



RJFM / MIYAZAKI SID

# SIIBA ONE DEPARTURE

RWY27: Climb via MZE R275 to 6.0DME, turn right HDG060° to intercept

and proceed via MZE R015 to SIIBA. Cross MZE R345 at or above 6000FT.

RWY09: Climb via MZE R091 to 8.0DME, turn left HDG330° to intercept

and proceed via MZE R015 to SIIBA. Cross MZE R040 at or above 6000FT.

Note RWY27: 5.0% climb gradient required up to 5000FT.

OBST ALT 1637FT located at 8.3NM 285° FM end of RWY27.



RJFM / MIYAZAKI SID

# SASIK THREE DEPARTURE

RWY27 : Climb via MZE R275 to 10.0DME, turn right HDG350°...

RWY09: Climb RWY HDG to 1000FT, turn left HDG275°...

...to intercept and proceed via MZE R305 to SASIK via TORIK and LALAG. Cross TORIK at assigned altitude.

Note RWY27: 5.0% climb gradient required up to 5000FT.

OBST ALT 152FT located at 0.7NM 276° FM end of RWY27.

RWY09: 5.0% climb gradient required up to 1000FT.



RJFM / MIYAZAKI SID

# MIYAZAKI REVERSAL ONE DEPARTURE

RWY 27: Climb via MZE R275 to 10.0DME, turn right,...

RWY 09: Turn right, climb via MZE R138 to 12.0DME, turn left,...

...direct to MZE VOR/DME.

Note RWY27: 5.0% climb gradient required up to 5000FT.

OBST ALT 152FT located at 0.7NM 276° FM end of RWY27.

# JACKY ONE DEPARTURE

RWY 27: Climb RWY HDG to MZE 2.0DME, turn right, direct to MZE VOR/DME,...

RWY 09: Turn right, climb...

...via MZE R138 to JACKY.

Note RWY27: 5.0% climb gradient required up to 500FT.

OBST ALT 395FT located at 3.1NM 281° FM end of RWY27.



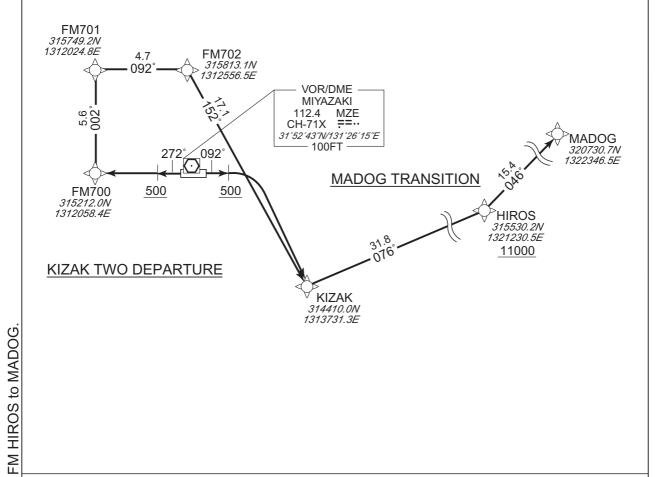
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#### STANDARD DEPARTURE CHART - INSTRUMENT

### RNAV SID and TRANSITION

	KIZAK TWO DEPARTURE  MADOG TRANSITION								
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	RWY27 TGE : 4.0NM to KI	ZAK - KIZAK						
	DME GAP	RWY09 : DER - 4.01 RWY27 : DER - 4.01							
	Inappropriate Navaids	See AD1.1.6.10.3. Inapp	propriate NAVAIDs for RNAV1						

VAR 7° W(2020)



# KIZAK TWO DEPARTURE

RWY09: Climb on HDG092° at or above 500FT, direct to KIZAK.

RWY27: Climb on HDG272° at or above 500FT, direct to FM700, to FM701, to FM702, to KIZAK.

NOTE RWY09: 5.0% climb gradient required up to 500FT. NOTE RWY27: 7.0% climb gradient required up to 900FT.

### MADOG TRANSITION

From KIZAK, to HIROS at or above 11000FT, to MADOG.

