

RJSF / FUKUSHIMA

AD CHART



STANDARD DEPARTURE CHART-INSTRUMENT

RJSF / FUKUSHIMA

SID

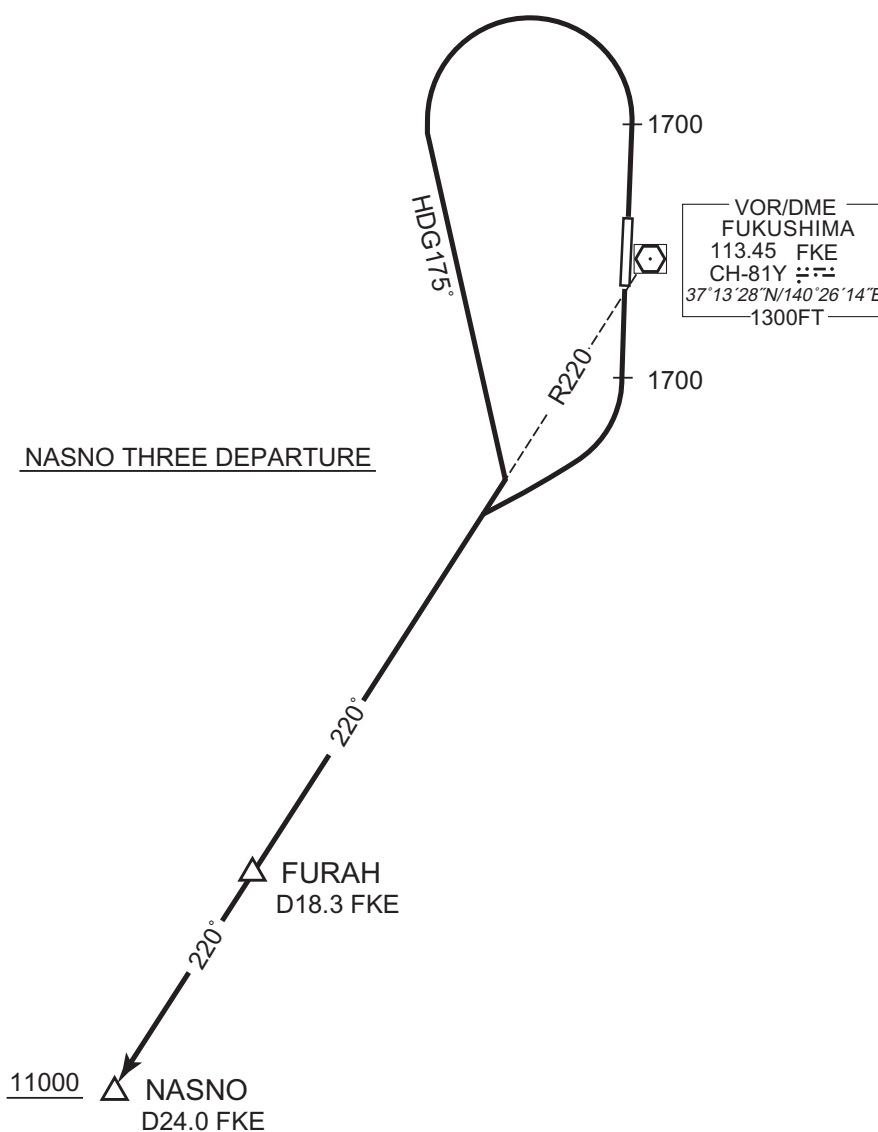
NASNO THREE DEPARTURE

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

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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

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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.

