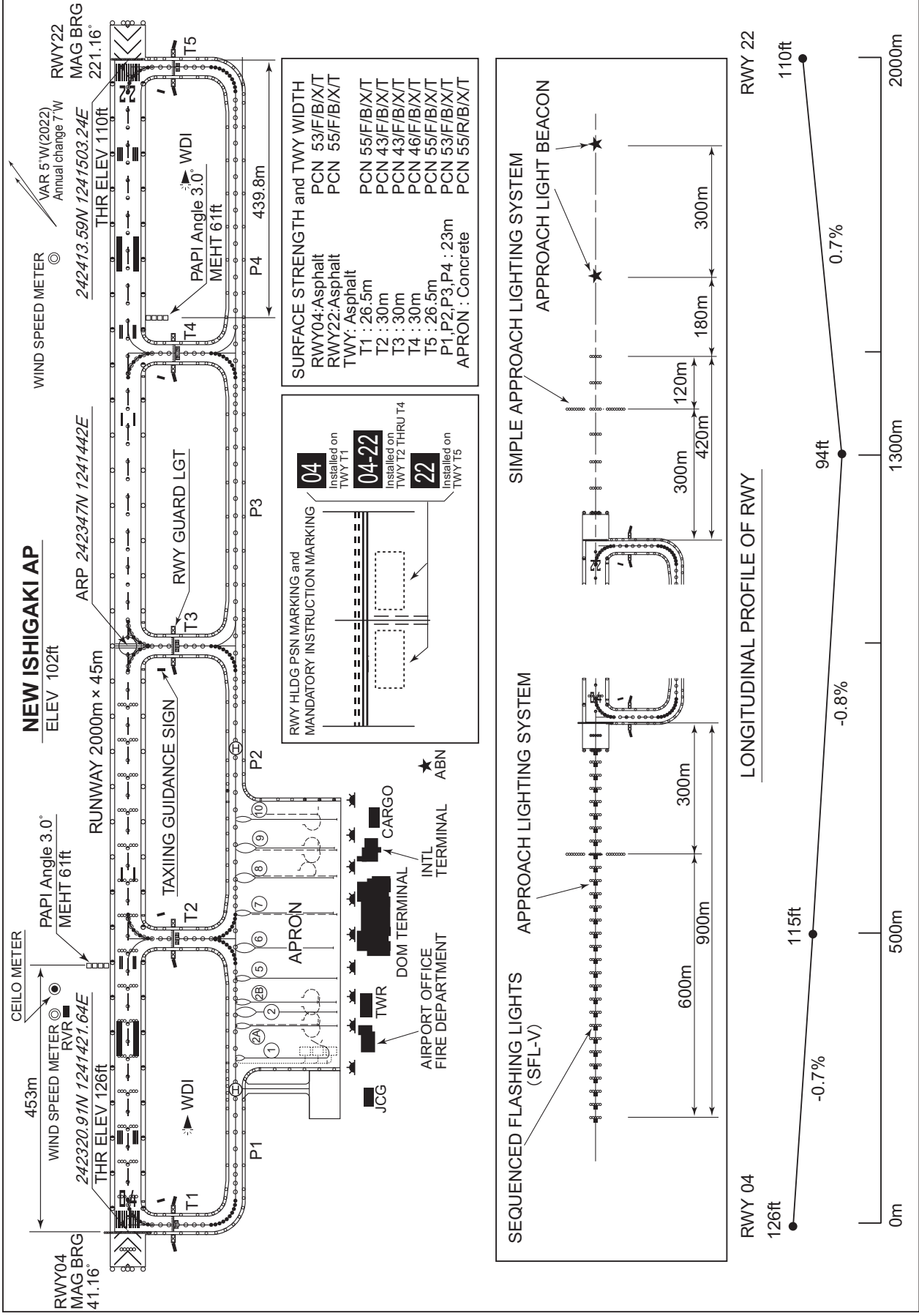


ROIG / NEW ISHIGAKI

AD CHART

CHANGE : ACFT lead-in line for SPOT 8 abolished.



INTENTIONALLY LEFT BLANK

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.



CHANGE : Description of PROC name.

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.

