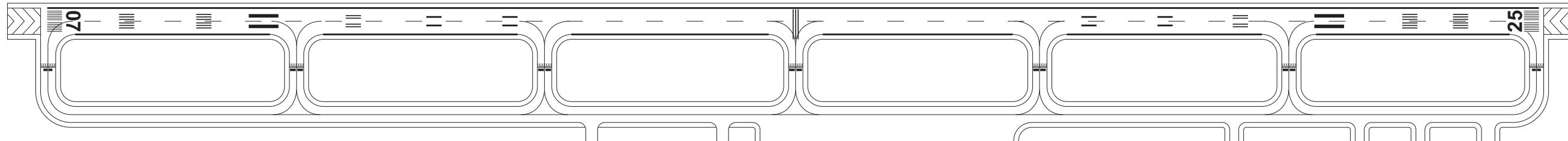
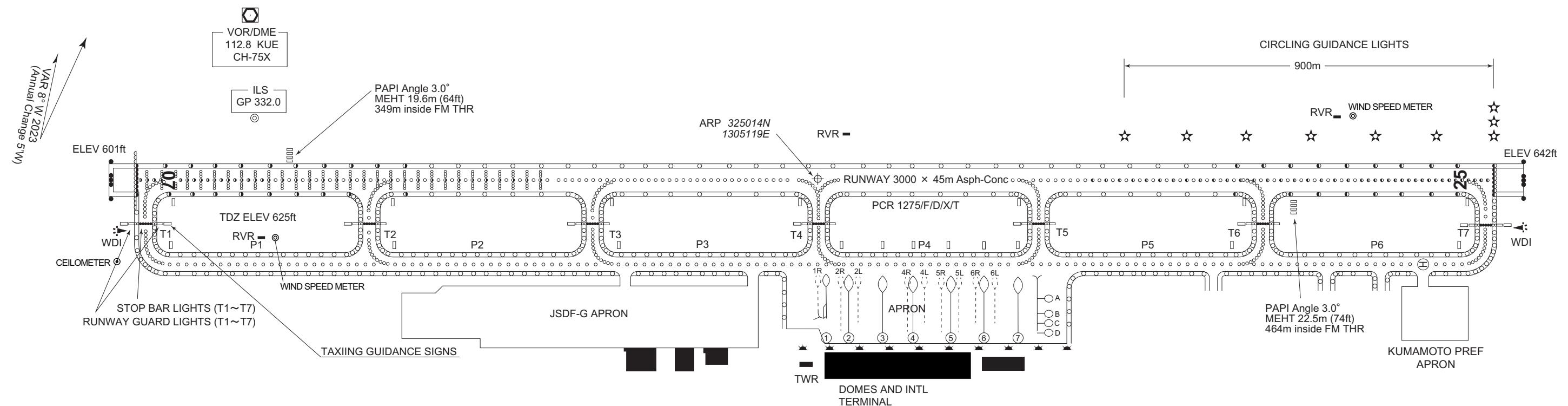


AERODROME CHART

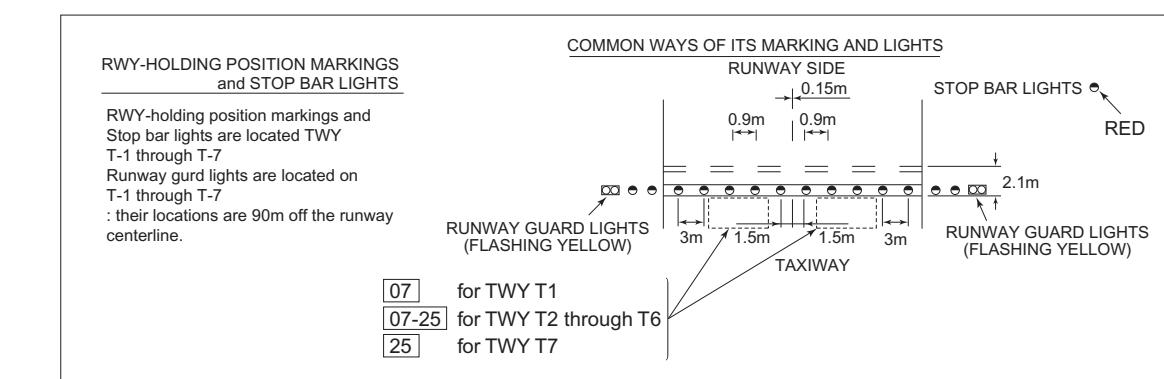
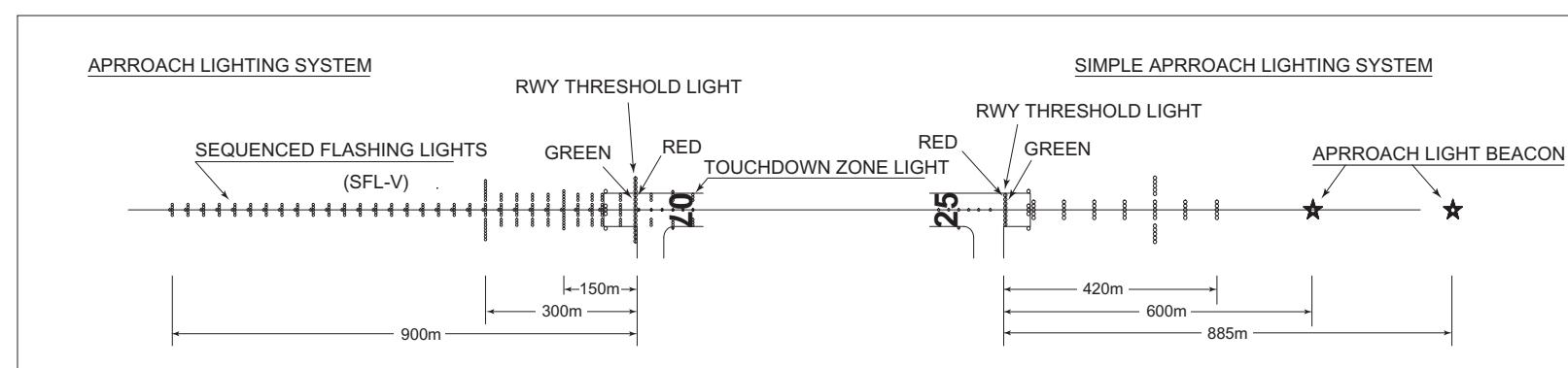
KUMAMOTO AIRPORT
ELEV 192.7m(632ft)



