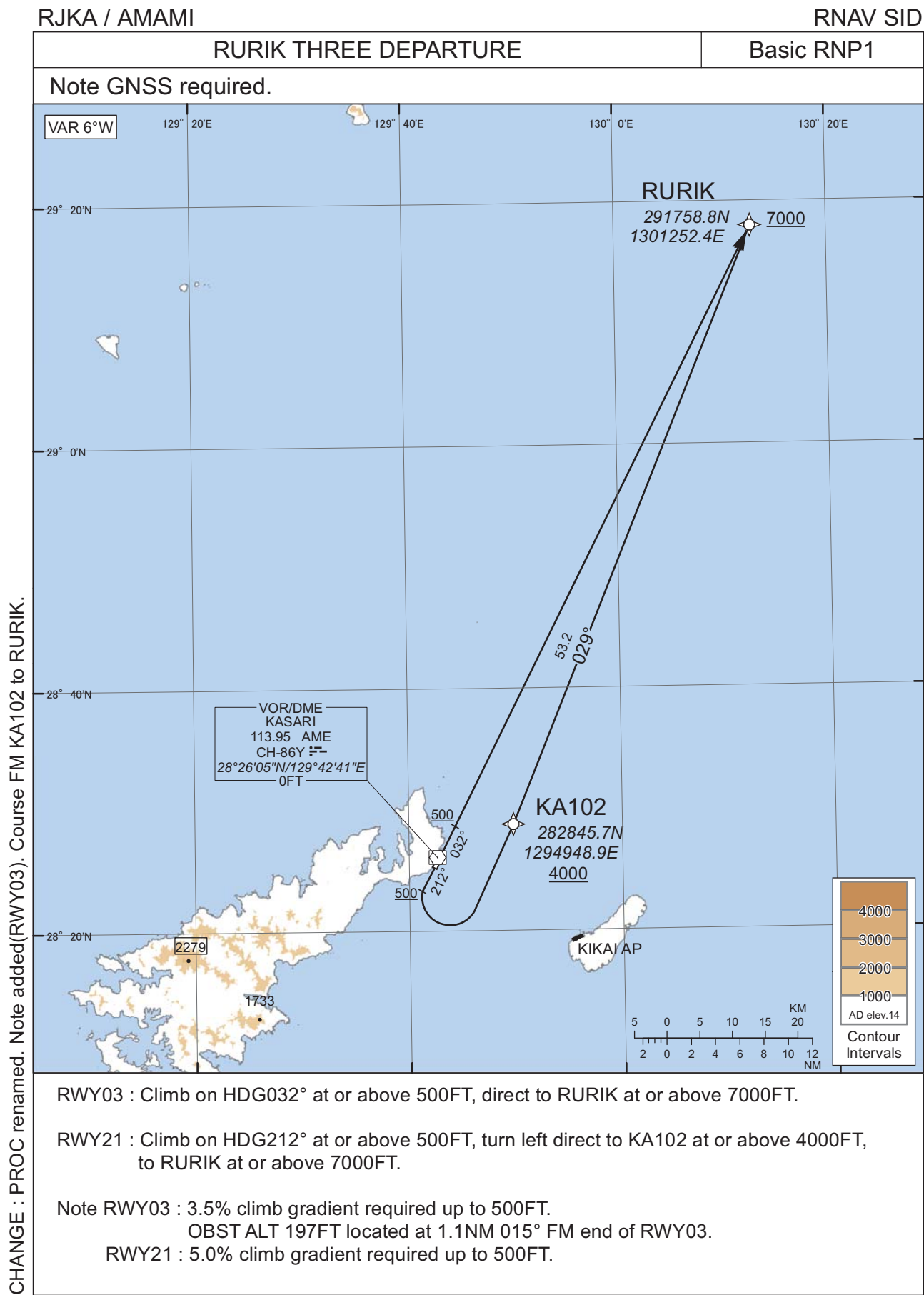


RJKA / AMAMI

AD CHART



STANDARD DEPARTURE CHART -INSTRUMENT



STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

RNAV SID

RURIK THREE DEPARTURE

RWY03

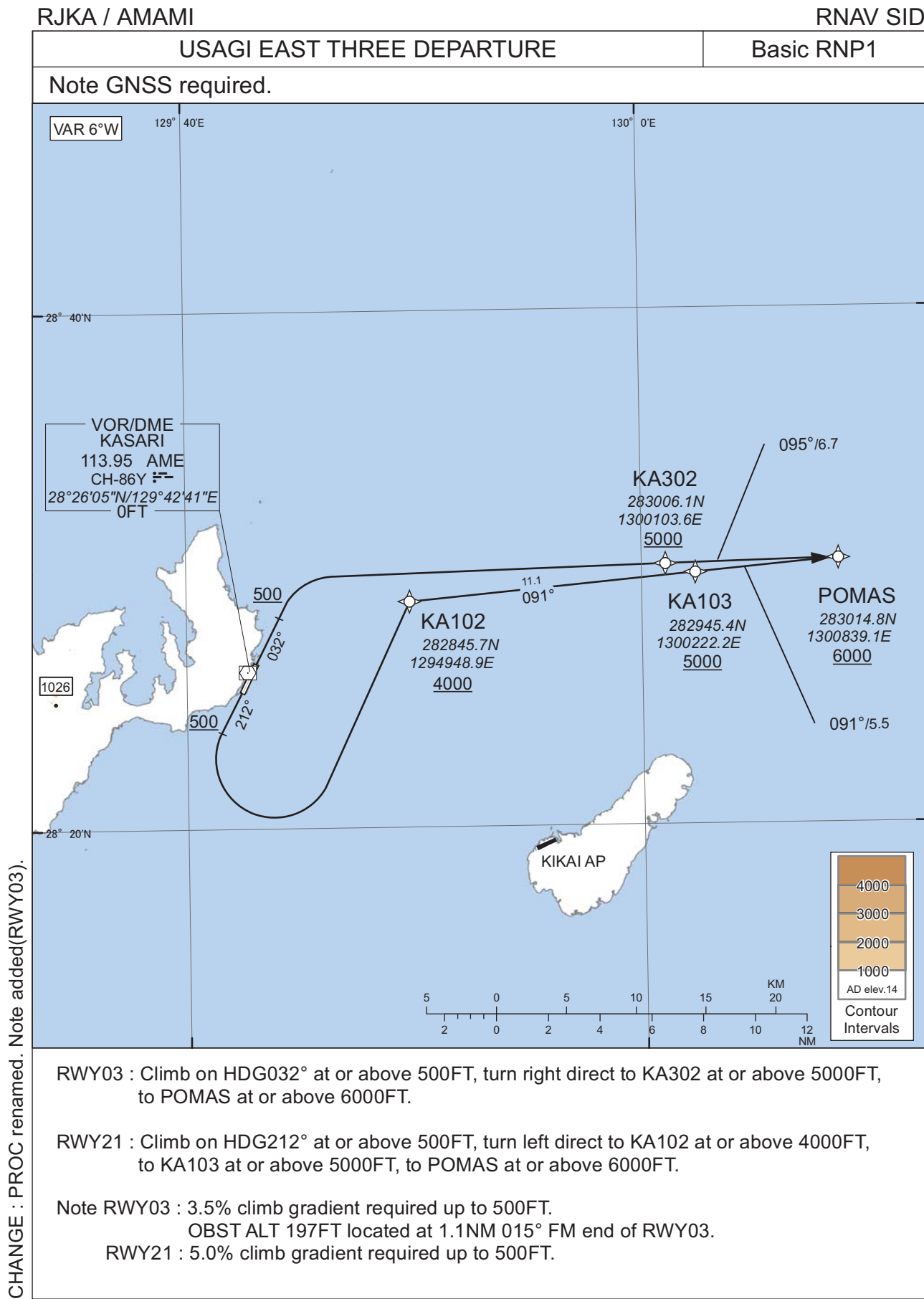
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	032 (025.8)	-6.4	-	-	+500	-	-	Basic RNP1
002	DF	RURIK	-	-	-6.4	-	-	+7000	-	-	Basic RNP1

RWY21

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	-	-	212 (205.8)	-6.4	-	-	+500	-	-	Basic RNP1
002	DF	KA102	-	-	-6.4	-	L	+4000	-	-	Basic RNP1
003	TF	RURIK	-	029 (022.2)	-6.4	53.2	-	+7000	-	-	Basic RNP1

CHANGE : PROC renamed. Course FM KA102 to RURIK. VAR.

