

## AD CHART

**MATSUYAMA AP**

378m 395m 190m 85m 415m 420m 165m 351m

TWR ABN

P-1 P-2 P-3 P-4 P-5 P-6 P-7

T-1 T-2 T-3 T-4 T-5 T-6 T-7 T-8

RWY THR ID LGT RWY GUARD LGT

PAPI Angle 3.0° MEHT 20m (66 ft)

PAPI Angle 3.0° MEHT 22.5m (74 ft)

CGL

OVERRUN LGT WIND DIRECTION INDICATOR LGT

APCH LGT BEACONS

SIMPLE APCH LIGHTING SYSTEM

32

GUIDANCE LINE OF SPARE SPOT FOR MAINTENANCE OR NIGHT STAY (PPR ON USE)

B C E G J H I K L M N O P Q R S T U V W X Y Z

REMARKS :

RWY STRENGTH	PCN 63/F/A/X/T
RWY GROOVING	2500m x 30m
WIDTH & STRENGTH OF TWY	STRENGTH OF APRON SPOT 1 thru 7 PCN 62/R/B/X/T SPOT 8 thru 14, B thru H, J, K PCN 61/F/B/X/T
T-1	PCN 63/F/A/X/T
T-2	PCN 76/FB/X/T
T-3	PCN 88/F/C/X/T
T-4 thru T-6	PCN 83/FB/X/T
T-7	PCN 121/F/D/X/T
T-8	PCN 83/FB/X/T
P-1	PCN 63/F/A/X/T
P-2 thru P-3	PCN 76/FB/X/T
P-4 thru P-7	PCN 83/FB/X/T

**LONGITUDINAL PROFILE OF RUNWAY**

Station (m)	Elevation (ft)	Elevation (m)	Slope (%)
0	25	7.658	LEVEL
240	25	7.658	0.195%
360	24	7.424	0.613%
500	21	6.566	0.78%
890	11	3.524	0.094%
1300	13	4.011	0.118%
1500	13	4.147	0.063%
1720	14	4.286	0.134%
1980	15	4.635	0.104%
2060	15	4.718	0.026%
2140	15	4.739	0.106%
2300	16	4.908	0.14%
2420	16	5.076	0.159%
2500	17	5.203	

## STANDARD DEPARTURE CHART -INSTRUMENT

RJOM / MATSUYAMA

SID

MATSUYAMA REVERSAL FIVE DEPARTURE

RWY32 : Climb RWY HDG to 500FT, turn left HDG 270° to 3500FT, turn left...

RWY14 : Climb RWY HDG to 1300FT, turn right HDG 270° to 3500FT, turn right...

...direct to MYE VOR/DME.

Cross MYE VOR/DME at or above 6500FT.

Note RWY14 : 7.0% climb gradient required up to 3200FT.

OBST ALT 2822FT located at 7.6NM 172° FM end of RWY14.

No turn before DER.

MATSUYAMA REVERSAL  
FIVE DEPARTURE

STANDARD DEPARTURE CHART -INSTRUMENT

RJOM / MATSUYAMA

RNAV SID



## STANDARD DEPARTURE CHART -INSTRUMENT

RJOM / MATSUYAMA

➡ RNAV SID

IYO ONE DEPARTURE

## RWY14

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	—	—	138 (130.7)	-7.4	—	—	+1300	—	—	Basic RNP1
002	DF	SHONO	—	—	-7.4	—	R	+10000	—	—	Basic RNP1

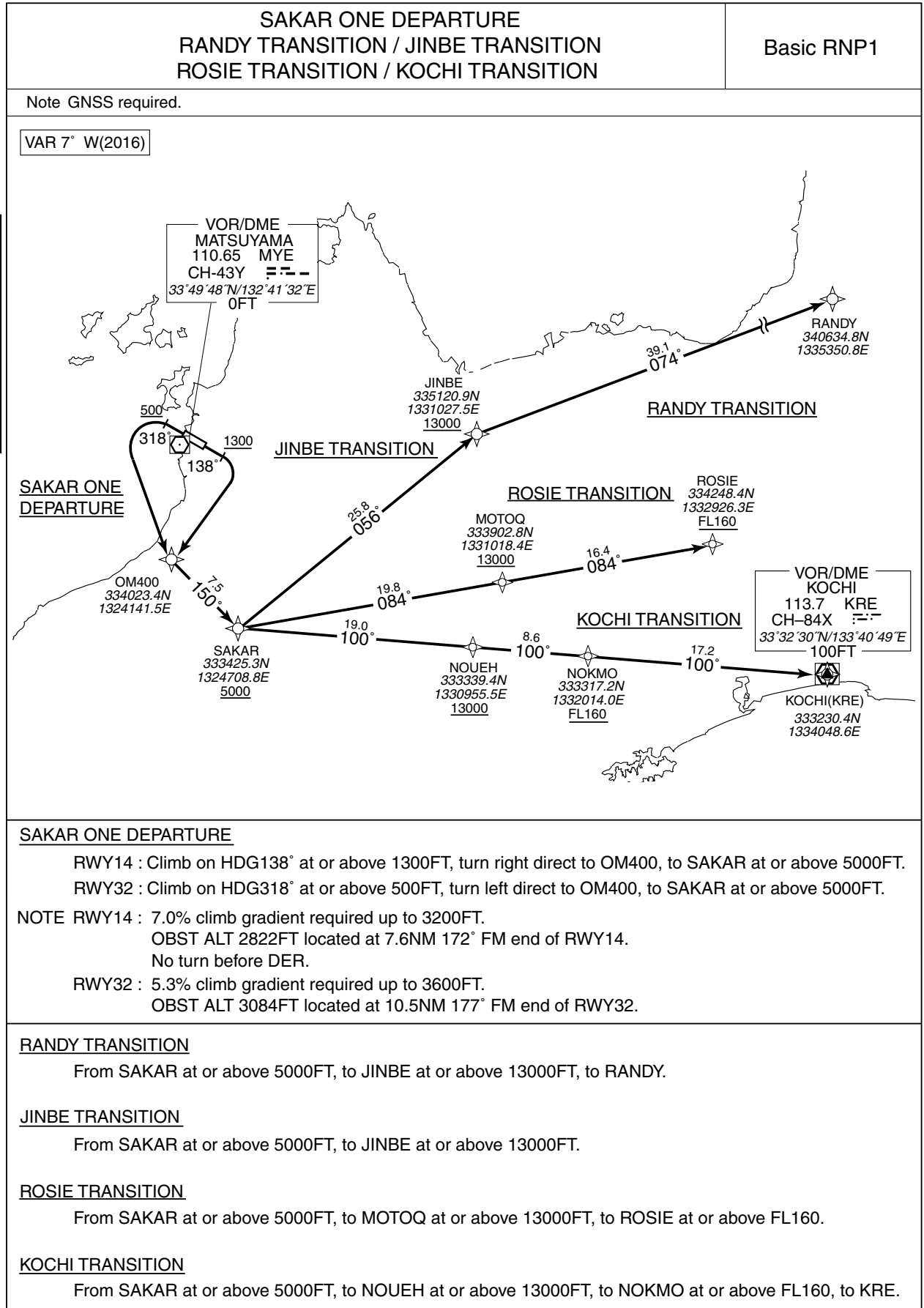
## RWY32

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	—	—	318 (310.7)	-7.4	—	—	+500	—	—	Basic RNP1
002	DF	SHONO	—	—	-7.4	—	L	+10000	—	—	Basic RNP1

