AD 2 AERODROMES

ROKJ AD 2.1 AERODROME LOCATION INDICATOR AND NAME

ROKJ - KUMEJIMA

ROKJ AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	*262149N/1264250E* 021°/1.0km from RWY 03 THR
2	Direction and distance from (city)	
3	Elevation/ Reference temperature	22.7ft / 33°C (2004-2008)
4	Geoid undulation at AD ELEV PSN	103ft
5	MAG VAR/ Annual change	5° W(2009) / 3.3'W
6	AD Administration, address, telephone, telefax, telex, AFS, e-mail and/or Web-site addresses	OKINAWA PREF. PUBLIC AP. Kumejima Airport Administration Office 566-2,aza-kitahara,kumejima-cho,shimajiri-gun,Okinawa pref. Tel:098-985-2939 Fax:098-985-2945
7	Types of traffic permitted(IFR/VFR)	IFR/VFR
8	Remarks	Nil

ROKJ AD 2.3 OPERATIONAL HOURS

1	AD Administration	2300 - 1030
2	Customs and immigration	On request Customs: 098-862-8529 Immigration: 098-832-4185
3	Health and sanitation	Nil
4	AIS Briefing Office	Nil
5	ATS Reporting Office(ARO)	Nil
6	MET Briefing Office	H24(NAHA)
7	ATS	2300 - 1030 Remarks: AFIS provided by Naha Airport Office.
8	Fuelling	Nil
9	Handling	Ask AD administration
10	Security	Ask AD administration
11	De-icing	Nil
12	Remarks	Nil

ROKJ AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	Conveyer belt, Lift for loading, etc
2	Fuel/ oil types	Nil
3	Fuelling facilities/ capacity	Nil
4	De-icing facilities	Nil
5	Hangar space for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	Nil

ROKJ AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in Kumejima town
2	Restaurants	At Airport In Kumejima town
3	Transportation	Buses and Taxi
4	Medical facilities	Hospital 6.5km from Airport
5	Bank and Post Office	Bank in Kumejima town / Post Office in Kumejima town
6	Tourist Office	In Kumejima town
7	Remarks	Nil

ROKJ 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 Emergency medical equipments conveyance truck
3	Capability for removal of disabled aircraft	Incapable
4	Remarks	Nil

ROKJ AD 2.7 SEASONAL AVAILABILITY-CLEARING

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

ROKJ AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron surface and strength	Surface : Cement-concrete Strength : PCN 55/R/B/X/T
2	Taxiway width, surface and strength	Width : 30m Surface : Asphalt-concrete Strength : PCN 63/F/C/X/T
3	ACL and elevation	Not available
4	VOR checkpoints	Not available
5	INS checkpoints	Spot NR 1 *262151.24N 1264300.15E* 2 *262153.06N 1264300.93E* 3 *262154.88N 1264301.71E* 3' *262155.07N 1264301.18E*
6	Remarks	Nil

ROKJ 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:RWY03/21 (Marking) RWY designation, RWY CL, RWY THR, RWY middle point, Aiming point , TDZ, RWY side stripe (LGT) RCLL, REDL, RTHL, RENL, Turning point indicator LGT, TWY: (Marking) TWY CL, TWY side stripe (LGT) TWY edge LGT, TWY CL LGT
3	Stop bars	Nil
4	Remarks	(Marking) Overrun area (LGT) Apron flood LGT

ROKJ AD 2.10 AERODROME OBSTACLES

In Area2 See Obstacle data

In Area3 To be developed

ROKJ AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	NAHA
2	Hours of service MET Office outside hours	H24(NAHA)
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 NAHA
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

ROKJ AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY(M)	Strength(PCN) 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	021.17°	2000x45	PCN 63/F/C/X/T Asphalt Concrete	*262118.32N 1264236.67E* 103ft	THR ELEV:21.7ft
21	201.17°	2000x45	PCN 63/F/C/X/T Asphalt Concrete	*262218.92N 1264302.73E* 104ft	THR ELEV:18.7ft

Slope of RWY	Strip Dimensions(M)	RESA (Overrun) Dimensions (M)	Remarks
7	10	11	14
See AD2.24 AD chart	2120x150	194 x (MNM:84 MAX:186)*	Hills E and NE RWY GROOVING : 2000m×30m
	2120x150	44 x (MNM:133 MAX:157)* *For detail, ask airport administrator	

ROKJ 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

ROKJ 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	Nil	Green -	PAPI 3.0°/LEFT 403.8m 61ft	Nil	2000m 30m Coded color (White/Red) LIH	2000m 60m Coded color (White/Yellow) LIH	Red	Nil (*1)
21	Nil	Green -	PAPI 3.0°/LEFT 380m 61ft	Nil	2000m 30m Coded color (White/Red) LIH	2000m 60m Coded color (White/Yellow) LIH	Red	Nil (*1)
Remarks								
10								
Overrun area edge LGT(LEN:60m Color:Red) (*1) RWY THR ID LGT for RWY 03/21 THR (Color:White)								

ROKJ AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: *262150N*/1264307E, White/Green EV4.3sec, HO
2	LDI location and LGT Anemometer location and LGT	LDI: Nil Anemometer: RWY03 : 264m inside FM RWY03 THR, LGTD RWY21 : 286m inside FM RWY21 THR, LGTD
3	TWY edge and center line lighting	TWY edge and center line lights installed, see AD2.9
4	Secondary power supply / switch-over time	Within 15 sec: PAPI, RWY THR ID LGT, etc
5	Remarks	WDI LGT

ROKJ AD 2.16 HELICOPTER LANDING AREA

Nil

ROKJ AD 2.17 ATS AIRSPACE

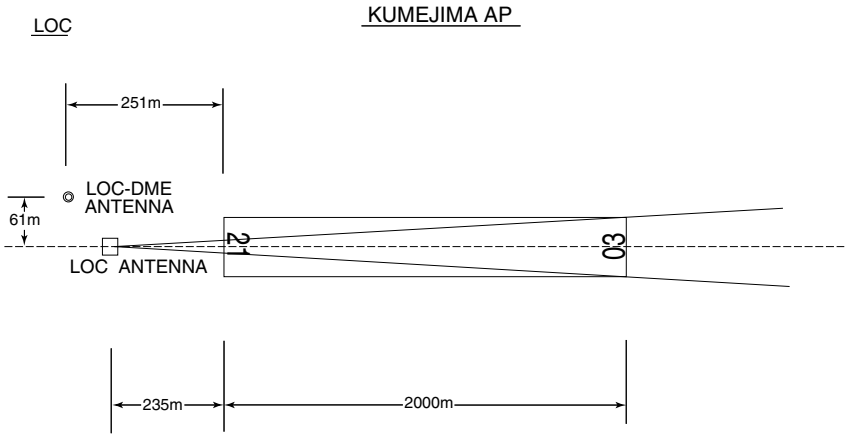
Designation and lateral limits		Vertical limits (ft)	Airspace classification	ATS unit call sign Language	Remarks
1		2	3	4	6
Kumejima Information Zone	Area within a radius of 5nm of Kumejima ARP (*2622N/12643E*), in the west side of a line connecting *262714N1264754E* and *261214N1264754E*.	------ 3000	E	Kumejima Radio En	

