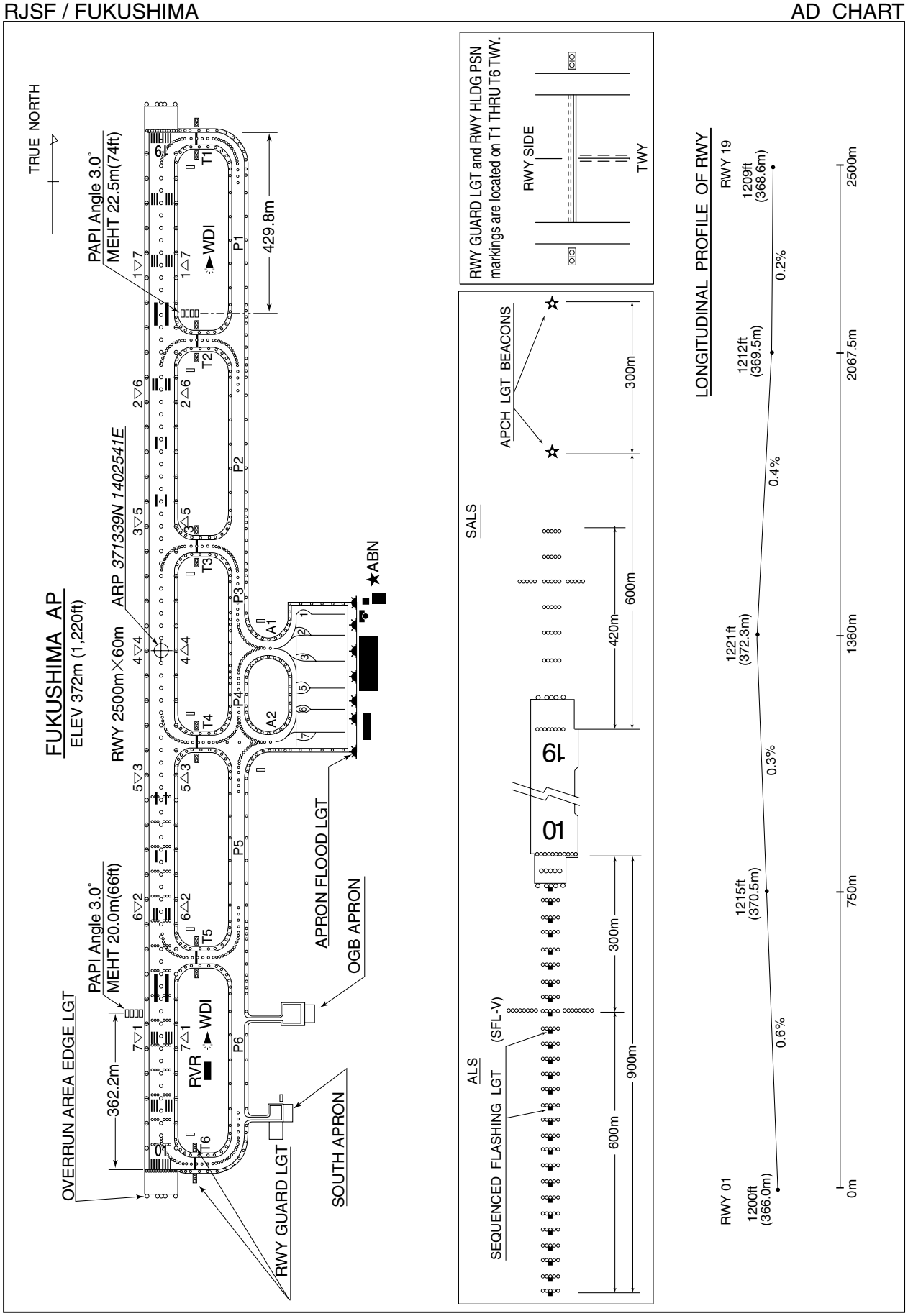
RJSF / FUKUSHIMA AD CHART



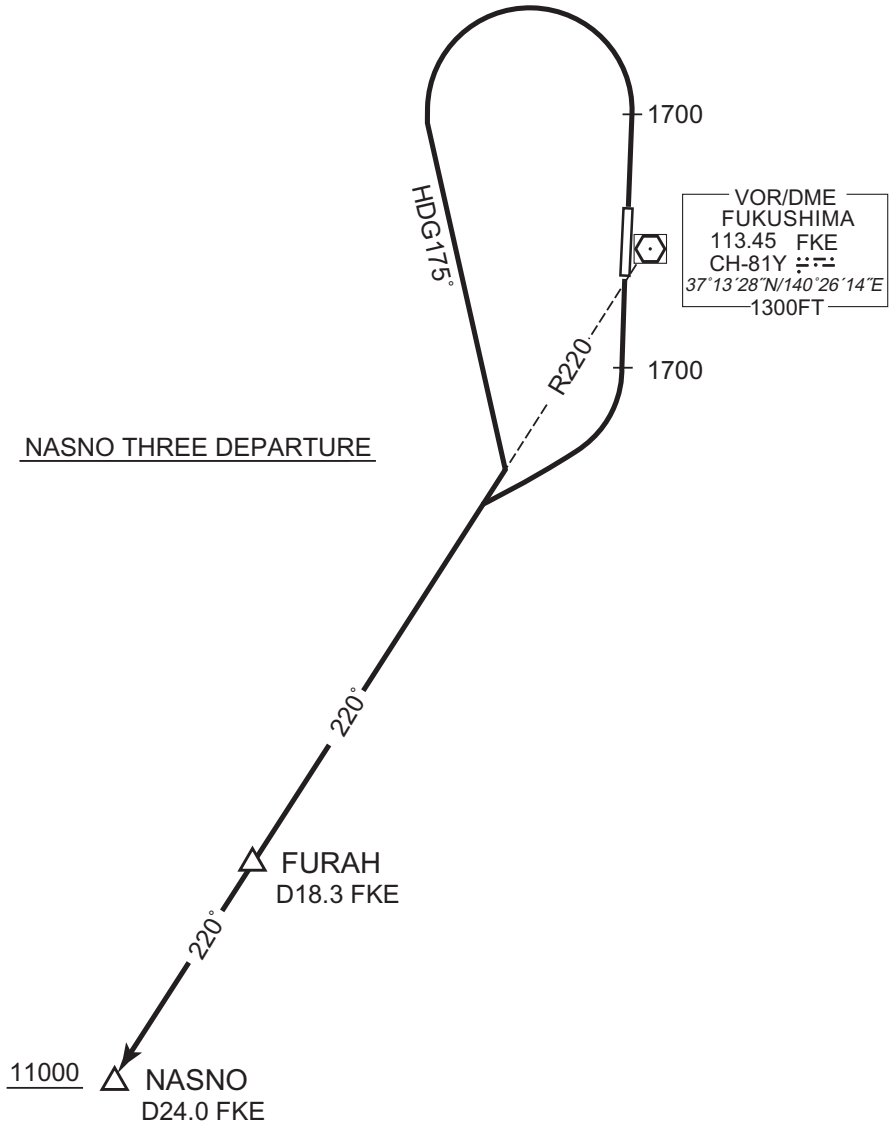
STANDARD DEPARTURE CHART-INSTRUMENT

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.

