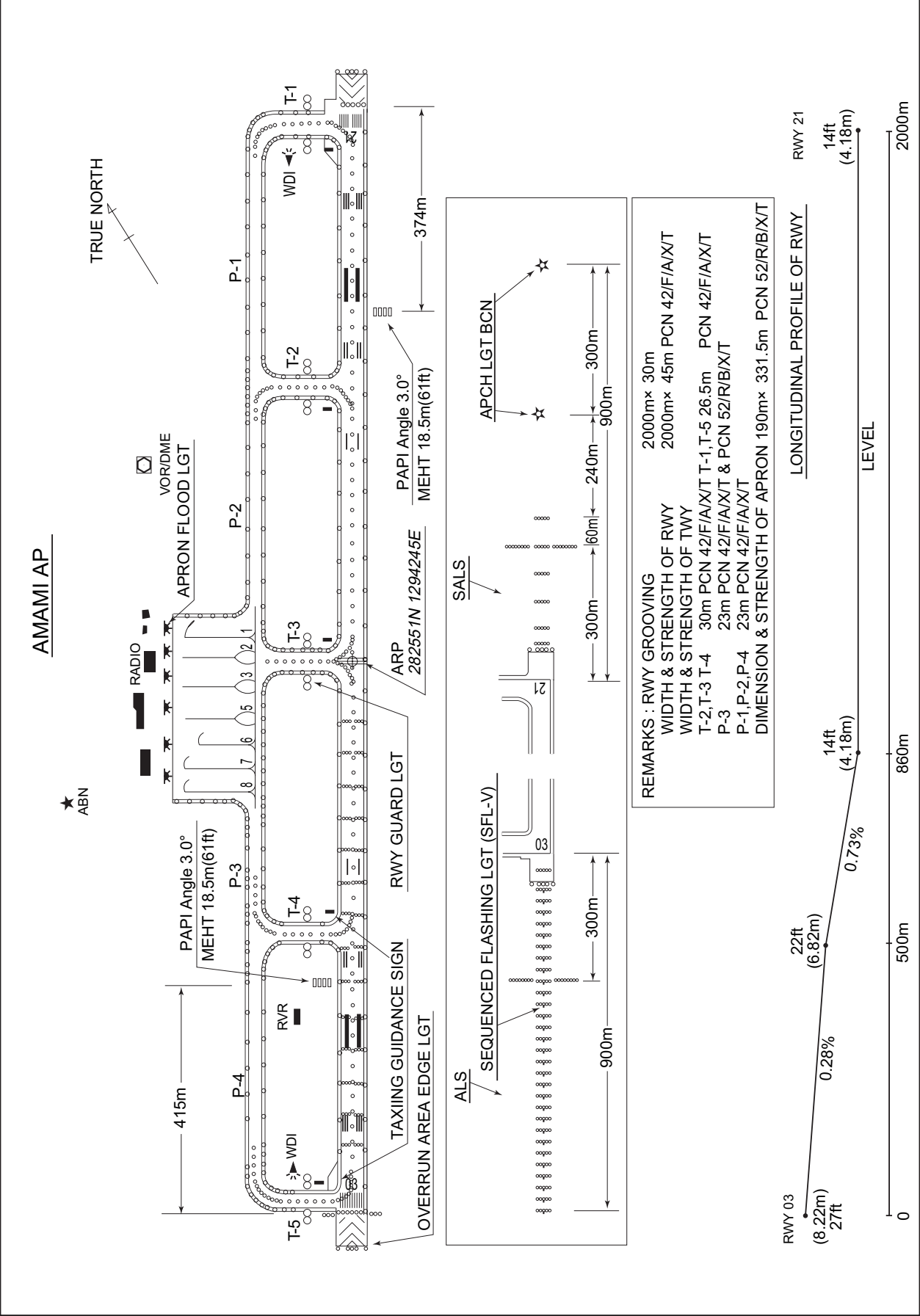


RJKA / AMAMI

AD CHART



STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

RNAV SID

RURIK TWO DEPARTURE

Basic RNP1

Note GNSS required.

VAR 6°W (2021)



RURIK TWO DEPARTURE

RWY03 : Climb on HDG032° at or above 500FT, direct to RURIK at or above 7000FT.

RWY21 : Climb on HDG212° at or above 500FT, turn left direct to KA102 at or above 4000FT, to RURIK at or above 7000FT.

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

CHANGE : VAR.

STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

RNAV SID

RURIK TWO DEPARTURE

RWY 03

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)	-6.2	—	—	+500	—	—	Basic RNP1
002	DF	RURIK	—	—	-6.2	—	—	+7000	—	—	Basic RNP1

RWY 21

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)	-6.2	—	—	+500	—	—	Basic RNP1
002	DF	KA102	—	—	-6.2	—	L	+4000	—	—	Basic RNP1
003	TF	RURIK	—	028 (022.2)	-6.2	53.2	—	+7000	—	—	Basic RNP1

CHANGE : VAR.

STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

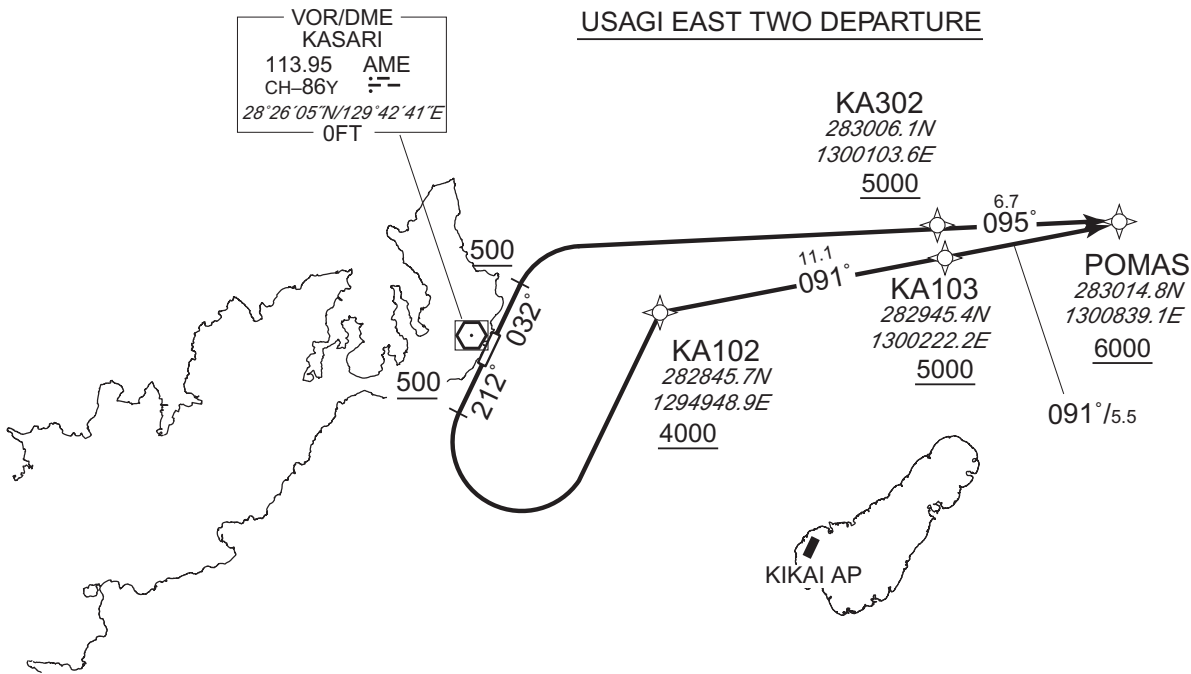
RNAV SID

USAGI EAST TWO DEPARTURE

Basic RNP1

Note GNSS required.

VAR 6°W (2021)



USAGI EAST TWO DEPARTURE

RWY03 : Climb on HDG032° at or above 500FT, turn right direct to KA302 at or above 5000FT, to POMAS at or above 6000FT.

RWY21 : Climb on HDG212° at or above 500FT, turn left direct to KA102 at or above 4000FT, to KA103 at or above 5000FT, to POMAS at or above 6000FT.

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

CHANGE : VAR.

STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

RNAV SID

USAGI EAST TWO DEPARTURE

RWY 03

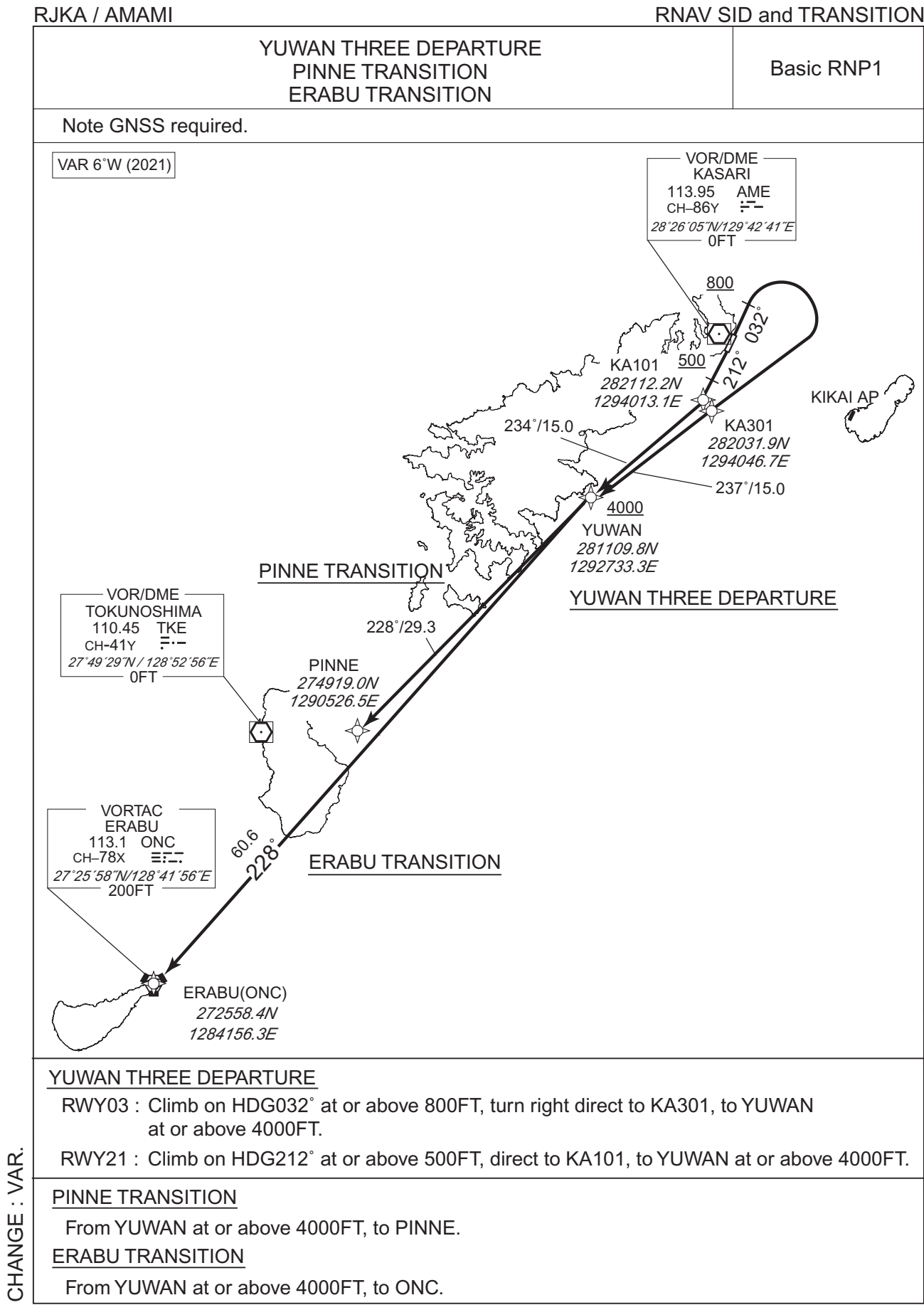
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	032 (025.8)	-6.2	—	—	+500	—	—	Basic RNP1
002	DF	KA302	—	—	-6.2	—	R	+5000	—	—	Basic RNP1
003	TF	POMAS	—	095 (088.7)	-6.2	6.7	—	+6000	—	—	Basic RNP1

RWY 21

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)	-6.2	—	—	+500	—	—	Basic RNP1
002	DF	KA102	—	—	-6.2	—	L	+4000	—	—	Basic RNP1
003	TF	KA103	—	091 (084.8)	-6.2	11.1	—	+5000	—	—	Basic RNP1
004	TF	POMAS	—	091 (084.9)	-6.2	5.5	—	+6000	—	—	Basic RNP1

CHANGE : VAR.

STANDARD DEPARTURE CHART -INSTRUMENT



STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

RNAV SID and TRANSITION

YUWAN THREE DEPARTURE

RWY 03

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)	-6.2	—	—	+800	—	—	Basic RNP1
002	DF	KA301	—	—	-6.2	—	R	—	—	—	Basic RNP1
003	TF	YUWAN	—	237 (231.2)	-6.2	15.0	—	+4000	—	—	Basic RNP1

RWY 21

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)	-6.2	—	—	+500	—	—	Basic RNP1
002	DF	KA101	—	—	-6.2	—	—	—	—	—	Basic RNP1
003	TF	YUWAN	—	234 (228.1)	-6.2	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	—	—	-6.2	—	—	+4000	—	—	Basic RNP1
002	TF	PINNE	—	228 (221.9)	-6.2	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	—	—	-6.2	—	—	+4000	—	—	Basic RNP1
002	TF	ONC	—	228 (221.9)	-6.2	60.6	—	—	—	—	Basic RNP1

CHANGE : VAR.

STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

RNAV SID

MUCHA ONE DEPARTURE

Basic RNP1

Note GNSS required.



MUCHA ONE DEPARTURE

RWY03 : Climb on HDG032° at or above 500FT, turn right direct to MUCHA at or above 3000FT.

RWY21 : Climb on HDG212° at or above 500FT, turn left direct to MUCHA at or above 3000FT.

MUCHA 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)	-6.2	-	-	+500	-	-	Basic RNP1
002	DF	MUCHA	-	-	-6.2	-	R	+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)	-6.2	-	-	+500	-	-	Basic RNP1
002	DF	MUCHA	-	-	-6.2	-	L	+3000	-	-	Basic RNP1

CHANGE : VAR.