STANDARD DEPARTURE CHART -INSTRUMENT



Civil Aviation Bureau,Japan (EFF:25 JAN 2024)

28/12/23

STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

RNAV SID

USAGI EAST THREE DEPARTURE

RWY03

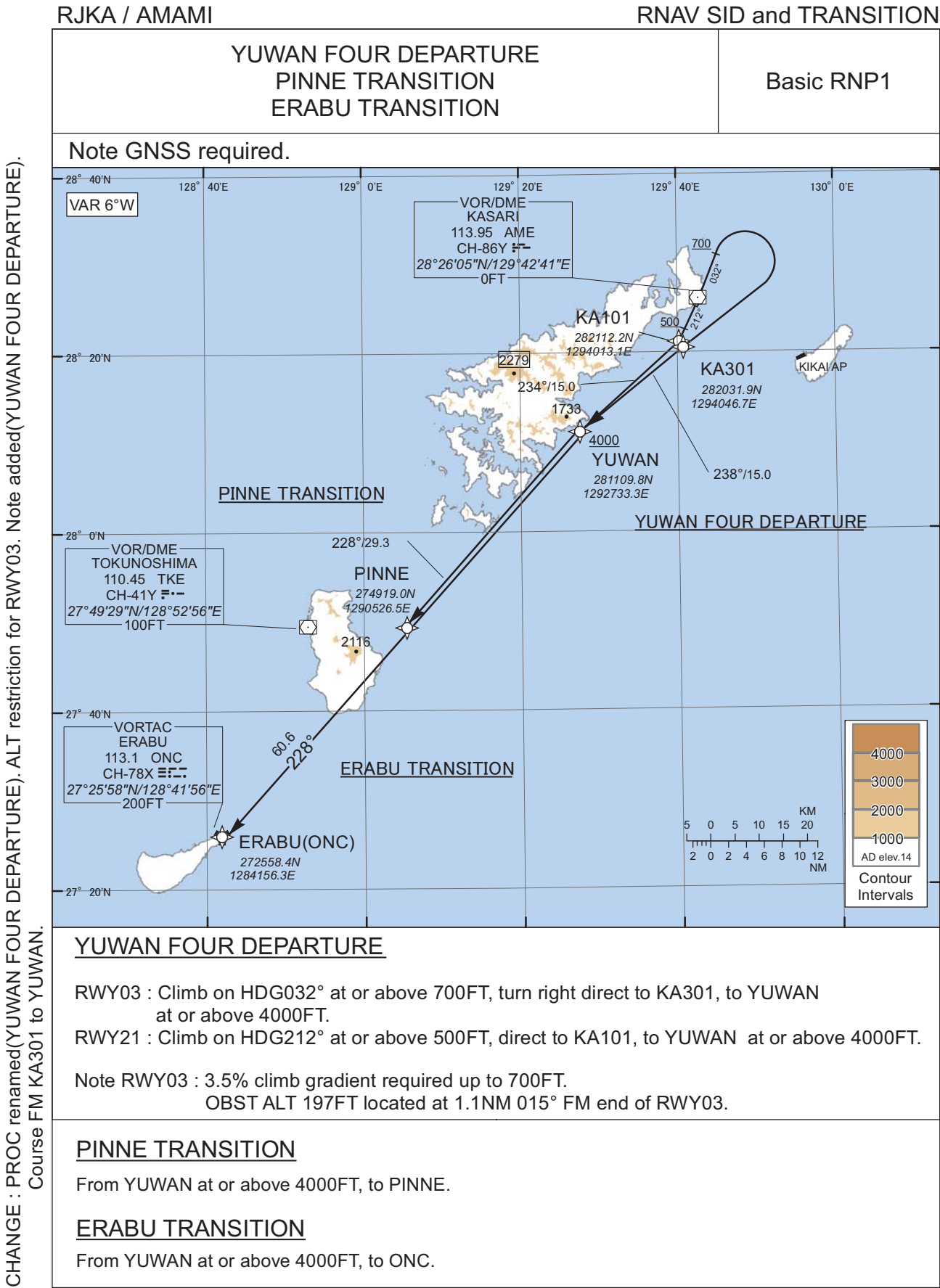
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	032 (025.8)	-6.4	-	-	+500	-	-	Basic RNP1
002	DF	KA302	-	-	-6.4	-	R	+5000	-	-	Basic RNP1
003	TF	POMAS	-	095 (088.7)	-6.4	6.7	-	+6000	-	-	Basic RNP1

RWY21

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	-	-	212 (205.8)	-6.4	-	-	+500	-	-	Basic RNP1
002	DF	KA102	-	-	-6.4	-	L	+4000	-	-	Basic RNP1
003	TF	KA103	-	091 (084.8)	-6.4	11.1	-	+5000	-	-	Basic RNP1
004	TF	POMAS	-	091 (084.9)	-6.4	5.5	-	+6000	-	-	Basic RNP1

CHANGE : PROC renamed. VAR.

STANDARD DEPARTURE CHART -INSTRUMENT



STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

RNAV SID and TRANSITION

YUWAN FOUR DEPARTURE

RWY03

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	-	-	032 (025.8)	-6.4	-	-	+700	-	-	Basic RNP1
002	DF	KA301	-	-	-6.4	-	R	-	-	-	Basic RNP1
003	TF	YUWAN	-	238 (231.2)	-6.4	15.0	-	+4000	-	-	Basic RNP1

RWY21

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	-	-	212 (205.8)	-6.4	-	-	+500	-	-	Basic RNP1
002	DF	KA101	-	-	-6.4	-	-	-	-	-	Basic RNP1
003	TF	YUWAN	-	234 (228.1)	-6.4	15.0	-	+4000	-	-	Basic RNP1

PINNE TRANSITION

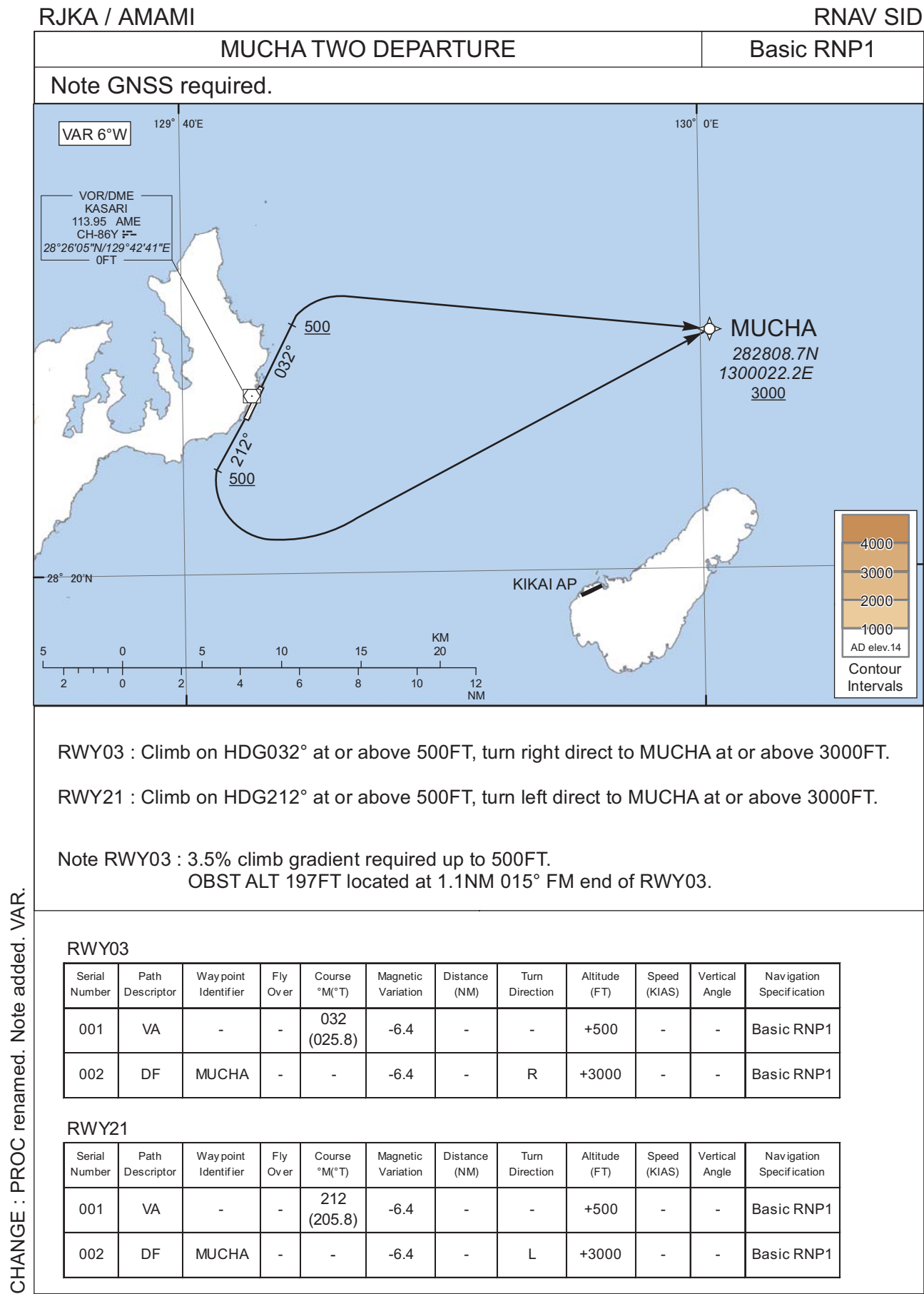
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	YUWAN	-	-	-6.4	-	-	+4000	-	-	Basic RNP1
002	TF	PINNE	-	228 (221.9)	-6.4	29.3	-	-	-	-	Basic RNP1

ERABU 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	YUWAN	-	-	-6.4	-	-	+4000	-	-	Basic RNP1
002	TF	ONC	-	228 (221.9)	-6.4	60.6	-	-	-	-	Basic RNP1

CHANGE : PROC renamed (YUWAN FOUR DEPARTURE). Course FM KA301 to YUWAN. ALT restriction for RWY03. VAR.

