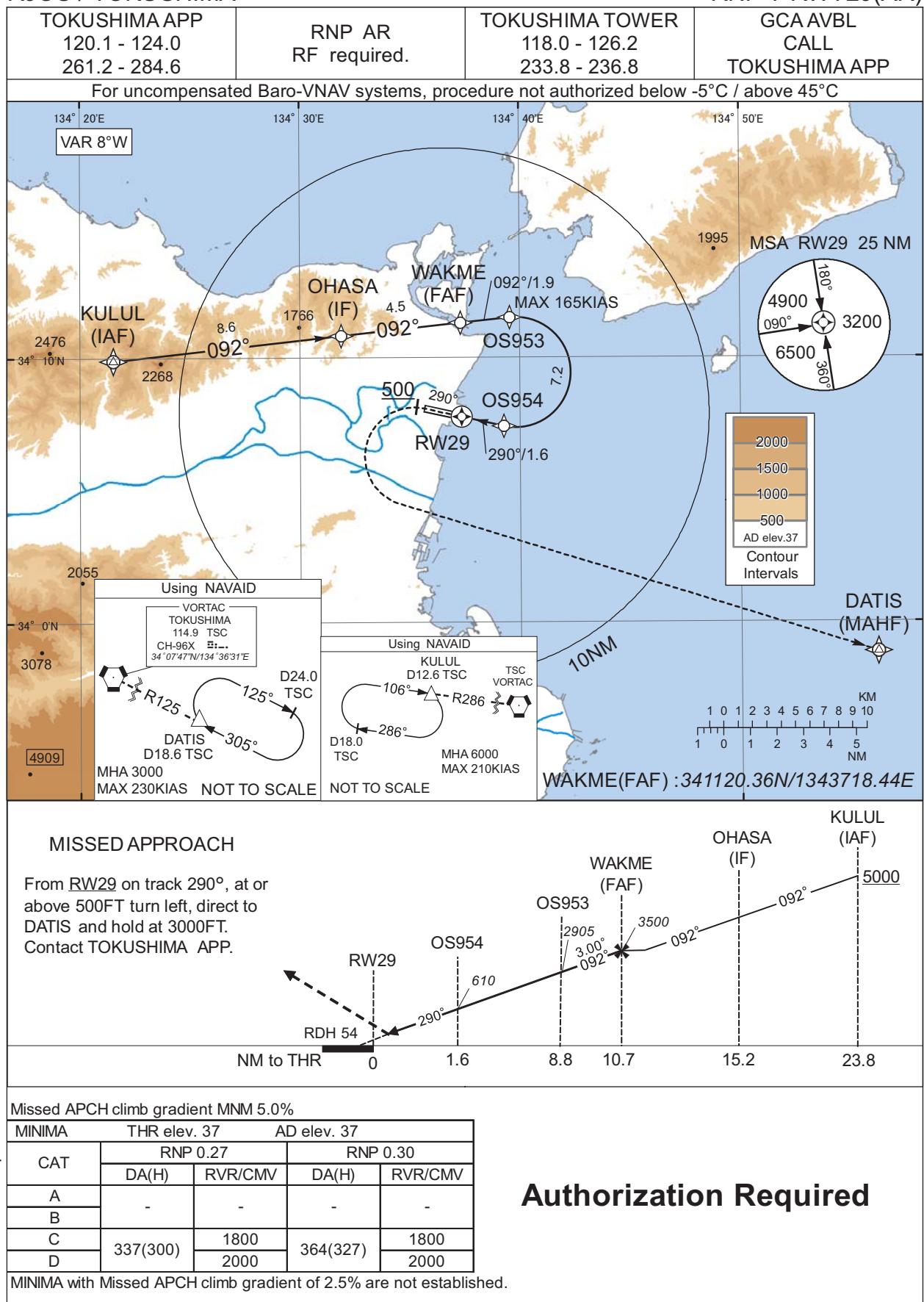
CHANGE : PROC renamed.

