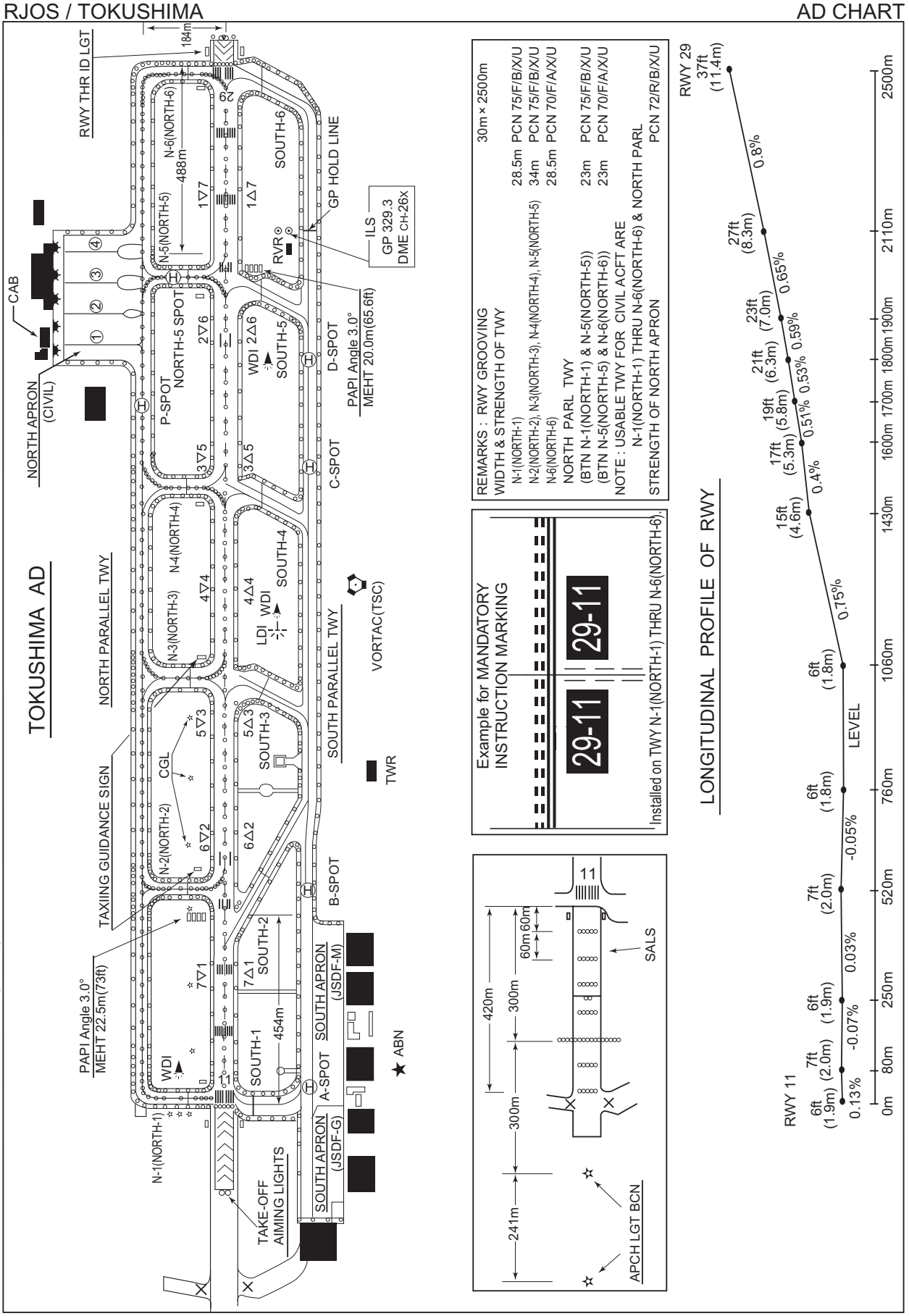
RJOS / TOKUSHIMA AD CHART

CHANGE : BLDG, name of BLDG(CAB) added.



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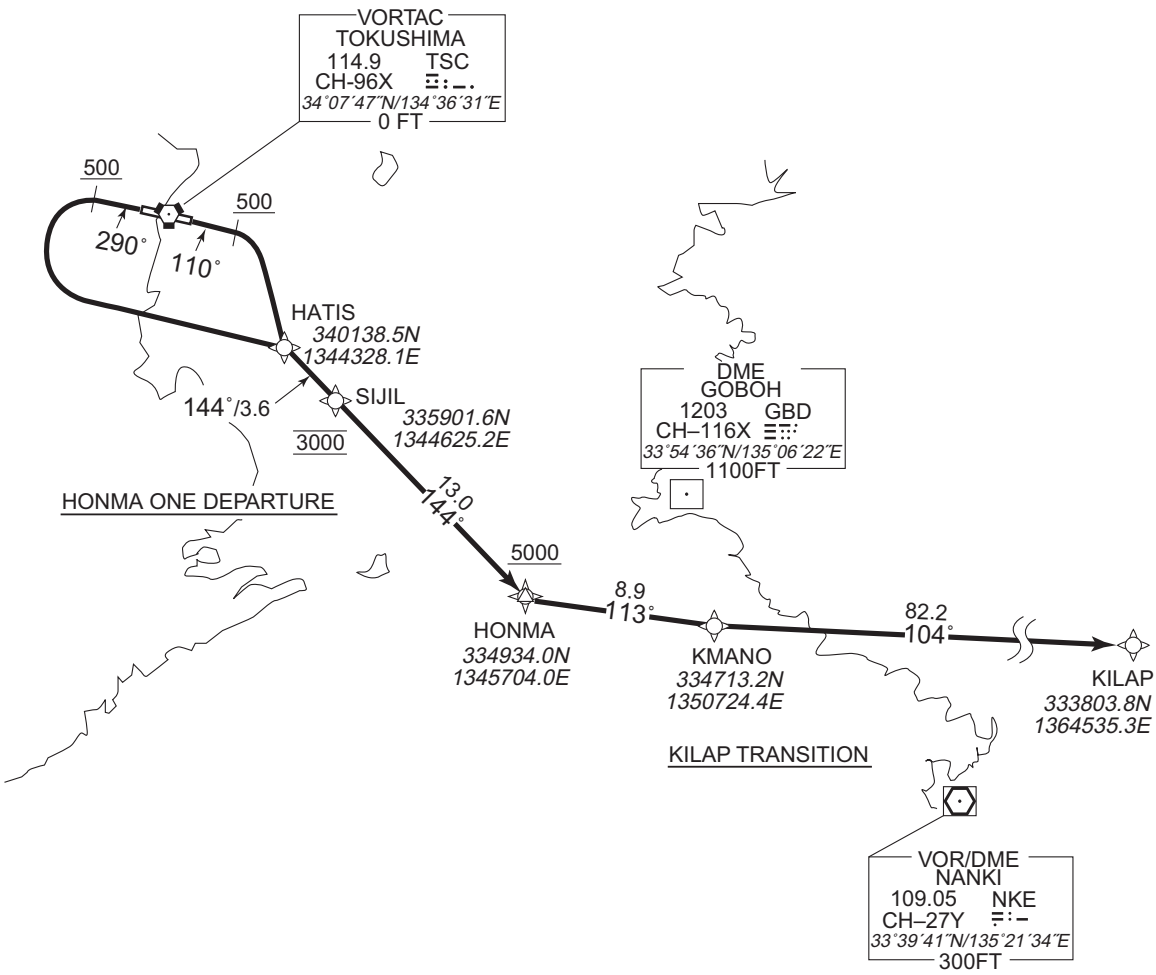
STANDARD DEPARTURE CHART-INSTRUMENT

RJOS / TOKUSHIMA — RNAV SID and TRANSITION

HONMA ONE DEPARTURE / KILAP TRANSITION		RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.	Critical DME	RWY29 AJD : 3.0NM to HATIS – HATIS KILAP TRANSITION AJD : 4.0NM to KMANO – KMANO
	DME GAP	–
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

VAR 8˚W (2018)



HONMA ONE DEPARTURE

RWY11 : Climb on HDG110˚ at or above 500FT, turn right direct to HATIS, to SIJIL at 3000FT, to HONMA at or above 5000FT.

RWY29 : Climb on HDG290˚ at or above 500FT, turn left direct to HATIS, to SIJIL at 3000FT, to HONMA at or above 5000FT.

Note RWY29 : 5.0% climb gradient required up to 1200FT.
OBST ALT 1115FT located at 4.9NM FM end of RWY29.

KILAP TRANSITION

From HONMA at or above 5000FT, to KMANO, to KILAP.

STANDARD DEPARTURE CHART-INSTRUMENT

RJOS / TOKUSHIMA RNAV SID and TRANSITION

HONMA ONE 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	–	–	110 (102.6)	-7.6	–	–	+500	–	–	RNAV1
002	DF	HATIS	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	SIJIL	–	144 (136.9)	-7.6	3.6	–	3000	–	–	RNAV1
004	TF	HONMA	–	144 (136.9)	-7.6	13.0	–	+5000	–	–	RNAV1

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	–	–	290 (282.6)	-7.6	–	–	+500	–	–	RNAV1
002	DF	HATIS	–	–	-7.6	–	L	–	–	–	RNAV1
003	TF	SIJIL	–	144 (136.9)	-7.6	3.6	–	3000	–	–	RNAV1
004	TF	HONMA	–	144 (136.9)	-7.6	13.0	–	+5000	–	–	RNAV1

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	–	–	-7.6	–	–	+5000	–	–	RNAV1
002	TF	KMANO	–	113 (105.2)	-7.6	8.9	–	–	–	–	RNAV1
003	TF	KILAP	–	104 (095.9)	-7.6	82.2	–	–	–	–	RNAV1

STANDARD DEPARTURE CHART-INSTRUMENT

CHANGE : PROC renamed(TOSAR FIVE DEPARTURE, TOKUSHIMA REVERSAL SIX DEPARTURE). TOKUSHIMA NDB(TS) abolished.
Note added.

RJOS / TOKUSHIMA SID

TOSAR FIVE DEPARTURE

RWY 29 : Turn left within 3NM....
RWY 11 : Turn right....
....climb via TSC R160 to TSC 13.0DME, turn right to intercept and proceed via TSC R187 to TOSAR.