MARKING AIDS

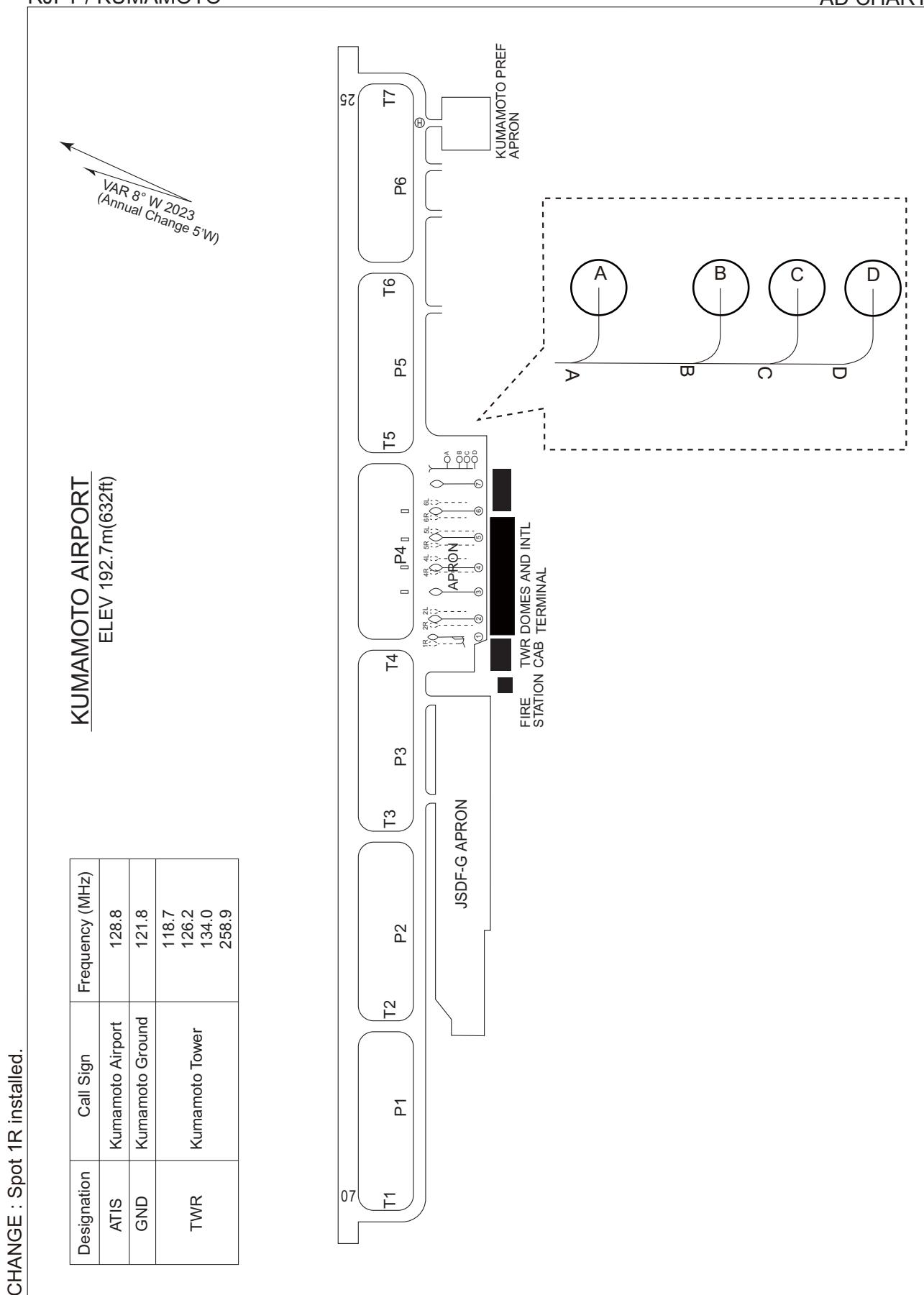


CHANGE : Spot 1R installed.



RJFT / KUMAMOTO

AD CHART



AERODROME OBSTACLE CHART-ICAO TYPE A (OPERATING LIMITATIONS)

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

MAGNETIC VARIATION 8° W(2023)

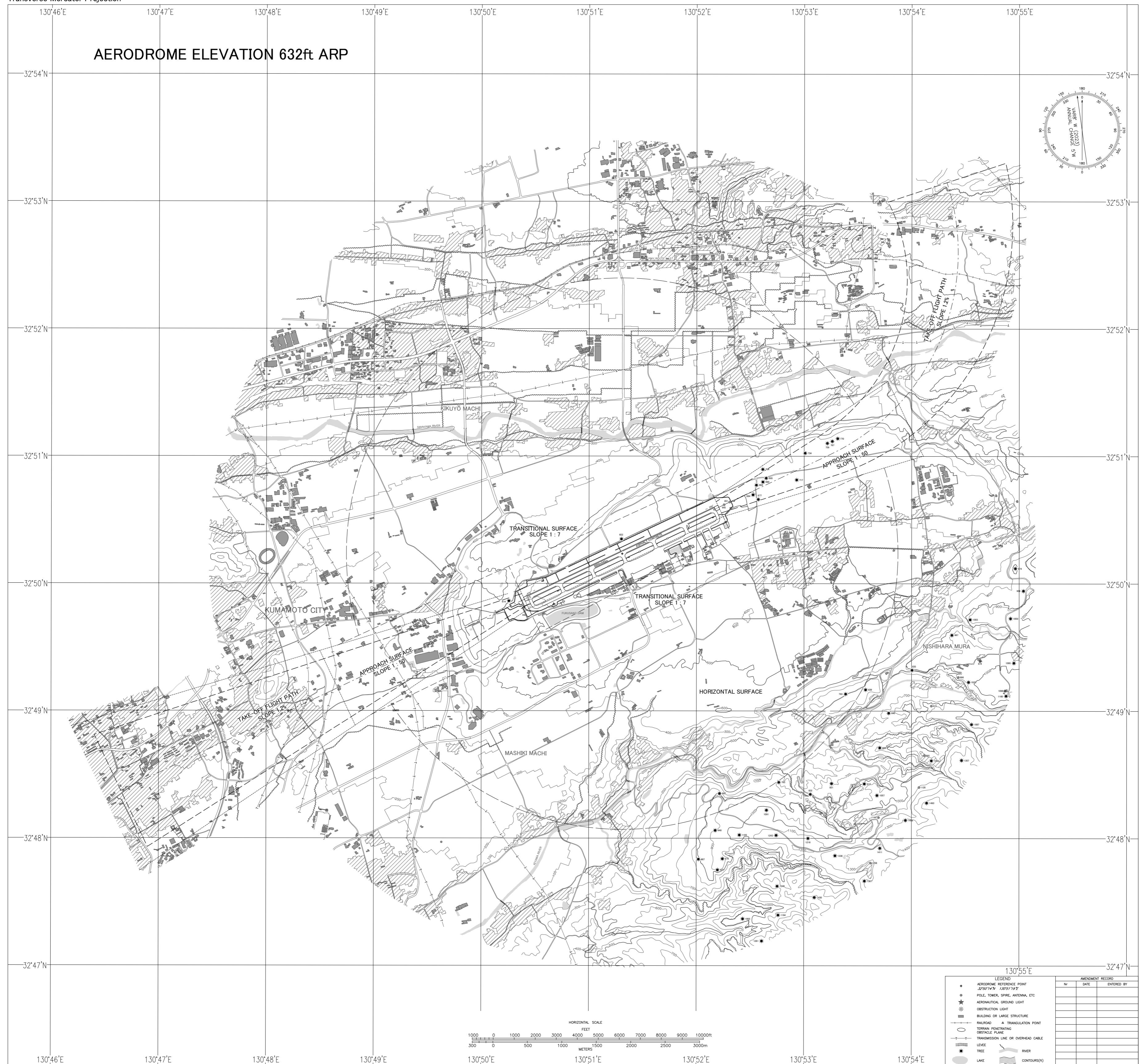


AERODROME OBSTACLE CHART-ICAO TYPE B

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

Transverse Mercator Projection

AERODROME ELEVATION 632ft ARP



CHANGE : Update

PRECISION APPROACH TERRAIN CHART-ICAO



STANDARD DEPARTURE CHART-INSTRUMENT

RJFT / KUMAMOTO

SID and TRANSITION

KUMAMOTO REVERSAL SEVEN DEPARTURE

- RWY25 : Climb via KUE R251 to 3.0DME, turn left,...
RWY07 : Turn left, proceed direct to KUE VOR/DME,...
...climb via KUE R206 to RINDO, turn left to intercept and proceed via KUE R186 to KUE VOR/DME.
Cross RINDO at or above 7000FT, cross KUE R186/8.0DME at or above FL140.

Note RWY07 : 5.7% climb gradient required up to 2700FT.
OBST ALT 2362FT located at 6.0NM 034° FM end of RWY07.

RINDO FIVE DEPARTURE

- RWY25 : Climb via KUE R251 to 3.0DME, turn left,...
RWY07 : Turn left, proceed direct to KUE VOR/DME,...
...climb via KUE R206 to RINDO.
Cross RINDO at or above 7000FT.

Note RWY07 : 5.7% climb gradient required up to 2700FT.
OBST ALT 2362FT located at 6.0NM 034° FM end of RWY07.

MIYAZAKI TRANSITION

From over RINDO, turn left, proceed via KUE 25.0DME counterclockwise ARC to intercept and proceed via KUE R159/MZE R339 (MRA 8000FT) to MZE VOR/DME.

KAGOSHIMA TRANSITION

From over RINDO, turn left, proceed via HKC 45.0DME clockwise ARC to intercept and proceed via HKC R039 (MRA 9000FT) to HKC VORTAC.

MUSASHI TRANSITION

From over RINDO, turn left, proceed via KUE 25.0DME counterclockwise ARC to intercept and proceed via TFE R211 (MRA FL150) to TFE VOR/DME.

