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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

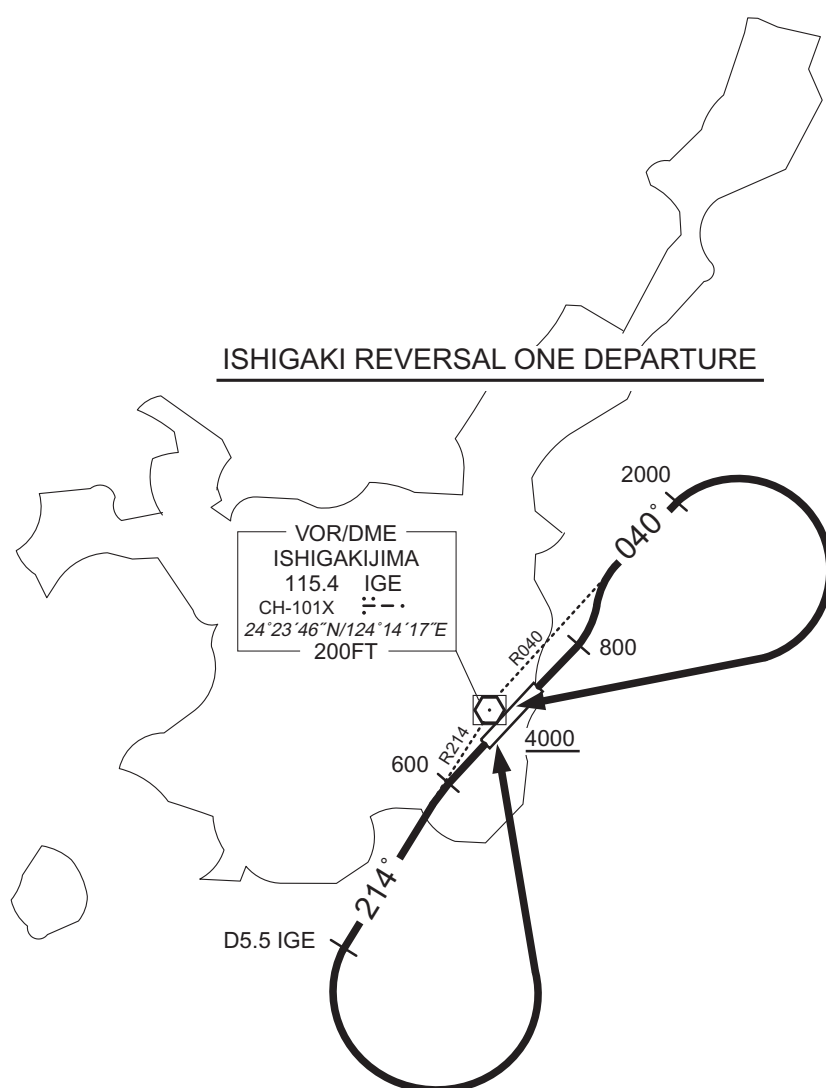
SID

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.

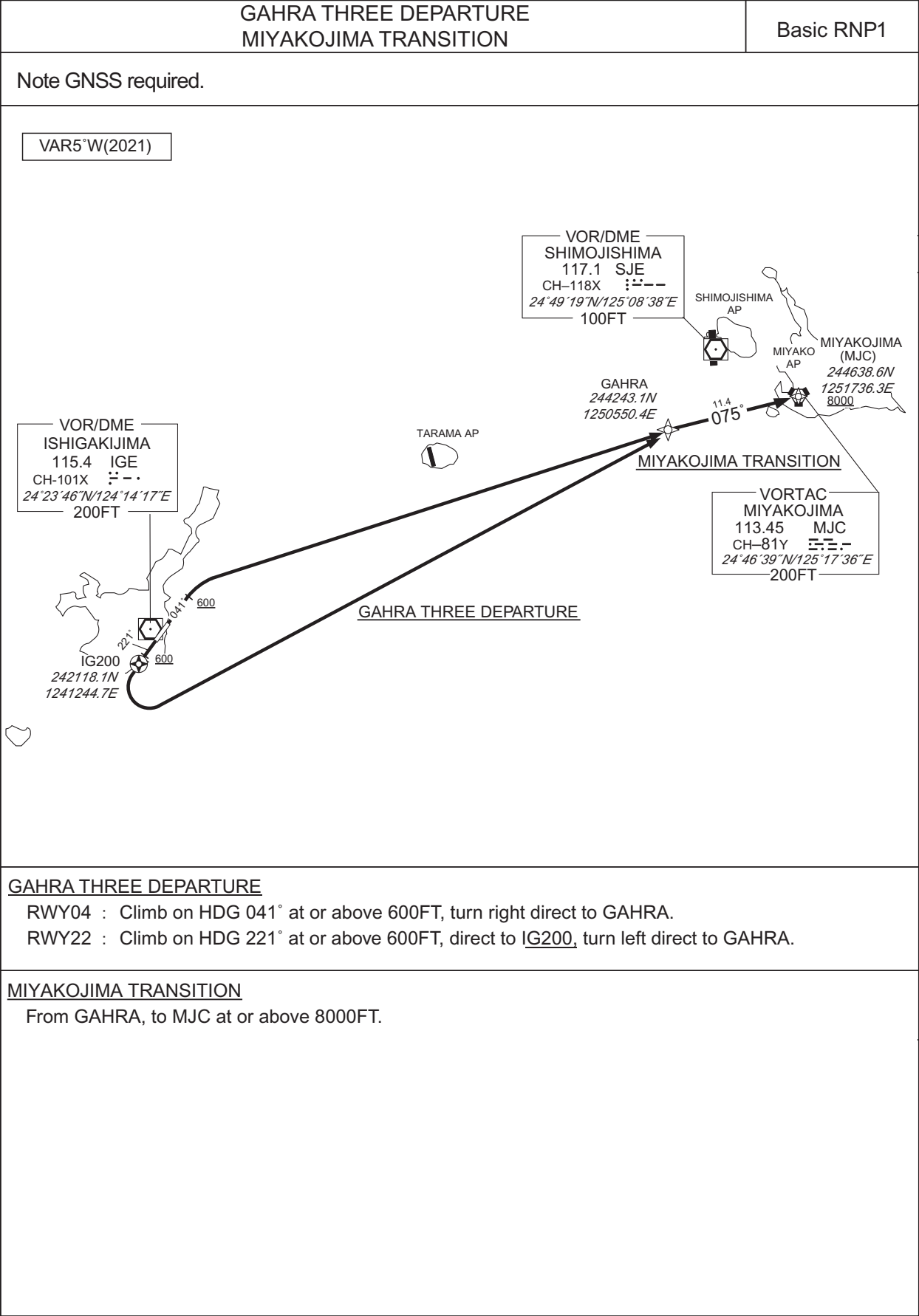
Cross KOHAM at or above 4000FT.



STANDARD DEPARTURE CHART -INSTRUMENT

ROIG / NEW ISHIGAKI

RNAV SID and TRANSITION



CHANGE : PROC renamed (GAHRA THREE DEPARTURE). Navigation specification. Sensor for RNAV.

