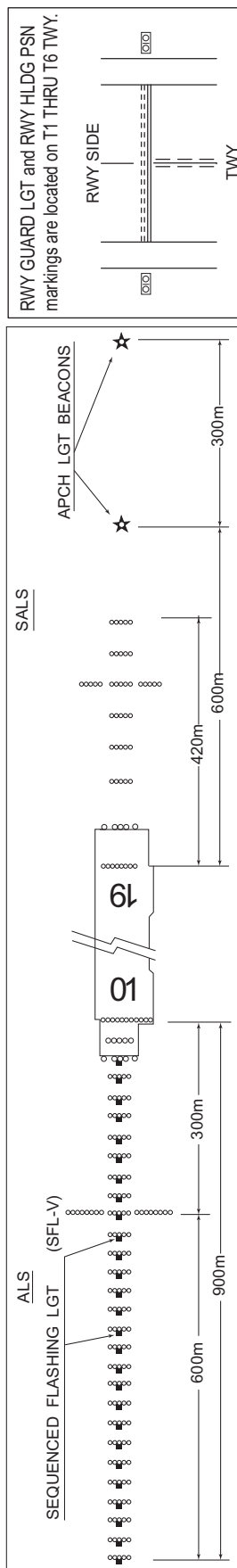
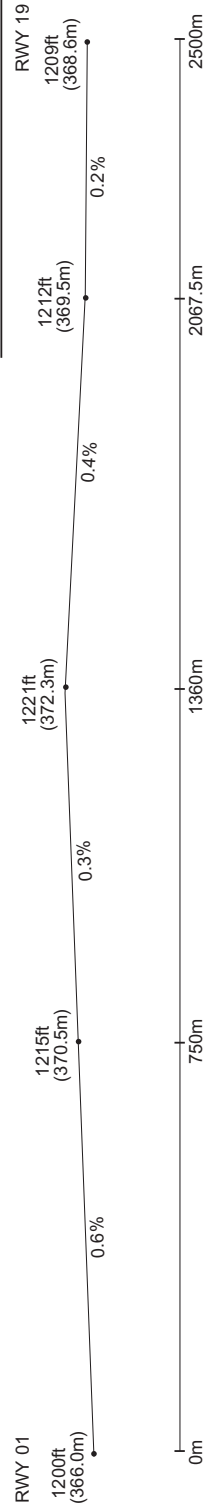


AD CHART

FUKUSHIMA AP
ELEV 372m (1,220ft)



