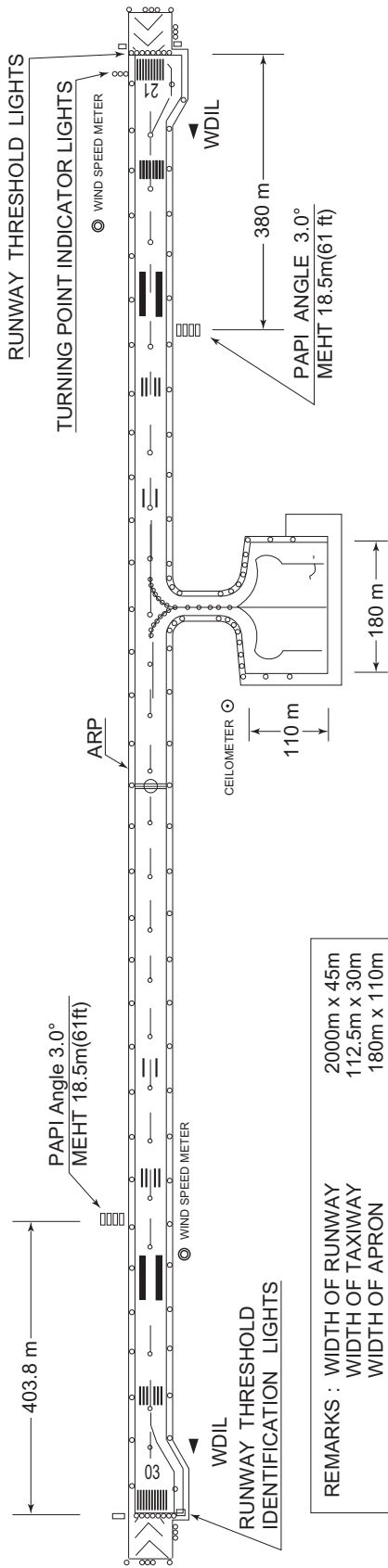


ROKJ / KUMEJIMA

AD CHART

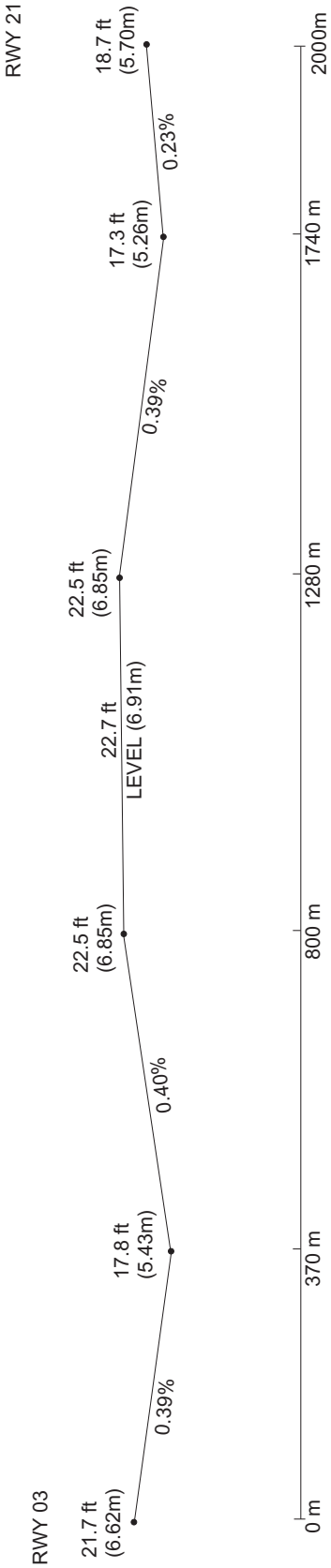
CHANGE : CEILOMETER, WIND SPEED METER added.