STANDARD DEPARTURE CHART -INSTRUMENT

ROIG / NEW ISHIGAKI

RNAV SID and TRANSITION

GAHRA THREE 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	—	—	041 (035.9)	-4.9	—	—	+600	—	—	Basic RNP1
002	DF	GAHRA	—	—	-4.9	—	R	—	—	—	Basic RNP1

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	—	—	221 (215.9)	-4.9	—	—	+600	—	—	Basic RNP1
002	DF	IG200	Y	—	-4.9	—	—	—	—	—	Basic RNP1
003	DF	GAHRA	—	—	-4.9	—	L	—	—	—	Basic RNP1

MIYAKOJIMA 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	—	—	-4.9	—	—	—	—	—	Basic RNP1
002	TF	MJC	—	075 (069.8)	-4.9	11.4	—	+8000	—	—	Basic RNP1

CHANGE : PROC renamed (GAHRA THREE DEPARTURE). Navigation specification.

STANDARD DEPARTURE CHART -INSTRUMENT

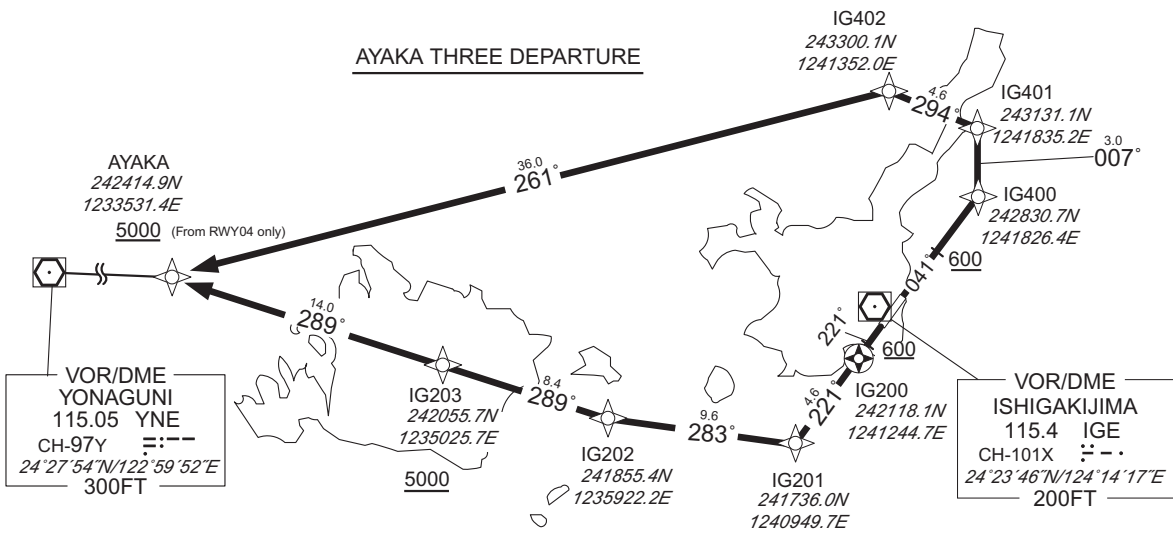
ROIG / NEW ISHIGAKI

RNAV SID

AYAKA THREE DEPARTURE	Basic RNP1
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Note GNSS required.

VAR5°W(2021)



AYAKA THREE DEPARTURE

RWY04 : Climb on HDG 041° at or above 600FT, direct to IG400, to IG401, to IG402, to AYAKA at or above 5000FT.

RWY22 : Climb on HDG 221° 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.

CHANGE : PROC renamed. Navigation specification. Sensor for RNAV.

STANDARD DEPARTURE CHART -INSTRUMENT

ROIG / NEW ISHIGAKI

RNAV SID

AYAKA THREE 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	—	—	041 (035.9)	-4.9	—	—	+600	—	—	Basic RNP1
002	DF	IG400	—	—	-4.9	—	—	—	—	—	Basic RNP1
003	TF	IG401	—	007 (002.6)	-4.9	3.0	—	—	—	—	Basic RNP1
004	TF	IG402	—	294 (289.1)	-4.9	4.6	—	—	—	—	Basic RNP1
005	TF	AYAKA	—	261 (256.1)	-4.9	36.0	—	+5000	—	—	Basic RNP1

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	—	—	221 (215.9)	-4.9	—	—	+600	—	—	Basic RNP1
002	DF	IG200	Y	—	-4.9	—	—	—	—	—	Basic RNP1
003	TF	IG201	—	221 (215.7)	-4.9	4.6	—	—	—	—	Basic RNP1
004	TF	IG202	—	283 (277.9)	-4.9	9.6	—	—	—	—	Basic RNP1
005	TF	IG203	—	289 (283.9)	-4.9	8.4	—	+5000	—	—	Basic RNP1
006	TF	AYAKA	—	289 (283.8)	-4.9	14.0	—	—	—	—	Basic RNP1

CHANGE : PROC renamed. Navigation specification.

ROIG / NEW ISHIGAKI

RNAV STAR RWY04

Note GNSS required.



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

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	—	—	-4.9	—	—	+8000	—	—	Basic RNP1
002	TF	MASAN	—	235 (230.5)	-4.9	46.1	—	—	—	—	Basic RNP1
003	TF	YAIMA	—	221 (215.8)	-4.9	23.2	—	—	-230	—	Basic RNP1
004	TF	JOTTO	—	310 (305.5)	-4.9	5.0	—	+3000	—	—	Basic RNP1

