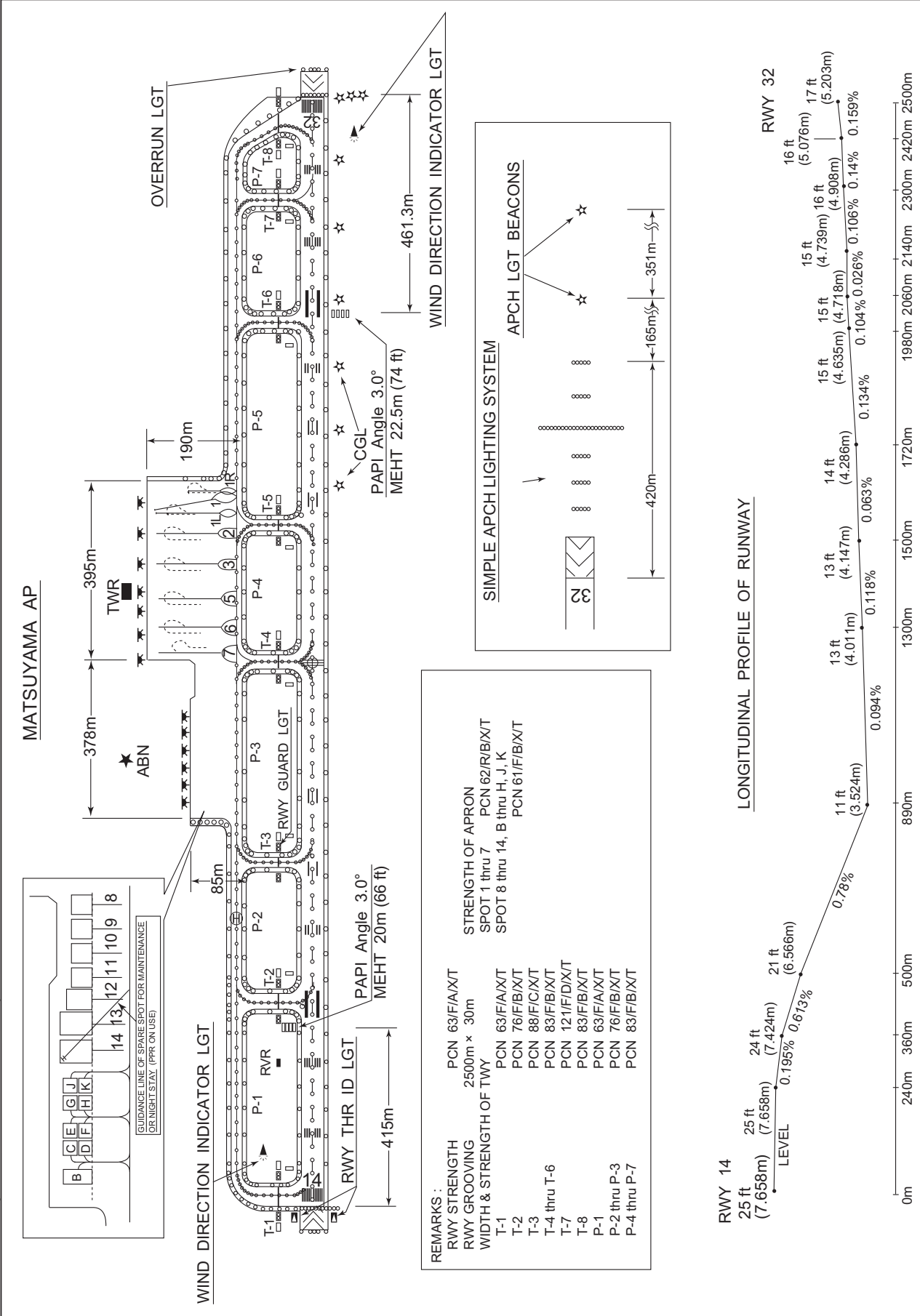


RJOM / MATSUYAMA

AD CHART

CHANGE:Spot 1L,1R installed.Spot 1 relocated.



