

STANDARD DEPARTURE CHART -INSTRUMENT

RJFU / NAGASAKI

SID

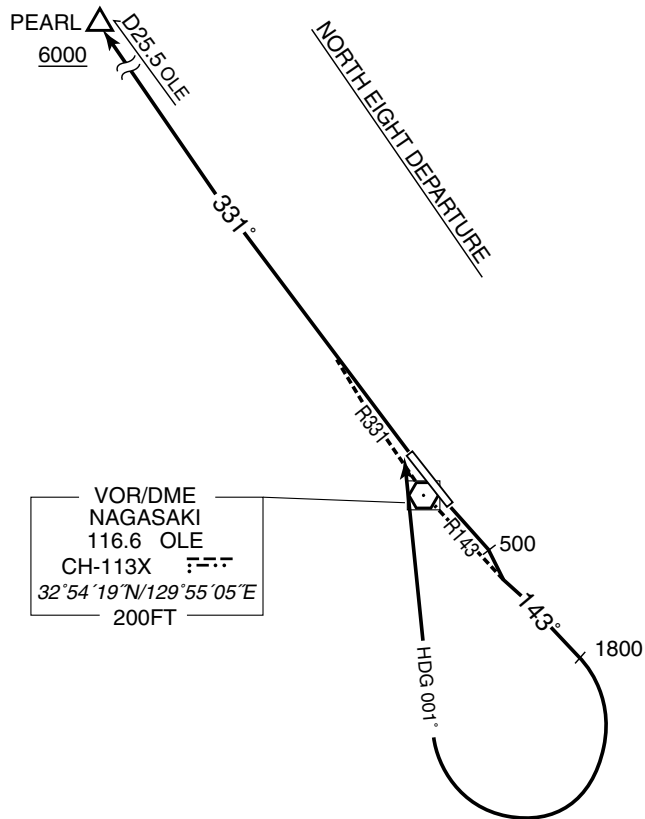
NORTH EIGHT DEPARTURE

RWY 14: Climb RWY HDG to 500FT, climb via OLE R143 to 1800FT,
turn right HDG001° to intercept and proceed via OLE R331 to PEARL,...

RWY 32: Climb via OLE R331 to PEARL,...

... Cross PEARL at or above 6000FT.

NOTE RWY 14: 5.0% climb gradient required up to 1800FT.
OBST ALT 854FT located at 3.40NM 170° FM end of RWY14.



STANDARD DEPARTURE CHART -INSTRUMENT

RJFU / NAGASAKI

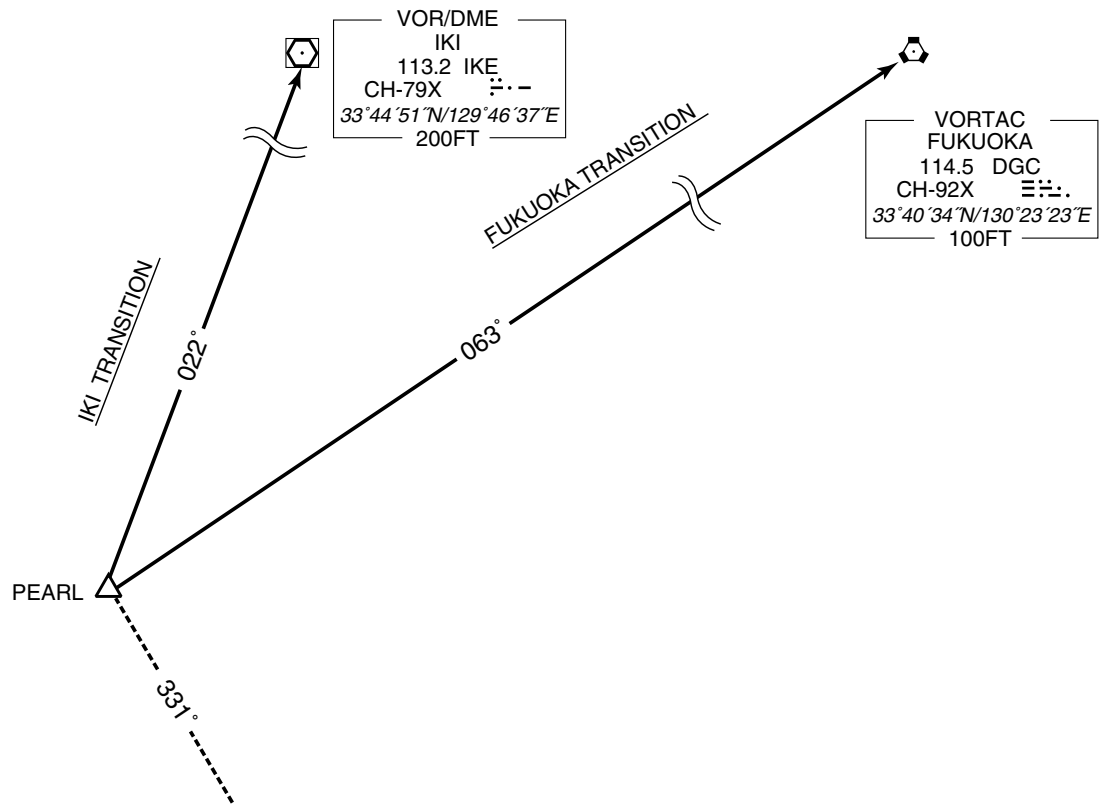
TRANSITION

FUKUOKA TRANSITION

From over PEARL, proceed via DGC R243 to DGC VORTAC.

IKI TRANSITION

From over PEARL, proceed via IKE R202 to IKE VOR/DME.



STANDARD DEPARTURE CHART -INSTRUMENT

RJFU / NAGASAKI

SID

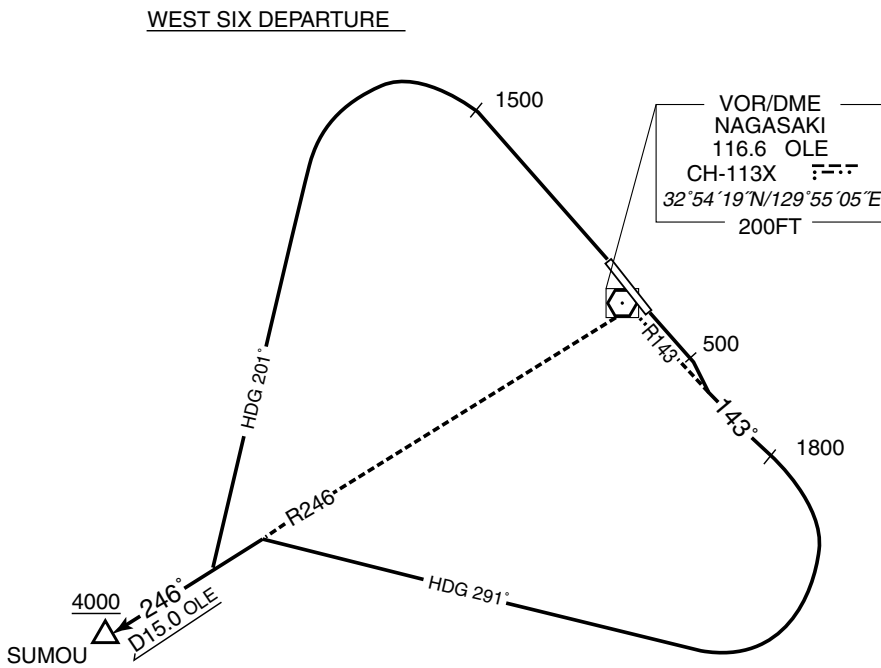
WEST SIX DEPARTURE

RWY 14: Climb RWY HDG to 500FT, climb via OLE R143 to 1800FT,
turn right HDG291° to intercept and proceed via OLE R246...

RWY 32: Climb RWY HDG 1500FT, turn left HDG201° to intercept
and proceed via OLE R246...

... to SUMOU.
Cross SUMOU at or above 4000FT.

NOTE RWY 14: 5.0% climb gradient required up to 1800FT.
OBST ALT 854FT located at 3.40NM 170° FM end of RWY14.
RWY 32: 5.0% climb gradient required up to 1500FT.
OBST ALT 1969FT located at 8.01NM 271° FM end of RWY32.



STANDARD DEPARTURE CHART -INSTRUMENT

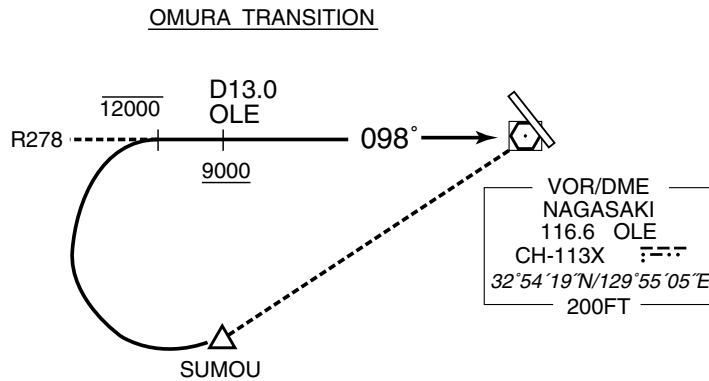
RJFU / NAGASAKI

TRANSITION

OMURA TRANSITION

From over SUMOU, turn right to intercept and proceed via OLE R278 to OLE VOR/DME.

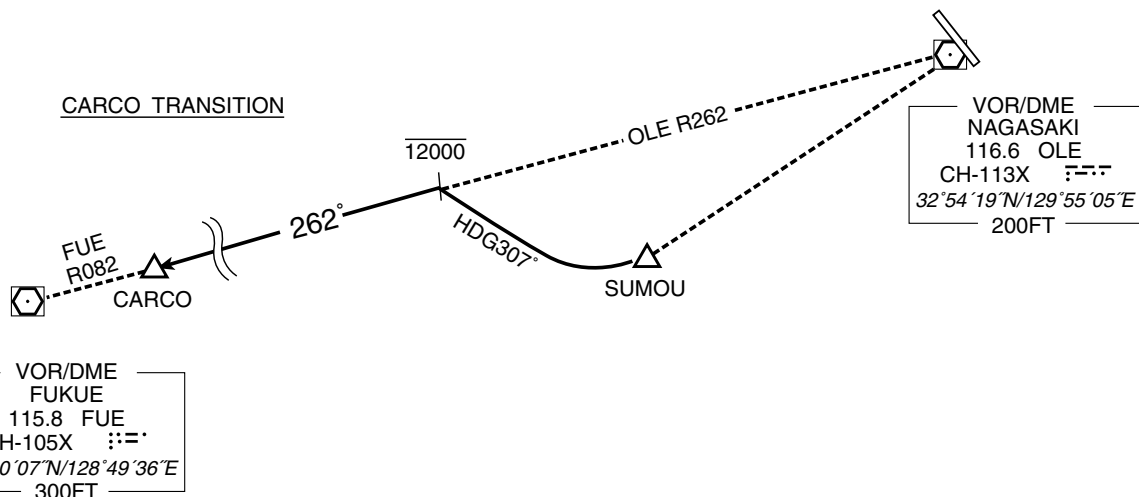
Maintain 12000FT or below until intercepting OLE R278.
Cross OLE R278/13.0DME at or above 9000FT.



CARCO TRANSITION

From over SUMOU, turn right HDG 307° to intercept and proceed via OLE R262 /FUE R082 to CARCO.

Maintain 12000FT or below until intercepting OLE R262.



