

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	262 149N/126 4250E 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 : 357m FM RWY03 THR, LGTD RWY21 : 231m 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

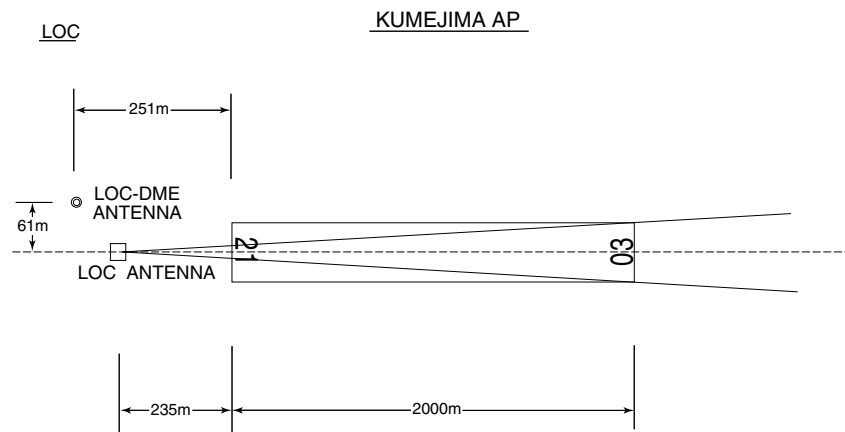
Designation and lateral limits		Vertical limits (ft)	Airspace classification	ATS unit call sign Language	Remarks
1		2	3	4	6
Kumejima Information Zone	Area within a radius of 5nm of Kumejima ARP (2622N/12643E), in the west side of a line connecting 262714N1264754E and 261214N1264754E.	----- 3000	E	Kumejima 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 (6°W/2021)	KXC	116.7MHz	H24	262218.73N/ 1264319.43E		VOR Unusable: 080°-100° beyond 15nm BLW 4,000ft. 100°-150° beyond 20nm BLW 3,000ft.
TACAN	KXC	1201MHz (CH-114X)	H24	262218.01N/ 1264317.89E	57ft	TACAN DME Unusable: 080°-100° beyond 15nm BLW 4,000ft. 100°-150° beyond 20nm BLW 3,000ft. 150°-160° beyond 25nm BLW 3,000ft. 160°-170° beyond 30nm BLW 3,000ft. TACAN AZM Unusable: 040°-060° beyond 35nm BLW 3,000ft. 070°-080° beyond 30nm BLW 4,000ft. 080°-100° beyond 10nm BLW 4,000ft. 100°-110° beyond 5nm BLW 3,000ft. 110°-120° beyond 10nm BLW 3,000ft. 120°-150° beyond 15nm BLW 3,000ft. 150°-190° beyond 20nm BLW 3,000ft. 190°-200° beyond 25nm BLW 3,000ft. 200°-210° beyond 30nm BLW 3,000ft. 210°-220° beyond 35nm 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

