

RJSF / FUKUSHIMA

AD CHART



STANDARD DEPARTURE CHART-INSTRUMENT

RJSF / FUKUSHIMA

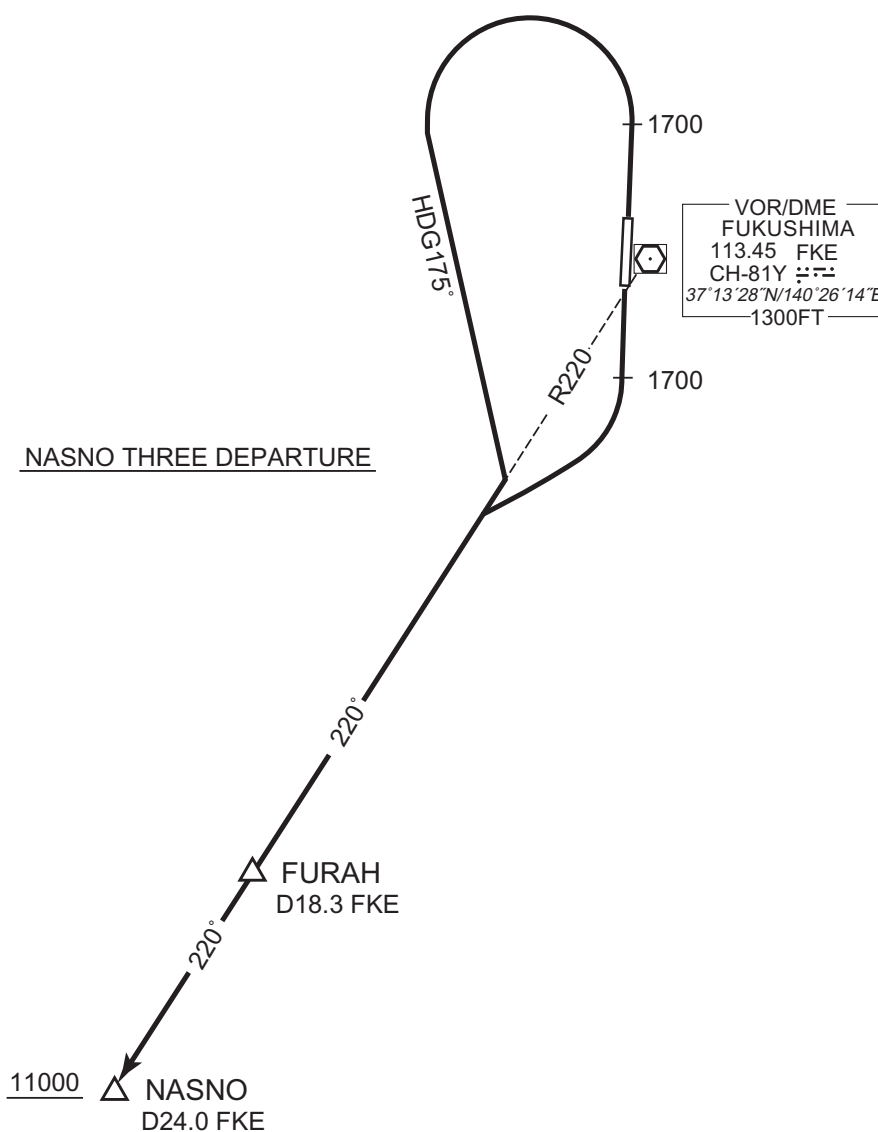
SID

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 : PROC renamed. PROC course.

## 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 : PROC renamed. Radial FM FKE.

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 : DME FM FKE added(HATRI).

## STANDARD DEPARTURE CHART-INSTRUMENT

RJSF / FUKUSHIMA

RNAV SID

## SOUTH ONE DEPARTURE

Basic RNP1

Note GNSS required.

VAR 8°W (2016)



## SOUTH ONE DEPARTURE

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.

CHANGE : FIX symbol(NASNO).

