AD 2 AERODROMES

RJFU AD 2.1 AERODROME LOCATION INDICATOR AND NAME

RJFU - NAGASAKI

RJFU AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	*325501N/1295449E*
2	Direction and distance from (city)	18Km (9.7nm) NNE of Nagasaki railway station, 4km (2.2nm) W of Omura railway station.
3	Elevation/ Reference temperature	8ft / 33°C (2004-2008)
4	Geoid undulation at AD ELEV PSN	105.89ft
5	MAG VAR/ Annual change	7° W (2008) / Annual change 2' W
6	AD Administration, address, telephone, telefax, telex, AFS, e-mail and/or Web-site addresses	Civil Aviation Bureau, Ministry of Land, Infrastructure, Transport and Tourism Nagasaki Airport, 593-2 Mishima-cho, Omura City, Nagasaki Pref. Tel: 0957(53)6901 Fax: 0957(54)4539 AFS: RJFUYFYX
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Nil

RJFU AD 2.3 OPERATIONAL HOURS

1	AD Administration	2200 - 1300
2	Customs and immigration	Customs: 2330-0815 Immigration: INTL SKED FLT hours only
3	Health and sanitation	Quarantine(human, plant): INTL SKED FLT hours only Quarantine(animal): 2330-1100
4	AIS Briefing Office	2200 - 1300
5	ATS Reporting Office(ARO)	Nil
6	MET Briefing Office	H24 (FUKUOKA)
7	ATS	2200 - 1300 Remarks: 2200-2245 and 1215-1300, AFIS provided by Fukuoka Airport Office.
8	Fuelling	2200 - 1300
9	Handling	DOM/JAL:2240-1240, ANA:2200-1230, ORC:2200-0910 INTL/2330-0800
10	Security	2130 - 1200
11	De-icing	Nil
12	Remarks	Nil

RJFU AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	No limitation
2	Fuel/ oil types	Fuel Grades : JET A-1 Oil Grade : W80, W100, AERO80, AERO100
3	Fuelling facilities/ capacity	Fuel Truck Refueling, No limitation
4	De-icing facilities	Nil
5	Hangar space for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	Nil

RJFU AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in the city
2	Restaurants	Available, Not Continuous
3	Transportation	Buses, Taxies and Ships
4	Medical facilities	Hospitals in the city
5	Bank and Post Office	Bank in the city. Post office in the city.
6	Tourist Office	Tourist Office in the city
7	Remarks	Nil

RJFU AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	CAT 9
2	Rescue equipment	Chemical fire fighting truck x 3, Water supply truck x 1, Lighting power supply truck x 1, Emergency medical equipments conveyance truck x 1
3	Capability for removal of disabled aircraft	B744
4	Remarks	Nil

RJFU AD 2.7 SEASONAL AVAILABILITY-CLEARING

1	Types of clearing equipment	
2	Clearance priorities	1.RWY 2.TWY 3.APRON
3	Remarks	Seasonal availability:ALL seasons

RJFU AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron surface and strength	Surface : Surface Concrete, Asphalt Concrete in part. Strength : PCN 56/R/A/X/T spot NR 2 PCN 52/R/B/X/T spot NR 3 PCN 70/R/B/X/T spot NR 5 PCN 70/R/A/X/T spot NR 6 PCN 62/R/B/X/T spot NR 7, 8, 9, 10 PCN 74/R/B/X/T spot NR 11, 12, 14
2	Taxiway width, surface and strength	Width : B2.....9m P1 - P5.....23m T1, T6.....28.5m T2, T3, T4, T5....34m Surface : Asphalt Concrete Strength : B2.....PCN 5/F/C/X/T P1, P3, P4, T1...PCN 65/F/A/X/T P5, T6.....PCN 97/F/C/X/T T2, T3, T4, T5....PCN 54/F/A/X/T P2.....PCN 62/R/B/X/T
3	ACL and elevation	Not available
4	VOR checkpoints	Not available
5	INS checkpoints	Spot NR 5 : *325447.08N/1295522.18E** 6 : *325448.42N/1295520.75E* 7 : *325449.91N/1295519.11E* 8 : *325451.60N1295517.31E* 9 : *325453.29N/1295515.51E* 10 : *325454.98N/1295513.71E* 11 : *325456.73N/1295511.84E* 12 : *325458.53N/1295509.91E*
6	Remarks	Nil

RJFU AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and Visual docking/ parking guidance system of aircraft stands	ACFT stand ID signs: SPOT 2, 5-9
2	RWY and TWY markings and LGT	RWY14/32: (Marking) RWY designation, RWY CL, RWY THR, Aiming point, TDZ, RWY side stripe (LGT) RCLL, REDL, RTHL, RENL, RTZL(RWY32), WBAR(RWY32), RWY DIST marker LGT TWY: T1 - T6 (Marking) TWY CL, RWY HLDG PSN, Mandatory Instructions, TWY side stripe (LGT) TWY edge LGT, TWY CL LGT, RWY guard LGT, Taxiing guidance sign TWY: P1, P3, P4, P5 (Marking) TWY CL, TWY side stripe (LGT) TWY edge LGT, TWY CL LGT TWY: P2 (Marking) TWY CL, TWY side stripe (LGT) TWY edge LGT, TWY CL LGT, Taxiing guidance sign TWY: B2 (Marking) TWY CL, TWY side stripe (LGT) TWY edge LGT, Taxiing guidance sign
3	Stop bars	Nil
4	Remarks	(Marking) Overrun area (LGT) Apron flood LGT

RJFU AD 2.10 AERODROME OBSTACLES

In Area2 See Obstacle data

In Area3 To be developed

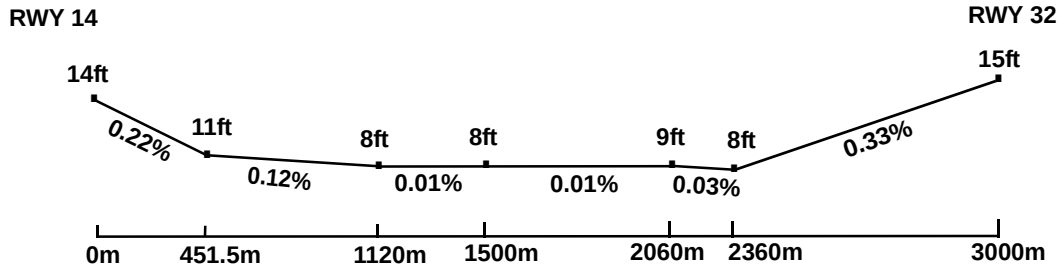
RJFU AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	FUKUOKA
2	Hours of service MET Office outside hours	H24 (FUKUOKA)
3	Office responsible for TAF preparation Periods of validity	FUKUOKA 30 Hours
4	Trend forecast Interval of issuance	Nil
5	Briefing/ consultation provided	Briefing is available upon inquiry at FUKUOKA
6	Flight documentation Language(s) used	C En
7	Charts and other information available for briefing or consultation	S_6, U_{85}, U_7, U_5, U_3, U_{25}, P_s, P_5, P_3, P_{25}, P_{SWE}, P_{SWF}, P_{SWG}, P_{SWI}, P_{SWM}, P_{SW}(domestic), U_2/Tr, E, C, W_E, W_F, W_G, W_I, W, N
8	Supplementary equipment available for providing information	Nil
9	ATS units provided with information	TWR, APP, ATIS, RADIO
10	Additional information(limitation of service, etc.)	Nil

RJFU AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY(M)	Strength(PCN) and surface of RWY	THR coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
14	138.00°	3000×60	PCN 65/F/A/X/T Asphalt Concrete	*325537.28N* *1295409.77E* 105.8ft	THR ELEV: 14ft
32	318.00°	3000×60	PCN 65/F/A/X/T Asphalt Concrete	*325424.91N* *1295527.04E* 106.0ft	THR ELEV: 15ft

Slope of RWY	Strip Dimen-sions(M)	RESA (Overrun) Dimensions (M)	Remarks
7	10	11	14
See below chart	3120×300	40×300	RWY 14 grooving: 3000 x 40m
See below chart	3120×300	190×(MNM:120 MAX:300)* *For detail, ask airport administrator	RWY 32 grooving: 3000 x 40m



RJFU AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
14	3000	3000	3000	3000	Nil
32	3000	3000	3000	3000	Nil

RJFU AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	RTHL Color WBAR	PAPI (VASIS) Angle DIST FM THR MEHT	RTZL LEN	RCLL LEN Spacing Color INTST	REDL LEN Spacing Color INTST	RENL Color WBAR	STWL LEN Color
1	2	3	4	5	6	7	8	9
14	SALS (*1) 420m LIH	Green -	PAPI 3.0°/LEFT 471m 74ft	-	3000m 30m Coded color (White/Red) LIH	3000m 60m Coded color (White/Yellow) LIH	Red	Nil (*2)
32	PALS (CAT I) 900m LIH	Green Green	PAPI 3.0°/LEFT 444m 65ft	900m	3000m 30m Coded color (White/Red) LIH	3000m 60m Coded color (White/Yellow) LIH	Red	Nil (*2)
Remarks								
10								
SALS with APCH LGT beacon(600m and 900m FM RWY THR)(*1) Overrun area edge LGT(LEN:60m Color:Red)(*2)								

RJFU AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN:*325428N/1295457E*, White/Green EV4.3sec, HO
2	LDI location and LGT Anemometer location and LGT	LDI : Nil Anemometer : RWY 32 : 438m from RWY 32 THR, LGTD RWY 14 : 430m from RWY 14 THR, LGTD
3	TWY edge and centerline lighting	TWY edge and center line lights installed, see AD2.9
4	Secondary power supply/ switch-over time	Within 1 sec : REDL, RENL, RTHL, WBAR, RCLL, Overrun area edge LGT Within 15 sec : Other LGT
5	Remarks	WDI LGT

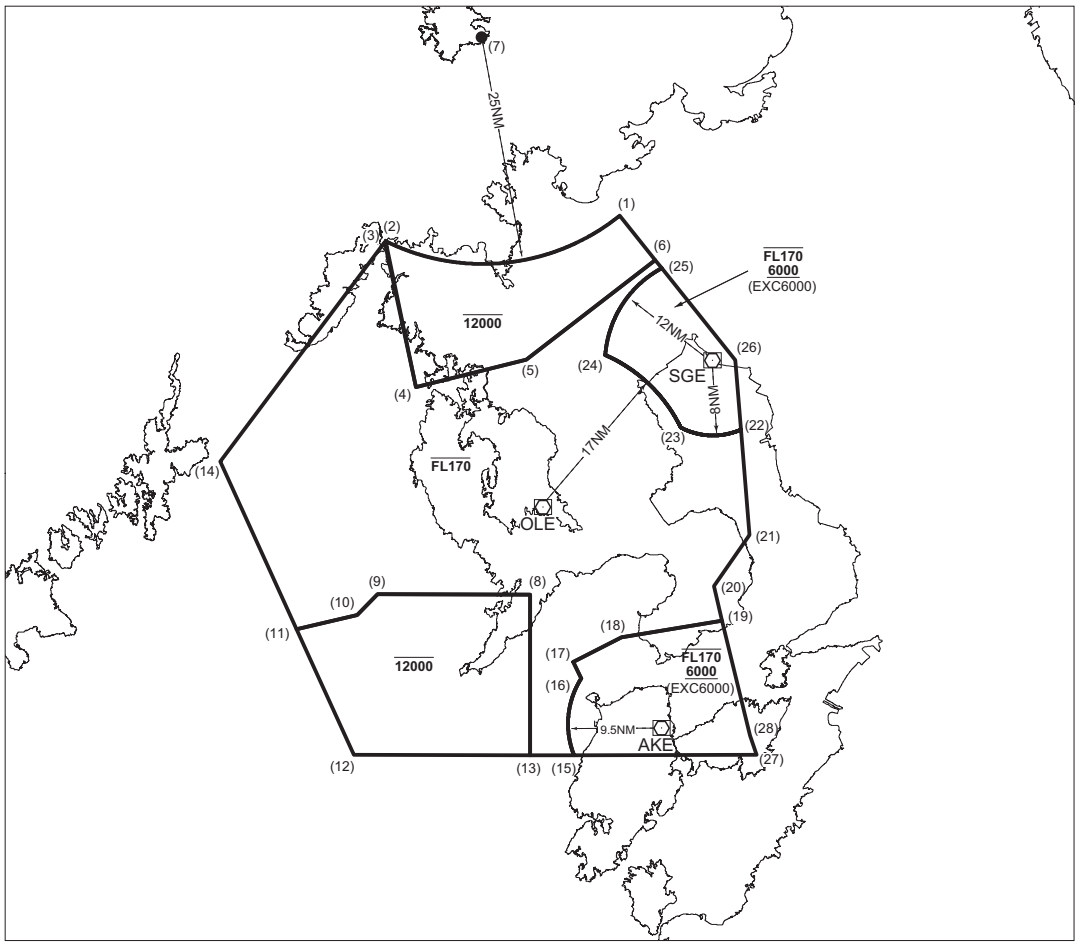
RJFU AD 2.16 HELICOPTER LANDING AREA

Nil

RJFU AD 2.17 ATS AIRSPACE

Designation and lateral limits		Vertical limits (ft)	Airspace classification	ATS unit call sign Language	Remarks
1		2	3	4	6
NAGASAKI CTR	Area within a radius of 5 nm of NAGASAKI ARP (*325501N1295449E*)	3,000 or below	D	NAGASAKI TWR NAGASAKI RADIO (1) En	(1)2200-2245 1215-1300
NAGASAKI ACA	See attached chart		E	NAGASAKI APP NAGASAKI RADAR NAGASAKI DEP En	
NAGASAKI TCA	See attached chart		E	NAGASAKI TCA En	

