

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

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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.

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RNAV SID and TRANSITION

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

STANDARD DEPARTURE CHART-INSTRUMENT

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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 (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 (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 (125.8) | -7.5 | 11.5 | — | — | — | — | RNAV1 |
| 003 | TF | GONBE | — | 110 (102.2) | -7.5 | 29.8 | — | — | — | — | RNAV1 |
| 004 | TF | MYE | — | 072 (064.1) | -7.5 | 27.5 | — | — | — | — | RNAV1 |

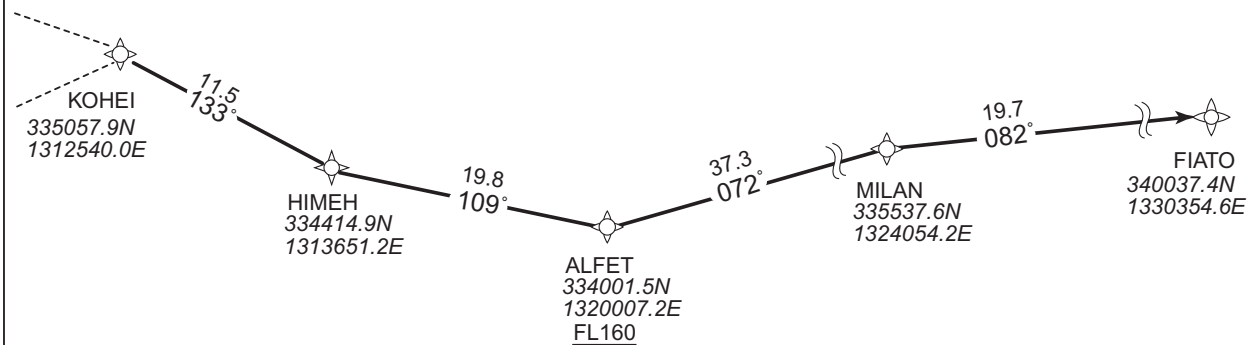
STANDARD DEPARTURE CHART-INSTRUMENT

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RNAV TRANSITION

| FIATO TRANSITION | | | RNAV1 |
|---|------------------------|---|-------|
| Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required. | Critical DME | - | |
| | DME GAP | - | |
| | Inappropriate Nav aids | 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



MISSED APPROACH

Climb to 500FT on HDG178°, turn left to intercept and proceed via SWE R084 to ASARI and hold at 4000FT. Contact TSUIKI APP.

