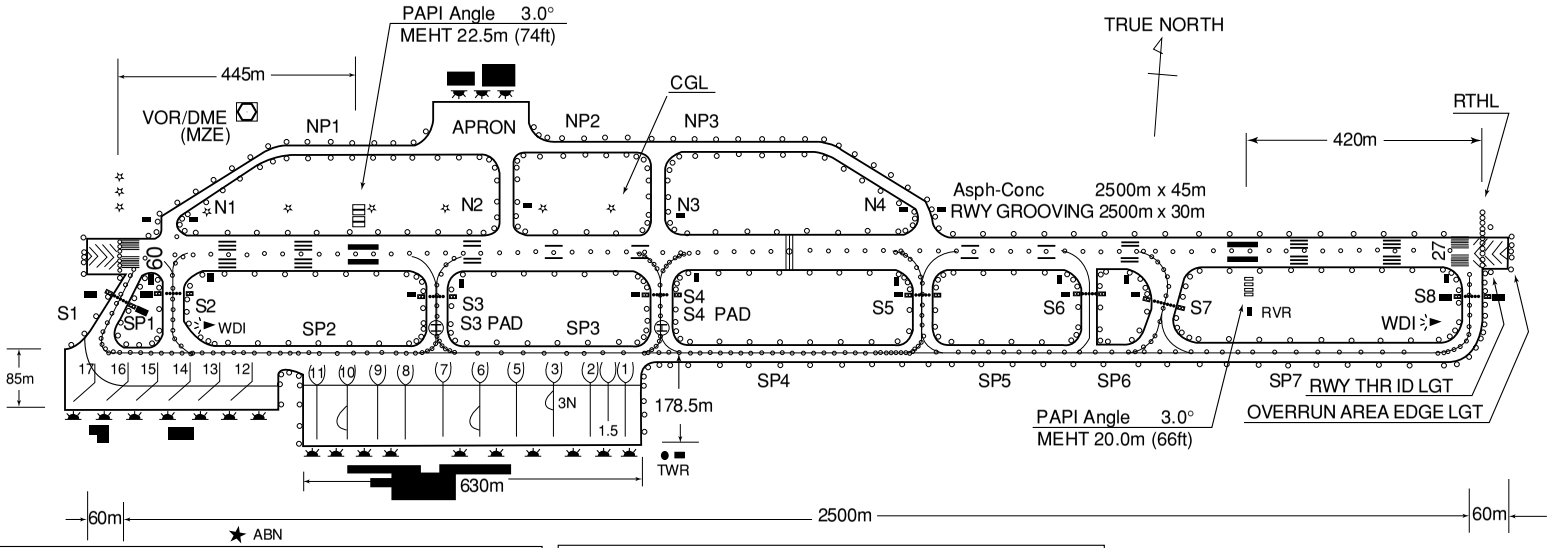
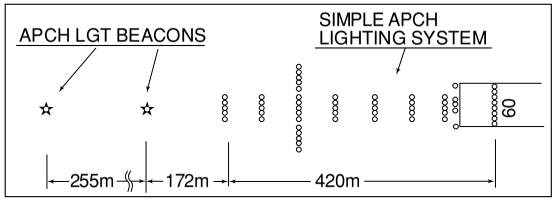
MIYAZAKI AP



REMARKS :

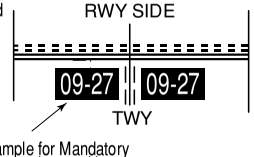
STRENGTH OF RWY			PCN 114/F/D/X/T
WIDTH & STRENGTH OF TWY			
	S1	26.5m	PCN 97/F/C/X/T
	S2, S8	28.5m	PCN 72/F/A/X/T
	S3, S4, S5	34m	PCN 69/F/B/X/T
	S7	30m	PCN 59/F/A/X/T
	S6	23m	PCN 74/F/C/X/T
	SP1	23m	PCN 109/F/C/X/T
	SP2, SP3	23m	PCN 74/R/C/X/T
	SP4, SP5, SP6	23m	PCN 104/F/C/X/T
	SP7	23m	PCN 72/F/A/X/T
	N1, N2, N3, N4	18m	5,700kg / 0.48MPa
	NP1, NP2, NP3	18m	5,700kg / 0.48MPa
STRENGTH OF APRON	SPOT 1 THRU 10		PCN 74/R/B/X/T
	SPOT 11		PCN 74/R/C/X/T
	SPOT 12 THRU 17		PCN 58/F/C/X/T
HELI-PAD MARKINGS	LOCATED ON TWY S3 & S4		



RWY-HOLDING POSITION MARKINGS

RWY-holding position markings are located on TWY N1 through N4
: their location are 75m off the RWY centerline of RWY09/27.
Mandatory instruction markings are located on TWY N1 through N4.

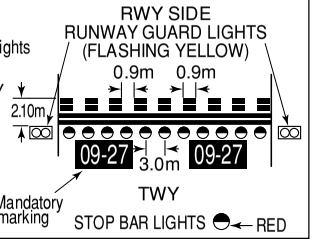
COMMON WAYS OF ITS MARKING



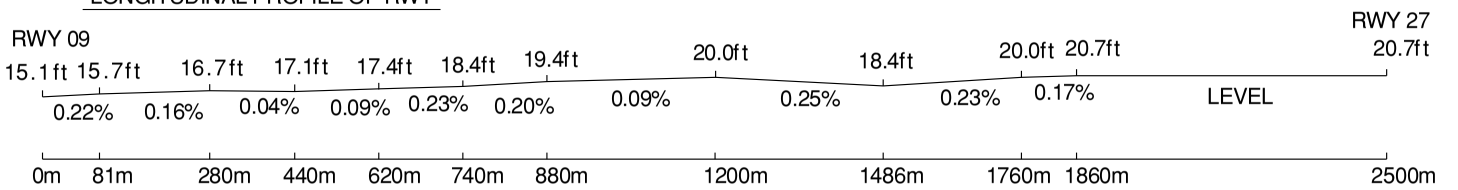
RWY-HOLDING POSITION MARKINGS and STOP BAR LIGHTS

RWY-holding position marking and Stop bar lights and Runway guard lights are located on TWY S1 through S8
: their location are 75m off the RWY centerline of RWY09/27.
Mandatory instruction markings are located on TWY S1 through S8.

COMMON WAYS OF ITS MARKING AND LIGHTS



LONGITUDINAL PROFILE OF RWY



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STANDARD DEPARTURE CHART - INSTRUMENT

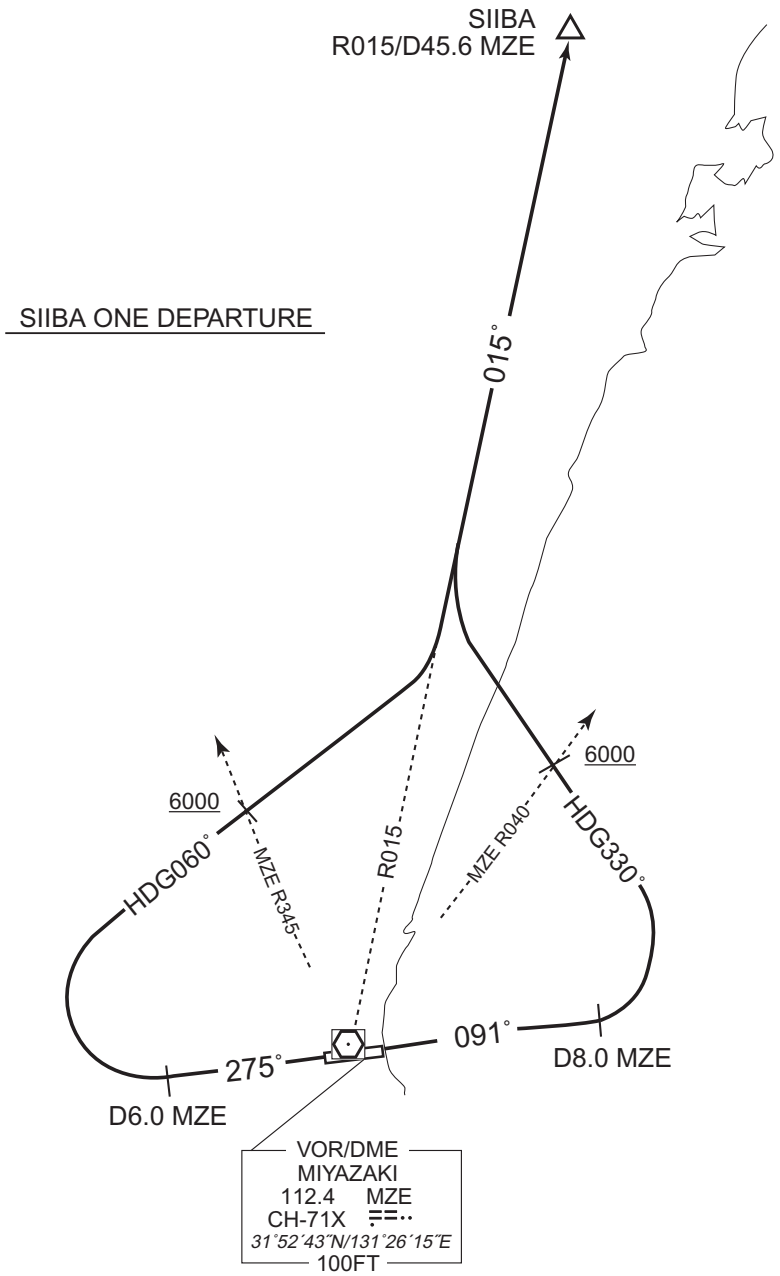
RJFM / MIYAZAKI SID

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.