STANDARD DEPARTURE CHART -INSTRUMENT

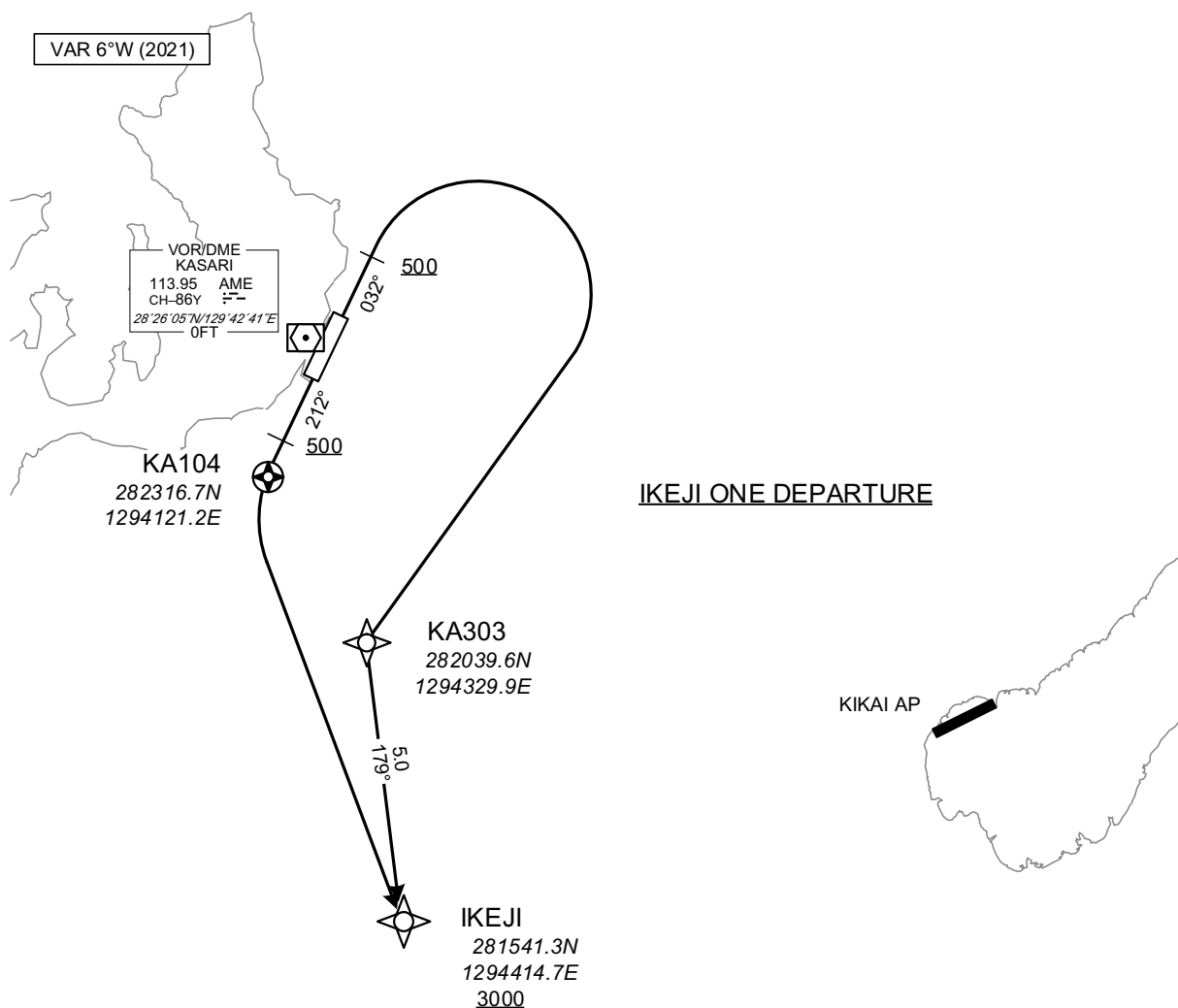
RJKA / AMAMI

RNAV SID

IKEJI ONE DEPARTURE

Basic RNP1

Note GNSS required.

IKEJI ONE DEPARTURE

RWY03 : Climb on HDG032° at or above 500FT, turn right direct to KA303, to IKEJI at or above 3000FT.

RWY21 : Climb on HDG212° at or above 500FT, direct to KA104, turn left direct to IKEJI at or above 3000FT.

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

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

CHANGE : VAR.

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)	-6.2	-	-	+500	-	-	Basic RNP1
002	DF	KA303	-	-	-6.2	-	R	-	-	-	Basic RNP1
003	TF	IKEJI	-	179 (172.5)	-6.2	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)	-6.2	-	-	+500	-	-	Basic RNP1
002	DF	KA104	Y	-	-6.2	-	-	-	-	-	Basic RNP1
003	DF	IKEJI	-	-	-6.2	-	L	+3000	-	-	Basic RNP1

CHANGE : VAR.

STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

SID

PINNE FIVE 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.

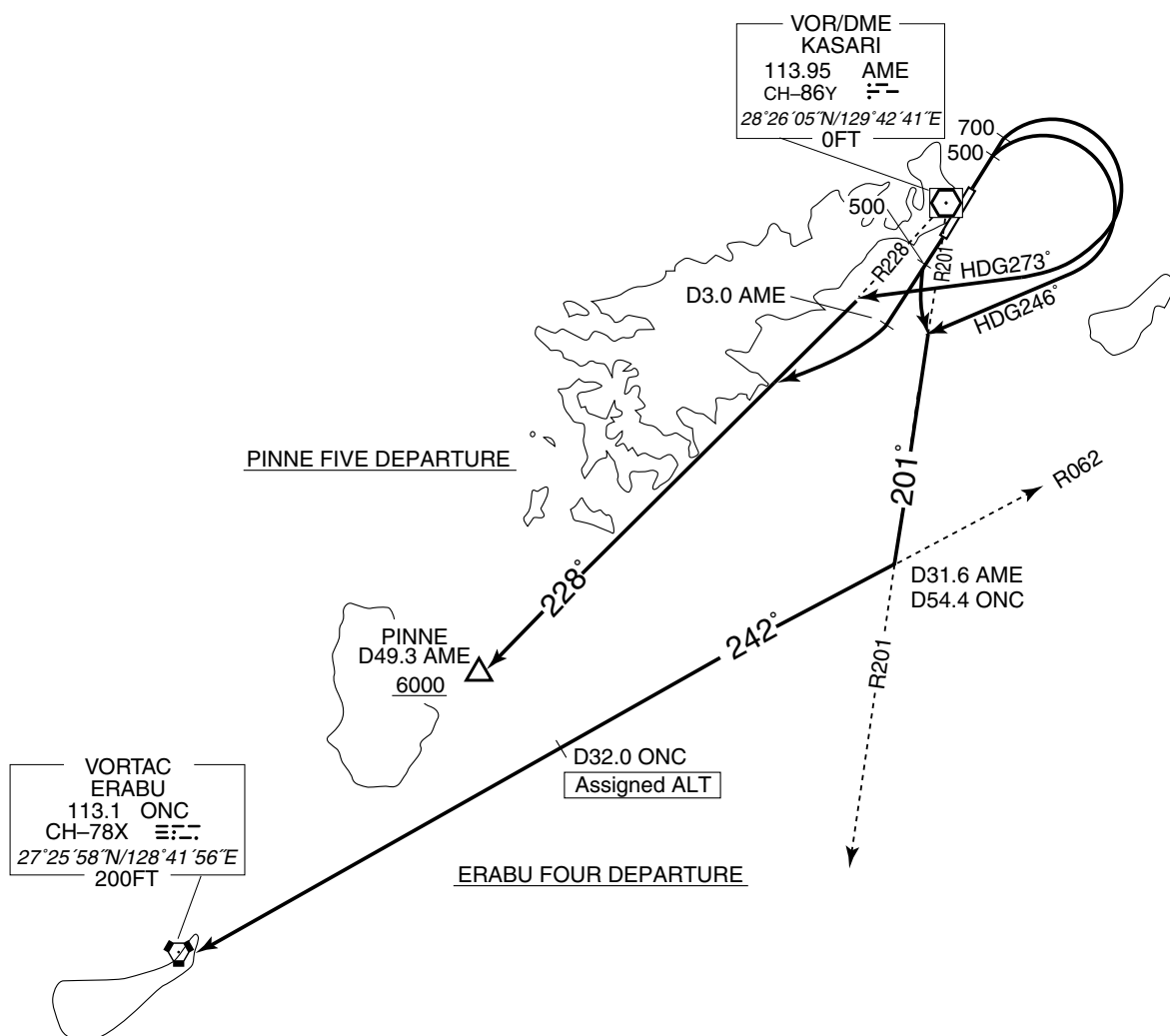
ERABU FOUR DEPARTURE

RWY 03 : Climb RWY HDG to 500FT, turn right HDG246° to intercept and proceed...

RWY 21 : Climb RWY HDG to 500FT, turn left,...

... via AME R201, via ONC R062 to ONC VORTAC.

Cross ONC R062/32.0DME at assigned altitude.



STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

SID

KASARI REVERSAL TWO 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.

POMAS FOUR DEPARTURE

RWY03 : Climb RWY HDG to 500FT, turn right HDG130°...

RWY21 : Climb RWY HDG to 500FT, turn left HDG040°...

... to intercept and proceed via AME R085 to POMAS.

Cross POMAS at or above 6000FT.

