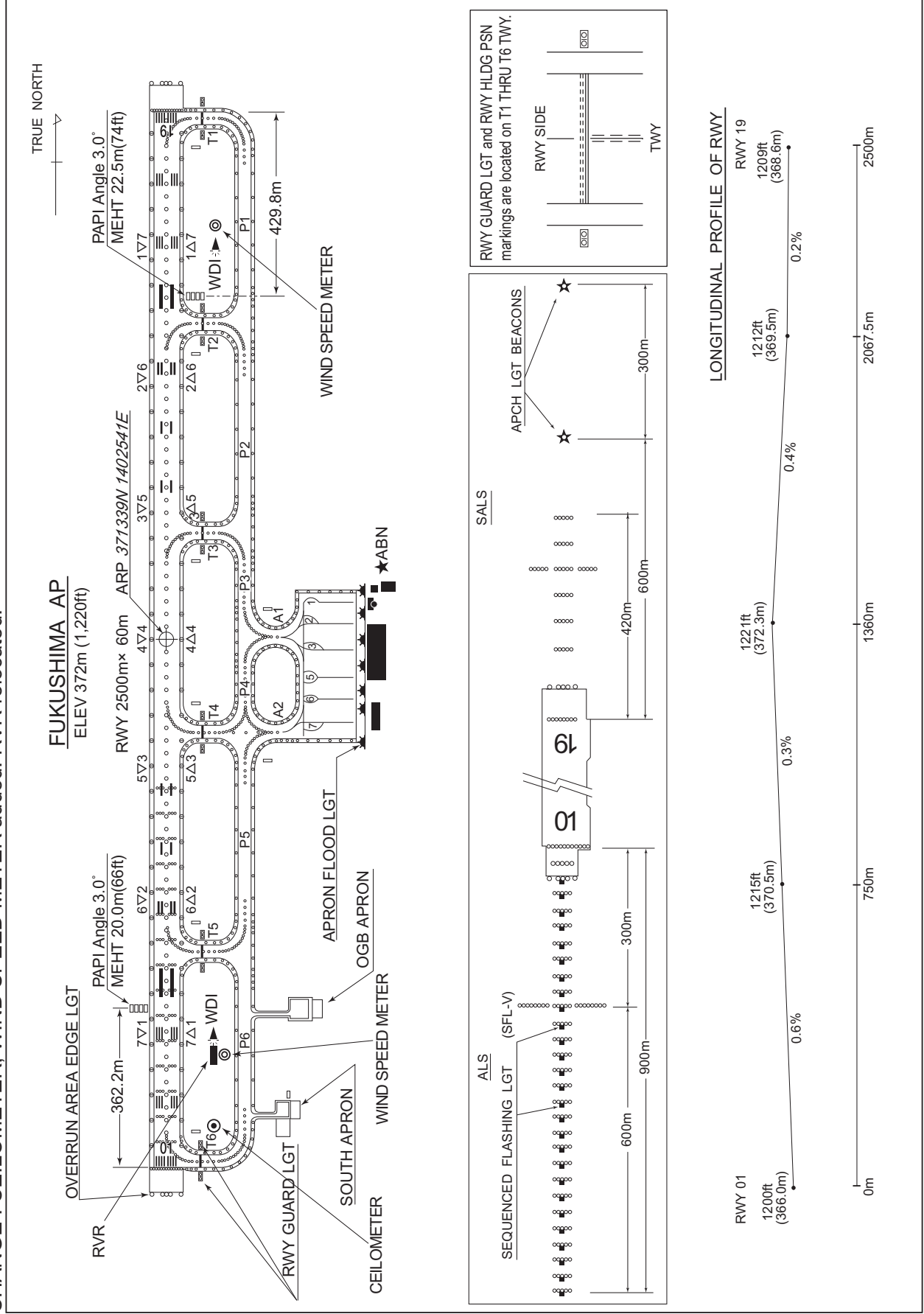


RJSF / FUKUSHIMA

AD CHART

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



STANDARD DEPARTURE CHART-INSTRUMENT

RJSF / FUKUSHIMA

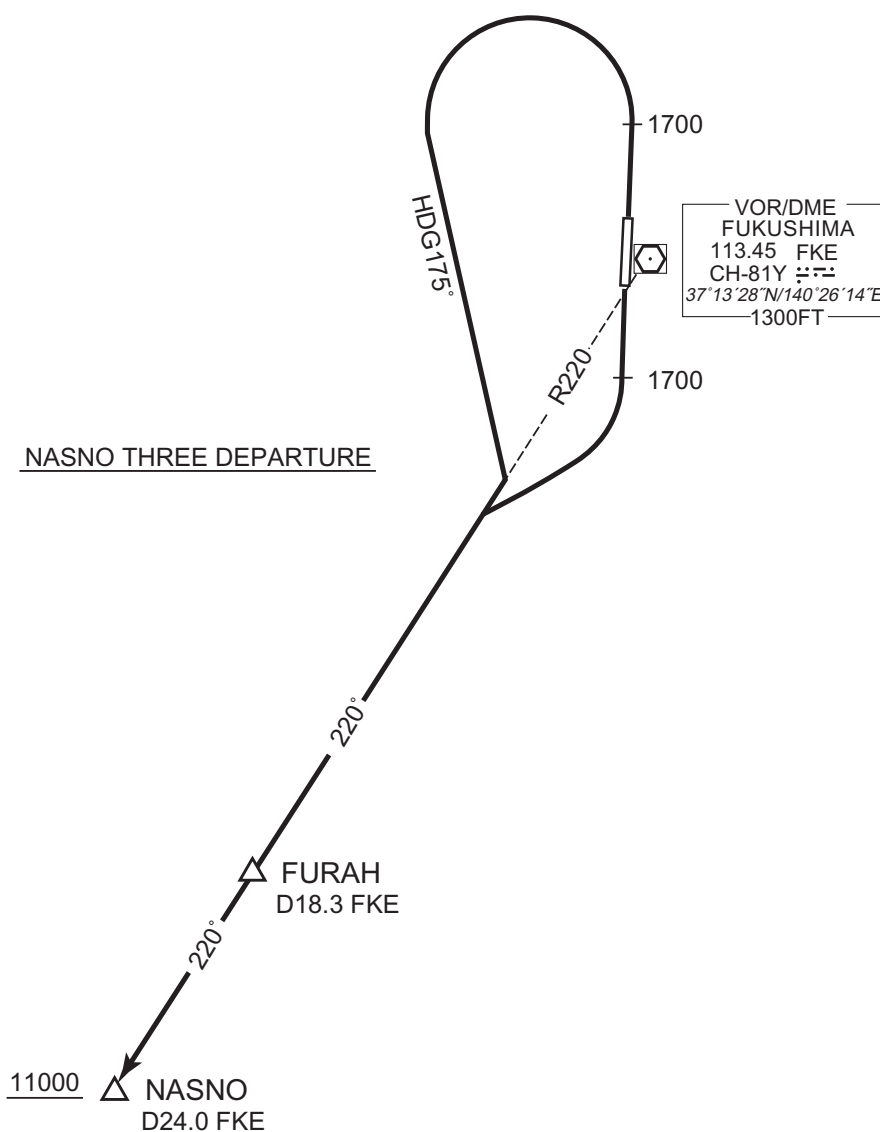
SID

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 : 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

RJSF / FUKUSHIMA

RNAV SID

## WEST ONE DEPARTURE

Basic RNP1

Note GNSS required.

VAR 8°W (2016)

## WEST ONE DEPARTURE



## WEST 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

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.