KUMEJIMA AIRPORT



REMARKS :	WIDTH OF RUNWAY	2000m x 45m
	WIDTH OF TAXIWAY	112.5m x 30m
	WIDTH OF APRON	180m x 110m
	RUNWAY GROOVING	2000m x 30m
	STRENGTH OF RUNWAY	PCN 63/F/C/X/T
	STRENGTH OF TAXIWAY	PCN 63/F/C/X/T
	STRENGTH OF APRON	PCN 55/R/B/X/T

LONGITUDINAL PROFILE OF RUNWAY



INTENTIONALLY LEFT BLANK

STANDARD DEPARTURE CHART -INSTRUMENT

ROKJ / KUMEJIMA

SID

SOUTH FIVE DEPARTURE

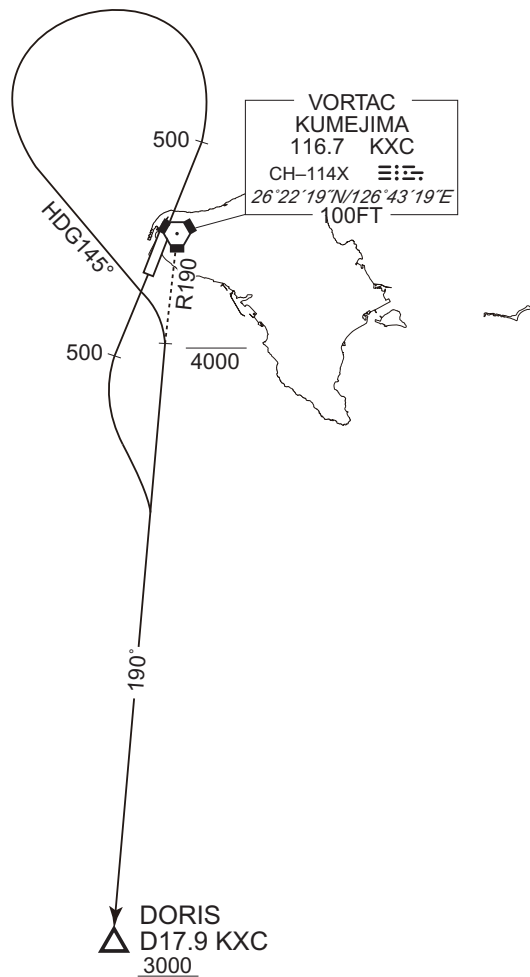
RWY03 : Climb RWY HDG to 500FT, turn left HDG145° to intercept and proceed via KXC R190 to DORIS.

