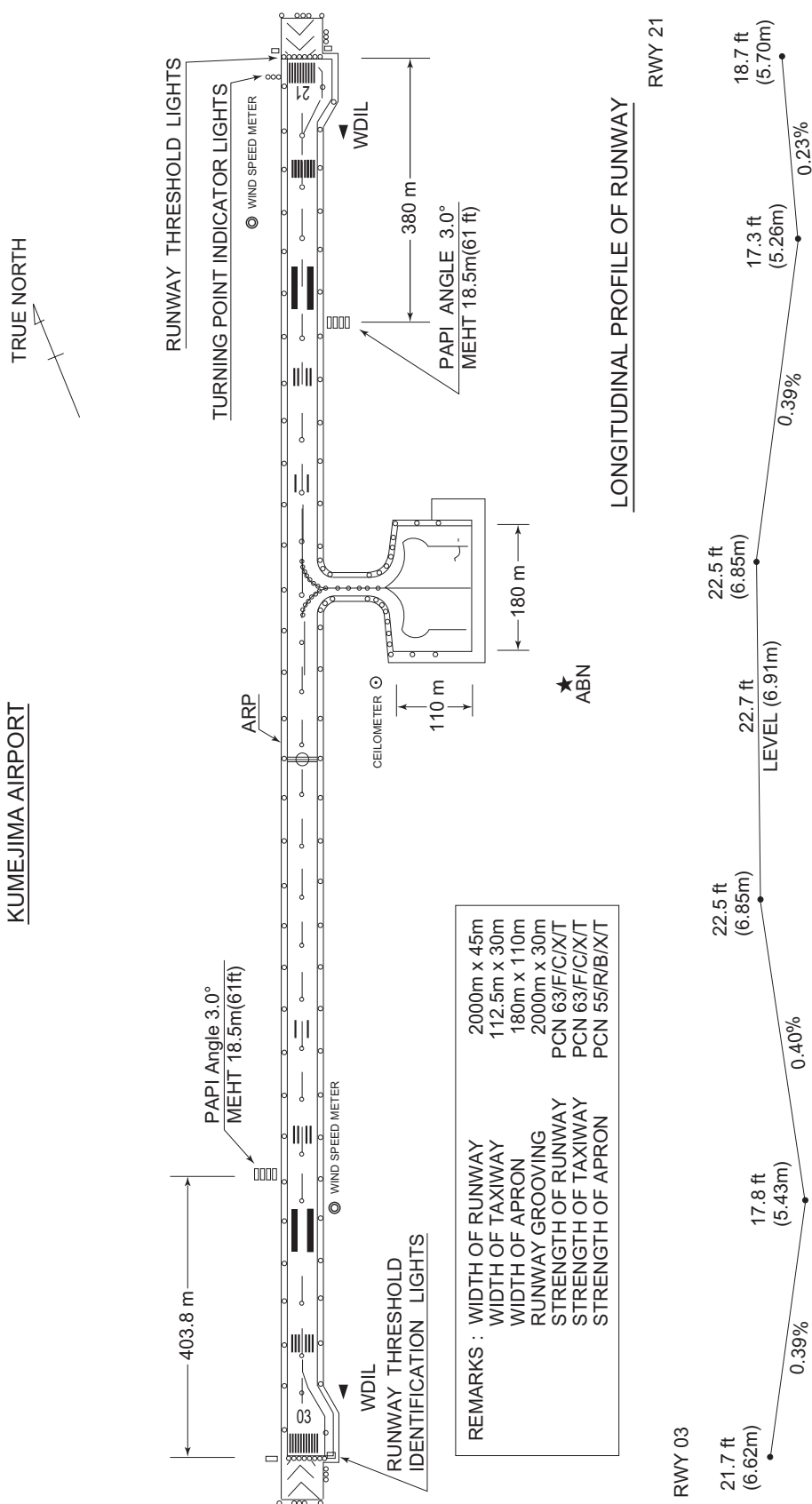


AD CHART

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 FOUR DEPARTURE

RWY03 : Climb RWY HDG to 500FT, turn left HDG144° to intercept and proceed via KXC R189 to DORIS.