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

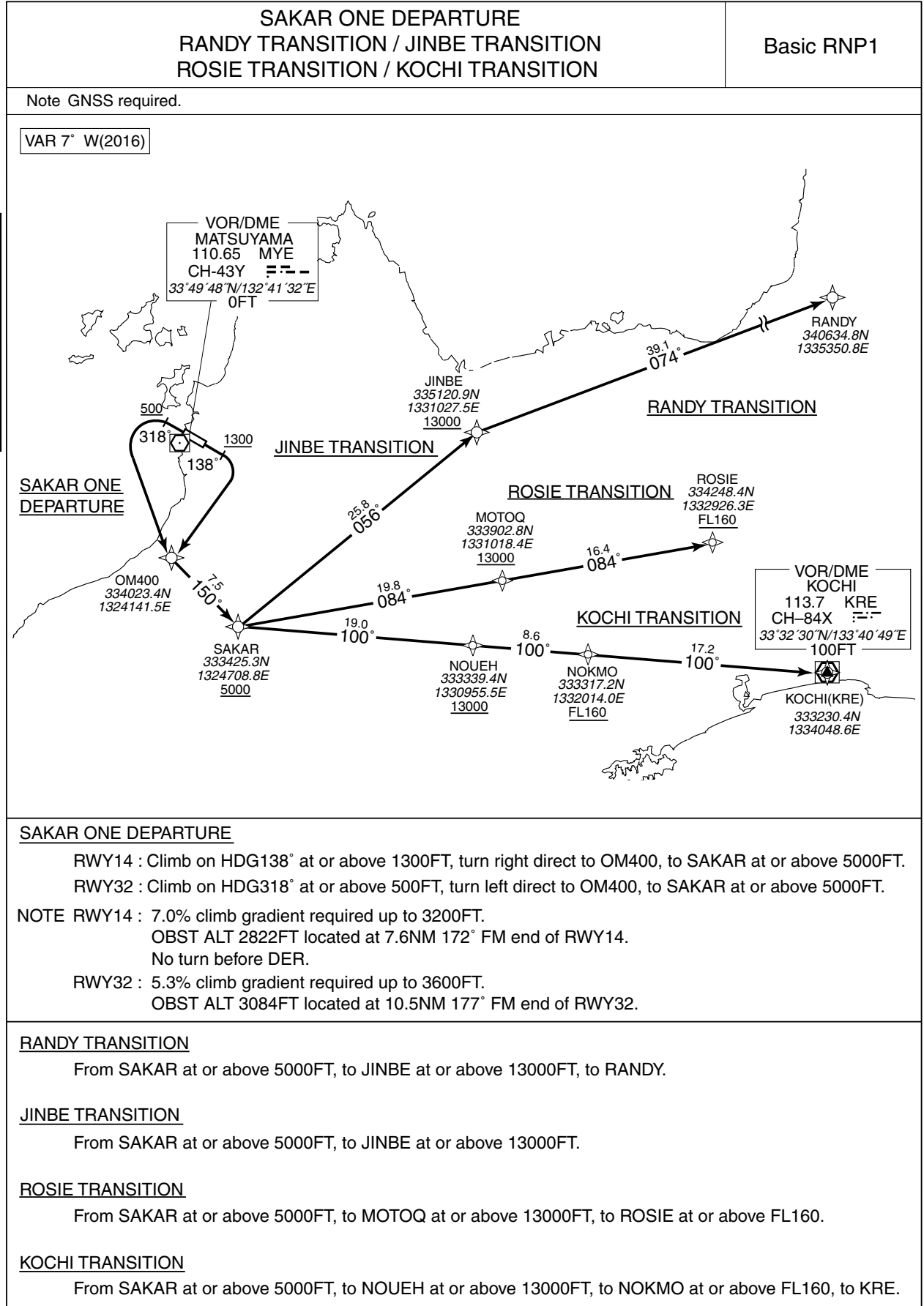
RWY32

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

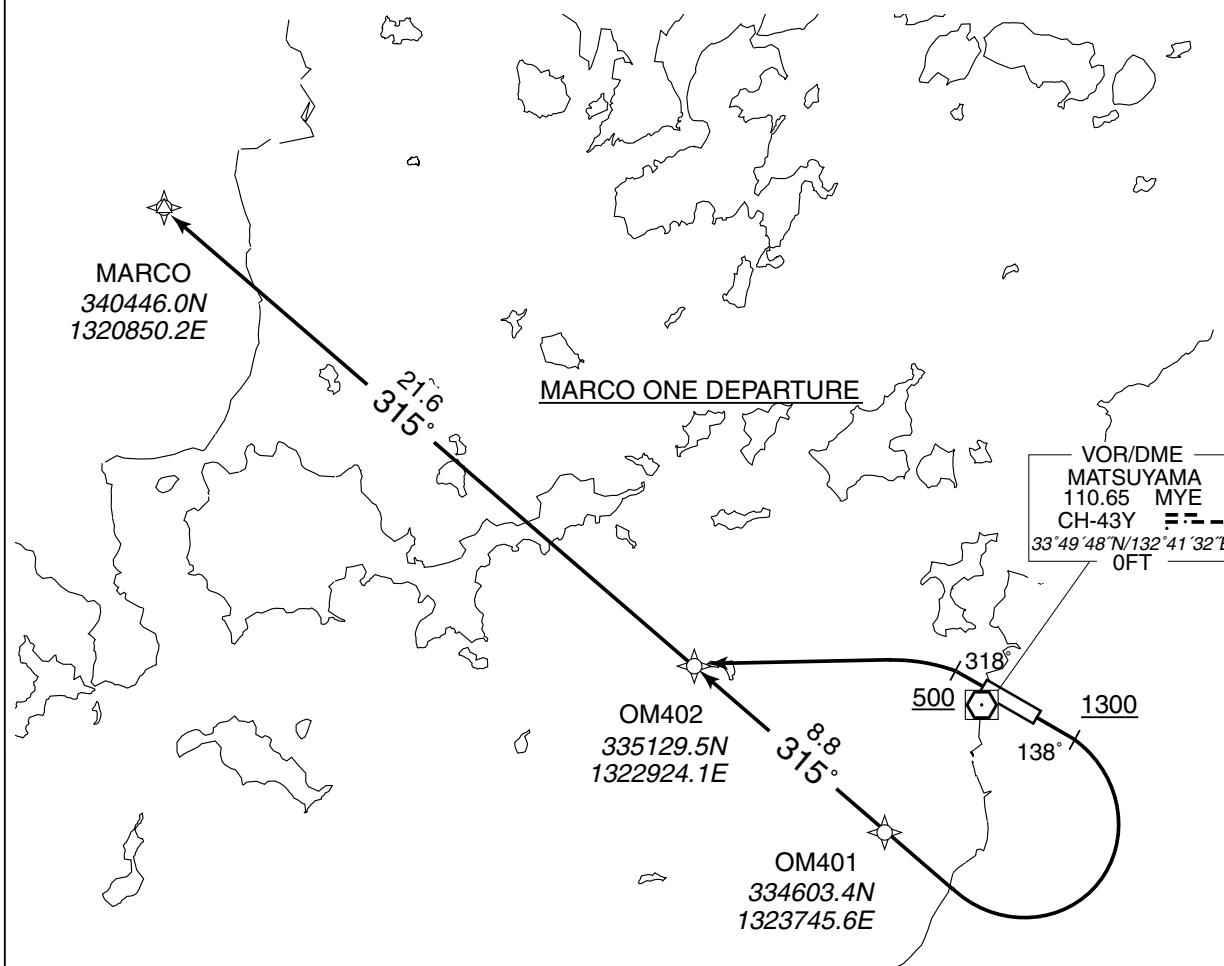
RNAV SID