STANDARD DEPARTURE CHART - INSTRUMENT

RJFM / MIYAZAKI SID

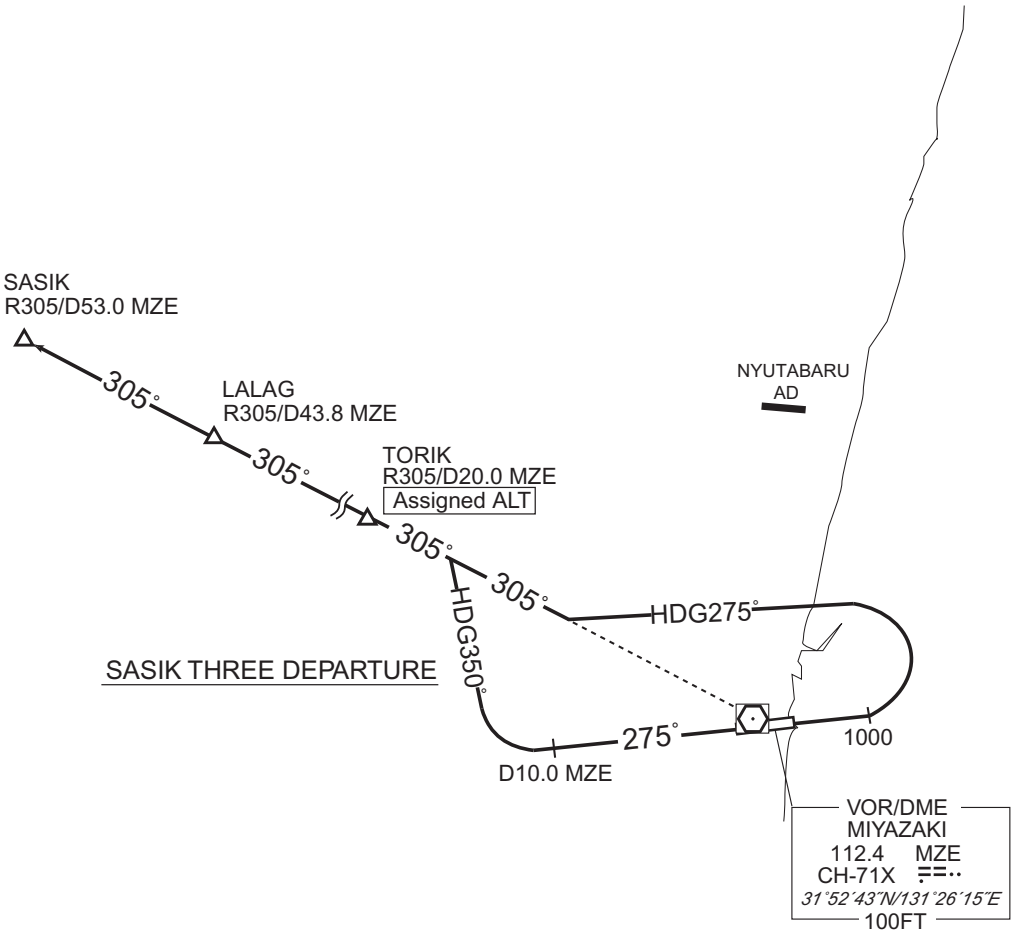
CHANGE : PROC. OBST.

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.



STANDARD DEPARTURE CHART - INSTRUMENT

RJFM / MIYAZAKI SID

CHANGE : OBST(MIYAZAKI REVERSAL ONE DEPARTURE).

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.

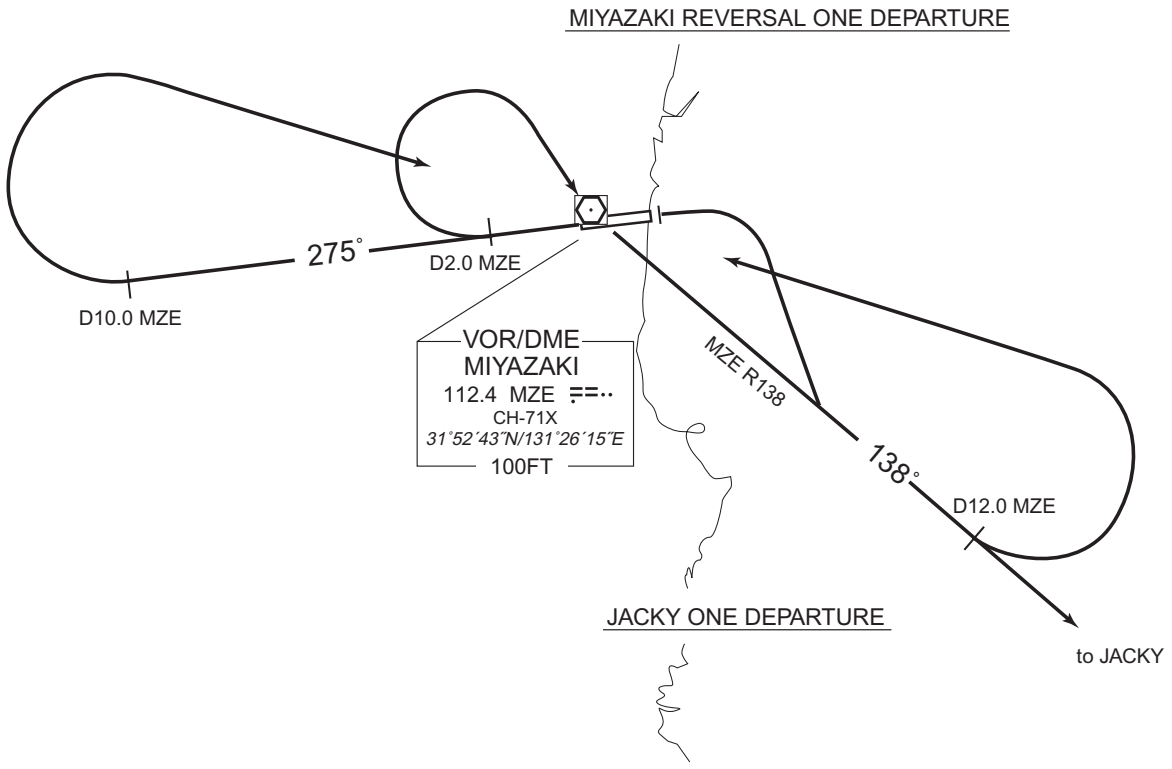
Note RWY27 : 5.0% climb gradient required up to 5000FT.
OBST ALT 152FT located at 0.7NM 276˚ FM end of RWY27.

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.

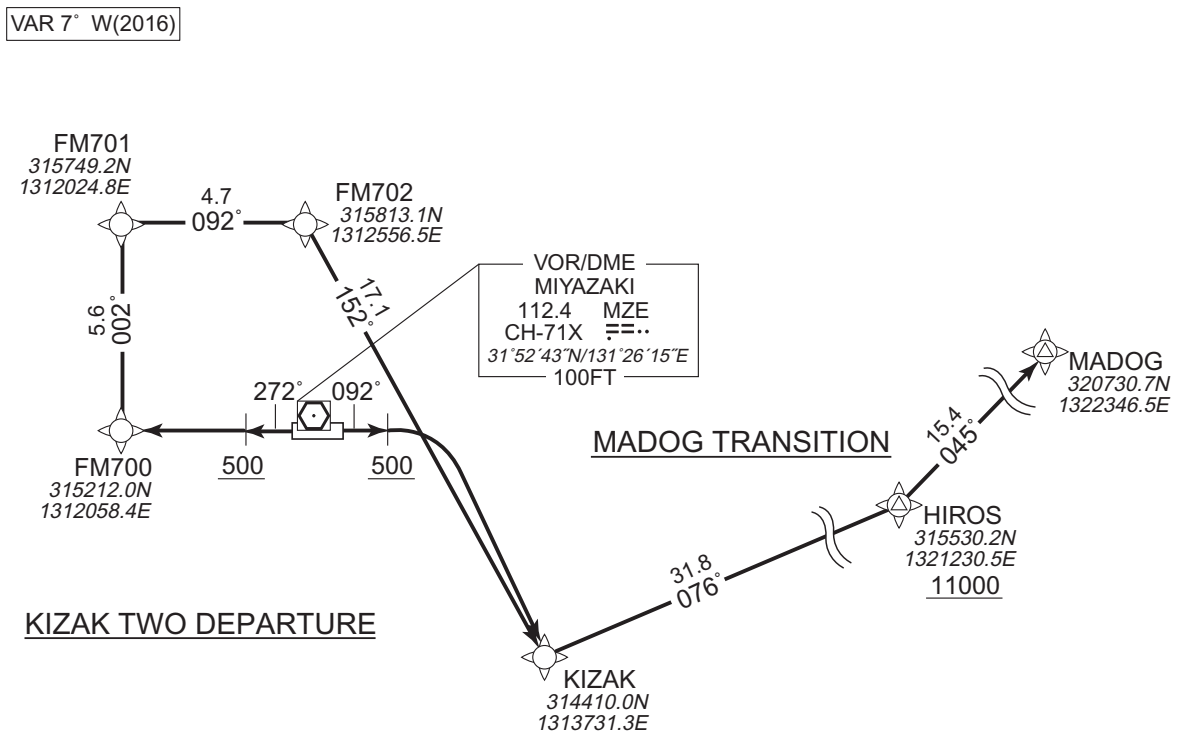
Note RWY27 : 5.0% climb gradient required up to 500FT.
OBST ALT 395FT located at 3.1NM 281˚ FM end of RWY27.