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

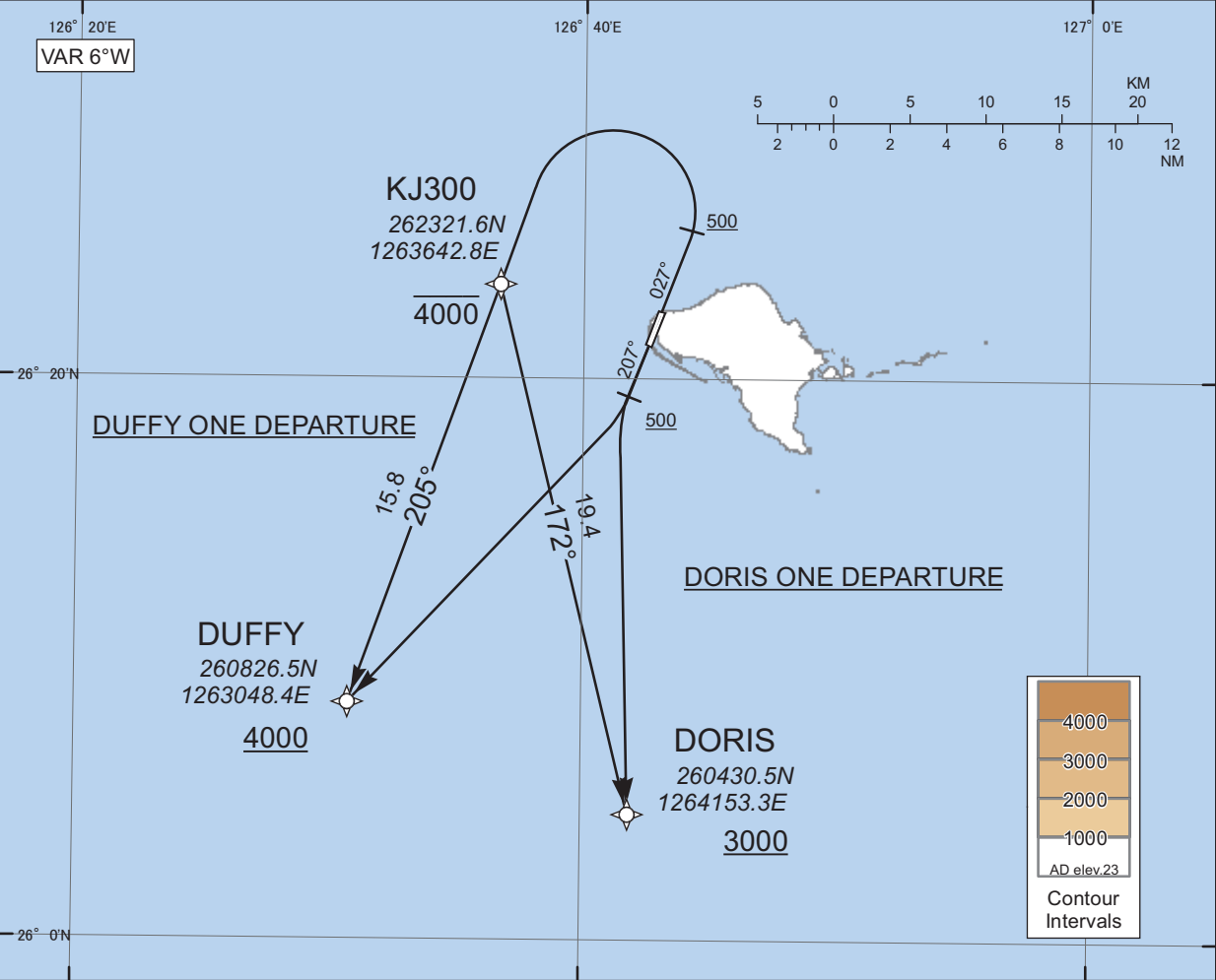
ROKJ / KUMEJIMA

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 : Description of VAR.

