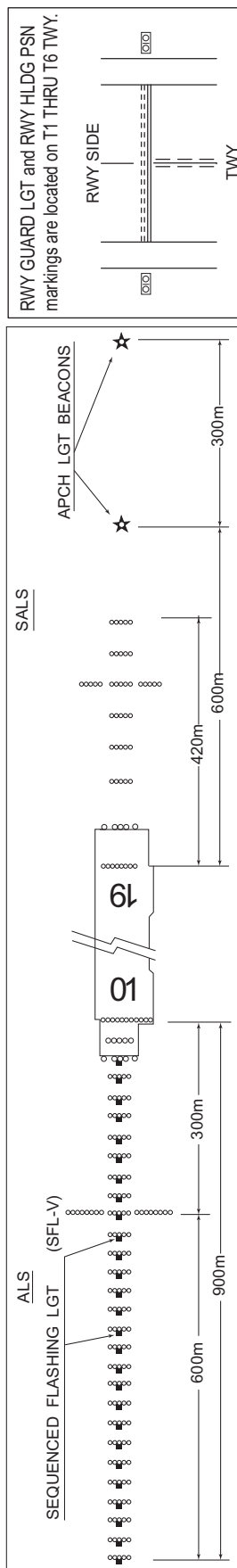
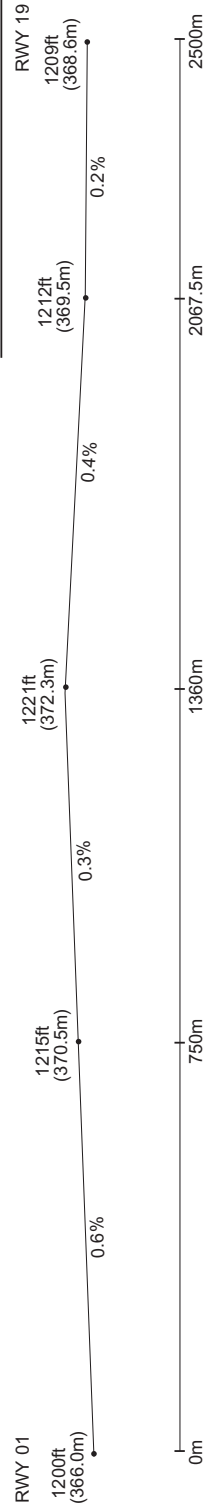


AD CHART

FUKUSHIMA AP
ELEV 372m (1,220ft)