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

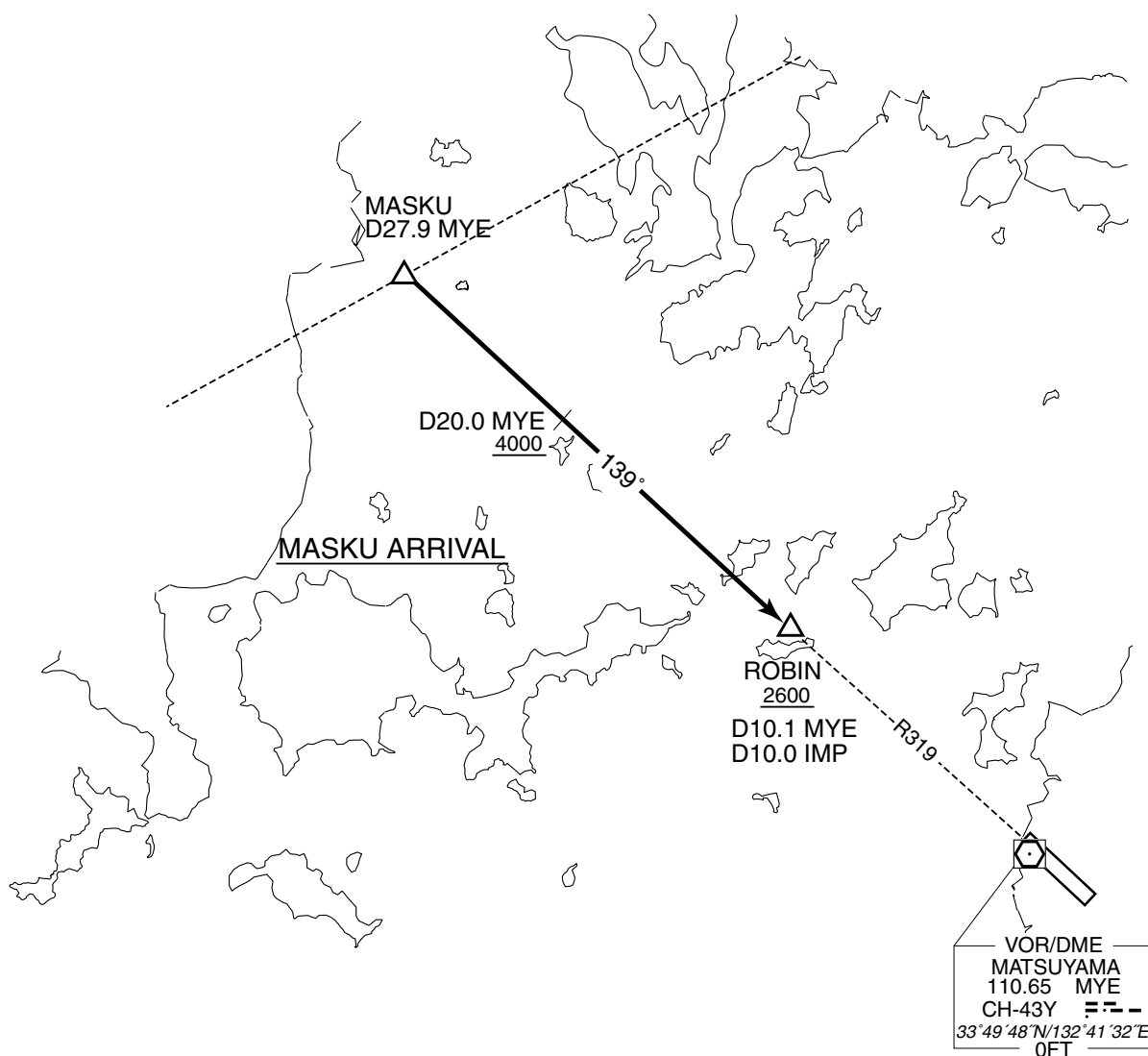
STANDARD ARRIVAL CHART - INSTRUMENT

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
--------------------	------------

Note GNSS required.