STANDARD ARRIVAL CHART-INSTRUMENT

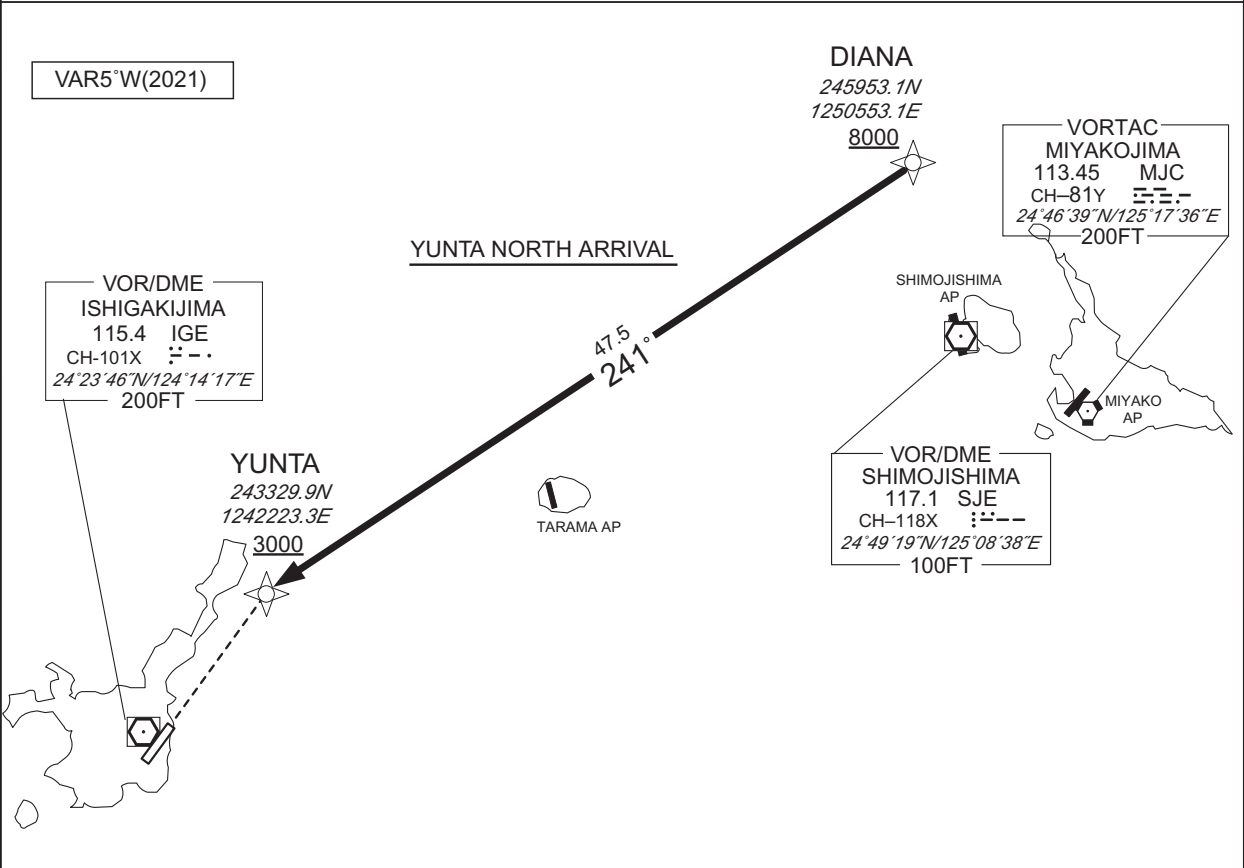
ROIG / NEW ISHIGAKI

RNAV STAR RWY22

YUNTA NORTH ARRIVAL

Basic RNP1

Note GNSS required.



YUNTA NORTH ARRIVAL

From DIANA at or above 8000FT, to YUNTA at or above 3000FT.

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	—	—	-4.9	—	—	+8000	—	—	Basic RNP1
002	TF	YUNTA	—	241 (236.4)	-4.9	47.5	—	+3000	—	—	Basic RNP1

CHANGE : Navigation specification. Sensor for RNAV.

STANDARD ARRIVAL CHART-INSTRUMENT

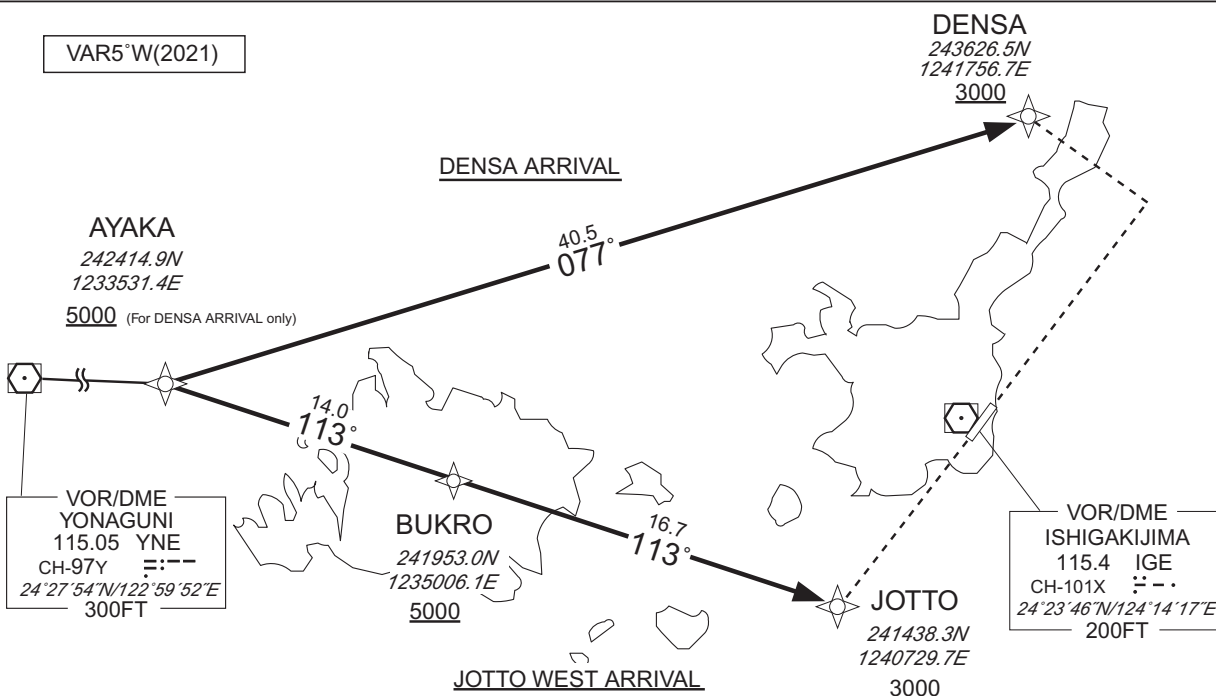
ROIG / NEW ISHIGAKI

RNAV STAR RWY04/RWY22

DENSA ARRIVAL / JOTTO WEST ARRIVAL

Basic RNP1

Note GNSS required.



DENSA ARRIVAL

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

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	—	—	-4.9	—	—	+5000	—	—	Basic RNP1
002	TF	DENSA	—	077 (072.3)	-4.9	40.5	—	+3000	—	—	Basic RNP1