LONGITUDINAL PROFILE OF RWY



STANDARD DEPARTURE CHART-INSTRUMENT

RJSF / FUKUSHIMA

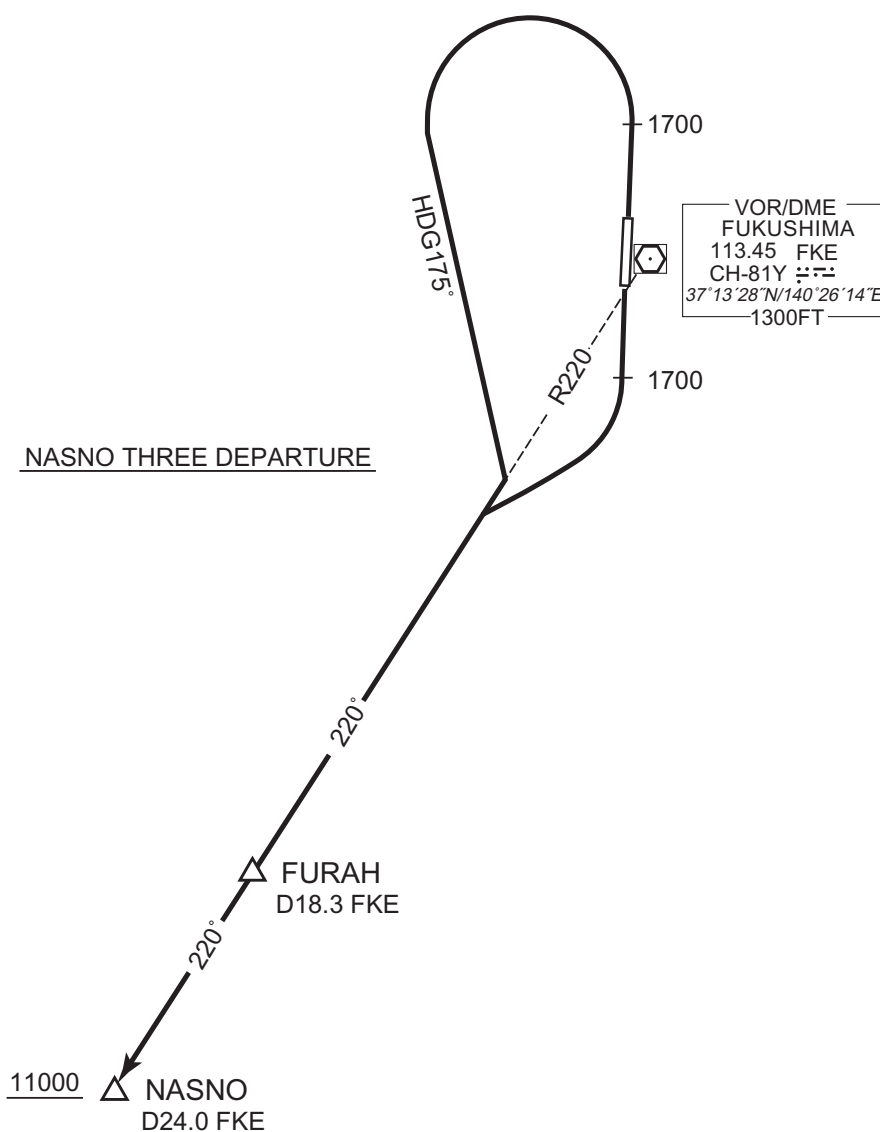
SID

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 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