STANDARD DEPARTURE CHART -INSTRUMENT

RJFU / NAGASAKI

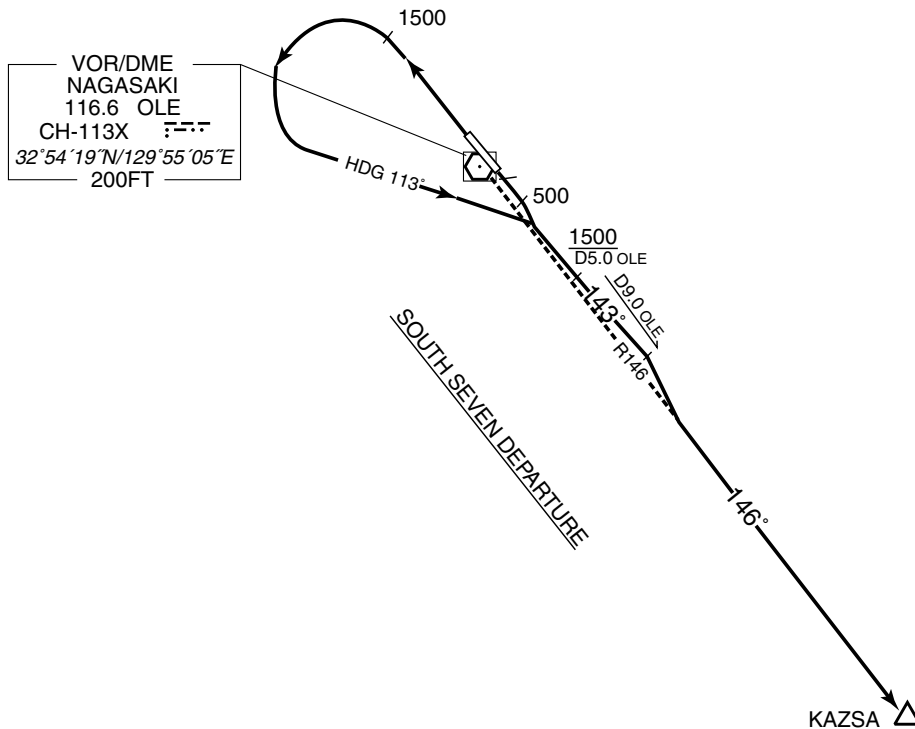
SID

SOUTH SEVEN DEPARTURE

RWY 14: Climb RWY HDG to 500FT, climb via OLE R143 to 9.0DME, turn right to intercept and proceed via OLE R146 to KAZSA. Cross OLE R143/5.0DME at or above 1500FT.

RWY 32: Climb RWY HDG to 1500FT, turn left HDG113° to intercept and proceed via OLE R143 to 9.0DME, turn right to intercept and proceed via OLE R146 to KAZSA.

NOTE RWY 14: 5.0% climb gradient required up to 1500FT.
OBST ALT 854FT located at 3.40NM 170° FM end of RWY14.
RWY 32: 5.0% climb gradient required up to 1500FT.
OBST ALT 1969FT located at 8.01NM 271° FM end of RWY32.



STANDARD DEPARTURE CHART -INSTRUMENT

RJFU / NAGASAKI

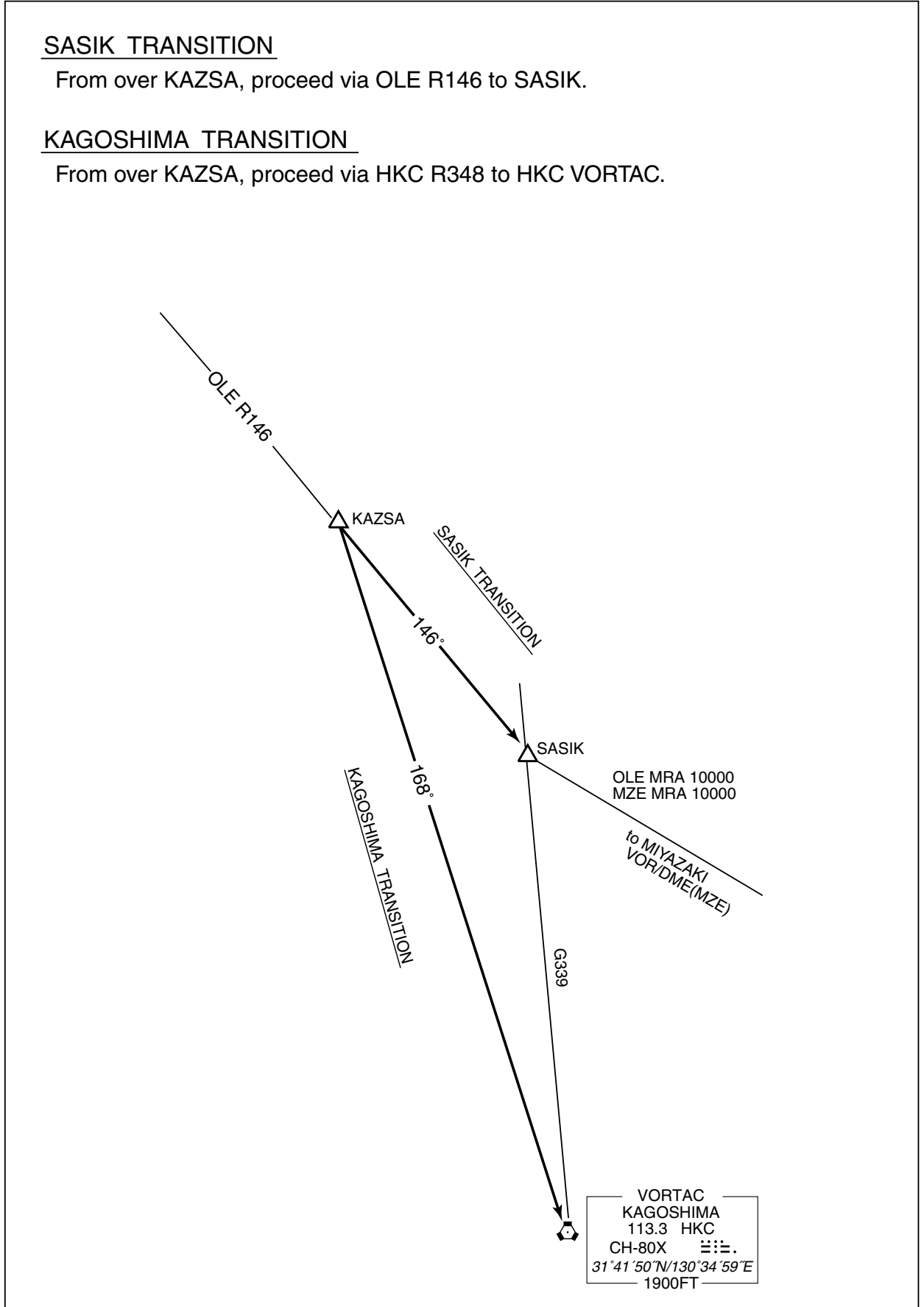
TRANSITION

SASIK TRANSITION

From over KAZSA, proceed via OLE R146 to SASIK.

KAGOSHIMA TRANSITION

From over KAZSA, proceed via HKC R348 to HKC VORTAC.



STANDARD DEPARTURE CHART -INSTRUMENT

RJFU / NAGASAKI

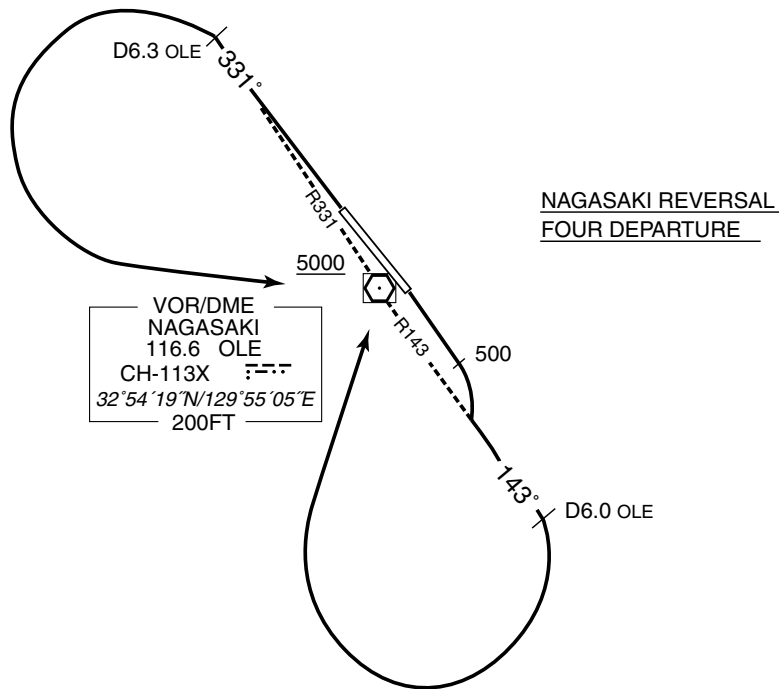
SID

NAGASAKI REVERSAL FOUR DEPARTURE

RWY 14: Climb RWY HDG to 500FT, climb via OLE R143 to 6.0DME, turn right, direct to OLE VOR/DME.
Cross OLE VOR/DME at or above 5000FT.

RWY 32: Climb via OLE R331 to 6.3DME, turn left, direct to OLE VOR/DME.
Cross OLE VOR/DME at or above 5000FT.

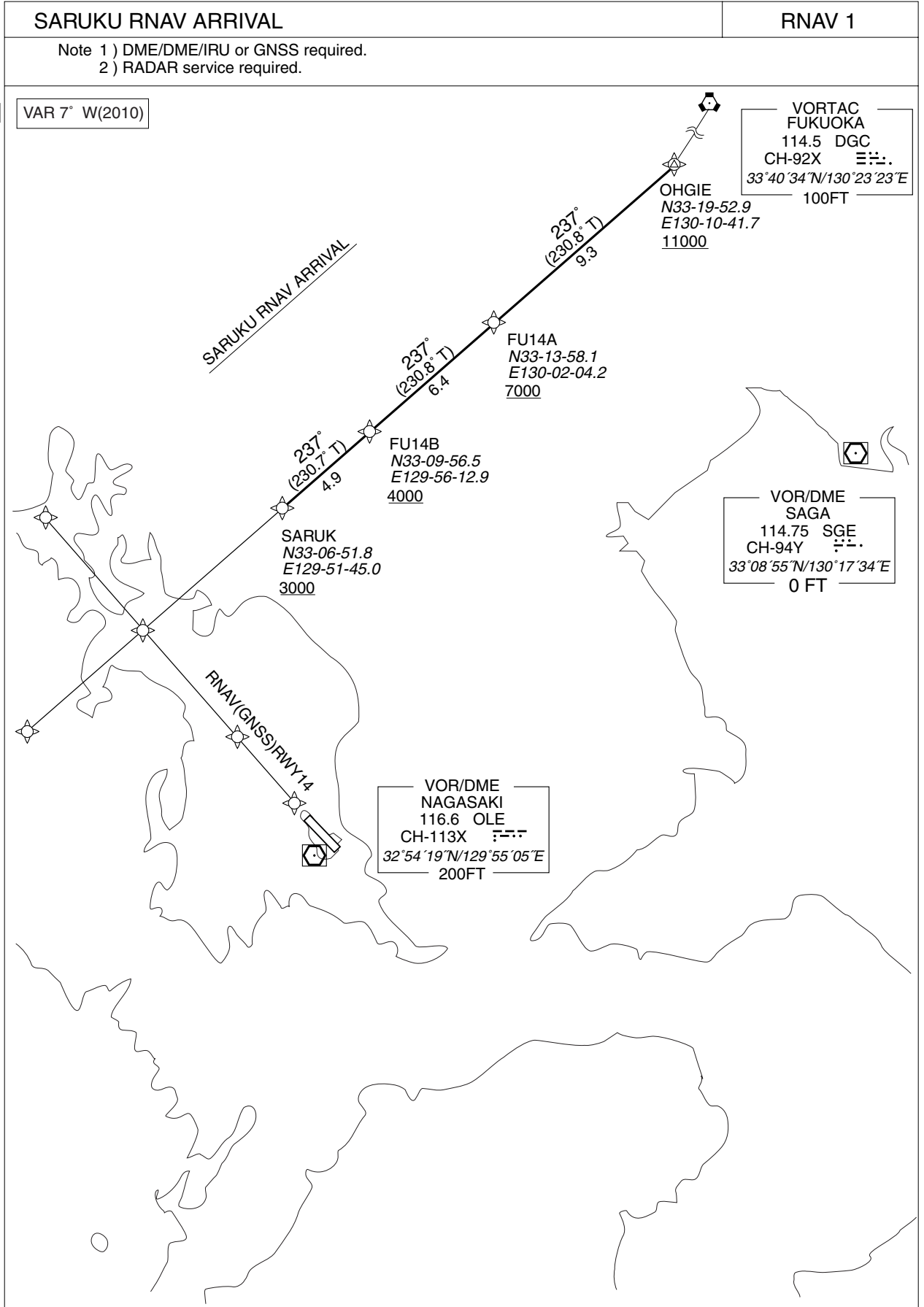
NOTE RWY 14: 5.0% climb gradient required up to 1800FT.
OBST ALT 1575FT located at 7.69NM 164° FM end of RWY14.
RWY 32: 5.0% climb gradient required up to 1600FT.
OBST ALT 1969FT located at 8.01NM 271° FM end of RWY32.