Course

# RJFM / MIYAZAKI

# **RNAV SID and TRANSITION**

# KIZAK TWO DEPARTURE

# RWY09

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over		Magnetic Variation	1	Turn Direction		•		Navigation Specification
001	VA	_	_	092 (085.2)	-7.2	_	_	+500	-	_	RNAV1
002	DF	KIZAK	_	_	-7.2	_	R	_	_	_	RNAV1

# RWY27

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	_	_	272 (265.2)	-7.2	_	_	+500	_	_	RNAV1
002	DF	FM700	_	_	-7.2	_	_	_	_	_	RNAV1
003	TF	FM701	_	002 (355.2)	-7.2	5.6	-	_	_	_	RNAV1
004	TF	FM702	_	092 (085.2)	-7.2	4.7	ı	_	_	_	RNAV1
005	TF	KIZAK	_	152 (144.5)	-7.2	17.1	1	_	_	_	RNAV1

# MADOG TRANSITION

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over		Magnetic Variation	1	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	
001	IF	KIZAK	_	_	-7.2	_	_	_	_	_	RNAV1
002	TF	HIROS	_	076 (069.0)	-7.2	31.8	_	+11000	_	_	RNAV1
003	TF	MADOG	_	046 (038.4)	-7.2	15.4	_	_	_	_	RNAV1

RJFM/ MIYAZAKI **RNAV SID** KIRISHIMA ONE DEPARTURE RNAV 1 Note 1) DME/DME/IRU or GNSS required. RWY09 : NHT : 2NM FM DER - 2NM to FM900 RWY27 : NHT : 5NM to FM703 - FM703 XThe aircraft equipped with only DME/DME/IRU Critical DME must be able to update its position without delay at the starting point of take-off roll. RWY09: DER - 2NM FM DER 2) RADAR service required. DME GAP RWY27: DER - 5NM to FM703 Inappropriate Navaids | See AD 1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 VAR 7°W (2020) SASIK 321759.3N 1303115.7E LALAG 9,2 **3**05. **NYUTABARU** 321338.3N ΑD 1304049.6E 29.4 <sup>306</sup> NASAK 315939.9N FM900 1311116.4E 315726.5N 12.7 1312601.1E 287 1000 KIRISHIMA ONE DEPARTURE 500 092° FM703 272° 315144.1N VOR/DME 1311433.9E MIYAZAKI 112.4 MZE CH-71X ₹=•• 31°52′43″N/131°26′15″E 100FT

### KIRISHIMA ONE DEPARTURE

RWY09: Climb on HDG092° at or above 1000FT, turn left direct to FM900, to NASAK,

to LALAG, to SASIK.

RWY27 : Climb on HDG272° at or above 500FT, direct to FM703, to NASAK, to LALAG, to SASIK.

Note RWY09: 5.0% climb gradient required up to 1000FT.

RWY27: 5.0% climb gradient required up to 5000FT.

OBST ALT 152FT located at 0.7NM 276° FM end of RWY27.

RJFM / MIYAZAKI RNAV SID

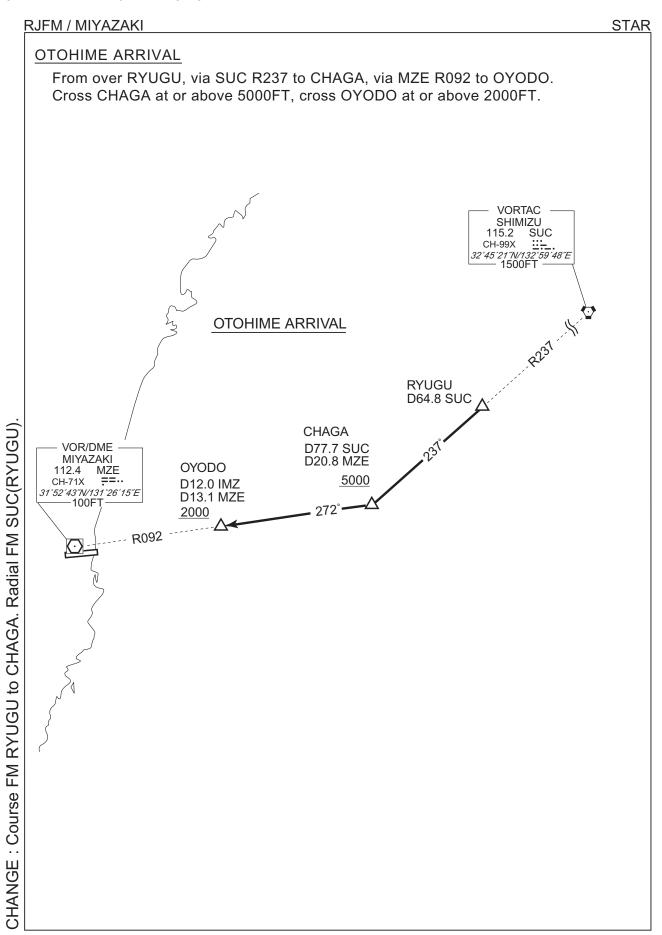
# KIRISHIMA ONE DEPARTURE

### RWY09

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	_	_	092 (085.2)	-7.2	_	_	+1000	_	_	RNAV1
002	DF	FM900	_	_	-7.2	_	L	_	_	_	RNAV1
003	TF	NASAK	_	287 (280.1)	-7.2	12.7	_	_	_	_	RNAV1
004	TF	LALAG	_	306 (298.6)	-7.2	29.4	_	_	_	_	RNAV1
005	TF	SASIK	_	305 (298.3)	-7.2	9.2	_	_	_	_	RNAV1