JOTTO WEST ARRIVAL

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

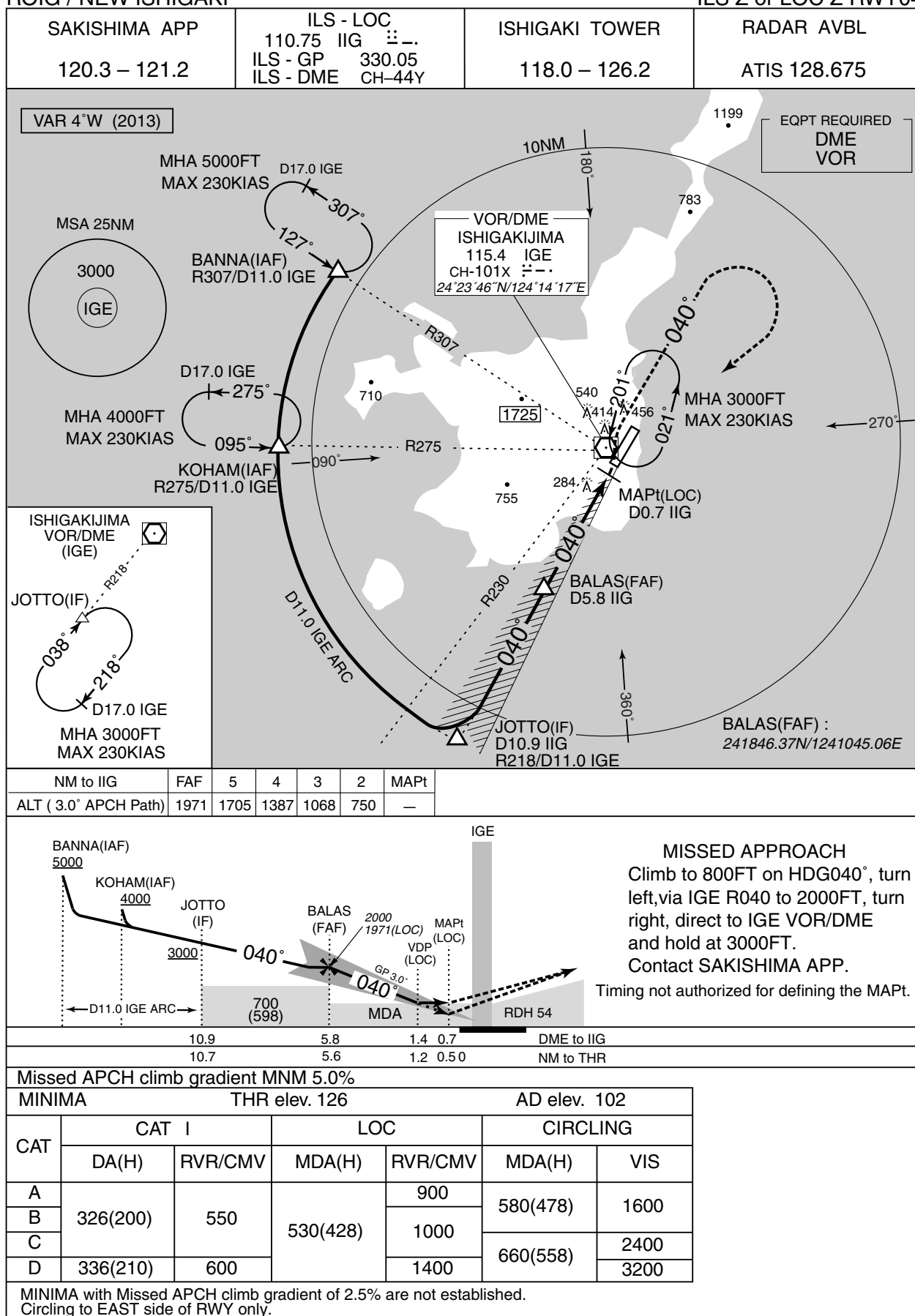
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AYAKA	—	—	-4.9	—	—	—	—	—	Basic RNP1
002	TF	BUKRO	—	113 (108.1)	-4.9	14.0	—	+5000	—	—	Basic RNP1
003	TF	JOTTO	—	113 (108.2)	-4.9	16.7	—	+3000	—	—	Basic RNP1

CHANGE : Navigation specification. Sensor for RNAV.

INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

ILS Z or LOC Z RWY04



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

IGE 3000

BALAS (FAF) 2000

1971(LOC)

MAPt (LOC)

VDP (LOC)

GP 3.0°

MDA

RDH 54

700 (598)

2600

040°

201°

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.

Missed APCH climb gradient MNM 5.0%	5.8	1.4	0.7	DME to IIG
	5.6	1.2	0.50	NM to THR

MINIMA	THR elev. 126	AD elev. 102
CAT	CAT I	LOC
	DA(H)	RVR/CMV
A	326(200)	550
B		
C		
D	336(210)	600

CAT	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

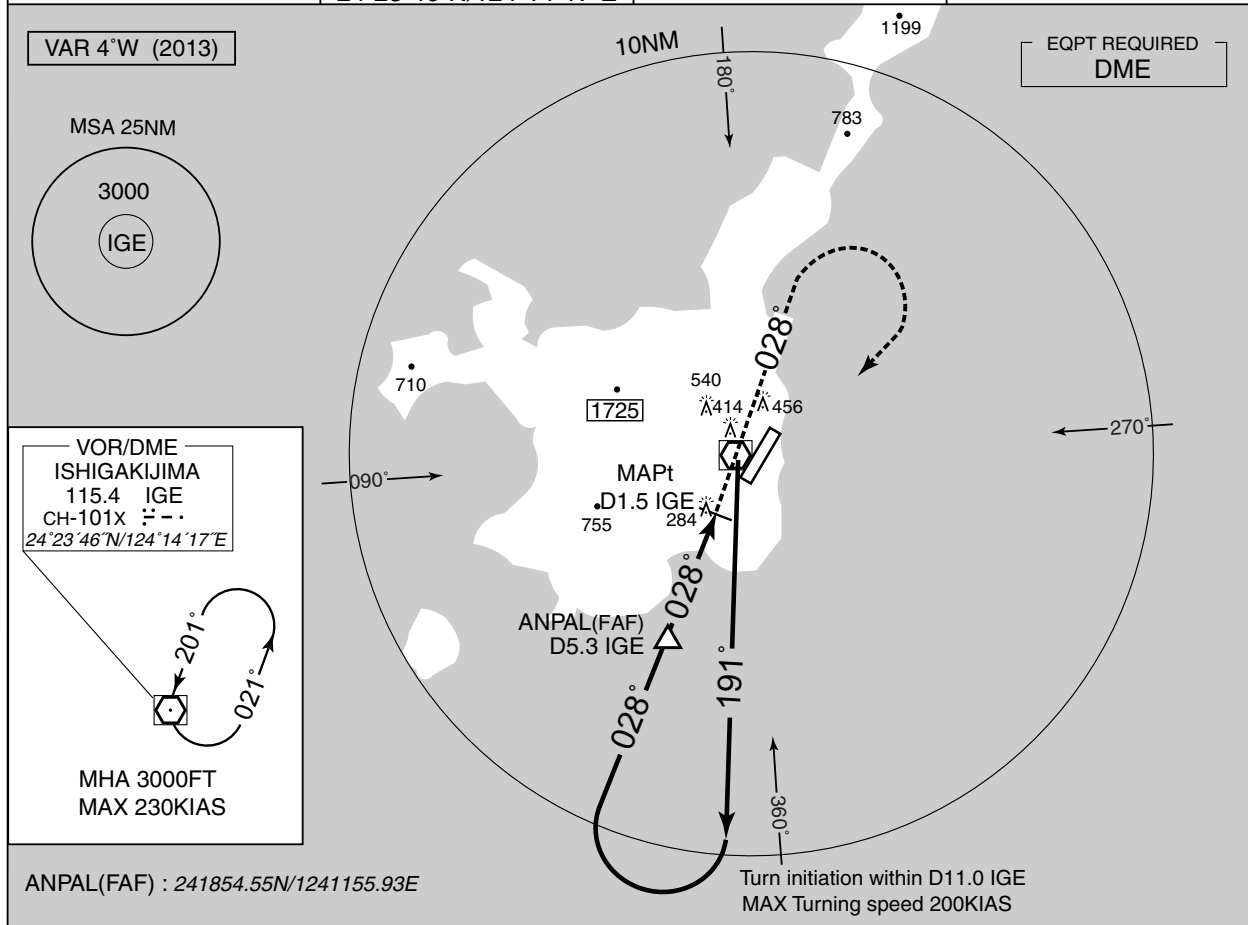
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to EAST side of RWY only.