ROKJ AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
AFIS	Kumejima Radio	122.7MHz	2300 - 1030	Operated by Naha Airport Office. APP service provided by Naha APP.

ROKJ 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 (5°W/2008)	KXC	116.7MHz	H24	*262218.73N/ 1264319.43E*		VOR Unusable: 080°-100° beyond 25nm BLW 4,000ft. 100°-120° beyond 30nm BLW 4,000ft. 130°-150° beyond 30nm BLW 4,000ft.
TACAN	KXC	1201MHz (CH-114X)	H24	*262218.01N/ 1264317.89E*	54ft	TACAN DME Unusable: 080°-090° beyond 25nm BLW 4,000ft. 090°-110° beyond 25nm BLW 4,000ft. 110°-120° beyond 25nm BLW 4,000ft. 120°-130° beyond 30nm BLW 4,000ft. 130°-150° beyond 25nm BLW 4,000ft. 160°-170° beyond 20nm BLW 2,000ft. 170°-180° beyond 25nm BLW 2,000ft. 180°-210° beyond 30nm BLW 2,000ft. TACAN AZM Unusable: 070°-080° beyond 20nm BLW 4,000ft. 080°-160° beyond 25nm BLW 4,000ft. 160°-180° beyond 20nm BLW 2,000ft. 180°-200° beyond 10nm BLW 2,000ft. 200°-220° beyond 15nm BLW 2,000ft. 220°-230° beyond 20nm BLW 2,000ft. 230°-240° beyond 30nm BLW 3,000ft.
LOC	IKX	110.95MHz	2300 - 1030	*262226.05N/ 1264305.80E*		235m(771ft) away FM RWY 21 THR, BRG 025°(MAG).
LOC-DME	IKX	1133MHz (CH-46Y)	2300 -1030	*262225.79N/ 1264308.03E*	31ft	251m(824ft) away FM RWY 21 THR, 61m(200ft) E of RCL.



REMARKS : 1. LOC beam BRG(MAG) 025°
2. ELEV of LOC-DME 9.4m(31ft)

ROKJ AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Airport regulations

Nil

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

ROKJ AD 2.21 NOISE ABATEMENT PROCEDURES

Nil

ROKJ 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	-	400m	-	400m	-	500m
	21	A,B, C,D	-	400m	-	400m	-	500m
OTHER	03	A,B, C,D	AVBL LDG MINIMA					
	21	A,B, C,D						

2. Lost Communication procedures for arrival aircraft under radar navigational guidance

If radio communications with Naha Approach are lost for 1 minute, squawk Mode A/3 Code 7600 and :

(1) Contact Kumejima Radio.
(2) If unable, proceed in accordance with Visual Flight Rules.
(3) If unable, proceed to DORIS at the last assigned altitude or 3,000FT whichever is higher and execute instrument approach.

Note : Procedures other than above will be issued when required.

ROKJ AD 2.23 ADDITIONAL INFORMATION

Nil

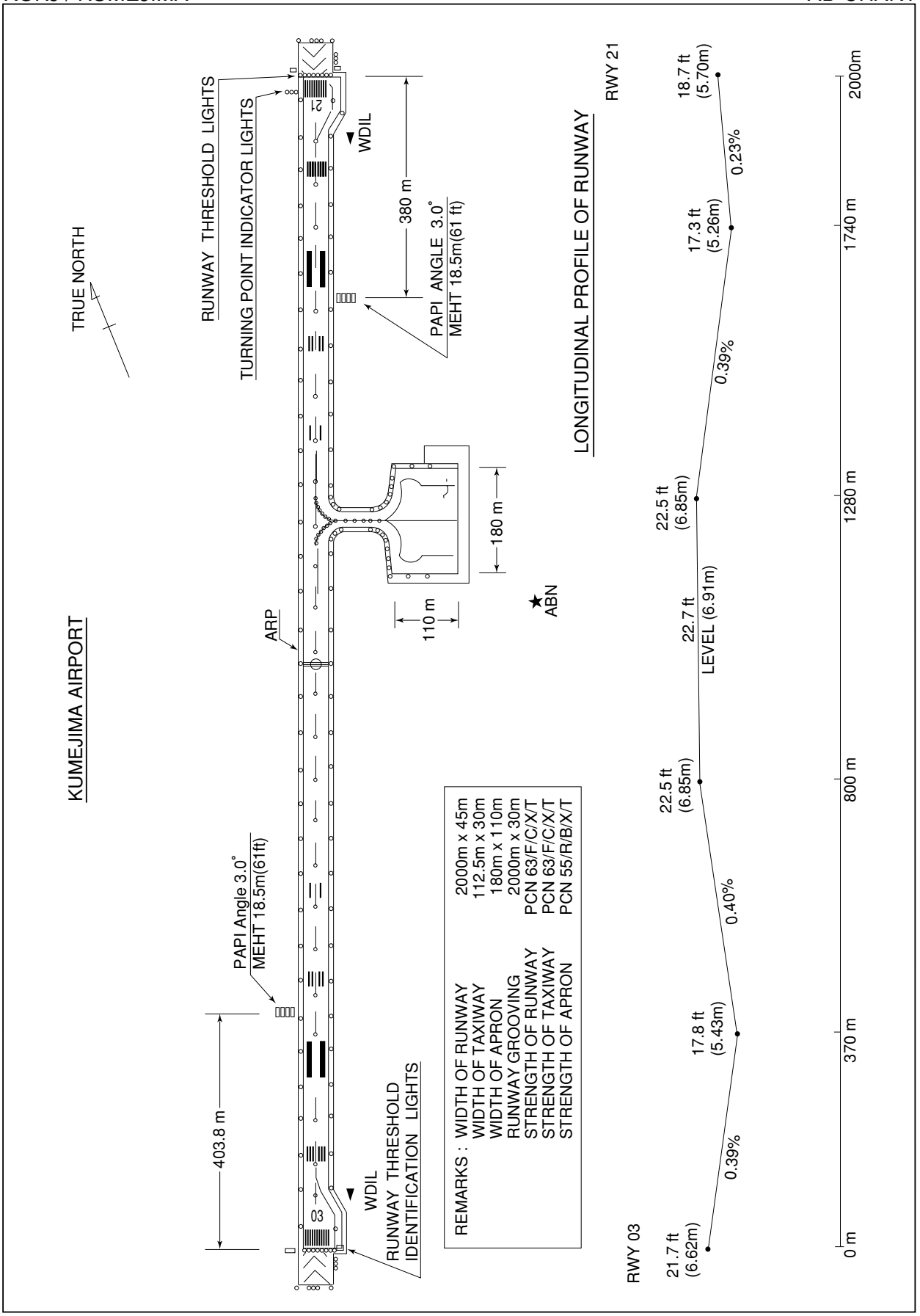
ROKJ AD 2.24 CHARTS RELATED TO AN AERODROME

