AD 2 AERODROMES

RJKA AD 2.1 AERODROME LOCATION INDICATOR AND NAME

RJKA - AMAMI

RJKA AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	*282551N/1294245E* 025° / 1.0km FM RWY 03 THR
2	Direction and distance from (city)	21.87km ENE from Amami city.
3	Elevation/ Reference temperature	14ft / 33°C(2004-2008)
4	Geoid undulation at AD ELEV PSN	Nil
5	MAG VAR/ Annual change	6° W(2021) / 5'W
6	AD Administration, address, telephone, telefax, telex, AFS, e-mail and/or Web-site addresses	KAGOSHIMA PREF PUBLIC AP 374-4, Kaneku, Nagahama, Wano, Kasari-cho, Amami-city, Kagoshima Pref. 894-0503 JAPAN. Tel:0997-63-0277 Fax:0997-63-2198
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Nil

RJKA AD 2.3 OPERATIONAL HOURS

1	AD Administration	2300 - 1030
2	Customs and immigration	On request Customs: 099-260-3125 Immigration: 099-222-5658
3	Health and sanitation	Quarantine(human): On request(099-222-8670) Quarantine(animal, plant): Nil
4	AIS Briefing Office	Nil
5	ATS Reporting Office(ARO)	Nil
6	MET Briefing Office	H24 (FUKUOKA)
7	ATS	2300 - 1030 Remarks: AFIS provided by Naha Airport Office.
8	Fuelling	2300 - 1030
9	Handling	2300 - 1030
10	Security	2300 - 1030
11	De-icing	Nil
12	Remarks	Nil

RJKA AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	Alll the modern institutions that deal with the weight thing to a MD81 type freighter.
2	Fuel/ oil types	JET A-1, AVGAS100
3	Fuelling facilities/ capacity	Fuelling facilities : Fuel truck x 1, Capacity : 4500l / h
4	De-icing facilities	Nil
5	Hangar space for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	Nil

RJKA AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in the city.
2	Restaurants	Available, not continuous
3	Transportation	Buses, taxies
4	Medical facilities	Hospitals in the city.
5	Bank and Post Office	Bank in the city.
6	Tourist Office	Not available
7	Remarks	Nil

RJKA AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	CAT 7
2	Rescue equipment	Chemical fire fighting truck x 2
3	Capability for removal of disabled aircraft	Nil
4	Remarks	Nil

RJKA AD 2.7 SEASONAL AVAILABILITY-CLEARING

1	Types of clearing equipment	Not Applicable
2	Clearance priorities	Nil
3	Remarks	Nil

RJKA AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron surface and strength	Surface: cement-concrete, Strength: PCR 845/R/B/W/T
2	Taxiway width, surface and strength	T2, T3, T4 Width : 30m, Surface : Asphalt-concrete, Strength : PCR 803/F/A/X/T T1, T5 Width : :26.5m, Surface : Asphalt-concrete, Strength : PCR 803/F/A/X/T P3 Width : :23m, Surface : Asphalt-concrete, Strength : PCR 803/F/A/X/T & PCR 845/R/B/W/T P1, P2, P4 Width : :23m, Surface : Asphalt-concrete, Strength : PCR 803/F/A/X/T
3	ACL and elevation	Not available
4	VOR checkpoints	Not available
5	INS checkpoints	Spot NR 1: *282556.91N1294235.33E* 2: *282555.56N1294233.44E* 3: *282554.10N1294232.64E* 5: *282552.47N1294231.91E* 6: *282550.93N1294232.34E* 7: *282549.75N1294230.89E* 8: *282548.65N1294230.29E*
6	Remarks	Nil

RJKA AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and Visual docking/ parking guidance system of aircraft stands	Nil
2	RWY and TWY markings and LGT	RWY: RWY 03/21 (Marking) RWY designation, RWY CL, RWY THR, RWY middle point, Aiming point, TDZ, RWY side stripe (LGT) RCLL, REDL, RTHL, WBAR(RWY03), RENL, RTZL(RWY03) TWY: (Marking) TWY CL, RWY HLDG PSN(T1-T5), TWY side stripe (LGT) TWY edge LGT, TWY CL LGT, RWY guard LGT(T1-T5), Taxiing gudance sign(T1-T5)
3	Stop bars	Nil
4	Remarks	(Marking) Overrun area (LGT) APN flood LGT

RJKA AD 2.10 AERODROME OBSTACLES

In Area2 See Obstacle data

In Area3 To be developed

RJKA AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	FUKUOKA
2	Hours of service MET Office outside hours	H24 (FUKUOKA)
3	Office responsible for TAF preparation Periods of validity	Nil
4	Trend forecast Interval of issuance	Nil
5	Briefing/ consultation provided	Briefing is available upon inquiry at FUKUOKA
6	Flight documentation Language(s) used	C En
7	Charts and other information available for briefing or consultation	S_6, U_{85}, U_7, U_5 U_3, U_{25}, U_2/T_r, P_S, P_5, P_3, P_{25}, P_{SWE}, $P_{SWF,}$ P_{SWG}, P_{SWI}, P_{SWM}, P_{SW}(domestic), E, C, W_E, W_F, W_G, W_I, W, N
8	Supplementary equipment available for providing information	Nil
9	ATS units provided with information	RADIO
10	Additional information (limitation of service, etc.)	Nil

RJKA AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY(M)	Strength(PCR) and surface of RWY	THR coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
03	025.75°	2000×45	PCR 803/F/A/X/T Asphalt Concrete	*282521.18N* *1294229.11E*	THR ELEV: 27ft TDZ ELEV : 27ft
21	205.75°	2000×45	PCR 803/F/A/X/T Asphalt Concrete	*282619.61N* *1294301.26E*	THR ELEV: 14ft

Slope of RWY	Strip Dimensions(M)	RESA (Overrun) Dimensions(M)	Remarks
7	10	11	14
See AD2.24 AD chart	2120×300	189 × (MNM:153 MAX:298)*	RWY Grooving:2000×30m
	2120×300	41 × (MNM:218 MAX:252)* *For detail, ask airport administrator	

RJKA AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
03	2000	2000	2000	2000	Nil
21	2000	2000	2000	2000	Nil

RJKA AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	RTHL Color WBAR	PAPI (VASIS) Angle DIST FM THR MEHT	RTZL LEN	RCLL LEN Spacing Color INTST	REDL LEN Spacing Color INTST	RENL Color WBAR	STWL LEN Color
1	2	3	4	5	6	7	8	9
03	PALS (CAT Ⅰ) 900m LIH	Green Green	PAPI 3.0°/LEFT 415m 61ft	900m	2000m 30m Coded color (White/Red) LIH	2000m 60m Coded color (White/Yellow) LIH	RED	Nil (*2)
21	SALS (*1) 360m LIH	Green Nil	PAPI 3.0°/LEFT 374m 61ft	Nil	2000m 30m Coded color (White/Red) LIH	2000m 60m Coded color (White/Yellow) LIH	RED	Nil (*2)
Remarks								
10								
SALS with APCH LGT beacon(600m and 900m FM RWY THR)(*1) Overrun area edge LGT(LEN:60m Color:Red)(*2)								

RJKA AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: *282551N/1294222E*,White/Green EV4.3sec, HO
2	LDI location and LGT Anemometer location and LGT	LDI : Nil Anemometer : RWY 03 : 330m FM RWY 03 THR, LGTD RWY 21 : 320m FM RWY 21 THR, LGTD
3	TWY edge and centerline lighting	TWY edge and center line lights installed, see AD 2.9
4	Secondary power supply/ switch-over time	Within 1sec: REDL, RENL, RTHL, WBAR, RCLL and Overrun area edge LGT Within 15sec: Other Lights
5	Remarks	WDI LGT

RJKA AD 2.16 HELICOPTER LANDING AREA

Nil

RJKA AD 2.17 ATS AIRSPACE

Designation and lateral limits		Vertical limits (ft)	Airspace classification	ATS unit call sign Language	Remarks
1		2	3	4	6
Amami Information Zone	Area within a radius of 5nm(9km) of Amami ARP	3,000 or below	E	AMAMI RADIO En	
Naha ACA	See ROAH attached chart		E	Naha APP En	

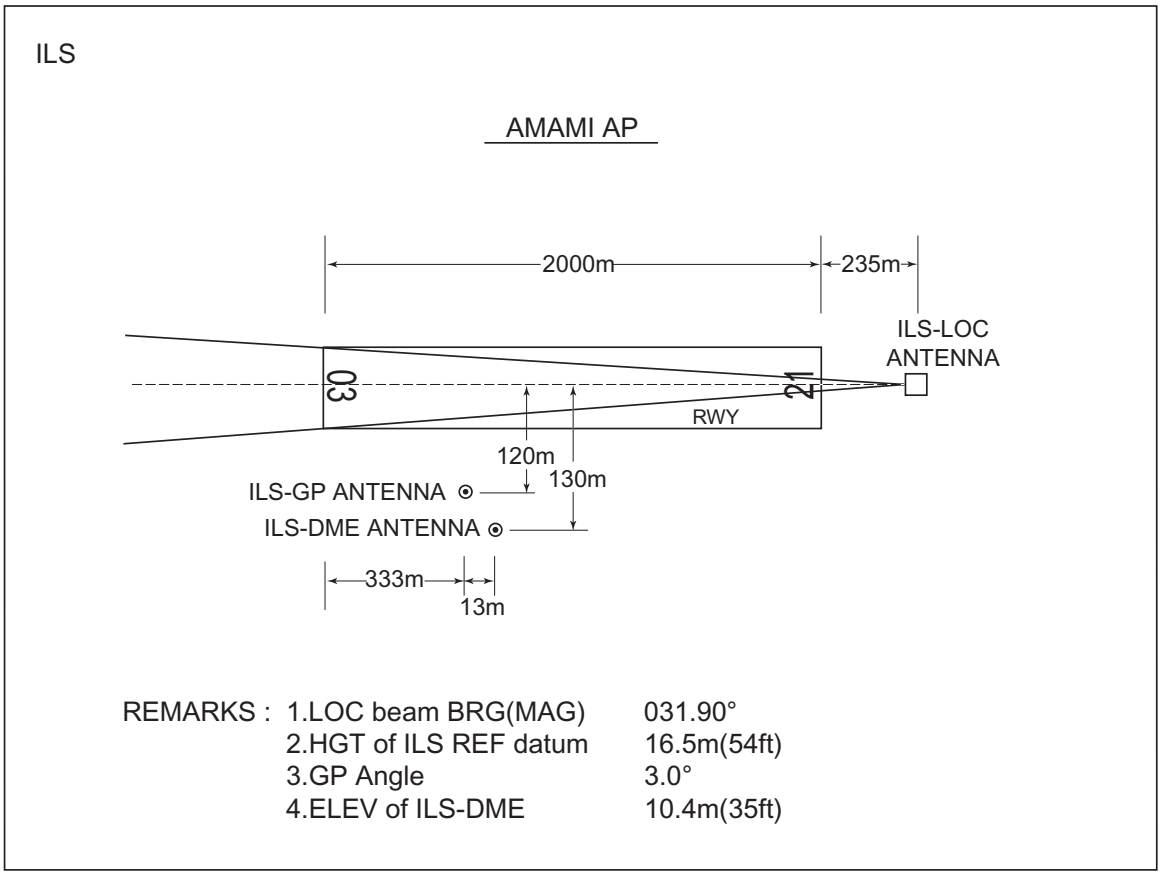
RJKA AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
APP	NAHA APPROACH	124.95MHz 280.1MHz	2300 - 1030	
AFIS	AMAMI RADIO	118.15MHz(1) 126.2MHz	2300 - 1030	Operated by Naha Airport Office. (1)Primary

RJKA AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid (VOR declination)	ID	Frequency	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
VOR (6°W/2015)	AME	113.95MHz	H24	*282604.98N 1294241.07E*		VOR Unusable : 260°-280° beyond 20nm BLW 3000ft.
DME	AME	1047MHz (CH-86Y)	H24	*282604.98N 1294241.07E*	43ft	DME Unusable : 360°-010° beyond 20nm BLW 3000ft. 260°-280° beyond 15nm BLW 3000ft. 280°-300° beyond 20nm BLW 3000ft. 320°-360° beyond 20nm BLW 3000ft.
ILS-LOC 03	IAM	109.3MHz	2300 - 1030	*282626.50N 1294305.06E*		LOC: 235m (771ft) away FM RWY 21 THR, BRG (MAG) 031.90°
ILS-DME 03	IAM	991MHz	2300 - 1030	*282529.47N 1294238.89E*	35ft	DME: 346m (1135ft) inside FM RWY 03 THR, 130m (427ft) SE of RCL.
ILS-GP 03	-	332.0MHz	2300 - 1030	*282529.21N 1294238.44E*		GP: 333m (1093ft) inside FM RWY 03 THR, 120m (394ft) SE of RCL. GP Angle 3.0°, HGT of ILS Ref datum 16.5m (54ft).
MSAS		1575.42MHz	H24			Transmitting antennas are satelite based.

ILS



REMARKS : 1.LOC beam BRG(MAG) 031.90°
2.HGT of ILS REF datum 16.5m(54ft)
3.GP Angle 3.0°
4.ELEV of ILS-DME 10.4m(35ft)

RJKA AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Airport regulations

PPR for transient ACFT to use this AP.