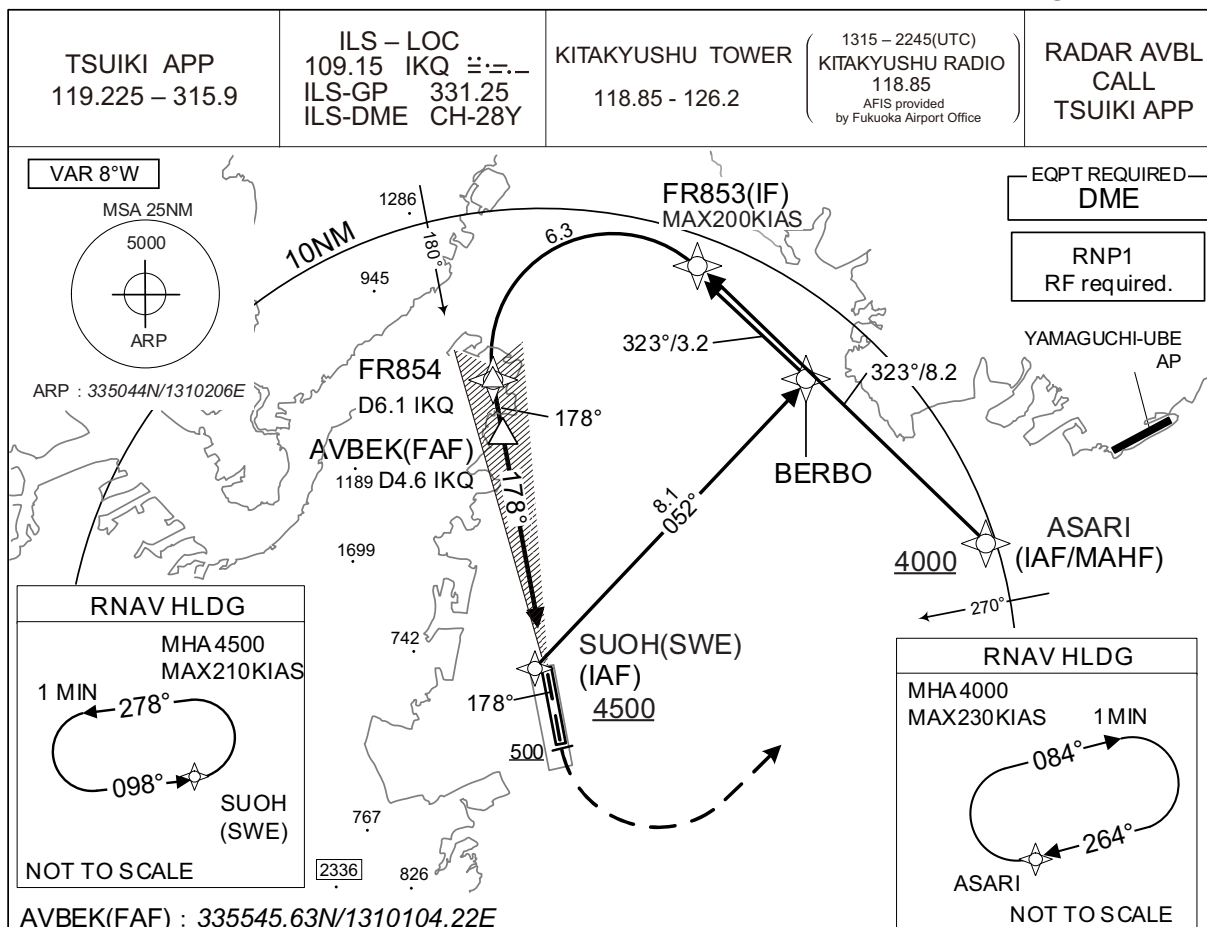
Remain within SWE 14DME

CHANGE : MAPt established.

INSTRUMENT APPROACH CHART

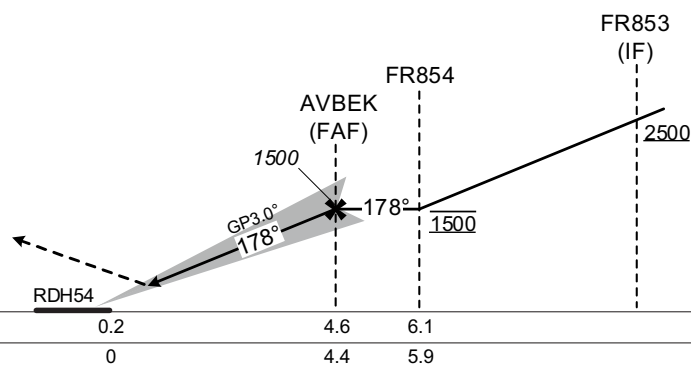
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ILS Y RWY18



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/CMV | MDA(H) | VIS |
| A | 222(200) | 550 | 500(479) | 1600 |
| B | | | | 2400 |
| C | | | 580(559) | 3200 |
| D | | | | |

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

RJFR / KITAKYUSHU

ILS Y RWY18

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

| Coding Table | | | | | | | | | | | |
|---------------|------------------------------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 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 | ASARI | - | - | -8.0 | - | - | +4000 | - | - | RNP1 |
| 002 | TF | FR853 | - | 323 (314.8) | -8.0 | 8.2 | - | +2500 | -200 | - | RNP1 |
| | | | | | | | | | | | |
| 001 | IF | SWE | - | - | -8.0 | - | - | +4500 | - | - | RNP1 |
| 002 | TF | BERBO | - | 052 (044.5) | -8.0 | 8.1 | - | - | - | - | RNP1 |
| 003 | TF | FR853 | - | 323 (314.8) | -8.0 | 3.2 | - | +2500 | -200 | - | RNP1 |
| | | | | | | | | | | | |
| 001 | IF | FR853 | - | - | -8.0 | - | - | +2500 | -200 | - | RNP1 |
| 002 | RF Center: FRRF3 r=2.50NM | FR854 | - | - | -8.0 | 6.3 | L | 1500 | - | - | RNP1 |
| | | | | | | | | | | | |
| 001 | CA | - | - | 178 (170.4) | -8.0 | - | - | +500 | - | - | RNP1 |
| 002 | DF | ASARI | - | - | -8.0 | - | L | 4000 | - | - | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|---------------------|----------------|-----------------------|-----------------------|------------------|--------------------------|
| Hold | ASARI | 264 (256.4) | -8.0 | 1.0 (-14000) | R | 4000 | FL140 | -230 (-14000) | RNP1 |
| Hold | SWE | 098 (090.0) | -8.0 | 1.0 (-14000) | L | 4500 | FL140 | -210 (-14000) | RNP1 |

