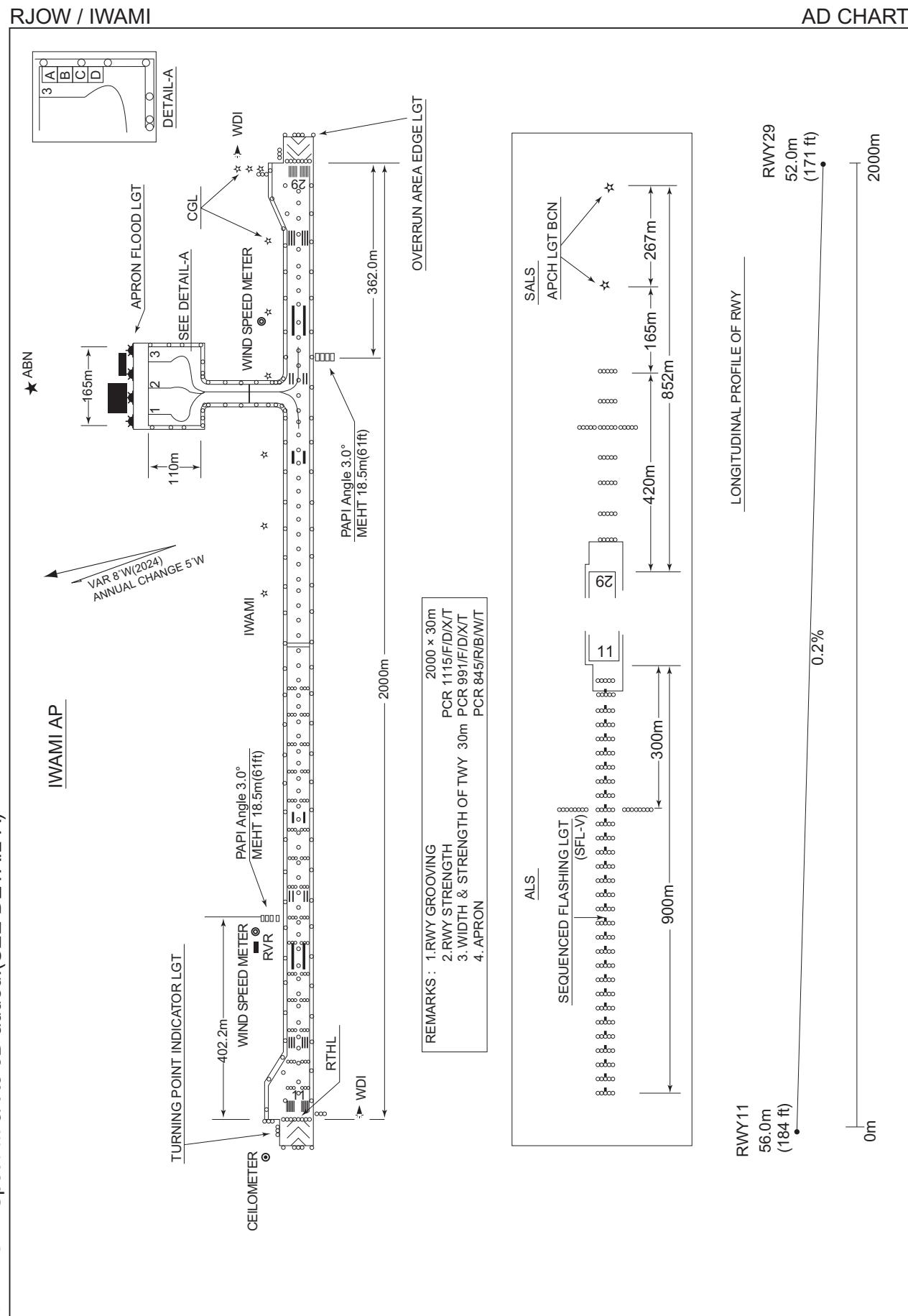


CHANGE : Spot FM 3A to 3D added.(SEE DETAIL-A)



STANDARD DEPARTURE CHART-INSTRUMENT

RJOW / IWAMI

SID and TRANSITION

SAMBA THREE DEPARTURE

RWY11 : Climb RWY HDG to 800FT, turn left HDG352°,...

RWY29 : Climb RWY HDG to 700FT, turn right HDG082°,...

...to intercept and proceed via IME R037 to SAMBA.

Cross SAMBA at or above 7000FT.