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

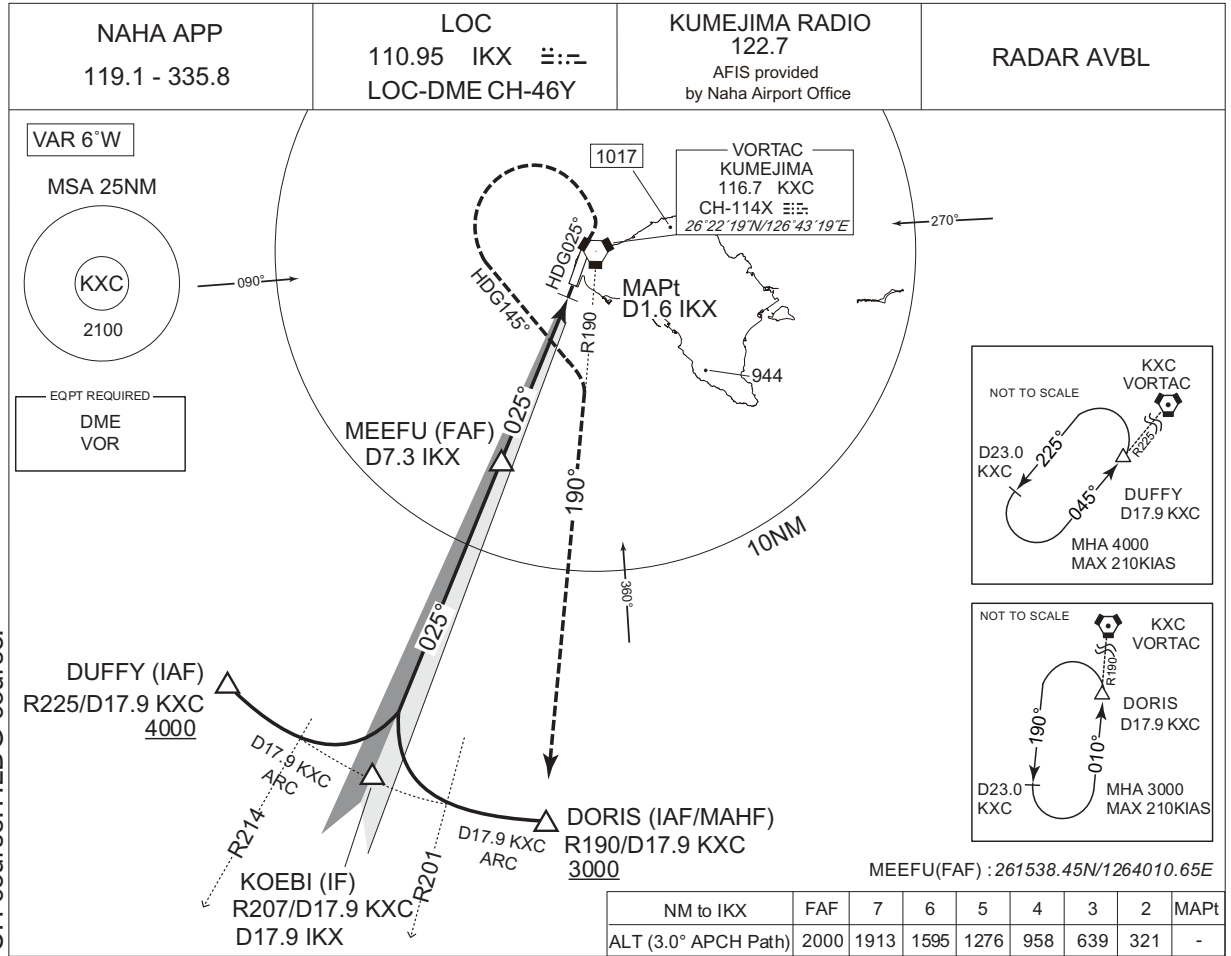
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	207 (201.1)	-5.7	-	-	+500	-	-	Basic RNP1
002	DF	DUFFY	-	-	-5.7	-	R	+4000	-	-	Basic RNP1

CHANGE : New PROC.

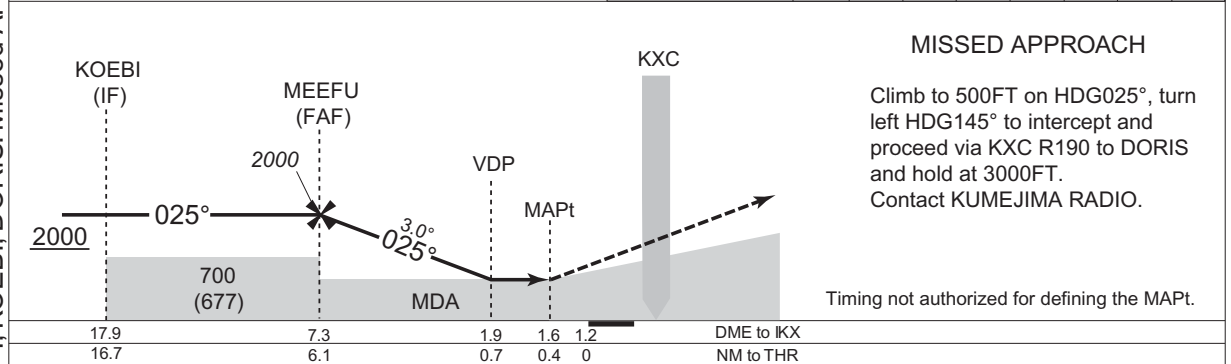
INSTRUMENT APPROACH CHART

ROKJ / KUMEJIMA

LOC RWY 03



CHANGE : BRG FM KXC for DUFFY, KOEBI, DORIS. Missed APCH course. HLDG course.