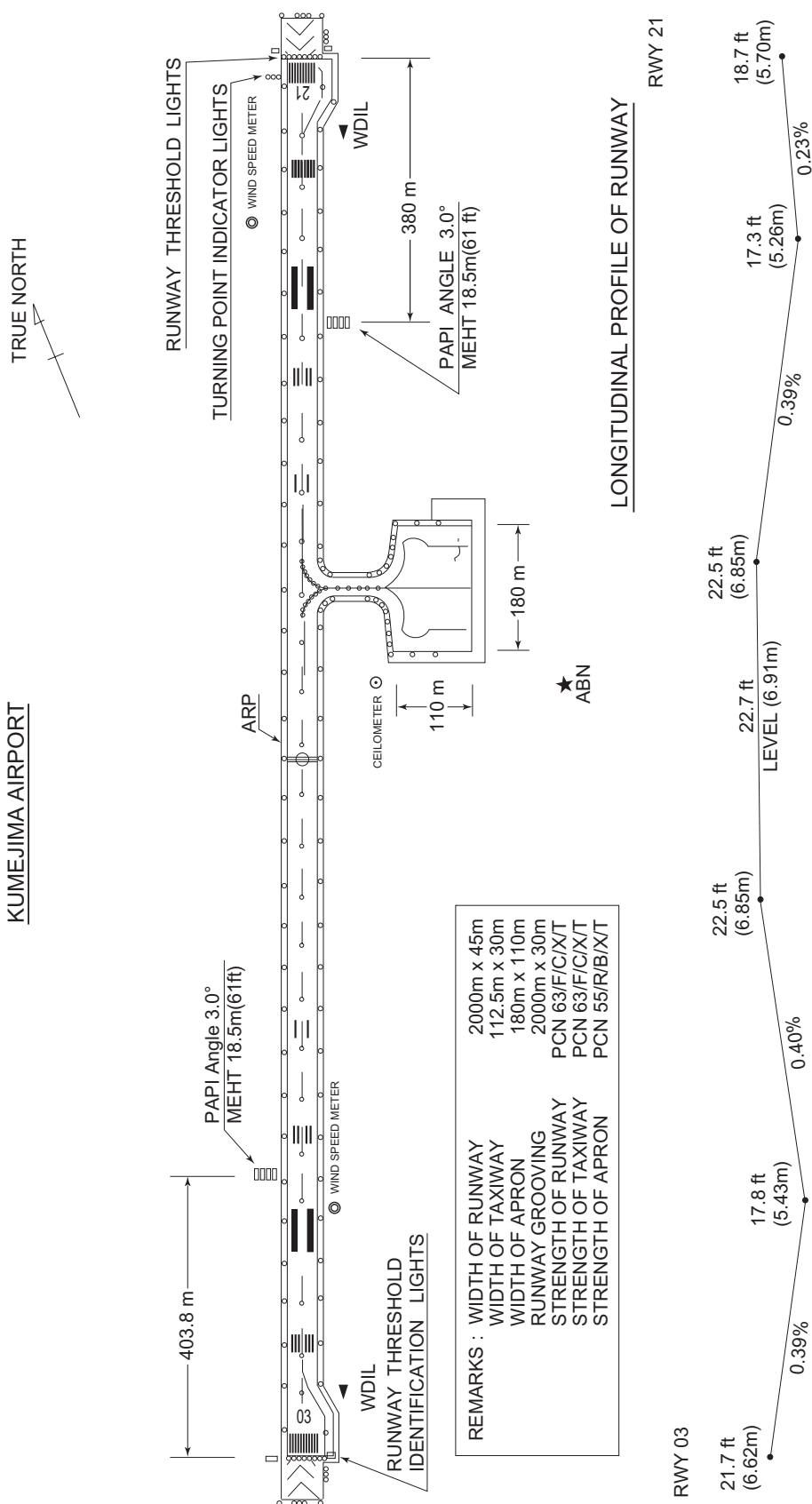
Aerodrome/Heliport Chart
Standard Departure Chart - Instrument (SOUTH)
Standard Departure Chart - Instrument (DORIS, DUFFY)

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

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AD CHART

KUMEJIMA AIRPORT



LONGITUDINAL PROFILE OF RUNWAY

RWY 21

RWY 03

Profile view of the proposed road showing elevations and grades. The profile starts at an elevation of 21.7 ft (6.62m) and ends at 18.7 ft (5.70m). The road is divided into segments with the following grades: 0.39%, 0.40%, 0.39%, and 0.23%. A level section is indicated between 22.5 ft (6.85m) and 22.7 ft (6.91m).

Stationing	Elevation (ft)	Elevation (m)	Grade (%)
0+00	21.7	6.62	0.39%
0+10	17.8	5.43	0.40%
0+20	22.5	6.85	0.39%
0+30	22.7	6.91	0.23%
0+40	17.3	5.26	
0+50	18.7	5.70	

A vertical scale bar with tick marks at 0 m, 370 m, 800 m, 1280 m, 1740 m, and 2000 m.