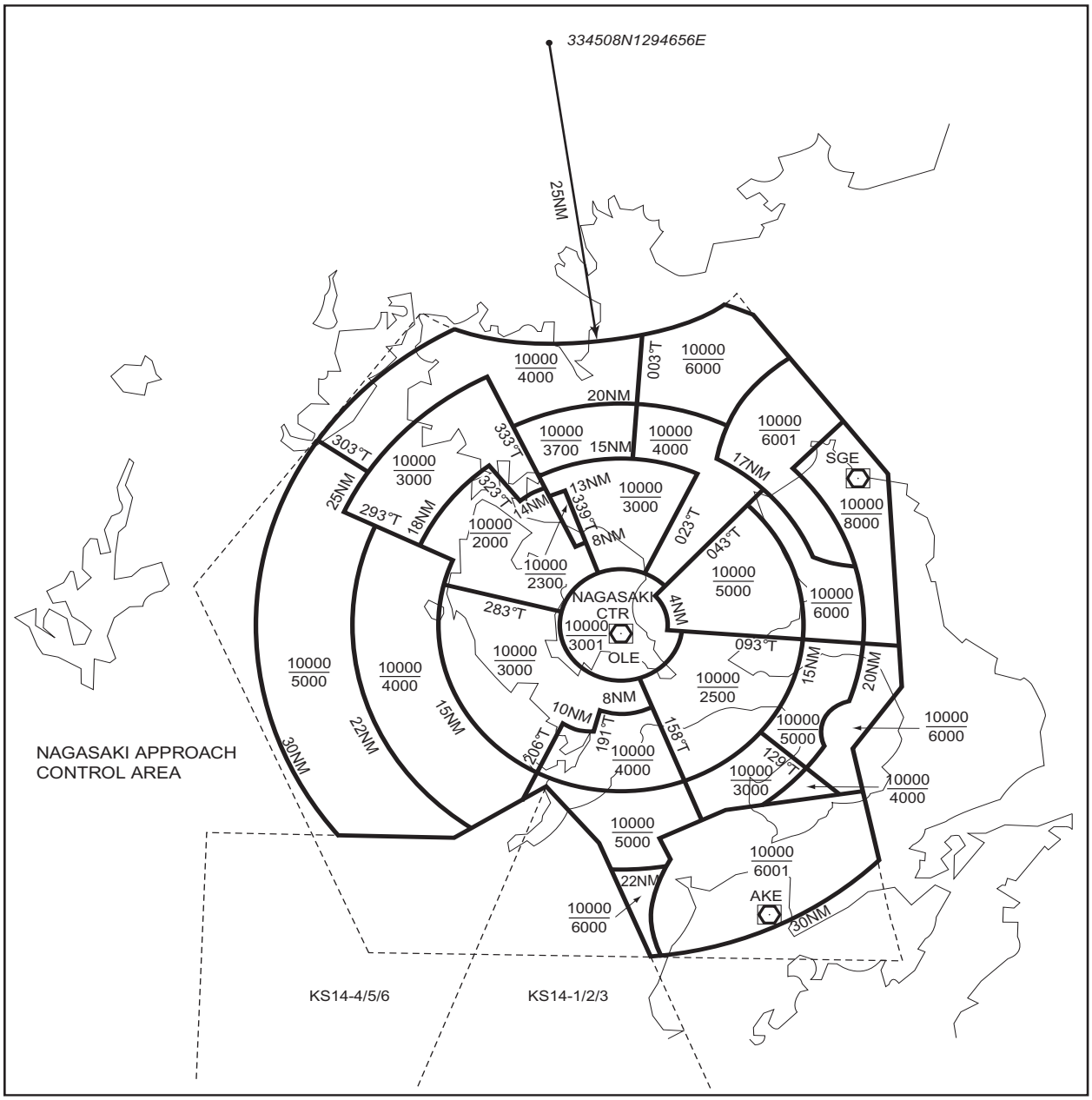
長崎進入管制区
Nagasaki Approach Control Area



Point list

(1) *332519N1300516E*
(2) *332227N1293413E*
(3) *332219N1293406E*
(4) *330615N1293818E*
(5) *330921N1295252E*
(6) *332024N1300955E*
(7) *334508N1294656E*
(8) *324312N1295325E*
(9) *324312N1293323E*
(10) *324053N1293041E*
(11) *323917N1292246E*
(12) *322522N1293021E*
(13) *322522N1295325E*
(14) *325752N1291235E*
(15) *322522N1295913E*
(16) *323353N1300008E*
(17) *323544N1295905E*
(18) *323828N1300526E*
(19) *324018N1301840E*
(20) *324407N1301735E*
(21) *324950N1302218E*
(22) *330132N1302113E*
(23) *330147N1301316E*
(24) *330951N1300318E*
(25) *331929N1301048E*
(26) *330915N1302028E*
(27) *322522N1302306E*
(28) *322734N1302215E*

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



RJFU AD 2.18 ATS COMMUNICATION FACILITIES

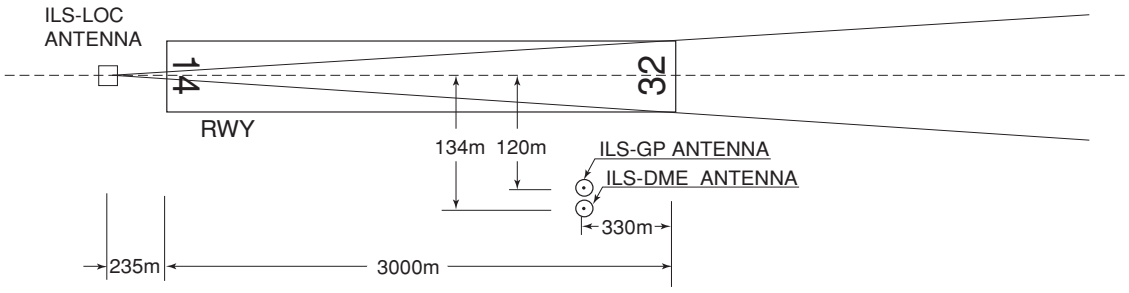
Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
APP	Nagasaki Approach	119.175MHz(1) 261.2MHz 121.5MHz(E) 243.0MHz(E)	2200 - 1300	(1)Primary
ASR	Nagasaki Radar	119.175MHz 121.025MHz 261.2MHz 121.5MHz(E) 243.0MHz(E)	2200 - 1300	
DEP	Nagasaki Departure	121.0MHz 261.2MHz 121.5MHz(E) 243.0MHz(E)	2200 - 1300	
TCA	Nagasaki TCA	121.175MHz 245.3MHz	2300 - 1030	
TWR	Nagasaki Tower	118.5MHz 126.2MHz 122.7MHz 236.8MHz 121.5MHz(E) 243.0MHz(E)	2245 - 1215(*)	
GND	Nagasaki Ground	121.6MHz	2245 - 1215(*)	
ATIS	NAGASAKI Airport	126.85MHz	2200 - 1300	
AFIS	Nagasaki Radio	118.5MHz	2200-2245 1215-1300(*)	Operated by Fukuoka Airport Office

*Depending on air traffic situation, ATC service will be provided from 2230 to 2245 and from 1215 to 1230.

RJFU AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid (VOR declination)	ID	Frequency	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
VOR (7°W/2020)	OLE	116.6MHz	H24	*325418.89N/ 1295504.73E*		VOR unusable : 040°-070° beyond 25nm BLW 6000ft 070°-090° beyond 20nm BLW 6000ft
DME	OLE	1200 MHz (CH-113X)	H24	*325418.89N/ 1295504.73E*	154ft	DME unusable : 030°-070° beyond 20nm BLW 6000ft 070°-090° beyond 15nm BLW 6000ft 160°-170° beyond 30nm BLW 5000ft 170°-200° beyond 20nm BLW 4000ft 200°-210° beyond 10nm BLW 4000ft 210°-240° beyond 20nm BLW 4000ft 260°-300° beyond 20nm BLW 4000ft
ILS-LOC 32	IOL	110.9MHz	2200 - 1300	*325542.95N/ 1295403.71E*		LOC : 235m(771ft) away FM RWY 14THR, BRG(MAG)325°.
ILS-GP 32	-	330.8MHz	2200 - 1300	*325430.22N/ 1295515.11E*		GP : 330m(1084ft) inside FM RWY 32 THR. 120m SW of RCL. HGT of ILS Ref datum16.2m(53ft). GP Angle 3.0°.
ILS-DME 32	IOL	1007MHz (CH-46X)	2200 - 1300	*325429.87N/ 1295514.76E*	25ft	DME : 330m(1084ft) inside FM RWY 32 THR,134m(439ft) SW of RCL.
MSAS		1575.42M Hz	H24			Transmitting antennas are satellite based.

ILS



REMARKS : 1. LOC beam BRG(MAG) 325°
2. HGT of ILS REF datum 16.2m (53ft)
3. GP Angle 3.0°
4. ELEV of ILS-DME 7.6m (25ft)

RJFU AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Airport regulations

1.1 Without prior permission of the airport administrator, the transient aircraft shall not use on this airport.

1.2 Prior notification should be required with AD Administration for the purpose of getting the permission when crossing Nagasaki CTR from 2200UTC to 2245UTC or from 1215UTC to 1300UTC.
For further information (0000UTC-0800UTC MON-FRI EXC HOL)
Air Traffic Controller Office, Nagasaki Airport Office
TEL: 0957-53-6870
7時00分から7時45分または21時15分から22時00分までの間、長崎管制圏を通過する場合は、当該通過の許可を得るためにあらかじめ長崎空港事務所へ調整すること。
問い合わせ先
長崎空港事務所管制官事務室
（月曜日から金曜日までのうち、9 時 00 分から 17 時 00 分までの間。ただし休日を除く。）
TEL: 0957−53−6870

2. Taxiing to and from stands

Nil

3. Parking area for small aircraft(General aviation)

Unable to stay at spot NR 2B, C, D from sunset to sunrise. Ask AD administration for detail.

4. Parking area for helicopters

Nil

5. Apron - taxiing during winter conditions

Nil

6. Taxiing - limitations

Wing tip clearance at the TWY intersection (REF AD1.1.6.8)
Wing tip clearance at the TWY intersection between the aircraft holding at the stop marking on the TWY and the other aircraft taxiing behind it are as follows.

When B74D holding at the stop marking on TWY T2 or T5

Wing span (WS) of aircraft taxiing on TWY P1-P2 or P4-P5	WS =<19.4m	19.4m < WS =< 36.4m	WS >36.4m
wing tip clearance	*A	*B	*C

Legend
*A : wing tip clearance >= 15m
*B : 6.5m =< wing tip clearance < 15m
*C : wing tip clearance < 6.5m

7. School and training flights - technical test flights - use of runways

On use of this airport by training operation, the operator is required to arrange and obtain the prior permission of the airport administrator.

8. Helicopter traffic - limitation

Nil

9. Removal of disabled aircraft from runways

Nil

RJFU AD 2.21 NOISE ABATEMENT PROCEDURES

Nil

RJFU AD 2.22 FLIGHT PROCEDURES

1. TAKE OFF MINIMA

	RWY	ACFT CAT	REDL & RCLL		REDL or RCLL or RCL Marking		NIL (DAYTIME ONLY)	
			RVR	VIS	RVR	VIS	RVR	VIS
Multi-Engine ACFT with TKOF ALTN AP FILED	14	A,B,C,D	-	400m	-	400m	-	500m
	32		400m	400m	400m	400m	-	500m
OTHER	14	A,B,C,D	AVBL LDG MINIMA					
	32							

2. Lost communication procedures for Arrival Aircraft under radar navigational guidance.

If radio communications with NAGASAKI Approach/Radar are lost for 30 seconds, squawk Mode A/3 Code 7600 and :

(I) 1. Contact NAGASAKI Tower / NAGASAKI Radio.
2. If unable, proceed in accordance with Visual Flight Rules.
3. If unable, proceed to NAGASAKI VOR/DME at last assigned altitude or 4,000 feet whichever is higher, and execute instrument approach.

(II) Procedures other than above will be issued when situation required.

3. Trajectorized Airport Traffic Data Processing System (TAPS)

Aircraft flying under control of Nagasaki approach control in the approach control area will be instructed to reply with discrete code on Mode A/3 and Mode C.
If an aircraft with non-discrete capability be instructed to reply with the discrete code, it shall report a controller accordingly.
長崎アプローチの指示のもとに、当該進入管制区を飛行する航空機は、モード A/3 の二次レーダー個別コード及びモード C による応答を指示される。
二次レーダー個別コードを搭載していない航空機が当該コードによる応答を指示された場合は，管制官に対しその旨通報すること。