STANDARD DEPARTURE CHART - INSTRUMENT

RJFM / MIYAZAKI — RNAV SID and TRANSITION

KIZAK TWO DEPARTURE MADOG TRANSITION		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	RWY27 TGE : 4.0NM to KIZAK - KIZAK
	DME GAP	RWY09 : DER - 4.0NM to KIZAK RWY27 : DER - 4.0NM to KIZAK
	Inappropriate Navaids	See AD1.6.10.3. Inappropriate NAVAIDs for RNAV1



CHANGE : Critical DME

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.

STANDARD DEPARTURE CHART - INSTRUMENT

RJFM / MIYAZAKI RNAV SID and TRANSITION

KIZAK TWO DEPARTURE

RWY09

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	–	–	092 (085.2)	-6.8	–	–	+500	–	–	RNAV1
002	DF	KIZAK	–	–	-6.8	–	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)	-6.8	–	–	+500	–	–	RNAV1
002	DF	FM700	–	–	-6.8	–	–	–	–	–	RNAV1
003	TF	FM701	–	002 (355.2)	-6.8	5.6	–	–	–	–	RNAV1
004	TF	FM702	–	092 (085.2)	-6.8	4.7	–	–	–	–	RNAV1
005	TF	KIZAK	–	152 (144.5)	-6.8	17.1	–	–	–	–	RNAV1

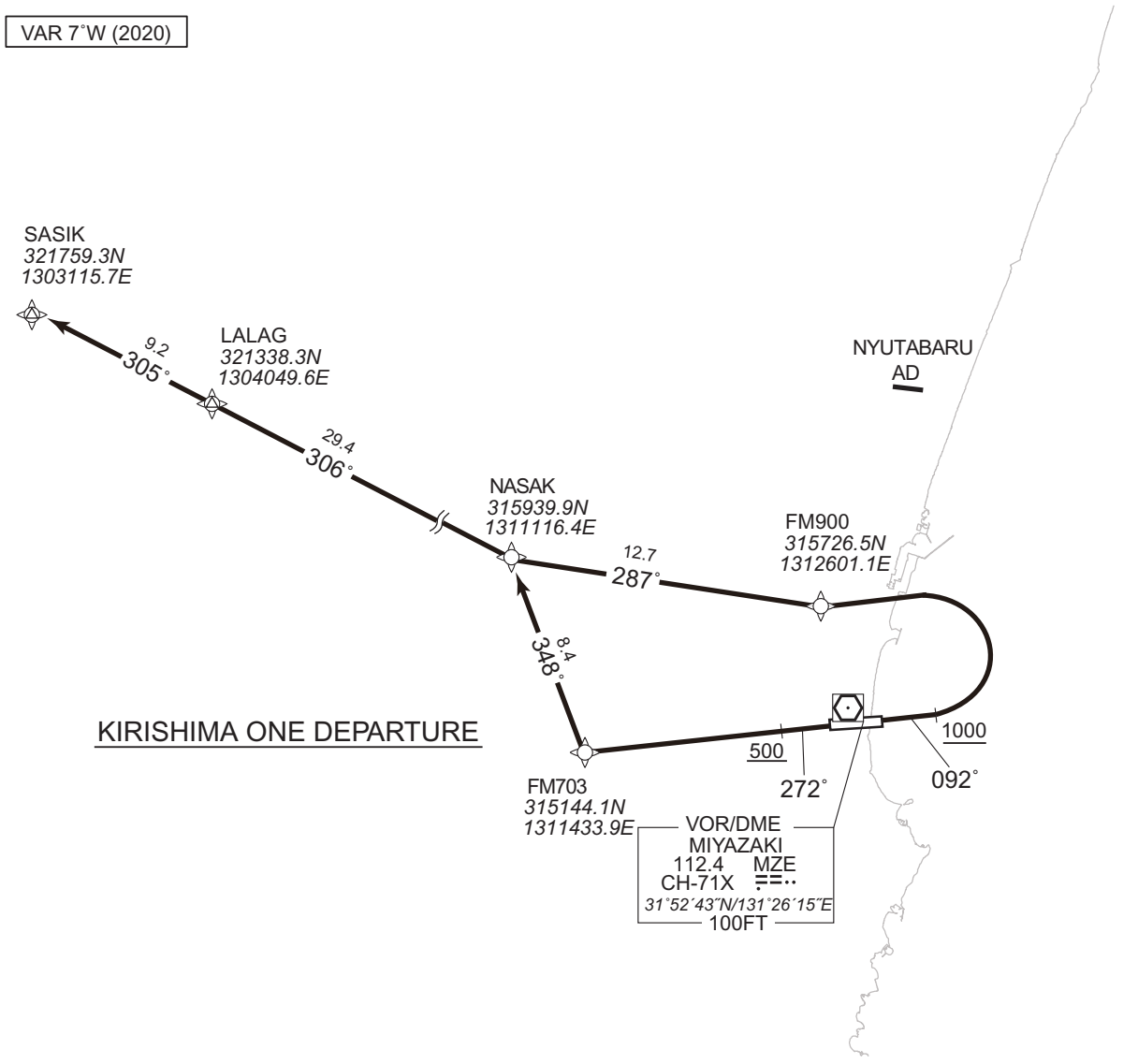
MADOG TRANSITION

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	KIZAK	–	–	-6.8	–	–	–	–	–	RNAV1
002	TF	HIROS	–	076 (069.0)	-6.8	31.8	–	+11000	–	–	RNAV1
003	TF	MADOG	–	045 (038.4)	-6.8	15.4	–	–	–	–	RNAV1

STANDARD DEPARTURE CHART - INSTRUMENT

RJFM/ MIYAZAKI — RNAV SID

KIRISHIMA ONE DEPARTURE		RNAV 1
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	RWY09 : NHT : 2NM FM DER ─ 2NM to FM900 RWY27 : NHT : 5NM to FM703 ─ FM703
	DME GAP	RWY09 : DER ─ 2NM FM DER RWY27 : DER ─ 5NM to FM703
	Inappropriate Navaids	See AD 1.1.6.10.3. Inappropriate NAVAIDs for RNAV1



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.

CHANGE : New PROC.

STANDARD DEPARTURE CHART - INSTRUMENT

RJFM / MIYAZAKI RNAV SID

KIRISHIMA ONE DEPARTURE

RWY09

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	–	–	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

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	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

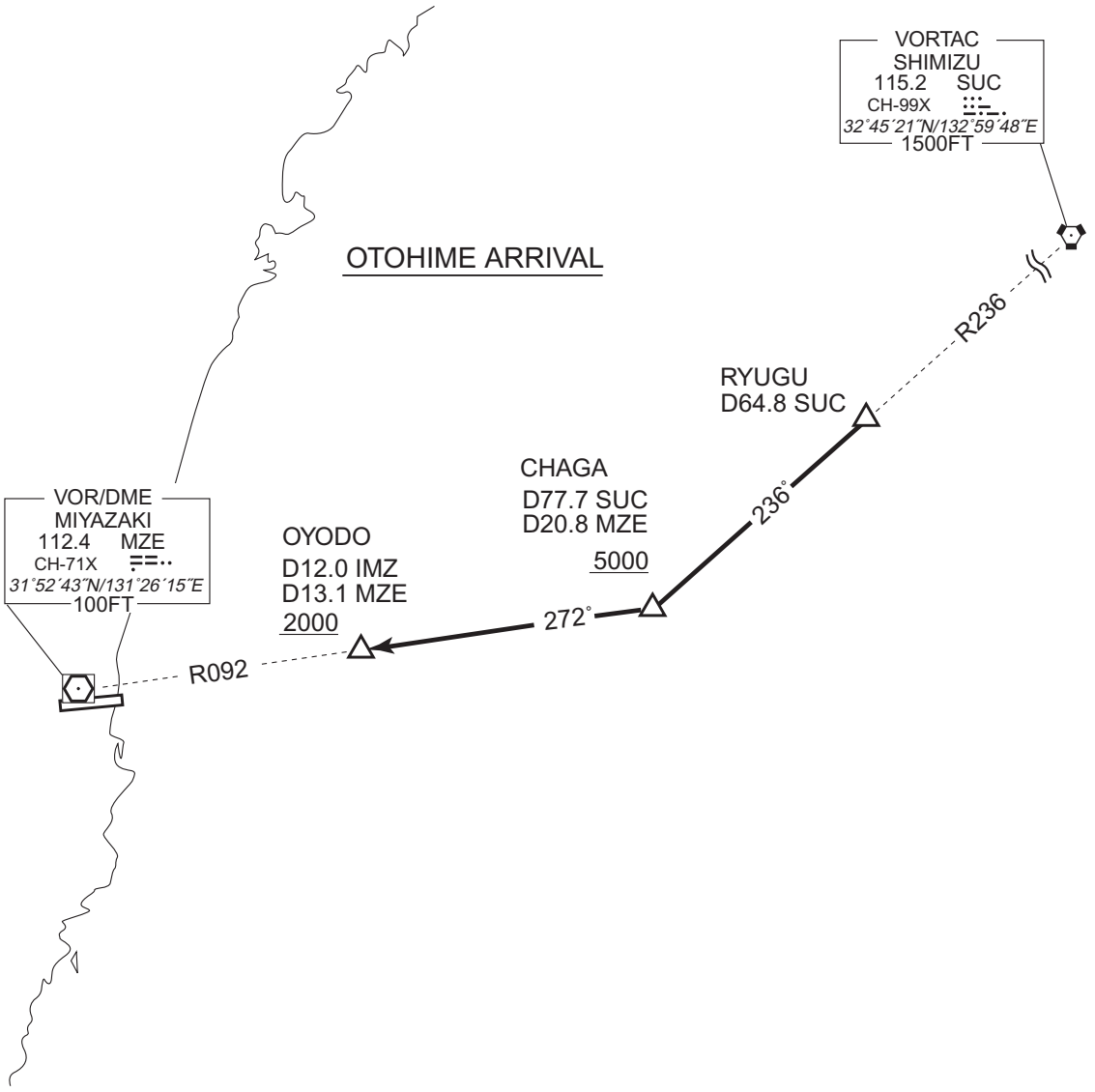
CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJFM / MIYAZAKI STAR

OTOHIME ARRIVAL

From over RYUGU, via SUC R236 to CHAGA, via MZE R092 to OYODO.
Cross CHAGA at or above 5000FT, cross OYODO at or above 2000FT.