STANDARD DEPARTURE CHART -INSTRUMENT



CHANGE : PROC renamed. Note added. VAR.

RJKA / AMAMI

IKEJI ONE DEPARTURE

Basic RNP1

VAR 6°W

129° 40'E

5 0 5 10 15 20 KM

2 0 2 4 6 8 10 12 NM

VOR/DME
KASARI
113.95 AME
CH-86Y
28°26'05"N/129°42'41"E
0FT

500

032°

212°

500

KA104
282316.7N
1294121.2E

KA303
282039.6N
1294329.9E

5.0
179°

IKEJI
281541.3N
1294414.7E
3000

KIKAI AP

4000
3000
2000
1000
AD elev. 14
Contour
Intervals

Note RWY03 : 5.0% climb gradient required up to 500FT.
RWY21 : 5.0% climb gradient required up to 500FT.

28/12/23

STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

RNAV SID

IKEJI ONE DEPARTURE

RWY03

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	-	-	032 (025.8)	-6.4	-	-	+500	-	-	Basic RNP1
002	DF	KA303	-	-	-6.4	-	R	-	-	-	Basic RNP1
003	TF	IKEJI	-	179 (172.5)	-6.4	5.0	-	+3000	-	-	Basic RNP1

RWY21

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	-	-	212 (205.8)	-6.4	-	-	+500	-	-	Basic RNP1
002	DF	KA104	Y	-	-6.4	-	-	-	-	-	Basic RNP1
003	DF	IKEJI	-	-	-6.4	-	L	+3000	-	-	Basic RNP1

CHANGE : VAR.

STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

SID

PINNE SIX DEPARTURE

RWY 03 : Climb RWY HDG to 700FT, turn right HDG273° to intercept and proceed...

RWY 21 : Climb RWY HDG to AME 3.0DME, turn right,...

... via AME R228 to PINNE.

Cross PINNE at or above 6000FT.

NOTE RWY03 : 3.5% climb gradient required up to 700FT.

OBST ALT 197FT located at 1.1NM 015° FM end of RWY03.



CHANGE : PROC renamed(PINNE SIX DEPARTURE). Note added. ERABU FOUR DEPARTURE abolished.

STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

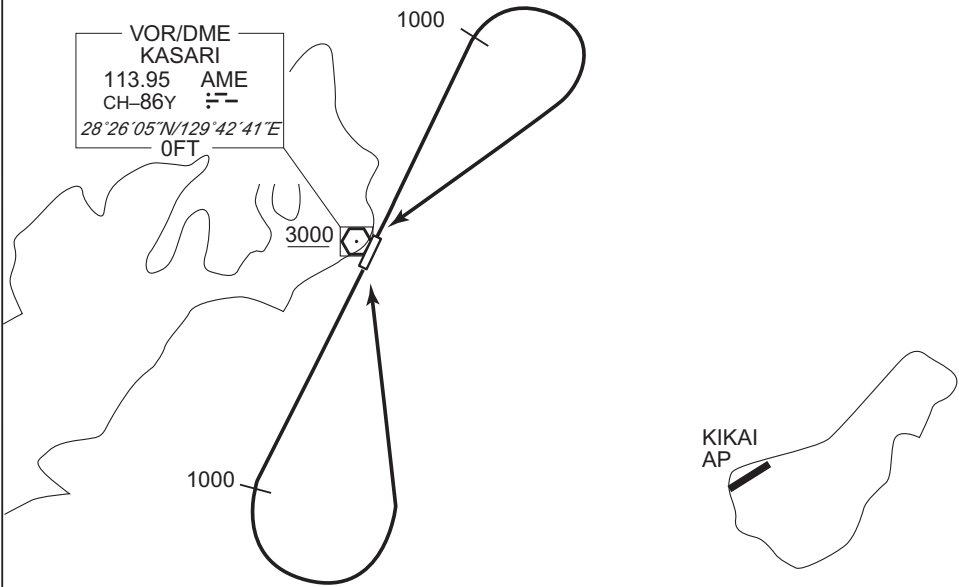
SID

CHANGE : PROC renamed(KASARI REVERSAL THREE DEPARTURE). Note added. POMAS FOUR DEPARTURE abolished.

KASARI REVERSAL THREE DEPARTURE

- RWY03 : Climb RWY HDG to 1000FT,turn right,...
- RWY21 : Climb RWY HDG to 1000FT,turn left,...
- ...direct to AME VOR/DME. Cross AME VOR/DME at or above 3000FT.

NOTE RWY03 : 3.5% climb gradient required up to 1000FT.
OBST ALT 197FT located at 1.1NM 015° FM end of RWY03.

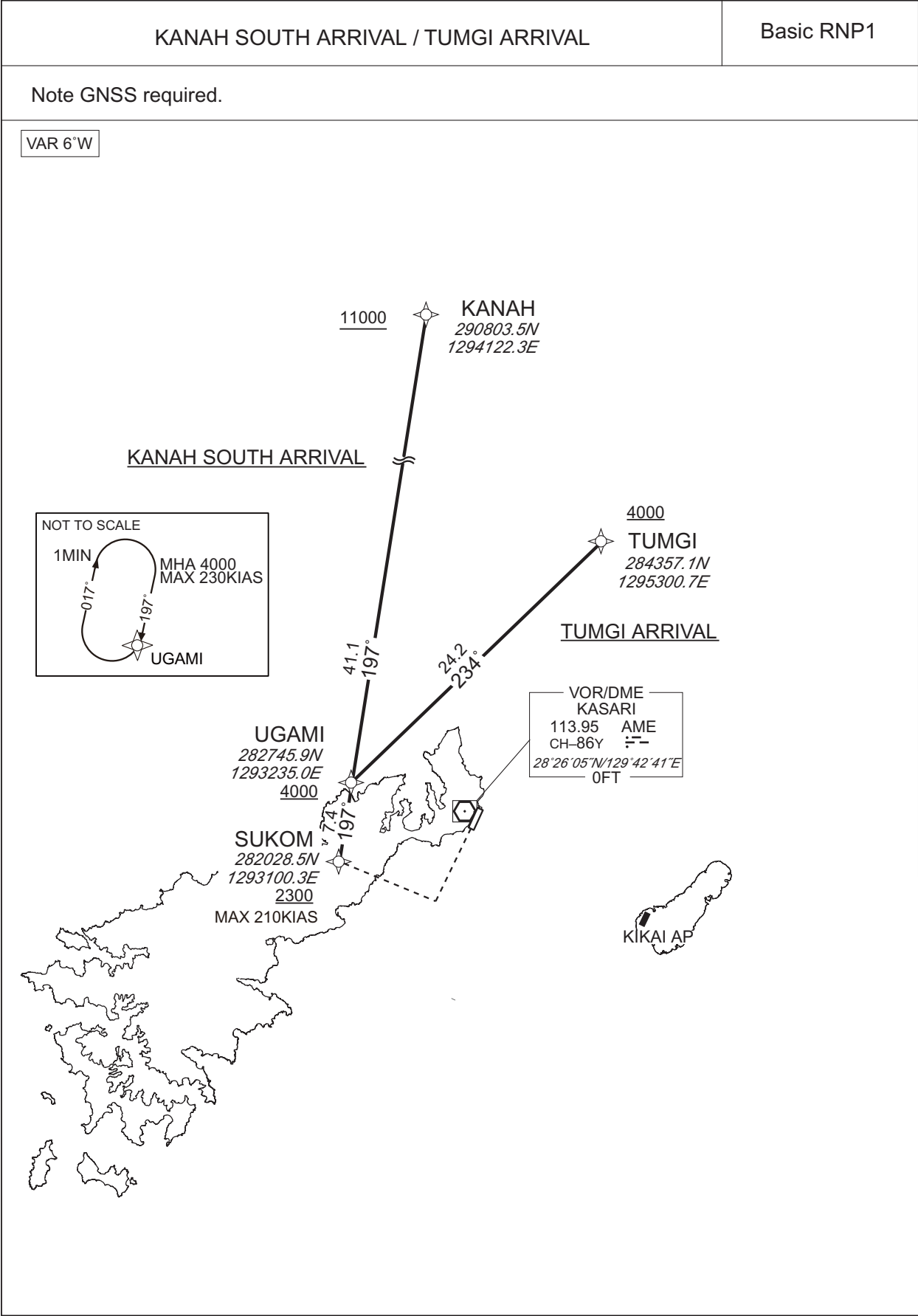


INTENTIONALLY LEFT BLANK

STANDARD ARRIVAL CHART-INSTRUMENT

RJKA / AMAMI

RNAV STAR RWY03



STANDARD ARRIVAL CHART-INSTRUMENT

RJKA / AMAMI

RNAV STAR RWY03

KANAH SOUTH ARRIVAL

From KANAH at or above 11000FT, to UGAMI at or above 4000FT, to SUKOM at or above 2300FT.