STANDARD ARRIVAL CHART-INSTRUMENT

RJFU / NAGASAKI

RNAV STAR
RWY14



STANDARD ARRIVAL CHART-INSTRUMENT

RNAV STAR

RWY14

RJFU / NAGASAKI

SARUKU RNAV ARRIVAL

From OHGIE at or above 11000FT, to FU14A at or above 7000FT, to FU14B at or above 4000FT, to SARUK at or above 3000FT.

FIX	DESIGNATION	COORDINATES
	OHGIE	331952.9N 1301041.7E
	FU14A	331358.1N 1300204.2E
	FU14B	330956.5N 1295612.9E
	SARUK	330651.8N 1295145.0E
Critical DME		-
DME GAP		-
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1	

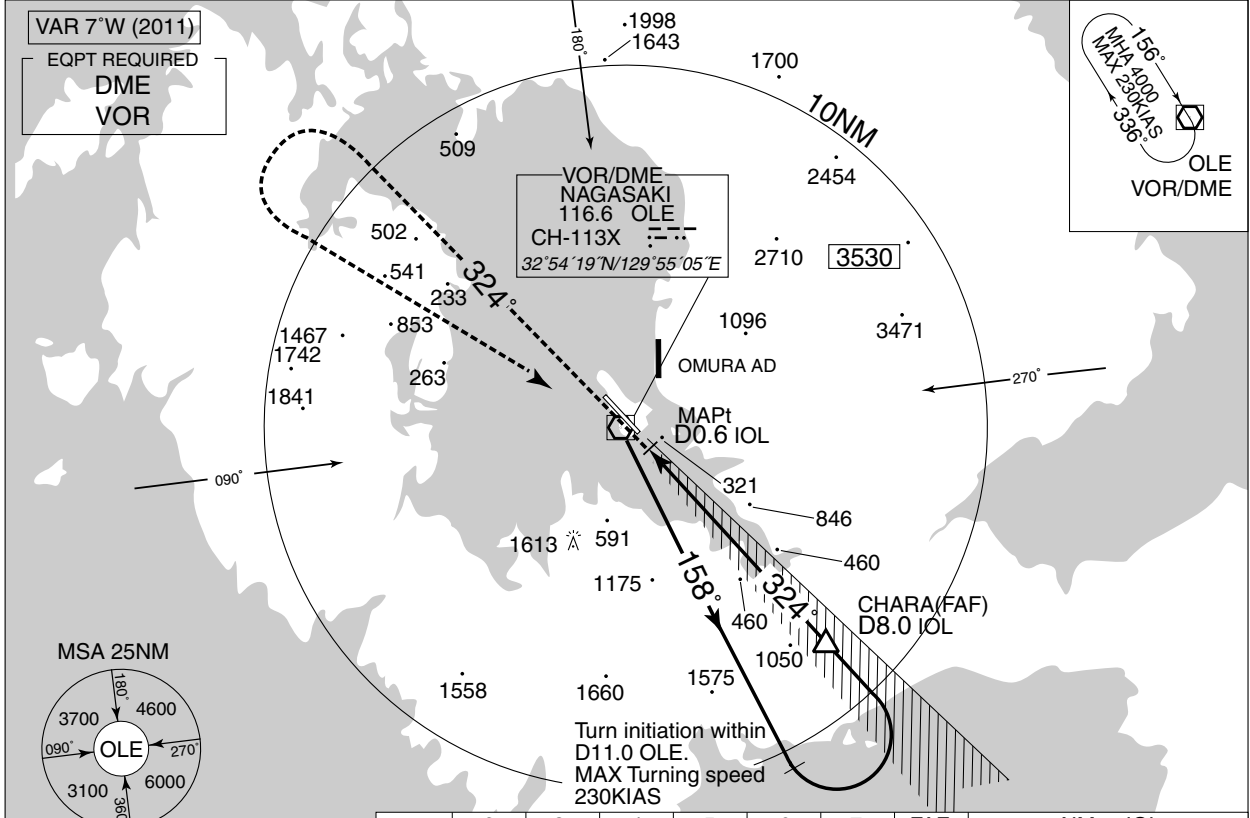
Rcmd. Path Terminator	Fix ID (Waypoint Name)	Fly Over	Distance (NM)	MAG Track (TRUE Track)	Turn Direction	Altitude (FT)	Speed Limit (kt)	Vertical Angle	Navigation Performance
IF	OHGIE	-	-	-	-	+11000	-	-	RNAV1
TF	FU14A	-	9.3	237° (230.8°)	-	+7000	-	-	RNAV1
TF	FU14B	-	6.4	237° (230.8°)	-	+4000	-	-	RNAV1
TF	SARUK	-	4.9	237° (230.7°)	-	+3000	-	-	RNAV1

INSTRUMENT APPROACH CHART

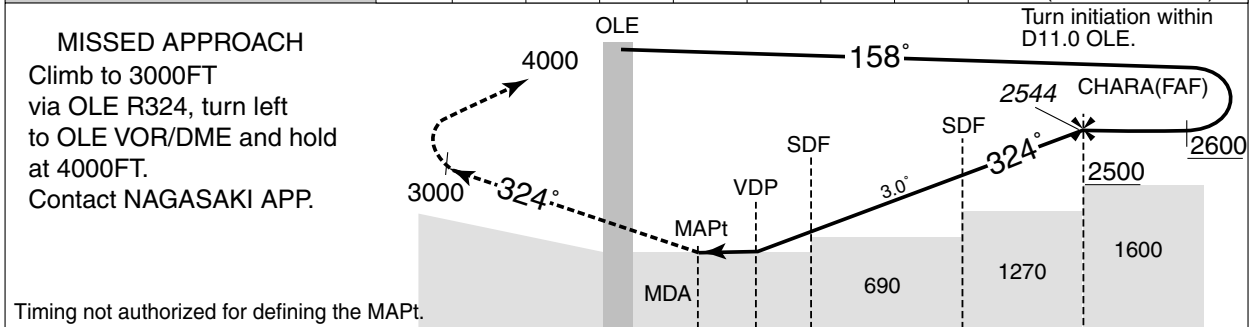
RJFU / NAGASAKI

LOC Y RWY 32

NAGASAKI APP 119.175 –121.025 261.2 – 288.1–362.3	ILS-LOC 110.9 IOL ILS-DME CH-46X	NAGASAKI TOWER 118.5 –126.2 –122.7 236.8	RADAR AVAILABLE ATIS 126.85
---	--	--	--------------------------------



MAPt	2	3	4	5	6	7	FAF	NM to IOL
—	648	966	1284	1602	1921	2239	2544	ALT(3.0° APCH Path)



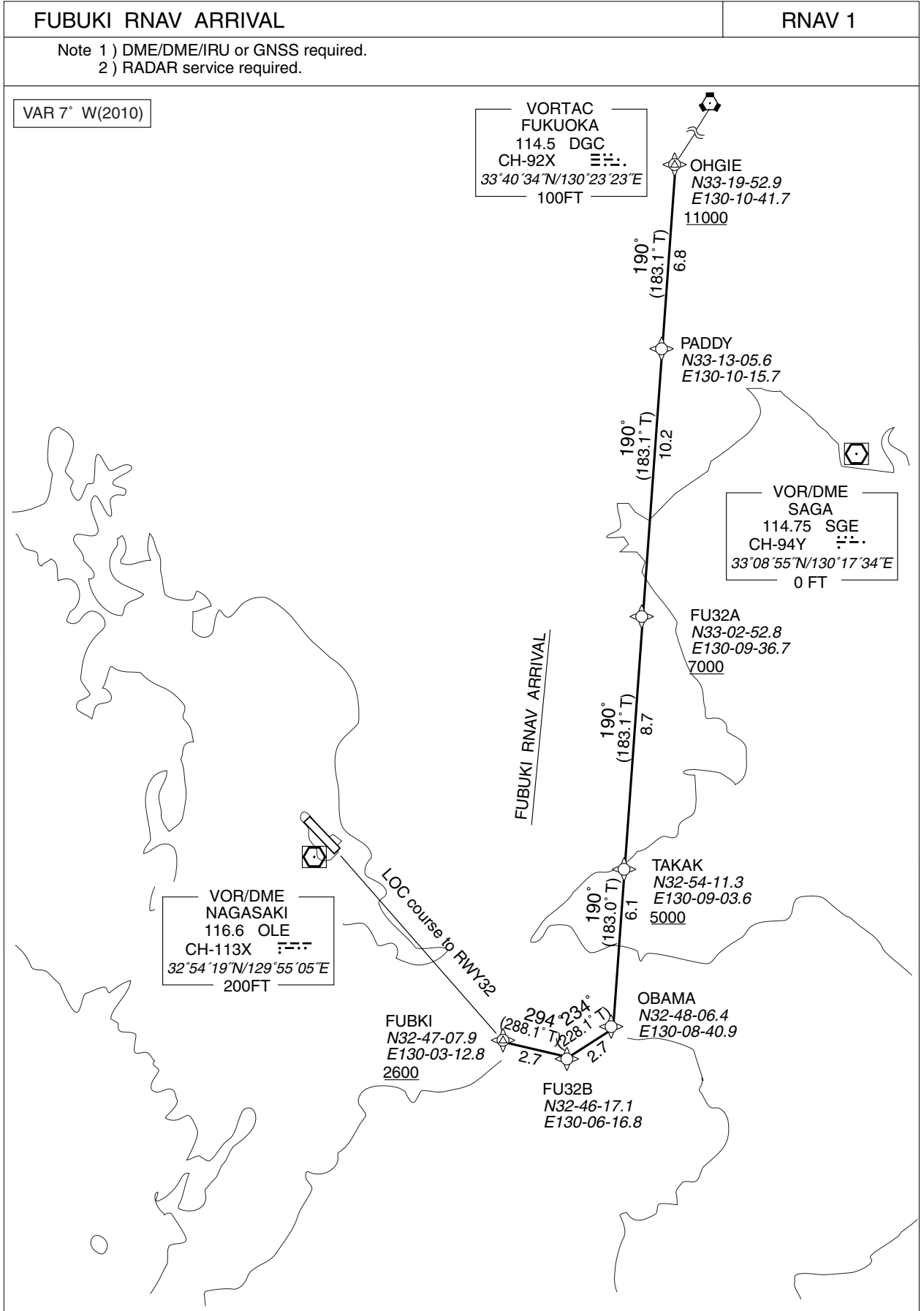
DME to IOL	0.6	1.4	2.6	6.6	8.0	
NM to THR	0	0.5	1.2	2.4	6.4	7.8

MINIMA		THR elev. 15	AD elev. 8
CAT			CIRCLING
	MDA(H)	RVR/CMV	MDA(H) VIS
A	430 (422)	900	620 (612) 1600
B		1000	
C			1400

STANDARD ARRIVAL CHART-INSTRUMENT

RJFU / NAGASAKI

RNAV STAR
RWY32



STANDARD ARRIVAL CHART-INSTRUMENT

RNAV STAR
RWY32

RJFU / NAGASAKI

FUBUKI RNAV ARRIVAL

From OHGIE at or above 11000FT, to PADDY, to FU32A at or above 7000FT, to TAKAK at or above 5000FT, to OBAMA, to FU32B, to FUBKI at or above 2600FT.

