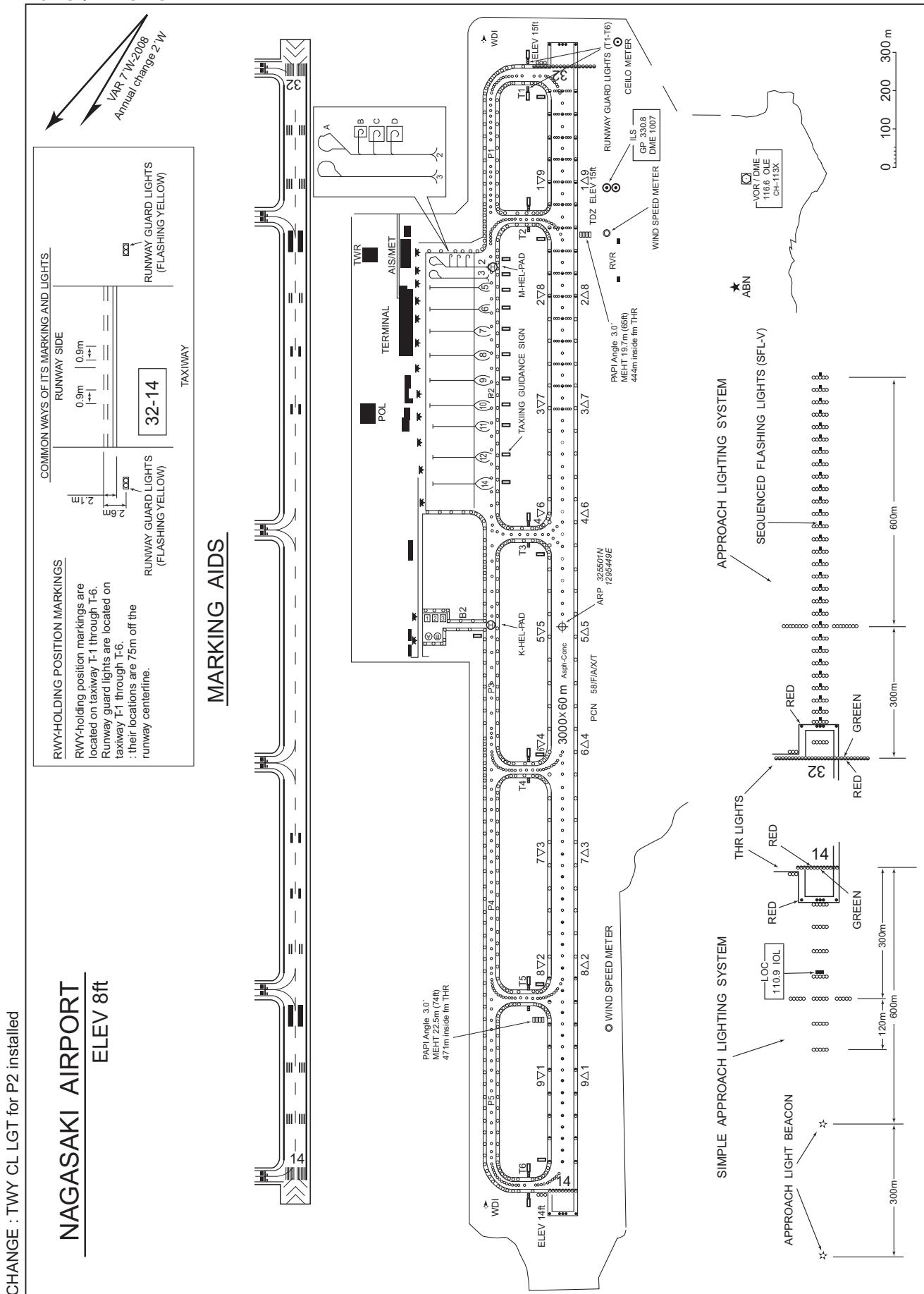


RJFU / NAGASAKI

AD CHART



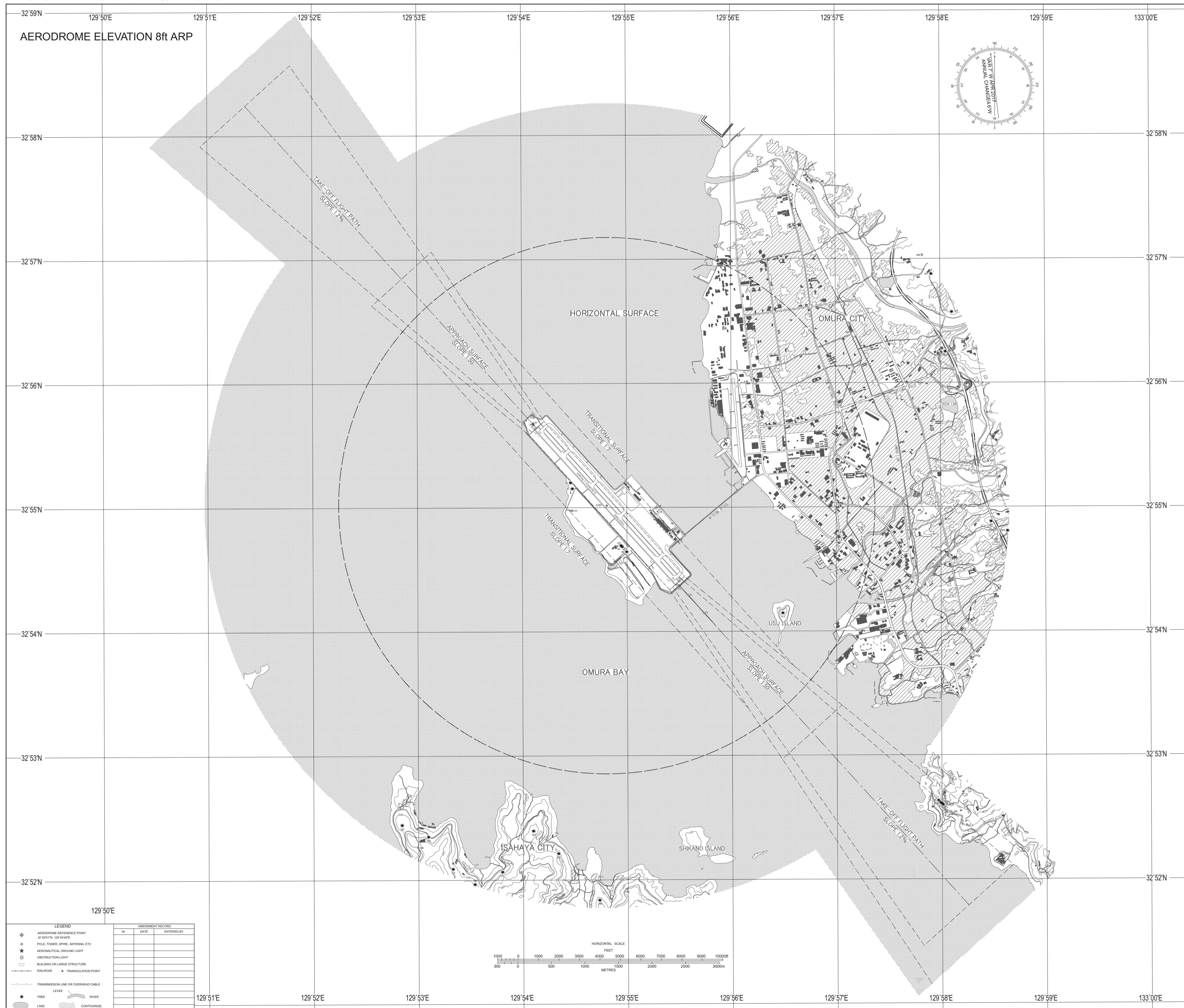
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DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC



AERODROME OBSTACLE CHART-ICAO TYPE B

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC



STANDARD DEPARTURE CHART -INSTRUMENT

RJFU / NAGASAKI

SID

NORTH NINE 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,...

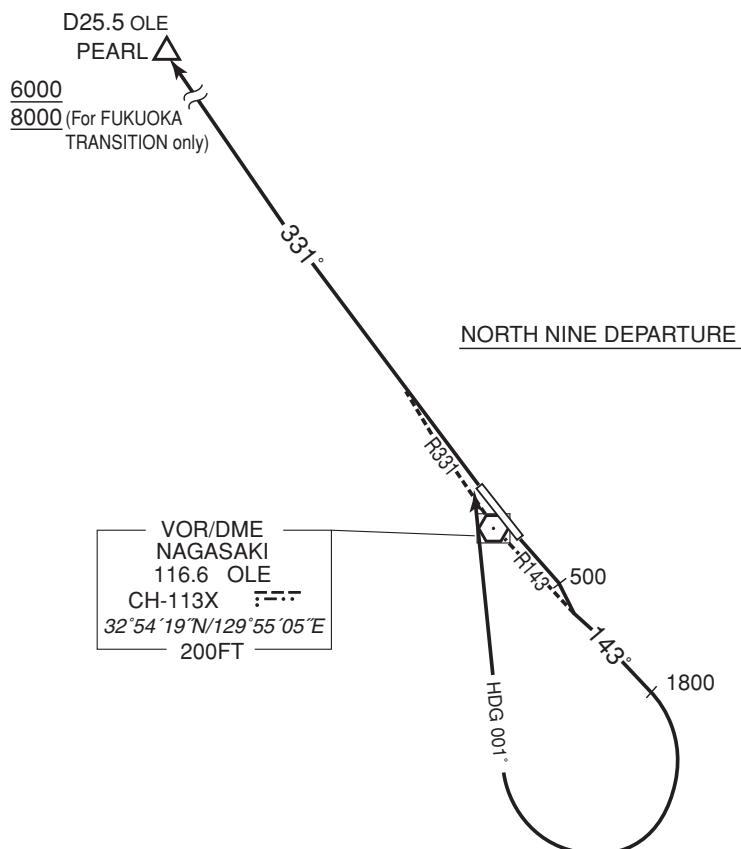
RWY 32: Climb via OLE R331 to PEARL,...

... Cross PEARL at or above 6000FT(*).

* For FUKUOKA TRANSITION : Cross PEARL at or above 8000FT.

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

CHANGE : SID renamed



STANDARD DEPARTURE CHART -INSTRUMENT

RJFU / NAGASAKI

TRANSITION

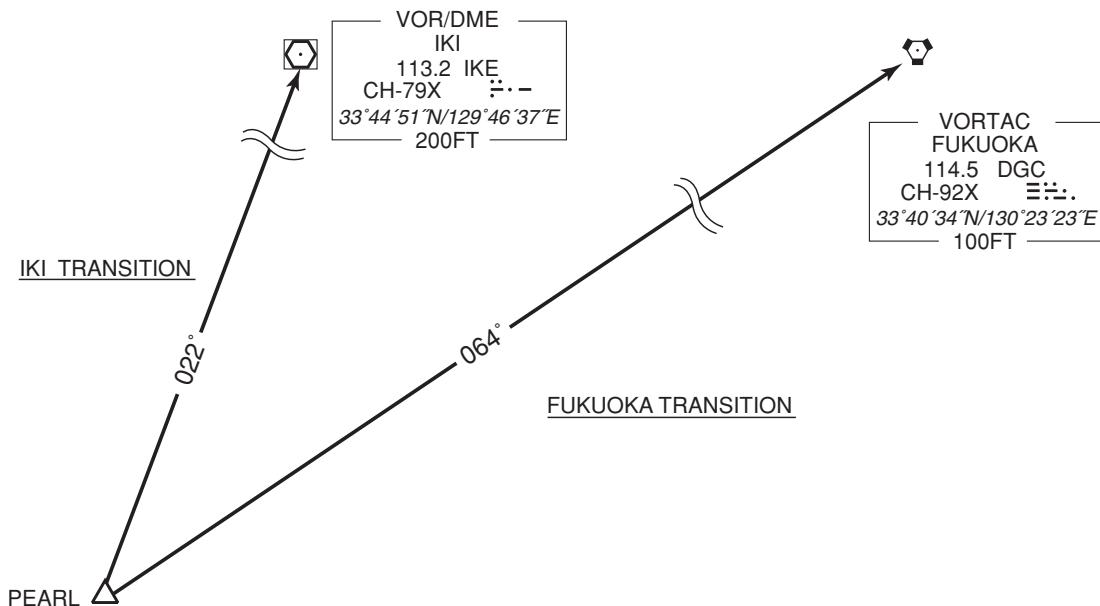
FUKUOKA TRANSITION

From over PEARL, via DGC R244 to DGC VORTAC.

Note : Not applicable for aircraft equipped with TACAN only.

IKI TRANSITION

From over PEARL, 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.