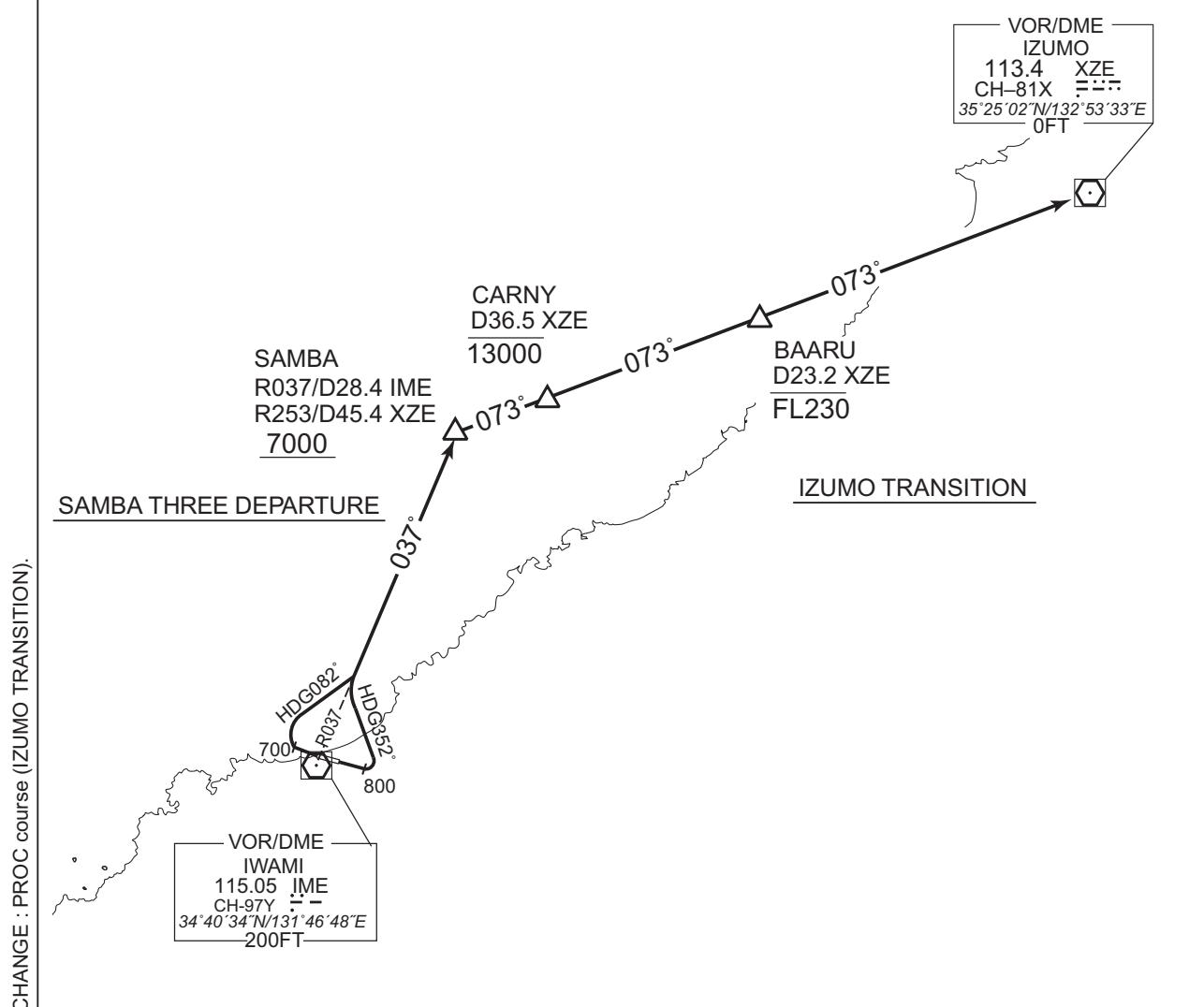
Note RWY11 : 5.7% climb gradient required up to 1700FT.

OBST ALT 1322FT located at 4.8NM 094° FM end of RWY11.

IZUMO TRANSITION

From over SAMBA, via XZE R253 to XZE VOR/DME.

Cross CARNY at or below 13000FT, cross BAARU at or below FL230.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJOW / IWAMI

RNAV TRANSITION

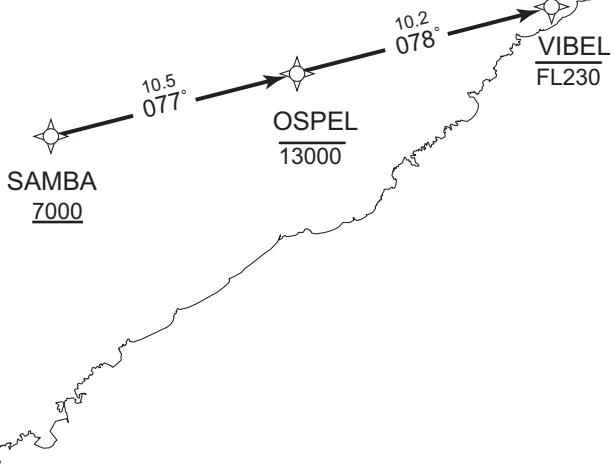
VIBEL TRANSITION

RNAV1

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

2) RADAR service required.

VAR 8°W



From SAMBA at or above 7000FT, to OSPEL at or below 13000FT, to VIBEL at or below FL230.

Critical DME	STD : SAMBA – VIBEL
DME GAP	-
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.

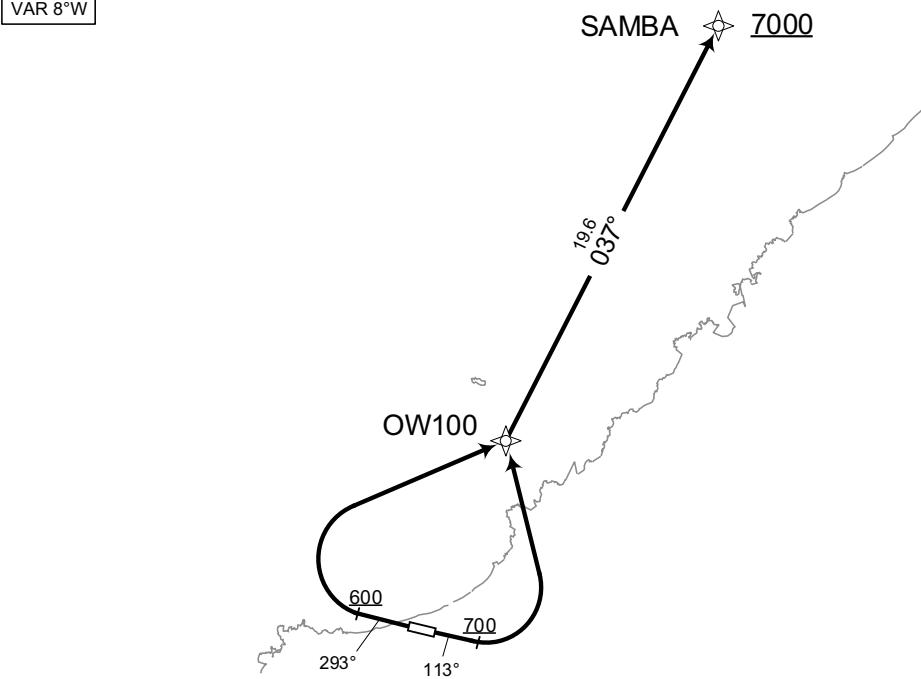
CHANGE : Waypoint Coordinate added.