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	KANAH	—	—	-6.3	—	—	+11000	—	—	Basic RNP1
002	TF	UGAMI	—	197 (190.9)	-6.3	41.1	—	+4000	—	—	Basic RNP1
003	TF	SUKOM	—	197 (190.8)	-6.3	7.4	—	+2300	-210	—	Basic RNP1

TUMGI ARRIVAL

From TUMGI at or above 4000FT, to UGAMI at or above 4000FT, to SUKOM at or above 2300FT.

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	TUMGI	—	—	-6.3	—	—	+4000	—	—	Basic RNP1
002	TF	UGAMI	—	234 (228.0)	-6.3	24.2	—	+4000	—	—	Basic RNP1
003	TF	SUKOM	—	197 (190.8)	-6.3	7.4	—	+2300	-210	—	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	UGAMI	197 (190.8)	-6.3	1.0(-14000)	R	4000	FL140	-230(-14000)	Basic RNP1

CHANGE : VAR. RNAV HLDG established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJKA / AMAMI

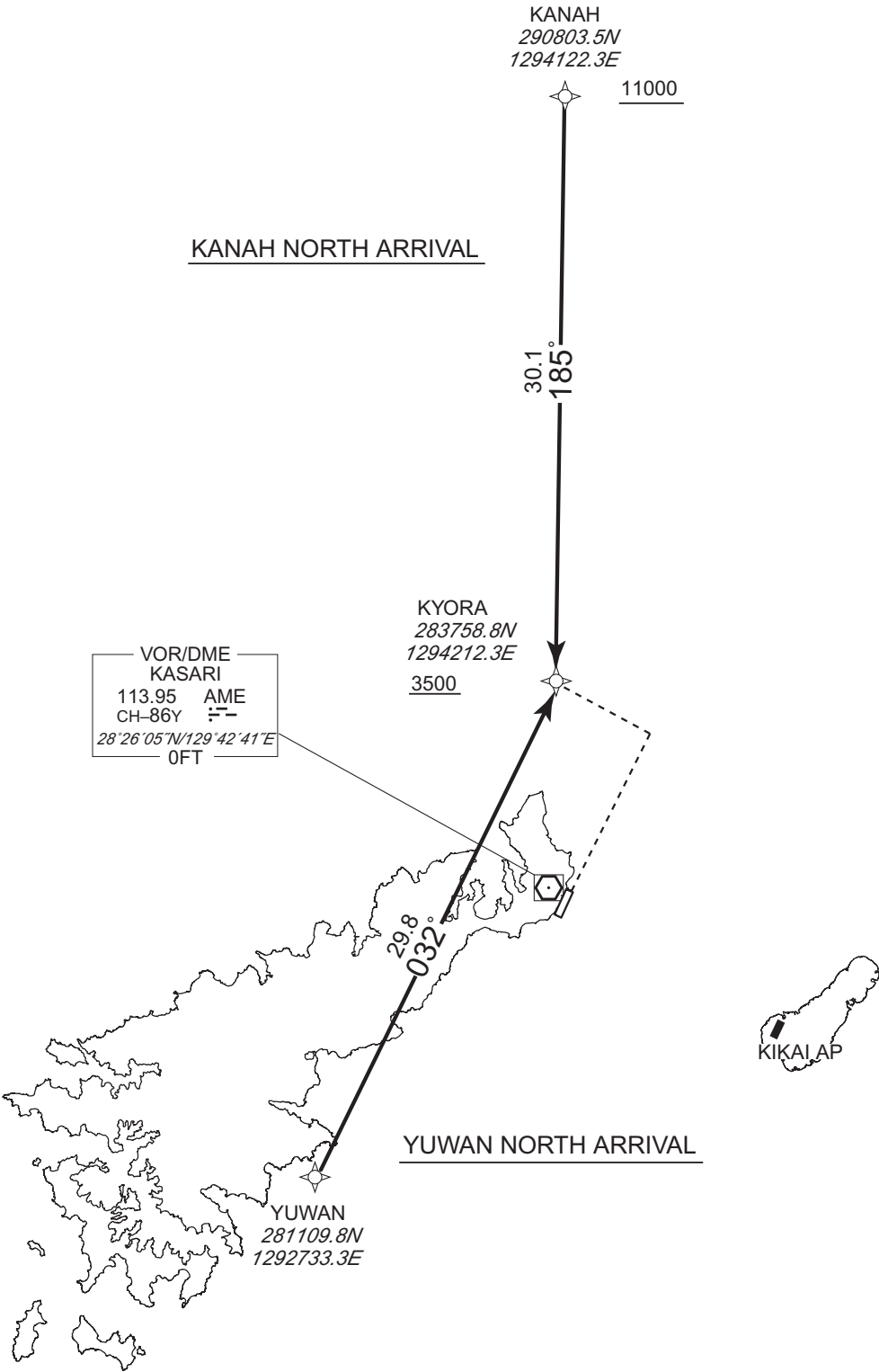
RNAV STAR RWY21

KANAH NORTH ARRIVAL YUWAN NORTH ARRIVAL	Basic RNP1
--	------------

Note GNSS required.

VAR 6°W

CHANGE : Description of VAR.



STANDARD ARRIVAL CHART-INSTRUMENT

RJKA / AMAMI

RNAV STAR RWY21

KANAH NORTH ARRIVAL

From KANAH at or above 11000FT, to KYORA at or above 3500FT.

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	KANAH	—	—	-6.2	—	—	+11000	—	—	Basic RNP1
002	TF	KYORA	—	185 (178.6)	-6.2	30.1	—	+3500	—	—	Basic RNP1

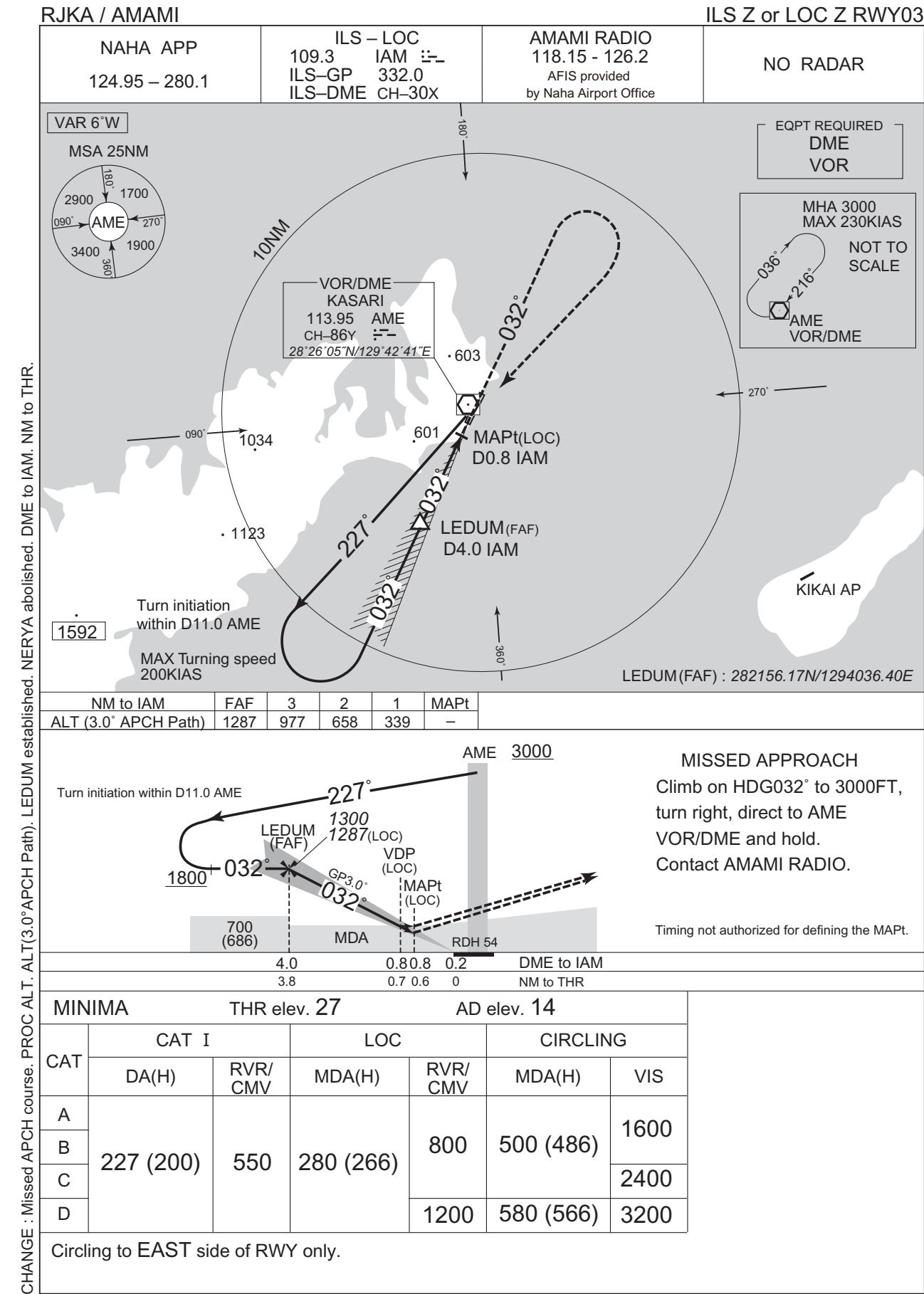
YUWAN NORTH ARRIVAL

From YUWAN, to KYORA at or above 3500FT.

