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STANDARD DEPARTURE CHART -INSTRUMENT

ROIG / NEW ISHIGAKI

SID

GUSUK ONE DEPARTURE

RWY04 : Climb RWY HDG to 600FT, turn right,...

RWY22 : Climb RWY HDG to 600FT, via IGE R214 to IGE R214/2.8DME,turn left HDG027° ...

... to intercept and proceed via IGE R072 to GUSUK.

Cross GUSUK at or above 3000FT.

MIYAKO TWO DEPARTURE

RWY04 : Climb RWY HDG to 600FT, turn right HDG175° ...

RWY22 : Climb RWY HDG to 600FT, via IGE R214 to IGE R214/2.8DME,turn left HDG085° ...

... to intercept and proceed via IGE R130 to IGE 14.0DME, turn left, via MJC R241 to MJC VORTAC.



## STANDARD DEPARTURE CHART -INSTRUMENT

ROIG / NEW ISHIGAKI

SID

ISHIGAKI REVERSAL ONE DEPARTURE

RWY04 : Climb RWY HDG to 800FT, turn left to intercept and proceed via IGE R040 to 2000FT,  
turn right,direct to IGE VOR/DME.

Cross IGE VOR/DME at or above 4000FT.

RWY22 : Climb RWY HDG to 600FT,via IGE R214 to IGE R214/5.5DME,turn left, direct to IGE VOR/DME.  
Cross IGE VOR/DME at or above 4000FT.



STANDARD DEPARTURE CHART -INSTRUMENT

ROIG / NEW ISHIGAKI

SID

KOHAM ONE DEPARTURE

RWY04 : Climb RWY HDG to 800FT, turn left to intercept and proceed via IGE R040 to IGE R040/5.5DME, turn left, via IGE 8.0DME counterclockwise ARC, turn right to intercept and proceed via IGE R275 to KOHAM.

Cross KOHAM at or above 4000FT.

RWY22 : Climb RWY HDG to 600FT, via IGE R214 to IGE R214/5.5DME, turn right, via IGE 8.0DME clockwise ARC, turn left to intercept and proceed via IGE R275 to KOHAM.

Cross KOHAM at or above 4000FT.

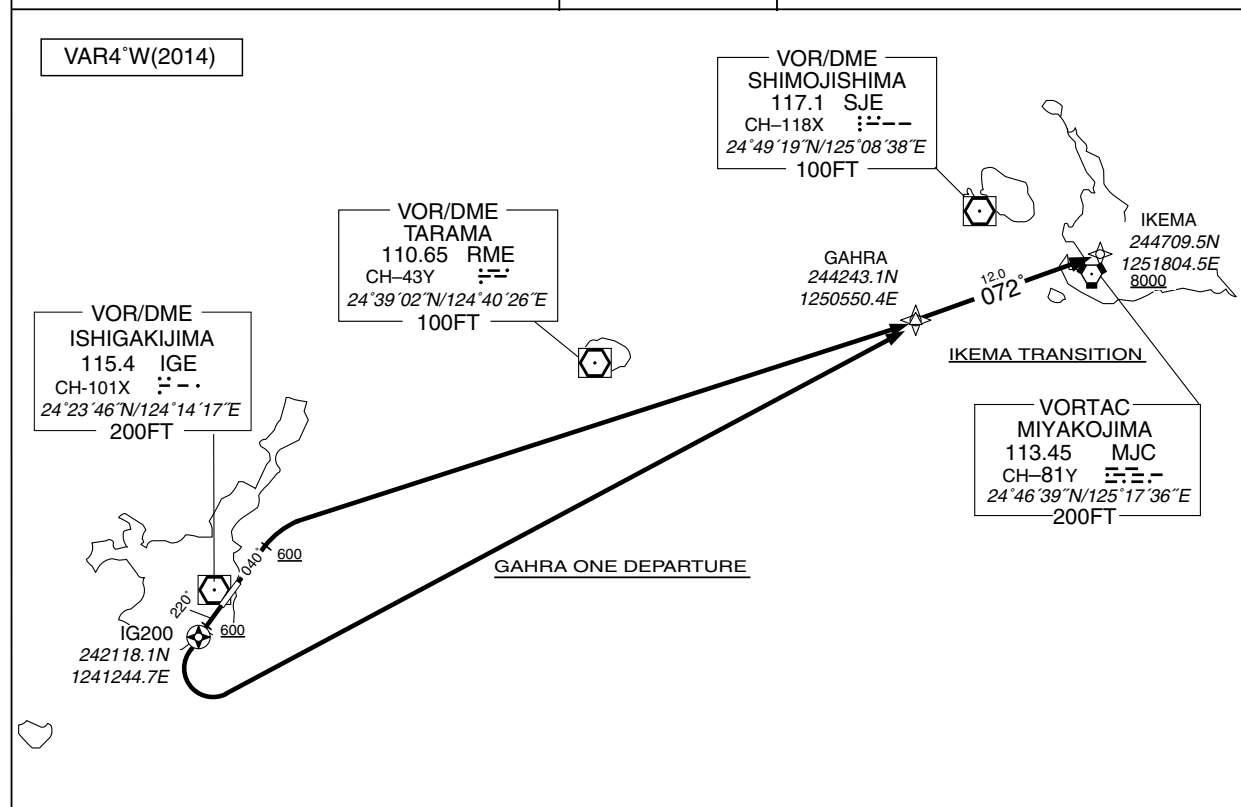


## STANDARD DEPARTURE CHART -INSTRUMENT

ROIG / NEW ISHIGAKI

RNAV SID and TRANSITION

GAHRA ONE DEPARTURE IKEMA 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	RWY22 : IGE : 52NM to GAHRA - 47NM to GAHRA MJC : 52NM to GAHRA - 50NM to GAHRA
	DME GAP	RWY04 : DER - GAHRA RWY22 : DER - IG200 IG200 - 52NM to GAHRA 47NM to GAHRA - GAHRA IKEMA TRANSITION : GAHRA - IKEMA
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

GAHRA ONE DEPARTURE

RWY04 : Climb on HDG 040° at or above 600FT, turn right direct to GAHRA.

RWY22 : Climb on HDG 220° at or above 600FT, direct to IG200, turn left direct to GAHRA.IKEMA TRANSITION

From GAHRA, to IKEMA at or above 8000FT.