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	SAMBA	-	-	-7.8	-	-	+7000	-	-	RNAV1
002	TF	OSPEL	-	077 (069.7)	-7.8	10.5	-	-13000	-	-	RNAV1
003	TF	VIBEL	-	078 (069.8)	-7.8	10.2	-	-FL230	-	-	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates
SAMBA	350526.4N / 1320323.7E
OSPEL	350903.6N / 1321523.9E
VIBEL	351234.2N / 1322706.9E

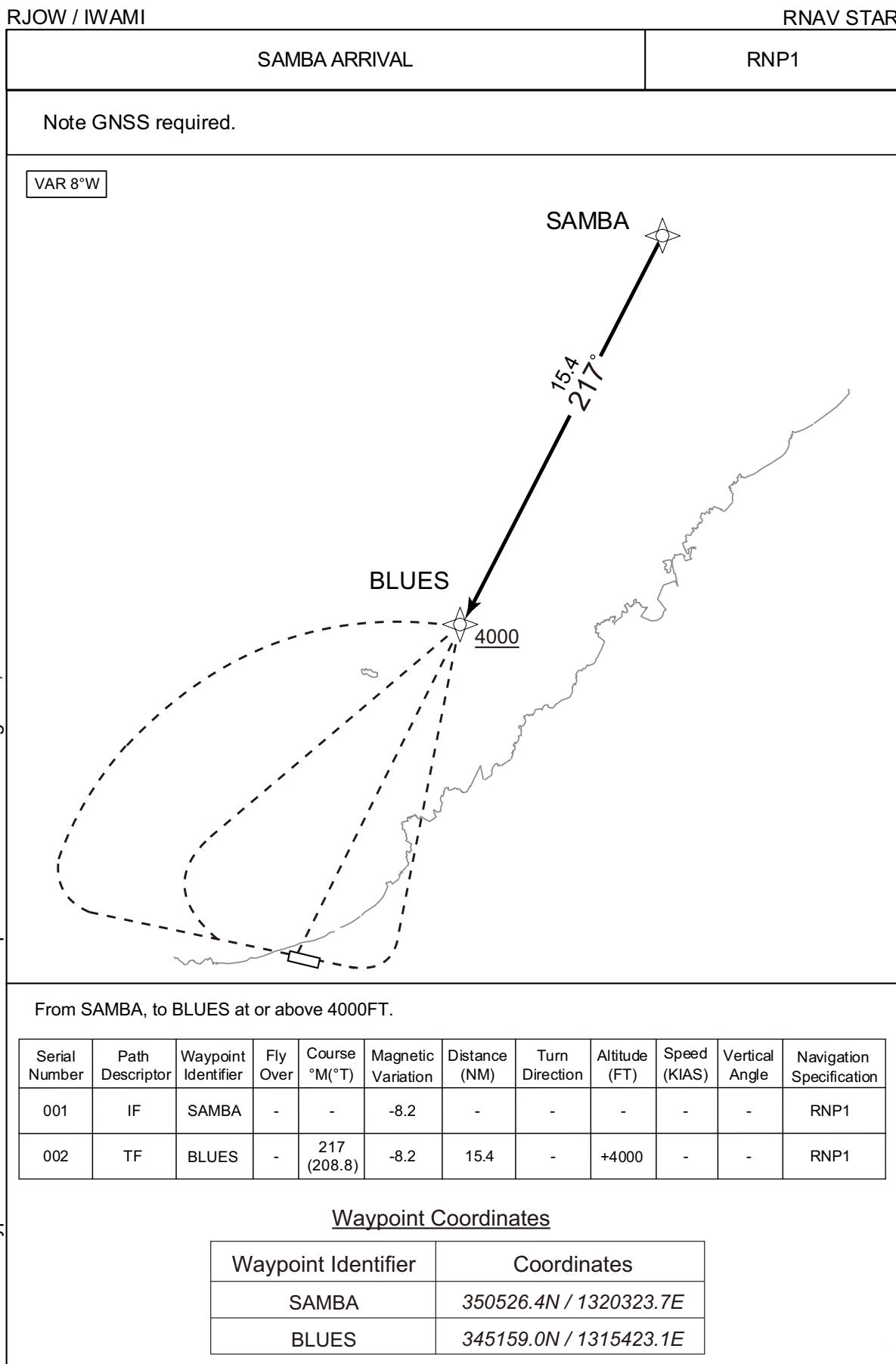
## STANDARD DEPARTURE CHART-INSTRUMENT

RJOW / IWAMI		RNAV SID																																																
SEKISYU ONE DEPARTURE		RNP1																																																
Note GNSS required.																																																		
 <p>VAR 8°W</p>																																																		
<p>RWY11 : Climb on HDG113° at or above 700FT, turn left...</p> <p>RWY29 : Climb on HDG293° at or above 600FT, turn right...</p> <p>...direct to OW100, to SAMBA at or above 7000FT.</p>																																																		
<p>Note RWY11 : 7.0% climb gradient required up to 800FT.</p> <p>OBST ALT 1182FT located at 4.8NM 094° FM end of RWY11.</p>																																																		
<p>RWY11</p> <table border="1"> <thead> <tr> <th>Serial Number</th> <th>Path Descriptor</th> <th>Waypoint Identifier</th> <th>Fly Over</th> <th>Course °M(°T)</th> <th>Magnetic Variation</th> <th>Distance (NM)</th> <th>Turn Direction</th> <th>Altitude (FT)</th> <th>Speed (KIAS)</th> <th>Vertical Angle</th> <th>Navigation Specification</th> </tr> </thead> <tbody> <tr> <td>001</td> <td>VA</td> <td>-</td> <td>-</td> <td>113 (104.8)</td> <td>-8.2</td> <td>-</td> <td>-</td> <td>+700</td> <td>-</td> <td>-</td> <td>RNP1</td> </tr> <tr> <td>002</td> <td>DF</td> <td>OW100</td> <td>-</td> <td>-</td> <td>-8.2</td> <td>-</td> <td>L</td> <td>-</td> <td>-</td> <td>-</td> <td>RNP1</td> </tr> <tr> <td>003</td> <td>TF</td> <td>SAMBA</td> <td>-</td> <td>037 (028.7)</td> <td>-8.2</td> <td>19.6</td> <td>-</td> <td>+7000</td> <td>-</td> <td>-</td> <td>RNP1</td> </tr> </tbody> </table>		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	-	-	113 (104.8)	-8.2	-	-	+700	-	-	RNP1	002	DF	OW100	-	-	-8.2	-	L	-	-	-	RNP1	003	TF	SAMBA	-	037 (028.7)	-8.2	19.6	-	+7000	-	-	RNP1	