2. Taxiing to and from stands

Nil

3. Parking area for small aircraft(General aviation)

Nil

4. Parking area for helicopters

Nil

5. Apron - taxiing during winter conditions

Nil

6. Taxiing - limitations

Nil

7. School and training flights - technical test flights - use of runways

Nil

8. Helicopter traffic - limitation

Nil

9. Removal of disabled aircraft from runways

Nil

RJKA AD 2.21 NOISE ABATEMENT PROCEDURES

Nil

RJKA AD 2.22 FLIGHT PROCEDURES

1.TAKE OFF MINIMA

	RWY	ACFT CAT	REDL & RCLL		REDL or RCLL or RCL marking		NIL (DAYTIME ONLY)	
			RVR	VIS	RVR	VIS	RVR	VIS
Multi-Engine ACFT with TKOF ALTN AP FILED	03	A, B, C, D	400	400	400	400	-	500
	21	A, B, C, D	-	400	-	400	-	500
OTHER	03	A, B, C, D	AVBL LDG MINIMA					
	21							

2.Lost communication procedures for arrival aircraft under radar navigational guidance
If radio communications with Naha Approach are lost for one minute, squawk Mode A/3 Code 7600 and;
1) Contact Amami Radio.
2) If unable, proceed in accordance with Visual Flight Rules.
3) If unable, proceed to Kasari VOR at the last assigned altitude, or 3,000 feet whichever is higher, and execute instrument approach.
NOTE: Procedures other than above will be issued when situation requires.

RJKA AD 2.23 ADDITIONAL INFORMATION

Nil

RJKA AD 2.24 CHARTS RELATED TO AN AERODROME

Aerodrome/Heliport Chart
Standard Departure Chart - Instrument (RURIK-RNAV)
Standard Departure Chart - Instrument (USAGI EAST-RNAV)
Standard Departure Chart - Instrument (YUWAN-RNAV)
Standard Departure Chart - Instrument (MUCHA-RNAV)
Standard Departure Chart - Instrument (IKEJI-RNAV)
Standard Departure Chart - Instrument (PINNE)
Standard Departure Chart - Instrument (KASARI REVERSAL)
Standard Arrival Chart-Instrument (KANAH SOUTH, TUMGI-RNAV)
Standard Arrival Chart-Instrument (KANAH NORTH, YUWAN NORTH-RNAV)
Instrument Approach Chart (ILS Z or LOC Z RWY03)
Instrument Approach Chart (ILS Y or LOC Y RWY03)
Instrument Approach Chart (VOR RWY03)
Instrument Approach Chart (VOR RWY21)
Instrument Approach Chart (RNP Z RWY03)
Instrument Approach Chart (RNP Y RWY03(AR))
Instrument Approach Chart (RNP Z RWY21)
Instrument Approach Chart (RNP Y RWY21(AR))
Other Chart (VISUAL REP)
Other Chart (MVA CHART)

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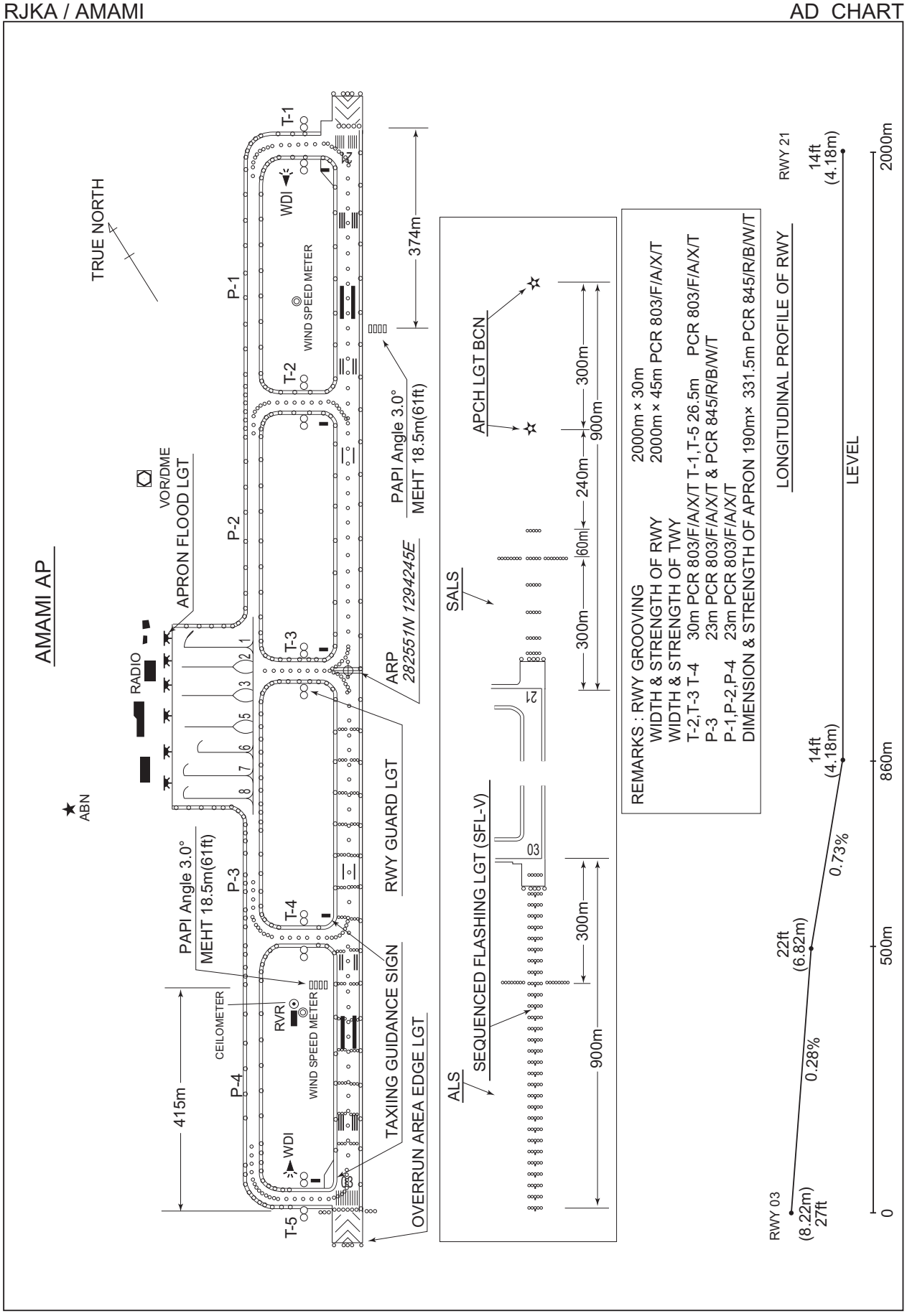
RJKA / AMAMI AD CHART

CHANGE : WIND SPEED METER, CEILOMETER added.

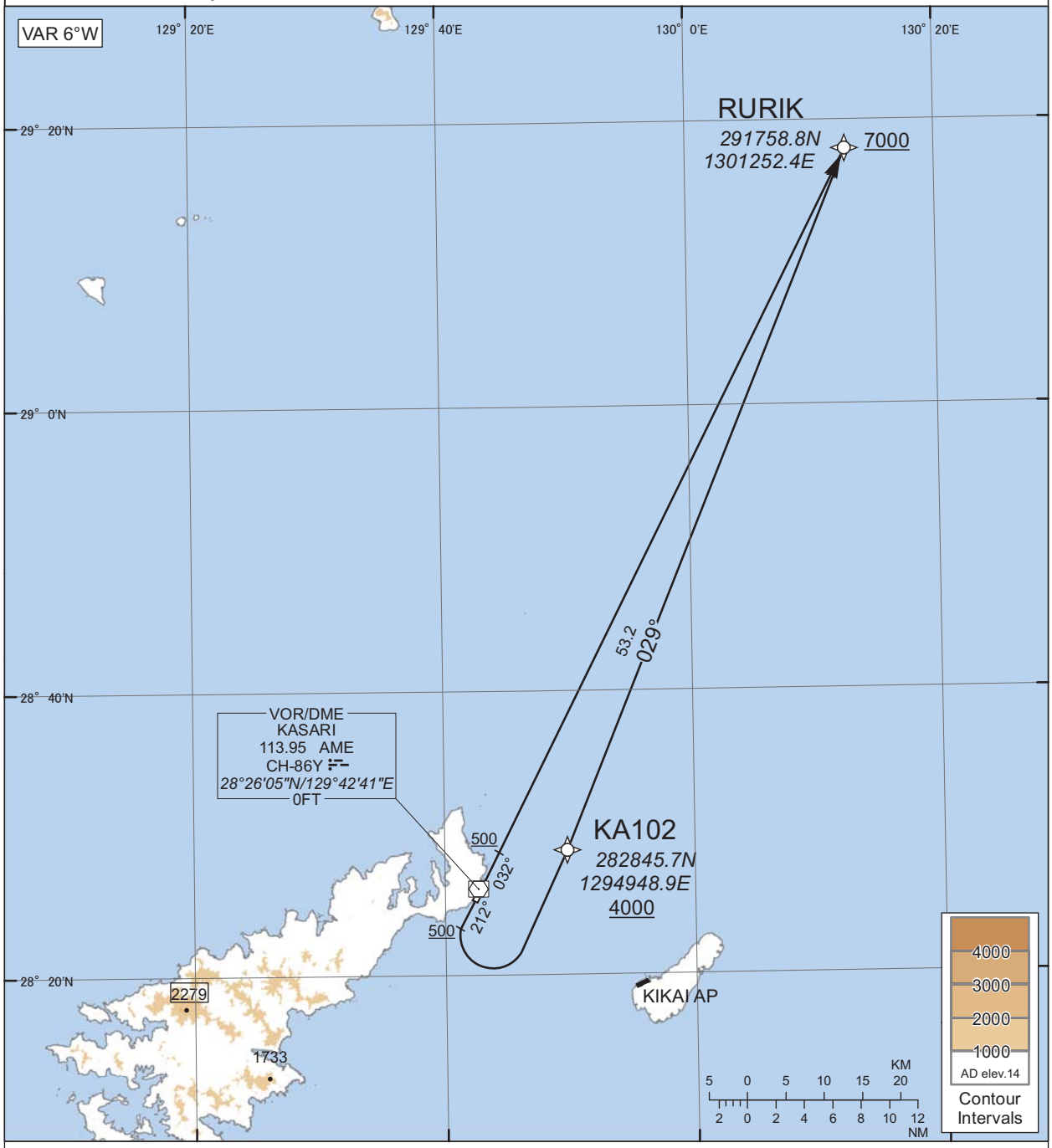


STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI — RNAV SID

RURIK THREE DEPARTURE	RNP1

Note GNSS required.



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 RWY03 : 3.5% climb gradient required up to 500FT.
OBST ALT 197FT located at 1.1NM 015° FM end of RWY03.
RWY21 : 5.0% climb gradient required up to 500FT.

CHANGE : Navigation Specification(Basic RNP1→RNP1).

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

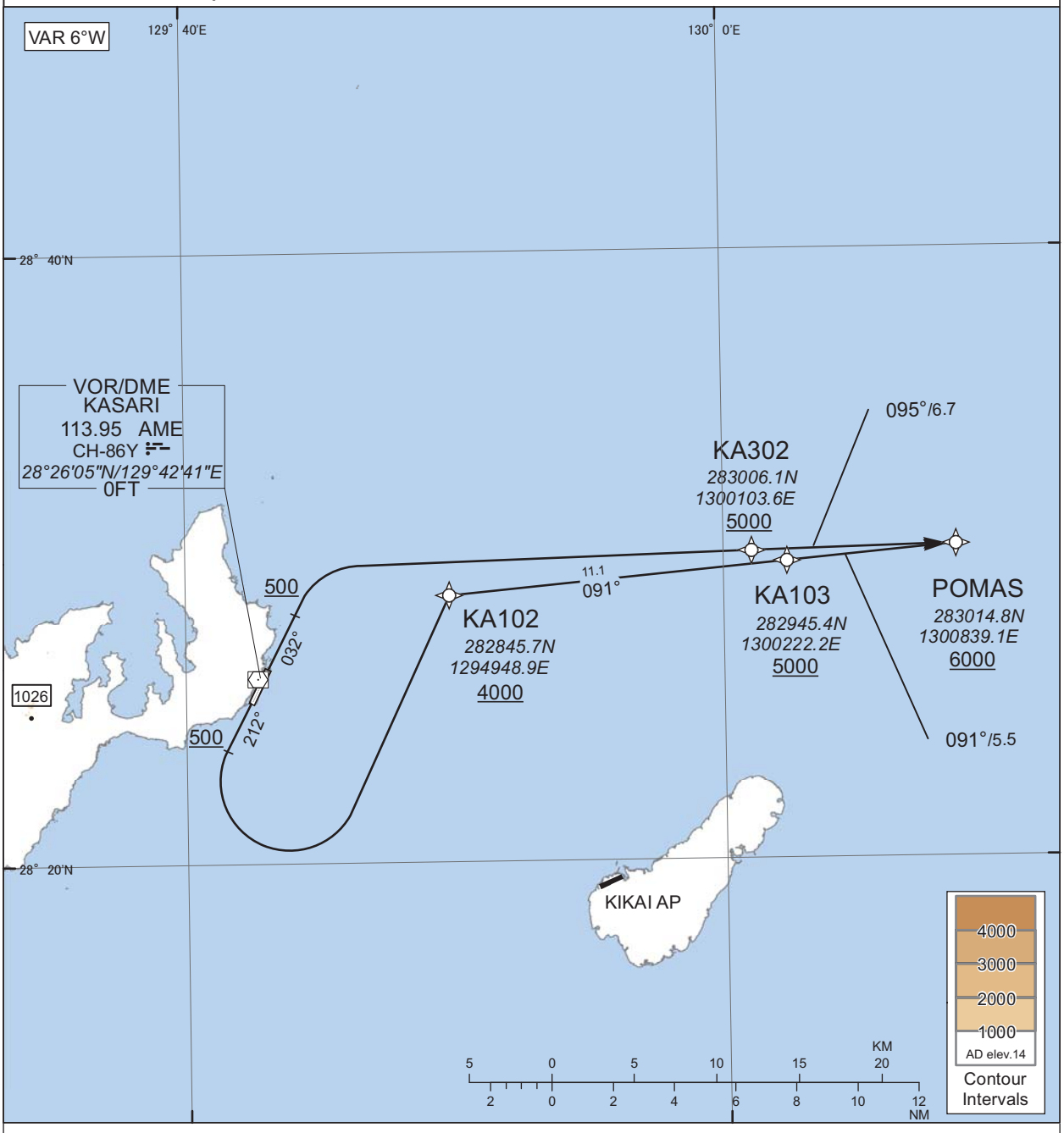
CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI — RNAV SID

USAGI EAST THREE DEPARTURE	RNP1

Note GNSS required.