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	YUWAN	—	—	-6.2	—	—	—	—	—	Basic RNP1
002	TF	KYORA	—	032 (025.6)	-6.2	29.8	—	+3500	—	—	Basic RNP1

CHANGE : VAR. PROC course.

INSTRUMENT APPROACH CHART



RJKA / AMAMI

ILS Y or LOC Y RWY03

NAHA APP

124.95 – 280.1

ILS - LOC

109.3 IAM

ILS-GP 332.0

ILS-DME CH-30X

AMAMI RADIO

118.15 - 126.2

AFIS provided
by Naha Airport Office

NO RADAR

VAR 6°W

MSA 25NM

Using NAVAID

NOT TO SCALE

RNAV HLDG

NOT TO SCALE

10NM

090°

1034

SUKOM(IAF)

282028.5N
1293100.3E

2300

MAX 210KIAS

KA359

281910.3N
1293404.2E

2300

KA360

281258.6N
1293036.4E

2200

YUWAN

281109.8N
1292733.3E

4000

MAPt(LOC)

D0.8 IAM

603

601

LEDUM(FAF)

D4.0 IAM

SAMAX(IF)

D9.0 IAM

281726.3N
1293808.2E

MAX 210KIAS

IKYUN(IAF)

281514.3N
1294315.0E

3000

MAX 210KIAS

LEDUM(FAF) : 282156.17N/1294036.40E

NOTE: For Initial approach segment;
(1) Basic RNP1.
(2) GNSS required.

RNAV HLDG

NOT TO SCALE

NM to IAM	FAF	3	2	1	MAPt
ALT (3.0° APCH Path)	1287	977	658	339	-

SAMAX (IF)

1300

LEDUM (FAF)

1300

1287(LOC)

GP 3.0°

VDP (LOC)

MAPt (LOC)

AME

032°

032°

032°

032°

032°

700 (686)

MDA

RDH 54

9.0

8.8

4.0

3.8

0.8

0.7

0.6

0.2

0

DME to IAM

NM to THR

MISSED APPROACH

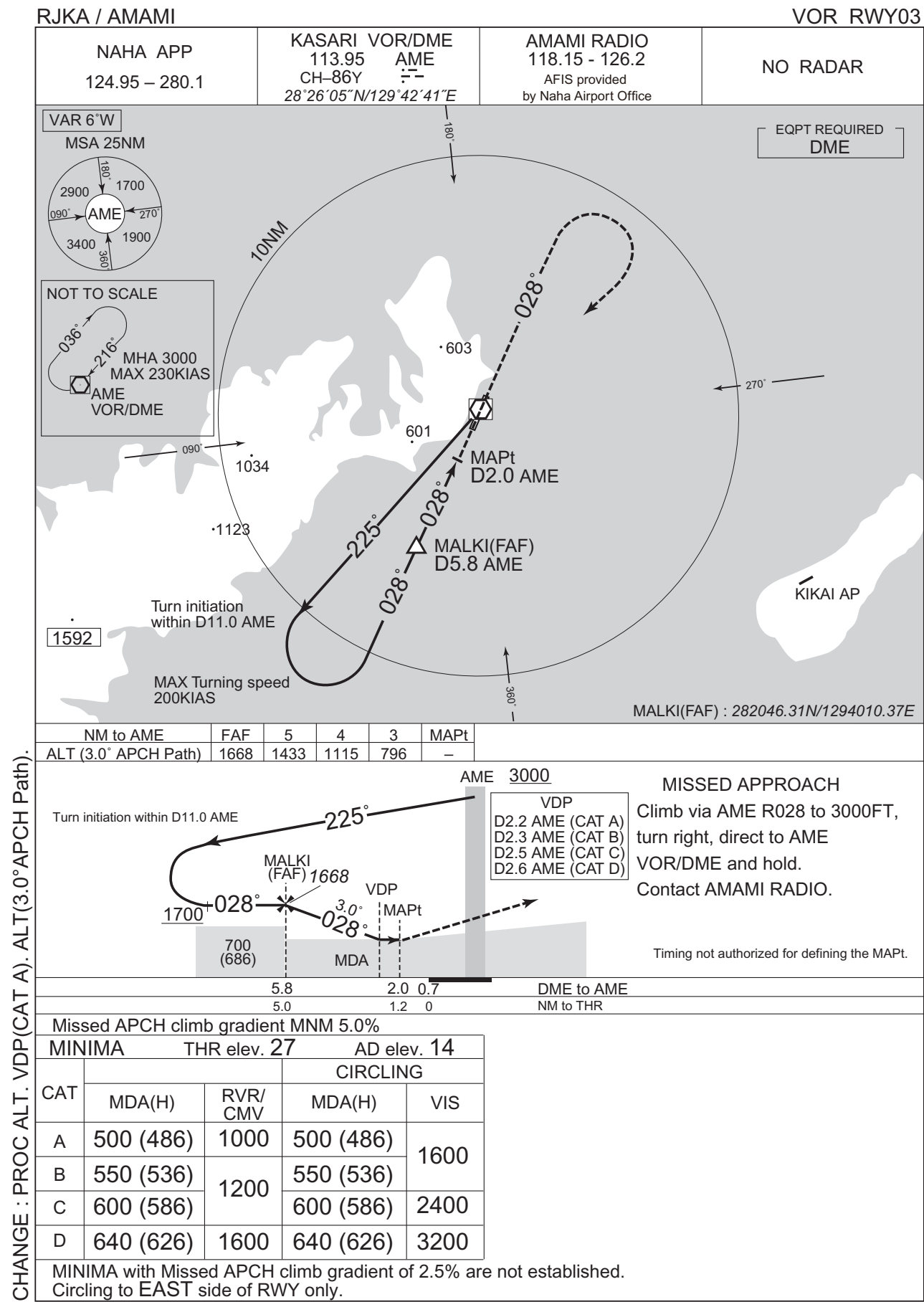
Climb on HDG032° to 3000FT,
turn right, direct to AME
VOR/DME and hold.
Contact AMAMI RADIO.

Timing not authorized for defining the MAPt.

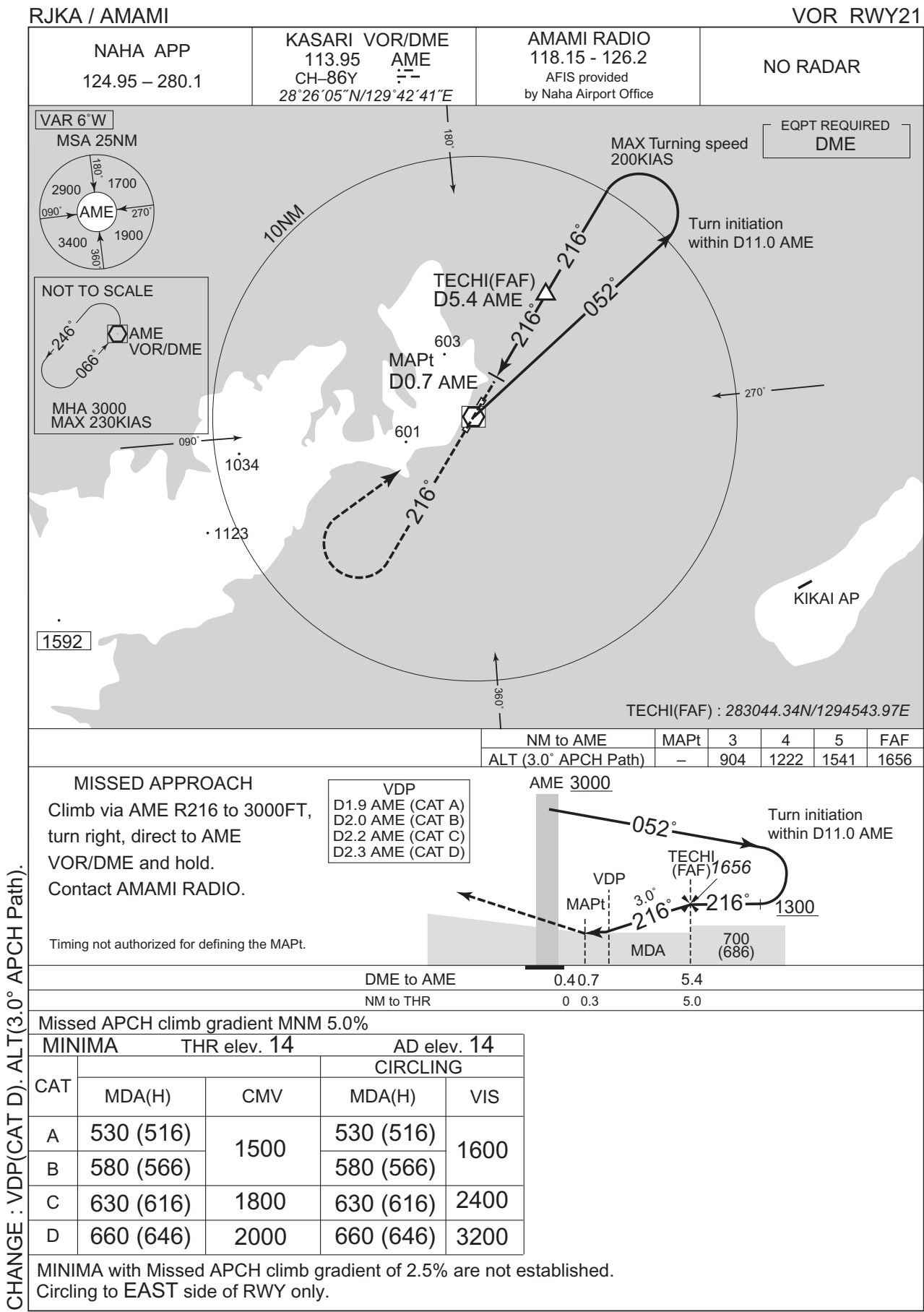
MINIMA		THR elev. 27		AD elev. 14		
CAT	CAT I	LOC		CIRCLING		
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	227 (200)	550	280 (266)	800	500 (486)	1600
B						2400
C						2400
D						3200

