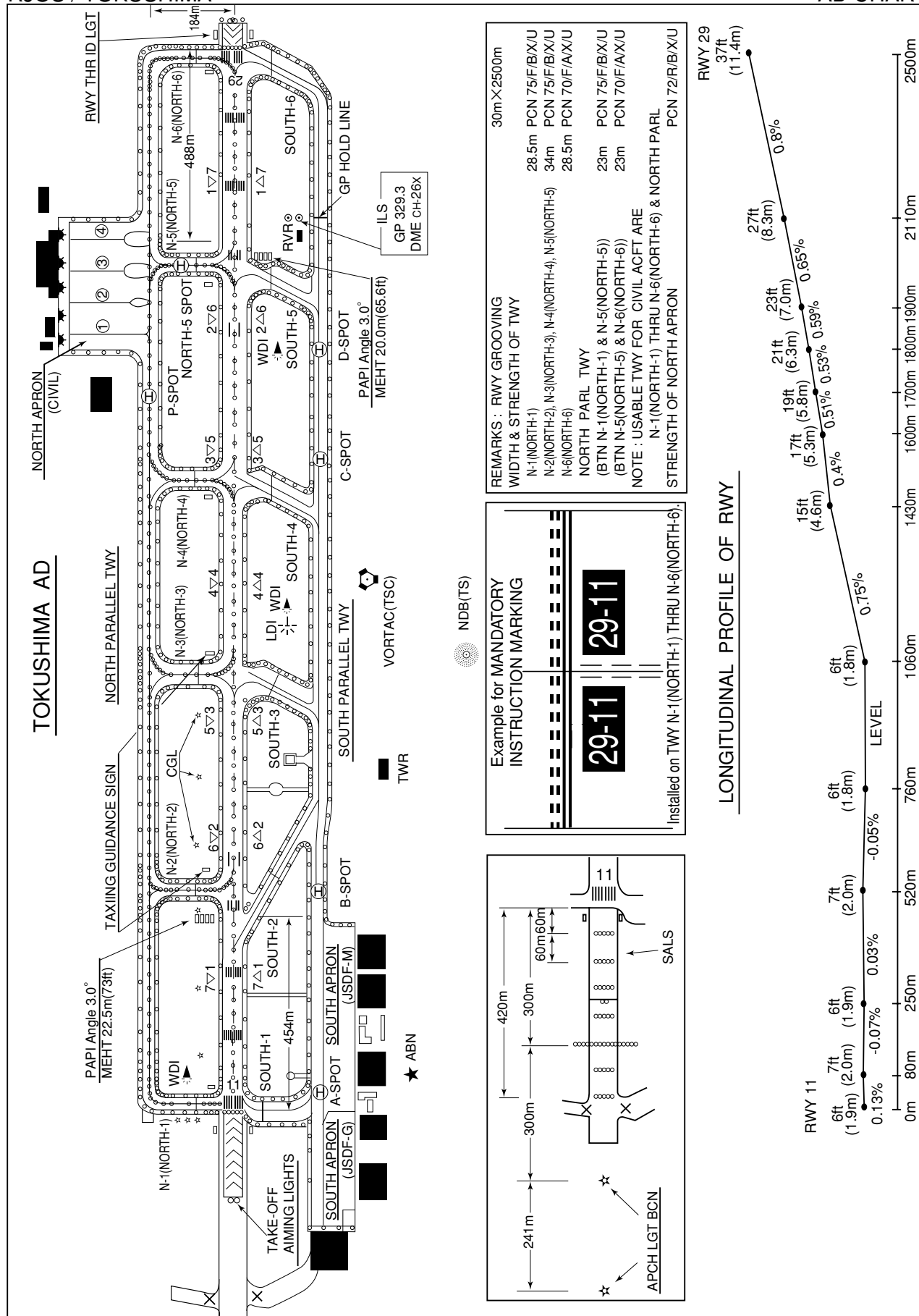


## R JOS / TOKUSHIMA

## AD CHART

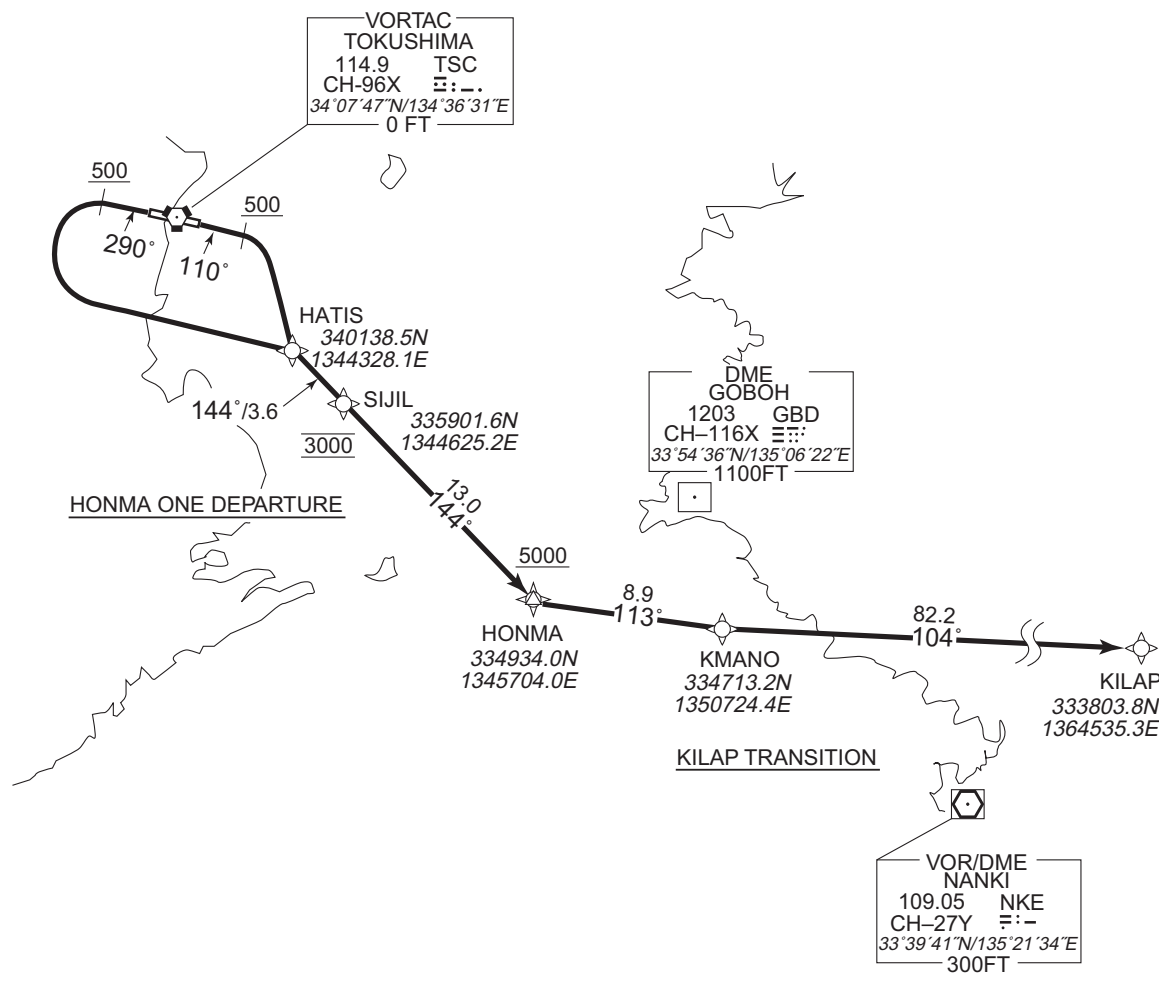


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## STANDARD DEPARTURE CHART-INSTRUMENT

## RJOS / TOKUSHIMA

## RNAV SID and TRANSITION

HONMA ONE DEPARTURE / KILAP TRANSITION		RNAV1
<p>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.</p> <p>2 ) RADAR service required.</p>	Critical DME	RWY29 AJD : 3.0NM to HATIS – HATIS KILAP TRANSITION AJD : 4.0NM to KMANO – KMANO
	DME GAP	—
	Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1
<p>VAR 8°W (2018)</p> 		
<p><u>HONMA ONE DEPARTURE</u></p> <p>RWY11 : Climb on HDG110° at or above 500FT, turn right direct to HATIS, to SIJIL at 3000FT, to HONMA at or above 5000FT.</p> <p>RWY29 : Climb on HDG290° at or above 500FT, turn left direct to HATIS, to SIJIL at 3000FT, to HONMA at or above 5000FT.</p> <p>Note RWY29 : 5.0% climb gradient required up to 1200FT. OBST ALT 1115FT located at 4.9NM FM end of RWY29.</p>		
<p><u>KILAP TRANSITION</u></p> <p>From HONMA at or above 5000FT, to KMANO, to KILAP.</p>		

## 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

RJOS / TOKUSHIMA

SID

TOSAR FOUR DEPARTURE

RWY 29 : Turn left within 3NM....

RWY 11 : Turn right....

....climb via TSC R160 (160° from TS NDB) to TSC 13.0DME (13NM of TS NDB), turn right to intercept and proceed via TSC R187 (187° from TS NDB) to TOSAR.

Cross TSC 13.0DME (13NM of TS NDB) at 3000FT, cross TSC 20.0DME (20NM of TS NDB) at 6000FT, cross TOSAR at assigned altitude.

\* See Note.