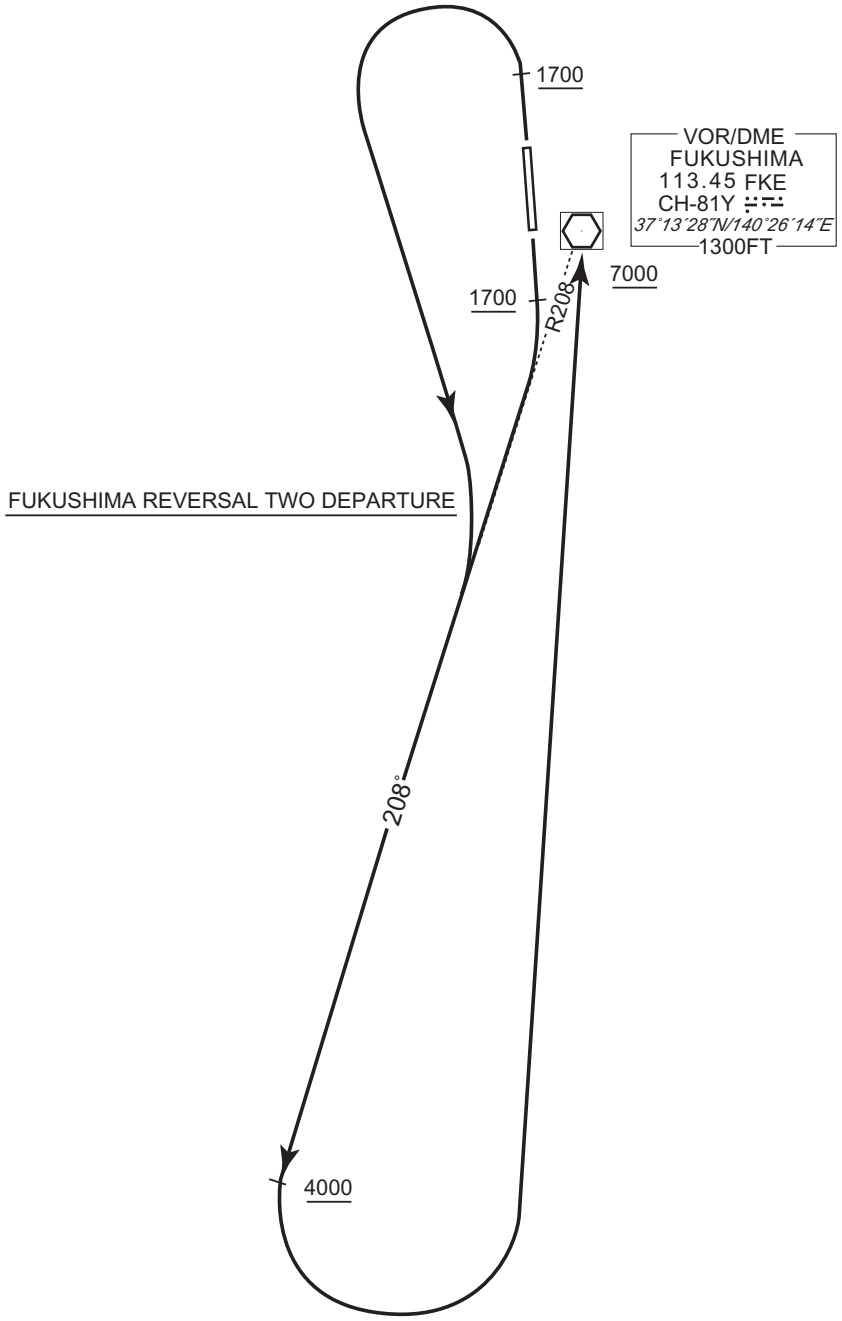
STANDARD DEPARTURE CHART-INSTRUMENT

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.



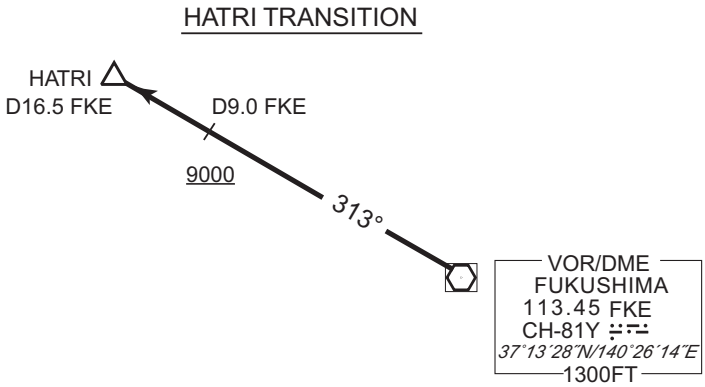
CHANGE : PROC renamed. Radial FM FKE.

STANDARD DEPARTURE CHART-INSTRUMENT

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).