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

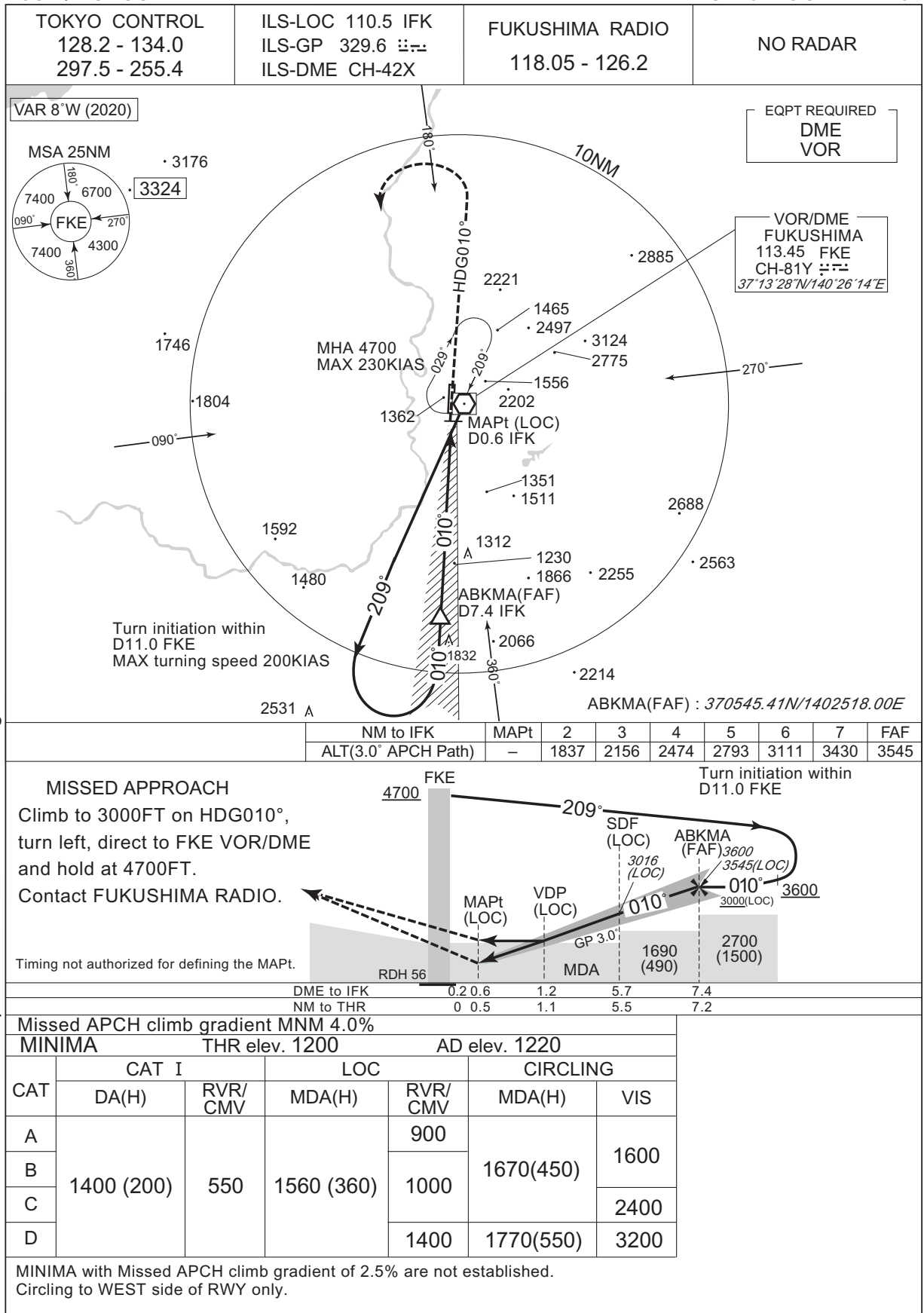
From DAIGO, to SOUMA at or above 4600FT.

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.

RJSF / FUKUSHIMA

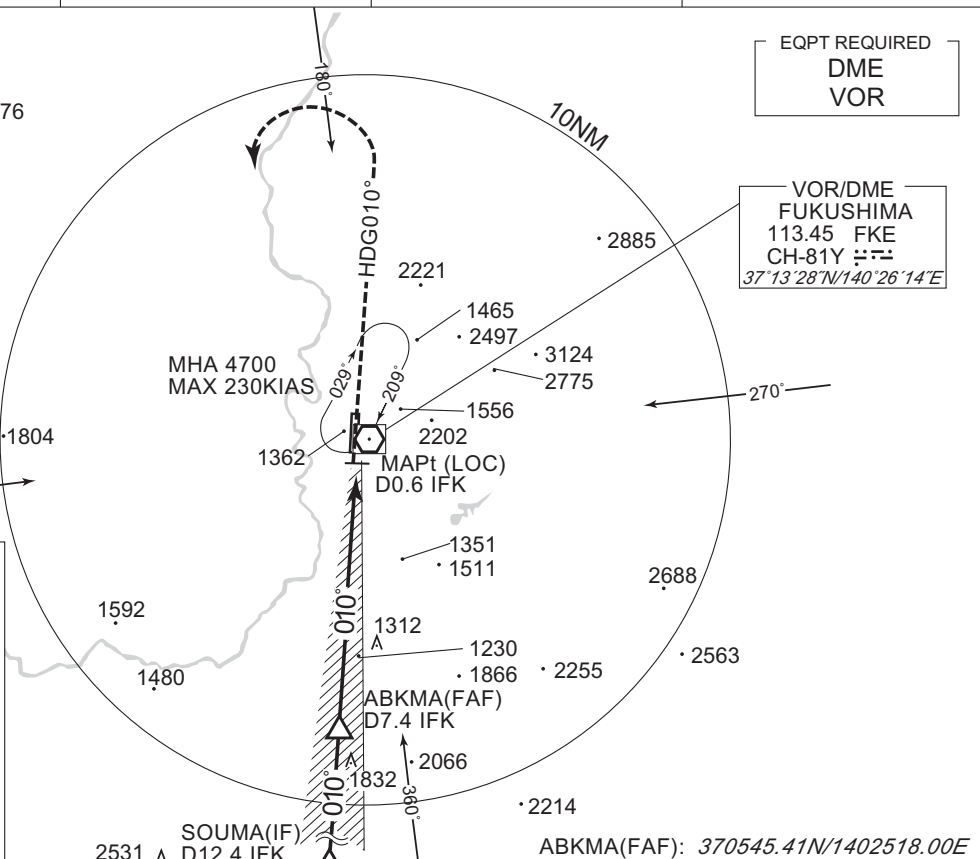
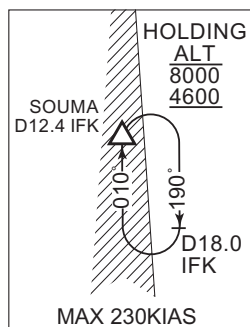
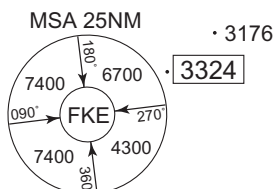
ILS Y or LOC Y RWY01