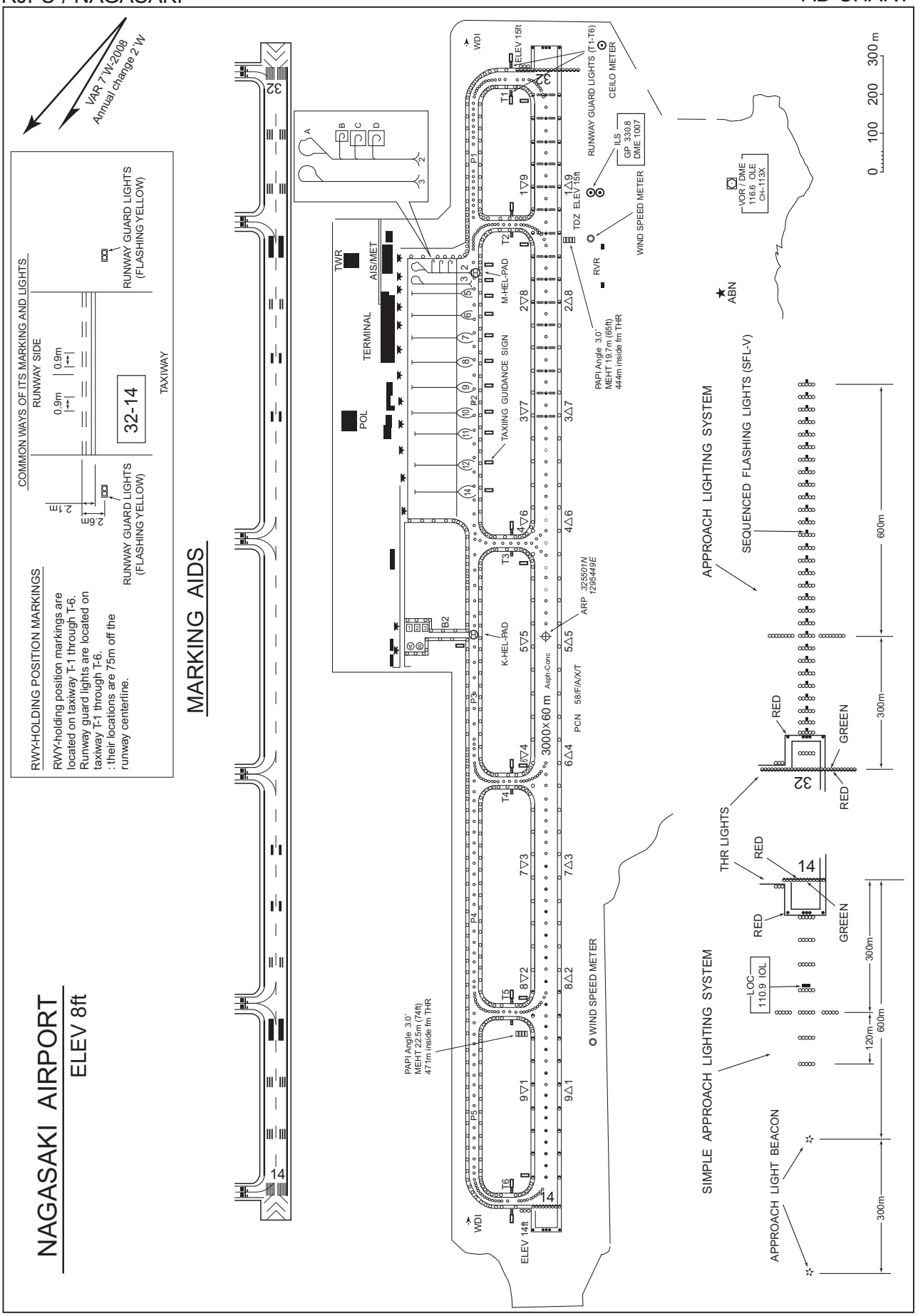
RJFU AD 2.23 ADDITIONAL INFORMATION

Nil

RJFU AD 2.24 CHARTS RELATED TO AN AERODROME

Aerodrome/Heliport Chart
Aerodrome Obstacle Chart -ICAO type A (RWY 14/32)
Aerodrome Obstacle Chart -ICAO type B
Standard Departure Chart - Instrument (NORTH)
Standard Departure Chart - Instrument (WEST)
Standard Departure Chart - Instrument (NAGASAKI REVERSAL)
Standard Departure Chart - Instrument (CHIKUGO-RNAV)
Standard Departure Chart - Instrument (KAZSA-RNAV)
Standard Arrival Chart - Instrument (RNAV)
Instrument Approach Chart (ILS Z or LOC Z RWY 32)
Instrument Approach Chart (ILS Y or LOC Y RWY 32)
Instrument Approach Chart (RNAV(GNSS) RWY 14)
Instrument Approach Chart (VOR RWY 32)
Instrument Approach Chart (VOR RWY 14)
Other Chart (Visual REP)
Other Chart (LDG CHART)
Other Chart (HOLDING PATTERN)
Other Chart (MVA CHART)

RJFU / NAGASAKI AD CHART



CHANGE : TWY CL LGT for P2 installed

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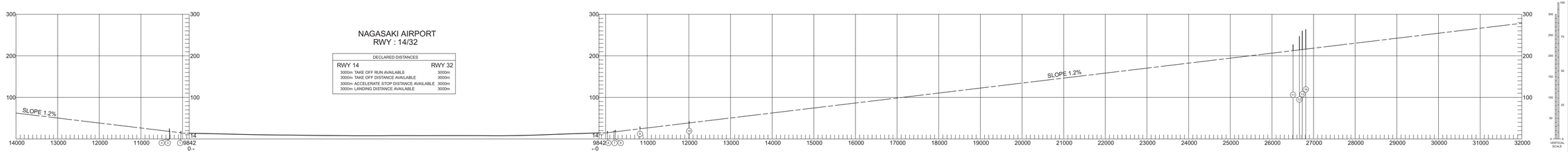
DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

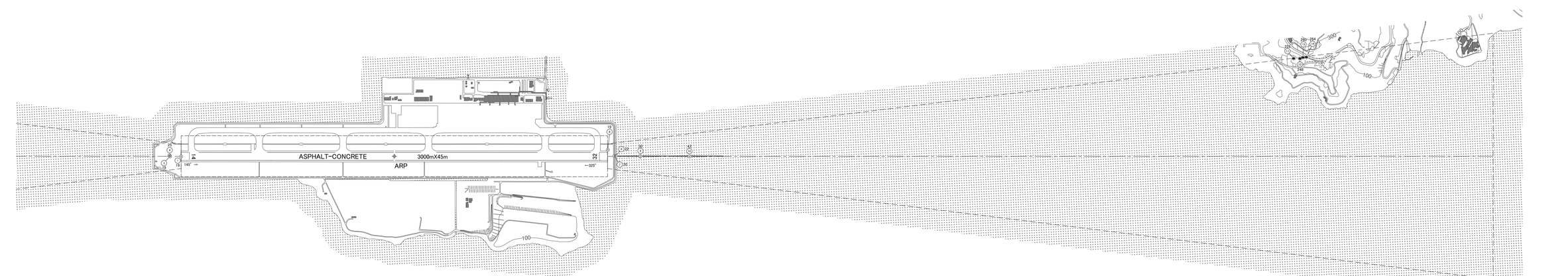
AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION 7° W-APR 2017



NAGASAKI AIRPORT
RWY : 14/32

DECLARED DISTANCES	
RWY 14	RWY 32
3000m TAKE OFF RUN AVAILABLE	3000m
3000m TAKE OFF DISTANCE AVAILABLE	3000m
3000m ACCELERATE STOP DISTANCE AVAILABLE	3000m
3000m LANDING DISTANCE AVAILABLE	3000m



HORIZONTAL SCALE

FEET

1000 500 0 1000 2000 3000 4000 5000 6000 7000 8000ft

300 0 500 1000 1500 2000 2500m

METRES

LEGEND

- IDENTIFICATION NUMBER
- POLE, TOWER, SPIRE, ANTENNA, ETC
- AERONAUTICAL GROUND LIGHT
- OBSTRUCTION LIGHT
- BUILDING OR LARGE STRUCTURE
- RAILROAD
- TRIANGULATION POINT
- TRANSMISSION LINE OR OVERHEAD CABLE
- LEVEE
- RIVER
- TREE
- LAKE
- CONTOURS(ft)

AMENDMENT RECORD		
Nr	DATE	ENTERED BY

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

AERODROME OBSTACLE CHART-ICAO
TYPE B

AERODROME ELEVATION 8ft ARP

VAR 7°W APR 2017
ANNUAL CHANGE 4.6'W

HORIZONTAL SURFACE

TAKE-OFF FLIGHT PATH
SLOPE 12%

APPROACH SURFACE
SLOPE 1:50

TRANSITIONAL SURFACE
SLOPE 1:7

OMURA CITY

OMURA BAY

USU ISLAND

ISAHAYA CITY

SHIKANO ISLAND

LEGEND	AMENDMENT RECORD		
AERODROME REFERENCE POINT *32°55'01"N 129°54'49"E*	№	DATE	ENTERED BY
POLE, TOWER, SPIRE, ANTENNA, ETC			
AERONAUTICAL GROUND LIGHT			
OBSTRUCTION LIGHT			
BUILDING OR LARGE STRUCTURE			
RAILROAD / TRIANGULATION POINT			
TRANSMISSION LINE OR OVERHEAD CABLE			
LEVEE			
TREE / RIVER			
LAKE / CONTOURS(ft)			

HORIZONTAL SCALE
FEET: 1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000ft
METRES: 300 0 500 1000 1500 2000 2500 3000m

STANDARD DEPARTURE CHART -INSTRUMENT

RJFU / NAGASAKI SID

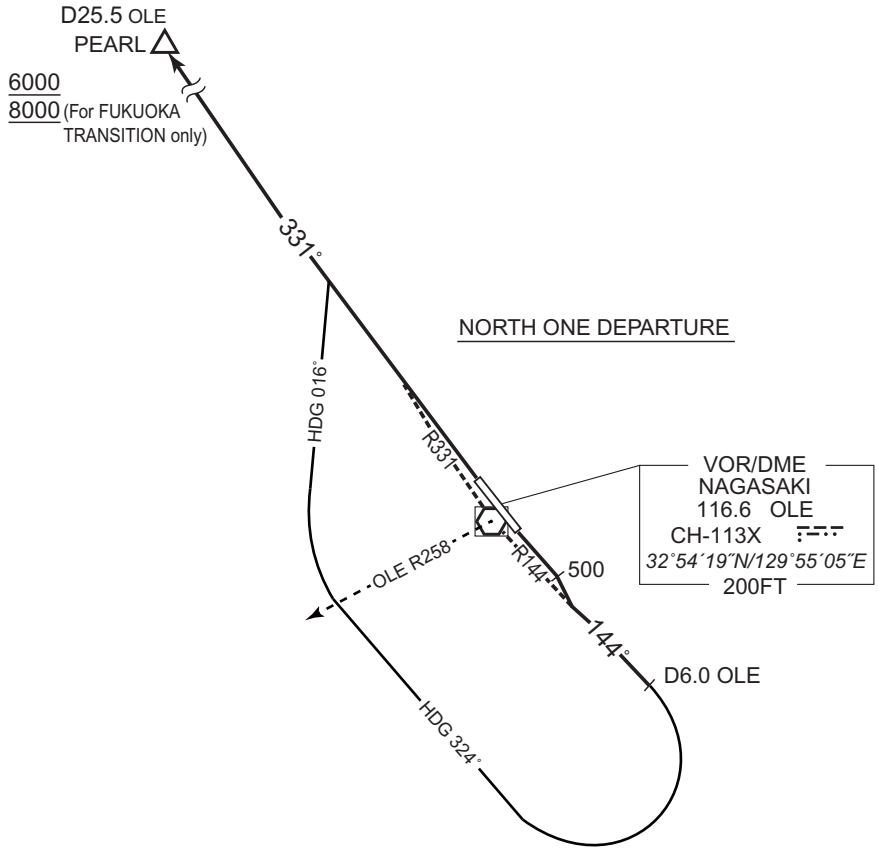
NORTH ONE DEPARTURE

RWY 14: Climb RWY HDG to 500FT, via OLE R144 to 6.0 DME,
turn right HDG324˚ until crossing OLE R258, turn right HDG016˚
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 1200FT.
OBST ALT 1411FT located at 6.9NM 158˚ FM end of RWY14.
OBST ALT 1575FT located at 7.7NM 165˚ FM end of RWY14.



CHANGE : PROC renamed. PROC course. Note(PDG, OBST).

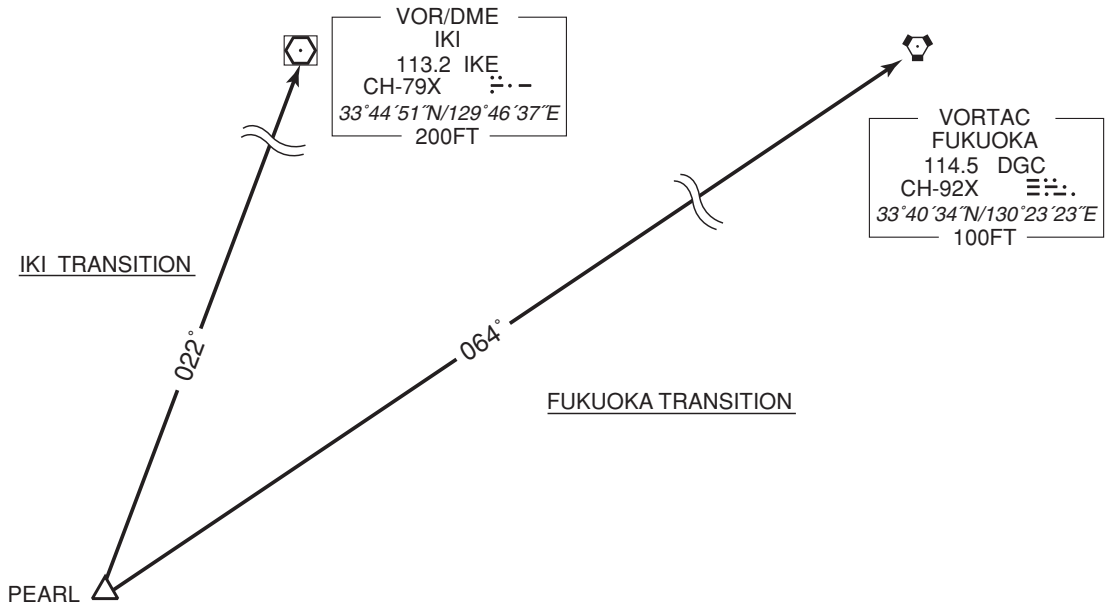
RJFU / NAGASAKI TRANSITION

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

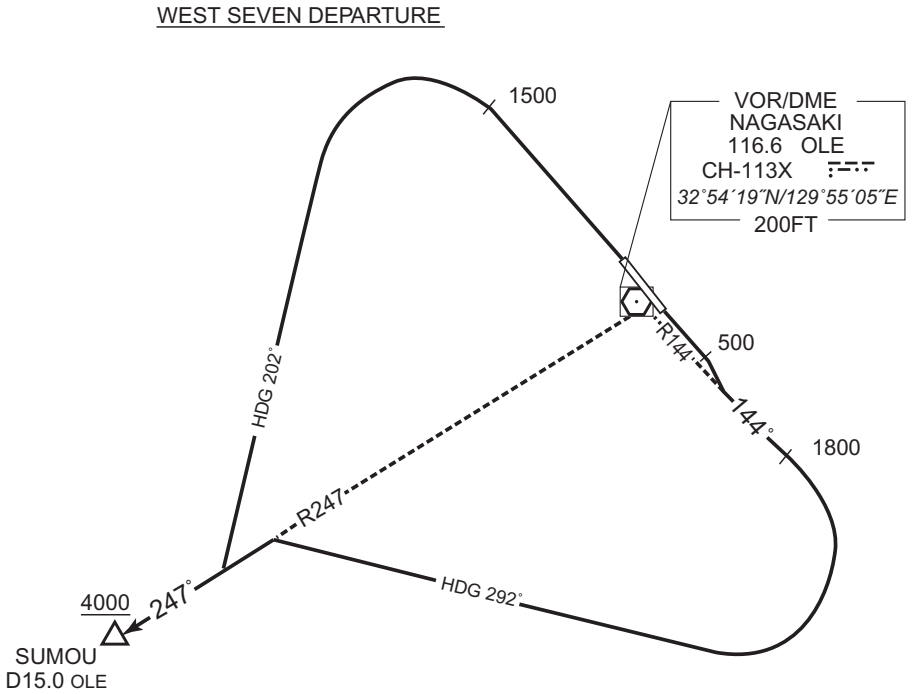
WEST SEVEN DEPARTURE

RWY 14: Climb RWY HDG to 500FT, climb via OLE R144 to 1800FT, turn right HDG292˚ to intercept and proceed via OLE R247...