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STANDARD DEPARTURE CHART -INSTRUMENT

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SID

SOUTH FIVE DEPARTURE

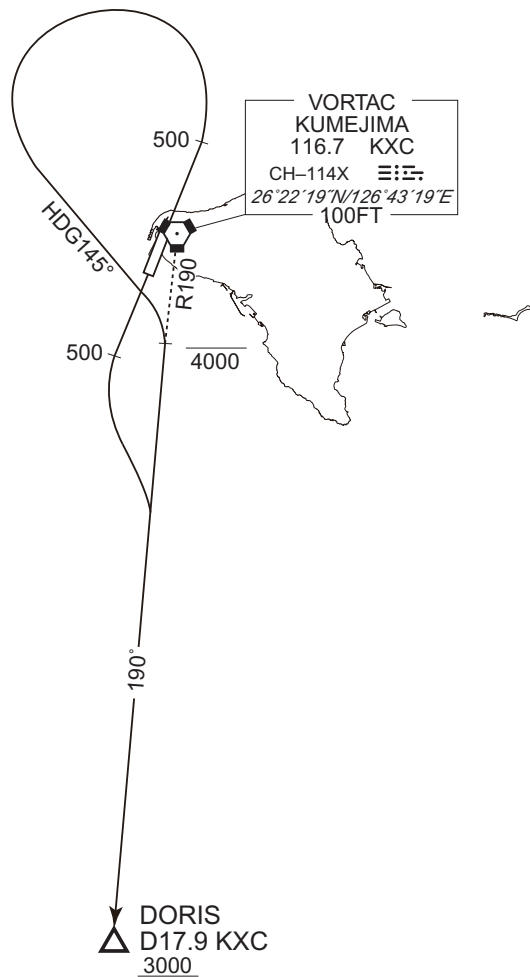
RWY03 : Climb RWY HDG to 500FT, turn left HDG145° to intercept and proceed via KXC R190 to DORIS.

Maintain 4000FT or below until intercepting KXC R190, cross DORIS at or above 3000FT.

RWY21 : Climb RWY HDG to 500FT, turn left to intercept and proceed via KXC R190 to DORIS.

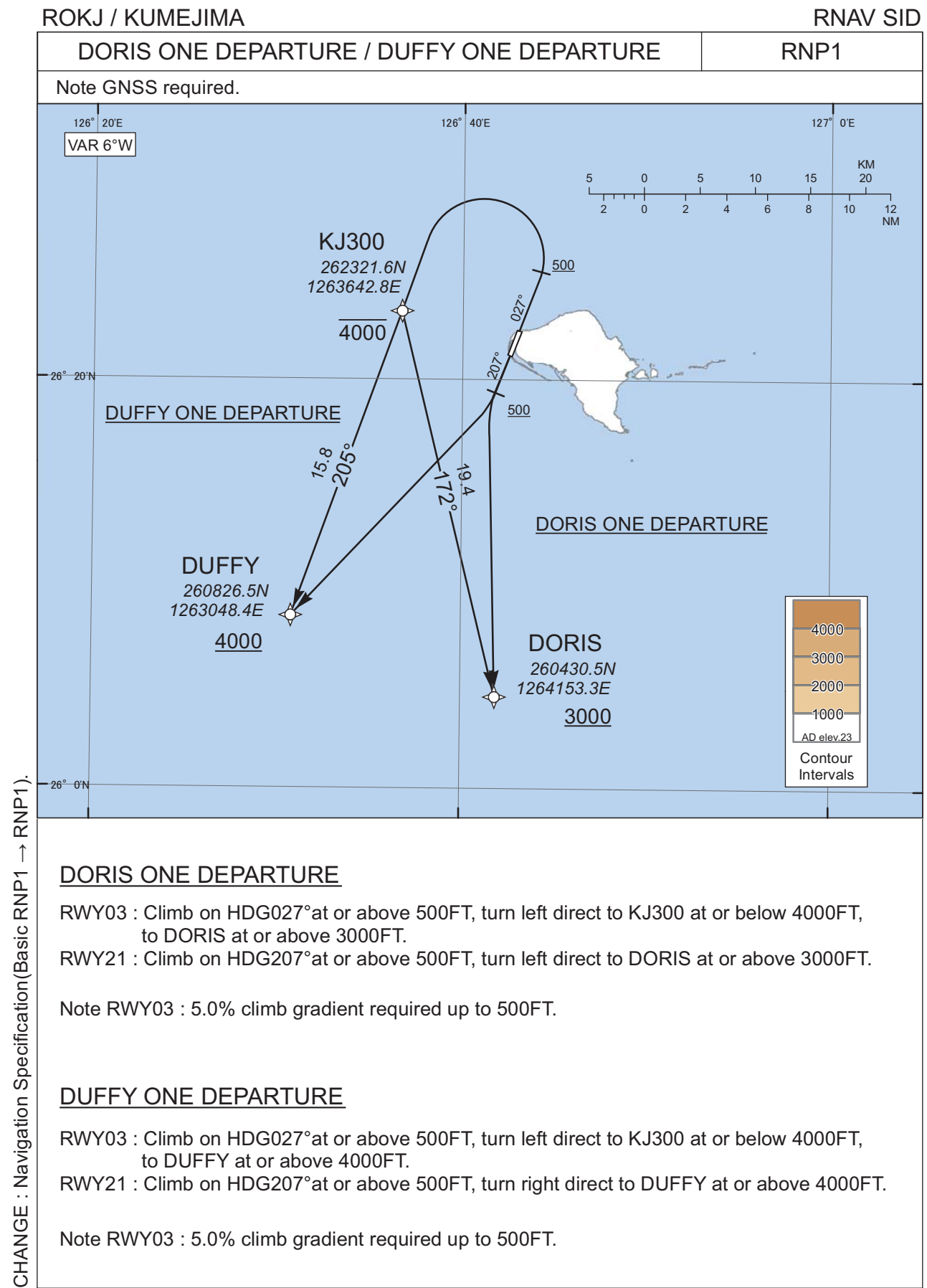
Cross DORIS at or above 3000FT.