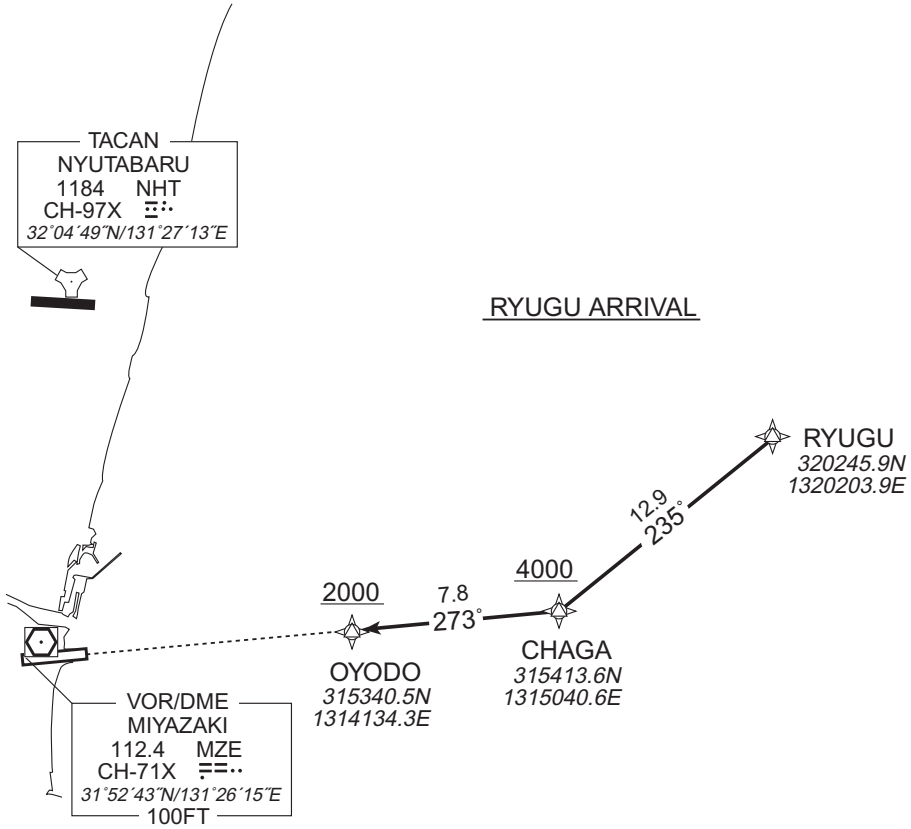
STANDARD ARRIVAL CHART - INSTRUMENT

RJFM / MIYAZAKI RNAV STAR

RYUGU ARRIVAL	RNAV1

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

VAR 7˚W (2016)



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

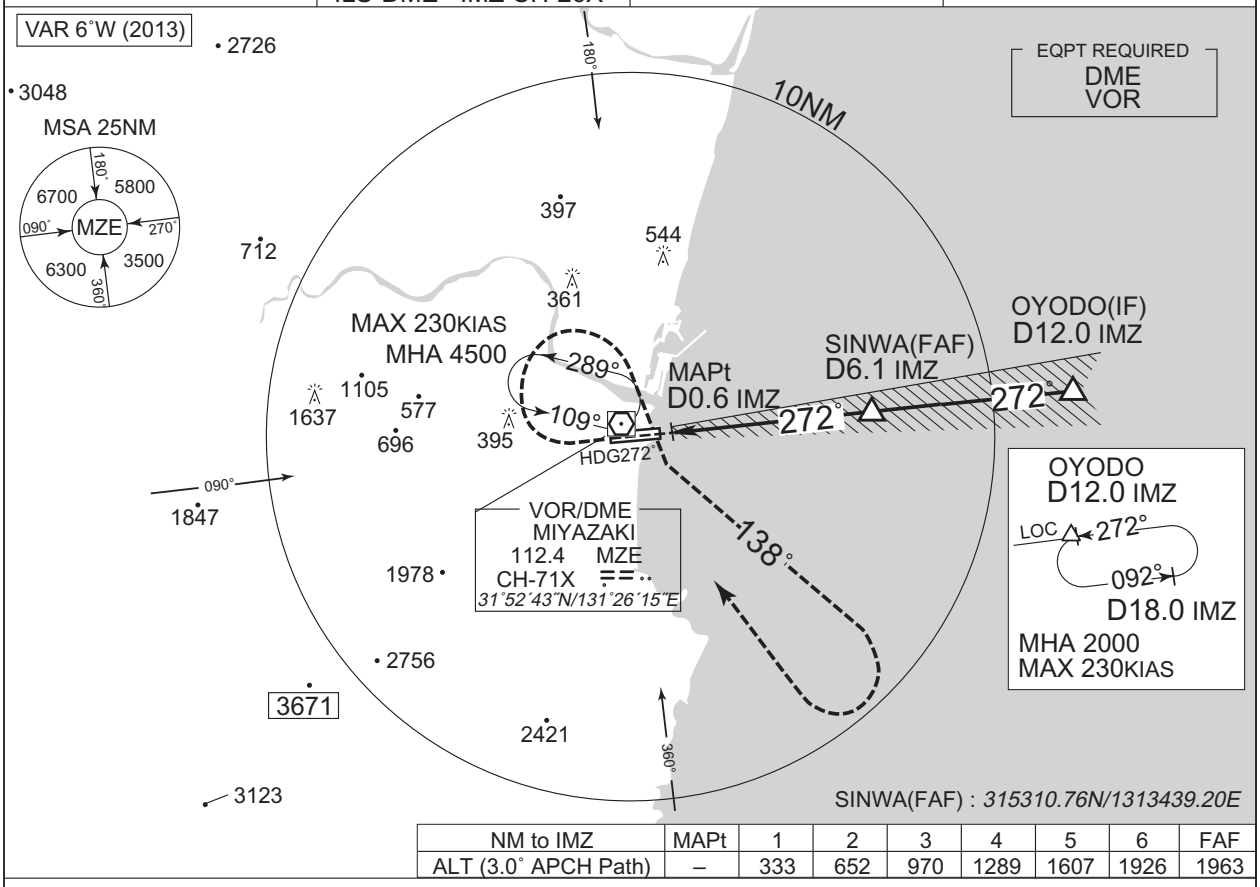
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	RYUGU	–	–	-6.8	–	–	–	–	–	RNAV1
002	TF	CHAGA	–	235 (228.6)	-6.8	12.9	–	+4000	–	–	RNAV1
003	TF	OYODO	–	273 (266.0)	-6.8	7.8	–	+2000	–	–	RNAV1

CHANGE : Critical DME

INSTRUMENT APPROACH CHART

RJFM / MIYAZAKI ILS Z or LOC Z RWY27

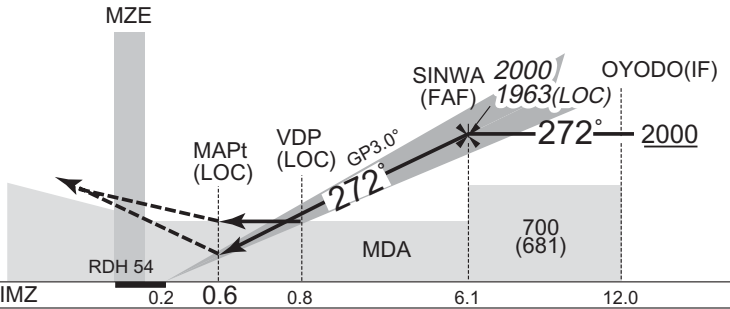
KAGOSHIMA APP	ILS-LOC	MIYAZAKI TOWER	RADAR AVBL
121.4 – 362.3 120.9 – 261.2	108.9 IMZ ILS-GP 329.3 ILS-DME IMZ CH-26X	118.3-126.2 123.6-261.2	ATIS 126.8



NM to IMZ	MAPt	1	2	3	4	5	6	FAF
ALT (3.0° APCH Path)	–	333	652	970	1289	1607	1926	1963

MISSED APPROACH
Climb to 500FT on HDG 272°, turn right, via MZE R138 to 4500FT, turn right, direct to MZE VOR/DME and hold.
Contact KAGOSHIMA APP.