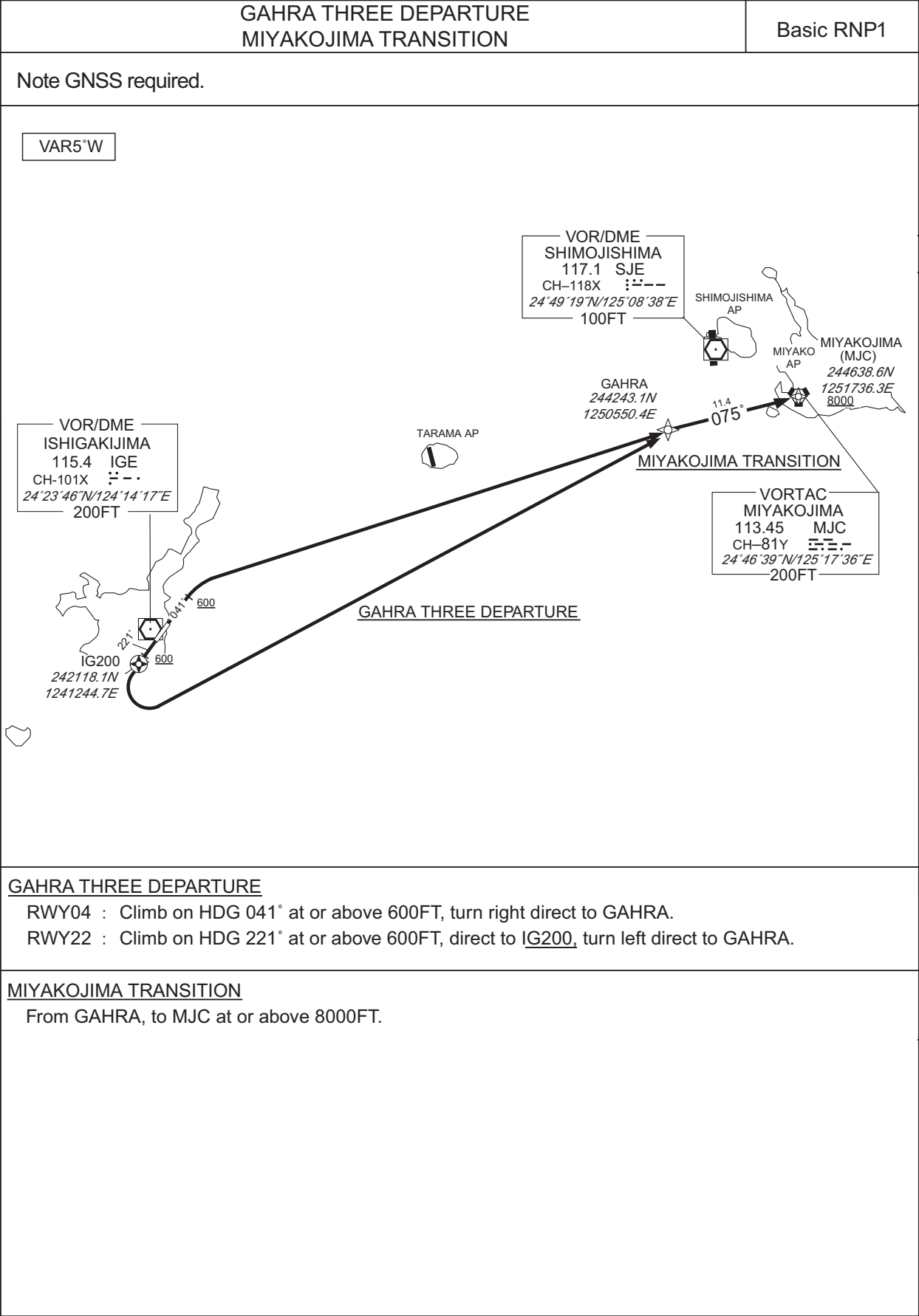
CHANGE : Description of PROC name.



STANDARD DEPARTURE CHART -INSTRUMENT

ROIG / NEW ISHIGAKI

RNAV SID and TRANSITION



CHANGE : Description of VAR.

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

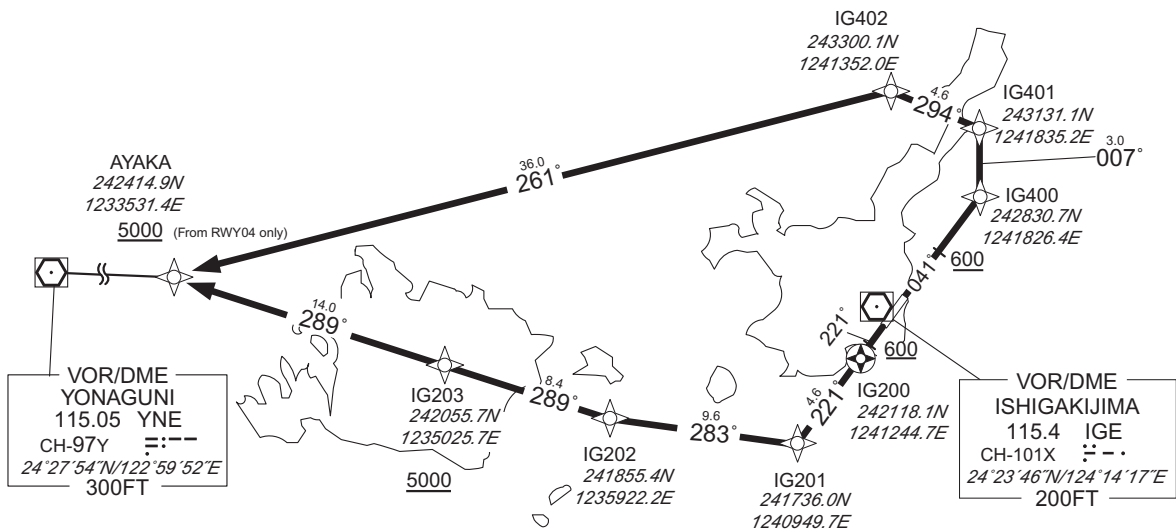
ROIG / NEW ISHIGAKI

RNAV SID

AYAKA THREE DEPARTURE	Basic RNP1
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Note GNSS required.

VAR5°W



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 : Description of VAR and PROC name.

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.

STANDARD ARRIVAL CHART-INSTRUMENT

ROIG / NEW ISHIGAKIRNAV STAR RWY04 / RWY22

MASAN ARRIVAL

Basic RNP1

Note GNSS required.

VAR5°W

DIANA

245953.1N

1250553.1E

8000

46.1

236°

VOR/DME

ISHIGAKIJIMA

115.4 IGE

CH-101X

24°23'46"N/124°14'17"E

200FT

MASAN

243033.2N

1242649.7E

3000

VOR/DME

SHIMOJISHIMA

117.1 SJE

CH-118X

24°49'19"N/125°08'38"E

100FT

VORTAC

MIYAKOJIMA

113.45 MJC

CH-81Y

24°46'39"N/125°17'36"E

200FT

SHIMOJISHIMA AP

MIYAKO AP

TARAMA AP

From DIANA at or above 8000FT, to MASAN 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	—	—	-5.1	—	—	+8000	—	—	Basic RNP1
002	TF	MASAN	—	236 (230.5)	-5.1	46.1	—	+3000	—	—	Basic RNP1

CHANGE : New PROC.