## STANDARD DEPARTURE CHART -INSTRUMENT

ROIG / NEW ISHIGAKI

RNAV SID and TRANSITION

GAHRA ONE DEPARTURE

## RWY04

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	—	—	040 (035.9)	-4.1	—	—	+600	—	—	RNAV1
002	DF	GAHRA	—	—	-4.1	—	R	—	—	—	RNAV1

## RWY22

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	—	—	220 (215.9)	-4.1	—	—	+600	—	—	RNAV1
002	DF	IG200	Y	—	-4.1	—	—	—	—	—	RNAV1
003	DF	GAHRA	—	—	-4.1	—	L	—	—	—	RNAV1

IKEMA 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	GAHRA	—	—	-4.1	—	—	—	—	—	RNAV1
002	TF	IKEMA	—	072 (068.2)	-4.1	12.0	—	+8000	—	—	RNAV1

## STANDARD DEPARTURE CHART -INSTRUMENT

ROIG / NEW ISHIGAKI

RNAV SID

AYAKA ONE DEPARTURE		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	RWY04 : IGE : 1NM to IG400 - 19NM to AYAKA YNE : 1NM to IG400 - IG401 MJC : 24NM to AYAKA - 19NM to AYAKA RWY22 : YNE : 6NM to IG202 - 5NM to IG203 MJC : IG202 - 5NM to IG203
	DME GAP	RWY04 : DER - 1NM to IG400 18NM to AYAKA - AYAKA RWY22 : DER - 6NM to IG202 5NM to IG203 - AYAKA
	Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

VAR4°W(2014)

AYAKA ONE DEPARTURE

RWY04 : Climb on HDG 040° at or above 600FT, direct to IG400, to IG401, to IG402, to AYAKA at or above 5000FT.

RWY22 : Climb on HDG 220° at or above 600FT, direct to IG200, to IG201, to IG202, to IG203 at or above 5000FT, to AYAKA.

NOTE RWY04 : 4.0% climb gradient required up to 2000FT.

OBST ALT 836FT at 9.53NM 021° FM end of RWY04.



## STANDARD DEPARTURE CHART -INSTRUMENT

ROIG / NEW ISHIGAKI

RNAV SID

AYAKA ONE DEPARTURE

## RWY04

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	—	—	040 (035.9)	-4.1	—	—	+600	—	—	RNAV1
002	DF	IG400	—	—	-4.1	—	—	—	—	—	RNAV1
003	TF	IG401	—	007 (002.6)	-4.1	3.0	—	—	—	—	RNAV1
004	TF	IG402	—	293 (289.1)	-4.1	4.6	—	—	—	—	RNAV1
005	TF	AYAKA	—	260 (256.1)	-4.1	36.0	—	+5000	—	—	RNAV1

## RWY22

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	—	—	220 (215.9)	-4.1	—	—	+600	—	—	RNAV1
002	DF	IG200	Y	—	-4.1	—	—	—	—	—	RNAV1
003	TF	IG201	—	220 (215.7)	-4.1	4.6	—	—	—	—	RNAV1
004	TF	IG202	—	282 (277.9)	-4.1	9.6	—	—	—	—	RNAV1
005	TF	IG203	—	288 (283.9)	-4.1	8.4	—	+5000	—	—	RNAV1
006	TF	AYAKA	—	288 (283.8)	-4.1	14.0	—	—	—	—	RNAV1

STANDARD ARRIVAL CHART-INSTRUMENT

ROIG / NEW ISHIGAKI

RNAV STAR RWY04



## STANDARD ARRIVAL CHART-INSTRUMENT

ROIG / NEW ISHIGAKI

RNAV STAR RWY04

JOTTO NORTH ARRIVAL

From DIANA at or above 8000FT, to MASAN, to YAIMA, to JOTTO at or above 3000FT.

Critical DME	MJC : DIANA - 21NM to MASAN 14NM to YAIMA - 10NM to YAIMA IGE : 36NM to MASAN - 21NM to MASAN 14NM to YAIMA - 13NM to YAIMA
DME GAP	21NM to MASAN - 14NM to YAIMA
Inappropriate Nav aids	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	DIANA	—	—	-4.1	—	—	+8000	—	—	RNAV1
002	TF	MASAN	—	235 (230.5)	-4.1	46.1	—	—	—	—	RNAV1
003	TF	YAIMA	—	220 (215.8)	-4.1	23.2	—	—	-230	—	RNAV1
004	TF	JOTTO	—	310 (305.5)	-4.1	5.0	—	+3000	—	—	RNAV1

JOTTO SOUTH ARRIVAL

From LUCKY at or above 8000FT, to YAIMA, to JOTTO at or above 3000FT.

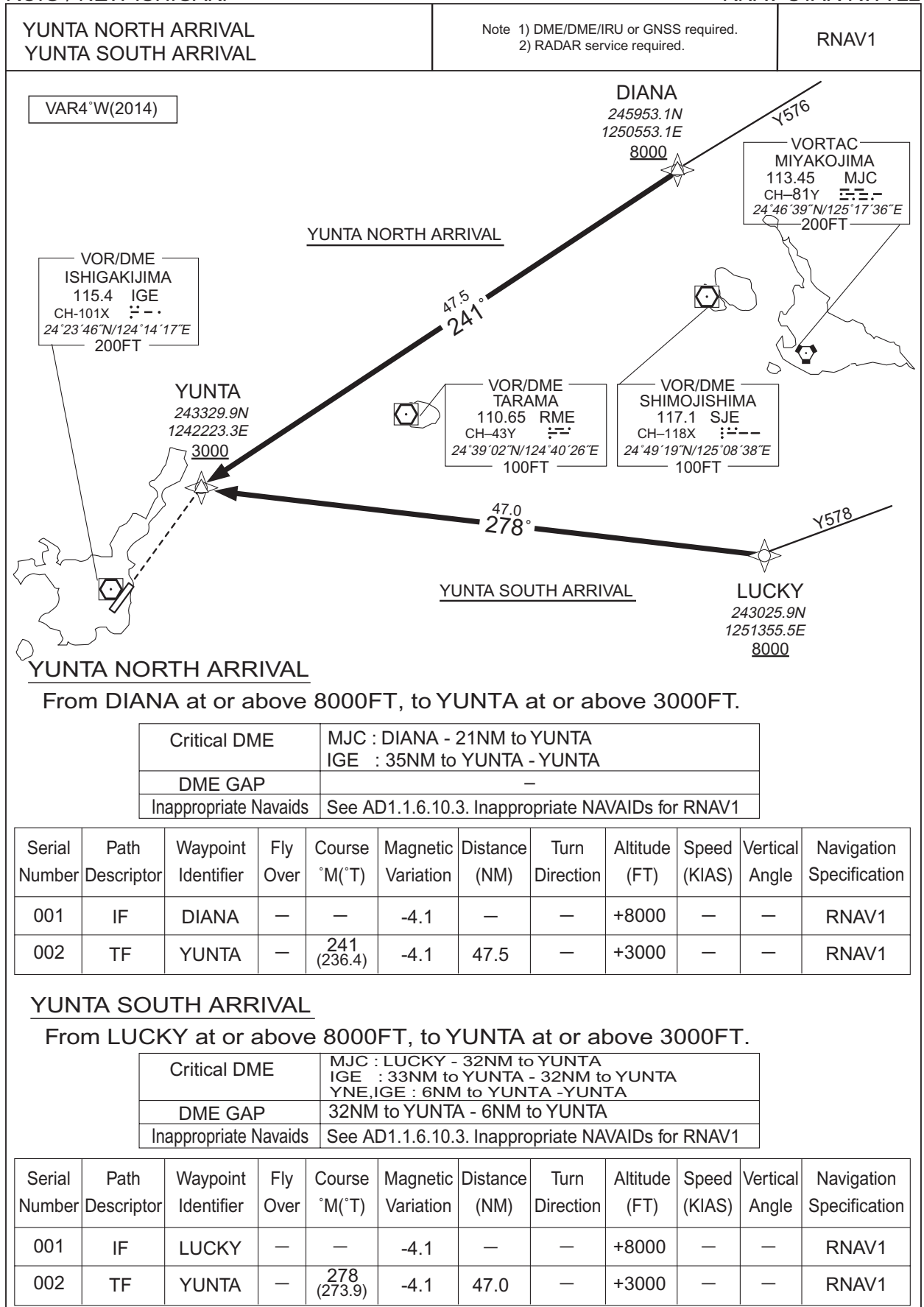
Critical DME	MJC : LUCKY - 6NM to YAIMA IGE : 53NM to YAIMA - 6NM to YAIMA
DME GAP	—
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