RWY 32: Climb RWY HDG 1500FT, turn left HDG202˚ to intercept and proceed via OLE R247...

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

Note RWY 14: 5.0% climb gradient required up to 1800FT.
OBST ALT 854FT located at 3.4NM 170˚ FM end of RWY14.
RWY 32: 5.0% climb gradient required up to 1500FT.
OBST ALT 1969FT located at 8.0NM 272˚ FM end of RWY32.



CHANGE : PROC renamed. PROC course. Note RWY14, RWY32 (OBST).

RJFU / NAGASAKI TRANSITION

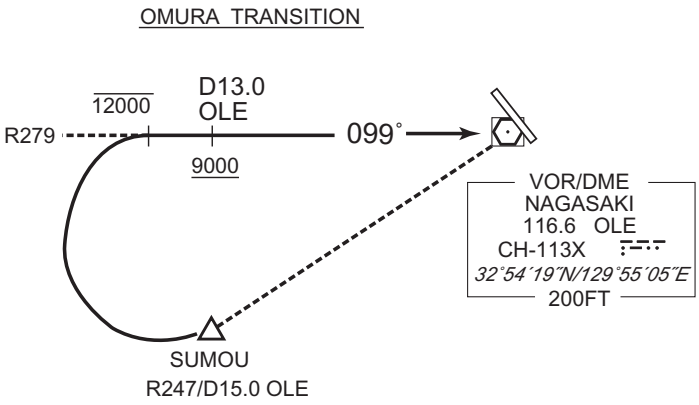
CHANGE : PROC course(OMURA TRANSITION, CARCO TRANSITION). Radial/DIST FM OLE added(SUMOU). DIST FM OLE, FUE added(CARCO).

OMURA TRANSITION

From over SUMOU, turn right to intercept and proceed via OLE R279 to OLE VOR/DME.

Maintain 12000FT or below until intercepting OLE R279.

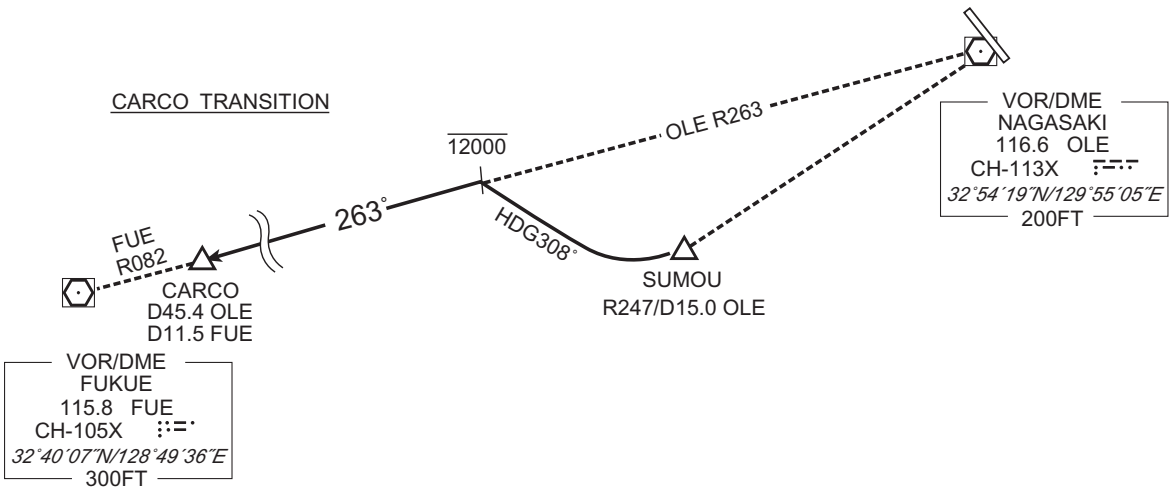
Cross OLE R279/13.0DME at or above 9000FT.



CARCO TRANSITION

From over SUMOU, turn right HDG308° to intercept and proceed via OLE R263 /FUE R082 to CARCO.

Maintain 12000FT or below until intercepting OLE R263.



STANDARD DEPARTURE CHART -INSTRUMENT

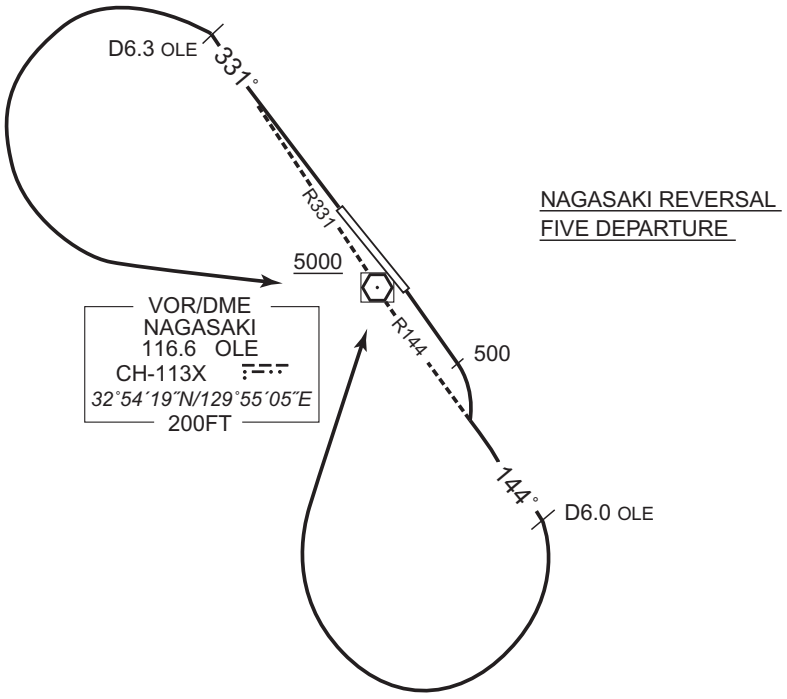
RJFU / NAGASAKI SID

NAGASAKI REVERSAL FIVE DEPARTURE

RWY 14: Climb RWY HDG to 500FT, climb via OLE R144 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 7.7NM 165˚ FM end of RWY14.
RWY 32: 5.0% climb gradient required up to 1600FT.
OBST ALT 1969FT located at 8.0NM 272˚ FM end of RWY32.



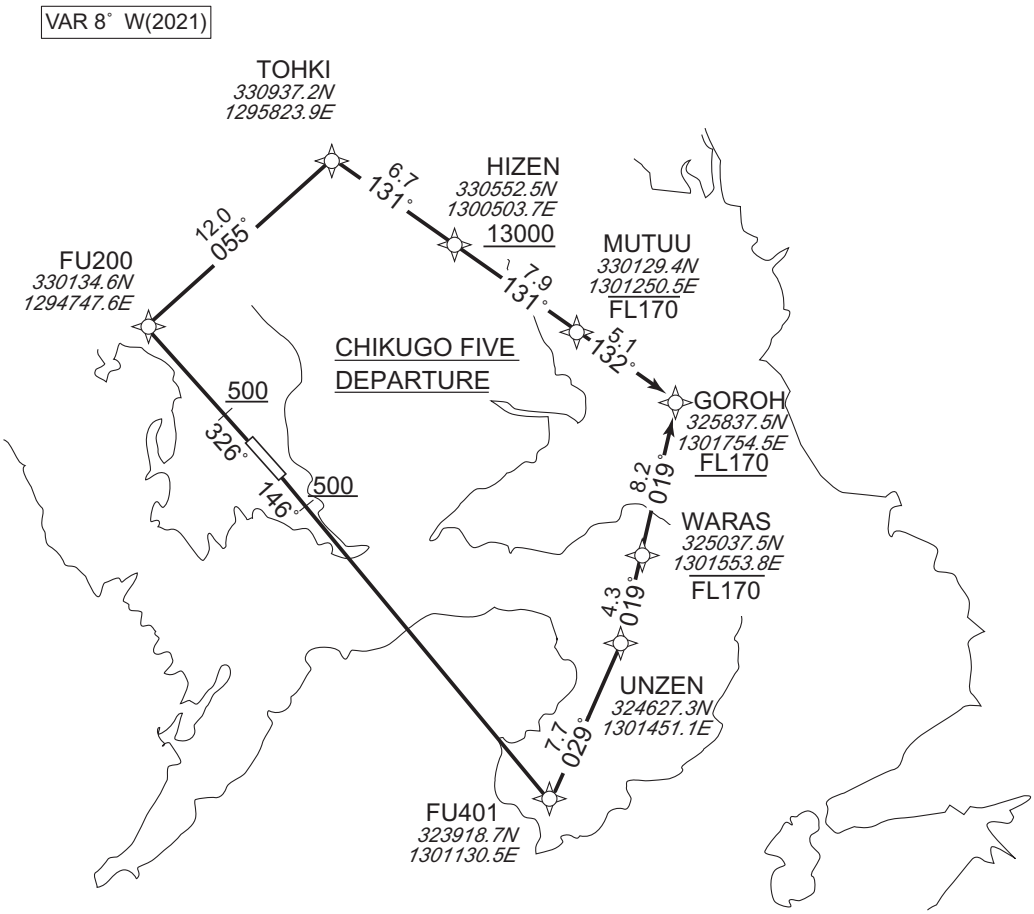
CHANGE : PROC renamed. PROC course. Note RWY14, RWY32 (OBST).

STANDARD DEPARTURE CHART -INSTRUMENT

RJFU / NAGASAKI — RNAV SID

CHIKUGO FIVE DEPARTURE	Basic RNP1

Note GNSS required.



CHIKUGO FIVE DEPARTURE

RWY14 : Climb on HDG146° at or above 500FT, direct to FU401, to UNZEN, to WARAS at or below FL170, to GOROH at or above FL170.

RWY32 : Climb on HDG326° at or above 500FT, direct to FU200, to TOHKI, to HIZEN at or above 13000FT, to MUTUU at or below FL170, to GOROH at or above FL170.

NOTE RWY14 : 5.0% climb gradient required up to 4700FT.
OBST ALT 4954FT located at 20.8NM 122° FM end of RWY14.

RWY32 : 5.0% climb gradient required up to 500FT.
OBST ALT 2067FT located at 9.8NM 013° FM end of RWY32.

CHANGE : VAR. PROC renamed. Navigation specification. Course FM MUTUU to GOROH.

STANDARD DEPARTURE CHART -INSTRUMENT

RJFU / NAGASAKI

RNAV SID

CHIKUGO FIVE 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	–	–	146 (138.1)	-7.6	–	–	+500	–	–	Basic RNP1
002	DF	FU401	–	–	-7.6	–	–	–	–	–	Basic RNP1
003	TF	UNZEN	–	029 (021.5)	-7.6	7.7	–	–	–	–	Basic RNP1
004	TF	WARAS	–	019 (011.9)	-7.6	4.3	–	-FL170	–	–	Basic RNP1
005	TF	GOROH	–	019 (011.9)	-7.6	8.2	–	+FL170	–	–	Basic RNP1

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	–	–	326 (318.1)	-7.6	–	–	+500	–	–	Basic RNP1
002	DF	FU200	–	–	-7.6	–	–	–	–	–	Basic RNP1
003	TF	TOHKI	–	055 (047.8)	-7.6	12.0	–	–	–	–	Basic RNP1
004	TF	HIZEN	–	131 (123.8)	-7.6	6.7	–	+13000	–	–	Basic RNP1
005	TF	MUTUU	–	131 (123.9)	-7.6	7.9	–	-FL170	–	–	Basic RNP1
006	TF	GOROH	–	132 (124.0)	-7.6	5.1	–	+FL170	–	–	Basic RNP1

CHANGE : VAR. PROC renamed. Course FM MUTUU to GOROH.

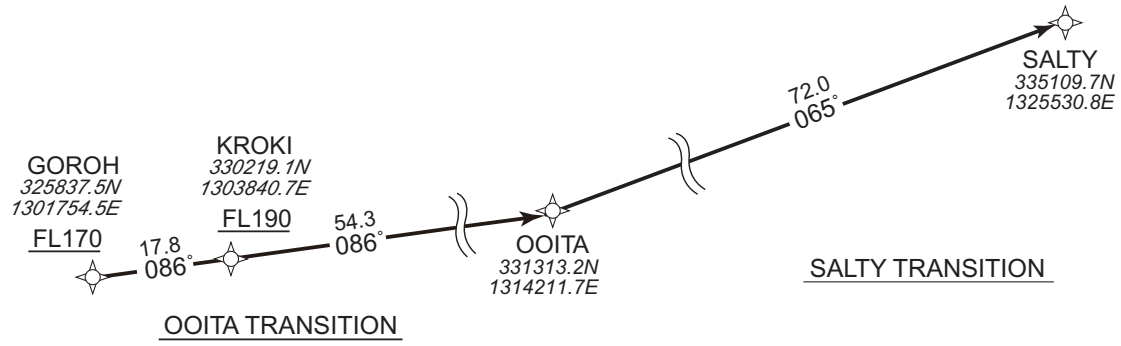
STANDARD DEPARTURE CHART -INSTRUMENT

RJFU / NAGASAKI — RNAV TRANSITION

SALTY TRANSITION / OOITA TRANSITION	Basic RNP1

Note GNSS required.