# RWY27

1111121											
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	_	_	272 (265.2)	-7.2	_	_	+500	_	_	RNAV1
002	DF	FM703	_	_	-7.2	_	_	_	_	_	RNAV1
003	TF	NASAK	_	348 (340.6)	-7.2	8.4	-	_	_	_	RNAV1
004	TF	LALAG	_	306 (298.6)	-7.2	29.4	_	_	_	_	RNAV1
005	TF	SASIK	_	305 (298.3)	-7.2	9.2	_	_	_	_	RNAV1



RJFM / MIYAZAKI **RNAV STAR** RYUGU ARRIVAL RNAV1 Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required. VAR 7°W (2020) TACAN -NYUTABARU 1184 NHT CH-97X ☲:-32°04′49″N/131°27′14″E -300FT RYUGU ARRIVAL **RYUGU** 320245.9N 1230 1320203.9E 4000 2000 7.8 273 **CHAGA OYODO** 315413.6N 315340.5N 1315040.6E VOR/DME 1314134.3E MIYAZAKI 112.4 MZE CH-71X ==·· 31°52′43″N/131°26′15″E 100FT

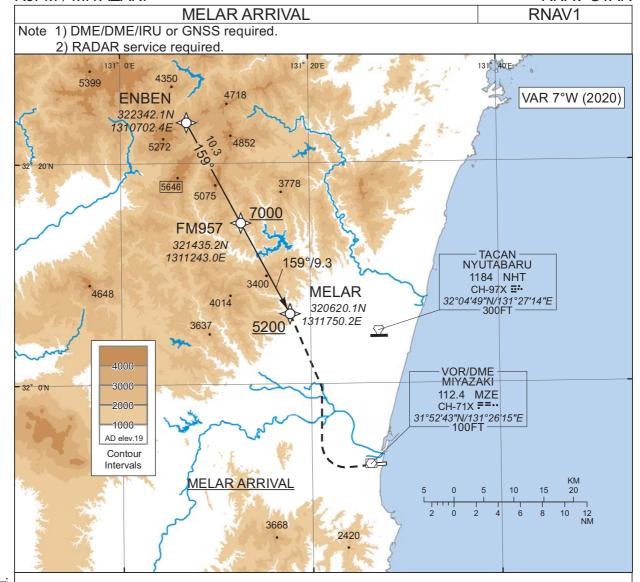
# RYUGU ARRIVAL

From RYUGU, to CHAGA at or above 4000FT, to OYODO at or above 2000FT.

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		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	RYUGU	_	_	-7.2	1	_	_	_	_	RNAV1
002	TF	CHAGA	_	236 (228.6)	-7.2	12.9	_	+4000	_	_	RNAV1
003	TF	OYODO	_	273 (266.0)	-7.2	7.8	_	+2000	_	_	RNAV1

RJFM / MIYAZAKI RNAV STAR



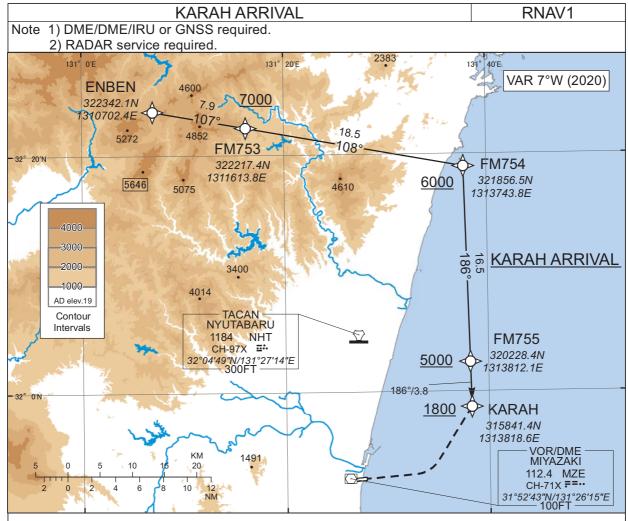
# MELAR ARRIVAL

From ENBEN, to FM957 at or above 7000FT, to MELAR at or above 5200FT.