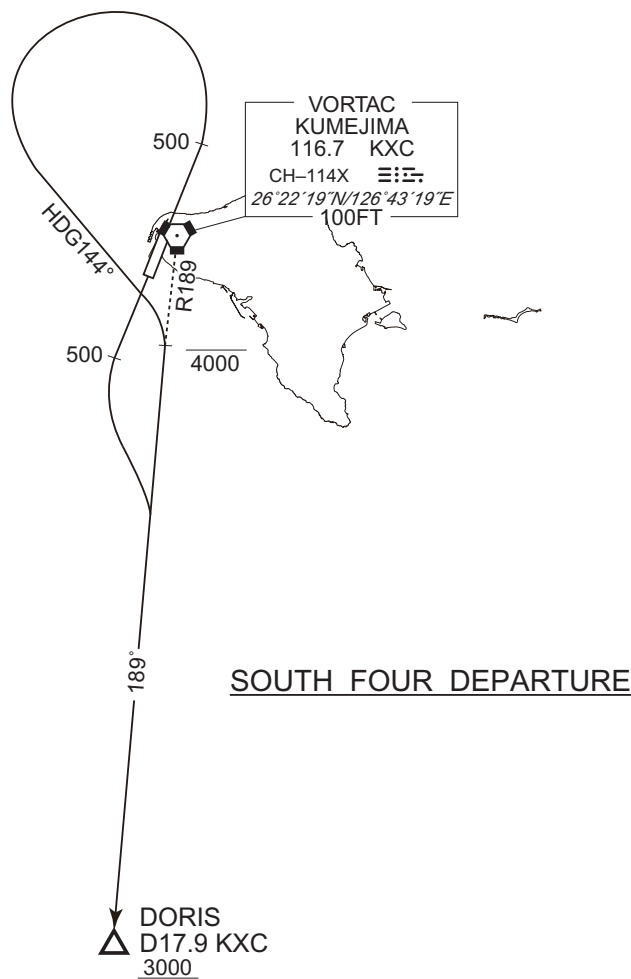
Maintain 4000FT or below until intercepting KXC R189, cross DORIS at or above 3000FT.

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.