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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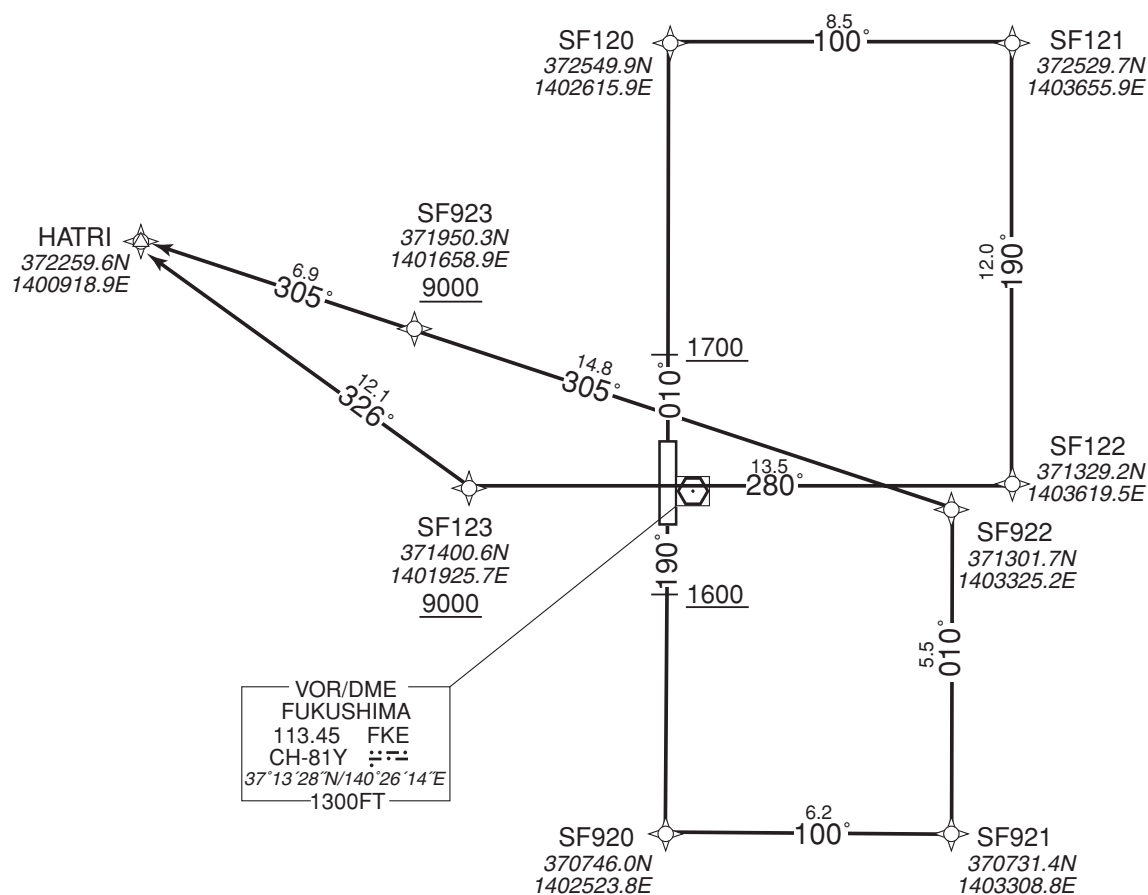
RNAV SID

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.

STANDARD DEPARTURE CHART-INSTRUMENT

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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 𠄎𠄎𠄎
37°13'28"N/140°26'14"E
1300FTSOUMA NORTH ARRIVALSOUMA
370045.1N
1402503.6E
46007.4
280°ADTRA
370027.6N
1403420.9E

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)