Critical DME	-
DME GAP	-
Inappropriate	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1
Navaids	Coorts Title: Total mappiophate Tit tit tibe for Title to

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	ENBEN	-	-	-7.2	-	-	-	-	-	RNAV1
002	TF	FM957	-	159 (152.2)	-7.2	10.3	-	+7000	-	-	RNAV1
003	TF	MELAR	-	159 (152.3)	-7.2	9.3	-	+5200	-	-	RNAV1

RJFM / MIYAZAKI RNAV STAR

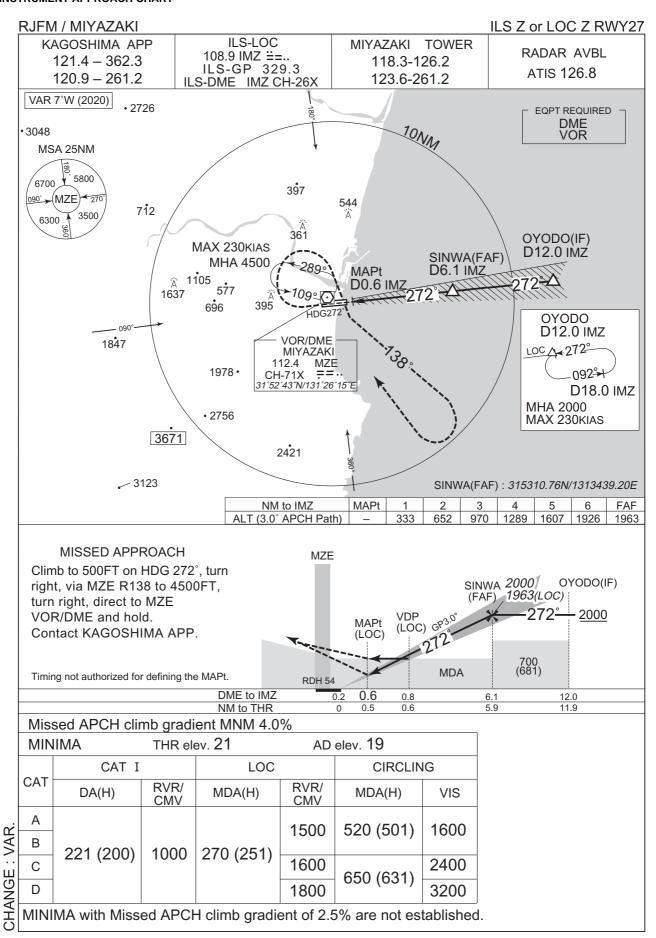


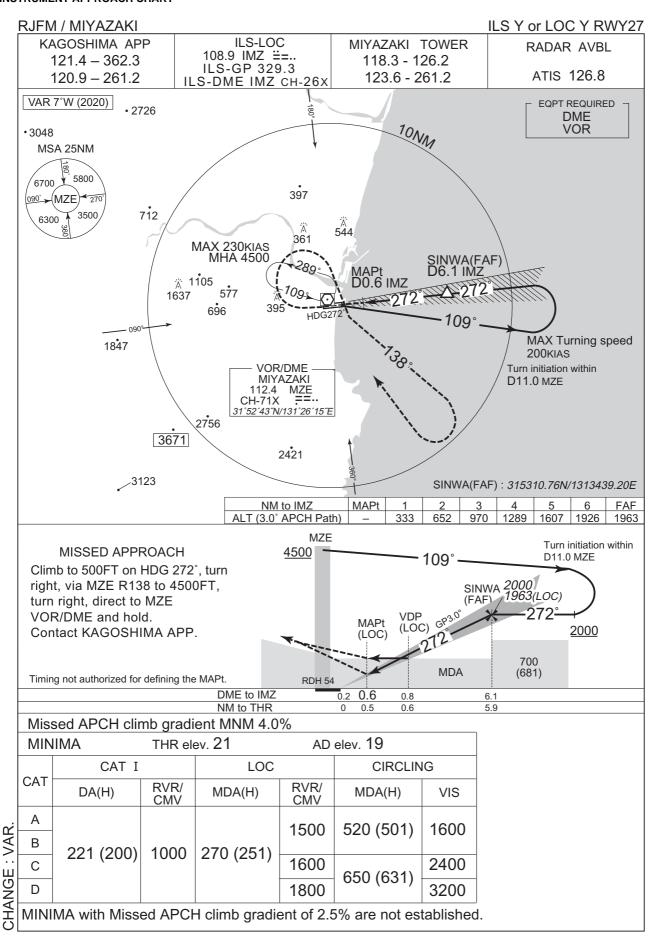
### KARAH ARRIVAL

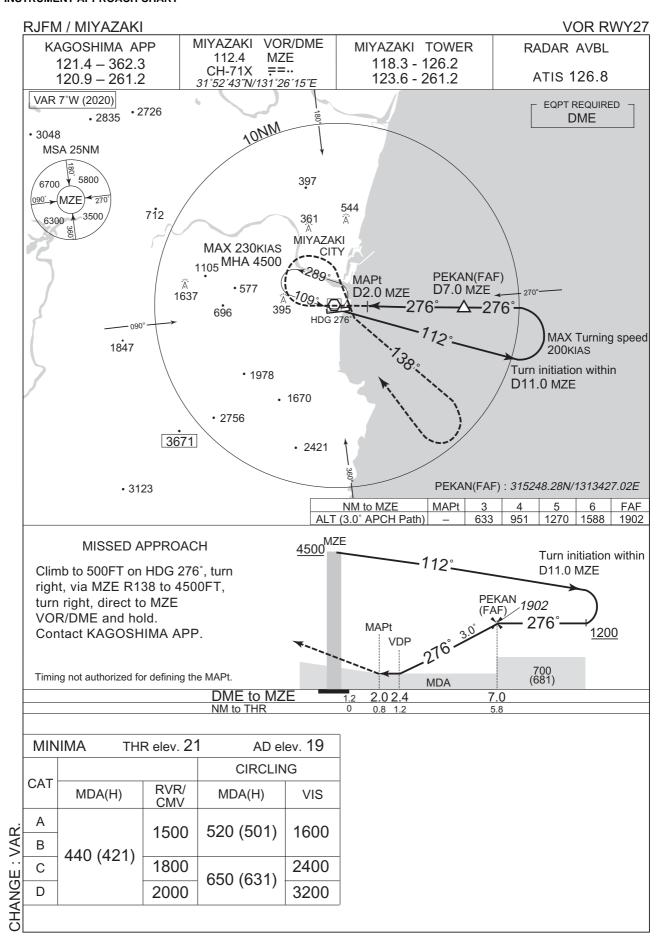
From ENBEN, to FM753 at or above 7000FT, to FM754 at or above 6000FT, to FM755 at or above 5000FT, to KARAH at or above 1800FT.

