

## AD CHART

[illegible]

STANDARD DEPARTURE CHART - INSTRUMENT

RJFR / KITAKYUSHU

SID

ASARI THREE DEPARTURE

RWY 18 : Climb RWY HDG to 500FT, turn left HDG039° ,...

RWY 36 : Climb RWY HDG to 500FT, turn right HDG129° , ...

...to intercept and proceed via SWE R084 to ASARI.

Cross SWE 8.0DME at or above 3000FT.

Note RWY18 : 5.8% climb gradient required up to 500FT due to airspace restrictions only.

RWY36 : 4.0% climb gradient required up to 500FT due to airspace restrictions only.

CHANGE : Description of PROC name.



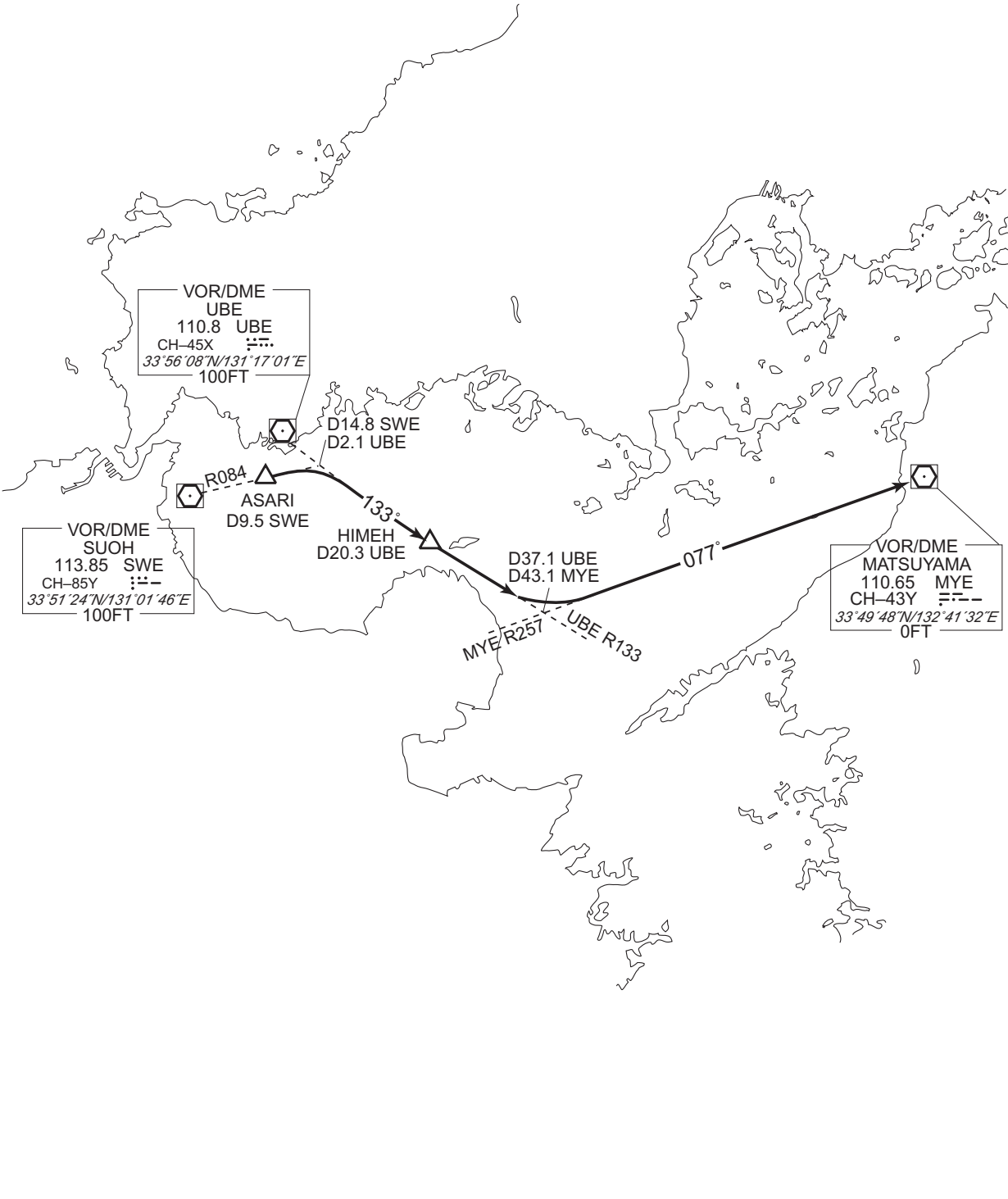
STANDARD DEPARTURE CHART - INSTRUMENT

RJFR / KITAKYUSHU

TRANSITION

MATSUYAMA TRANSITION

From over ASARI, via SWE R084 to intercept and proceed via UBE R133 to HIMEH, via UBE R133 to intercept and proceed via MYE R257 to MYE VOR/DME.



CHANGE : Description of PROC name.

STANDARD DEPARTURE CHART - INSTRUMENT

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TRANSITION

MUSASHI TRANSITION

From over ASARI, via SWE R084 to intercept and proceed via UBE R133 to HIMEH, via TFE R346 to TFE VOR/DME.



CHANGE : Description of PROC name.

## STANDARD DEPARTURE CHART - INSTRUMENT

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SID

ONGHA TWO DEPARTURE

RWY 18 : Climb RWY HDG to 500FT, turn left,...

RWY 36 : Climb RWY HDG to 500FT, turn right,...

...direct to SWE VOR/DME, proceed via SWE R259 to ONGHA.

Cross SWE VOR/DME at or above 3000FT.

Note RWY18 : 5.8% climb gradient required up to 500FT due to airspace restrictions only.

RWY36 : 4.0% climb gradient required up to 500FT due to airspace restrictions only.



CHANGE : Description of PROC name.