TOKUSHIMA REVERSAL FIVE DEPARTURE

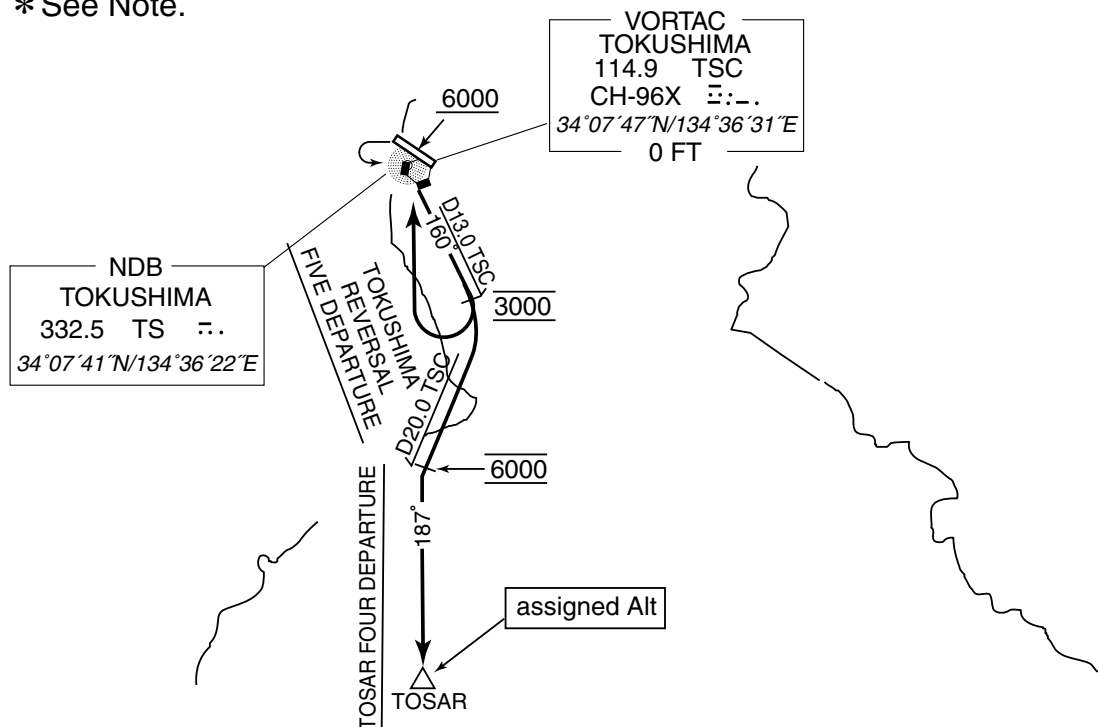
RWY 29 : Turn left within 3NM....

RWY 11 : Turn right....

.... climb via TSC R160 (160° from TS NDB) to TSC 13.0DME (13NM of TS NDB), then turn right proceed to TSC VORTAC (TS NDB).

Cross TSC 13.0DME (13NM of TS NDB) at 3000FT, cross TSC VORTAC (TS NDB) at or above 6000FT.

\* See Note.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJOS / TOKUSHIMA

SID

MIYAZU EIGHT DEPARTURE

RWY 29 : Turn left within 3NM....

RWY 11 : Turn right....

....cross TS NDB at or above 1000FT, climb via 026° from TS NDB until intercepting ITE R297, climb via ITE 22.2DME clockwise ARC to intercept and proceed via YME R170 to YME VOR/DME.

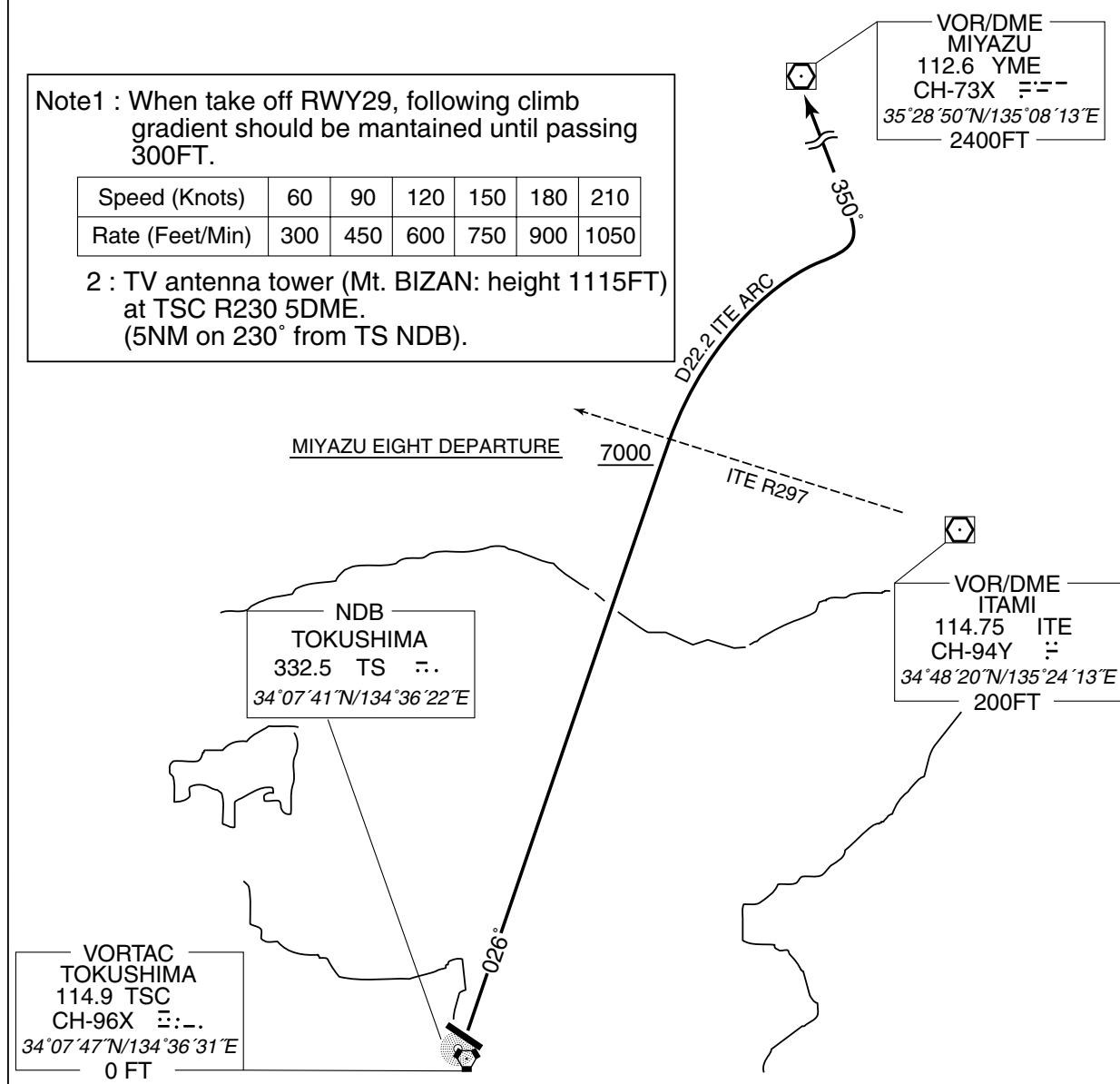
Cross ITE R297 at or above 7000FT.

\* See Note.

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.  
(5NM on 230° from TS NDB).



STANDARD DEPARTURE CHART -INSTRUMENT

RJOS / TOKUSHIMA

SID and TRANSITION

MISAKI ONE DEPARTURE

RWY29 : Turn left within 3NM,...

RWY11 : Turn right,...

...climb via TSC R143 (143° from TS NDB) to HONMA.

Cross TSC 12.0DME (12NM of TS NDB) at 3000FT, cross HONMA at or above 8000FT.

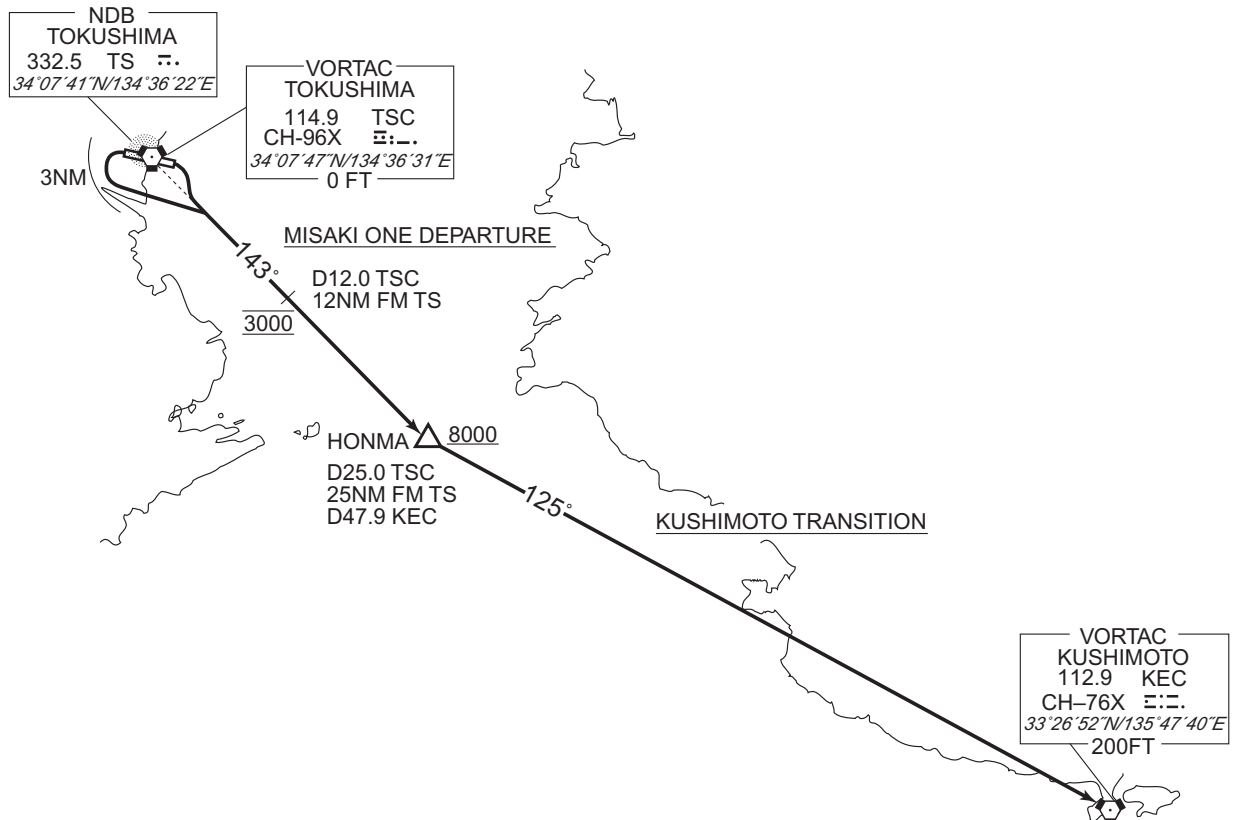
Note1 : When take off RWY29, following climb gradient should be maintained until passing 300FT

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

Note2 : TV antenna tower (Mt. BIZAN : height 1115FT) at TSC R230 5DME.  
(5NM on 230° from TS NDB).

KUSHIMOTO TRANSITION

From over HONMA, via KEC R305 to KEC VORTAC.



