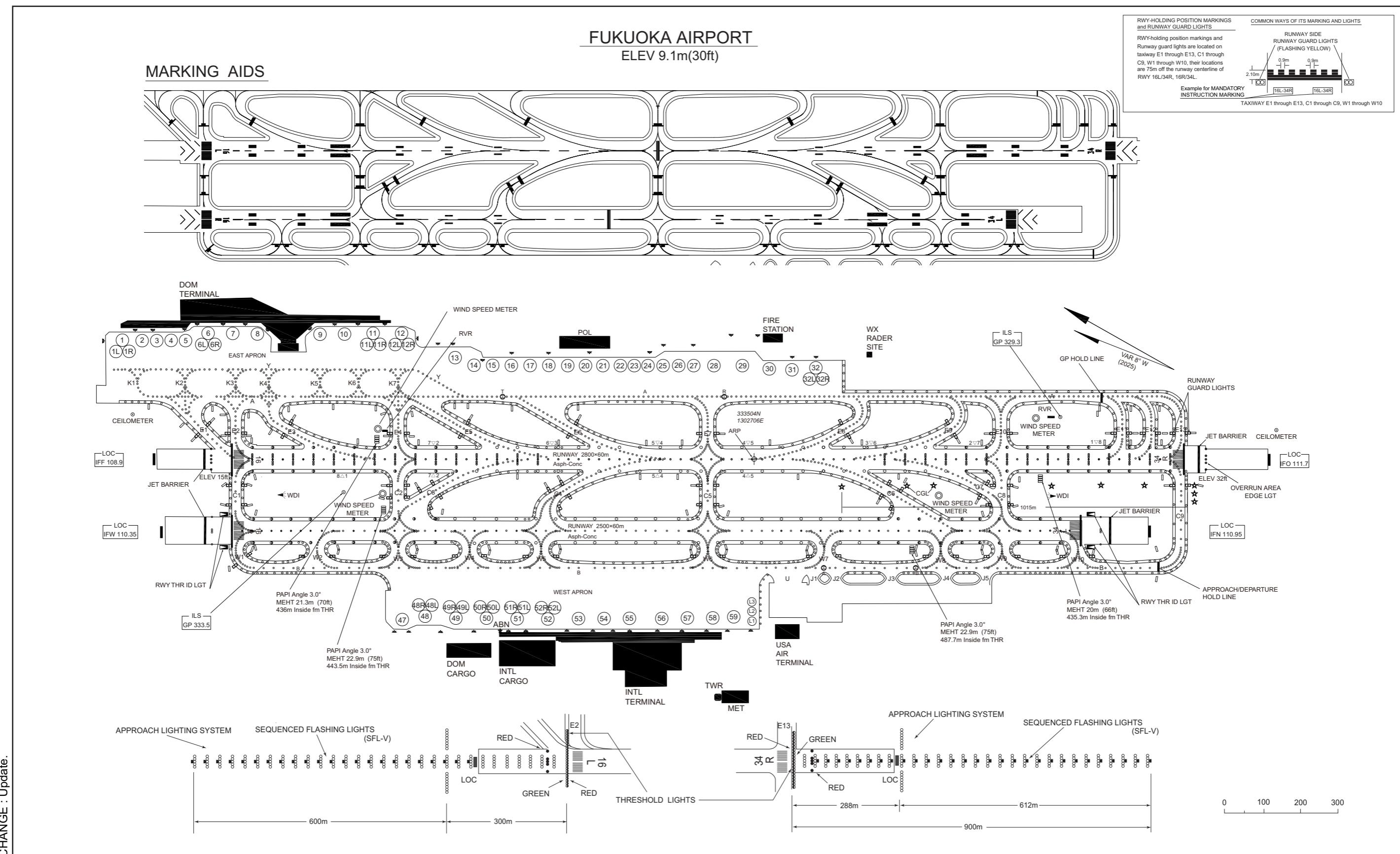