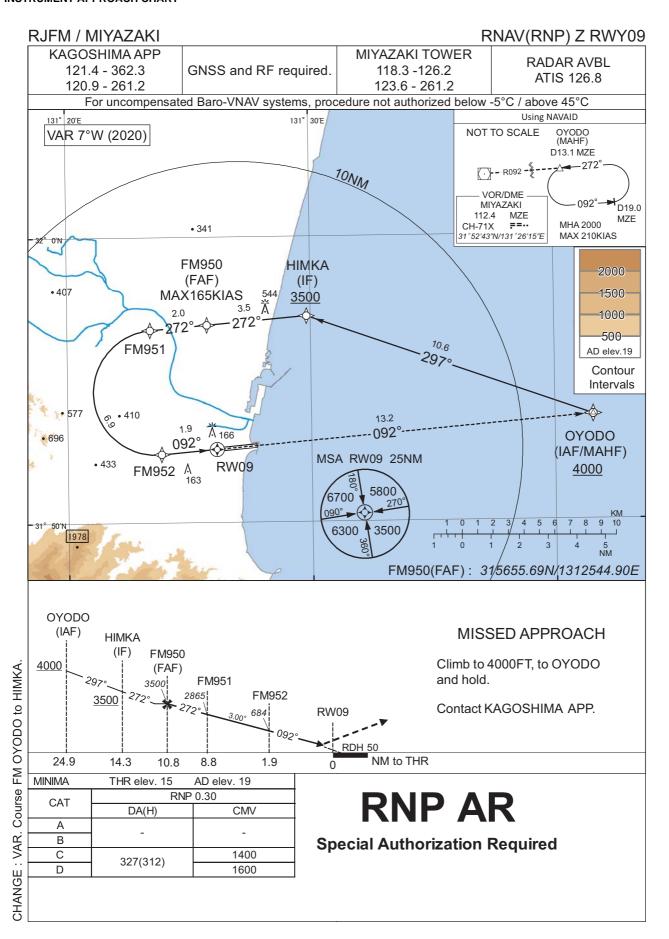
	SUC: 15NM to FM754 - 10NM to FM755				
Critical DME	MZE: 14NM to FM755 - 2NM to FM755				
	NHT: 5NM to FM755 - KARAH				
DME GAP	-				
Inappropriate	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1				
Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDS for RNA				

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	ENBEN	-	-	-7.2	-	-	-	-	-	RNAV1
002	TF	FM753	-	107 (100.3)	-7.2	7.9	-	+7000	-	-	RNAV1
003	TF	FM754	-	108 (100.3)	-7.2	18.5	-	+6000	-	-	RNAV1
004	TF	FM755	-	186 (178.6)	-7.2	16.5	-	+5000	-	-	RNAV1
005	TF	KARAH	-	186 (178.6)	-7.2	3.8	-	+1800	1	-	RNAV1