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STANDARD ARRIVAL CHART-INSTRUMENT

RJOS / TOKUSHIMA

STAR

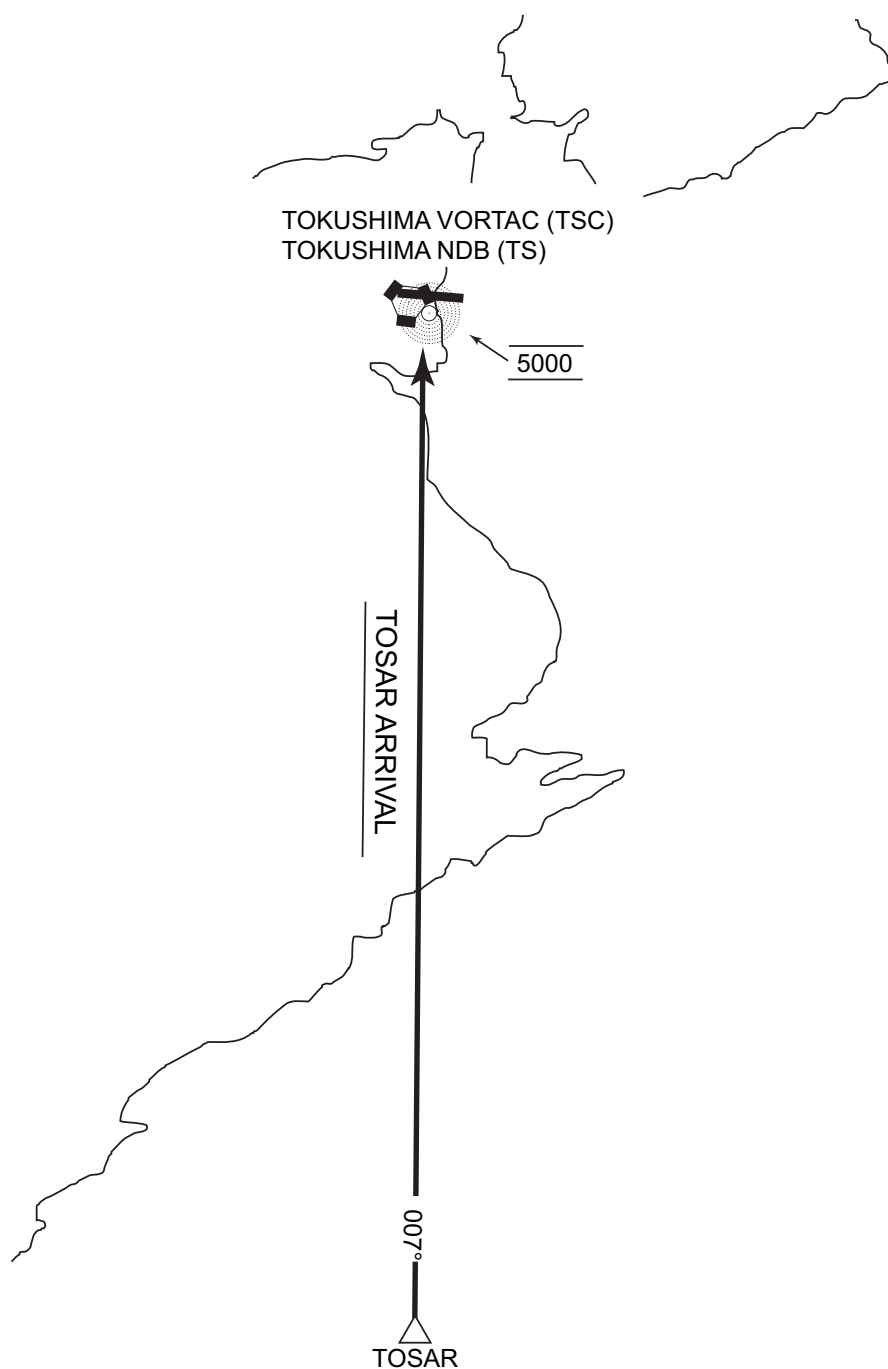
**STAR**

TOSAR ARRIVAL

From over TOSAR, proceed via TSC R-187 to TSC VORTAC (007DEG to TS NDB).

Cross TSC VORTAC (TS NDB) at 5,000 feet.

STAR



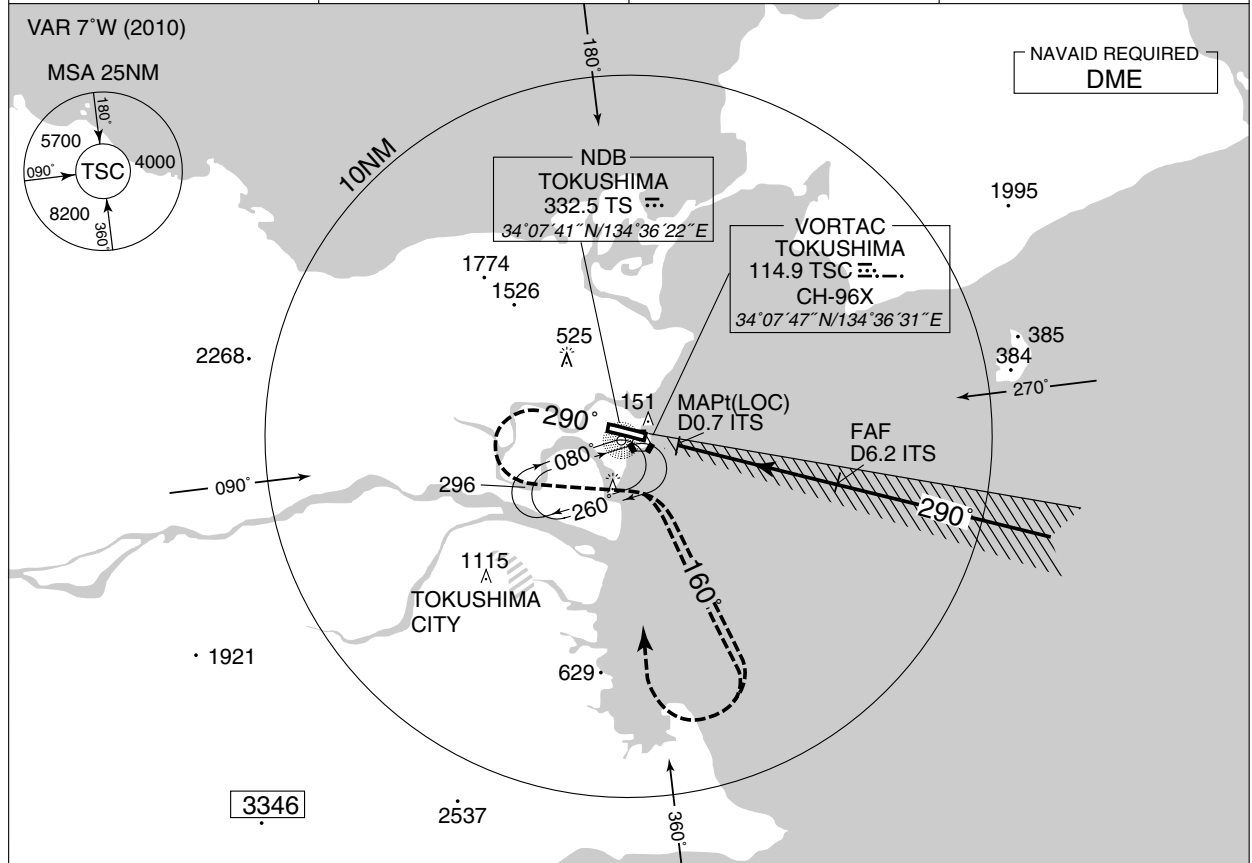
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INSTRUMENT APPROACH CHART

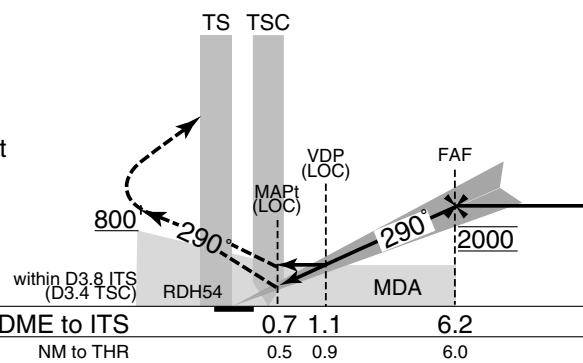
RJOS / TOKUSHIMA

ILS Z or LOC Z RWY 29

TOKUSHIMA APP 120.1 - 124.0 261.2 - 284.6	ILS-LOC 108.9 ITS 329.3 ILS-GP 329.3 ILS-DME CH-26X	TOKUSHIMA TOWER 118.0 - 126.2 233.8 - 236.8	GCA AVBL CALL TOKUSHIMA APP
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**MISSED APPROACH**  
Climb on 290° to 800FT or above within ITS 3.8DME(TSC3.4DME), turn left and climb via TSC R160(on160° from TS NDB) to 3000FT, then turn right within TSC 10DME(10nm of TS NDB), proceed to TSC VORTAC(TS NDB) and hold.  
Contact TOKUSHIMA APP.



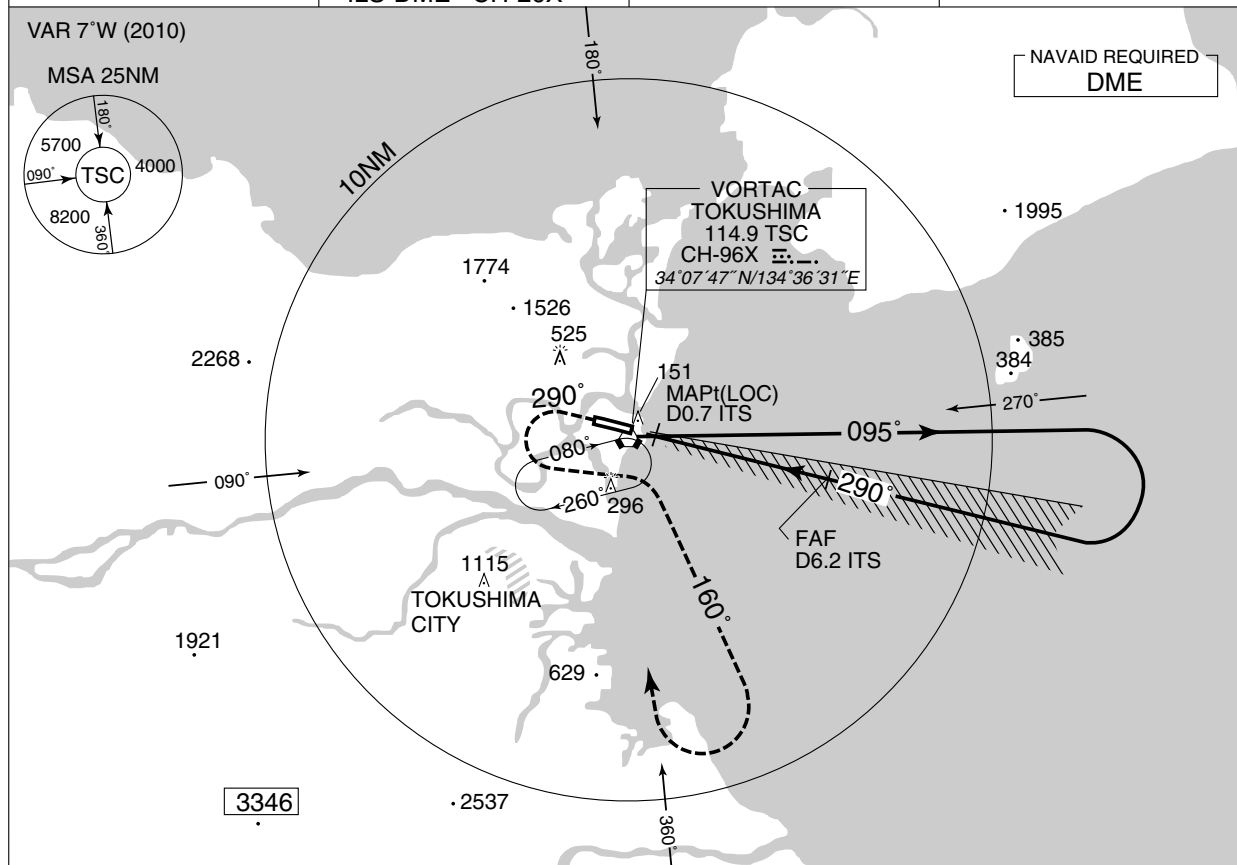
MINIMA		THR elev. 37		AD elev. 37		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	237 (200)	1000	340 (303)	1500	580 (543)	1600
B				1800	600 (563)	2400
C						
D						

