RJBB / KANSAI INTL **RNAV SID** HELEN ONE DEPARTURE RNAV1 1) DME/DME/IRU or GNSS required. Critical DME * The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting DME GAP point of take-off roll. Inappropriate Navaids See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 2) RADAR service required. VAR 7°W (2015) HELEN ONE DEPARTURE **MAIKO** 343639.7N VOR/DME <u>8000</u> 1345949.1E KOBE (for RWY24R/L) 111.25 KCE CH-49Y 34°37′52″N/135°13′42″E 10.3 **HELEN** 0FT 343448.9N 295 B6R11 343140.8N 1350651.8E 1351845.1E <u>2500</u> B6R10 342759.6N 1351746.0E BB430 342436.6N 1350309.3E VOR/DME MAX210KIAS **KANSAI** B4L10 KNE 111.8 342136.9N CH-55X 1350734.5E 34°25′48″N/<u>13</u>5°15′06″E

HELEN ONE DEPARTURE

RWY06R: Climb on HDG058° at or above 500FT, direct to <u>B6R10</u>, turn left direct to B6R11 at or above

2500FT, to HELEN, to MAIKO.

RWY06L: Climb on HDG058° at or above 500FT, turn left direct to HELEN, to MAIKO.

RWY24R: Climb on HDG238° at or above 500FT, turn right direct to BB430, to HELEN at or above

8000FT, to MAIKO.

RWY24L: Climb on HDG238° at or above 500FT, direct to B4L10, turn right direct to BB430, to HELEN

at or above 8000FT, to MAIKO.

RJBB / KANSAI INTL RNAV SID

HELEN ONE DEPARTURE

RWY06R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	_	_	058 (050.9)	-7.4	_	_	+500	_	_	RNAV1
002	DF	B6R10	Υ	_	-7.4	_	_	_	_	_	RNAV1
003	DF	B6R11	_	_	-7.4	_	L	+2500	_	_	RNAV1
004	TF	HELEN	_	295 (287.8)	-7.4	10.3	_	_	_	_	RNAV1
005	TF	MAIKO	_	295 (287.7)	-7.4	6.1	_	_	_	_	RNAV1

RWY06L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	
001	VA	_	_	058 (050.9)	-7.4	_	_	+500	_	_	RNAV1
002	DF	HELEN	_	_	-7.4	_	L	-	_	_	RNAV1
003	TF	MAIKO	_	295 (287.7)	-7.4	6.1	_	_	_	_	RNAV1

RJBB / KANSAI INTL RNAV SID

RWY24R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	_	_	238 (230.9)	-7.4	_	_	+500	1	_	RNAV1
002	DF	BB430	_	_	-7.4	_	R	_	-210	_	RNAV1
003	TF	HELEN	_	024 (016.6)	-7.4	10.7	_	+8000	_	_	RNAV1
004	TF	MAIKO	_	295 (287.7)	-7.4	6.1	_	_	_	_	RNAV1

RWY24L

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	-	_	238 (230.9)	-7.4	_	_	+500	_	_	RNAV1
002	DF	B4L10	Υ	_	-7.4	_	_	-	_	_	RNAV1
003	DF	BB430	-	_	-7.4	_	R	ı	-210	_	RNAV1
004	TF	HELEN	_	024 (016.6)	-7.4	10.7	_	+8000	_	-	RNAV1
005	TF	MAIKO	_	295 (287.7)	-7.4	6.1	_	_	_	_	RNAV1

RJBB / KANSAI INTL

IWAYA ONE DEPARTURE

RNAV1

Note 1) DME/DME/IRU or GNSS required.

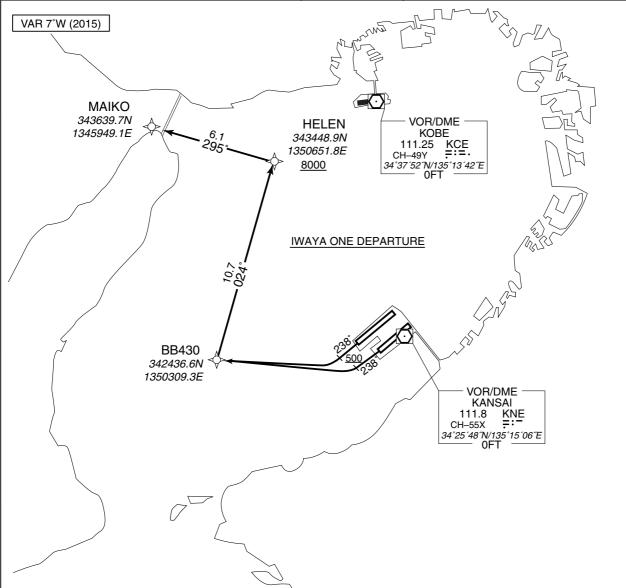
** The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off roll.