VAR 7°W (2016)



STANDARD ARRIVAL CHART -INSTRUMENT

RJOM / MATSUYAMA

RNAV STAR RWY14

ROBIN WEST ARRIVAL

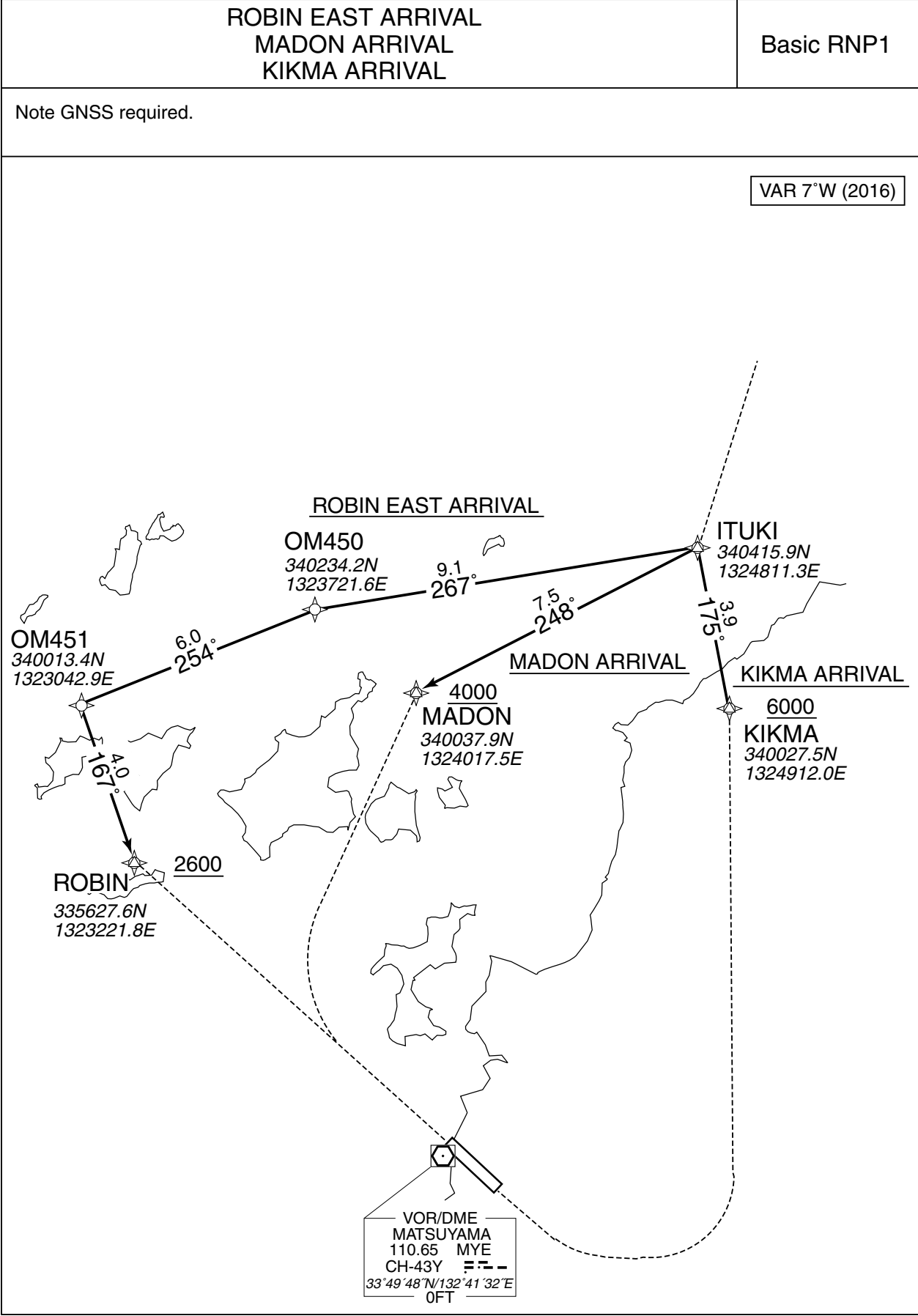
From MARCO, to ROMAN at or above 4000FT, to ROBIN at or above 2600FT.

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

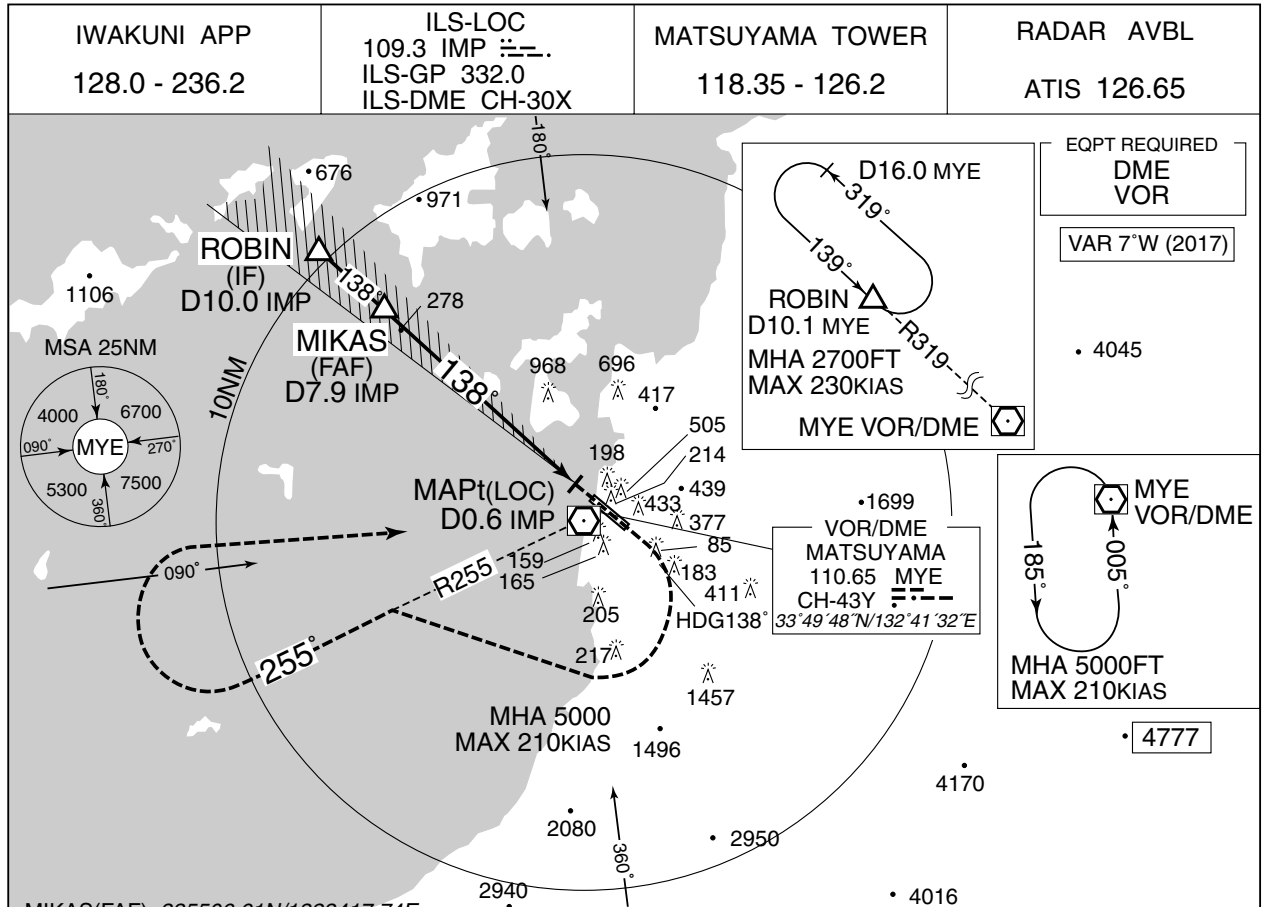
From ITUKI, to KIKMA at or above 6000FT.