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

Note1 : When take off RWY29, following climb gradient should be maintained until passing 300FT

Speed (Knots)	60	90	120	150	180	210
Rate (Feet/Min)	300	450	600	750	900	1050

2 : TV antenna tower (Mt. BIZAN : height 1115FT) at TSC R230 5DME.

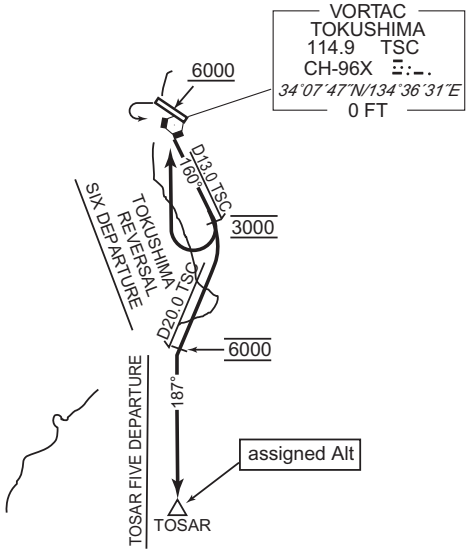
TOKUSHIMA REVERSAL SIX DEPARTURE

RWY 29 : Turn left within 3NM....
RWY 11 : Turn right....
.... climb via TSC R160 to TSC 13.0DME, then turn right proceed to TSC VORTAC.
Cross TSC 13.0DME at 3000FT, cross TSC VORTAC at or above 6000FT.

Note1 : When take off RWY29, following climb gradient should be maintained until passing 300FT

Speed (Knots)	60	90	120	150	180	210
Rate (Feet/Min)	300	450	600	750	900	1050

2 : TV antenna tower (Mt. BIZAN : height 1115FT) at TSC R230 5DME.



STANDARD DEPARTURE CHART -INSTRUMENT

RJOS / TOKUSHIMA SID and TRANSITION

CHANGE : PROC renamed(MISAKI TWO DEPARTURE). TOKUSHIMA NDB(TS) abolished.

MISAKI TWO DEPARTURE

RWY29 : Turn left within 3NM,...

RWY11 : Turn right,...

...climb via TSC R143 to HONMA.

Cross TSC 12.0DME at 3000FT, cross HONMA at or above 8000FT.

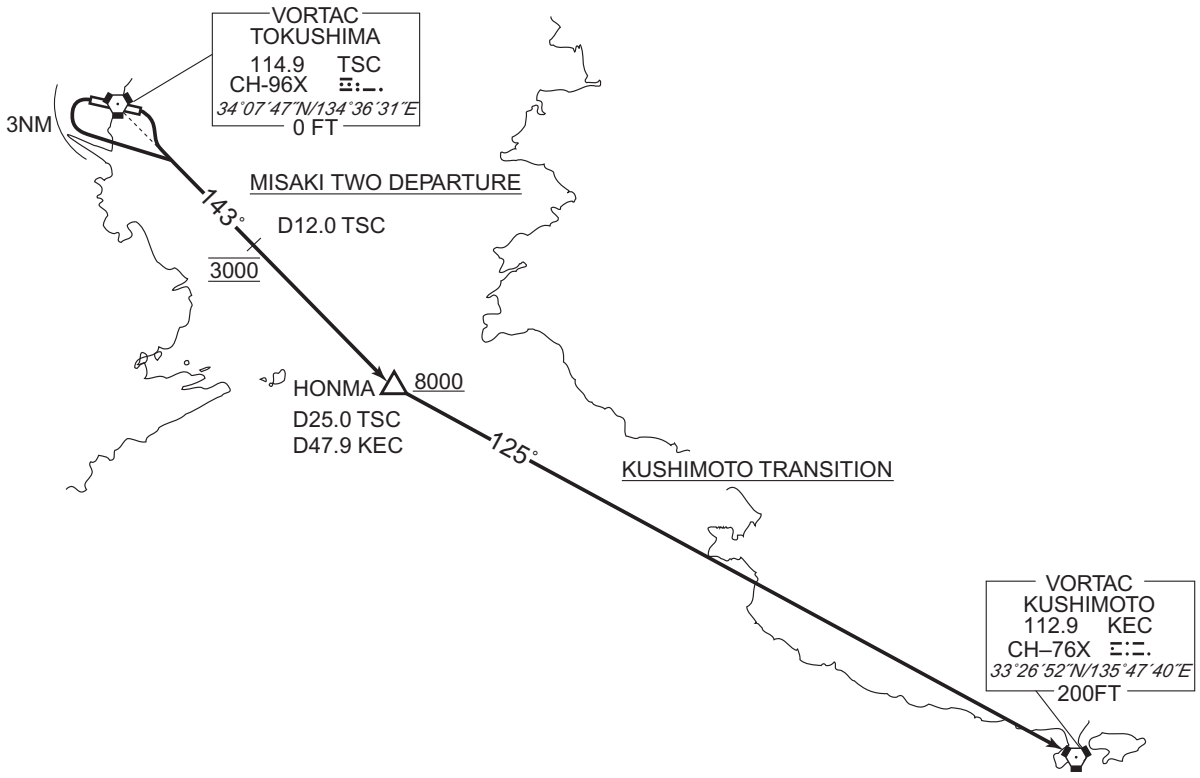
Note1 : When take off RWY29, following climb gradient should be maintained until passing 300FT

Speed (Knots)	60	90	120	150	180	210
Rate (Feet/Min)	300	450	600	750	900	1050

2 : TV antenna tower (Mt. BIZAN : height 1115FT) at TSC R230 5DME.

KUSHIMOTO TRANSITION

From over HONMA, via KEC R305 to KEC VORTAC.



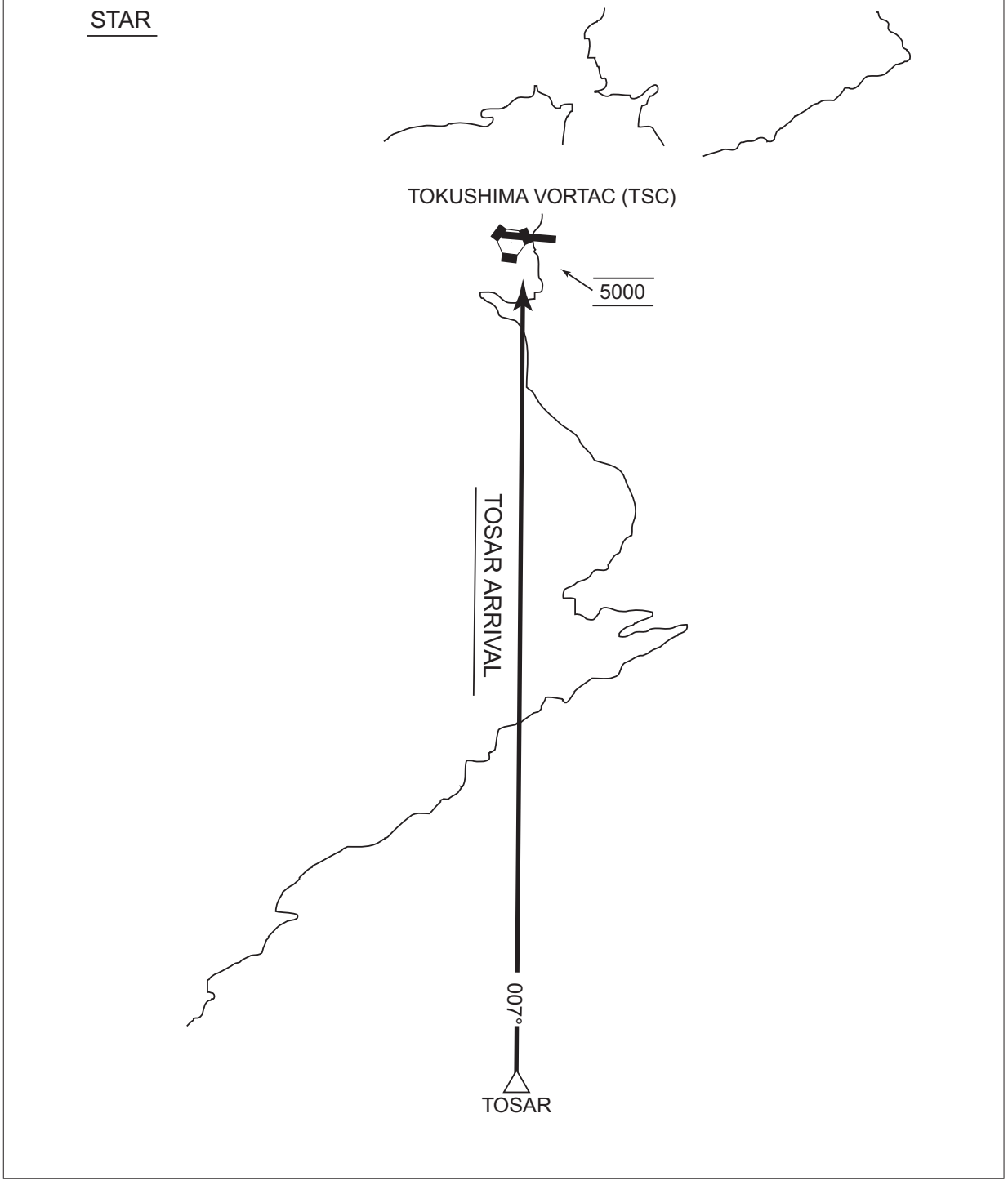
STANDARD ARRIVAL CHART-INSTRUMENT

RJOS / TOKUSHIMA STAR

STAR

TOSAR ARRIVAL

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



CHANGE : TOKUSHIMA NDB(TS) abolished.