## 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	—	—	Basic RNP1
002	DF	SF100	—	—	-7.8	—	L	—	—	—	Basic RNP1
003	TF	NASNO	—	208 (200.1)	-7.8	18.1	—	+11000	—	—	Basic 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	—	—	Basic RNP1
002	DF	NASNO	—	—	-7.8	—	R	+11000	—	—	Basic RNP1

## STANDARD DEPARTURE CHART-INSTRUMENT

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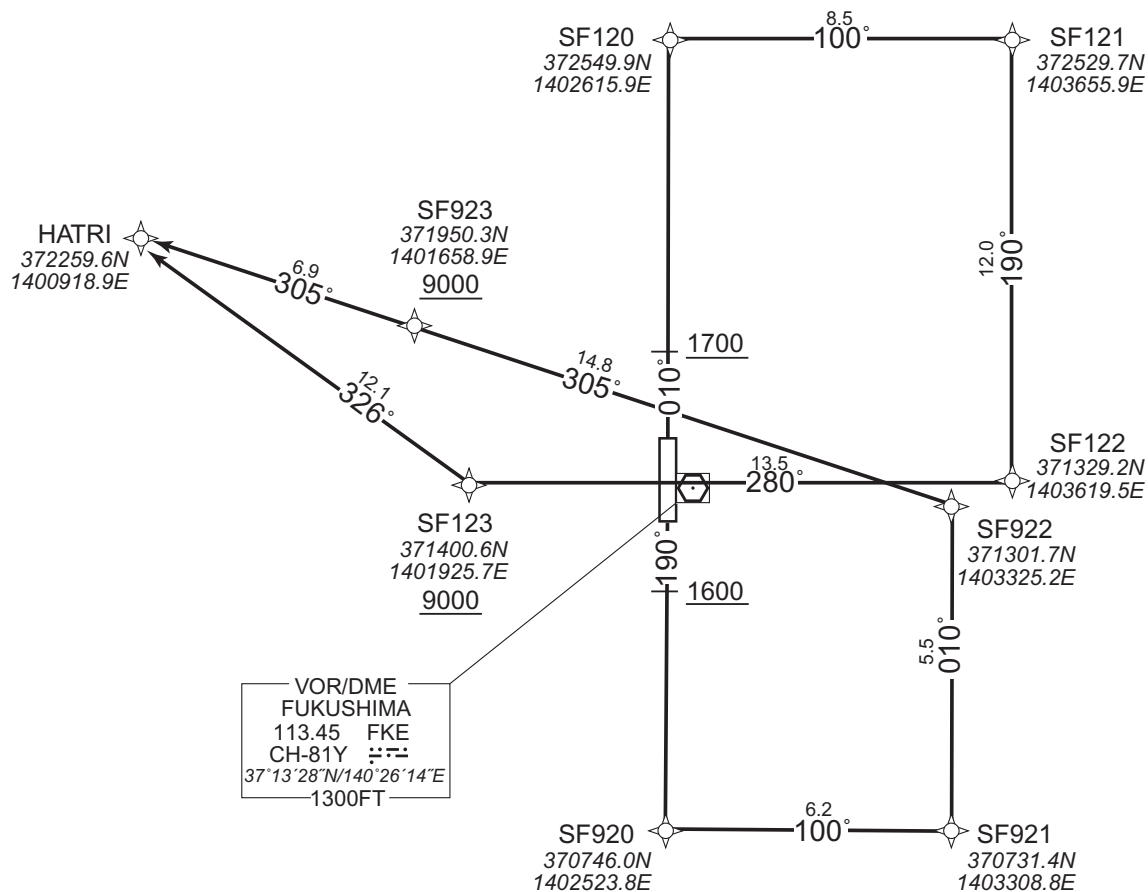
RNAV SID

## WEST ONE DEPARTURE

Basic RNP1

Note GNSS required.

VAR 8°W (2016)

WEST ONE DEPARTUREWEST ONE DEPARTURE

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.

CHANGE : FIX symbol(HATRI).

## 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	—	—	Basic RNP1
002	DF	SF120	—	—	-7.8	—	—	—	—	—	Basic RNP1
003	TF	SF121	—	100 (092.2)	-7.8	8.5	—	—	—	—	Basic RNP1
004	TF	SF122	—	190 (182.3)	-7.8	12.0	—	—	—	—	Basic RNP1
005	TF	SF123	—	280 (272.3)	-7.8	13.5	—	+9000	—	—	Basic RNP1
006	TF	HATRI	—	326 (318.2)	-7.8	12.1	—	—	—	—	Basic 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	—	—	Basic RNP1
002	DF	SF920	—	—	-7.8	—	—	—	—	—	Basic RNP1
003	TF	SF921	—	100 (092.2)	-7.8	6.2	—	—	—	—	Basic RNP1
004	TF	SF922	—	010 (002.3)	-7.8	5.5	—	—	—	—	Basic RNP1
005	TF	SF923	—	305 (297.6)	-7.8	14.8	—	+9000	—	—	Basic RNP1
006	TF	HATRI	—	305 (297.4)	-7.8	6.9	—	—	—	—	Basic RNP1