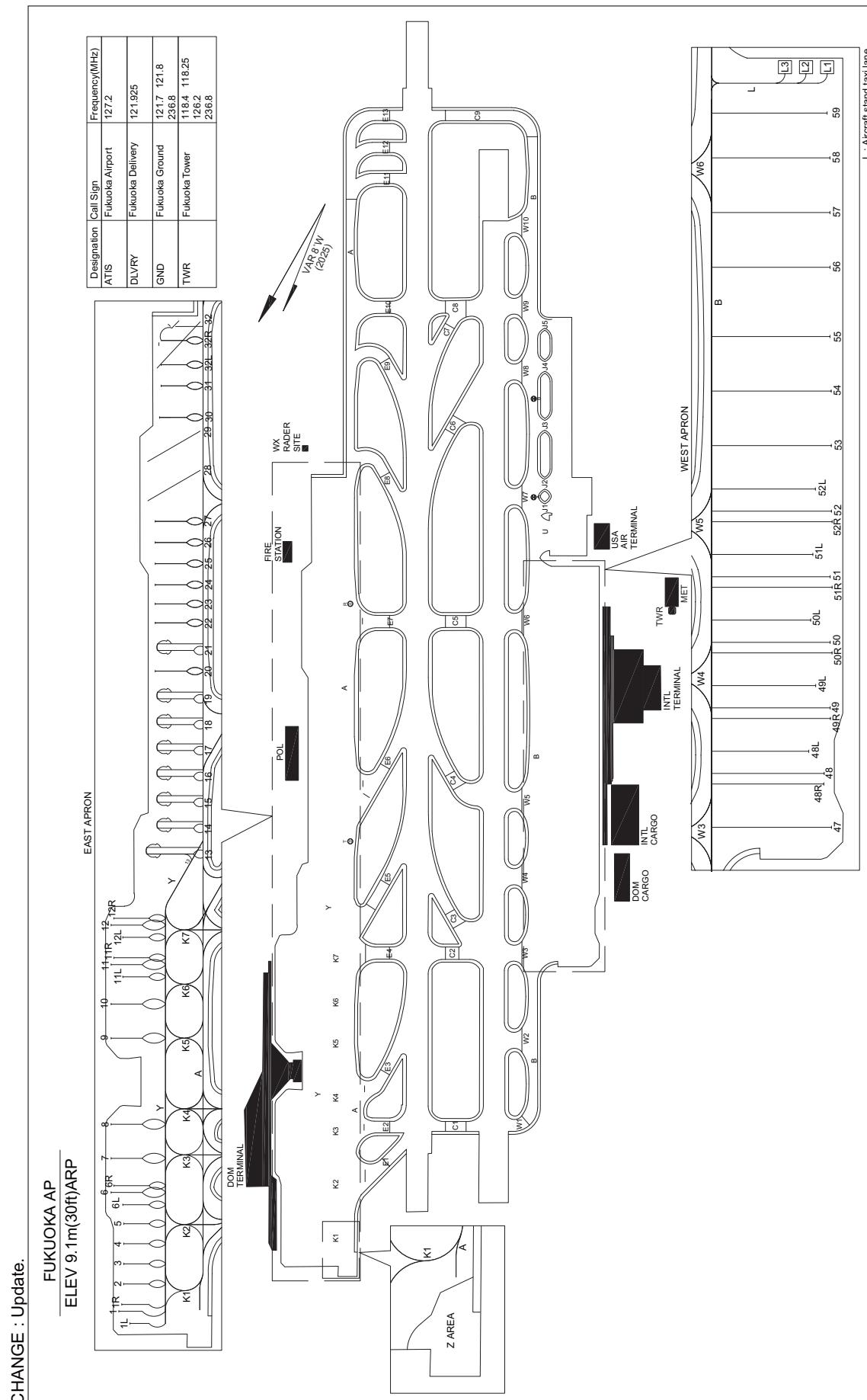