INSTRUMENT APPROACH CHART

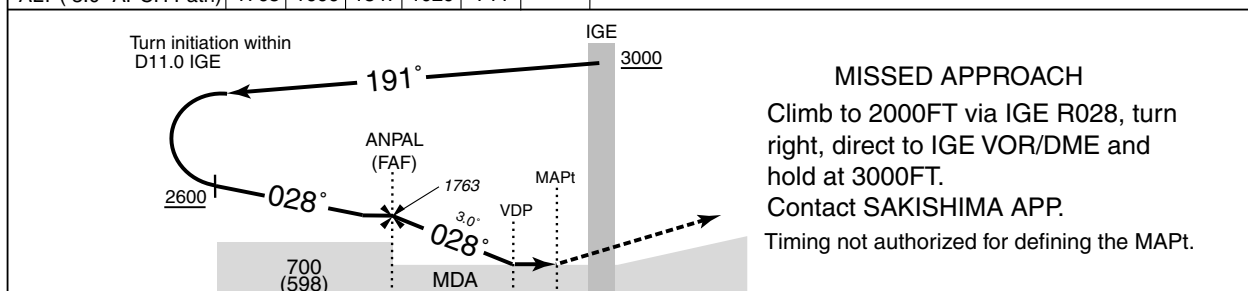
ROIG / NEW ISHIGAKI

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	MDA(H)	RVR/CMV	CIRCLING
A	540(438)	900	580(478)
B		1000	1600
C		1400	2400
D			3200

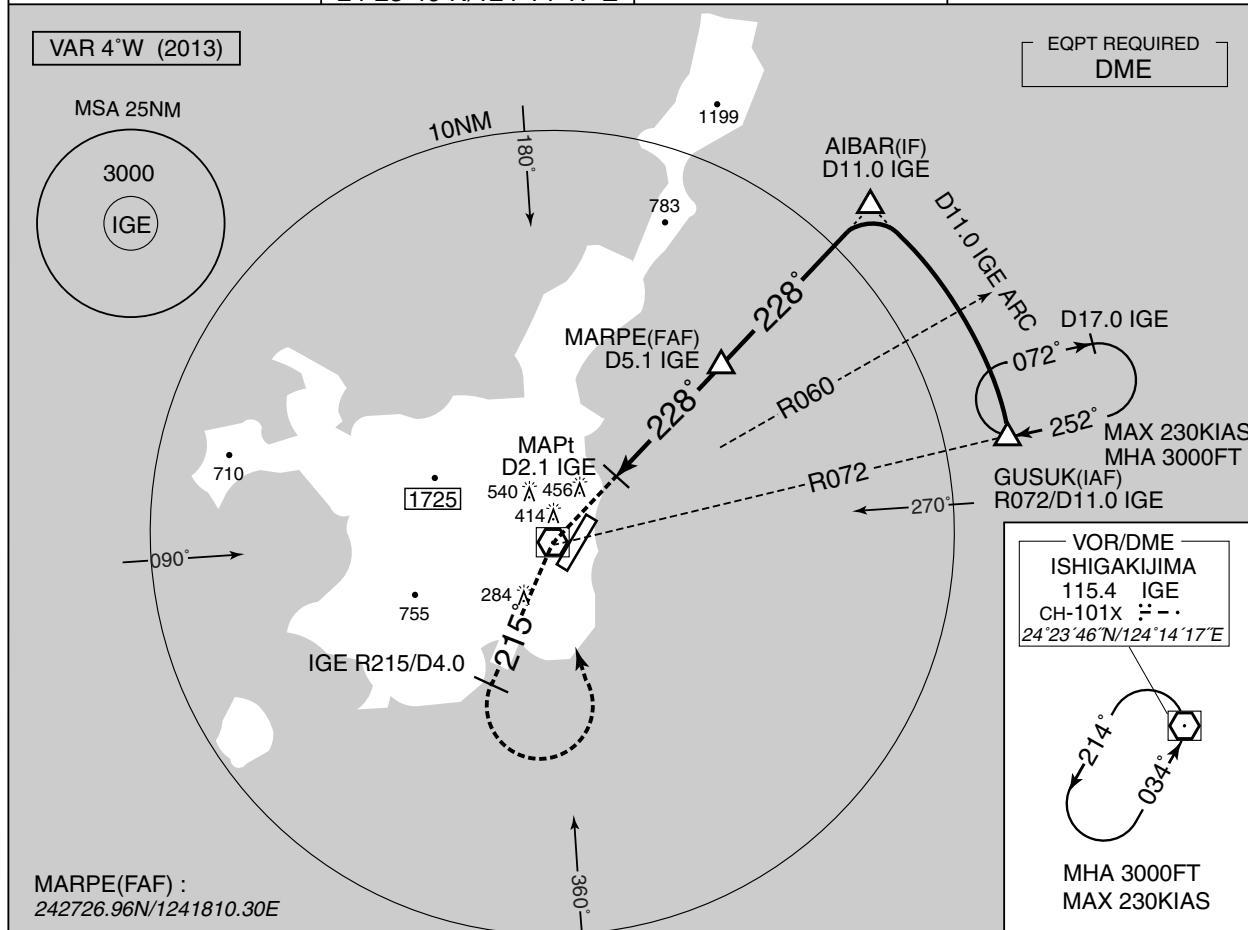
Circling to EAST side of RWY only.

INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

VOR Z RWY22

SAKISHIMA APP	ISHIGAKIJIMA VOR/DME 115.4 IGE CH-101X 101.3 24°23'46"N/124°14'17"E	ISHIGAKI TOWER 118.0 – 126.2	RADAR AVBL ATIS 128.675
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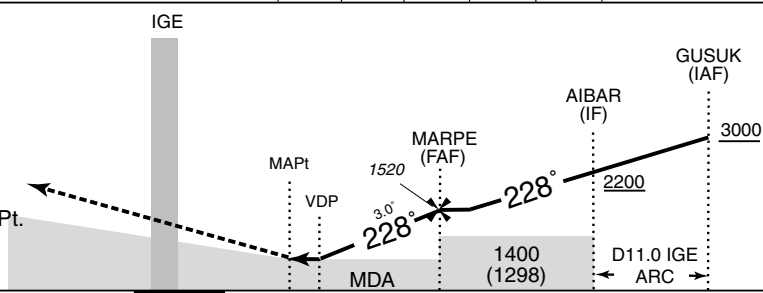


MAPt	3	4	5	FAF	NM to IGE
—	845	1163	1481	1520	ALT (3.0° APCH Path)

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	11.0
NM to THR	0	1.3	1.4	4.3	10.2