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 RWY03 : 3.5% climb gradient required up to 500FT.
OBST ALT 197FT located at 1.1NM 015° FM end of RWY03.
RWY21 : 5.0% climb gradient required up to 500FT.

CHANGE : Navigation Specification(Basic RNP1→RNP1).

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	-	-	RNP1
002	DF	KA302	-	-	-6.4	-	R	+5000	-	-	RNP1
003	TF	POMAS	-	095 (088.7)	-6.4	6.7	-	+6000	-	-	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	-	-	RNP1
002	DF	KA102	-	-	-6.4	-	L	+4000	-	-	RNP1
003	TF	KA103	-	091 (084.8)	-6.4	11.1	-	+5000	-	-	RNP1
004	TF	POMAS	-	091 (084.9)	-6.4	5.5	-	+6000	-	-	RNP1

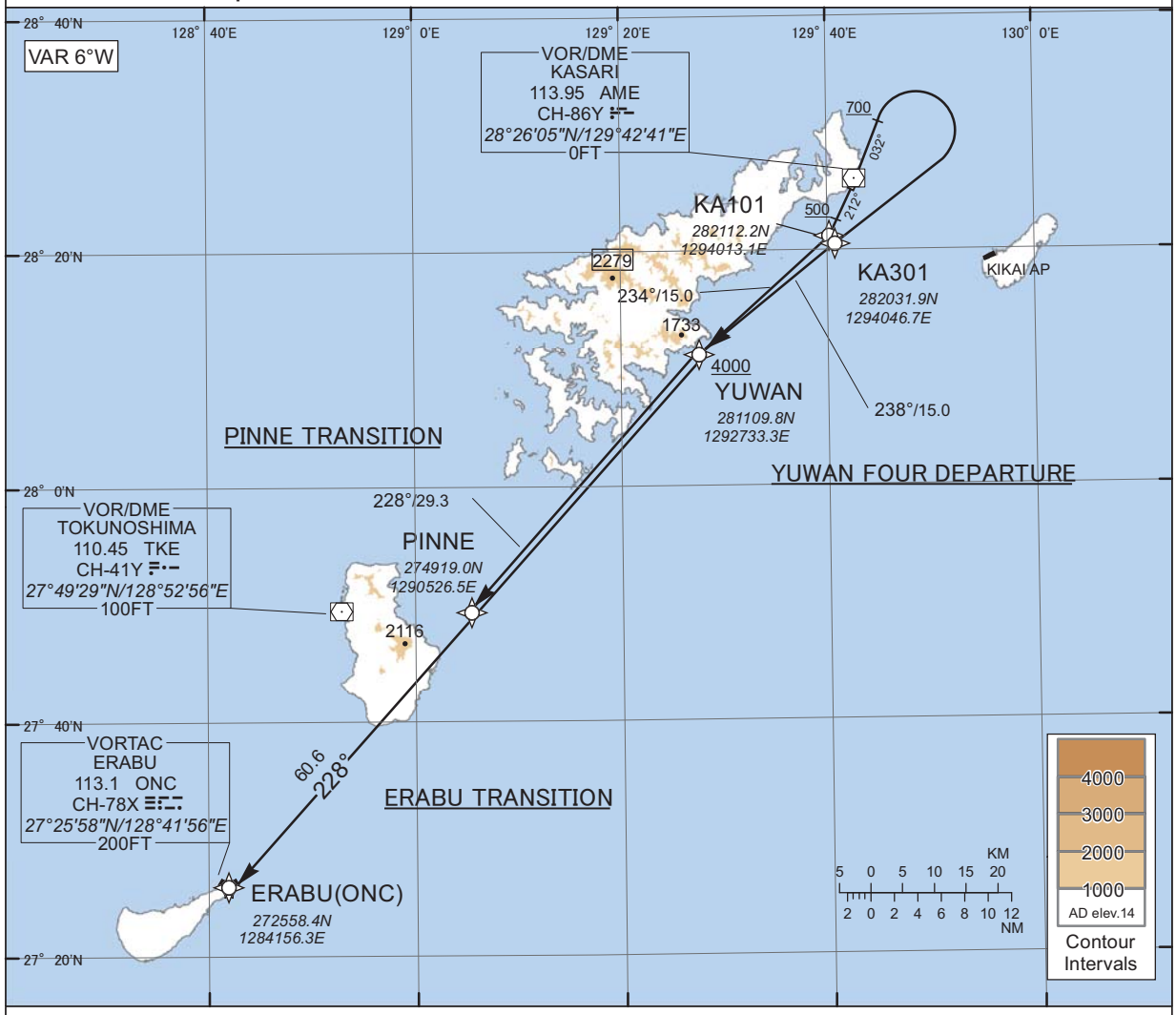
CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI — RNAV SID and TRANSITION

YUWAN FOUR DEPARTURE PINNE TRANSITION ERABU TRANSITION	RNP1

Note GNSS required.



YUWAN FOUR DEPARTURE

RWY03 : Climb on HDG032° at or above 700FT, turn right direct to KA301, to YUWAN at or above 4000FT.
RWY21 : Climb on HDG212° at or above 500FT, direct to KA101, to YUWAN at or above 4000FT.

Note RWY03 : 3.5% climb gradient required up to 700FT.
OBST ALT 197FT located at 1.1NM 015° FM end of RWY03.

PINNE TRANSITION

From YUWAN at or above 4000FT, to PINNE.

ERABU TRANSITION

From YUWAN at or above 4000FT, to ONC.

CHANGE : Navigation Specification(Basic RNP1→RNP1).

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	-	-	RNP1
002	DF	KA301	-	-	-6.4	-	R	-	-	-	RNP1
003	TF	YUWAN	-	238 (231.2)	-6.4	15.0	-	+4000	-	-	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	-	-	RNP1
002	DF	KA101	-	-	-6.4	-	-	-	-	-	RNP1
003	TF	YUWAN	-	234 (228.1)	-6.4	15.0	-	+4000	-	-	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	-	-	RNP1
002	TF	PINNE	-	228 (221.9)	-6.4	29.3	-	-	-	-	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	-	-	RNP1
002	TF	ONC	-	228 (221.9)	-6.4	60.6	-	-	-	-	RNP1

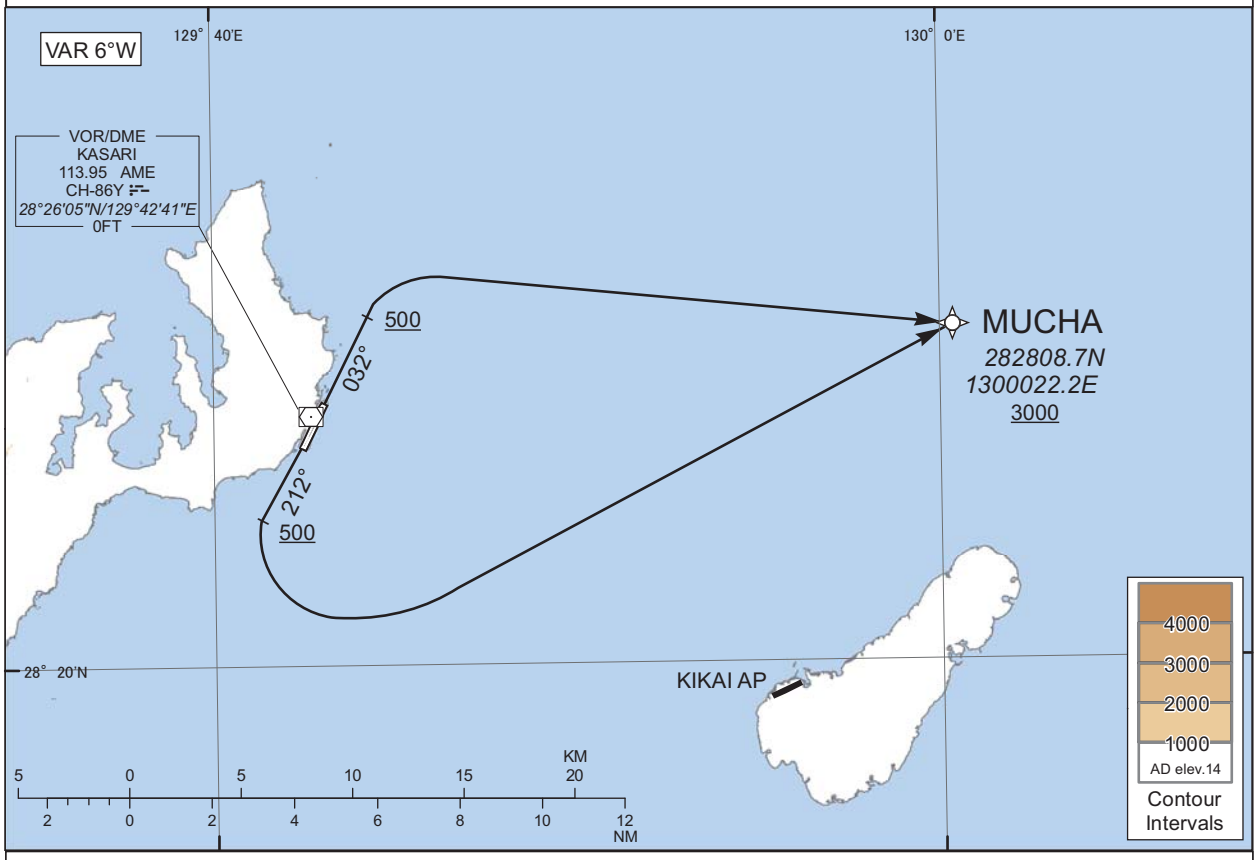
CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI — RNAV SID

MUCHA TWO DEPARTURE	RNP1

Note GNSS required.



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.

Note RWY03 : 3.5% climb gradient required up to 500FT.
OBST ALT 197FT located at 1.1NM 015° FM end of RWY03.

CHANGE : Navigation Specification(Basic RNP1→RNP1).

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	-	-	RNP1
002	DF	MUCHA	-	-	-6.4	-	R	+3000	-	-	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	-	-	RNP1
002	DF	MUCHA	-	-	-6.4	-	L	+3000	-	-	RNP1

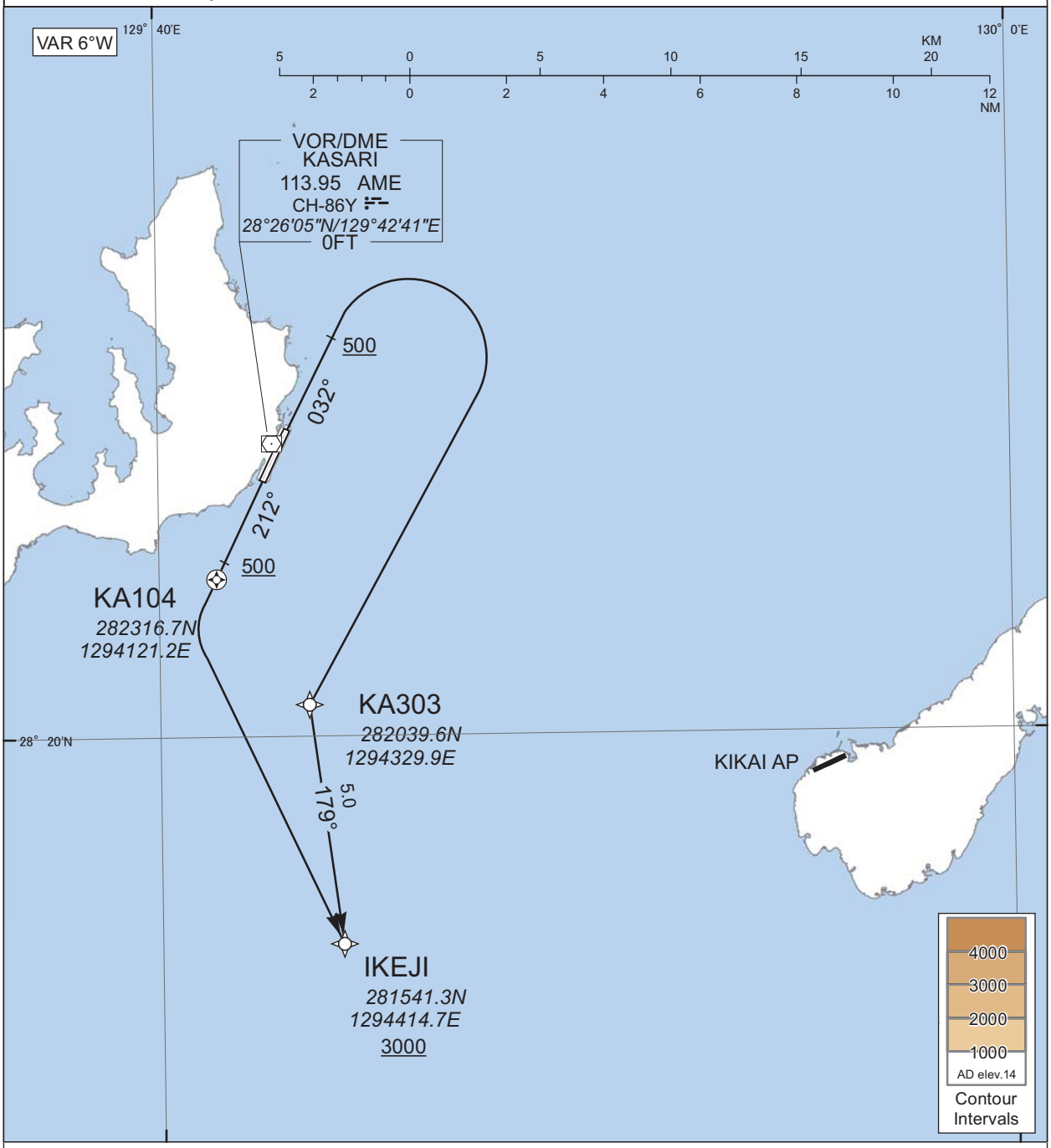
STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

RNAV SID

IKEJI ONE DEPARTURE	RNP1

Note GNSS required.