Timing not authorized for defining the MAPt.



DME to IMZ	0.2	0.6	0.8	6.1	12.0
NM to THR	0	0.5	0.6	5.9	11.9

Missed APCH climb gradient MNM 4.0%

MINIMA THR elev. 21 AD elev. 19

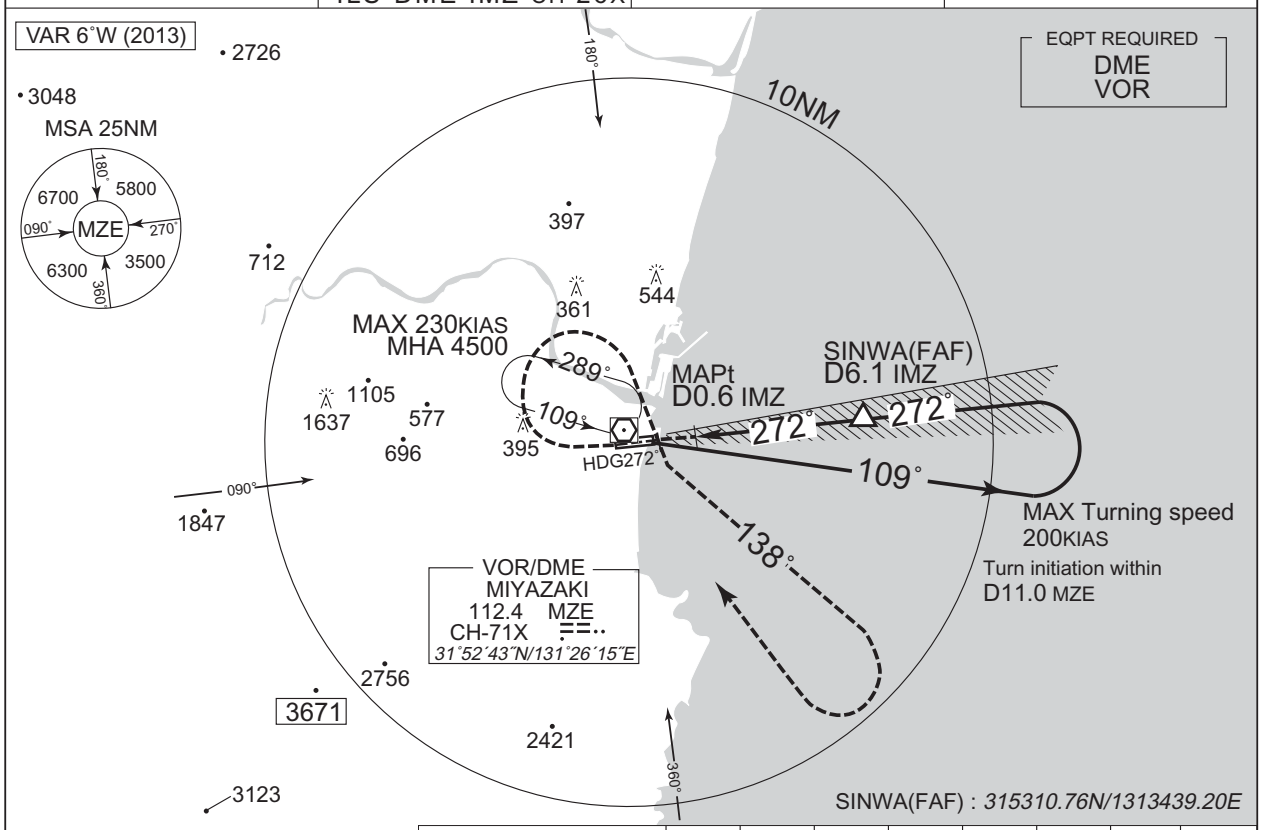
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	221 (200)	1000	270 (251)	1500	520 (501)	1600
B						
C				1600	650 (631)	2400
D				1800		3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.

INSTRUMENT APPROACH CHART

RJFM / MIYAZAKI — ILS Y or LOC Y RWY27

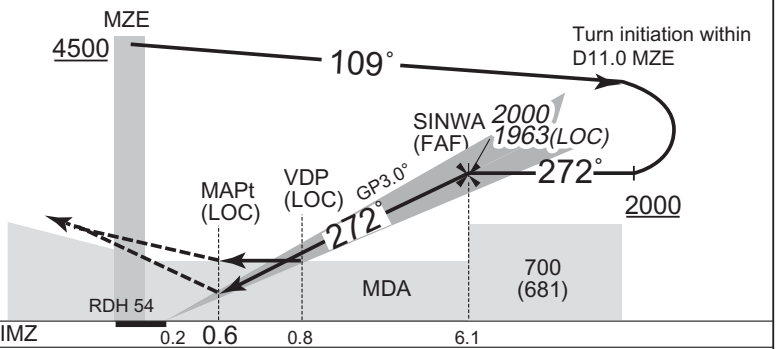
KAGOSHIMA APP	ILS-LOC	MIYAZAKI TOWER	RADAR AVBL
121.4 – 362.3 120.9 – 261.2	108.9 IMZ ILS-GP 329.3 ILS-DME IMZ CH-26X	118.3 - 126.2 123.6 - 261.2	ATIS 126.8



NM to IMZ	MAPt	1	2	3	4	5	6	FAF
ALT (3.0° APCH Path)	–	333	652	970	1289	1607	1926	1963

MISSED APPROACH
Climb to 500FT on HDG 272°, turn right, via MZE R138 to 4500FT, turn right, direct to MZE VOR/DME and hold.
Contact KAGOSHIMA APP.

Timing not authorized for defining the MAPt.



DME to IMZ	0.2	0.6	0.8	6.1
NM to THR	0	0.5	0.6	5.9

Missed APCH climb gradient MNM 4.0%

MINIMA THR elev. 21 AD elev. 19

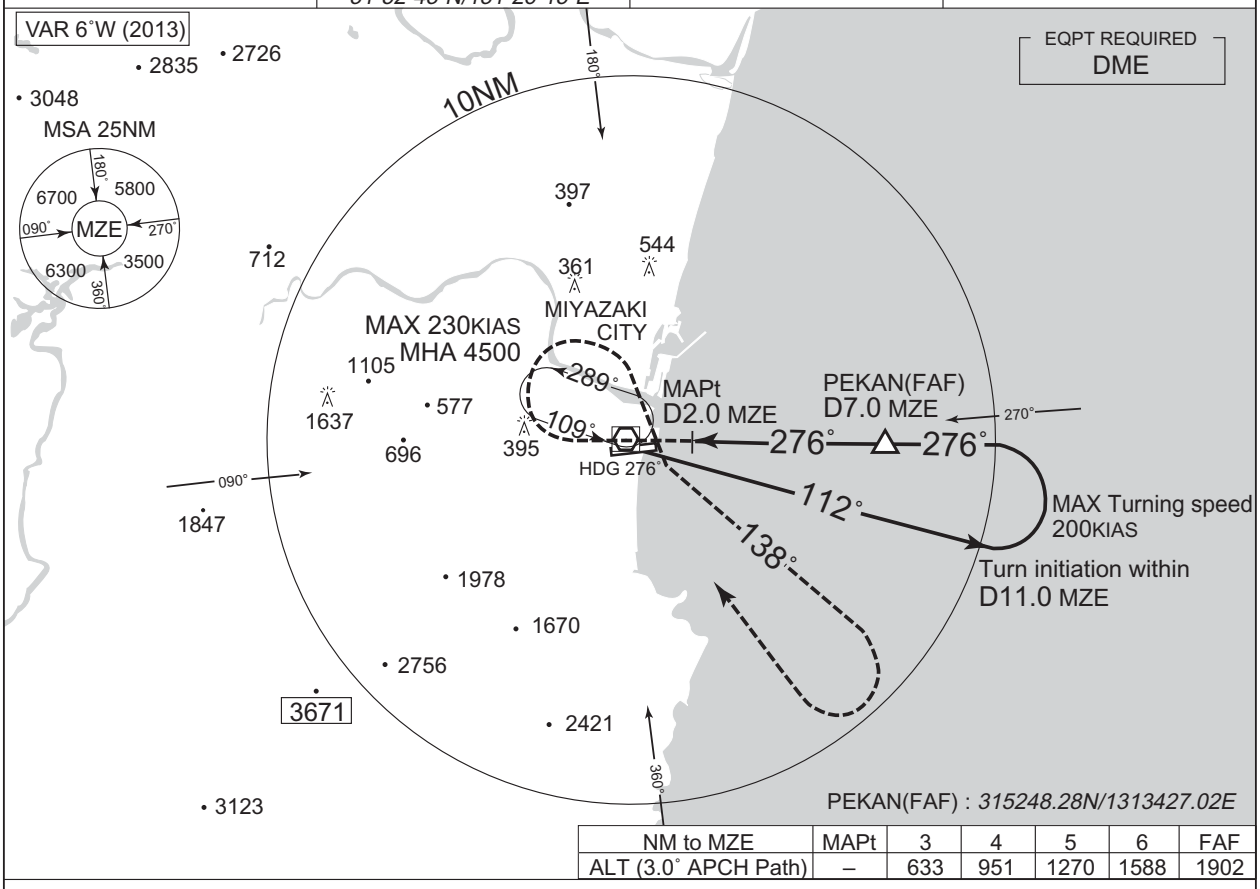
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	221 (200)	1000	270 (251)	1500	520 (501)	1600
B						
C				1600	650 (631)	2400
D				1800		3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.