STANDARD DEPARTURE CHART -INSTRUMENT

RJOM / MATSUYAMA

RNAV SID and TRANSITION



## STANDARD DEPARTURE CHART -INSTRUMENT

RJOM / MATSUYAMA

➡ RNAV SID and TRANSITION

SAKAR ONE DEPARTURE

## RWY14

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	—	—	138 (130.7)	-7.4	—	—	+1300	—	—	Basic RNP1
002	DF	OM400	—	—	-7.4	—	R	—	—	—	Basic RNP1
003	TF	SAKAR	—	150 (142.7)	-7.4	7.5	—	+5000	—	—	Basic RNP1

## RWY32

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	—	—	318 (310.7)	-7.4	—	—	+500	—	—	Basic RNP1
002	DF	OM400	—	—	-7.4	—	L	—	—	—	Basic RNP1
003	TF	SAKAR	—	150 (142.7)	-7.4	7.5	—	+5000	—	—	Basic RNP1

RANDY 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	SAKAR	—	—	-7.4	—	—	+5000	—	—	Basic RNP1
002	TF	JINBE	—	056 (048.8)	-7.4	25.8	—	+13000	—	—	Basic RNP1
003	TF	RANDY	—	074 (066.9)	-7.4	39.1	—	—	—	—	Basic RNP1

JINBE 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	SAKAR	—	—	-7.4	—	—	+5000	—	—	Basic RNP1
002	TF	JINBE	—	056 (048.8)	-7.4	25.8	—	+13000	—	—	Basic RNP1

## STANDARD DEPARTURE CHART -INSTRUMENT

RJOM / MATSUYAMA

➡ RNAV SID and TRANSITION

ROSIE 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	SAKAR	—	—	-7.4	—	—	+5000	—	—	Basic RNP1
002	TF	MOTOQ	—	084 (076.4)	-7.4	19.8	—	+13000	—	—	Basic RNP1
003	TF	ROSIE	—	084 (076.6)	-7.4	16.4	—	+FL160	—	—	Basic RNP1

KOCHI 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	SAKAR	—	—	-7.4	—	—	+5000	—	—	Basic RNP1
002	TF	NOUEH	—	100 (092.2)	-7.4	19.0	—	+13000	—	—	Basic RNP1
003	TF	NOKMO	—	100 (092.4)	-7.4	8.6	—	+FL160	—	—	Basic RNP1
004	TF	KRE	—	100 (092.5)	-7.4	17.2	—	—	—	—	Basic RNP1

## STANDARD DEPARTURE CHART -INSTRUMENT

RJOM / MATSUYAMA

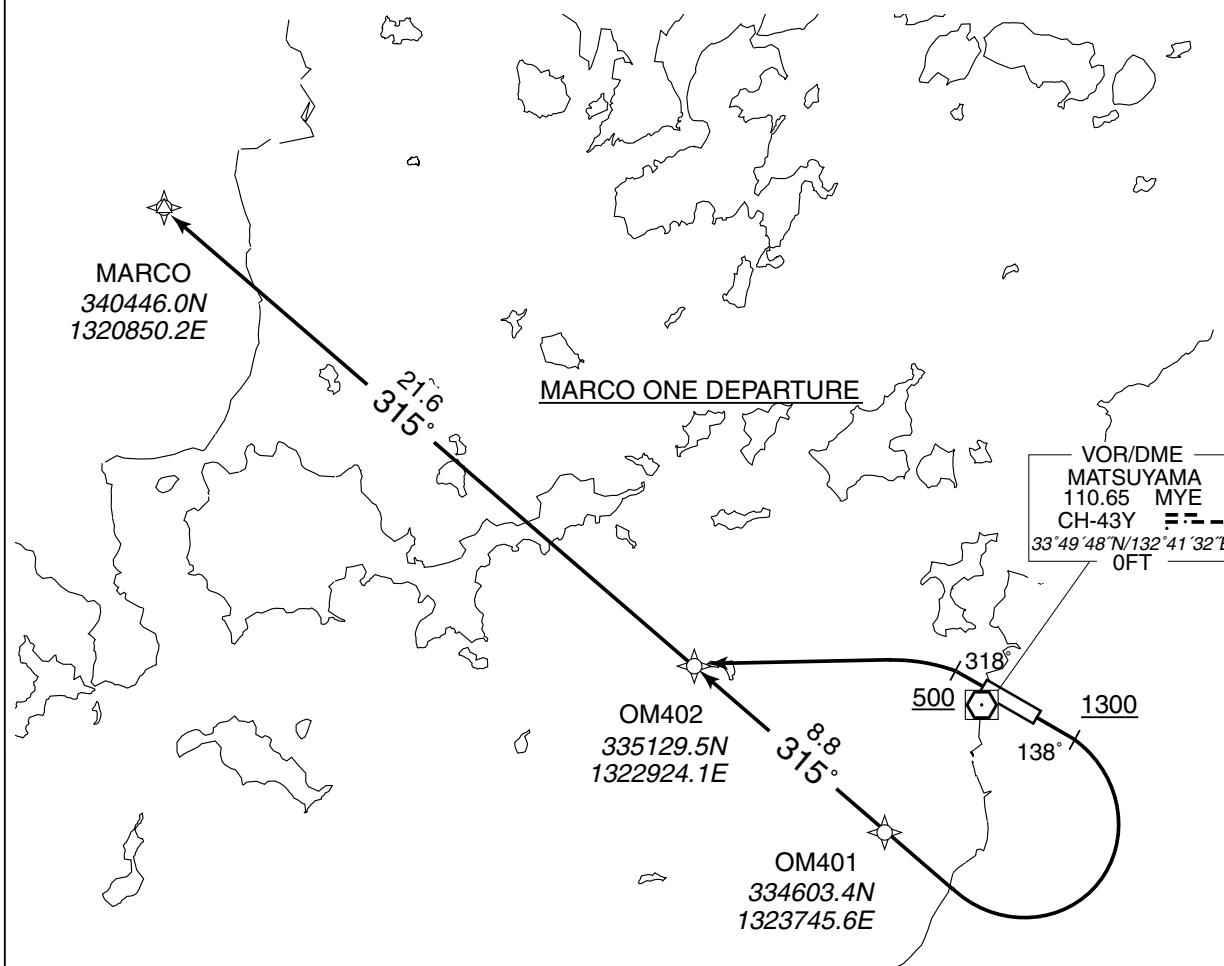
RNAV SID

## MARCO ONE DEPARTURE

Basic RNP1

Note GNSS required.

VAR 7° W(2016)

MARCO ONE DEPARTURE

RWY14 : Climb on HDG138° at or above 1300FT, turn right direct to OM401, to OM402, to MARCO.

RWY32 : Climb on HDG318° at or above 500FT, turn left direct to OM402, to MARCO.

NOTE RWY14 : 7.0% climb gradient required up to 1800FT.

OBST ALT 1464FT located at 4.3NM 154° FM end of RWY14.

No turn before DER.