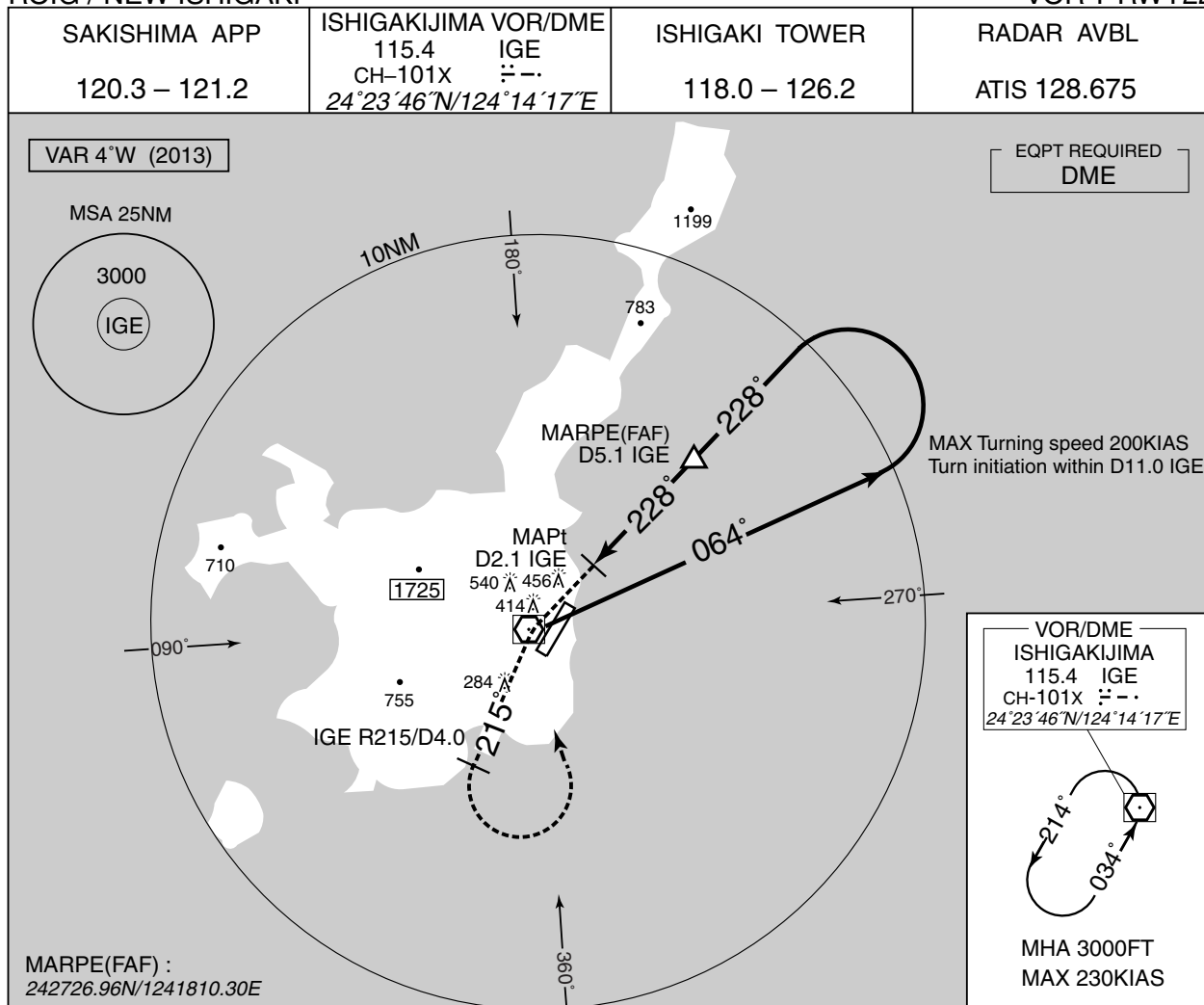
MINIMA		THR elev. 110		AD elev. 102	
CAT			CIRCLING		
	MDA(H)	CMV	MDA(H)	VIS	
A	580(478)	1400	580(478)	1600	
B		1500			
C		1600	660(558)	2400	
D		1800		3200	

Circling to EAST side of RWY only.

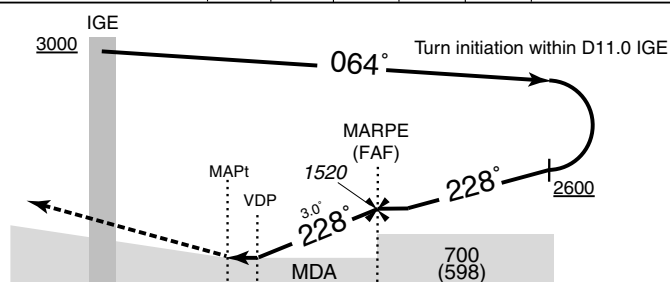
INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

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.

