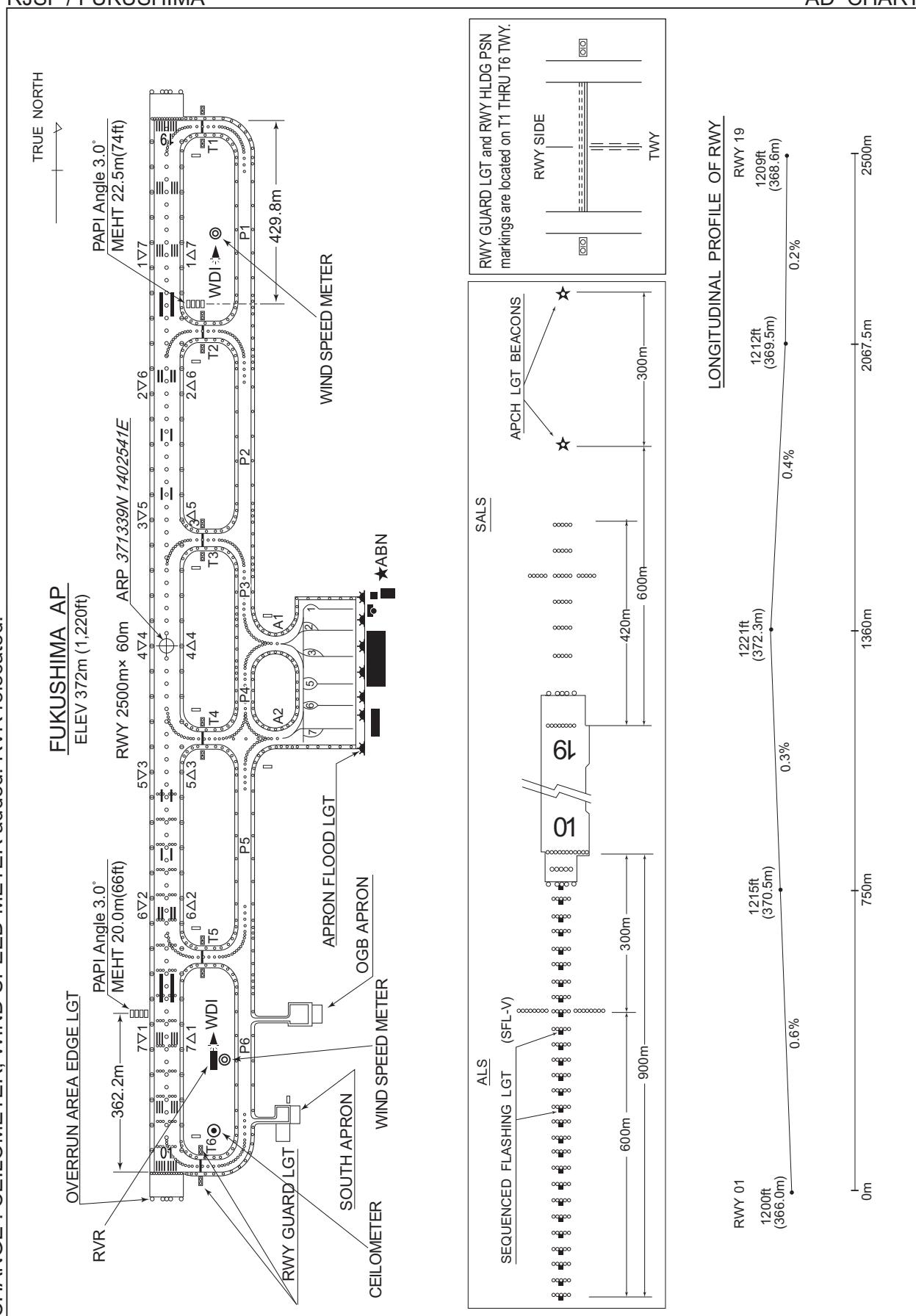


RJSF / FUKUSHIMA

AD CHART

CHANGE: CEILOMETER, WIND SPEED METER added. RVR relocated.



STANDARD DEPARTURE CHART-INSTRUMENT

RJSF / FUKUSHIMA

SID

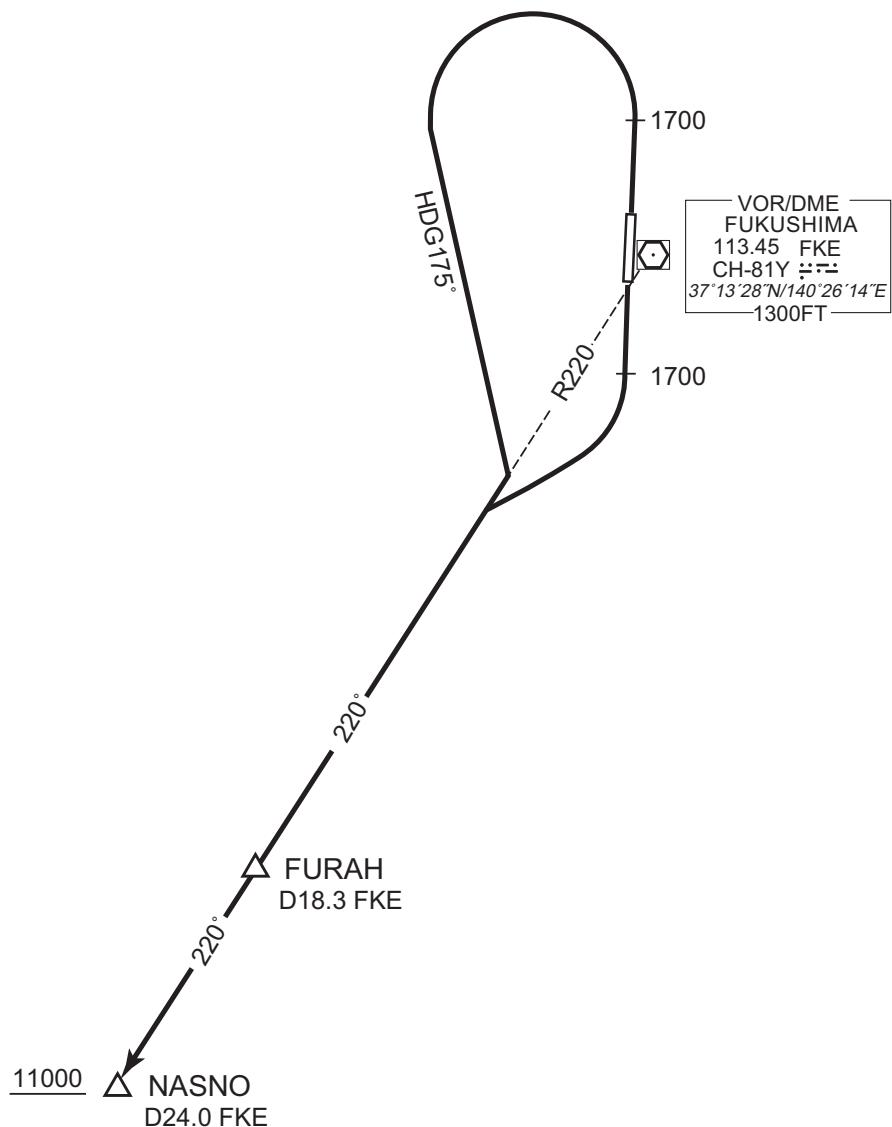
NASNO THREE DEPARTURE

RWY01 : Climb RWY HDG to 1700FT, turn left HDG175°...

RWY19 : Climb RWY HDG to 1700FT, turn right...

...to intercept and proceed via FKE R220 to NASNO via FURAH.
Cross NASNO at or above 11000FT.

CHANGE : Description of PROC name.