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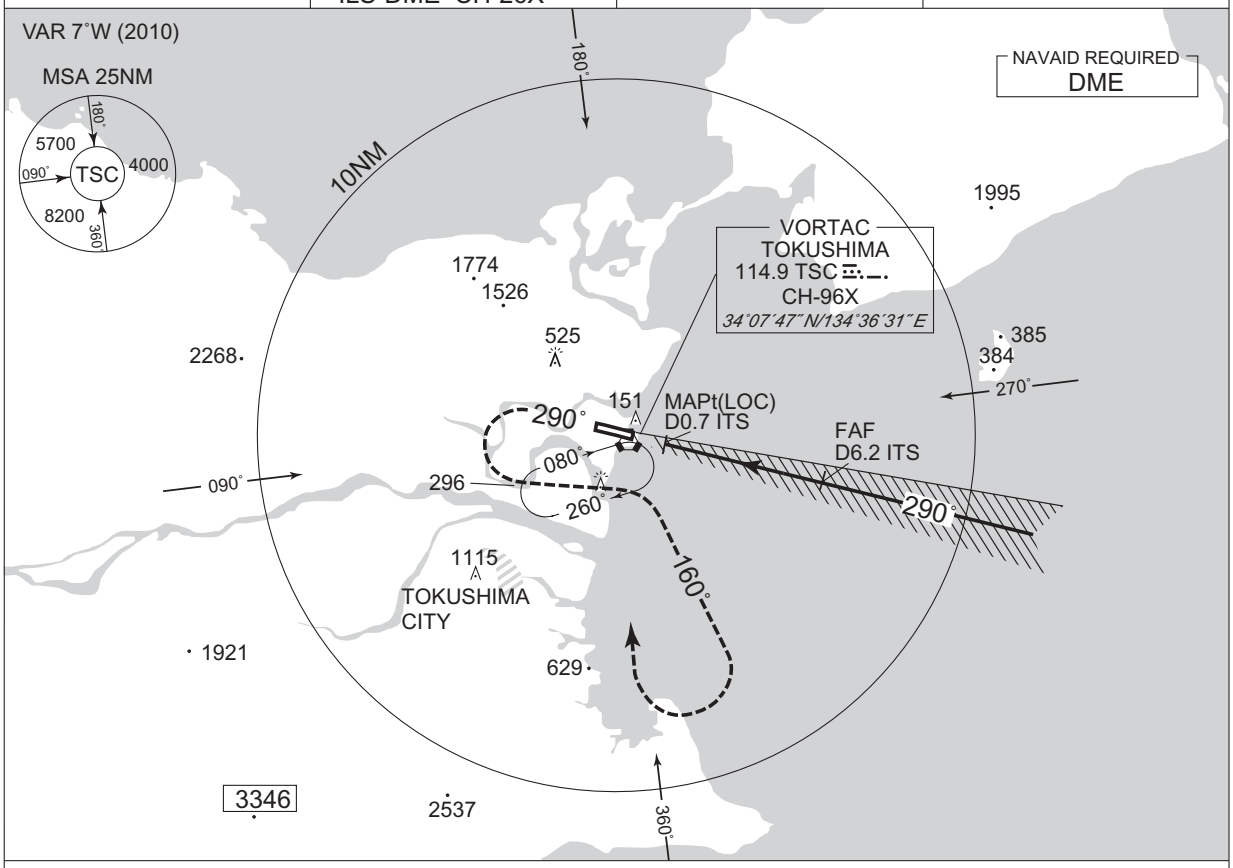
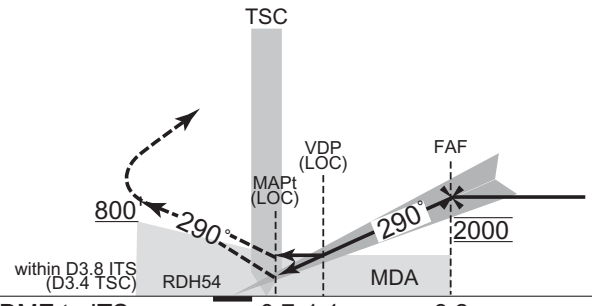
INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA — ILS Z or LOC Z RWY 29

TOKUSHIMA APP	ILS-LOC	TOKUSHIMA TOWER	GCA AVBL
120.1 - 124.0 261.2 - 284.6	108.9 ITS ILS-GP 329.3 ILS-DME CH-26X	118.0 - 126.2 233.8 - 236.8	CALL TOKUSHIMA APP



MISSED APPROACH
Climb on 290˚ to 800FT or above within ITS 3.8DME(TSC3.4DME), turn left and climb via TSC R160 to 3000FT, then turn right within TSC 10.0DME, proceed to TSC VORTAC and hold.
Contact TOKUSHIMA APP.



MINIMA — THR elev. 37 — AD elev. 37

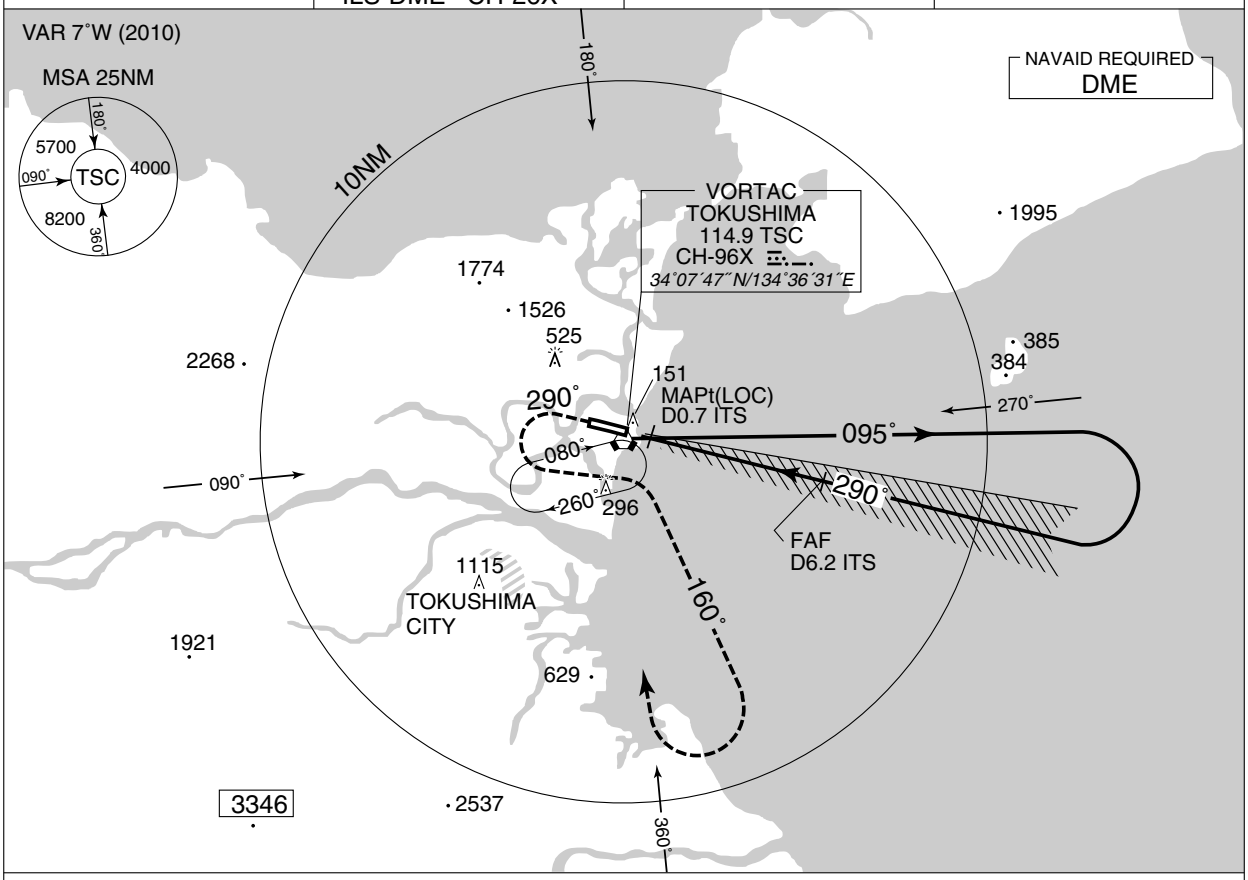
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	237 (200)	1000	340 (303)	1500	580 (543)	1600
B						
C				1800	600 (563)	2400
D				2000	840 (803)	3200

CHANGE : TOKUSHIMA NDB(TS) abolished.

INSTRUMENT APPROACH CAHRT

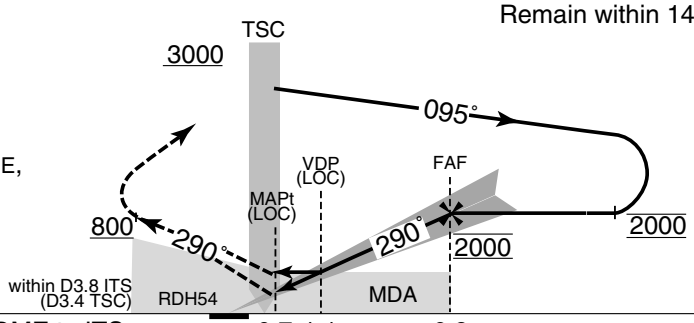
RJOS / TOKUSHIMA — ILS Y or LOC Y RWY 29

TOKUSHIMA APP	ILS-LOC	TOKUSHIMA TOWER	GCA AVBL
120.1 - 124.0 261.2 - 284.6	108.9 ITS ⠶ ILS-GP 329.3 ILS-DME CH-26X	118.0 - 126.2 233.8 - 236.8	CALL TOKUSHIMA APP



MISSED APPROACH

Climb on 290° to 800FT or above within ITS 3.8DME (TSC 3.4DME), turn left and climb via TSC R160 to 3000FT, then turn right within TSC 10DME, proceed to TSC VORTAC and hold.
Contact TOKUSHIMA APP.