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002	DF	OW100	-	-	-8.2	-	L	-	-	-	RNP1																																							
003	TF	SAMBA	-	037 (028.7)	-8.2	19.6	-	+7000	-	-	RNP1																																							
<p>RWY29</p> <table border="1"> <thead> <tr> <th>Serial Number</th> <th>Path Descriptor</th> <th>Waypoint Identifier</th> <th>Fly Over</th> <th>Course °M(°T)</th> <th>Magnetic Variation</th> <th>Distance (NM)</th> <th>Turn Direction</th> <th>Altitude (FT)</th> <th>Speed (KIAS)</th> <th>Vertical Angle</th> <th>Navigation Specification</th> </tr> </thead> <tbody> <tr> <td>001</td> <td>VA</td> <td>-</td> <td>-</td> <td>293 (284.9)</td> <td>-8.2</td> <td>-</td> <td>-</td> <td>+600</td> <td>-</td> <td>-</td> <td>RNP1</td> </tr> <tr> <td>002</td> <td>DF</td> <td>OW100</td> <td>-</td> <td>-</td> <td>-8.2</td> <td>-</td> <td>R</td> <td>-</td> <td>-</td> <td>-</td> <td>RNP1</td> </tr> <tr> <td>003</td> <td>TF</td> <td>SAMBA</td> <td>-</td> <td>037 (028.7)</td> <td>-8.2</td> <td>19.6</td> <td>-</td> <td>+7000</td> <td>-</td> <td>-</td> <td>RNP1</td> </tr> </tbody> </table>		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	-	-	293 (284.9)	-8.2	-	-	+600	-	-	RNP1	002	DF	OW100	-	-	-8.2	-	R	-	-	-	RNP1	003	TF	SAMBA	-	037 (028.7)	-8.2	19.6	-	+7000	-	-	RNP1	
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<p><u>Waypoint Coordinates</u></p> <table border="1"> <thead> <tr> <th>Waypoint Identifier</th> <th>Coordinates</th> </tr> </thead> <tbody> <tr> <td>OW100</td> <td>344816.7N / 1315154.9E</td> </tr> <tr> <td>SAMBA</td> <td>350526.4N / 1320323.7E</td> </tr> </tbody> </table>			Waypoint Identifier	Coordinates	OW100	344816.7N / 1315154.9E	SAMBA	350526.4N / 1320323.7E																																										
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CHANGE : Waypoint Coordinates added. Description of latitude and longitude, VOR/DME.

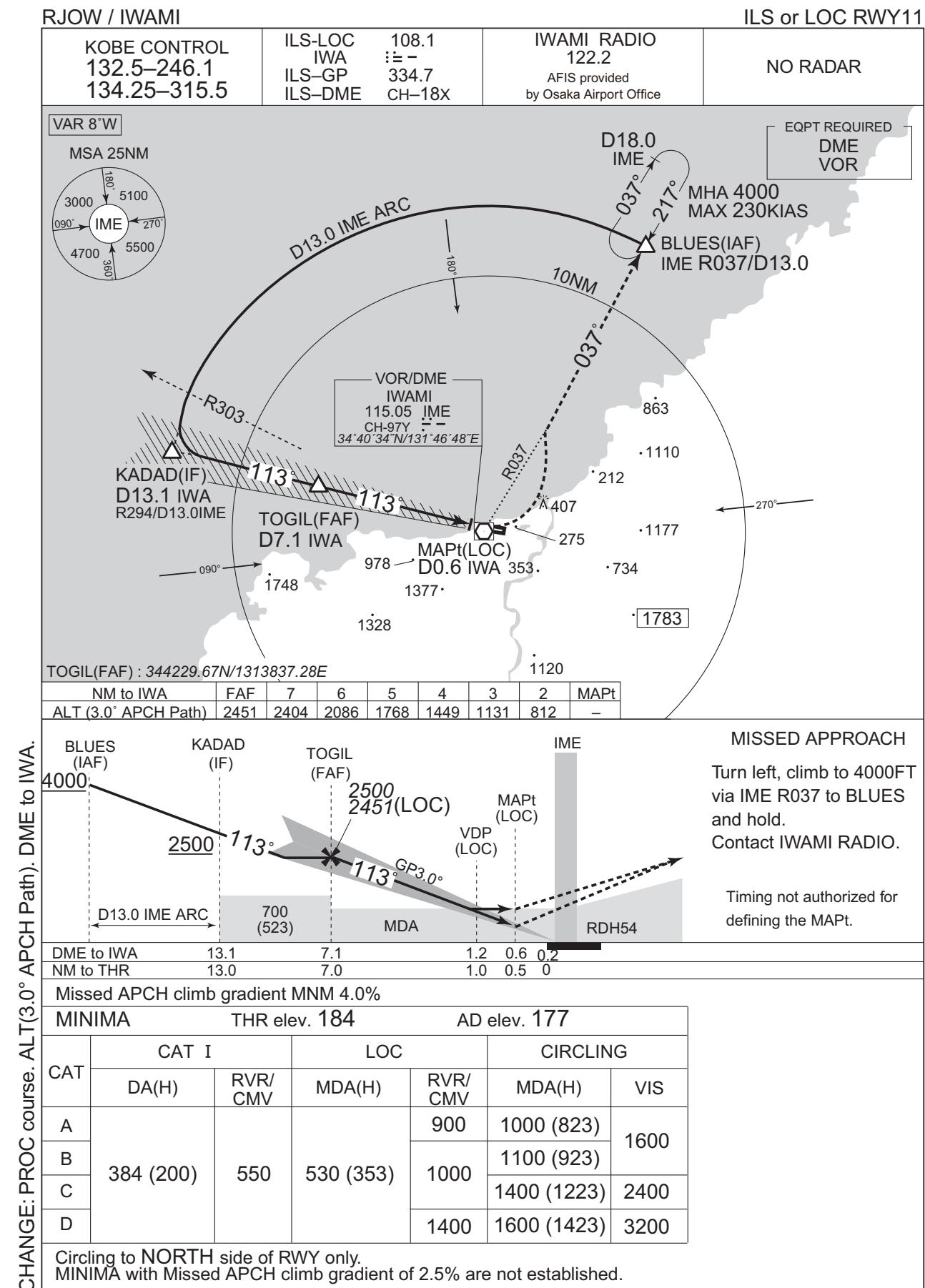
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## STANDARD ARRIVAL CHART-INSTRUMENT