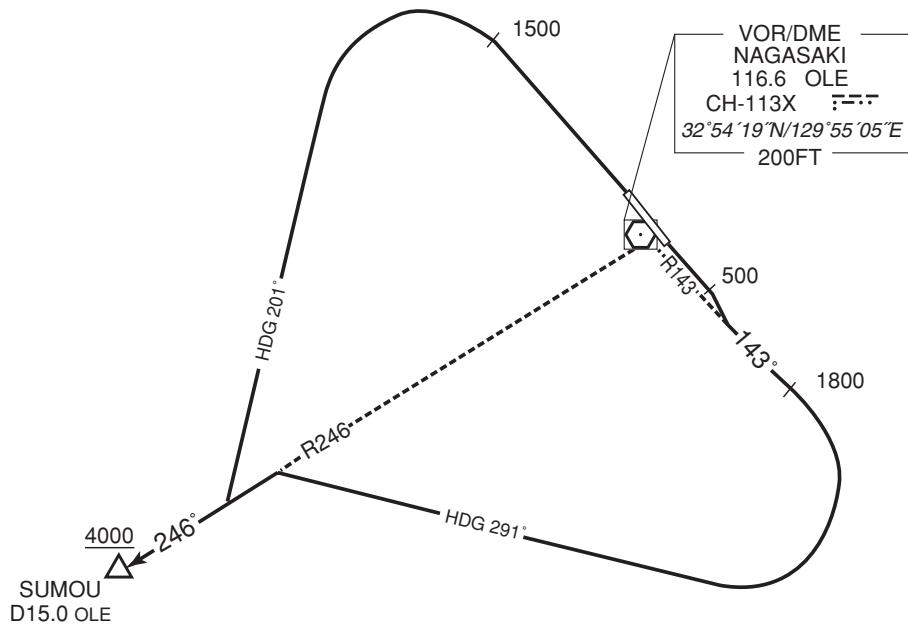
Note RWY 14: 5.0% climb gradient required up to 1800FT.

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.

WEST SIX DEPARTURE



STANDARD DEPARTURE CHART -INSTRUMENT

RJFU / NAGASAKI

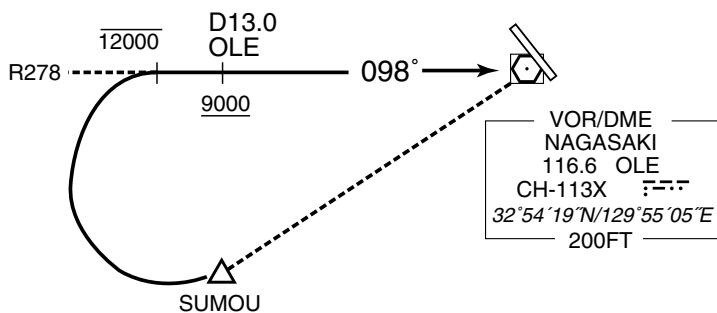
TRANSITION

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.

OMURA TRANSITIONCARCO 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.