DME to ITS	0.7	1.1	6.2
NM to THR	0.5	0.9	6.0

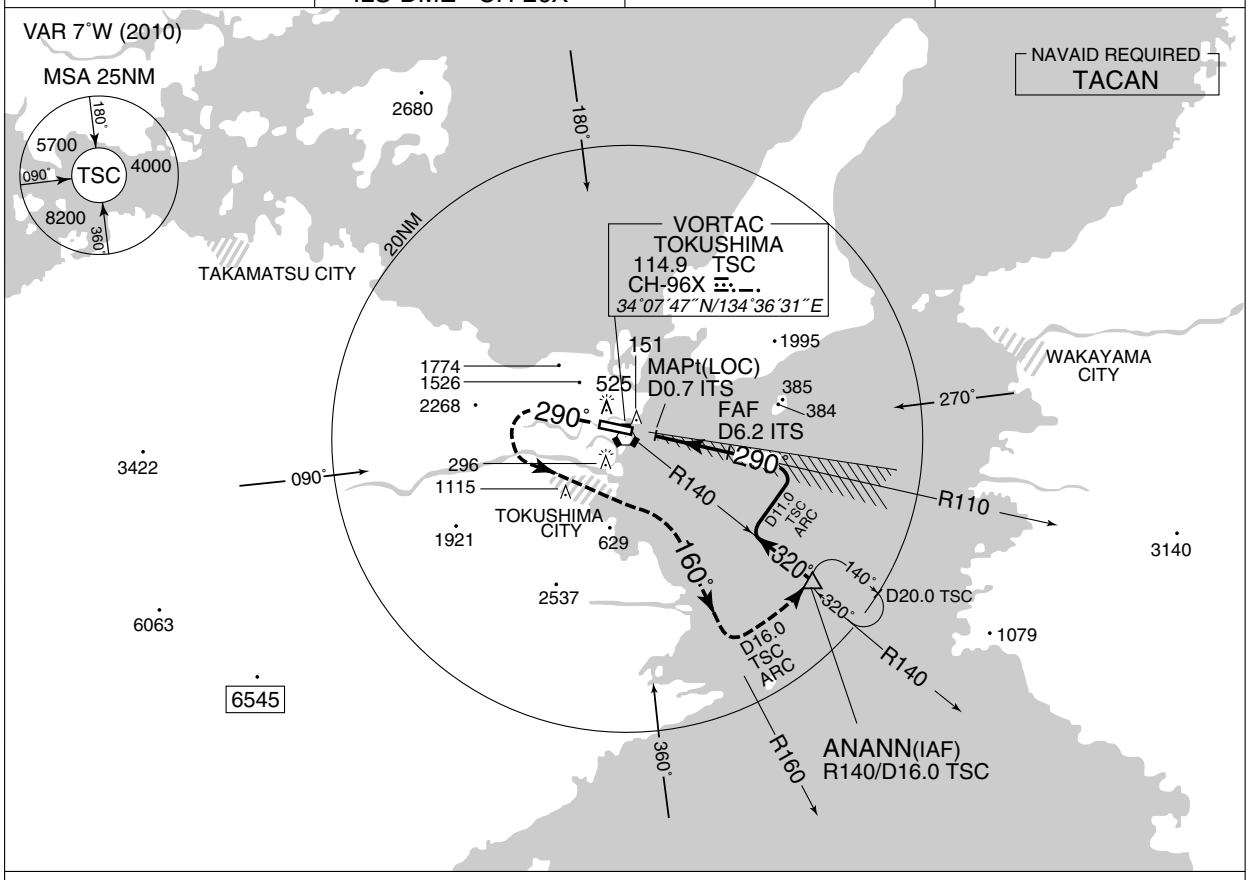
MINIMA THR elev. 37 AD elev. 37

CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	237 (200)	1000	340 (303)	1500	580 (543)	1600
B						
C				1800	600 (563)	2400
D				2000	840 (803)	3200

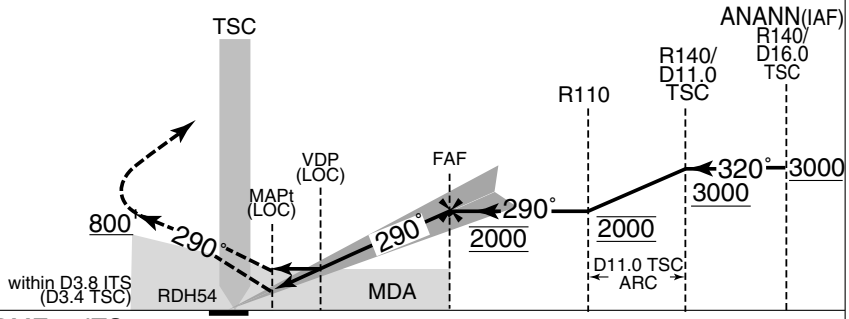
INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA — ILS W or LOC W RWY 29

TOKUSHIMA APP	ILS-LOC	TOKUSHIMA TOWER	GCA AVBL
120.1 - 124.0	108.9 ITS	118.0 - 126.2	CALL
261.2 - 284.6	ILS-GP 329.3	233.8 - 236.8	TOKUSHIMA APP
	ILS-DME CH-26X		



MISSED APPROACH
Climb on 290˚ to 800FT or above within ITS 3.8DME (TSC 3.4DME), then turn left and climb via TSC R160 to intercept and proceed via TSC 16.0DME counterclockwise ARC to ANANN IAF and hold at 3000FT.
Contact TOKUSHIMA APP.



DME to ITS	0.7	1.1	6.2	11.0
NM to THR	0.5	0.9	6.0	10.8

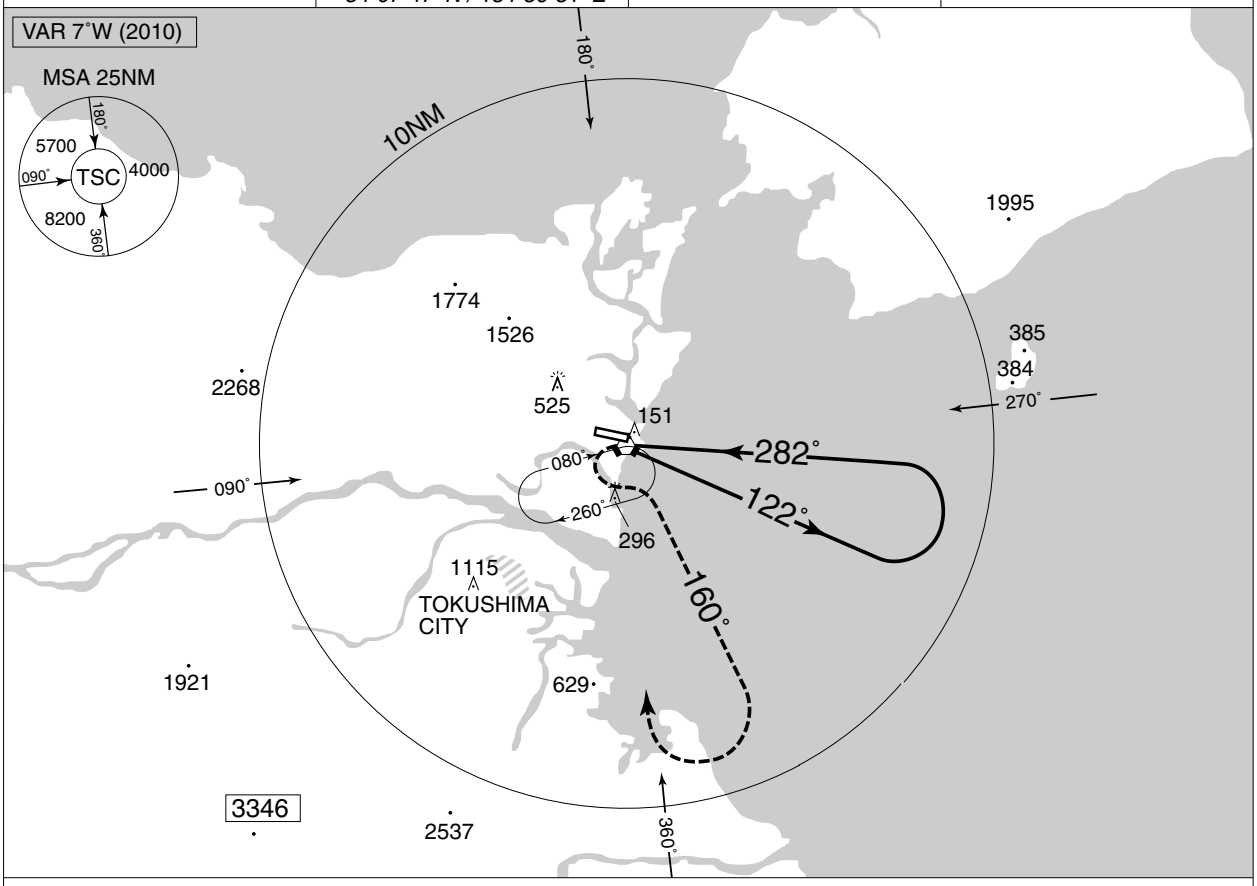
MINIMA THR elev. 37 AD elev. 37

CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	237 (200)	1000	340 (303)	1500	580 (543)	1600
B						
C				1800	600 (563)	2400
D				2000	840 (803)	3200

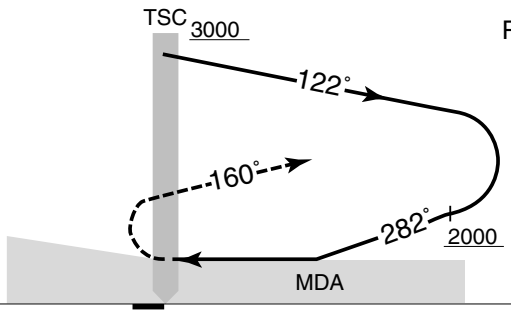
INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA VOR RWY 29

TOKUSHIMA APP	TOKUSHIMA VORTAC	TOKUSHIMA TOWER	GCA AVBL
120.1 - 124.0	114.9 TSC	118.0 - 126.2	CALL
261.2 - 284.6	CH-96X	233.8 - 236.8	TOKUSHIMA APP
	34°07′47″N / 134°36′31″E		



MISSED APPROACH
At TSC VORTAC, turn left and climb via TSC R160 to 3000FT, then turn right within 10NM of TSC, proceed to TSC VORTAC and hold.
Contact TOKUSHIMA APP.