LONGITUDINAL PROFILE OF RWY



STANDARD DEPARTURE CHART-INSTRUMENT

RJSF / FUKUSHIMA

SID

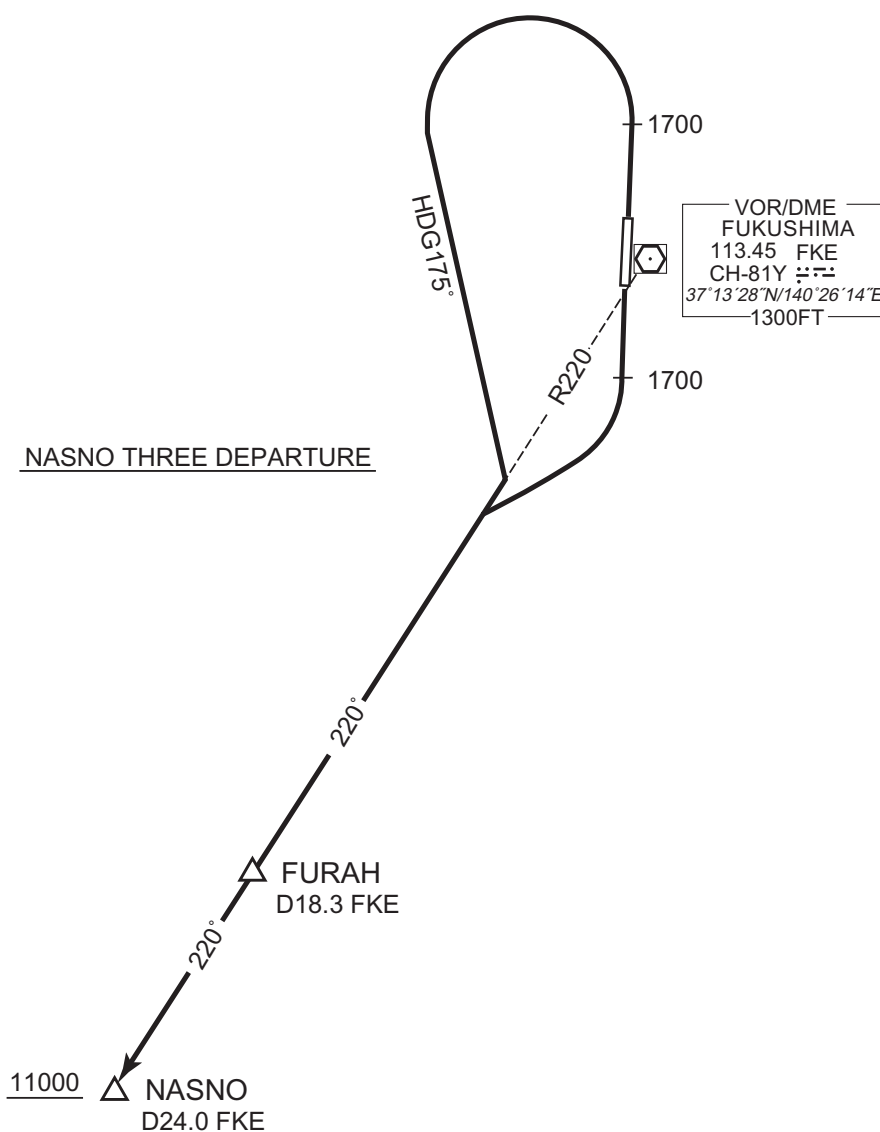
NASNO THREE DEPARTURE

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 ARRIVAL

9.9 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
1300FT

SOUMA NORTH ARRIVAL

SOUMA
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)

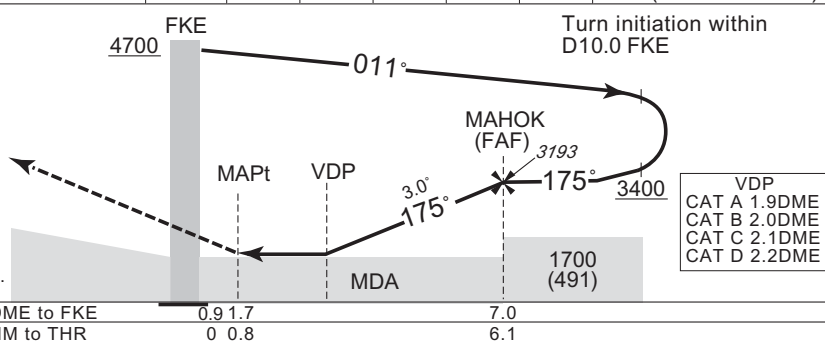


CHANGE : VAR. PROC course. MAHOK(FAF) established. Turn initiation. MAX turning speed. MINIMA for circling established. HLDG course. Circling restriction.



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.



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

Circling to WEST side of RWY only.