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

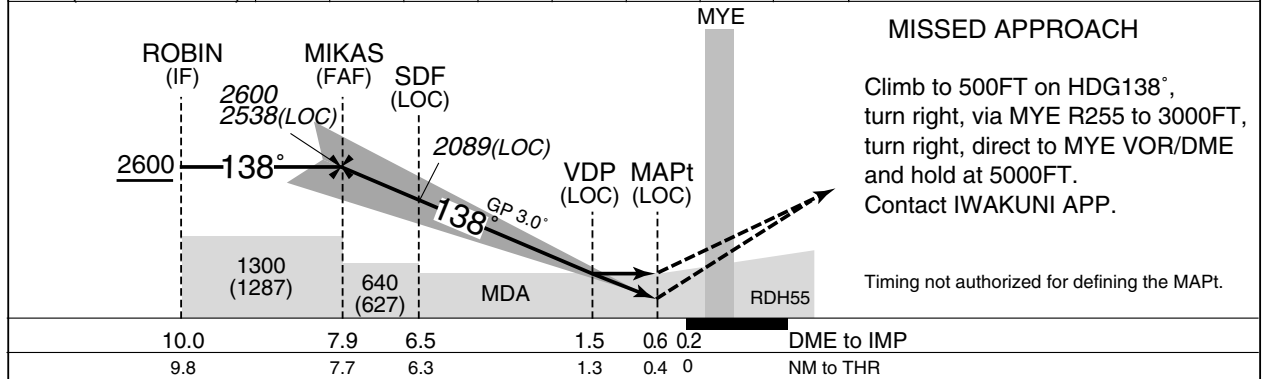
INSTRUMENT APPROACH CHART

RJOM / MATSUYAMA

ILS Z or LOC Z RWY14



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%.

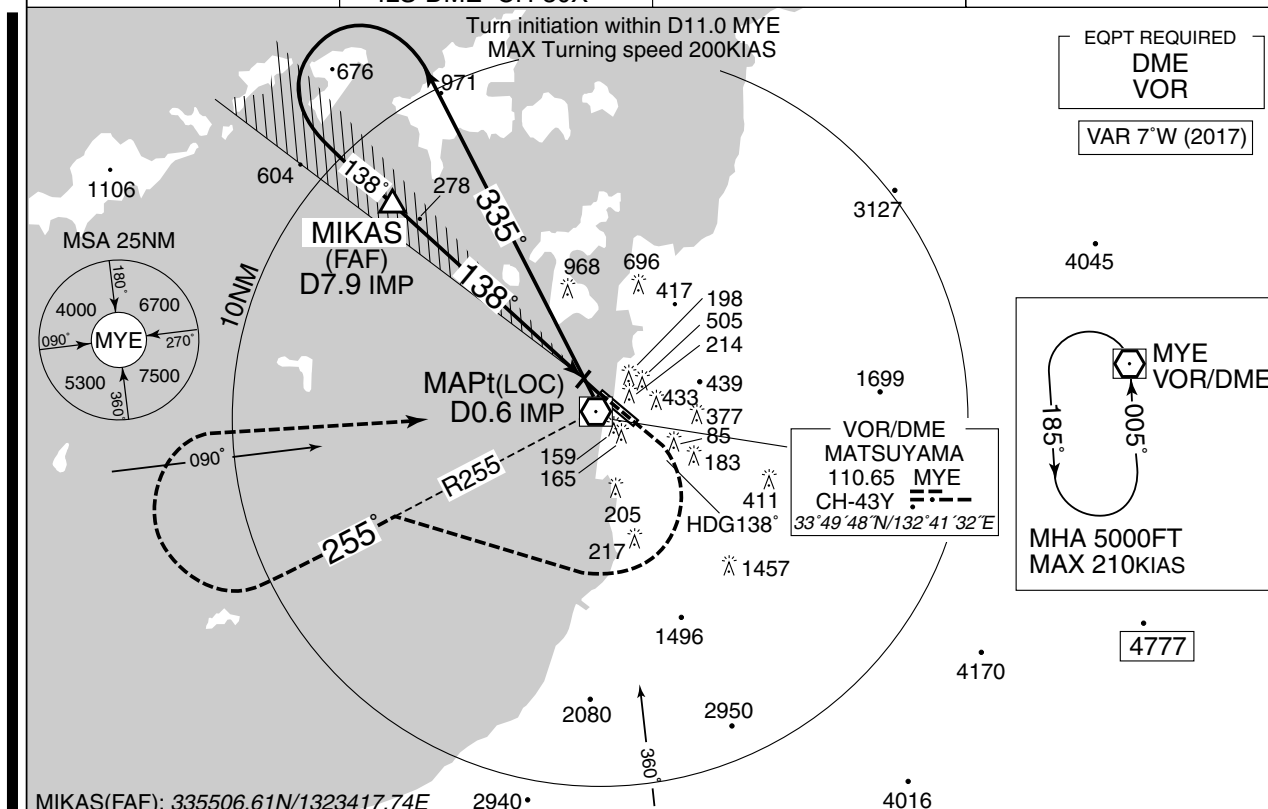
MINIMA		THR elev. 25		AD elev. 13		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	225 (200)	1000	470 (457)	1500	520 (507)	1600
B						2400
C				2000	570 (557)	
D						