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

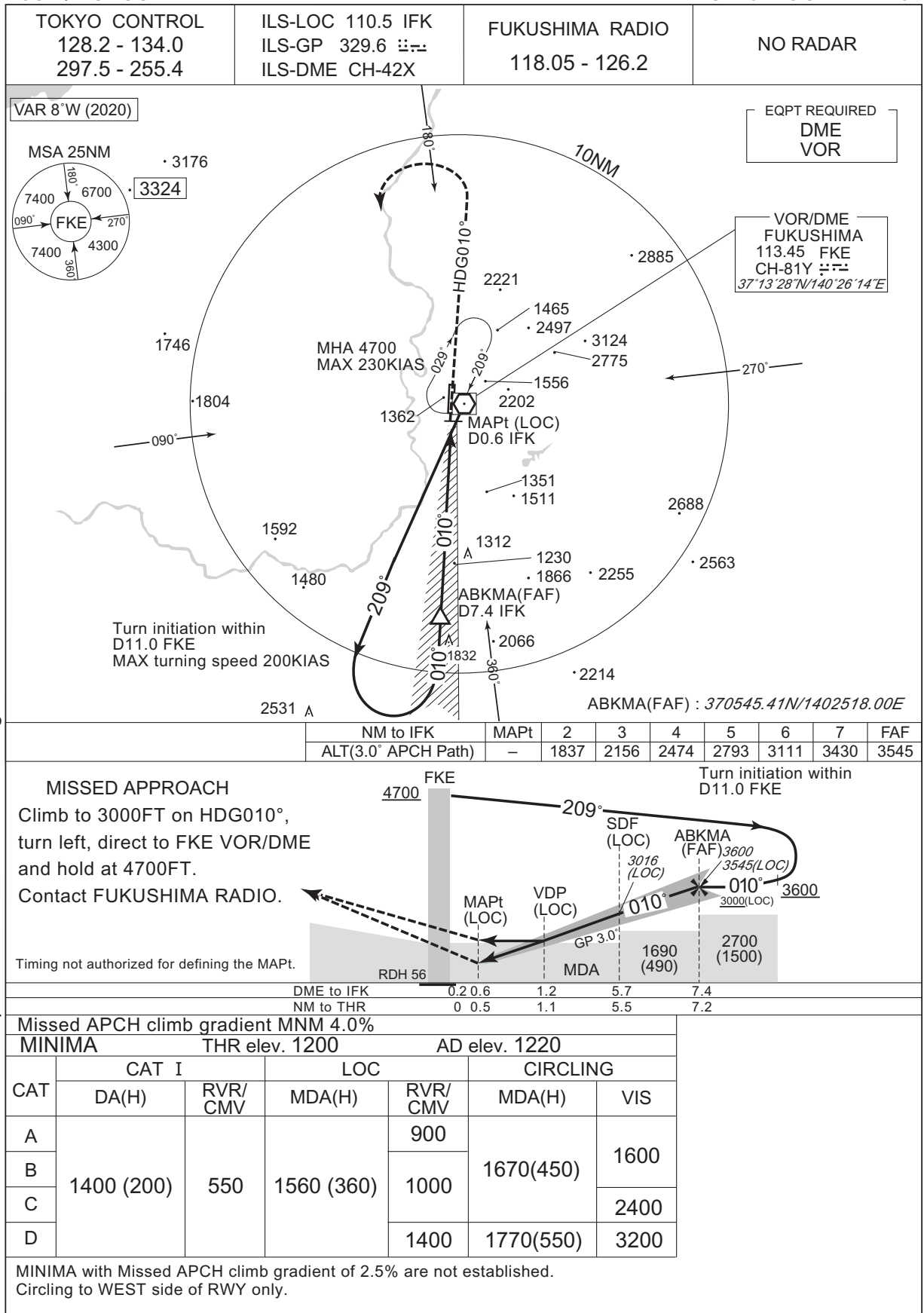
From DAIGO, to SOUMA at or above 4600FT.

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

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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