INSTRUMENT APPROACH CHART

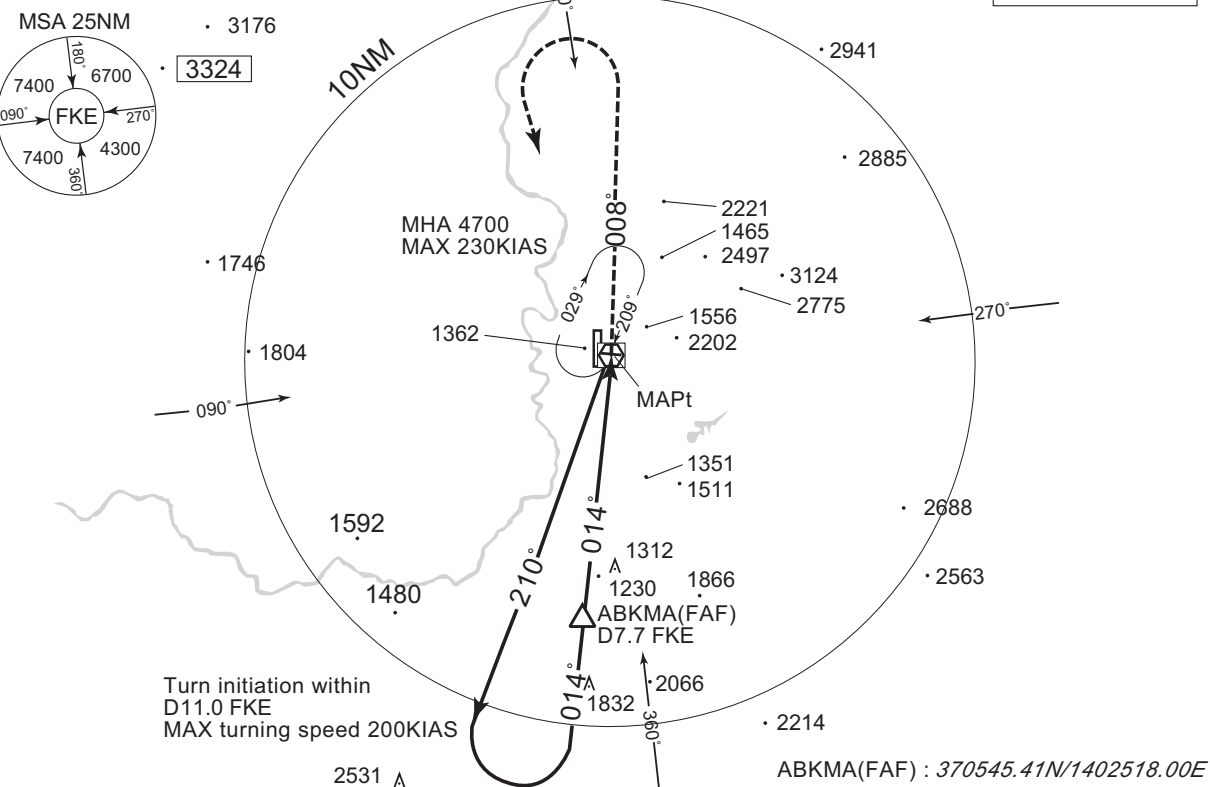
RJSF / FUKUSHIMA

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

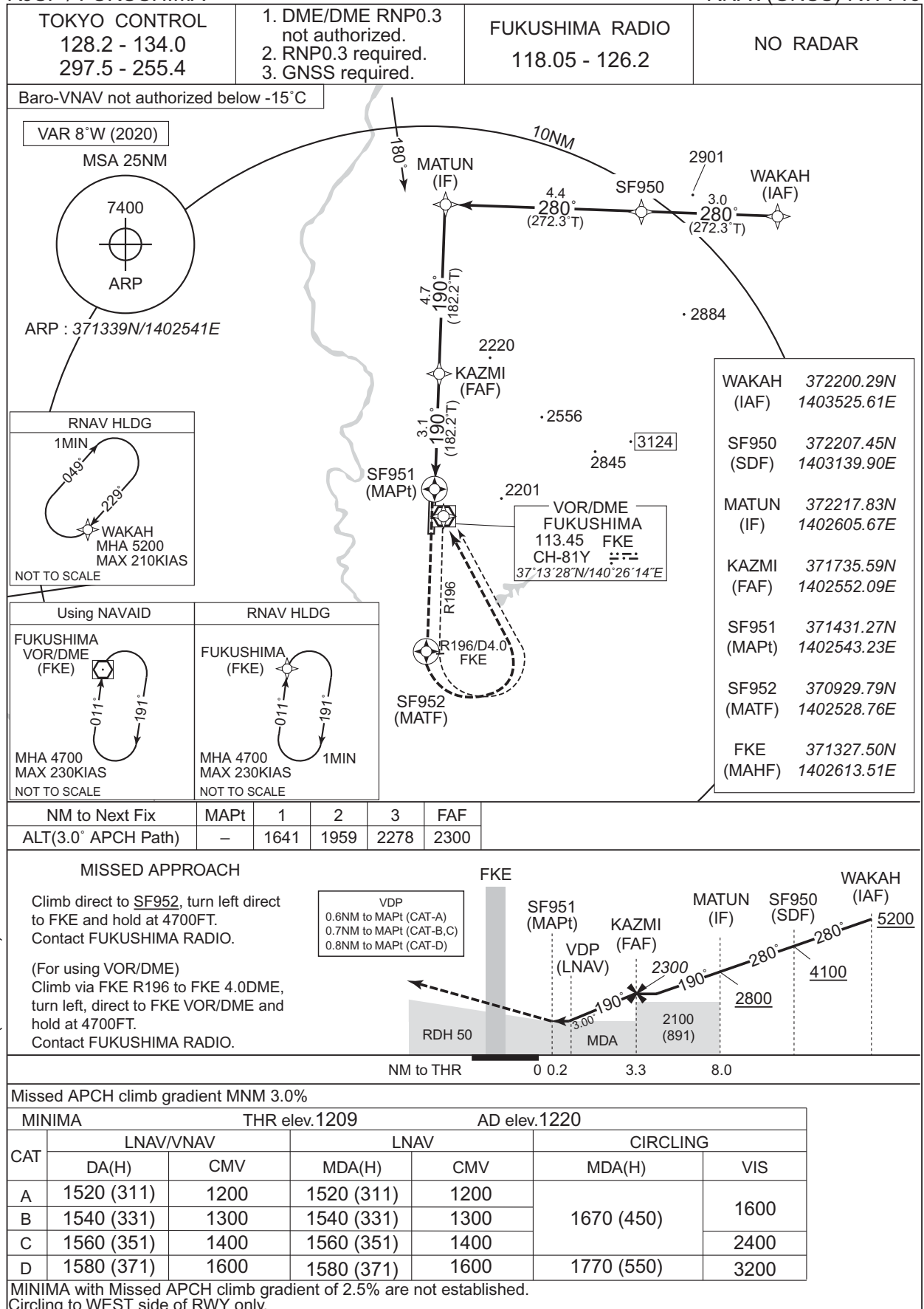
CAT	CIRCLING	
	MDA(H)	VIS
A	1680 (460)	1600
B		2400
C		3200
D	1770 (550)	3200

Circling to WEST side of RWY only.