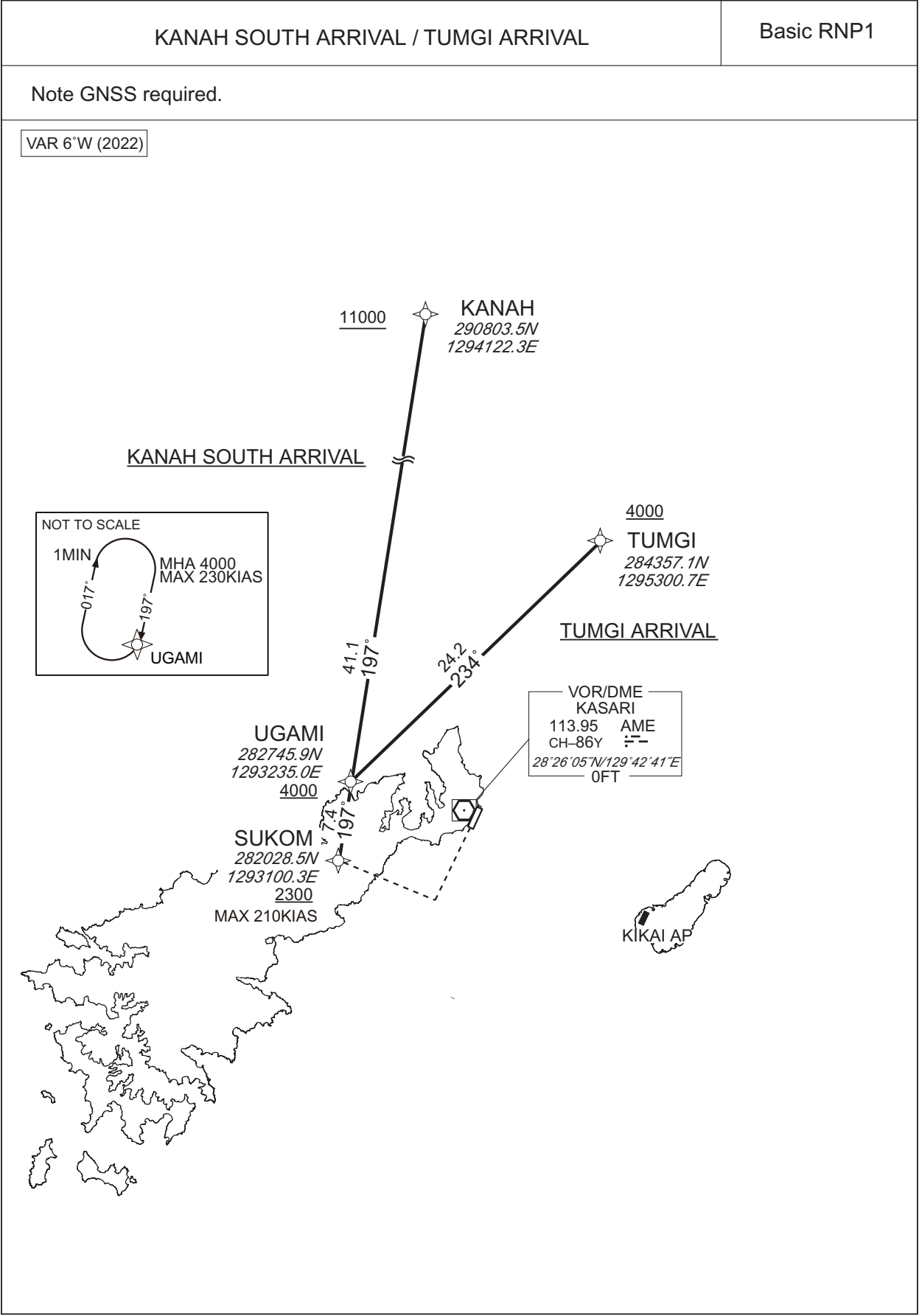


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STANDARD ARRIVAL CHART-INSTRUMENT

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

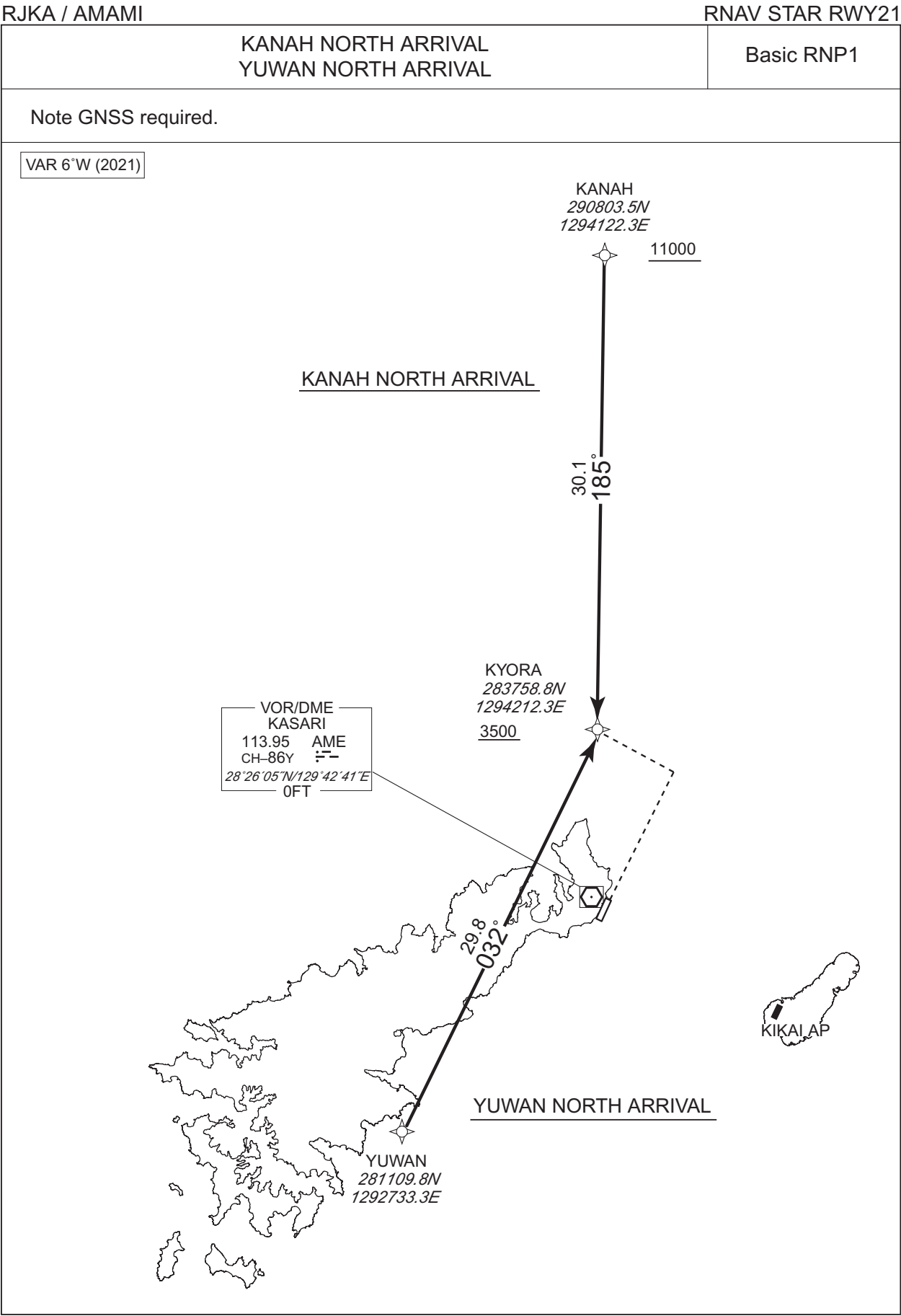
From TUMGI at or above 4000FT, to UGAMI at or above 4000FT, to SUKOM at or above 2300FT.