Remain within 10NM

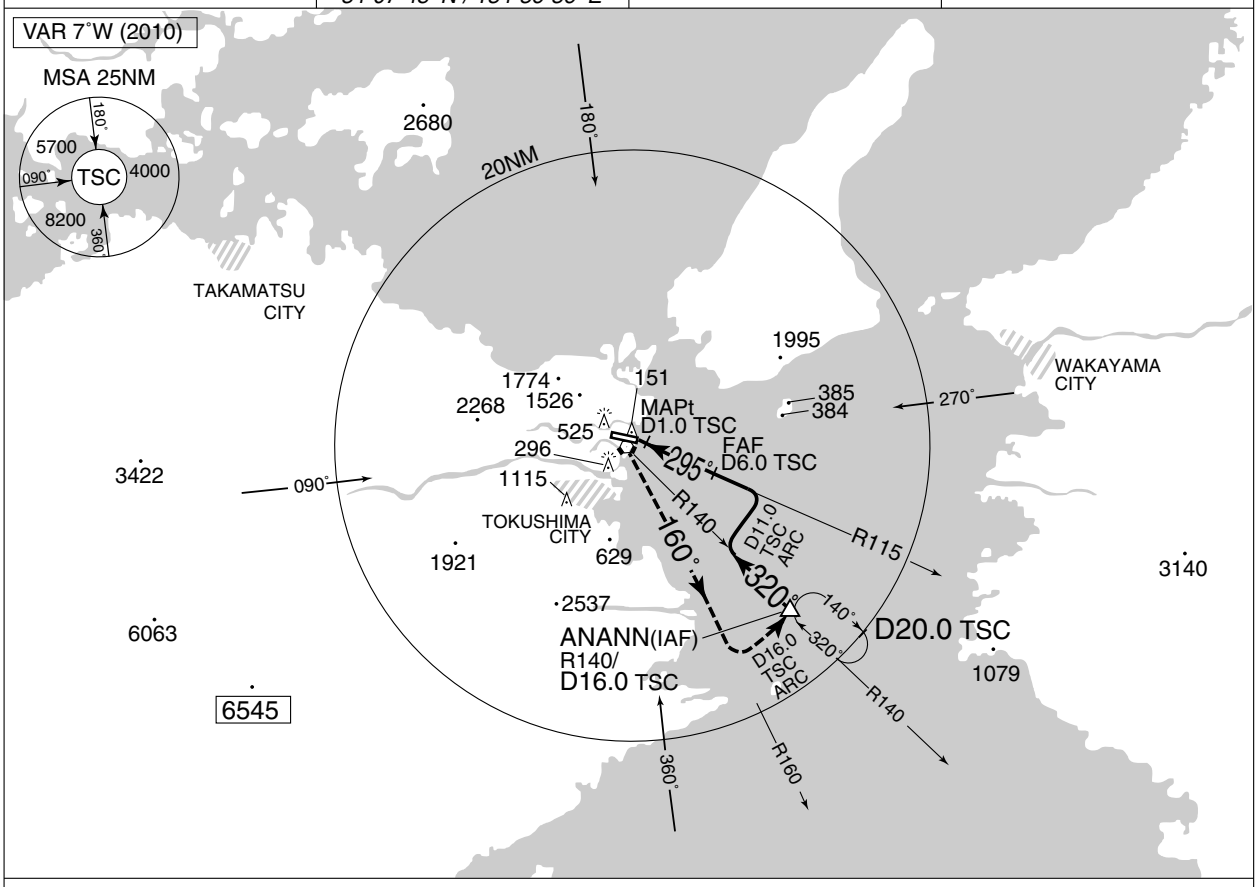
MINIMA THR elev. 37 AD elev. 37

CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	580 (543)	1500	580 (543)	1600
B				
C		2000	600 (563)	2400
D			840 (803)	3200

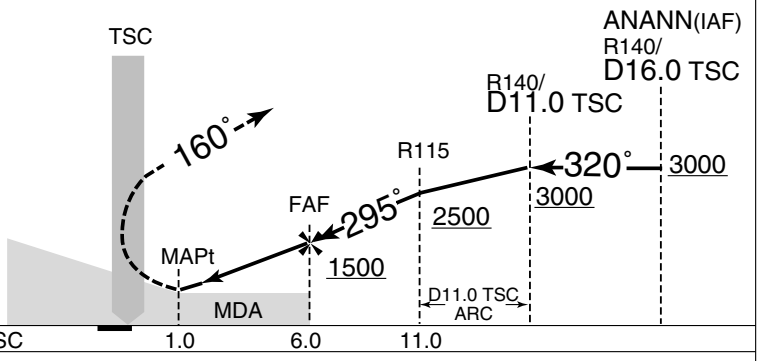
INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA TACAN A

TOKUSHIMA APP	TOKUSHIMA TACAN	TOKUSHIMA TOWER	GCA AVBL
120.1 - 124.0	CH-96X TSC Ξ:⚊.	118.0 - 126.2	CALL
261.2 - 284.6	*34˚07´48˝N / 134˚36´36˝E*	233.8 - 236.8	TOKUSHIMA APP



MISSED APPROACH
1.0DME prior to TSC VORTAC, turn left and climb via TSC R160 to intercept and proceed via TSC 16.0DME counterclockwise ARC to ANANN and hold at 3000FT.
Contact TOKUSHIMA APP.



MINIMA THR elev. 37 AD elev. 37

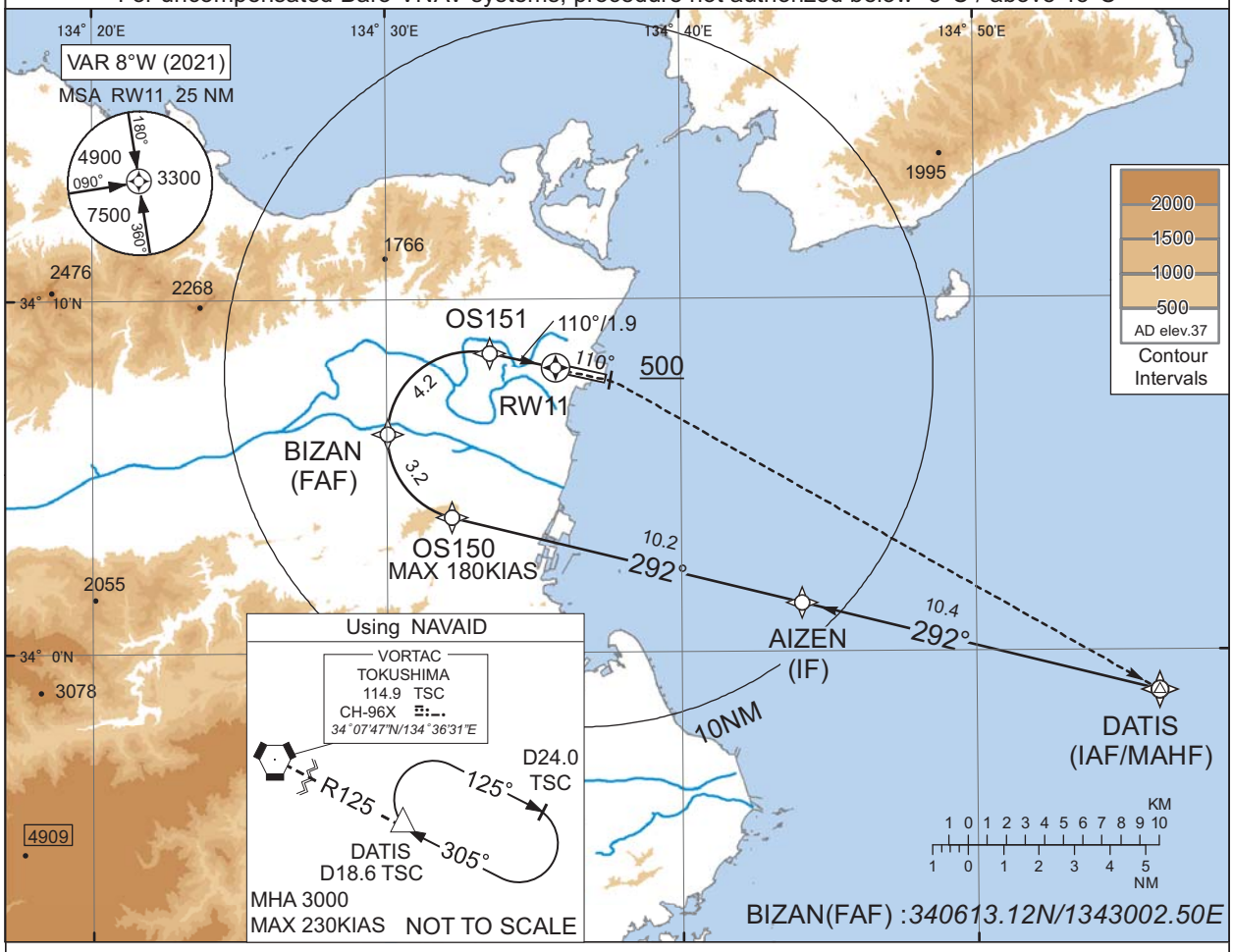
CAT	CIRCLING	
	MDA(H)	VIS
A	580 (543)	1600
B		
C	600 (563)	2400
D	840 (803)	3200

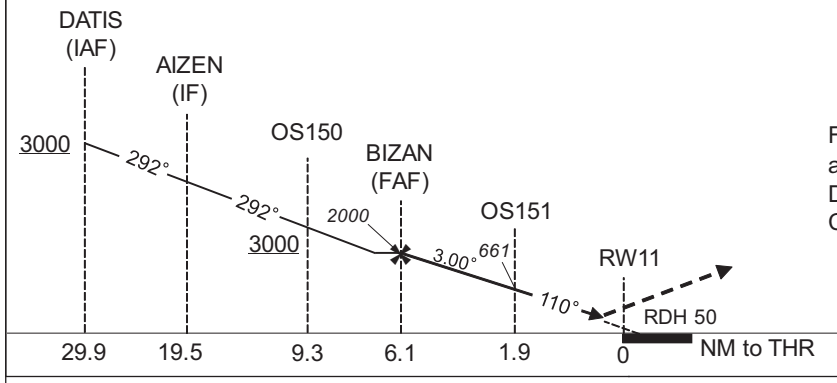
INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA — RNP Z RWY11(AR)

TOKUSHIMA APP 120.1 - 124.0 261.2 - 284.6	RNP AR RF required.	TOKUSHIMA TOWER 118.0 - 126.2 233.8 - 236.8	GCA AVBL CALL TOKUSHIMA APP

For uncompensated Baro-VNAV systems, procedure not authorized below -5°C / above 45°C





MISSED APPROACH

From RW11 on track 110°, at or above 500FT turn right, direct to DATIS and hold at 3000FT. Contact TOKUSHIMA APP.

Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 6		AD elev. 37	
CAT	RNP 0.15		RNP 0.30	
	DA(H)	CMV	DA(H)	CMV
A	-	-	-	-
B				
C	306(300)	1400	362(356)	1400
D		1600		1600

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

Authorization Required

CHANGE : PROC renamed. Requirement for RNP.

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*		

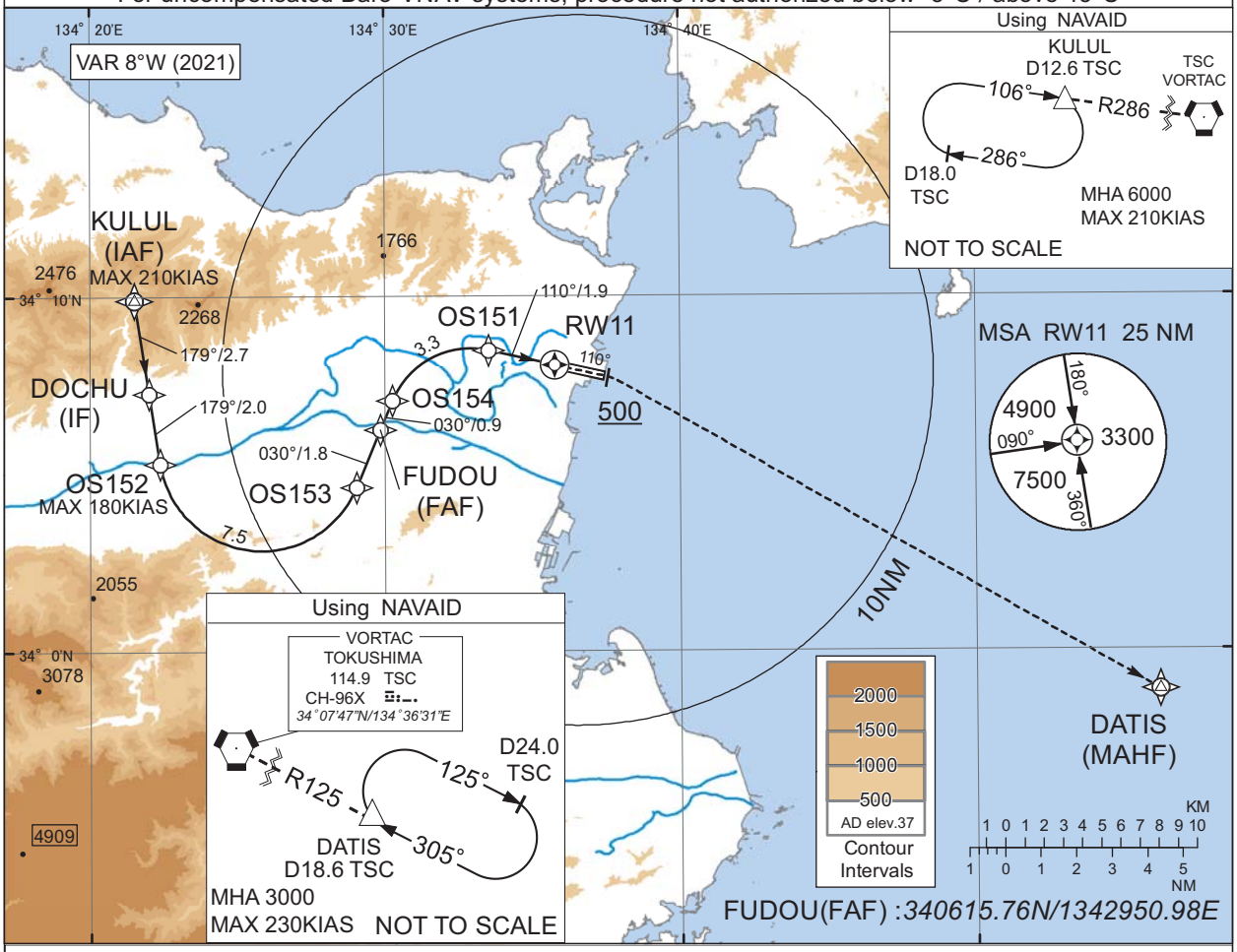
CHANGE : PROC renamed.

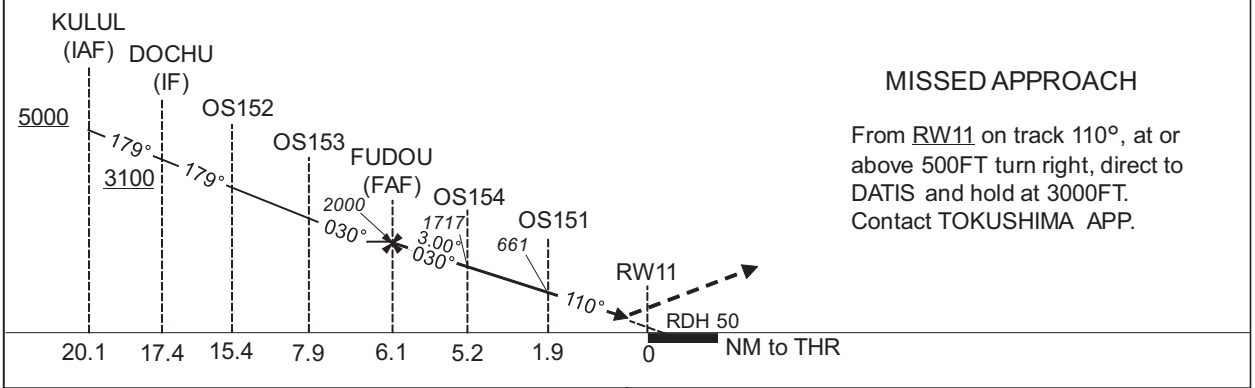
INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA — RNP Y RWY11(AR)

TOKUSHIMA APP	RNP AR	TOKUSHIMA TOWER	GCA AVBL
120.1 - 124.0 261.2 - 284.6	RF required.	118.0 - 126.2 233.8 - 236.8	CALL TOKUSHIMA APP

For uncompensated Baro-VNAV systems, procedure not authorized below -5°C / above 45°C





MISSED APPROACH

From RW11 on track 110°, at or above 500FT turn right, direct to DATIS and hold at 3000FT.
Contact TOKUSHIMA APP.

Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 6		AD elev. 37	
CAT	RNP 0.15		RNP 0.30	
	DA(H)	CMV	DA(H)	CMV
A	-	-	-	-
B				
C	306(300)	1400	362(356)	1400
D		1600		1600

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

Authorization Required

CHANGE : PROC renamed. Requirement for RNP.

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*		

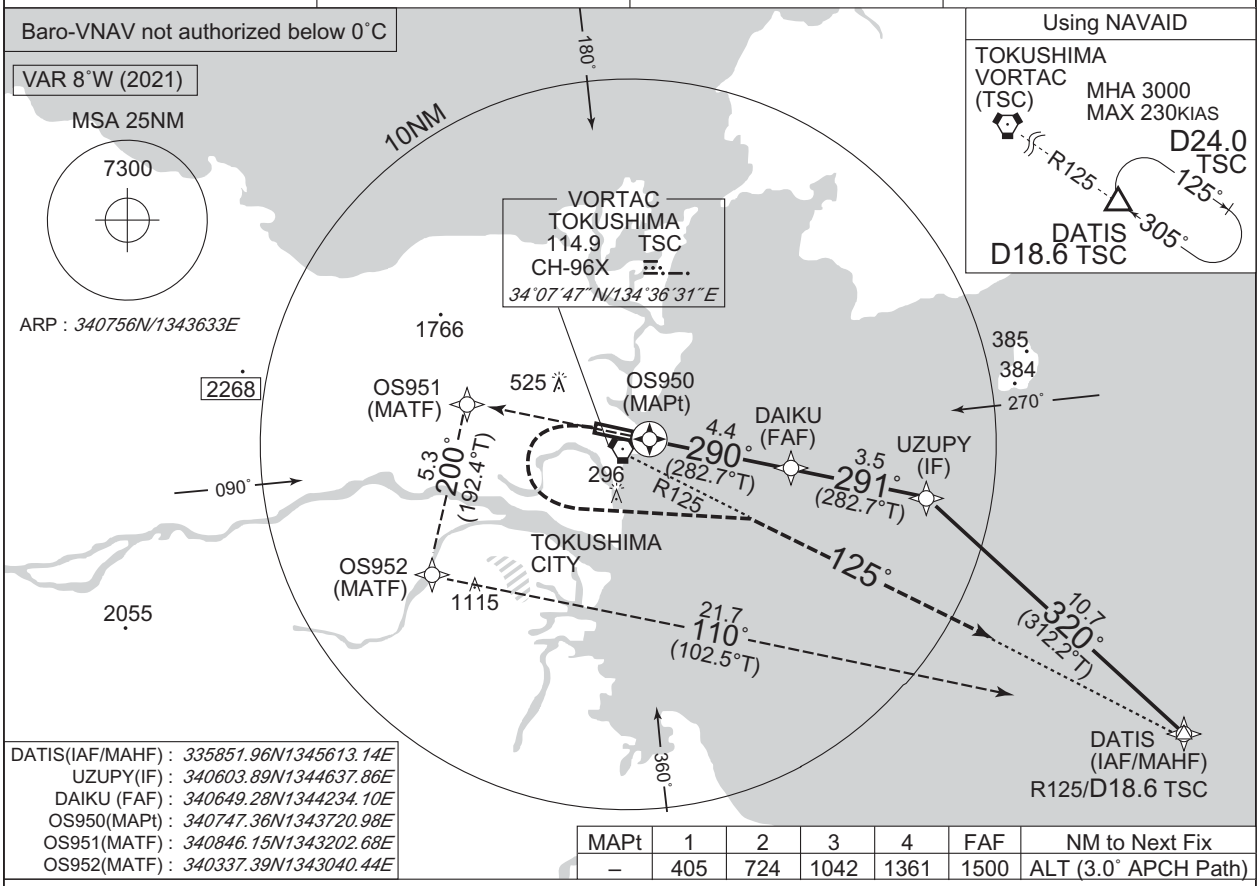
CHANGE : PROC renamed.

INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA

RNP Z RWY29

TOKUSHIMA APP	RNP APCH	TOKUSHIMA TOWER	GCA AVBL
120.1 - 124.0 261.2 - 284.6		118.0 - 126.2 233.8 - 236.8	CALL TOKUSHIMA APP

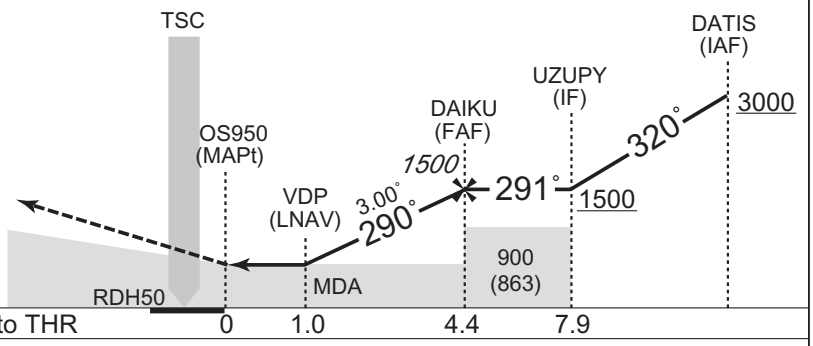


DATIS(IAF/MAHF) : *335851.96N1345613.14E*
UZUPY(IF) : *340603.89N1344637.86E*
DAIKU (FAF) : *340649.28N1344234.10E*
OS950(MAPt) : *340747.36N1343720.98E*
OS951(MATF) : *340846.15N1343202.68E*
OS952(MATF) : *340337.39N1343040.44E*

MAPt	1	2	3	4	FAF	NM to Next Fix
–	405	724	1042	1361	1500	ALT (3.0˚ APCH Path)

MISSED APPROACH
Climb to 3000FT direct to OS951,
to OS952, to DATIS and hold.
Contact TOKUSHIMA APP.

(For using VORTAC)
Climb on HDG290˚ to 800FT,
turn left climb to 3000FT via TSC
R125 to DATIS and hold.
Contact TOKUSHIMA APP.



Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 37 AD elev. 37

CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	380 (343)	1500	380 (343)	1500	580 (543)	1600
B						
C		1800		1800	600 (563)	2400
D		2000		2000	840 (803)	3200

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

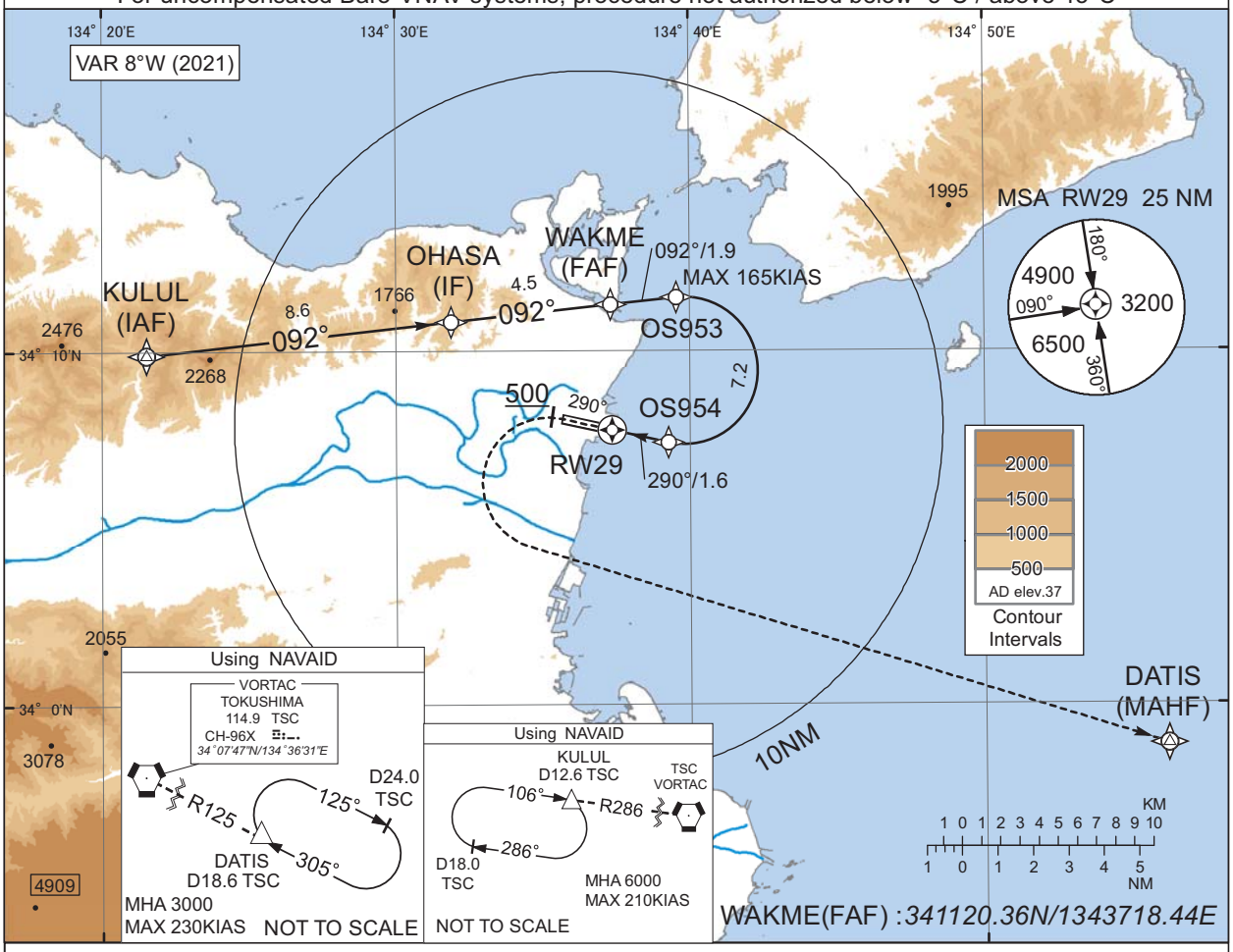
CHANGE:PROC renamed. Requirement for RNP.

INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA — RNP Y RWY29(AR)

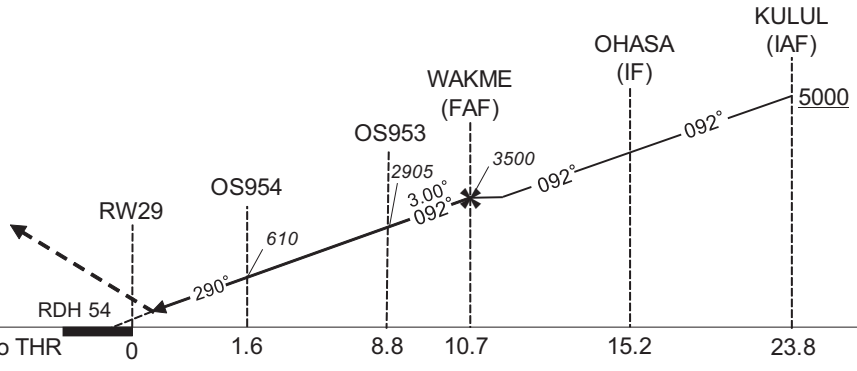
TOKUSHIMA APP	RNP AR	TOKUSHIMA TOWER	GCA AVBL
120.1 - 124.0 261.2 - 284.6	RF required.	118.0 - 126.2 233.8 - 236.8	CALL TOKUSHIMA APP

For uncompensated Baro-VNAV systems, procedure not authorized below -5°C / above 45°C



MISSED APPROACH

From RW29 on track 290°, at or above 500FT turn left, direct to DATIS and hold at 3000FT.
Contact TOKUSHIMA APP.



Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 37		AD elev. 37	
CAT	RNP 0.27		RNP 0.30	
	DA(H)	RVR/CMV	DA(H)	RVR/CMV
A	-	-	-	-
B				
C	337(300)	1800	364(327)	1800
D		2000		2000

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

Authorization Required

CHANGE : PROC renamed. Requirement for RNP.