STANDARD DEPARTURE CHART-INSTRUMENT

RJFR / KITAKYUSHU

RNAV SID and TRANSITION

| KOHEI ONE DEPARTURE<br>DOUGO TRANSITION   |                       | RNAV1  |
|---|-----------------------|--|
| <p>Note 1 ) DME/DME/IRU or GNSS required.</p> <p>※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off roll.</p> <p>2 ) RADAR service required.</p>  | Critical DME          | <p>RWY18 :<br/>SWE : 2.0NM from DER - 12.0NM to KOHEI<br/>UBE : 16.0NM to KOHEI - KOHEI</p> <p>RWY36 :<br/>UBE : 12.0NM to KOHEI - KOHEI</p> |
|   | DME GAP               | <p>RWY18 : DER - 2.0NM from DER<br/>RWY36 : DER - 12.0NM to KOHEI</p>  |
|   | Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1  |
|   |                       |  |
| <p><b>KOHEI ONE DEPARTURE</b></p> <p>RWY18 : Climb on HDG178° at or above 500FT, turn left direct to KOHEI.</p> <p>RWY36 : Climb on HDG358° at or above 500FT, turn right direct to KOHEI.</p> <p>Note RWY18: 5.8% climb gradient required up to 500FT due to airspace restrictions only.</p> <p>RWY36: 4.0% climb gradient required up to 500FT due to airspace restrictions only.</p> |                       |  |
| <p><b>DOUGO TRANSITION</b></p> <p>From KOHEI, to HIMEH, to GONBE, to MYE.</p>   |                       |  |

CHANGE : Description of VAR. FIX symbol(HIMEH).

## STANDARD DEPARTURE CHART-INSTRUMENT

## RJFR / KITAKYUSHU

## RNAV SID and TRANSITION

KOHEI ONE DEPARTURE

## RWY18

| 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              | —                   | —        | 178<br>(170.4) | -7.5               | —             | —              | +500          | —            | —              | RNAV1                    |
| 002           | DF              | KOHEI               | —        | —              | -7.5               | —             | L              | —             | —            | —              | RNAV1                    |

## RWY36

| 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              | —                   | —        | 358<br>(350.4) | -7.5               | —             | —              | +500          | —            | —              | RNAV1                    |
| 002           | DF              | KOHEI               | —        | —              | -7.5               | —             | R              | —             | —            | —              | RNAV1                    |

DOUGO TRANSITION

| 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              | KOHEI               | —        | —              | -7.5               | —             | —              | —             | —            | —              | RNAV1                    |
| 002           | TF              | HIMEH               | —        | 133<br>(125.8) | -7.5               | 11.5          | —              | —             | —            | —              | RNAV1                    |
| 003           | TF              | GONBE               | —        | 110<br>(102.2) | -7.5               | 29.8          | —              | —             | —            | —              | RNAV1                    |
| 004           | TF              | MYE                 | —        | 072<br>(064.1) | -7.5               | 27.5          | —              | —             | —            | —              | RNAV1                    |

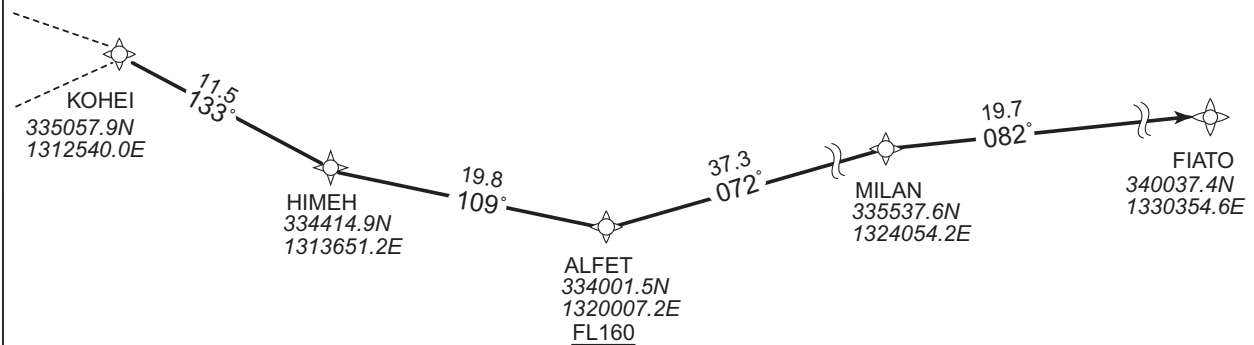
STANDARD DEPARTURE CHART-INSTRUMENT

RJFR / KITAKYUSHU

RNAV TRANSITION

| FIATO TRANSITION  |                       |   | RNAV1 |
|---|-----------------------|---|-------|
| Note 1 ) DME/DME/IRU or GNSS required.<br>2 ) RADAR service required. | Critical DME          | -   |       |
|   | DME GAP               | -   |       |
|   | Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |       |

VAR 8°W



From KOHEI, to HIMEH, to ALFET at or above FL160, to MILAN, to FIATO.

CHANGE : Description of VAR and PROC name. FIX symbol(HIMEH).

| 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              | KOHEI               | -        | -             | -7.5               | -             | -              | -             | -            | -              | RNAV1                    |
| 002           | TF              | HIMEH               | -        | 133 (125.8)   | -7.5               | 11.5          | -              | -             | -            | -              | RNAV1                    |
| 003           | TF              | ALFET               | -        | 109 (102.2)   | -7.5               | 19.8          | -              | +FL160        | -            | -              | RNAV1                    |
| 004           | TF              | MILAN               | -        | 072 (065.1)   | -7.5               | 37.3          | -              | -             | -            | -              | RNAV1                    |
| 005           | TF              | FIATO               | -        | 082 (075.2)   | -7.5               | 19.7          | -              | -             | -            | -              | RNAV1                    |