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



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 Z or LOC Z RWY03

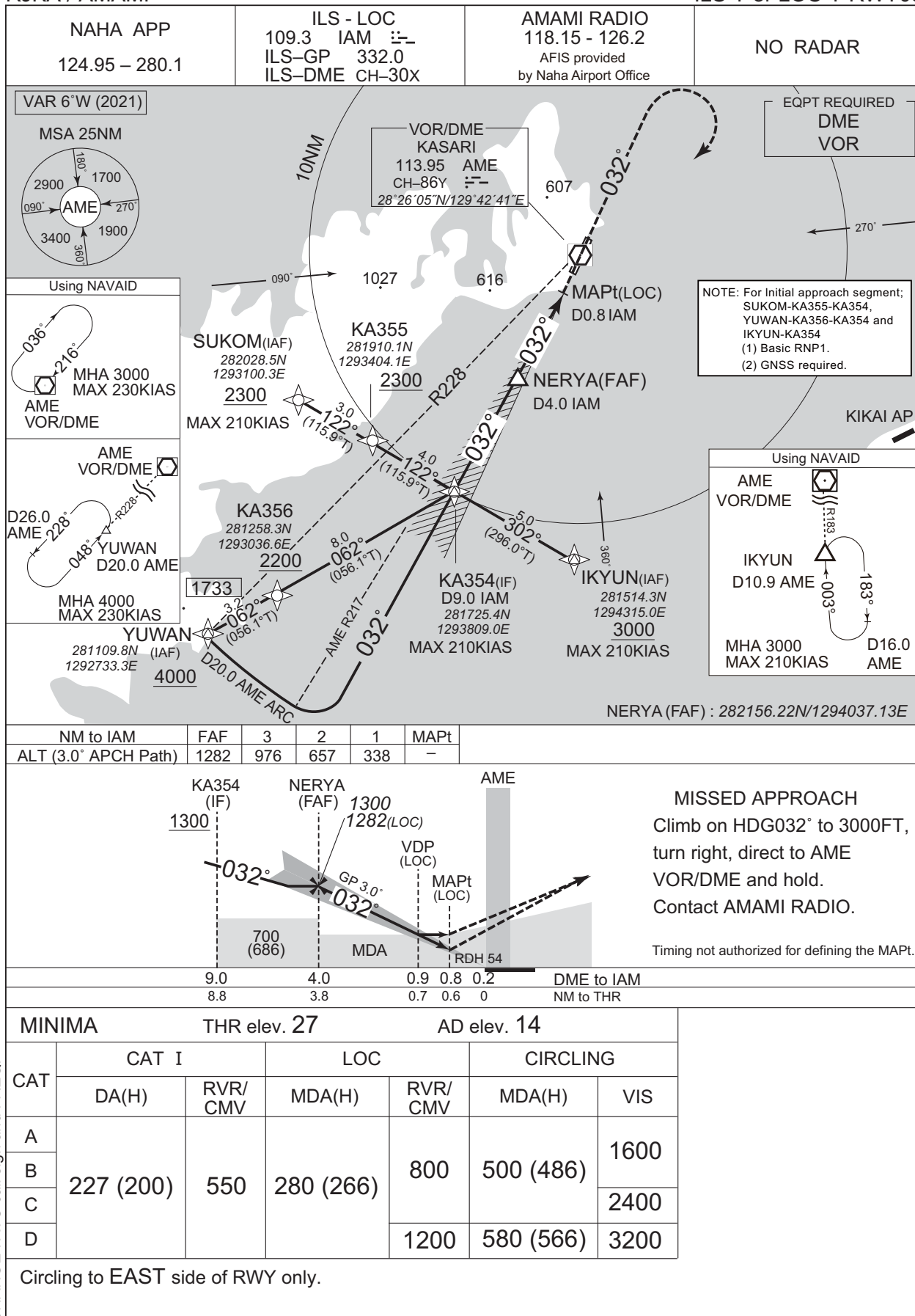


CHANGE : ATC call sign and FREQ.

INSTRUMENT APPROACH CHART

RJKA / AMAMI

ILS Y or LOC Y RWY03

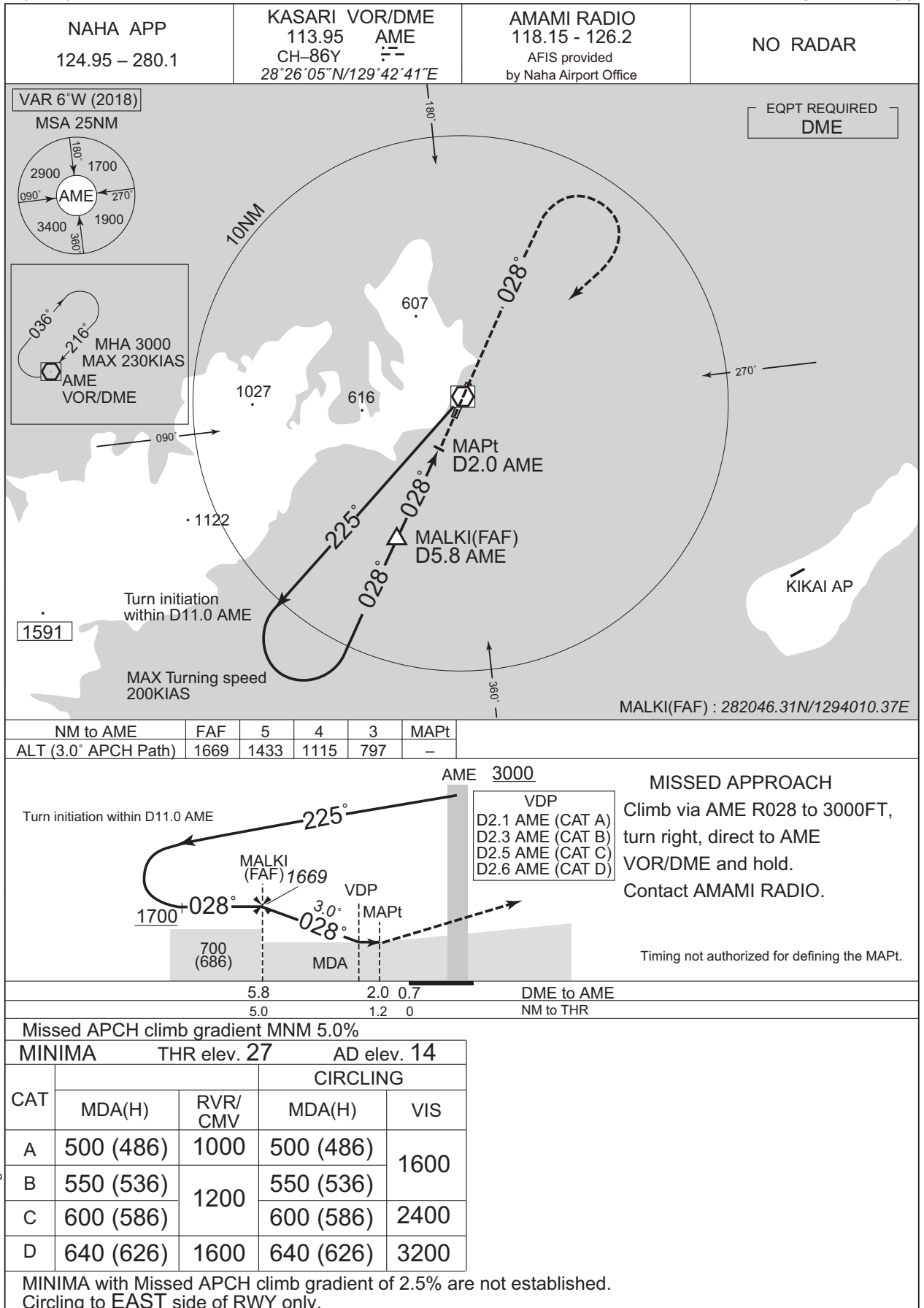


CHANGE : ATC call sign and FREQ.

INSTRUMENT APPROACH CHART

RJKA / AMAMI

VOR RWY03



CHANGE : ATC call sign and FREQ.