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 : Navigation Specification(Basic RNP1→RNP1).

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	-	-	RNP1
002	DF	KA303	-	-	-6.4	-	R	-	-	-	RNP1
003	TF	IKEJI	-	179 (172.5)	-6.4	5.0	-	+3000	-	-	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	-	-	RNP1
002	DF	KA104	Y	-	-6.4	-	-	-	-	-	RNP1
003	DF	IKEJI	-	-	-6.4	-	L	+3000	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI SID

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

PINNE SIX DEPARTURE

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

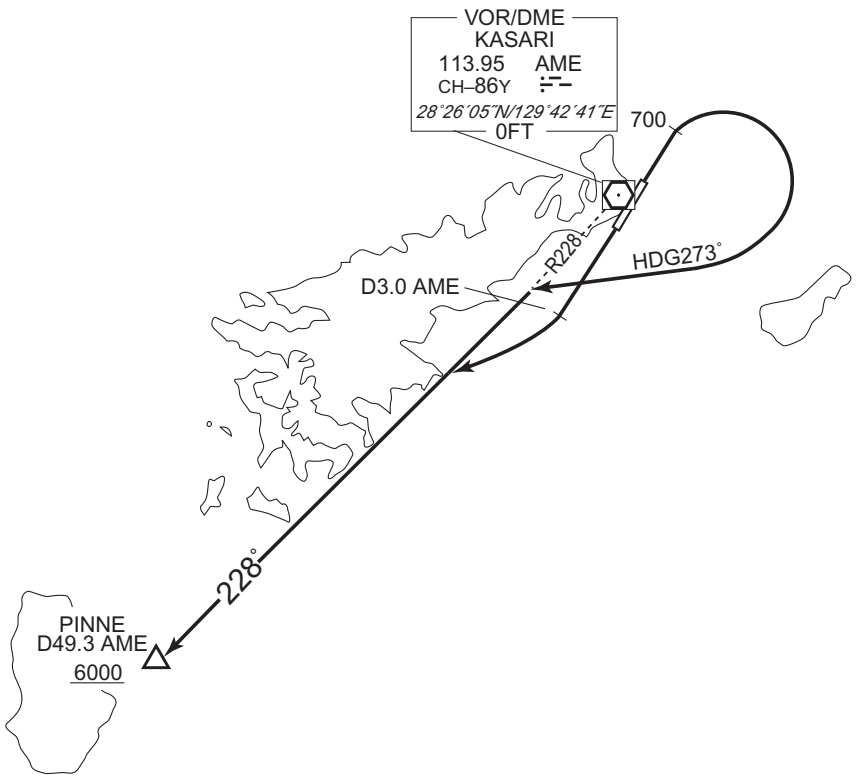
RWY 21 : Climb RWY HDG to AME 3.0DME, turn right,...

... 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.



STANDARD DEPARTURE CHART -INSTRUMENT

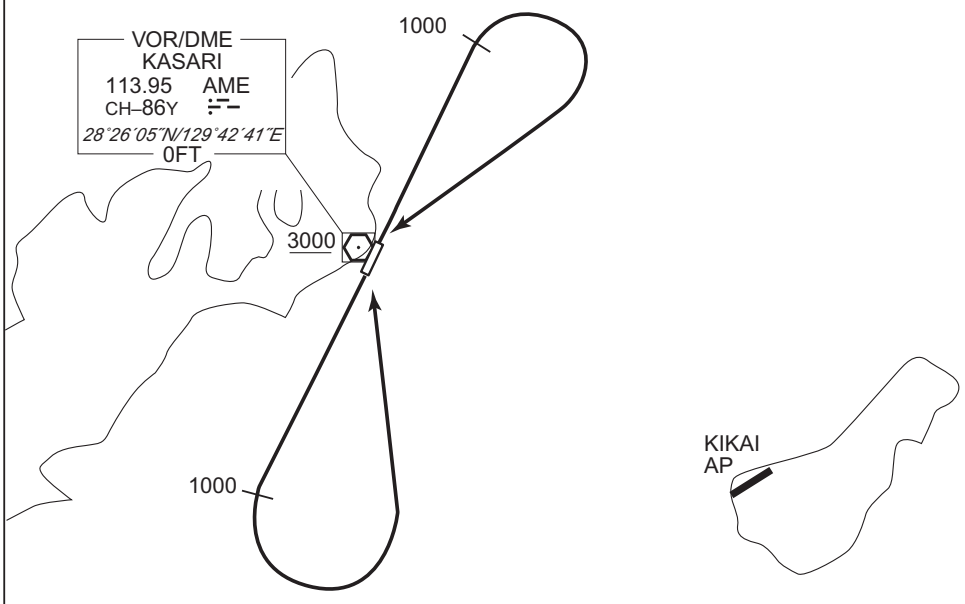
RJKA / AMAMI SID

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.



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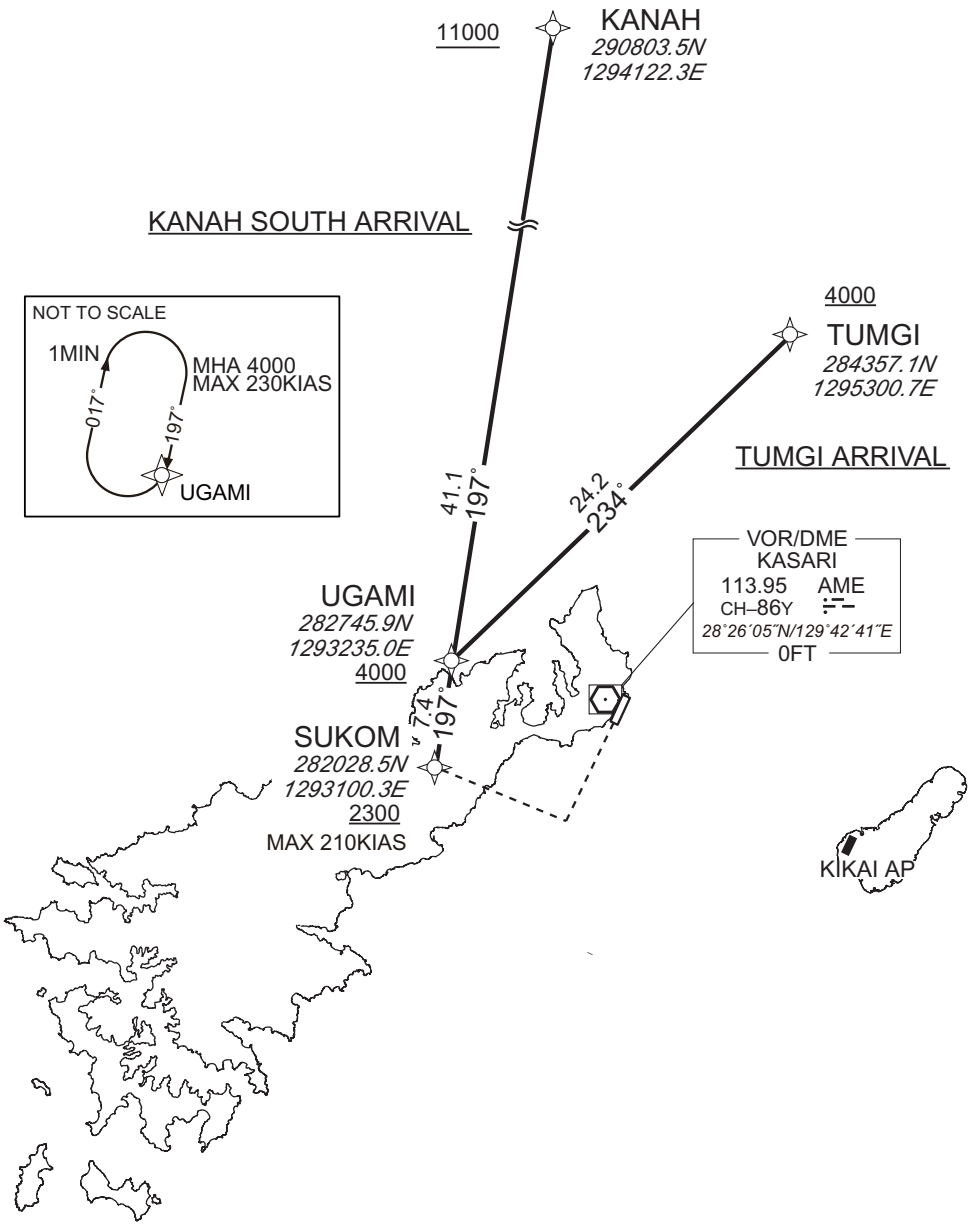
STANDARD ARRIVAL CHART-INSTRUMENT

RJKA / AMAMI RNAV STAR RWY03

KANAH SOUTH ARRIVAL / TUMGI ARRIVAL	RNP1

Note GNSS required.

VAR 6˚W



CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD ARRIVAL CHART-INSTRUMENT

RJKA / AMAMI RNAV STAR RWY03

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

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	-	-	RNP1
002	TF	UGAMI	-	197 (190.9)	-6.3	41.1	-	+4000	-	-	RNP1
003	TF	SUKOM	-	197 (190.8)	-6.3	7.4	-	+2300	-210	-	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	-	-	RNP1
002	TF	UGAMI	-	234 (228.0)	-6.3	24.2	-	+4000	-	-	RNP1
003	TF	SUKOM	-	197 (190.8)	-6.3	7.4	-	+2300	-210	-	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)	RNP1

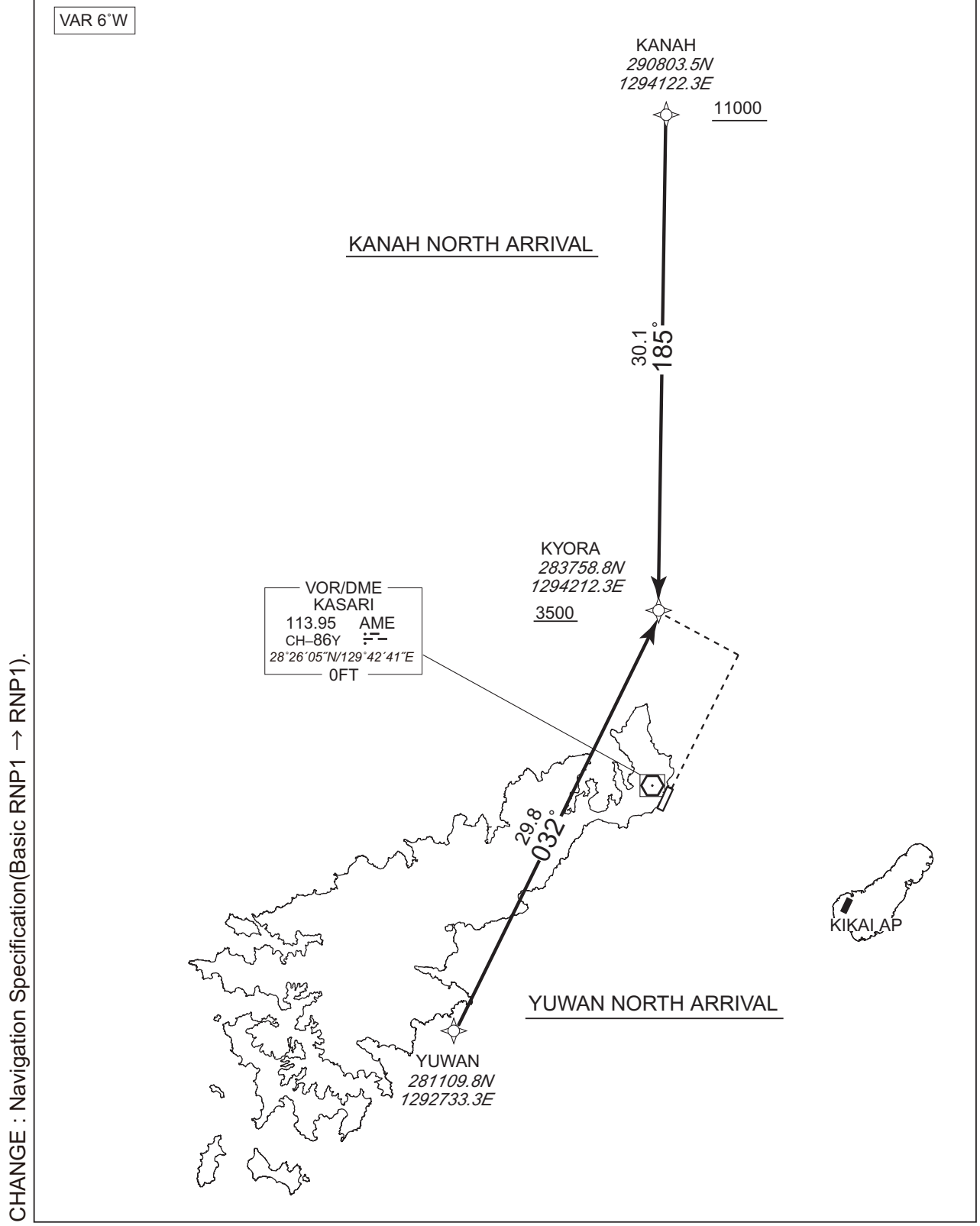
STANDARD ARRIVAL CHART-INSTRUMENT

RJKA / AMAMI

RNAV STAR RWY21

KANAH NORTH ARRIVAL YUWAN NORTH ARRIVAL	RNP1

Note GNSS required.



CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD ARRIVAL CHART-INSTRUMENT

RJKA / AMAMI RNAV STAR RWY21

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

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	-	-	RNP1
002	TF	KYORA	-	185 (178.6)	-6.2	30.1	-	+3500	-	-	RNP1

YUWAN NORTH ARRIVAL

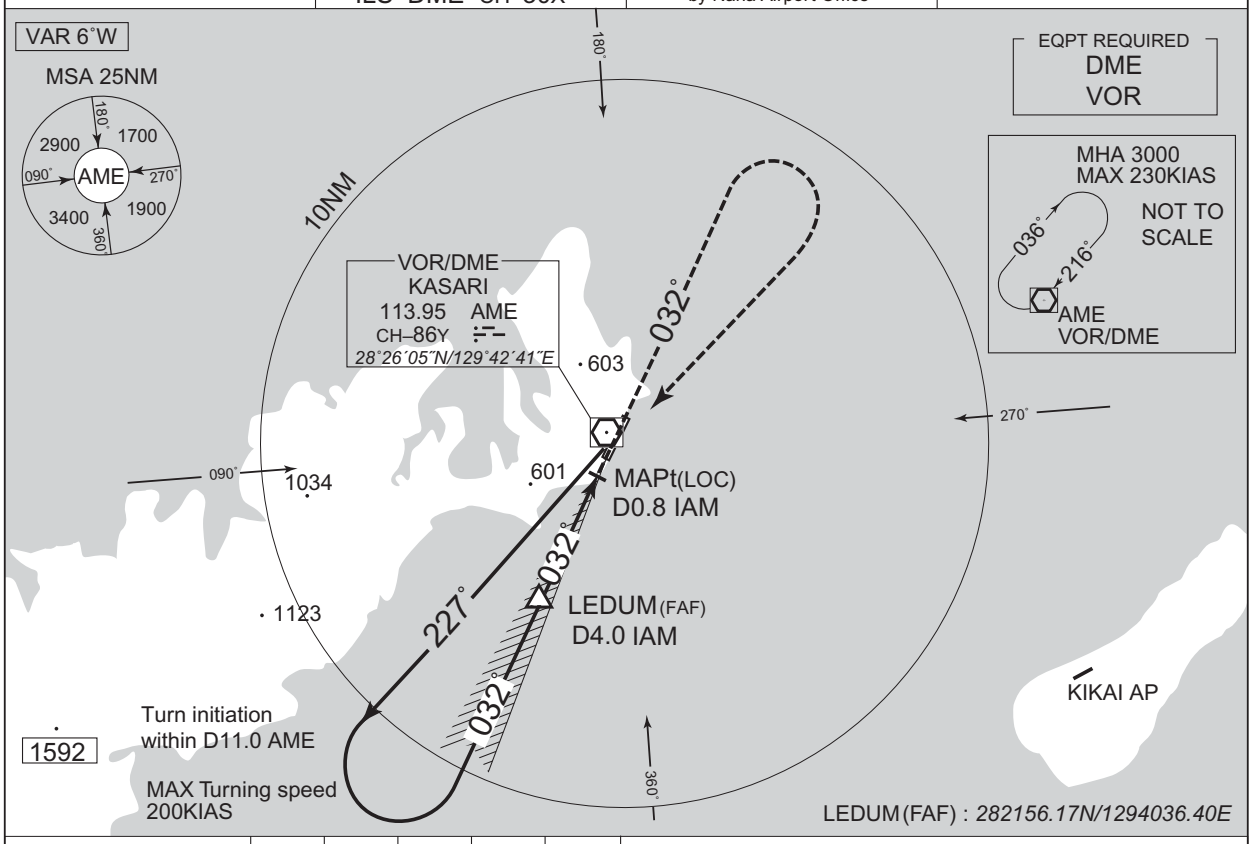
From YUWAN, to KYORA at or above 3500FT.

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

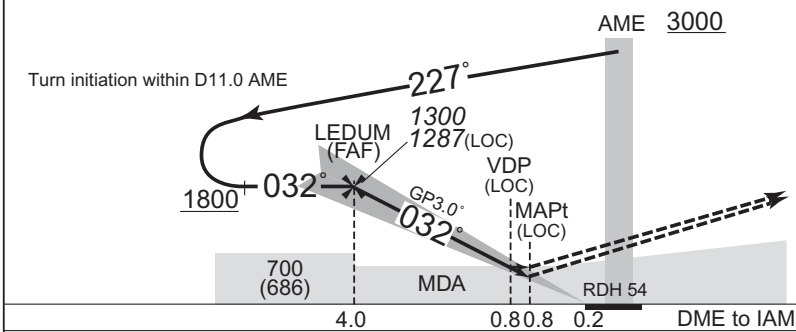
INSTRUMENT APPROACH CHART

RJKA / AMAMI — ILS Z or LOC Z RWY03

NAHA APP	ILS – LOC	AMAMI RADIO	RADAR AVBL
124.95 – 280.1	109.3 IAM ILS–GP 332.0 ILS–DME CH–30X	118.15 - 126.2 AFIS provided by Naha Airport Office	



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



MISSED APPROACH
Climb on HDG032˚ to 3000FT, turn right, direct to AME VOR/DME and hold.
Contact NAHA APP.

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						
C						2400
D				1200	580 (566)	3200

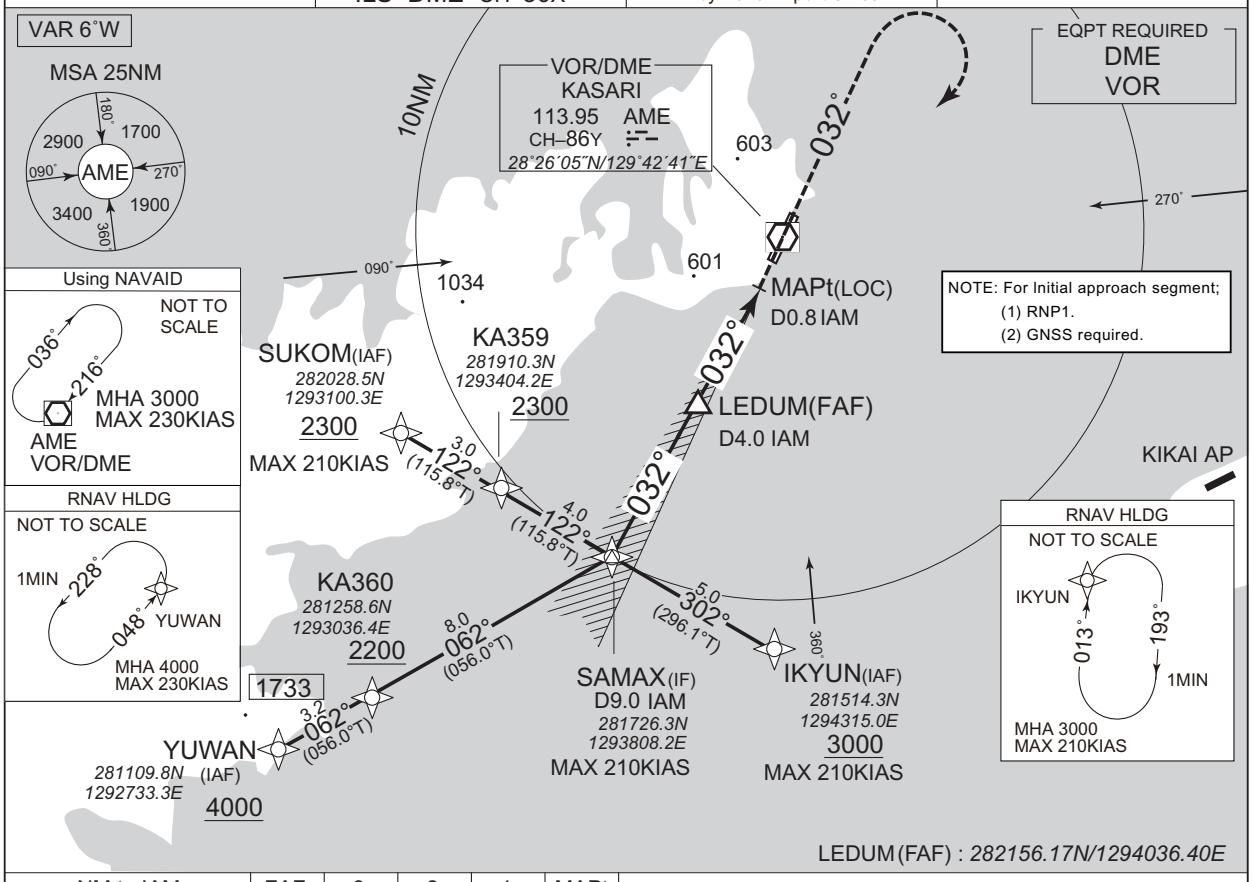
Circling to EAST side of RWY only.

CHANGE : Description of RADAR Service. Missed APCH PROC.

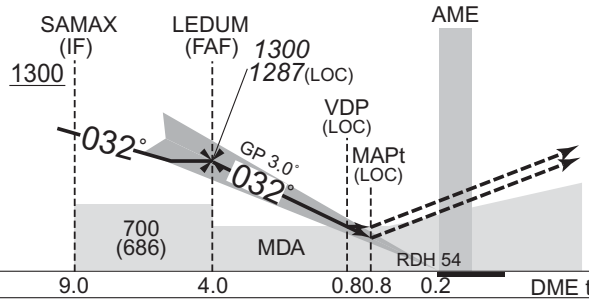
INSTRUMENT APPROACH CHART

RJKA / AMAMI — ILS Y or LOC Y RWY03

NAHA APP	ILS - LOC	AMAMI RADIO	RADAR AVBL
124.95 – 280.1	109.3 IAM ILS–GP 332.0 ILS–DME CH–30X	118.15 - 126.2 AFIS provided by Naha Airport Office	



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



MISSED APPROACH
Climb on HDG032˚ to 3000FT, turn right, direct to AME VOR/DME and hold.
Contact NAHA APP.

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						
C						2400
D				1200	580 (566)	3200

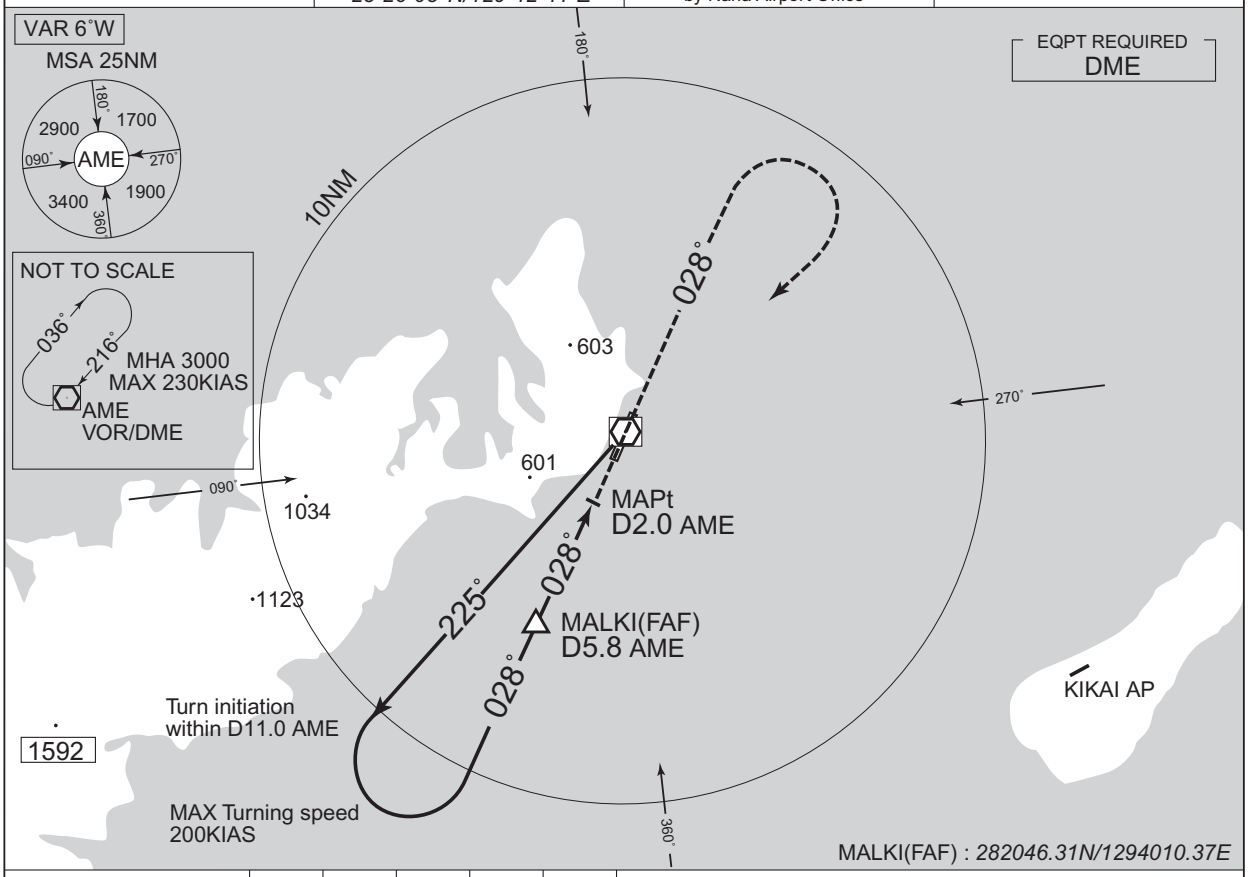
Circling to EAST side of RWY only.