## STANDARD DEPARTURE CHART -INSTRUMENT

RJOM / MATSUYAMA

➡ RNAV SID

MARCO ONE DEPARTURE

## RWY14

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	—	—	138 (130.7)	-7.4	—	—	+1300	—	—	Basic RNP1
002	DF	OM401	—	—	-7.4	—	R	—	—	—	Basic RNP1
003	TF	OM402	—	315 (308.1)	-7.4	8.8	—	—	—	—	Basic RNP1
004	TF	MARCO	—	315 (308.1)	-7.4	21.6	—	—	—	—	Basic RNP1

## RWY32

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	—	—	318 (310.7)	-7.4	—	—	+500	—	—	Basic RNP1
002	DF	OM402	—	—	-7.4	—	L	—	—	—	Basic RNP1
003	TF	MARCO	—	315 (308.1)	-7.4	21.6	—	—	—	—	Basic RNP1

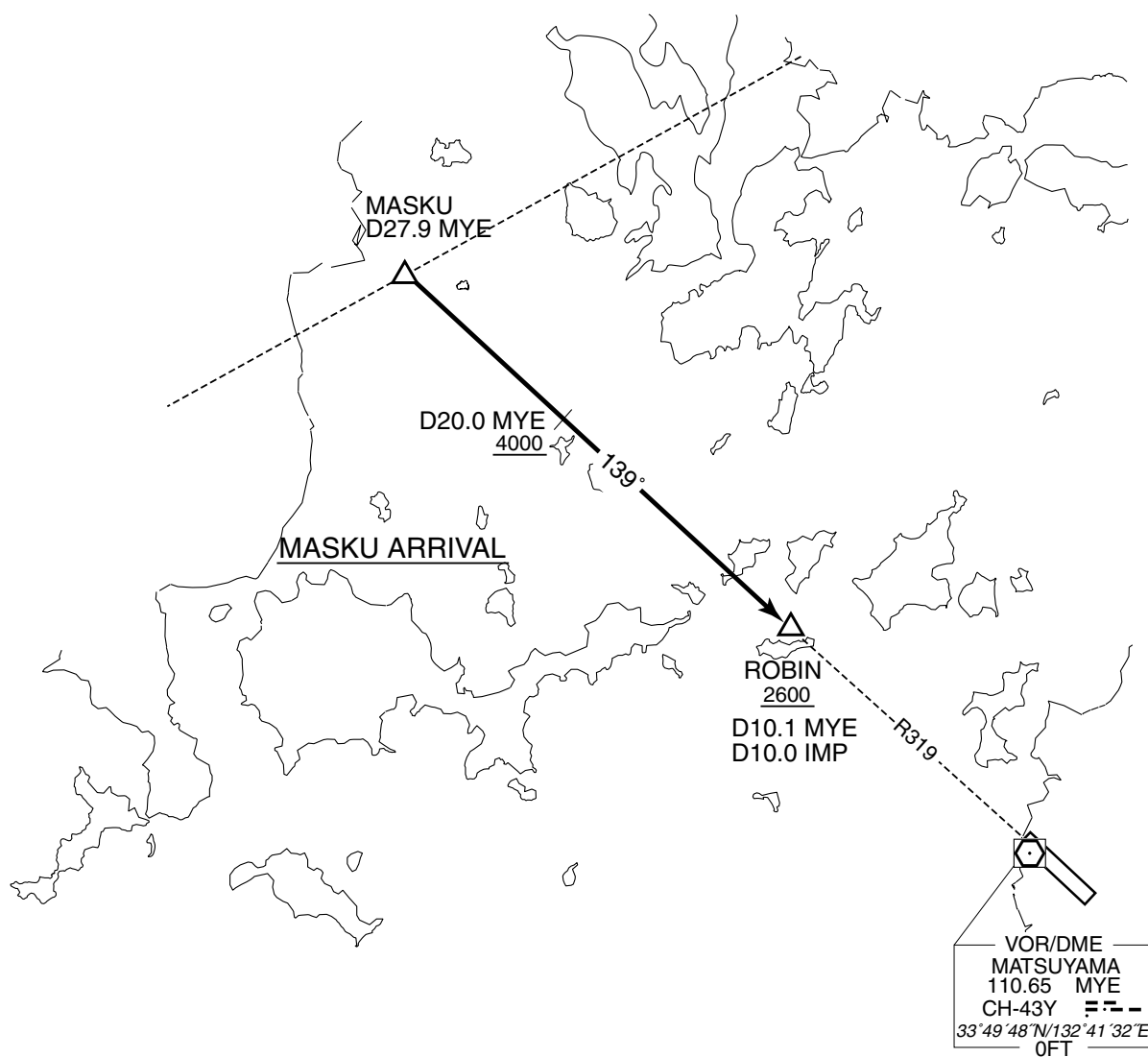
## STANDARD ARRIVAL CHART - INSTRUMENT

RJOM / MATSUYAMA

STAR

MASKU ARRIVAL

From over MASKU, via MYE R319 to ROBIN.

Cross MASKU at or above 5000FT, cross MYE R319/20.0DME at or above 4000FT,  
cross ROBIN at or above 2600FT.

STANDARD ARRIVAL CHART -INSTRUMENT

RJOM / MATSUYAMA

RNAV STAR RWY14

ROBIN WEST ARRIVAL	Basic RNP1
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Note GNSS required.

VAR 7°W (2016)



## STANDARD ARRIVAL CHART -INSTRUMENT

RJOM / MATSUYAMA

RNAV STAR RWY14

ROBIN WEST ARRIVAL

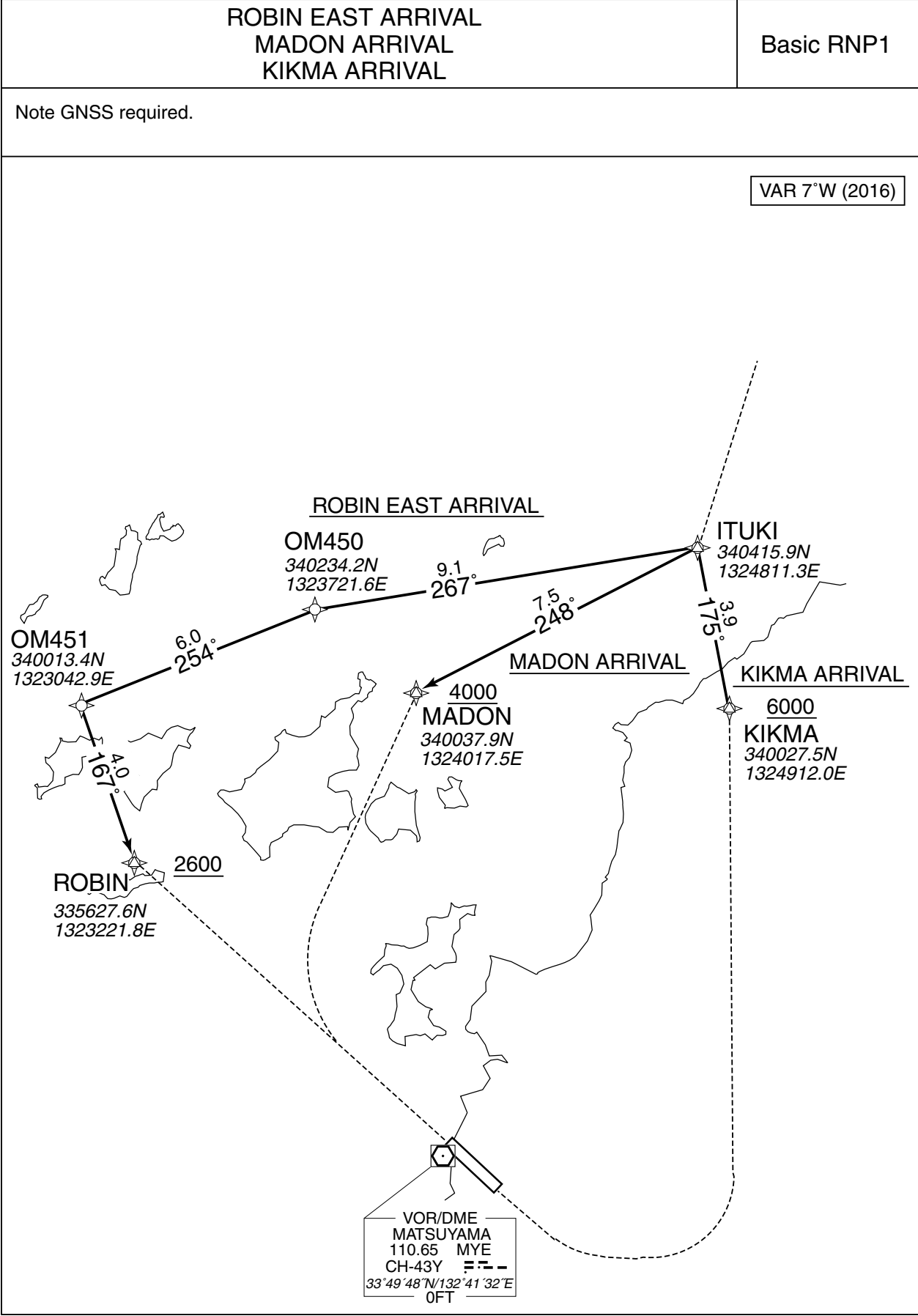
From MARCO, to ROMAN at or above 4000FT, to ROBIN at or above 2600FT.