## INSTRUMENT APPROACH CAHRT

## RJOS / TOKUSHIMA

## ILS Y or LOC Y RWY 29

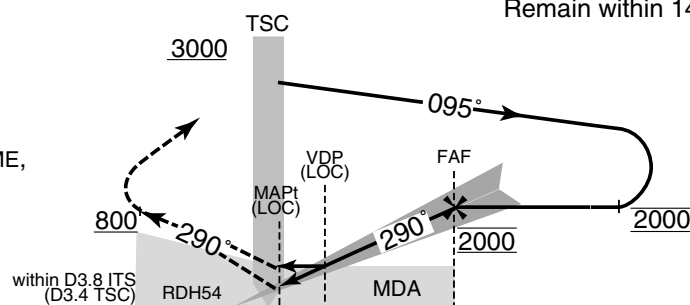
TOKUSHIMA APP 120.1 - 124.0 261.2 - 284.6	ILS-LOC 108.9 ITS #. ILS-GP 329.3 ILS-DME CH-26X	TOKUSHIMA TOWER 118.0 - 126.2 233.8 - 236.8	GCA AVBL CALL TOKUSHIMA APP
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## MISSED APPROACH

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.

Remain within 14nm



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

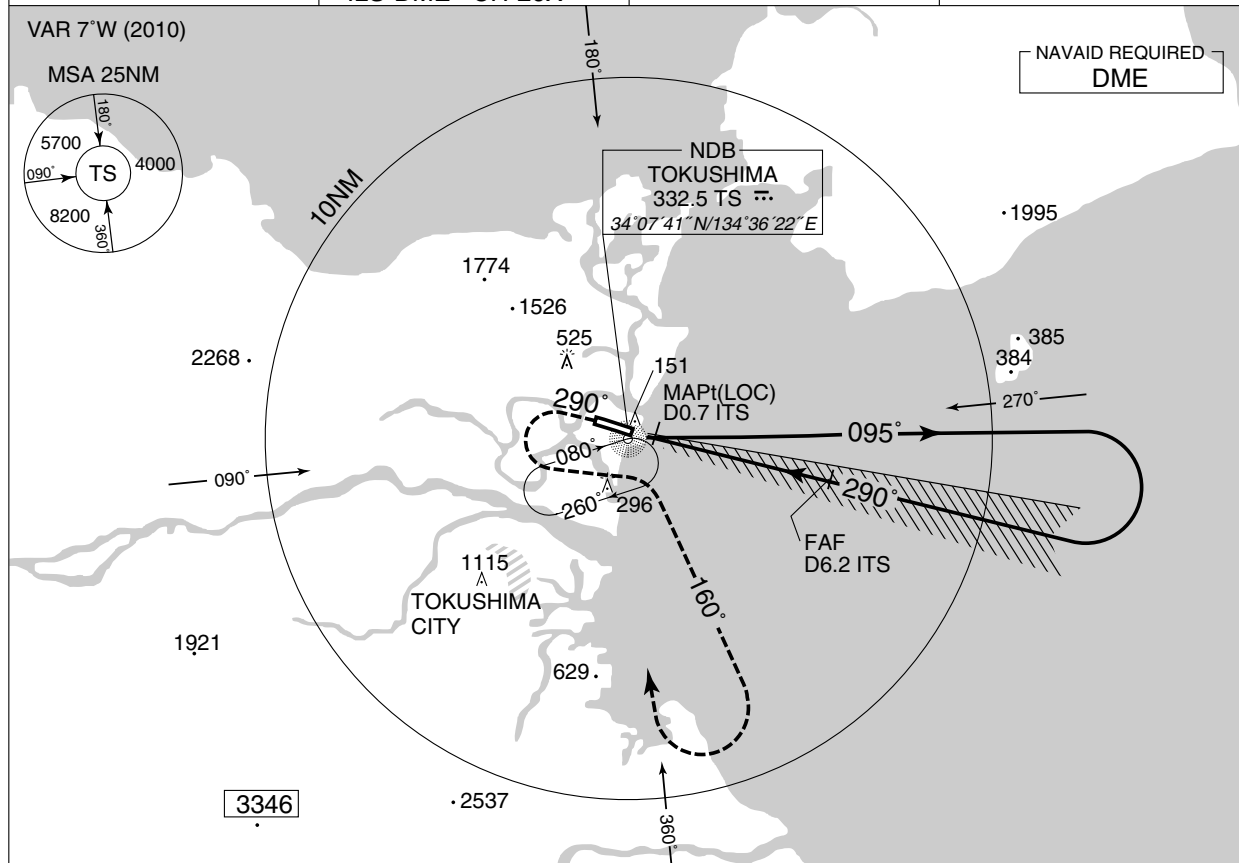
MINIMA		THR elev. 37	AD elev. 37			
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	237 (200)	1000	340 (303)	1500	580 (543)	1600
B				1800	600 (563)	2400
C				2000	840 (803)	3200
D						

INSTRUMENT APPROACH CHART

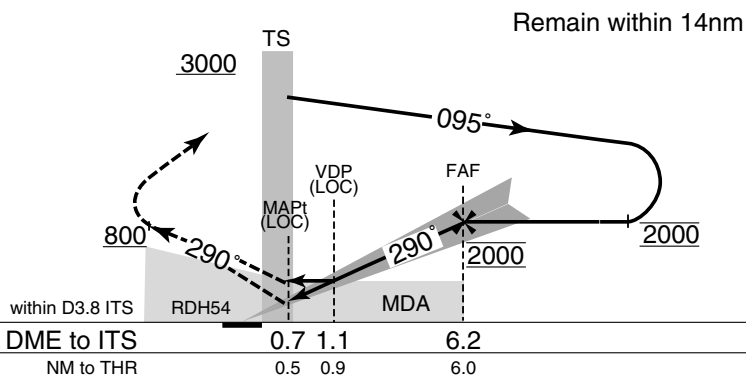
RJOS / TOKUSHIMA

ILS X or LOC X RWY 29

TOKUSHIMA APP 120.1 - 124.0 261.2 - 284.6	ILS-LOC 108.9 ITS #. ILS-GP 329.3 ILS-DME CH-26X	TOKUSHIMA TOWER 118.0 - 126.2 233.8 - 236.8	GCA AVBL CALL TOKUSHIMA APP
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**MISSED APPROACH**  
Climb on 290° to 800FT or above within ITS 3.8DME, turn left and climb via 160° from TS NDB to 3000FT, then turn right within 10nm of TS NDB, proceed to TS NDB and hold.  
Contact TOKUSHIMA APP.



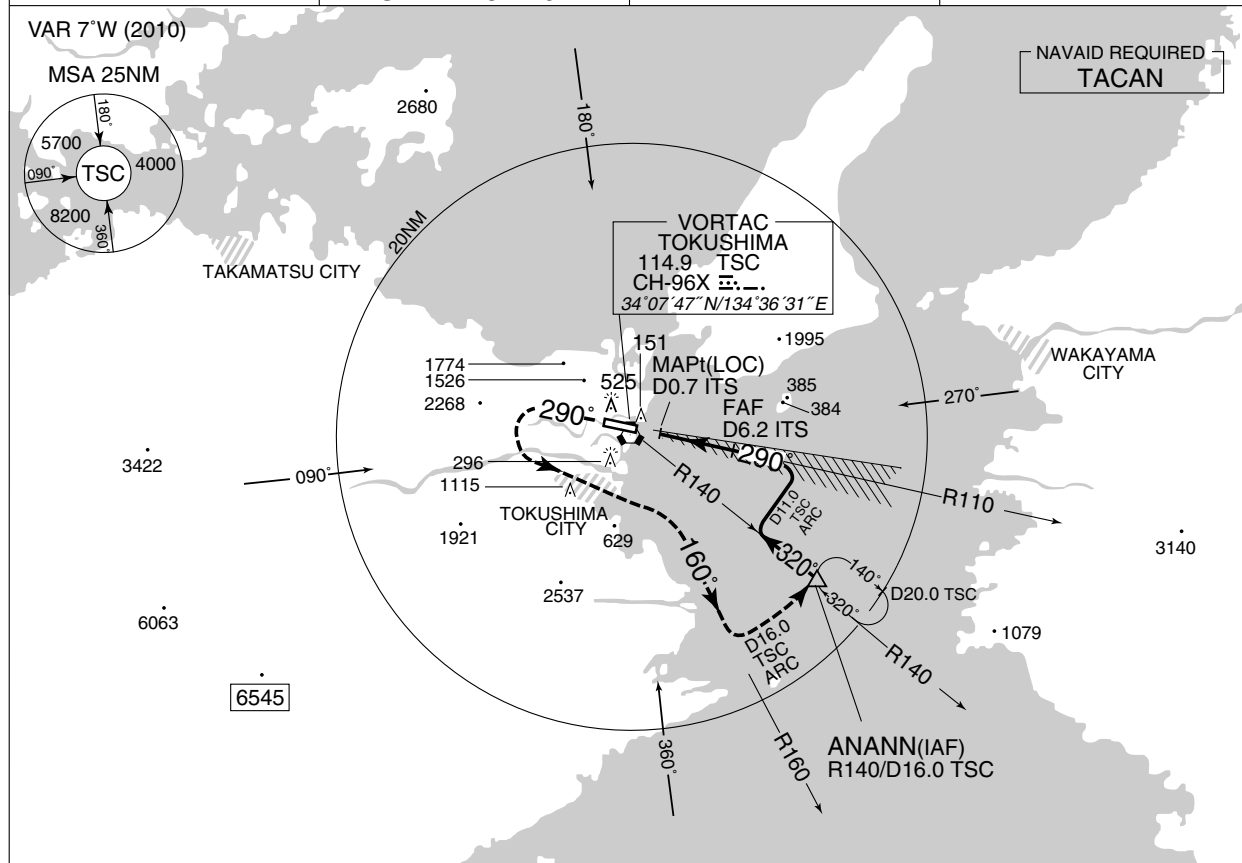
MINIMA		THR elev. 37		AD elev. 37		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	237 (200)	1000	340 (303)	1500	580 (543)	1600
B						
C				1800	600 (563)	2400
D				2000	840 (803)	3200

## INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA

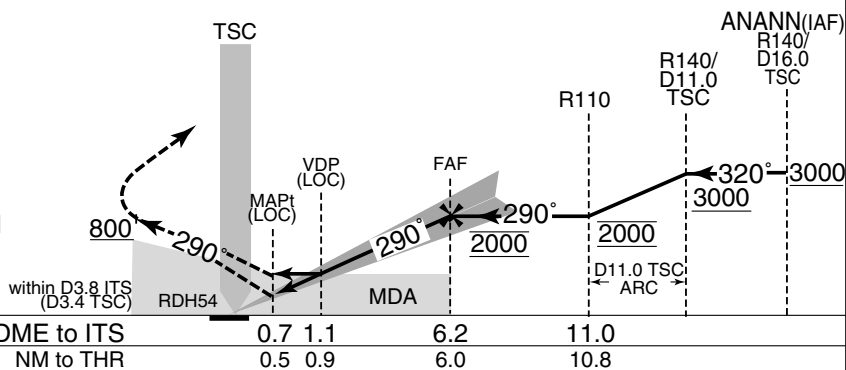
ILS W or LOC W RWY 29

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

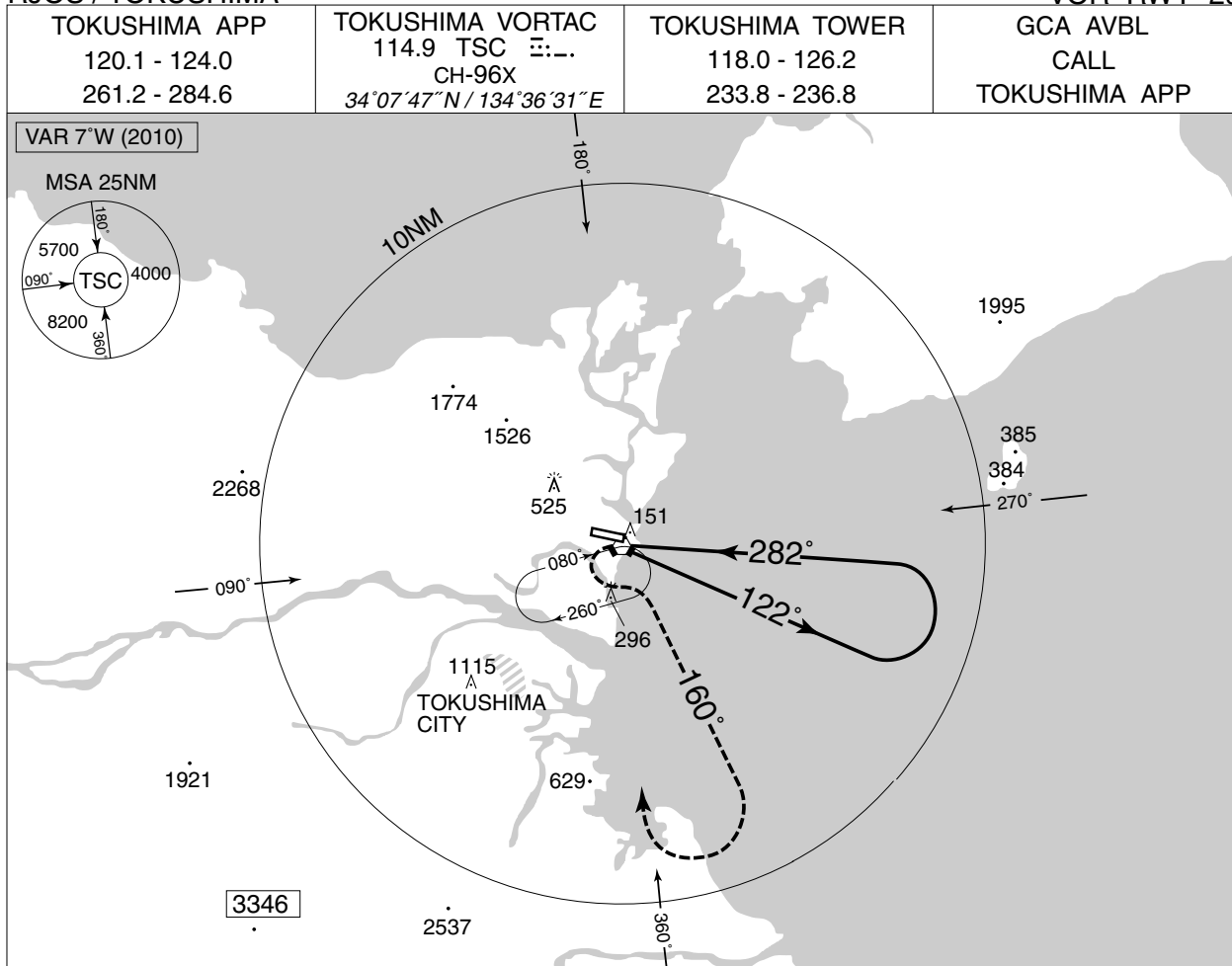


DME to ITS		0.7	1.1	6.2	11.0	
NM to THR		0.5	0.9	6.0	10.8	
MINIMA		THR elev. 37		AD elev. 37		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	237 (200)	1000	340 (303)	1500	580 (543)	1600
B				1800	600 (563)	2400
C				2000	840 (803)	3200
D						

INSTRUMENT APPROACH CHART

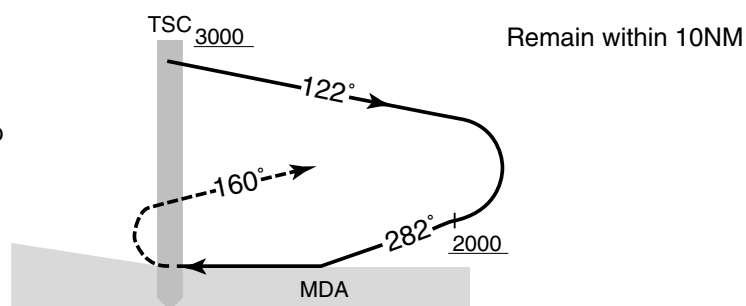
RJOS / TOKUSHIMA

VOR RWY 29



**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.

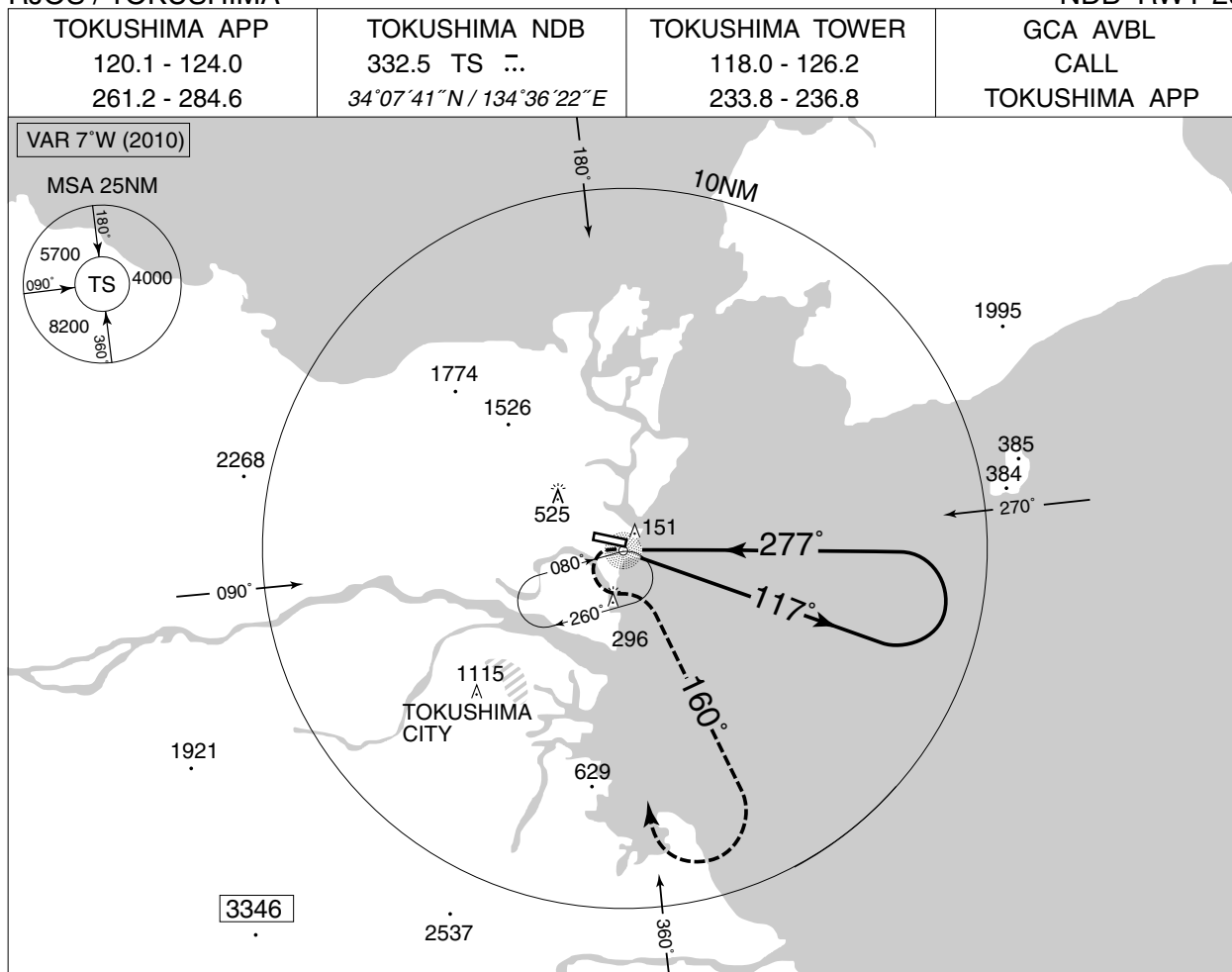


MINIMA		THR elev. 37	AD elev. 37	
CAT			CIRCLING	
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	580 (543)	1500	580 (543)	1600
B				
C		2000	600 (563)	2400
D			840 (803)	3200

INSTRUMENT APPROACH CHART

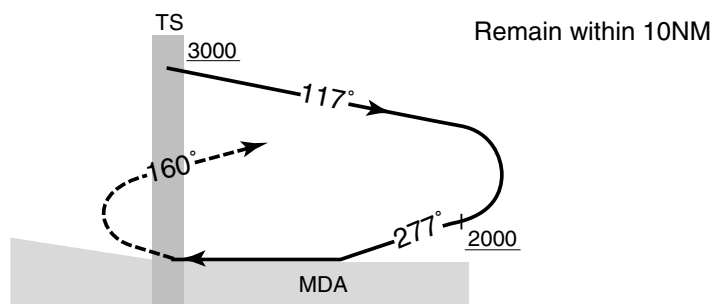
RJOS / TOKUSHIMA

NDB RWY 29



**MISSED APPROACH**

At TS NDB, turn left and climb via 160° from TS NDB to 3000FT, then turn right within 10NM of TS NDB, proceed to TS NDB and hold.  
Contact TOKUSHIMA APP.