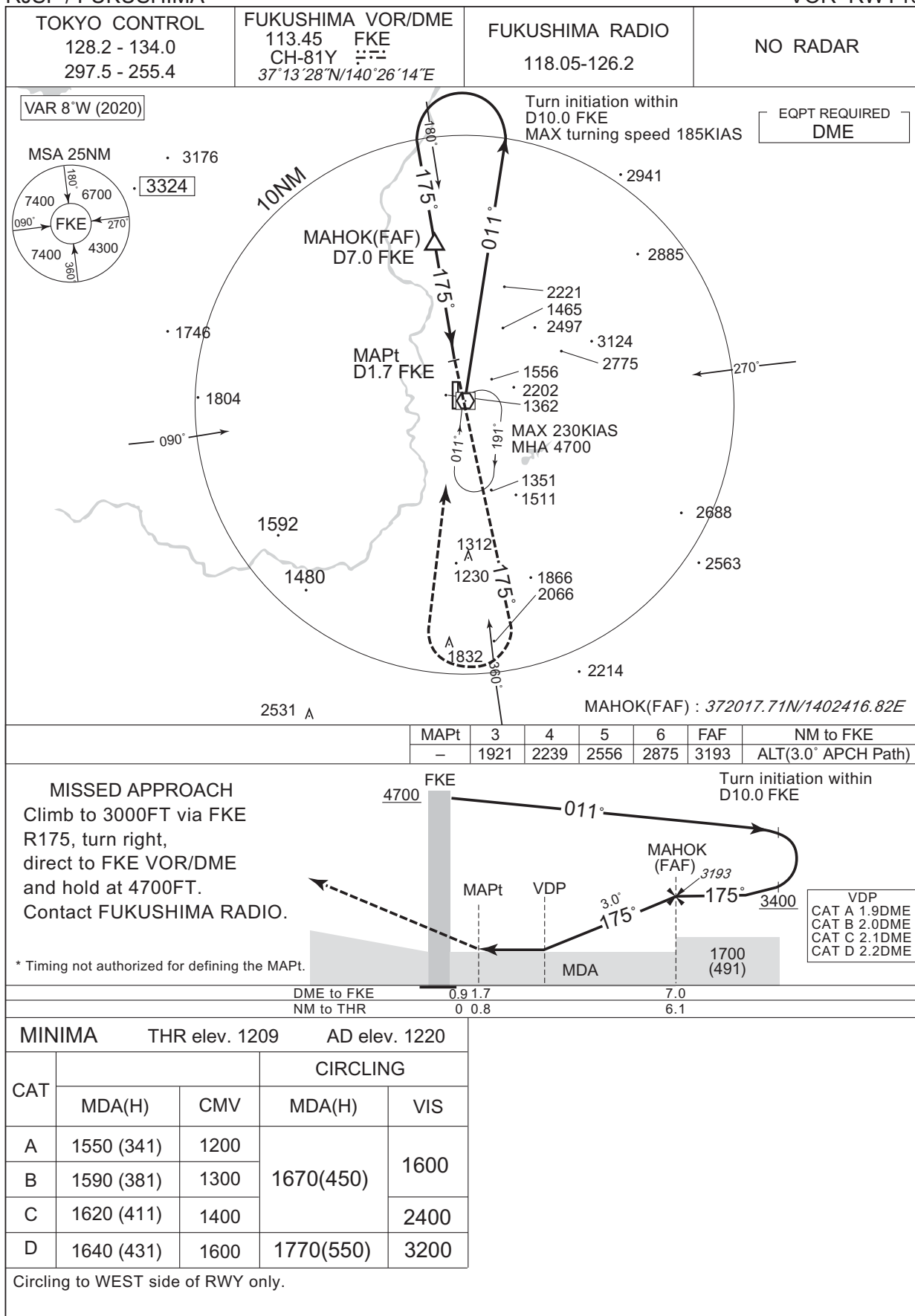
ILS Y or LOC Y RWY01



INSTRUMENT APPROACH CHART

RJSF / FUKUSHIMA

VOR RWY19



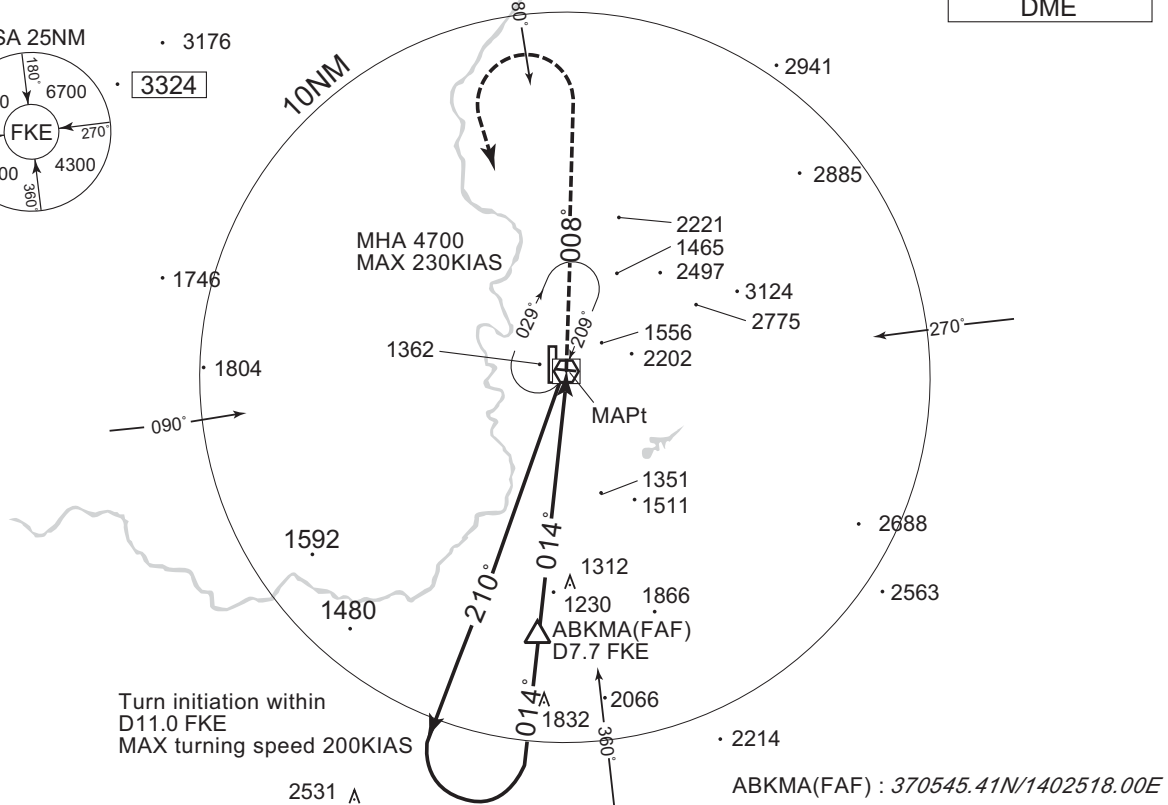
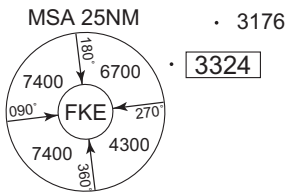
VOR A