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



CHANGE : PROC renamed. PROC course.

STANDARD DEPARTURE CHART -INSTRUMENT



STANDARD DEPARTURE CHART -INSTRUMENT

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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	-	-	RNP1
002	DF	KJ300	-	-	-5.7	-	L	-4000	-	-	RNP1
003	TF	DORIS	-	172 (166.1)	-5.7	19.4	-	+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	-	-	207 (201.1)	-5.7	-	-	+500	-	-	RNP1
002	DF	DORIS	-	-	-5.7	-	L	+3000	-	-	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	-	-	RNP1
002	DF	KJ300	-	-	-5.7	-	L	-4000	-	-	RNP1
003	TF	DUFFY	-	205 (199.6)	-5.7	15.8	-	+4000	-	-	RNP1

RWY21

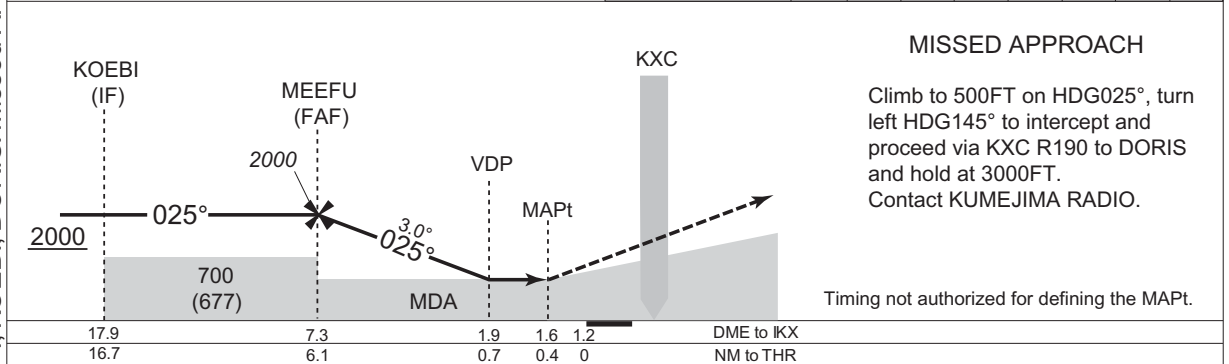
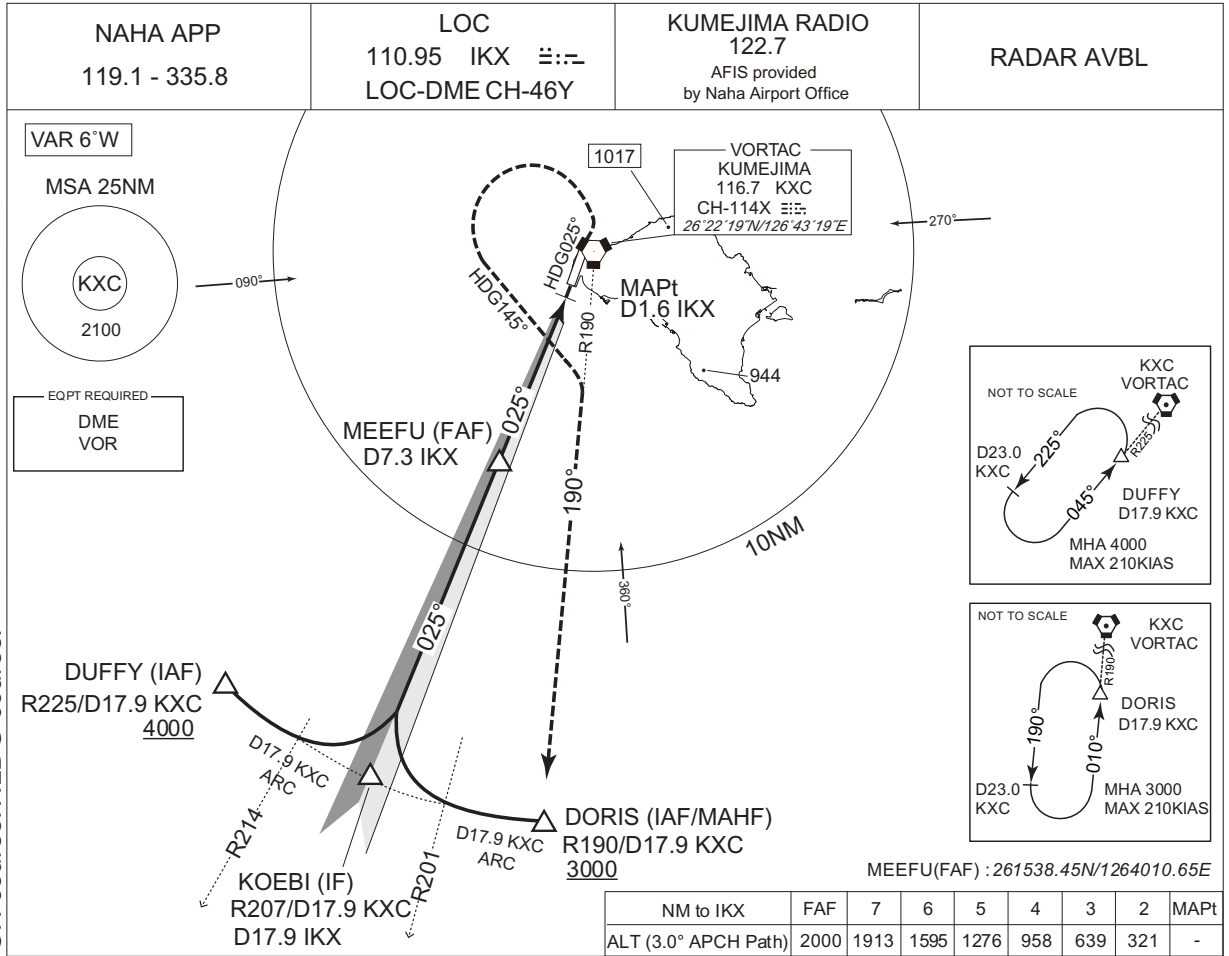
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	207 (201.1)	-5.7	-	-	+500	-	-	RNP1
002	DF	DUFFY	-	-	-5.7	-	R	+4000	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