Missed APCH climb gradient MNM 5.0%

MINIMA		THR elev. 22	AD elev. 23
CAT	CIRCLING		
	MDA(H)	CMV	VIS
A	280 (257)	1500	380 (357)
B		1600	1600
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.

ROKJ / KUMEJIMA

NHAHA APP
119.1 - 335.8

RNP APCH

KUMEJIMA RADIO
122.7
AFIS provided by
Naha Airport Office

RADAR AVBL

Baro-VNAV not authorized below 5°C

VAR 6°W

MSA 25NM

2100

ARP

ARP: 262149N/1264250E

DECKS	260713.17N
(IAF)	1264753.97E
DORIS	260430.51N
(IAF/MAHF)	1264153.31E
DUFFY	260826.47N
(IAF)	1263048.37E
KJ350	261430.96N
(IF)	1263941.70E
KJ351	261741.72N
(FAF)	1264103.59E
KJ352	262037.97N
(MAPt)	1264219.32E
KJ353	262326.27N
(MATF)	1264331.70E
KJ354	262032.65N
	1263704.36E

RNAV HLDG

NOT TO SCALE

1MIN

190°

010°

MHA 3000

MAX 210KIAS

RNAV HLDG

NOT TO SCALE

1MIN

197°

017°

MHA 4000

MAX 210KIAS

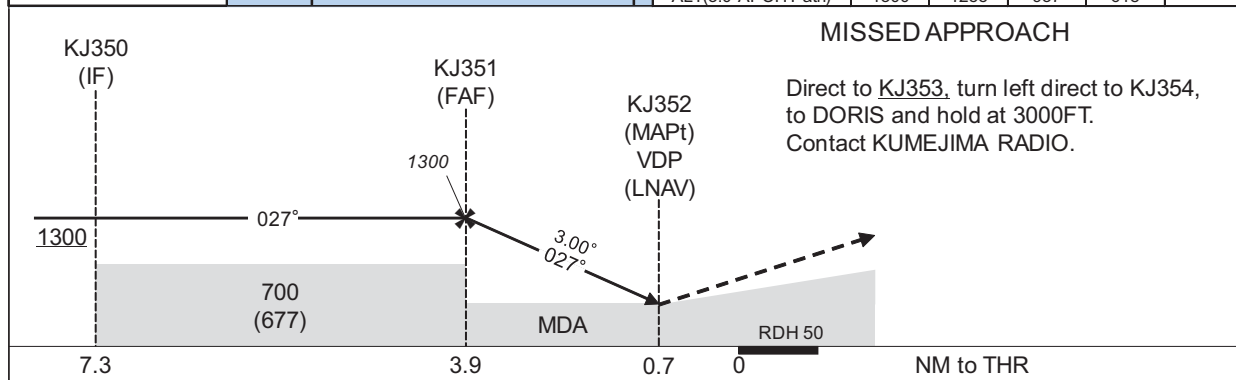
Legend:

- 2000
- 1500
- 1000
- 500
- AD elev.23
- Contour Intervals

Scale:

1 0 1 2 3 4 5 6 7 8 9 10 NM

1 0 1 2 3 4 5 6 7 8 9 10 KM



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		1600		1600	480(457)	2400
C						
D	301(279)	1800		1800	580(557)	3200

CHANGE : Description of VAR.