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



STANDARD DEPARTURE CHART -INSTRUMENT

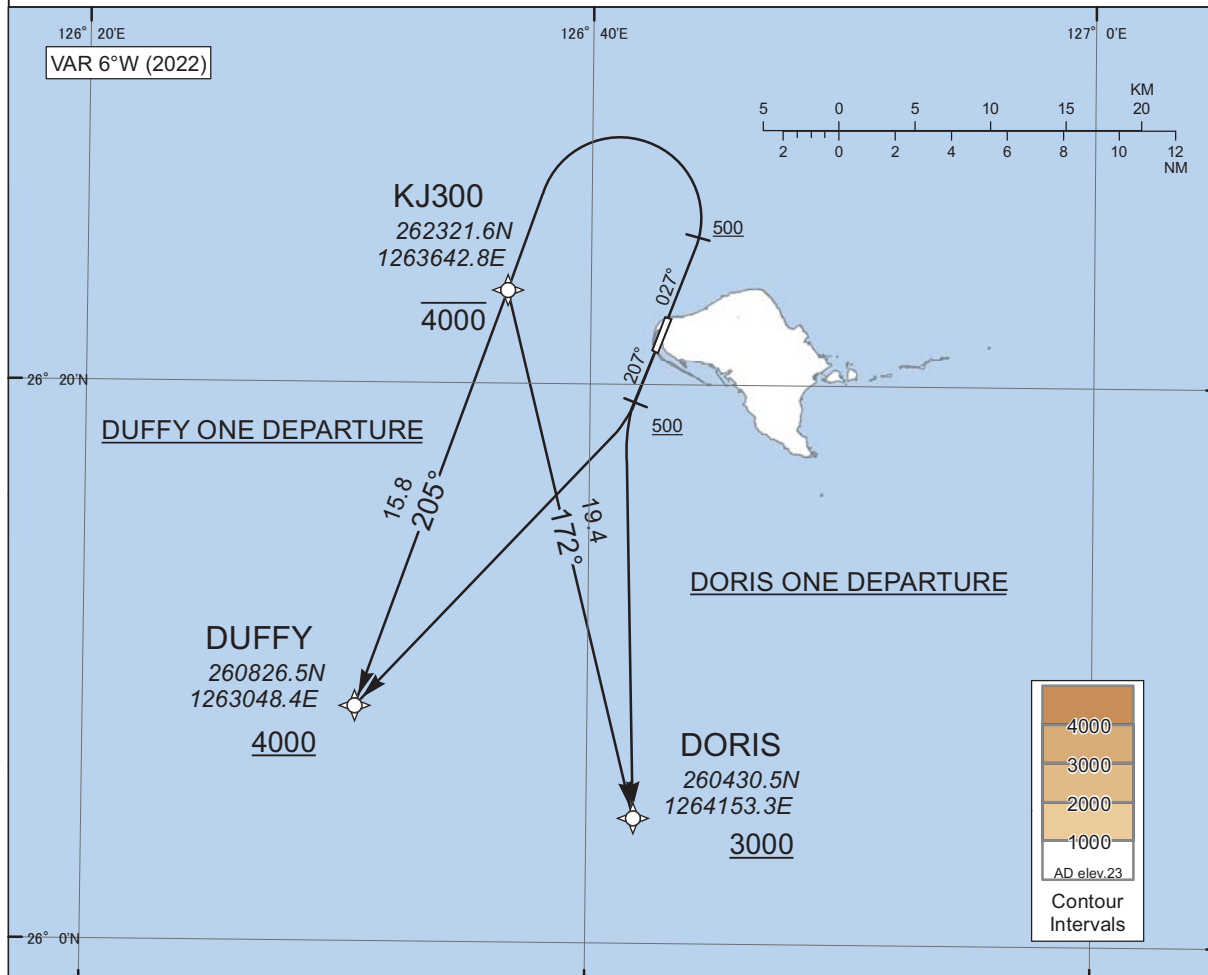
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RNAV SID