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

INSTRUMENT APPROACH CHART

RJOM / MATSUYAMA

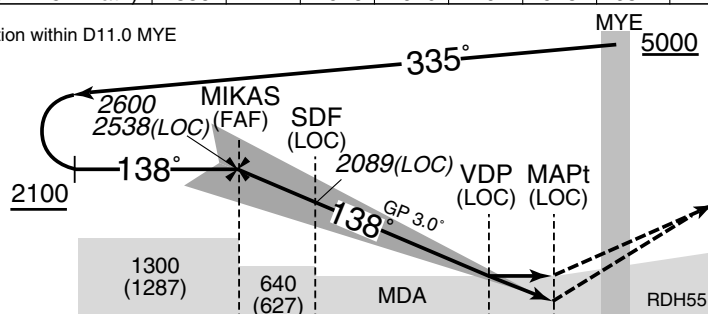
ILS Y or LOC Y RWY14

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

MIKAS(FAF): 335506.61N/1323417.74E

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 5000FT 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%.

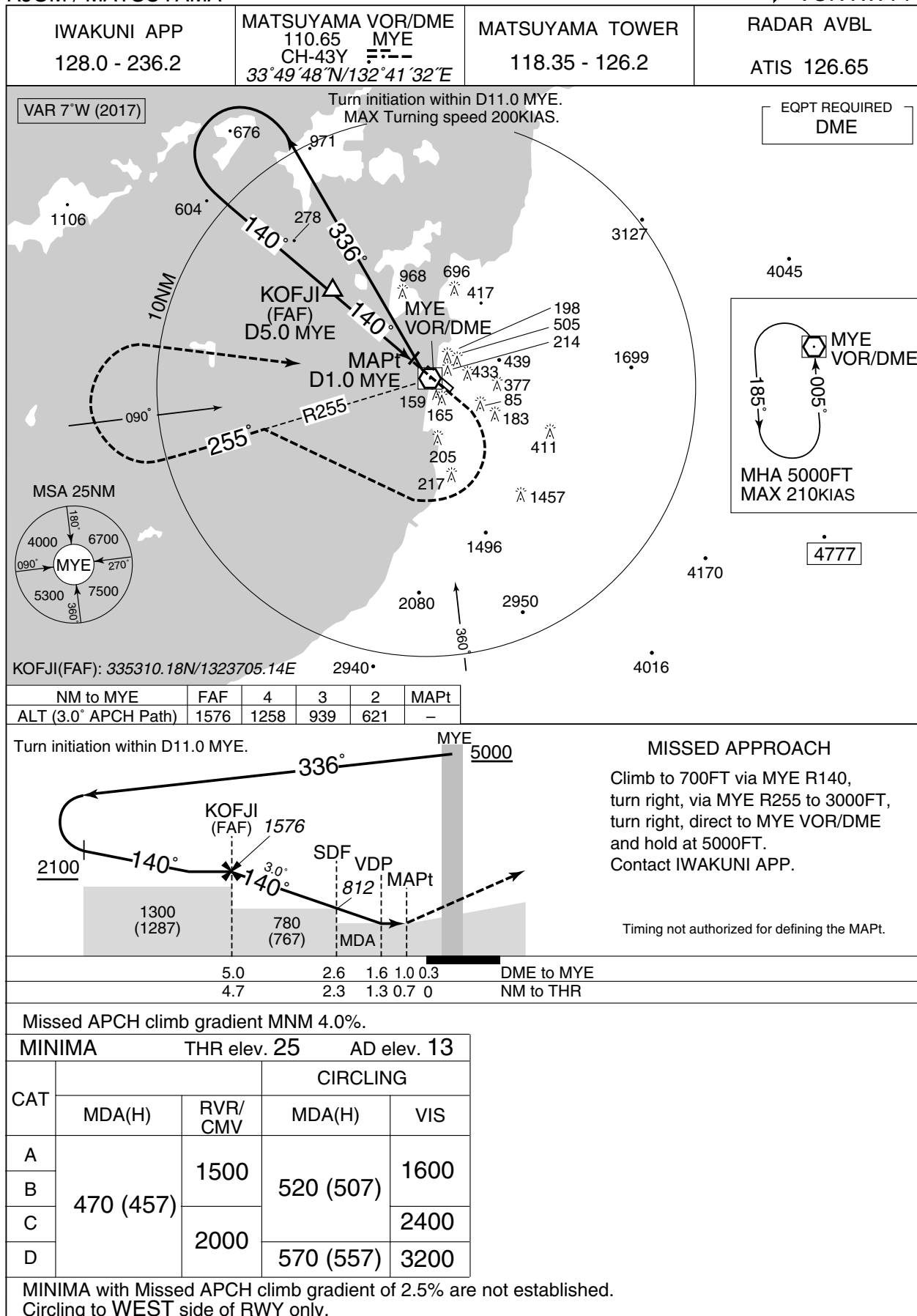
MINIMA		THR elev. 25		AD elev. 13	
CAT	CAT I		LOC		CIRCLING
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H) VIS
A	225 (200)	1000	470 (457)	1500	520 (507) 1600
B					
C				2000	570 (557) 2400
D					