STANDARD DEPARTURE CHART-INSTRUMENT

RJSF / FUKUSHIMA

SID

FUKUSHIMA REVERSAL TWO DEPARTURE

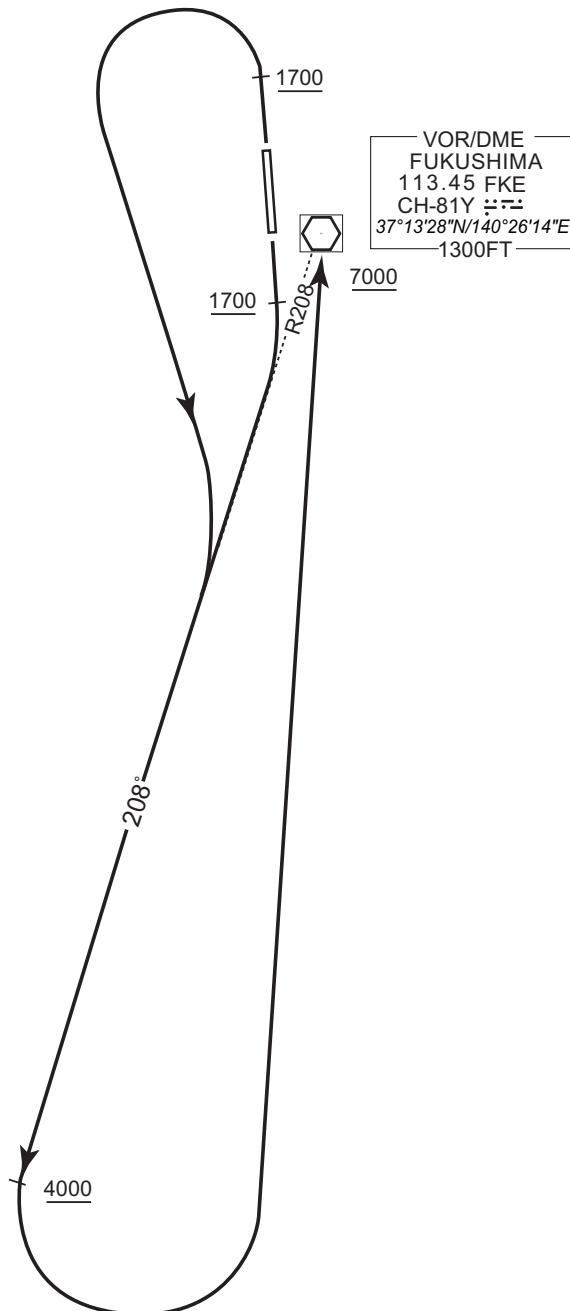
RWY 01 : Climb RWY HDG to 1700FT, turn left, ...

RWY 19 : Climb RWY HDG to 1700FT, turn right, ...

... via FKE R208 to 4000FT, turn left, direct to FKE VOR/DME.

Cross FKE VOR/DME at or above 7000FT.

CHANGE : Description of PROC name.



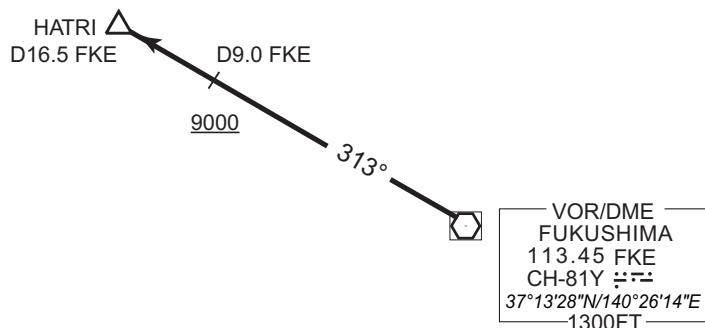
STANDARD DEPARTURE CHART-INSTRUMENT

RJSF / FUKUSHIMA

TRANSITION

HATRI TRANSITION

From over FKE VOR/DME, climb via FKE R313 to HATRI. Cross FKE R313/9.0DME at or above 9000FT.



CHANGE : Description of PROC name.

STANDARD DEPARTURE CHART-INSTRUMENT

RJSF / FUKUSHIMA

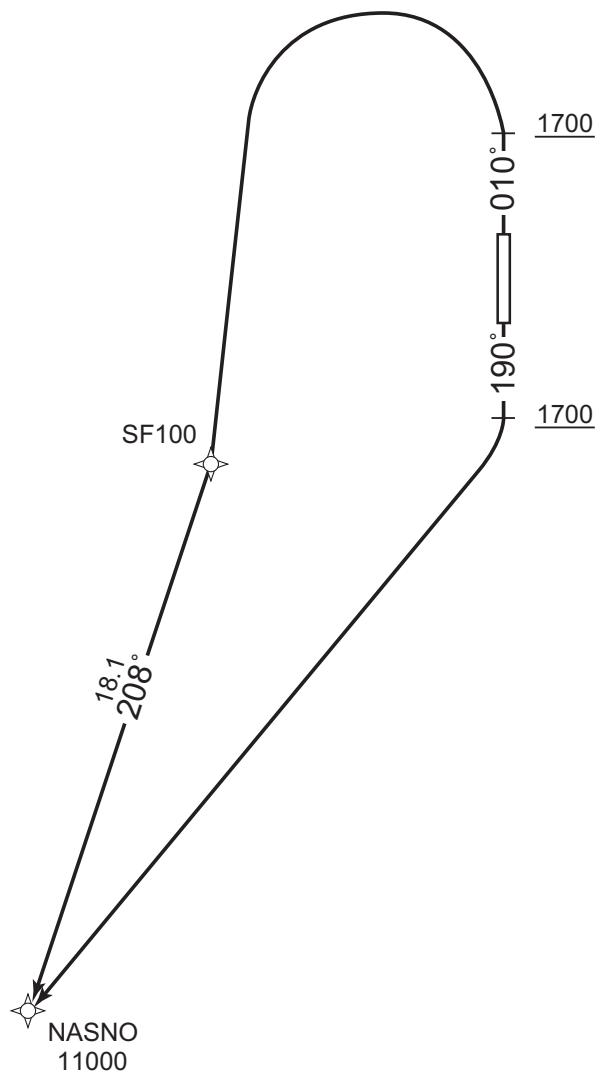
RNAV SID

SOUTH ONE DEPARTURE

RNP1

Note GNSS required.

VAR 8°W



CHANGE : Description of PROC name, VOR/DME.

RWY01 : Climb on HDG010° at or above 1700FT, turn left direct to SF100, to NASNO at or above 11000FT.

RWY19 : Climb on HDG190° at or above 1700FT, turn right direct to NASNO at or above 11000FT.

STANDARD DEPARTURE CHART-INSTRUMENT

RJSF / FUKUSHIMA

RNAV SID

SOUTH ONE DEPARTURE

RWY01

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	-	-	010 (002.2)	-7.8	-	-	+1700	-	-	RNP1
002	DF	SF100	-	-	-7.8	-	L	-	-	-	RNP1
003	TF	NASNO	-	208 (200.1)	-7.8	18.1	-	+11000	-	-	RNP1

RWY19

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	-	-	190 (182.2)	-7.8	-	-	+1700	-	-	RNP1
002	DF	NASNO	-	-	-7.8	-	R	+11000	-	-	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates
SF100	371004.0N/1401801.4E
NASNO	365306.1N/1401016.3E

CHANGE : Waypoint Coordinates added.