AERODROME CHART





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DIMENSIONS AND ELEVATIONS IN FEET, BEARINGS ARE MAGNETIC
Transverse Mercator Projection

MAGNETIC VARIATION 8° W-MAR 2025

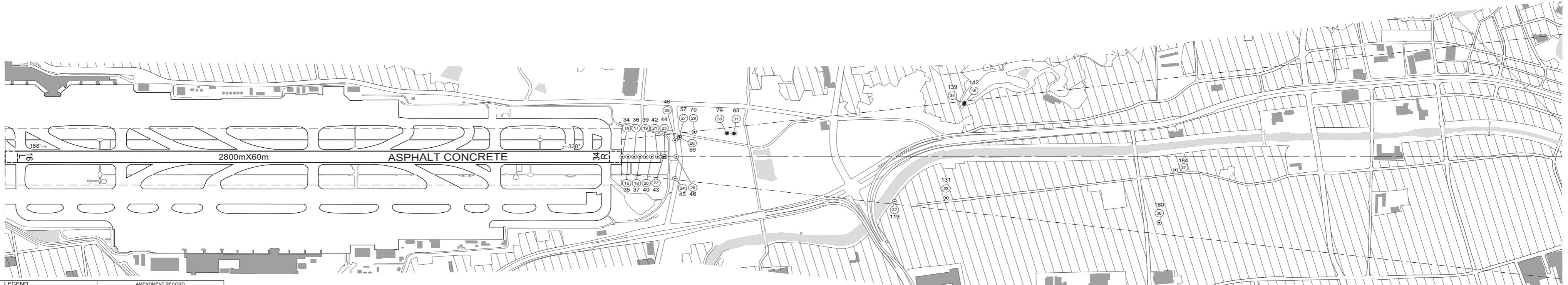
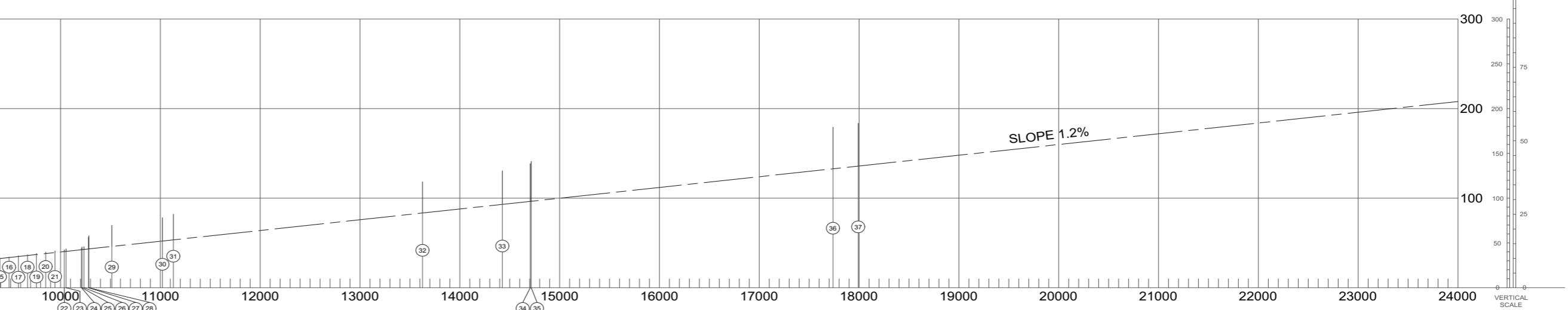
FUKUOKA AIRPORT
RWY : 16L/34R

| DECLARED DISTANCES | | |
|--------------------|------------------------------------|-------|
| RWY 16L | RWY 34R | |
| 2800m | TAKE OFF RUN AVAILABLE | 2800m |
| 2800m | TAKE OFF DISTANCE AVAILABLE | 2800m |
| 2800m | ACCELERATE STOP DISTANCE AVAILABLE | 2800m |
| 2800m | LANDING DISTANCE AVAILABLE | 2800m |

300
200
100
15
9186 0 →

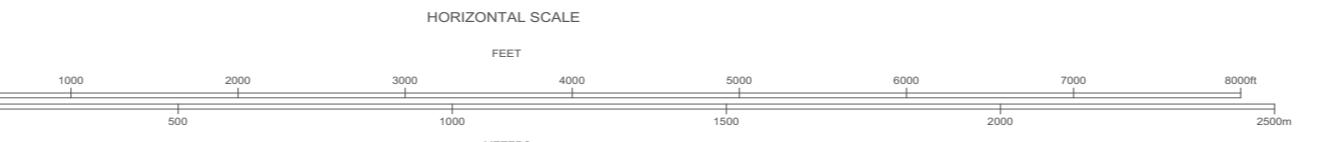
AERODROME OBSTACLE CHART-ICAO

TYPE A (OPERATING LIMITATIONS)



CHANGE:Update

| LEGEND | | | |
|--------|-------------------------------------|-----------------------|--------------|
| (1) | IDENTIFICATION NUMBER | | |
| ○ | POLE, TOWER, SPIRE, ANTENNA, ETC | | |
| ★ | AERONAUTICAL GROUND LIGHT | | |
| ※ | OBSTRUCTION LIGHT | | |
| ■ | BUILDING OR LARGE STRUCTURE | | |
| — | RAILROAD | ▲ TRIANGULATION POINT | |
| — | TRANSMISSION LINE OR OVERHEAD CABLE | | |
| --- | LEVEE | | |
| ● | TREE | ---- | RIVER |
| ○ | LAKE | ~~~~~ | CONTOURS(ft) |