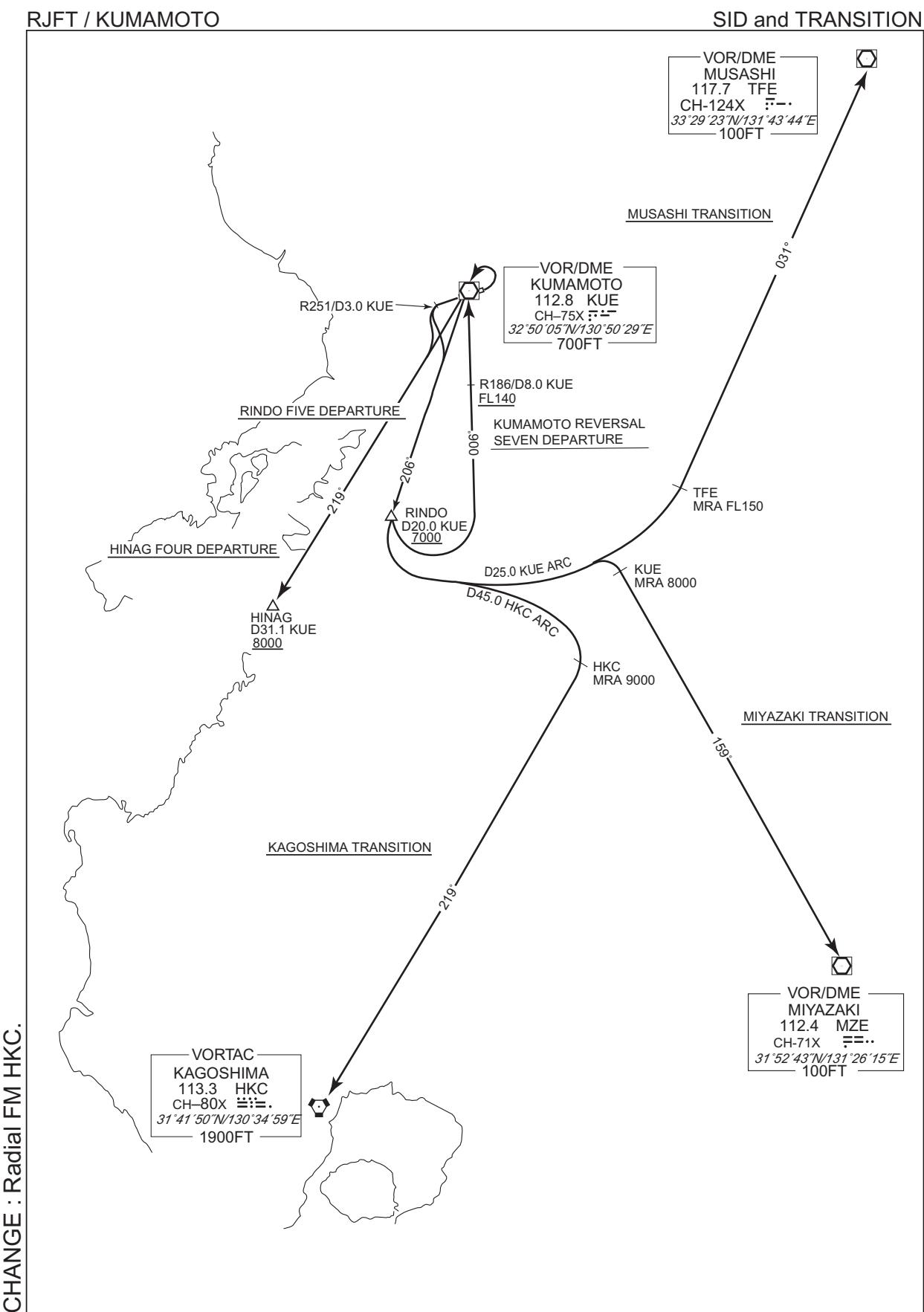
HINAG FOUR DEPARTURE

- RWY25 : Climb via KUE R251 to 3.0DME, turn left,...
RWY07 : Turn left, proceed direct to KUE VOR/DME,...
...climb via KUE R219 to HINAG.

Cross HINAG at or above 8000FT.
Note RWY07 : 5.7% climb gradient required up to 2700FT.
OBST ALT 2362FT located at 6.0NM 034° FM end of RWY07.

CHANGE : Radial FM HKC.

STANDARD DEPARTURE CHART-INSTRUMENT



STANDARD DEPARTURE CHART-INSTRUMENT

RJFT / KUMAMOTO

SID

IRUKA TWO DEPARTURE

RWY07 : Turn left, direct to KUE VOR/DME,...

RWY25 : Climb via KUE R251 to 3.0DME, turn left,...
...climb via KUE R228 to IRUKA.
Cross IRUKA at or above 4000FT.

Note RWY07 : 5.7% climb gradient required up to 2700FT.

OBST ALT 2362FT located at 6.0NM 034° FM end of RWY07.

CHANGE : Description of PROC name.



STANDARD DEPARTURE CHART-INSTRUMENT

RJFT / KUMAMOTO

RNAV SID and TRANSITION

MIFNE ONE DEPARTURE
DONAR TRANSITION / MATSUYAMA TRANSITION
KIRISHIMA TRANSITION / NICHINAN TRANSITION

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

KIRISHIMA TRANSITION
MZE : 14.0NM to HKC - HKC

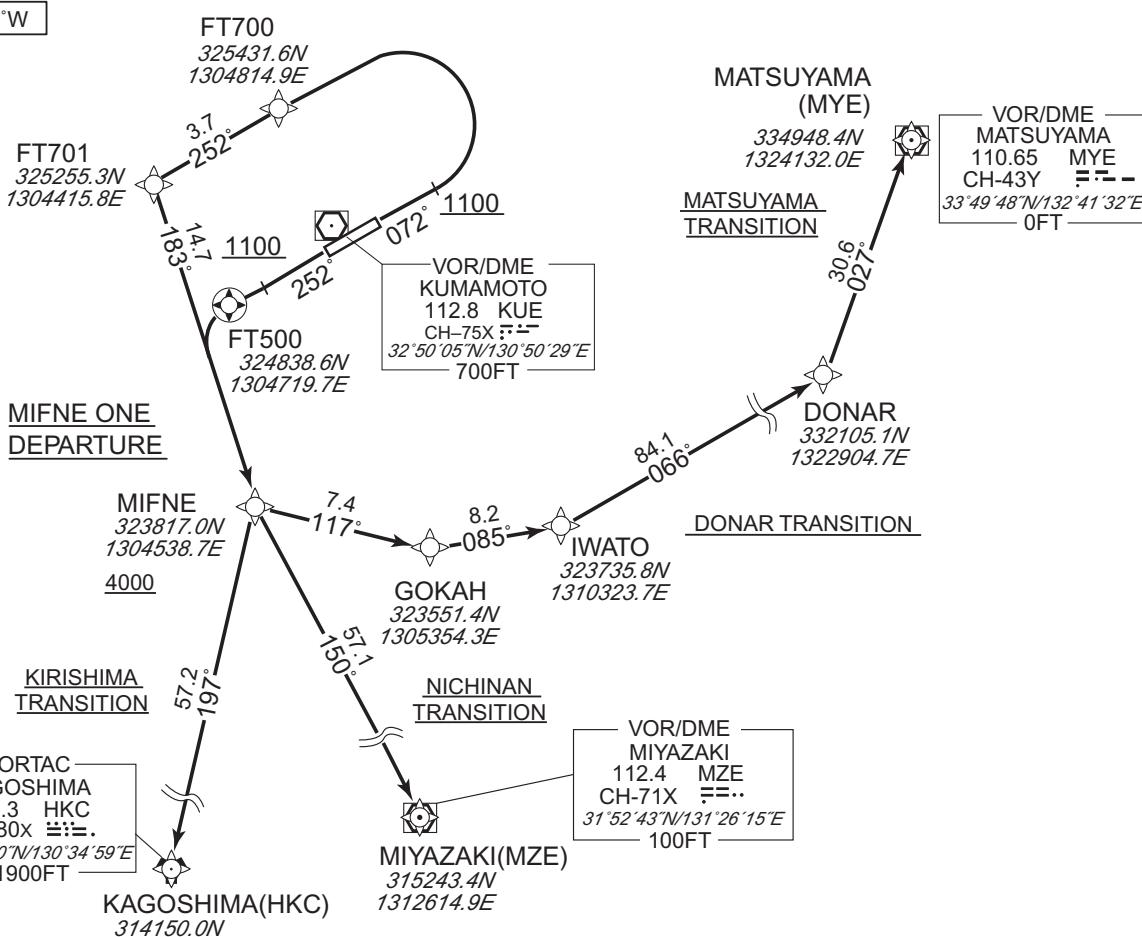
DME GAP

RWY07 : DER - FT701
RWY25 : DER - FT500

Inappropriate Navaids

See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

VAR 8°W

**MIFNE ONE DEPARTURE**

RWY07 : Climb on HDG072° at or above 1100FT, turn left direct to FT700, to FT701, to MIFNE at or above 4000FT.

RWY25 : Climb on HDG252° at or above 1100FT, direct to FT500, turn left direct to MIFNE at or above 4000FT.

Note : RWY07 : 5.7% climb gradient required up to 2700FT.

OBST ALT 2362FT located at 6.0NM 034° FM end of RWY07.

DONAR TRANSITION

From MIFNE at or above 4000FT, to GOKAH, to IWATO, to DONAR.

MATSUYAMA TRANSITION

From MIFNE at or above 4000FT, to GOKAH, to IWATO, to DONAR, to MYE.

KIRISHIMA TRANSITION

From MIFNE at or above 4000FT, to HKC.

NICHINAN TRANSITION

From MIFNE at or above 4000FT, to MZE.

CHANGE : VAR. PROC course.