STANDARD DEPARTURE CHART-INSTRUMENT

RJSF / FUKUSHIMA

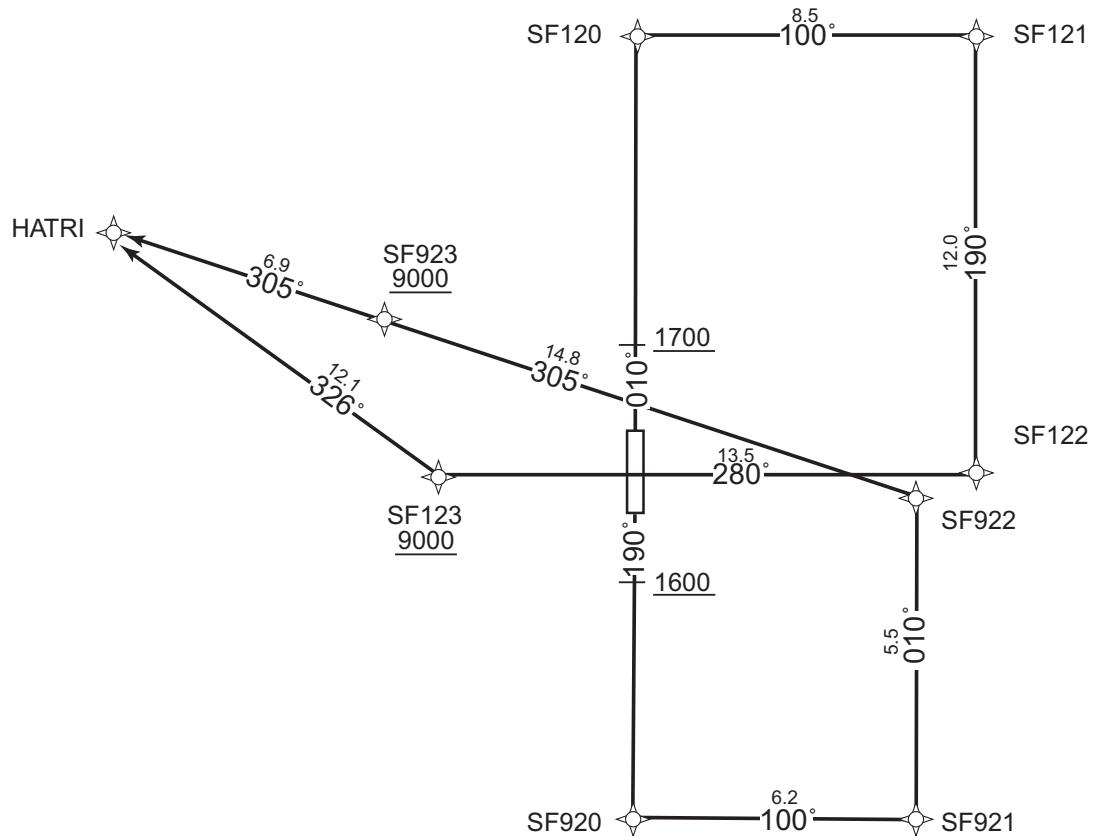
RNAV SID

WEST ONE DEPARTURE

RNP1

Note GNSS required.

VAR 8°W



CHANGE : Description of PROC name, VOR/DME.

RWY01 : Climb on HDG010° at or above 1700FT, direct to SF120, to SF121, to SF122, to SF123 at or above 9000FT, to HATRI.

RWY19 : Climb on HDG190° at or above 1600FT, direct to SF920, to SF921, to SF922, to SF923 at or above 9000FT, to HATRI.

Note RWY19 : 3.9% climb gradient required up to 2800FT.

OBST ALT 2577FT located at 7.1NM 144° FM end of RWY19.

STANDARD DEPARTURE CHART-INSTRUMENT

RJSF / FUKUSHIMA

RNAV SID

WEST ONE DEPARTURE

RWY01

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	-	-	010 (002.2)	-7.8	-	-	+1700	-	-	RNP1
002	DF	SF120	-	-	-7.8	-	-	-	-	-	RNP1
003	TF	SF121	-	100 (092.2)	-7.8	8.5	-	-	-	-	RNP1
004	TF	SF122	-	190 (182.3)	-7.8	12.0	-	-	-	-	RNP1
005	TF	SF123	-	280 (272.3)	-7.8	13.5	-	+9000	-	-	RNP1
006	TF	HATRI	-	326 (318.2)	-7.8	12.1	-	-	-	-	RNP1

RWY19

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	-	-	190 (182.2)	-7.8	-	-	+1600	-	-	RNP1
002	DF	SF920	-	-	-7.8	-	-	-	-	-	RNP1
003	TF	SF921	-	100 (092.2)	-7.8	6.2	-	-	-	-	RNP1
004	TF	SF922	-	010 (002.3)	-7.8	5.5	-	-	-	-	RNP1
005	TF	SF923	-	305 (297.6)	-7.8	14.8	-	+9000	-	-	RNP1
006	TF	HATRI	-	305 (297.4)	-7.8	6.9	-	-	-	-	RNP1

CHANGE : Waypoint Coordinates added.

Waypoint Coordinates

Waypoint Identifier	Coordinates
SF120	372549.9N / 1402615.9E
SF121	372529.7N / 1403655.9E
SF122	371329.2N / 1403619.5E
SF123	371400.6N / 1401925.7E
SF920	370746.0N / 1402523.8E
SF921	370731.4N / 1403308.8E
SF922	371301.7N / 1403325.2E
SF923	371950.3N / 1401658.9E
HATRI	372259.6N / 1400918.9E

