

RJSF / FUKUSHIMA

AD CHART



STANDARD DEPARTURE CHART-INSTRUMENT

RJSF / FUKUSHIMA

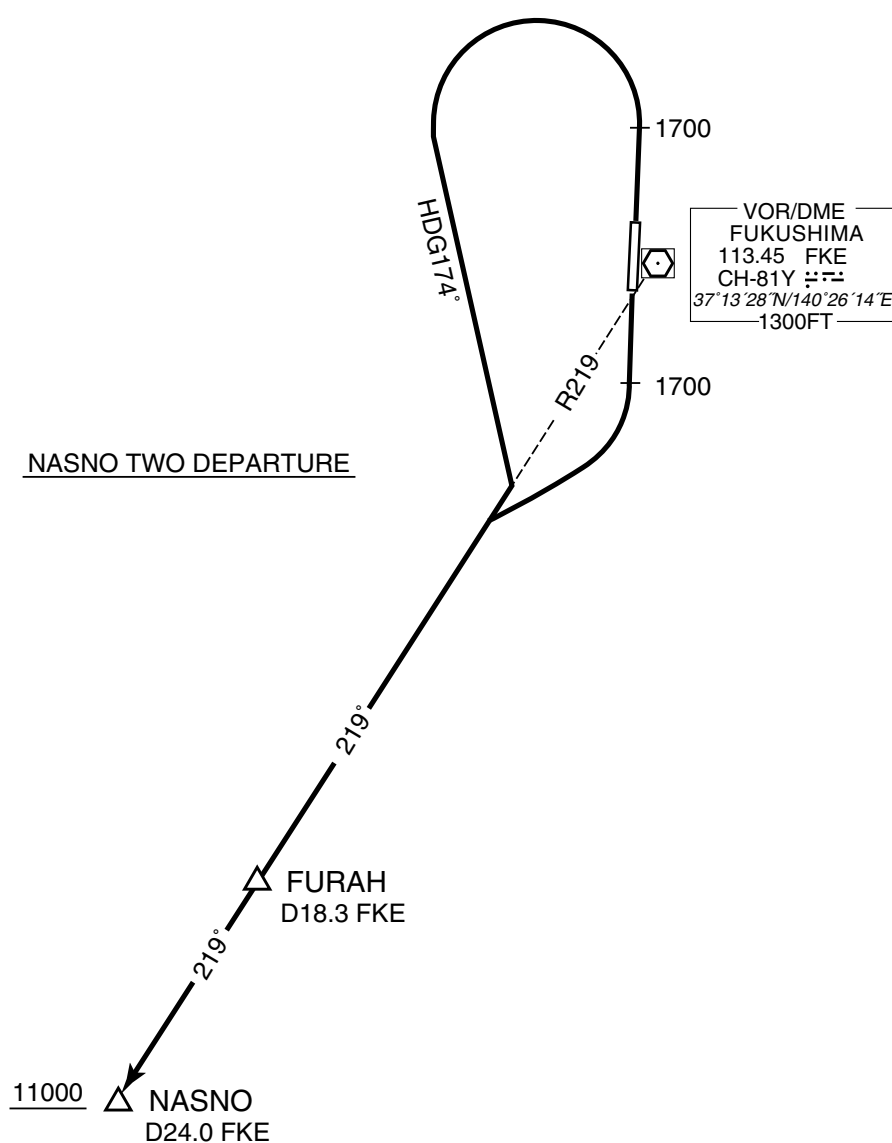
SID

NASNO TWO DEPARTURE

RWY01 : Climb RWY HDG to 1700FT, turn left HDG174°...

RWY19 : Climb RWY HDG to 1700FT, turn right...

...to intercept and proceed via FKE R219 to NASNO via FURAH.
Cross NASNO at or above 11000FT.