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# RNAV(RNP) Z RWY09

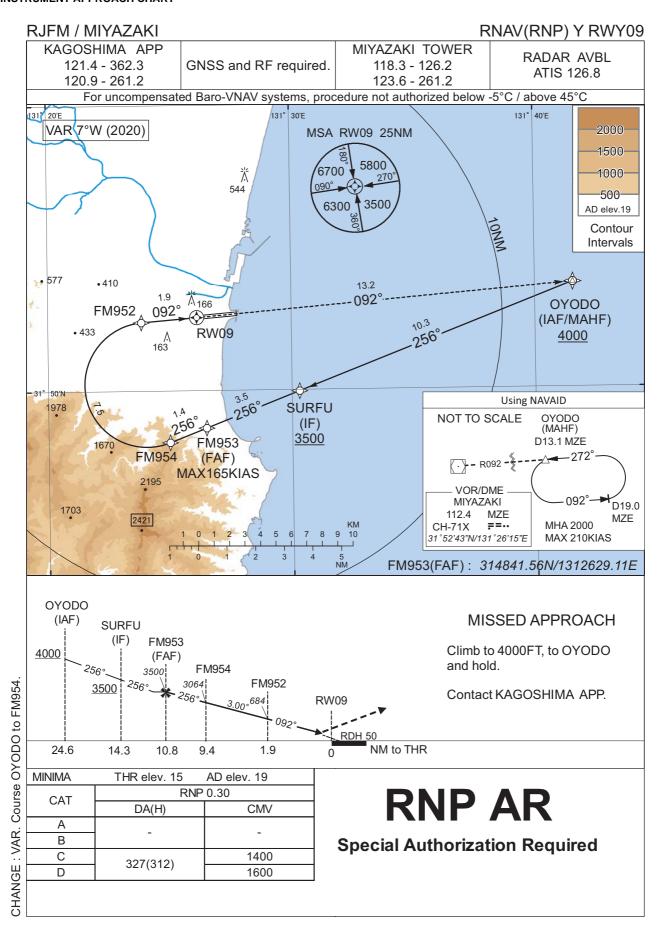
# RNAV(RNP) Z RWY09

# **Coding Table**

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/ RDH (°/FT)	RNP Value
001	IF	OYODO	1	-	-7.2	-	-	+4000	-	-	-
002	TF	HIMKA	-	297 (289.7)	-7.2	10.6	-	+3500	-	-	1.0
003	TF	FM950	1	272 (265.2)	-7.2	3.5	-	3500	-165	-	1.0
004	TF	FM951	1	272 (265.2)	-7.2	2.0	-	2865	-	-3.00	0.3
005	RF Center: FMRF1 r=2.18NM	FM952	ı	1	-7.2	6.9	L	684	1	-3.00	0.3
006	TF	RW09	Υ	092 (085.1)	-7.2	1.9	-	65	-	-3.00/50	0.3
007	TF	OYODO	-	092 (085.1)	-7.2	13.2	-	4000	-	-	1.0

# **Waypoint Coordinates**

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
HIMKA	315713.28N / 1312950.79E	FMRF1	315435.02N / 1312337.63E
FM950	315655.69N / 1312544.90E		
FM951	315645.60N / 1312324.68E		
FM952	315224.44N / 1312350.57E		
RW09	315234.26N / 1312607.02E		
OYODO	315340.52N / 1314134.32E		