INSTRUMENT APPROACH CHART

RJKA / AMAMI

VOR RWY21

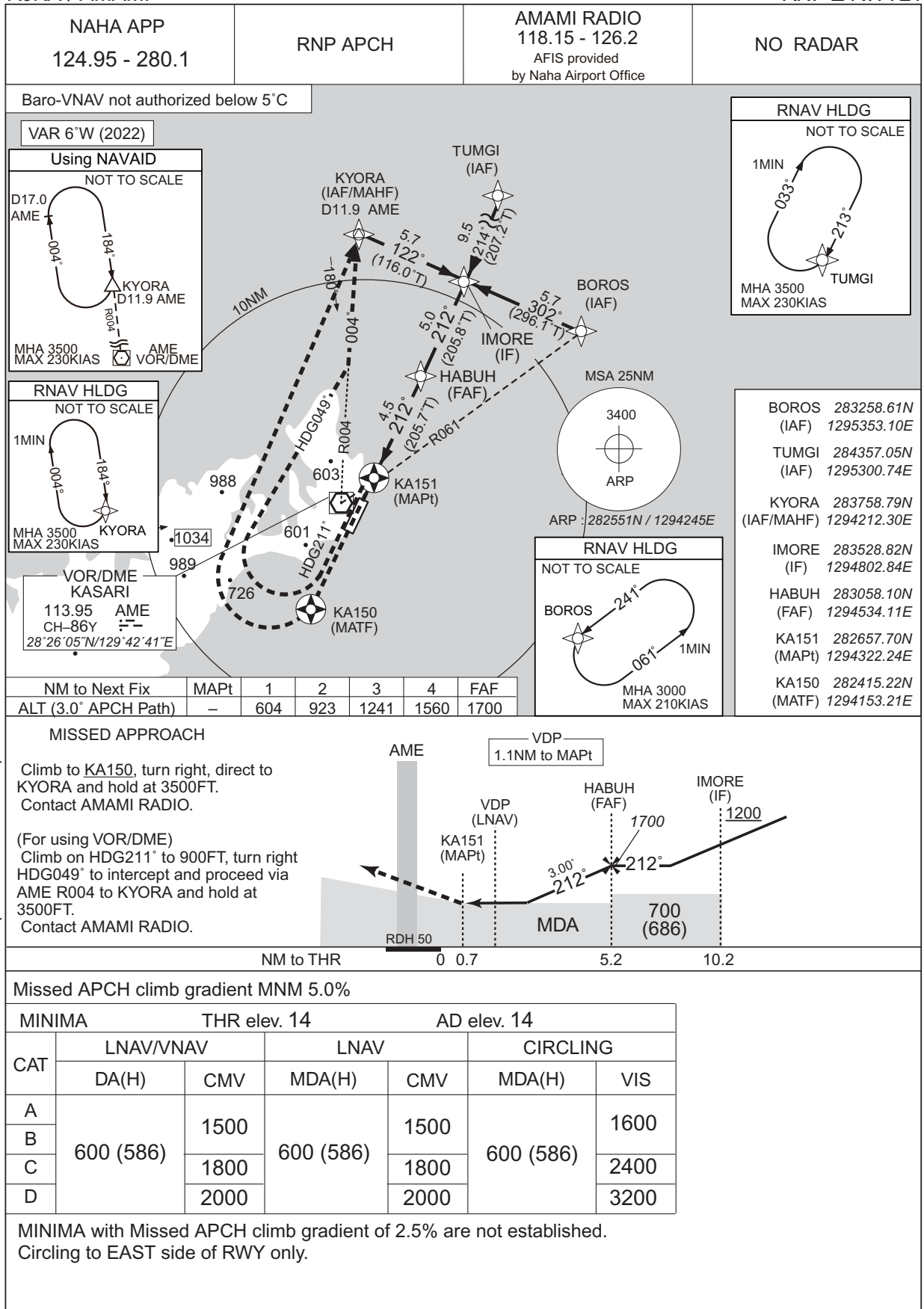


CHANGE : ATC call sign and FREQ.

INSTRUMENT APPROACH CHART

RJKA / AMAMI

RNP Z RWY21

CHANGE : VAR. PROC course FM TUMGI to IMORE. RNAV HLDG established (KYORA, BOROS, TUMGI).
HLDG for NAVAIDS abolished (TUMGI, BOROS).

INSTRUMENT APPROACH CHART

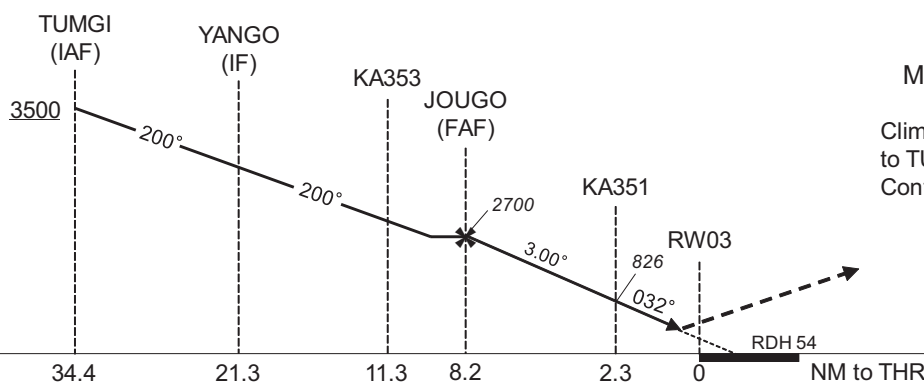
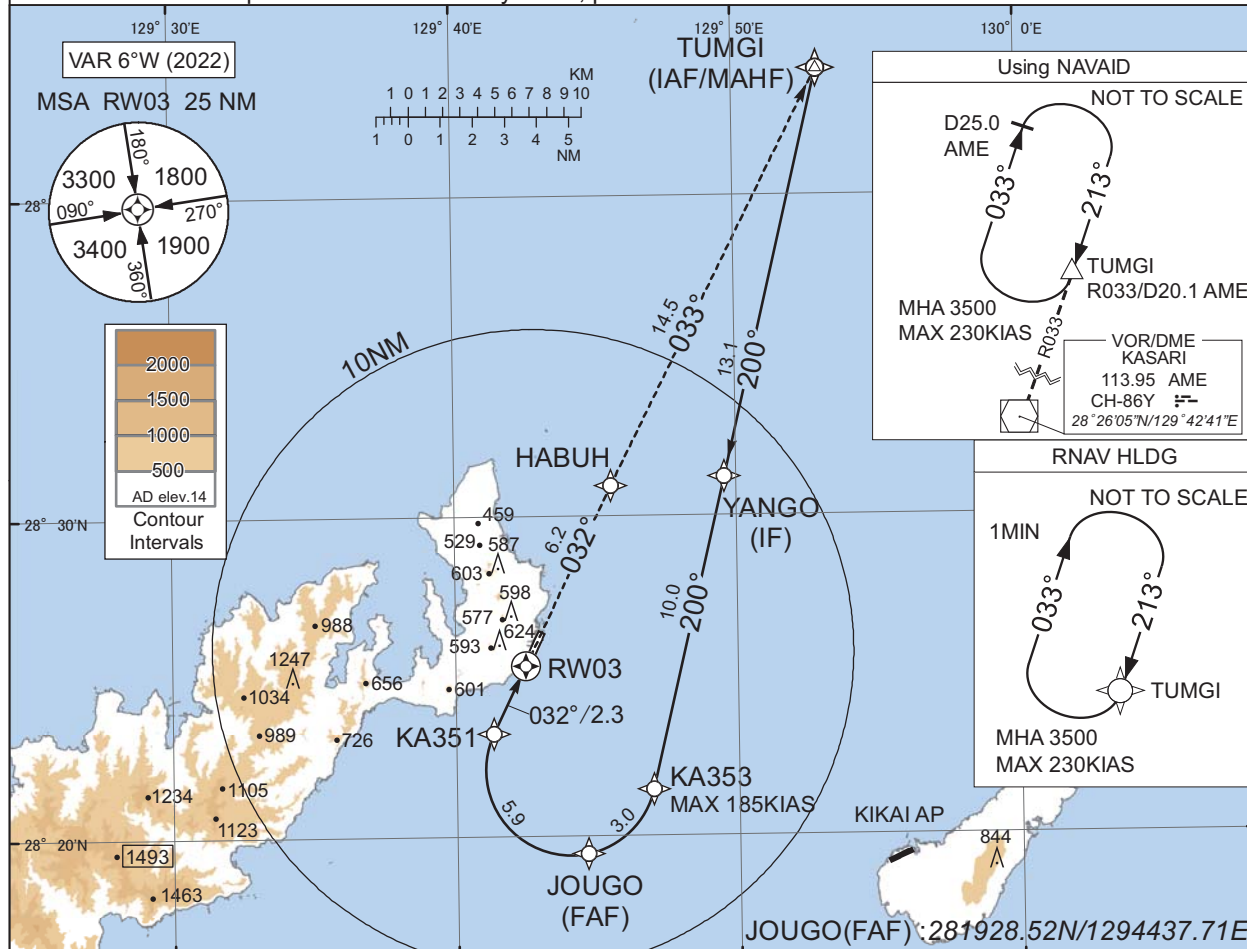
RJKA / AMAMI

RNP RWY03(AR)

NAHA APP
124.95 - 280.1RNP AR
RF required.AMAMI RADIO
118.15 - 126.2
AFIS provided by
Naha Airport Office

NO RADAR

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



MISSED APPROACH

Climb to 3500FT, to HABUH,
to TUMGI and hold.
Contact AMAMI RADIO.