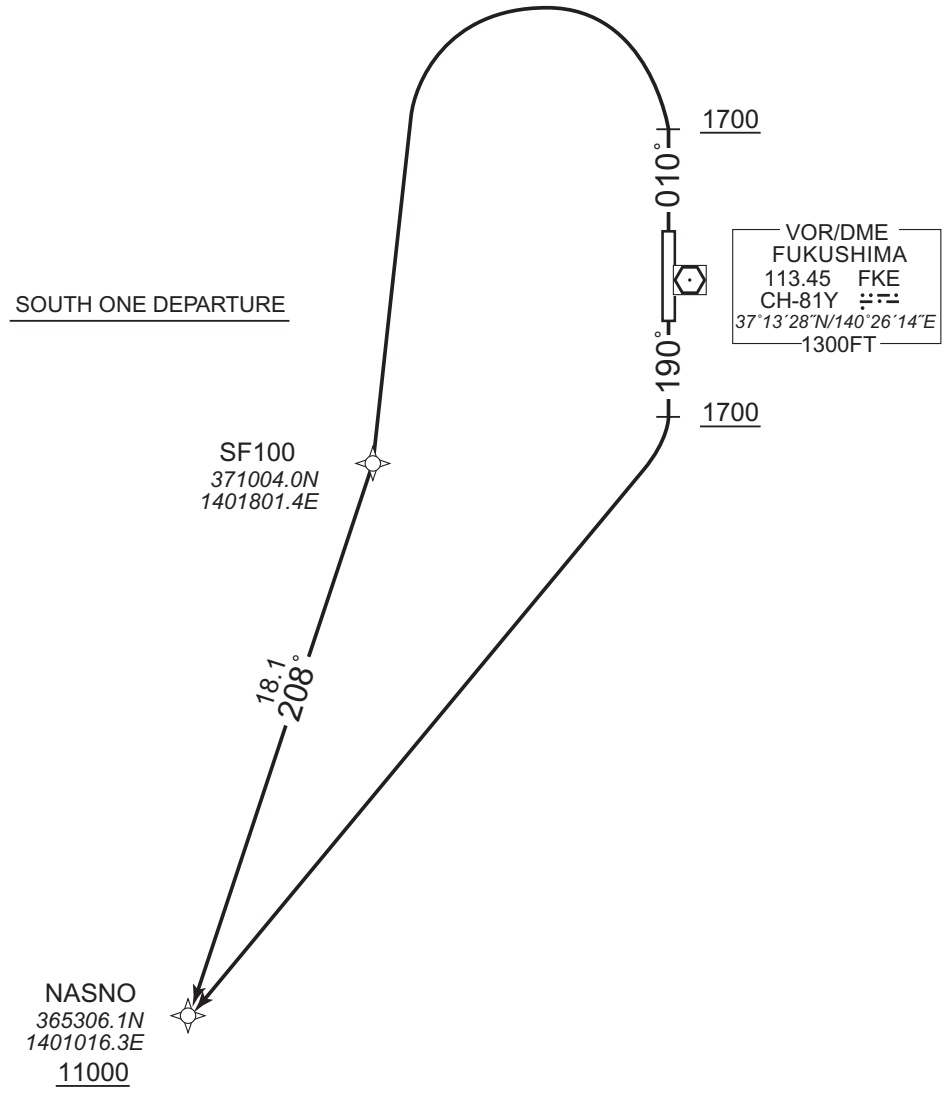
STANDARD DEPARTURE CHART-INSTRUMENT

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

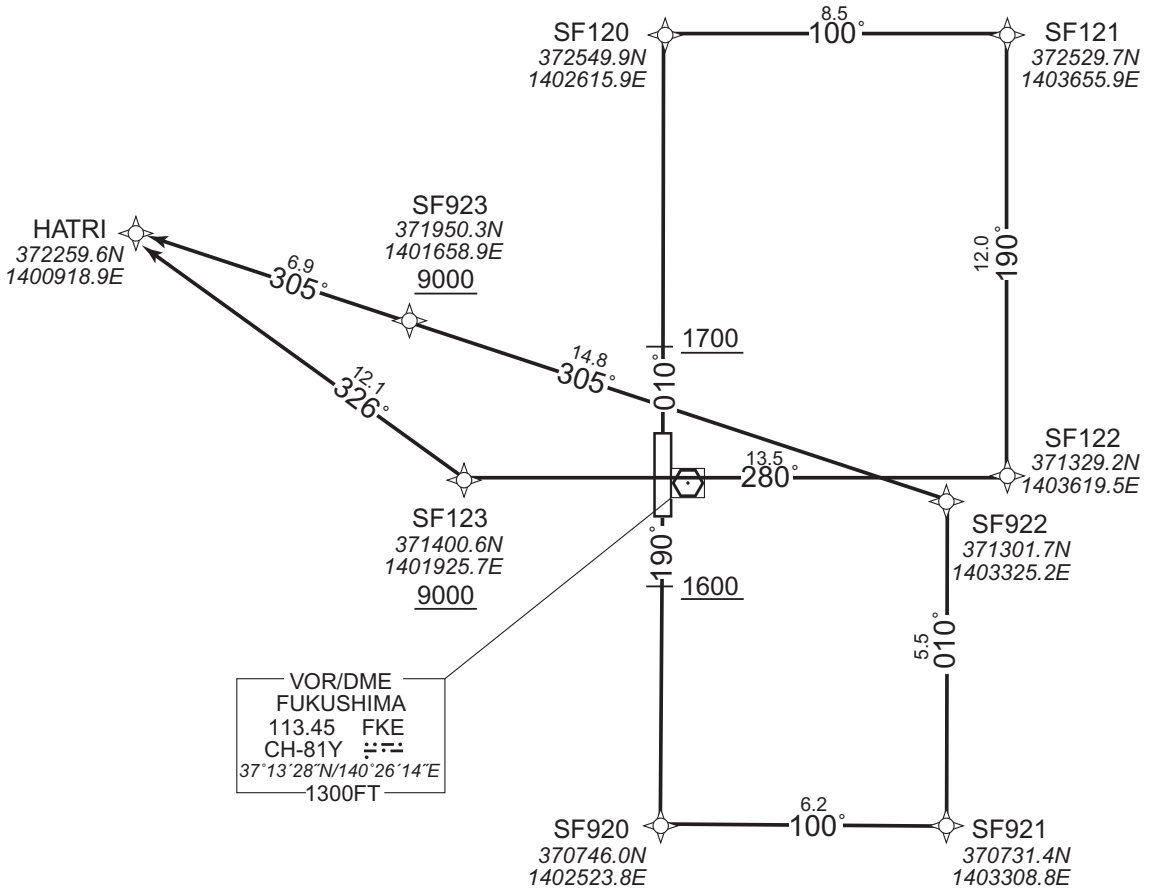
RJSF / FUKUSHIMA RNAV SID

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

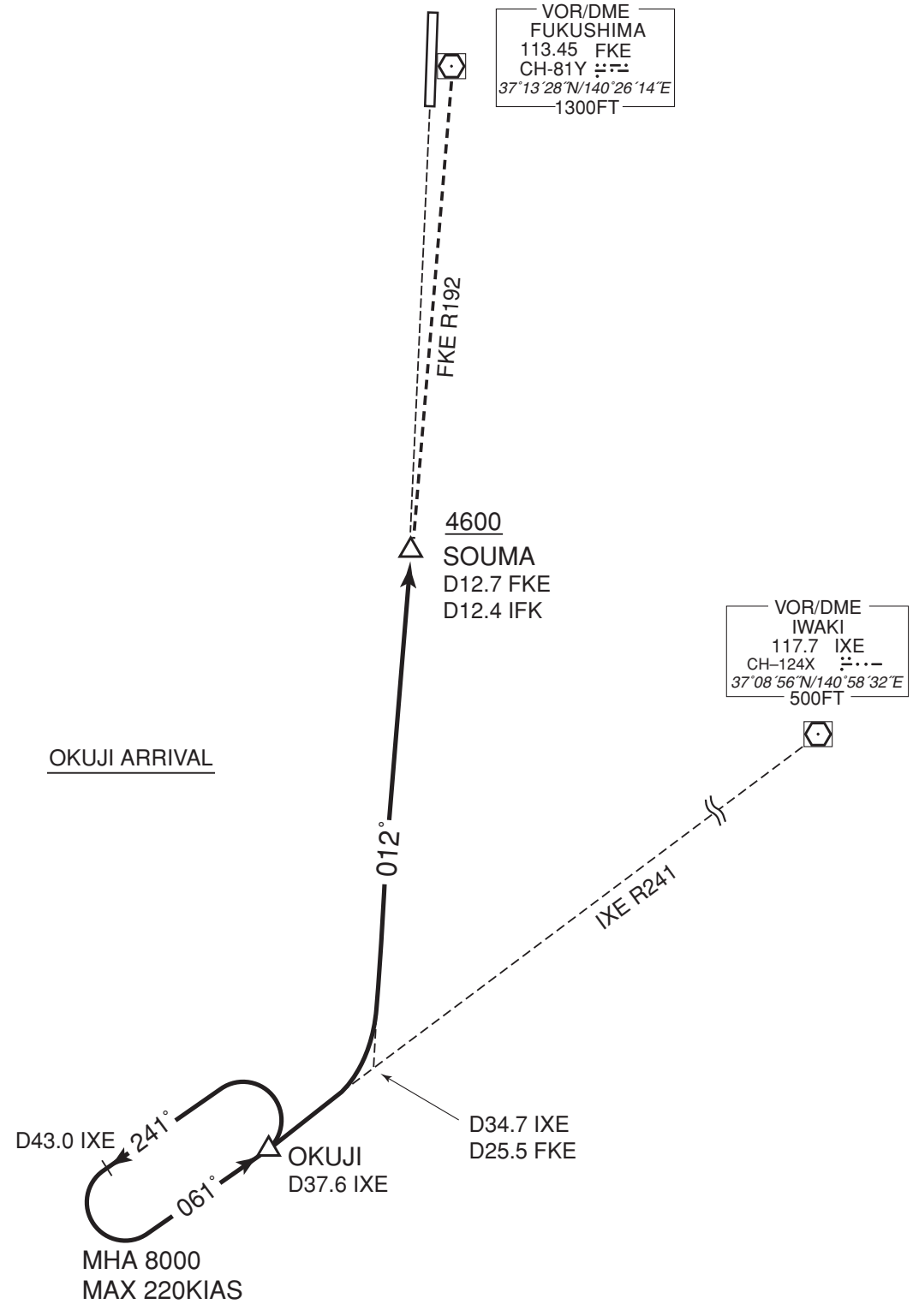
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	190 (182.2)	-7.8	–	–	+1600	–	–	Basic RNP1
002	DF	SF920	–	–	-7.8	–	–	–	–	–	Basic RNP1
003	TF	SF921	–	100 (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.