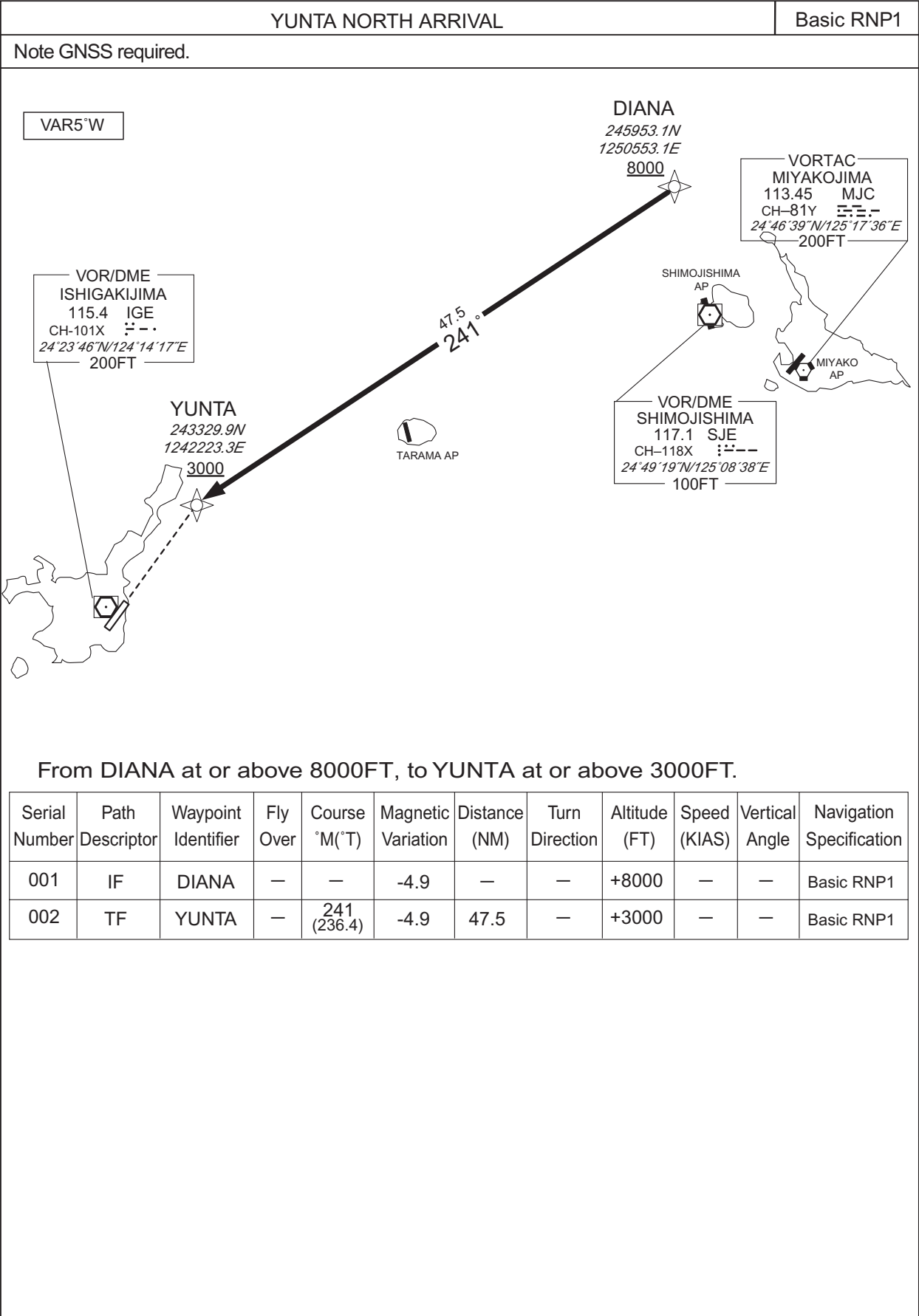
Civil Aviation Bureau,Japan (EFF:15 JUN 2023)

