

RJSF / FUKUSHIMA

AD CHART



STANDARD DEPARTURE CHART-INSTRUMENT

RJSF / FUKUSHIMA

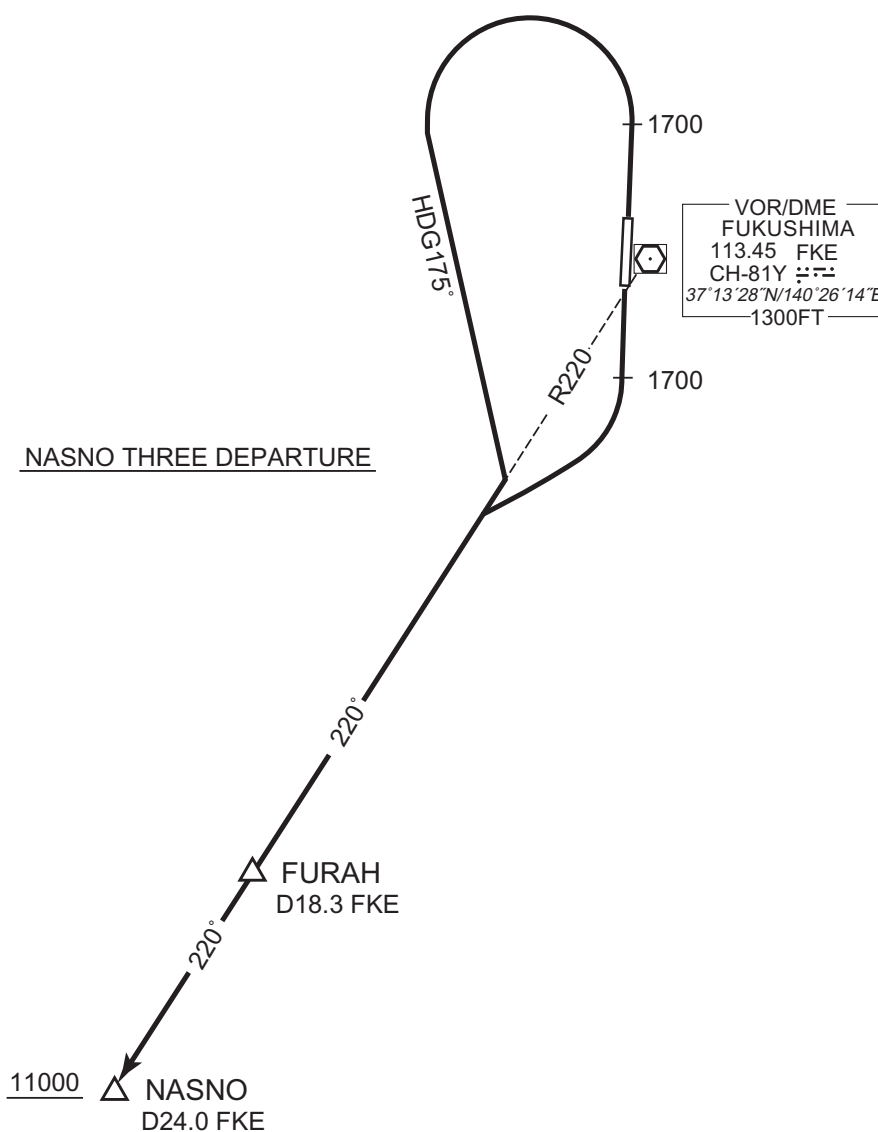
SID

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<br>(002.2) | -7.8               | —             | —              | +1700         | —            | —              | Basic RNP1               |
| 002           | DF              | SF100               | —        | —              | -7.8               | —             | L              | —             | —            | —              | Basic RNP1               |
| 003           | TF              | NASNO               | —        | 208<br>(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<br>(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<br>(002.2) | -7.8               | —             | —              | +1700         | —            | —              | Basic RNP1               |
| 002           | DF              | SF120               | —        | —              | -7.8               | —             | —              | —             | —            | —              | Basic RNP1               |
| 003           | TF              | SF121               | —        | 100<br>(092.2) | -7.8               | 8.5           | —              | —             | —            | —              | Basic RNP1               |
| 004           | TF              | SF122               | —        | 190<br>(182.3) | -7.8               | 12.0          | —              | —             | —            | —              | Basic RNP1               |
| 005           | TF              | SF123               | —        | 280<br>(272.3) | -7.8               | 13.5          | —              | +9000         | —            | —              | Basic RNP1               |
| 006           | TF              | HATRI               | —        | 326<br>(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<br>(182.2) | -7.8               | —             | —              | +1600         | —            | —              | Basic RNP1               |
| 002           | DF              | SF920               | —        | —              | -7.8               | —             | —              | —             | —            | —              | Basic RNP1               |
| 003           | TF              | SF921               | —        | 100<br>(092.2) | -7.8               | 6.2           | —              | —             | —            | —              | Basic RNP1               |
| 004           | TF              | SF922               | —        | 010<br>(002.3) | -7.8               | 5.5           | —              | —             | —            | —              | Basic RNP1               |
| 005           | TF              | SF923               | —        | 305<br>(297.6) | -7.8               | 14.8          | —              | +9000         | —            | —              | Basic RNP1               |
| 006           | TF              | HATRI               | —        | 305<br>(297.4) | -7.8               | 6.9           | —              | —             | —            | —              | Basic RNP1               |