Aerodrome/Heliport Chart
Standard Departure Chart - Instrument (SOUTH)
Standard Departure Chart - Instrument (DORIS, DUFFY)

Instrument Approach Chart (LOC RWY03)
Instrument Approach Chart (RNP RWY03)
Instrument Approach Chart (RNP RWY21(AR))
Other Chart (Visual REP)
Other Chart (MVA Chart)

INTENTIONALLY LEFT BLANK

ROKJ / KUMEJIMA AD CHART



INTENTIONALLY LEFT BLANK

STANDARD DEPARTURE CHART -INSTRUMENT

ROKJ / KUMEJIMA SID

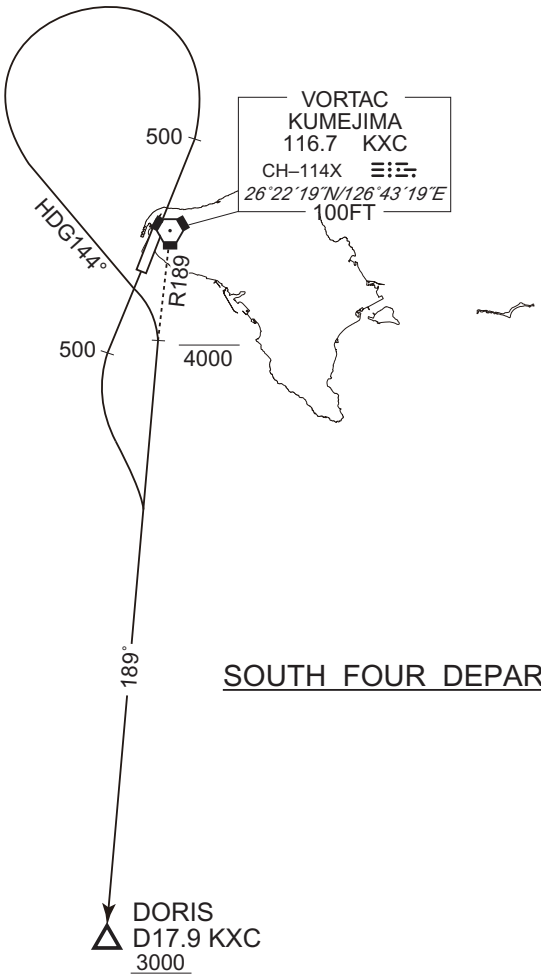
CHANGE : PROC abolished(DUFFY TWO DEPARTURE, BISIS TRANSITION). PROC renamed(SOUTH FOUR DEPARTURE).

SOUTH FOUR DEPARTURE

RWY03 : Climb RWY HDG to 500FT, turn left HDG144° to intercept and proceed via KXC R189 to DORIS.
Maintain 4000FT or below until intercepting KXC R189, cross DORIS at or above 3000FT.

RWY21 : Climb RWY HDG to 500FT, turn left to intercept and proceed via KXC R189 to DORIS.
Cross DORIS at or above 3000FT.