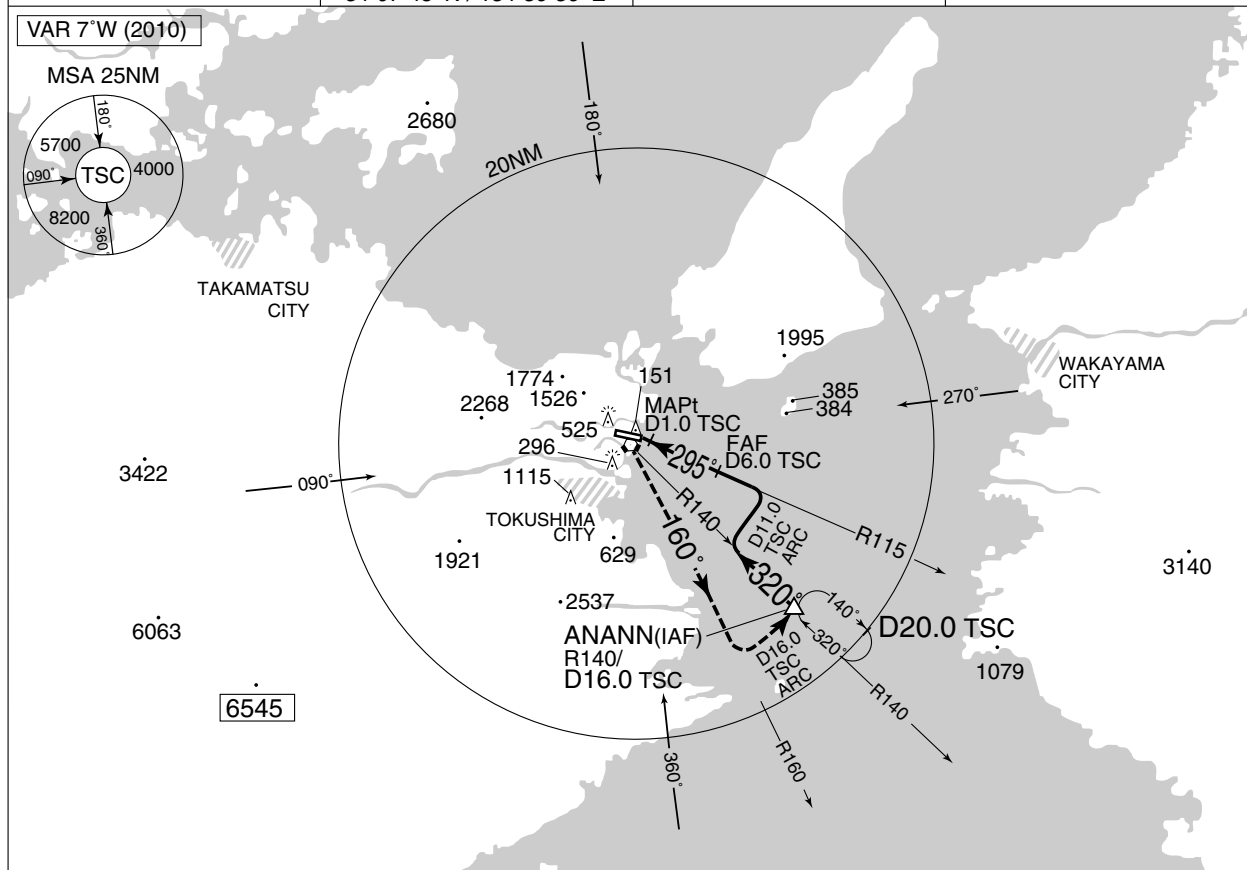


MINIMA		THR elev. 37	AD elev. 37	
CAT			CIRCLING	
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	580 (543)	1500	580 (543)	1600
B				
C		2000	600 (563)	2400
D			840 (803)	3200

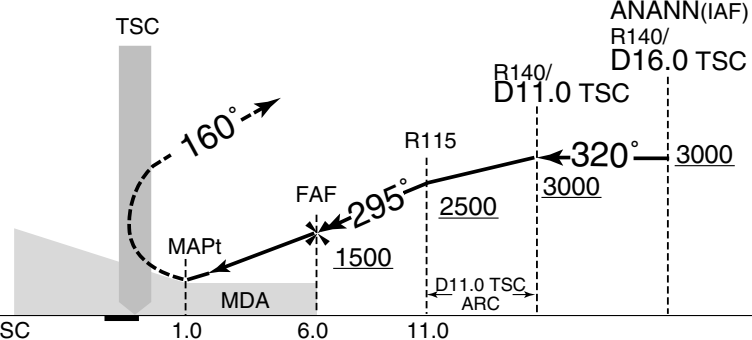


## RJOS / TOKUSHIMA

TOKUSHIMA APP 120.1 - 124.0 261.2 - 284.6	TOKUSHIMA TACAN CH-96X TSC 22.1 34°07'48"N / 134°36'36"E	TOKUSHIMA TOWER 118.0 - 126.2 233.8 - 236.8	GCA AVBL CALL TOKUSHIMA APP
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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	

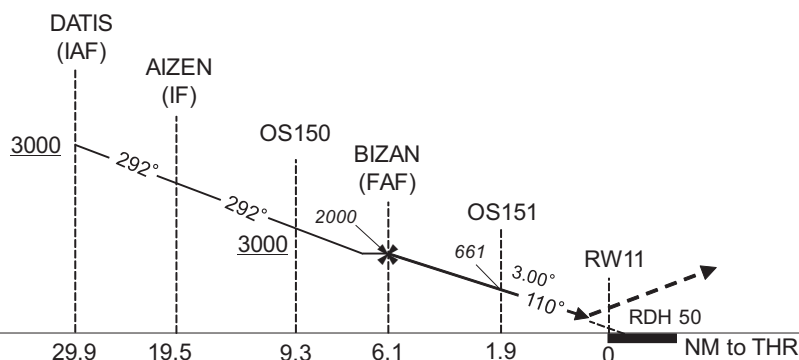
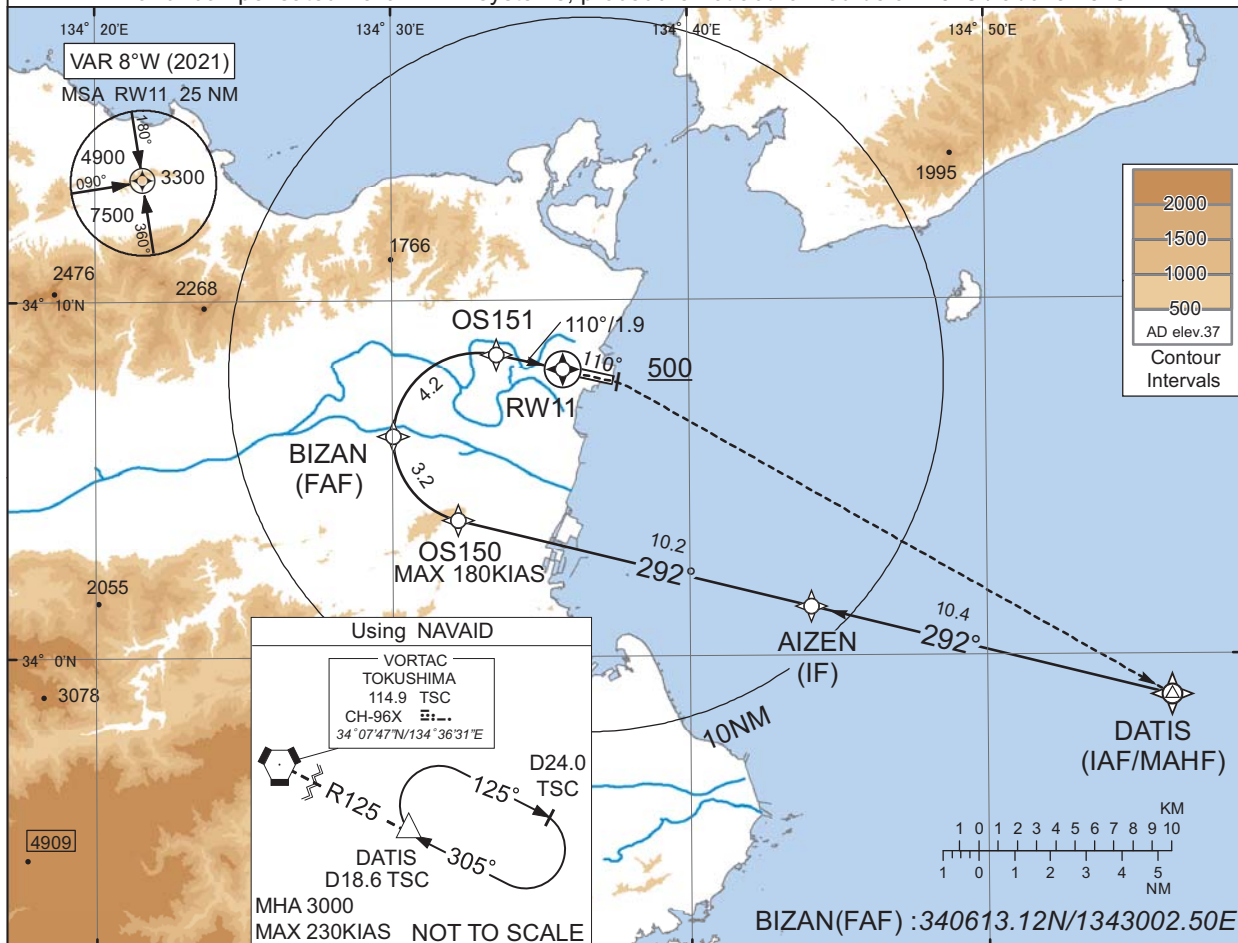
## R JOS / TOKUSHIMA

TOKUSHIMA APP  
120.1 - 124.0  
261.2 - 284.6

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



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

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.