INSTRUMENT APPROACH CHART

RJFM / MIYAZAKI VOR RWY27

KAGOSHIMA APP	MIYAZAKI VOR/DME	MIYAZAKI TOWER	RADAR AVBL
121.4 – 362.3 120.9 – 261.2	112.4 MZE CH-71X *31°52′43″N/131°26′15″E*	118.3 - 126.2 123.6 - 261.2	ATIS 126.8

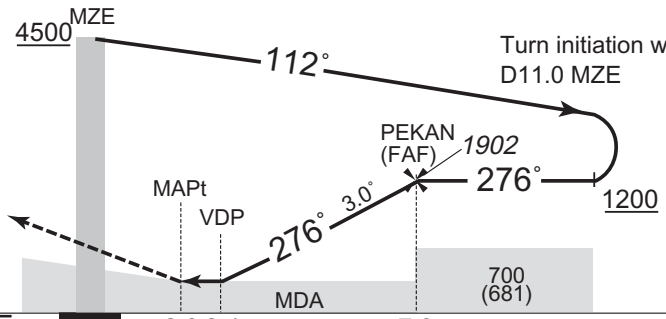


NM to MZE	MAPt	3	4	5	6	FAF
ALT (3.0° APCH Path)	–	633	951	1270	1588	1902

MISSED APPROACH

Climb to 500FT on HDG 276°, turn right, via MZE R138 to 4500FT, turn right, direct to MZE VOR/DME and hold.
Contact KAGOSHIMA APP.

Timing not authorized for defining the MAPt.



DME to MZE	1.2	2.0	2.4	7.0
NM to THR	0	0.8	1.2	5.8

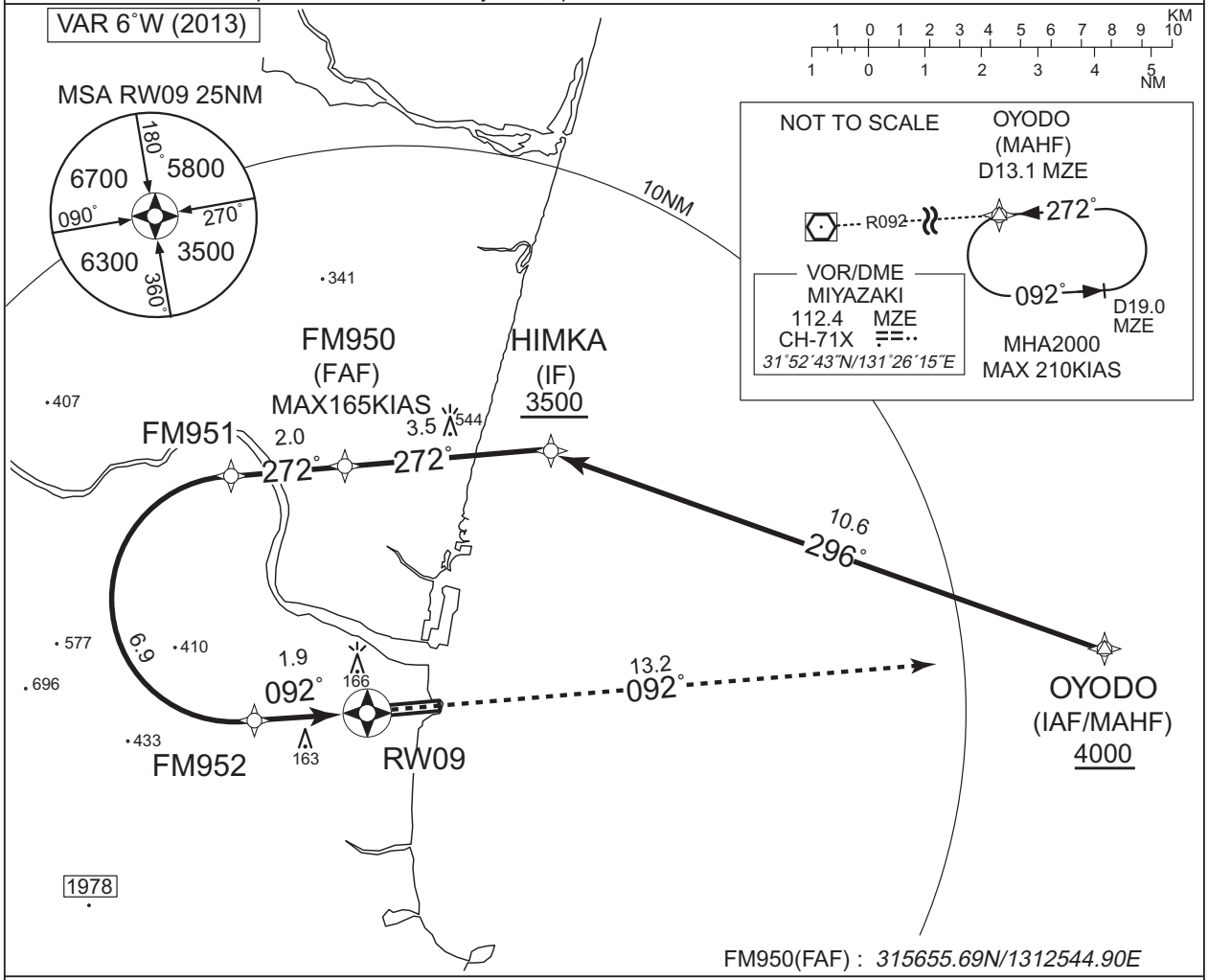
MINIMA	THR elev. 21		AD elev. 19	
CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	440 (421)	1500	520 (501)	1600
B				
C		1800	650 (631)	2400
D		2000		3200

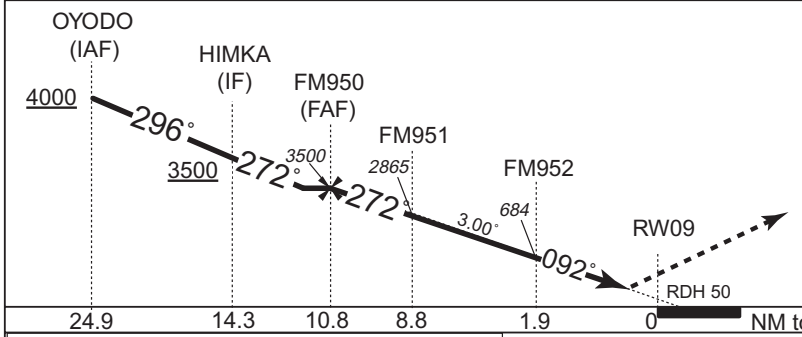
INSTRUMENT APPROACH CHART

RJFM / MIYAZAKI RNAV(RNP) Z RWY09

KAGOSHIMA APP		MIYAZAKI TOWER	
121.4 – 362.3 120.9 – 261.2	GNSS and RF required.	118.3 – 126.2 123.6 – 261.2	RADAR AVBL ATIS 126.8

For uncompensated Baro-VNAV systems, procedure not authorized below -5℃/ above 45℃





MISSED APPROACH

Climb to 4000FT, to OYODO and hold.

Contact KAGOSHIMA APP.

MINIMA	THR elev. 15 AD elev. 19	
CAT	RNP 0.30	
	DA(H)	CMV
A	—	—
B		
C	327(312)	1400
D		1600

RNP AR

Special Authorization Required

INSTRUMENT APPROACH CHART

RJFM / MIYAZAKI 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	—	—	-6.5	—	—	+4000	—	—	—
002	TF	HIMKA	—	296 (289.7)	-6.5	10.6	—	+3500	—	—	1.0
003	TF	FM950	—	272 (265.2)	-6.5	3.5	—	3500	-165	—	1.0
004	TF	FM951	—	272 (265.2)	-6.5	2.0	—	2865	—	-3.00	0.3
005	RF Center: FMRF1 r=2.18NM	FM952	—	—	-6.5	6.9	L	684	—	-3.00	0.3
006	TF	RW09	Y	092 (085.1)	-6.5	1.9	—	65	—	-3.00/50	0.3
007	TF	OYODO	—	092 (085.1)	-6.5	13.2	—	4000	—	—	1.0