2) RADAR service required.

Critical DME

DME GAP

Inappropriate Navaids See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1



IWAYA ONE DEPARTURE

RWY24R: Climb on HDG238° at or above 500FT, turn right direct to BB430, to HELEN at or above

8000FT, to MAIKO.

RWY24L: Climb on HDG238° at or above 500FT, turn right direct to BB430, to HELEN at or above

8000FT, to MAIKO.

Note RWY24L: No turn before DER.

RJBB / KANSAI INTL RNAV SID

IWAYA ONE DEPARTURE

RWY24R

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	_	_	238 (230.9)	-7.4	_	_	+500	_	_	RNAV1
002	DF	BB430	_	_	-7.4	_	R	_	_	_	RNAV1
003	TF	HELEN	_	024 (016.6)	-7.4	10.7	_	+8000	_	_	RNAV1
004	TF	MAIKO	_	295 (287.7)	-7.4	6.1	_	_	_	_	RNAV1

RWY24L

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	_	_	238 (230.9)	-7.4	_	_	+500	-	_	RNAV1
002	DF	BB430	_	_	-7.4	_	R	_	1	_	RNAV1
003	TF	HELEN	_	024 (016.6)	-7.4	10.7	_	+8000	_	_	RNAV1
004	TF	MAIKO	_	295 (287.7)	-7.4	6.1	_	-	_	_	RNAV1