STANDARD ARRIVAL CHART-INSTRUMENT

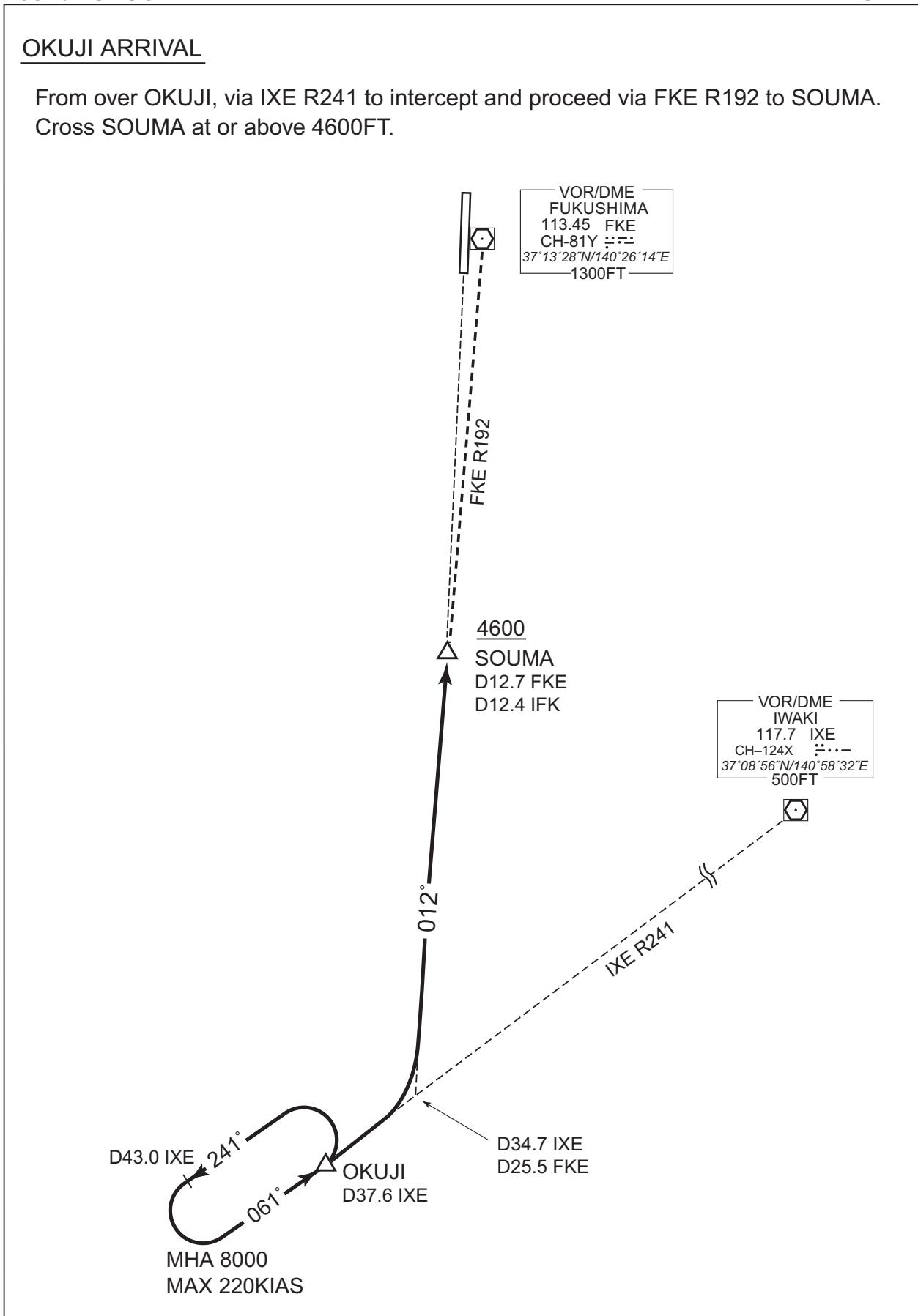
RJSF / FUKUSHIMA

STAR

OKUJI ARRIVAL

From over OKUJI, via IXE R241 to intercept and proceed via FKE R192 to SOUMA. Cross SOUMA at or above 4600FT.

CHANGE : Description of PROC name.



STANDARD ARRIVAL CHART-INSTRUMENT

RJSF / FUKUSHIMA

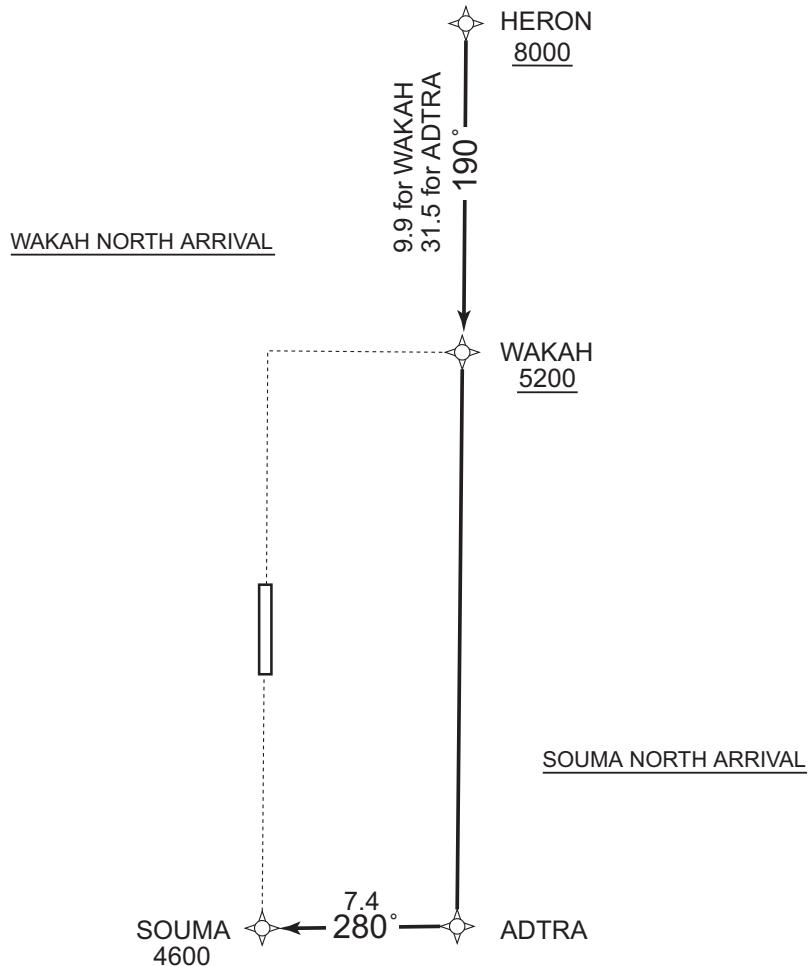
RNAV STAR RWY01/19

WAKAH NORTH ARRIVAL
SOUMA NORTH ARRIVAL

RNP1

Note GNSS required.

VAR 8°W



STANDARD ARRIVAL CHART-INSTRUMENT

RJSF / FUKUSHIMA

RNAV STAR RWY01/19

WAKAH NORTH ARRIVAL

From HERON at or above 8000FT, to WAKAH at or above 5200FT.

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	HERON	-	-	-7.8	-	-	+8000	-	-	RNP1
002	TF	WAKAH	-	190 (182.3)	-7.8	9.9	-	+5200	-	-	RNP1

SOUMA NORTH ARRIVAL

From HERON at or above 8000FT, to ADTRA, to SOUMA at or above 4600FT.

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	HERON	-	-	-7.8	-	-	+8000	-	-	RNP1
002	TF	ADTRA	-	190 (182.3)	-7.8	31.5	-	-	-	-	RNP1
003	TF	SOUMA	-	280 (272.3)	-7.8	7.4	-	+4600	-	-	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates
HERON	373155.9N / 1403555.6E
WAKAH	372200.3N / 1403525.6E
ADTRA	370027.6N / 1403420.9E
SOUMA	370045.1N / 1402503.6E

CHANGE : Waypoint Coordinates added.