CARCO TRANSITION

STANDARD DEPARTURE CHART -INSTRUMENT

RJFU / NAGASAKI

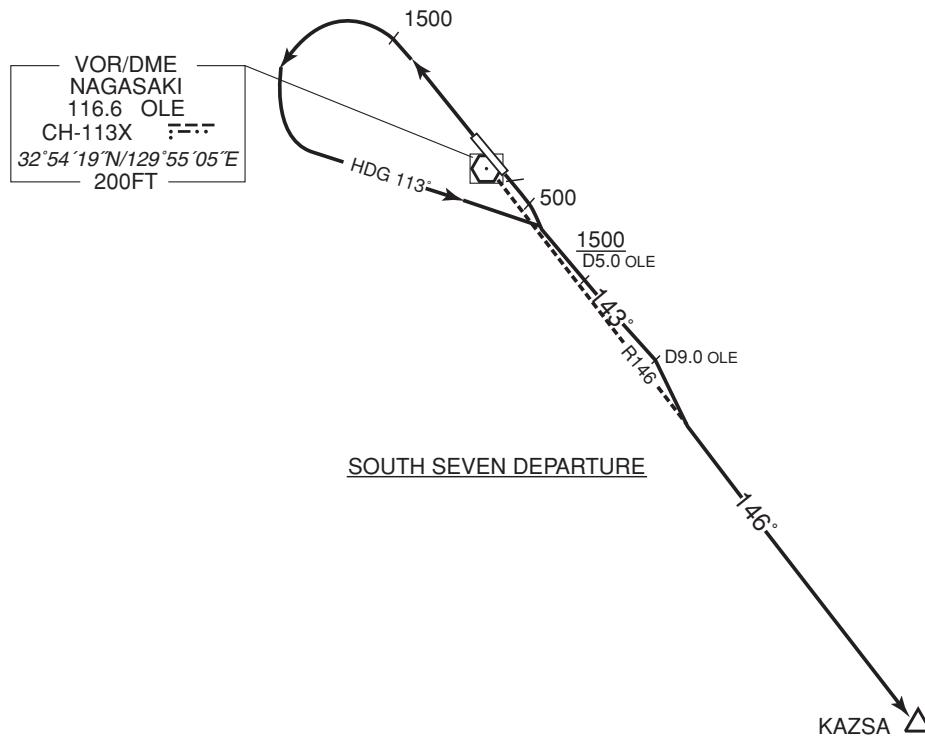
SID

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

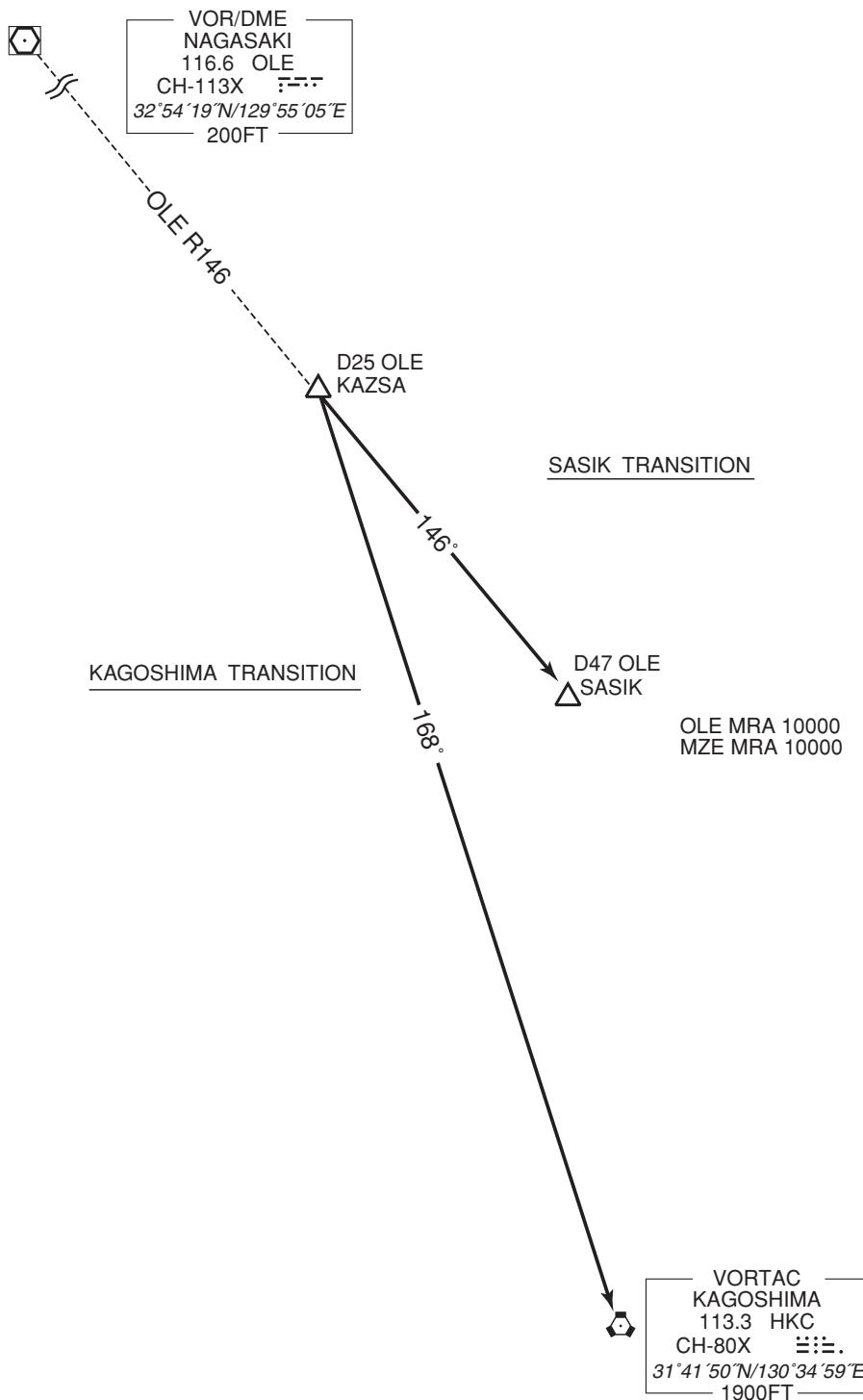
TRANSITION

SASIK TRANSITION

From over KAZSA, via OLE R146 to SASIK.

KAGOSHIMA TRANSITION

From over KAZSA, via HKC R348 to HKC VORTAC.



STANDARD DEPARTURE CHART -INSTRUMENT

RJFU / NAGASAKI

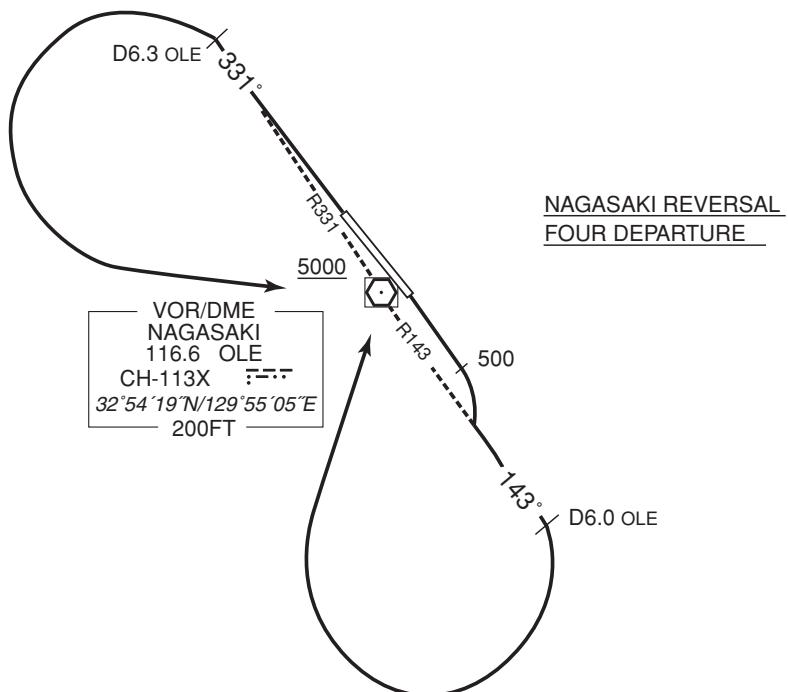
SID

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 DEPARTURE CHART -INSTRUMENT

RJFU / NAGASAKI

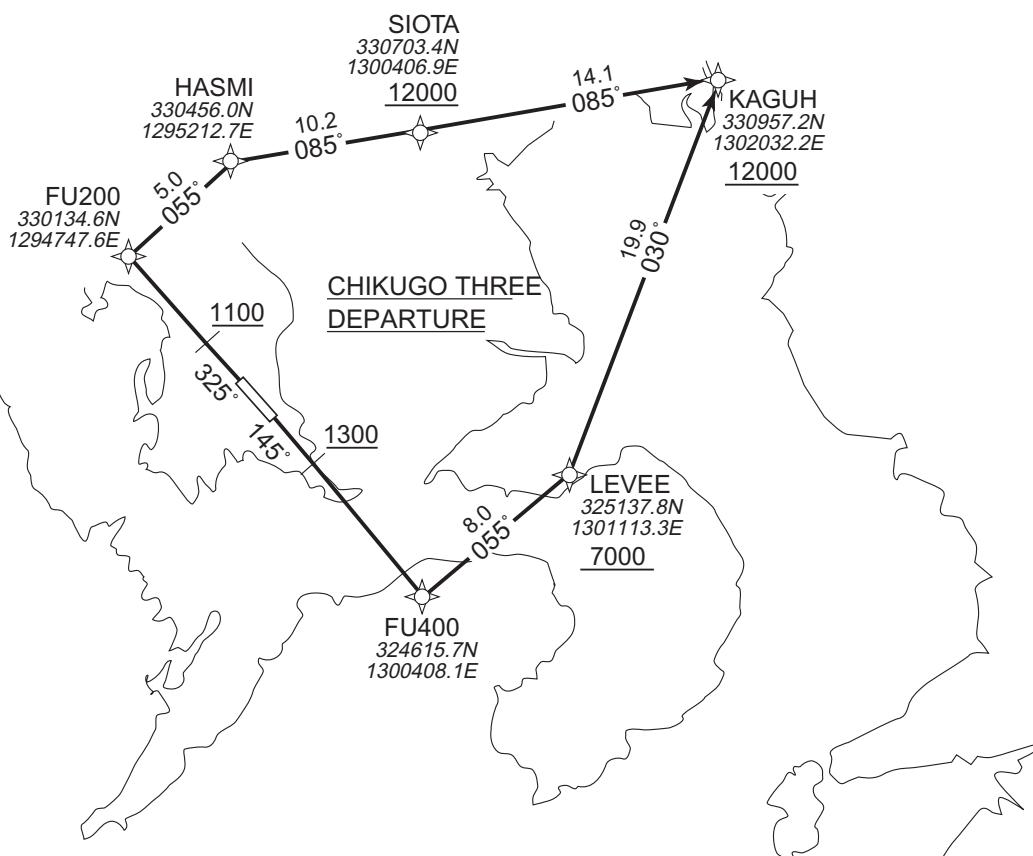
RNAV SID

CHIKUGO THREE 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 FU400 - 6NM to LEVEE RWY32 SGE: 2NM to FU200 - FU200
	DME GAP	RWY14 RWY14 DER - 3NM to FU400 RWY32 RWY32 DER - 2NM to FU200
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

VAR 7° W(2019)



CHANGE : PROC renamed. VAR. ALT Restriction of LEVEE.