INSTRUMENT APPROACH CHART

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LOC RWY 03



Missed APCH climb gradient MNM 5.0%

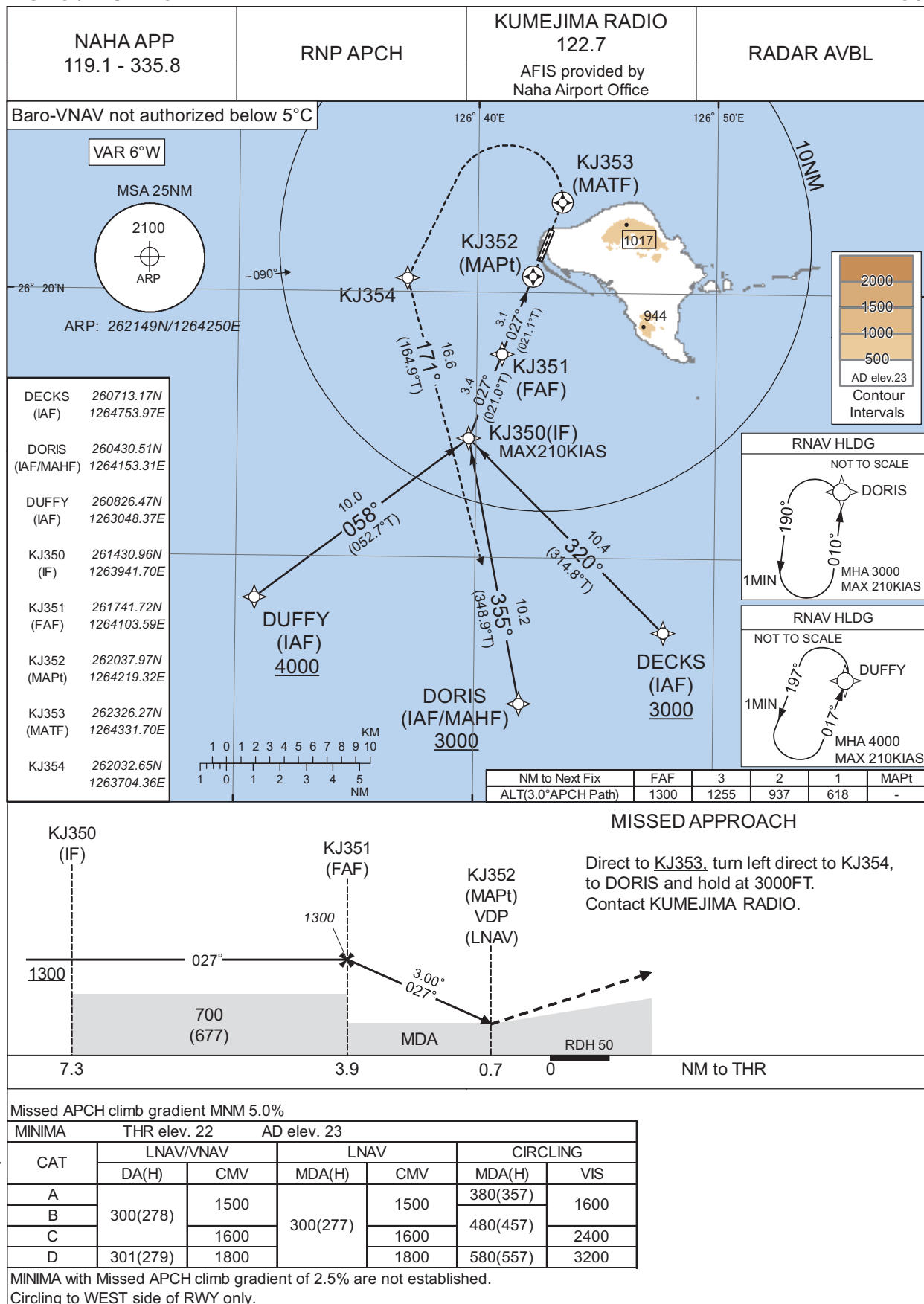
MINIMA		THR elev. 22	AD elev. 23
CAT	MDA(H)	CMV	CIRCLING
A	280 (257)	1500	380 (357)
B		1600	480 (457)
C			2400
D		1800	580 (557)