STANDARD ARRIVAL CHART-INSTRUMENT

RJSF / FUKUSHIMA

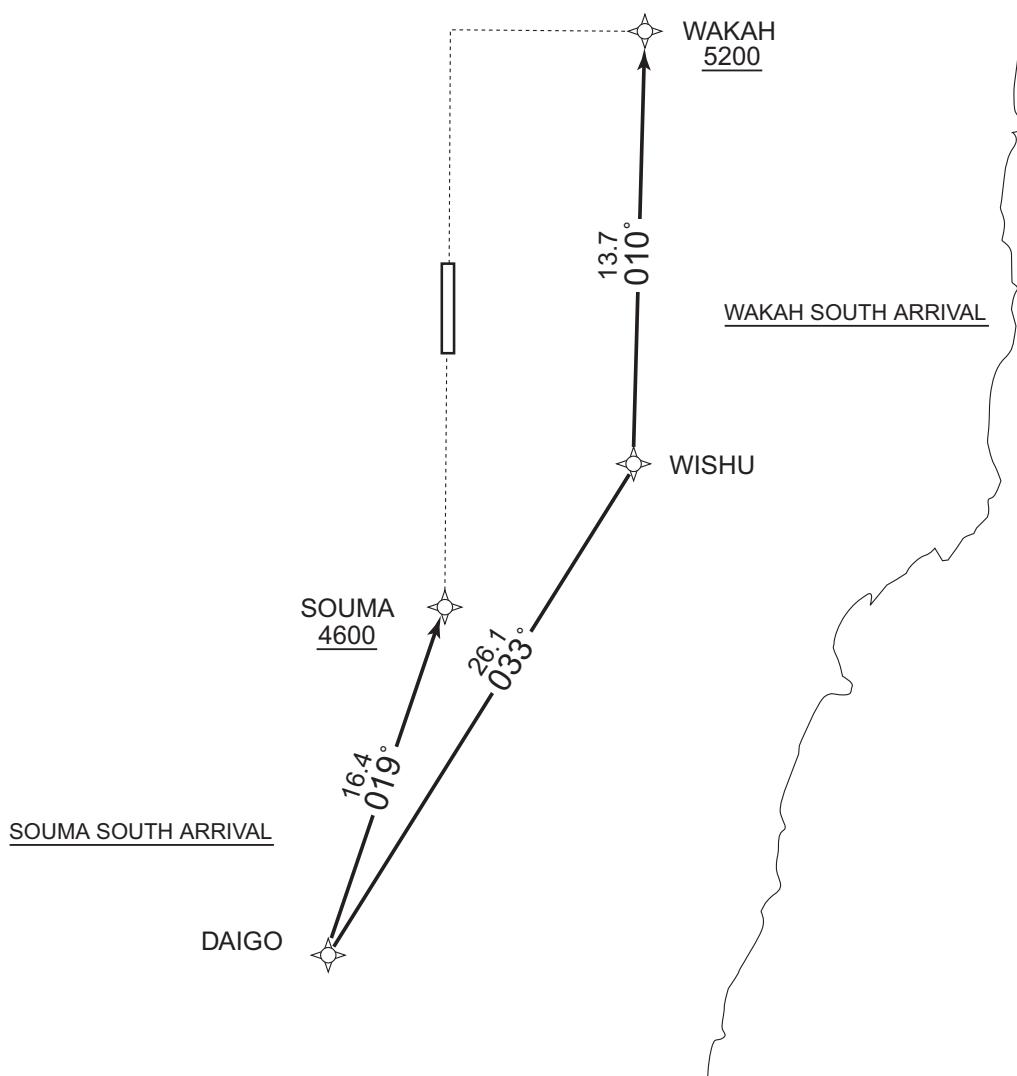
RNAV STAR RWY01/19

WAKAH SOUTH ARRIVAL
SOUMA SOUTH ARRIVAL

RNP1

Note GNSS required.

VAR 8°W



CHANGE : Description of VOR/DME, ALT restriction at WAKAH, SOUMA.

STANDARD ARRIVAL CHART-INSTRUMENT

RJSF / FUKUSHIMA

RNAV STAR RWY01/19

WAKAH SOUTH ARRIVAL

From DAIGO, to WISHU, to WAKAH at or above 5200FT.

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	DAIGO	-	-	-7.8	-	-	-	-	-	RNP1
002	TF	WISHU	-	033 (024.8)	-7.8	26.1	-	-	-	-	RNP1
003	TF	WAKAH	-	010 (002.3)	-7.8	13.7	-	+5200	-	-	RNP1

SOUMA SOUTH ARRIVAL

From DAIGO, to SOUMA at or above 4600FT.

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	DAIGO	-	-	-7.8	-	-	-	-	-	RNP1
002	TF	SOUMA	-	019 (011.4)	-7.8	16.4	-	+4600	-	-	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates
DAIGO	364439.7N / 1402059.5E
WISHU	370821.2N / 1403444.6E
WAKAH	372200.3N / 1403525.6E
SOUMA	370045.1N / 1402503.6E

CHANGE : Waypoint Coordinates added.

INSTRUMENT APPROACH CHART

RJSF / FUKUSHIMA

ILS Z or LOC Z RWY01

TOKYO CONTROL
118.9 - 276.8
127.65 - 303.4

ILS-LOC 110.5 IFK
ILS-GP 329.6
ILS-DME CH-42X

FUKUSHIMA RADIO
118.05 - 126.2

NO RADAR

VAR 8°W

MSA 25NM

EQPT REQUIRED
DME
VOR

VOR/DME
FUKUSHIMA
113.45 FKE
CH-81Y
37°13'28"N/140°26'14"E

Turn initiation within D11.0 FKE MAX turning speed 200KIAS

ABKMA(FAF) : 370545.41N/1402518.00E

NM to IFK

ALT(3.0° APCH Path)	NM to IFK	MAPt	2	3	4	5	6	7	FAF
	1837	2156	2474	2793	3111	3430	3545		

MISSED APPROACH
Climb to 3000FT on HDG010°, turn left, direct to FKE VOR/DME and hold at 4700FT.
Contact FUKUSHIMA RADIO.

Timing not authorized for defining the MAPt.

Turn initiation within D11.0 FKE

Missed APCH climb gradient MNM 4.0%

MINIMA		THR elev. 1200		AD elev. 1220		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A			900		1600	
B	1400 (200)	550	1560 (360)	1000	1670(450)	
C					2400	
D			1400	1770(550)	3200	

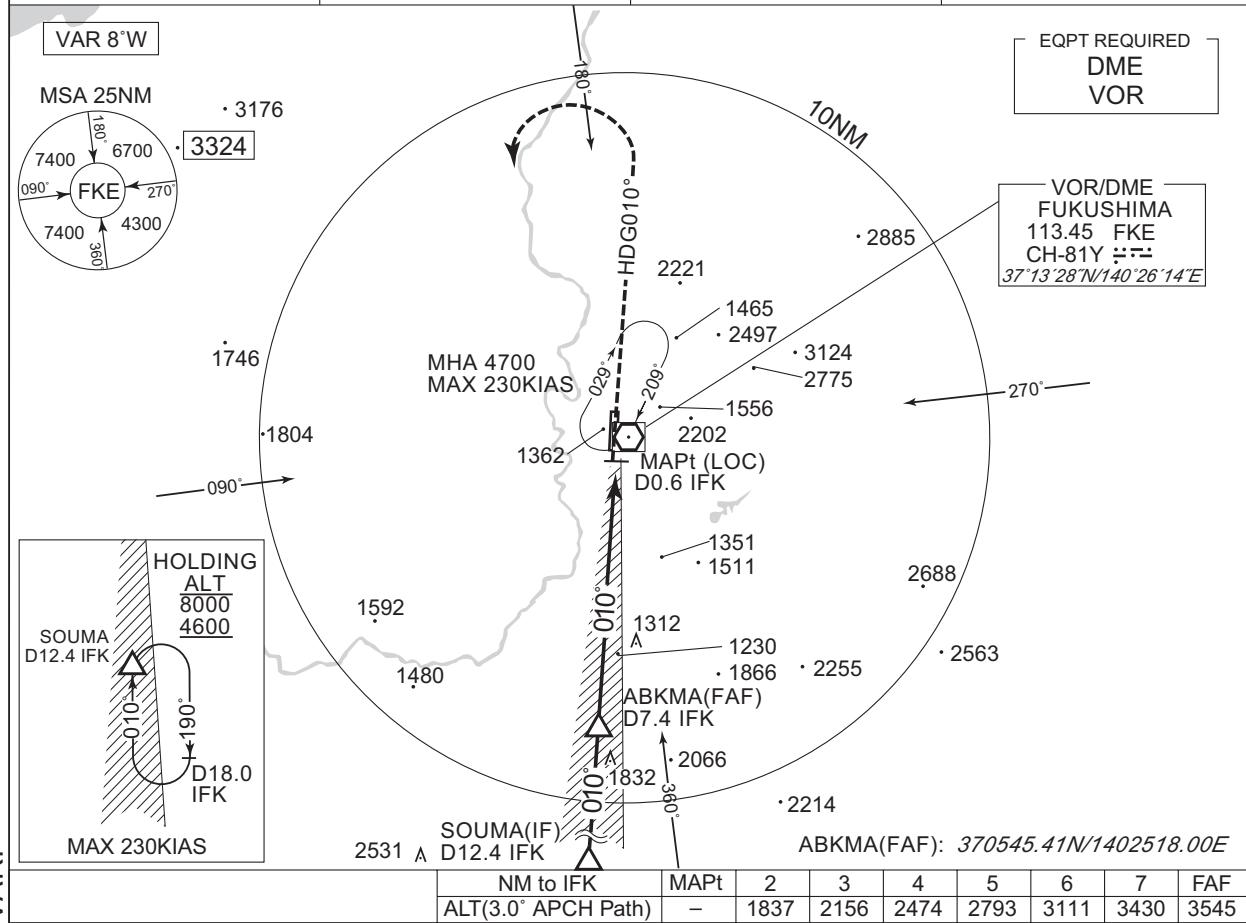
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to WEST side of RWY only.