18/5/23

STANDARD ARRIVAL CHART-INSTRUMENT

ROIG / NEW ISHIGAKI

RNAV STAR RWY22

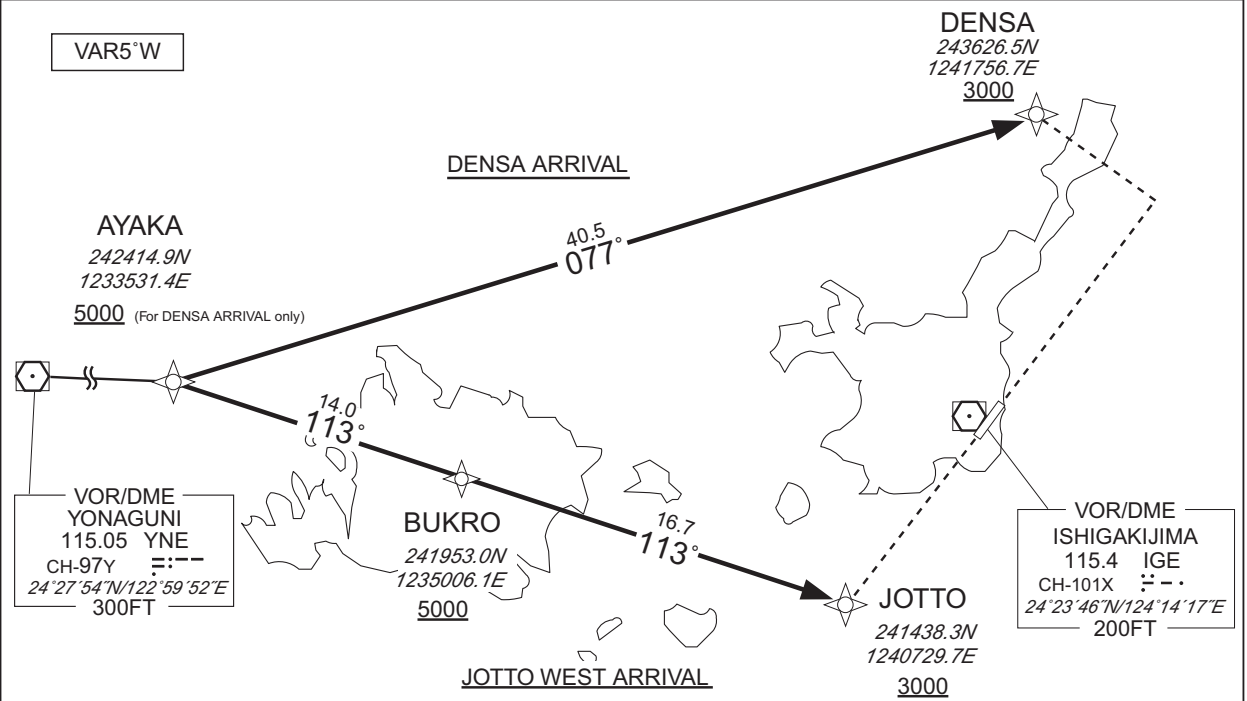


STANDARD ARRIVAL CHART-INSTRUMENT

ROIG / NEW ISHIGAKI RNAV STAR RWY04/RWY22

DENSA ARRIVAL / JOTTO WEST ARRIVAL	Basic RNP1
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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

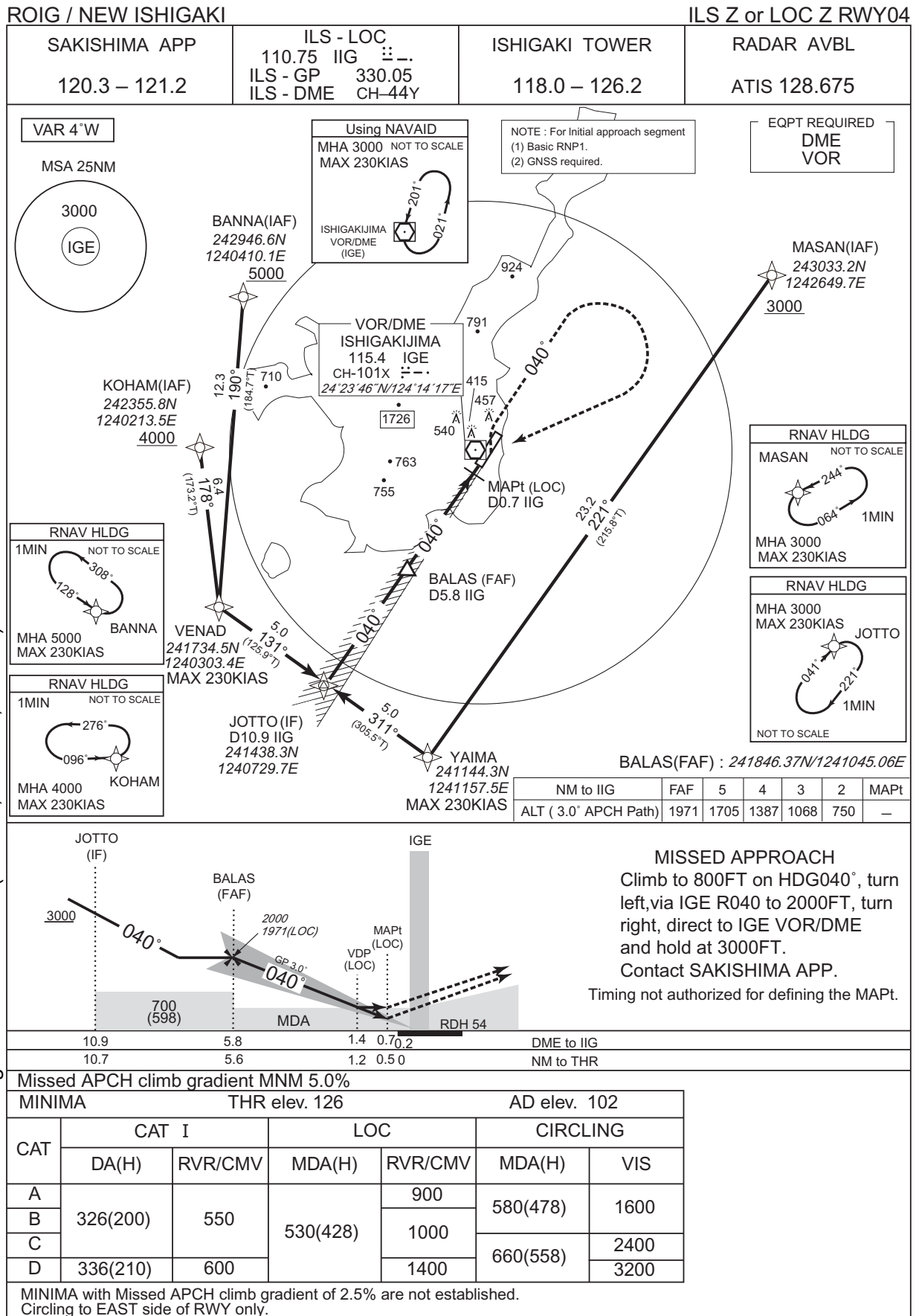
From AYAKA, to BUKRO at or above 5000FT, to JOTTO at or above 3000FT.