| Waypoint Coordinates | | | |
|----------------------|--------------------------|--------------------------|--------------------------|
| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
| ASARI | 335338.98N / 1311252.32E | FRRF3 | 335739.78N / 1310343.74E |
| BERBO | 335710.25N / 1310836.17E | | |
| FR853 | 335926.70N / 1310550.48E | | |
| FR854 | 335714.50N / 1310045.99E | | |
| SUOH(SWE) | 335123.82N / 1310145.84E | | |

INSTRUMENT APPROACH CHART

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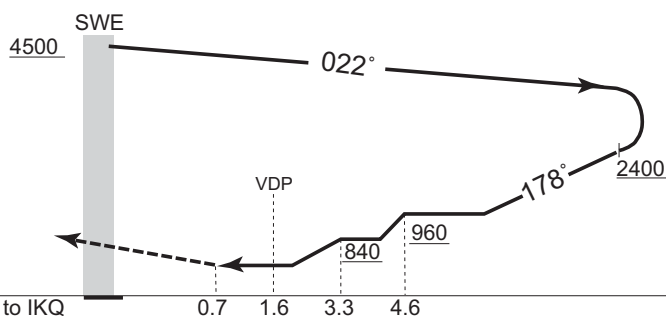
LOC Y RWY 18



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

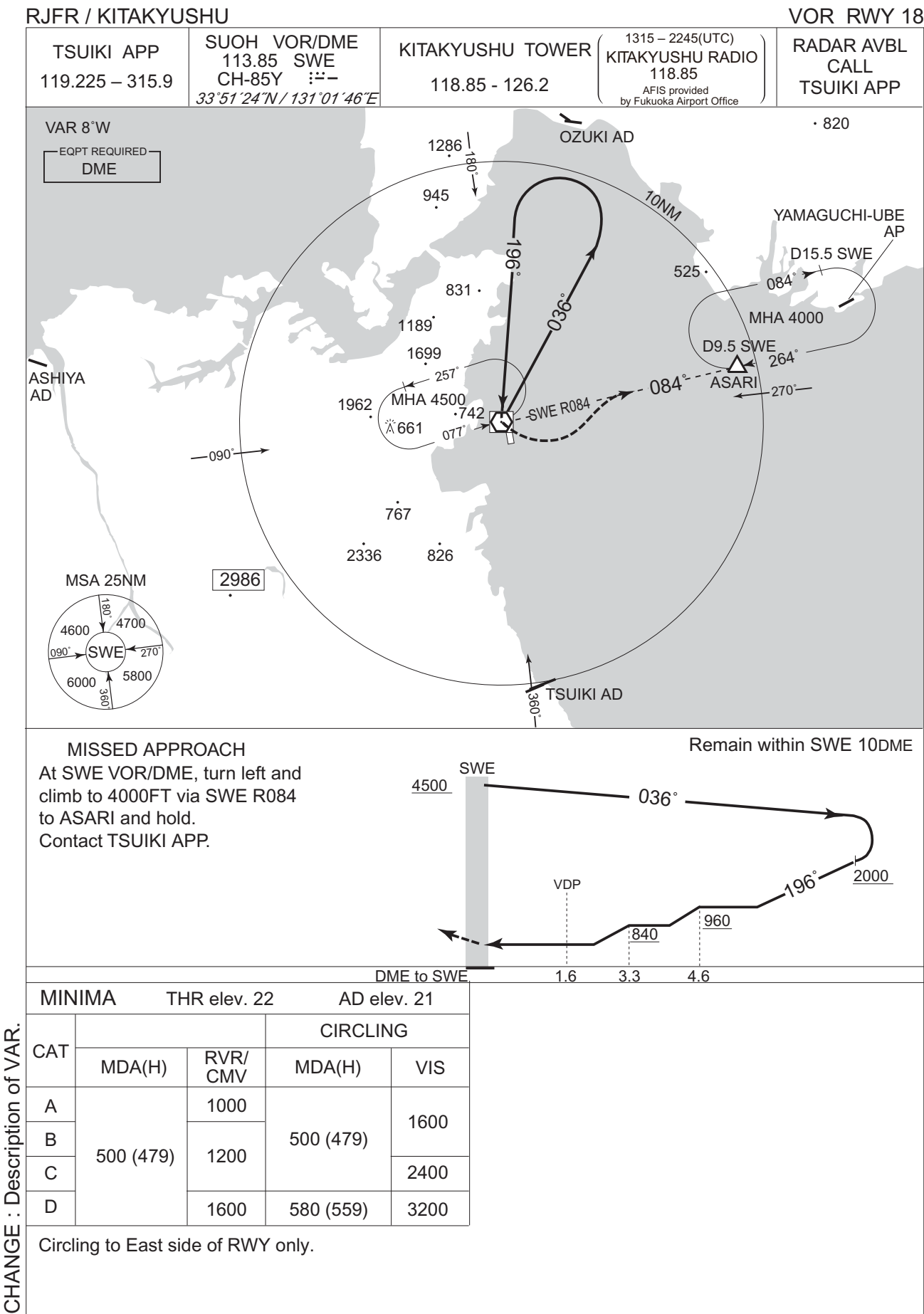


| MINIMA | | THR elev. 22 | AD elev. 21 | |
|--------|-----------|--------------|-------------|------|
| CAT | | | CIRCLING | |
| | MDA(H) | RVR/ CMV | MDA(H) | VIS |
| A | 500 (479) | 1000 | 500 (479) | 1600 |
| B | | 1200 | | 2400 |
| C | | | | |
| D | | 1600 | 580 (559) | 3200 |

Circling to East side of RWY only.

CHANGE : Description of HLDG.

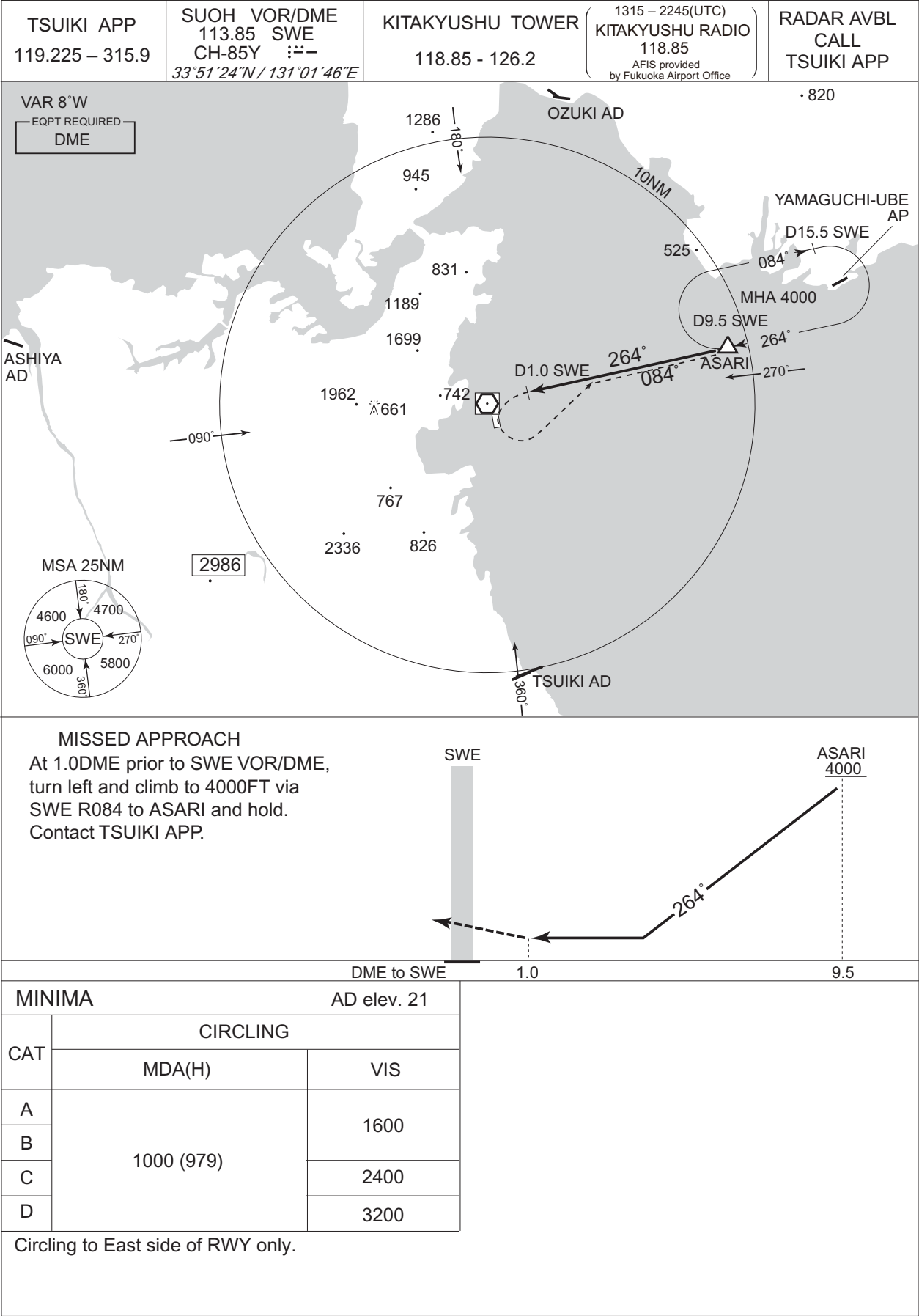
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