FIX	DESIGNATION	COORDINATES
	OHGIE	331952.9N 1301041.7E
	PADDY	331305.6N 1301015.7E
	FU32A	330252.8N 1300936.7E
	TAKAK	325411.3N 1300903.6E
	OBAMA	324806.4N 1300840.9E
	FU32B	324617.1N 1300616.8E
	FUBKI	324707.9N 1300312.8E
Critical DME	OLE	TAKAK - FUBKI
	SGE	2NM to TAKAK - FUBKI
DME GAP	-	
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1	

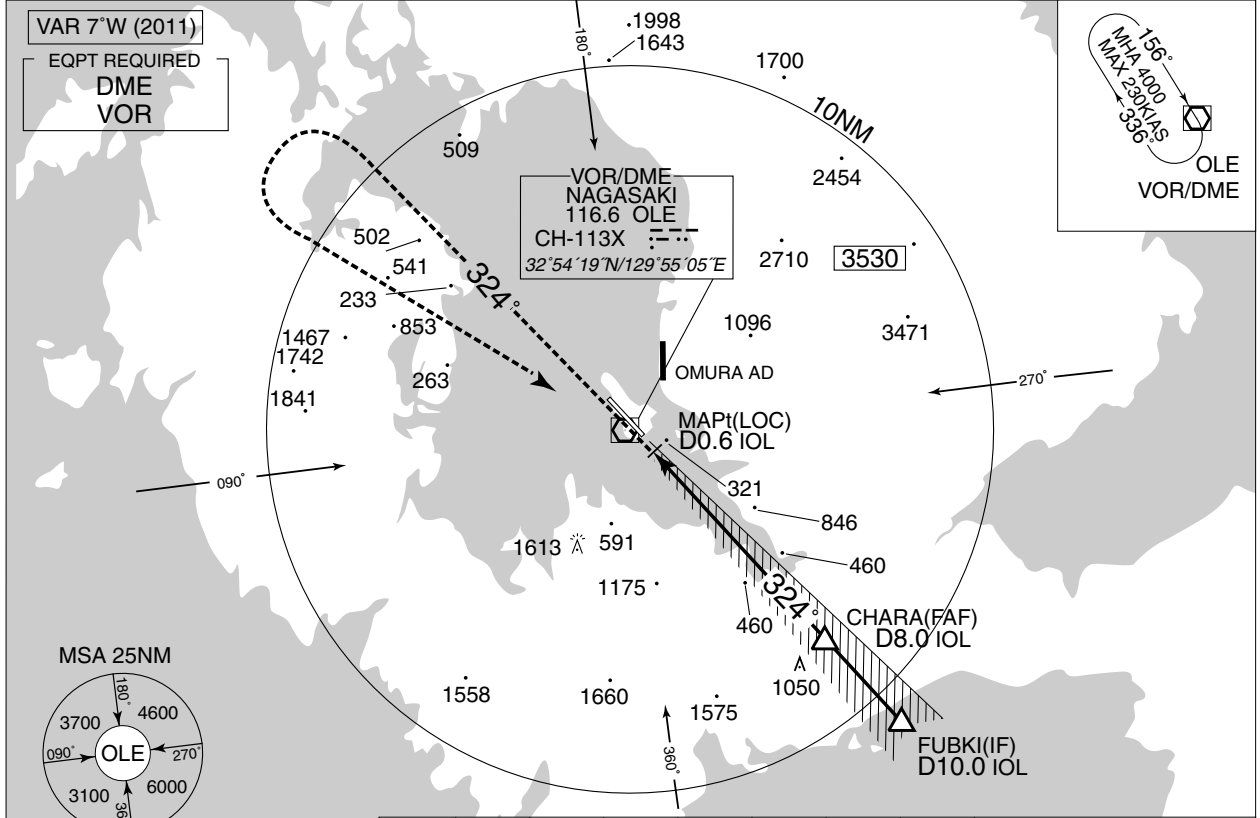
Rcmd. Path Terminator	Fix ID (Waypoint Name)	Fly Over	Distance (NM)	MAG Track (TRUE Track)	Turn Direction	Altitude (FT)	Speed Limit (kt)	Vertical Angle	Navigation Performance
IF	OHGIE	-	-	-	-	+11000	-	-	RNAV1
TF	PADDY	-	6.8	190° (183.1°)	-	-	-	-	RNAV1
TF	FU32A	-	10.2	190° (183.1°)	-	+7000	-	-	RNAV1
TF	TAKAK	-	8.7	190° (183.1°)	-	+5000	-	-	RNAV1
TF	OBAMA	-	6.1	190° (183.0°)	-	-	-	-	RNAV1
TF	FU32B	-	2.7	234° (228.1°)	-	-	-	-	RNAV1
TF	FUBKI	-	2.7	294° (288.1°)	-	+2600	-	-	RNAV1

INSTRUMENT APPROACH CHART

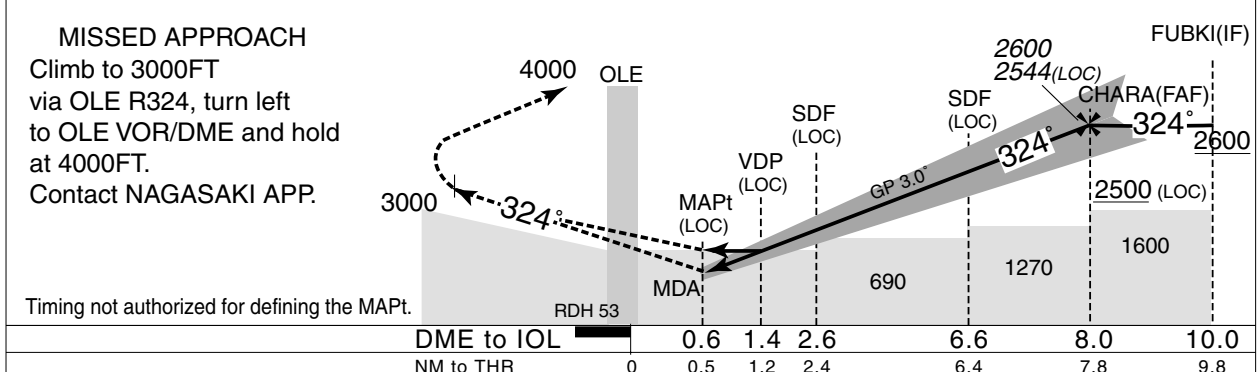
RJFU / NAGASAKI

ILS Z or LOC Z RWY 32

NAGASAKI APP 119.175 – 121.025 261.2 – 288.1 – 362.3	ILS-LOC 110.9 IOL ILS-GP 330.8 ILS-DME CH-46X	NAGASAKI TOWER 118.5 – 126.2 – 122.7 236.8	RADAR AVAILABLE ATIS 126.85
--	--	--	--------------------------------



CHARA(FAF):324837.22N1300137.60E	MAPt	2	3	4	5	6	7	FAF	NM to IOL
	-	648	966	1284	1602	1921	2239	2544	ALT(3.0° APCH Path)



DME to IOL	0.6	1.4	2.6	6.6	8.0	10.0	
NM to THR	0	0.5	1.2	2.4	6.4	7.8	9.8

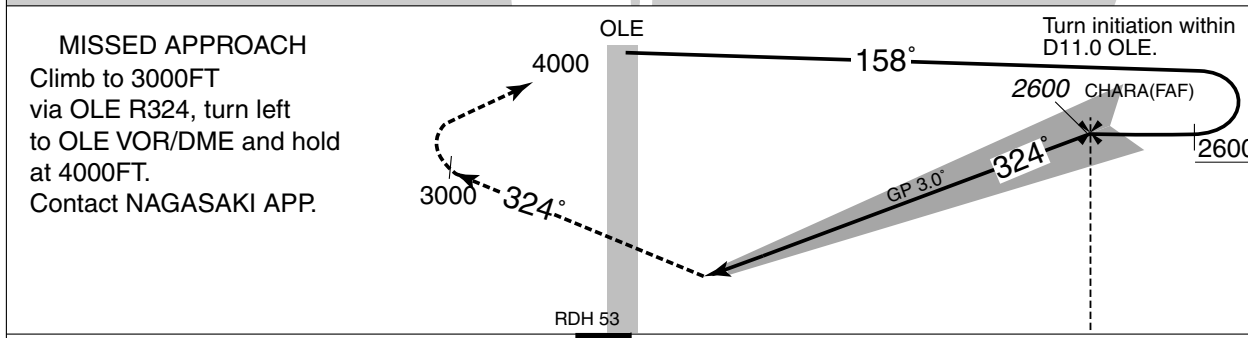
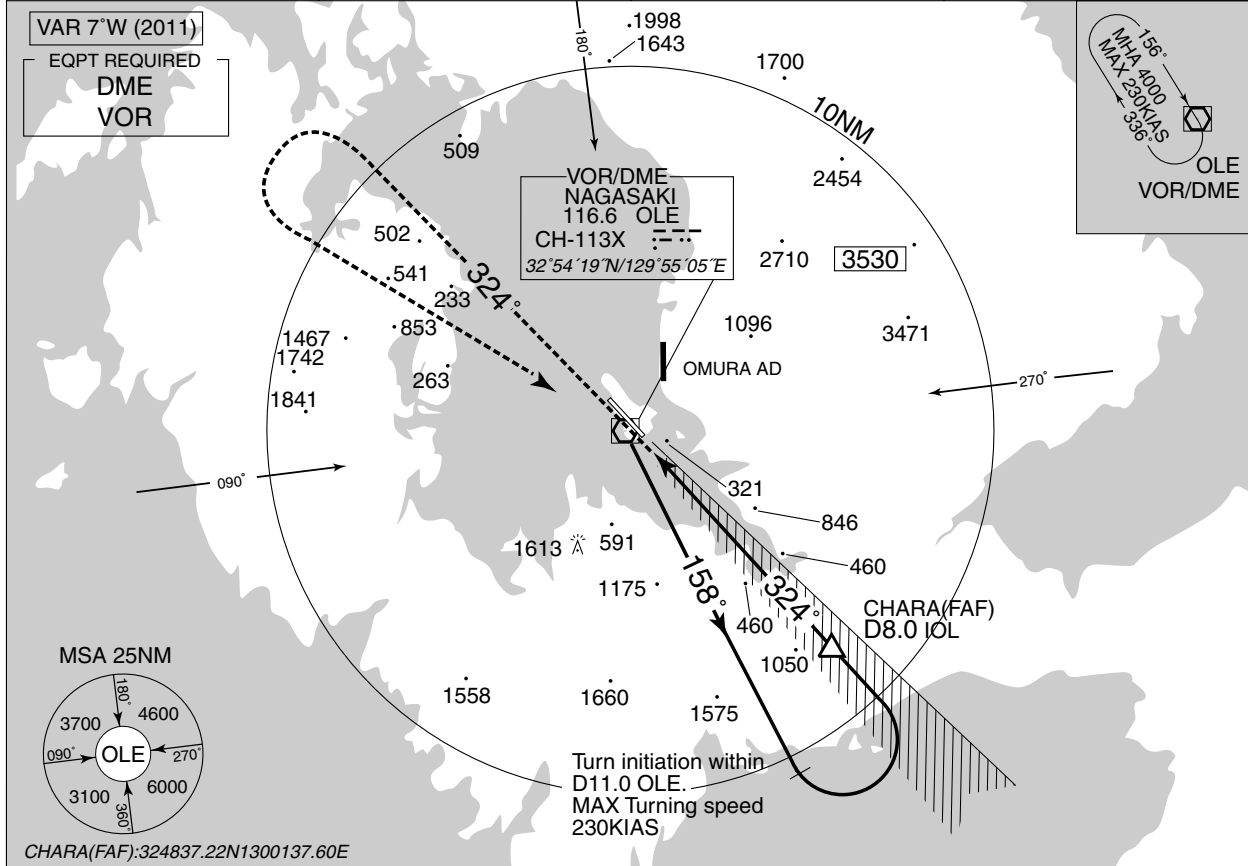
MINIMA		THR elev. 15		AD elev. 8			
CAT	CAT I		LOC		CIRCLING		
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS	
A	215 (200)	550	430 (422)	900	620 (612)	1600	
B				1000			
C				1400			2400
D				890 (882)			3200

INSTRUMENT APPROACH CHART

RJFU / NAGASAKI

ILS Y RWY 32

NAGASAKI APP 119.175 – 121.025 261.2 – 288.1 – 362.3	ILS-LOC 110.9 IOL ILS-GP 330.8 ILS-DME CH-46X	NAGASAKI TOWER 118.5 – 126.2 – 122.7 236.8	RADAR AVAILABLE ATIS 126.85
--	--	--	--------------------------------