TOKYO CONTROL 128.2 - 134.0 297.5 - 255.4	ILS-LOC 110.5 IFK ILS-GP 329.6  ILS-DME CH-42X	FUKUSHIMA RADIO 118.05 - 126.2	NO RADAR
---	---	-----------------------------------	----------

VAR 8°W (2020)

EQPT REQUIRED
DME
VOR

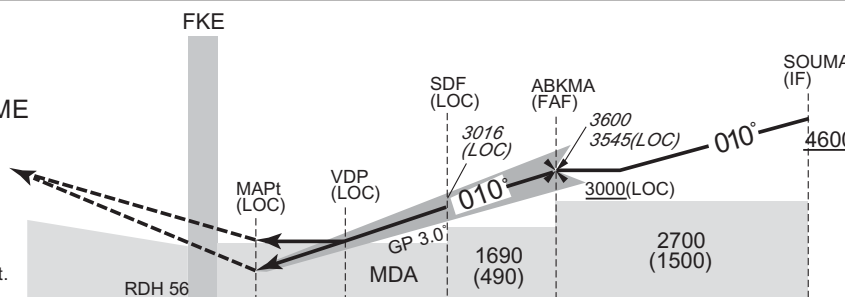
VOR/DME
FUKUSHIMA
113.45 FKE
CH-81Y ㊦㊧㊨
37°13'28"N/140°26'14"E



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

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.