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



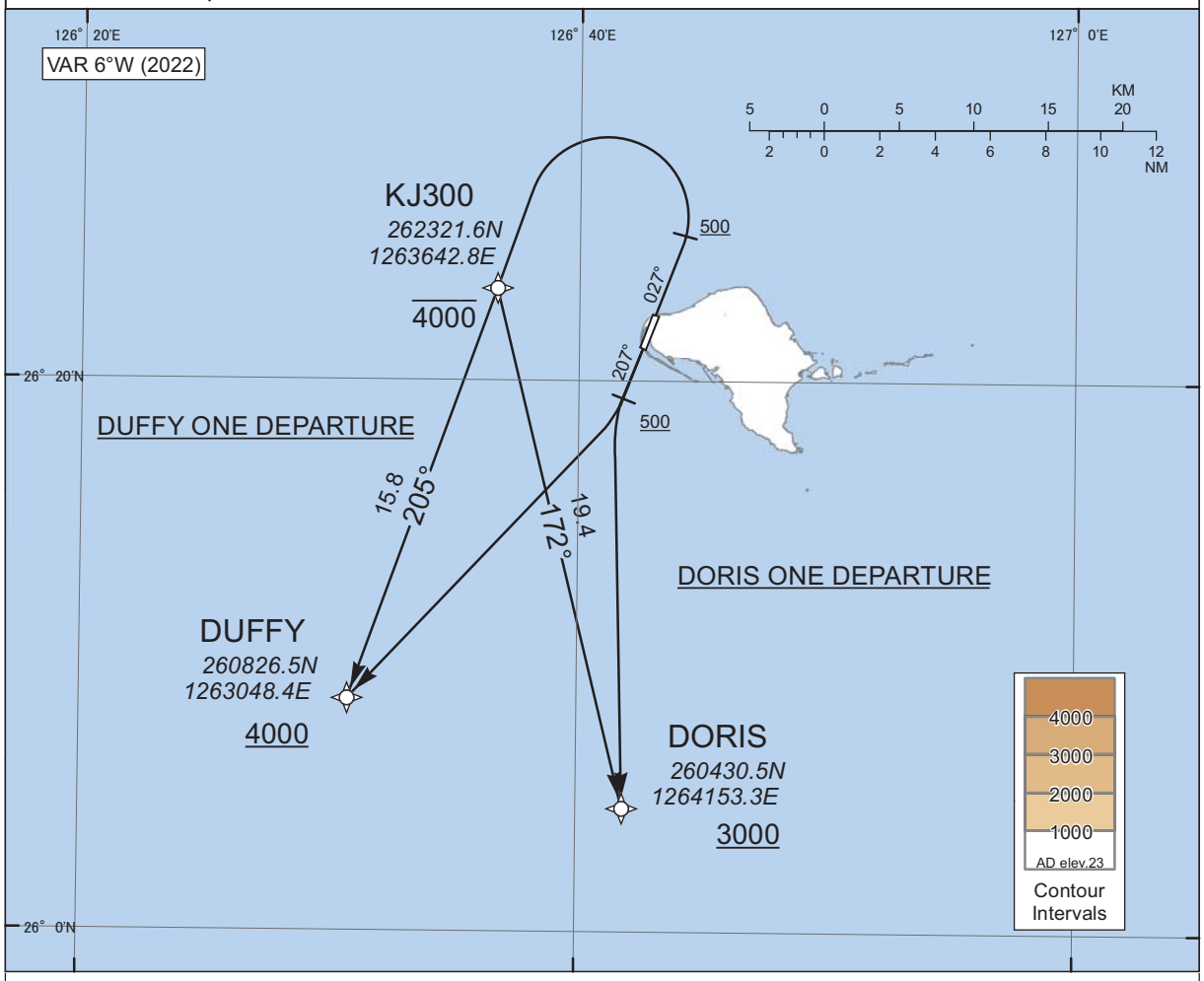
SOUTH FOUR DEPARTURE

STANDARD DEPARTURE CHART -INSTRUMENT

ROKJ / KUMEJIMA RNAV SID

DORIS ONE DEPARTURE / DUFFY ONE DEPARTURE	Basic RNP1

Note GNSS required.



DORIS ONE DEPARTURE

RWY03 : Climb on HDG027°at or above 500FT, turn left direct to KJ300 at or below 4000FT, to DORIS at or above 3000FT.
RWY21 : Climb on HDG207°at or above 500FT, turn left direct to DORIS at or above 3000FT.

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

DUFFY ONE DEPARTURE

RWY03 : Climb on HDG027°at or above 500FT, turn left direct to KJ300 at or below 4000FT, to DUFFY at or above 4000FT.
RWY21 : Climb on HDG207°at or above 500FT, turn right direct to DUFFY at or above 4000FT.

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

CHANGE : New PROC.

STANDARD DEPARTURE CHART -INSTRUMENT

ROKJ / KUMEJIMA RNAV SID

DORIS 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	-	-	027 (021.1)	-5.7	-	-	+500	-	-	Basic RNP1
002	DF	KJ300	-	-	-5.7	-	L	-4000	-	-	Basic RNP1
003	TF	DORIS	-	172 (166.1)	-5.7	19.4	-	+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	-	-	207 (201.1)	-5.7	-	-	+500	-	-	Basic RNP1
002	DF	DORIS	-	-	-5.7	-	L	+3000	-	-	Basic RNP1

DUFFY 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	-	-	027 (021.1)	-5.7	-	-	+500	-	-	Basic RNP1
002	DF	KJ300	-	-	-5.7	-	L	-4000	-	-	Basic RNP1
003	TF	DUFFY	-	205 (199.6)	-5.7	15.8	-	+4000	-	-	Basic RNP1

RWY21

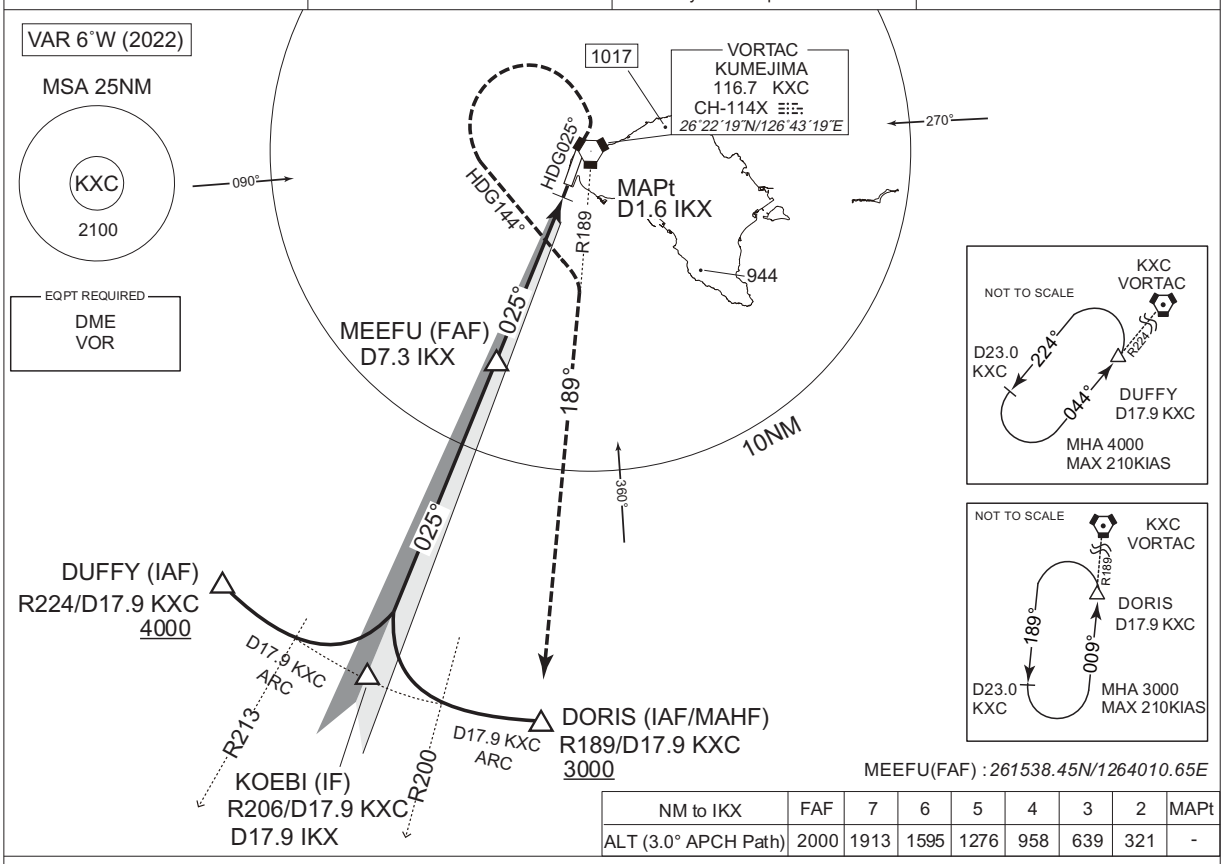
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	207 (201.1)	-5.7	-	-	+500	-	-	Basic RNP1
002	DF	DUFFY	-	-	-5.7	-	R	+4000	-	-	Basic RNP1

CHANGE : New PROC.