STANDARD DEPARTURE CHART-INSTRUMENT

RJFT / KUMAMOTO											RNAV SID and TRANSITION		
MIFNE ONE DEPARTURE													
RWY07													
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	-	-	072 (064.5)	-7.6	-	-	+1100	-	-	RNAV1		
002	DF	FT700	-	-	-7.6	-	L	-	-	-	RNAV1		
003	TF	FT701	-	252 (244.4)	-7.6	3.7	-	-	-	-	RNAV1		
004	TF	MIFNE	-	183 (175.5)	-7.6	14.7	-	+4000	-	-	RNAV1		
RWY25													
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	-	-	252 (244.5)	-7.6	-	-	+1100	-	-	RNAV1		
002	DF	FT500	Y	-	-7.6	-	-	-	-	-	RNAV1		
003	DF	MIFNE	-	-	-7.6	-	L	+4000	-	-	RNAV1		
DONAR 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	MIFNE	-	-	-7.6	-	-	+4000	-	-	RNAV1		
002	TF	GOKAH	-	117 (109.2)	-7.6	7.4	-	-	-	-	RNAV1		
003	TF	IWATO	-	085 (077.7)	-7.6	8.2	-	-	-	-	RNAV1		
004	TF	DONAR	-	066 (058.4)	-7.6	84.1	-	-	-	-	RNAV1		
MATSUYAMA 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	MIFNE	-	-	-7.6	-	-	+4000	-	-	RNAV1		
002	TF	GOKAH	-	117 (109.2)	-7.6	7.4	-	-	-	-	RNAV1		
003	TF	IWATO	-	085 (077.7)	-7.6	8.2	-	-	-	-	RNAV1		
004	TF	DONAR	-	066 (058.4)	-7.6	84.1	-	-	-	-	RNAV1		
005	TF	MYE	-	027 (019.8)	-7.6	30.6	-	-	-	-	RNAV1		
KIRISHIMA 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	MIFNE	-	-	-7.6	-	-	+4000	-	-	RNAV1		
002	TF	HKC	-	197 (189.1)	-7.6	57.2	-	-	-	-	RNAV1		
NICHINAN 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	MIFNE	-	-	-7.6	-	-	+4000	-	-	RNAV1		
002	TF	MZE	-	150 (142.8)	-7.6	57.1	-	-	-	-	RNAV1		

CHANGE : VAR. PROC course.

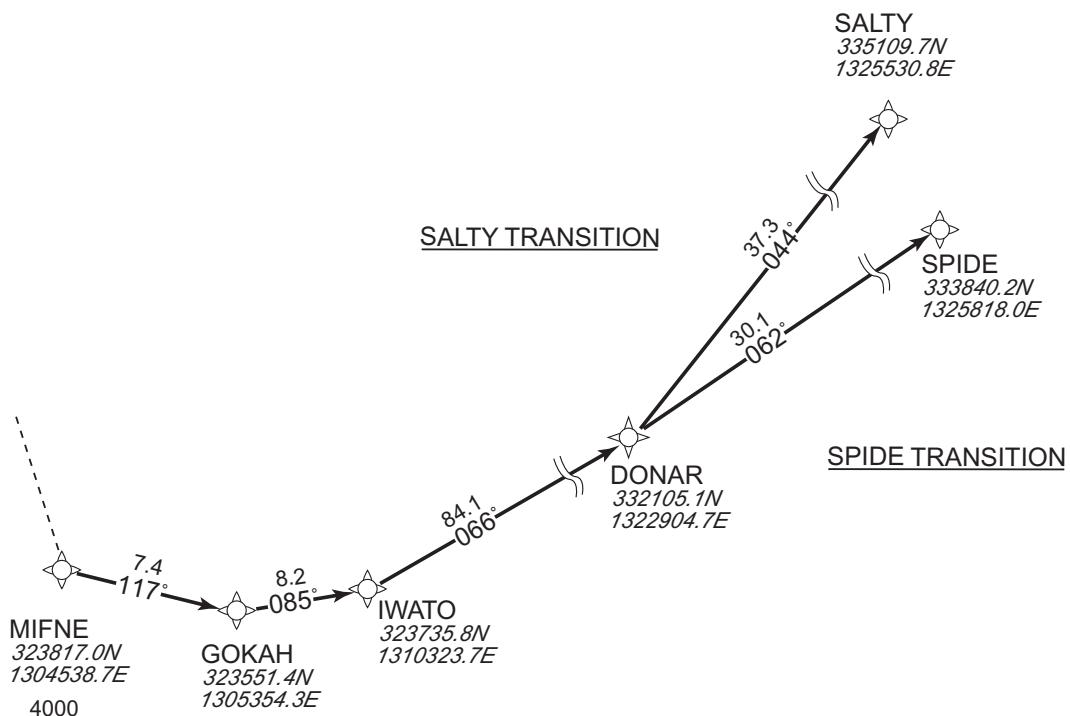
STANDARD DEPARTURE CHART-INSTRUMENT

RJFT / KUMAMOTO

RNAV TRANSITION

SPIDE TRANSITION / SALTY TRANSITION		RNAV 1
Note 1) DME/DME/IRU or GNSS required 2) RADAR service required	Critical DME	—
	DME GAP	—
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

VAR 8° W



CHANGE : VAR. PROC course.

SPIDE TRANSITION

From MIFNE at or above 4000FT, to GOKAH, to IWATO, to DONAR, to SPIDE.

SALTY TRANSITION

From MIFNE at or above 4000FT, to GOKAH, to IWATO, to DONAR, to SALTY.

STANDARD DEPARTURE CHART-INSTRUMENT

RJFT / KUMAMOTO

RNAV TRANSITION

SPIDE 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	MIFNE	-	-	-7.6	-	-	+4000	-	-	RNAV1	
002	TF	GOKAH	-	117 (109.2)	-7.6	7.4	-	-	-	-	RNAV1	
003	TF	IWATO	-	085 (077.7)	-7.6	8.2	-	-	-	-	RNAV1	
004	TF	DONAR	-	066 (058.4)	-7.6	84.1	-	-	-	-	RNAV1	
005	TF	SPIDE	-	062 (054.1)	-7.6	30.1	-	-	-	-	RNAV1	

SALTY 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	MIFNE	-	-	-7.6	-	-	+4000	-	-	RNAV1
002	TF	GOKAH	-	117 (109.2)	-7.6	7.4	-	-	-	-	RNAV1
003	TF	IWATO	-	085 (077.7)	-7.6	8.2	-	-	-	-	RNAV1
004	TF	DONAR	-	066 (058.4)	-7.6	84.1	-	-	-	-	RNAV1
005	TF	SALTY	-	044 (036.1)	-7.6	37.3	-	-	-	-	RNAV1

CHANGE : VAR. PROC course.

STANDARD ARRIVAL CHART-INSTRUMENT

RJFT / KUMAMOTO

STAR

MISMI SOUTH ARRIVAL

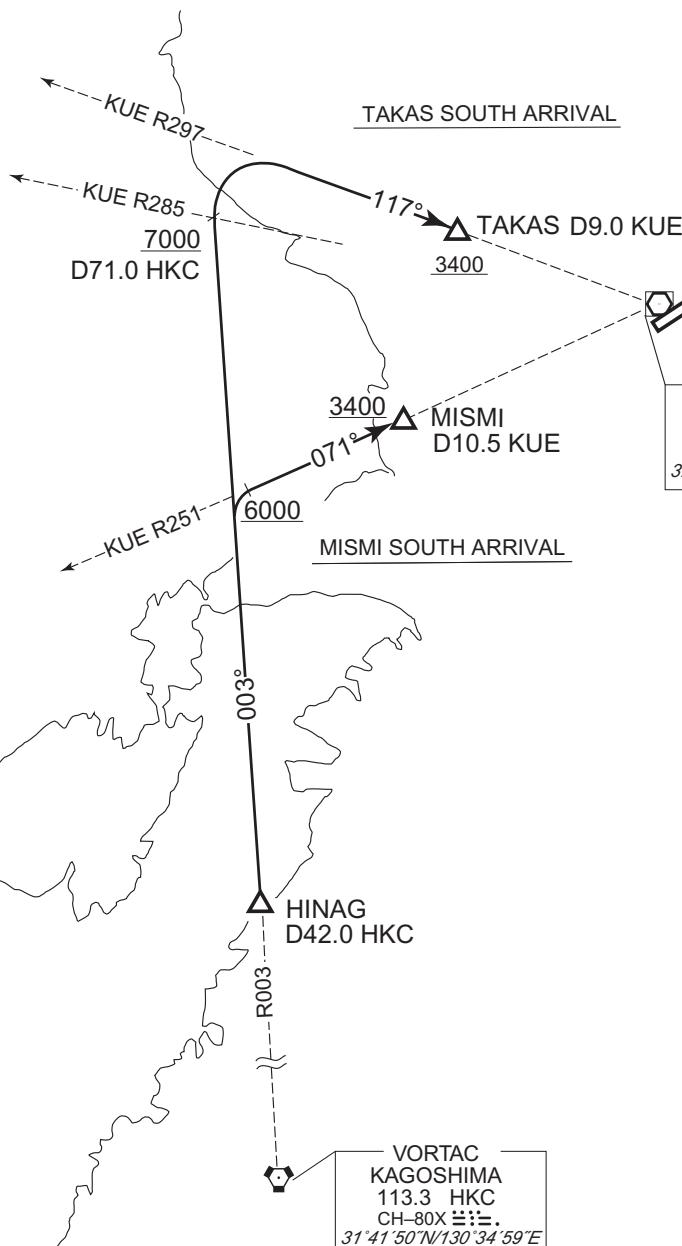
From over HINAG, proceed via HKC R003 to intercept and proceed via KUE R251 to MISMI. Maintain 6000FT or above until intercepting KUE R251, cross MISMI at or above 3400FT.