DME to IFK	0.2	0.6	1.2	5.7	7.4	12.4
NM to THR	0	0.5	1.1	5.5	7.2	12.2

Missed APCH climb gradient MNM 4.0%

MINIMA	THR elev. 1200	AD elev. 1220
--------	----------------	---------------

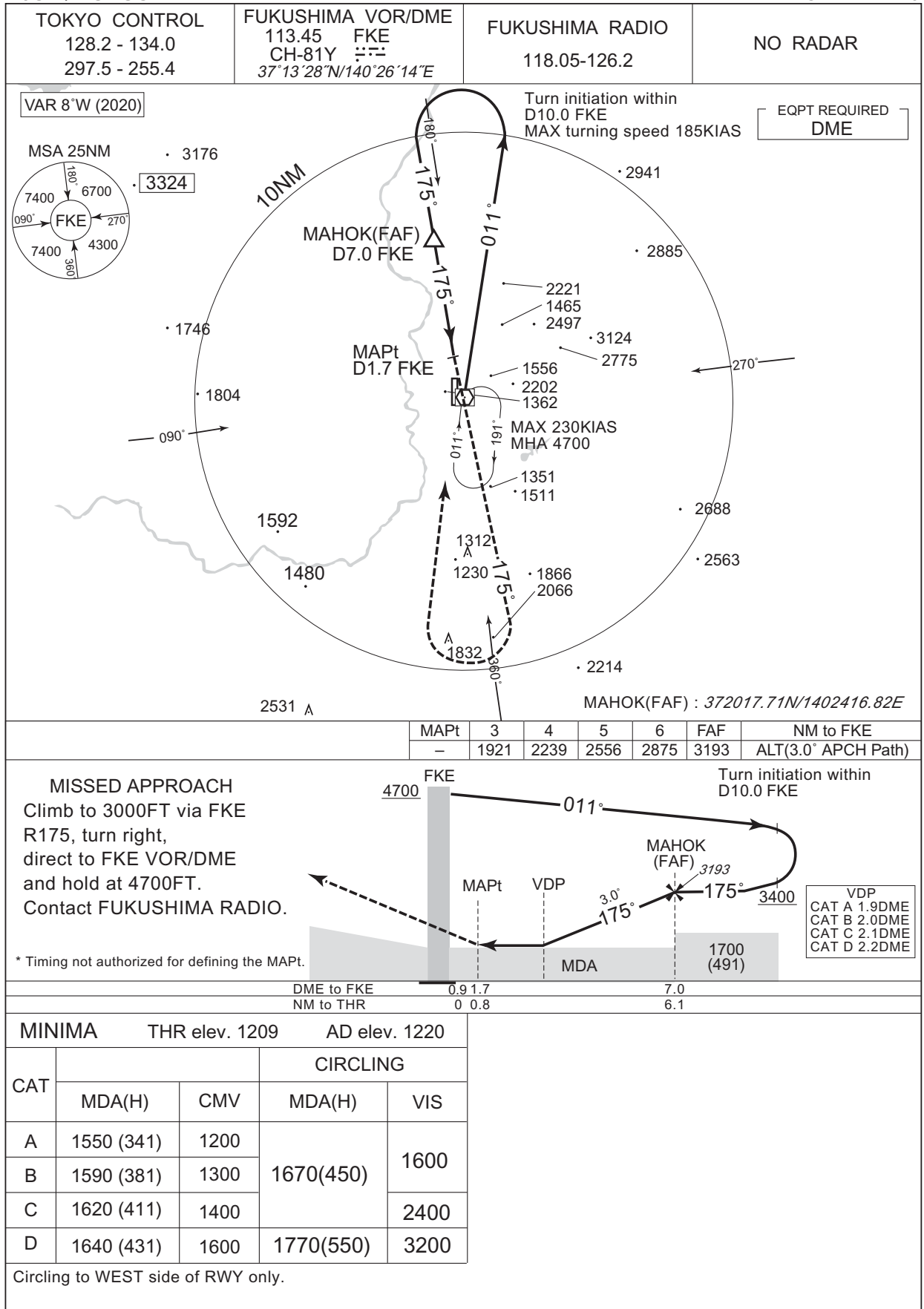
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	1400 (200)	550	1560 (360)	900	1670(450)	1600
B				1000		
C						
D				1400	1770(550)	3200