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SID

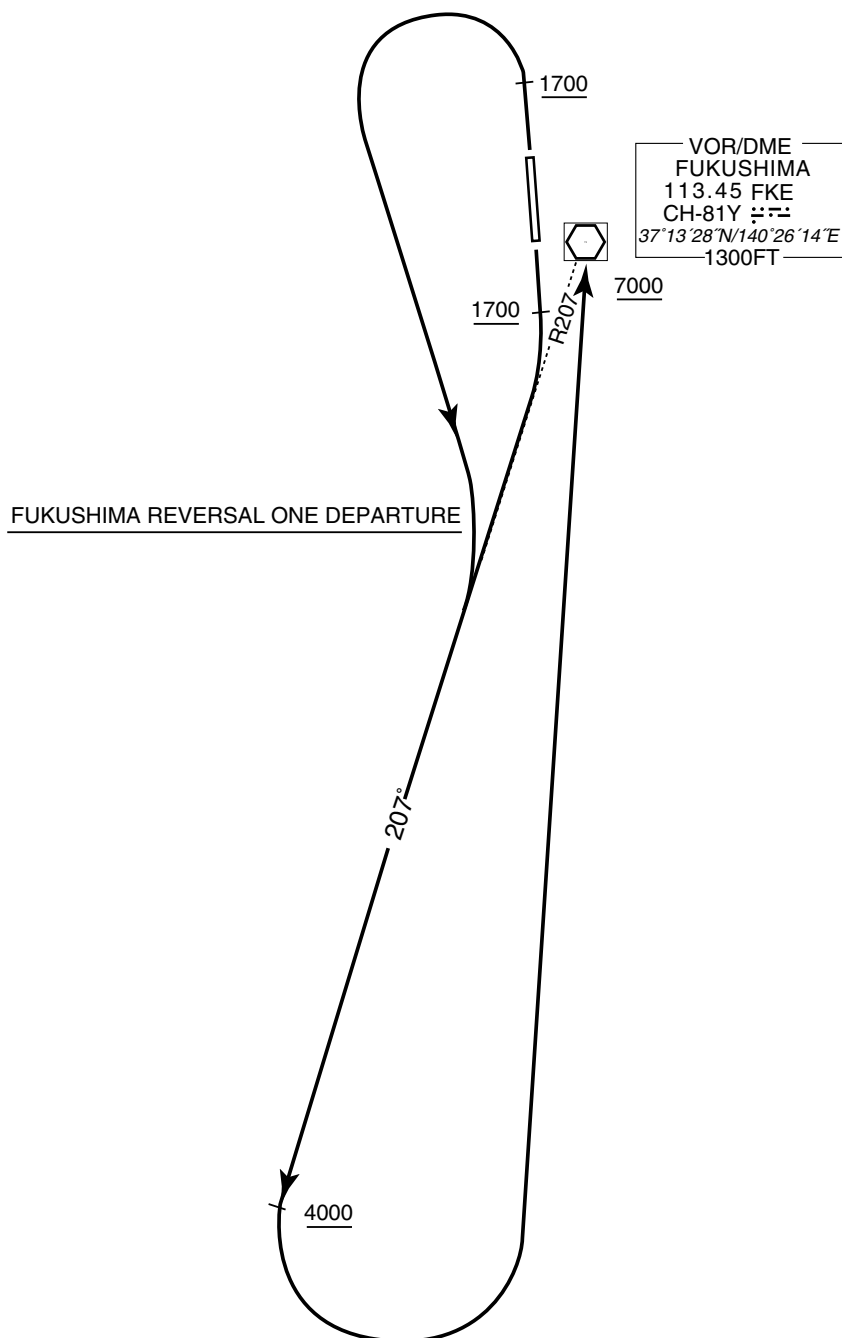
FUKUSHIMA REVERSAL ONE DEPARTURE

RWY 01 : Climb RWY HDG to 1700FT, turn left, ...

RWY 19 : Climb RWY HDG to 1700FT, turn right, ...

... via FKE R207 to 4000FT, turn left, direct to FKE VOR/DME.

Cross FKE VOR/DME at or above 7000FT.



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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.



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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

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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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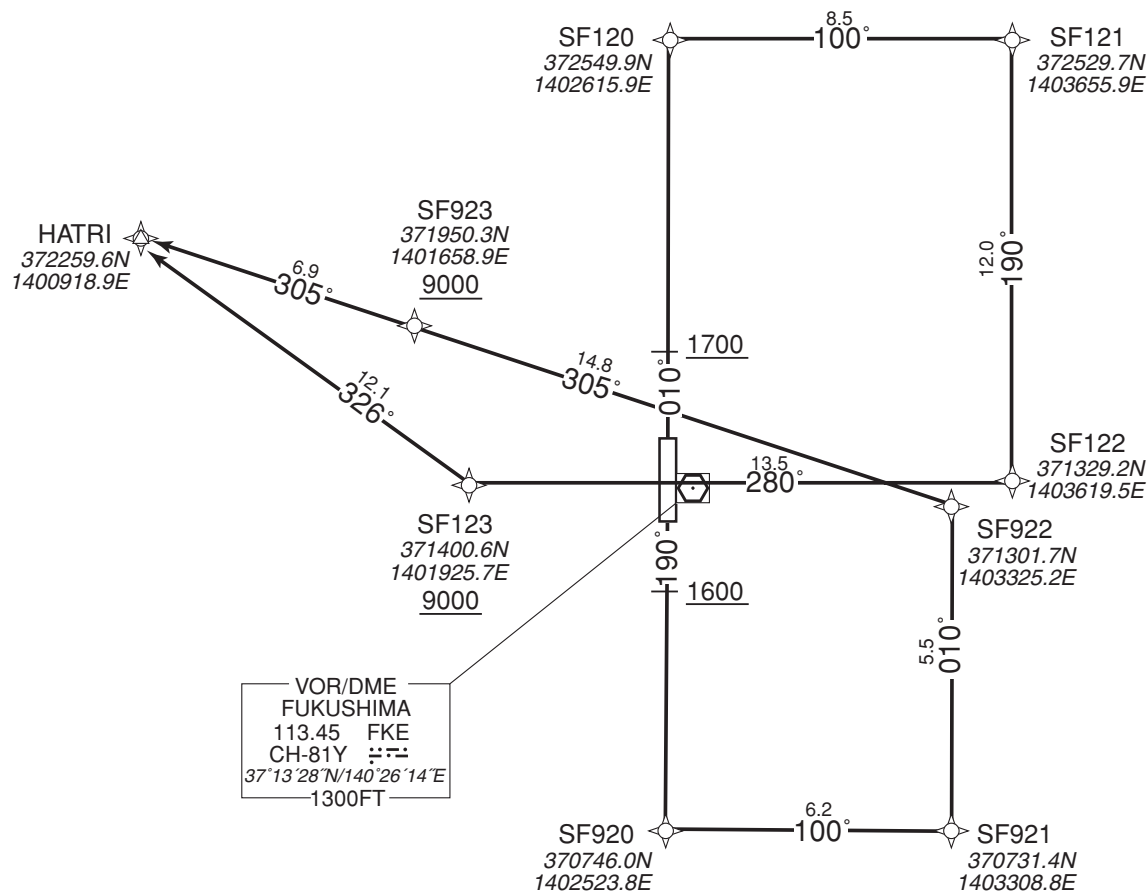
RNAV SID