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VOR A



INSTRUMENT APPROACH CHART

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VOR B



CHANGE : Description of VAR.

INSTRUMENT APPROACH CHART

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RNP RWY18(AR)

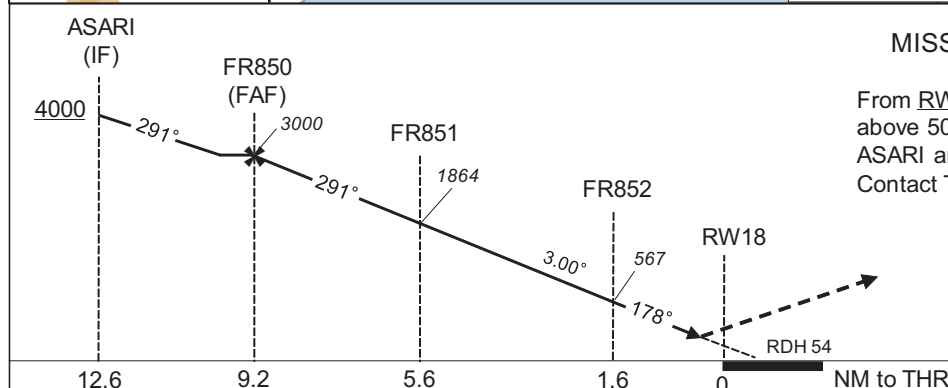
| | | | | |
|-------------------------------|------------------------|------------------------------------|--|----------------------------------|
| TSUIKI APP 119.225 - 315.9 | RNP AR RF required. | KITAKYUSHU TOWER 118.85 - 126.2 | 1315 - 2245(UTC) KITAKYUSHU RADIO 118.85 AFIS provided by Fukuoka Airport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

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



MISSED APPROACH

From RW18 on track 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 | 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

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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 |