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INSTRUMENT APPROACH CHART

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ILS Z or LOC Z RWY 18

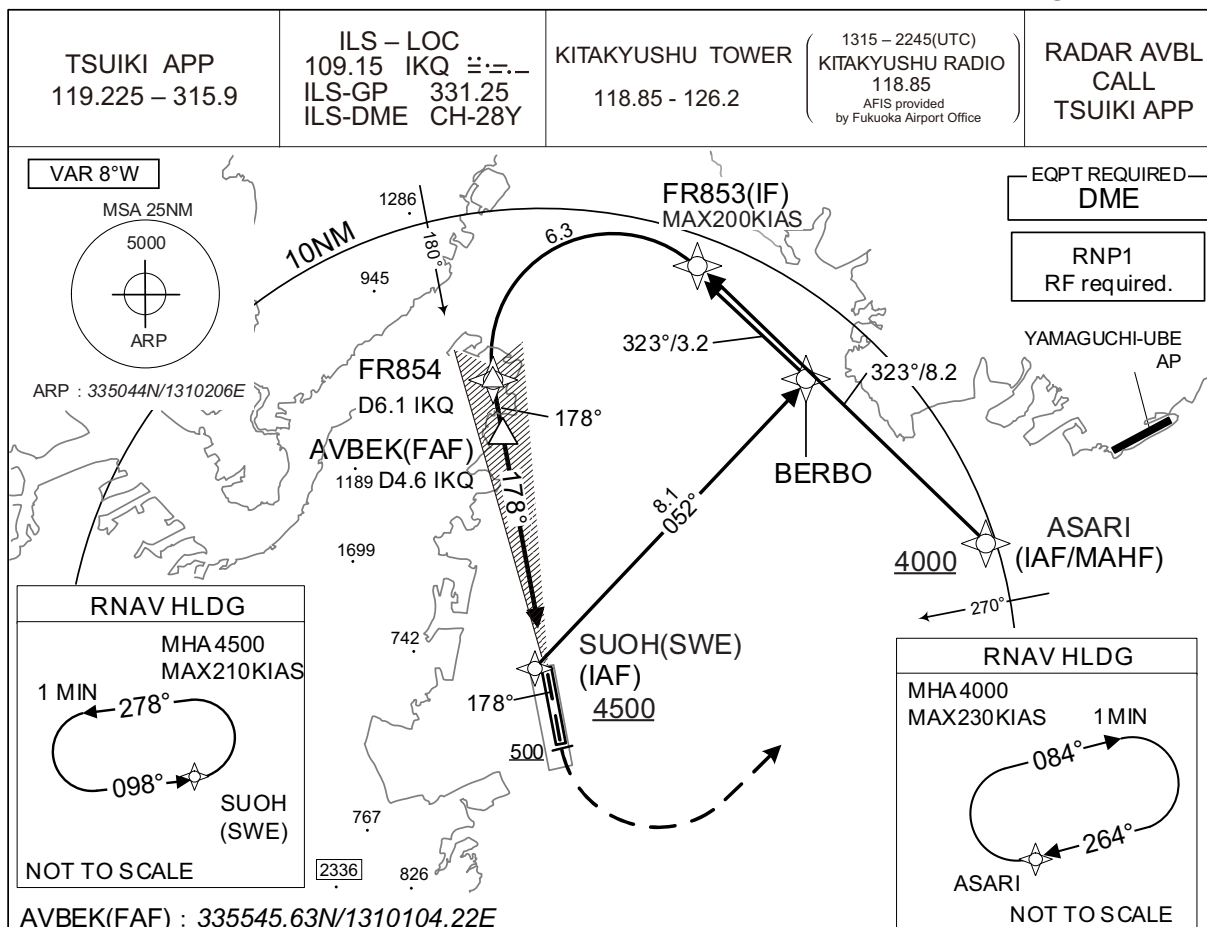


CHANGE : MAPt established.

## INSTRUMENT APPROACH CHART

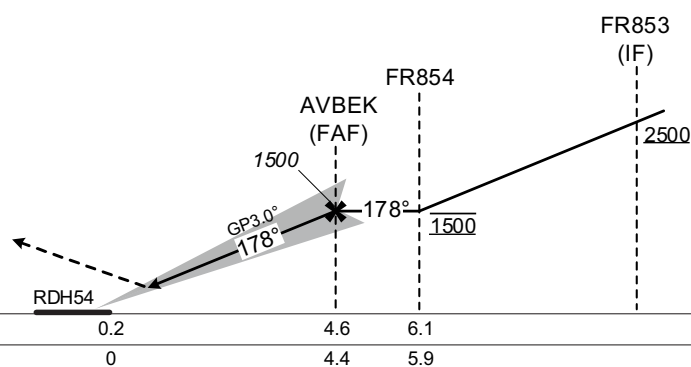
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ILS Y RWY18



## MISSED APPROACH

Climb on course 178°, at or above 500FT turn left, direct to ASARI and hold at 4000FT.  
Contact TSUIKI APP.



Missed APCH climb gradient MNM 5.0%

| MINIMA |          | THR elev. 22 | AD elev. 21 |      |
|--------|----------|--------------|-------------|------|
| CAT    | CAT I    |              | CIRCLING    |      |
|        | DA(H)    | RVR/<br>CMV  | MDA(H)      | VIS  |
| A      | 222(200) | 550          | 500(479)    | 1600 |
| B      |          |              |             | 2400 |
| C      |          |              | 580(559)    |      |
| D      |          |              | 3200        |      |

Circling to EAST side of RWY only.

MINIMA with Missed APCH climb gradient of 2.5% are not established.

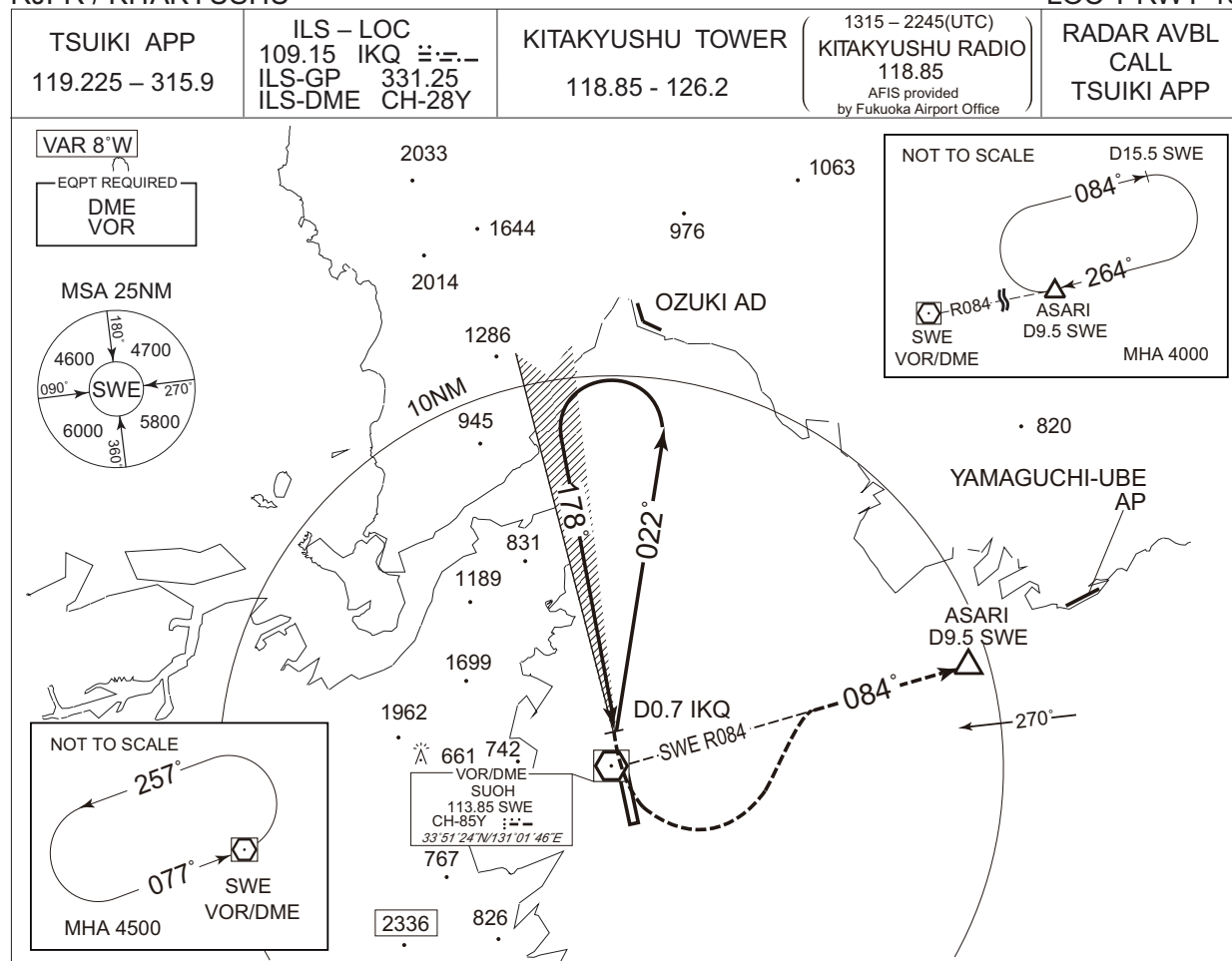
CHANGE : Navigation Specification(Basic RNP1 → RNP1).