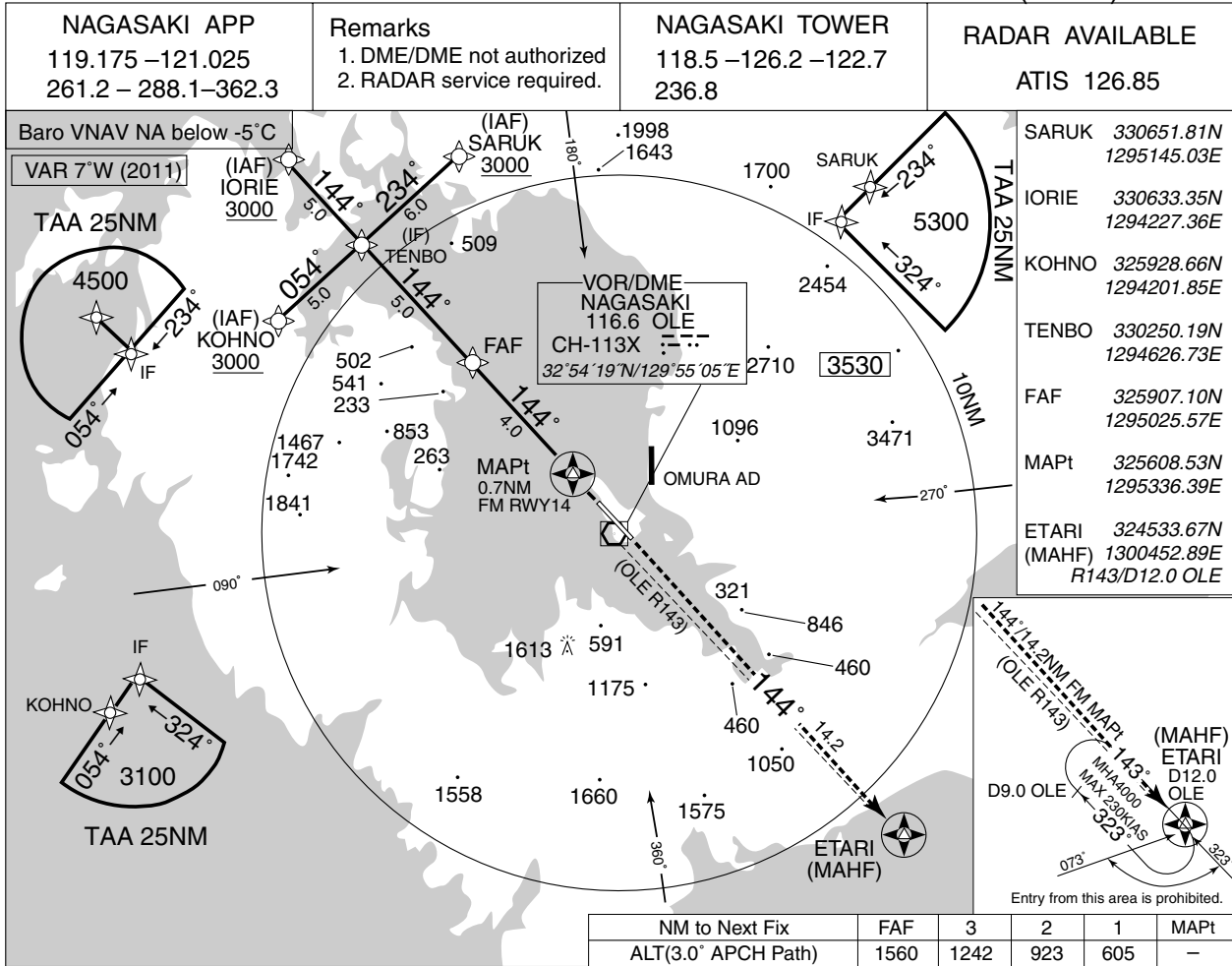


MINIMA		THR elev. 15	AD elev. 8	
CAT	CAT I		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	VIS
A	215 (200)	550	620 (612)	1600
B				2400
C				3200
D				3200

INSTRUMENT APPROACH CHART

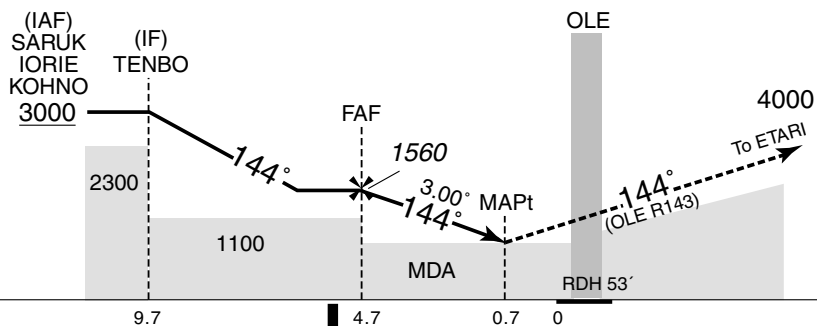
RJFU / NAGASAKI

RNAV(GNSS) RWY 14



MISSED APPROACH

Climb to 4000FT on track 144° to ETARI and hold.
 Contact NAGASAKI APP.
 (For using VOR/DME)
 Climb to 4000FT via OLE R143 to ETARI and hold.
 Contact NAGASAKI APP.



Missed APCH climb gradient MNM 4.8%

MINIMA		THR elev. 14		AD elev. 8		
		LNAV/VNAV		LNAV		CIRCLING
CAT	DA(H)	CMV	MDA(H)	CMV	MDA(H)	VIS
A	290 (276)	1000	290 (282)	1000	620 (612)	1600
B		1100		1200		
C		1200		1400	890(882)	3200
D		1400		1400		

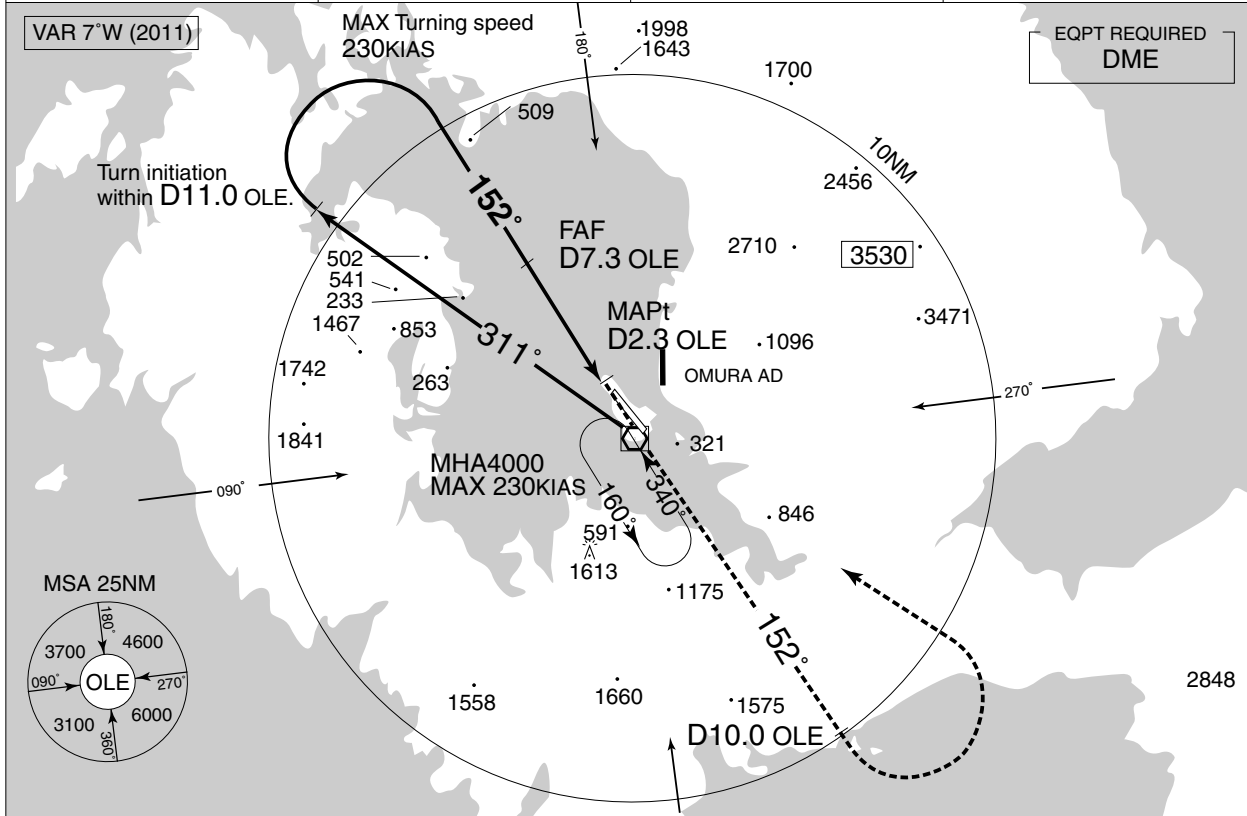
*MINIMA with Missed APCH climb gradient 2.5% are not established.

INSTRUMENT APPROACH CHART

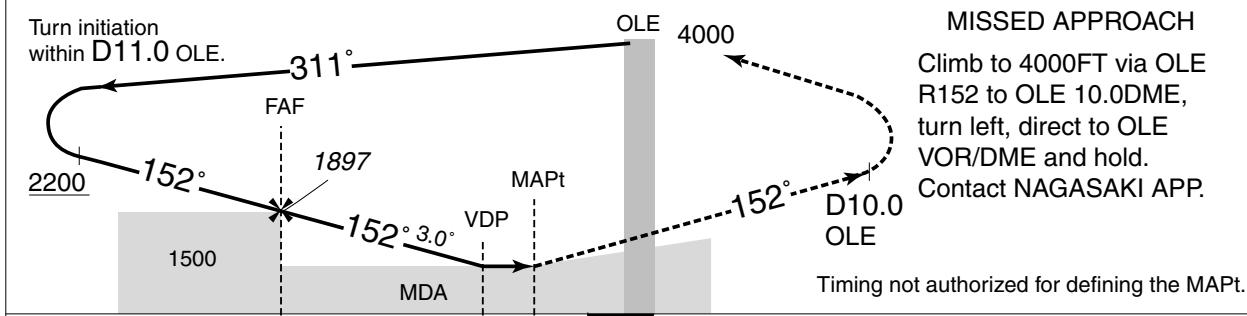
RJFU / NAGASAKI

VOR RWY 14

NAGASAKI APP 119.175 - 121.025 261.2 - 288.1 - 362.3	NAGASAKI VOR/DME 116.6 OLE $\overline{\text{---}}$ CH-113X 32°54'19"N/129°55'05"E	NAGASAKI TOWER 118.5 - 126.2 - 122.7 236.8	RADAR AVAILABLE ATIS 126.85
--	--	--	------------------------------------



NM to OLE	FAF	7	6	5	4	3	MAPt	
ALT (3.0° APCH Path)	1897	1814	1496	1178	859	541	-	FAF : 330019.11N/1295012.08E



	7.3	2.8	2.3	0	DME to OLE
	5.8	1.3	0.8	0	NM to THR

Missed APCH climb gradient MNM 3.0%

MINIMA		THR elev. 14		AD elev. 8			
CAT			CIRCLING				
	MDA(H)	CMV	MDA(H)	VIS			
A	490 (482)	1400	620 (612)	1600			
B		1500					
C		1600				2400	
D		1800				890 (882)	3200

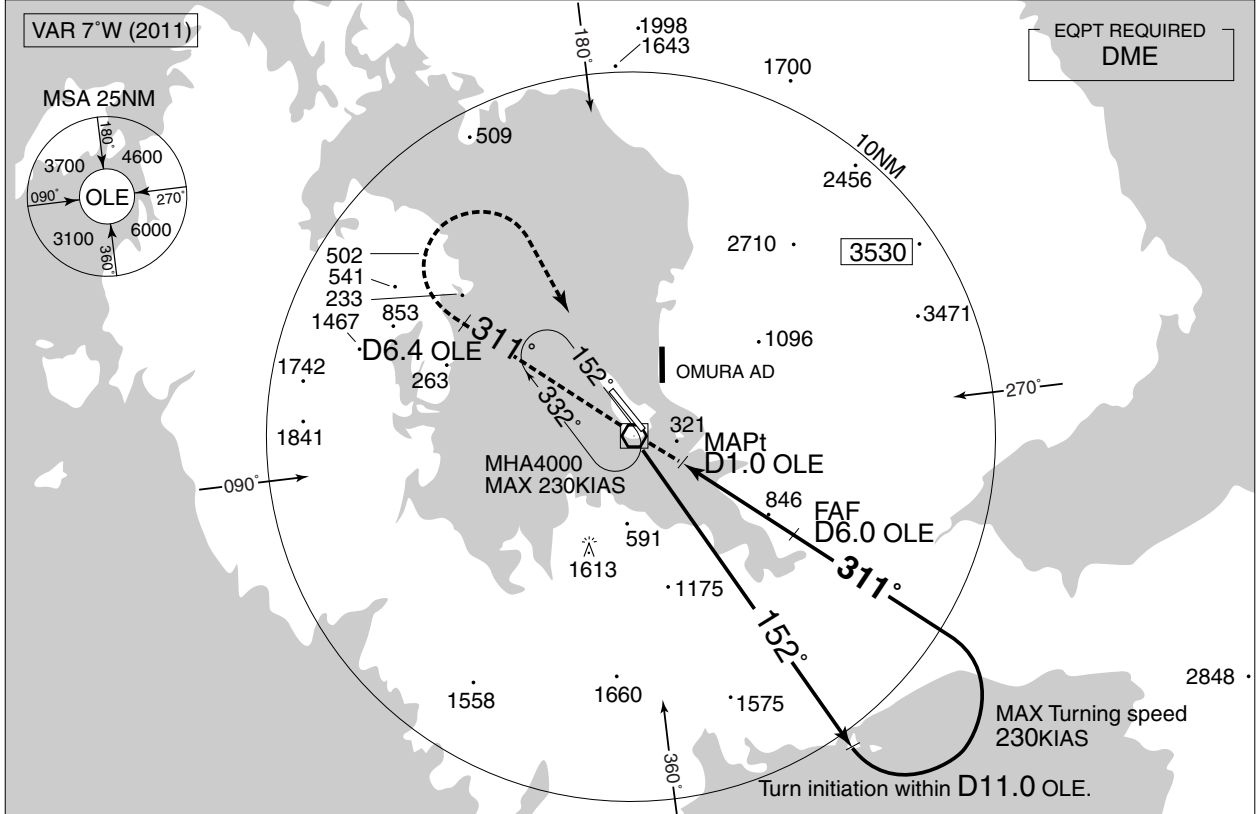
MINIMA with Missed APCH climb gradient 2.5% are not established.