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

STANDARD ARRIVAL CHART-INSTRUMENT

RJSF / FUKUSHIMA

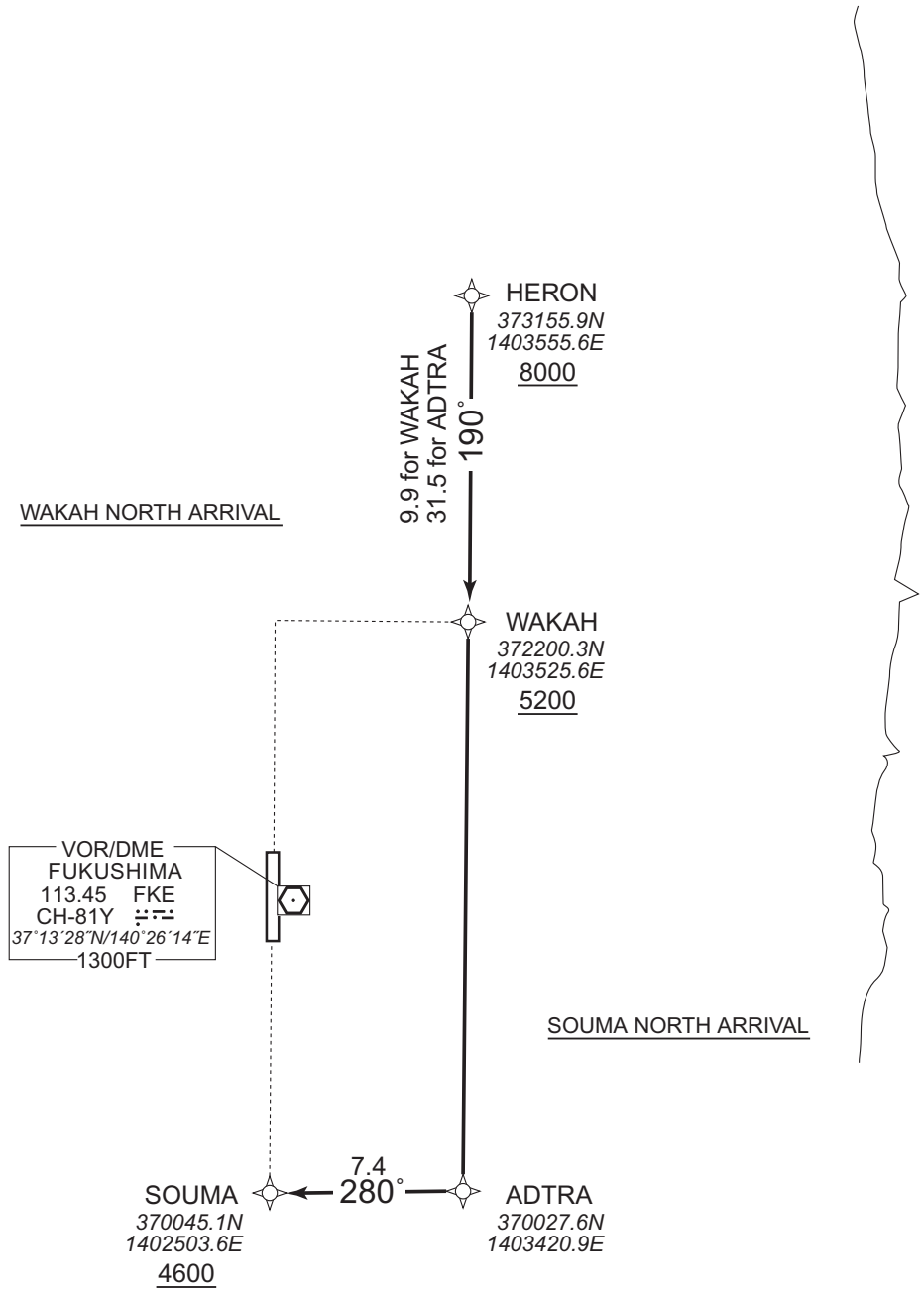
RNAV STAR RWY01/19

WAKAH NORTH ARRIVAL
SOUMA NORTH ARRIVAL

Basic RNP1

Note GNSS required.

VAR 8˚W (2016)



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

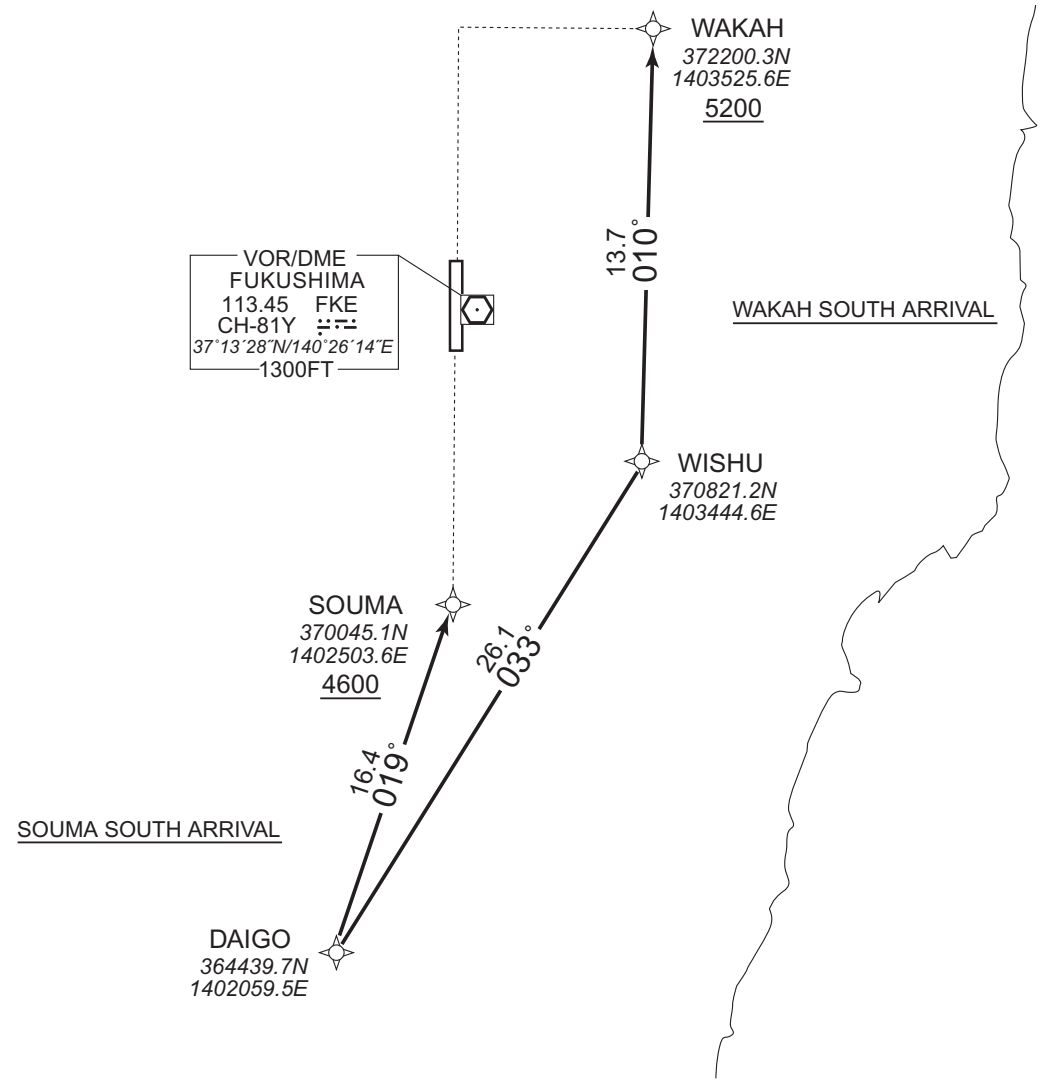
RJSF / FUKUSHIMA

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

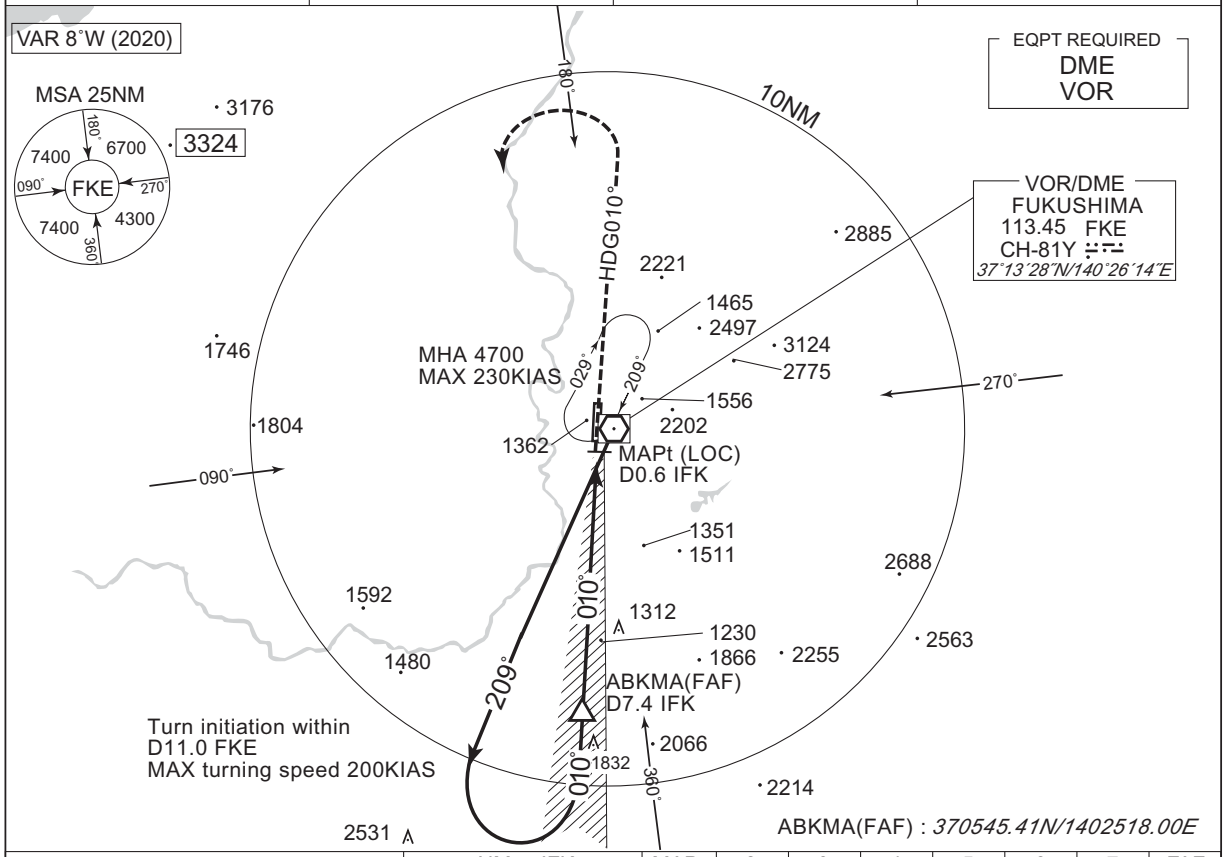
From DAIGO, to SOUMA at or above 4600FT.