INSTRUMENT APPROACH CHART

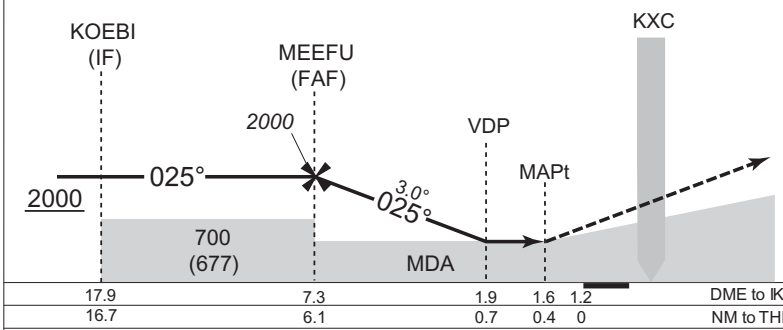
ROKJ / KUMEJIMA — LOC RWY 03

NAHA APP	LOC	KUMEJIMA RADIO	RADAR AVBL
119.1 - 335.8	110.95 IKX LOC-DME CH-46Y	122.7 AFIS provided by Naha Airport Office	



MEEFU(FAF) : *261538.45N/1264010.65E*

NM to IKX	FAF	7	6	5	4	3	2	MAPt
ALT (3.0° APCH Path)	2000	1913	1595	1276	958	639	321	-



MISSED APPROACH

Climb to 500FT on HDG025°, turn left HDG144° to intercept and proceed via KXC R189 to DORIS and hold at 3000FT.
Contact KUMEJIMA RADIO.

Timing not authorized for defining the MAPt.

Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 22		AD elev. 23	
CAT			CIRCLING	
	MDA(H)	CMV	MDA(H)	VIS
A	280 (257)	1500	380 (357)	1600
B			480 (457)	
C		1600		2400
D		1800	580 (557)	3200

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

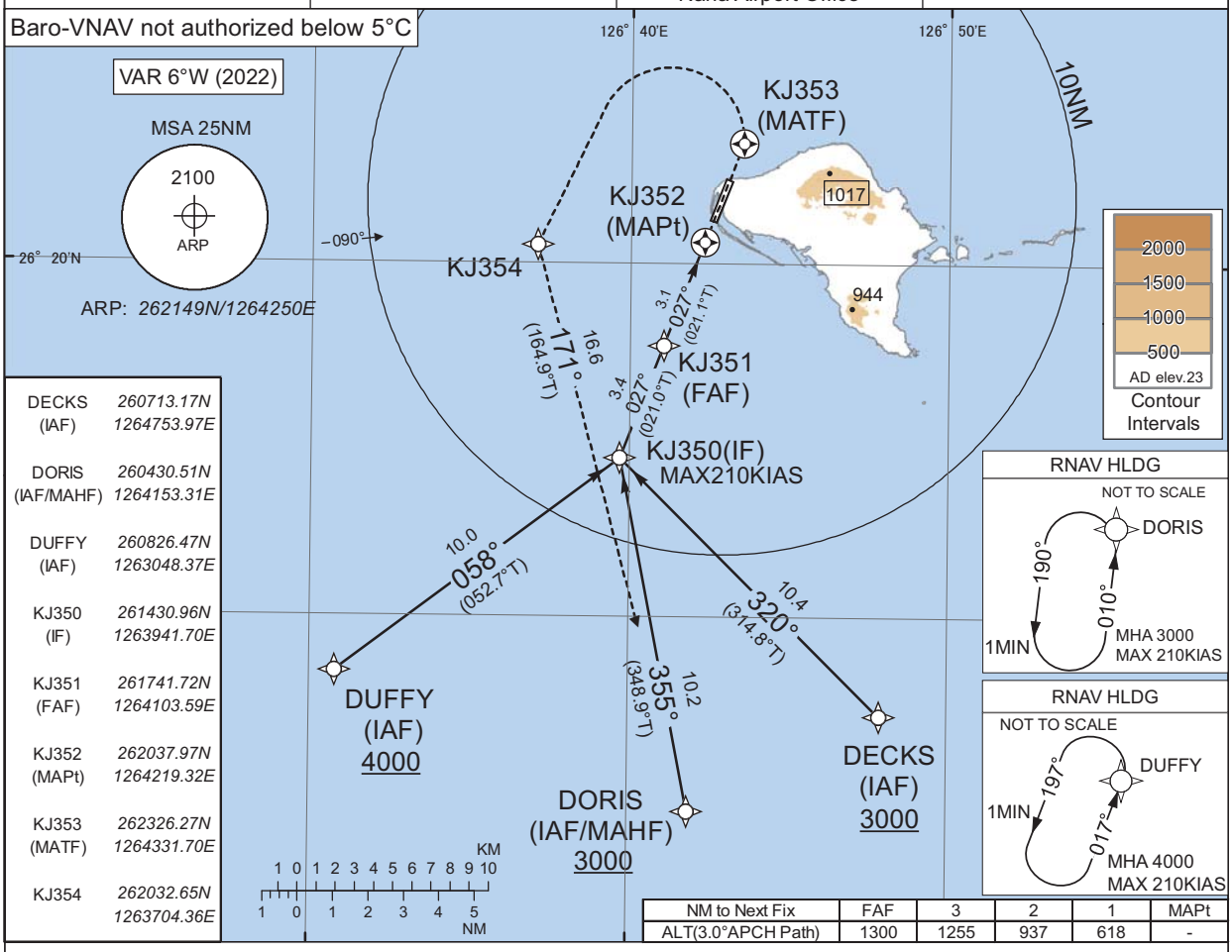
CHANGE : VAR. MSA. KOEBI, MEEFU established. EQPT REQUIRED added. Description of HLDG(DORIS, DUFFY), NM to IKX, ALT(3.0° APCH Path) added. Profile view. MDA(H), CMV.