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 : Description of VAR.

INSTRUMENT APPROACH CHART

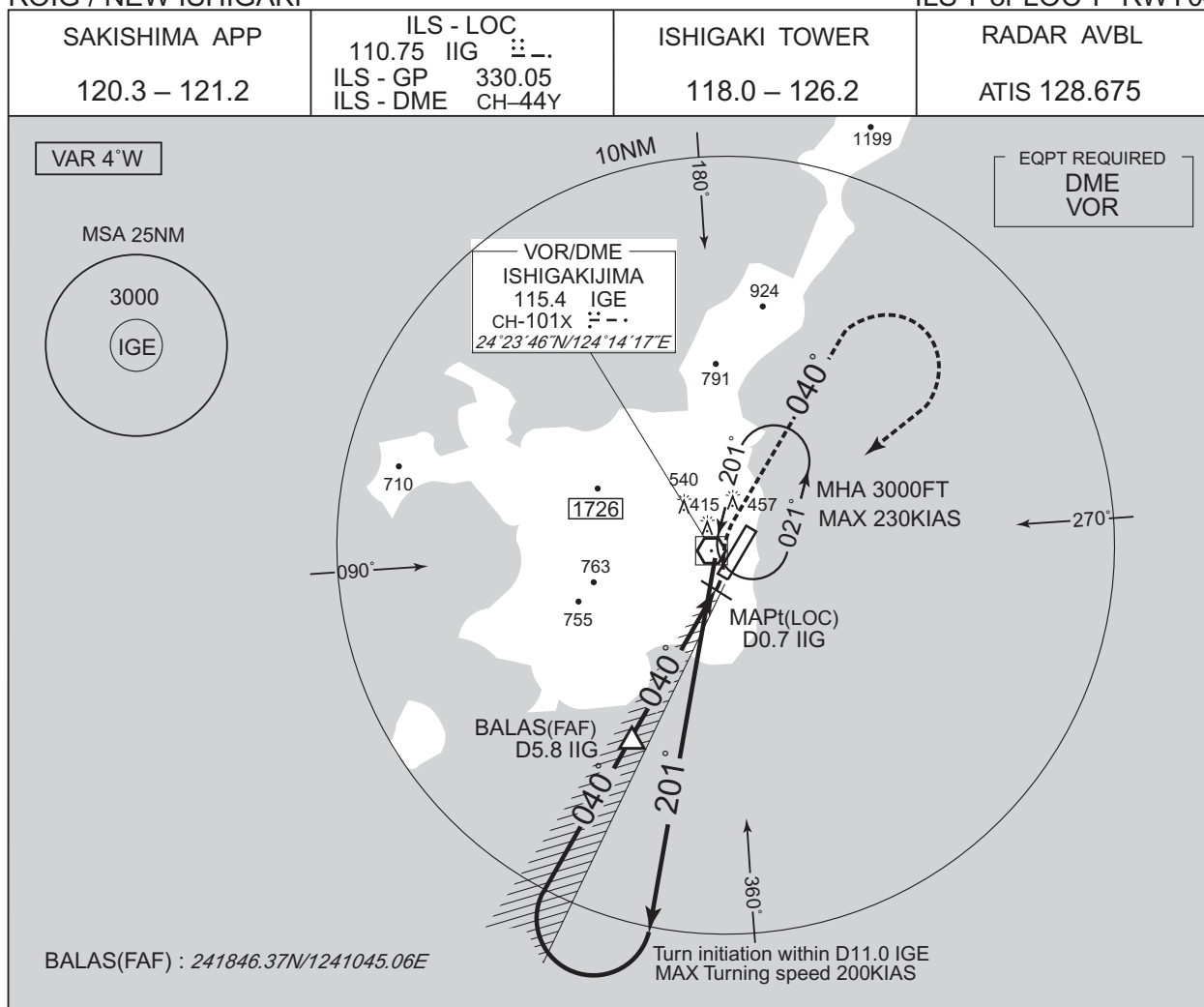
CHANGE : PROC course. VENAD established. RNAV HLDG established(BANNA, KOHAM, MASAN, JOTTO).
HLDG for using NAVAID abolished(BANNA, KOHAM, JOTTO).



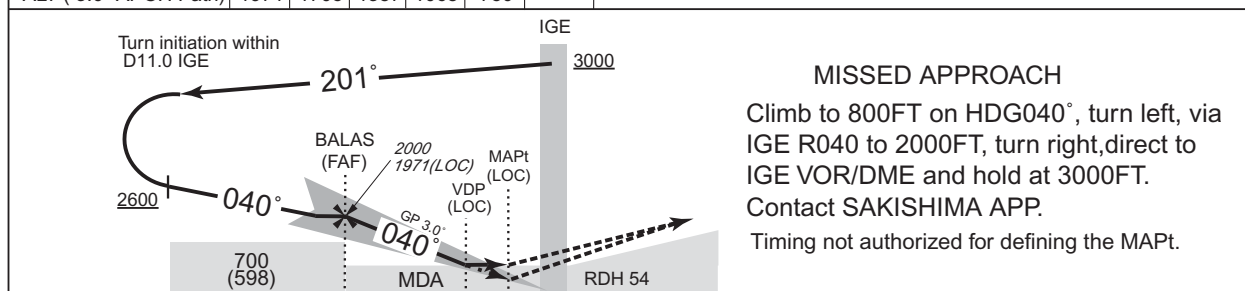
INSTRUMENT APPROACH CHART

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	—



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

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.