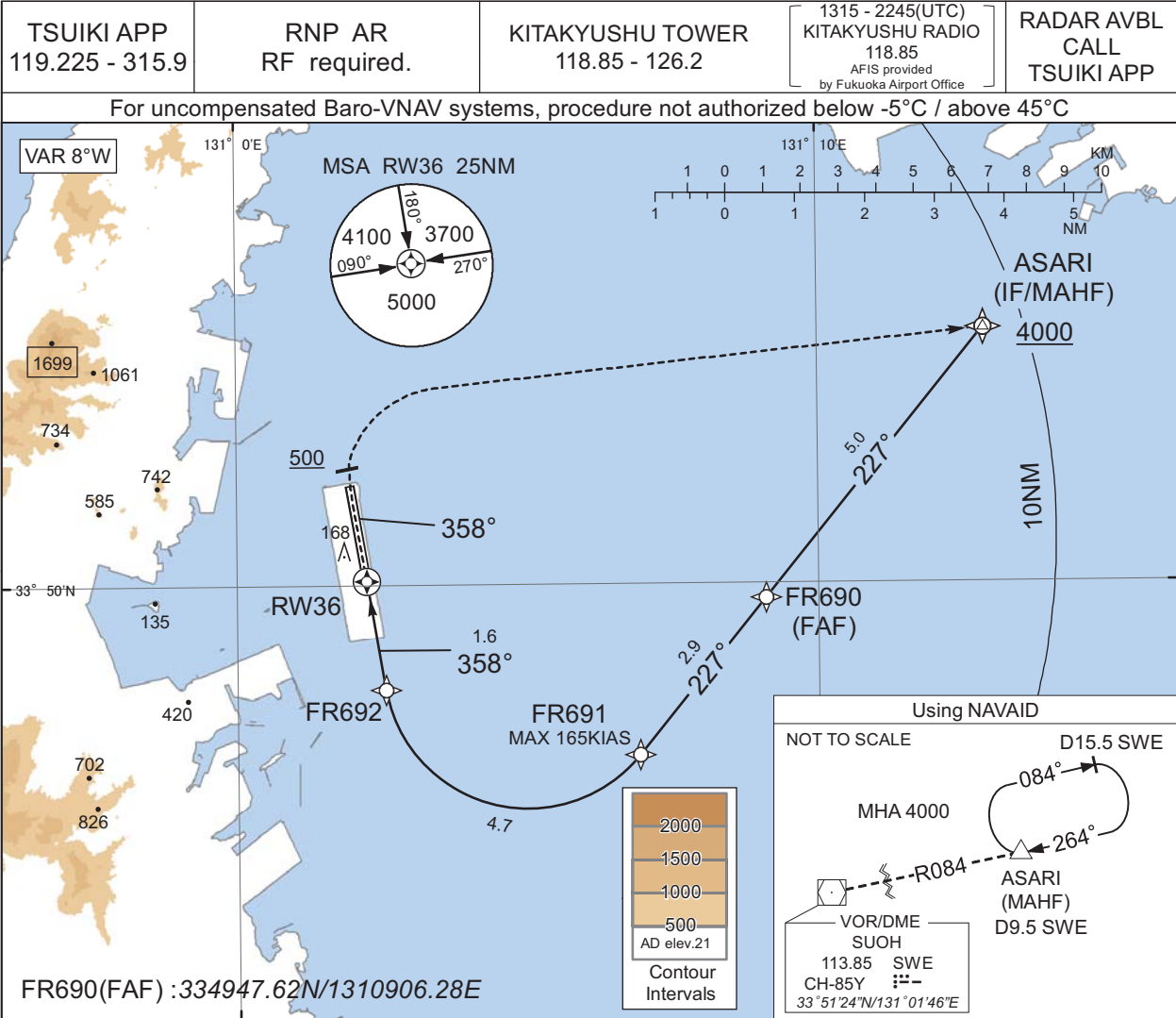
Waypoint Coordinates

| 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

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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.

NM to THR

0 1.6 6.3 9.2 14.2

RW36

RDH 50

358°

574

3.00°

2079

227°

3000

FR690 (FAF)

227°

4000

ASARI (IF)

CHANGE : Description of VAR.

| | | |
|-------------------------------------|--------------|-------------|
| 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 | 329(306) | 1600 |

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

Authorization Required

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 (219.1) | -7.9 | 5.0 | - | 3000 | - | - | 1.0 |
| 003 | TF | FR691 | - | 227 (219.0) | -7.9 | 2.9 | - | 2079 | -165 | -3.00 | 0.3 |
| 004 | RF Center: FRRF2 r=2.06NM | FR692 | - | - | -7.9 | 4.7 | R | 574 | - | -3.00 | 0.3 |
| 005 | TF | RW36 | Y | 358 (350.4) | -7.9 | 1.6 | - | 73 | - | -3.00/50 | 0.3 |
| 006 | FA | - | - | 358 (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 | | |