Waypoint Coordinates

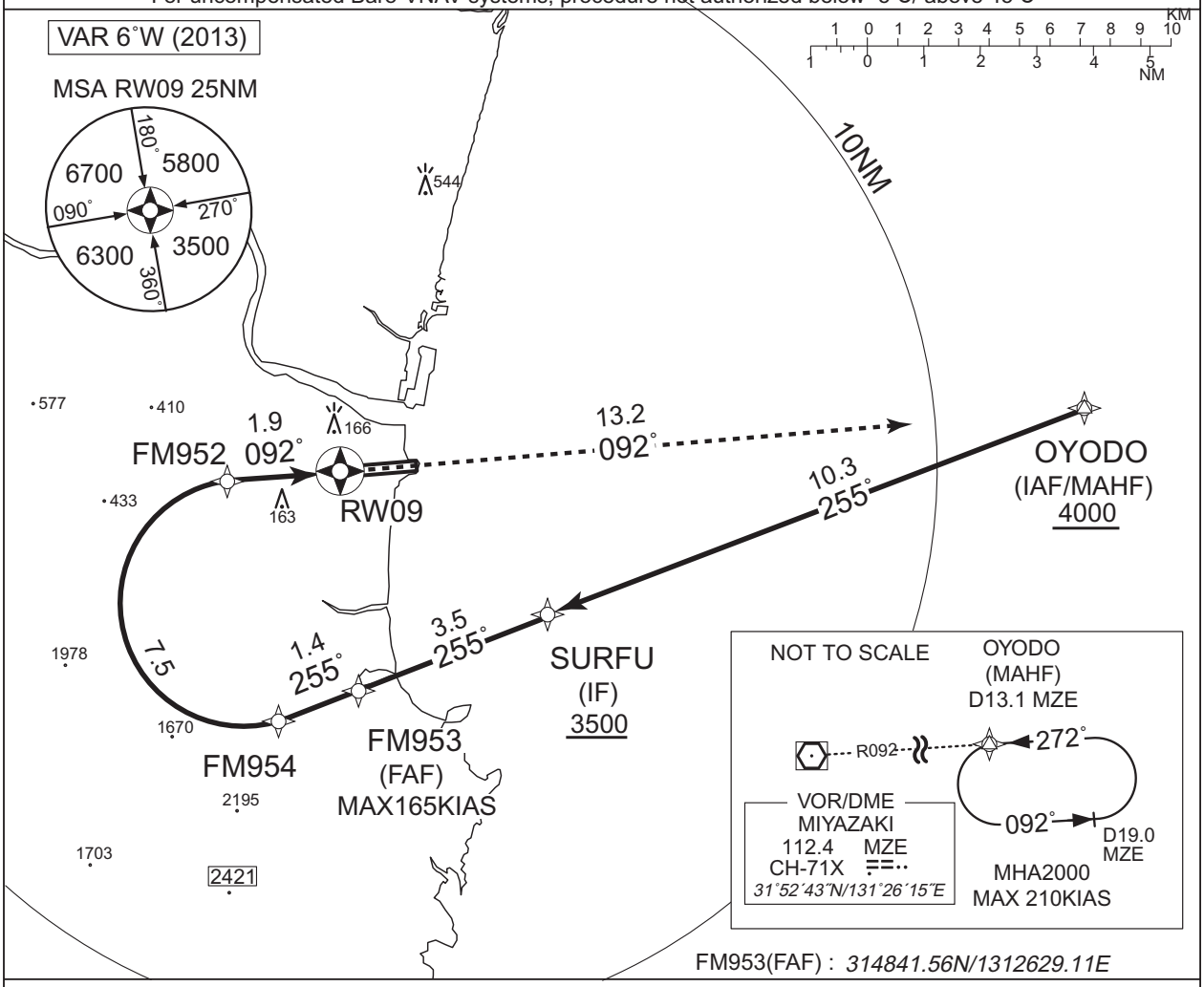
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
HIMKA	*315713.28N/1312950.79E*	FMRF1	*315435.02N/1312337.63E*
FM950	*315655.69N/1312544.90E*		
FM951	*315645.60N/1312324.68E*		
FM952	*315224.44N/1312350.57E*		
RW09	*315234.26N/1312607.02E*		
OYODO	*315340.52N/1314134.32E*		

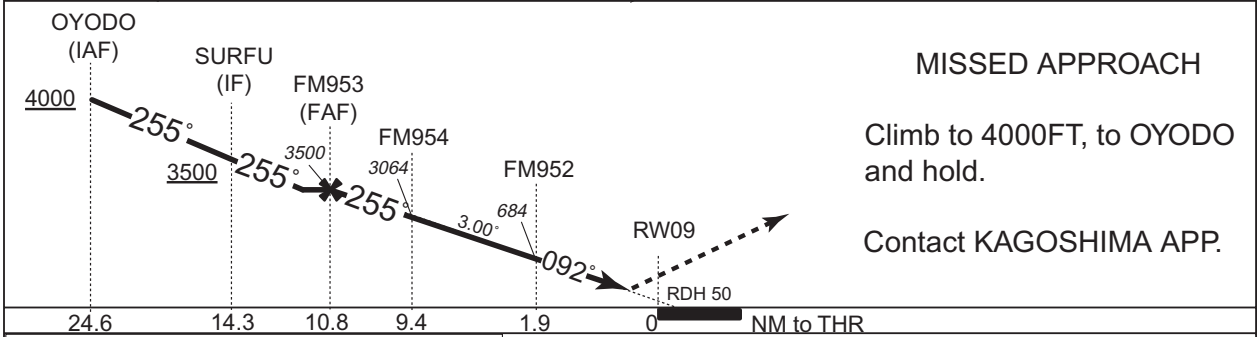
INSTRUMENT APPROACH CHART

RJFM / MIYAZAKI RNAV(RNP) Y RWY09

KAGOSHIMA APP 121.4 – 362.3 120.9 – 261.2	GNSS and RF required.	MIYAZAKI TOWER 118.3 – 126.2 123.6 – 261.2	RADAR AVBL ATIS 126.8

For uncompensated Baro-VNAV systems, procedure not authorized below -5℃/ above 45℃





MISSED APPROACH

Climb to 4000FT, to OYODO and hold.

Contact KAGOSHIMA APP.

MINIMA	THR elev. 15 AD elev. 19	
CAT	RNP 0.30	
	DA(H)	CMV
A	—	—
B		
C	327(312)	1400
D		1600

RNP AR
Special Authorization Required

INSTRUMENT APPROACH CHART

RJFM / MIYAZAKI RNAV(RNP) Y RWY09

RNAV(RNP) Y RWY09

Coding Table

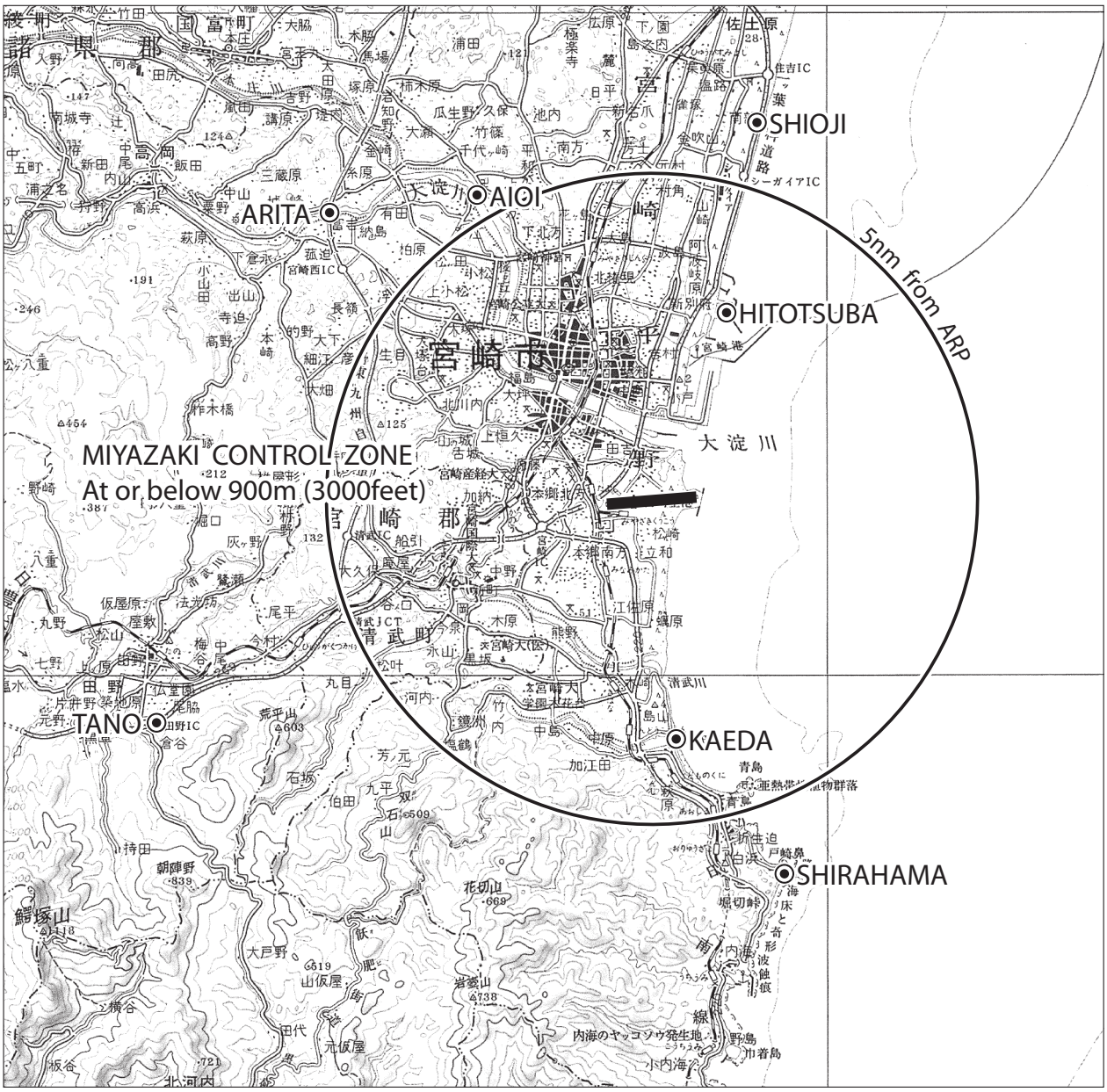
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [˚M(˚T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/ RDH (˚/FT)	RNP Value
001	IF	OYODO	—	—	-6.5	—	—	+4000	—	—	—
002	TF	SURFU	—	255 (248.8)	-6.5	10.3	—	+3500	—	—	1.0
003	TF	FM953	—	255 (248.7)	-6.5	3.5	—	3500	-165	—	1.0
004	TF	FM954	—	255 (248.7)	-6.5	1.4	—	3064	—	-3.00	0.3
005	RF Center: FMRF2 r=2.18NM	FM952	—	—	-6.5	7.5	R	684	—	-3.00	0.3
006	TF	RW09	Y	092 (085.1)	-6.5	1.9	—	65	—	-3.00/50	0.3
007	TF	OYODO	—	092 (085.1)	-6.5	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*		