INSTRUMENT APPROACH CHART

RJSF / FUKUSHIMA

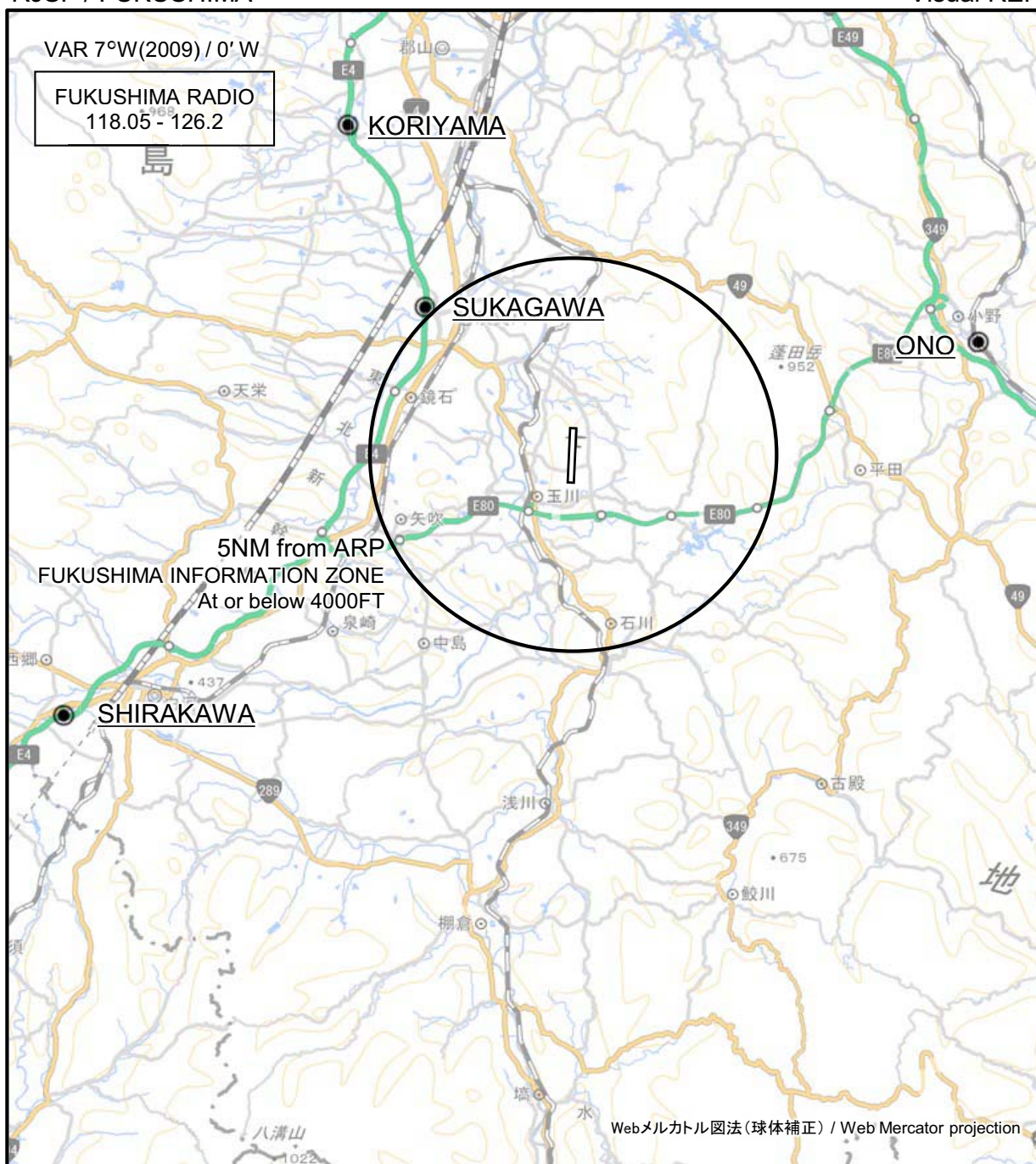
RNAV(GNSS) RWY19



CHANGE : RNAV HLDG established(Fukushima).

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.