VAR 8° W(2021)



CHANGE : VAR. Navigation specification. Course FM GOROH to KROKI.

SALTY TRANSITION

From GOROH at or above FL170, to KROKI at or above FL190, 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	GOROH	–	–	-7.6	–	–	+FL170	–	–	Basic RNP1
002	TF	KROKI	–	086 (077.9)	-7.6	17.8	–	+FL190	–	–	Basic RNP1
003	TF	OOITA	–	086 (078.1)	-7.6	54.3	–	–	–	–	Basic RNP1
004	TF	SALTY	–	065 (057.8)	-7.6	72.0	–	–	–	–	Basic RNP1

OOITA TRANSITION

From GOROH at or above FL170, to KROKI at or above FL190, to OOITA.

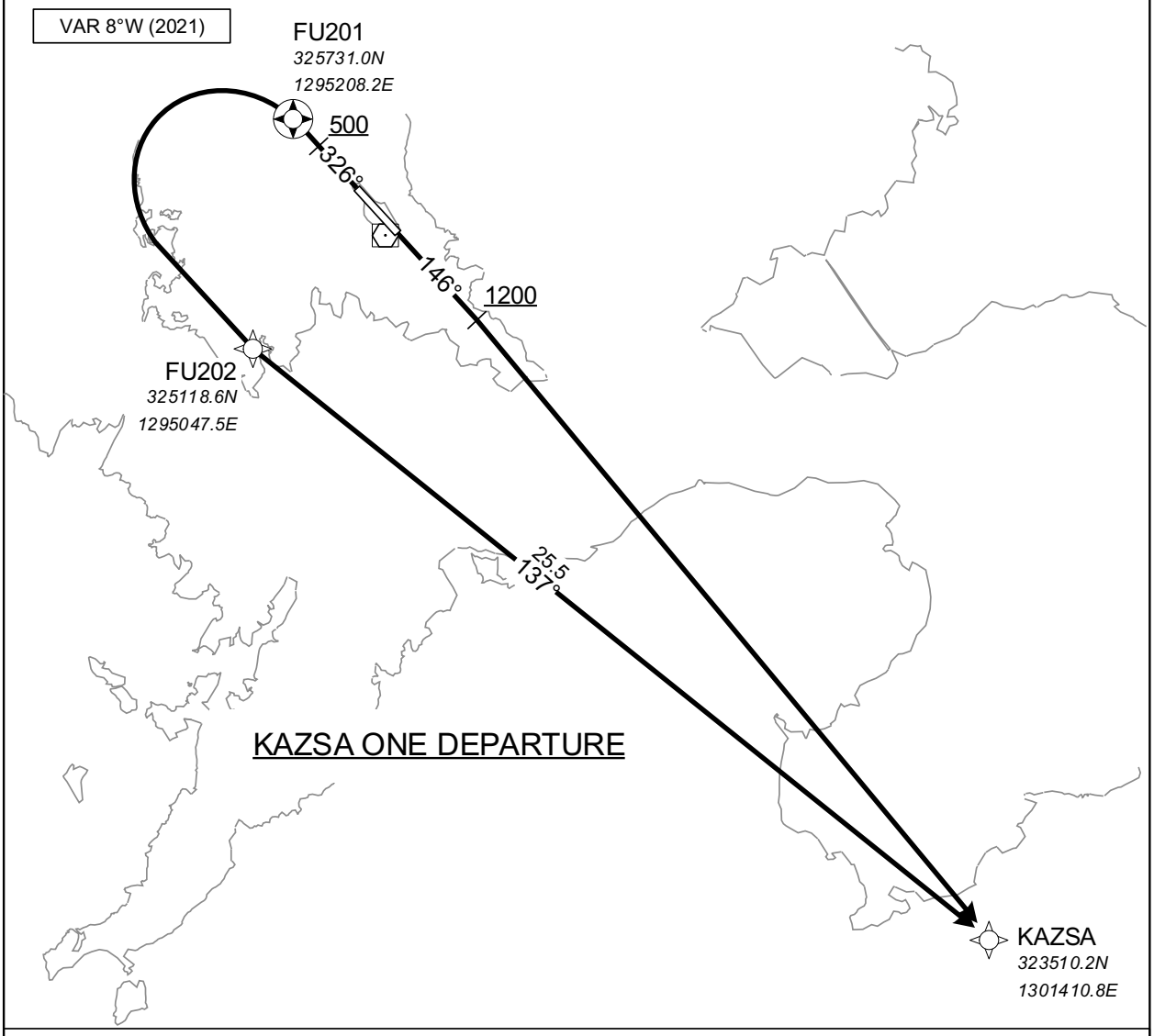
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	GOROH	–	–	-7.6	–	–	+FL170	–	–	Basic RNP1
002	TF	KROKI	–	086 (077.9)	-7.6	17.8	–	+FL190	–	–	Basic RNP1
003	TF	OOITA	–	086 (078.1)	-7.6	54.3	–	–	–	–	Basic RNP1

STANDARD DEPARTURE CHART -INSTRUMENT

RJFU / NAGASAKI RNAV SID

KAZSA ONE DEPARTURE	Basic RNP1

Note GNSS required.



CHANGE : New PROC.

KAZSA ONE DEPARTURE

RWY14 : Climb on HDG146° at or above 1200FT, direct to KAZSA
RWY32 : Climb on HDG326° at or above 500FT, direct to FU201, turn left direct to FU202, to KAZSA.

Note RWY14 : 5.0% climb gradient required up to 1200FT.
OBST ALT 892FT located at 4.1NM 130° FM end of RWY14.
OBST ALT 1050FT located at 4.6NM 165° FM end of RWY14.
RWY32 : 5.0% climb gradient required up to 1900FT.
OBST ALT 1936FT located at 8.0NM 272° FM end of RWY32.

STANDARD DEPARTURE CHART -INSTRUMENT

RJFU / NAGASAKI RNAV SID

KAZSA ONE 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	—	—	146 (138.1)	-7.6	—	—	+1200	—	—	Basic RNP1
002	DF	KAZSA	—	—	-7.6	—	—	—	—	—	Basic RNP1

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	—	—	326 (318.1)	-7.6	—	—	+500	—	—	Basic RNP1
002	DF	FU201	Y	—	-7.6	—	—	—	—	—	Basic RNP1
003	DF	FU202	—	—	-7.6	—	L	—	—	—	Basic RNP1
004	TF	KAZSA	—	137 (129.3)	-7.6	25.5	—	—	—	—	Basic RNP1

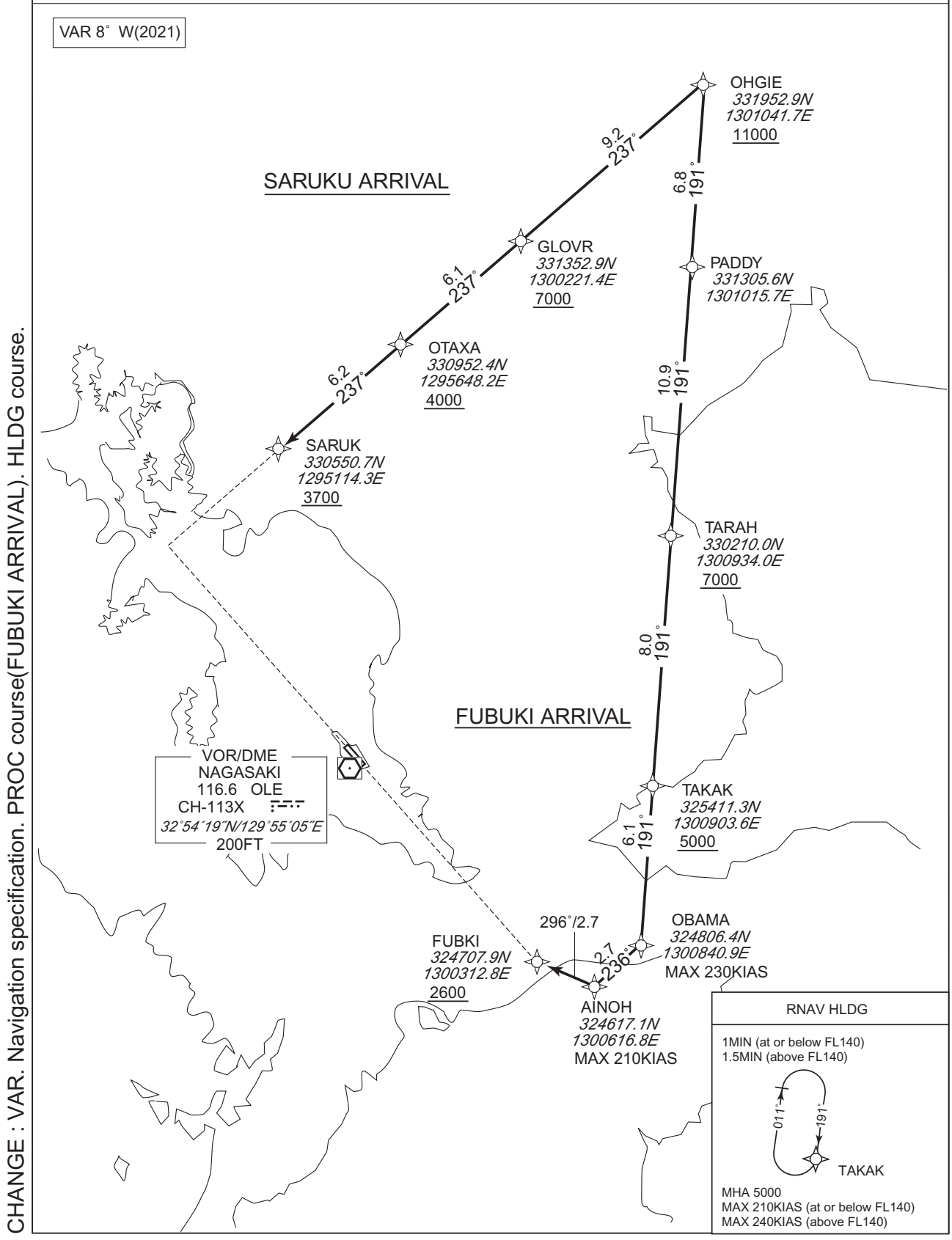
CHANGE : New PROC.

STANDARD ARRIVAL CHART-INSTRUMENT

RJFU / NAGASAKI — RNAV STAR

SARUKU ARRIVAL / FUBUKI ARRIVAL — Basic RNP1

Note GNSS required.



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.

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	–	–	-7.6	–	–	+11000	–	–	Basic RNP1
002	TF	GLOVR	–	237 (229.3)	-7.6	9.2	–	+7000	–	–	Basic RNP1
003	TF	OTAXA	–	237 (229.2)	-7.6	6.1	–	+4000	–	–	Basic RNP1
004	TF	SARUK	–	237 (229.2)	-7.6	6.2	–	+3700	–	–	Basic RNP1

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.

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	–	–	-7.6	–	–	+11000	–	–	Basic RNP1
002	TF	PADDY	–	191 (183.1)	-7.6	6.8	–	–	–	–	Basic RNP1
003	TF	TARAH	–	191 (183.1)	-7.6	10.9	–	+7000	–	–	Basic RNP1
004	TF	TAKAK	–	191 (183.0)	-7.6	8.0	–	+5000	–	–	Basic RNP1
005	TF	OBAMA	–	191 (183.0)	-7.6	6.1	–	–	-230	–	Basic RNP1
006	TF	AINOH	–	236 (228.0)	-7.6	2.7	–	–	-210	–	Basic RNP1
007	TF	FUBKI	–	296 (288.2)	-7.6	2.7	–	+2600	–	–	Basic RNP1

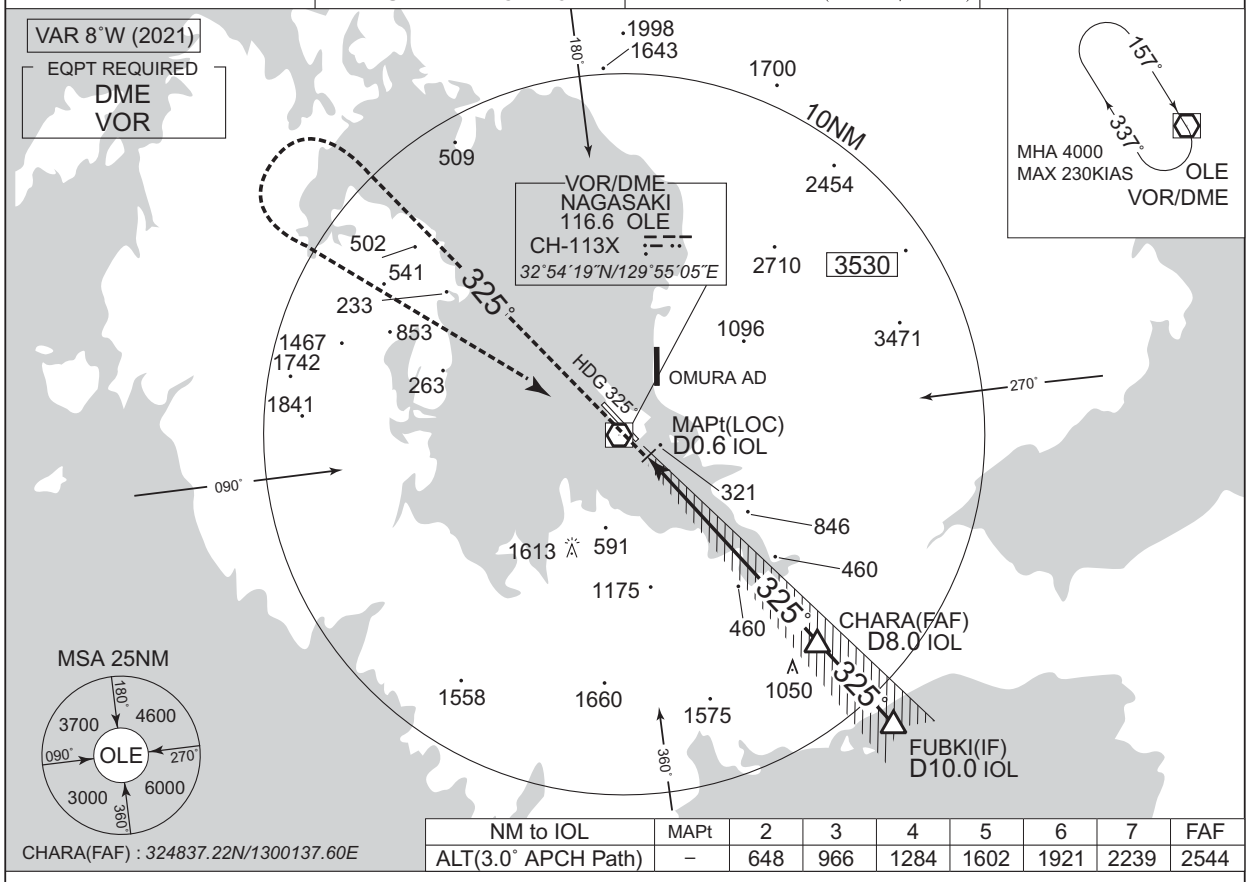
Path	Waypoint Identifier	Inbound Course ˚M(˚T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	TAKAK	191 (183.0)	-7.6	1.0(-14000) 1.5(+14001)	R	5000	–	-210(-14000) -240(+14001)	Basic RNP1

CHANGE : VAR. Navigation specification. PROC course(FUBUKI ARRIVAL). HLDG course.