CHANGE : Description of VAR.

ROIG / NEW ISHIGAKI

ILS X RWY04

VAR 4°W

MSA 25NM

3000

ARP

ARP: 242347N/1241442E

-090°

EQPT REQUIRED

DME

Basic RNP1 RF required.

1726

ISHIGAKIJIMA(IGE) (MAHF)

763

755

ENDEG(FAF) D4.0 IIG

IG451 D5.5 IIG

2000

041°

040°

7.9

5.0

221°

KIDAK

LAKUL (IF) MAX 200KIAS

MASAN (IAF)

12.8

221°

RNAV HLDG NOT TO SCALE

MASAN

MHA 3000 MAX 230KIAS

244°

064°

1MIN

RNAV HLDG NOT TO SCALE

ISHIGAKIJIMA (IGE)

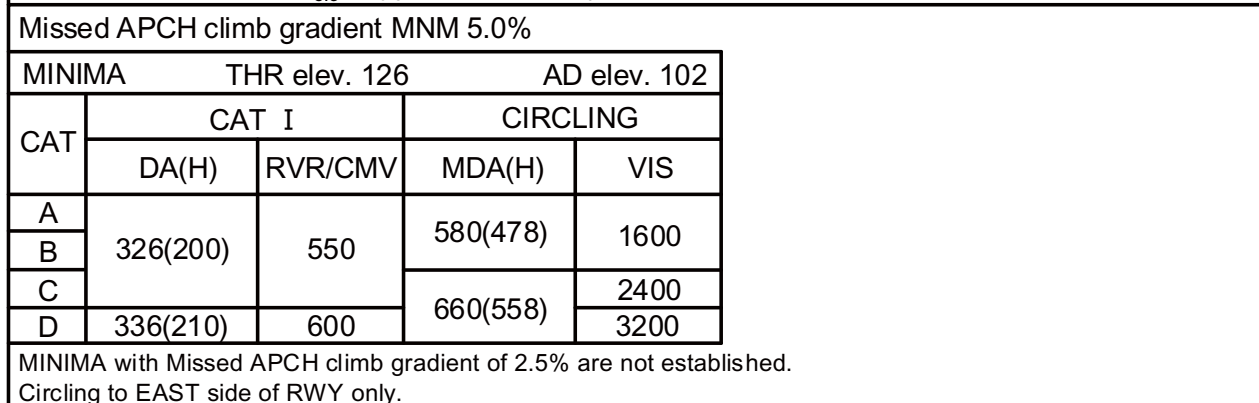
MHA 3000 MAX 230KIAS

203°

023°

1MIN

ENDEG(FAF) : 242015.94N/1241155.67E



18/5/23

INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

ILS X RWY04

Coding 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	IF	MASAN	—	—	-5.1	—	—	+3000	—	—	Basic RNP1
002	TF	KIDAK	—	221 (215.8)	-5.1	12.8	—	—	—	—	Basic RNP1
003	TF	LAKUL	—	221 (215.7)	-5.1	5.0	—	—	-200	—	Basic RNP1
004	RF Center: IGRF2 r=2.50NM	IG451	—	—	-5.1	7.9	R	1400	—	—	Basic RNP1
001	CA	—	—	041 (035.7)	-5.1	—	—	+2000	—	—	Basic RNP1
002	DF	IGE	—	—	-5.1	—	R	3000	—	—	Basic RNP1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	MASAN	244 (239.3)	-5.1	1.0(-14000)	L	3000	FL140	-230(-14000)	Basic RNP1
Hold	IGE	203 (197.8)	-5.1	1.0(-14000)	L	3000	FL140	-230(-14000)	Basic RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
MASAN	243033.23N/1242649.67E	IGRF2	241734.58N/1241311.07E
KIDAK	242010.28N/1241836.67E		
LAKUL	241606.39N/1241524.14E		
IG451	241902.74N/1241057.95E		
IGE	242345.64N/1241416.63E		

CHANGE : New PROC.

ROIG / NEW ISHIGAKI

VOR RWY04

Turn initiation within D11.0 IGE

191°

3000

IGE

2600

028°

ANPAL (FAF)

1763

MAPt

VDP

028°

MDA

700 (598)

MISSED APPROACH

Climb to 2000FT via IGE R028, turn right, direct to IGE VOR/DME and hold at 3000FT.

Contact SAKISHIMA APP.

Timing not authorized for defining the MAPt.

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

CHANGE : Description of VAR.

ROIG / NEW ISHIGAKI

VOR Z RWY22

SAKISHIMA APP	ISHIGAKIJIMA VOR/DME 115.4 IGE CH-101X 卄一 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)

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.



		MDA		(1999)	HRG
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.

CHANGE : Description of VAR.

INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

VOR Y RWY22



ROIG / NEW ISHIGAKI

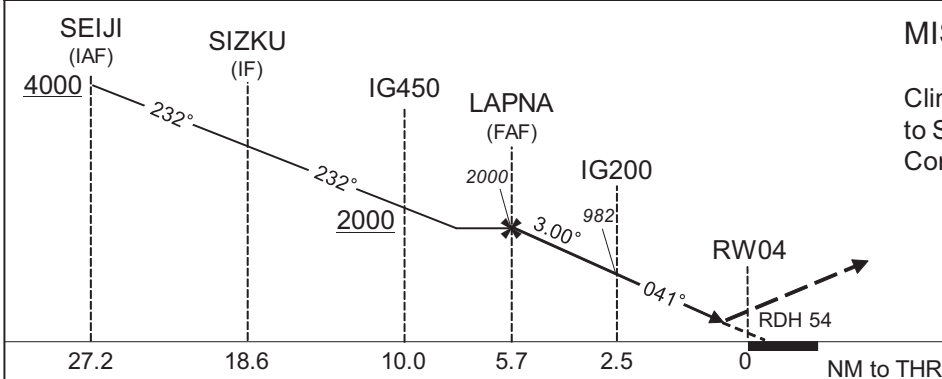
SAKISHIMA APP
120.3 - 121.2

RNP AR
RF required.