## INSTRUMENT APPROACH CHART

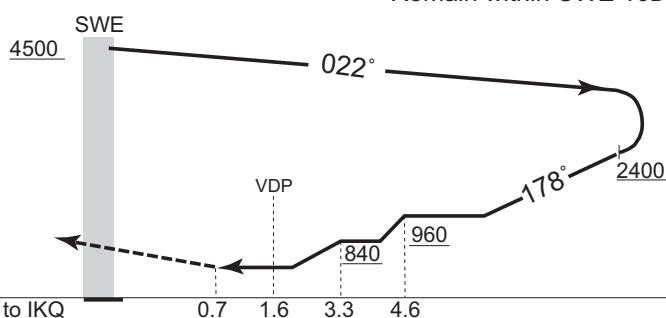
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LOC Y RWY 18

**MISSED APPROACH**

At IKQ 0.7DME, turn left and climb to 4000FT via SWE R084 to ASARI and hold.  
Contact TSUIKI APP.

Remain within SWE 10DME

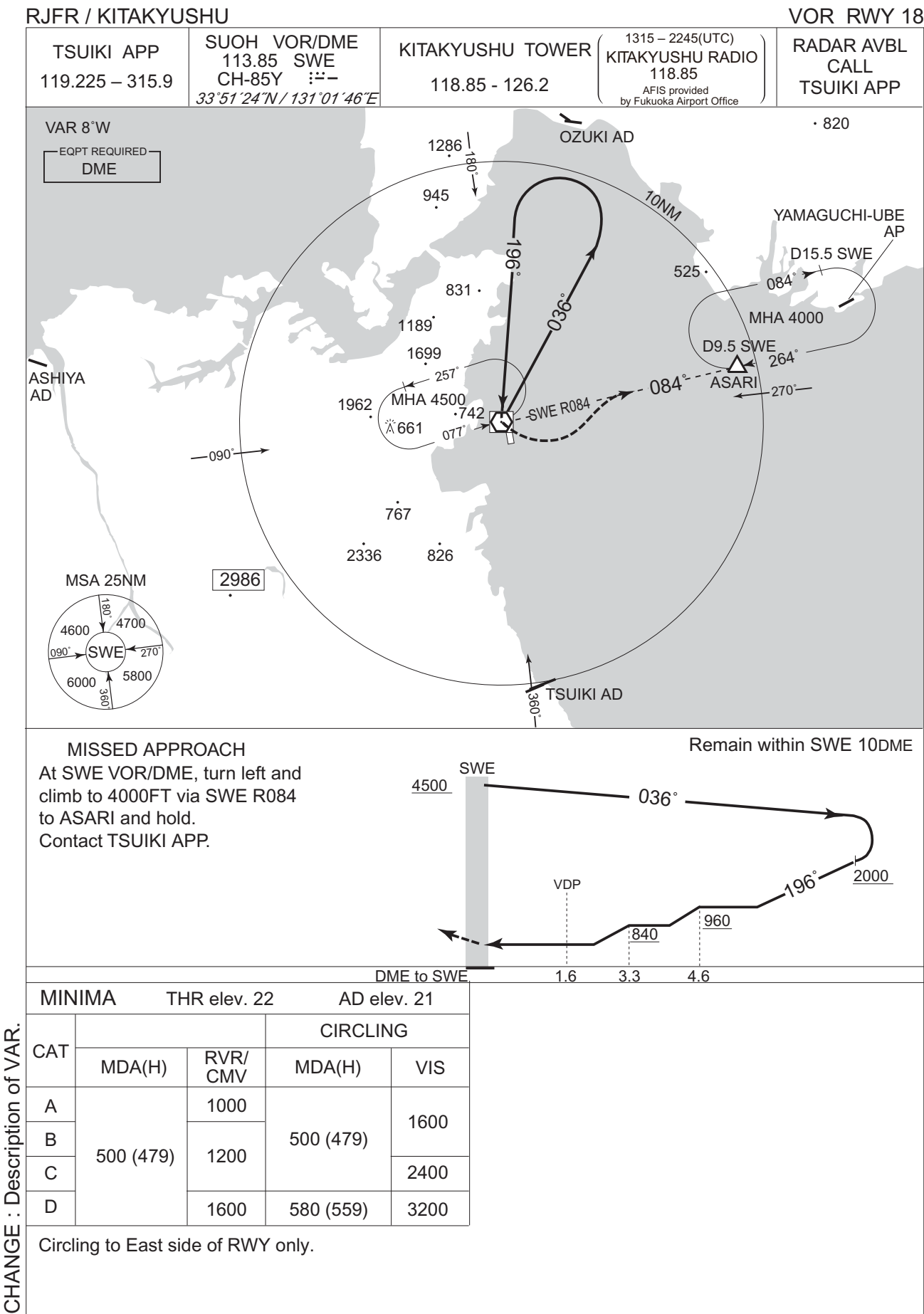


| MINIMA |           | THR elev. 22 | AD elev. 21 |      |
|--------|-----------|--------------|-------------|------|
| CAT    |           |              | CIRCLING    |      |
|        | MDA(H)    | RVR/<br>CMV  | MDA(H)      | VIS  |
| A      | 500 (479) | 1000         | 500 (479)   | 1600 |
| B      |           | 1200         |             |      |
| C      |           |              |             | 2400 |
| D      |           | 1600         | 580 (559)   | 3200 |

Circling to East side of RWY only.