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

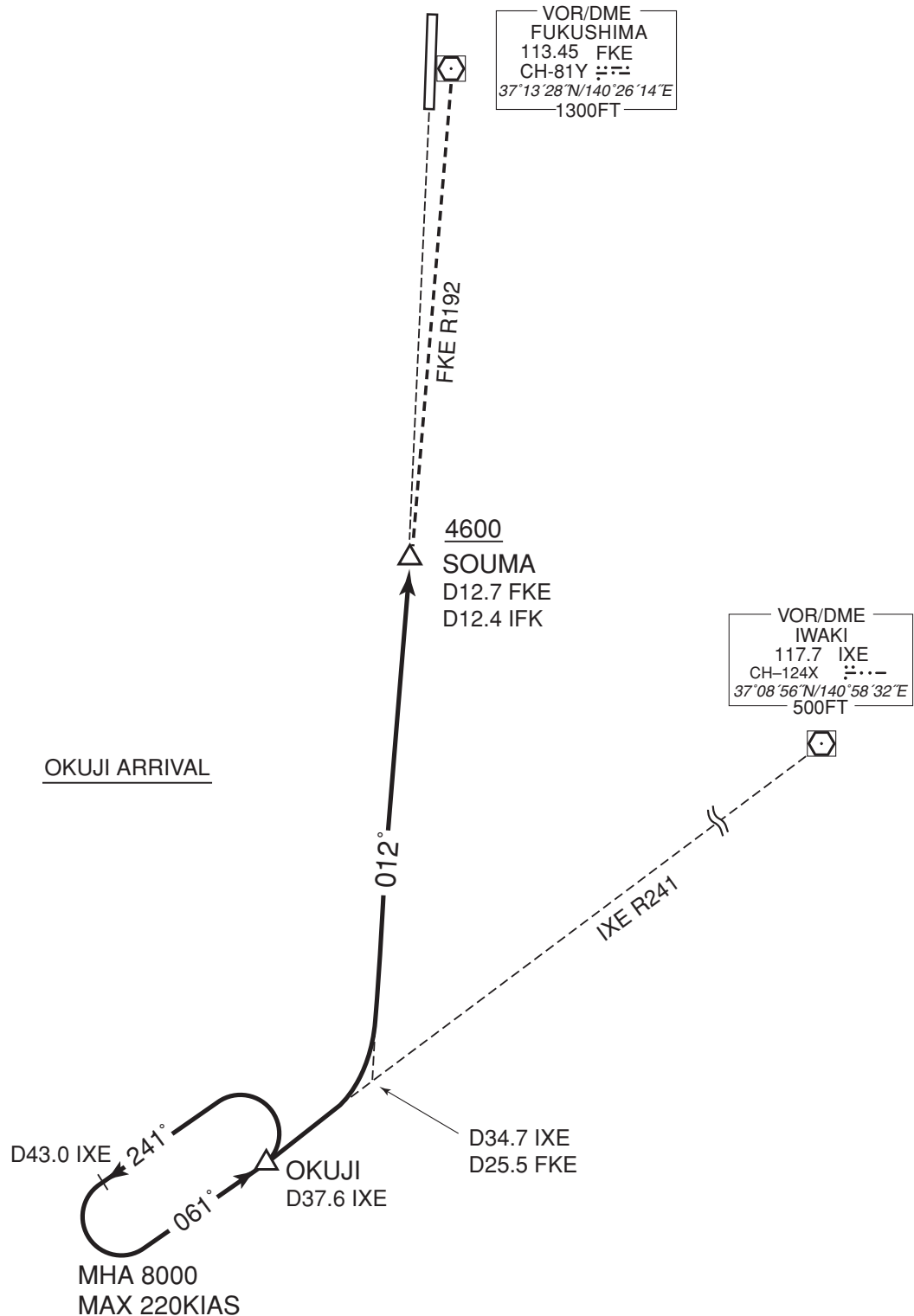
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STAR