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	MARCO	—	—	■ -7.4	—	—	—	—	—	■ Basic RNP1
002	TF	ROMAN	—	120 (113.0)	■ -7.4	10.0	—	+4000	—	—	■ Basic RNP1
003	TF	ROBIN	—	120 (113.1)	■ -7.4	11.2	—	+2600	—	—	■ Basic RNP1

STANDARD ARRIVAL CHART -INSTRUMENT

RJOM / MATSUYAMA

RNAV STAR RWY14/32



## STANDARD ARRIVAL CHART -INSTRUMENT

RJOM / MATSUYAMA

RNAV STAR RWY14/32

ROBIN EAST ARRIVAL

From ITUKI, to OM450, to OM451, to ROBIN at or above 2600FT.

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	ITUKI	—	—	■ -7.4	—	—	—	—	—	■ Basic RNP1
002	TF	OM450	—	■ 267 (259.4)	■ -7.4	9.1	—	—	—	—	■ Basic RNP1
003	TF	OM451	—	■ 254 (247.0)	■ -7.4	6.0	—	—	—	—	■ Basic RNP1
004	TF	ROBIN	—	■ 167 (160.0)	■ -7.4	4.0	—	+2600	—	—	■ Basic RNP1

MADON ARRIVAL

From ITUKI, to MADON at or above 4000FT.

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	ITUKI	—	—	■ -7.4	—	—	—	—	—	■ Basic RNP1
002	TF	MADON	—	■ 248 (241.0)	■ -7.4	7.5	—	+4000	—	—	■ Basic RNP1

KIKMA ARRIVAL

From ITUKI, to KIKMA at or above 6000FT.

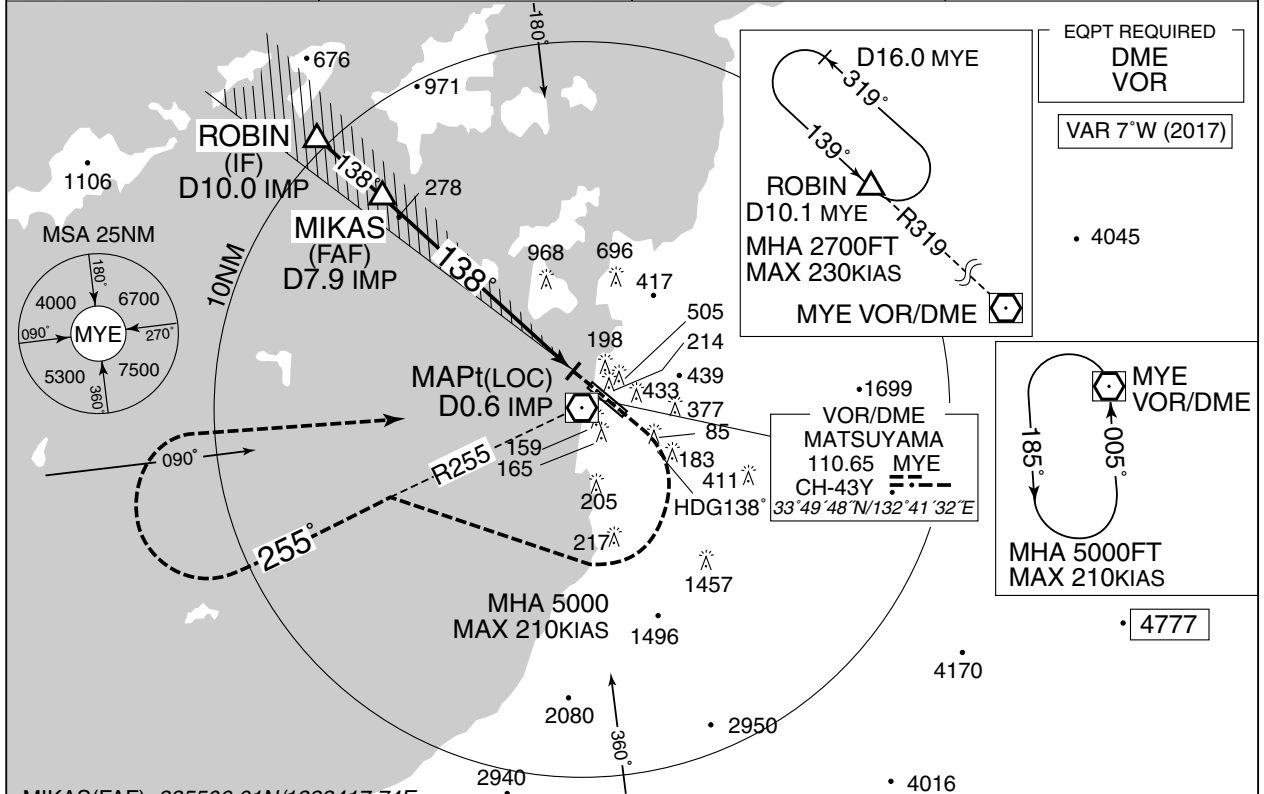
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	ITUKI	—	—	■ -7.4	—	—	—	—	—	■ Basic RNP1
002	TF	KIKMA	—	■ 175 (167.6)	■ -7.4	3.9	—	+6000	—	—	■ Basic RNP1