ISHIGAKI TOWER
118.0 - 126.2

RADAR AVBL
ATIS 128.675

For uncompensated Baro-VNAV systems, procedure not authorized below 5°C / above 45°C



Climb to 4000FT, to IG452,
to SEIJI and hold.
Contact SAKISHIMA APP.

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.

Authorization Required

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		

ROIG / NEW ISHIGAKI

RNP Z RWY22

SAKISHIMA APP

120.3 – 121.2

Baro-VNAV not authorized below 10°C

VAR 5°W

MASAN

243033.23N

(IAF/MAHF)

1242649.67E

DENSA

243626.47N

(IAF)

1241756.68E

YUNTA

243329.91N

(IF)

1242223.28E

ORION

242926.13N

(FAF)

1241910.28E

IG250

242517.00N

(MAPt)

1241553.33E

IG200

242118.09N

(MATF)

1241244.70E

RNP APCH

ISHIGAKI TOWER

118.0 – 126.2

RADAR AVBL

ATIS 128.675

25NM to YUNTA

2300

DENSA (IAF)

IF

MASAN

3000

25NM to DENSA

3000

25NM to MASAN

10NM

180°

090°

270°

1199

924

791

540

457

415

763

755

1726

DENSA (IAF)

YUNTA (IF)

MASAN (IAF/MAHF)

ORION (FAF)

IG250 (MAPt)

IG200 (MATF)

NOT TO SCALE

1MIN

020°

200°

DENSA

MHA 3000

MAX 230KIAS

NOT TO SCALE

1MIN

042°

222°

YUNTA

MHA 3000

MAX 230KIAS

NOT TO SCALE

MASAN

244°

064°

1MIN

MHA 3000

MAX 230KIAS

MAPt

1

2

3

4

5

FAF

NM to Next Fix

—

892

1210

1528

1847

2165

2200

ALT (3.0° APCH Path)

MISSED APPROACH

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

Contact SAKISHIMA APP.

VDP

0.1NM to MAPt

VDP (LNAV)

IG250 (MAPt)

RDH50

MDA

1600 (1498)

ORION (FAF)

YUNTA (IF)

IAS

MASAN 3000

DENSA 3000

NM to THR

0

1.3

6.4

11.4

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

580(470)

1500

580(478)

1500

660(558)

2400

C

580(470)

1600

580(478)

1600

660(558)

2400

D

580(470)

1800

580(478)

1800

660(558)

3200

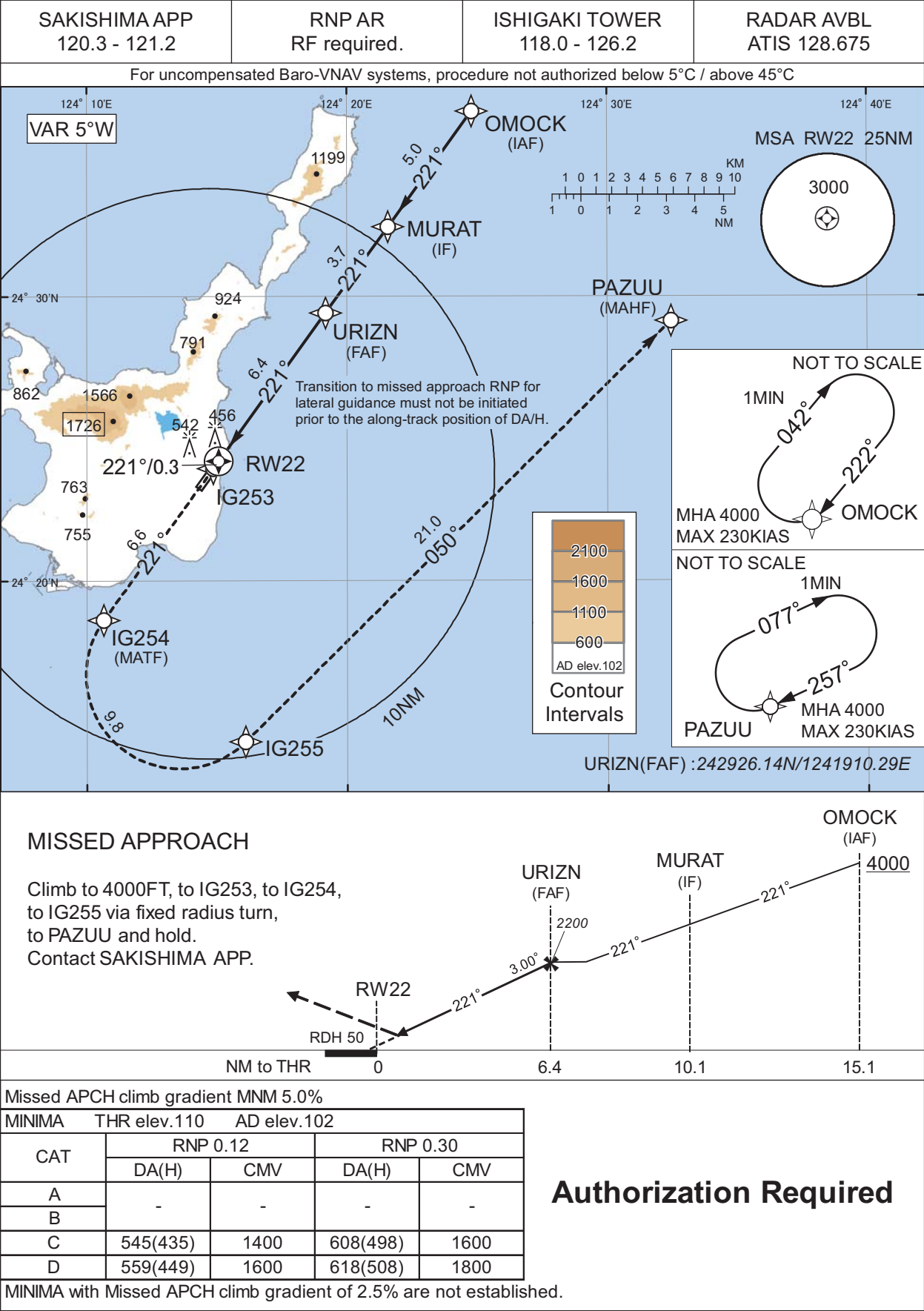
Circling to EAST side of RWY only.