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 - 126.2	RADAR 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)

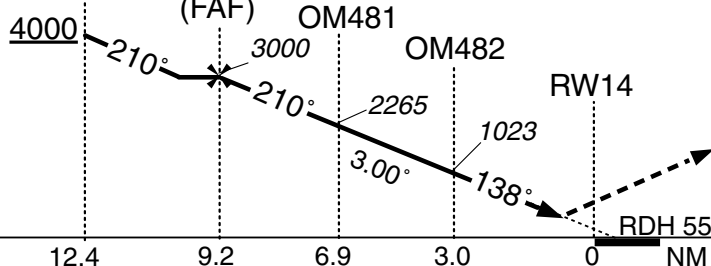
OM481

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		

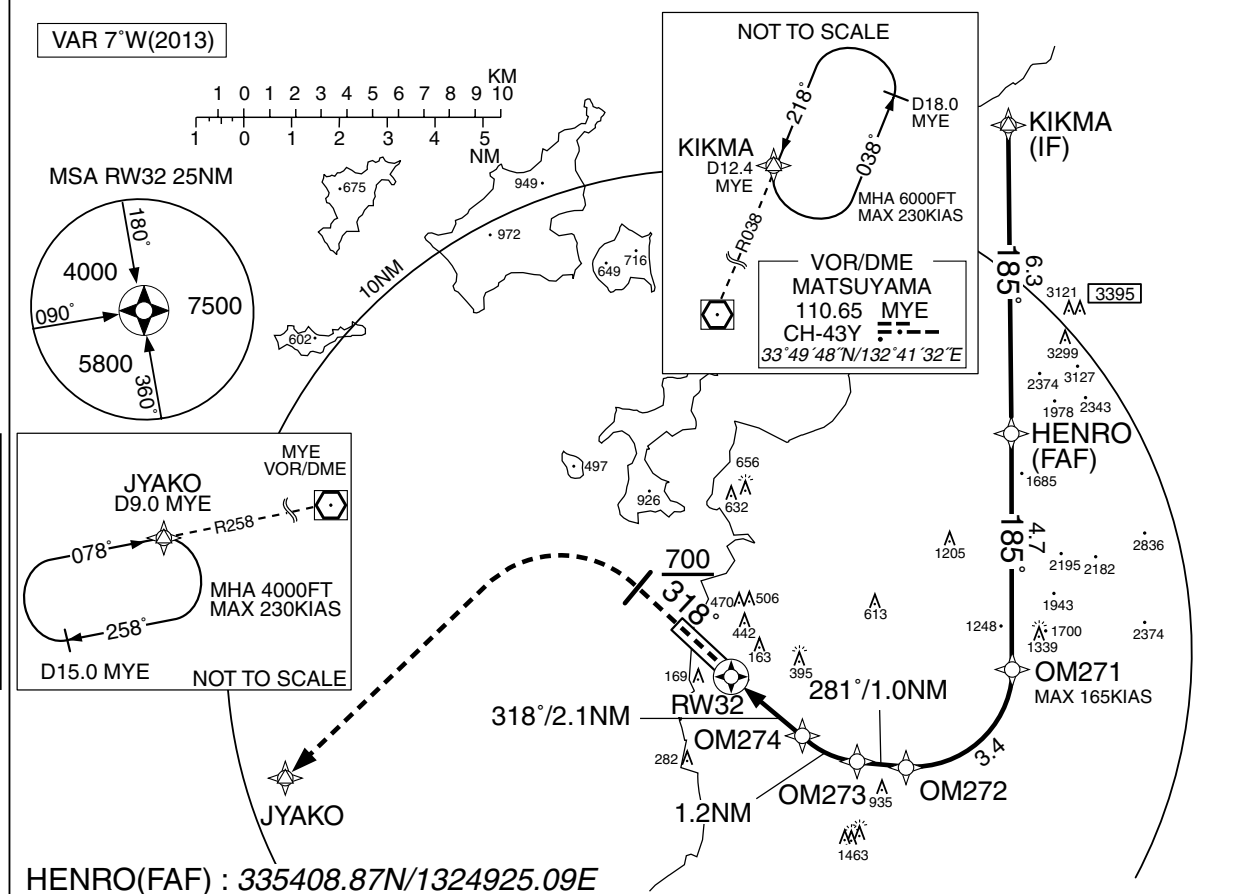
INSTRUMENT APPROACH CHART

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
------------------------------	----------------------	-----------------------------------	---------------------------