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

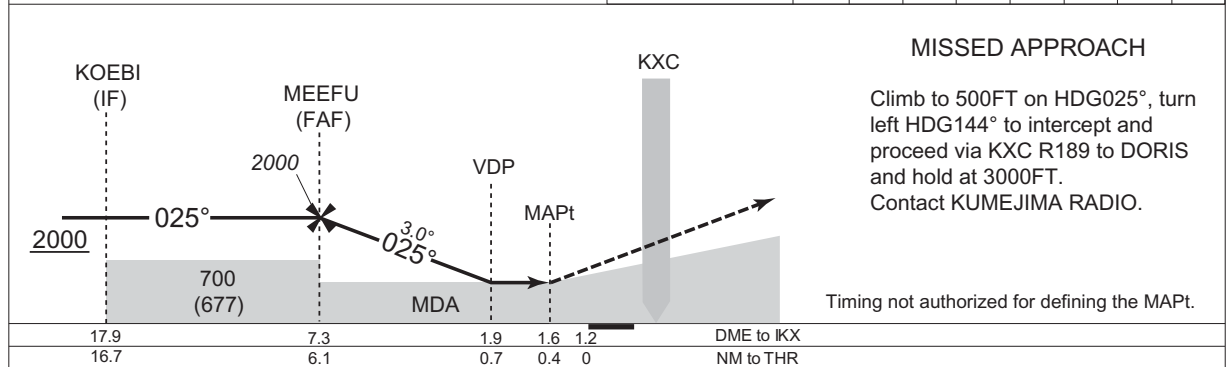
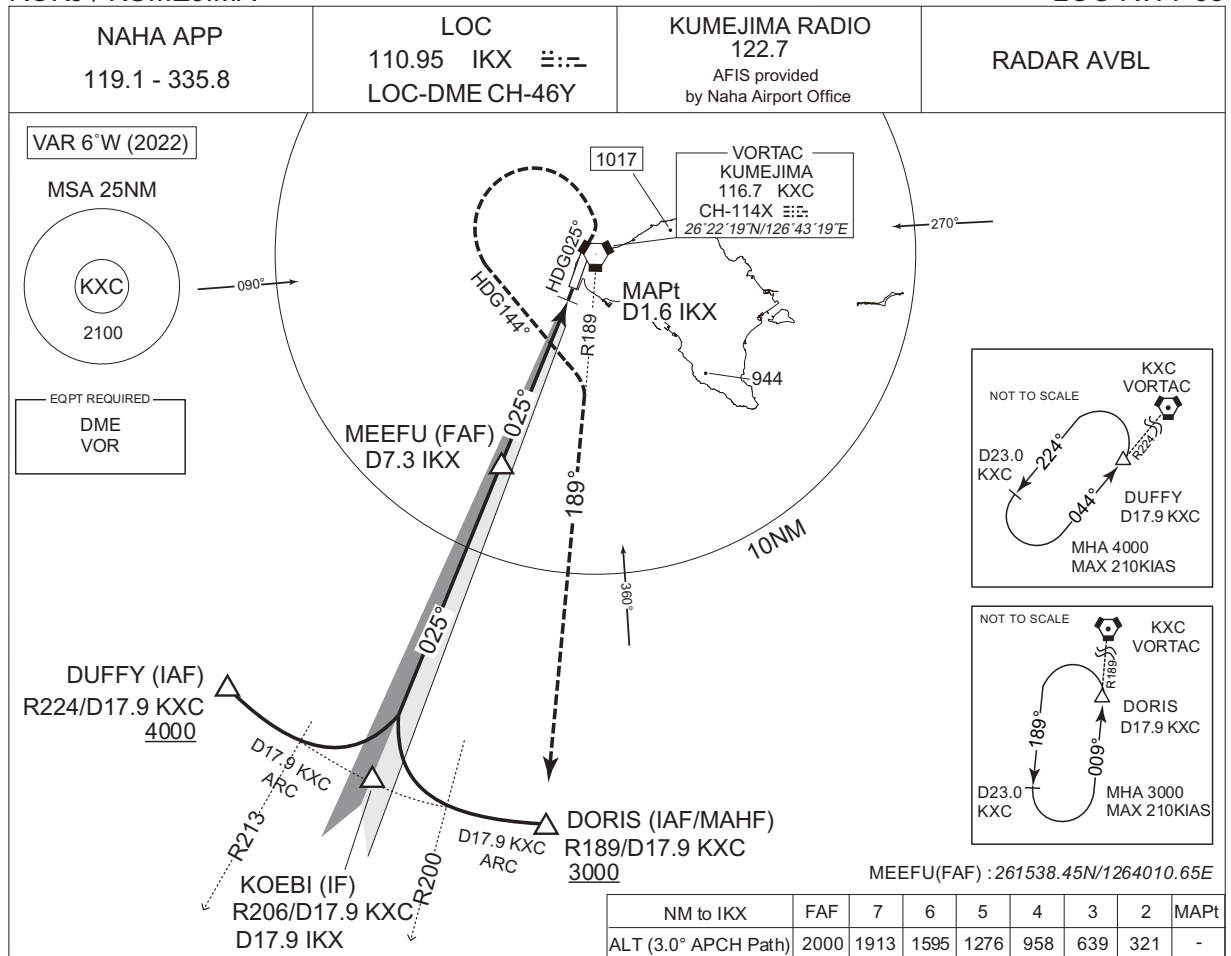
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	207 (201.1)	-5.7	-	-	+500	-	-	Basic RNP1
002	DF	DUFFY	-	-	-5.7	-	R	+4000	-	-	Basic RNP1

CHANGE : New PROC.