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

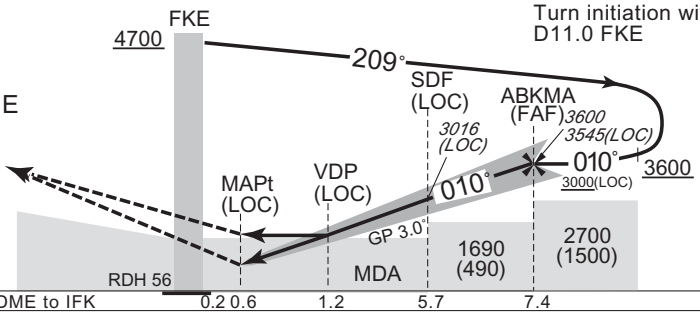
TOKYO CONTROL	ILS-LOC 110.5 IFK	FUKUSHIMA RADIO	NO RADAR
128.2 - 134.0 297.5 - 255.4	ILS-GP 329.6 ILS-DME CH-42X	118.05 - 126.2	



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

MISSED APPROACH
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
NM to THR	0	0.5	1.1	5.5	7.2

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						2400
D				1400	1770(550)	3200

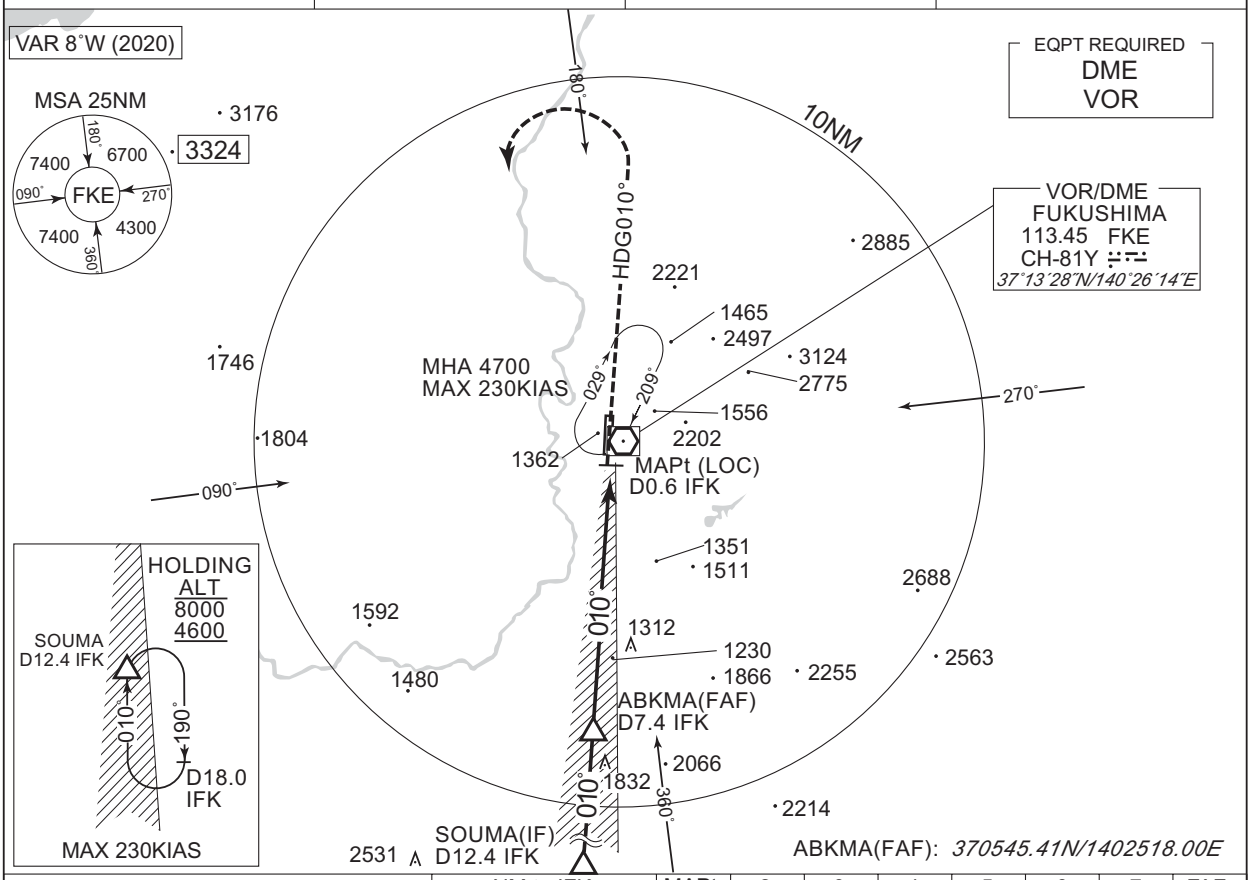
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to WEST side of RWY only.

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

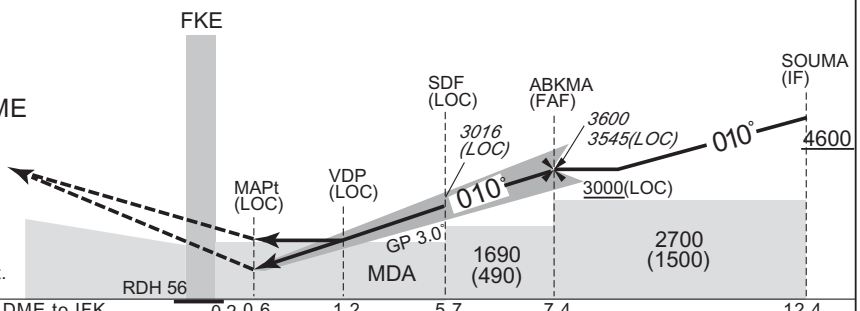
TOKYO CONTROL	ILS-LOC 110.5 IFK	FUKUSHIMA RADIO	NO RADAR
128.2 - 134.0 297.5 - 255.4	ILS-GP 329.6 ⁝⁝⁝ ILS-DME CH-42X	118.05 - 126.2	



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

MISSED APPROACH
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						2400
D				1400	1770(550)	3200

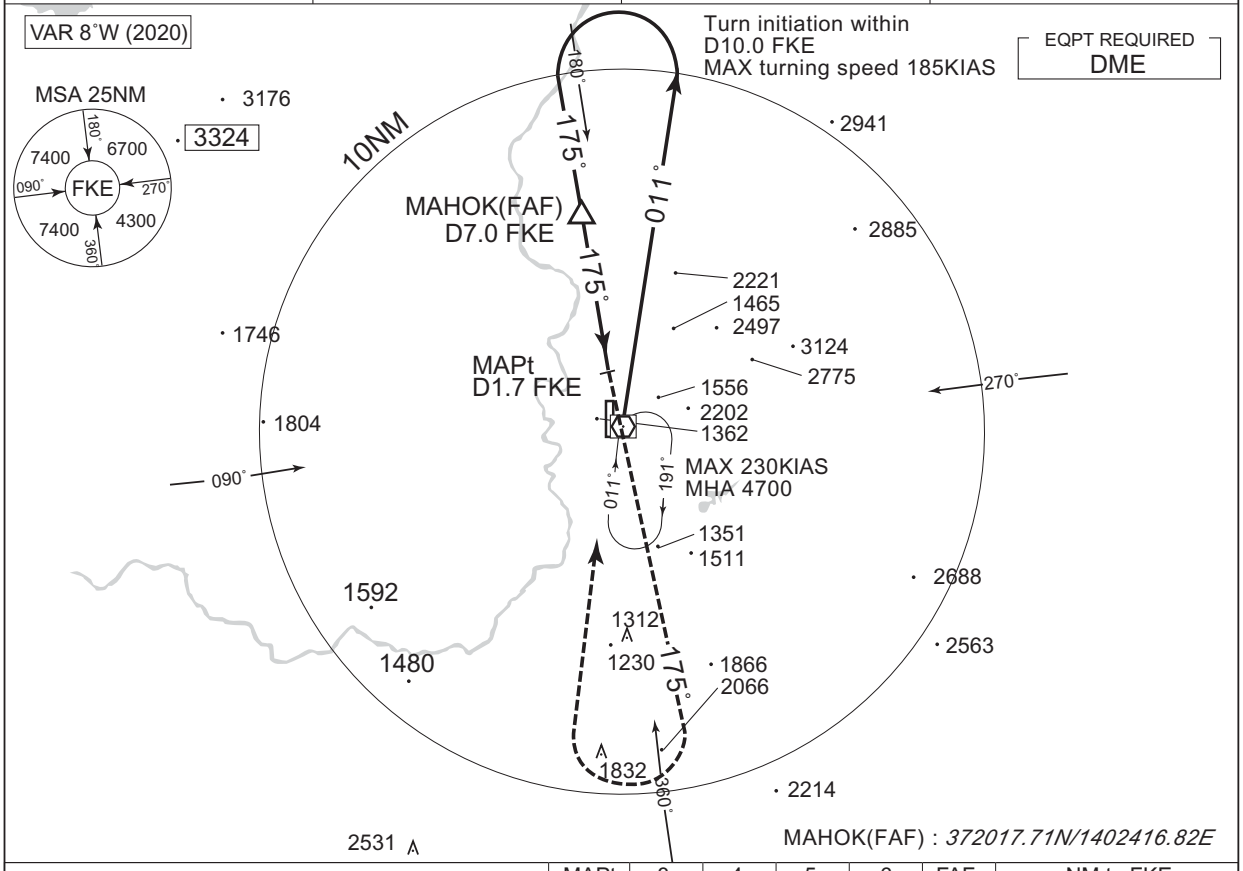
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to WEST side of RWY only.