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA



INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA

RNP Y RWY29(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	KULUL	-	-	-7.8	-	-	+5000	-	-	-
002	TF	OHASA	-	092 (083.7)	-7.8	8.6	-	-	-	-	1.0
003	TF	WAKME	-	092 (083.8)	-7.8	4.5	-	3500	-	-	0.7
004	TF	OS953	-	092 (083.8)	-7.8	1.9	-	2905	-165	-3.00	0.27 0.30
005	RF Center: OSRF3 r=2.08NM	OS954	-	-	-7.8	7.2	R	610	-	-3.00	0.27 0.30
006	TF	RW29	Y	290 (282.6)	-7.8	1.6	-	91	-	-3.00/54	0.27 0.30
007	FA	-	-	290 (282.6)	-7.8	-	-	+500	-	-	1.0
008	DF	DATIS	-	-	-7.8	-	L	3000	-	-	1.0

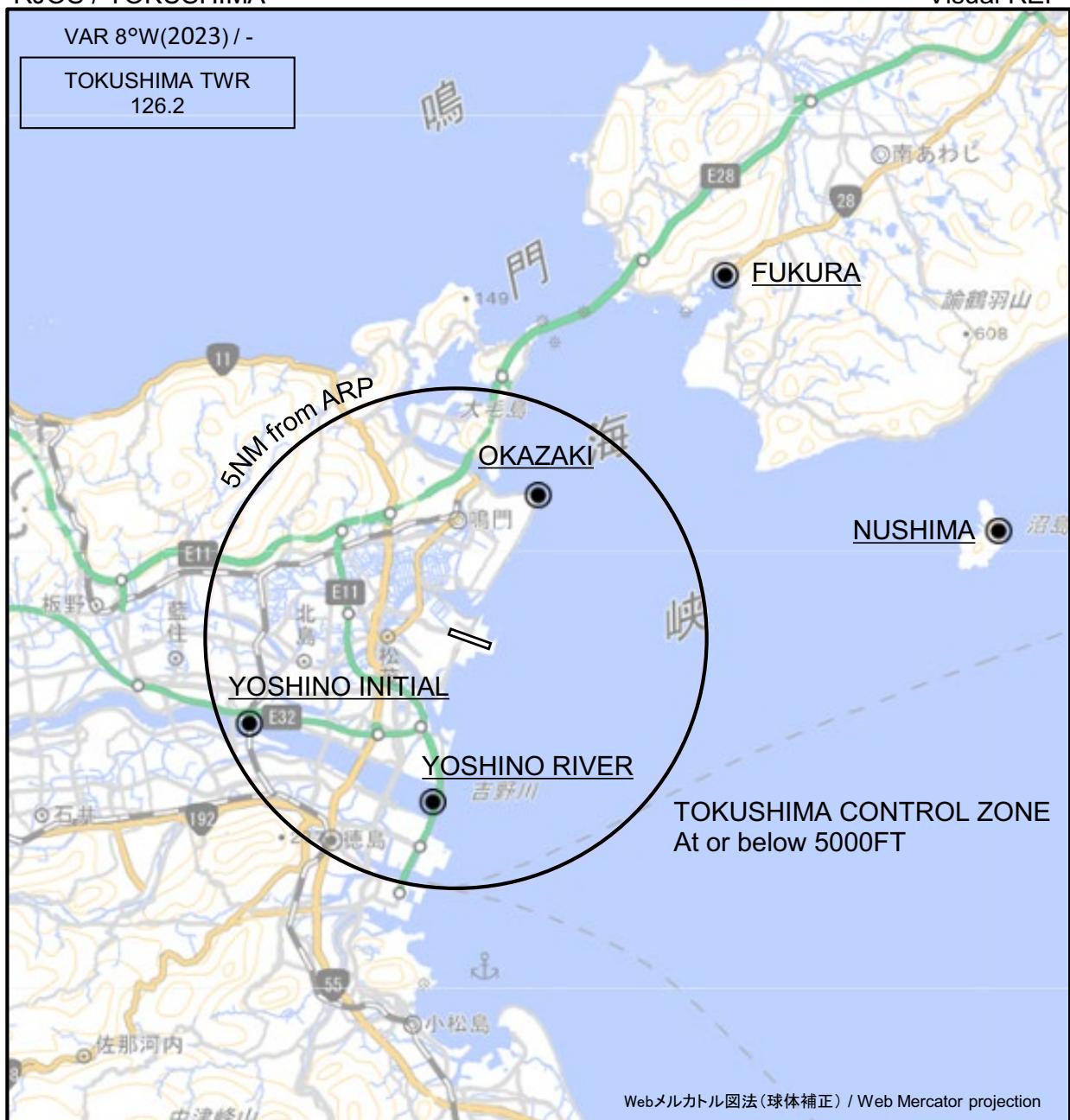
Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
KULUL	340954.74N / 1342131.22E	OSRF3	340928.04N / 1343948.74E
OHASA	341051.19N / 1343153.12E		
WAKME	341120.36N / 1343718.44E		
OS953	341132.33N / 1343932.73E		
OS954	340726.04N / 1343916.02E		
RW29	340747.36N / 1343720.97E		
DATIS	335851.96N / 1345613.14E		

CHANGE : PROC renamed.