## 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

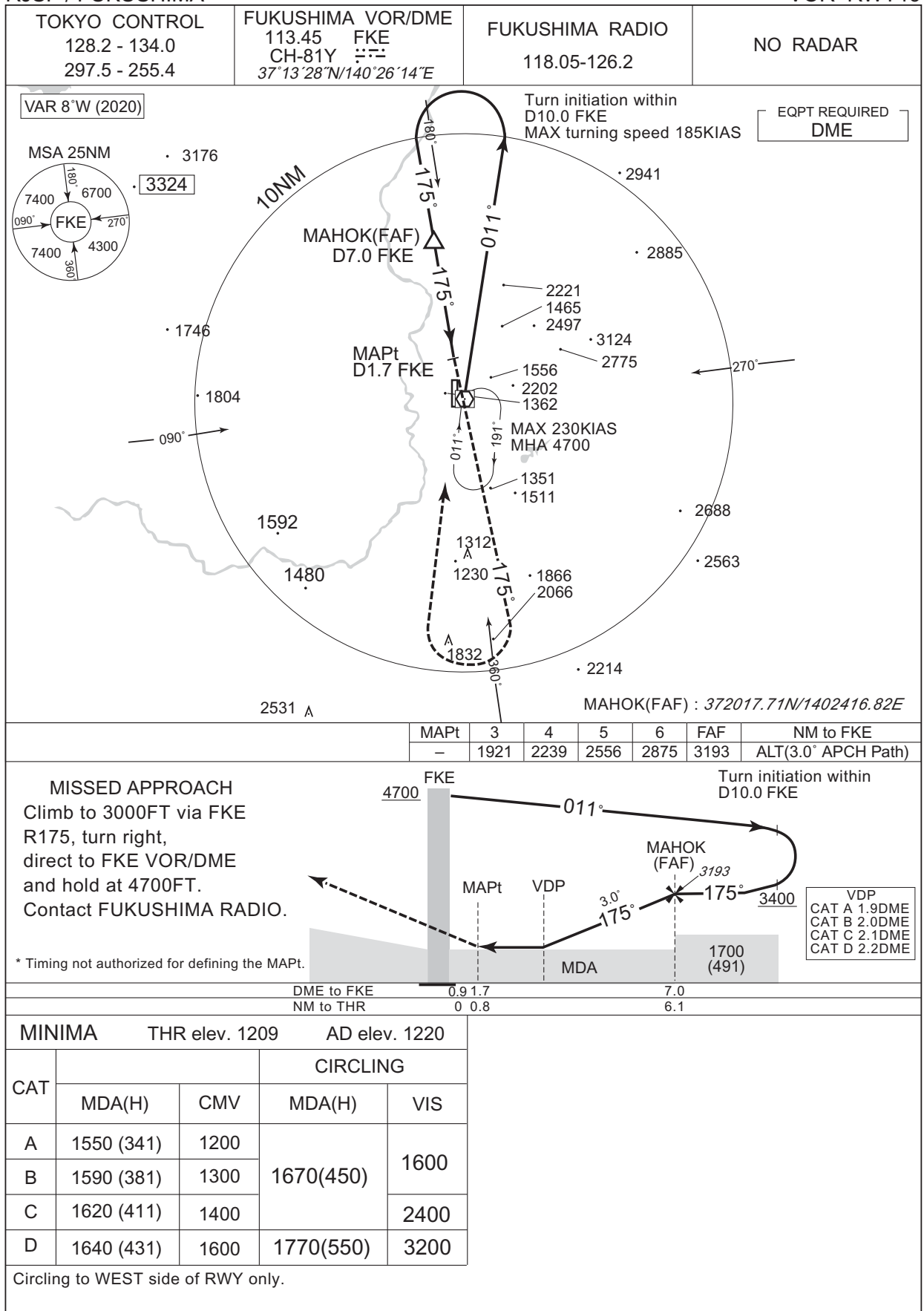
ILS Y or LOC Y RWY01



INSTRUMENT APPROACH CHART

RJSF / FUKUSHIMA

VOR RWY19





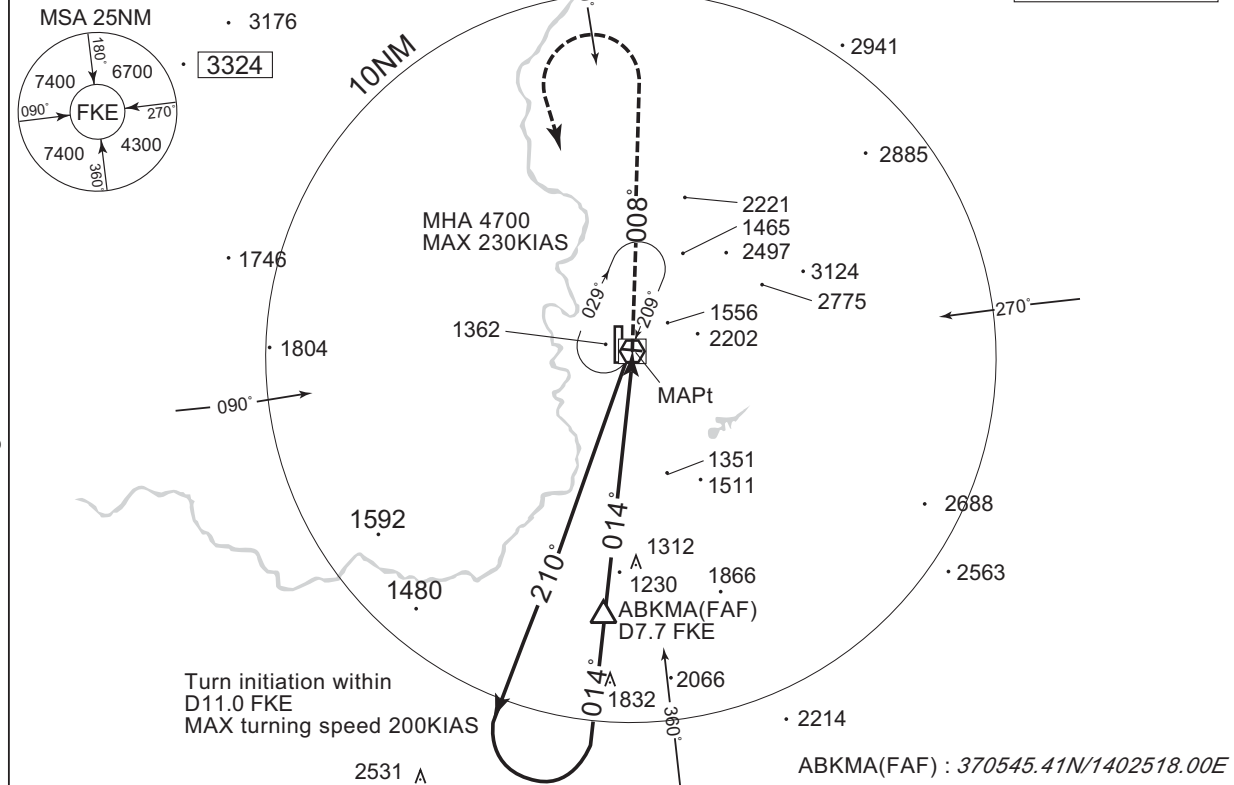
VOR A

TOKYO CONTROL  
128.2 - 134.0  
297.5 - 255.4

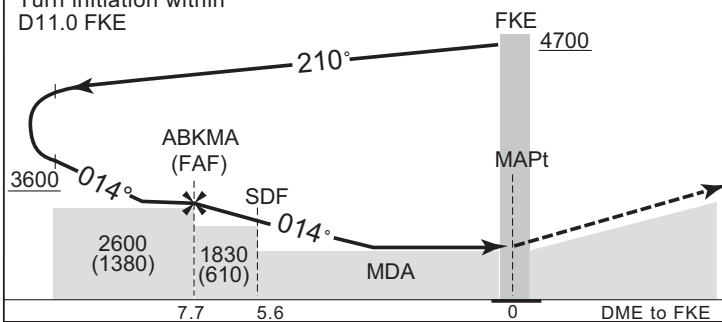
FUKUSHIMA VOR/DME  
113.45 FKE  
CH-81Y ㊦㊧  
37°13'28"N/140°26'14"E

FUKUSHIMA RADIO  
118.05 - 126.2

NO RADAR



## Turn 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		
C		2400
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**

Baro-VNAV not authorized below -15°C

**VAR 8°W (2020)**

**WAKAH** 372200.29N  
(IAF) 1403525.61E

**SF950** 372207.45N  
(SDF) 1403139.90E

**MATUN** 372217.83N  
(IF) 1402605.67E

**KAZMI** 371735.59N  
(FAF) 1402552.09E

**SF951** 371431.27N  
(MAPt) 1402543.23E

**SF952** 370929.79N  
(MATF) 1402528.76E

**FKE** 371327.50N  
(MAHF) 1402613.51E

**RNAV HLDG**

1MIN

049°

229°

**WAKAH**  
MHA 5200  
MAX 210KIAS

**Using NAVAID**

**FUKUSHIMA VOR/DME (FKE)**

011°

191°

**MHA 4700**  
**MAX 230KIAS**

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

**MISSED APPROACH**

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**.