# RNP AR

Special Authorization Required

CHANGE : New PROC.

## INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA

RNAV(RNP) Z RWY11

RNAV(RNP) Z RWY11Coding 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

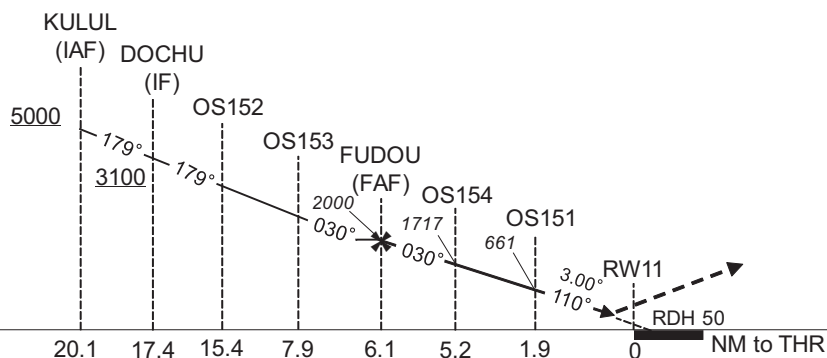
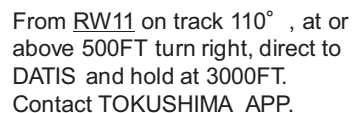
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
DATIS	335851.96N / 1345613.14E	OSRF2	340610.26N / 1343254.26E
AIZEN	340123.97N / 1344405.59E		
OS150	340351.55N / 1343212.95E		
BIZAN	340613.12N / 1343002.50E		
OS151	340829.79N / 1343331.39E		
RW11	340804.98N / 1343545.74E		

CHANGE : New PROC.

## R JOS / TOKUSHIMA

RNAV(RNP) Y RWY11

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



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

# RNP AR

Special Authorization Required

## INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA

RNAV(RNP) Y RWY11

RNAV(RNP) Y RWY11Coding 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

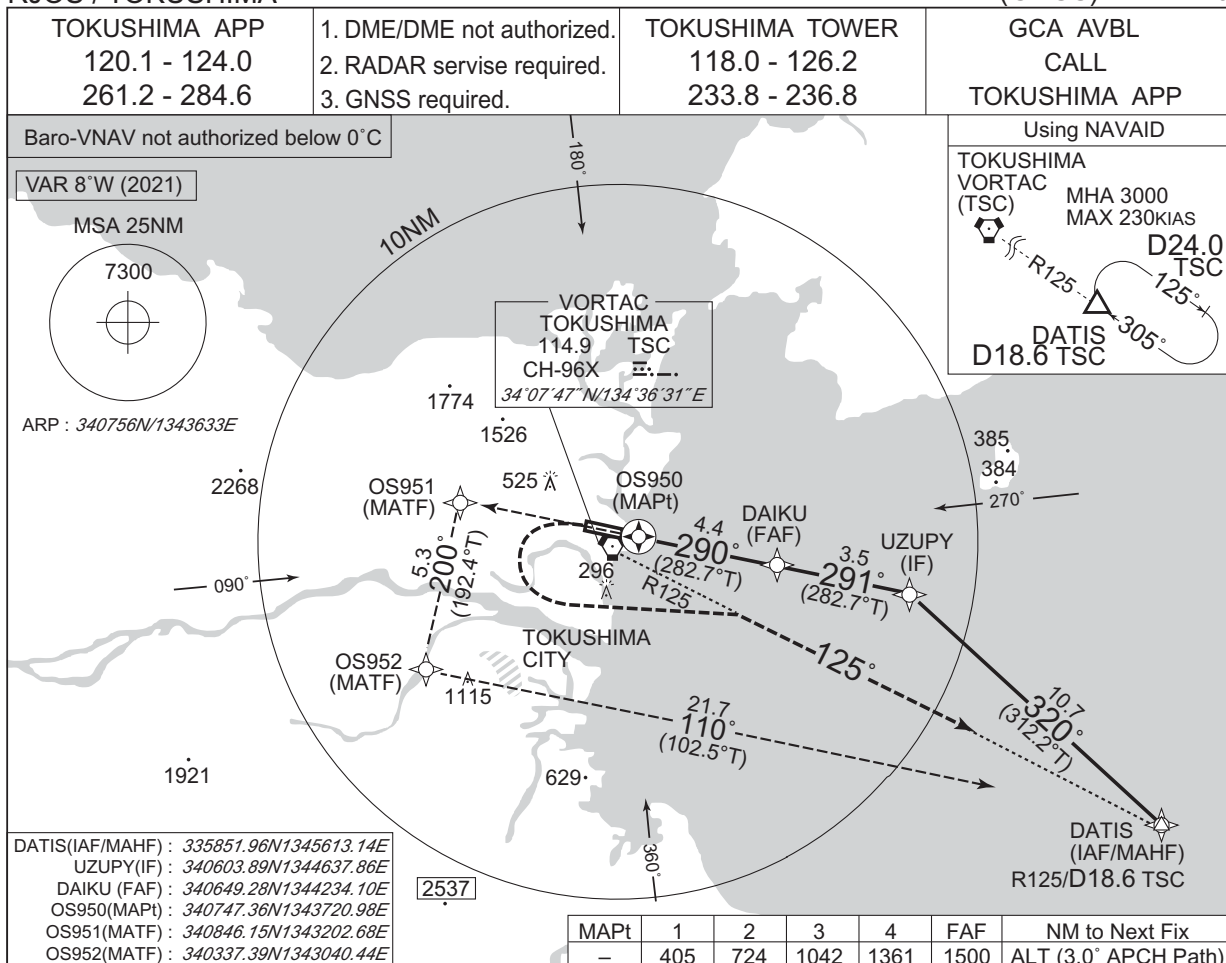
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
KULUL	340954.74N / 1342131.22E	OSRF1	340544.73N / 1342549.48E
DOCHU	340716.80N / 1342200.89E	OSRF2	340610.26N / 1343254.26E
OS152	340517.99N / 1342223.19E		
OS153	340438.24N / 1342902.35E		
FUDOU	340615.76N / 1342950.98E		
OS154	340705.08N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

CHANGE : New PROC.

## INSTRUMENT APPROACH CHART

RJOS / TOKUSHIMA

RNAV(GNSS) Z RWY29

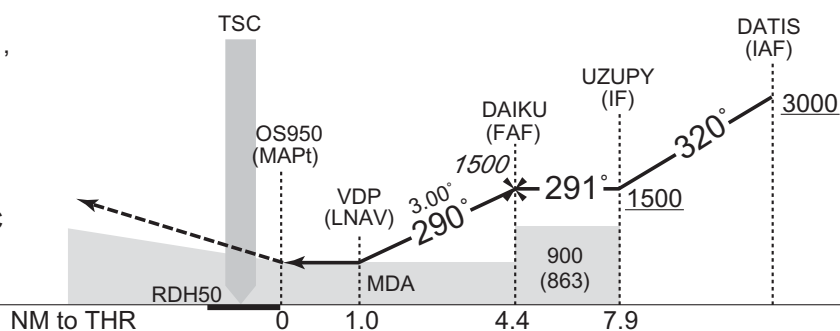


## MISSED APPROACH

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		1800		1800	600 (563)	2400
C						
D						

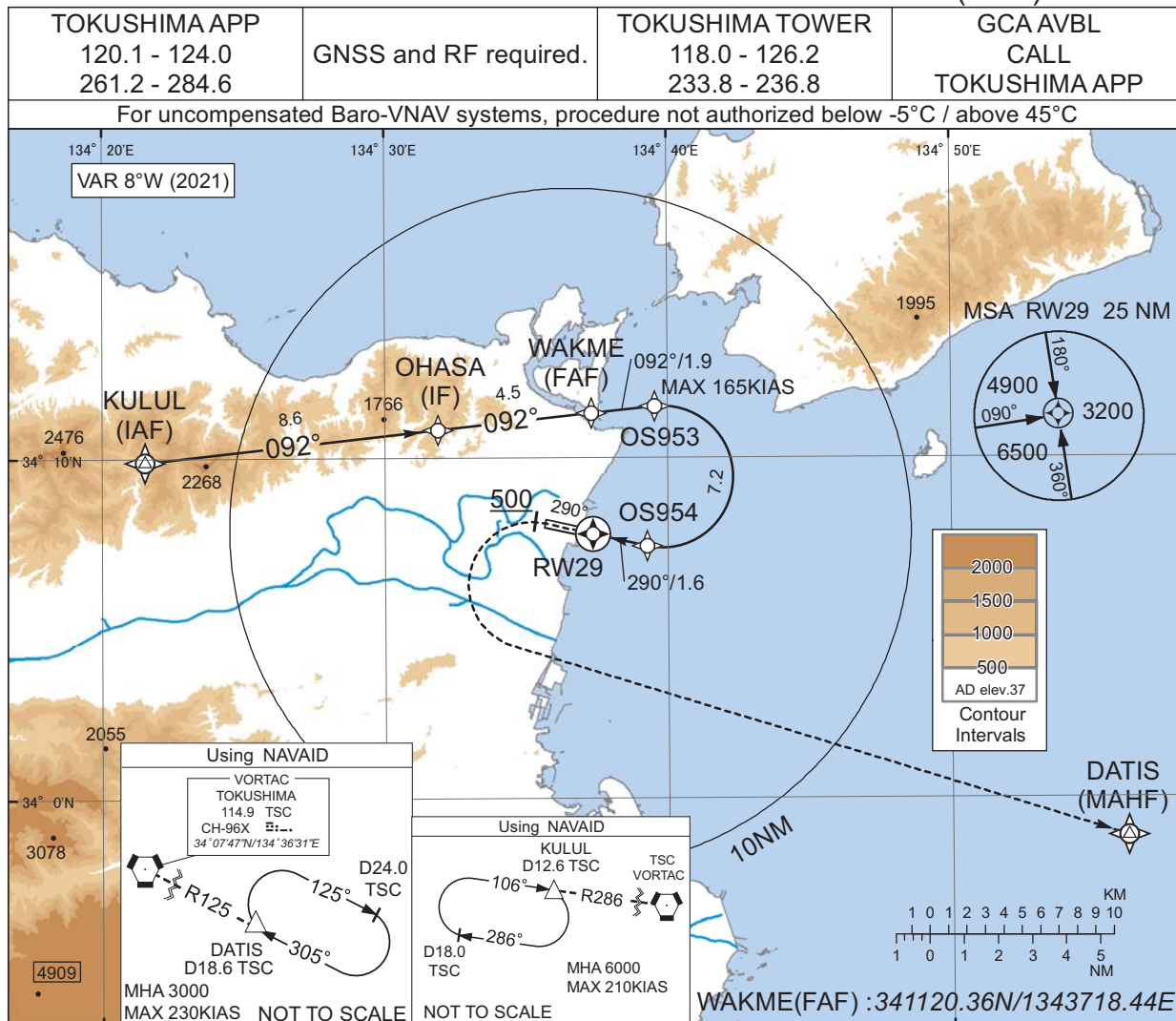
MINIMA with Missed APCH climb gradient of 2.5% are not established.