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

INSTRUMENT APPROACH CHART

RJSF / FUKUSHIMA

VOR RWY19



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

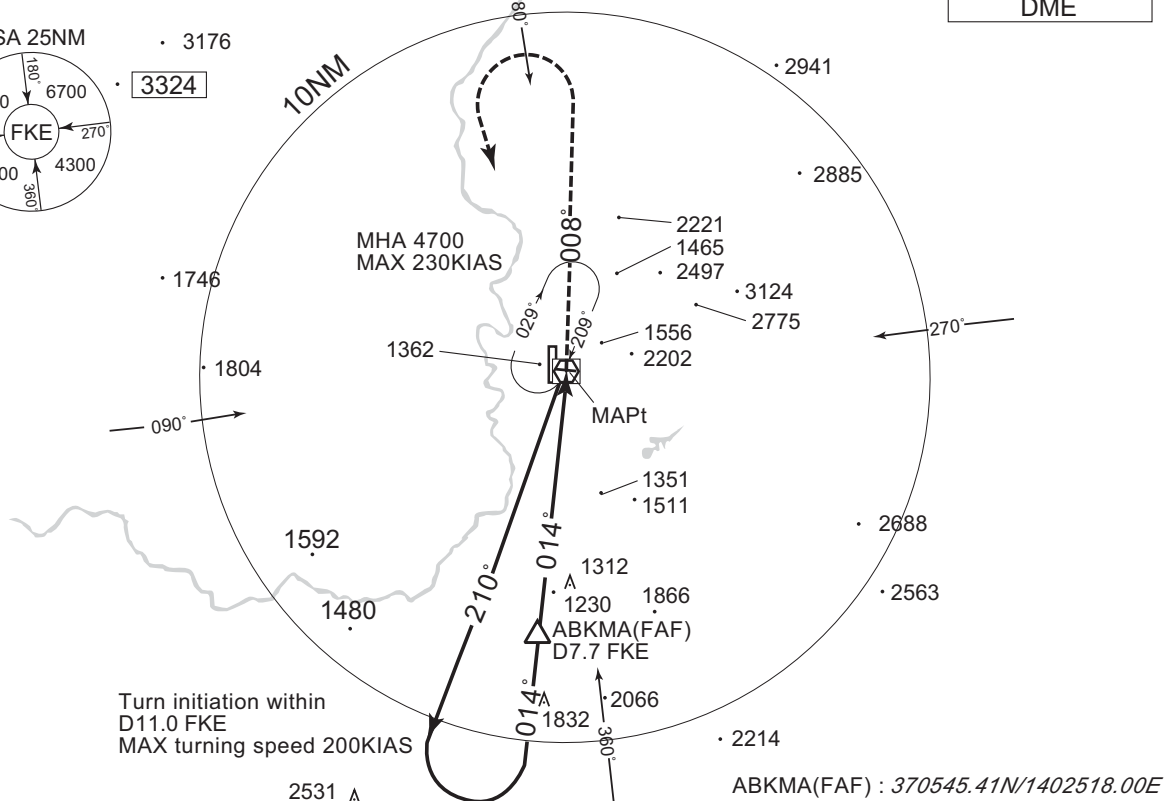
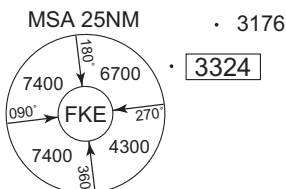
VOR A

TOKYO CONTROL
128.2 - 134.0
297.5 - 255.4

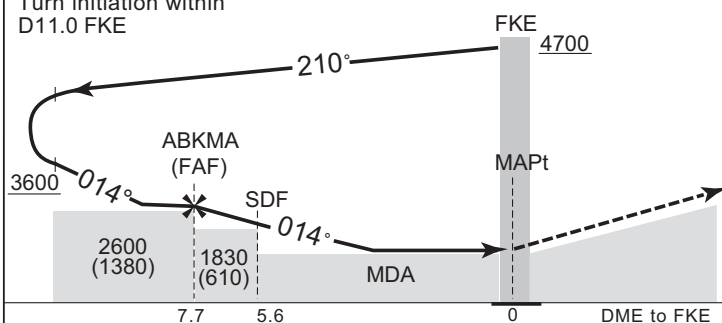
FUKUSHIMA VOR/DME
113.45 FKE
CH-81Y ㊦㊧
37°13'28"N/140°26'14"E

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.