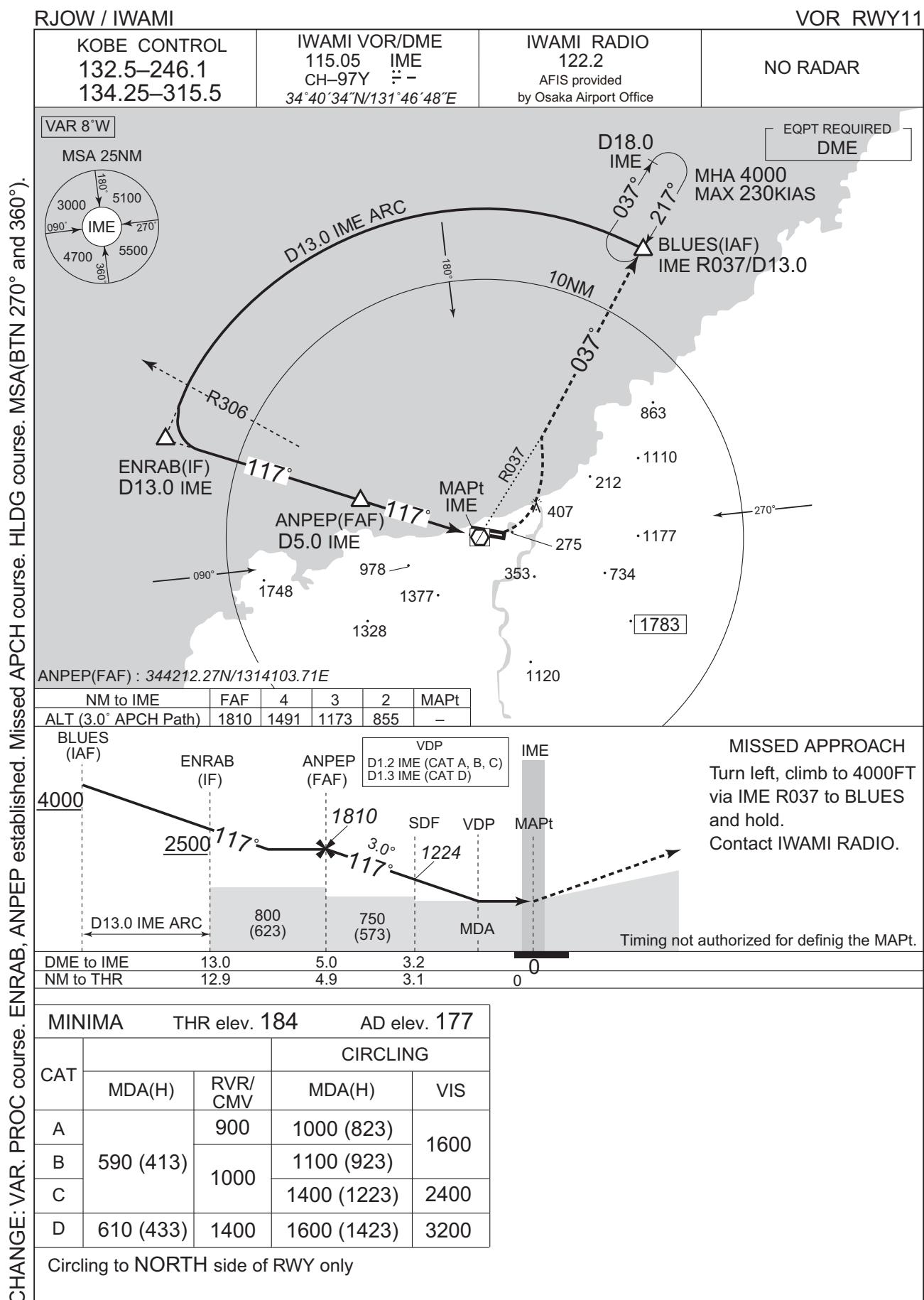


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## INSTRUMENT APPROACH CHART