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

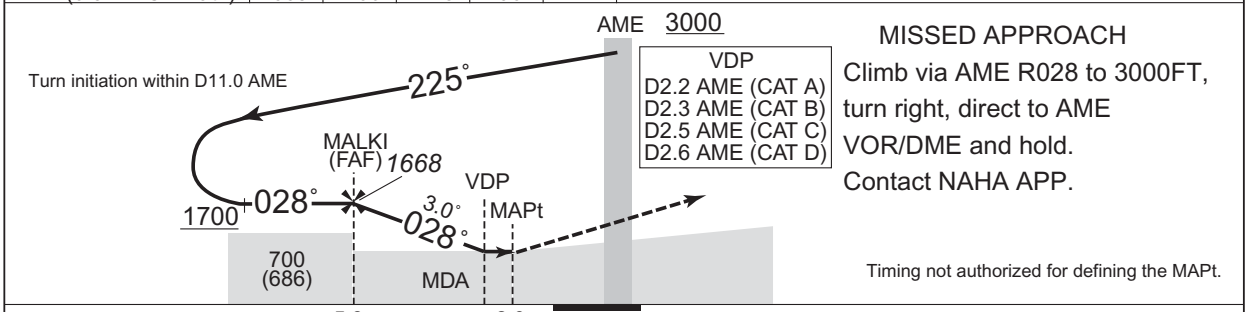
INSTRUMENT APPROACH CHART

RJKA / AMAMI — VOR RWY03

NAHA APP	KASARI VOR/DME	AMAMI RADIO	RADAR AVBL
124.95 – 280.1	113.95 AME CH–86Y *28˚26´05˝N/129˚42´41˝E*	118.15 - 126.2 AFIS provided by Naha Airport Office	



NM to AME	FAF	5	4	3	MAPt
ALT (3.0˚ APCH Path)	1668	1433	1115	796	–



VDP
D2.2 AME (CAT A)
D2.3 AME (CAT B)
D2.5 AME (CAT C)
D2.6 AME (CAT D)

MISSED APPROACH
Climb via AME R028 to 3000FT,
turn right, direct to AME
VOR/DME and hold.
Contact NAHA APP.

Timing not authorized for defining the MAPt.

Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 27 AD elev. 14

CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	500 (486)	1000	500 (486)	1600
B	550 (536)	1200	550 (536)	
C	600 (586)		600 (586)	2400
D	640 (626)	1600	640 (626)	3200

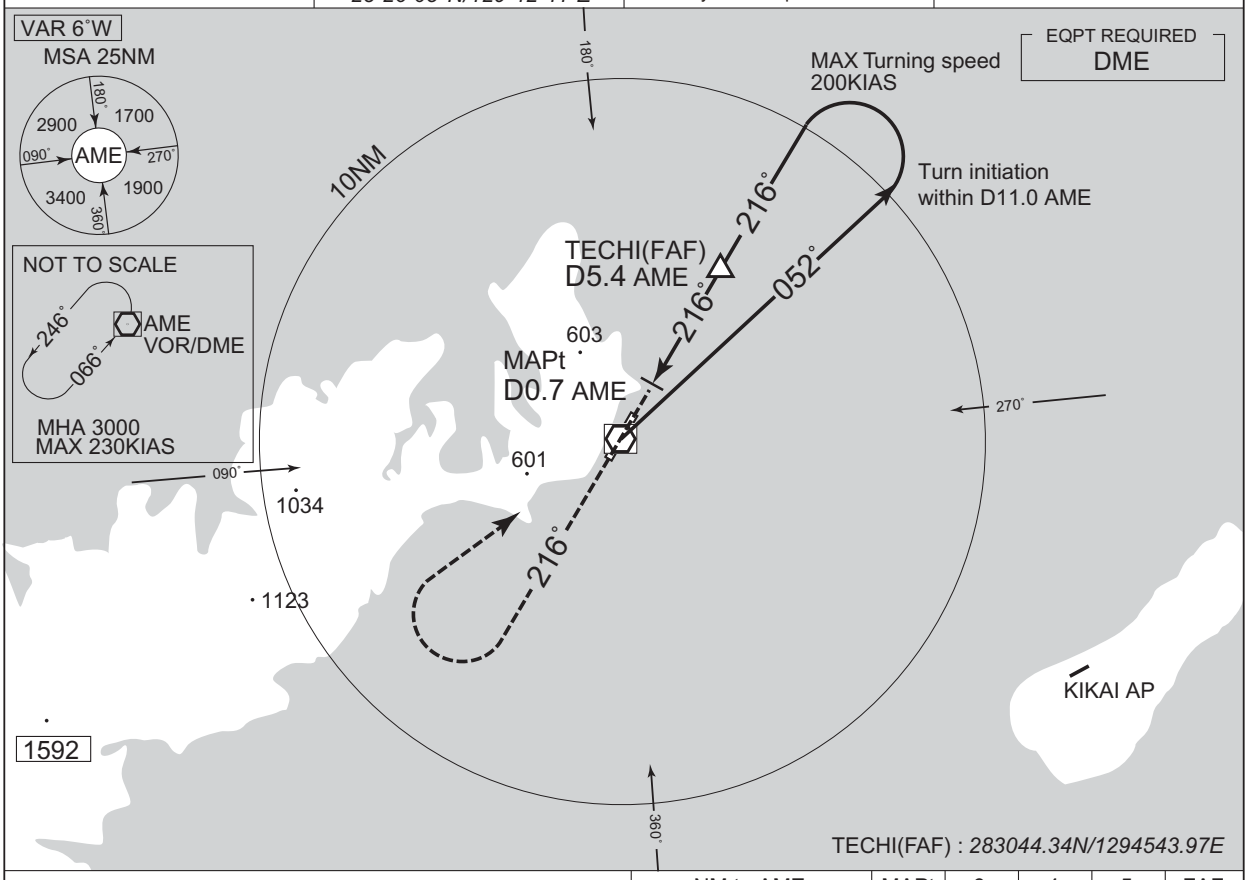
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to EAST side of RWY only.

CHANGE : Description of RADAR Service. Missed APCH PROC.

INSTRUMENT APPROACH CHART

RJKA / AMAMI VOR RWY21

NAHA APP	KASARI VOR/DME	AMAMI RADIO	RADAR AVBL
124.95 – 280.1	113.95 AME CH–86Y *28˚26´05˝N/129˚42´41˝E*	118.15 - 126.2 AFIS provided by Naha Airport Office	

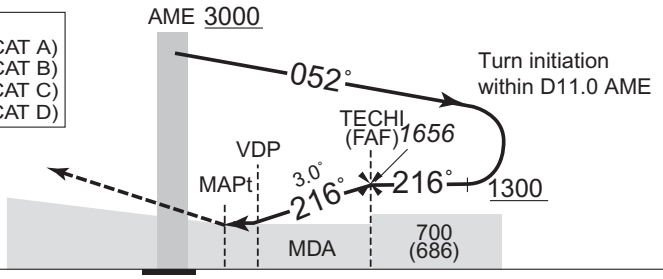


	NM to AME	MAPt	3	4	5	FAF
	ALT (3.0˚ APCH Path)	–	904	1222	1541	1656

MISSED APPROACH
Climb via AME R216 to 3000FT,
turn right, direct to AME
VOR/DME and hold.
Contact NAHA APP.

Timing not authorized for defining the MAPt.

VDP
D1.9 AME (CAT A)
D2.0 AME (CAT B)
D2.2 AME (CAT C)
D2.3 AME (CAT D)



DME to AME	0.4	0.7	5.4
NM to THR	0	0.3	5.0

Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 14 AD elev. 14

CAT			CIRCLING	
	MDA(H)	CMV	MDA(H)	VIS
A	530 (516)	1500	530 (516)	1600
B	580 (566)		580 (566)	
C	630 (616)	1800	630 (616)	2400
D	660 (646)	2000	660 (646)	3200

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

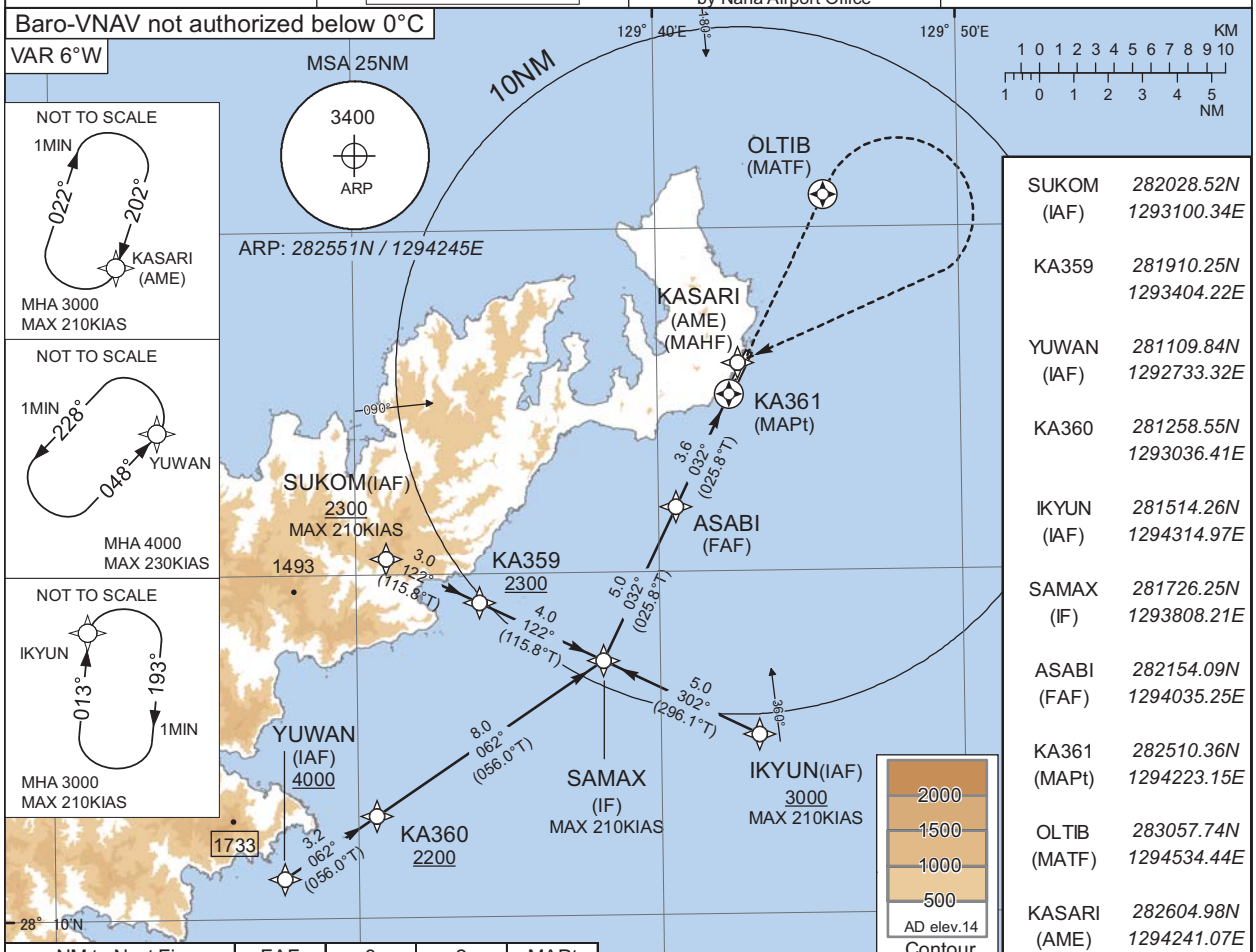
CHANGE : Description of RADAR Service. Missed APCH PROC.

INSTRUMENT APPROACH CHART

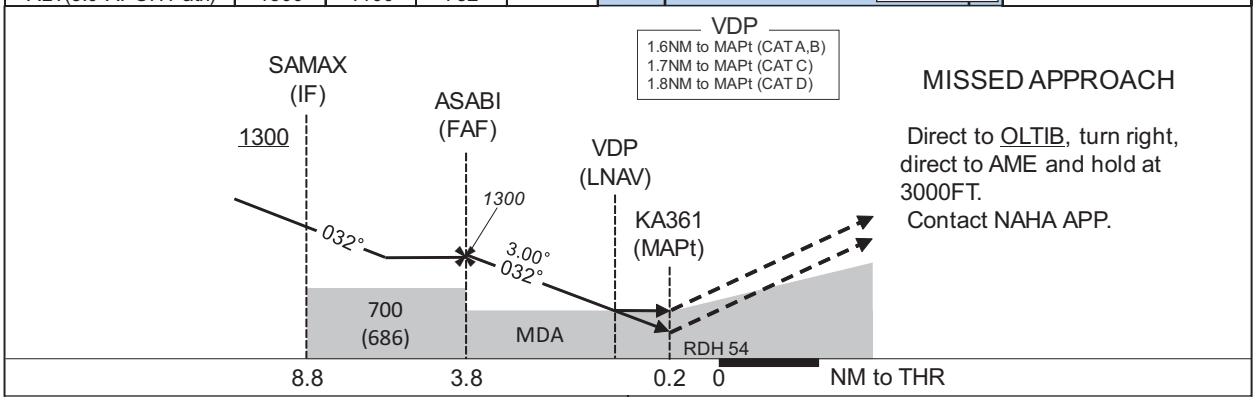
RJKA / AMAMI

RNP Z RWY03

NAHA APP	RNP APCH	AMAMI RADIO	RADAR AVBL
124.95 – 280.1	MSAS CH68150 M03A	118.15 - 126.2 AFIS provided by Naha Airport Office	



NM to Next Fix	FAF	3	2	MAPt
ALT(3.0°APCH Path)	1300	1100	782	-



MISSED APPROACH

Direct to OLTIB, turn right, direct to AME and hold at 3000FT.
Contact NAHA APP.

Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 27		AD elev. 14					
CAT	LPV		LNAV/VNAV		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				1200		1200		
C	282(255)		640(613)		640(626)		640(626)	2400
D	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 : Description of RADAR Service. Missed APCH 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

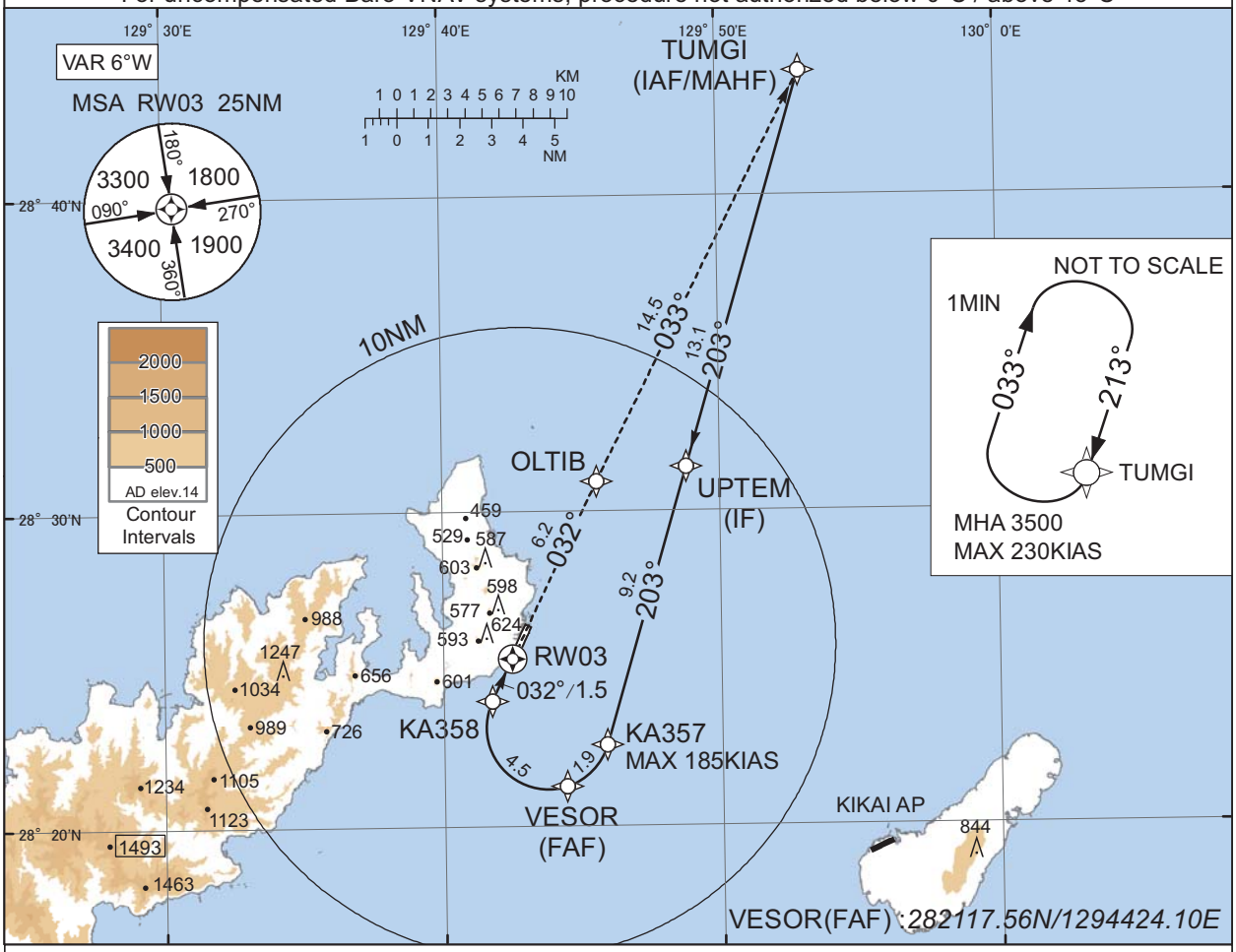
CHANGE : New PROC.

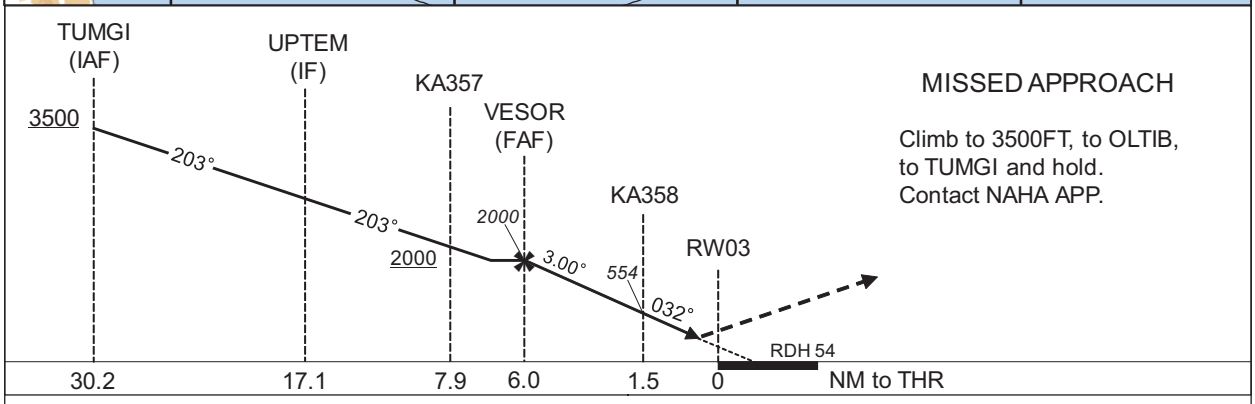
INSTRUMENT APPROACH CHART

RJKA / AMAMI — RNP Y RWY03(AR)

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

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





Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 27		AD elev. 14	
CAT	RNP 0.13		RNP 0.30	
	DA(H)	RVR/CMV	DA(H)	RVR/CMV
A	-	-	-	-
B				
C	283(256)	800	381(354)	1000
D	292(265)	1200	391(364)	1400

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

Authorization Required

CHANGE : Description of RADAR Service. Missed APCH PROC.

INSTRUMENT APPROACH CHART

RJKA / AMAMI RNP Y RWY03(AR)

CHANGE : PROC renamed. PROC course. UPTEM, KA357, VESOR, KA358, OLTIB established. YANGO, KA353, JOUGO, KA351, HABUH abolished. RNP Value FM UPTEM to VESOR. RF Arc Center Identifier (KARF2 added, KARF1 deleted). Waypoint Coordinates (RW03). 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	UPTEM	-	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

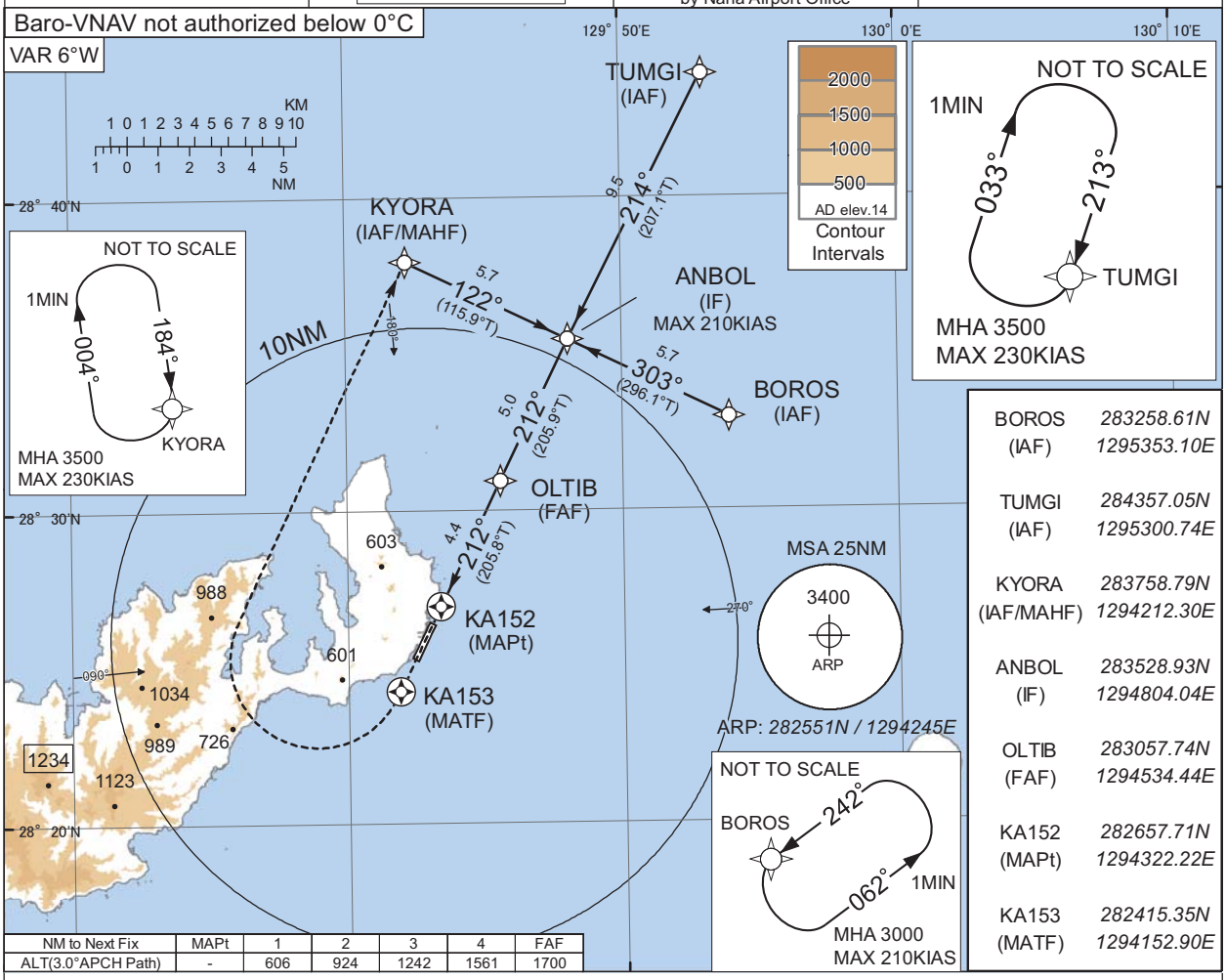
Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
TUMGI	*284357.05N / 1295300.74E*	KARF2	*282309.49N / 1294344.25E*
UPTEM	*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*		

INSTRUMENT APPROACH CHART

RJKA / AMAMI — RNP Z RWY21

NAHA APP	RNP APCH	AMAMI RADIO	RADAR AVBL
124.95 – 280.1	MSAS CH43438 M21A	118.15 - 126.2 AFIS provided by Naha Airport Office	

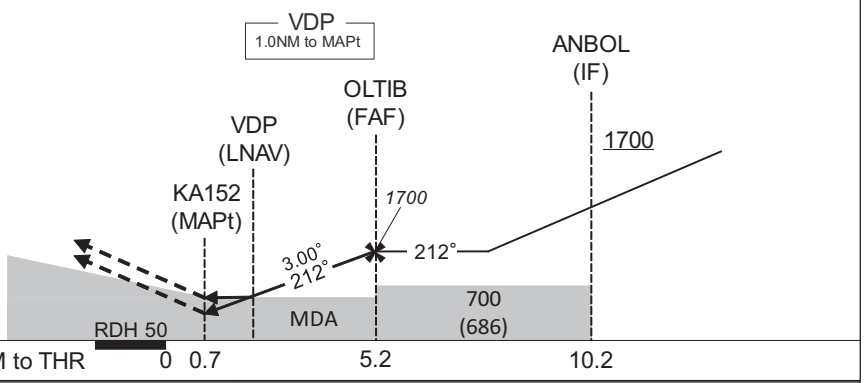


BOROS (IAF)	283258.61N 1295353.10E
TUMGI (IAF)	284357.05N 1295300.74E
KYORA (IAF/MAHF)	283758.79N 1294212.30E
ANBOL (IF)	283528.93N 1294804.04E
OLTIB (FAF)	283057.74N 1294534.44E
KA152 (MAPt)	282657.71N 1294322.22E
KA153 (MATF)	282415.35N 1294152.90E

NM to Next Fix	MAPt	1	2	3	4	FAF
ALT(3.0°APCH Path)	-	606	924	1242	1561	1700

MISSED APPROACH

Direct to KA153, turn right, direct to KYORA and hold at 3500FT.
Contact NAHA APP.



Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 14		AD elev. 14					
CAT	LPV		LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	CMV	DA(H)	CMV	MDA(H)	CMV	MDA(H)	VIS
A	267(253)	1200	600(586)	1500	600(586)	1500	600(586)	1600
B	277(263)	1300						
C	287(273)	1400		1800		1800		2400
D	297(283)	1600		2000		2000		3200

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

CHANGE : Description of RADAR Service. Missed APCH PROC.