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	LUCKY	—	—	-4.1	—	—	+8000	—	—	RNAV1
002	TF	YAIMA	—	256 (251.9)	-4.1	59.5	—	—	-230	—	RNAV1
003	TF	JOTTO	—	310 (305.5)	-4.1	5.0	—	+3000	—	—	RNAV1

## STANDARD ARRIVAL CHART-INSTRUMENT

ROIG / NEW ISHIGAKI

RNAV STAR RWY22

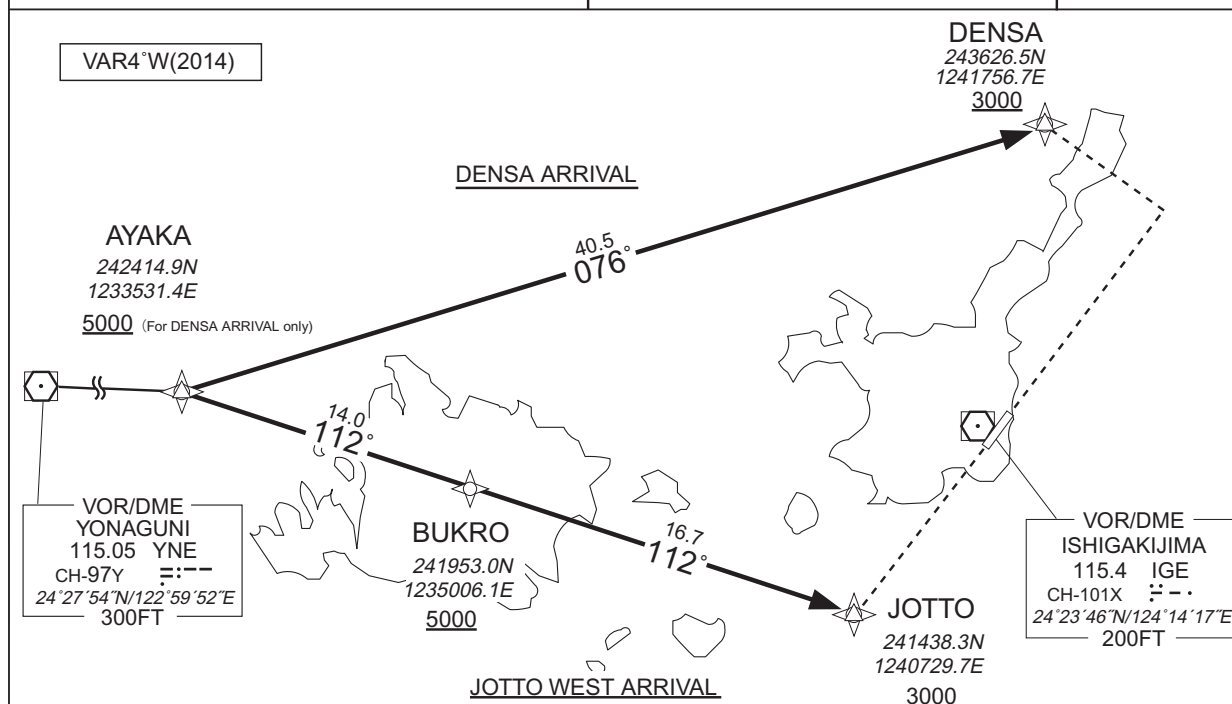


## STANDARD ARRIVAL CHART-INSTRUMENT

ROIG / NEW ISHIGAKI

RNAV STAR RWY04/RWY22

DENSA ARRIVAL JOTTO WEST ARRIVAL	Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required.	RNAV1
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**DENSA ARRIVAL**

From AYAKA at or above 5000FT, to DENSA at or above 3000FT.

Critical DME	IGE : 23NM to DENSA - DENSA MJC : 23NM to DENSA - 18NM to DENSA
DME GAP	AYAKA - 23NM to DENSA
Inappropriate Nav aids	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	AYAKA	—	—	-4.1	—	—	+5000	—	—	RNAV1
002	TF	DENSA	—	076 (072.3)	-4.1	40.5	—	+3000	—	—	RNAV1

**JOTTO WEST ARRIVAL**

From AYAKA, to BUKRO at or above 5000FT, to JOTTO at or above 3000FT.

Critical DME	MJC : 14NM to JOTTO - 10NM to JOTTO YNE : 14NM to JOTTO - JOTTO
DME GAP	AYAKA - 14NM to JOTTO
Inappropriate Nav aids	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	AYAKA	—	—	-4.1	—	—	—	—	—	RNAV1
002	TF	BUKRO	—	112 (108.1)	-4.1	14.0	—	+5000	—	—	RNAV1
003	TF	JOTTO	—	112 (108.2)	-4.1	16.7	—	+3000	—	—	RNAV1

## ROIG / NEW ISHIGAKI

ILS Z or LOC Z RWY04

**23/4/20**

## INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

ILS Y or LOC Y RWY04



NM to IIG	FAF	5	4	3	2	MAPt
ALT ( 3.0° APCH Path)	1971	1705	1387	1068	750	—

Turn initiation within D11.0 IGE

201°

040°

2600

700 (598)

BALAS (FAF) 2000 1971(LOC)

GP 3.0°

MDA

RDH 54

IGE 3000

**MISSED APPROACH**

Climb to 800FT on HDG040°, turn left, via IGE R040 to 2000FT, turn right, direct to IGE VOR/DME and hold at 3000FT. Contact SAKISHIMA APP.