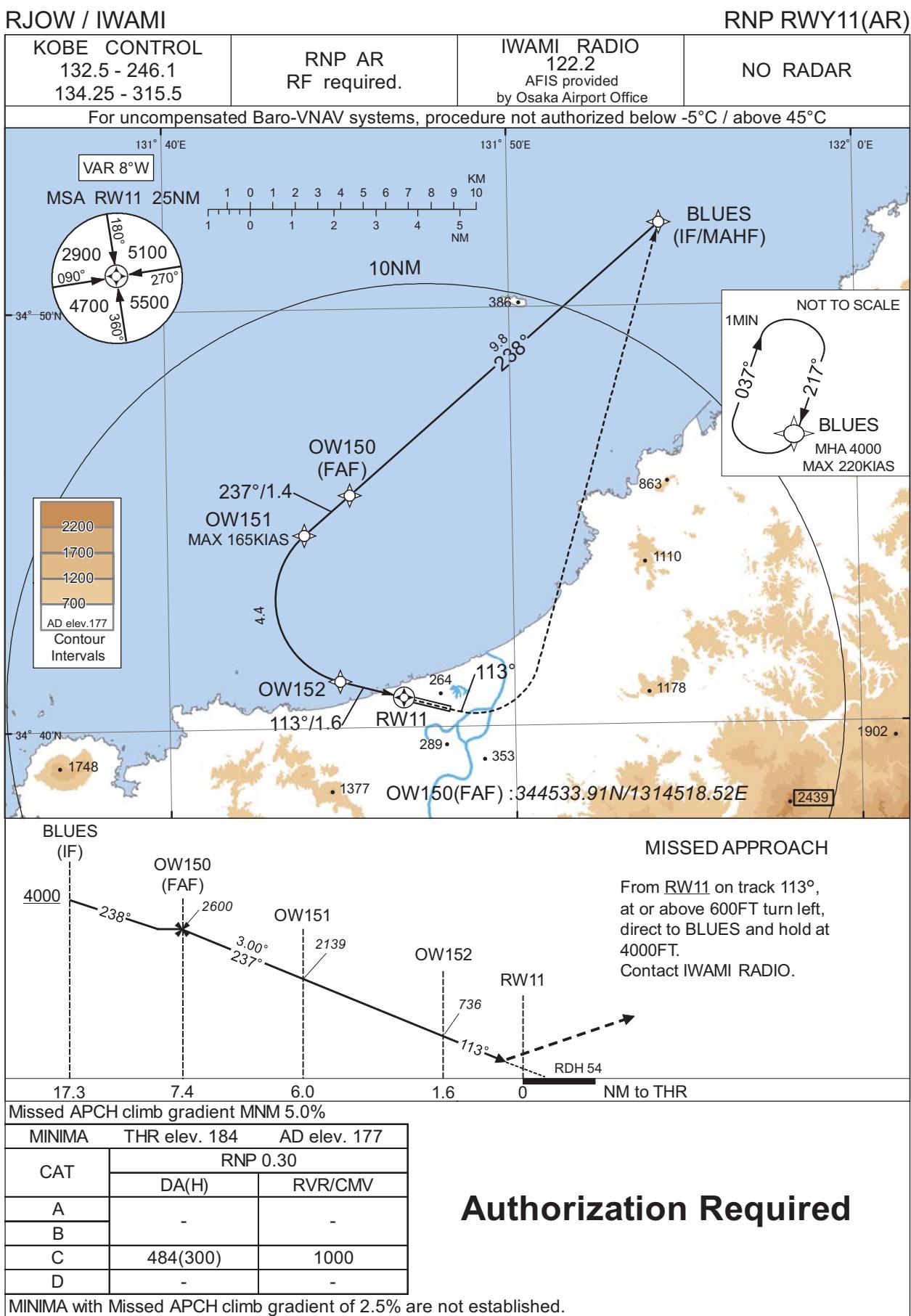


## INSTRUMENT APPROACH CHART





## INSTRUMENT APPROACH CHART



# Authorization Required

## INSTRUMENT APPROACH CHART

RJOW / IWAMI

RNP RWY11(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	BLUES	-	-	-8.2	-	-	+4000	-	-	1.0
002	TF	OW150	-	238 (229.3)	-8.2	9.8	-	2600	-	-	1.0
003	TF	OW151	-	237 (229.2)	-8.2	1.4	-	2139	-165	-3.00	0.3
004	RF Center: OWRF1 r=2.03NM	OW152	-	-	-8.2	4.4	L	736	-	-3.00	0.3
005	TF	RW11	Y	113 (104.8)	-8.2	1.6	-	238	-	-3.00/54	0.3
006	FA	-	-	113 (104.8)	-8.2	-	-	+600	-	-	1.0
007	DF	BLUES	-	-	-8.2	-	L	4000	-	-	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	BLUES	217 (208.7)	-8.2	1.0 (-13000)	R	4000	13000	-220 (-13000)	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
BLUES	345159.02N / 1315423.09E	OWRF1	344304.90N / 1314534.53E
OW150	344533.91N / 1314518.52E		
OW151	344437.18N / 1314358.51E		
OW152	344107.26N / 1314456.99E		
RW11	344043.28N / 1314647.11E		

CHANGE : VAR. Course FM BLUES to OW150. RNAV HLDG established.