TAKAS SOUTH ARRIVAL

From over HINAG, proceed via HKC R003 until HKC 71.0DME (KUE R285), turn right to intercept and proceed via KUE R297 to TAKAS.

Cross HKC R003/71.0DME(KUE R285) at or above 7000FT, cross TAKAS at or above 3400FT.

CHANGE : Radial FM HKC. DIST FM HKC(HINAG).



NOT TO SCALE
D14.0 KUE MHA 3400
MAX 220KIAS
297°
117°
TAKAS D9.0 KUE
KUE R297

VOR/DME
KUMAMOTO
112.8 KUE
CH-75X
32°50'05"N/130°50'29"E
700FT

MISMI D10.5 KUE
KUE R251
071°
251° MHA 3400
MAX 230KIAS
D16.0 KUE
NOT TO SCALE

VORTAC
KAGOSHIMA
113.3 HKC
CH-80X
31°41'50"N/130°34'59"E
1900FT

STANDARD ARRIVAL CHART-INSTRUMENT

RJFT / KUMAMOTO

STAR

MISMI EAST ARRIVAL

From over KUE VOR/DME, proceed via KUE R297 to KUE 12.0DME, turn left, proceed via KUE 14.0DME counterclockwise ARC to intercept and proceed via KUE R251 to MISMI.

Cross KUE VOR/DME at or above 6000FT, cross MISMI at or above 3400FT.

TAKAS EAST ARRIVAL

From over KUE VOR/DME, proceed via KUE R251 to KUE 12.0DME, turn right, proceed via KUE 14.0DME clockwise ARC to intercept and proceed via KUE R297 to TAKAS.

Cross KUE VOR/DME at or above 6000FT, cross TAKAS at or above 3400FT.



STANDARD ARRIVAL CHART-INSTRUMENT

RJFT / KUMAMOTO

RNAV STAR RWY07

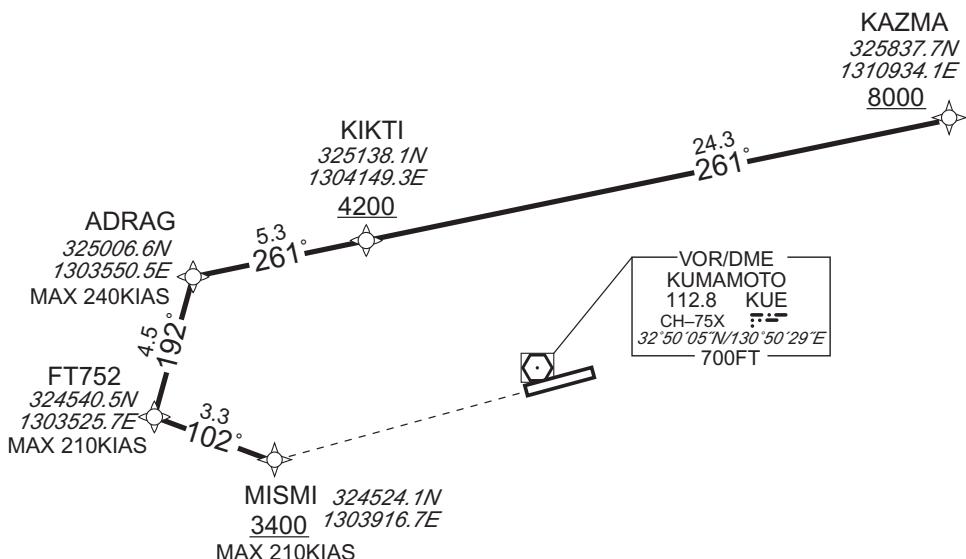
KAZMA ARRIVAL

RNAV1

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

2) RADAR service required.

VAR 8°W



From KAZMA at or above 8000FT, to KIKTI at or above 4200FT, to ADRAG, to FT752, to MISMI at or above 3400FT.

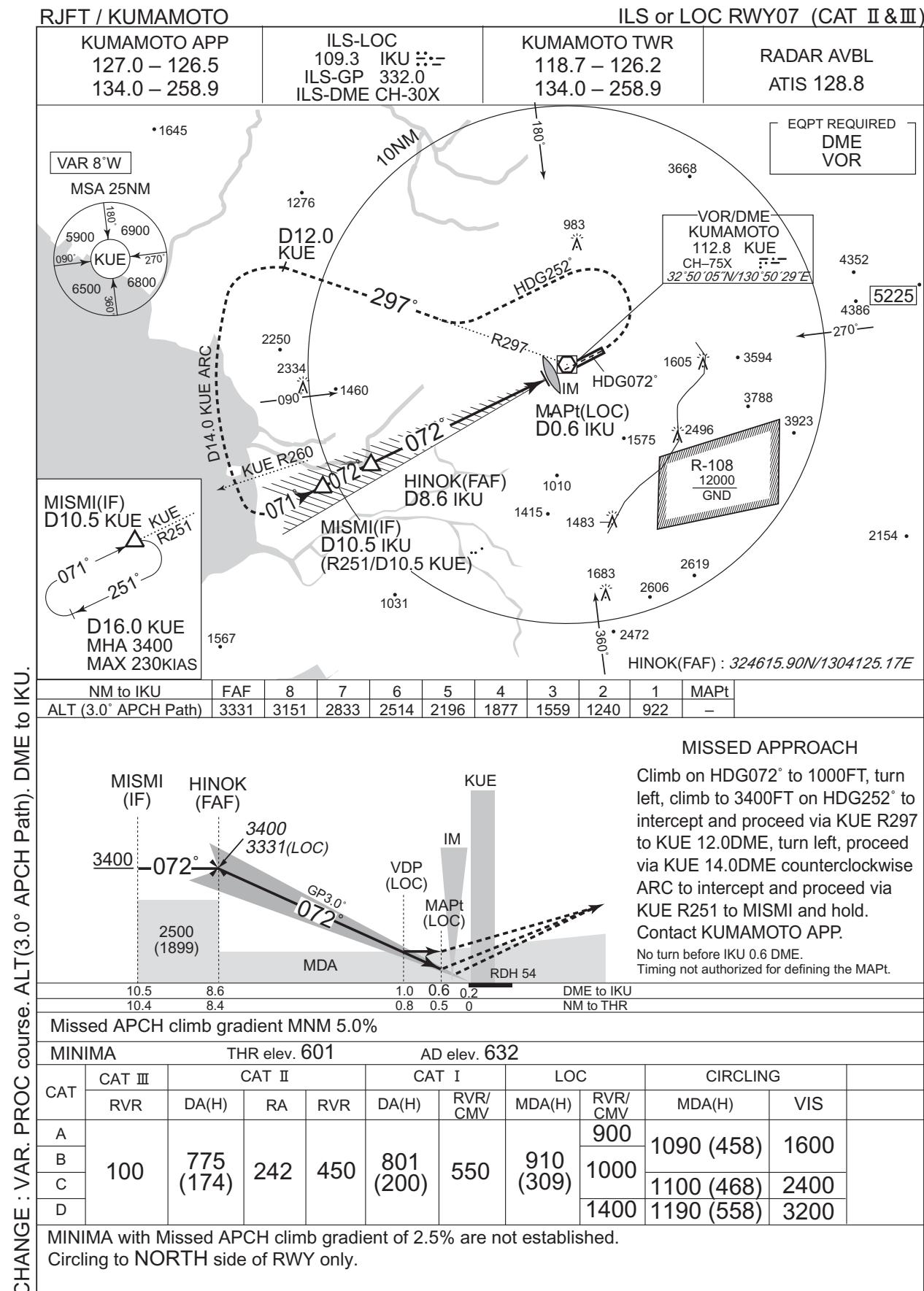
Critical DME	SGE : 20NM to KIKTI – 8NM to KIKTI 5NM to ADRAG – FT752 KUE : 12NM to KIKTI – 8NM to KIKTI 5NM to ADRAG – 2NM to ADRAG
DME GAP Inappropriate Navaids	8NM to KIKTI – 5NM to ADRAG See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.

CHANGE : ADRAG established. FT751 abolished.