CHIKUGO THREE DEPARTURE

RWY14 : Climb on HDG145° at or above 1300FT, direct to FU400 to LEVEE at or above 7000FT, to KAGUH at or above 12000FT.

RWY32 : Climb on HDG325° at or above 1100FT, direct to FU200, to HASMI, to SIOTA at or above 12000FT, to KAGUH.

NOTE RWY14 : 4.5% climb gradient required up to 1300FT.

OBST ALT 919FT located at 4.1NM 129° FM end of RWY14.

RWY32 : 5.0% climb gradient required up to 1100FT.

OBST ALT 2067FT located at 9.8NM 013° FM end of RWY32.

STANDARD DEPARTURE CHART -INSTRUMENT

RJFU / NAGASAKI

RNAV SID

CHIKUGO THREE DEPARTURE

RWY14

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	—	—	145 (138.1)	-7.4	—	—	+1300	—	—	RNAV1
002	DF	FU400	—	—	-7.4	—	—	—	—	—	RNAV1
003	TF	LEVEE	—	055 (047.9)	-7.4	8.0	—	+7000	—	—	RNAV1
004	TF	KAGUH	—	030 (023.0)	-7.4	19.9	—	+12000	—	—	RNAV1

RWY32

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	—	—	325 (318.1)	-7.4	—	—	+1100	—	—	RNAV1
002	DF	FU200	—	—	-7.4	—	—	—	—	—	RNAV1
003	TF	HASMI	—	055 (047.8)	-7.4	5.0	—	—	—	—	RNAV1
004	TF	SIOTA	—	085 (077.9)	-7.4	10.2	—	+12000	—	—	RNAV1
005	TF	KAGUH	—	085 (078.0)	-7.4	14.1	—	—	—	—	RNAV1

CHANGE : PROC renamed. VAR, ALT Restriction of LEVEE.

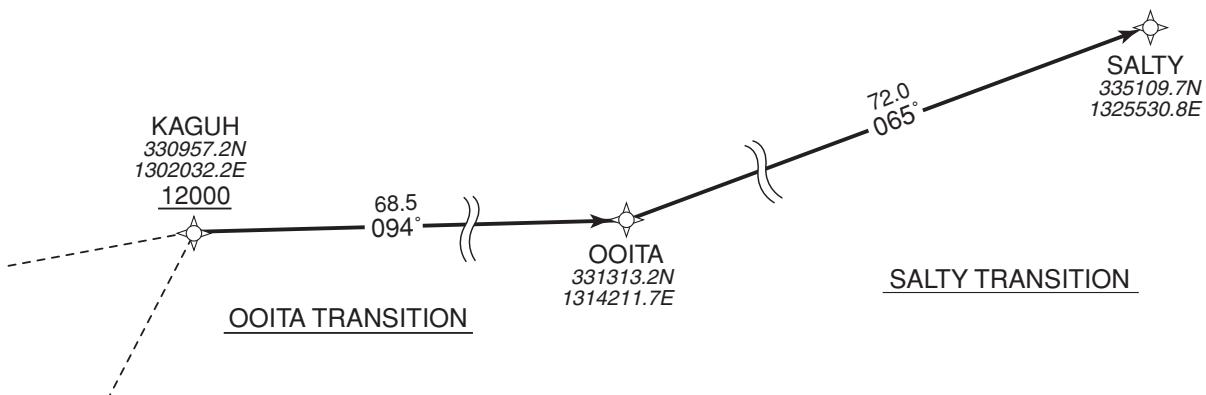
STANDARD DEPARTURE CHART -INSTRUMENT

RJFU / NAGASAKI

RNAV TRANSITION

SALTY TRANSITION / OOITA TRANSITION			RNAV1
Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required.	Critical DME	—	—
	DME GAP	—	—
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDS for RNAV1	

VAR 7° W(2016)

SALTY TRANSITION

From KAGUH at or above 12000FT, to OOITA, to SALTY.

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	KAGUH	—	—	-7.1	—	—	+12000	—	—	RNAV1
002	TF	OOITA	—	094 (086.9)	-7.1	68.5	—	—	—	—	RNAV1
003	TF	SALTY	—	065 (057.8)	-7.1	72.0	—	—	—	—	RNAV1

OOITA TRANSITION

From KAGUH at or above 12000FT, to OOITA.

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	KAGUH	—	—	-7.1	—	—	+12000	—	—	RNAV1
002	TF	OOITA	—	094 (086.9)	-7.1	68.5	—	—	—	—	RNAV1

STANDARD ARRIVAL CHART-INSTRUMENT



STANDARD ARRIVAL CHART-INSTRUMENT

RJFU / NAGASAKI

RNAV STAR

SARUKU ARRIVAL

From OHGIE at or above 11000FT, to GLOVR at or above 7000FT, to OTAXA at or above 4000FT, to SARUK at or above 3700FT.

Critical DME	-		
DME GAP	-		
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1		

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	OHGIE	-	-	-7.4	-	-	+11000	-	-	RNAV1
002	TF	GLOVR	-	237 (229.3)	-7.4	9.2	-	+7000	-	-	RNAV1
003	TF	OTAXA	-	237 (229.2)	-7.4	6.1	-	+4000	-	-	RNAV1
004	TF	SARUK	-	237 (229.2)	-7.4	6.2	-	+3700	-	-	RNAV1

FUBUKI ARRIVAL

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

Critical DME	OLE	OBAMA - FUBKI
	SGE	OBAMA - FUBKI
DME GAP	-	
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1	

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	OHGIE	-	-	-7.4	-	-	+11000	-	-	RNAV1
002	TF	PADDY	-	190 (183.1)	-7.4	6.8	-	-	-	-	RNAV1
003	TF	TARAH	-	190 (183.1)	-7.4	10.9	-	+7000	-	-	RNAV1
004	TF	TAKAK	-	190 (183.0)	-7.4	8.0	-	+5000	-	-	RNAV1
005	TF	OBAMA	-	190 (183.0)	-7.4	6.1	-	-	-230	-	RNAV1
006	TF	AINOH	-	235 (228.0)	-7.4	2.7	-	-	-210	-	RNAV1
007	TF	FUBKI	-	296 (288.2)	-7.4	2.7	-	+2600	-	-	RNAV1