Timing not authorized for defining the MAPt.

5.8	1.4	0.7	DME to IIG
5.6	1.2	0.50	NM to THR

Missed APCH climb gradient MNM 5.0%

MINIMA		THR elev. 126		AD elev. 102	
CAT	CAT I		LOC		CIRCLING
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H) VIS
A	326(200)	550	530(428)	900	580(478) 1600
B				1000	
C				1400	
D	336(210)	600			660(558) 2400 3200

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

INSTRUMENT APPROACH CHART

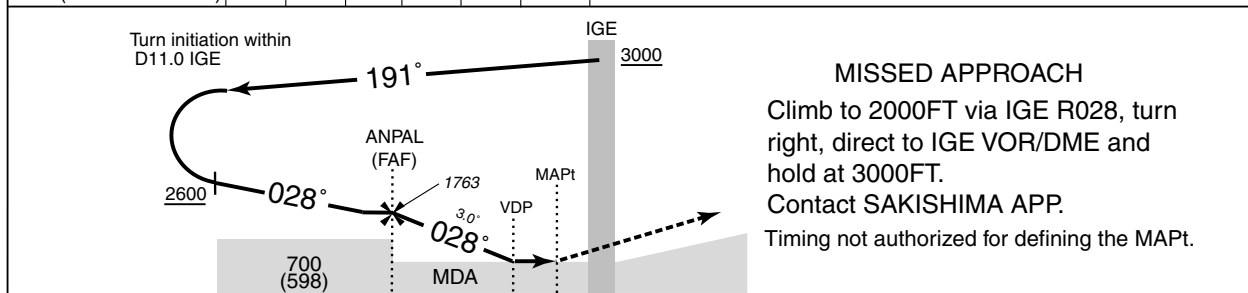
ROIG / NEW ISHIGAKI

VOR RWY04

SAKISHIMA APP 120.3 – 121.2	ISHIGAKIJIMA VOR/DME 115.4 IGE CH-101X 24°23'46"N/124°14'17"E	ISHIGAKI TOWER 118.0 – 126.2	RADAR AVBL ATIS 128.675
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NM to IGE	FAF	5	4	3	2	MAPt
ALT ( 3.0° APCH Path)	1763	1666	1347	1029	711	—



5.3	1.5	1.5	DME to IGE
5.0	1.2	1.1 0	NM to THR

MINIMA		THR elev. 126	AD elev. 102	
CAT			CIRCLING	
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	540(438)	900	580(478)	1600
B		1000		
C			660(558)	2400
D				1400

Circling to EAST side of RWY only.



## ROIG / NEW ISHIGAKI

VOR Z RWY22

**MISSED APPROACH**

Climb via IGE R215 to IGE  
4.0DME, turn left, direct to IGE  
VOR/DME and hold at 3000FT.  
Contact SAKISHIMA APP.

Timing not authorized for defining the MAPt.

IGE

MAPt

VDP

MARPE (FAF)

1520

3.0°

228°

228°

1400 (1298)

AIBAR (IF)

2200

GUSUK (IAF)

3000

D11.0 IGE

ARC

[illegible]

				0-100
Circling to EAST side of RWY only.				

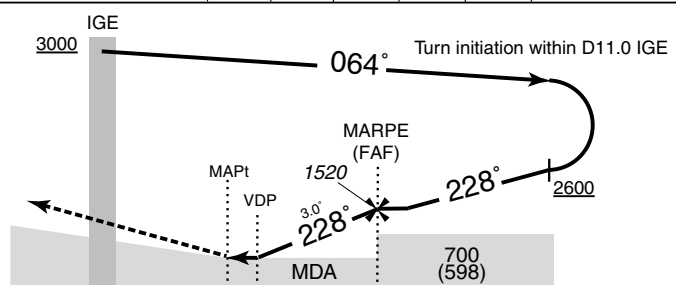
INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

VOR Y RWY22



**MISSED APPROACH**  
 Climb via IGE R215 to IGE  
 4.0DME, turn left, direct to IGE  
 VOR/DME and hold at 3000FT.  
 Contact SAKISHIMA APP.  
 Timing not authorized for defining the MAPt.



DME to IGE		2.1	2.2	5.1
NM to THR	0	1.3	1.4	4.3

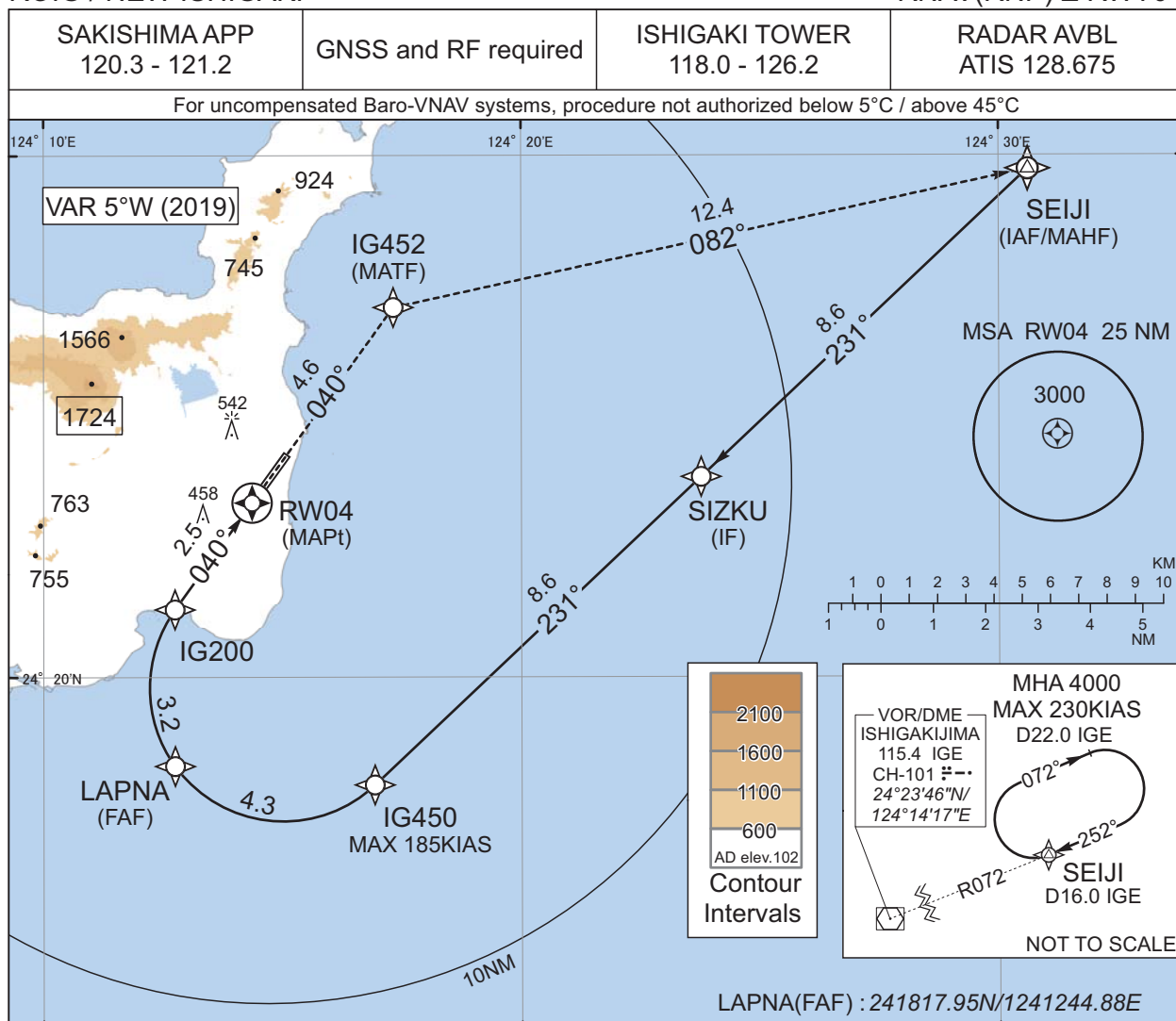
MINIMA		THR elev. 110		AD elev. 102	
CAT			CIRCLING		
	MDA(H)	CMV	MDA(H)	VIS	
A	580(478)	1400	580(478)	1600	
B		1500			
C		1600	660(558)	2400	
D		1800			3200

