RJFU / NAGASAKI

AD CHART

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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

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

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

HORIZONTAL SCALE

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 TRANSITION

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.

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 FOUR 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: 13.0NM to FU401 - FU401
	DME GAP	RWY14 RWY14 DER - 13.0NM to FU401 RWY32 RWY32 DER - 4.0NM to FU200
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

CHIKUGO FOUR 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 : PROC.

STANDARD DEPARTURE CHART -INSTRUMENT

RJFU / NAGASAKI RNAV SID

CHIKUGO FOUR 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)	-7.5	–	–	+500	–	–	RNAV1
002	DF	FU401	–	–	-7.5	–	–	–	–	–	RNAV1
003	TF	UNZEN	–	029 (021.5)	-7.5	7.7	–	–	–	–	RNAV1
004	TF	WARAS	–	019 (011.9)	-7.5	4.3	–	-FL170	–	–	RNAV1
005	TF	GOROH	–	019 (011.9)	-7.5	8.2	–	+FL170	–	–	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	–	–	326 (318.1)	-7.5	–	–	+500	–	–	RNAV1
002	DF	FU200	–	–	-7.5	–	–	–	–	–	RNAV1
003	TF	TOHKI	–	055 (047.8)	-7.5	12.0	–	–	–	–	RNAV1
004	TF	HIZEN	–	131 (123.8)	-7.5	6.7	–	+13000	–	–	RNAV1
005	TF	MUTUU	–	131 (123.9)	-7.5	7.9	–	-FL170	–	–	RNAV1
006	TF	GOROH	–	131 (124.0)	-7.5	5.1	–	+FL170	–	–	RNAV1

CHANGE : PROC.

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(2020)

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	–	–	-7.5	–	–	+FL170	–	–	RNAV1
002	TF	KROKI	–	085 (077.9)	-7.5	17.8	–	+FL190	–	–	RNAV1
003	TF	OOITA	–	086 (078.1)	-7.5	54.3	–	–	–	–	RNAV1
004	TF	SALTY	–	065 (057.8)	-7.5	72.0	–	–	–	–	RNAV1

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	–	–	-7.5	–	–	+FL170	–	–	RNAV1
002	TF	KROKI	–	085 (077.9)	-7.5	17.8	–	+FL190	–	–	RNAV1
003	TF	OOITA	–	086 (078.1)	-7.5	54.3	–	–	–	–	RNAV1

CHANGE : PROC.

STANDARD ARRIVAL CHART-INSTRUMENT

RJFU / NAGASAKI — RNAV STAR

SARUKU ARRIVAL / FUBUKI ARRIVAL	RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

CHANGE : VAR. Course FM OHGIE to SARUK, FM AINOH to FUBKI. ALT Restriction of TAKAK. HLDG Pattern for TAKAK.

STANDARD ARRIVAL CHART-INSTRUMENT

RJFU / NAGASAKI RNAV STAR

CHANGE : VAR. Course FM OHGIE to SARUK, FM AINOH to FUBKI. ALT Restriction of TAKAK. HLDG Pattern for TAKAK.

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 — ILS Z or LOC Z RWY32

NAGASAKI APP	ILS-LOC	NAGASAKI TOWER	RADAR AVAILABLE
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

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 R324 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 : VAR, Missed approach

INSTRUMENT APPROACH CHART

RJFU / NAGASAKI — ILS Y or LOC Y RWY32

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

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 R324 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 : New PROC

INSTRUMENT APPROACH CHART

RJFU / NAGASAKI — RNAV(GNSS) RWY14

NAGASAKI APP		NAGASAKI TOWER	RADAR AVAILABLE
119.175 –121.025 261.2	1. DME/DME not authorized 2. RADAR service required. 3. GNSS required.	118.5 –126.2 –122.7 236.8	ATIS 126.85

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 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		
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

NAGASAKI APP	NAGASAKI VOR/DME	NAGASAKI TOWER	RADAR AVAILABLE
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	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
R311 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 : VAR, INASA(FAF) established, Editorial

INSTRUMENT APPROACH CHART

RJFU / NAGASAKI — VOR RWY14

NAGASAKI APP	NAGASAKI VOR/DME	NAGASAKI TOWER	RADAR AVAILABLE
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	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 R152 to OLE 10.0DME, turn left, direct to OLE VOR/DME and hold. Contact NAGASAKI APP.

Timing not authorized for defining the MAPt.

DME to OLE	7.3	2.8	2.3	1.5
NM to THR	5.8	1.3	0.8	0

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 : VAR, HARIO(FAF) established, Editorial

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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

1	2
PAPI Angle 3.0°	PAPI Angle 3.0°
MEHT 22.5m(74ft)	MEHT 19.7m(65ft)
471m FM THR	444m FM THR

CHANGE : NDB OMURA abolished

RJFU / NAGASAKI HOLDING PATTERN

RJFU / NAGASAKI Minimum Vectoring Altitude CHART

VAR 7˚W (2011)

① 2300

CENTER : *325458N/1295428E* (RADAR SITE)
✳ : *324540N/1301756E* RADIUS : 3NM