INSTRUMENT APPROACH CHART

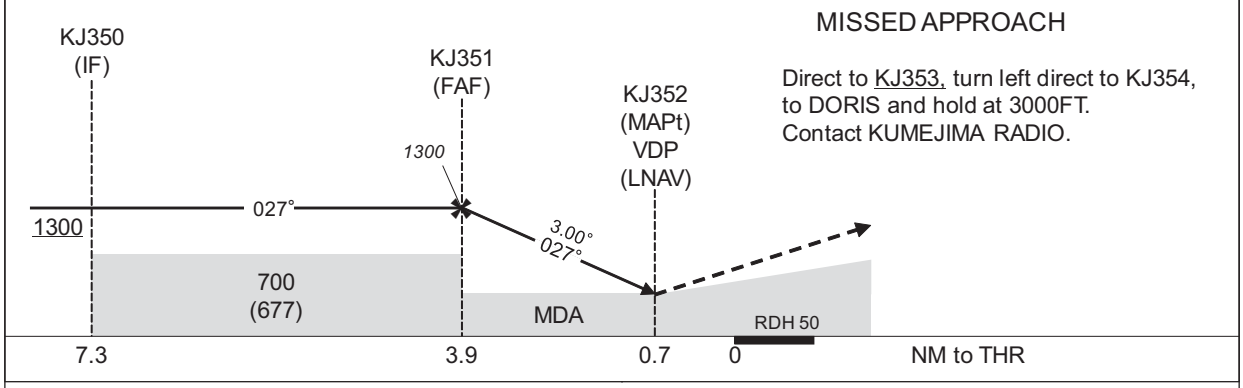
ROKJ / KUMEJIMA

RNP RWY03

NAHA APP 119.1 - 335.8	RNP APCH	KUMEJIMA RADIO 122.7 AFIS provided by Naha Airport Office	RADAR AVBL



NM to Next Fix	FAF	3	2	1	MAPt
ALT(3.0°APCH Path)	1300	1255	937	618	-



MISSED APPROACH

Direct to KJ353, turn left direct to KJ354, to DORIS and hold at 3000FT.
Contact KUMEJIMA RADIO.

Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 22		AD elev. 23			
CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	CMV	MDA(H)	CMV	MDA(H)	VIS
A	300(278)	1500	300(277)	1500	380(357)	1600
B					480(457)	
C		1600		1600		2400
D	301(279)	1800		1800	580(557)	3200

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

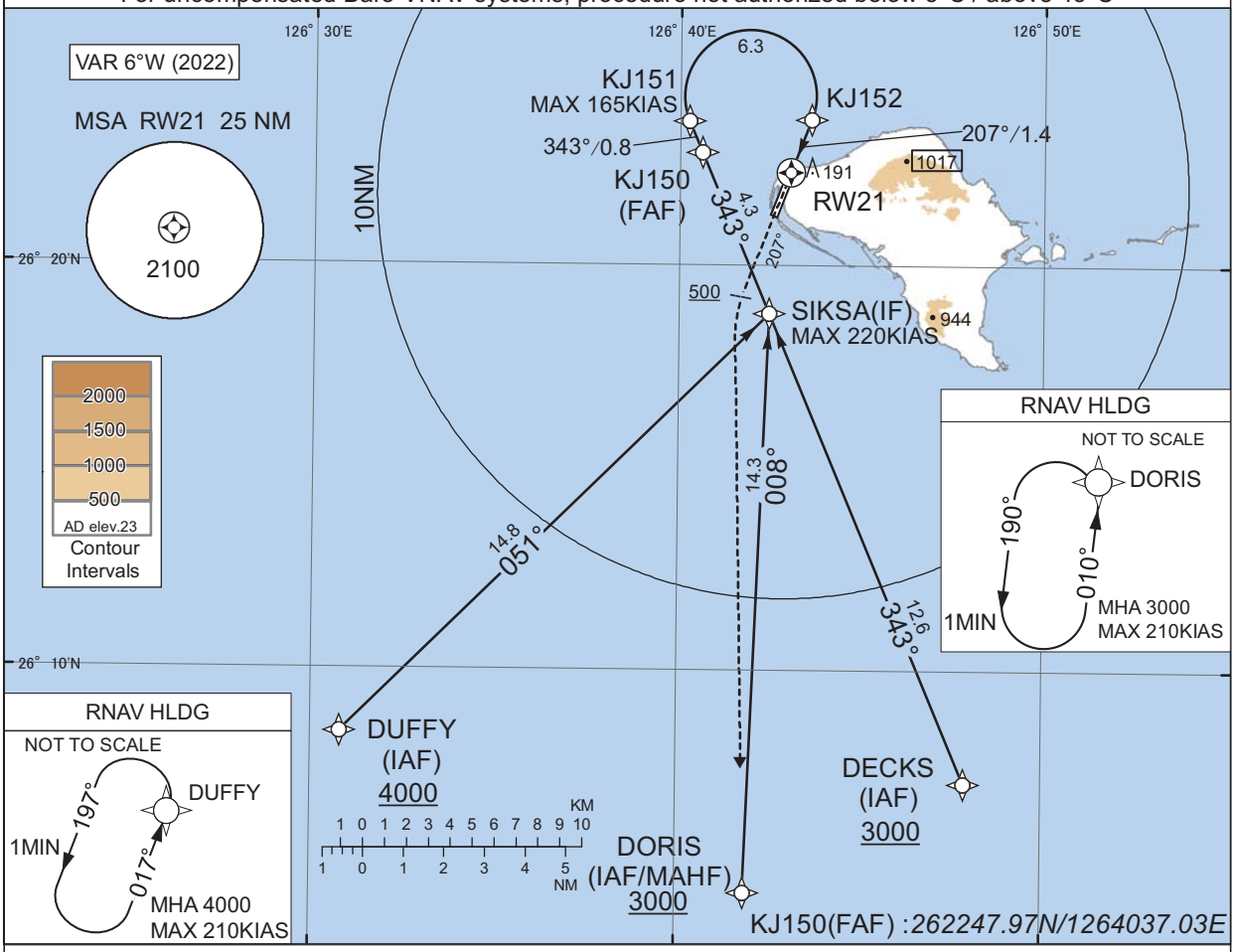
CHANGE : New PROC.