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	TAKAK	190 (183.0)	-7.4	1.0(-14000) 1.5(+14001)	R	5000	-	-210(-14000) -240(+14001)	RNAV1

INSTRUMENT APPROACH CHART

RJFU / NAGASAKI

NAGASAKI APP
119.175 –121.025
261.2

ILS-LOC
110.9 IOL :-:-
ILS-GP 330.8
ILS-DME CH-46X

NAGASAKI TOWER
118.5 -126.2 -122.7
236.8

ILS 7 or LOC 7 RWY32

ATIS 126 85

VAR 7°W (2019)

EQPT REQUIRED
DME
VOR

1998
1643
081
VOR/DME
NAGASAKI
116.6 OLE
CH-113X
 $32^{\circ}54'19''N$ / $129^{\circ}55'05''E$

A diagram illustrating a turn maneuver. A curved arrow starts at a square symbol representing the aircraft's current position. The text "MHA 4000" and "MAX 230KIAS" is written above the start of the curve. Above the curve, the heading "156°" is indicated with a dashed line. Below the curve, the track "336°" is indicated with a dashed line. The text "OLE VOR/DME" is written below the end of the curve.

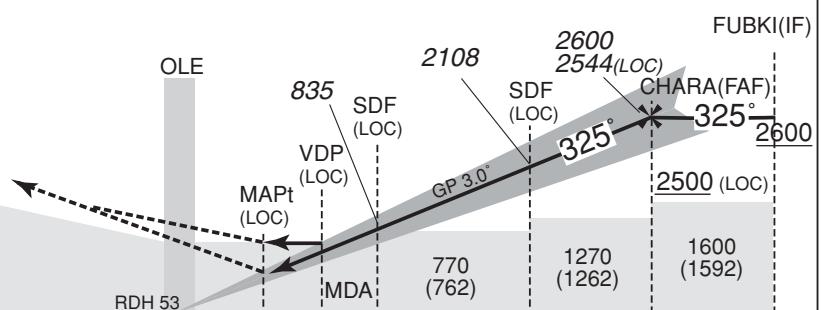


MISSED APPROACH

Climb to 500FT on HDG325°,
via OLE R324 to 3000FT, turn
left, direct to OLE VOR/DME
and hold at 4000FT.

and hold at 4000FT.
Contact NAGASAKI ARR

Timing not authorized for defining the MAPt



	0.2	0.6	1.4	2.6	6.6	8.0	10.0
DME to IOL	0	0.5	1.2	2.4	6.4	7.8	9.8
NM to THR	0	0.5	1.2	2.4	6.4	7.8	9.8

MINIMA

THB elev 15

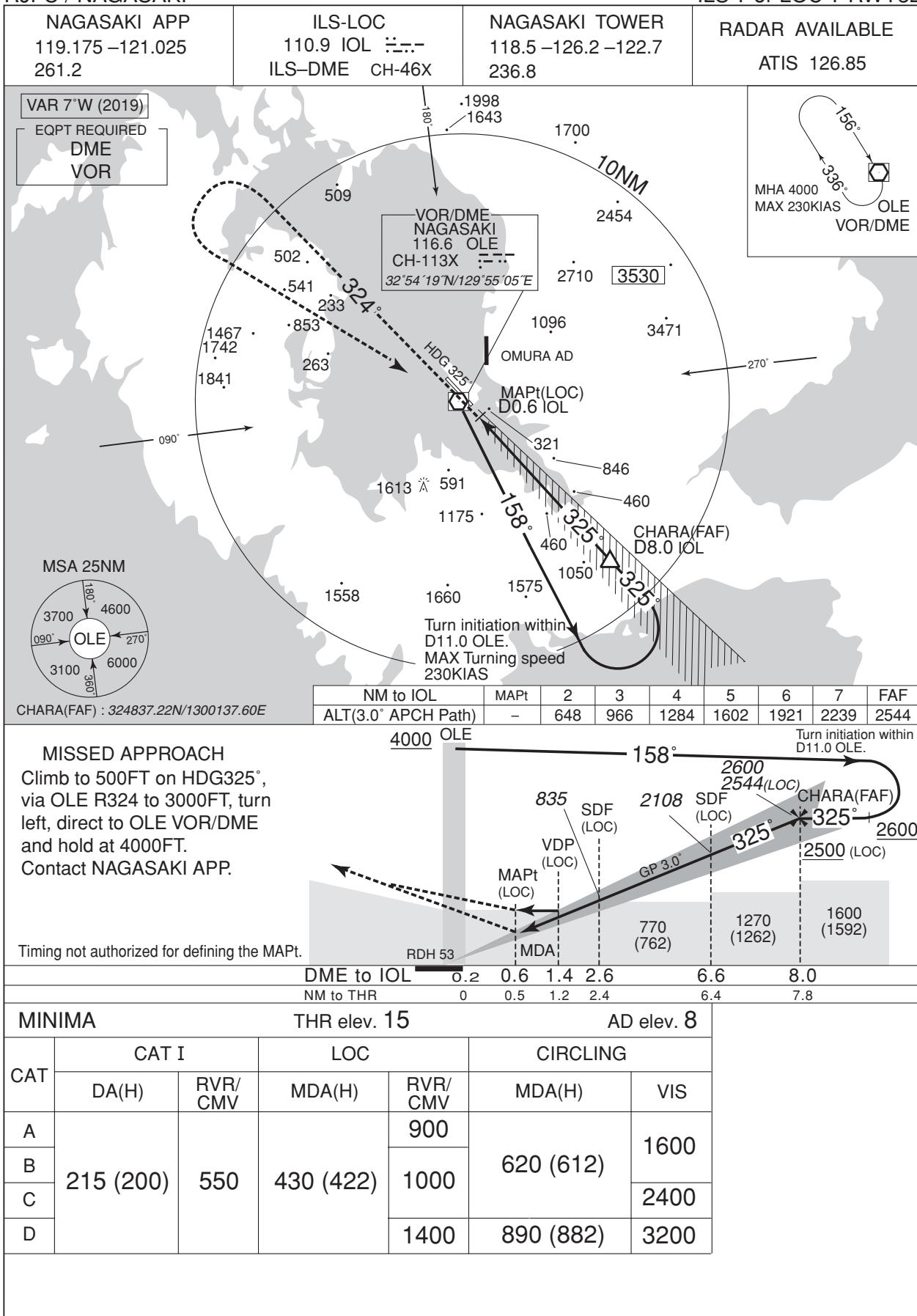
AD elev 8

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		2400
C				1400	890 (882)	3200
D						

