

STANDARD DEPARTURE CHART - INSTRUMENT

RJFF / FUKUOKA

RNAV SID and TRANSITION

MORIO FIVE DEPARTURE VEMRA TRANSITION / SAKURA TRANSITION		RNAV 1
<p>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.</p> <p>2 ) RADAR service required.</p>		<p>RWY16L/16R DGC : 19.6NM to FF603 - 14.8NM to FF603 IKE : 19.6NM to FF603 - 14.8NM to FF603</p> <p>RWY34L DGC : 3.3NM to F4L01 - 1.8NM to F4L01 IKE : 3.3NM to F4L01 - 1.8NM to F4L01 F4L01 - 2.8NM to FF402 AHT : F4L01 - 2.0NM to FF403</p> <p>RWY34R DGC : 3.3NM to FF401 - 1.8NM to FF401 IKE : 3.3NM to FF401 - 1.8NM to FF401 FF401 - 2.8NM to FF402 AHT : FF401 - 2.0NM to FF403</p>
DME GAP	<p>RWY16L/16R : DER - 19.6NM to FF603 RWY34L : DER - 3.3NM to F4L01 1.8NM to F4L01 - F4L01 RWY34R : DER - 3.3NM to FF401 1.8NM to FF401 - FF401</p>	Critical DME
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAV AIDs for RNAV1	
<p><b>MORIO FIVE DEPARTURE</b></p> <p>RWY34R : 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.</p> <p>RWY34L : Climb on HDG 338° at or above 500FT, direct to F4L01, to FF402, to FF403, to YURRY, to FF405 at or below FL200, to YAMGA at or above 13000FT.</p> <p>RWY16L/16R : Climb on HDG 158° at or above 500FT, direct to FF603 at or below FL200, to YAMGA at or above 13000FT.</p> <p>Note RWY34R/34L : 7.0% climb gradient required up to 2800FT. RWY16L/16R : 5.8% climb gradient required up to 1100FT.</p> <p>OBST ALT 399FT located at 1.2NM 138° FM end of RWY16L. OBST ALT 1470FT located at 6.2NM 182° FM end of RWY16L. OBST ALT 130FT located at 0.3NM 186° FM end of RWY16R.</p>		
<p><b>SAKURA TRANSITION</b></p> <p>From YAMGA at or above 13000FT, to KUE.</p>		
<p><b>VEMRA TRANSITION</b></p> <p>From YAMGA at or above 13000FT, to VEMRA.</p>		

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RNAV SID

MORIO FIVE DEPARTURE

RWY34R

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	—	—	338 (330.4)	-8.0	—	—	+500	—	—	RNAV1
002	DF	FF401	—	—	-8.0	—	—	—	—	—	RNAV1
003	TF	FF402	—	068 (060.1)	-8.0	5.4	—	—	—	—	RNAV1
004	TF	FF403	—	158 (150.4)	-8.0	4.3	—	—	—	—	RNAV1
005	TF	YURRY	—	165 (157.2)	-8.0	13.1	—	—	—	—	RNAV1
006	TF	FF405	—	172 (164.3)	-8.0	9.7	—	-FL200	—	—	RNAV1
007	TF	YAMGA	—	172 (164.3)	-8.0	11.4	—	+13000	—	—	RNAV1

RWY34L

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	—	—	338 (330.4)	-8.0	—	—	+500	—	—	RNAV1
002	DF	F4L01	—	—	-8.0	—	—	—	—	—	RNAV1
003	TF	FF402	—	068 (060.1)	-8.0	5.5	—	—	—	—	RNAV1
004	TF	FF403	—	158 (150.4)	-8.0	4.3	—	—	—	—	RNAV1
005	TF	YURRY	—	165 (157.2)	-8.0	13.1	—	—	—	—	RNAV1
006	TF	FF405	—	172 (164.3)	-8.0	9.7	—	-FL200	—	—	RNAV1
007	TF	YAMGA	—	172 (164.3)	-8.0	11.4	—	+13000	—	—	RNAV1

RWY16L/ RWY16R

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	—	—	158 (150.3)	-8.0	—	—	+500	—	—	RNAV1
002	DF	FF603	—	—	-8.0	—	—	-FL200	—	—	RNAV1
003	TF	YAMGA	—	161 (152.6)	-8.0	11.5	—	+13000	—	—	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
F4L01	333928.0N / 1302356.2E	YURRY	332622.1N / 1303817.8E
FF401	333931.4N / 1302403.3E	FF405	331704.3N / 1304125.8E
FF402	334212.3N / 1302939.7E	FF603	331620.4N / 1303847.3E
FF403	333827.6N / 1303213.2E	YAMGA	330605.9N / 1304507.3E

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RNAV TRANSITION

SAKURA 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	—	—	-8.0	—	—	+13000	—	—	RNAV1
002	TF	KUE	—	172 (164.3)	-8.0	16.6	—	—	—	—	RNAV1

DEMURA 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	—	—	-8.0	—	—	+13000	—	—	RNAV1
002	TF	DEMURA	—	194 (185.9)	-8.0	11.5	—	—	—	—	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates
YAMGA	330605.9N / 1304507.3E
KUE	325005.3N / 1305029.5E
DEMURA	325439.2N / 1304343.3E