3 0. 1	TRANSITIO	N / SOUJA	TRANS	ITION / V	VASYU TRA	ANSITION	/ HABAR	TRANSIT	ION	R	NAV1
	111/11/01/10				or GNSS req						14/ (V 1
Inan	propriate Na			, , , , , , , , , , , , , , , , , , , ,			. Inappropi			RNAV/1	
	· · · · · · · · · · · · · · · · · · ·	avaius			OCC AD	1.1.0.10.0	. шарргорі	iate IVAVA	103 101 1	111/71	
VAR 7°	W(2009)										
WASYU 342817.51 332301.11		SITION 44.6 = 281	35.0 267	SITION	SHION 342542.1 1341657.4	'N	WENI 343209. 1345030.	5N 8%	MAIKC 343638 1345948	9.7N	
							ŕ				
SHION	TRANSITI	ON							-		
		WENDY, to	SHIO	N.				cal DME IE GAP			<u>-</u>
Serial	Path	Waypoint	Fly	Course	Magnetic	Distance		Altitude	Speed	Vertical	Navigation
	Descriptor		Over	°M(°T)	Variation		Direction	(FT)	(KIAS)	Angle	Specification
001	IF	MAIKO	_	_	-7.2	_	_	_	_	_	RNAV1
002	TF	WENDY	_	247 (239.6)	-7.2	8.9	_	_	_	_	RNAV1
003	TF	SHION	_	264 (257.0)	-7.2	28.4	_	_	_	_	RNAV1
SOUJA	TRANSITI	ON					Critic	cal DME			_
From N	//AIKO, to \	WENDY, to	SHIO	N. to SO	U.IA			IE GAP			
		,		,	00,			IE GAF			
Serial	Path Descriptor	Waypoint	Fly Over	Course °M(°T)	Magnetic Variation			Altitude (FT)	Speed (KIAS)	Vertical Angle	
Serial		Waypoint	Fly	Course °M(°T)	Magnetic		Turn	Altitude			
Serial Number	Descriptor	Waypoint Identifier	Fly	Course °M(°T)	Magnetic Variation		Turn	Altitude			Specification
Serial Number 001	Descriptor IF	Waypoint Identifier MAIKO	Fly	Course °M(°T) — 247 (239.6)	Magnetic Variation -7.2	(NM) —	Turn	Altitude			Specification RNAV1
Serial Number 001 002	Descriptor IF TF	Waypoint Identifier MAIKO WENDY	Fly	Course °M(°T) — 247 (239.6) 264 (257.0) 301	Magnetic Variation -7.2 -7.2	(NM) — 8.9	Turn	Altitude			Specification RNAV1 RNAV1
Serial Number 001 002 003 004 WASYL	Descriptor IF TF TF TF JTRANSIT	Waypoint Identifier MAIKO WENDY SHION SOUJA	Fly Over — — —	Course °M(°T) 247 (239.6) 264 (257.0) 301 (294.1)	Magnetic Variation -7.2 -7.2 -7.2 -7.2	(NM) - 8.9 28.4	Turn Direction Critic	Altitude (FT) — — — — —	(KIAS)		Specification RNAV1 RNAV1 RNAV1
Serial Number 001 002 003 004 WASYL From N	Descriptor IF TF TF TF JTRANSIT	Waypoint Identifier MAIKO WENDY SHION SOUJA TION WENDY, to	Fly Over — — — — SHIO	Course *M(*T) 247 (239.6) 264 (257.0) 301 (294.1) N, to WA	Magnetic Variation -7.2 -7.2 -7.2 -7.2	(NM) - 8.9 28.4 29.4	Turn Direction Critic	Altitude (FT) — — — — — — cal DME	(KIAS)	Angle	Specification RNAV1 RNAV1 RNAV1 RNAV1
Serial Number 001 002 003 004 WASYU From N	Descriptor IF TF TF TF JTRANSIT	Waypoint Identifier MAIKO WENDY SHION SOUJA TON WENDY, to Waypoint	Fly Over — — —	Course °M(°T) 247 (239.6) 264 (257.0) 301 (294.1)	Magnetic Variation -7.2 -7.2 -7.2 -7.2	(NM) 8.9 28.4 29.4 Distance	Turn Direction Critic	Altitude (FT) — — — — —	(KIAS)	Angle	Specification RNAV1 RNAV1 RNAV1 RNAV1
Serial Number 001 002 003 004 WASYL From N	IF TF TF TF JTRANSIT MAIKO, to \ Path	Waypoint Identifier MAIKO WENDY SHION SOUJA TION WENDY, to Waypoint	Fly Over — — — — SHIO	Course *M(*T) 247 (239.6) 264 (257.0) 301 (294.1) N, to WA Course	Magnetic Variation -7.2 -7.2 -7.2 -7.2 SYU.	(NM) 8.9 28.4 29.4 Distance	Turn Direction Critic DM Turn	Altitude (FT)	(KIAS) Speed	Angle Vertical	Specification RNAV1 RNAV1 RNAV1 RNAV1
Serial Number 001 002 003 004 WASYL From N Serial Number	IF TF TF TF J TRANSIT MAIKO, to \ Path Descriptor	Waypoint Identifier MAIKO WENDY SHION SOUJA TION WENDY, to Waypoint Identifier	Fly Over — — — — SHIO	Course °M(°T)	Magnetic Variation -7.2 -7.2 -7.2 -7.2 SYU. Magnetic Variation	(NM) 8.9 28.4 29.4 Distance	Turn Direction Critic DM Turn	Altitude (FT)	(KIAS) Speed	Angle Vertical	Specification RNAV1 RNAV1 RNAV1 RNAV1 Navigation Specification
Serial Number 001 002 003 004 WASYU From N Serial Number 001	IF TF TF TF J TRANSIT MAIKO, to \ Path Descriptor	Waypoint Identifier MAIKO WENDY SHION SOUJA TION WENDY, to Waypoint Identifier MAIKO	Fly Over — — — — SHIO	Course	Magnetic Variation -7.2 -7.2 -7.2 -7.2 SYU. Magnetic Variation -7.2	(NM) 8.9 28.4 29.4 Distance (NM)	Turn Direction Critic DM Turn	Altitude (FT)	(KIAS) Speed	Angle Vertical	Specification RNAV1 RNAV1 RNAV1 RNAV1
Serial Number 001 002 003 004 WASYL From N Serial Number 001 002	Descriptor IF TF TF J TRANSIT MAIKO, to \ Path Descriptor IF TF	Waypoint Identifier MAIKO WENDY SHION SOUJA TION WENDY, to Waypoint Identifier MAIKO WENDY	Fly Over — — — — SHIO	Course °M(°T)	Magnetic Variation -7.2 -7.2 -7.2 -7.2 SYU. Magnetic Variation -7.2 -7.2	(NM) 8.9 28.4 29.4 Distance (NM) 8.9	Turn Direction Critic DM Turn	Altitude (FT)	(KIAS) Speed	Angle Vertical	Specification RNAV1 RNAV1 RNAV1 Navigation Specification RNAV1 RNAV1