OKUJI ARRIVAL

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

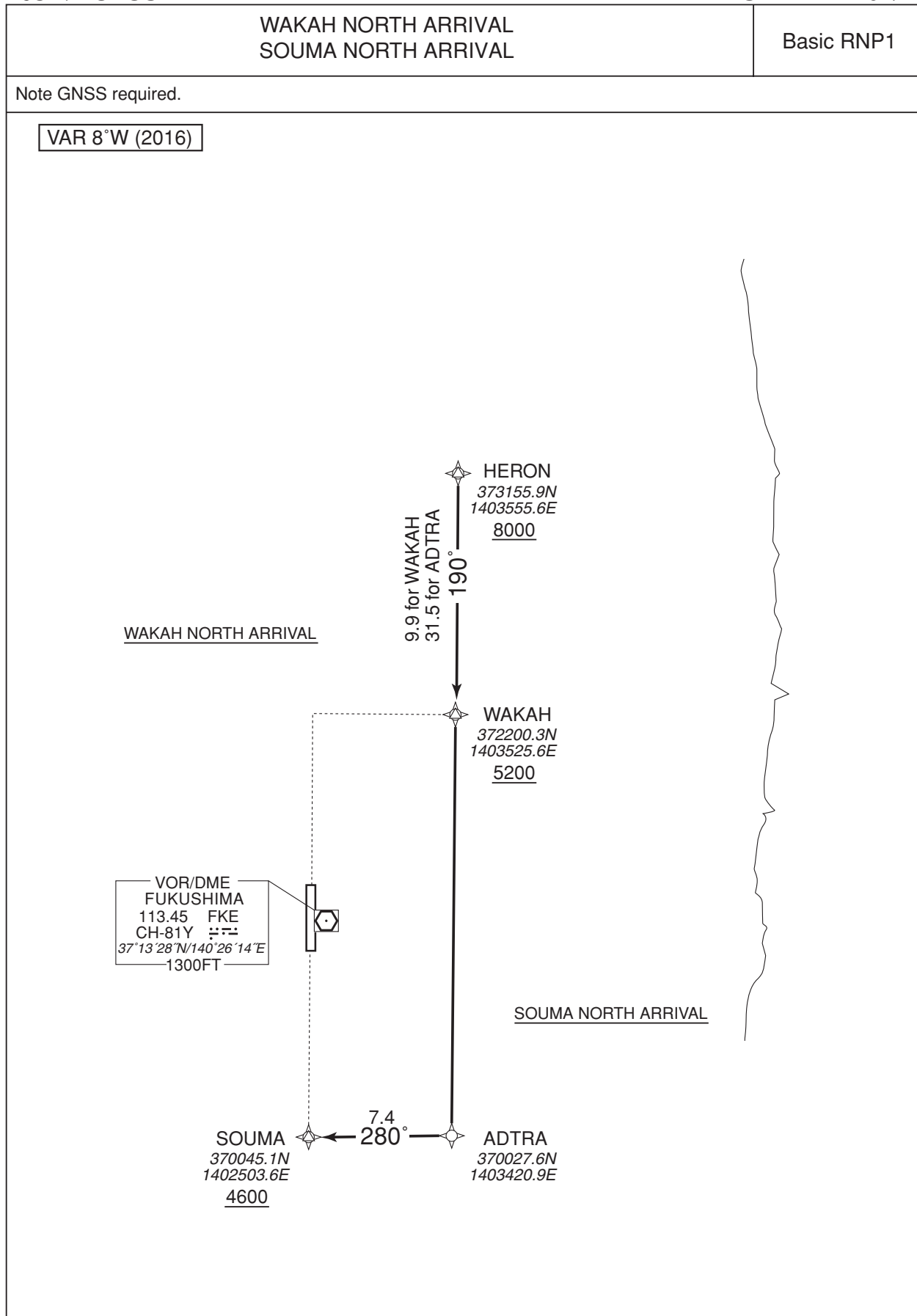
CHANGE : BRG for OKUJI HLDG Pattern, Radial FM IXE to OKUJI



STANDARD ARRIVAL CHART-INSTRUMENT

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RNAV STAR RWY01/19



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

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RNAV STAR RWY01/19

WAKAH SOUTH ARRIVAL
SOUMA SOUTH ARRIVAL

Basic RNP1

Note GNSS required.