INSTRUMENT APPROACH CHART

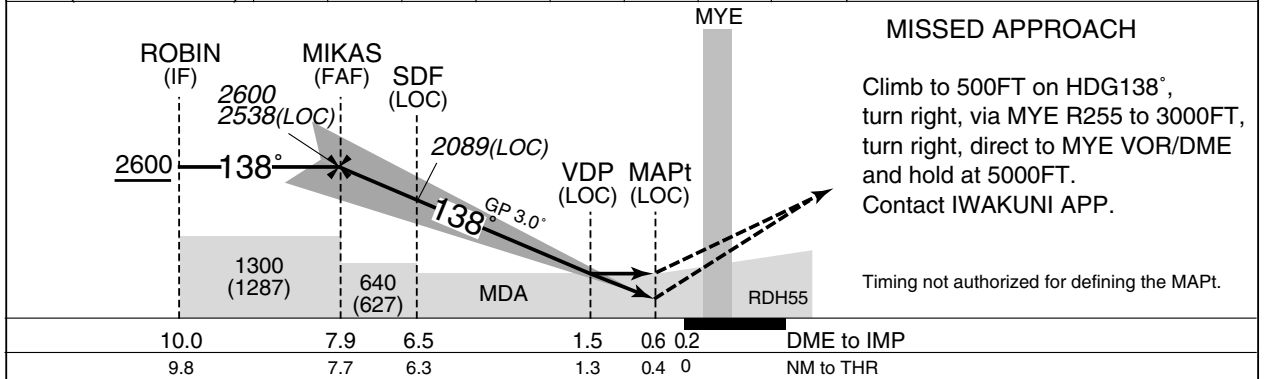
RJOM / MATSUYAMA

ILS Z or LOC Z RWY14

IWAKUNI APP 128.0 - 236.2	ILS-LOC 109.3 IMP ILS-GP 332.0 ILS-DME CH-30X	MATSUYAMA TOWER 118.35 - 126.2	RADAR AVBL ATIS 126.65
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NM to IMP	FAF	7	6	5	4	3	2	MAPt
ALT (3.0° APCH Path)	2538	2247	1928	1610	1292	973	654	-



Missed APCH climb gradient MNM 4.0%.

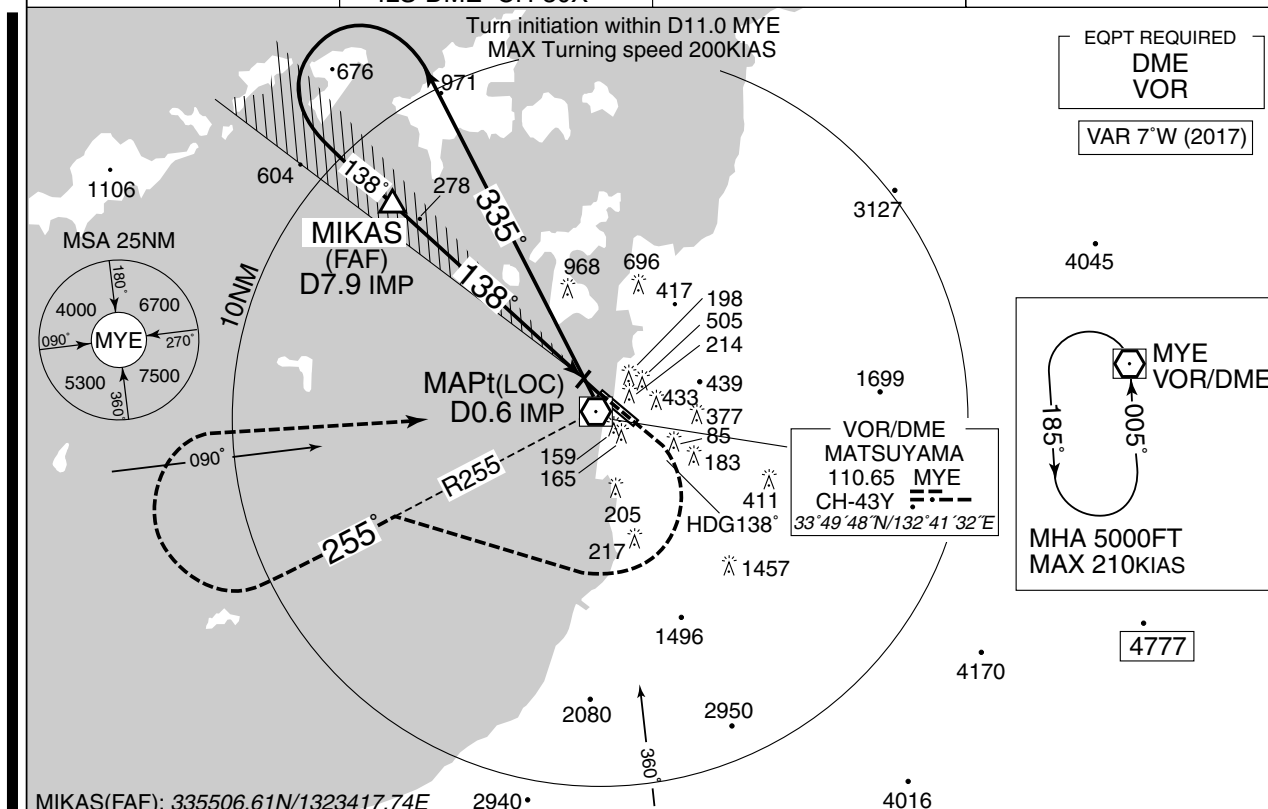
MINIMA		THR elev. 25		AD elev. 13	
CAT	CAT I	LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H) VIS
A	225 (200)	1000	470 (457)	1500	520 (507) 1600
B					
C				2000	570 (557) 2400 3200
D					

MINIMA with Missed APCH climb gradient of 2.5% are not established.  
Circling to WEST side of RWY only.

## INSTRUMENT APPROACH CHART

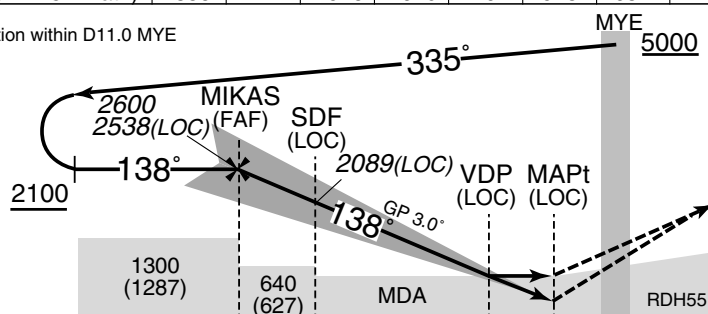
RJOM / MATSUYAMA

ILS Y or LOC Y RWY14

IWAKUNI APP  
128.0 - 236.2ILS-LOC  
109.3 IMP  
ILS-GP 332.0  
ILS-DME CH-30XMATSUYAMA TOWER  
118.35 - 126.2RADAR AVBL  
ATIS 126.65

NM to IMP	FAF	7	6	5	4	3	2	MAPt
ALT (3.0° APCH Path)	2538	2247	1928	1610	1292	973	654	—

Turn initiation within D11.0 MYE



## MISSED APPROACH

Climb to 500FT on HDG138°, turn right, via MYE R255 to 3000FT, turn right, direct to MYE VOR/DME and hold at 5000FT. Contact IWAKUNI APP.

Timing not authorized for defining the MAPt.

DME to IMP	7.9	6.5	1.5	0.6	0.2
NM to THR	7.7	6.3	1.3	0.4	0

Missed APCH climb gradient MNM 4.0%.