INSTRUMENT APPROACH CHART

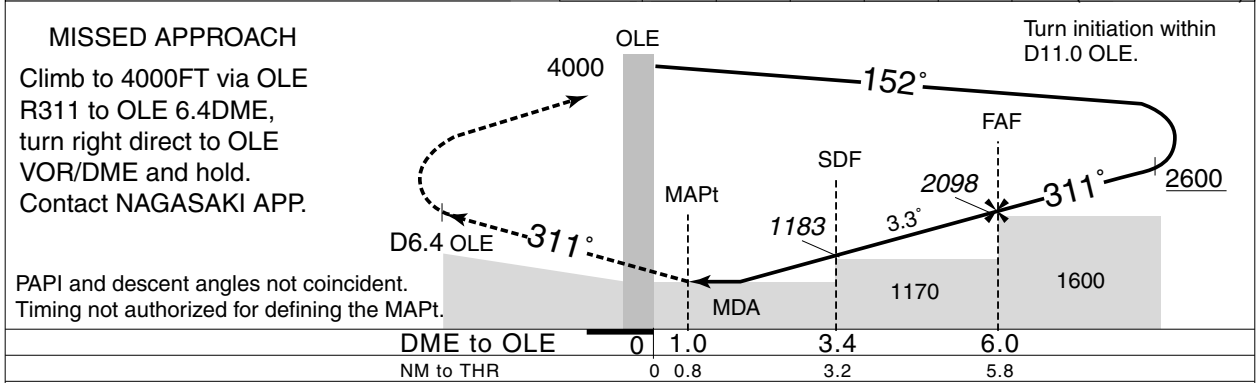
RJFU / NAGASAKI

VOR RWY32

NAGASAKI APP 119.175 - 121.025 261.2 - 288.1 - 362.3	NAGASAKI VOR/DME 116.6 OLE $\overline{\text{---}}$ CH-113X 32°54'19"N/129°55'05"E	NAGASAKI TOWER 118.5 - 126.2 - 122.7 236.8	RADAR AVAILABLE ATIS 126.85
--	--	--	------------------------------------



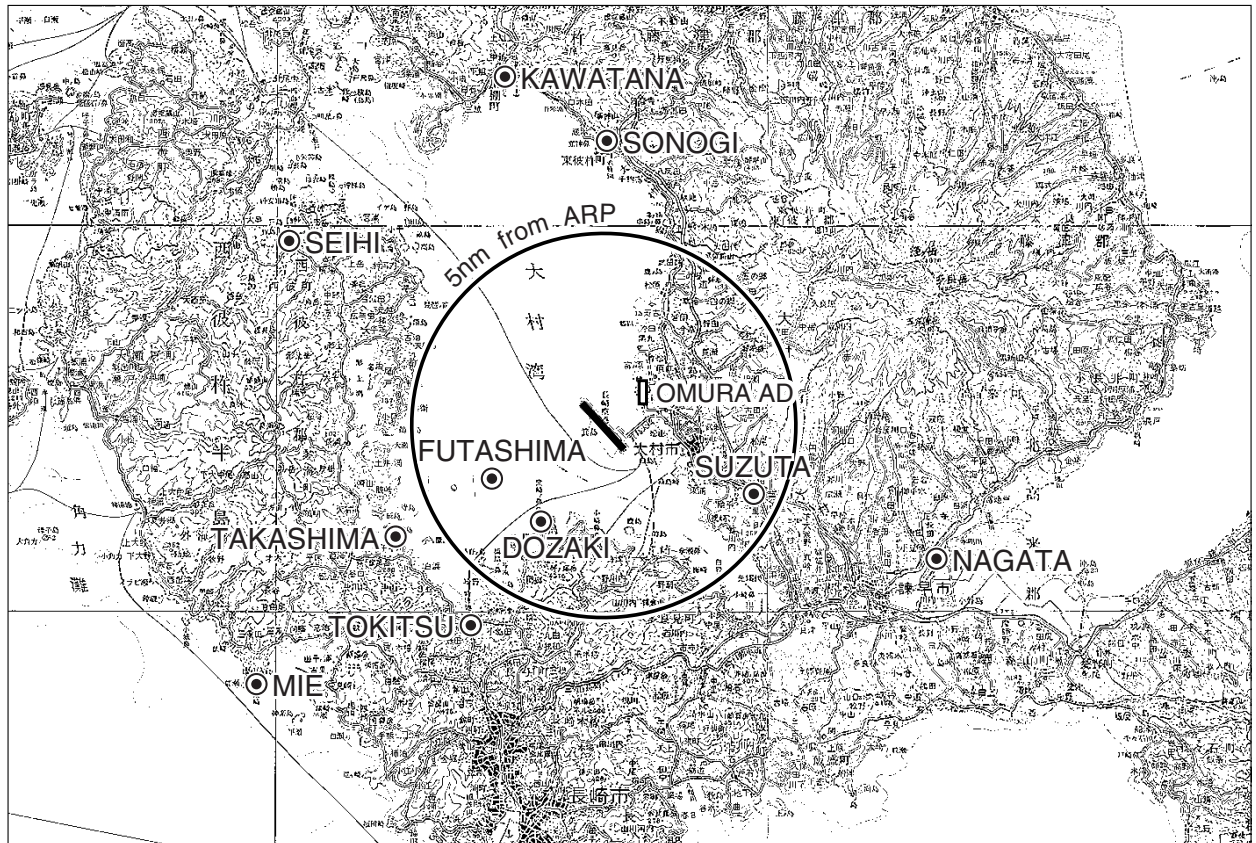
FAF : 325055.82N/1300058.17E



MINIMA		THR elev. 15		AD elev. 8	
CAT			CIRCLING		
	MDA(H)	RVR/CMV	MDA(H)	VIS	
A	570 (562)	1000	620 (612)	1600	
B		1200		2400	
C			1600	3200	
D					

RJFU / NAGASAKI

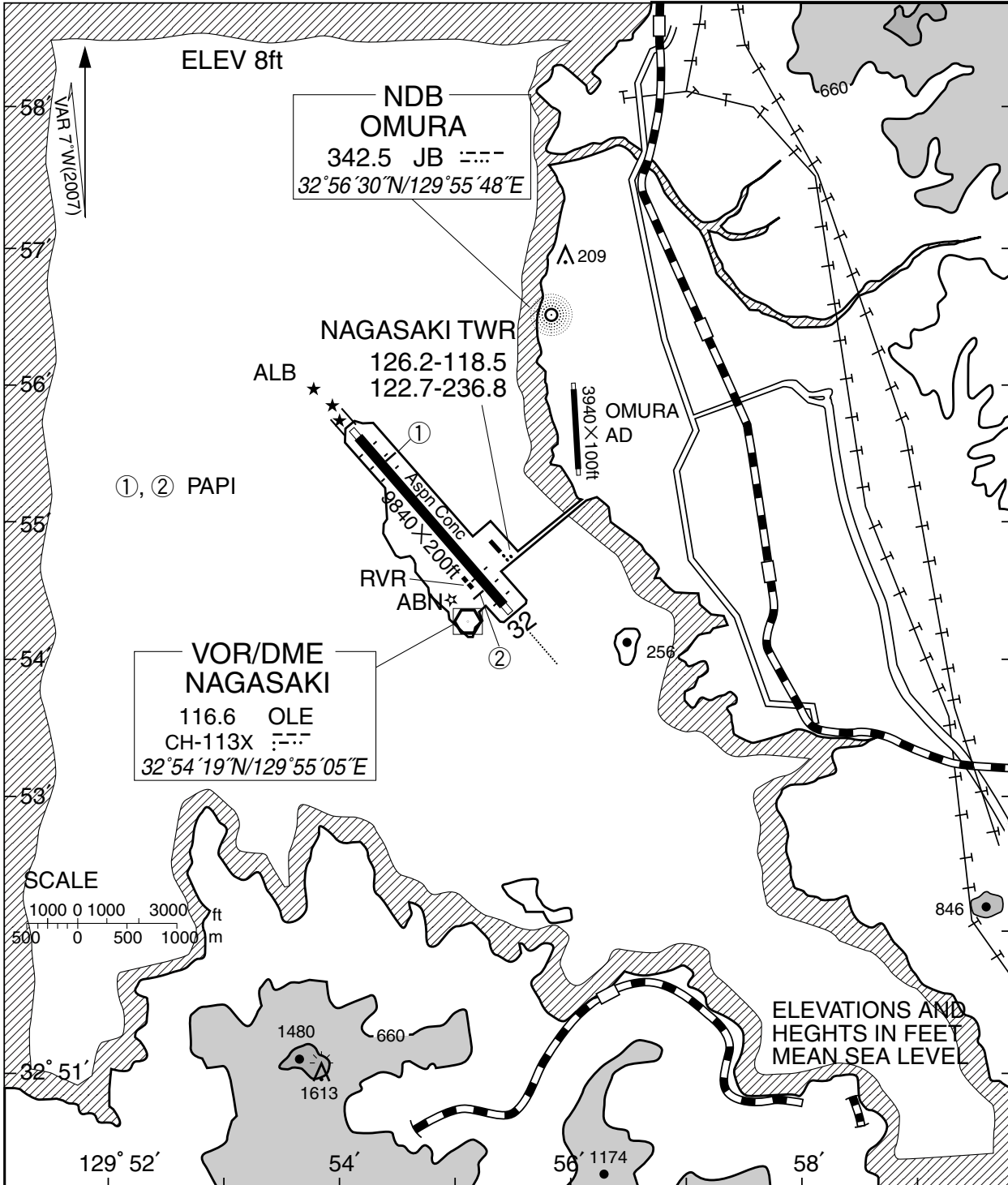
Visual REP



Call sign	BRG / DIST from ARP	Remarks
彼 杵 Sonogi	005° / 7.5NM	JR駅 JR Station
長 田 Nagata	118° / 9.4NM	不知火橋 Bridge
鈴 田 Suzuta	120° / 4.3NM	九州自動車道と国道34号線の交点 Intersection
時 津 Tokitsu	219° / 6.0NM	時津港 Harbor
堂 崎 Dozaki	227° / 2.7NM	堂崎鼻 A point of land
三 重 Mie	240° / 11.0NM	三重崎 A point of land
鷹 島 Takashima	251° / 5.4NM	鷹島 Island
二 島 Futashima	252° / 3.2NM	二島 Island
西 彼 Seihi	307° / 9.2NM	オランダ村 Windmill
川 棚 Kawatana	350° / 9.3NM	JR駅 JR Station