CHANGE : Missed APCH for using VOR/DME abolished.

INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

RNP Y RWY22(AR)



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		

ROIG / NEW ISHIGAKI

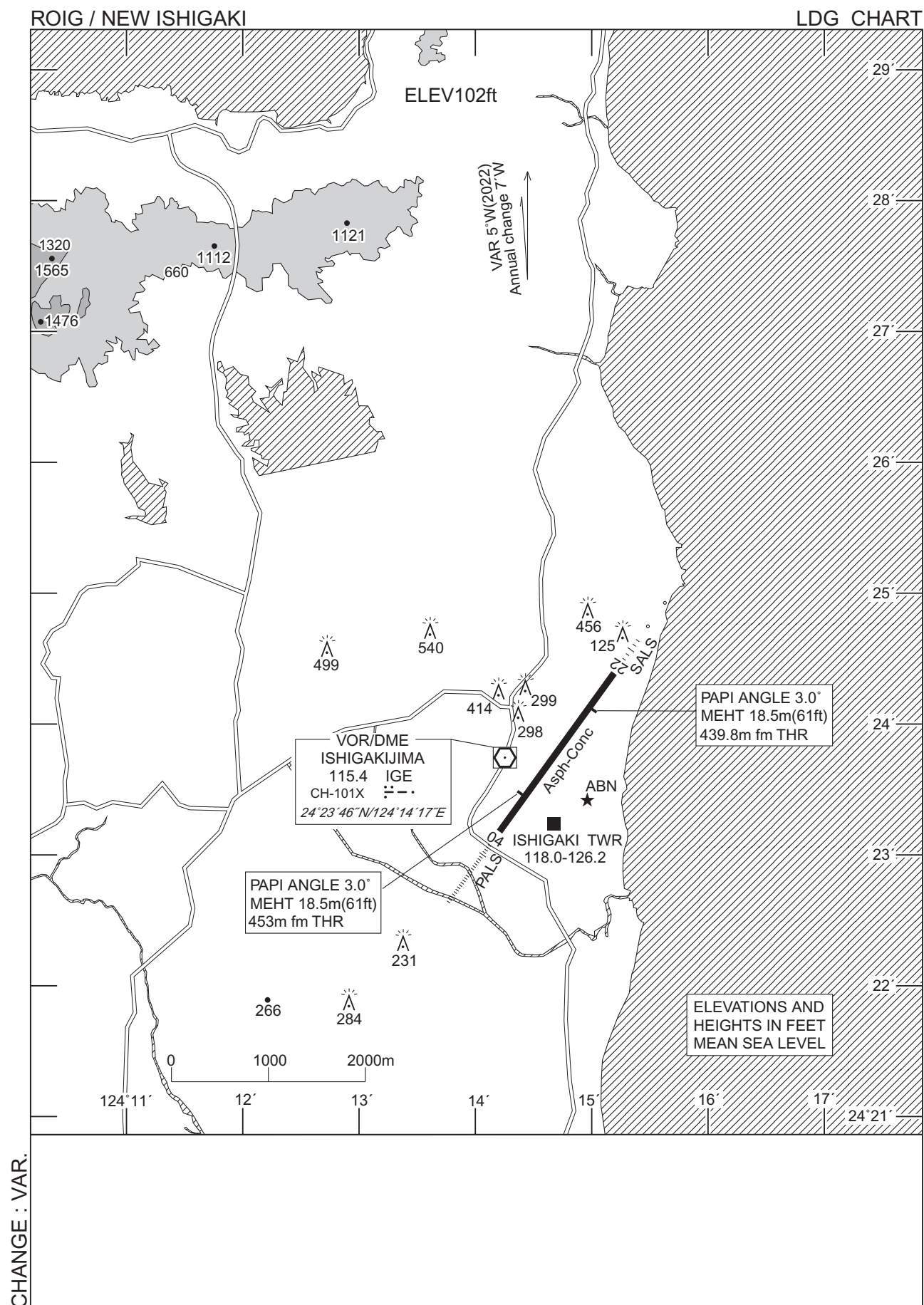
Visual REP



※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	川平湾グラスボート乗り場 Kabira Bay Boat pier
底原 Sokobaru	322°T / 2.1NM	ダム Dam



Minimum Vectoring Altitude CHART