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# RNAV(RNP) Y RWY09

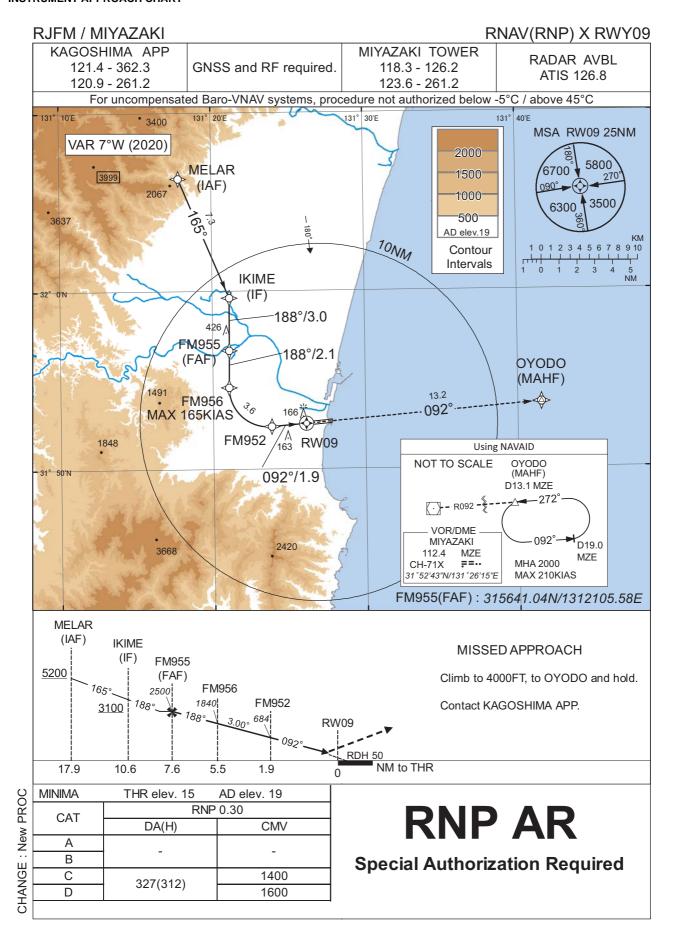
# RNAV(RNP) Y RWY09

# **Coding Table**

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/ RDH (°/FT)	RNP Value
001	IF	OYODO	,	-	-7.2	-	-	+4000	-	-	-
002	TF	SURFU	,	256 (248.8)	-7.2	10.3	-	+3500	-	-	1.0
003	TF	FM953	-	256 (248.7)	-7.2	3.5	ı	3500	-165	ı	1.0
004	TF	FM954	,	256 (248.7)	-7.2	1.4	-	3064	-	-3.00	0.3
005	RF Center: FMRF2 r=2.18NM	FM952	ı	ı	-7.2	7.5	R	684	1	-3.00	0.3
006	TF	RW09	Υ	092 (085.1)	-7.2	1.9	-	65	-	-3.00/50	0.3
007	TF	OYODO	,	092 (085.1)	-7.2	13.2	-	4000	-	-	1.0

# **Waypoint Coordinates**

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
SURFU	314957.66N / 1313018.83E	FMRF2	315013.85N / 1312403.51E
FM953	314841.56N / 1312629.11E		
FM954	314811.70N / 1312459.11E		
FM952	315224.44N / 1312350.57E		
RW09	315234.26N / 1312607.02E		
OYODO	315340.52N / 1314134.32E		