Circling to EAST side of RWY only.

## INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

RNAV(RNP) Z RWY04



Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 126	AD elev. 102
CAT	RNP 0.30	
	DA(H)	RVR/CMV
A	-	-
B	-	-
C	545(419)	1000
D	567(441)	1400

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

**RNP AR****Special Authorization Required**

CHANGE : New PROC

## INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

RNAV(RNP) Z RWY04

RNAV(RNP) Z RWY04Coding 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	SEIJI	-	-	-4.7	-	-	+4000	-	-	-
002	TF	SIZKU	-	231 (226.6)	-4.7	8.6	-	-	-	-	1.0
003	TF	IG450	-	231 (226.6)	-4.7	8.6	-	+2000	-185	-	1.0
004	RF Center: IGRF1 r=2.55NM	LAPNA	-	-	-4.7	4.3	R	2000	-	-	1.0
005	RF Center: IGRF1 r=2.55NM	IG200	-	-	-4.7	3.2	R	982	-	-3.00	0.3
006	TF	RW04	Y	040 (035.7)	-4.7	2.5	-	180	-	-3.00/54	0.3
007	TF	IG452	-	040 (035.7)	-4.7	4.6	-	-	-	-	1.0
008	TF	SEIJI	-	082 (077.6)	-4.7	12.4	-	4000	-	-	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
SEIJI	242944.43N/1243036.57E	IGRF1	241948.12N/1241500.55E
SIZKU	242350.59N/1242345.74E		
IG450	241756.41N/1241655.55E		
LAPNA	241817.95N/1241244.88E		
IG200	242118.09N/1241244.70E		
RW04	242320.91N/1241421.64E		
IG452	242705.63N/1241719.18E		

CHANGE : New PROC

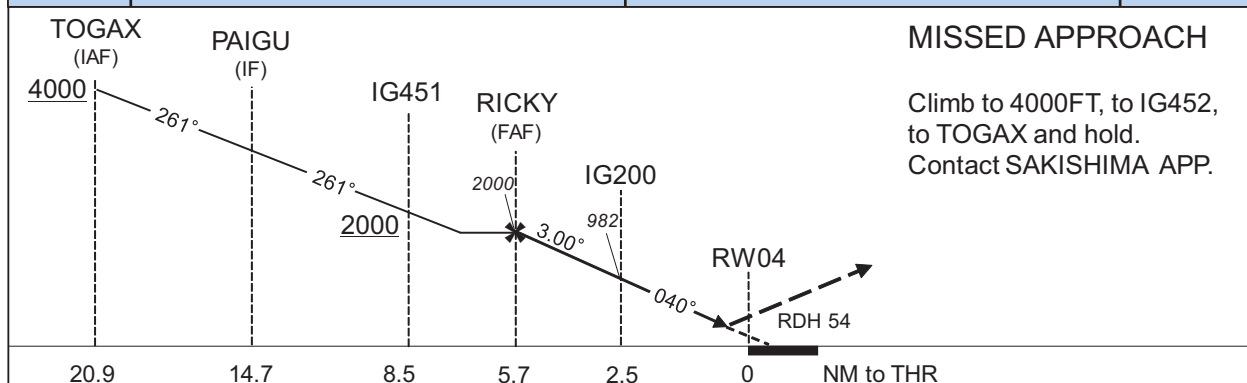
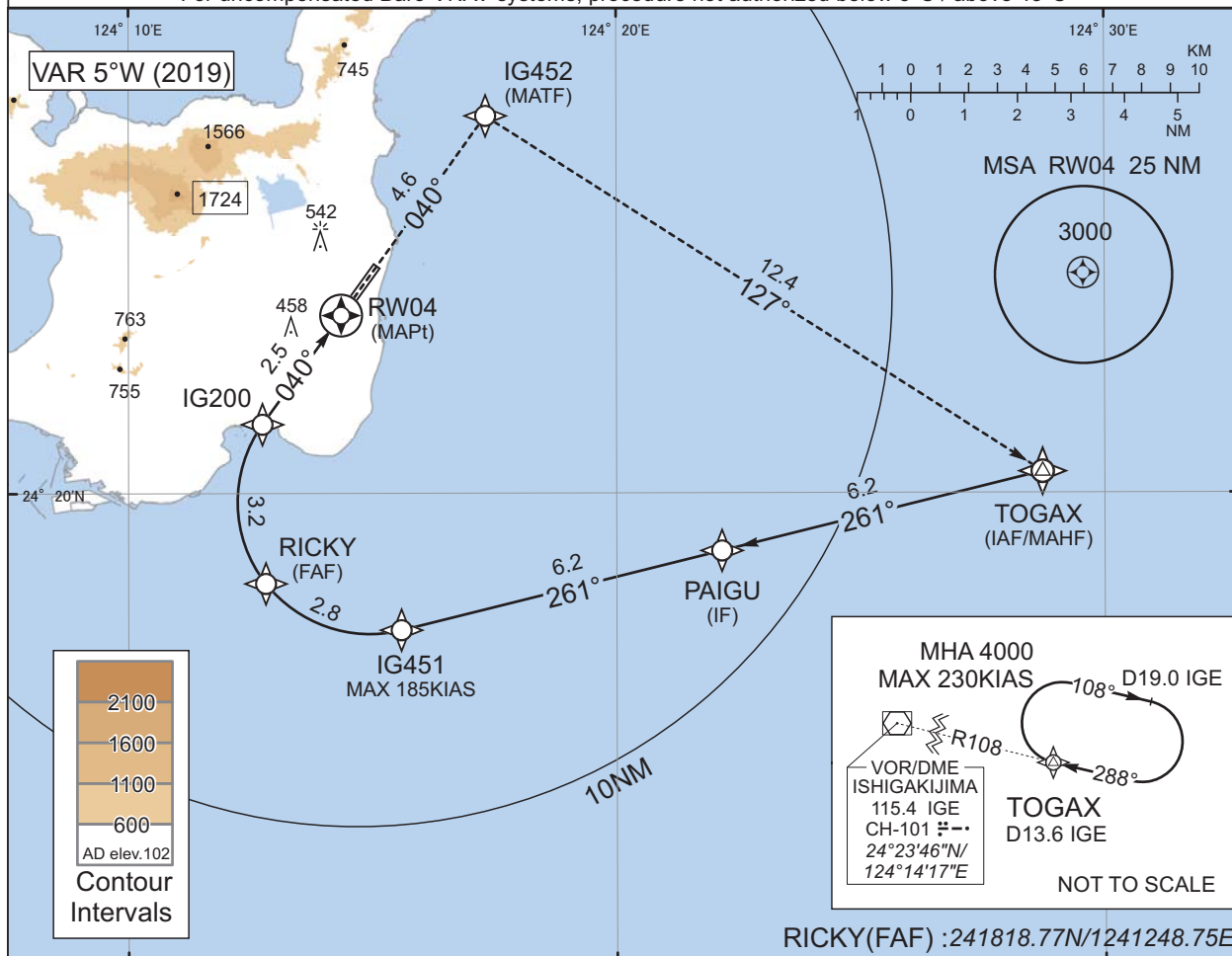
## INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