CHANGE : VAR. Missed APCH course. MINIMA for circling established. HLDG course. Additional EQPT requirements. OCA added. Circling restriction.

INSTRUMENT APPROACH CHART

RJSF / FUKUSHIMA — VOR RWY19

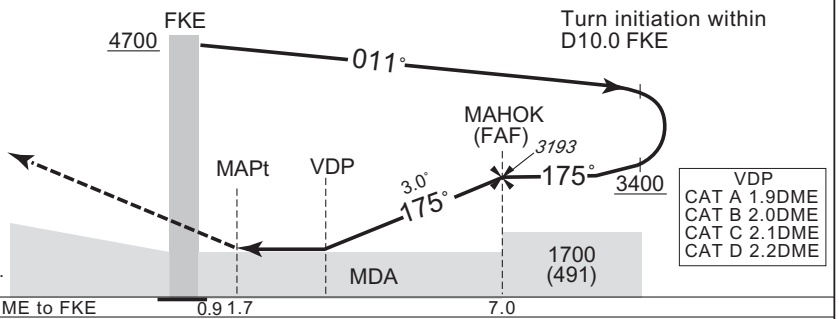
TOKYO CONTROL	FUKUSHIMA VOR/DME	FUKUSHIMA RADIO	NO RADAR
128.2 - 134.0 297.5 - 255.4	113.45 FKE CH-81Y *37°13′28″N/140°26′14″E*	118.05-126.2	



MAPt	3	4	5	6	FAF	NM to FKE
–	1921	2239	2556	2875	3193	ALT(3.0° APCH Path)

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.



DME to FKE		0.9	1.7	7.0
NM to THR		0	0.8	6.1

MINIMA THR elev. 1209 AD elev. 1220

CAT			CIRCLING	
	MDA(H)	CMV	MDA(H)	VIS
A	1550 (341)	1200	1670(450)	1600
B	1590 (381)	1300		
C	1620 (411)	1400		2400
D	1640 (431)	1600	1770(550)	3200

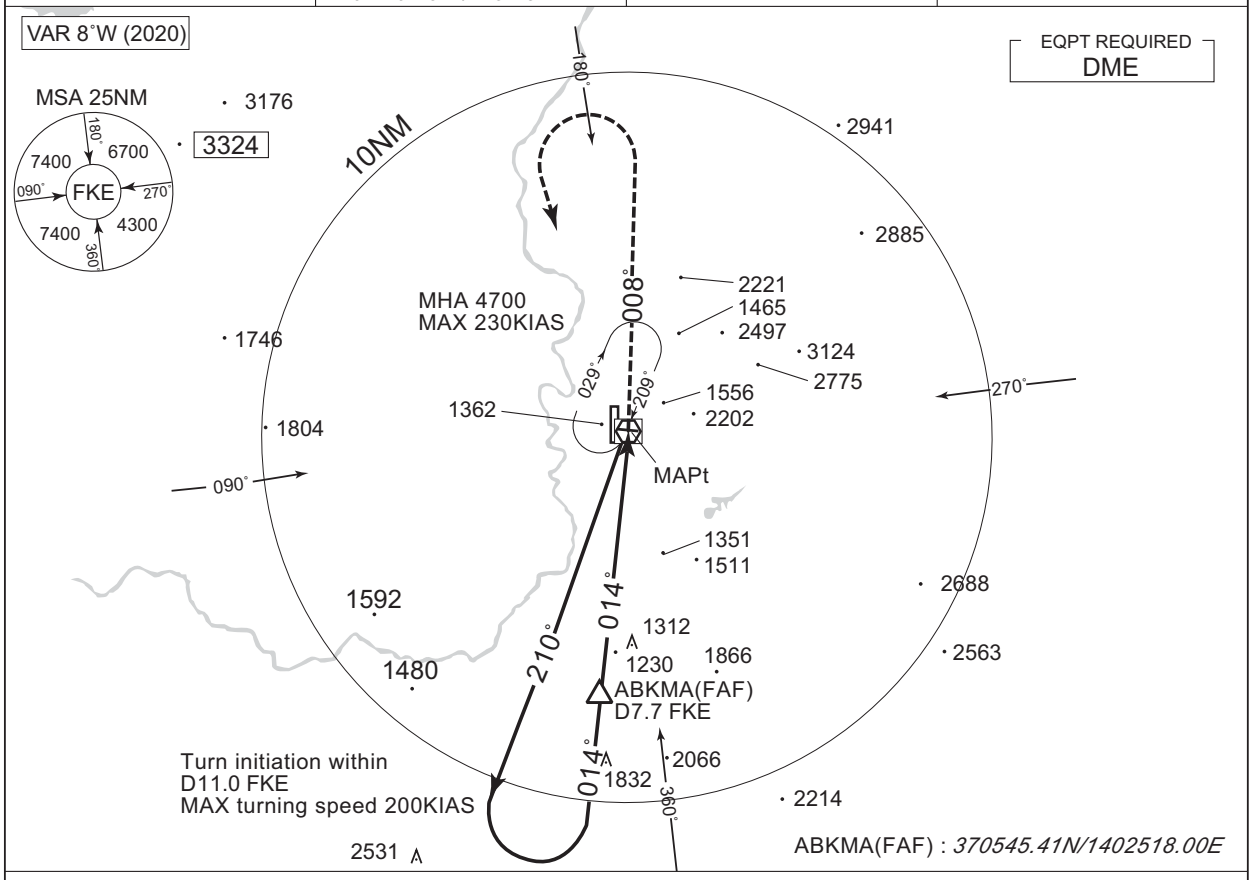
Circling to WEST side of RWY only.

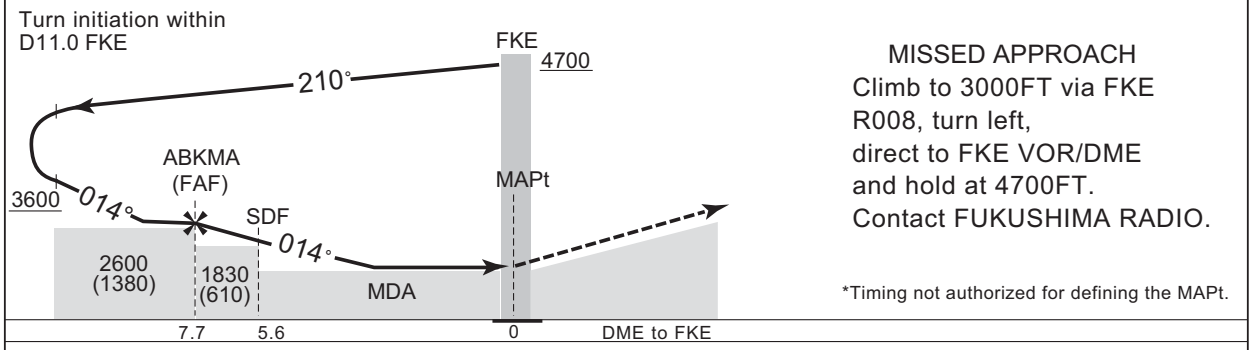
CHANGE : VAR. PROC course. MAHOK(FAF) established. Turn initiation. MAX turning speed. MINIMA for circling established. HLDG course. Circling restriction.

INSTRUMENT APPROACH CHART

RJSF / FUKUSHIMA VOR A

TOKYO CONTROL	FUKUSHIMA VOR/DME	FUKUSHIMA RADIO	NO RADAR
128.2 - 134.0 297.5 - 255.4	113.45 FKE CH-81Y *37°13′28″N/140°26′14″E*	118.05 - 126.2	





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.