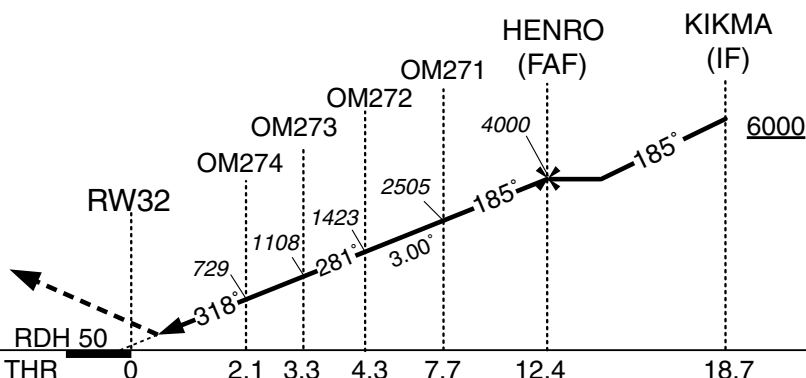
For uncompensated Baro-VNAV systems, procedure not authorized below -5°C / above 50°C



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

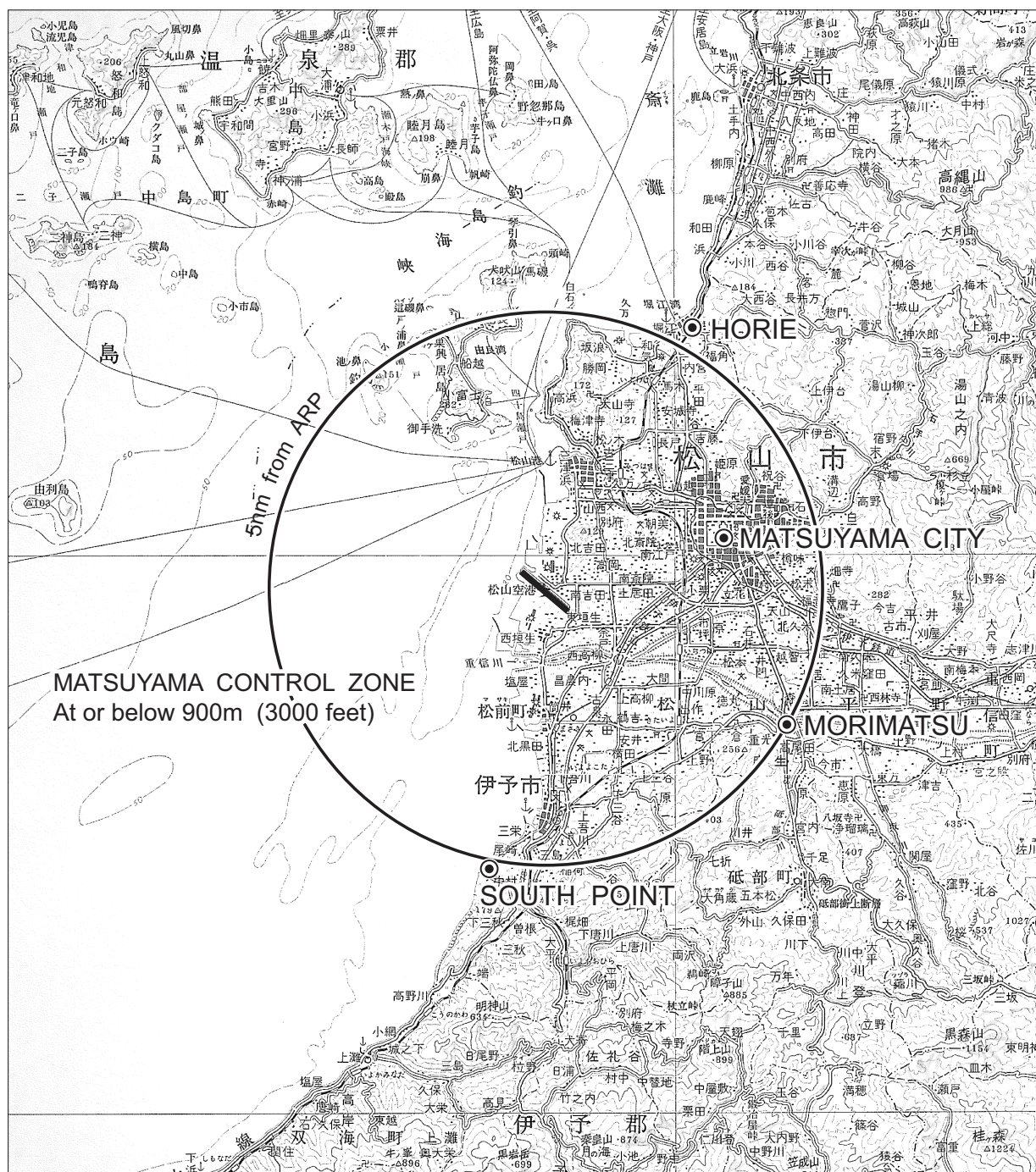
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/RDH (°/FT)	RNP Value
001	IF	KIKMA	—	—	-7.1	—	—	+6000	—	—	—
002	TF	HENRO	—	185 (178.4)	-7.1	6.3	—	4000	—	—	1.0
003	TF	OM271	—	185 (178.4)	-7.1	4.7	—	2505	-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