Missed APCH climb gradient MNM 5.0%

CAT	THR elev. 27		AD elev. 14	
	RNP 0.13		RNP 0.30	
	DA(H)	RVR/CMV	DA(H)	RVR/CMV
A	-	-	-	-
B	-	-	-	-
C	327(300)	1000	554(527)	1200
D		1400		1600

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

Authorization Required

CHANGE : VAR. MSA (BTN 090° and 180°). RNAV HLDG established.

INSTRUMENT APPROACH CHART

RJKA / AMAMI

RNP 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	-	-	-6.3	-	-	+3500	-	-	-
002	TF	YANGO	-	200 (193.3)	-6.3	13.1	-	-	-	-	1.0
003	TF	KA353	-	200 (193.3)	-6.3	10.0	-	+2700	-185	-	1.0
004	RF Center: KARF1 r=2.65NM	JOUGO	-	-	-6.3	3.0	R	2700	-	-	1.0
005	RF Center: KARF1 r=2.65NM	KA351	-	-	-6.3	5.9	R	826	-	-3.00	0.13 0.30
006	TF	RW03	Y	032 (025.7)	-6.3	2.3	-	81	-	-3.00/54	0.13 0.30
007	TF	HABUH	-	032 (025.7)	-6.3	6.2	-	-	-	-	1.0
008	TF	TUMGI	-	033 (026.7)	-6.3	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

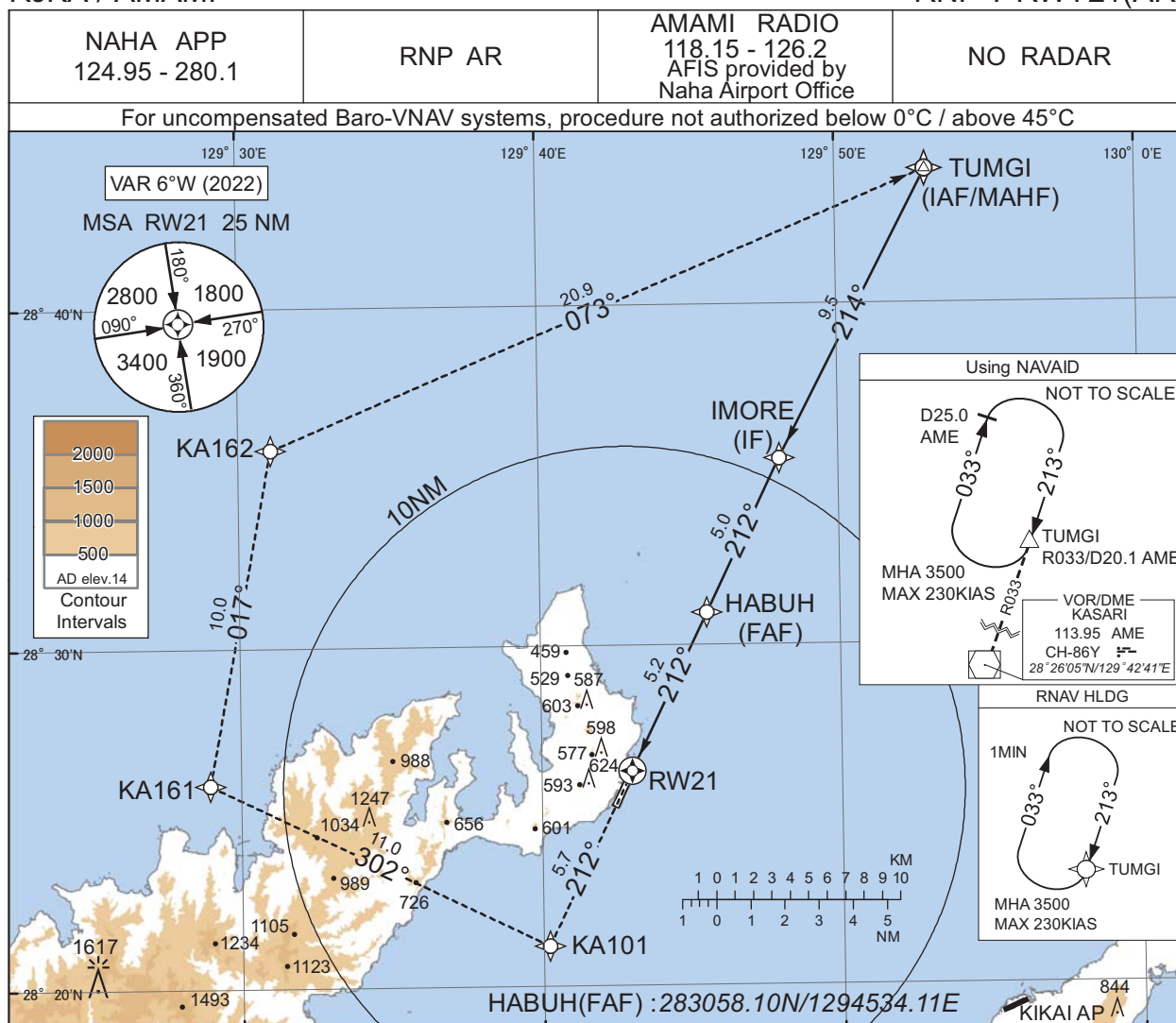
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
TUMGI	284357.05N / 1295300.74E	KARF1	282205.14N / 1294402.59E
YANGO	283113.92N / 1294935.29E		
KA353	282128.37N / 1294658.25E		
JOUGO	281928.52N / 1294437.71E		
KA351	282314.74N / 1294120.10E		
RW03	282521.39N / 1294229.46E		
HABUH	283058.10N / 1294534.11E		

CHANGE : VAR. RNAV HLDG established.

INSTRUMENT APPROACH CHART

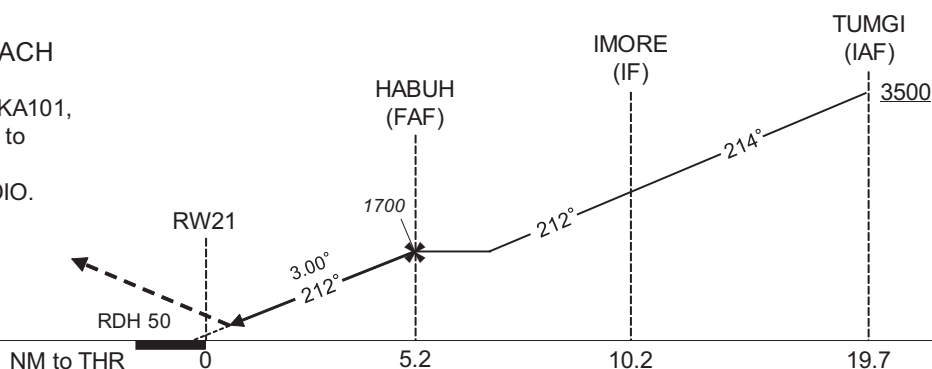
RJKA / AMAMI

RNP Y RWY21(AR)



MISSED APPROACH

Climb to 3500FT, to KA101,
to KA161, to KA162, to
TUMGI and hold.
Contact AMAMI RADIO.



Missed APCH climb gradient MNM 5.0%

CAT	THR elev. 14		AD elev. 14	
	RNP 0.14		RNP 0.30	
	DA(H)	CMV	DA(H)	CMV
A	-	-	-	-
B	-	-	-	-
C	325(311)	1600	528(514)	1800
D		1800		2000

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

Authorization Required

CHANGE : VAR. PROC course FM TUMGI to IMORE. RNAV HLDG established.