VAR 8°W (2016)



STANDARD ARRIVAL CHART-INSTRUMENT

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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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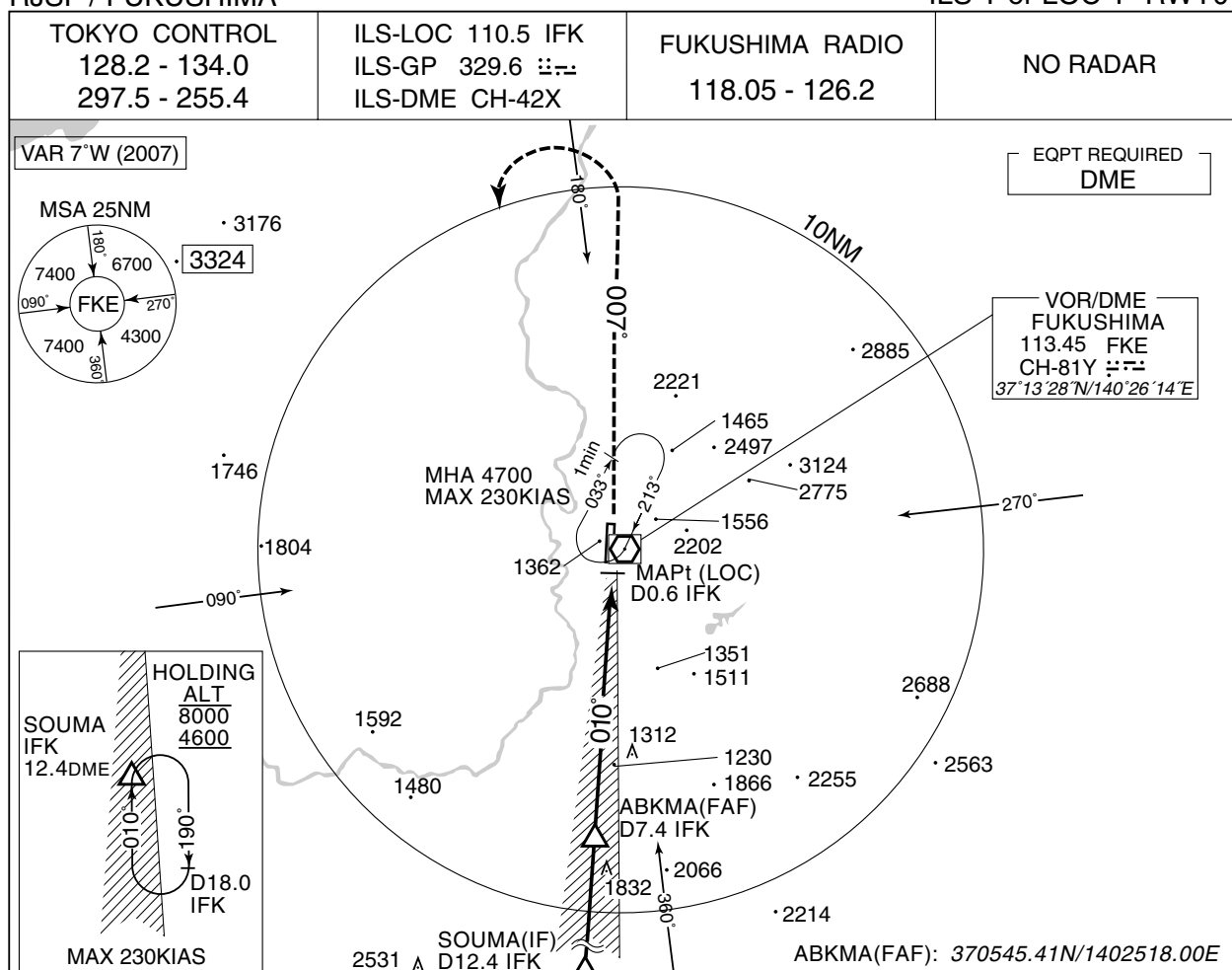
ILS Z or LOC Z RWY01