**VDP**  
0.6NM to MAPt (CAT-A)  
0.7NM to MAPt (CAT-B,C)  
0.8NM to MAPt (CAT-D)

Missed APCH climb gradient MNM 3.0%

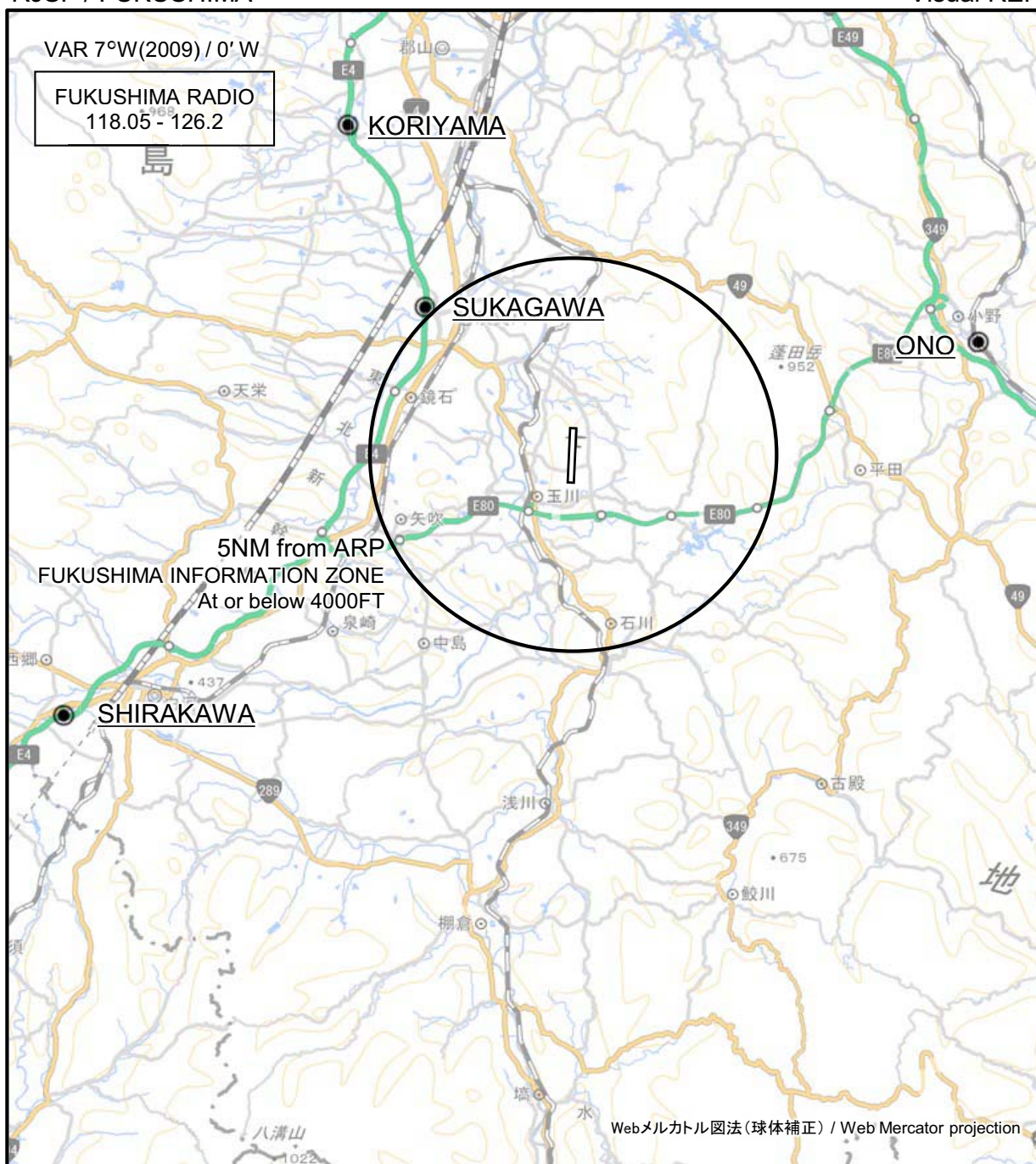
CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	CMV	MDA(H)	CMV	MDA(H)	VIS
A	1520 (311)	1200	1520 (311)	1200	1670 (450)	1600
B	1540 (331)	1300	1540 (331)	1300		
C	1560 (351)	1400	1560 (351)	1400		
D	1580 (371)	1600	1580 (371)	1600	1770 (550)	3200

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

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.