INSTRUMENT APPROACH CHART

RJKA / AMAMI

RNP Y RWY21(AR)

Coding Table

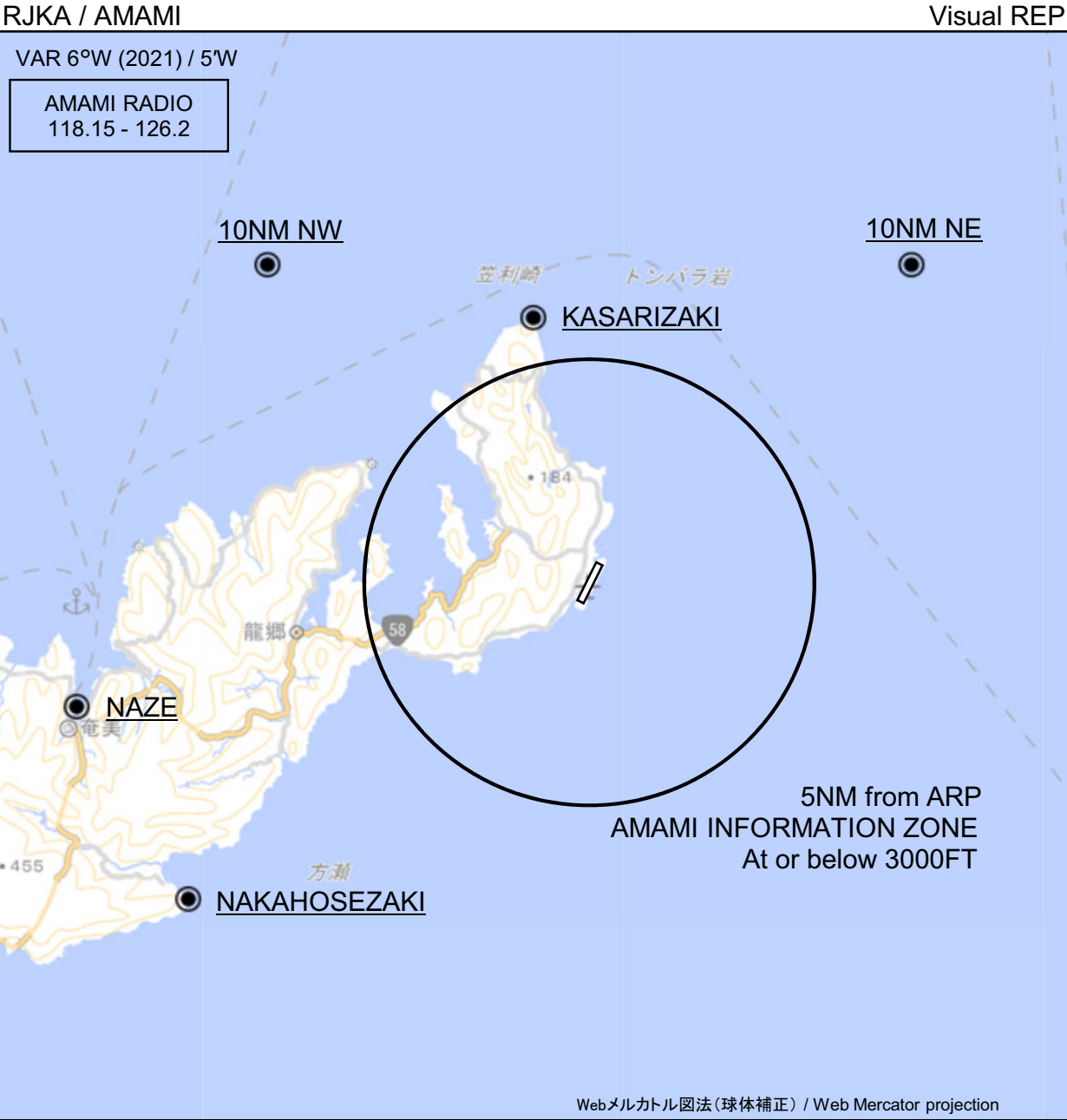
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/ RDH (°/FT)	RNP Value
001	IF	TUMGI	-	-	-6.3	-	-	+3500	-	-	-
002	TF	IMORE	-	214 (207.2)	-6.3	9.5	-	-	-	-	1.0
003	TF	HABUH	-	212 (205.8)	-6.3	5.0	-	1700	-	-	1.0
004	TF	RW21	Y	212 (205.7)	-6.3	5.2	-	64	-	-3.00/50	0.14 0.30
005	TF	KA101	-	212 (205.7)	-6.3	5.7	-	-	-	-	1.0
006	TF	KA161	-	302 (295.9)	-6.3	11.0	-	-	-	-	1.0
007	TF	KA162	-	017 (010.7)	-6.3	10.0	-	-	-	-	1.0
008	TF	TUMGI	-	073 (067.1)	-6.3	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
IMORE	283528.82N / 1294802.84E
HABUH	283058.10N / 1294534.11E
RW21	282619.79N / 1294301.46E
KA101	282112.20N / 1294013.10E
KA161	282600.04N / 1292858.96E
KA162	283551.31N / 1293105.90E

CHANGE : VAR. PROC course FM TUMGI to IMORE. RNAV HLDG established.



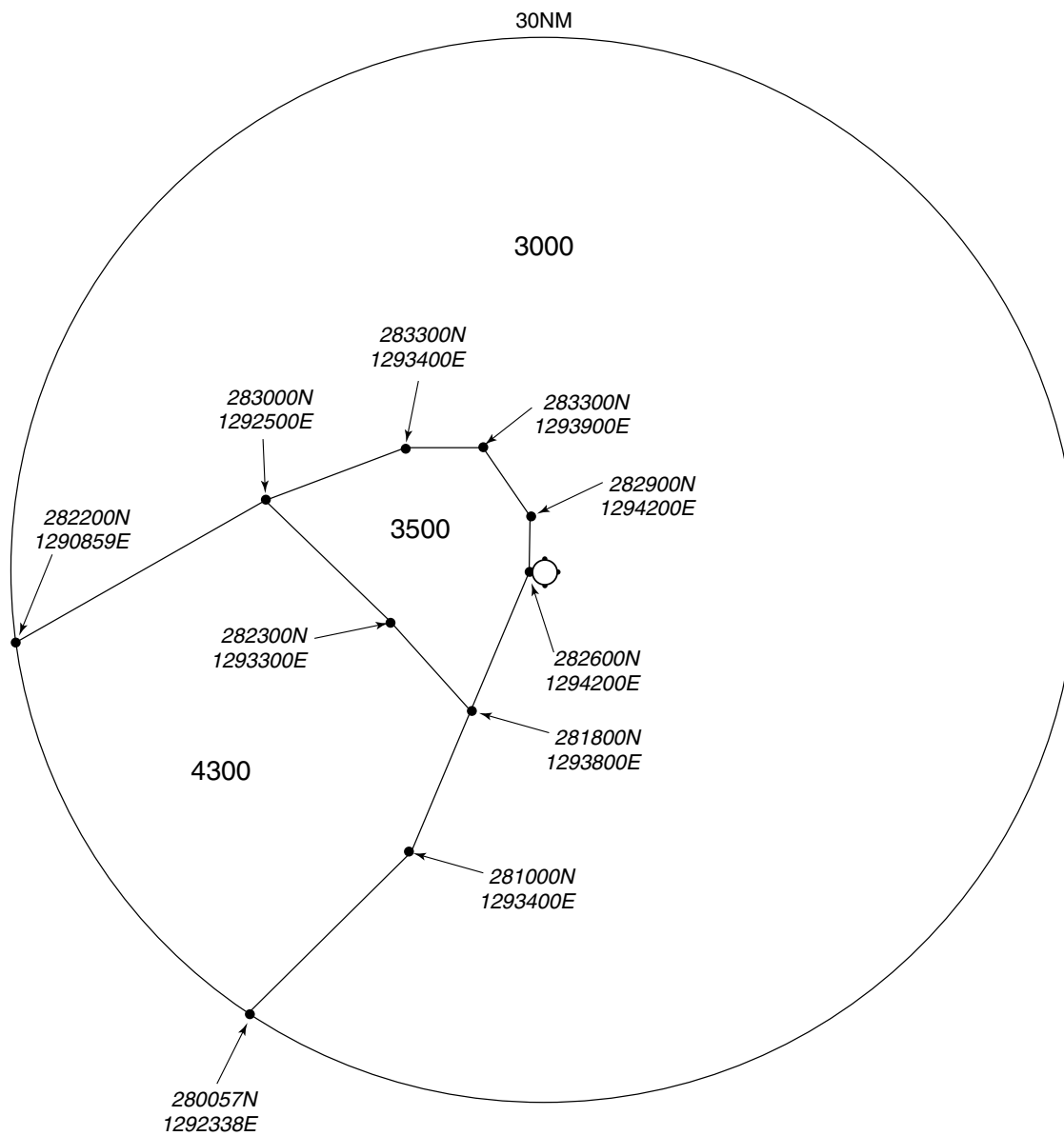
※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

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)