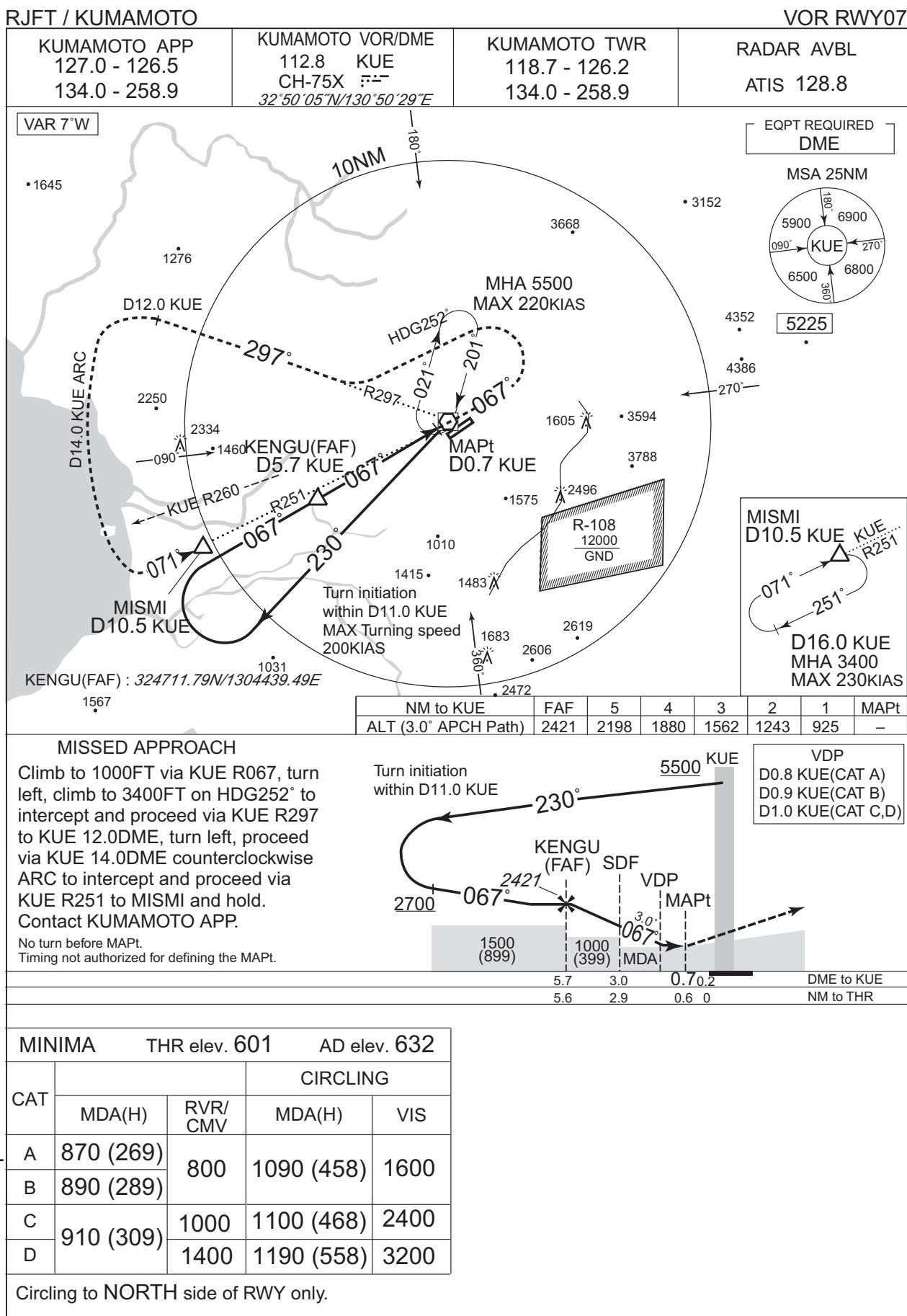
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	KAZMA	–	–	-7.6	–	–	+8000	–	–	RNAV1
002	TF	KIKTI	–	261 (253.4)	-7.6	24.3	–	+4200	–	–	RNAV1
003	TF	ADRAG	–	261 (253.2)	-7.6	5.3	–	–	-240	–	RNAV1
004	TF	FT752	–	192 (184.5)	-7.6	4.5	–	–	-210	–	RNAV1
005	TF	MISMI	–	102 (094.8)	-7.6	3.3	–	+3400	-210	–	RNAV1

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INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



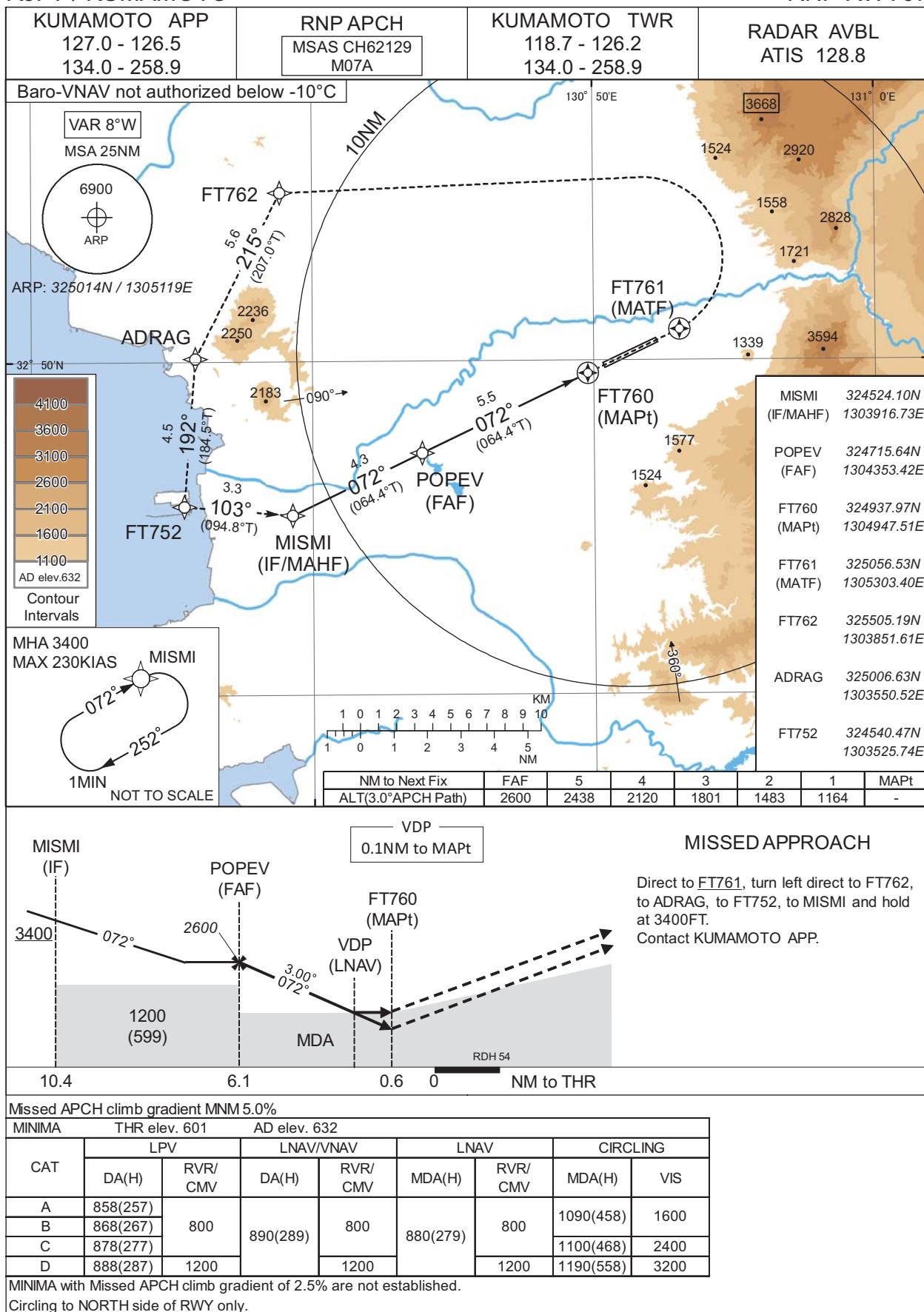
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJFT / KUMAMOTO

RNP RWY07



CHANGE : New PROC

INSTRUMENT APPROACH CHART

RJFT / KUMAMOTO

RNP RWY07

FAS DATA BLOCK

Operation type	0	LTP/FTP ellipsoidal height	+02153
SBAS service provider identifier	2	FPAP latitude	325035.2220N
Airport identifier	RJFT	FPAP longitude	1305210.3335E
Runway	07	Threshold crossing height	00016.4
Approach performance designator	0	TCH units selector	1
Route indicator		Glide path angle	03.00
Reference path data selector	0	Course width at threshold	105.00
Reference path ID	M07A	△ length offset	0000
LTP/FTP latitude	324953.4390N	HAL	40.0
LTP/FTP longitude	1305026.1345E	VAL	50.0
CRC remainder	5C458595		

Required additional data

LTP/FTP orthometric height	182.5
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CHANGE : New PROC.