RNAV(RNP) Y RWY04

SAKISHIMA APP 120.3 - 121.2	GNSS and RF required	ISHIGAKI TOWER 118.0 - 126.2	RADAR AVBL ATIS 128.675
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For uncompensated Baro-VNAV systems, procedure not authorized below 5°C / above 45°C



Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 126	AD elev. 102
CAT	RNP 0.30	
	DA(H)	RVR/CMV
A	-	-
B	-	-
C	545(419)	1000
D	567(441)	1400

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

# RNP AR

Special Authorization Required

## INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

RNAV(RNP) Y RWY04

RNAV(RNP) Y RWY04Coding 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	TOGAX	-	-	-4.7	-	-	+4000	-	-	-
002	TF	PAIGU	-	261 (256.1)	-4.7	6.2	-	-	-	-	1.0
003	TF	IG451	-	261 (256.1)	-4.7	6.2	-	+2000	-185	-	1.0
004	RF Center: IGRF2 r=2.47NM	RICKY	-	-	-4.7	2.8	R	2000	-	-	1.0
005	RF Center: IGRF2 r=2.47NM	IG200	-	-	-4.7	3.2	R	982	-	-3.00	0.3
006	TF	RW04	Y	040 (035.7)	-4.7	2.5	-	180	-	-3.00/54	0.3
007	TF	IG452	-	040 (035.7)	-4.7	4.6	-	-	-	-	1.0
008	TF	TOGAX	-	127 (122.7)	-4.7	12.4	-	4000	-	-	1.0

Waypoint Coordinates

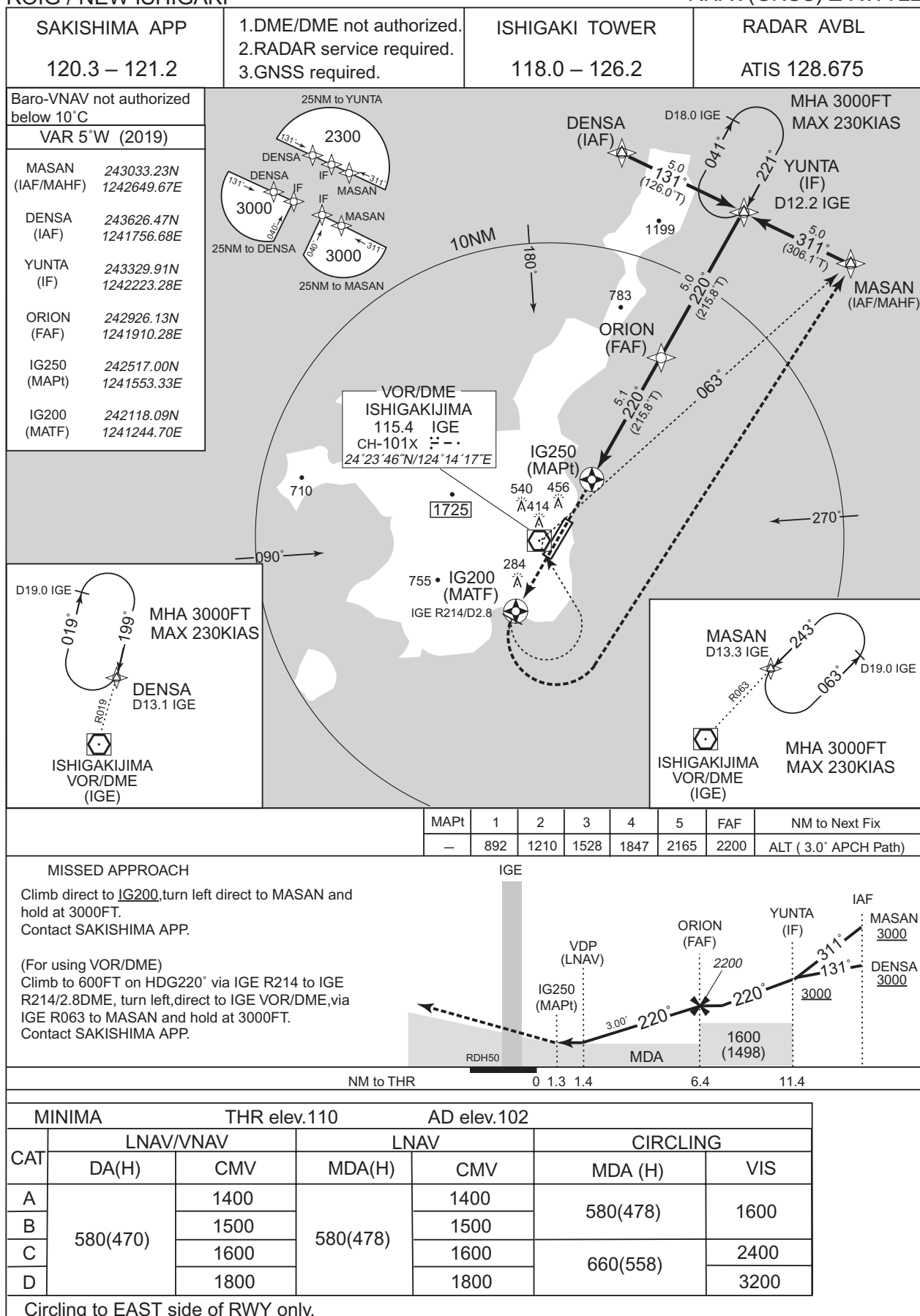
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
TOGAX	242024.18N/1242843.66E	IGRF2	241950.87N/1241456.35E
PAIGU	241855.41N/1242209.38E		
IG451	241726.37N/1241535.30E		
RICKY	241818.77N/1241248.75E		
IG200	242118.09N/1241244.70E		
RW04	242320.91N/1241421.64E		
IG452	242705.63N/1241719.18E		