RJFU / NAGASAKI

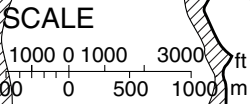
LDG CHART



VOR/DME NAGASAKI
116.6 OLE
CH-113X
32°54'19"N/129°55'05"E

NDB OMURA
342.5 JB
32°56'30"N/129°55'48"E

NAGASAKI TWR
126.2-118.5
122.7-236.8

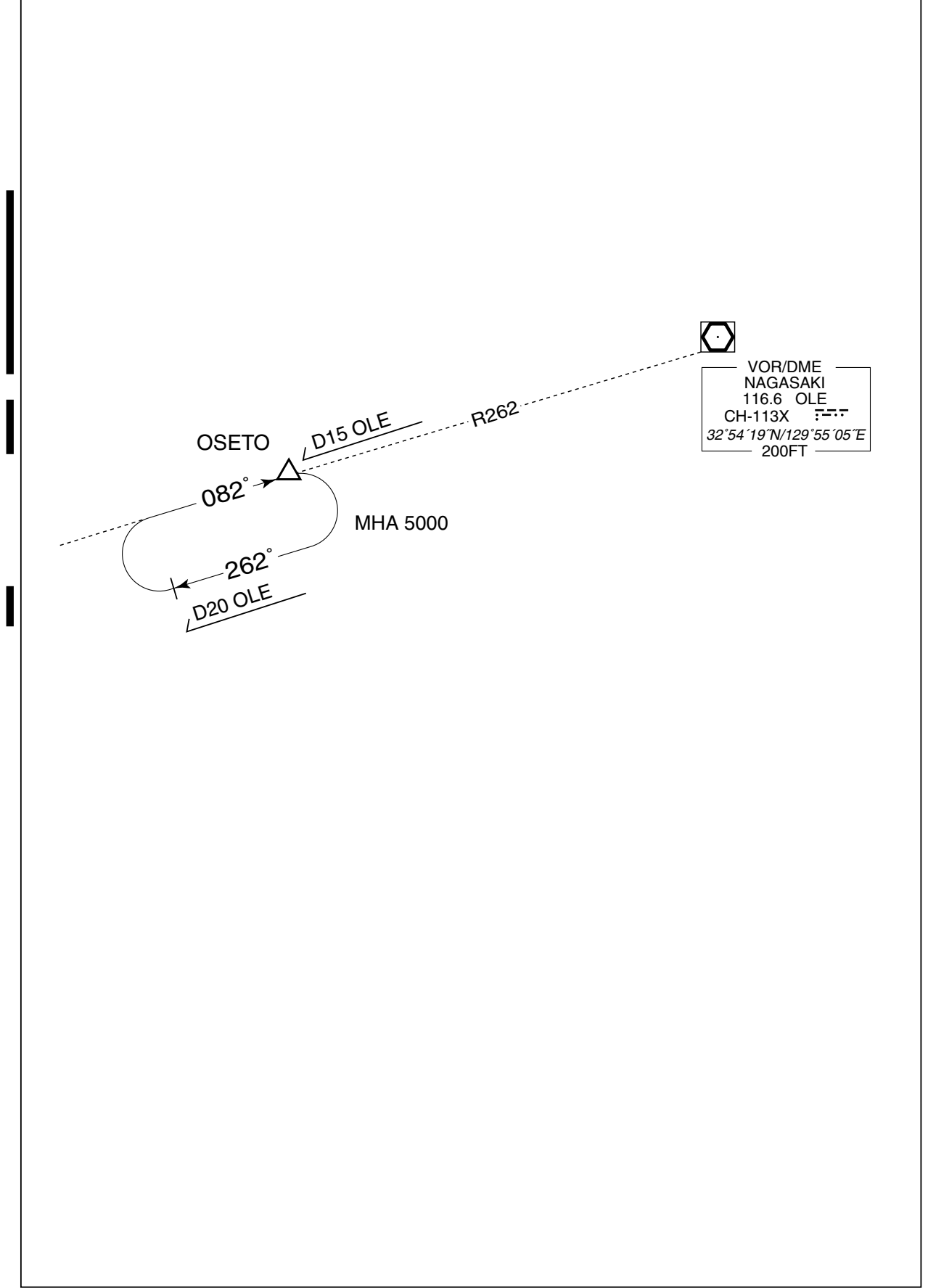


ELEVATIONS AND HEIGHTS IN FEET MEAN SEA LEVEL

<p>1 PAPI Angle 3.0° MEHT 22.5m(74ft) 471m FM THR</p>	<p>2 PAPI Angle 3.0° MEHT 19.7m(65ft) 444m FM THR</p>
---	---

RJFU / NAGASAKI

HOLDING PATTERN



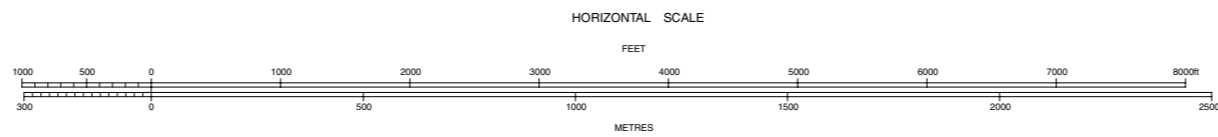
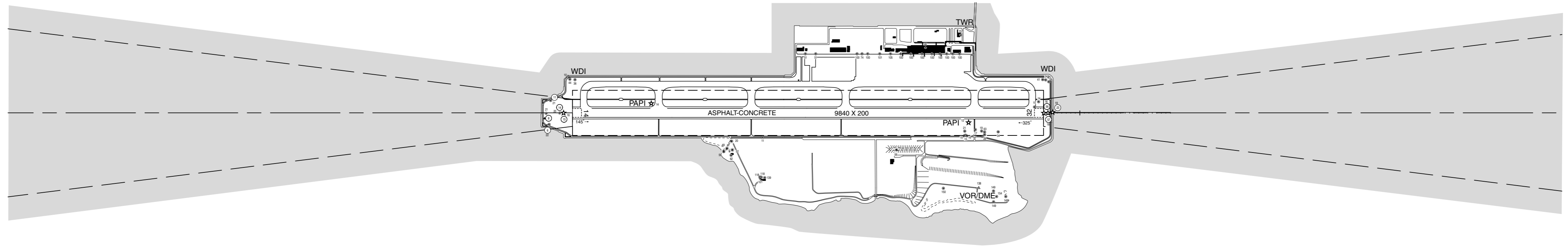
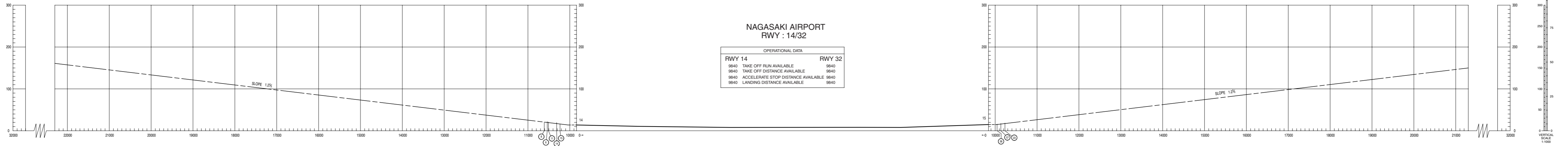
AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

MAGNETIC VARIATION 6°41' W-JUN 2010

NAGASAKI AIRPORT
RWY : 14/32

OPERATIONAL DATA	
RWY 14	RWY 32
9840 TAKE OFF RUN AVAILABLE	9840
9840 TAKE OFF DISTANCE AVAILABLE	9840
9840 ACCELERATE STOP DISTANCE AVAILABLE	9840
9840 LANDING DISTANCE AVAILABLE	9840



LEGEND		AMENDMENT RECORD		
○	IDENTIFICATION NUMBER	N°	DATE	ENTERED BY
⊙	POLE, TOWER, SPIRE, ANTENNA, ETC.			
*	TREE			
▬	LEVEE			
△	TRIANGULATION POINT			
★	AERONAUTICAL GROUND LIGHT			
—	RIVER			

STANDARD DEPARTURE CHART -INSTRUMENT

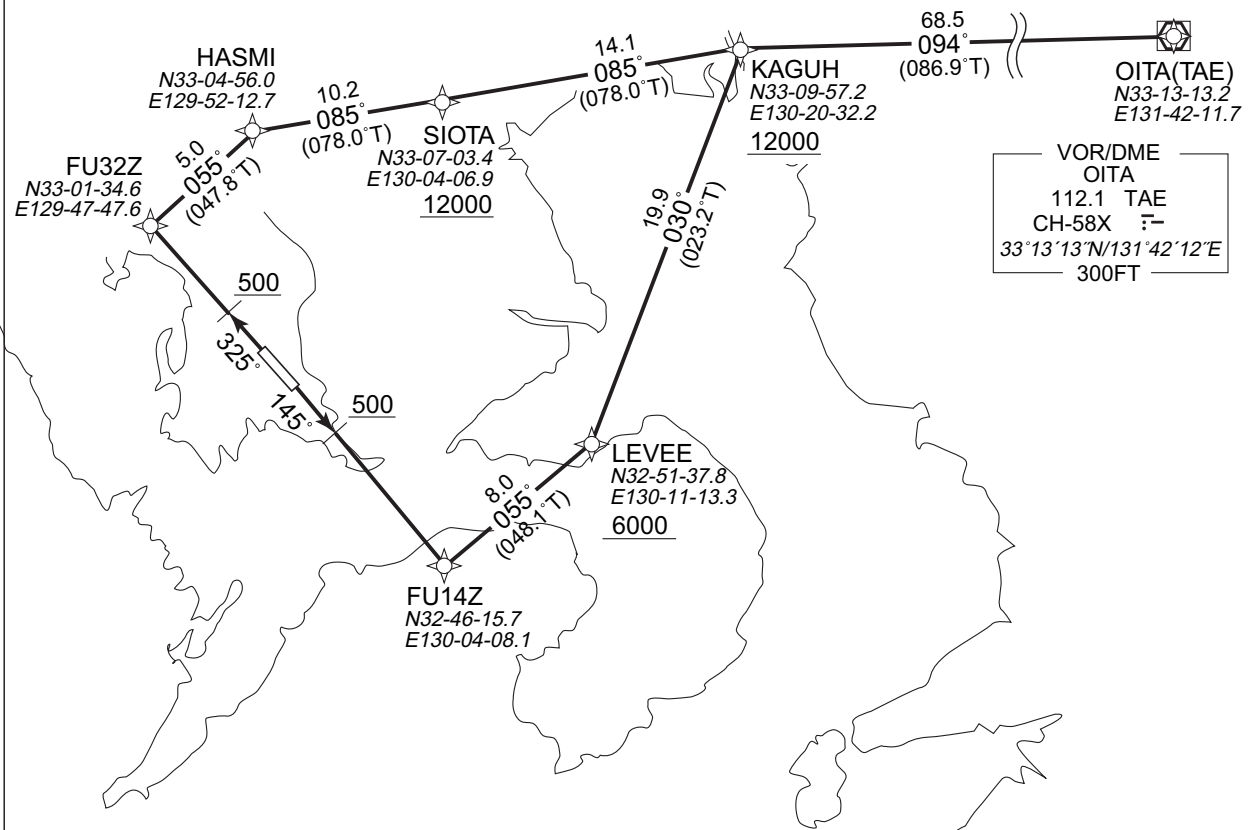
RJFU / NAGASAKI

➔ RNAV SID and TRANSITION

CHIKUGO ONE RNAV DEPARTURE		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 roll. 2) RADAR service required.	Critical DME	RWY14 SGE: 3NM to FU14Z - 6NM to LEVEE RWY32 SGE: 2NM to FU32Z - FU32Z
	DME GAP	RWY14 RWY14 DER - 3NM to FU14Z RWY32 RWY32 DER - 2NM to FU32Z
	Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

VAR 7° W(2010)

Note RWY14 : 4.5% climb gradient required up to 1500FT.



CHIKUGO ONE RNAV DEPARTURE

RWY14 : Climb on HDG145° at or above 500FT, direct to FU14Z, to LEVEE at or above 6000FT, to KAGUH at or above 12000FT.

RWY32 : Climb on HDG325° at or above 500FT, direct to FU32Z, to HASMI, to SIOTA at or above 12000FT, to KAGUH.

OITA TRANSITION

From KAGUH, to OITA(TAE).

Note RWY14 : 4.5% climb gradient required up to 1500FT.

*OBST ALT 1378FT located at 6.88NM 151° FM end of RWY14.