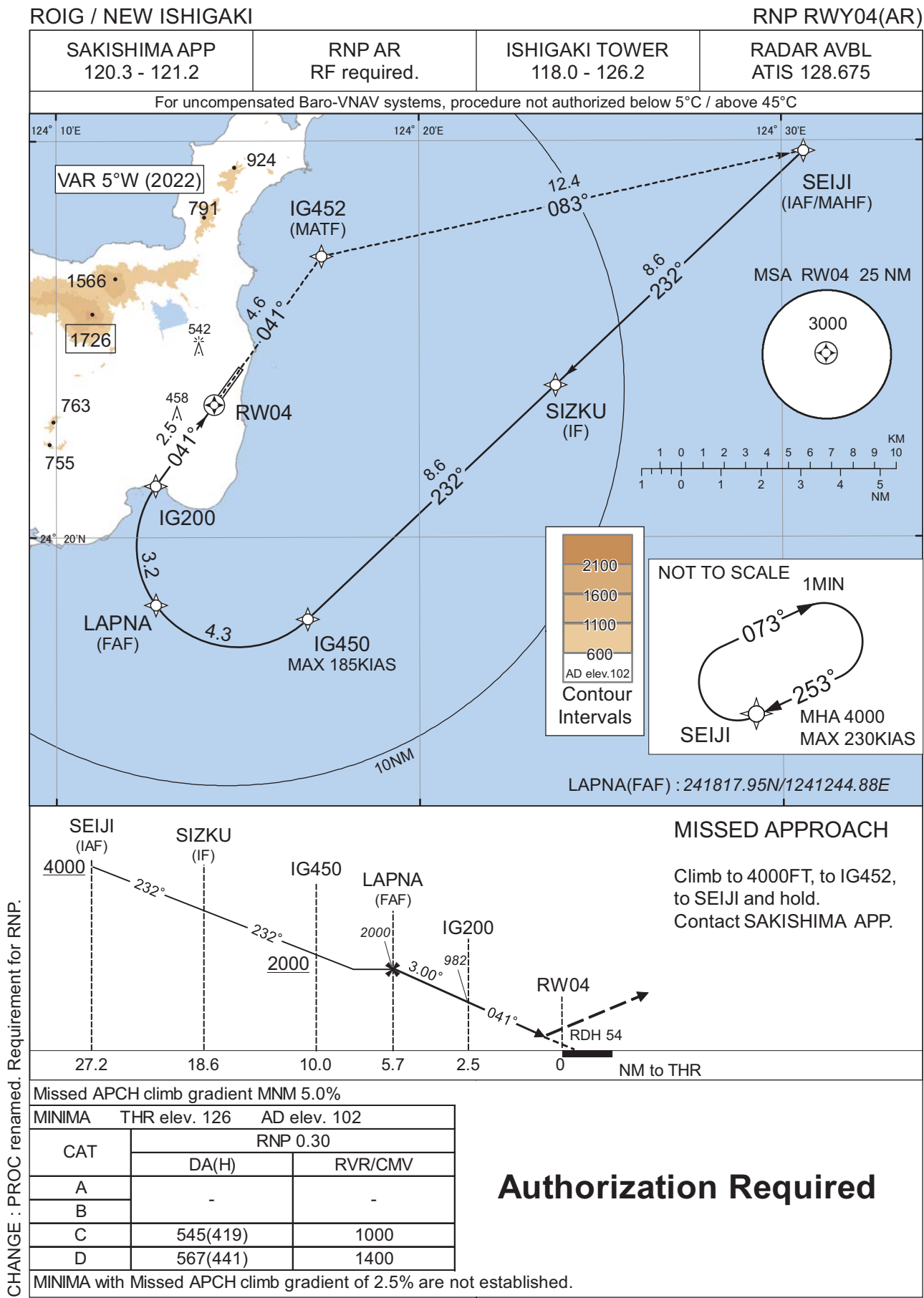


DME to IGE	2.1	2.2	5.1	
NM to THR	0	1.3	1.4	4.3

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



INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

RNP RWY04(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	SEIJI	-	-	-5.0	-	-	+4000	-	-	-
002	TF	SIZKU	-	232 (226.6)	-5.0	8.6	-	-	-	-	1.0
003	TF	IG450	-	232 (226.6)	-5.0	8.6	-	+2000	-185	-	1.0
004	RF Center: IGRF1 r=2.55NM	LAPNA	-	-	-5.0	4.3	R	2000	-	-	1.0
005	RF Center: IGRF1 r=2.55NM	IG200	-	-	-5.0	3.2	R	982	-	-3.00	0.3
006	TF	RW04	Y	041 (035.7)	-5.0	2.5	-	180	-	-3.00/54	0.3
007	TF	IG452	-	041 (035.7)	-5.0	4.6	-	-	-	-	1.0
008	TF	SEIJI	-	083 (077.6)	-5.0	12.4	-	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	SEIJI	253 (248.2)	-5.0	1.0 (-14000)	R	4000	FL140	-230 (-14000)	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 : PROC renamed.

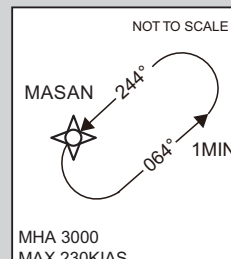
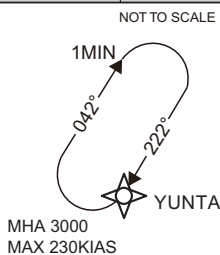
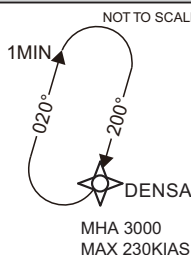
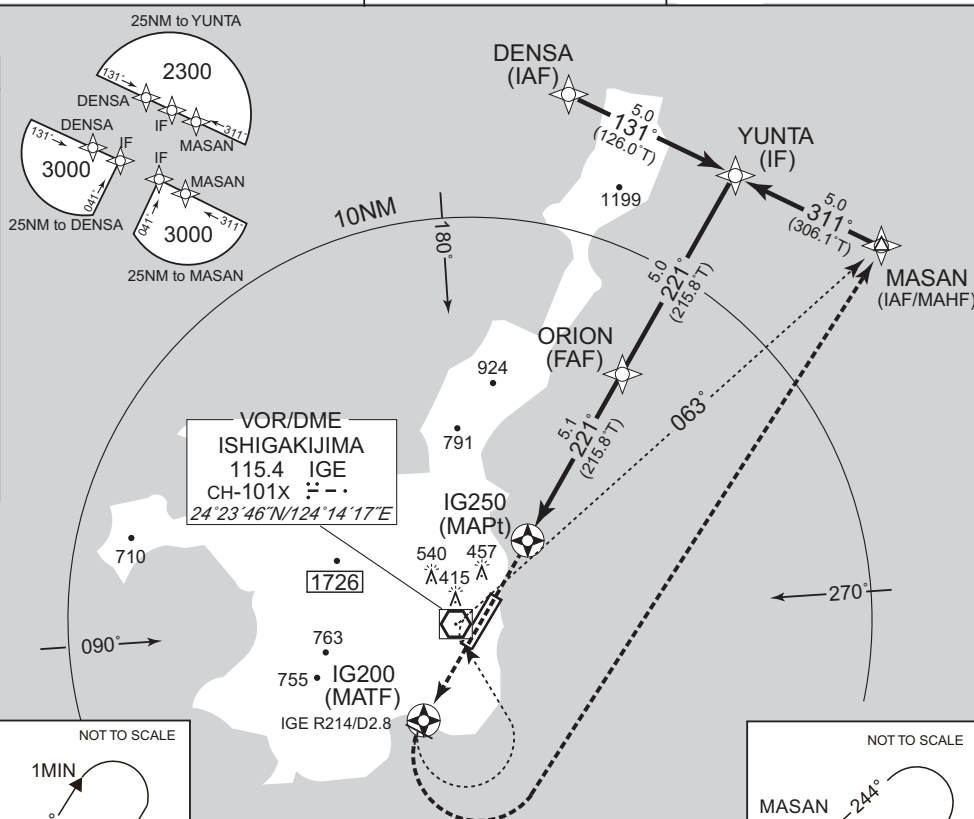
ROIG / NEW ISHIGAKI

RNP Z RWY22

SAKISHIMA APP	RNP APCH	ISHIGAKI TOWER	RADAR AVBL
120.3 – 121.2		118.0 – 126.2	ATIS 128.675

VAR 5°W (2021)

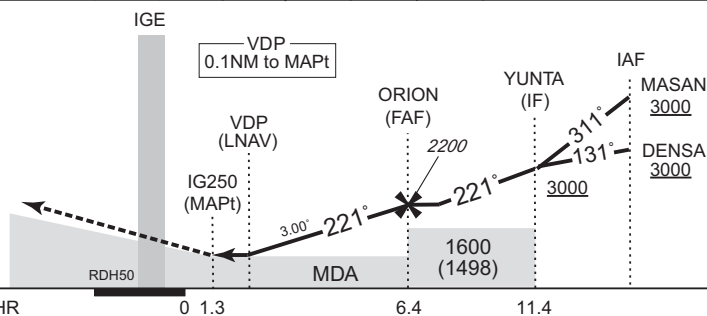
MASAN (IAF/MAHF)	243033.23N 1242649.67E
DENSA (IAF)	243626.47N 1241756.68E
YUNTA (IF)	243329.91N 1242223.28E
ORION (FAF)	242926.13N 1241910.28E
IG250 (MAPt)	242517.00N 1241553.33E
IG200 (MATF)	242118.09N 1241244.70E



MAPt	1	2	3	4	5	FAF	NM to Next Fix
—	892	1210	1528	1847	2165	2200	ALT / 3.0° APCH Path

Climb direct to IG200, turn left direct to MASAN and hold at 3000FT.
Contact SAKISHIMA APP

(For using VOR/DME)
Climb to 600FT on HDG220° via IGE R214 to IGE
R214/2.8DME, turn left, direct to IGE VOR/DME, via
IGE R063 to MASAN and hold at 3000FT.
Contact SAKISHIMA APP.