INSTRUMENT APPROACH CHART

ROKJ / KUMEJIMA

LOC RWY 03



Missed APCH climb gradient MNM 5.0%

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

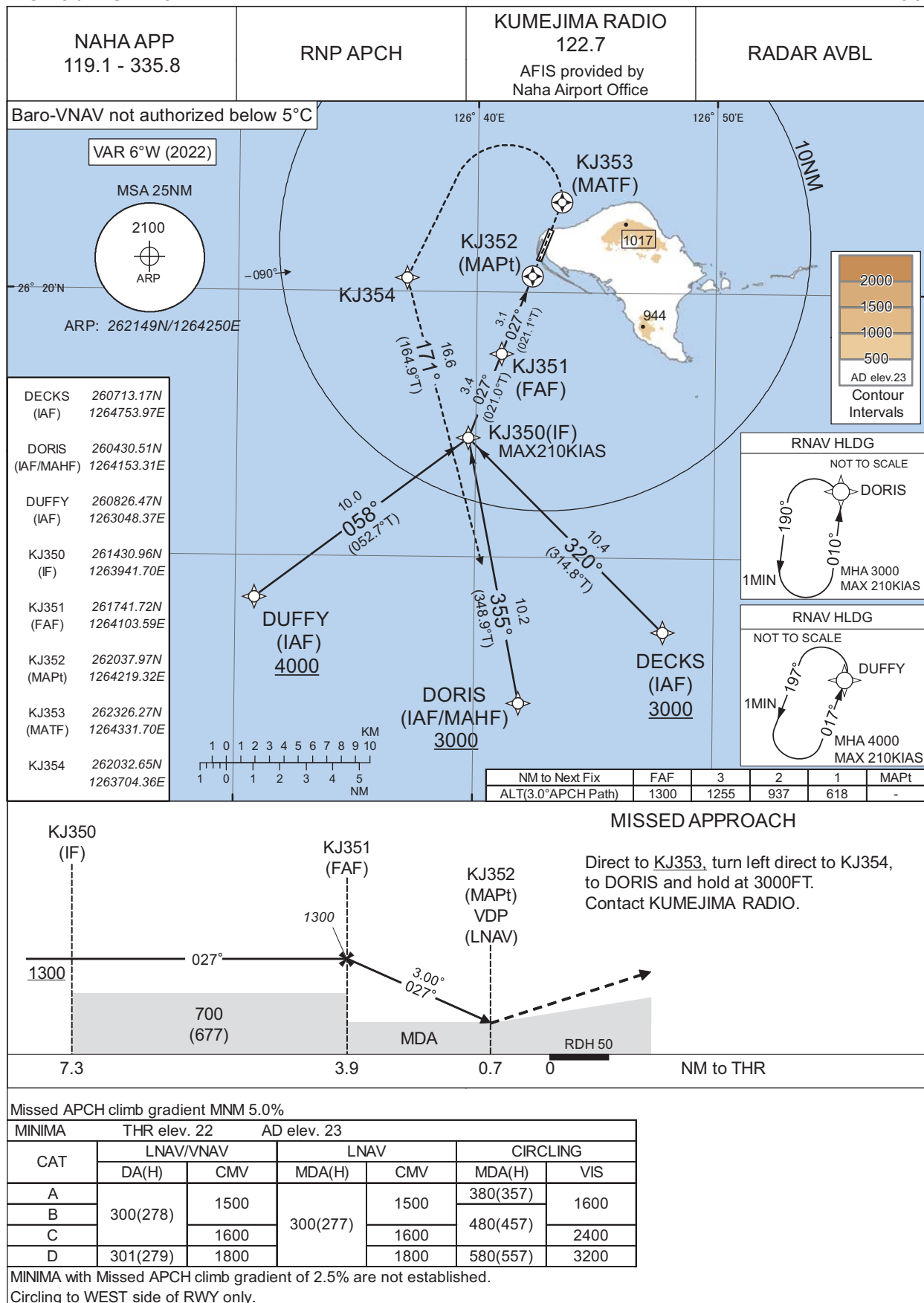
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to WEST side of RWY only.