INSTRUMENT APPROACH CHART

RJSF / FUKUSHIMA

ILS Y or LOC Y RWY01

TOKYO CONTROL 118.9 - 276.8 127.65 - 303.4	ILS-LOC 110.5 IFK ILS-GP 329.6 329.6 ILS-DME CH-42X	FUKUSHIMA RADIO 118.05 - 126.2	NO RADAR
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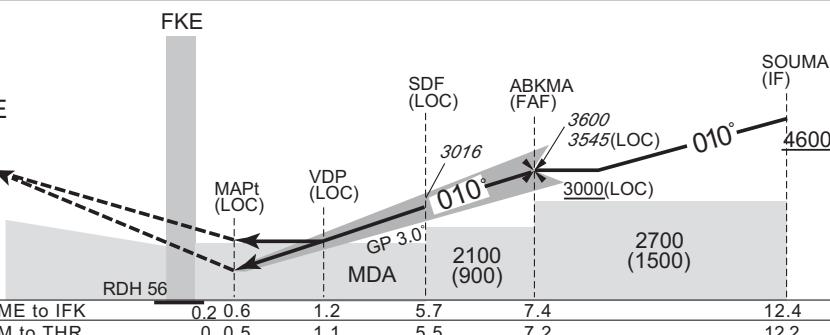


MISSED APPROACH

Climb to 3000FT on HDG010°,
turn left, direct to FKE VOR/DME
and hold at 4700FT.

Contact EUKIISHIMA RADIO

Timing not authorized for defining the MAPt

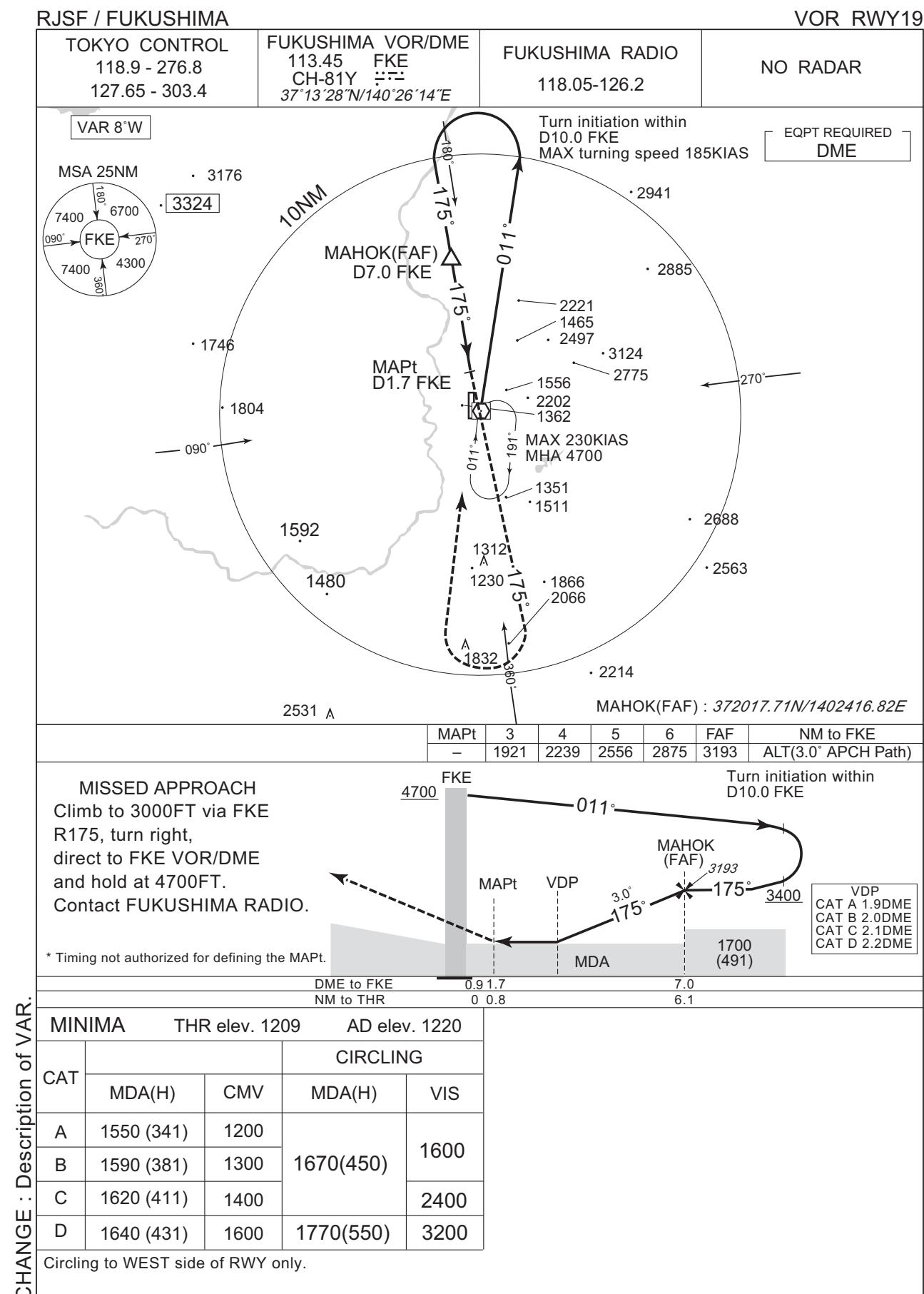


Missed APCH climb gradient MNM 4.0%		NM to THR	0	0.5	1.1	5.5
MINIMA		THR elev. 1200	AD elev. 1220			
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	1400 (200)	550	1560 (360)	900	1670(450)	1600
B				1000		2400
C				1400	1770(550)	3200
D						