MINIMA		THR elev. 25		AD elev. 13	
CAT	CAT I		LOC		CIRCLING
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H) VIS
A	225 (200)	1000	470 (457)	1500	520 (507) 1600
B					
C				2000	570 (557) 2400
D					

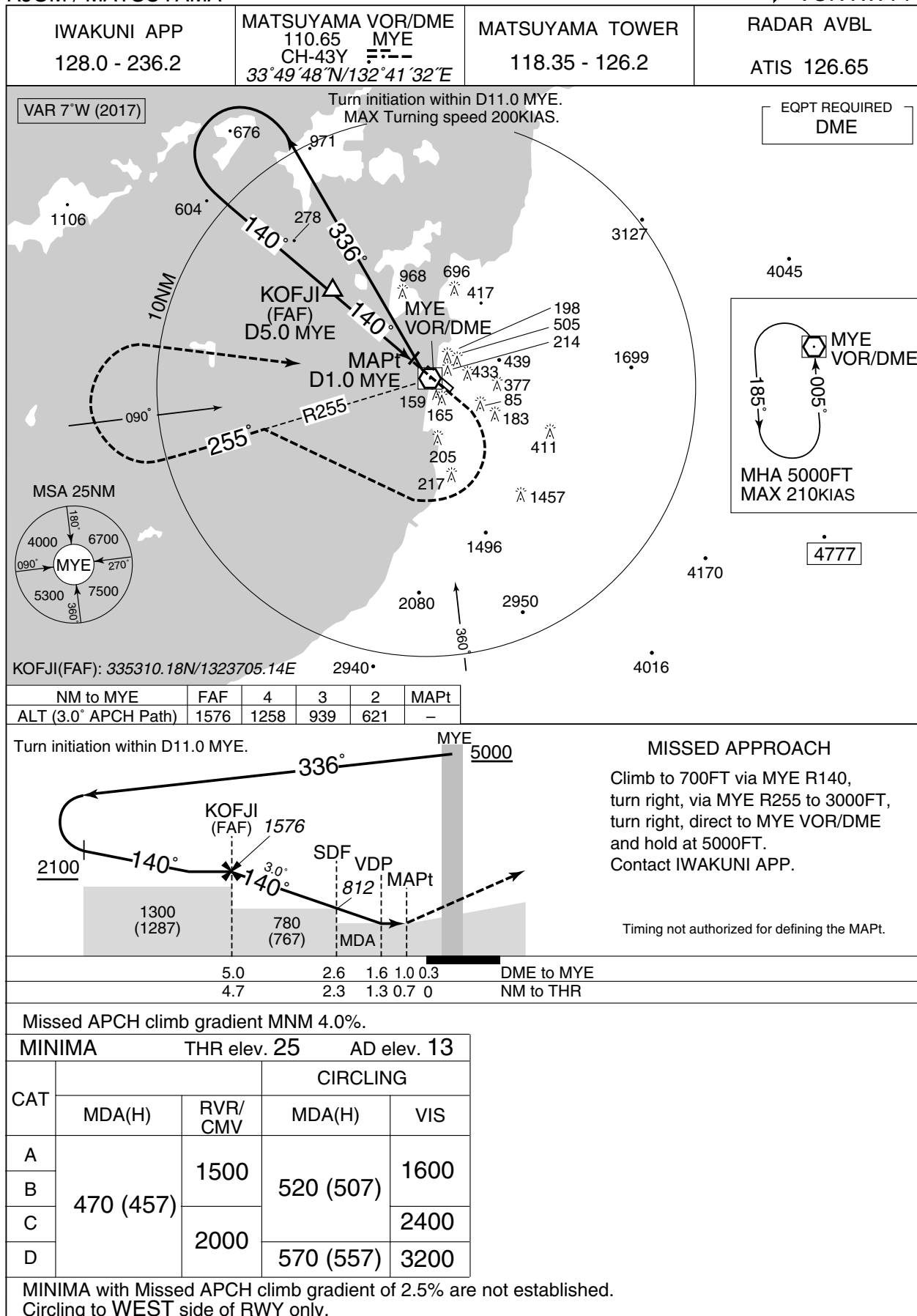
MINIMA with Missed APCH climb gradient of 2.5% are not established.  
Circling to WEST side of RWY only.



INSTRUMENT APPROACH CHART

RJOM / MATSUYAMA

➔ VOR RWY14



## INSTRUMENT APPROACH CHART

RJOM / MATSUYAMA

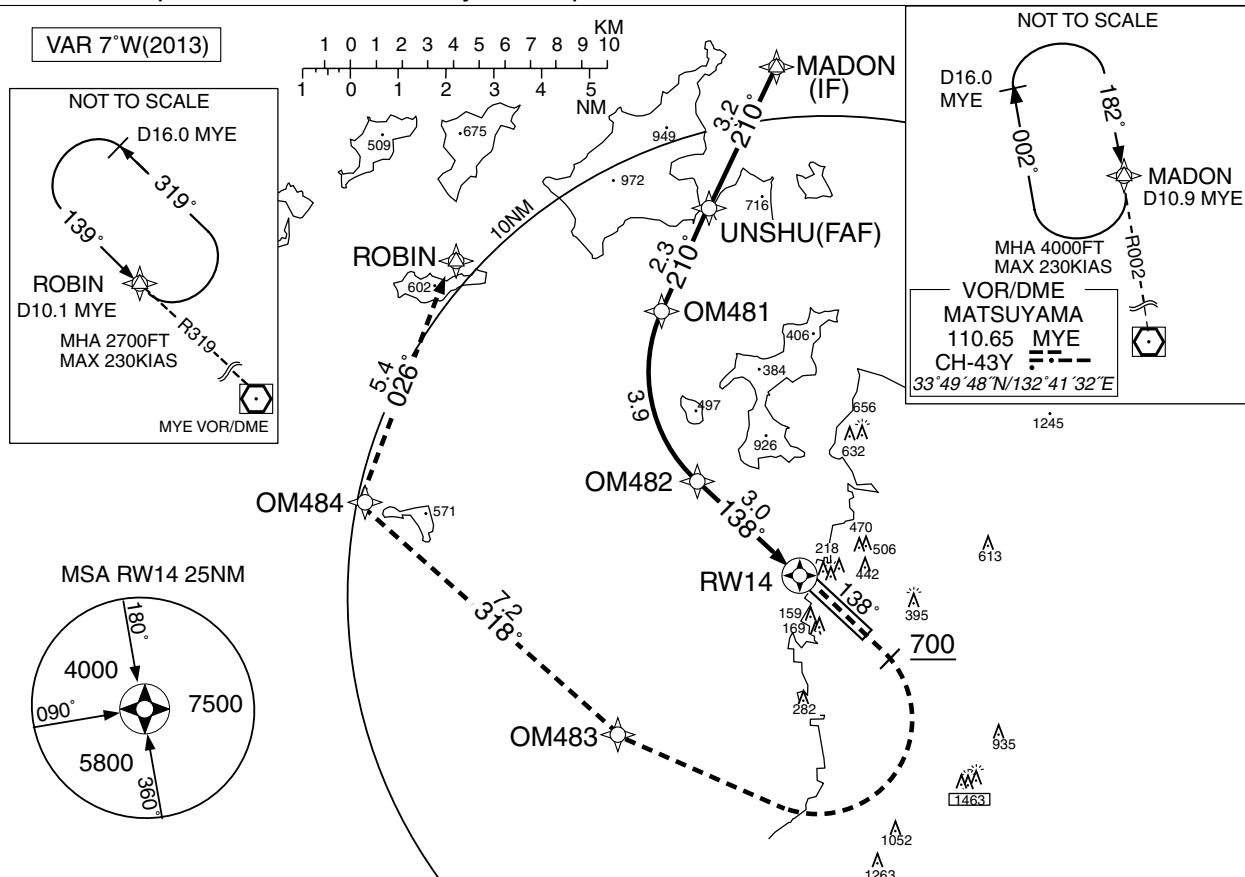
RNAV(RNP) RWY14

IWAKUNI APP  
128.0 - 236.2

GNSS and RF required

MATSUYAMA TOWER  
118.35 - 126.2RADAR AVBL  
ATIS 126.65

For uncompensated Baro-VNAV systems, procedure not authorized below -5°C / above 50°C