CHANGE : VAR. PROC course. MAX turning speed. Missed APCH course. HLDG course. OCA. Circling restriction.

INSTRUMENT APPROACH CHART

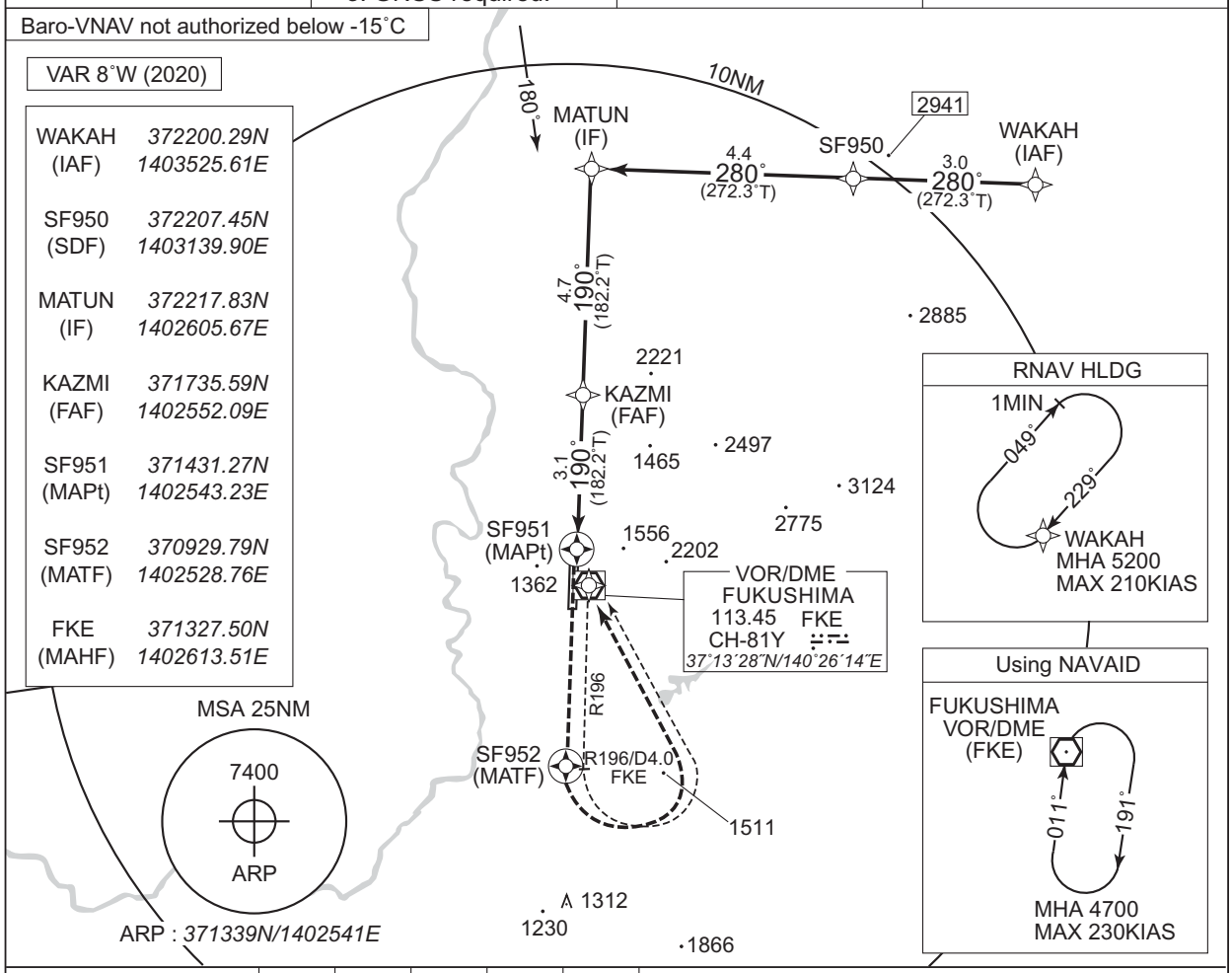
RJSF / FUKUSHIMA — RNAV(GNSS) RWY19

TOKYO CONTROL		FUKUSHIMA RADIO	
128.2 - 134.0 297.5 - 255.4	1. DME/DME RNP0.3 not authorized. 2. RNP0.3 required. 3. GNSS required.	118.05 - 126.2	NO RADAR

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*

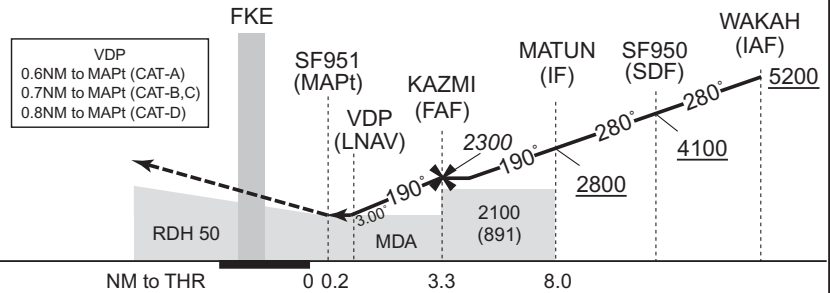


NM to Next Fix	MAPt	1	2	3	FAF
ALT(3.0˚ APCH Path)	–	1641	1959	2278	2300

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.



Missed APCH climb gradient MNM 3.0%

MINIMA THR elev.1209 AD elev.1220

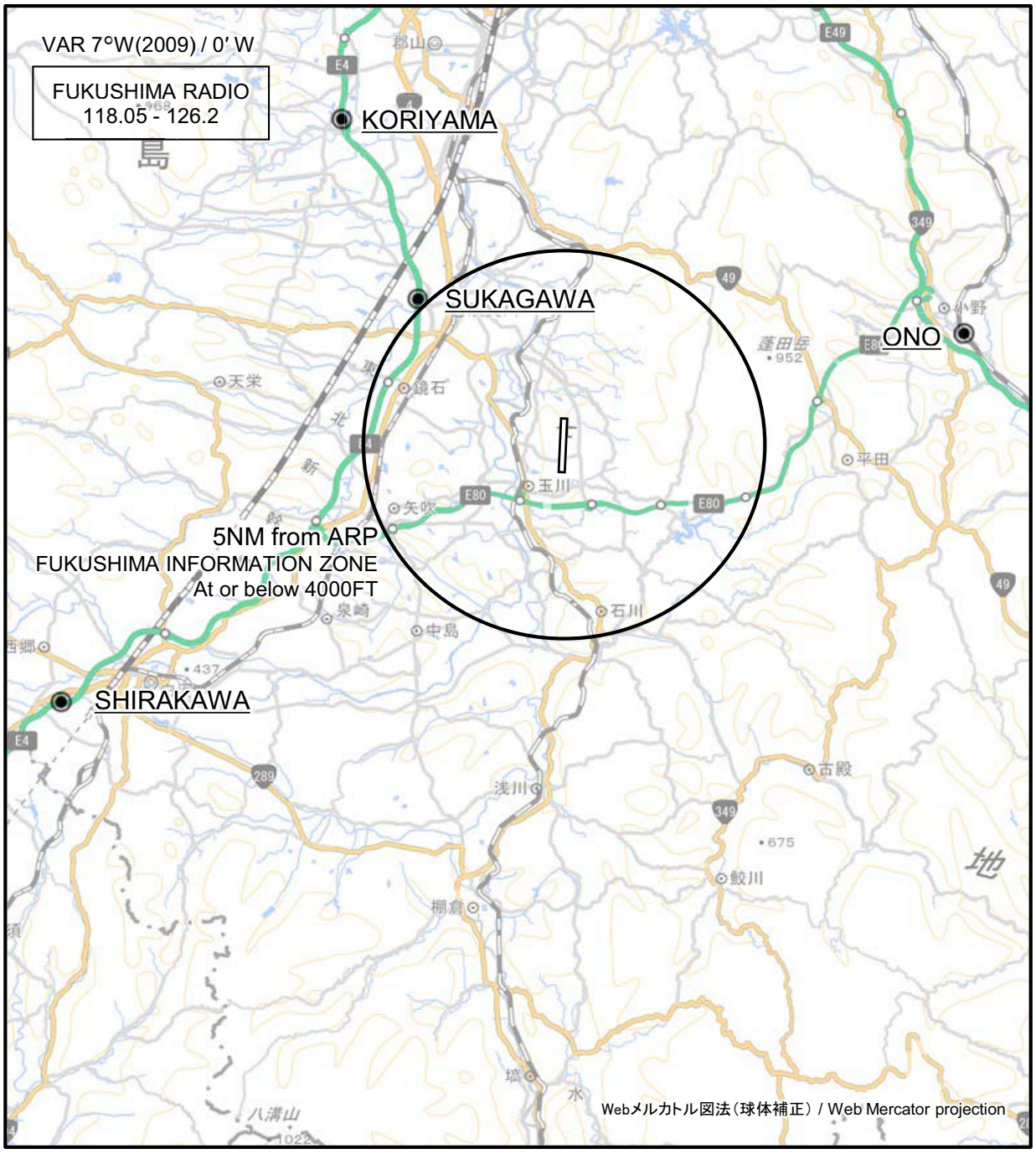
CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	CMV	MDA(H)	CMV	MDA(H)	VIS
A	1520 (311)	1200	1520 (311)	1200	1670 (450)	1600
B	1540 (331)	1300	1540 (331)	1300		
C	1560 (351)	1400	1560 (351)	1400		2400
D	1580 (371)	1600	1580 (371)	1600	1770 (550)	3200

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

CHANGE : HLDG pattern(WAKAH).