Circling to EAST side of RWY only.

INSTRUMENT APPROACH CHART



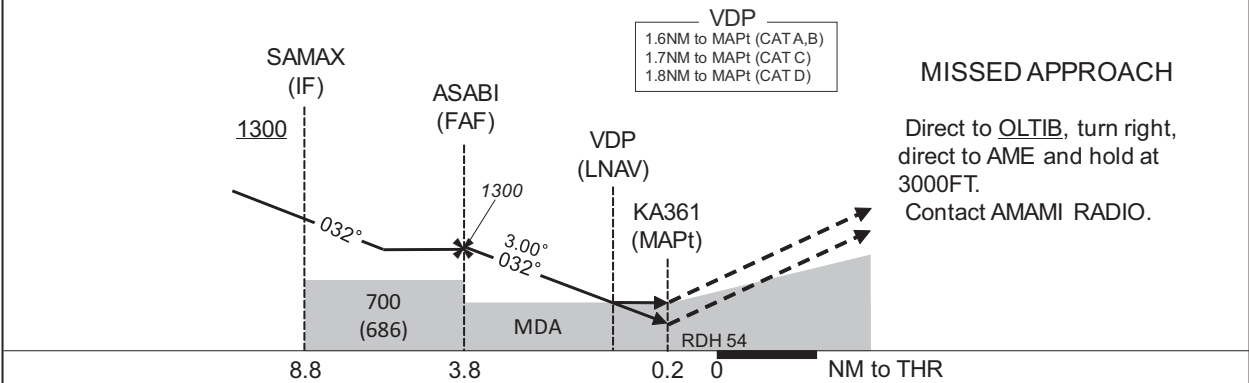
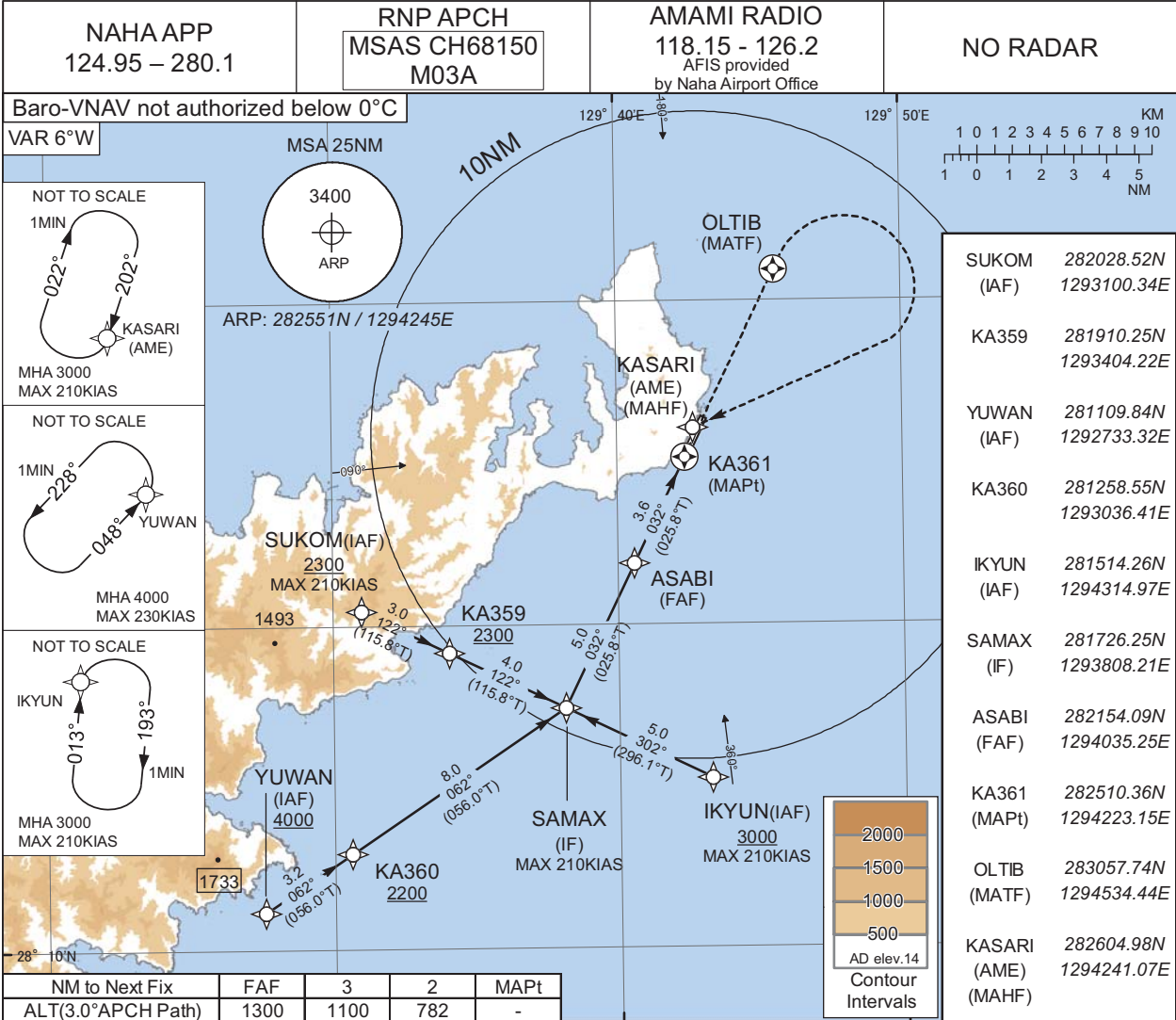
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJKA / AMAMI

RNP Z RWY03



Missed APCH climb gradient MNM 5.0%

CAT	THR elev. 27		AD elev. 14		LNAV		CIRCLING	
	DA(H)	RVR/CMV	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	277(250)	800	600(573)	1000	600(586)	1000	600(586)	1600
B	282(255)		640(613)	1200	640(626)	1200	640(626)	2400
C	292(265)	1200	670(643)	1600	670(656)	1800	670(656)	3200

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

Circling to EAST side of RWY only.

CHANGE : New PROC.

INSTRUMENT APPROACH CHART

RJKA / AMAMI

RNP Z RWY03

FAS DATA BLOCK

Operation type	0	LTP/FTP ellipsoidal height	+00373
SBAS service provider identifier	2	FPAP latitude	282619.5815N
Airport identifier	RJKA	FPAP longitude	1294301.2745E
Runway	03	Threshold crossing height	00016.5
Approach performance designator	0	TCH units selector	1
Route indicator	Z	Glide path angle	03.00
Reference path data selector	0	Course width at threshold	105.00
Reference path ID	M03A	∟ length offset	0000
LTP/FTP latitude	282521.1620N	HAL	40.0
LTP/FTP longitude	1294229.1275E	VAL	50.0
CRC remainder	2C1731A7		

Required additional data

LTP/FTP orthometric height	8.5
----------------------------	-----

CHANGE : New PROC.