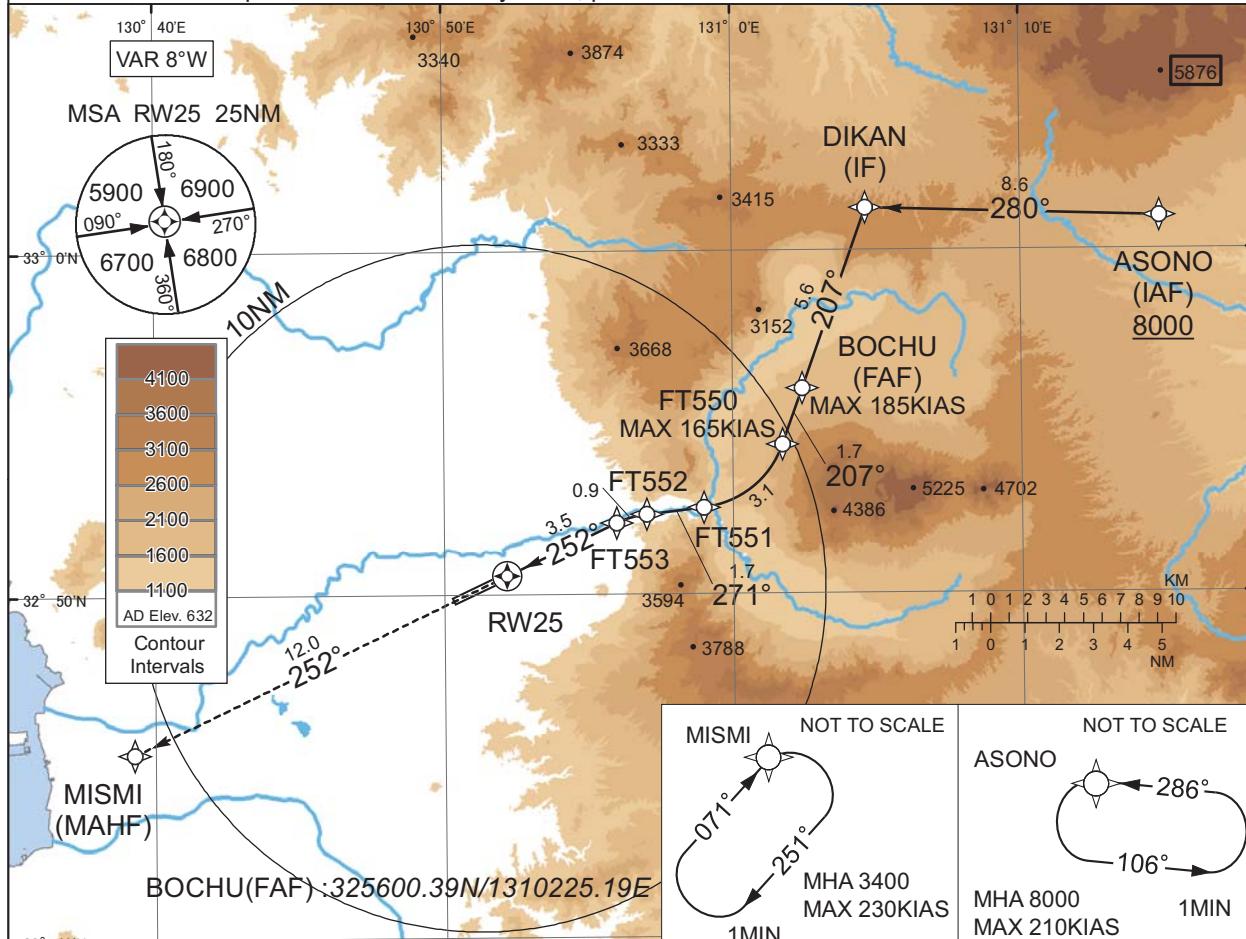
INSTRUMENT APPROACH CHART

RJFT / KUMAMOTO

RNP Z RWY25(AR)

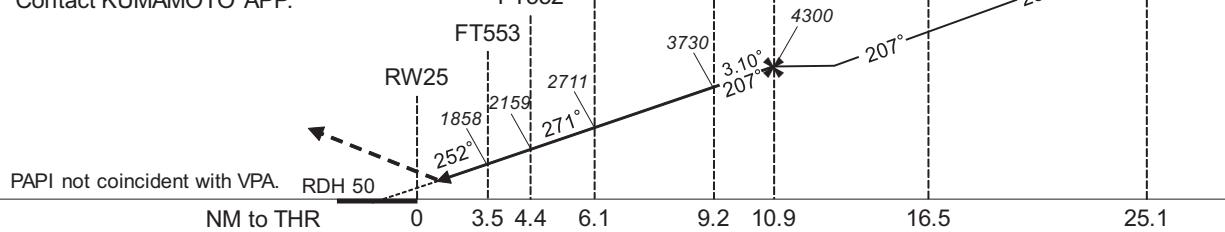
KUMAMOTO APP 127.0 - 126.5 134.0 - 258.9	RNP AR RF required. Night operation only.	KUMAMOTO TWR 118.7 - 126.2 134.0 - 258.9	RADAR AVBL ATIS 128.8
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For uncompensated Baro-VNAV systems, procedure not authorized below 2°C / above 38°C



MISSED APPROACH

Climb to 3400FT, to MISMI
and hold.
Contact KUIMAMOTO, APR



MINIMA	THR elev. 642	AD elev. 632
CAT	RNP 0.30	
	DA(H)	RVR/CMV
A		
B	-	-
C	942(300)	1400
D		1600

Authorization Required

INSTRUMENT APPROACH CHART

RJFT / KUMAMOTO

RNP Z RWY25(AR)

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	ASONO	-	-	-7.6	-	-	+8000	-	-	-
002	TF	DIKAN	-	280 (272.0)	-7.6	8.6	-	-	-	-	1.0
003	TF	BOCHU	-	207 (199.6)	-7.6	5.6	-	4300	-185	-	1.0
004	TF	FT550	-	207 (199.6)	-7.6	1.7	-	3730	-165	-3.10	0.3
005	RF Center: FTRF1 r=2.77NM	FT551	-	-	-7.6	3.1	R	2711	-	-3.10	0.3
006	TF	FT552	-	271 (263.6)	-7.6	1.7	-	2159	-	-3.10	0.3
007	RF Center: FTRF2 r=2.77NM	FT553	-	-	-7.6	0.9	L	1858	-	-3.10	0.3
008	TF	RW25	Y	252 (244.5)	-7.6	3.5	-	692	-	-3.10/50	0.3
009	TF	MISMI	-	252 (244.5)	-7.6	12.0	-	3400	-	-	1.0

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	RNP Value
Hold	ASONO	286 (278.5)	-7.6	1.0 (-14000)	L	8000	FL140	-210 (-14000)	1.0
Hold	MISMI	071 (063.5)	-7.6	1.0 (-14000)	R	3400	FL140	-230 (-14000)	1.0

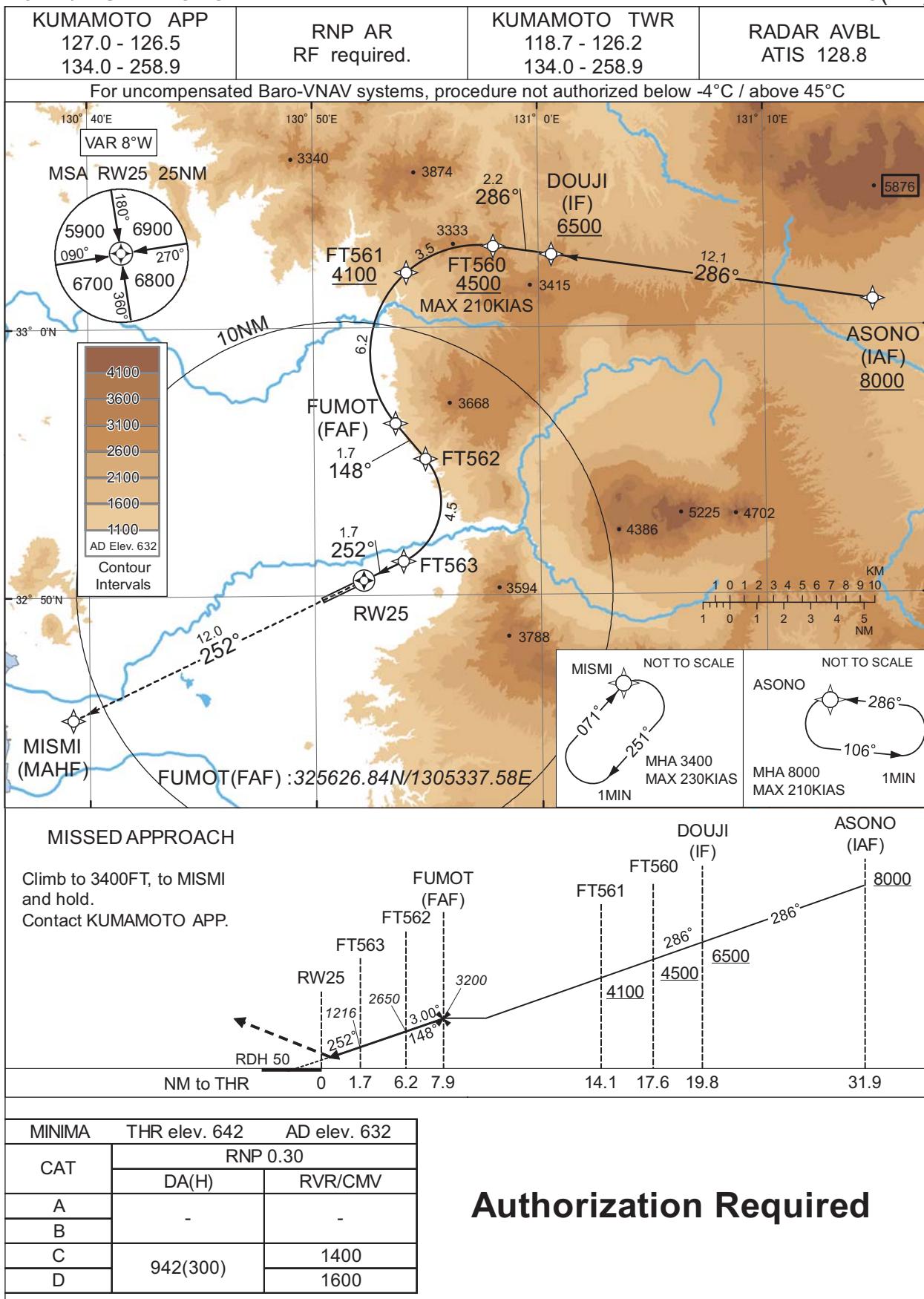
Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
ASONO	330058.11N / 1311449.42E	FTRF1	325518.34N / 1305837.73E
DIKAN	330115.22N / 1310438.68E	FTRF2	324936.20N / 1305722.87E
BOCHU	325600.39N / 1310225.19E		
FT550	325422.38N / 1310143.69E		
FT551	325232.83N / 1305859.64E		
FT552	325221.62N / 1305700.92E		
FT553	325206.61N / 1305558.39E		
RW25	325035.24N / 1305210.28E		
MISMI	324524.10N / 1303916.73E		