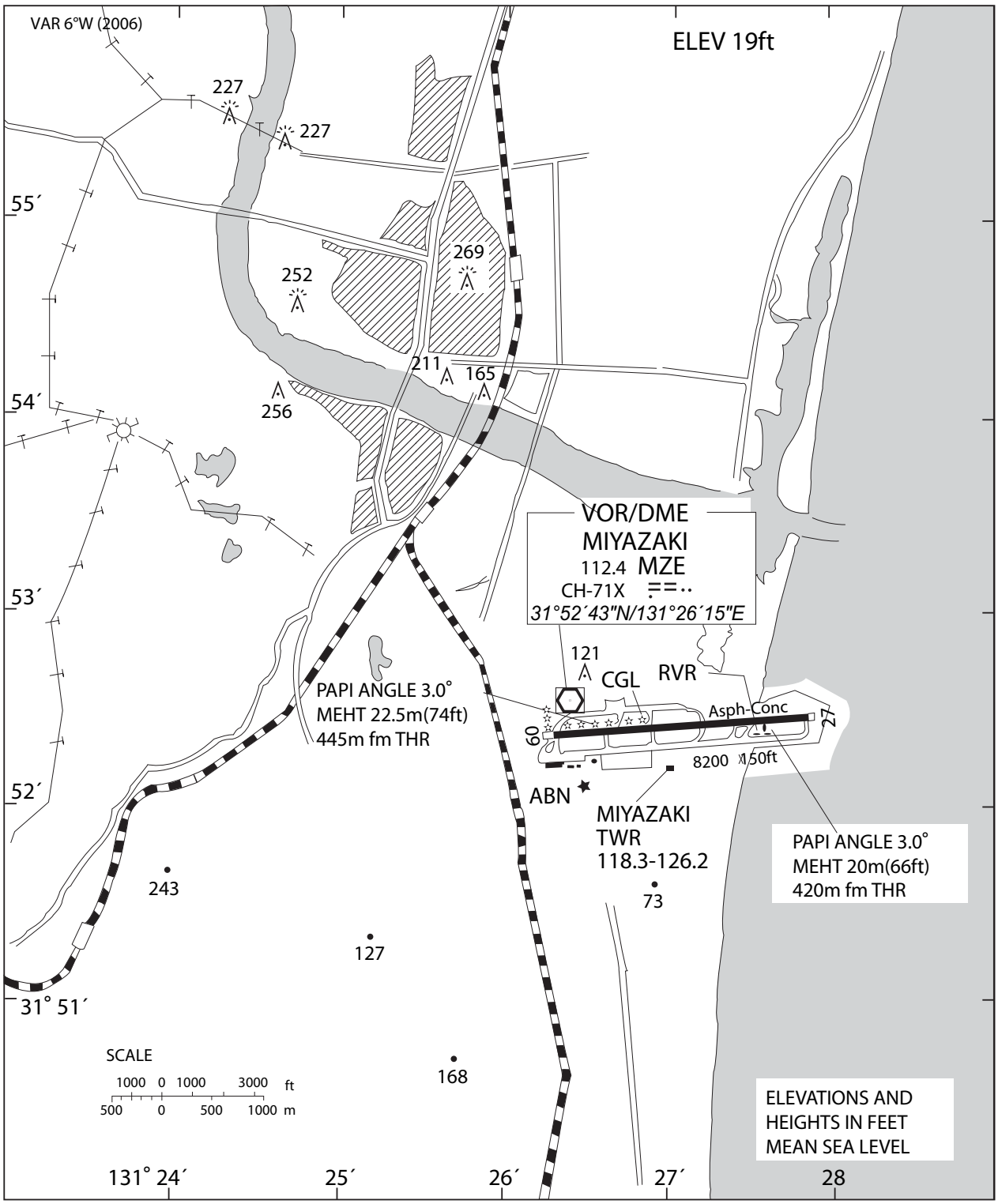
RJFM / MIYAZAKI

Visual REP



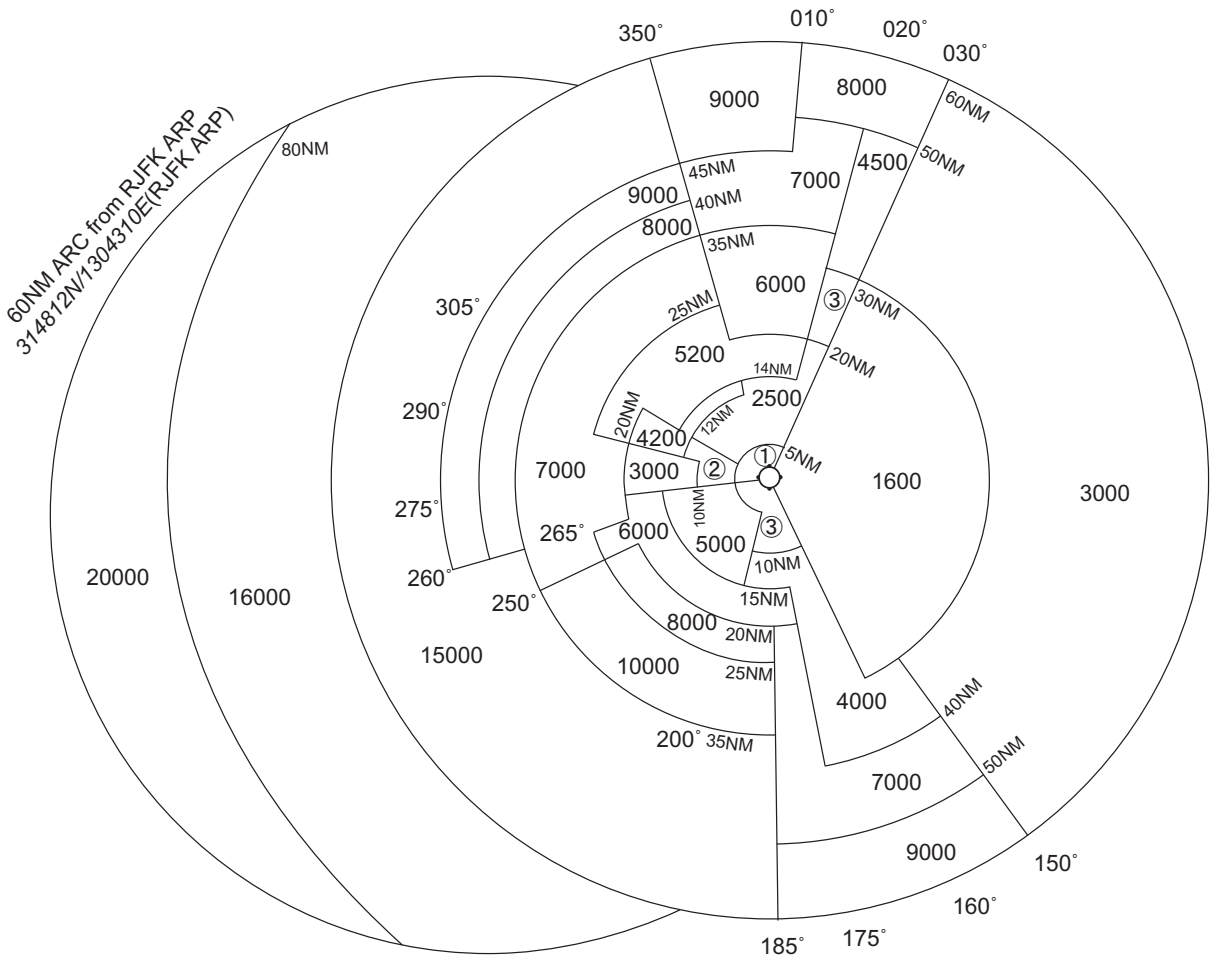
Call sign	BRG / DIST from ARP	Remarks
有　　田 Arita	318°/6.5NM	東九州自動車道大淀川橋 Bridge
相　　生 Aioi	336°/5.3NM	宮崎西環状線相生橋 Bridge
塩　　路 Shioji	022°/5.7NM	一ツ葉有料道路一ツ葉ＰＡ Parking Area
一　ツ　葉 Hitotsuba	023°/3.3NM	サンビーチ 一ツ葉 Beach
加　江　田 Kaeda	182°/3.7NM	加江田川河口 River-mouth
白　　浜 Shirahama	166°/5.8NM	戸崎鼻先端のホテル Hotel
田　　野 Tano	251°/8.1NM	宮崎自動車道田野ＩＣ Interchange

RJFM / MIYAZAKI LDG CHART



RJFM / MIYAZAKI Minimum Vectoring Altitude CHART

VAR 7˚W (2017)



① 2000
② 2700
③ 3500

CENTER : *315238N/1312655E* (RJFM ARP)

CHANGE : Update