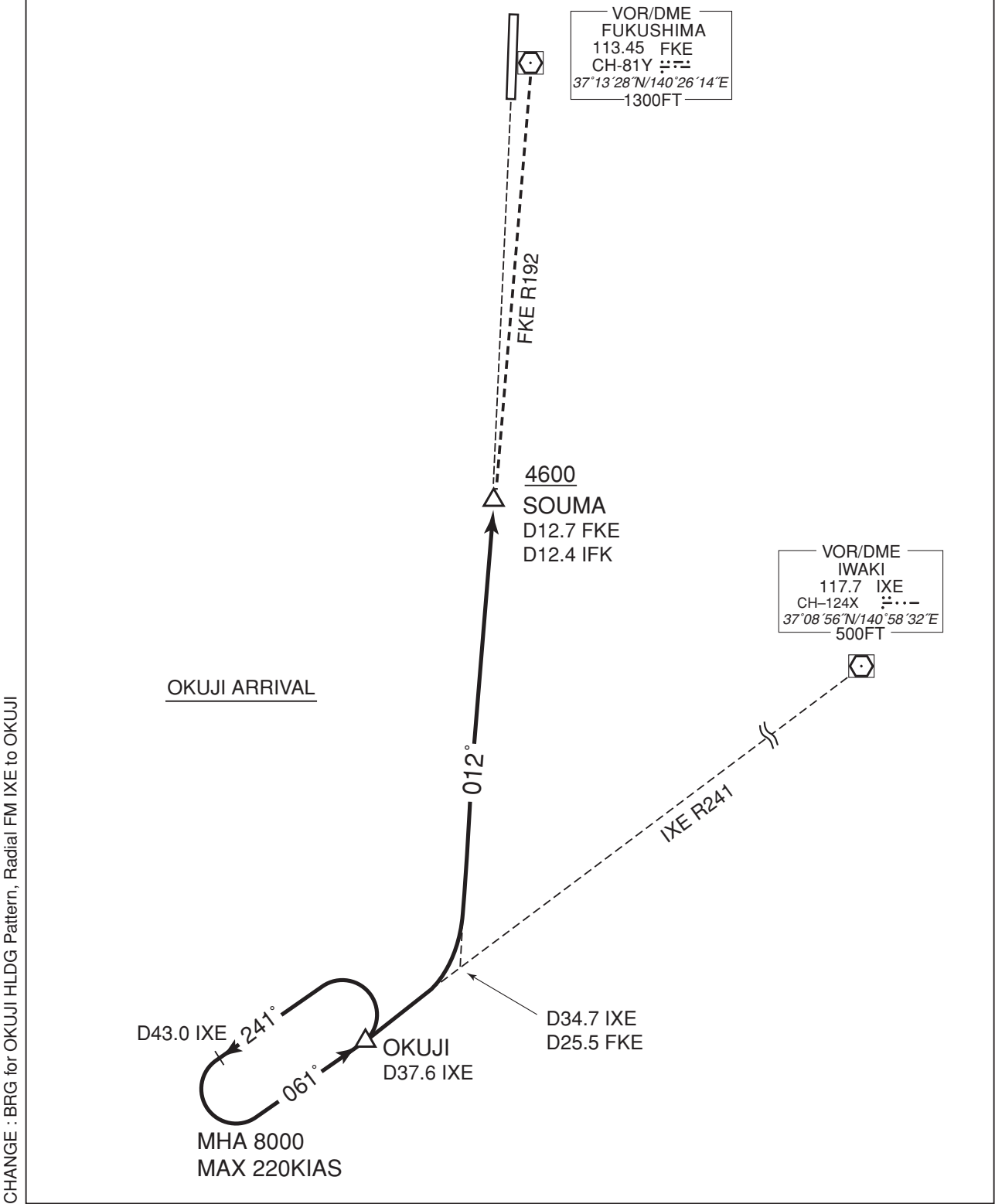
STANDARD ARRIVAL CHART-INSTRUMENT

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<br>(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<br>(182.3) | -7.8               | 31.5          | —              | —             | —            | —              | Basic RNP1               |
| 003           | TF              | SOUMA               | —        | 280<br>(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<br>(024.8) | -7.8               | 26.1          | —              | —             | —            | —              | Basic RNP1               |
| 003           | TF              | WAKAH               | —        | 010<br>(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<br>(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 A