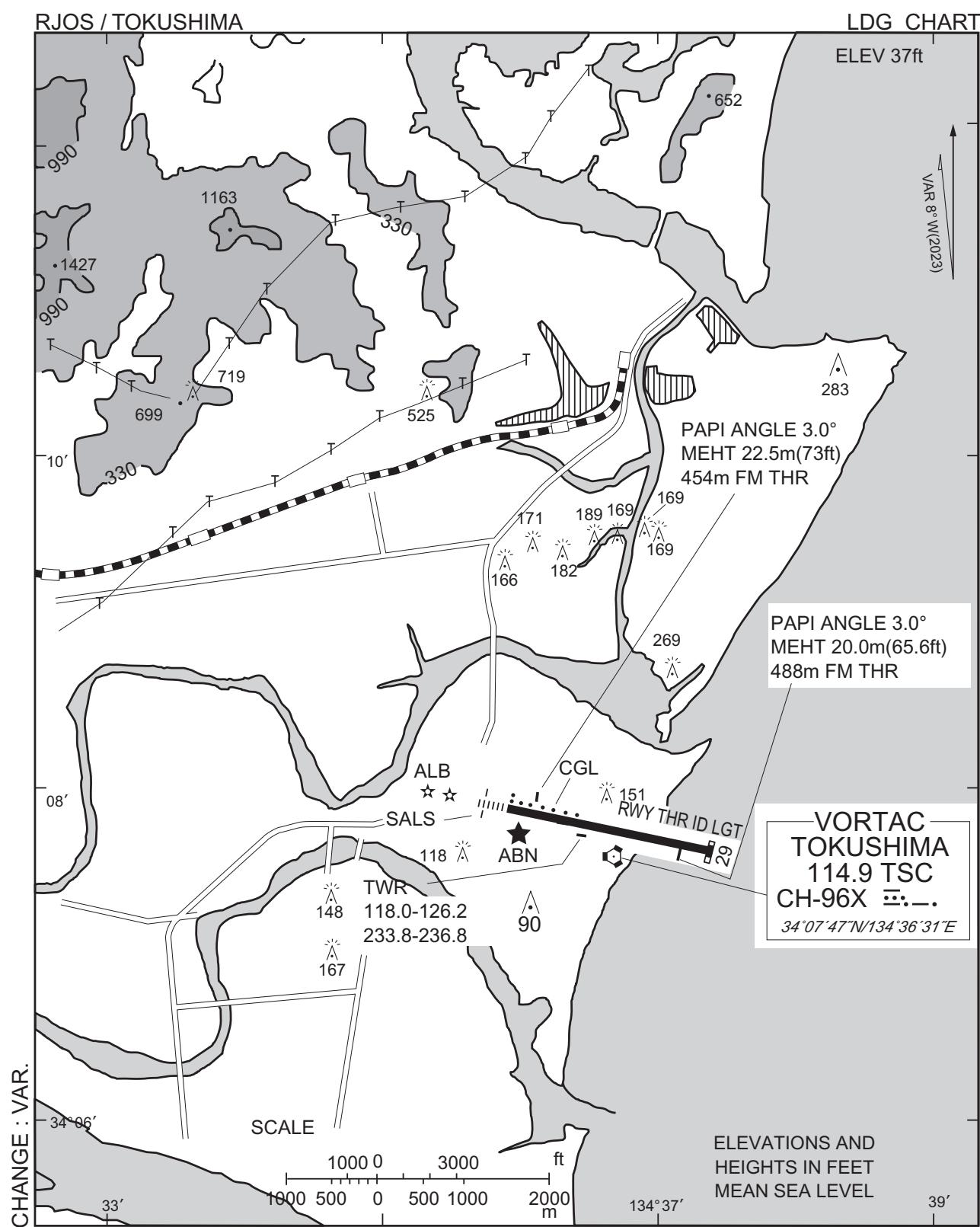
RJOS / TOKUSHIMA

Visual REP



CHANGE : VAR.