INSTRUMENT APPROACH CHART

RJFU / NAGASAKI — ILS Z or LOC Z RWY32

NAGASAKI APP	ILS-LOC	NAGASAKI TOWER		RADAR AVBL
119.175 –121.025	110.9 IOL	118.5 - 126.2	2200 – 2245(UTC) 1215 – 1300(UTC) NAGASAKI RADIO 118.5 AFIS provided by Fukuoka Airport Office	ATIS 126.85
261.2	ILS–GP 330.8	122.7 - 236.8		
	ILS–DME CH-46X			

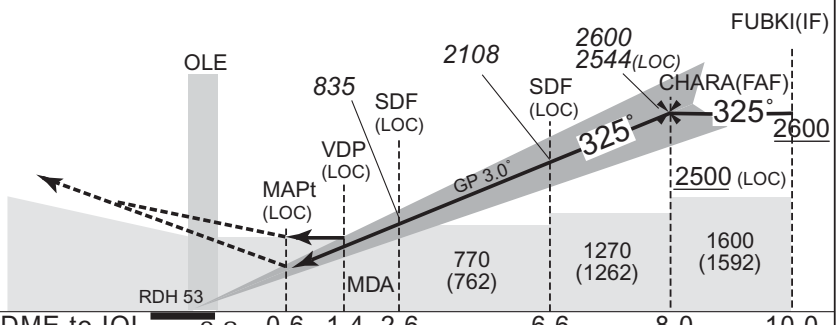


NM to IOL	MAPt	2	3	4	5	6	7	FAF
ALT(3.0˚ APCH Path)	–	648	966	1284	1602	1921	2239	2544

CHARA(FAF) : *324837.22N/1300137.60E*

MISSED APPROACH
Climb to 500FT on HDG325˚,
via OLE R325 to 3000FT, turn
left, direct to OLE VOR/DME
and hold at 4000FT.
Contact NAGASAKI APP.

Timing not authorized for defining the MAPt.



DME to IOL	0.2	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						2400
D				1400	890 (882)	3200

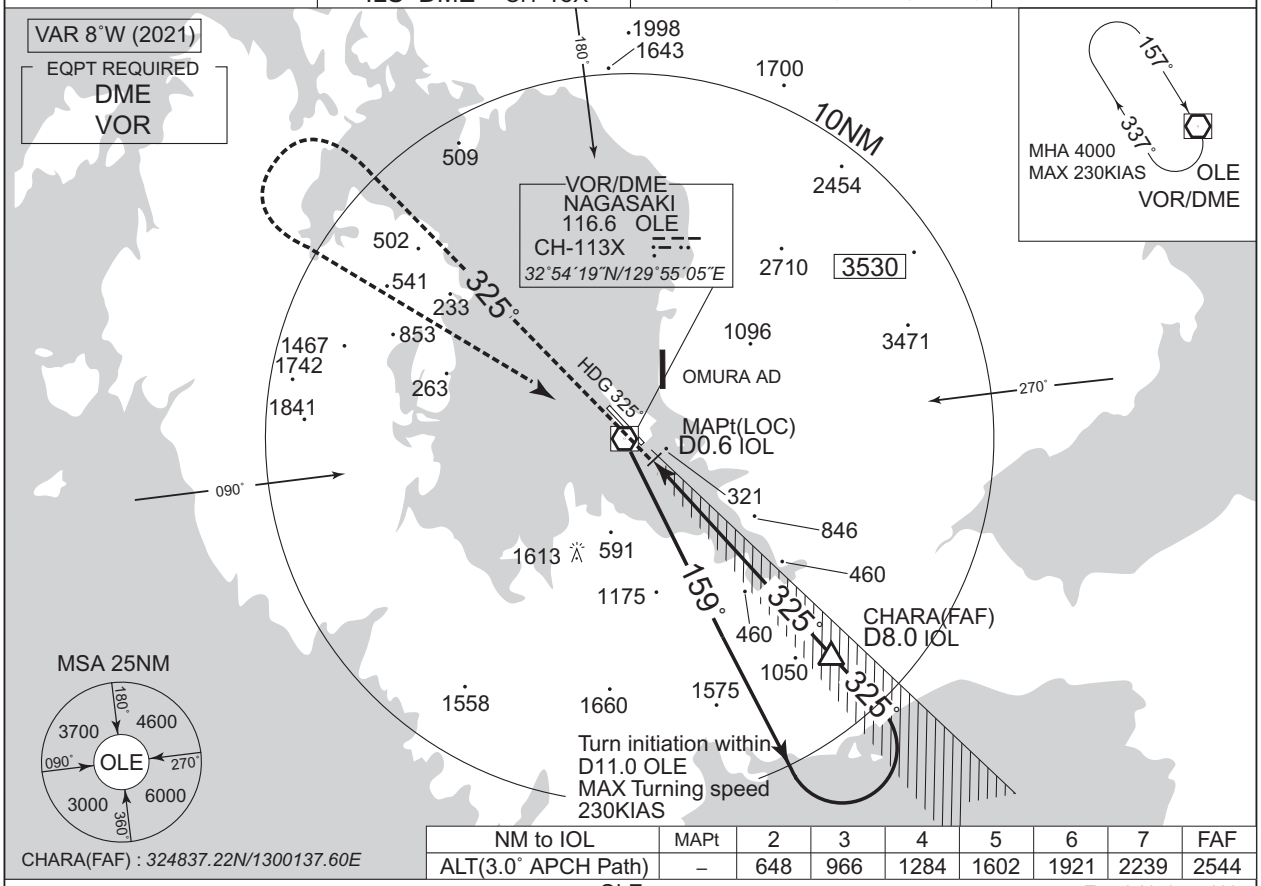
CHANGE : AFIS unit added.

INSTRUMENT APPROACH CHART

RJFU / NAGASAKI — ILS Y or LOC Y RWY32

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

2200 – 2245(UTC)
1215 – 1300(UTC)
NAGASAKI RADIO
118.5
AFIS provided by
Fukuoka Airport Office

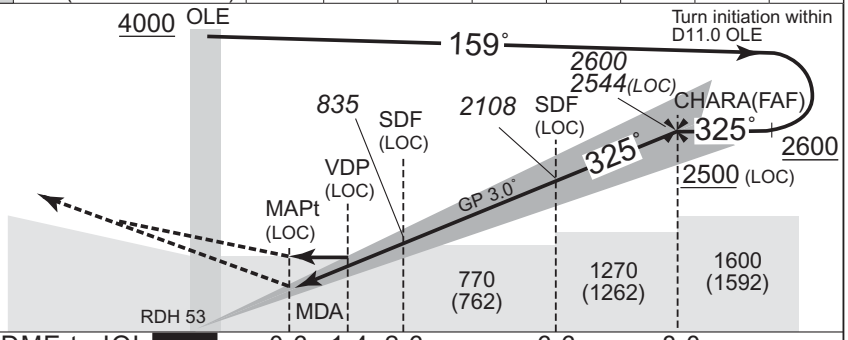


CHARA(FAF) : *324837.22N/1300137.60E*

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

MISSED APPROACH
Climb to 500FT on HDG325°,
via OLE R325 to 3000FT, turn
left, direct to OLE VOR/DME
and hold at 4000FT.
Contact NAGASAKI APP.

Timing not authorized for defining the MAPt.



DME to IOL	0.2	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

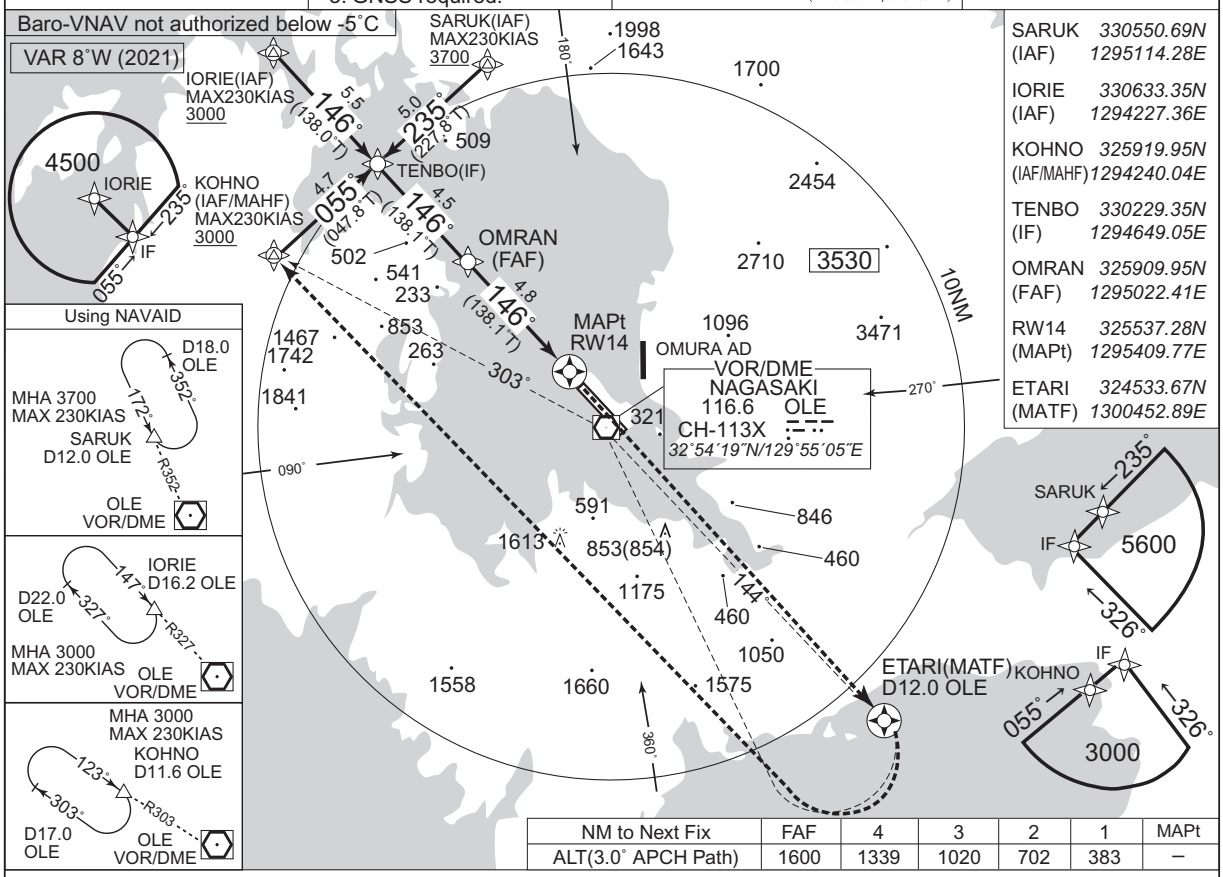
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	215 (200)	550	430 (422)	900	620 (612)	1600
B				1000		
C						2400
D				1400	890 (882)	3200

CHANGE : AFIS unit added.