RJSF / FUKUSHIMA

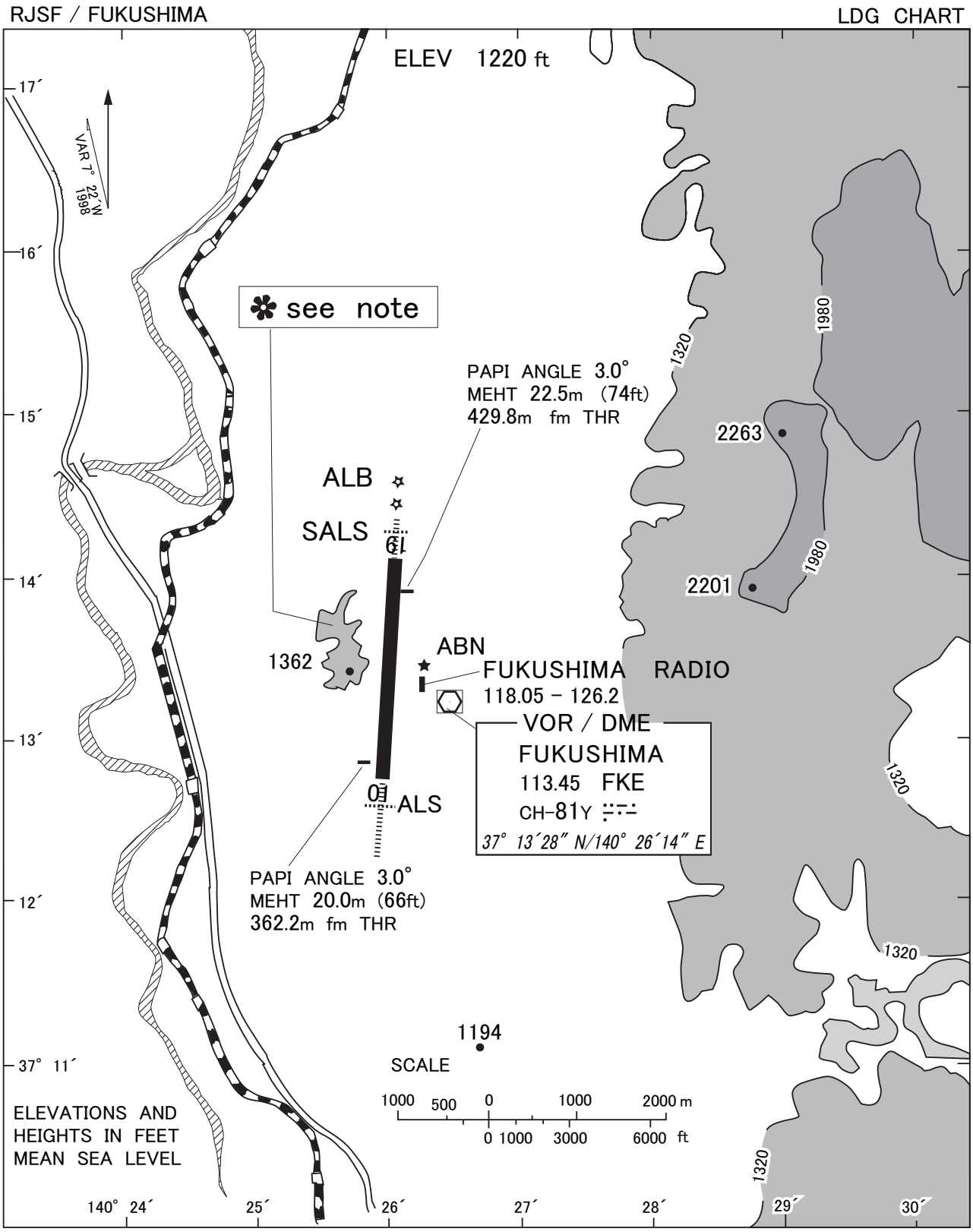
Visual REP



※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).

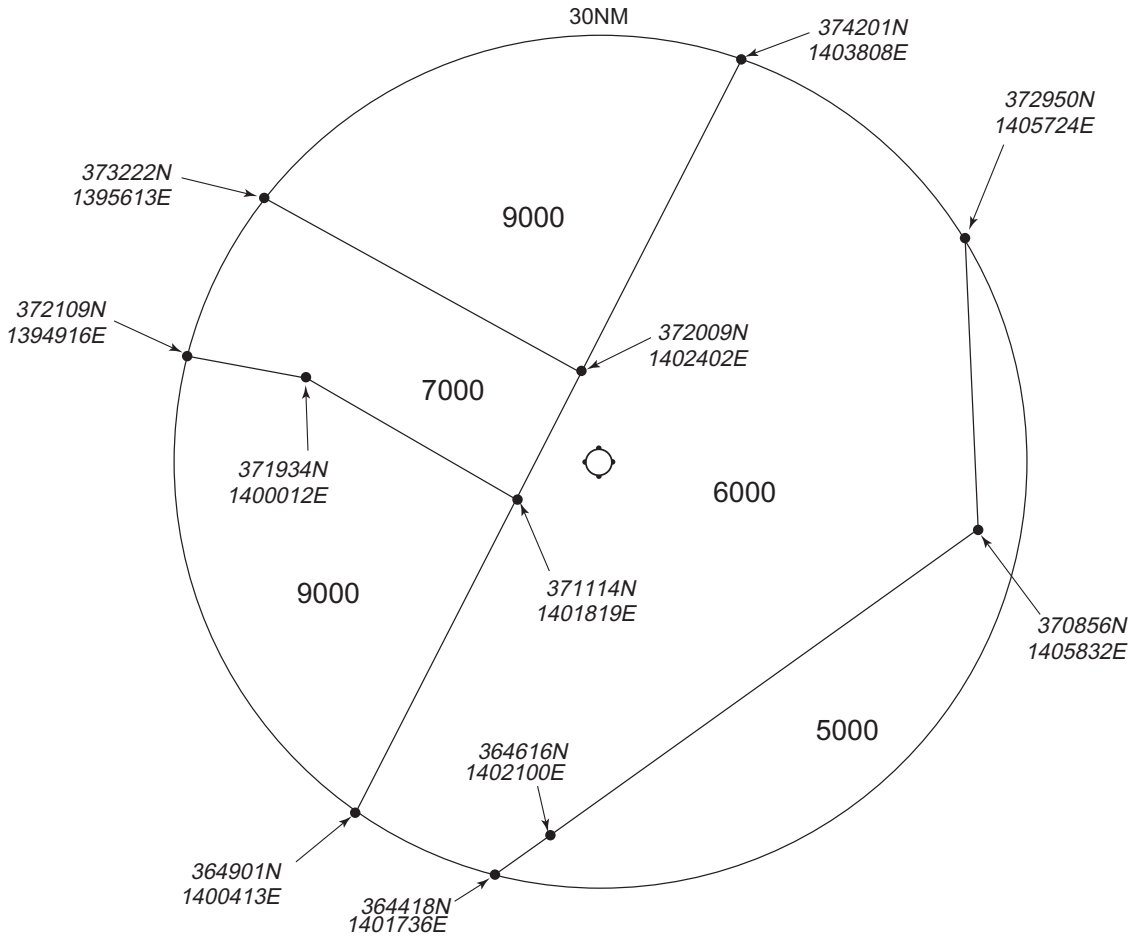
CHANGE : Map updated. BRG/DIST from ARP.

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.