TOKYO CONTROL
128.2 - 134.0
297.5 - 255.4

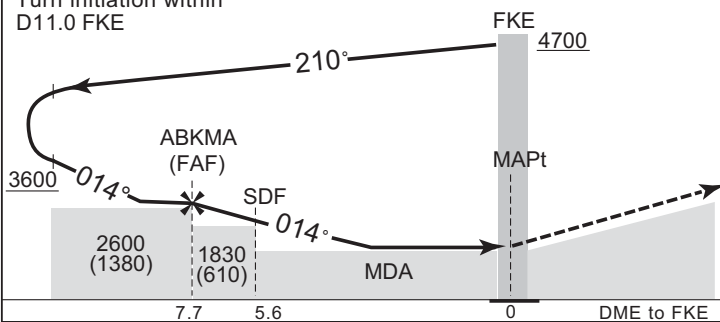
FUKUSHIMA VOR/DME
113.45 FKE
CH-81Y ㊦㊧
37°13'28"N/140°26'14"E

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

RNAV(GNSS) RWY19

Baro-VNAV not authorized below -15°C

VAR 8°W (2020)

Baro-VNAV not authorized below -15°C

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

MSA 25NM

7400
ARP

ARP : 371339N/1402541E

10NM

MATUN (IF)

4.4
280°
(272.3°T)

SF950

3.0
280°
(272.3°T)

WAKAH (IAF)

4.7
190°
(182.2°T)

KAZMI (FAF)

3.1
190°
(182.2°T)

SF951 (MAPt)

1362

SF952 (MATF)

R196

R196/D4.0
FKE

1511

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

D17.0 FKE

049°

229°

WAKAH
D11.3 FKE
MHA 5200
MAX 230KIAS

FUKUSHIMA
VOR/DME(FKE)

FUKUSHIMA
VOR/DME
(FKE)