INSTRUMENT APPROACH CHART

RJFU / NAGASAKI — RNAV(GNSS) RWY14

NAGASAKI APP 119.175 –121.025 261.2	1. DME/DME RNP0.3 not authorized. 2. RNP0.3 required. 3. GNSS required.	NAGASAKI TOWER 118.5 - 126.2 122.7 - 236.8 2200 – 2245(UTC) 1215 – 1300(UTC) NAGASAKI RADIO 118.5 AFIS provided by Fukuoka Airport Office	RADAR AVBL ATIS 126.85



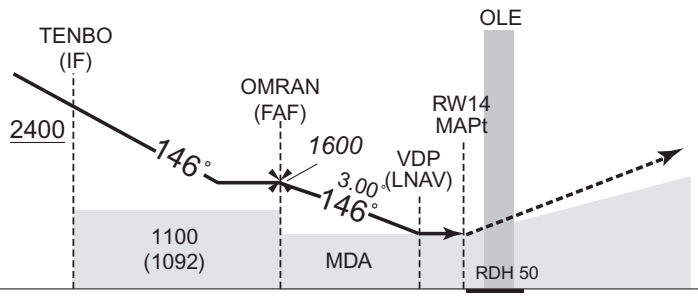
SARUK (IAF) 330550.69N 1295114.28E
IORIE (IAF) 330633.35N 1294227.36E
KOHNO (IAF/MAHF) 325919.95N 1294240.04E
TENBO (IF) 330229.35N 1294649.05E
OMRAN (FAF) 325909.95N 1295022.41E
RW14 (MAPt) 325537.28N 1295409.77E
ETARI (MATF) 324533.67N 1300452.89E

NM to Next Fix	FAF	4	3	2	1	MAPt
ALT(3.0˚ APCH Path)	1600	1339	1020	702	383	–

MISSED APPROACH

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

(For using VOR/DME)
Climb via OLE R144 to ETARI, turn right, direct to OLE VOR/DNE, via OLE R303 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		
C		1200		1200		2400
D		1400		1400	890(882)	3200

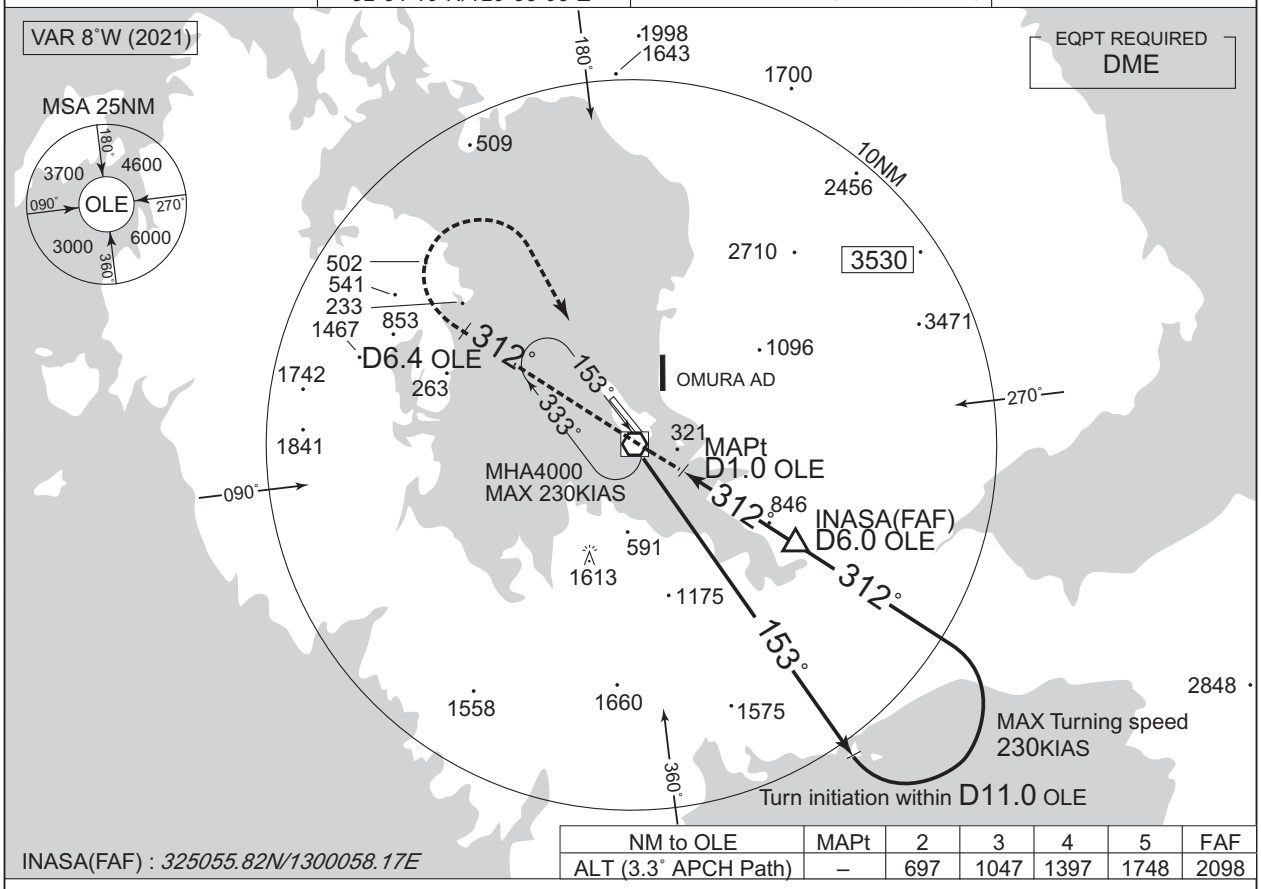
MINIMA with Missed APCH climb gradient 2.5% are not established.

CHANGE : AFIS unit added.

INSTRUMENT APPROACH CHART

RJFU / NAGASAKI — VOR RWY32

NAGASAKI APP	NAGASAKI VOR/DME	NAGASAKI TOWER		RADAR AVBL
119.175 - 121.025 261.2	116.6 OLE CH-113X *32°54′19″N/129°55′05″E*	118.5 - 126.2 122.7 - 236.8	2200 – 2245(UTC) 1215 – 1300(UTC) NAGASAKI RADIO 118.5 AFIS provided by Fukuoka Airport Office	ATIS 126.85



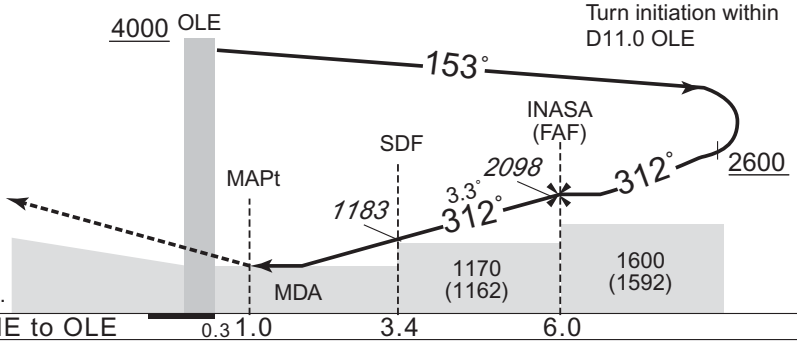
INASA(FAF) : *325055.82N/1300058.17E*

NM to OLE	MAPt	2	3	4	5	FAF
ALT (3.3° APCH Path)	–	697	1047	1397	1748	2098

MISSED APPROACH

Climb to 4000FT via OLE
R312 to OLE 6.4DME,
turn right direct to OLE
VOR/DME and hold.
Contact NAGASAKI APP.

PAPI and descent angles not coincident.
Timing not authorized for defining the MAPt.



DME to OLE	0.3	1.0	3.4	6.0
NM to THR	0	0.8	3.2	5.8

MINIMA — THR elev. 15 — AD elev. 8

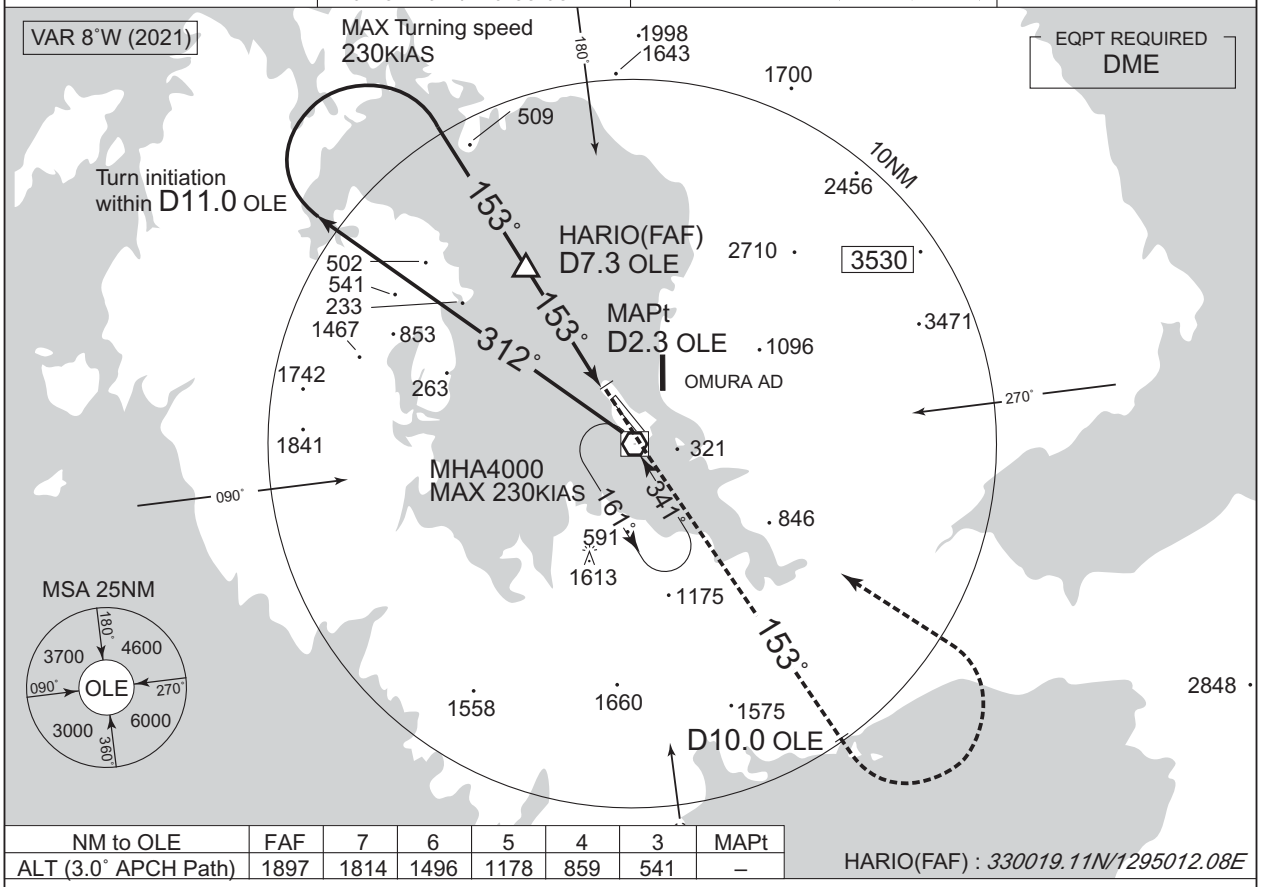
CAT			CIRCLING	
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	570 (562)	1000	620 (612)	1600
B		1200		
C				2400
D		1600	890 (882)	3200

CHANGE : AFIS unit added.

INSTRUMENT APPROACH CHART

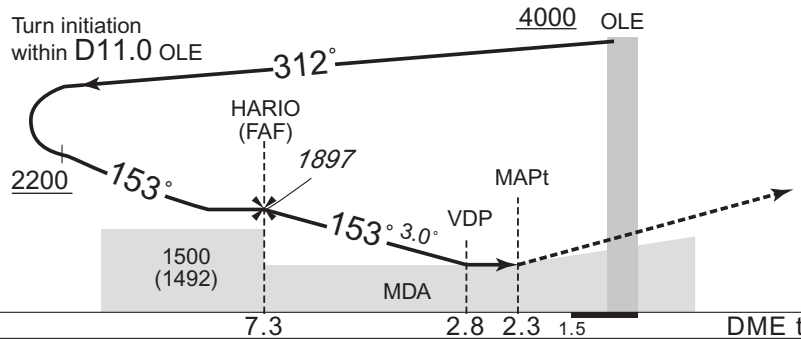
RJFU / NAGASAKI VOR RWY14

NAGASAKI APP	NAGASAKI VOR/DME	NAGASAKI TOWER	RADAR AVBL
119.175 - 121.025 261.2	116.6 OLE CH-113X *32°54′19″N/129°55′05″E*	118.5 - 126.2 122.7 - 236.8 2200 – 2245(UTC) 1215 – 1300(UTC) NAGASAKI RADIO 118.5 AFIS provided by Fukuoka Airport Office	ATIS 126.85



NM to OLE	FAF	7	6	5	4	3	MAPt
ALT (3.0° APCH Path)	1897	1814	1496	1178	859	541	–

HARIO(FAF) : *330019.11N/1295012.08E*



MISSED APPROACH

Climb to 4000FT via OLE
R153 to OLE 10.0DME,
turn left, direct to OLE
VOR/DME and hold.
Contact NAGASAKI APP.

Timing not authorized for defining the MAPt.

7.3		2.8	2.3	1.5		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

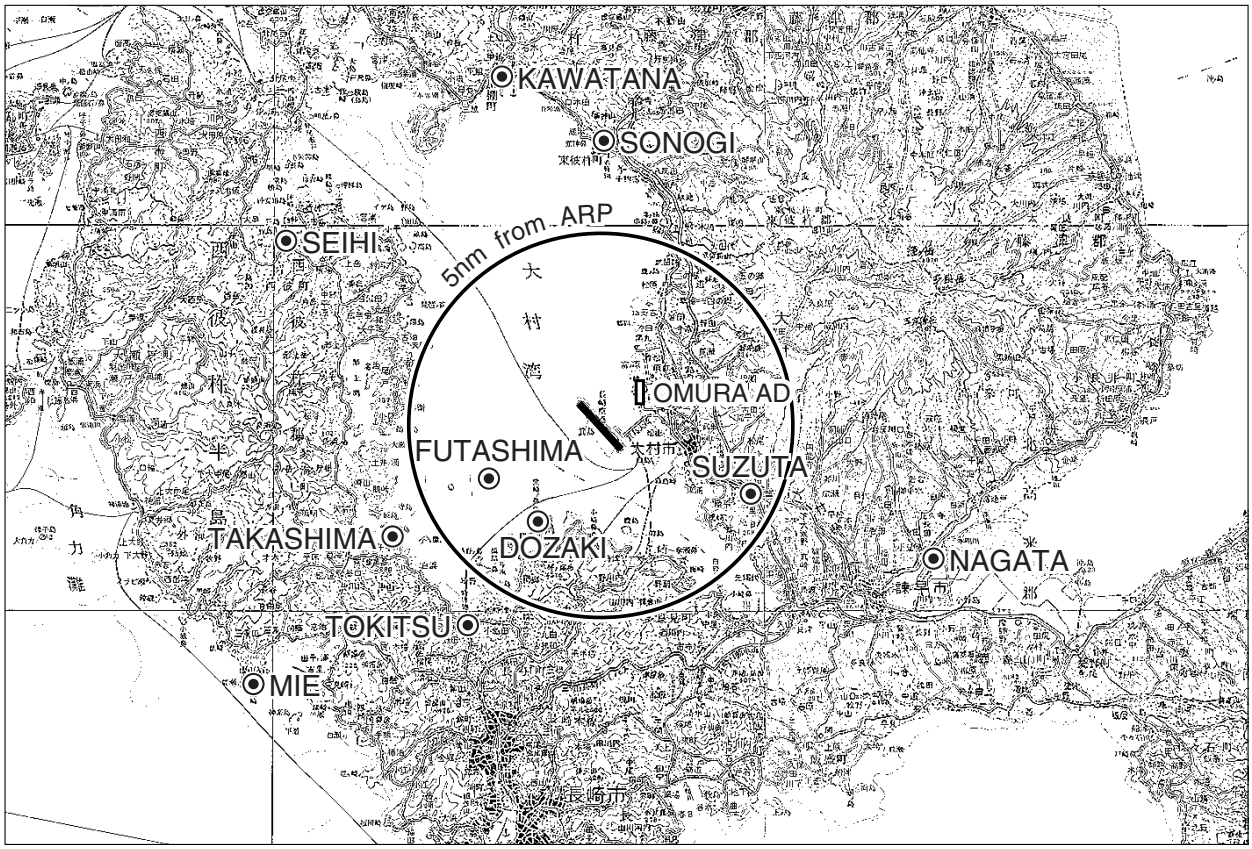
CAT			CIRCLING	
	MDA(H)	CMV	MDA(H)	VIS
A	490 (482)	1400	620 (612)	1600
B		1500		
C		1600		2400
D		1800	890 (882)	3200