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

MINIMA with Missed Approach climb gradient
Circling to WEST side of RWY only

INSTRUMENT APPROACH CHART

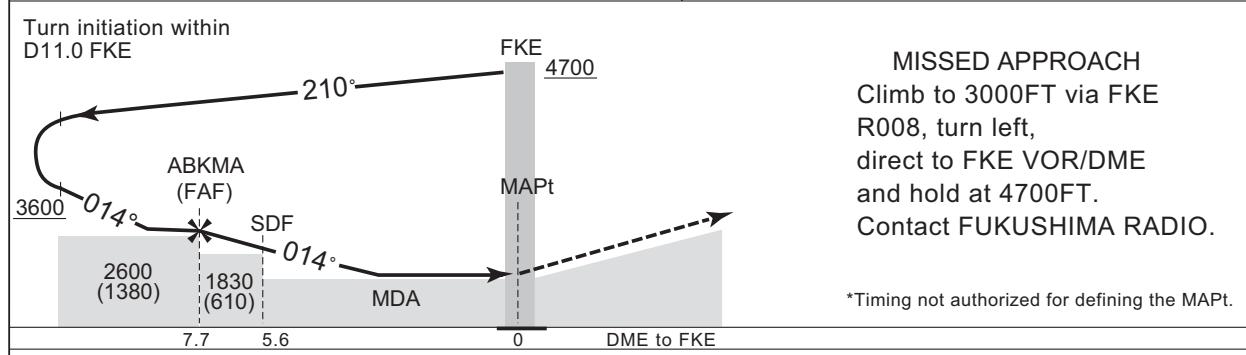
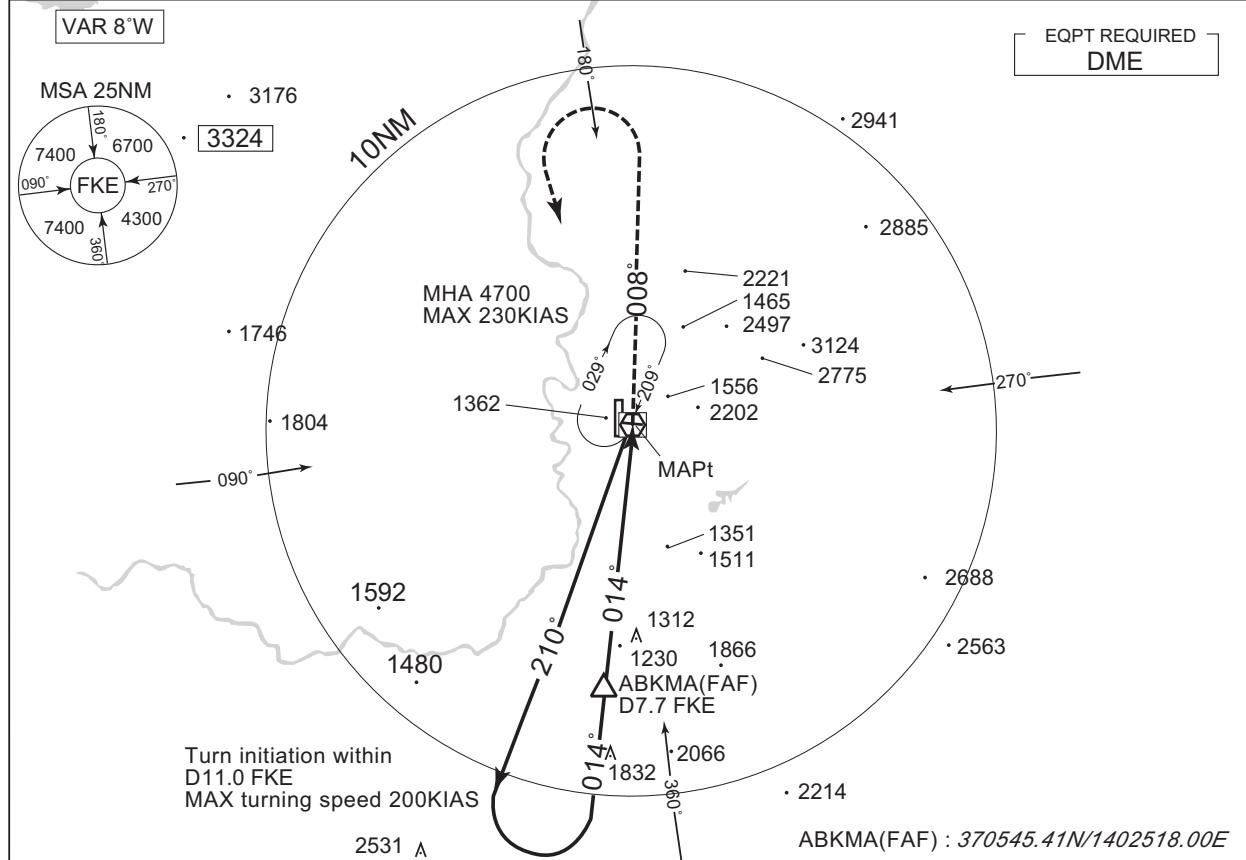


INSTRUMENT APPROACH CHART

RJSF / FUKUSHIMA

VORA

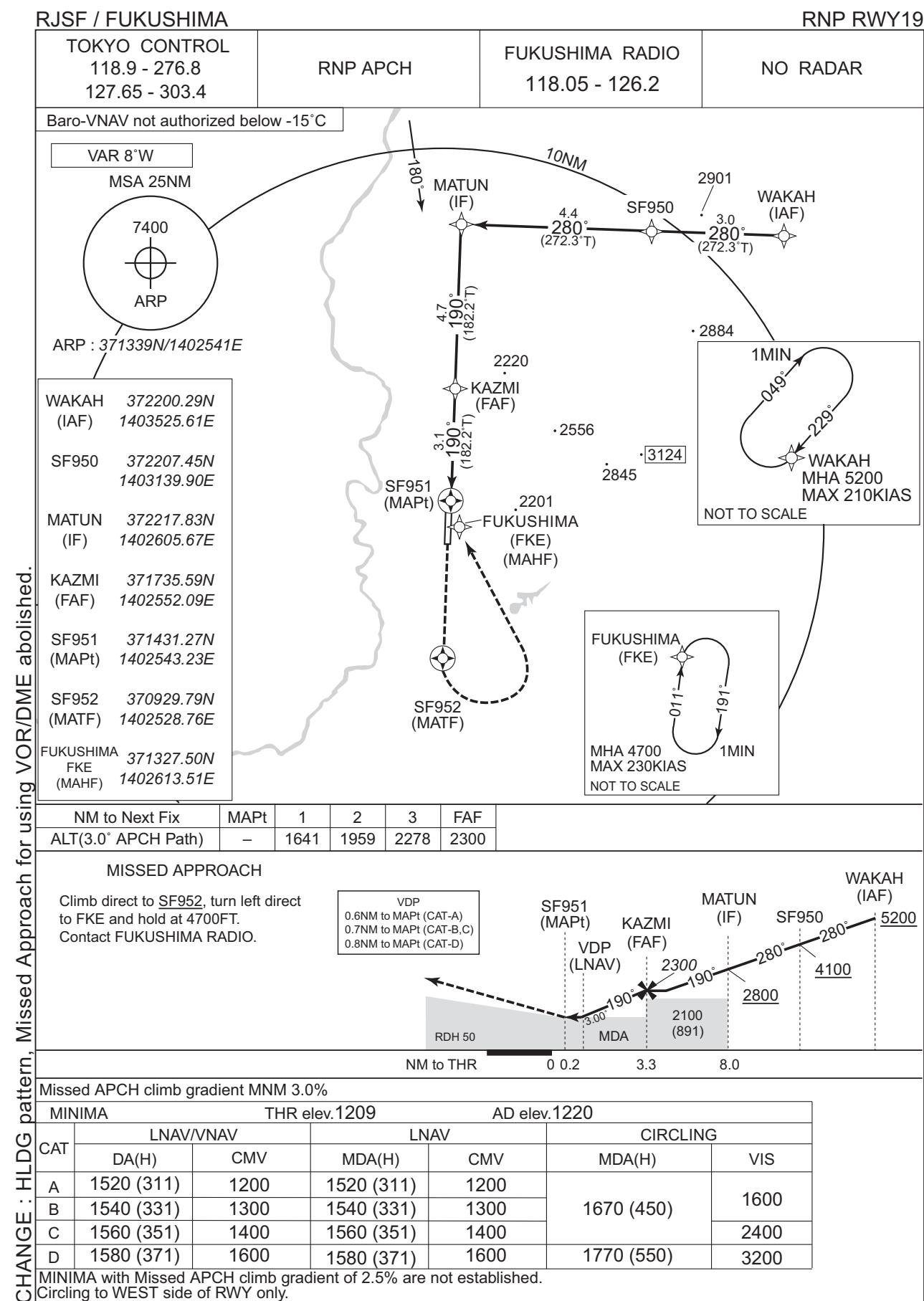
TOKYO CONTROL 118.9 - 276.8 127.65 - 303.4	FUKUSHIMA VOR/DME 113.45 FKE CH-81Y  37°13'28"N 140°26'14"E	FUKUSHIMA RADIO 118.05 - 126.2	NO RADAR
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MINIMA		AD elev. 1220
CAT	CIRCLING	
	MDA(H)	VIS
A	1680 (460)	1600
B		2400
C		2400
D	1770 (550)	3200