CHANGE : New PROC

## INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

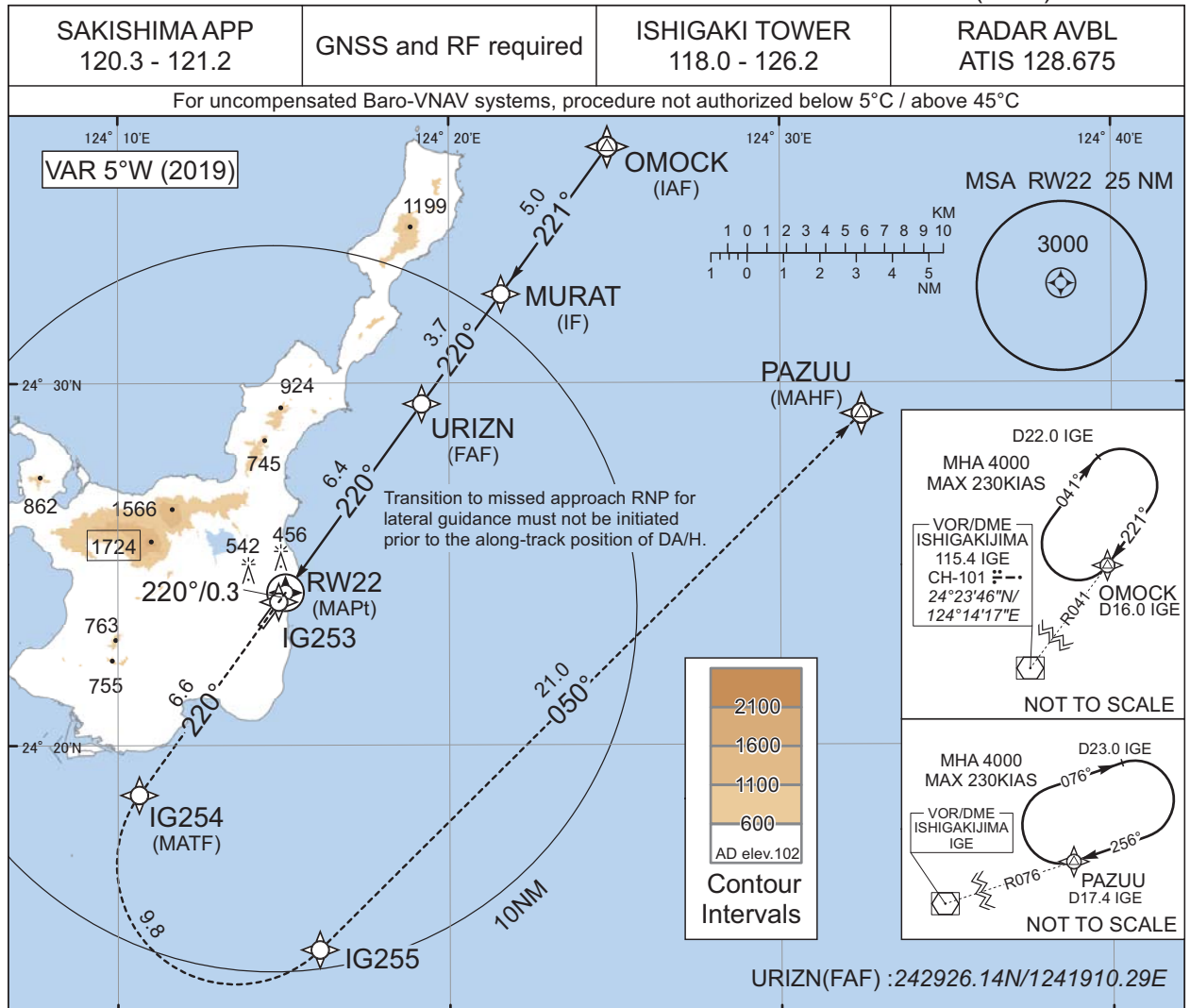
RNAV(GNSS) Z RWY22



INSTRUMENT APPROACH CHART

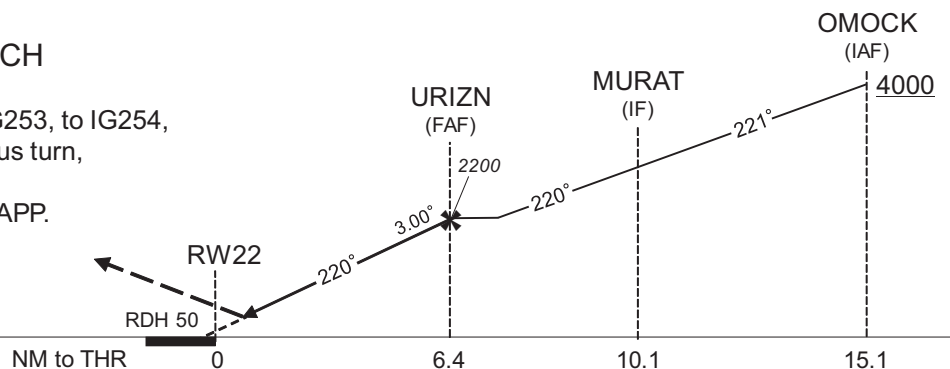
ROIG / NEW ISHIGAKI

RNAV(RNP) Y RWY22



**MISSED APPROACH**

Climb to 4000FT, to IG253, to IG254, to IG255 via fixed radius turn, to PAZUU and hold.  
Contact SAKISHIMA APP.