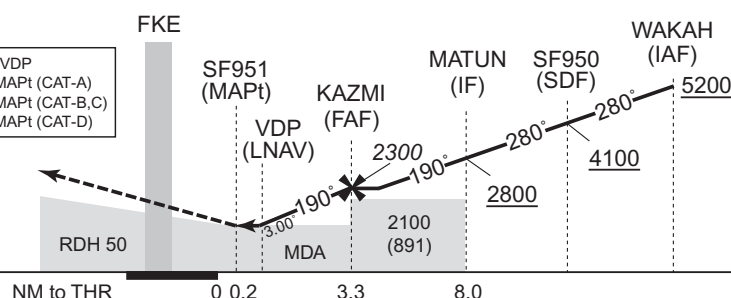
011°

191°

MHA 4700
MAX 230KIAS

MISSED APPROACH

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



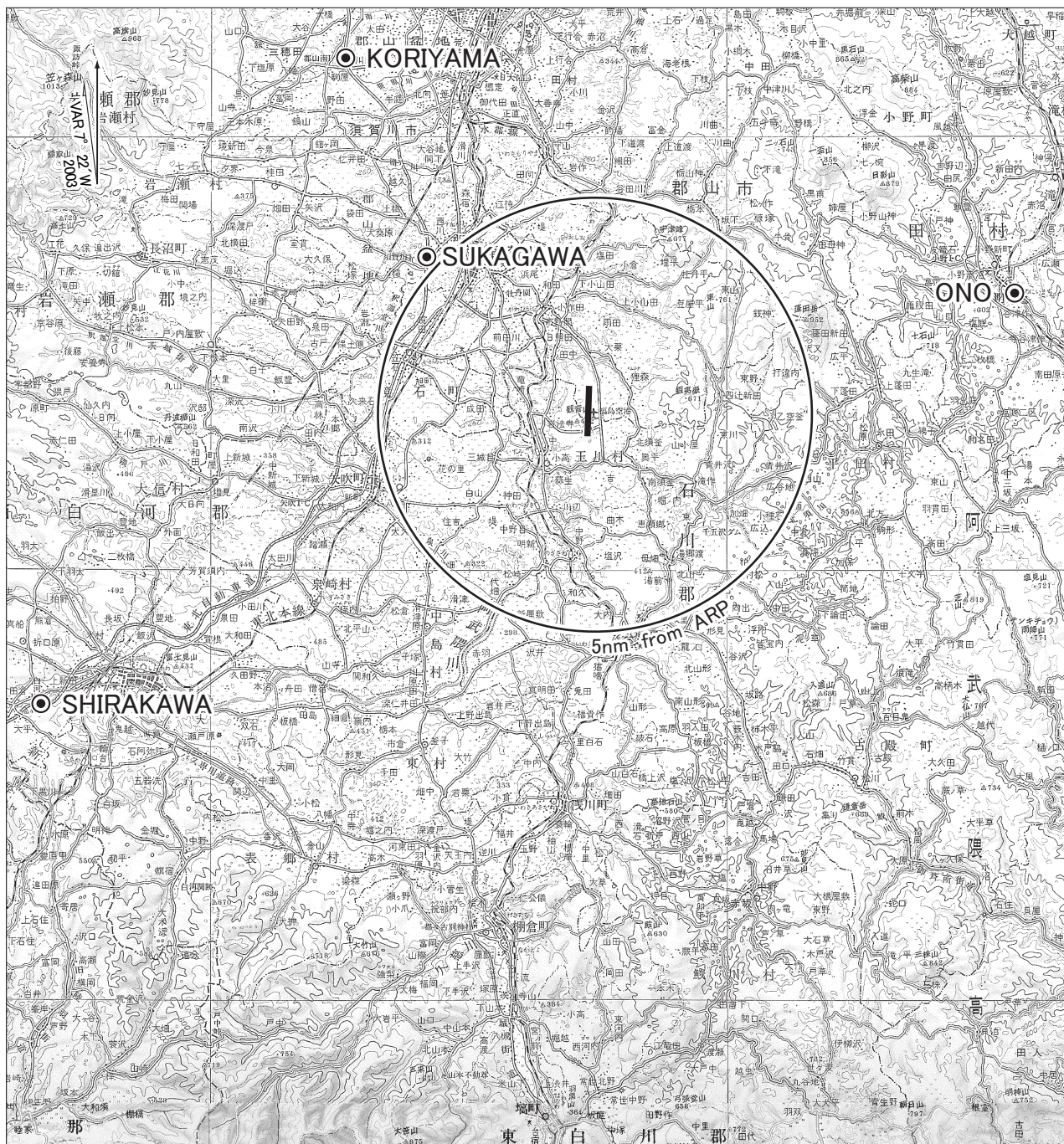
Missed APCH climb gradient MNM 3.0%

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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RJSF / FUKUSHIMA

Visual REP



Call sign	BRG / DIST from ARP	Remarks
小 野 Ono	081° /10.3NM	JR小野新町駅 Station
白 河 Shirakawa	249° /14.2NM	白河IC Interchange
須 賀 川 Sukagawa	322° /5.2NM	須賀川IC Interchange
郡 山 Koriyama	333° /10.0NM	郡山南IC Interchange



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

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Minimum Vectoring Altitude CHART

CHANGE : Shape of Minimum Vectoring Altitude.