Serial Number 001 002 003 004 WASYL From N Serial Number 001 002 003 004 HABAR	IF TF TF J TRANSIT MAIKO, to V Path Descriptor IF TF TF TF TF TF TRANSIT	Waypoint Identifier MAIKO WENDY SHION SOUJA TION WENDY, to Waypoint Identifier MAIKO WENDY SHION WENDY SHION WASYU	Fly Over — — — SHIO Fly Over — —	Course °M(°T)	Magnetic Variation -7.2 -7.2 -7.2 -7.2 SYU. Magnetic Variation -7.2 -7.2 -7.2 -7.2 -7.2	(NM) 8.9 28.4 29.4 Distance (NM) 8.9 28.4	Turn Direction Critic DM Turn Direction Critic	Altitude (FT)	Speed (KIAS)	Angle Vertical	Specification RNAV1 RNAV1 RNAV1 RNAV1 Navigation Specification RNAV1 RNAV1 RNAV1
Serial Number 001 002 003 004 WASYL From N Serial Number 001 002 003 004 HABAR From N	Descriptor IF TF TF J TRANSIT MAIKO, to V Path Descriptor IF TF TF TF TRANSIT MAIKO, to V	Waypoint Identifier MAIKO WENDY SHION SOUJA TION WENDY, to Waypoint Identifier MAIKO WENDY SHION WENDY SHION WASYU ION WENDY, to	Fly Over — — — SHIO Fly Over — — —	Course °M(°T)	Magnetic Variation -7.2 -7.2 -7.2 -7.2 SYU. Magnetic Variation -7.2 -7.2 -7.2 -7.2 -7.2 BAR.	(NM)	Turn Direction Critic DM Critic DM Critic DM	Altitude (FT)	Speed (KIAS)	Vertical Angle — — — — — — — — — — — — — —	Specification RNAV1 RNAV1 RNAV1 RNAV1 Navigation Specification RNAV1 RNAV1 RNAV1 RNAV1
Serial Number 001 002 003 004 WASYL From N Serial Number 001 002 003 004 HABAR From N	IF TF TF J TRANSIT MAIKO, to V Path Descriptor IF TF TF TF TF TF TRANSIT	Waypoint Identifier MAIKO WENDY SHION SOUJA TION WENDY, to Waypoint Identifier MAIKO WENDY SHION WENDY SHION WASYU ION WENDY, to Waypoint	Fly Over — — — SHIO Fly Over — —	Course °M(°T)	Magnetic Variation -7.2 -7.2 -7.2 -7.2 SYU. Magnetic Variation -7.2 -7.2 -7.2 -7.2 -7.2	(NM)	Turn Direction Critic DM Critic DM Critic DM	Altitude (FT)	Speed (KIAS)	Vertical Angle — — — — — — — — — — — — — —	Specification RNAV1 RNAV1 RNAV1 RNAV1 Navigation Specification RNAV1 RNAV1 RNAV1 RNAV1 RNAV1 RNAV1 Navigation
Serial Number 001 002 003 004 WASYL From N Serial Number 001 002 003 004 HABAR From N	Descriptor IF TF TF TF J TRANSIT MAIKO, to \ Path Descriptor IF TF TF TF TRANSIT MAIKO, to \ Path Path	Waypoint Identifier MAIKO WENDY SHION SOUJA TION WENDY, to Waypoint Identifier MAIKO WENDY SHION WENDY SHION WASYU ION WENDY, to Waypoint	Fly Over — — SHIO Fly Over — — — SHIO	Course	Magnetic Variation -7.2 -7.2 -7.2 -7.2 SYU. Magnetic Variation -7.2 -7.2 -7.2 -7.2 -7.2 Magnetic Variation	(NM)	Turn Direction Critic DM Turn Direction Critic DM Turn	Altitude (FT) — — — — — — — — — — — — — — — — — —	Speed (KIAS)	Vertical Angle — Vertical Angle — Vertical Vertical	Specification RNAV1 RNAV1 RNAV1 RNAV1 Navigation Specification RNAV1 RNAV1 RNAV1 RNAV1 RNAV1 RNAV1 Navigation
Serial Number 001 002 003 004 WASYU From N 001 002 003 004 HABAR From N Serial Number	Descriptor IF TF TF J TRANSIT MAIKO, to \ Path Descriptor IF TF TF TRANSIT MAIKO, to \ Path Descriptor	Waypoint Identifier MAIKO WENDY SHION SOUJA TON WENDY, to Waypoint Identifier MAIKO WENDY SHION WENDY SHION WASYU ION WENDY, to Waypoint Identifier	Fly Over — — SHIO Fly Over — — — SHIO	Course °M(°T)	Magnetic Variation -7.2 -7.2 -7.2 -7.2 SYU. Magnetic Variation -7.2 -7.2 -7.2 -7.2 BAR. Magnetic Variation	(NM)	Turn Direction Critic DM Turn Direction Critic DM Turn	Altitude (FT) — — — — — — — — — — — — — — — — — —	Speed (KIAS)	Vertical Angle — Vertical Angle — Vertical Vertical	Specification RNAV1 RNAV1 RNAV1 RNAV1 Navigation Specification RNAV1 RNAV1 RNAV1 RNAV1 RNAV1 Navigation Specification
Serial Number 001 002 003 004 MASYL From N 001 002 003 004 HABAR From N Serial Number 001	Descriptor IF TF TF J TRANSIT MAIKO, to \ Path Descriptor IF TF TF TF TRANSIT MAIKO, to \ Path Descriptor IF	Waypoint Identifier MAIKO WENDY SHION SOUJA TON WENDY, to Waypoint Identifier MAIKO WENDY SHION WASYU ION WENDY, to Waypoint Identifier MAIKO WENDY MENDY MENDY, to	Fly Over — — SHIO Fly Over — — — SHIO	Course	Magnetic Variation -7.2 -7.2 -7.2 -7.2 SYU. Magnetic Variation -7.2 -7.2 -7.2 -7.2 -7.2 -7.2 -7.2 -7.2 -7.2	(NM)	Turn Direction Critic DM Turn Direction Critic DM Turn	Altitude (FT) — — — — — — — — — — — — — — — — — —	Speed (KIAS)	Vertical Angle	Specification RNAV1 RNAV1 RNAV1

