#### STANDARD DEPARTURE CHART - INSTRUMENT

#### RJFF / FUKUOKA RNAV SID and TRANSITION MORIO FOUR DEPARTURE RNAV 1 SATSUMA TRANSITION / SAKURA TRANSITION RWY16 :DGC "1.0NM FM DER~5.4NM FM DER" Note 1) DME/DME/IRU or GNSS required. IKE "1.0NM FM DER~5.4NM FM DER" \*The aircraft equipped with only DME/DME/IRU Critical DME RWY34:DGC "3.5NM to FF401~2.2NM to FF401" must be able to update its position without delay IKE "3.5NM to FF401~2.2NM to FF401" at the starting point of take-off roll. 2) RADAR service required. RWY16:DER~1.0NM FM DER RWY34:DER~0.9NM FM DER DME GAP 2.2NM to FF401~FF403 Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 VAR 8°W (2020) FF402 334212.3N 1302939.7E FF401 899 333931.4N 26 1302403.3E MORIO FOUR DEPARTURE ີ. ວ FF403 restriction at YAMGA. TRANSITION 333827.6N 1303213.2E 500 13.1 165 **TRANSITION** YAMGA 330605.9N 1304507.3E <u>13000</u> **KEIKA** 325439.2N SAKURA YURRY 1304343.3E **TRANSITION** 332622.1N FL180 500 1303817.8E FL160 **SATSUMA TRANSITION** KUMAMOTO(KUE) FF405 325005.3N **AJISE** 331704.3N 1305029.5E 315847.1N 1304125.8E 1303659.2E FL200 VOR/DME FF603 **KUMAMOTO** 331620.4N 112.8 KUE ALT 1303847.3E CH-75X :--6 32°50′05″N/130°50′29″E FL200 KAGOSHIMA(HKC) 700FT 314150.0N 314100.C. 1303458.6E course. VORTAC-YAMGA KAGOSHIMA 330605 9N 113.3 HKC CH-80x **≒**;= 1304507.3E $\Box$ 13000 *31°41′50″N/130°34′59″E* 1900FT S renamed. MORIO FOUR DEPARTURE RWY34: Climb on HDG 338° at or above 500FT, direct to FF401, to FF402, to FF403, to YURRY, to FF405 at or below FL200, to YAMGA at or above 13000FT. RWY16: Climb on HDG 158° at or above 500FT, direct to FF603 at or below FL200, to YAMGA at or above 13000FT. SID RWY34: 7.0% climb gradient required up to 2800FT. RWY16: 5.8% climb gradient required up to 1100FT. :VAR OBST ALT 399FT located at 1.2NM 138° FM end of RWY16. OBST ALT 1470FT located at 6.2NM 182° FM end of RWY16. SAKURA TRANSITION CHANG From YAMGA at or above 13000FT, to KUE. SATSUMA TRANSITION From YAMGA at or above 13000FT, to KEIKA between FL160 and FL180, to AJISE, to HKC.

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RJFF / FUKUOKA RNAV SID

# MORIO FOUR DEPARTURE

## RWY34

Serial	Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude	Speed	Vertical	Navigation
Number	Descriptor	Identifier	Over	°M(°T)	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	Specification
001	VA	_	_	338 (330.3)	-7.7	_	_	+500	_	_	RNAV1
002	DF	FF401	_	_	-7.7	_	_	_	_	_	RNAV1
003	TF	FF402	_	068 (060.1)	-7.7	5.4	_	_	_	_	RNAV1
004	TF	FF403	_	158 (150.4)	-7.7	4.3	_	_	_	_	RNAV1
005	TF	YURRY	_	165 (157.2)	-7.7	13.1	_	ĺ	_	_	RNAV1
006	TF	FF405	_	172 (164.3)	-7.7	9.7	_	-FL200	_	_	RNAV1
007	TF	YAMGA	_	172 (164.3)	-7.7	11.4	_	+13000	_	_	RNAV1

#### RWY16

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	Serial	Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude	Speed	Vertical	Navigation
	Number	Descriptor	Identifier	Over	°M(°T)	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	Specification
	001	VA	_	_	158 (150.3)	-7.7	_	_	+500	_	_	RNAV1
	002	DF	FF603	_	_	-7.7	_	_	-FL200	_	_	RNAV1
	003	TF	YAMGA	_	160 (152.6)	-7.7	11.5	_	+13000	_	_	RNAV1

## STANDARD DEPARTURE CHART - INSTRUMENT

# RJFF / FUKUOKA

## **RNAV TRANSITION**

## SAKURA TRANSITION

Serial	Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude	Speed	Vertical	Navigation
Number	Descriptor	Identifier	Over	°M(°T)	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	Specification
001	IF	YAMGA	_	_	-7.7	_	_	+13000	_	_	RNAV1
002	TF	KUE	_	172 (164.3)	-7.7	16.6	_	_	_	_	RNAV1

## SATSUMA 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	YAMGA	_	_	-7.7	_	_	+13000	_	_	RNAV1
002	TF	KEIKA	_	194 (185.9)	-7.7	11.5	_	-FL180 +FL160	_	_	RNAV1
003	TF	AJISE	_	194 (185.8)	-7.7	56.2	_	_	_	_	RNAV1
004	TF	HKC	_	193 (185.8)	-7.7	17.0	_	_	_	_	RNAV1