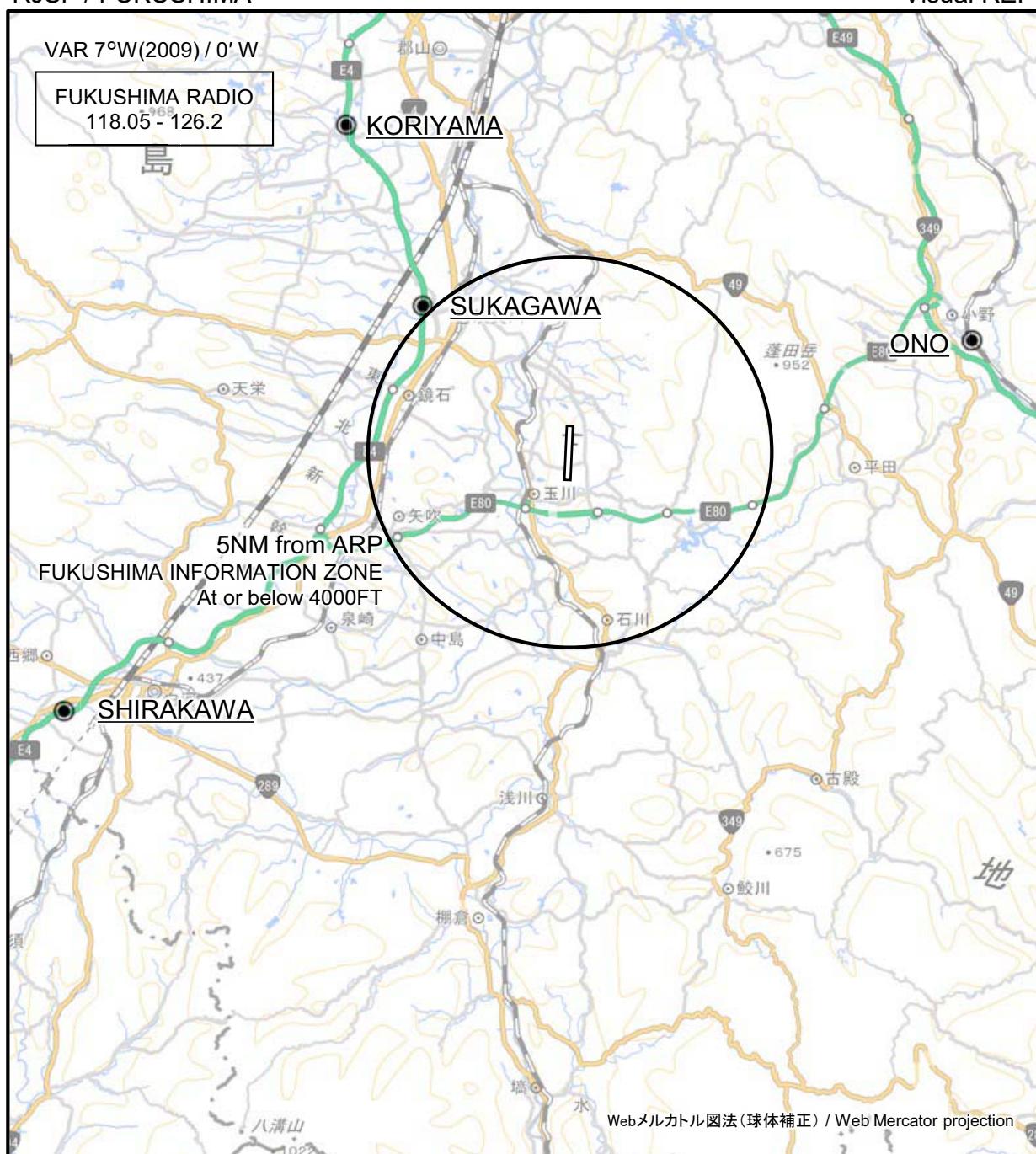
Circling to WEST side of RWY only.

INSTRUMENT APPROACH CHART



RJSF / FUKUSHIMA

Visual REP



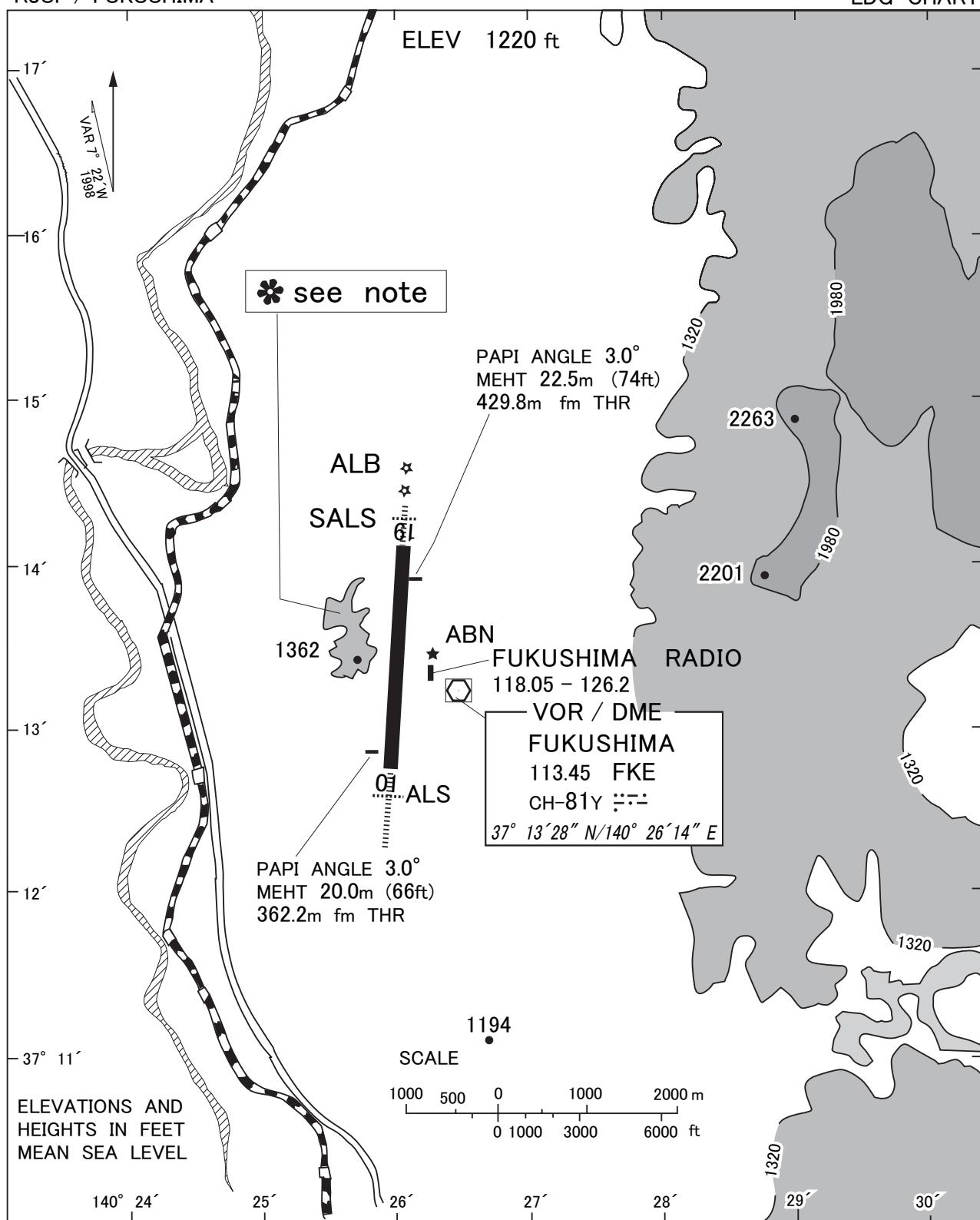
※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

CHANGE : Map updated. BRG/DIST from ARP.

Call sign	BRG / DIST from ARP	Remarks
郡山 Koriyama	326°T / 10.1NM	郡山南IC Interchange
須賀川 Sukagawa	316°T / 5.3NM	須賀川IC Interchange
小野 Ono	074°T / 10.4NM	JR小野新町駅 Station
白河 Shirakawa	242°T / 14.3NM	白河IC Interchange

RJSF / FUKUSHIMA

LDG CHART



Note : RWY may be invisible on down-wind leg of westside traffic pattern
depending on altitude.

CHANGE : Shape of Minimum Vectoring Altitude.