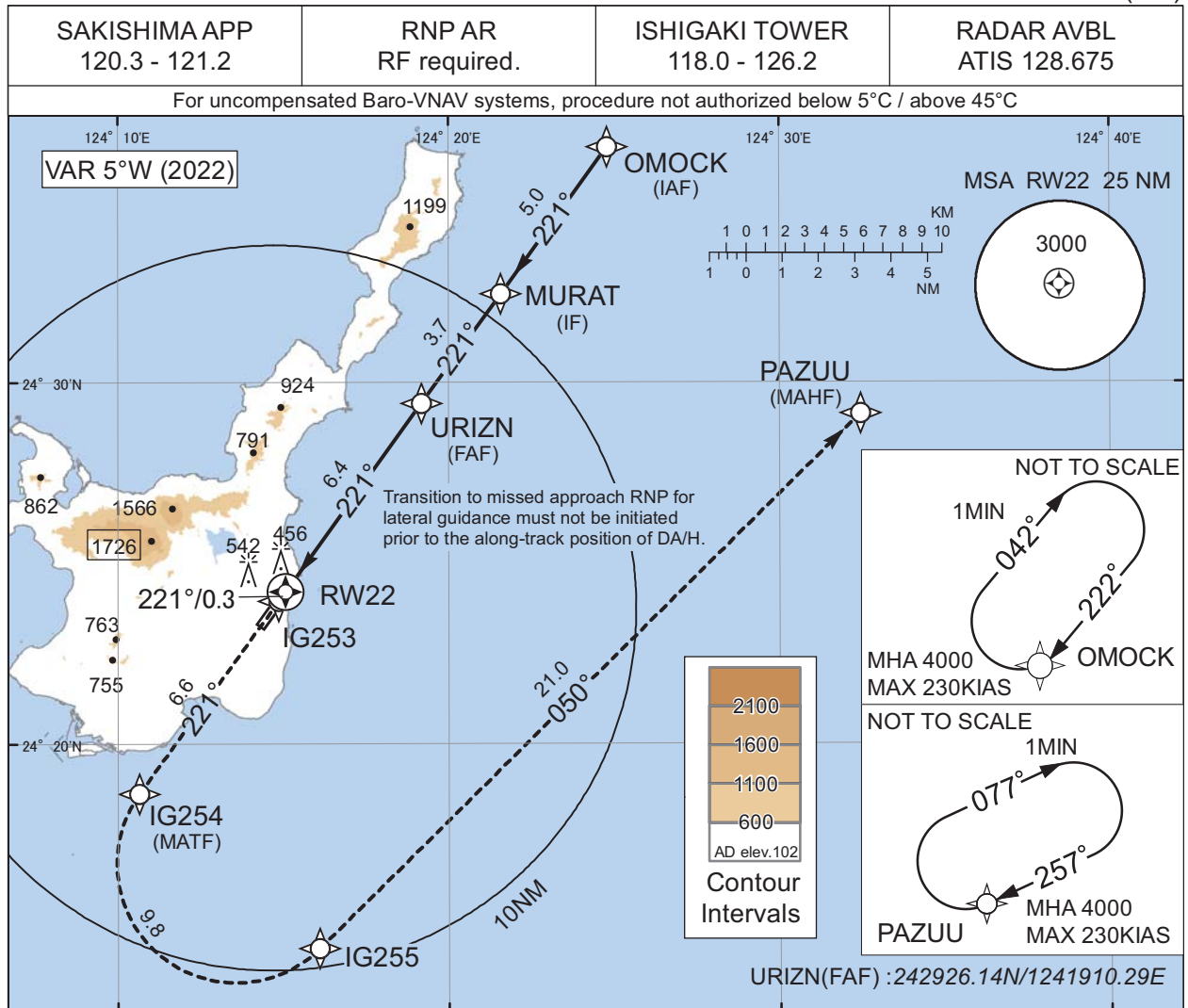
MINIMA		THR elev.110		AD elev.102		
CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	CMV	MDA(H)	CMV	MDA (H)	VIS
A	580(470)	1400	580(478)	1400	580(478)	1600
B		1500		1500		
C		1600		1600	660(558)	2400
D		1800		1800		3200

Circling to EAST side of RWY only.

INSTRUMENT APPROACH CHART

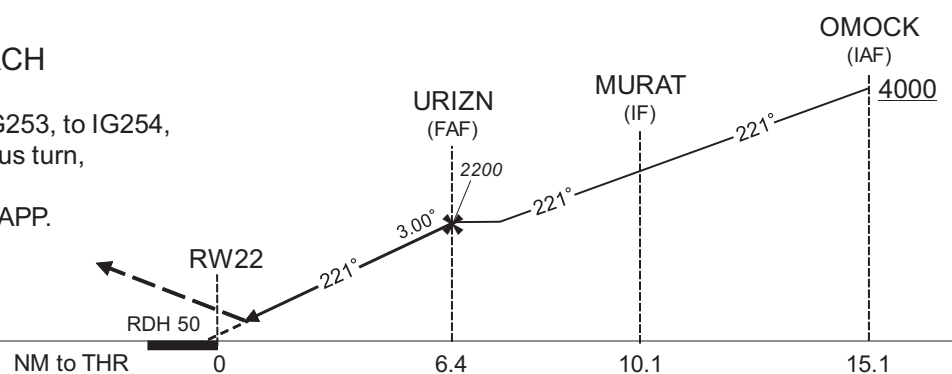
ROIG / NEW ISHIGAKI

RNP Y RWY22(AR)



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.

Authorization Required

CHANGE : PROC renamed. Requirement for RNP.

INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

RNP Y RWY22(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	OMOCK	-	-	-5.0	-	-	+4000	-	-	-
002	TF	MURAT	-	221 (215.8)	-5.0	5.0	-	-	-	-	1.0
003	TF	URIZN	-	221 (215.8)	-5.0	3.7	-	2200	-	-	1.0
004	TF	RW22	Y	221 (215.8)	-5.0	6.4	-	160	-	-3.00/50	0.12 0.30
005	TF	IG253	-	221 (215.7)	-5.0	0.3	-	-	-	-	0.12 0.30
006	TF	IG254	-	221 (215.7)	-5.0	6.6	-	-	-	-	1.0
007	RF Center: IGRF3 r=3.28NM	IG255	-	-	-5.0	9.8	L	-	-	-	1.0
008	TF	PAZUU	-	050 (045.2)	-5.0	21.0	-	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	OMOCK	222 (216.9)	-5.0	1.0 (-14000)	R	4000	FL140	-230 (-14000)	1.0
Hold	PAZUU	257 (252.1)	-5.0	1.0 (-14000)	R	4000	FL140	-230 (-14000)	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 : PROC renamed.

ROIG / NEW ISHIGAKI

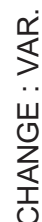
Visual REP



※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).

CHANGE : Map updated. BRG/DIST from ARP.

Call sign	BRG / DIST from ARP	Remarks
野底岳 Nosokodake	002°T / 5.5NM	山 Mountain
イーストポイント East Point	120°T / 6.0NM	海上 Over the sea
竹富島 Taketomijima	246°T / 9.0NM	高速艇船着場 Port
観音崎 Kannonzaki	256°T / 7.5NM	灯台 Light house
川平 Kabira	304°T / 6.8NM	川平湾グラスポート乗り場 Kabira Bay Boat pier
底原 Sokobaru	322°T / 2.1NM	ダム Dam



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Minimum Vectoring Altitude CHART