CHANGE : Description of HLDG.

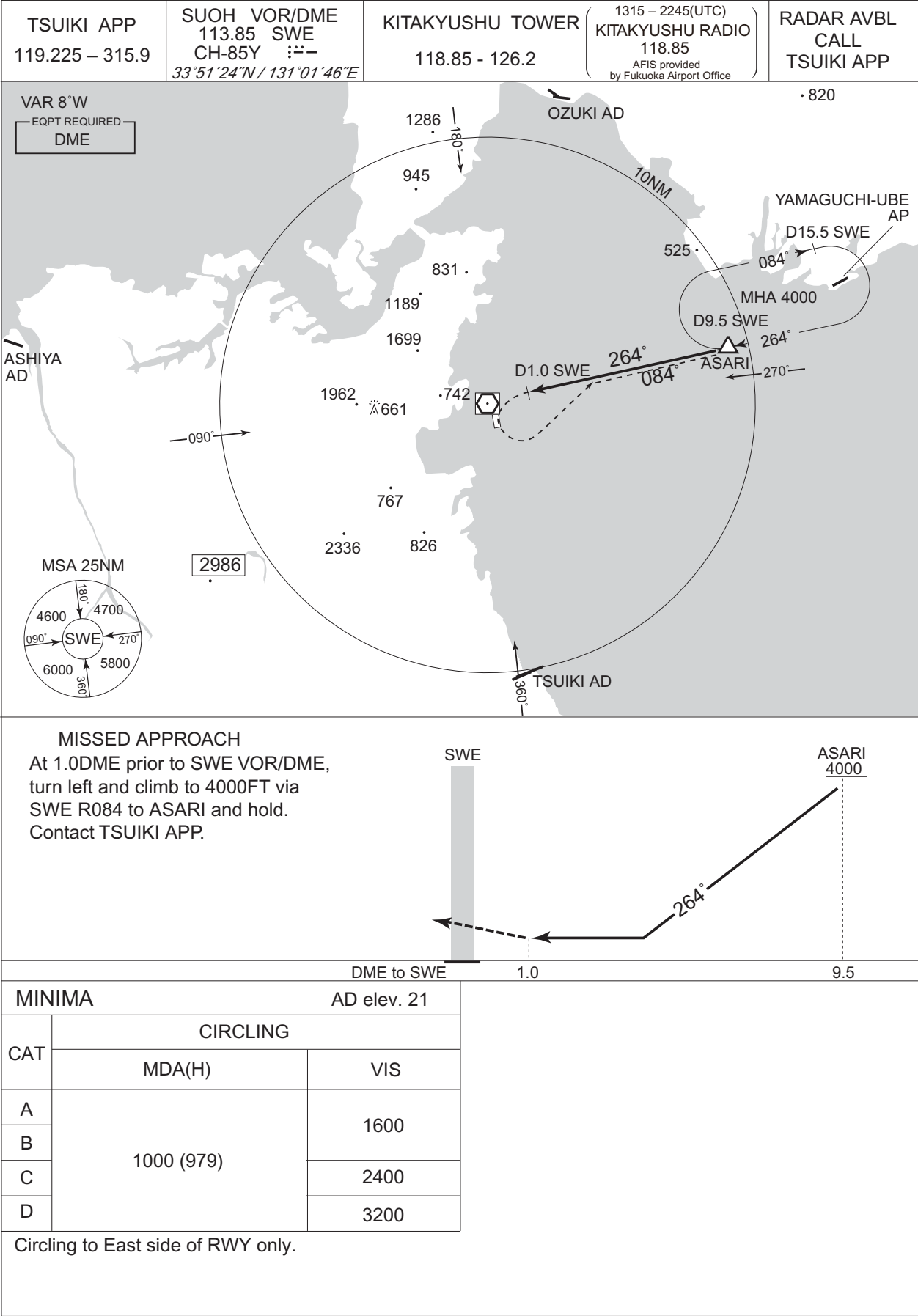
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

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VOR A



CHANGE : Description of VAR.