RJFR / KITAKYUSHU

Visual REP



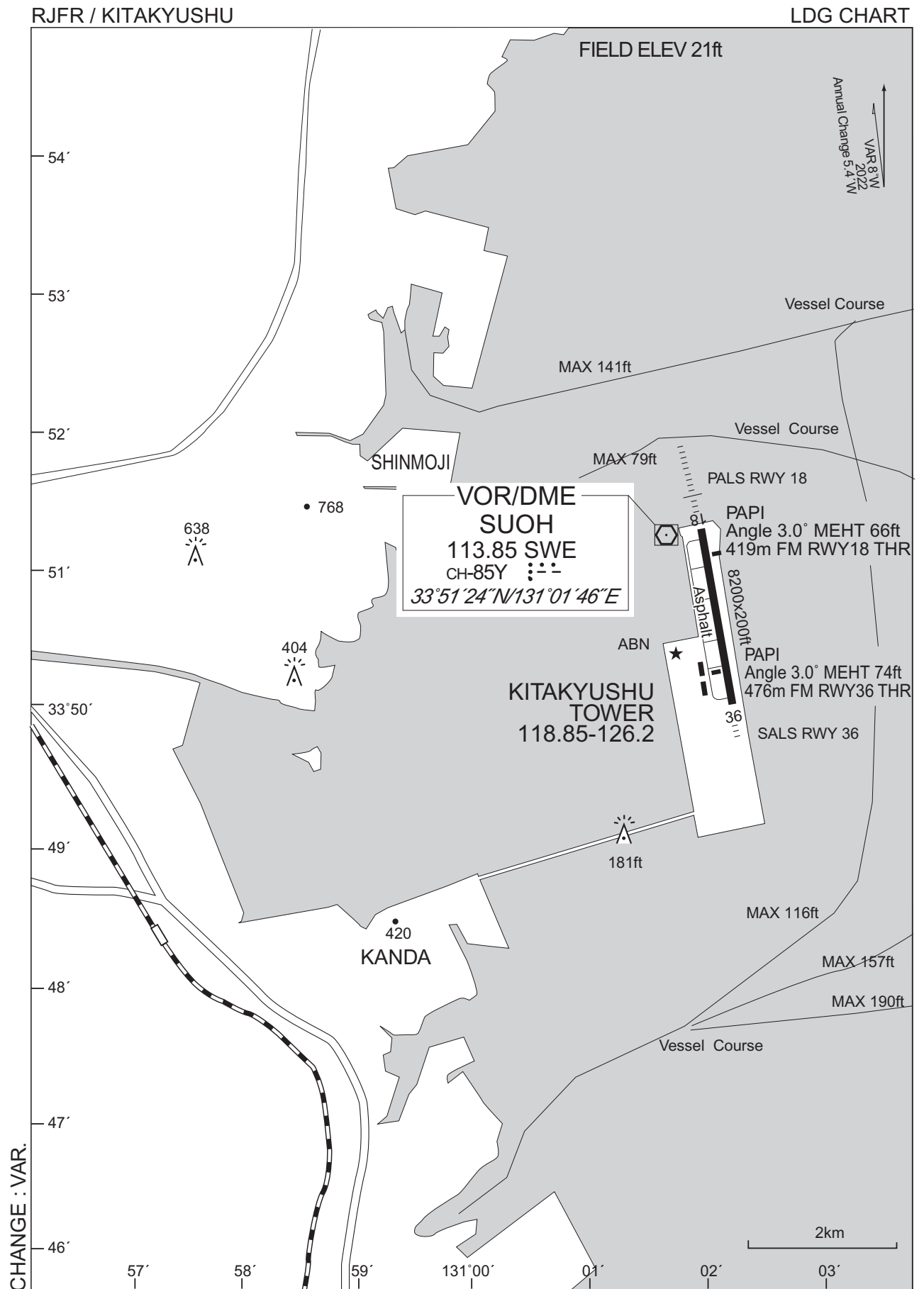
※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

RJFR / KITAKYUSHU

Visual REP

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

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



RJFR / KITAKYUSHU

Minimum Vectoring Altitude CHART

VAR 8°W (2022)



CENTER : 334041N/1310204E (RJFZ RADAR SITE)

CHANGE : VAR.