INSTRUMENT APPROACH CHART

RJSF / FUKUSHIMA

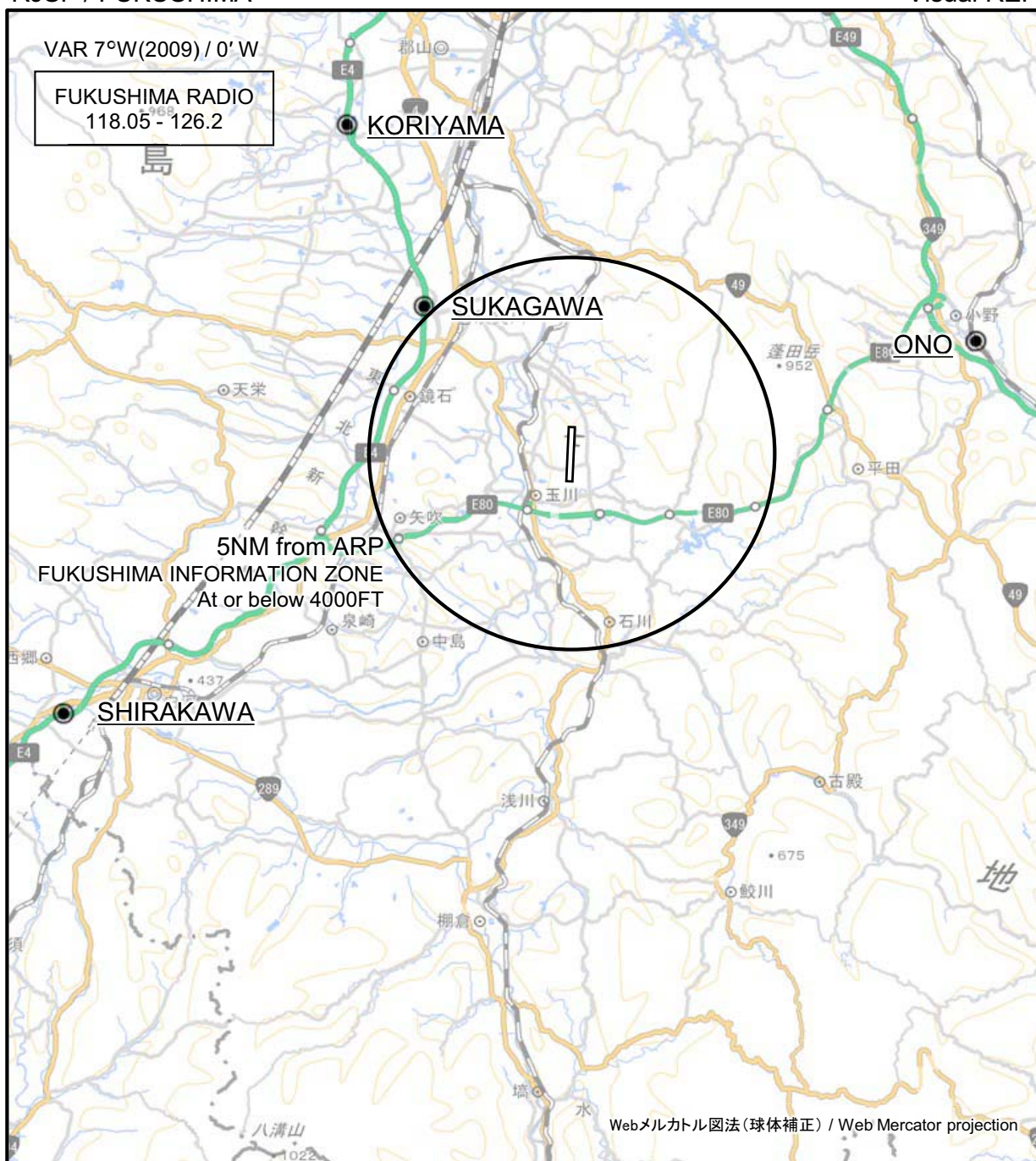
RNAV(GNSS) RWY19



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.