INSTRUMENT APPROACH CHART

ROKJ / KUMEJIMA — RNP RWY21(AR)

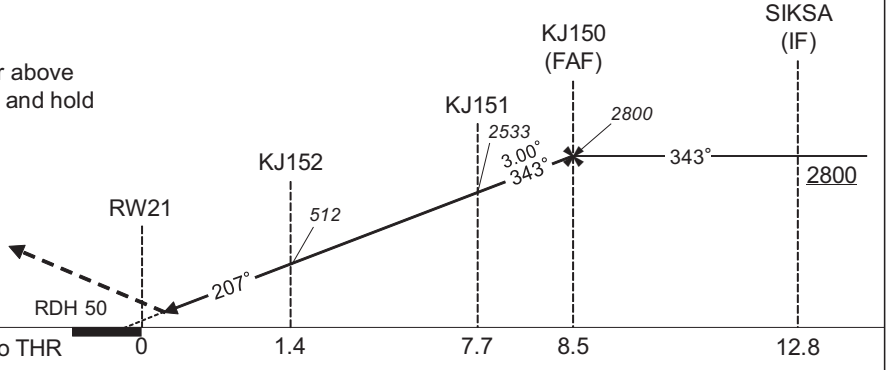
NAHA APP 119.1 - 335.8	RNP AR RF required.	KUMEJIMA RADIO 122.7 AFIS provided by Naha Airport Office	RADAR AVBL

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



MISSED APPROACH

From RW21 on track 207°, at or above 500FT turn left, direct to DORIS and hold at 3000FT.
Contact KUMEJIMA RADIO.



CHANGE : New PROC.

MINIMA	THR elev. 19		AD elev. 23	
CAT	RNP 0.20		RNP 0.30	
	DA(H)	CMV	DA(H)	CMV
A	-	-	-	-
B				
C	319(300)	1800	342(323)	1800
D		2000	352(333)	2000

Authorization Required

INSTRUMENT APPROACH CHART

ROKJ / KUMEJIMA RNP 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	DECKS	-	-	-5.7	-	-	+3000	-	-	-
002	TF	SIKSA	-	343 (337.3)	-5.7	12.6	-	+2800	-220	-	0.3
001	IF	DORIS	-	-	-5.7	-	-	+3000	-	-	-
002	TF	SIKSA	-	008 (002.1)	-5.7	14.3	-	+2800	-220	-	1.0
001	IF	DUFFY	-	-	-5.7	-	-	+4000	-	-	-
002	TF	SIKSA	-	051 (045.2)	-5.7	14.8	-	+2800	-220	-	1.0
001	IF	SIKSA	-	-	-5.7	-	-	+2800	-220	-	-
002	TF	KJ150	-	343 (337.2)	-5.7	4.3	-	2800	-	-	0.3
003	TF	KJ151	-	343 (337.2)	-5.7	0.8	-	2533	-165	-3.00	0.20 0.30
004	RF Center: KJRF1 r=1.62NM	KJ152	-	-	-5.7	6.3	R	512	-	-3.00	0.20 0.30
005	TF	RW21	Y	207 (201.1)	-5.7	1.4	-	69	-	-3.00/50	0.20 0.30
006	FA	-	-	207 (201.1)	-5.7	-	-	+500	-	-	1.0
007	DF	DORIS	-	-	-5.7	-	L	3000	-	-	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	DORIS	010 (004.1)	-5.7	1.0 (-14000)	L	3000	FL140	-210 (-14000)	1.0
Hold	DUFFY	017 (010.9)	-5.7	1.0 (-14000)	L	4000	FL140	-210 (-14000)	1.0

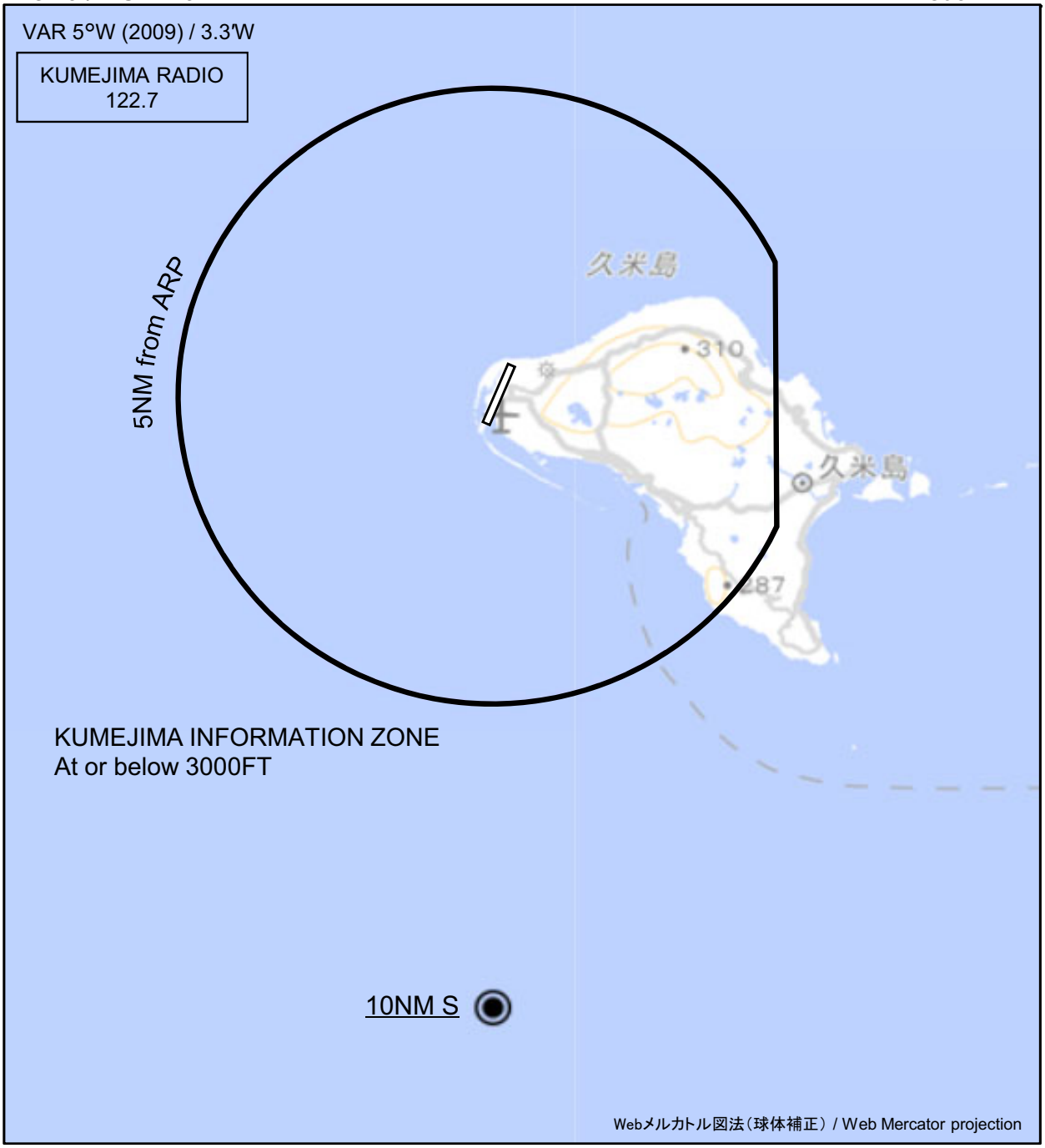
Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
DECKS	*260713.17N / 1264753.97E*	KJRF1	*262412.35N / 1264155.20E*
DORIS	*260430.51N / 1264153.31E*		
DUFFY	*260826.47N / 1263048.37E*		
SIKSA	*261849.62N / 1264228.65E*		
KJ150	*262247.97N / 1264037.03E*		
KJ151	*262334.37N / 1264015.28E*		
KJ152	*262337.07N / 1264336.35E*		
RW21	*262218.92N / 1264302.73E*		