RJKA / AMAMI

RNP Y RWY03(AR)



INSTRUMENT APPROACH CHART

RJKA / AMAMI

RNP Y RWY03(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	TUMGI	-	-	-6.4	-	-	+3500	-	-	-
002	TF	UPTM	-	203 (196.4)	-6.4	13.1	-	-	-	-	0.3
003	TF	KA357	-	203 (196.4)	-6.4	9.2	-	+2000	-185	-	0.3
004	RF Center: KARF2 r=1.95NM	VESOR	-	-	-6.4	1.9	R	2000	-	-	0.3
005	RF Center: KARF2 r=1.95NM	KA358	-	-	-6.4	4.5	R	554	-	-3.00	0.13 0.30
006	TF	RW03	Y	032 (025.8)	-6.4	1.5	-	81	-	-3.00/54	0.13 0.30
007	TF	OLTIB	-	032 (025.8)	-6.4	6.2	-	-	-	-	1.0
008	TF	TUMGI	-	033 (026.7)	-6.4	14.5	-	3500	-	-	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	TUMGI	213 (207.0)	-6.3	1.0 (-14000)	R	3500	FL140	-230 (-14000)	1.0

Waypoint Coordinates

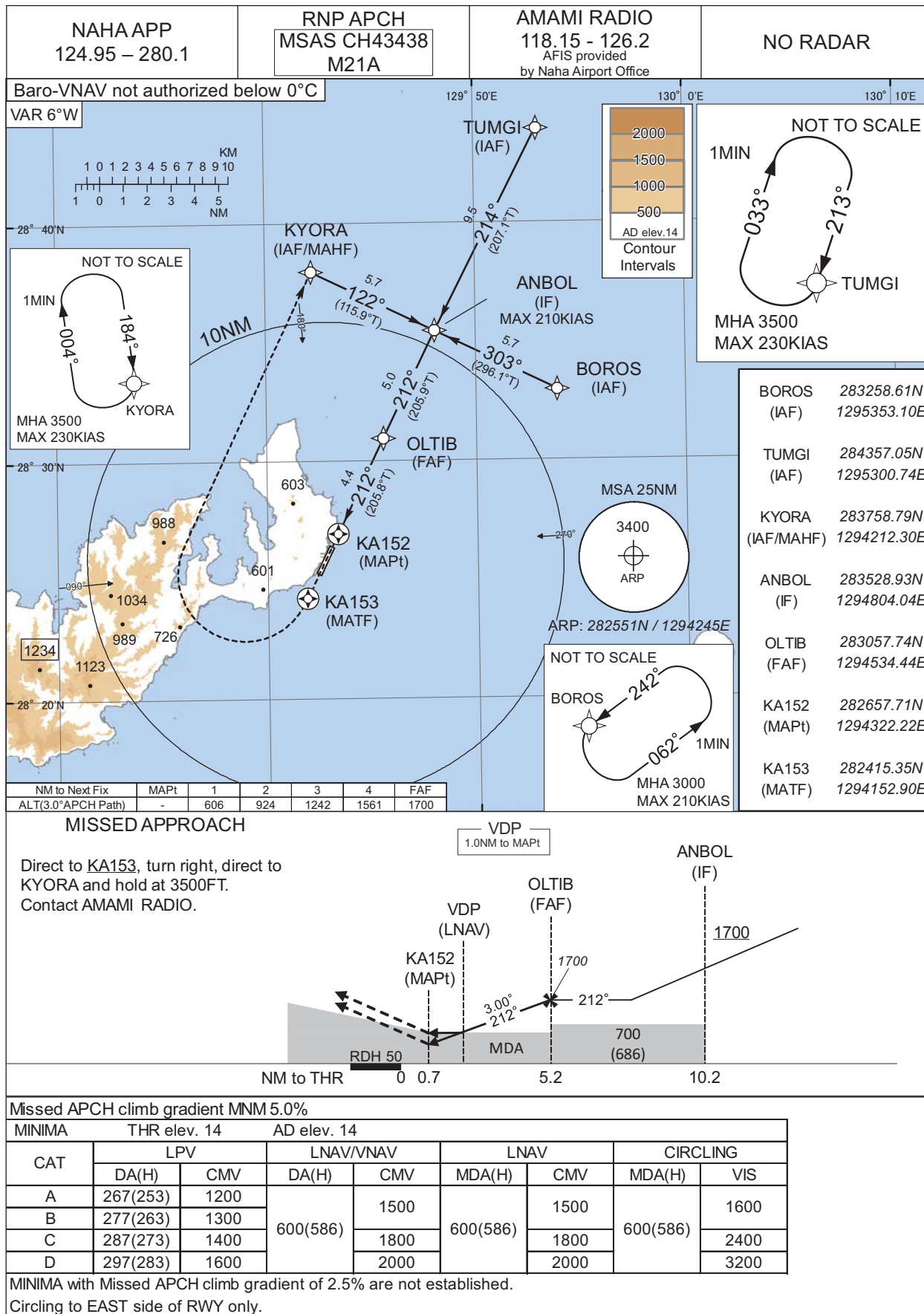
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
TUMGI	284357.05N / 1295300.74E	KARF2	282309.49N / 1294344.25E
UPTM	283124.97N / 1294848.31E		
KA357	282236.27N / 1294551.51E		
VESOR	282117.56N / 1294424.10E		
KA358	282400.82N / 1294144.91E		
RW03	282521.18N / 1294229.11E		
OLTIB	283057.74N / 1294534.44E		

CHANGE : PROC renamed. PROC course. UPTM, KA358, OLTIB established. YANGO, KA353, JOUGO, KA351, HABUH abolished.
RNP Value FM UPTM to VESOR. RF Arc Center Identifier (KARF2 added, KARF1 deleted). Waypoint Coordinates (RW03). VAR.

INSTRUMENT APPROACH CHART

RJKA / AMAMI

RNP Z RWY21



INSTRUMENT APPROACH CHART

RJKA / AMAMI

RNP Z RWY21

FAS DATA BLOCK

Operation type	0	LTP/FTP ellipsoidal height	+00333
SBAS service provider identifier	2	FPAP latitude	282521.1620N
Airport identifier	RJKA	FPAP longitude	1294229.1275E
Runway	21	Threshold crossing height	00015.0
Approach performance designator	0	TCH units selector	1
Route indicator	Z	Glide path angle	03.00
Reference path data selector	0	Course width at threshold	105.00
Reference path ID	M21A	∟ length offset	0000
LTP/FTP latitude	282619.5815N	HAL	40.0
LTP/FTP longitude	1294301.2745E	VAL	50.0
CRC remainder	A4D8FDB0		

Required additional data

LTP/FTP orthometric height	4.5
----------------------------	-----

CHANGE : FAS DATA BLOCK and Required additional data established.

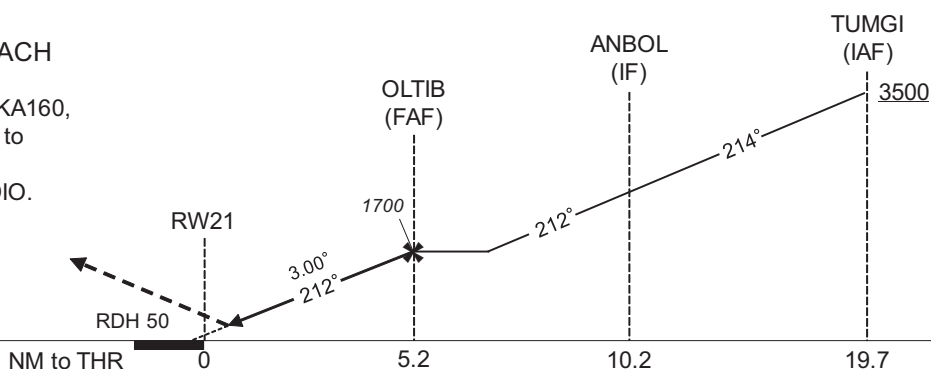
RJKA / AMAMI

RNP Y RWY21(AR)

For uncompensated Baro-VNAV systems, procedure not authorized below 0°C / above 45°C



Climb to 3500FT, to KA160,
to KA161, to KA162, to
TUMGI and hold.
Contact AMAMI RADIO.



Missed APCH climb gradient MNM 5.0%

MINIMA		THR elev. 14		AD elev. 14	
CAT	RNP 0.14		RNP 0.30		
	DA(H)	CMV	DA(H)	CMV	
A	-	-	-	-	
B					
C	287(273)	1400	365(351)	1600	
D	297(283)	1600	387(373)	1800	

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

Authorization Required

INSTRUMENT APPROACH CHART

RJKA / AMAMI

RNP Y RWY21(AR)

CHANGE : PROC course. ANBOL, OLTIB, KA160 established. IMORE, HABUH, KA101 abolished. Waypoint Coordinates (RW21). VAR.