CHANGE : VAR, Missed approach

INSTRUMENT APPROACH CHART

RJFU / NAGASAKI



INSTRUMENT APPROACH CHART

RJFU / NAGASAKI

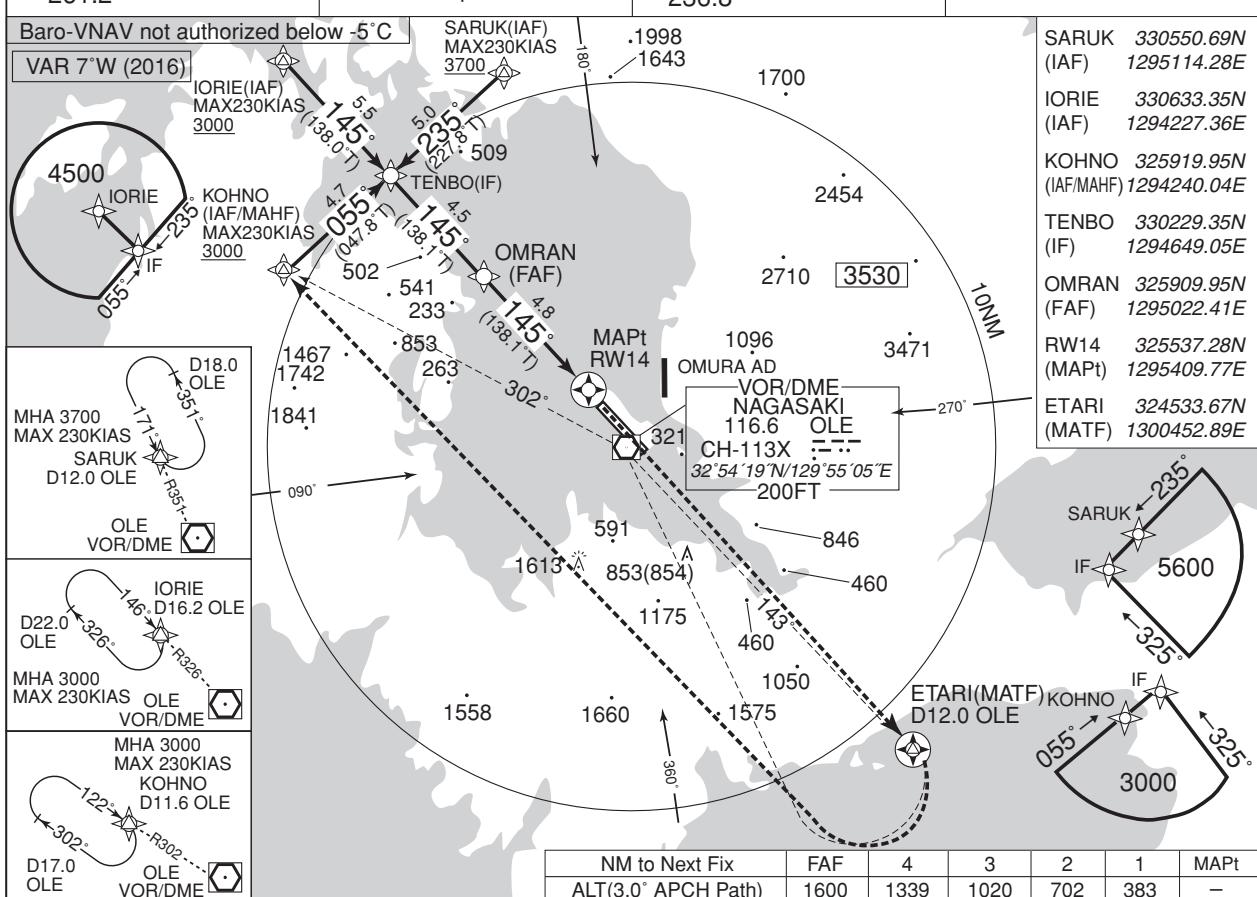
NAGASAKI APP
119.175 -121.025
261 2

1. DME/DME not authorized
 2. RADAR service required.
 3. GNSS required.

NAGASAKI TOWER
118.5 -126.2 -122.7
236.8

RNAV(GNSS) RWY14

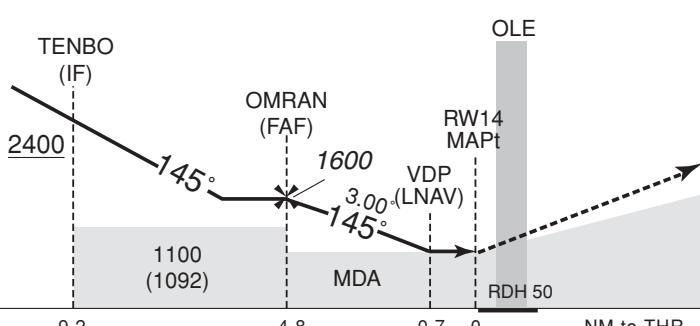
AT&T 100-65



MISSED APPROACH

Direct to ETARI, turn right direct to KOHNO and hold at 3000FT.
Contact NAGASAKI APP.

(For using VOR/DME)
Climb via OLE R143 to ETARI, turn right, direct to OLE VOR/DNE, via OLE R302 to KOHNO and hold at 3000FT.
Contact NAGASAKI APP.