UNSHU(FAF) : 335740.45N/1323845.52E

MADON  
(IF)UNSHU  
(FAF)

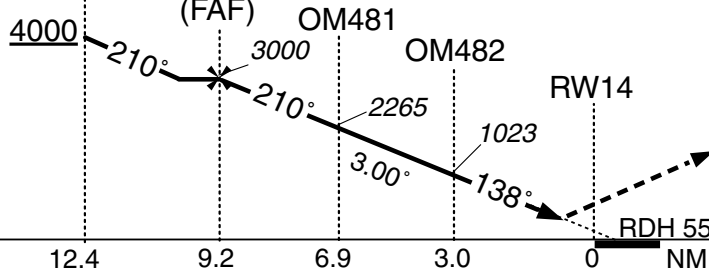
OM481

OM482

RW14

## MISSED APPROACH

From RW14 on track 138°,  
at or above 700FT turn right,  
direct to OM483, to OM484,  
to ROBIN and hold at  
2700FT.  
Contact IWAKUNI APP.



Missed APCH climb gradient MNM 5.0%.

MINIMA THR elev.25 AD elev.13

CAT	RNP 0.30	
	DA(H)	CMV
A	—	—
B	—	—
C	505(480)	2000
D	505(480)	2000

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

**RNP AR**

Special Authorization Required

## INSTRUMENT APPROACH CHART

RJOM / MATSUYAMA

RNAV(RNP) RWY14

RNAV(RNP) RWY14Coding 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	MADON	—	—	-7.1	—	—	+4000	—	—	—
002	TF	UNSHU	—	210 (203.3)	-7.1	3.2	—	3000	—	—	1.0
003	TF	OM481	—	210 (203.2)	-7.1	2.3	—	2265	—	-3.00	0.3
004	RF Center: OMRF4 r=3.06NM	OM482	—	—	-7.1	3.9	L	1023	—	-3.00	0.3
005	TF	RW14	Y	138 (130.5)	-7.1	3.0	—	80	—	-3.00/55	0.3
006	FA	—	—	138 (130.5)	-7.1	—	—	+700	—	—	1.0
007	DF	OM483	—	—	-7.1	—	R	—	—	—	1.0
008	TF	OM484	—	318 (310.5)	-7.1	7.2	—	—	—	—	1.0
009	TF	ROBIN	—	026 (018.6)	-7.1	5.4	—	2700	—	—	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
MADON	340037.92N/1324017.47E	OMRF4	335420.16N/1324102.43E
UNSHU	335740.45N/1323845.52E		
OM481	335533.13N/1323739.63E		
OM482	335159.96N/1323839.26E		
RW14	335004.50N/1324121.73E		
OM483	334643.12N/1323652.81E		
OM484	335123.09N/1323018.19E		
ROBIN	335627.62N/1323221.80E		

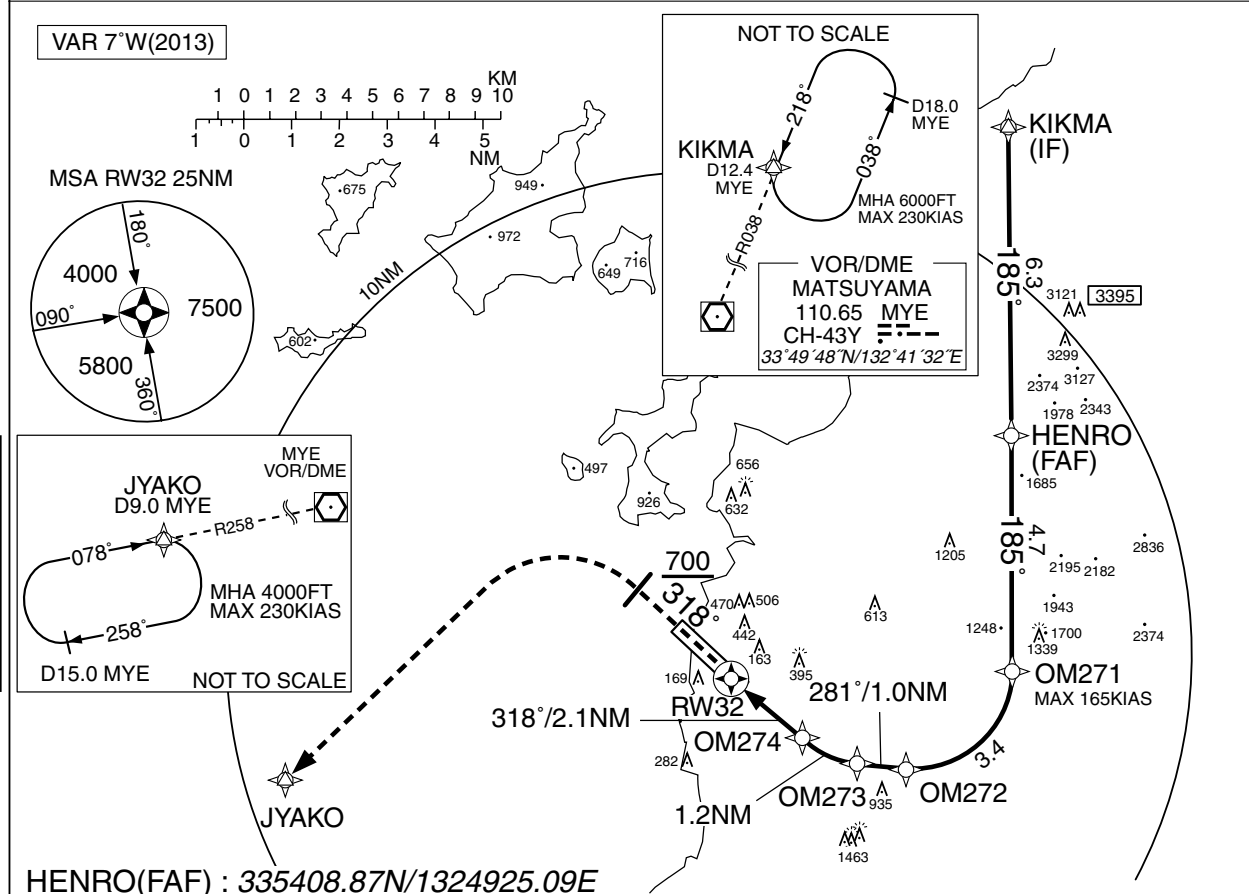
## INSTRUMENT APPROACH CHART

RJOM / MATSUYAMA

RNAV(RNP) RWY32

IWAKUNI APP 128.0 - 236.2	GNSS and RF required	MATSUYAMA TOWER 118.35 - 126.2	RADAR AVBL ATIS 126.65
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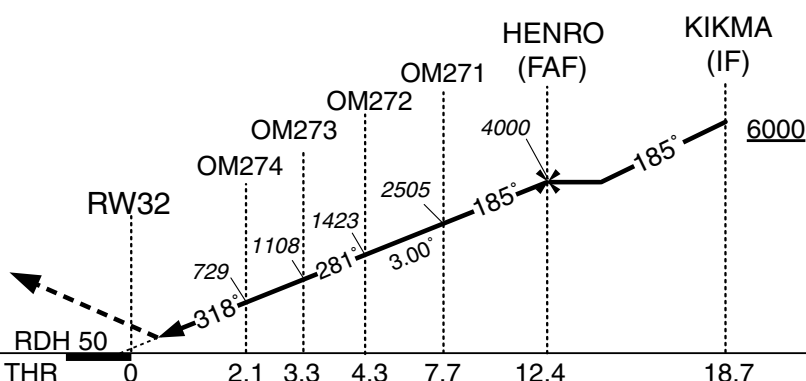
For uncompensated Baro-VNAV systems, procedure not authorized below -5°C / above 50°C



## MISSED APPROACH

From RW32 on track 318°, at or above 700FT turn left, direct to JYAKO and hold at 4000FT.