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

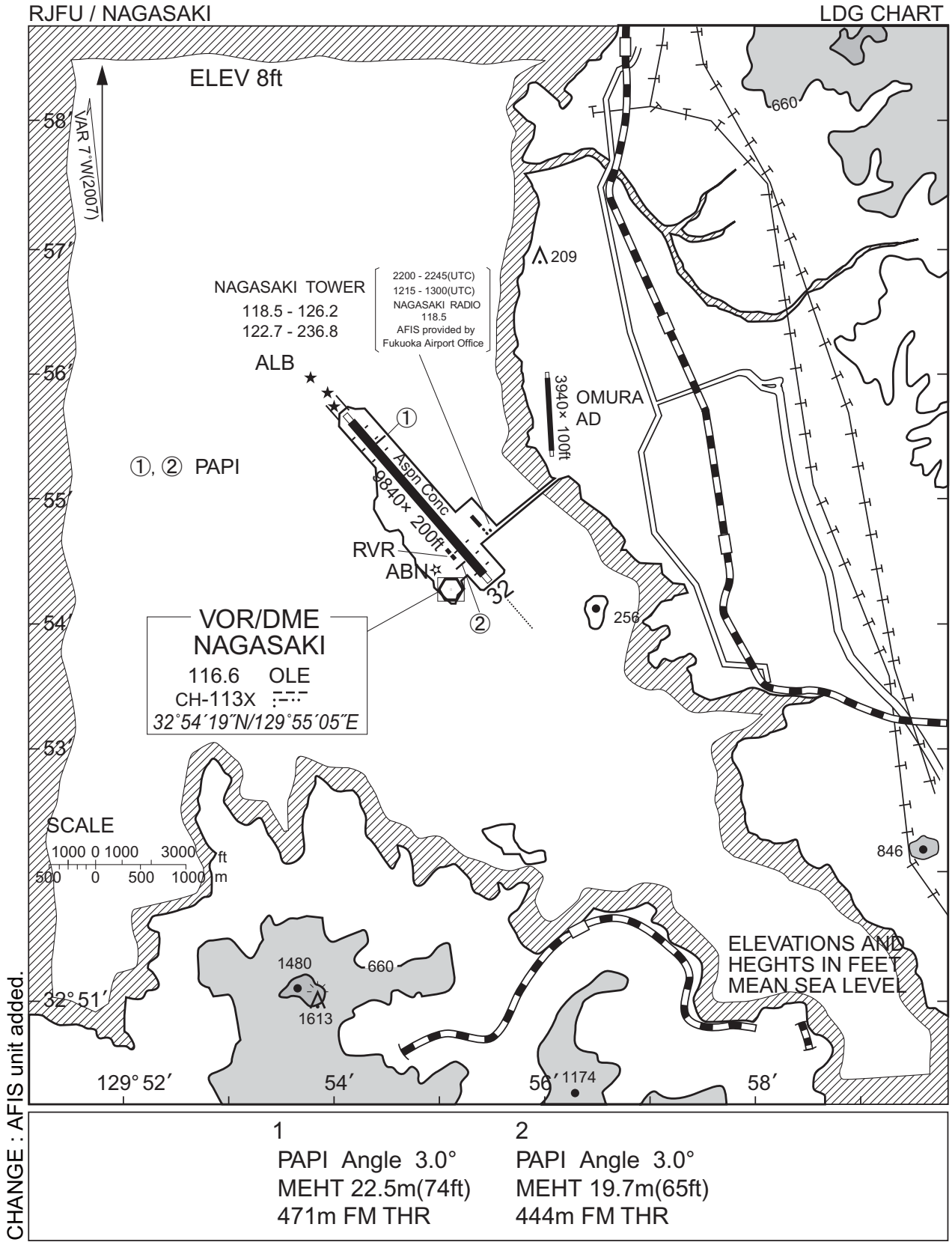
CHANGE : AFIS unit added.

INTENTIONALLY LEFT BLANK

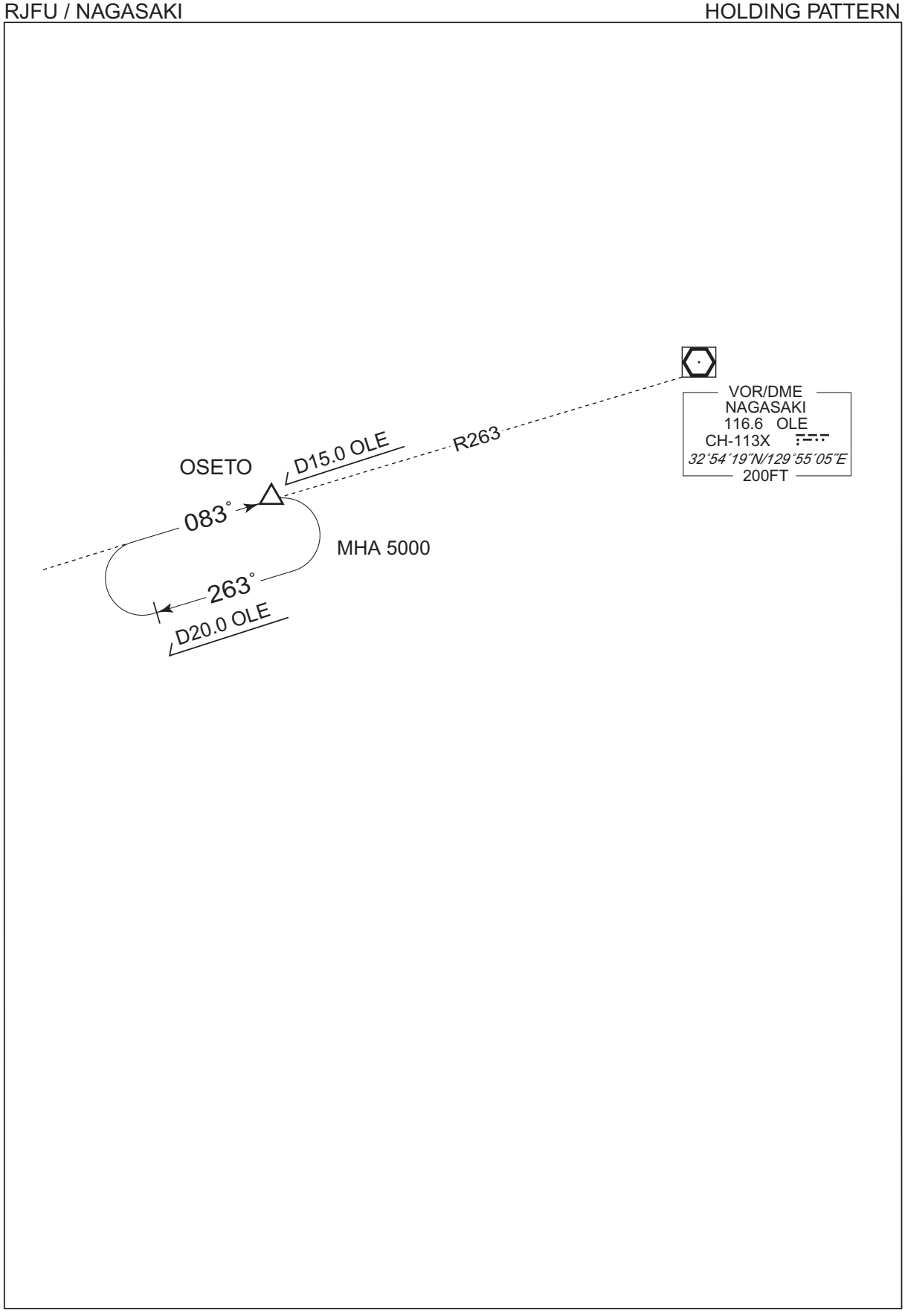
RJFU / NAGASAKI Visual REP



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

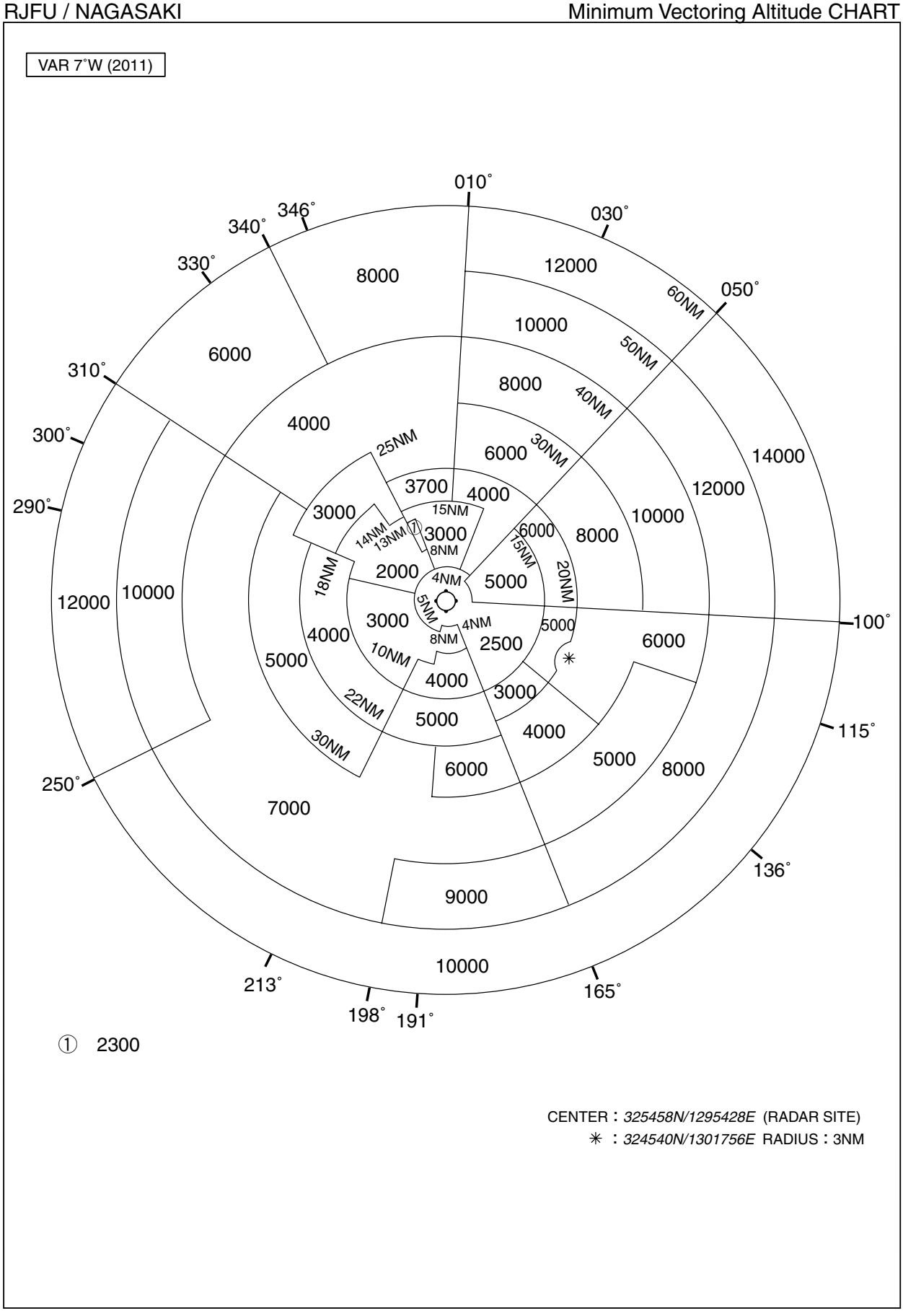

RJFU / NAGASAKI
LDG CHART
ELEV 8ft
VAR 7°W(2007)
58′
57′
56′
55′
54′
53′
32° 51′
129° 52′
54′
56′
58′
660
209
NAGASAKI TOWER
118.5 - 126.2
122.7 - 236.8
2200 - 2245(UTC)
1215 - 1300(UTC)
NAGASAKI RADIO
118.5
AFIS provided by
Fukuoka Airport Office
ALB
①, ② PAPI
①
Aspn Conc
9840× 200ft
RVR
ABN
②
32
3940× 100ft
OMURA
AD
256
VOR/DME
NAGASAKI
116.6 OLE
CH-113X
32°54′19″N/129°55′05″E
SCALE
1000 0 1000 3000 ft
500 0 500 1000 m
1480
660
1613
1174
846
ELEVATIONS AND
HEGHTS IN FEET
MEAN SEA LEVEL
CHANGE : AFIS unit added.
1
PAPI Angle 3.0°
MEHT 22.5m(74ft)
471m FM THR
2
PAPI Angle 3.0°
MEHT 19.7m(65ft)
444m FM THR

RJFU / NAGASAKI HOLDING PATTERN



CHANGE : HLDG course.

RJFU / NAGASAKI Minimum Vectoring Altitude CHART



① 2300