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

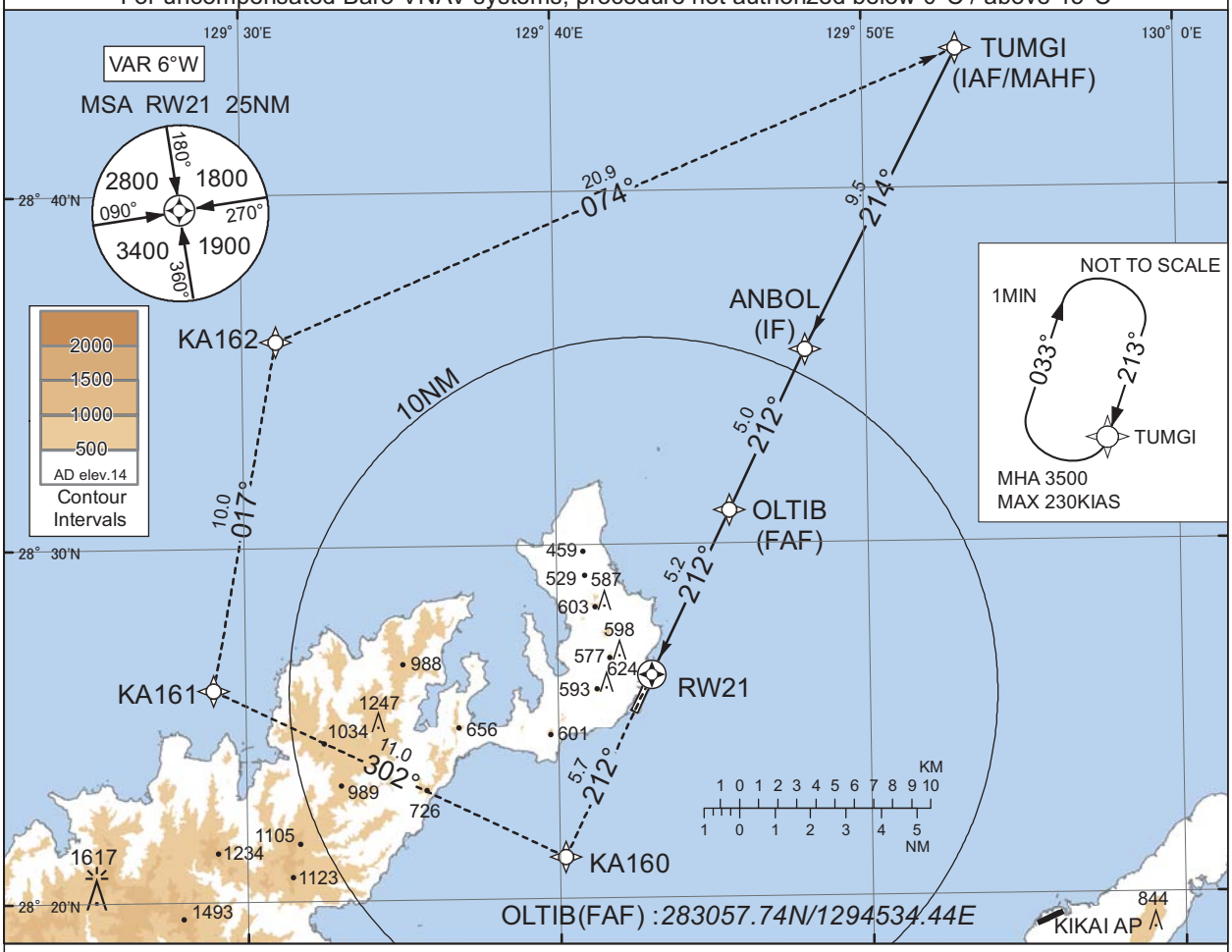
CHANGE : FAS DATA BLOCK and Required additional data established.

INSTRUMENT APPROACH CHART

RJKA / AMAMI — RNP Y RWY21(AR)

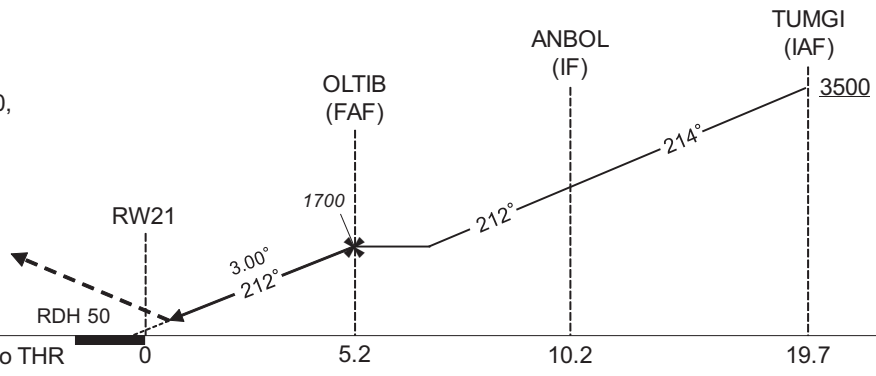
NAHA APP 124.95 - 280.1	RNP AR	AMAMI RADIO 118.15 - 126.2 AFIS provided by Naha Airport Office	RADAR AVBL

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



MISSED APPROACH

Climb to 3500FT, to KA160,
to KA161, to KA162, to
TUMGI and hold.
Contact NAHA APP.



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

CHANGE : Description of RADAR Service. Missed APCH PROC.

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

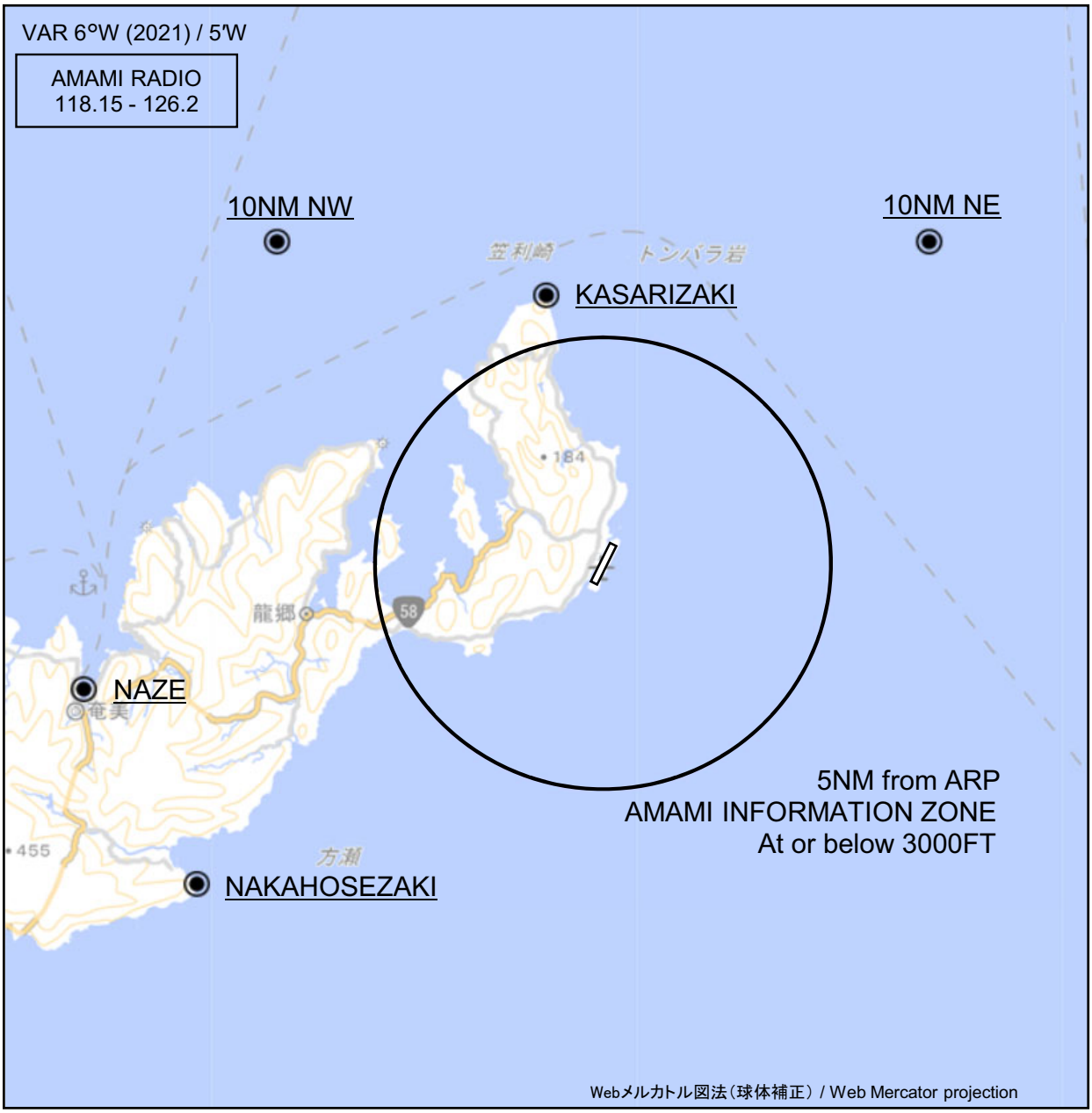
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/ RDH (°/FT)	RNP Value
001	IF	TUMGI	-	-	-6.4	-	-	+3500	-	-	-
002	TF	ANBOL	-	214 (207.1)	-6.4	9.5	-	-	-	-	1.0
003	TF	OLTIB	-	212 (205.9)	-6.4	5.0	-	1700	-	-	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*

RJKA / AMAMI Visual REP



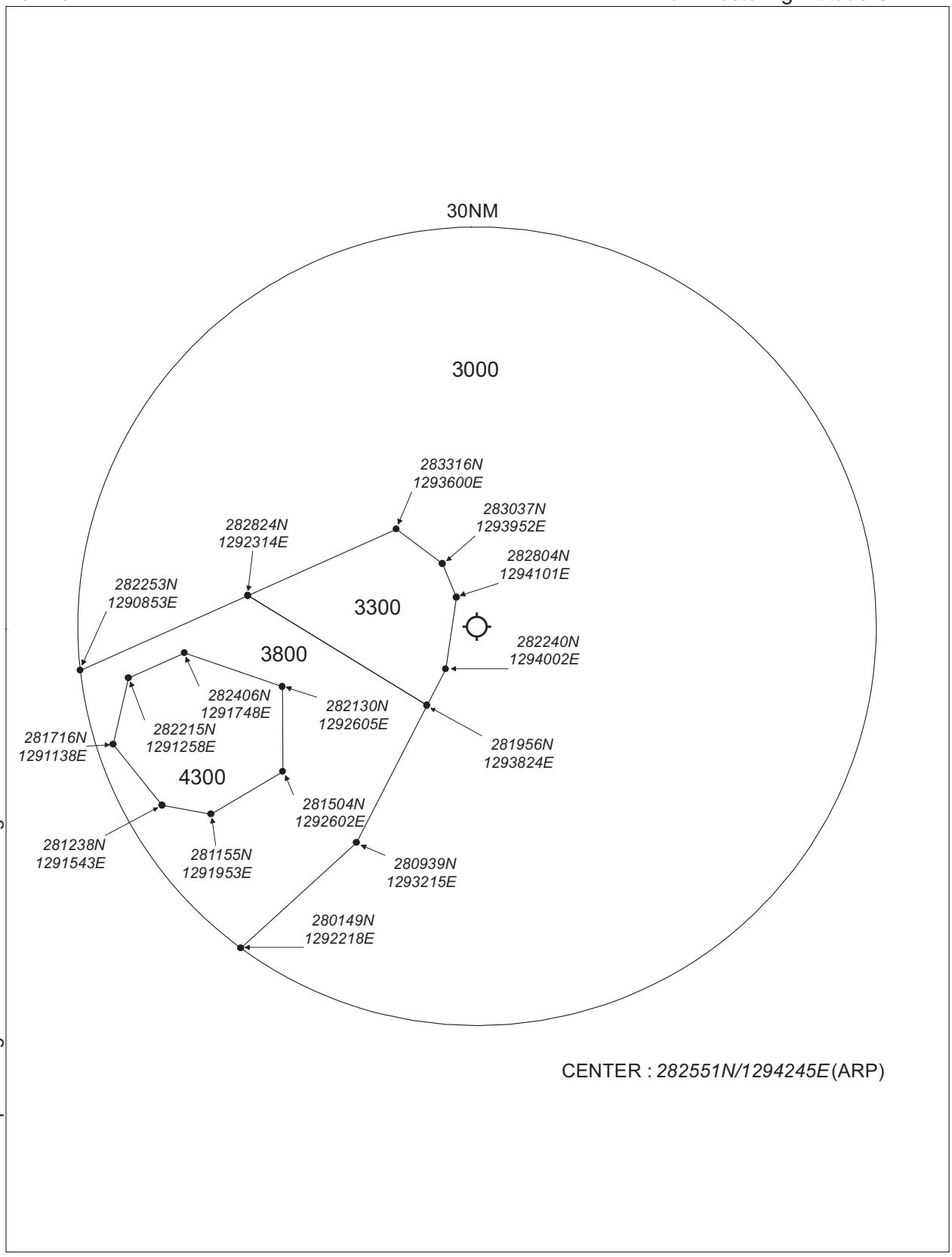
※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

CHANGE : Map updated. BRG/DIST from ARP.

Call sign	BRG / DIST from ARP	Remarks
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



CHANGE : Shape of segment. Minimum vectoring altitude.