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

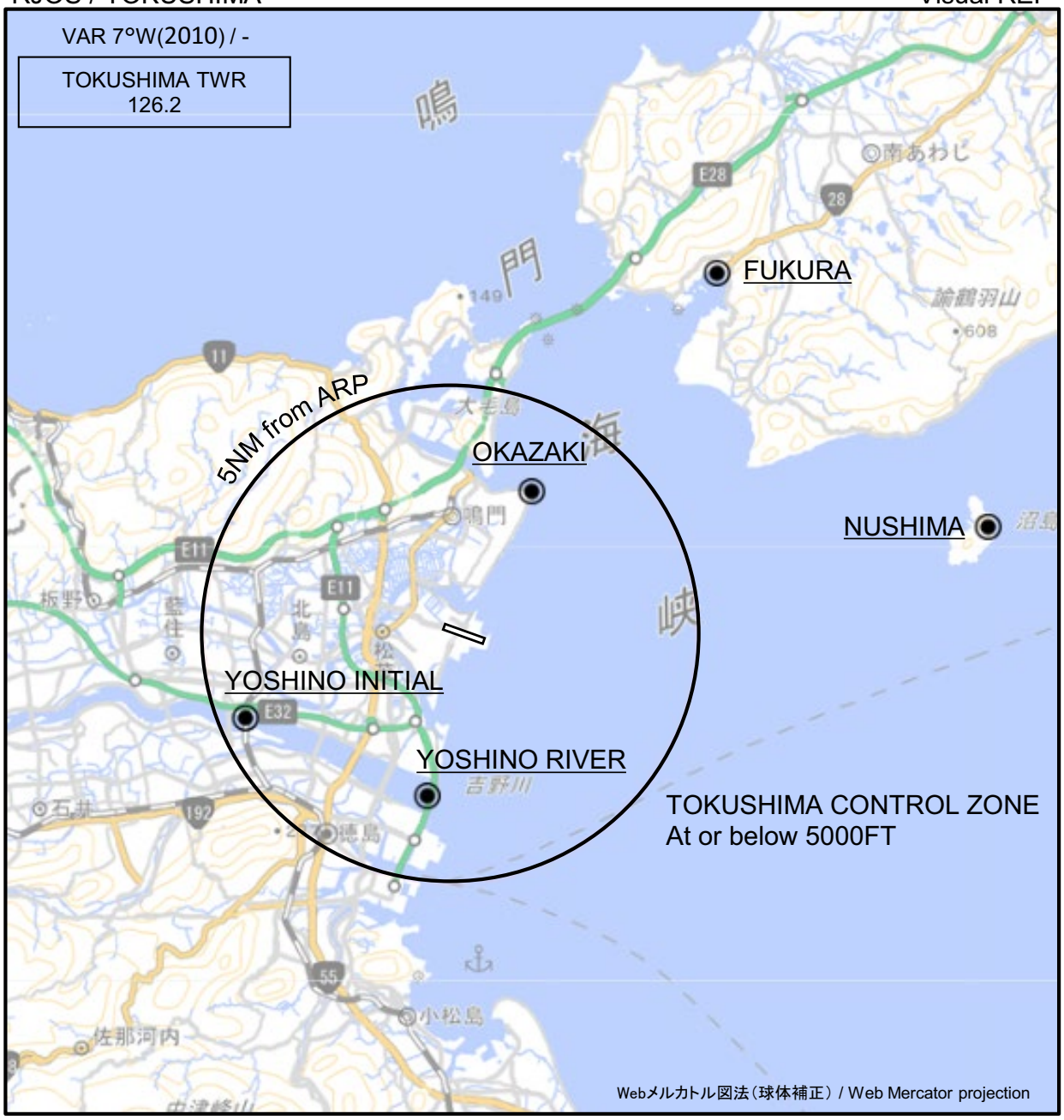
Waypoint Coordinates

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

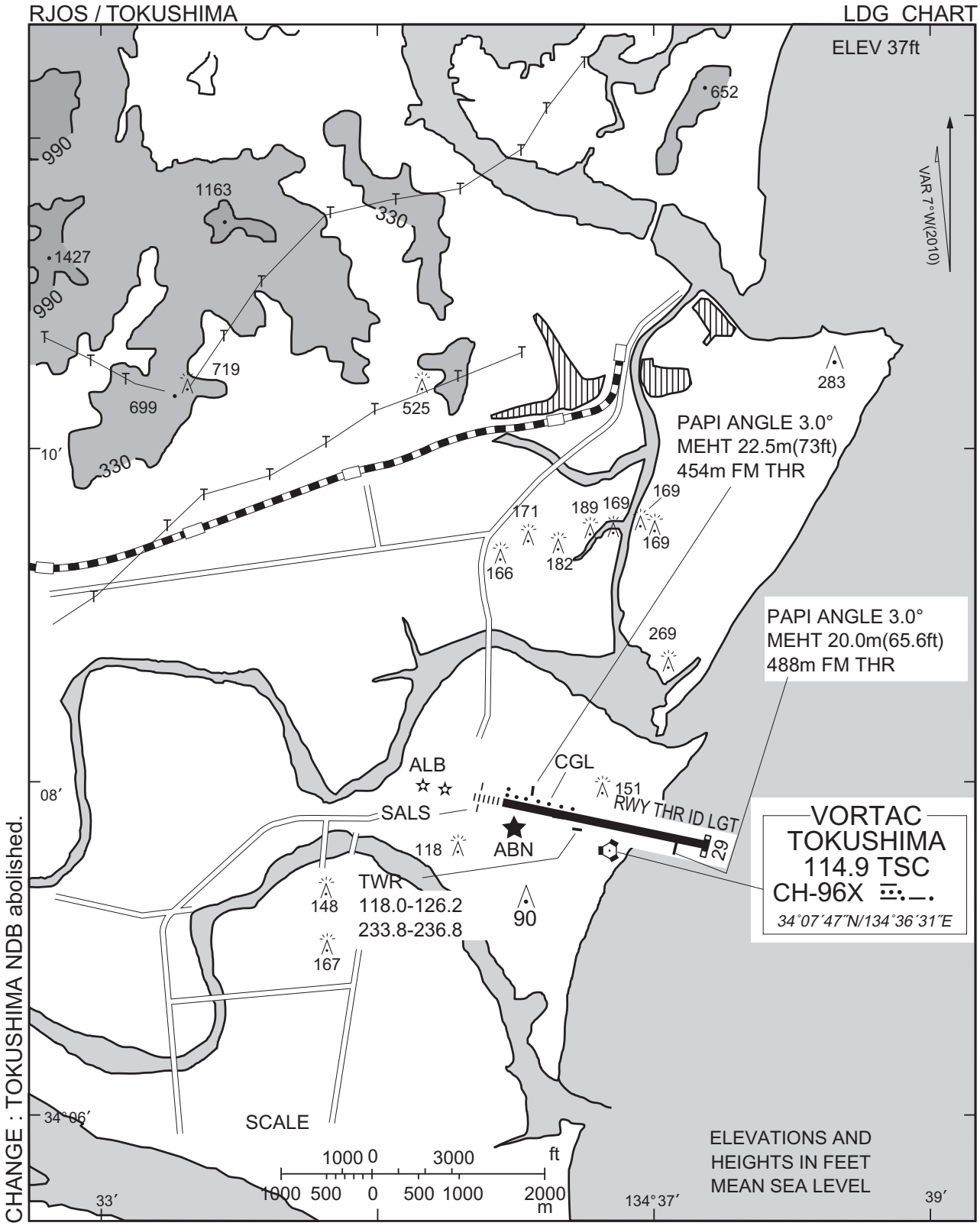
Visual REP



※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).

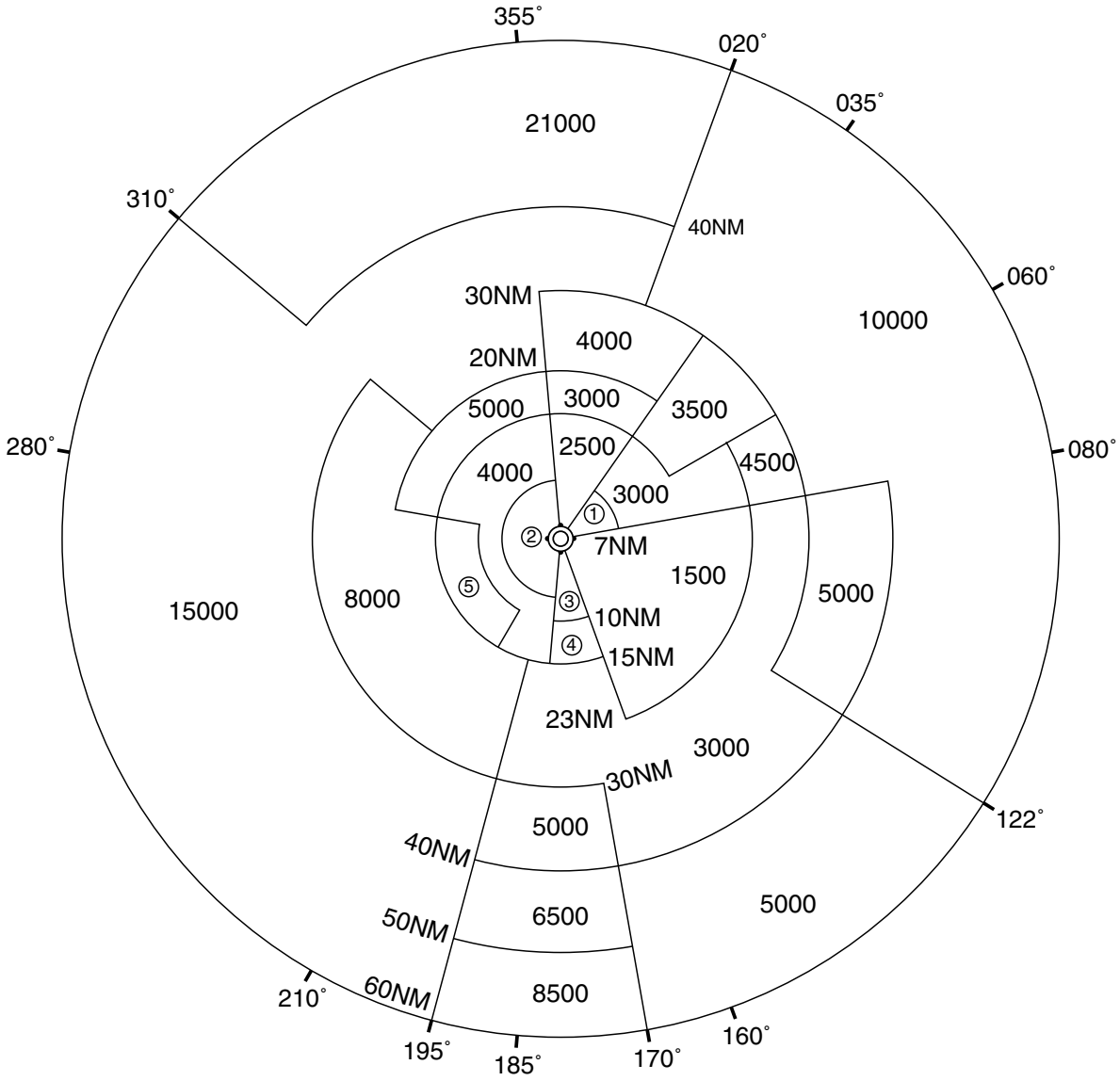
CHANGE : Map updated. BRG/DIST from ARP.

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
LDG CHART
ELEV 37ft
652
990
1163
330
1427
990
719
699
525
283
VAR 7°W(2010)
PAPI ANGLE 3.0°
MEHT 22.5m(73ft)
454m FM THR
10′
330
171
189
169
169
169
166
182
269
PAPI ANGLE 3.0°
MEHT 20.0m(65.6ft)
488m FM THR
ALB
CGL
151
08′
SALS
RWY THR ID LGT
20
VORTAC
TOKUSHIMA
114.9 TSC
CH-96X
34˚07′47″N/134˚36′31″E
118
ABN
TWR
118.0-126.2
233.8-236.8
148
90
167
CHANGE : TOKUSHIMA NDB abolished.
34°06′
SCALE
1000 0 3000 ft
1000 500 0 500 1000 2000 m
ELEVATIONS AND
HEIGHTS IN FEET
MEAN SEA LEVEL
33′
134°37′
39′

RJOS / TOKUSHIMA Minimum Vectoring Altitude CHART

VAR 7˚W (2013)



① 2000
② 3000
③ 1700
④ 2100
⑤ 4500

CENTER：*340751N/1343552E* (RADAR SITE)

INTENTIONALLY LEFT BLANK