STANDARD ARRIVAL CHART-INSTRUMENT

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STAR

OKUJI ARRIVAL

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



## STANDARD ARRIVAL CHART-INSTRUMENT

RJSF / FUKUSHIMA

RNAV STAR RWY01/19

WAKAH NORTH ARRIVAL  
SOUMA NORTH ARRIVAL

Basic RNP1

Note GNSS required.

VAR 8°W (2016)

WAKAH NORTH ARRIVAL9.9 for WAKAH  
31.5 for ADTRAHERON  
373155.9N  
1403555.6E  
8000

190°

WAKAH  
372200.3N  
1403525.6E  
5200VOR/DME  
FUKUSHIMA  
113.45 FKE  
CH-81Y  
37°13'28"N/140°26'14"E  
1300FTSOUMA NORTH ARRIVALSOUMA  
370045.1N  
1402503.6E  
46007.4°  
280°ADTRA  
370027.6N  
1403420.9E

CHANGE : FIX symbol(HERON, WAKAH, SOUMA).

## 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	—	—	Basic RNP1
002	TF	WAKAH	—	190 (182.3)	-7.8	9.9	—	+5200	—	—	Basic 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	—	—	Basic RNP1
002	TF	ADTRA	—	190 (182.3)	-7.8	31.5	—	—	—	—	Basic RNP1
003	TF	SOUMA	—	280 (272.3)	-7.8	7.4	—	+4600	—	—	Basic RNP1

## STANDARD ARRIVAL CHART-INSTRUMENT

RJSF / FUKUSHIMA

RNAV STAR RWY01/19

WAKAH SOUTH ARRIVAL  
SOUMA SOUTH ARRIVAL

Basic RNP1

Note GNSS required.

VAR 8°W (2016)



CHANGE : FIX symbol(DAIGO, SOUMA, WAKAH).

## 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	—	—	—	—	—	Basic RNP1
002	TF	WISHU	—	033 (024.8)	-7.8	26.1	—	—	—	—	Basic RNP1
003	TF	WAKAH	—	010 (002.3)	-7.8	13.7	—	+5200	—	—	Basic 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	—	—	—	—	—	Basic RNP1
002	TF	SOUMA	—	019 (011.4)	-7.8	16.4	—	+4600	—	—	Basic RNP1

INSTRUMENT APPROACH CHART

RJSF / FUKUSHIMA

ILS Z or LOC Z RWY01



CHANGE : VAR. PROC course. MAX turning speed. Missed APCH course. MINIMA for circling established. HLDG course.  
 Additional EQPT requirements. OCA added. Circling restriction.

## INSTRUMENT APPROACH CHART

RJSF / FUKUSHIMA

ILS Y or LOC Y RWY01



INSTRUMENT APPROACH CHART

RJSF / FUKUSHIMA

VOR RWY19

TOKYO CONTROL 128.2 - 134.0 297.5 - 255.4	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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VAR 8°W (2020)



CHANGE : VAR. PROC course. MAHOK(FAF) established. Turn initiation. MAX turning speed. MINIMA for circling established. HLDG course. Circling restriction.

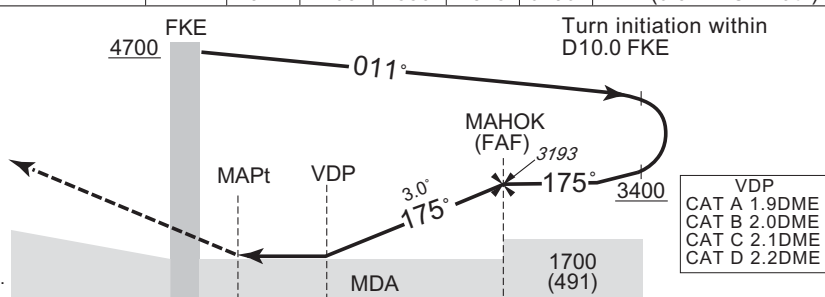


MAHOK(FAF) : 372017.71N/1402416.82E

MAPt	3	4	5	6	FAF	NM to FKE
-	1921	2239	2556	2875	3193	ALT(3.0° APCH Path)

**MISSED APPROACH**  
Climb to 3000FT via FKE  
R175, turn right,  
direct to FKE VOR/DME  
and hold at 4700FT.  
Contact FUKUSHIMA RADIO.