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

INSTRUMENT APPROACH CHART

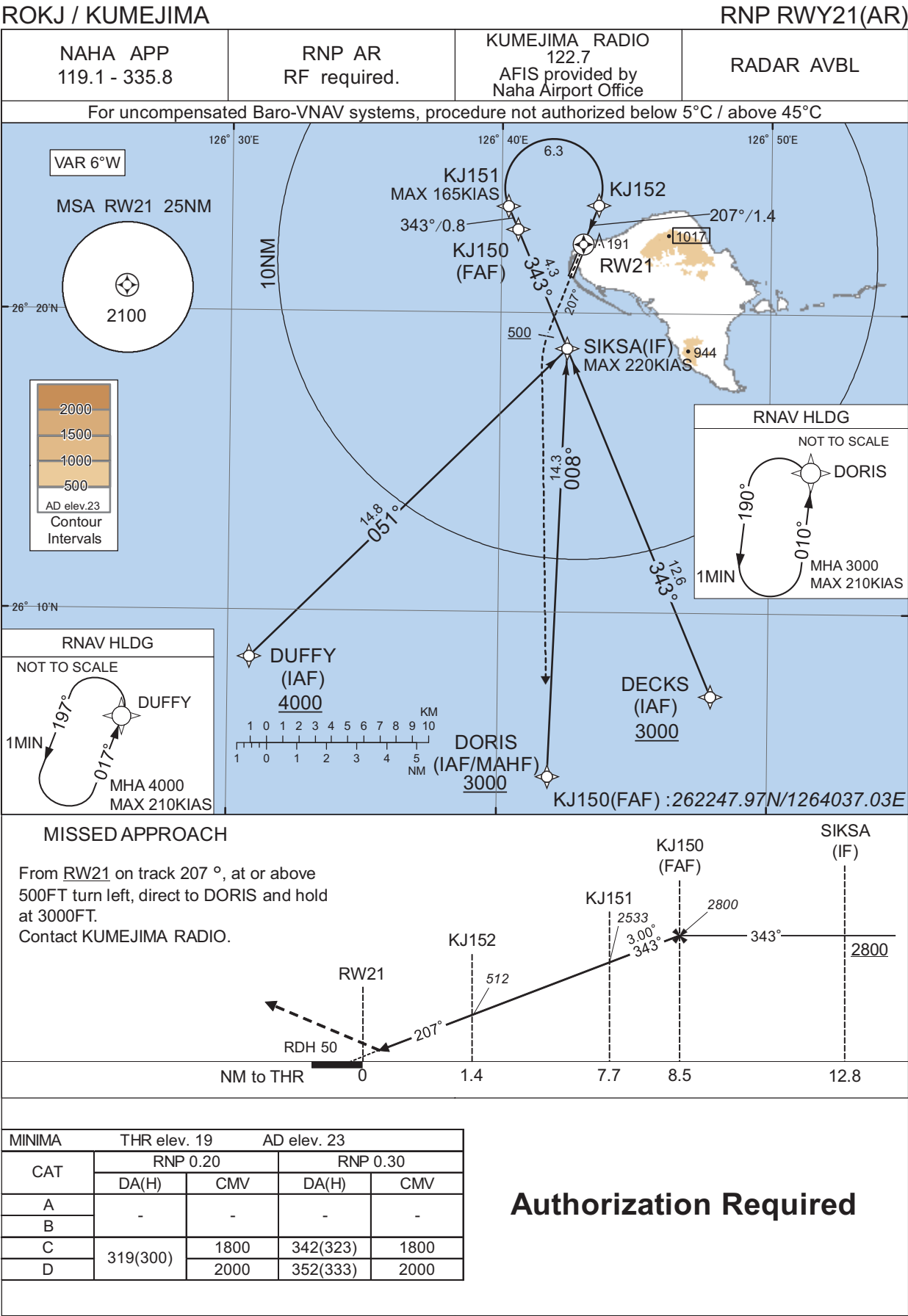
ROKJ / KUMEJIMA

RNP RWY03



CHANGE : Description of VAR.

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

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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.



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Minimum Vectoring Altitude CHART