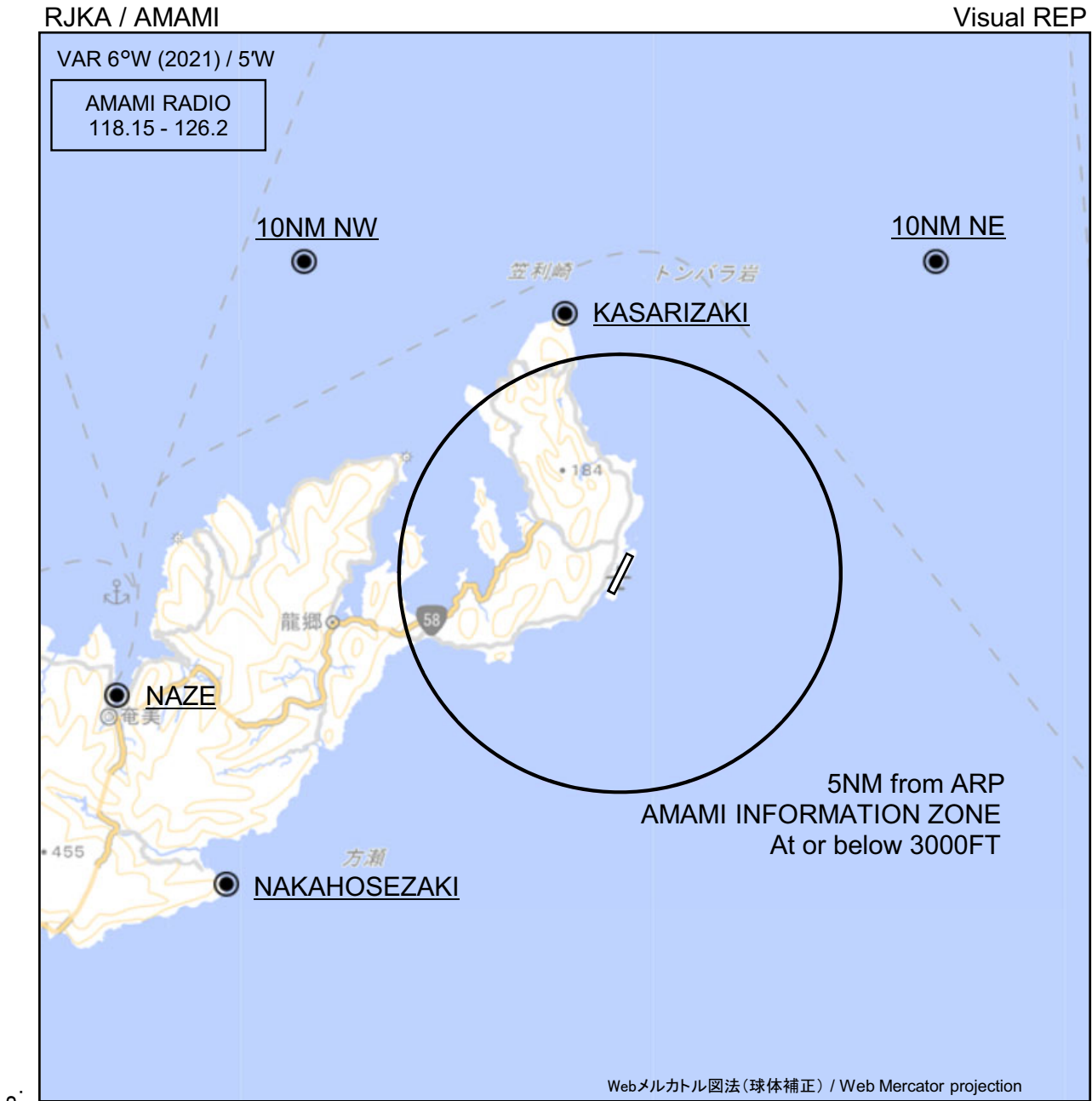
Coding Table

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	TUMGI	-	-	-6.4	-	-	+3500	-	-	-
002	TF	ANBOL	-	214 (207.1)	-6.4	9.5	-	-	-	-	1.0
003	TF	OLTIB	-	212 (205.9)	-6.4	5.0	-	1700	-	-	1.0
004	TF	RW21	Y	212 (205.8)	-6.4	5.2	-	64	-	-3.00/50	0.14 0.30
005	TF	KA160	-	212 (205.8)	-6.4	5.7	-	-	-	-	1.0
006	TF	KA161	-	302 (296.0)	-6.4	11.0	-	-	-	-	1.0
007	TF	KA162	-	017 (010.7)	-6.4	10.0	-	-	-	-	1.0
008	TF	TUMGI	-	074 (067.1)	-6.4	20.9	-	3500	-	-	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	TUMGI	213 (207.0)	-6.3	1.0 (-14000)	R	3500	FL140	-230 (-14000)	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates
TUMGI	284357.05N / 1295300.74E
ANBOL	283528.93N / 1294804.04E
OLTIB	283057.74N / 1294534.44E
RW21	282619.61N / 1294301.26E
KA160	282111.47N / 1294011.84E
KA161	282600.04N / 1292858.96E
KA162	283551.31N / 1293105.90E



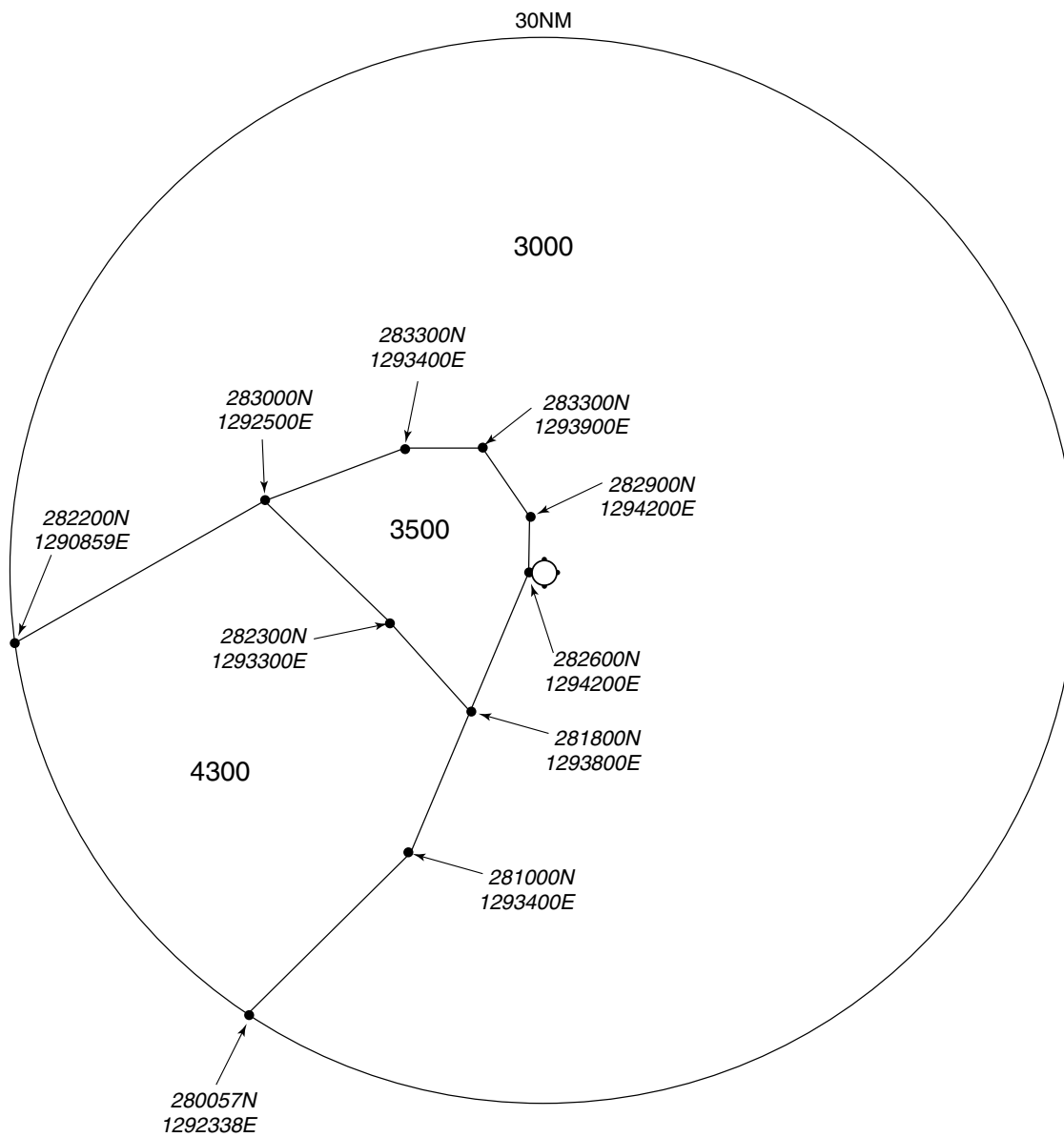
※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

CHANGE : Map updated. BRG/DIST from ARP.

Call sign	BRG / DIST from ARP	Remarks
10NM NE	045°T / 10.0NM	海上 Over the sea
10NM NW	315°T / 10.0NM	海上 Over the sea
笠利崎 Kasarizaki	348°T / 6.0NM	灯台 Lighthouse
名瀬 Naze	256°T / 11.7NM	港 Harbor
仲干瀬崎 Nakahosezaki	231°T / 11.4NM	岬 Cape

RJKA / AMAMI

Minimum Vectoring Altitude CHART



CENTER : 282551N/1294245E (ARP)