\* Timing not authorized for defining the MAPt.



VDP	CAT A 1.9DME
CAT B 2.0DME	CAT C 2.1DME
CAT D 2.2DME	

DME to FKE	0.9 1.7	7.0
NM to THR	0 0.8	6.1

MINIMA		THR elev. 1209	AD elev. 1220	
CAT			CIRCLING	
	MDA(H)	CMV	MDA(H)	VIS
A	1550 (341)	1200	1670(450)	1600
B	1590 (381)	1300		
C	1620 (411)	1400		2400
D	1640 (431)	1600	1770(550)	3200

Circling to WEST side of RWY only.



## INSTRUMENT APPROACH CHART

RJSF / FUKUSHIMA

VOR A

TOKYO CONTROL  
128.2 - 134.0  
297.5 - 255.4FUKUSHIMA VOR/DME  
113.45 FKE  
CH-81Y  
37°13'28"N/140°26'14"EFUKUSHIMA RADIO  
118.05 - 126.2

NO RADAR

VAR 8°W (2020)

EQPT REQUIRED  
DMETurn initiation within  
D11.0 FKE

**MISSED APPROACH**  
Climb to 3000FT via FKE  
R008, turn left,  
direct to FKE VOR/DME  
and hold at 4700FT.  
Contact FUKUSHIMA RADIO.

\*Timing not authorized for defining the MAPt.

MINIMA

AD elev. 1220

CAT	CIRCLING	
	MDA(H)	VIS
A	1680 (460)	1600
B		2400
C		3200
D	1770 (550)	3200

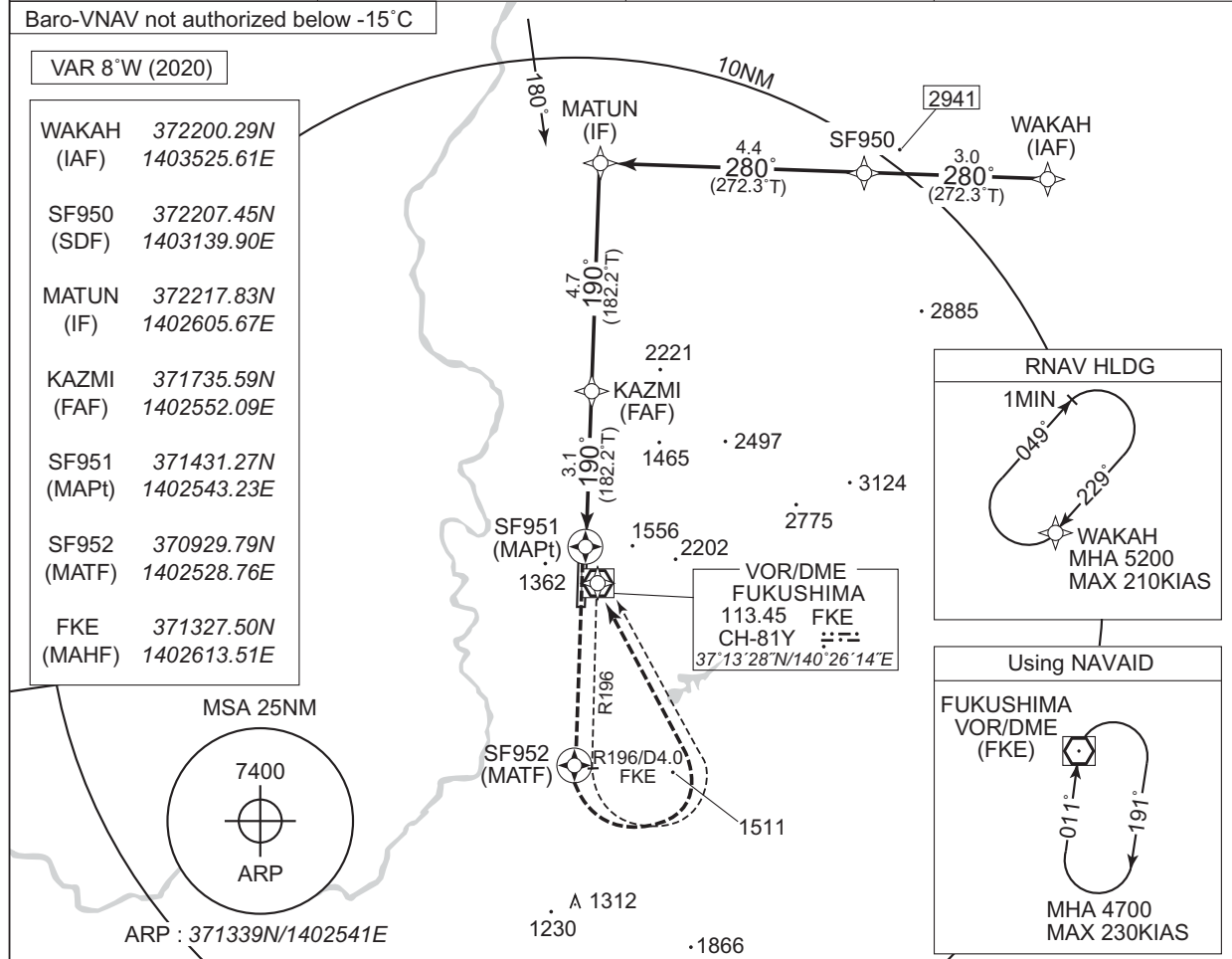
Circling to WEST side of RWY only.