RJBB / KANSAI INTL **RNAV TRANSITION** CHIZU TRANSITION RNAV1 KNE: 17.1NM to YME - 14.1NM to YME Note 1) DME/DME/IRU or GNSS required. Critical DME YME: 17.1NM to YME - 14.1NM to YME 2) RADAR service required. DME GAP Inappropriate Navaids See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1. VAR 8° W(2019) MIYAZU(YME) 352850.5N 1350813.3E VOR/DME MIYAZU 112.6 YME CH-73X 35°28′50″N/135°08′13″E 2400FT **CHIZU** 350146.2N 1343025.4E CHIZU TRANSITION AYAYA 344519.1N 1343217.7E CHANGE: VAR. AYAYA established. Course FM MAIKO to KAWAT 21.8 MAÏKO KAWAT 343639.7N 343419.4N 1345949.1E 1343332.3E 8000 **CHIZU TRANSITION** From MAIKO, to KAWAT at or above 8000FT, to AYAYA, to CHIZU, to YME. Fly Vertical Navigation Serial Path Waypoint Course Magnetic Distance Turn Altitude Speed Number Descriptor Identifier Over °M(°T) Variation (NM) Direction (FT) (KIAS) Angle Specification 001 IF **MAIKO** -7.7 RNAV1 272 (264.0) 002 TF **KAWAT** -7.7 21.8 +8000 RNAV1 002 (354.7) 003 **AYAYA** RNAV1 TF -7.7 11.0 002 (354.7) 004 16.5 TF **CHIZU** -7.7 RNAV1 056 (048.6) 005 TF 41.1 RNAV1 YME -7.7