ROKJ / KUMEJIMA

RNP RWY21(AR)



INSTRUMENT APPROACH CHART

ROKJ / KUMEJIMA

RNP RWY21(AR)

Coding Table

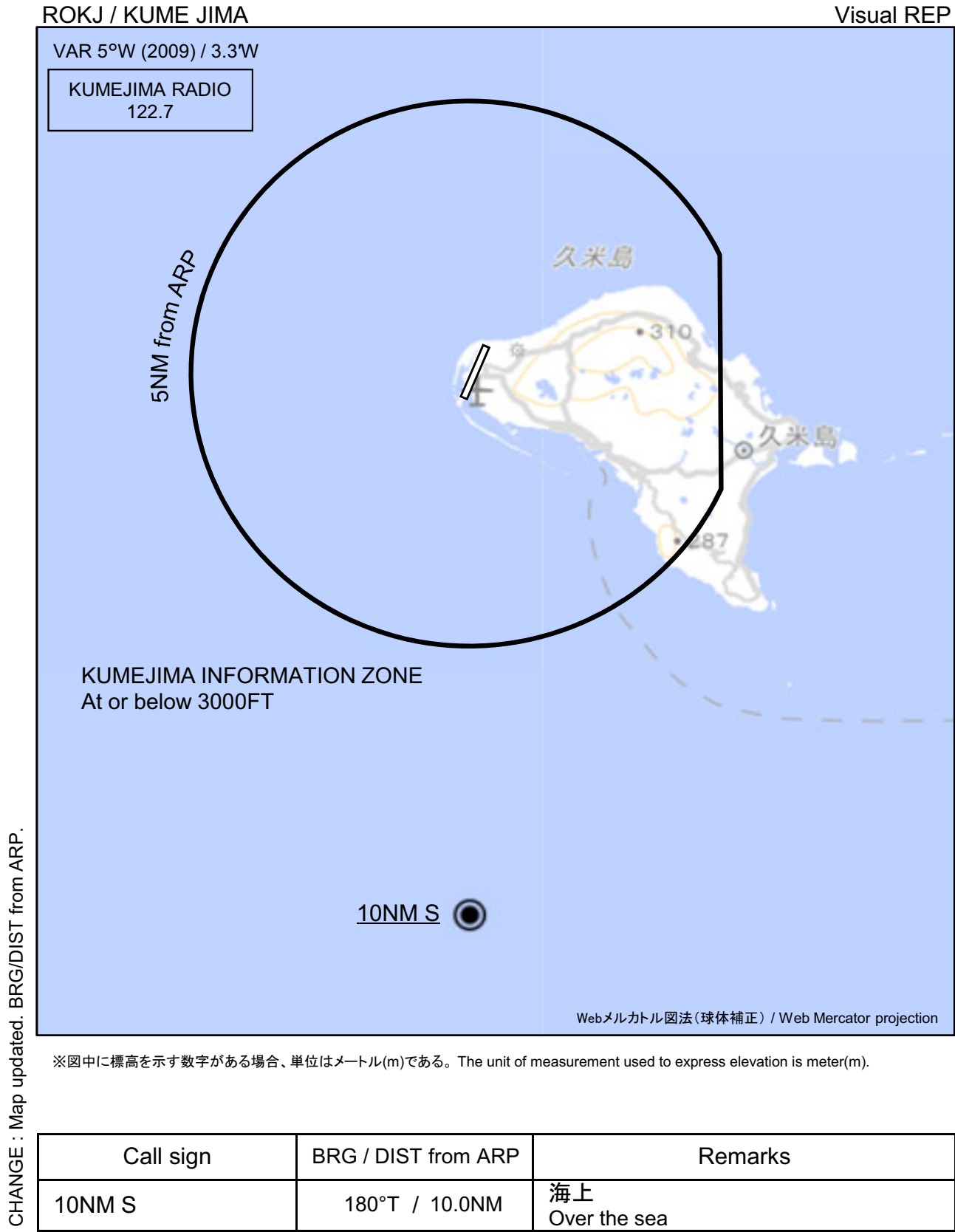
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/ RDH (°/FT)	RNP Value
001	IF	DECKS	-	-	-5.7	-	-	+3000	-	-	-
002	TF	SIKSA	-	343 (337.3)	-5.7	12.6	-	+2800	-220	-	0.3
001	IF	DORIS	-	-	-5.7	-	-	+3000	-	-	-
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 / KUMEJIMA

Minimum Vectoring Altitude CHART