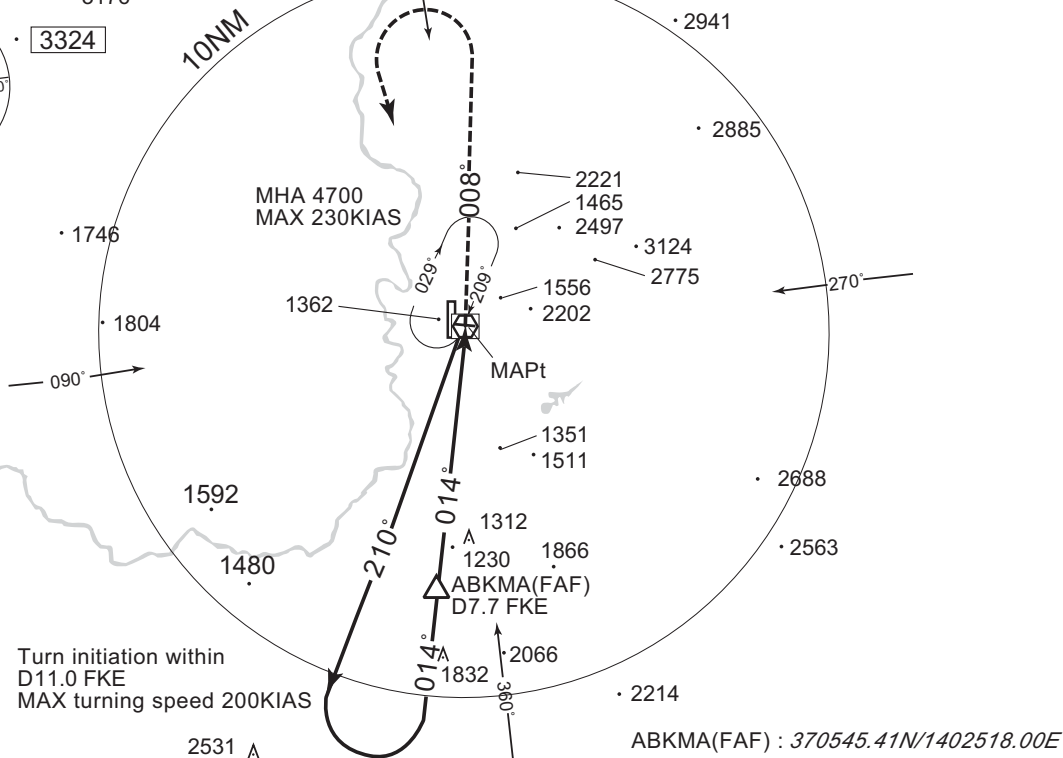
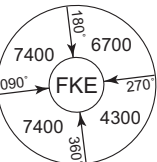
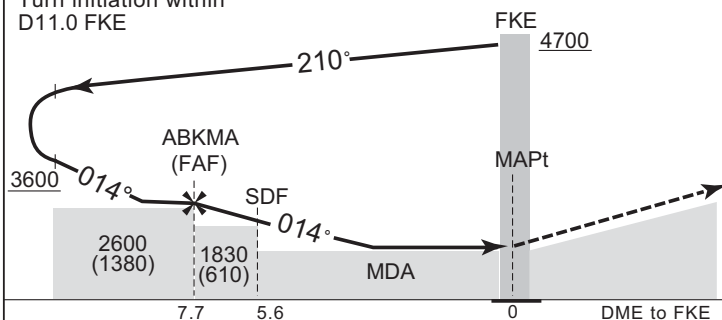
TOKYO CONTROL  
128.2 - 134.0  
297.5 - 255.4FUKUSHIMA VOR/DME  
113.45 FKE  
CH-81Y  
37°13'28"N/140°26'14"EFUKUSHIMA RADIO  
118.05 - 126.2

NO RADAR

VAR 8°W (2020)

EQPT REQUIRED  
DME

MSA 25NM

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   |            | 2400 |
| C   |            | 3200 |
| D   | 1770 (550) | 3200 |

Circling to WEST side of RWY only.