CHANGE : VAR. MSA. PROC renamed. Required navigation sensor. PROC course. MISSED APPROACH course. RW29, OS293, OS294 abolished.  
 OS950, OS951, OS952 established. FIX name added(FAF).

INSTRUMENT APPROACH CHART

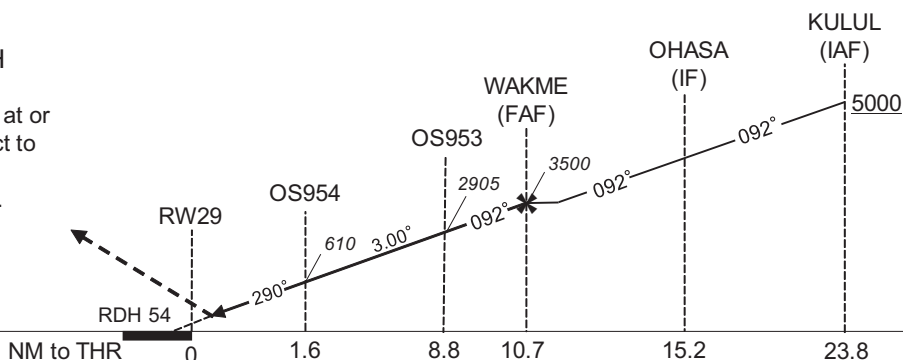
RJOS / TOKUSHIMA

RNAV(RNP) Y RWY29



**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%

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.

**RNP AR**

**Special Authorization Required**

CHANGE : New PROC.



## INSTRUMENT APPROACH CHART

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RNAV(RNP) Y RWY29

RNAV(RNP) Y RWY29Coding 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 : New PROC.

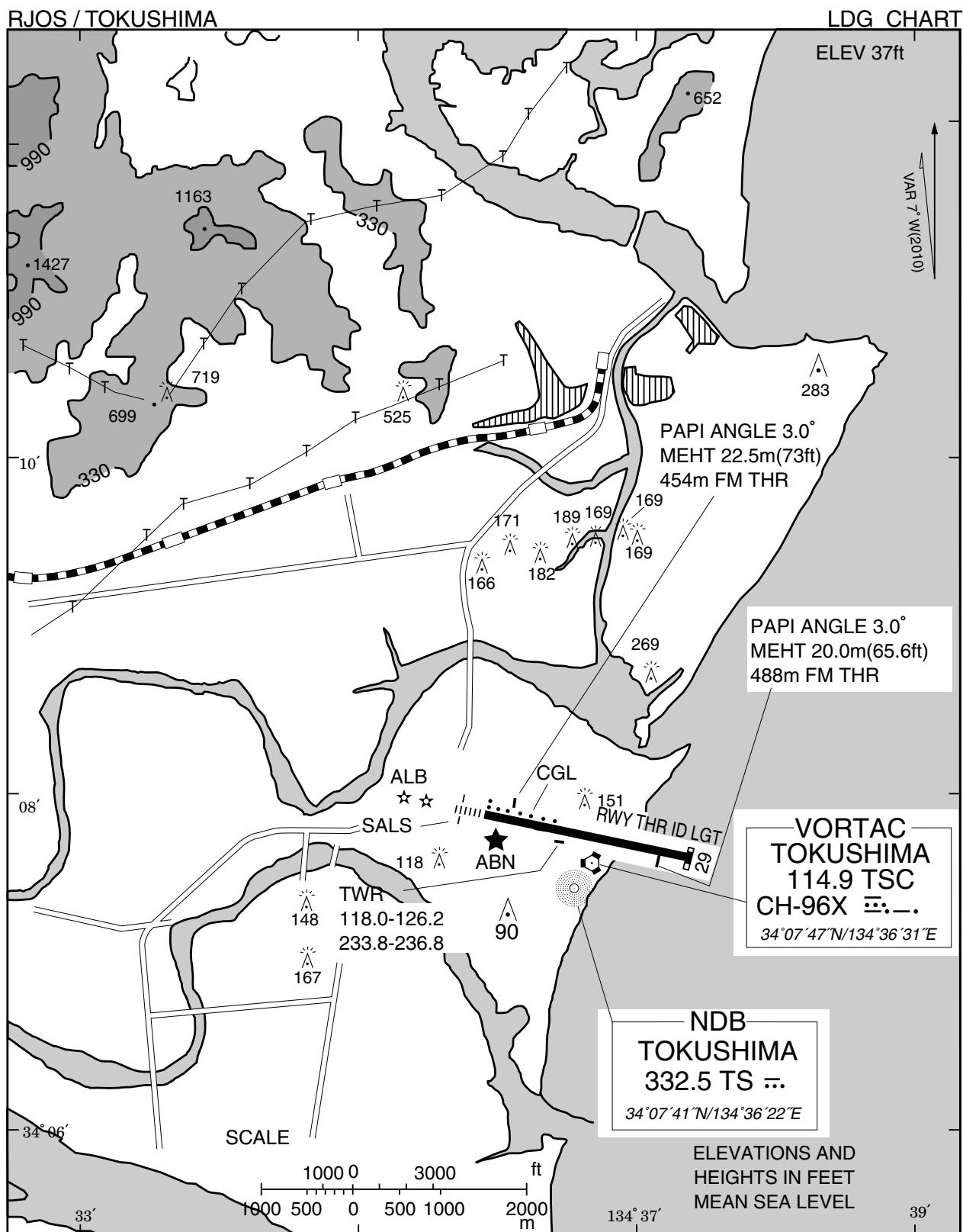


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Visual REP

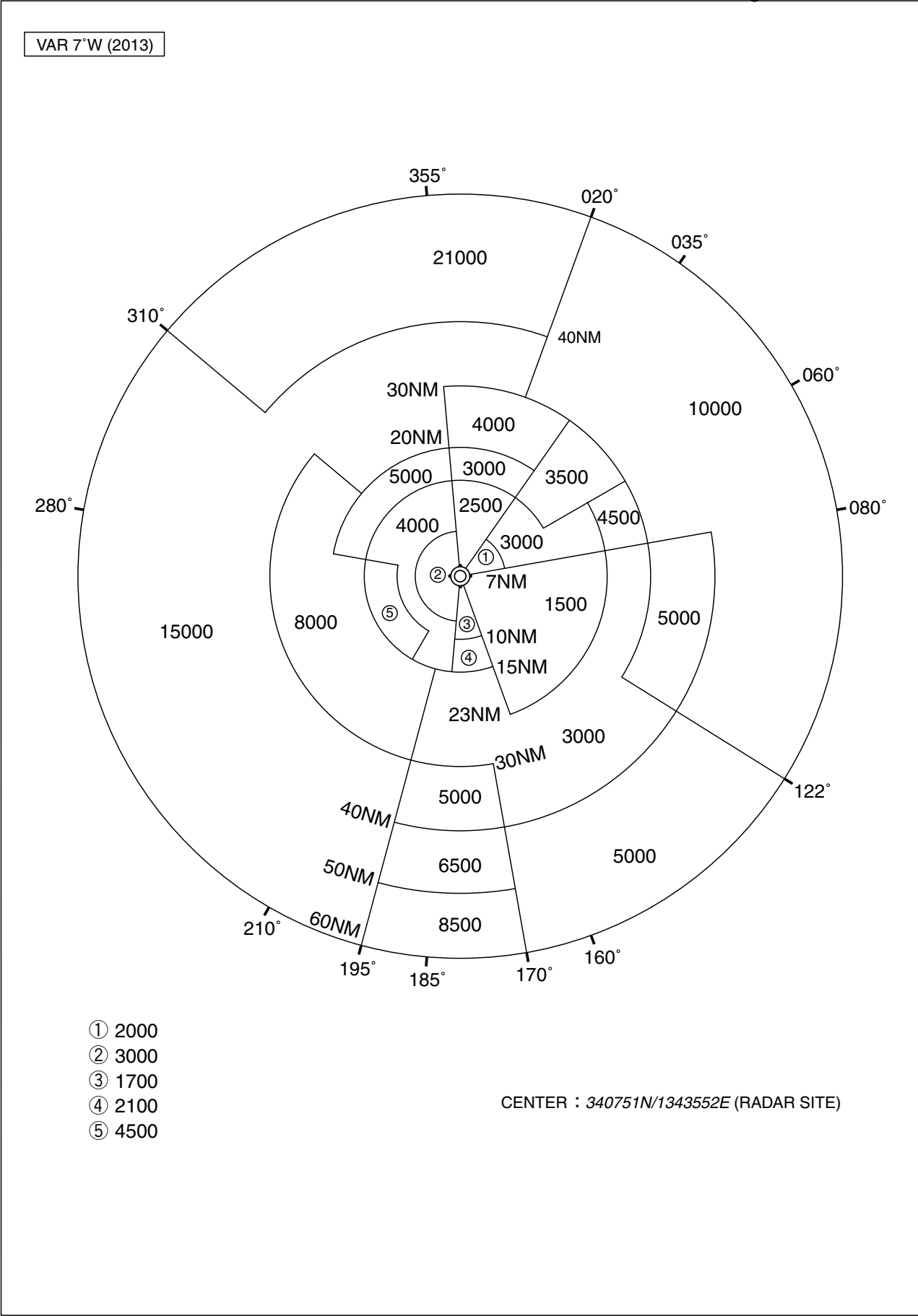


Call sign	BRG / DIST from ARP	Remarks
沼 島 Nushima	086°/11.0NM	灯台 Lighthouse
福 良 Fukura	042°/8.5NM	港 Harbor
吉野イニシャル Yoshino Initial	254°/4.5NM	鉄道橋中央 the center of iron bridge
岡 崎 Okazaki	036°/3.3NM	灯台 Lighthouse
吉野リバー Yoshino River	195°/3.3NM	吉野川河口 River-mouth



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Minimum Vectoring Altitude CHART



**INTENTIONALLY LEFT BLANK**