INSTRUMENT APPROACH CHART

RJFR / KITAKYUSHU

VOR B





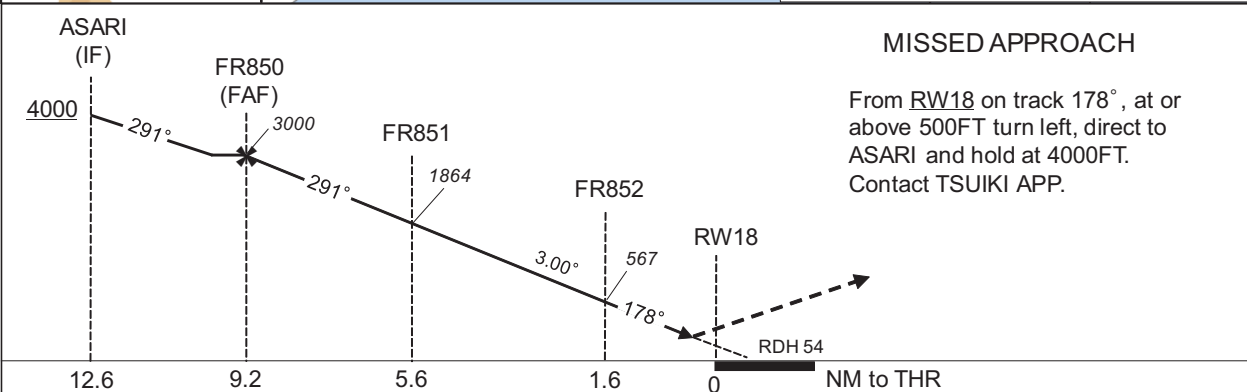
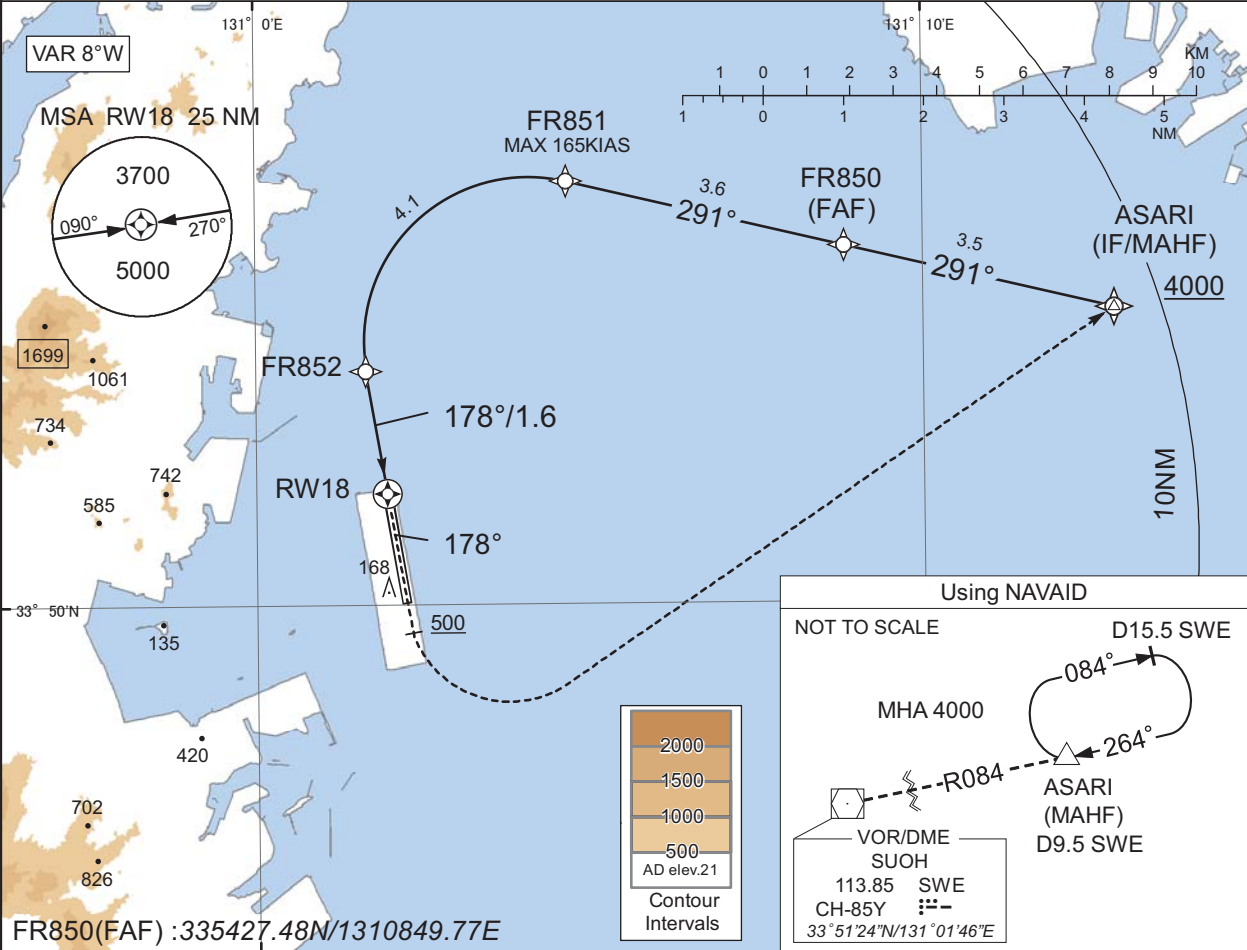
INSTRUMENT APPROACH CHART

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RNP RWY18(AR)

|                               |                        |                                    |  |                                  |
|-------------------------------|------------------------|------------------------------------|--|----------------------------------|
| TSUIKI APP<br>119.225 - 315.9 | RNP AR<br>RF required. | KITAKYUSHU TOWER<br>118.85 - 126.2 | 1315 - 2245(UTC)<br>KITAKYUSHU RADIO<br>118.85<br>AFIS provided<br>by Fukuoka Airport Office | RADAR AVBL<br>CALL<br>TSUIKI APP |
|-------------------------------|------------------------|------------------------------------|--|----------------------------------|

For uncompensated Baro-VNAV systems, procedure not authorized below -5°C / above 45°C



|                                     |              |             |
|-------------------------------------|--------------|-------------|
| Missed APCH climb gradient MNM 5.0% |              |             |
| MINIMA                              | THR elev. 22 | AD elev. 21 |
| CAT                                 | RNP 0.30     |             |
|                                     | DA(H)        | RVR/CMV     |
| A                                   | -            | -           |
| B                                   | -            | -           |
| C                                   | 322(300)     | 1000        |
| D                                   |              | 1400        |

MINIMA with Missed APCH climb gradient of 2.5% are not established.

Authorization Required

## INSTRUMENT APPROACH CHART

RJFR / KITAKYUSHU

RNP RWY18(AR)

Coding Table

| Serial Number | Path Descriptor           | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | VPA/ RDH (°/FT) | RNP Value |
|---------------|---------------------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|-----------------|-----------|
| 001           | IF                        | ASARI               | -        | -             | -7.9               | -             | -              | +4000         | -            | -               | -         |
| 002           | TF                        | FR850               | -        | 291 (283.6)   | -7.9               | 3.5           | -              | 3000          | -            | -               | 1.0       |
| 003           | TF                        | FR851               | -        | 291 (283.5)   | -7.9               | 3.6           | -              | 1864          | -165         | -3.00           | 0.3       |
| 004           | RF Center: FRRF1 r=2.06NM | FR852               | -        | -             | -7.9               | 4.1           | L              | 567           | -            | -3.00           | 0.3       |
| 005           | TF                        | RW18                | Y        | 178 (170.4)   | -7.9               | 1.6           | -              | 76            | -            | -3.00/54        | 0.3       |
| 006           | FA                        | -                   | -        | 178 (170.4)   | -7.9               | -             | -              | +500          | -            | -               | 1.0       |
| 007           | DF                        | ASARI               | -        | -             | -7.9               | -             | L              | 4000          | -            | -               | 1.0       |