CHANGE : New PROC.

ROKJ / KUME JIMA

Visual REP



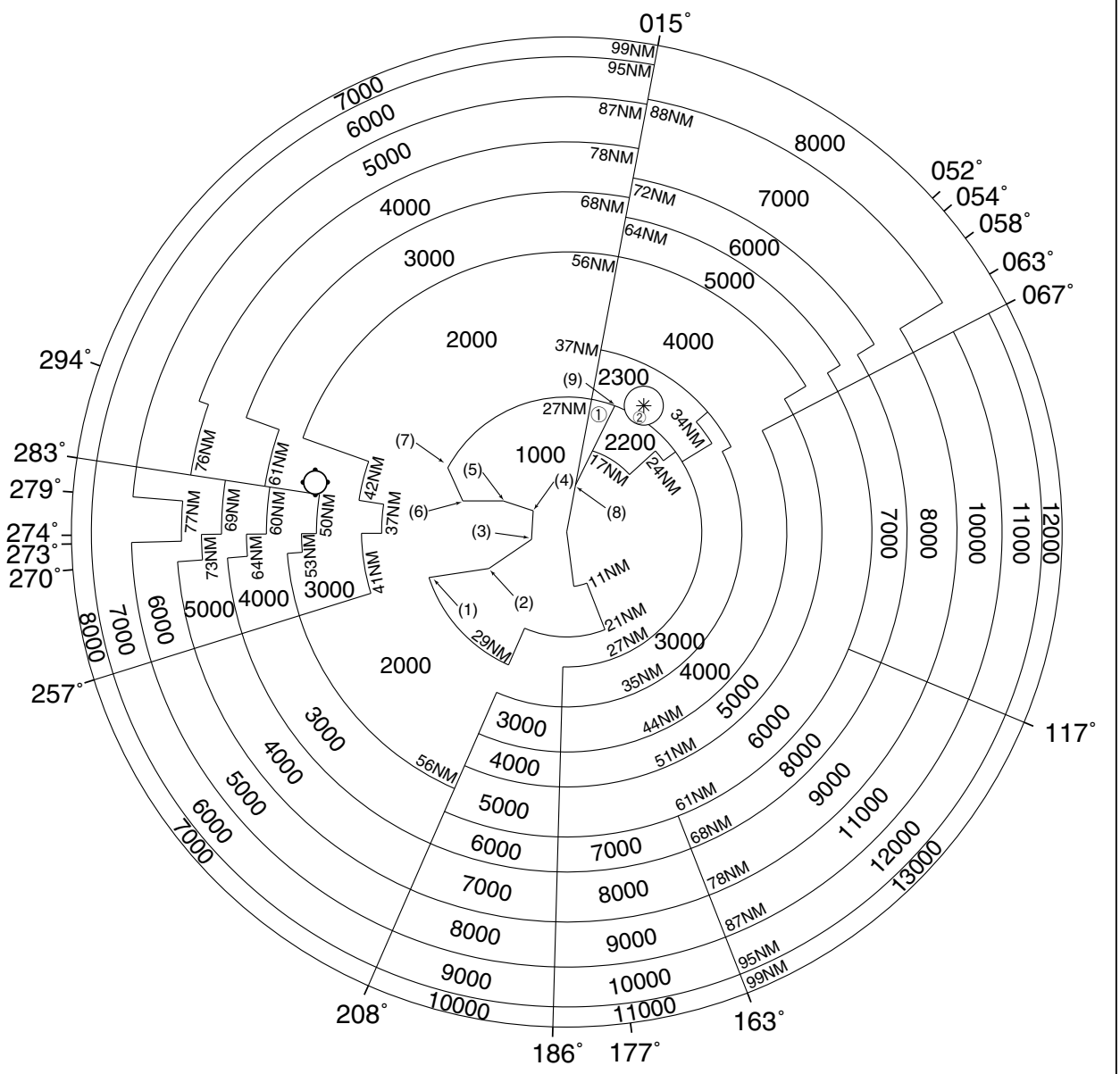
※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

CHANGE : Map updated. BRG/DIST from ARP.

Call sign	BRG / DIST from ARP	Remarks
10NM S	180°T / 10.0NM	海上 Over the sea

ROKJ / KUMEJIMA Minimum Vectoring Altitude CHART

VAR 5˚W (2011)



① 1500
② 2600

(1) *260301N/1270807E*
(2) *260459N/1272121E*
(3) *261057N/1273045E*
(4) *261640N/1273102E*
(5) *261835N/1272422E*
(6) *261829N/1271524E*
(7) *262505N/1271157E*
(8) *262154N/1274025E*
(9) *263755N/1274900E*

CENTER: *261231N/1273834E* (NHC)
✳ : *263759N/1275528E*
RADIUS 3.9NM