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# RNAV(RNP) X RWY09

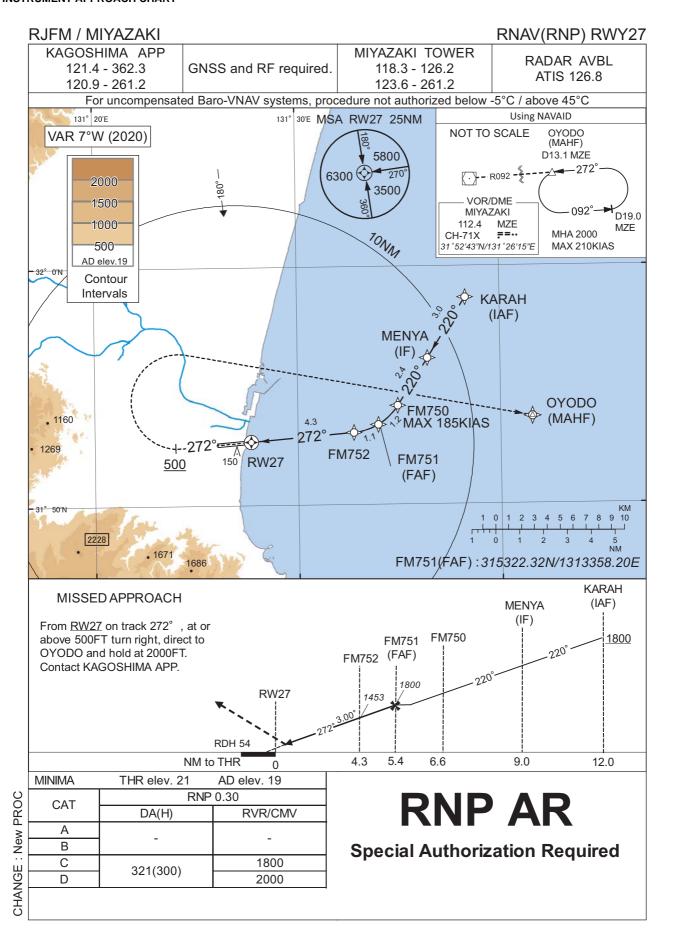
# RNAV(RNP) X RWY09

# Coding Table

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/ RDH (°/FT)	RNP Value
001	IF	MELAR	-	-	-7.2	-	-	+5200	-	-	-
002	TF	IKIME	-	165 (157.4)	-7.2	7.3	-	+3100	-	-	0.3
003	TF	FM955	-	188 (180.6)	-7.2	3.0	-	2500	-	-	0.3
004	TF	FM956	-	188 (180.6)	-7.2	2.1	-	1840	-165	-3.00	0.3
005	RF Center: FMRF1 r=2.18NM	FM952	ı	1	-7.2	3.6	L	684	1	-3.00	0.3
006	TF	RW09	Y	092 (085.1)	-7.2	1.9	-	65	1	-3.00/50	0.3
007	TF	OYODO	-	092 (085.1)	-7.2	13.2	-	4000	-	-	1.0

# Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
MELAR	320620.09N / 1311750.24E	FMRF1	315435.02N / 1312337.63E
IKIME	315938.25N / 1312107.83E		
FM955	315641.04N / 1312105.58E		
FM956	315436.46N / 1312104.01E		
FM952	315224.44N / 1312350.57E	]	
RW09	315234.26N / 1312607.02E		
OYODO	315340.52N / 1314134.32E	]	



# RJFM / MIYAZAKI

# RNAV(RNP) RWY27

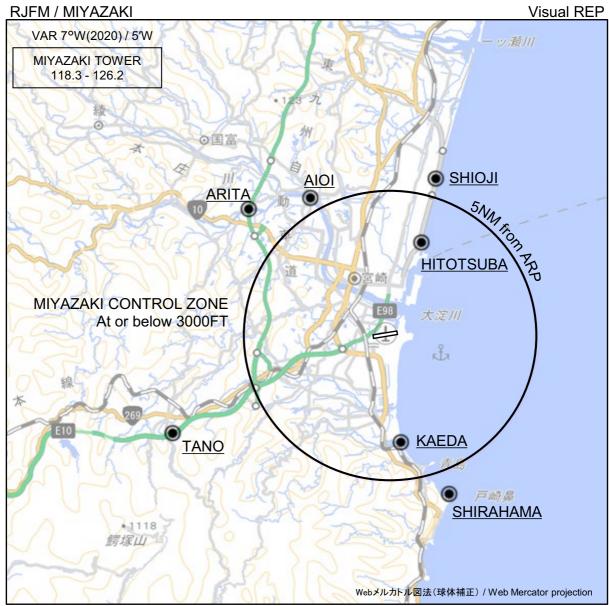
# RNAV(RNP) RWY27

# Coding Table

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/ RDH (°/FT)	RNP Value
001	IF	KARAH	-	ı	-7.2	ı	ı	+1800	ı	-	-
002	TF	MENYA	,	220 (212.3)	-7.2	3.0	-	-	,		0.3
003	TF	FM750	1	220 (212.3)	-7.2	2.4	-	-	-185	-	0.3
004	RF Center: FMRF3 r=2.43NM	FM751	1	ı	-7.2	1.2	R	1800	1	-	0.3
005	RF Center: FMRF3 r=2.43NM	FM752	-	1	-7.2	1.1	R	1453	1	-3.00	0.3
006	TF	RW27	Υ	272 (265.2)	-7.2	4.3	-	75	,	-3.00/54	0.3
007	FA	-	-	272 (265.2)	-7.2	-	-	+500	-	-	1.0
008	DF	OYODO	-	1	-7.2	ı	R	2000	ı	-	1.0

# **Waypoint Coordinates**

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
KARAH	315841.41N / 1313818.57E	FMRF3	315528.33N / 1313231.52E
MENYA	315609.28N / 1313625.03E		
FM750	315409.97N / 1313456.09E		
FM751	315322.32N / 1313358.20E		
FM752	315302.73N / 1313245.72E		
RW27	315241.06N / 1312741.80E		
OYODO	315340.52N / 1314134.32E		



※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

ARP.	Call sign	BRG / DIST from ARP	Remarks
from ,	有田 Arita	312°T / 6.5NM	東九州自動車道大淀川橋 Bridge
BRG/DIST	相生 Aioi	330°T / 5.5NM	宮崎西環状線相生橋 Bridge
	塩路 Shioji	016°T / 5.6NM	ーツ葉有料道路ーツ葉PA Parking Area
Map updated.	ーツ葉 Hitotsuba	018°T / 3.4NM	サンビーチ ーツ葉 Beach
Мар и	加江田 Kaeda	175°T / 3.7NM	加江田川河口 River mouth
	白浜 Shirahama	160°T / 5.8NM	戸崎鼻先端のホテル Hotel
CHANGE	田野 Tano	246°T / 8.2NM	宮崎自動車道田野IC Interchange