## INSTRUMENT APPROACH CHART

RJOW / IWAMI

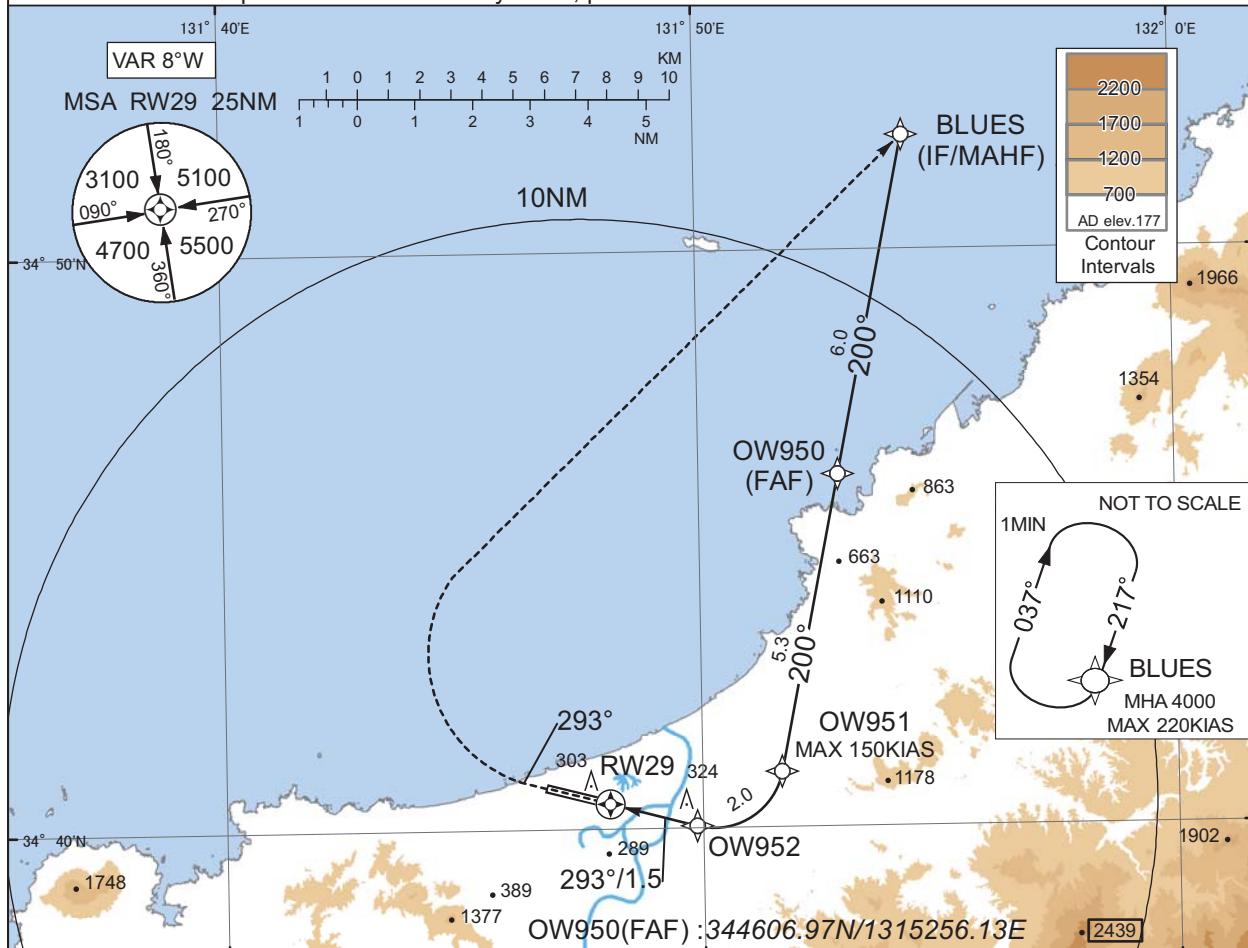
KOBE CONTROL  
132.5 - 246.1  
134.25 - 315.5

RNP AR  
RF required.

IWAMI RADIO  
122.2  
AFIS provided  
by Osaka Airport Office

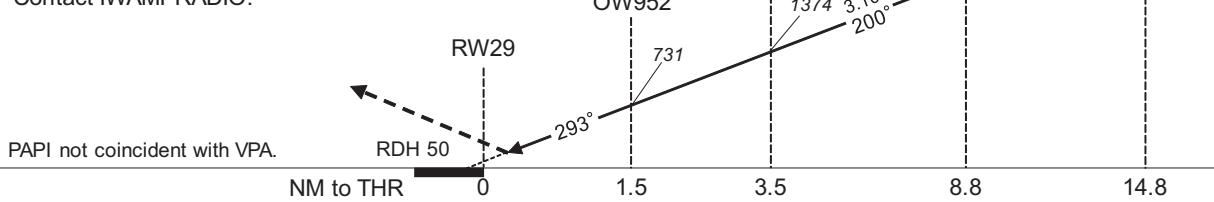
RNP RWY29(AR)

For uncompensated Baro-VNAV systems, procedure not authorized below -5°C / above 39°C



## MISSED APPROACH

From RW29 on track 293°, at or above 600FT turn right, direct to BLUES and hold at 4000FT.  
Contact IWAMI RADIO



Missed APCH climb gradient MNM 4.0%

MINIMA		THR elev. 171		AD elev. 177	
CAT	RNP 0.16		RNP 0.30		CMV
	DA(H)	CMV	DA(H)	CMV	
A					
B	-	-	-	-	
C	471(300)	1400	489(318)	1400	
D	-	-	-	-	

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

## Authorization Required

## INSTRUMENT APPROACH CHART

RJOW / IWAMI

RNP RWY29(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	BLUES	-	-	-8.2	-	-	+4000	-	-	1.0
002	TF	OW950	-	200 (191.5)	-8.2	6.0	-	3100	-	-	1.0
003	TF	OW951	-	200 (191.5)	-8.2	5.3	-	1374	-150	-3.10	0.16 0.30
004	RF Center: OWRF2 r=1.20NM	OW952	-	-	-8.2	2.0	R	731	-	-3.10	0.16 0.30
005	TF	RW29	Y	293 (284.9)	-8.2	1.5	-	221	-	-3.10/50	0.16 0.30
006	FA	-	-	293 (284.9)	-8.2	-	-	+600	-	-	1.0
007	DF	BLUES	-	-	-8.2	-	R	4000	-	-	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	BLUES	217 (208.7)	-8.2	1.0 (-13000)	R	4000	13000	-220 (-13000)	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
BLUES	345159.02N / 1315423.09E	OWRF2	344112.62N / 1315014.52E
OW950	344606.97N / 1315256.13E		
OW951	344058.27N / 1315140.08E		
OW952	344002.90N / 1314952.21E		
RW29	344026.72N / 1314803.07E		

CHANGE : VAR. PROC course. RNAV HLDG established.