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

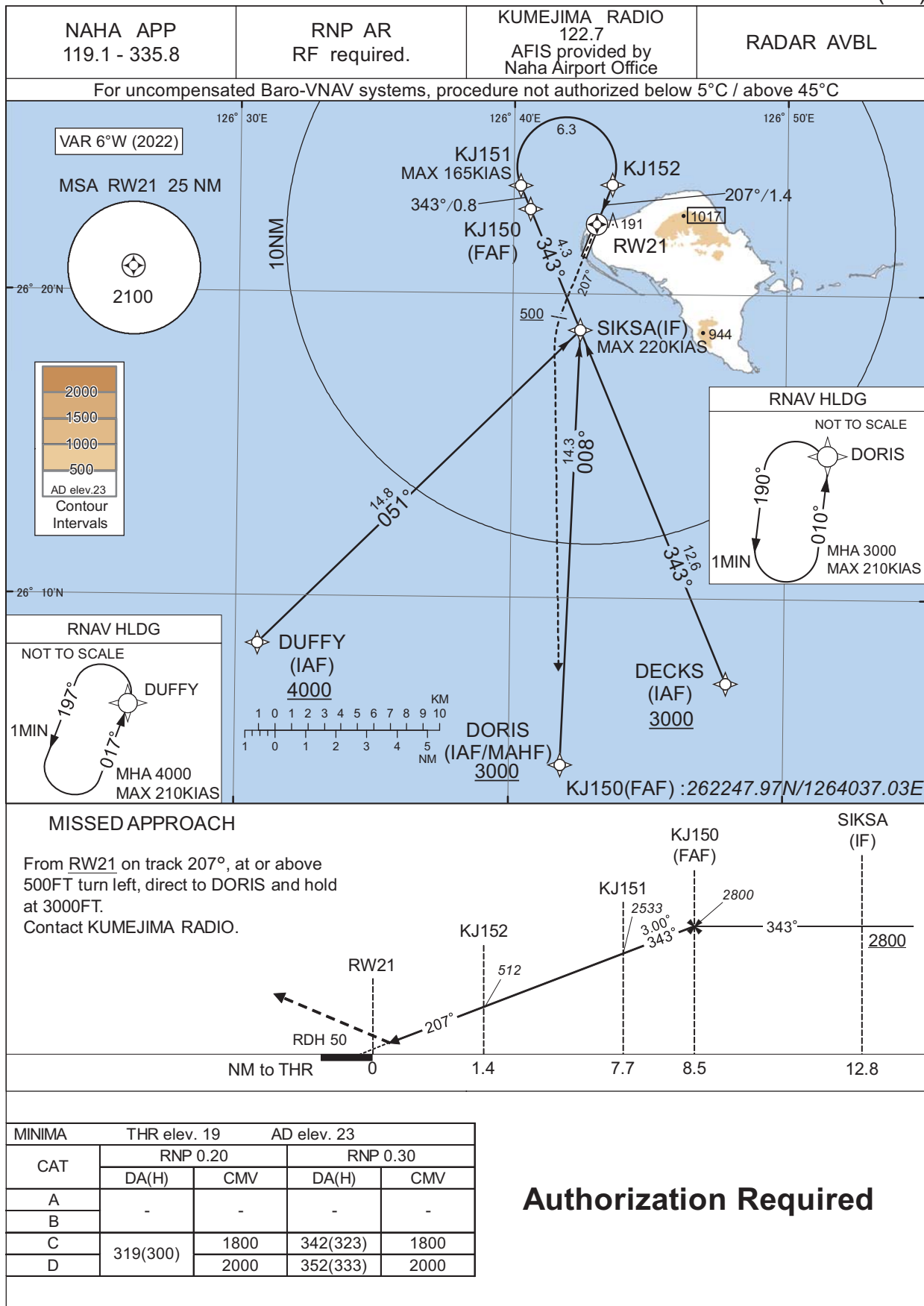


CHANGE : New PROC.

INSTRUMENT APPROACH CHART

ROKJ / KUMEJIMA

RNP RWY21(AR)



CHANGE : New PROC.

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.



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Minimum Vectoring Altitude CHART