INSTRUMENT APPROACH CHART

RJFT / KUMAMOTO

RNP Y RWY25(AR)



INSTRUMENT APPROACH CHART

RJFT / KUMAMOTO

RNP Y RWY25(AR)

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	ASONO	-	-	-7.6	-	-	+8000	-	-	-
002	TF	DOUJI	-	286 (278.4)	-7.6	12.1	-	+6500	-	-	1.0
003	TF	FT560	-	286 (278.3)	-7.6	2.2	-	+4500	-210	-	1.0
004	RF Center: FTRF3 r=4.04NM	FT561	-	-	-7.6	3.5	L	+4100	-	-	1.0
005	RF Center: FTRF3 r=4.04NM	FUMOT	-	-	-7.6	6.2	L	3200	-	-	0.7
006	TF	FT562	-	148 (140.4)	-7.6	1.7	-	2650	-	-3.00	0.3
007	RF Center: FTRF4 r=2.47NM	FT563	-	-	-7.6	4.5	R	1216	-	-3.00	0.3
008	TF	RW25	Y	252 (244.5)	-7.6	1.7	-	692	-	-3.00/50	0.3
009	TF	MISMI	-	252 (244.5)	-7.6	12.0	-	3400	-	-	1.0

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	RNP Value
Hold	ASONO	286 (278.5)	-7.6	1.0 (-14000)	L	8000	FL140	-210 (-14000)	1.0
Hold	MISMI	071 (063.5)	-7.6	1.0 (-14000)	R	3400	FL140	-230 (-14000)	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
ASONO	330058.11N / 1311449.42E	FTRF3	325902.05N / 1305719.25E
DOUJI	330243.56N / 1310035.13E	FTRF4	325331.98N / 1305240.81E
FT560	330302.45N / 1305800.60E		
FT561	330204.49N / 1305408.90E		
FUMOT	325626.84N / 1305337.58E		
FT562	325506.96N / 1305456.29E		
FT563	325117.72N / 1305356.28E		
RW25	325035.24N / 1305210.28E		
MISMI	324524.10N / 1303916.73E		

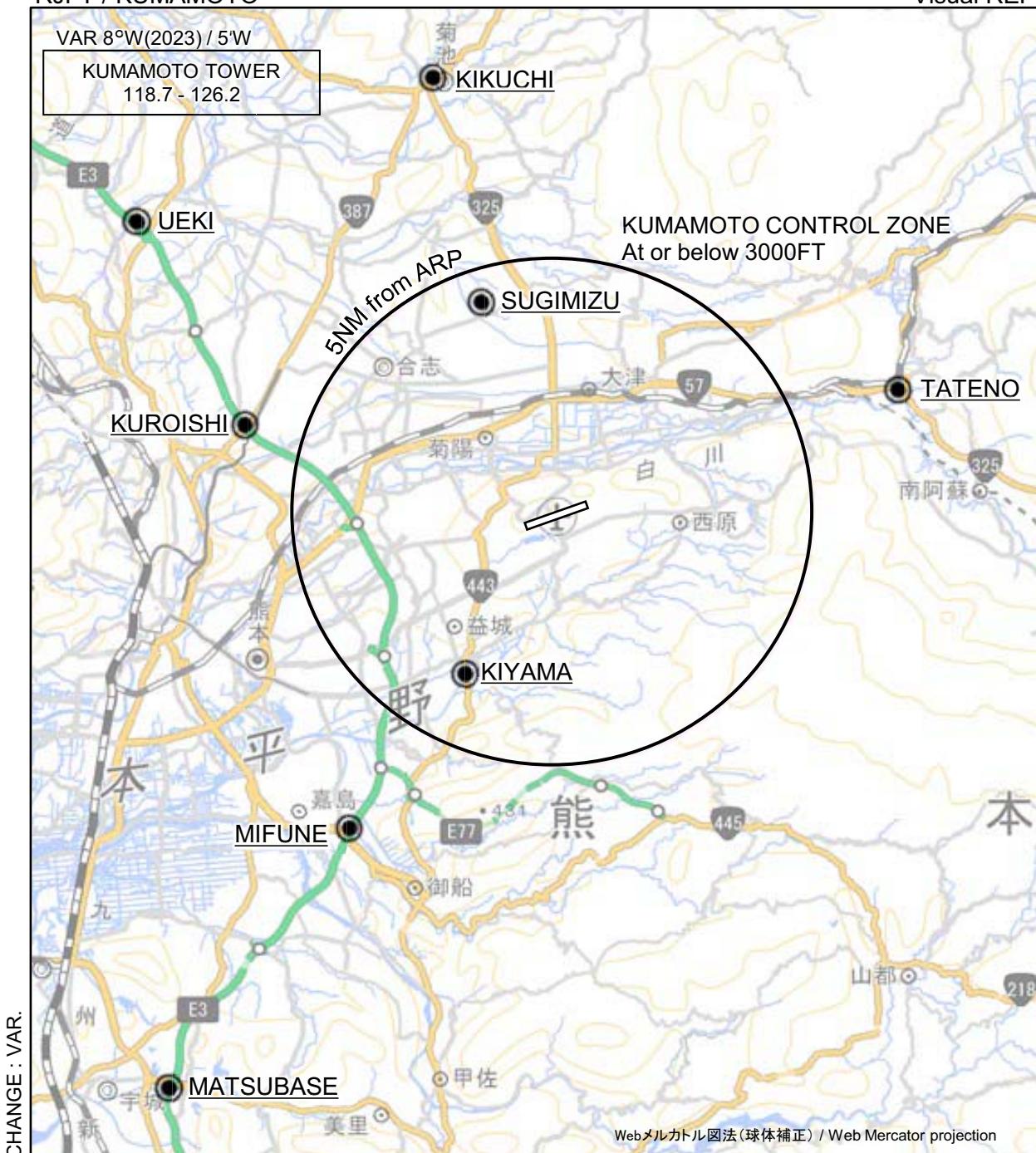
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PROFILE OF VALUES OF RADIO ALTIMETER



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Visual REP



※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).

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Visual REP

Call sign	BRG / DIST from ARP	Remarks
植木 Ueki	305°T / 9.9NM	九州自動車道植木インターチェンジ Kyushu expressway Ueki interchange
黒石 Kuroishi	286°T / 6.2NM	九州自動車道と国道387号線との交点 Intersection of Kyushu expressway and national route 387
菊池 Kikuchi	345°T / 8.9NM	NTT鉄塔(国道325号と国道387号の交点) Antenna tower (Intersection of national route 325 and 387)
杉水 Sugimizu	342°T / 4.5NM	ゴルフ場(くまもと中央CC) Golf course (Kumamoto Chuo CC)
立野 Tateno	070°T / 7.1NM	新阿蘇大橋 Bridge
木山 Kiyama	208°T / 3.6NM	木山川と国道443号との交点 Intersection of Kiyama river and national route 443
御船 Mifune	212°T / 7.4NM	九州自動車道御船インターチェンジ Kyushu expressway Mifune interchange
松橋 Matsubase	213°T / 13.6NM	九州自動車道松橋インターチェンジ Kyushu expressway Matsubase interchange

CHANGE : BRG/DIST from ARP. Visual REP established (KIKUCHI, MATSUBASE). Remarks (TATENO).

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LDG CHART



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Minimum Vectoring Altitude CHART