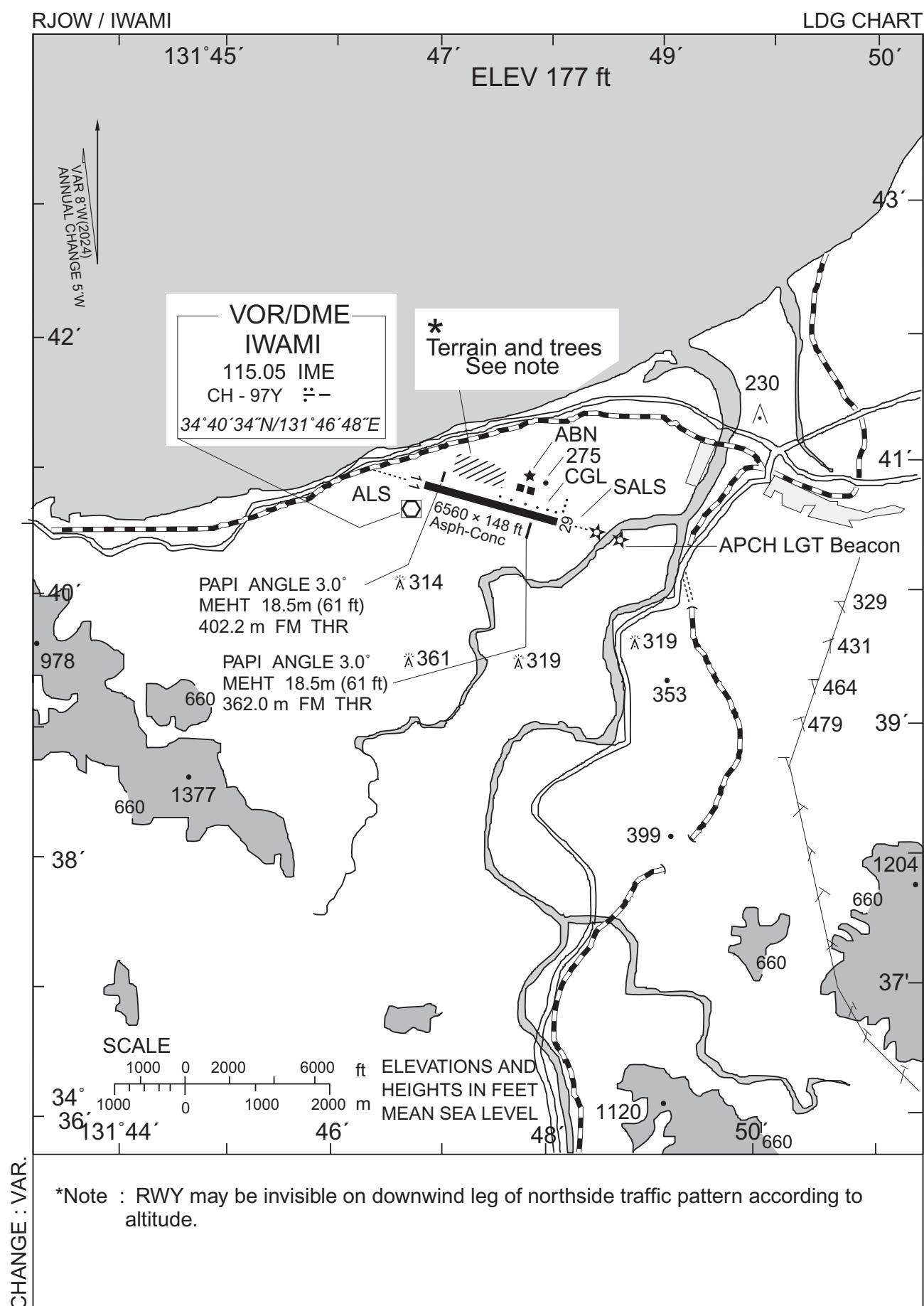
RJOW / IWAMI

Visual REP



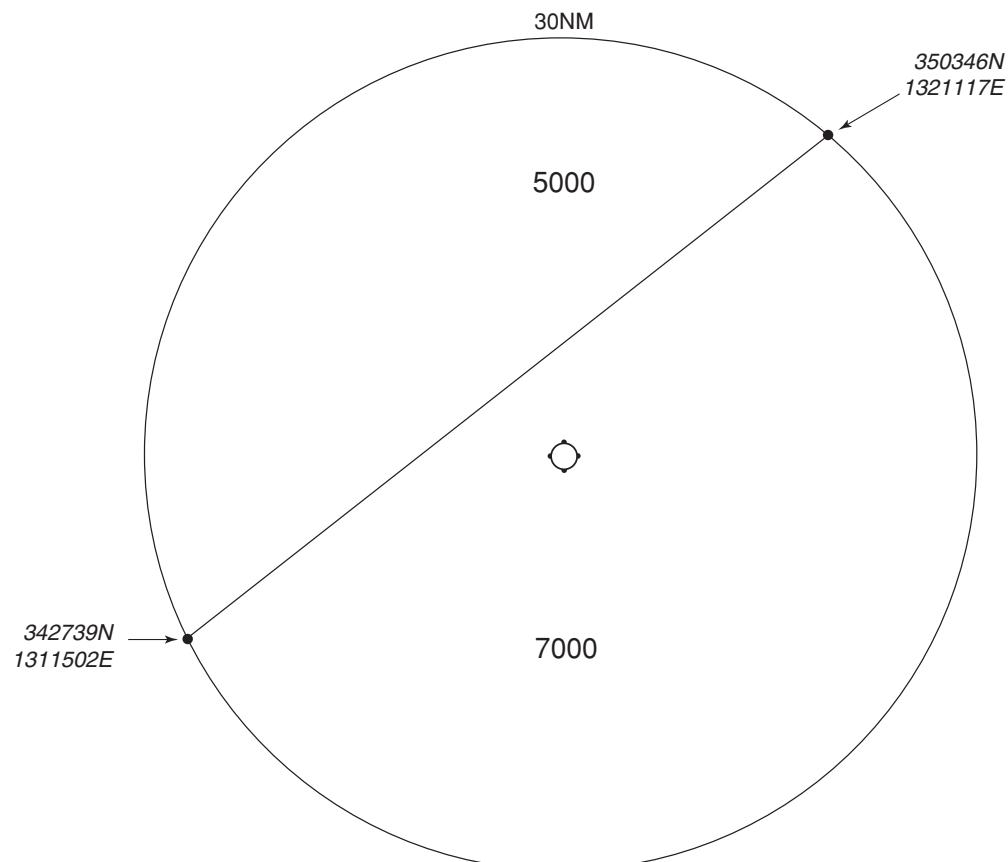
CHANGE : VAR.

Call sign	BRG / DIST from ARP	Remarks
魚待 Uomachi	038°T / 6.0NM	岬 Cape
高山 Takayama	266°T / 8.8NM	岬 Cape
日原 Nichihara	166°T / 8.9NM	駅 Station



RJOW / IWAMI

Minimum Vectoring Altitude CHART



CENTER : 344035N/1314725E (ARP)