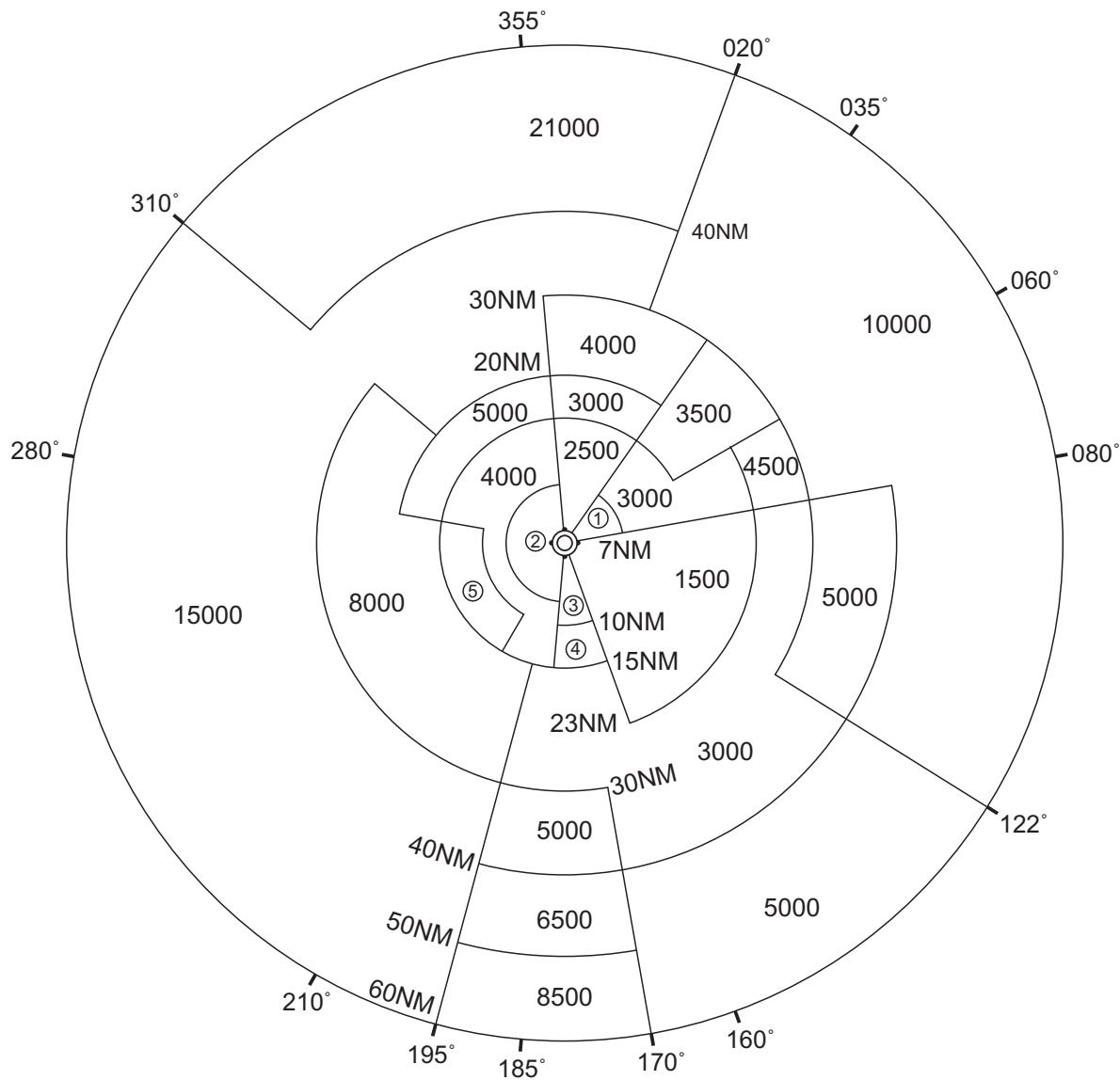
Call sign	BRG / DIST from ARP	Remarks
福良 Fukura	037°T / 9.0NM	港 Harbor
岡崎 Okazaki	029°T / 3.3NM	灯台 Lighthouse
沼島 Nushima	079°T / 11.1NM	灯台 Lighthouse
吉野イニシャル Yoshino Initial	248°T / 4.5NM	鉄道橋中央 The center of iron bridge
吉野リバー Yoshino River	188°T / 3.3NM	吉野川河口 River mouth



RJOS / TOKUSHIMA

Minimum Vectoring Altitude CHART

VAR 8°W (2023)



- ① 2000
② 3000
③ 1700
④ 2100
⑤ 4500

CENTER : 340751N/1343552E (RADAR SITE)

CHANGE : VAR

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