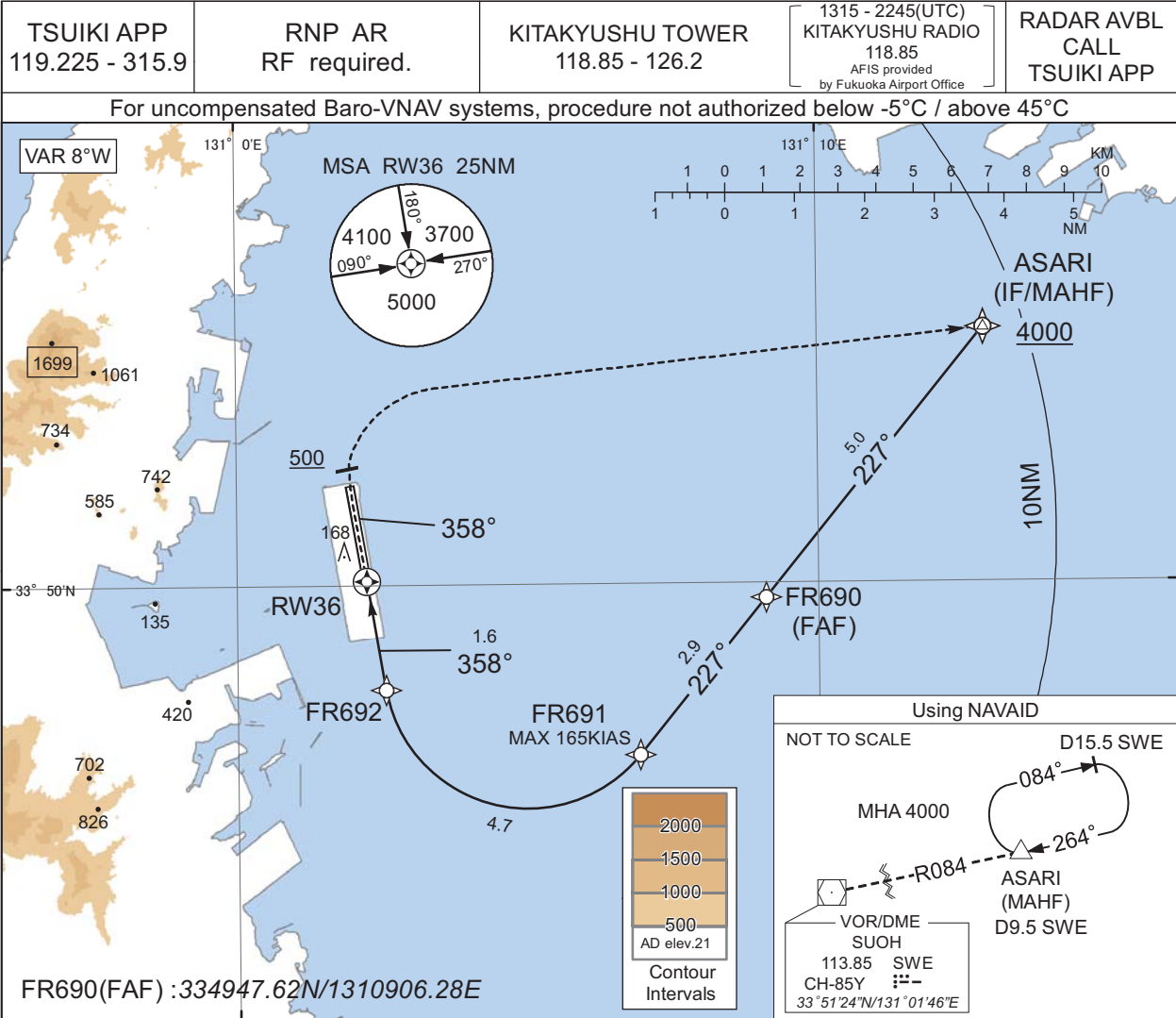
Waypoint Coordinates

| Waypoint Identifier | Coordinates              | RF Arc Center Identifier | Coordinates              |
|---------------------|--------------------------|--------------------------|--------------------------|
| ASARI               | 335338.98N / 1311252.32E | FRRF1                    | 335316.61N / 1310405.62E |
| FR850               | 335427.48N / 1310849.77E |                          |                          |
| FR851               | 335517.24N / 1310440.15E |                          |                          |
| FR852               | 335255.76N / 1310139.03E |                          |                          |
| RW18                | 335123.92N / 1310157.83E |                          |                          |

INSTRUMENT APPROACH CHART

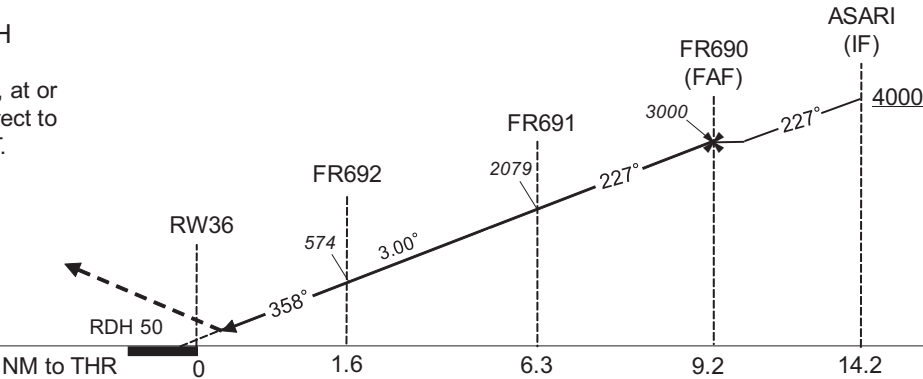
RJFR / KITAKYUSHU

RNP RWY36(AR)



MISSED APPROACH

From RW36 on track 358°, at or above 500FT turn right, direct to ASARI and hold at 4000FT.  
Contact TSUIKI APP.



Missed APCH climb gradient MNM 5.0%

| MINIMA                   |          |      |
|--------------------------|----------|------|
| THR elev. 23 AD elev. 21 |          |      |
| CAT                      | RNP 0.30 |      |
|                          | DA(H)    | CMV  |
| A                        | -        | -    |
| B                        | -        | -    |
| C                        | 329(306) | 1400 |
| D                        |          | 1600 |

MINIMA with Missed APCH climb gradient of 2.5% are not established.

Authorization Required

CHANGE : Description of VAR.