INSTRUMENT APPROACH CHART

RJSF / FUKUSHIMA

ILS Y or LOC Y RWY01

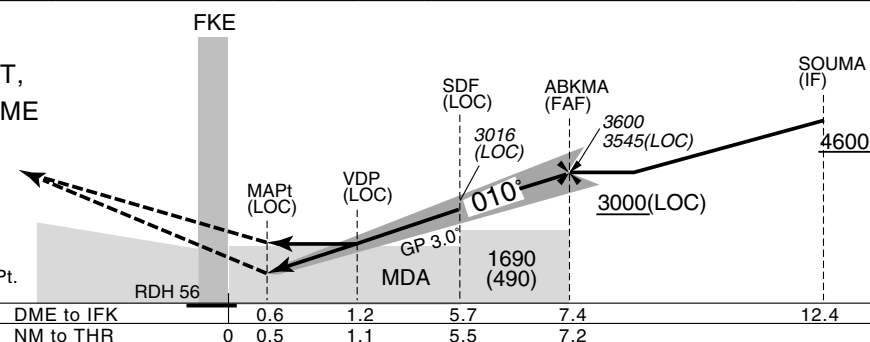


MISSED APPROACH

Climb via FKE R007 to 3000FT,
turn left, direct to FKE VOR/DME
hold at 4700FT.

Contact FUKUSHIMA RADIO.

Timing not authorized for defining the MAPt.



Missed APCH climb gradient MNM 4.0%

MINIMA THR elev. 1200 AD elev. 1220

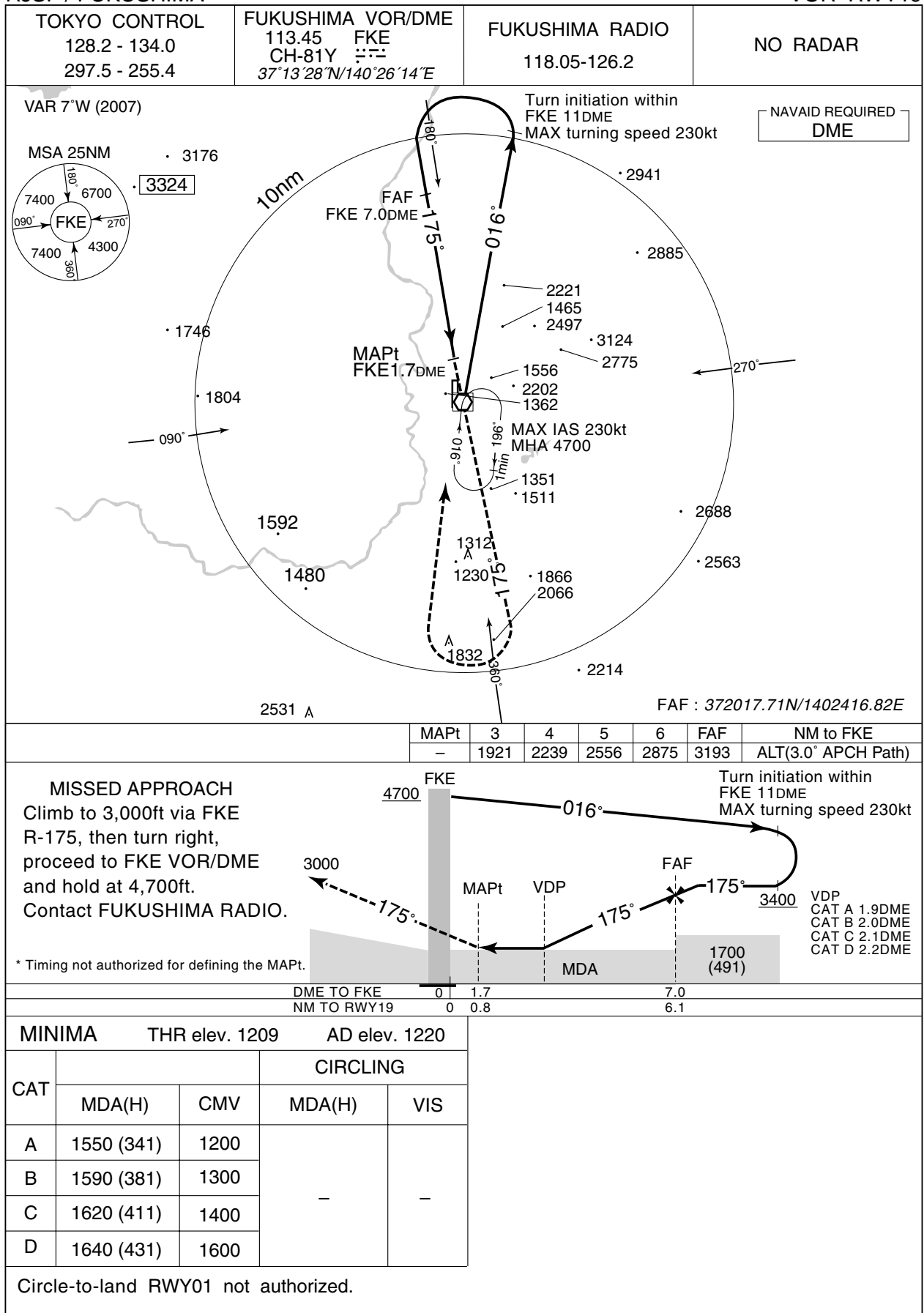
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	1400 (200)	550	1560 (360)	900	-	-
B				1000		
C				1000		
D				1400		

Missed APCH climb gradient of 4.0% up to 3000FT.
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circle-to-land RWY19 not authorized.