Contact IWAKUNI APP.



Missed APCH climb gradient MNM 5.0%.

MINIMA THR elev.17 AD elev.13

CAT	RNP 0.30	
	DA(H)	CMV
A	—	—
B	—	—
C	484(467)	1600
D	—	1800

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

**RNP AR**

Special Authorization Required

## INSTRUMENT APPROACH CHART

RJOM / MATSUYAMA

RNAV(RNP) RWY32

RNAV(RNP) RWY32Coding Table

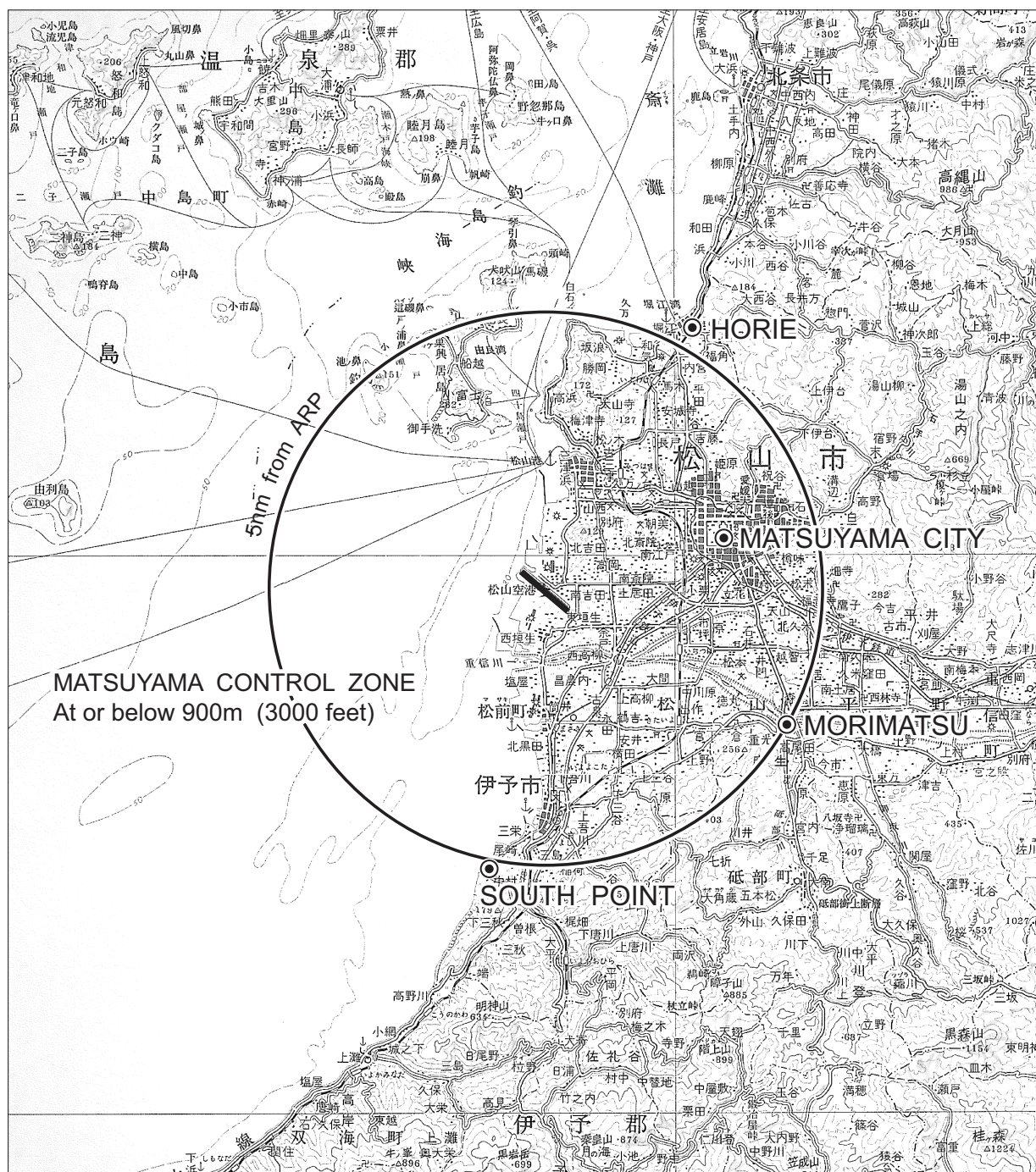
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/ RDH (°/FT)	RNP Value
001	IF	KIKMA	—	—	-7.1	—	—	+6000	—	—	—
002	TF	HENRO	—	185 (178.4)	-7.1	6.3	—	4000	—	—	1.0
003	TF	OM271	—	185 (178.4)	-7.1	4.7	—	2505	-165	-3.00	0.3
004	RF Center: OMRF1 r=2.04NM	OM272	—	—	-7.1	3.4	R	1423	—	-3.00	0.3
005	TF	OM273	—	281 (273.5)	-7.1	1.0	—	1108	—	-3.00	0.3
006	RF Center: OMRF2 r=1.85NM	OM274	—	—	-7.1	1.2	R	729	—	-3.00	0.3
007	TF	RW32	Y	318 (310.7)	-7.1	2.1	—	67	—	-3.00/50	0.3
008	FA	—	—	318 (310.7)	-7.1	—	—	+700	—	—	1.0
009	DF	JYAKO	—	—	-7.1	—	L	4000	—	—	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
KIKMA	340027.49N/1324911.96E	OMRF1	334923.23N/1324707.68E
HENRO	335408.87N/1324925.09E	OMRF2	334915.02N/1324555.54E
OM271	334926.79N/1324934.83E		
OM272	334720.59N/1324658.72E		
OM273	334724.21N/1324547.47E		
OM274	334750.46N/1324429.38E		
RW32	334911.75N/1324235.61E		
JYAKO	334643.83N/1323118.89E		

## RJOM / MATSUYAMA

## Visual REP



Call sign	BRG / DIST from ARP	Remarks
堀江 Horie	033°/5.4NM	堀江港 Horie harbor
松山シティー Matsuyama City	076°/3.4NM	松山城 Matsuyama castle
森松 Morimatsu	124°/5.0NM	森松町重信橋 Shigenobu bridges in Morimatsu cho
サウスポイント South Point	199°/5.1NM	伊予市南部森川河口 Mori river-mouth in the southern part of Iyo city