STANDARD DEPARTURE CHART -INSTRUMENT

RJFU / NAGASAKI

➔ RNAV SID and TRANSITION

CHIKUGO ONE RNAV DEPARTURE

RWY14

Rcmd. Path Terminator	Fix ID (Waypoint Name)	Fly Over	Distance (NM)	MAG Track (TRUE Track)	Turn Direction	Altitude (FT)	Speed Limit (KIAS)	Vertical Angle	Navigation Performance
VA	—	—	—	145° (138.3°)	—	+500	—	—	RNAV1
DF	FU14Z	—	—	—	L	—	—	—	RNAV1
TF	LEVEE	—	8.0	055° (048.1°)	L	+6000	—	—	RNAV1
TF	KAGUH	—	19.9	030° (023.2°)	—	+12000	—	—	RNAV1

RWY32

Rcmd. Path Terminator	Fix ID (Waypoint Name)	Fly Over	Distance (NM)	MAG Track (TRUE Track)	Turn Direction	Altitude (FT)	Speed Limit (KIAS)	Vertical Angle	Navigation Performance
VA	—	—	—	325° (318.3°)	—	+500	—	—	RNAV1
DF	FU32Z	—	—	—	R	—	—	—	RNAV1
TF	HASMI	—	5.0	055° (047.8°)	R	—	—	—	RNAV1
TF	SIOTA	—	10.2	085° (078.0°)	—	+12000	—	—	RNAV1
TF	KAGUH	—	14.1	085° (078.0°)	—	—	—	—	RNAV1

OITA TRANSITION

Rcmd. Path Terminator	Fix ID (Waypoint Name)	Fly Over	Distance (NM)	MAG Track (TRUE Track)	Turn Direction	Altitude (FT)	Speed Limit (KIAS)	Vertical Angle	Navigation Performance
IF	KAGUH	—	—	—	—	+12000	—	—	RNAV1
TF	OITA (TAE)	—	68.5	094° (086.9°)	—	—	—	—	RNAV1

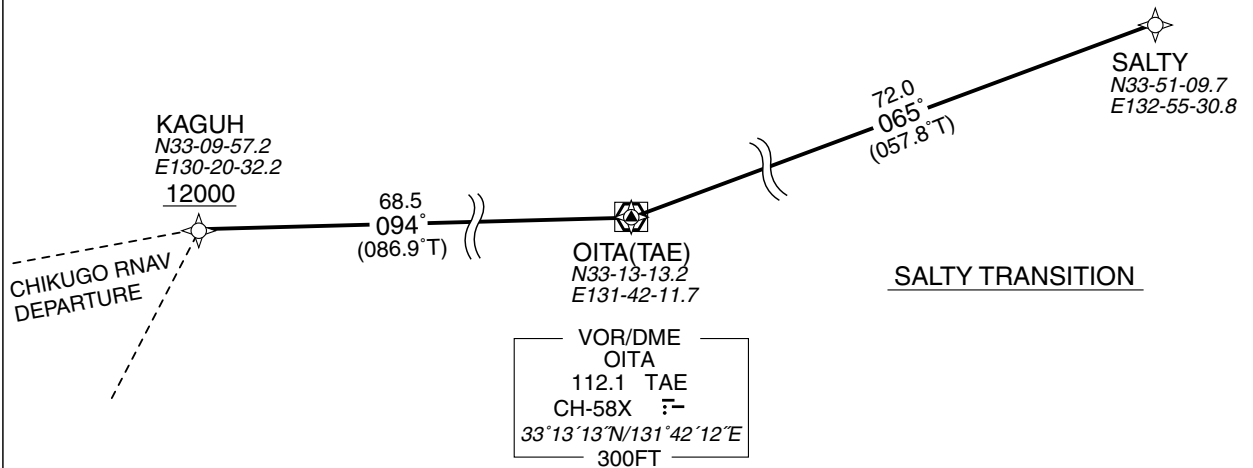
STANDARD DEPARTURE CHART -INSTRUMENT

RJFU / NAGASAKI

➔ RNAV TRANSITION

SALTY TRANSITION		RNAV1
Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required.	Critical DME	-
	DME GAP	-
	Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

VAR 7° W(2012)

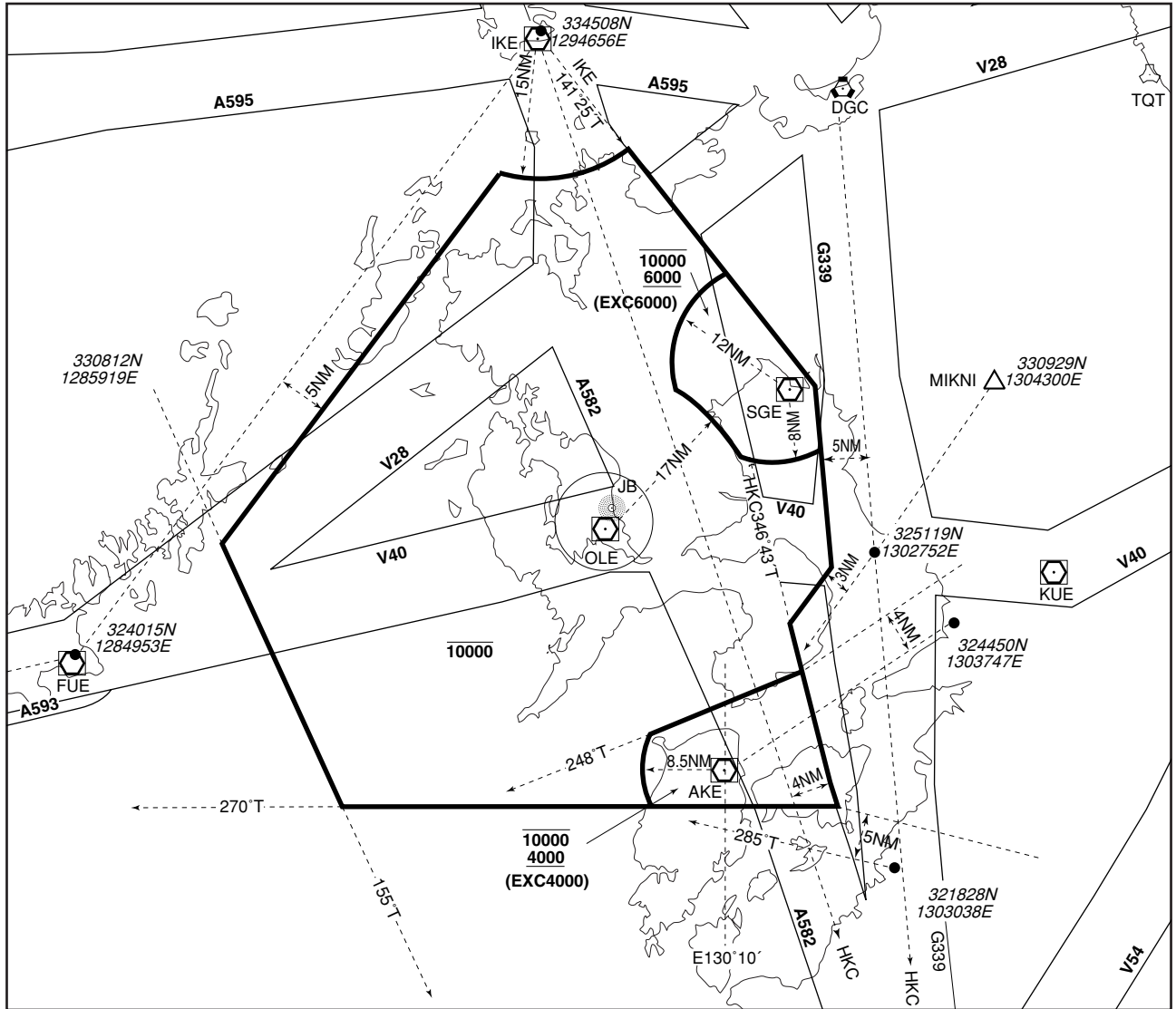


SALTY TRANSITION

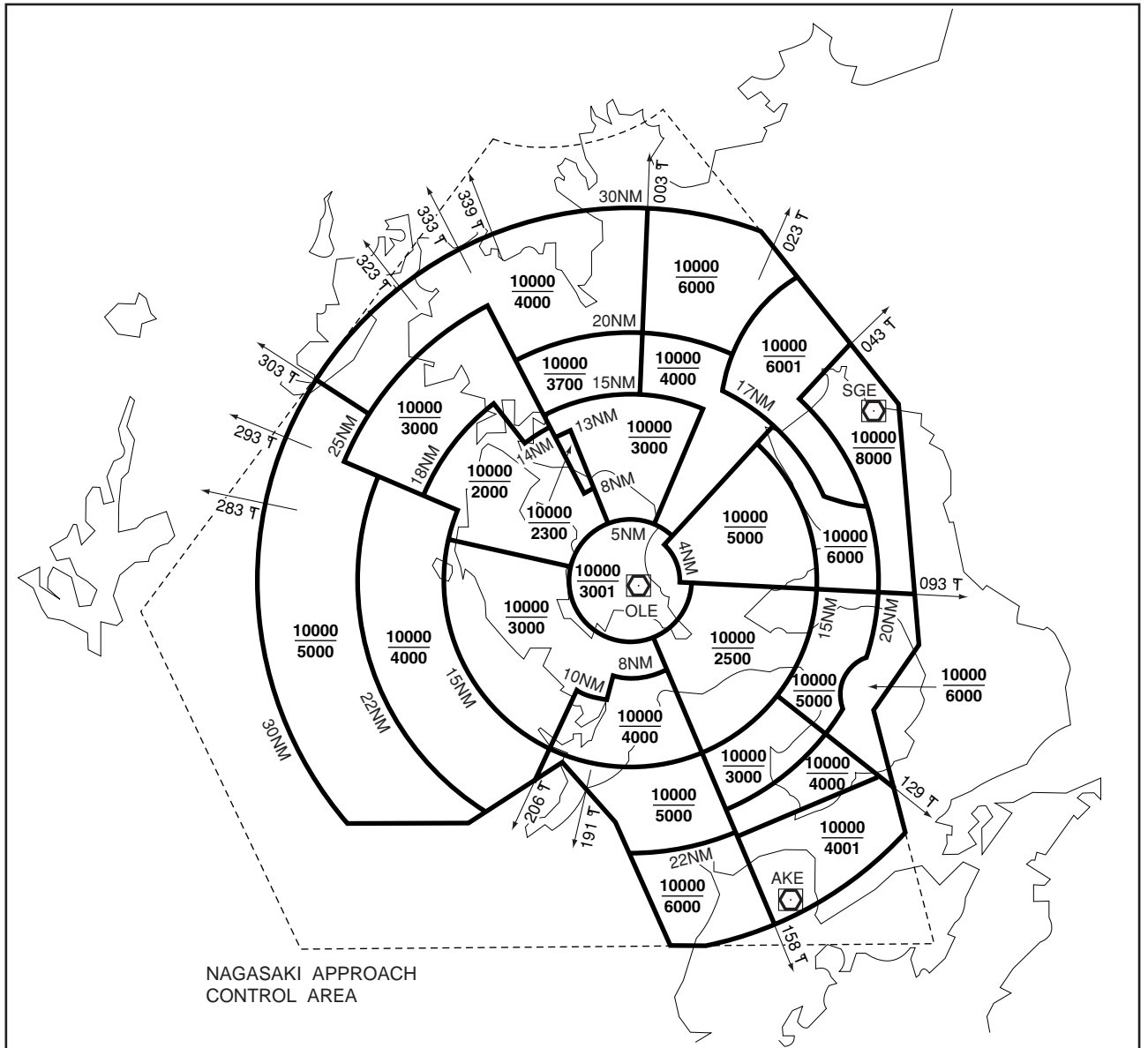
From KAGUH at or above 12000FT, to OITA(TAE), to SALTY.

Rcmd. Path Terminator	Fix ID (Waypoint Name)	Fly Over	Distance (NM)	MAG Track (TRUE Track)	Turn Direction	Altitude (FT)	Speed Limit (kt)	Vertical Angle	Navigation Performance
IF	KAGUH	—	—	—	—	+12000	—	—	RNAV1
TF	OITA(TAE)	—	68.5	094° (086.9°)	—	—	—	—	RNAV1
TF	SALTY	—	72.0	065° (057.8°)	—	—	—	—	RNAV1

長崎進入管制区
Nagasaki Approach Control Area

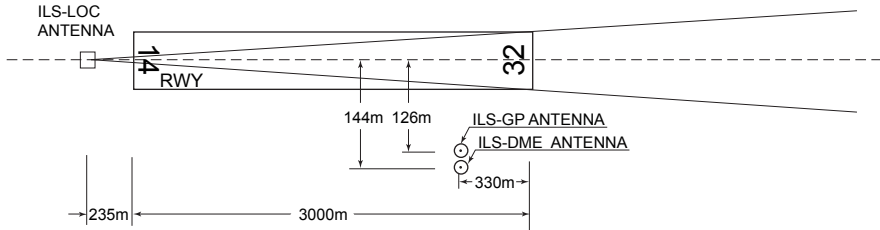


長崎ターミナルコントロールエリア
Nagasaki Terminal Control Area



NAGASAKI AP

ILS



REMARKS : 1. LOC beam BRG(MAG) 324 °
2. HGT of ILS REF datum 16.2m (53ft)
3. GP Angle 3.0°
4. ELEV of ILS-DME 9.0m (30ft)