INSTRUMENT APPROACH CHART

RJSF / FUKUSHIMA

VOR RWY19



INSTRUMENT APPROACH CHART

RJSF / FUKUSHIMA

VOR A



RJSF / FUKUSHIMA

TOKYO CONTROL
128.2 - 134.0
297.5 - 255.4

FUKUSHIMA RADIO
118.05 - 126.2

NO RADAR

Baro-VNAV not authorized below -15°C

VAR 8°W (2016)

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

MSA 25NM
7400
ARP
ARP: 371339N/1402541E

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

D17.0 FKE
WAKAH D11.3 FKE
MHA 5200
MAX 230KIAS
FUKUSHIMA VOR/DME(FKE)

FUKUSHIMA VOR/DME (FKE)
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
0.8NM to THR (CAT A)
0.9NM to THR (CAT B,C)
1.0NM to THR (CAT D)

FKE
SF951 (MAPt)
KAZMI (FAF)
MATUN (IF)
SF950 (SDF)
WAKAH (IAF)

VDP (LNAV)
2300
2800
4100
5200

RDH 50
MDA
2100 (891)

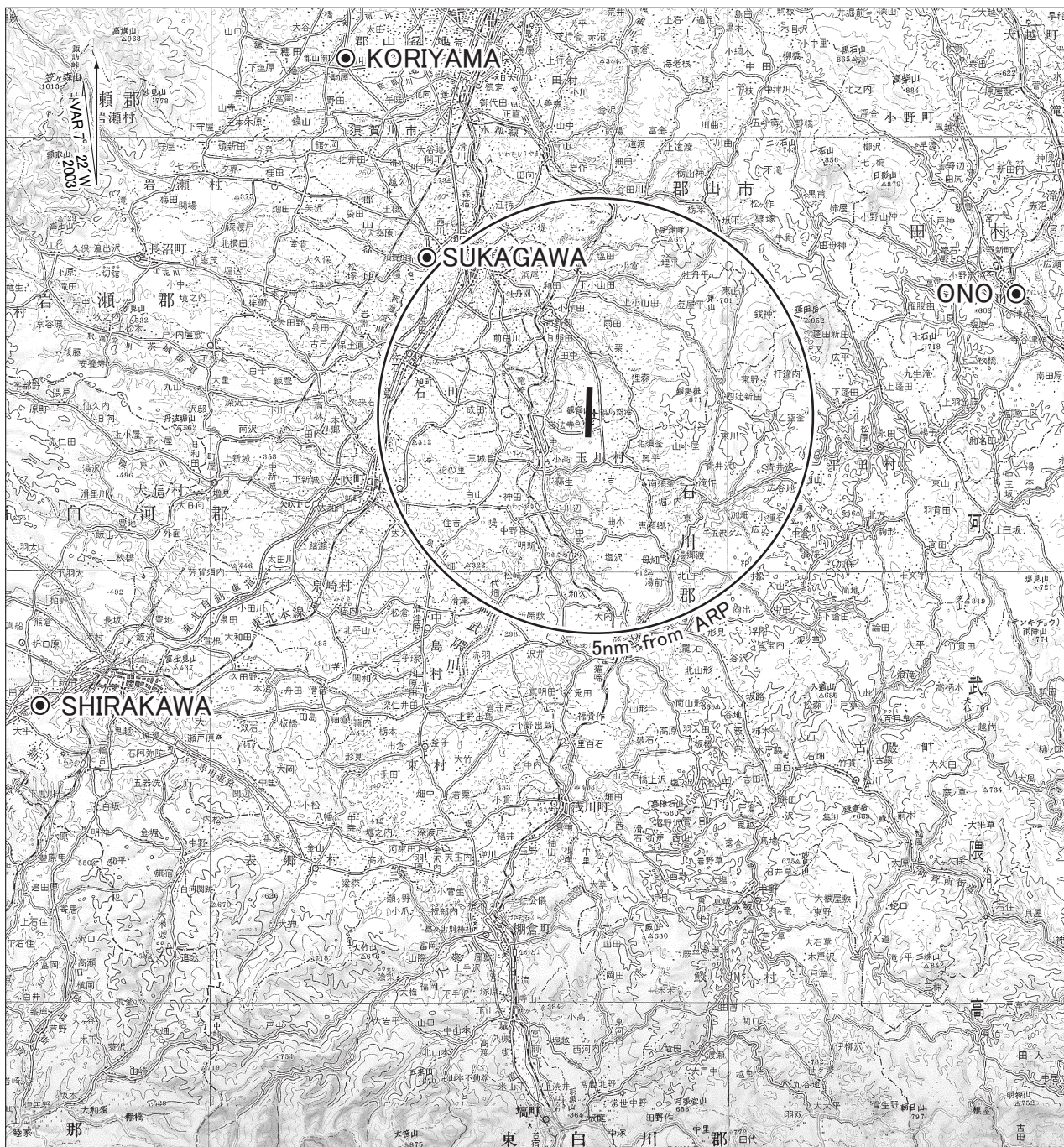
NM to THR
0 0.2 3.3 8.0

MINIMA		THR elev.1209		AD elev.1220		
CAT	LNAV/VNAV	LNAV		CIRCLING		
	DA(H)	CMV	MDA(H)	CMV	VIS	
A	1520 (311)	1200	1520 (311)	1200	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.

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

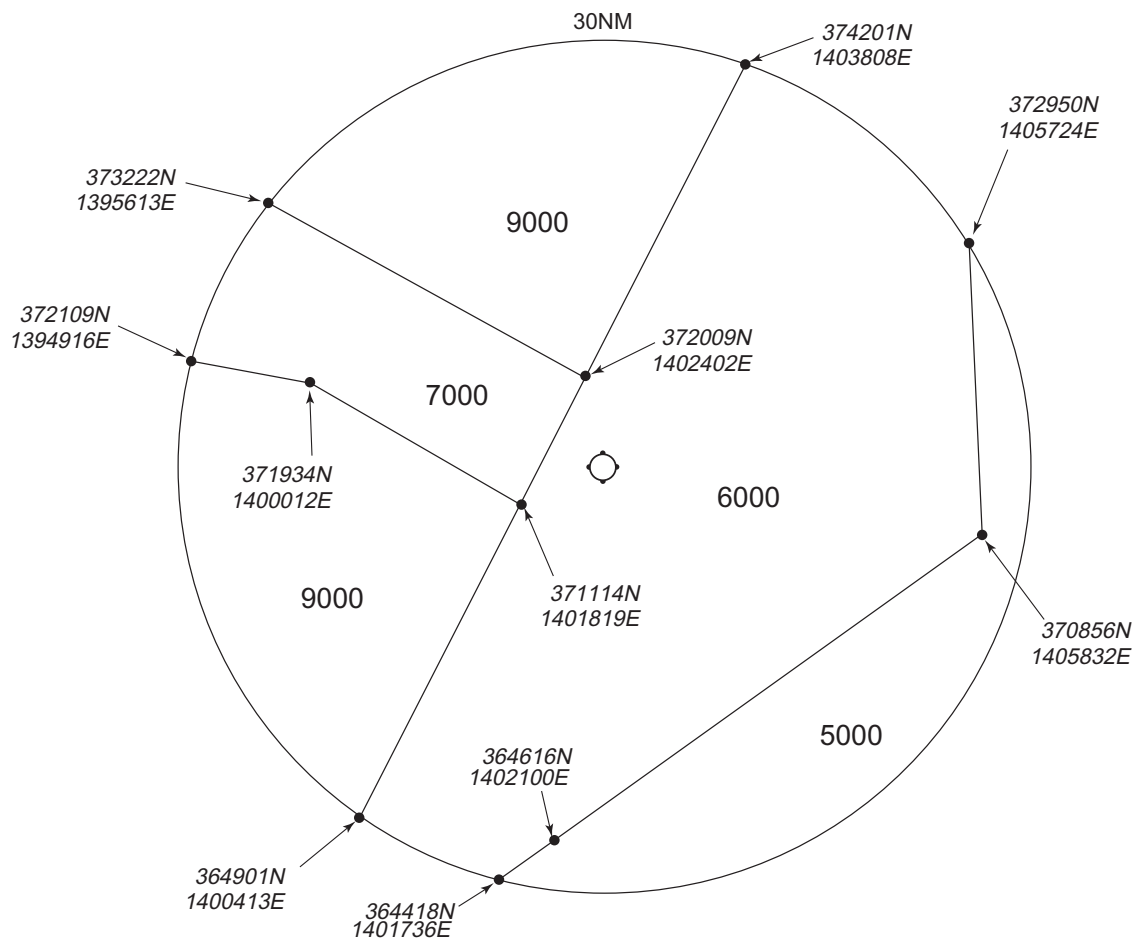


Note : RWY may be invisible on down-wind leg of westside traffic pattern depending on altitude.

RJSF / FUKUSHIMA

Minimum Vectoring Altitude CHART

CHANGE : Shape of Minimum Vectoring Altitude.



CENTER : 371339N/1402541E (ARP)