Missed APCH climb gradient MNM 3.0%

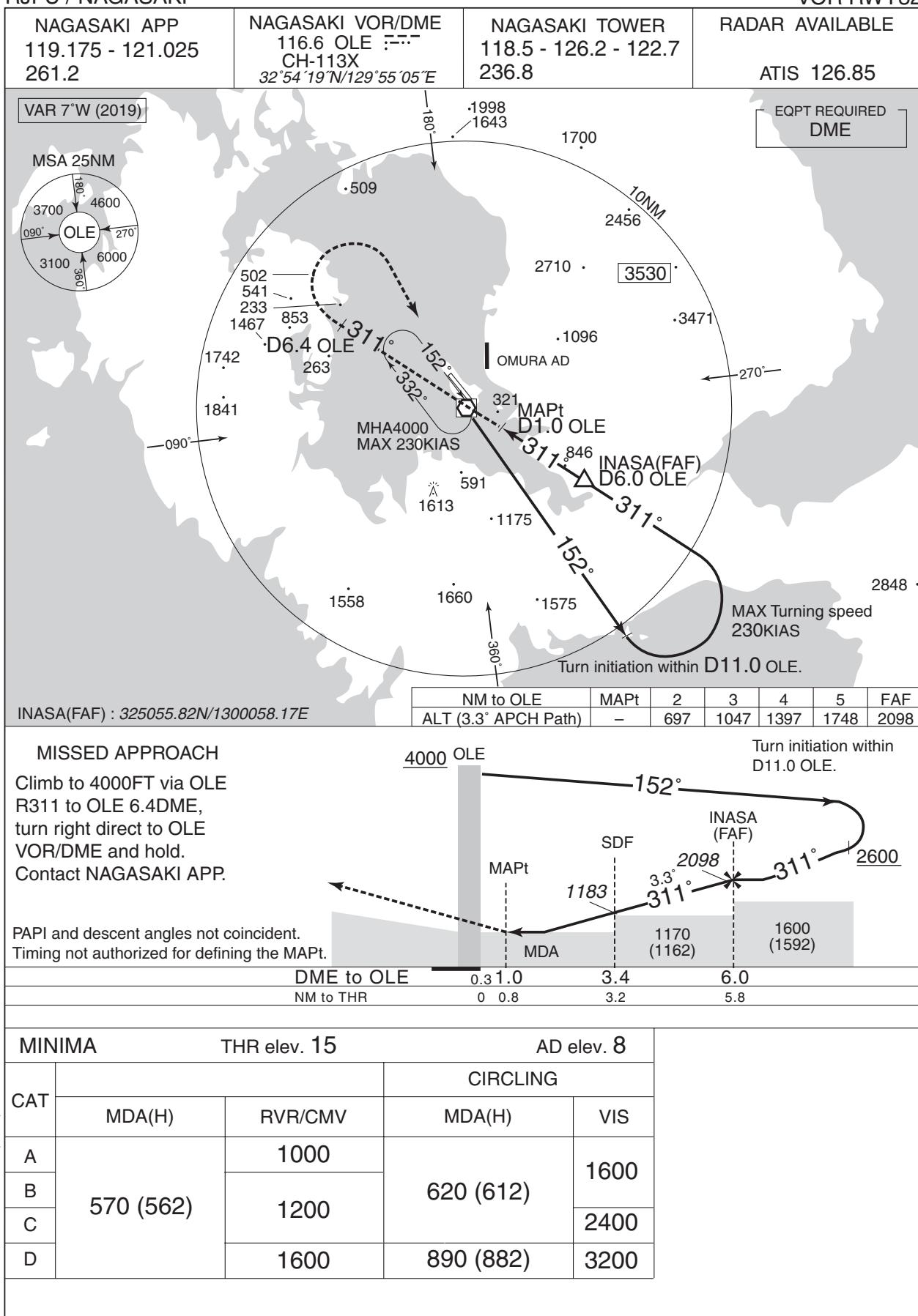
MINIMA		THR elev. 14		AD elev. 8		
CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	CMV	MDA(H)	CMV	MDA(H)	VIS
A	290 (276)	1000	290 (282)	1000	620 (612)	1600
B		1100		1100		2400
C		1200		1200		2400
D		1400		1400	890(882)	3200

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

INSTRUMENT APPROACH CHART

RJFU / NAGASAKI

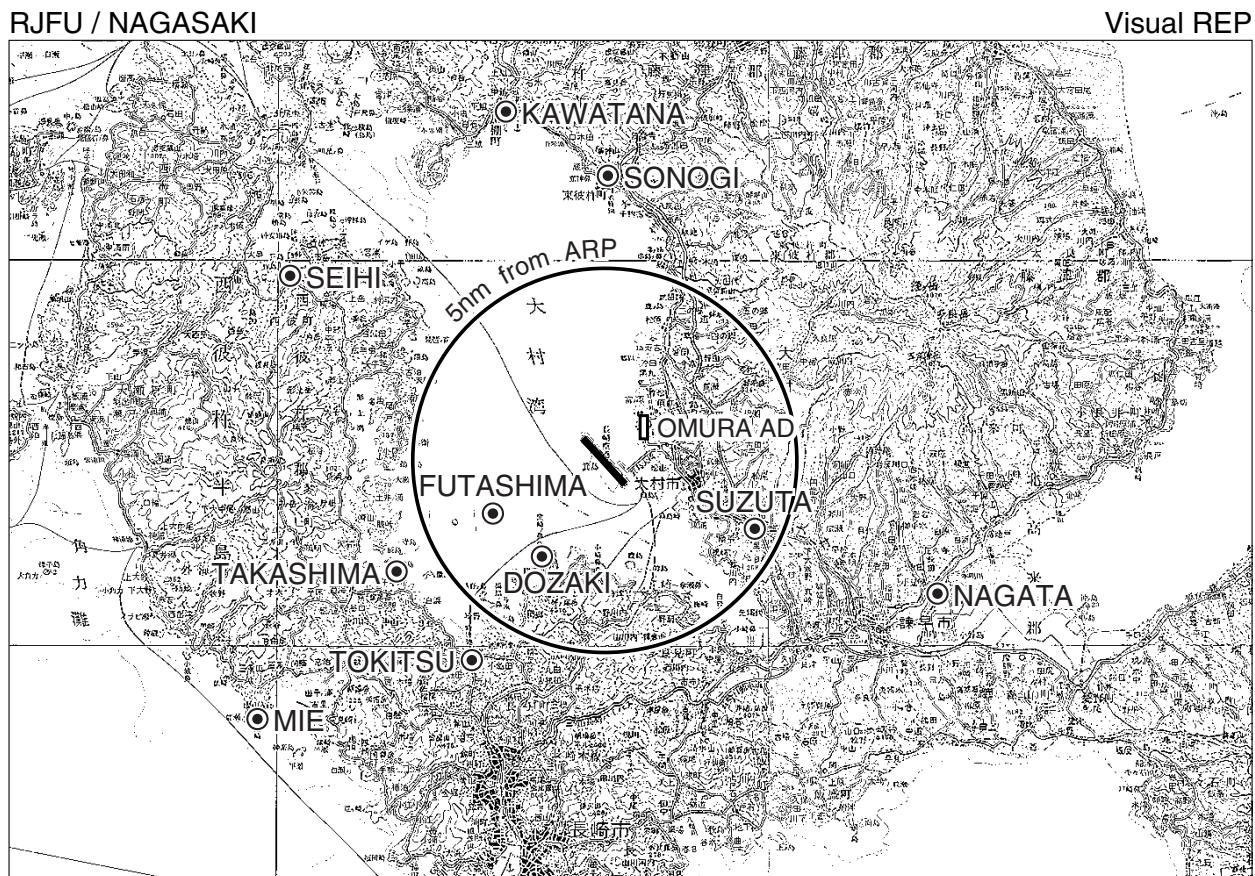
VOR RWY32



INSTRUMENT APPROACH CHART



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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



RJFU / NAGASAKI

HOLDING PATTERN



RJFU / NAGASAKI

Minimum Vectoring Altitude CHART

VAR 7°W (2011)



CENTER : 325458N/1295428E (RADAR SITE)

* : 324540N/1301756E RADIUS : 3NM