Missed APCH climb gradient MNM 5.0%

CAT	RNP 0.12		RNP 0.30	
	DA(H)	CMV	DA(H)	CMV
A	-	-	-	-
B	-	-	-	-
C	545(435)	1400	608(498)	1600
D	559(449)	1600	618(508)	1800

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

**RNP AR**

**Special Authorization Required**

CHANGE : New PROC



## INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

RNAV(RNP) Y RWY22

RNAV(RNP) Y RWY22Coding 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	OMOCK	-	-	-4.7	-	-	+4000	-	-	-
002	TF	MURAT	-	221 (215.8)	-4.7	5.0	-	-	-	-	1.0
003	TF	URIZN	-	220 (215.8)	-4.7	3.7	-	2200	-	-	1.0
004	TF	RW22	Y	220 (215.8)	-4.7	6.4	-	160	-	-3.00/50	0.12 0.30
005	TF	IG253	-	220 (215.7)	-4.7	0.3	-	-	-	-	0.12 0.30
006	TF	IG254	-	220 (215.7)	-4.7	6.6	-	-	-	-	1.0
007	RF Center: IGRF3 r=3.28NM	IG255	-	-	-4.7	9.8	L	-	-	-	1.0
008	TF	PAZUU	-	050 (045.2)	-4.7	21.0	-	4000	-	-	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
OMOCK	243631.66N/1242447.35E	IGRF3	241641.99N/1241333.15E
MURAT	243227.94N/1242134.19E		
URIZN	242926.14N/1241910.29E		
RW22	242413.59N/1241503.24E		
IG253	242357.98N/1241450.93E		
IG254	241837.84N/1241038.29E		
IG255	241421.38N/1241604.82E		
PAZUU	242908.99N/1243226.97E		

CHANGE : New PROC

INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

RNAV(RNP) X RWY22

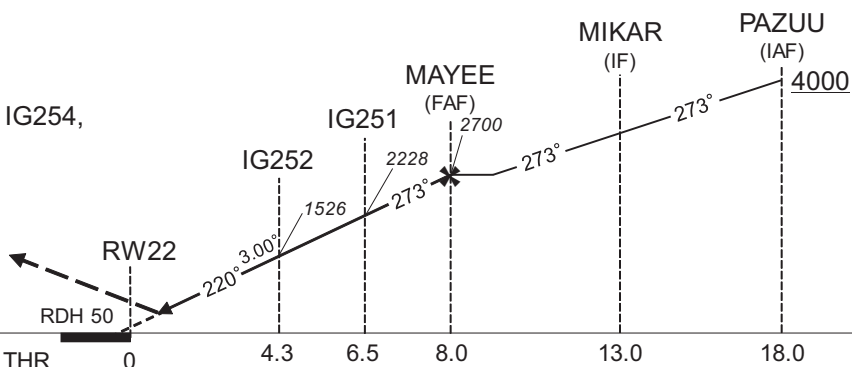
SAKISHIMA APP 120.3 - 121.2	GNSS and RF required	ISHIGAKI TOWER 118.0 - 126.2	RADAR AVBL ATIS 128.675
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For uncompensated Baro-VNAV systems, procedure not authorized below 5°C / above 45°C



MISSED APPROACH

Climb to 4000FT, to IG253, to IG254,  
to IG255 via fixed radius turn,  
to PAZUU and hold.  
Contact SAKISHIMA APP.



Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev.110	AD elev.102	RNP 0.12		RNP 0.30	
CAT	DA(H)	CMV	DA(H)	CMV	DA(H)	CMV
A	-	-	-	-	-	-
B	-	-	-	-	-	-
C	545(435)	1400	608(498)	1600	618(508)	1800
D	559(449)	1600	618(508)	1800		

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

**RNP AR**

Special Authorization Required

## INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

RNAV(RNP) X RWY22

RNAV(RNP) X RWY22Coding 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	PAZUU	-	-	-4.7	-	-	+4000	-	-	-
002	TF	MIKAR	-	273 (267.9)	-4.7	5.0	-		-	-	1.0
003	TF	MAYEE	-	273 (267.9)	-4.7	5.0	-	2700	-	-	1.0
004	TF	IG251	-	273 (267.8)	-4.7	1.5	-	2228	-	-3.00	0.12 0.30
005	RF Center: IGRF4 r=2.43NM	IG252	-	-	-4.7	2.2	L	1526	-	-3.00	0.12 0.30
006	TF	RW22	Y	220 (215.7)	-4.7	4.3	-	160	-	-3.00/50	0.12 0.30
007	TF	IG253	-	220 (215.7)	-4.7	0.3	-	-	-	-	0.12 0.30
008	TF	IG254	-	220 (215.7)	-4.7	6.6	-	-	-	-	1.0
009	RF Center: IGRF3 r=3.28NM	IG255	-	-	-4.7	9.8	L	-	-	-	1.0
010	TF	PAZUU	-	050 (045.2)	-4.7	21.0	-	4000	-	-	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
PAZUU	242908.99N/1243226.97E	IGRF4	242617.16N/1241958.19E
MIKAR	242857.97N/1242658.29E	IGRF3	241641.99N/1241333.15E
MAYEE	242846.75N/1242129.62E		
IG251	242843.38N/1241952.14E		
IG252	242742.97N/1241748.71E		
RW22	242413.59N/1241503.24E		
IG253	242357.98N/1241450.93E		
IG254	241837.84N/1241038.29E		
IG255	241421.38N/1241604.82E		

CHANGE : New PROC

ROIG / NEW ISHIGAKI

Visual REP



Call sign	BRG / DIST from ARP	Remarks
野底岳 Nosokodake	006° / 5.5NM	山 Mountain
EAST POINT	120° / 6.0NM	海上 Over the sea
竹富島 Taketomijima	250° / 9.0NM	高速艇船着場 Port
観音崎 Kannonzaki	259° / 7.5NM	灯台 Light house
川平 Kabira	309° / 6.8NM	川平湾グラスボート乗り場 Kabira Bay Boat pier
底原 Sokobaru	325° / 2.1NM	ダム Dam



ROIG / NEW ISHIGAKI

Minimum Vectoring Altitude CHART

VAR 4°W (2013)



CENTER : 244938N/1250827E (RORS RADAR SITE)  
CENTER : 242310N/1241441E (ROIG RADAR SITE)

\*1 : 244015N/1244143E RADIUS : 3NM  
\*2 : 242248N/1240952E RADIUS : 3NM  
\*3 : 242538N/1241100E RADIUS : 5NM