## INSTRUMENT APPROACH CHART

RJSF / FUKUSHIMA

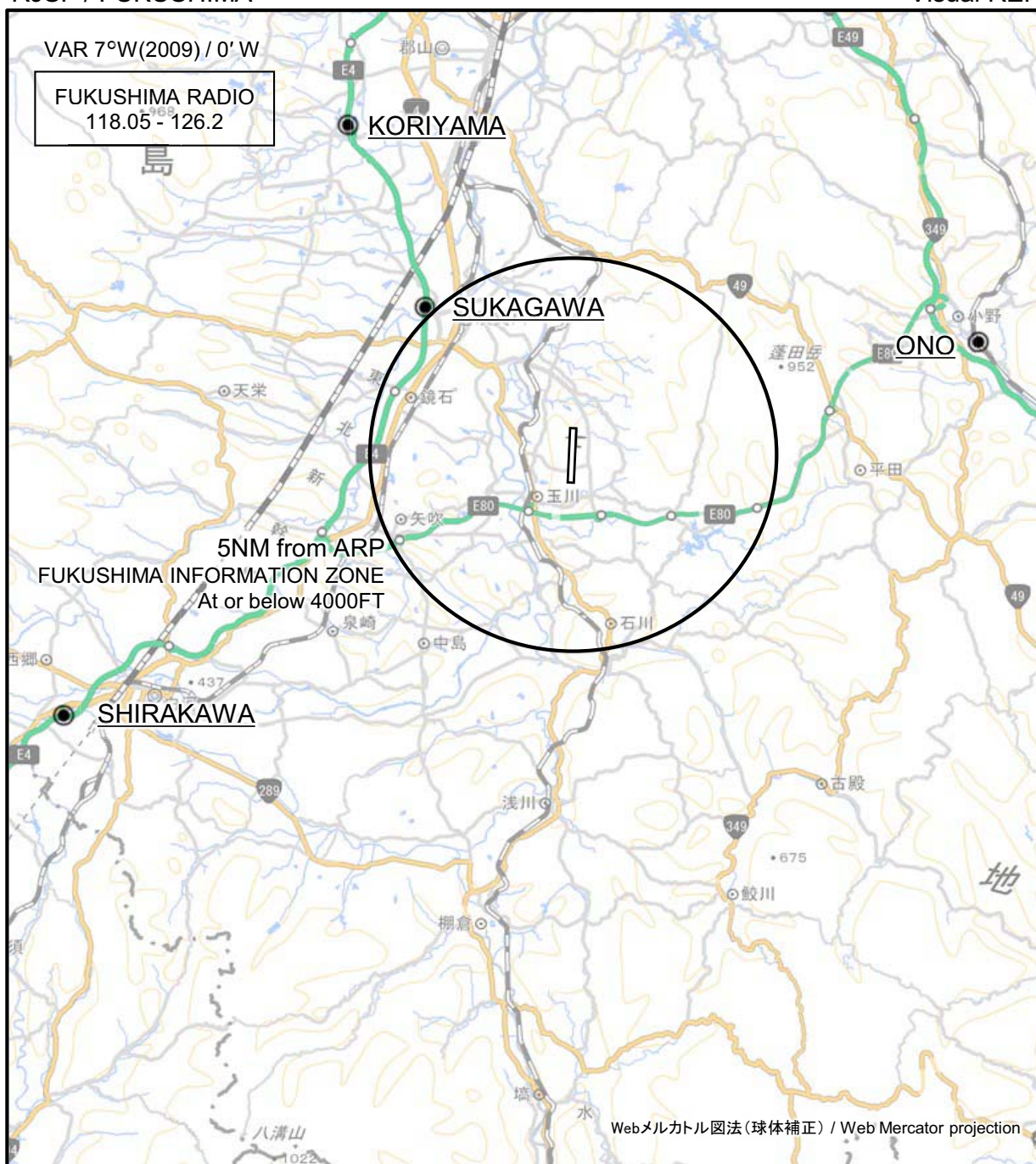
RNAV(GNSS) RWY19



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<br>Koriyama  | 326°T / 10.1NM      | 郡山南IC<br>Interchange |
| 須賀川<br>Sukagawa | 316°T / 5.3NM       | 須賀川IC<br>Interchange |
| 小野<br>Ono       | 074°T / 10.4NM      | JR小野新町駅<br>Station   |
| 白河<br>Shirakawa | 242°T / 14.3NM      | 白河IC<br>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.