## INSTRUMENT APPROACH CHART

RJFR / KITAKYUSHU

RNP RWY36(AR)

Coding Table

| Serial Number | Path Descriptor                    | Waypoint Identifier | Fly Over | Course °M(°T)  | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | VPA/ RDH (°/FT) | RNP Value |
|---------------|------------------------------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|-----------------|-----------|
| 001           | IF                                 | ASARI               | -        | -              | -7.9               | -             | -              | +4000         | -            | -               | -         |
| 002           | TF                                 | FR690               | -        | 227<br>(219.1) | -7.9               | 5.0           | -              | 3000          | -            | -               | 1.0       |
| 003           | TF                                 | FR691               | -        | 227<br>(219.0) | -7.9               | 2.9           | -              | 2079          | -165         | -3.00           | 0.3       |
| 004           | RF<br>Center:<br>FRRF2<br>r=2.06NM | FR692               | -        | -              | -7.9               | 4.7           | R              | 574           | -            | -3.00           | 0.3       |
| 005           | TF                                 | RW36                | Y        | 358<br>(350.4) | -7.9               | 1.6           | -              | 73            | -            | -3.00/50        | 0.3       |
| 006           | FA                                 | -                   | -        | 358<br>(350.4) | -7.9               | -             | -              | +500          | -            | -               | 1.0       |
| 007           | DF                                 | ASARI               | -        | -              | -7.9               | -             | R              | 4000          | -            | -               | 1.0       |

Waypoint Coordinates

| Waypoint Identifier | Coordinates              | RF Arc Center Identifier | Coordinates              |
|---------------------|--------------------------|--------------------------|--------------------------|
| ASARI               | 335338.98N / 1311252.32E | FRRF2                    | 334851.32N / 1310459.78E |
| FR690               | 334947.62N / 1310906.28E |                          |                          |
| FR691               | 334733.05N / 1310655.02E |                          |                          |
| FR692               | 334830.46N / 1310233.32E |                          |                          |
| RW36                | 335004.08N / 1310214.17E |                          |                          |

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Visual REP



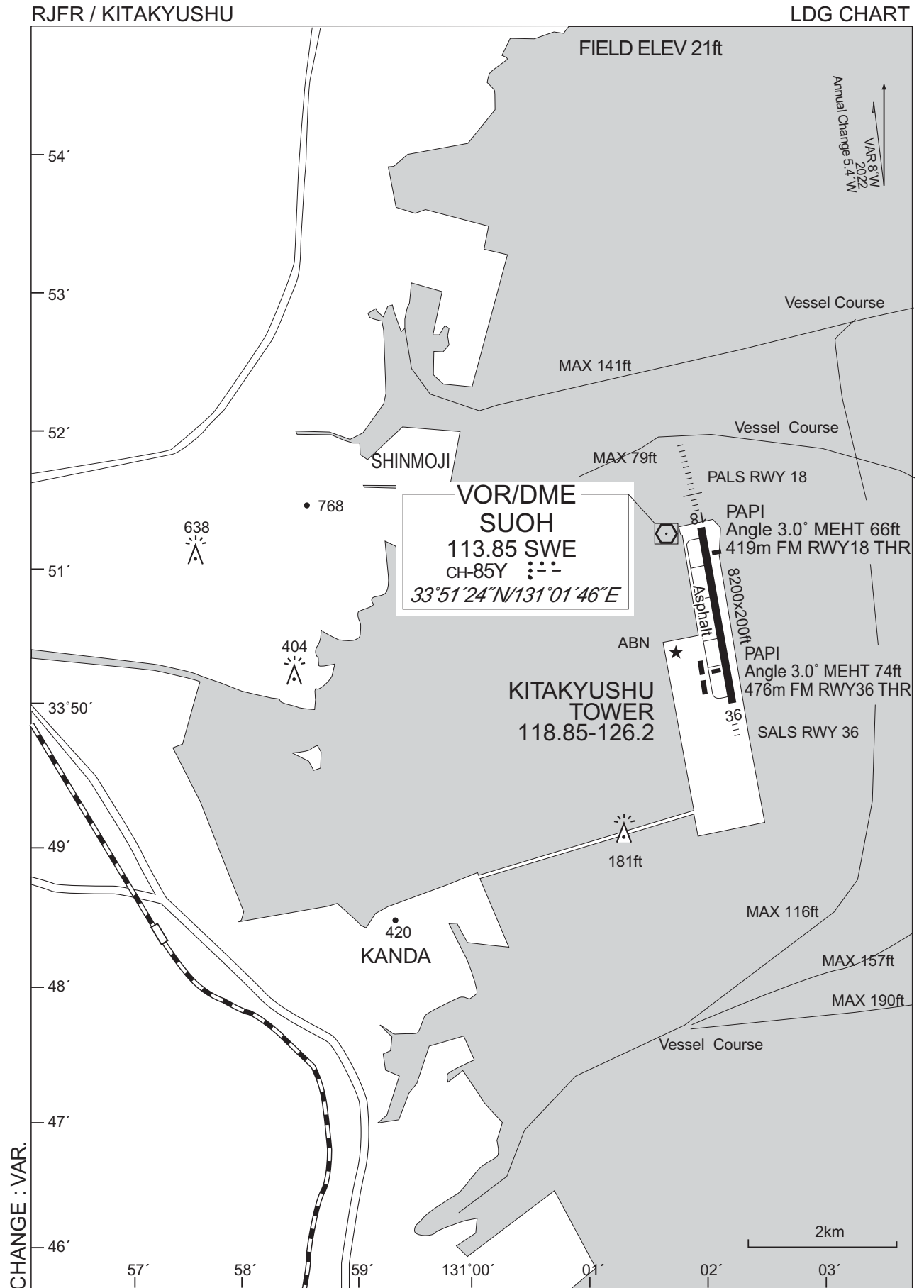
※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

RJFR / KITAKYUSHU

Visual REP

| Call sign                  | BRG / DIST from ARP | Remarks                                     |
|----------------------------|---------------------|---|
| 部崎<br>Hesaki               | 355°T / 6.8NM       | 灯台<br>Lighthouse                            |
| 6NM NE                     | 045°T / 6.0NM       | 海上<br>Over the sea                          |
| 6NM E                      | 090°T / 6.0NM       | 海上<br>Over the sea                          |
| 6NM SE                     | 135°T / 6.0NM       | 海上<br>Over the sea                          |
| 苅田<br>Kanda                | 202°T / 5.5NM       | 日産自動車九州工場<br>Automobile manufacturing plant |
| 石原町<br>Ishiharamachi       | 247°T / 9.2NM       | JR石原町駅<br>Station                           |
| 間島<br>Majima               | 252°T / 3.1NM       | 島<br>Island                                 |
| 東インター<br>Higashi Inter     | 263°T / 6.2NM       | 小倉東I.C.(九州自動車道)<br>Interchange              |
| 小倉ステーション<br>Kokura Station | 288°T / 8.0NM       | JR小倉駅<br>Station                            |

CHANGE : BRG/DIST from ARP. Remarks(Kanda).





## Minimum Vectoring Altitude CHART