## RJSF / FUKUSHIMA

TOKYO CONTROL 128.2 - 134.0 297.5 - 255.4	1. DME/DME RNP0.3 not authorized. 2. RNP0.3 required. 3. GNSS required.	FUKUSHIMA RADIO 118.05 - 126.2	NO RADAR
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VAR 8°W (2020)

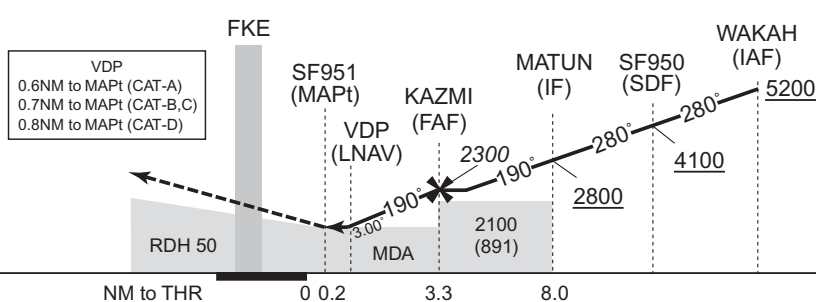
WAKAH (IAF)	372200.29N 1403525.61E
SF950 (SDF)	372207.45N 1403139.90E
MATUN (IF)	372217.83N 1402605.67E
KAZMI (FAF)	371735.59N 1402552.09E
SF951 (MAPt)	371431.27N 1402543.23E
SF952 (MATF)	370929.79N 1402528.76E
FKE (MAHF)	371327.50N 1402613.51E



NM to Next Fix	MAPt	1	2	3	FAF
ALT(3.0° APCH Path)	—	1641	1959	2278	2300

Climb direct to SF952, turn left direct to FKE and hold at 4700FT.  
Contact FUKUSHIMA RADIO.

(For using VOR/DME)  
Climb via FKE R196 to FKE 4.0DME,  
turn left, direct to FKE VOR/DME and  
hold at 4700FT.  
Contact FUKUSHIMA RADIO.



Missed APCH climb gradient MNM 3.0%
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MINIMA		THR elev.1209		AD elev.1220		
CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	CMV	MDA(H)	CMV	MDA(H)	VIS
A	1520 (311)	1200	1520 (311)	1200	1670 (450)	1600
B	1540 (331)	1300	1540 (331)	1300		
C	1560 (351)	1400	1560 (351)	1400		2400
D	1580 (371)	1600	1580 (371)	1600	1770 (550)	3200

MINIMA with Missed APCH climb gradient of 2.5% are not established. Circling to WEST side of RWY only.
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CHANGE : HLDG pattern(WAKAH).

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



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

RJSF / FUKUSHIMA

Minimum Vectoring Altitude CHART

CHANGE : Shape of Minimum Vectoring Altitude.