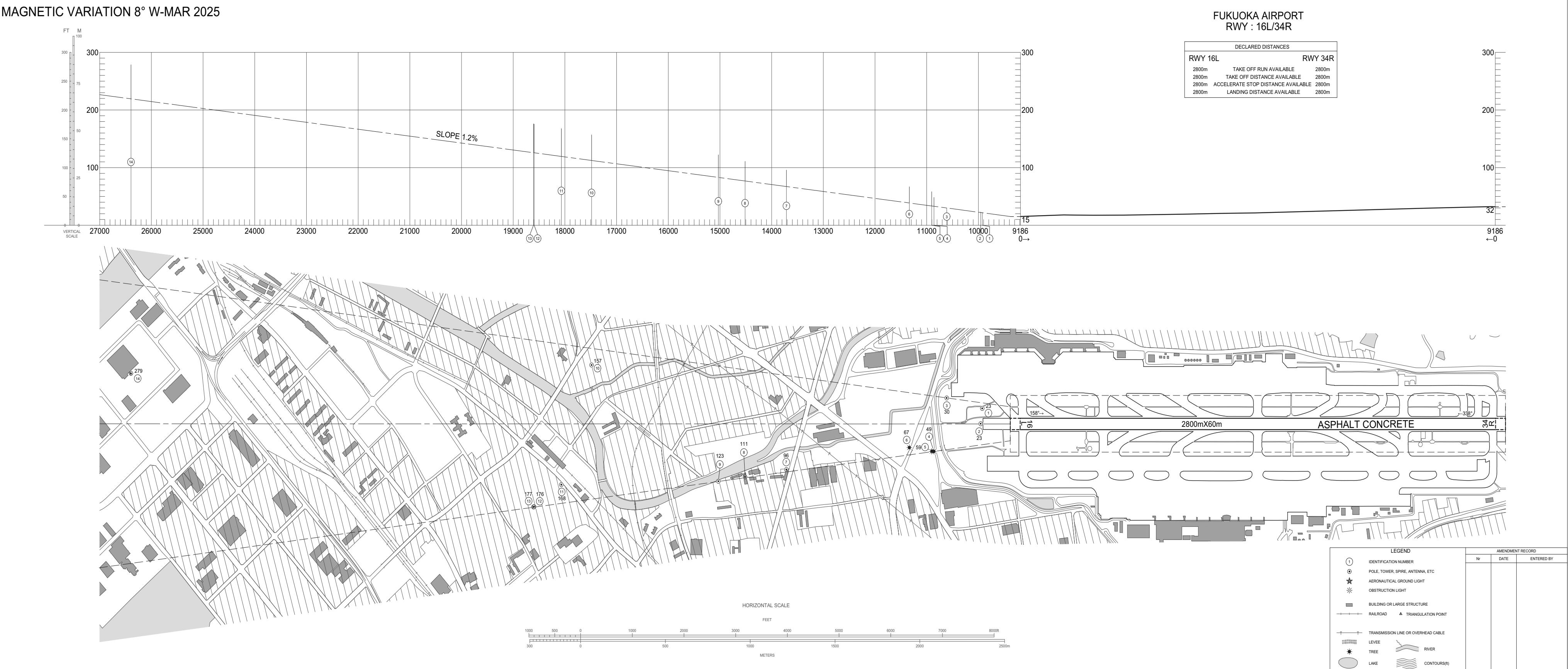


DIMENSIONS AND ELEVATIONS IN FEET, BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO

TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION 8° W-MAR 2025



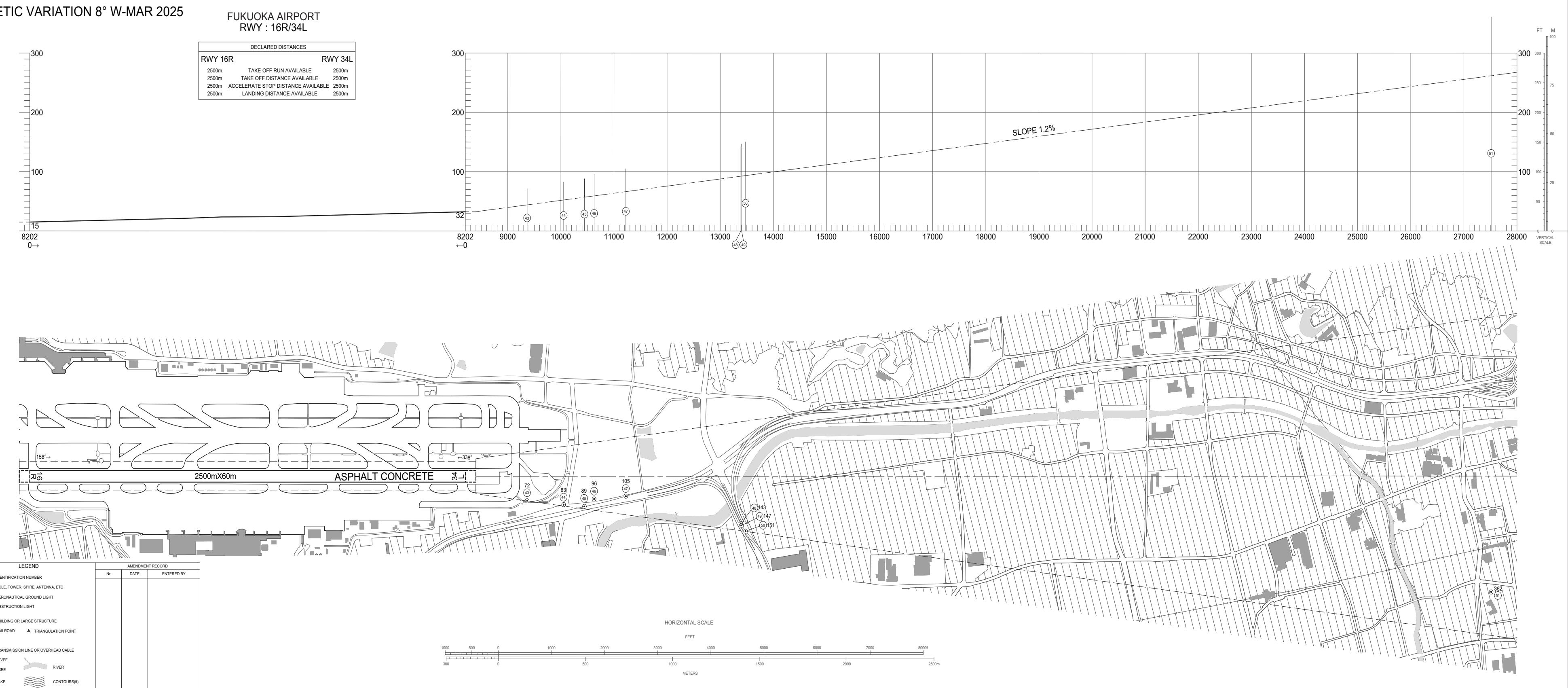
**DIMENSIONS AND ELEVATIONS IN FEET, BEARINGS ARE MAGNETIC
Transverse Mercator Projection**

AERODROME OBSTACLE CHART-ICAO TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION 8° W-MAR 2025

FUKUOKA AIRPORT
RWY : 16R/34L

| DECLARED DISTANCES | | |
|--------------------|------------------------------------|---------|
| RWY 16R | | RWY 34L |
| 2500m | TAKE OFF RUN AVAILABLE | 2500m |
| 2500m | TAKE OFF DISTANCE AVAILABLE | 2500m |
| 2500m | ACCELERATE STOP DISTANCE AVAILABLE | 2500m |
| 2500m | LANDING DISTANCE AVAILABLE | 2500m |



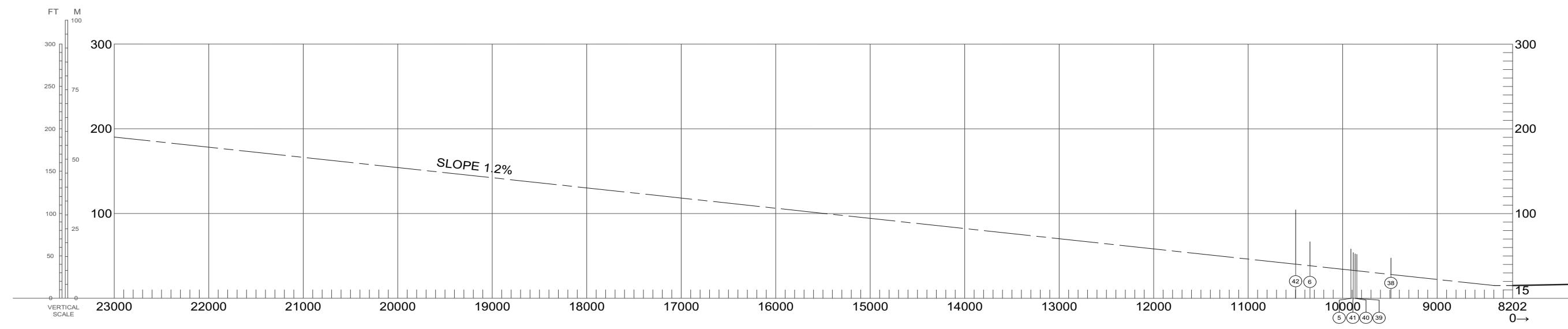
CHANGE:Update

DIMENSIONS AND ELEVATIONS IN FEET, BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO

TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION 8° W-MAR 2025



FUKUOKA AIRPORT
RWY : 16R/34L

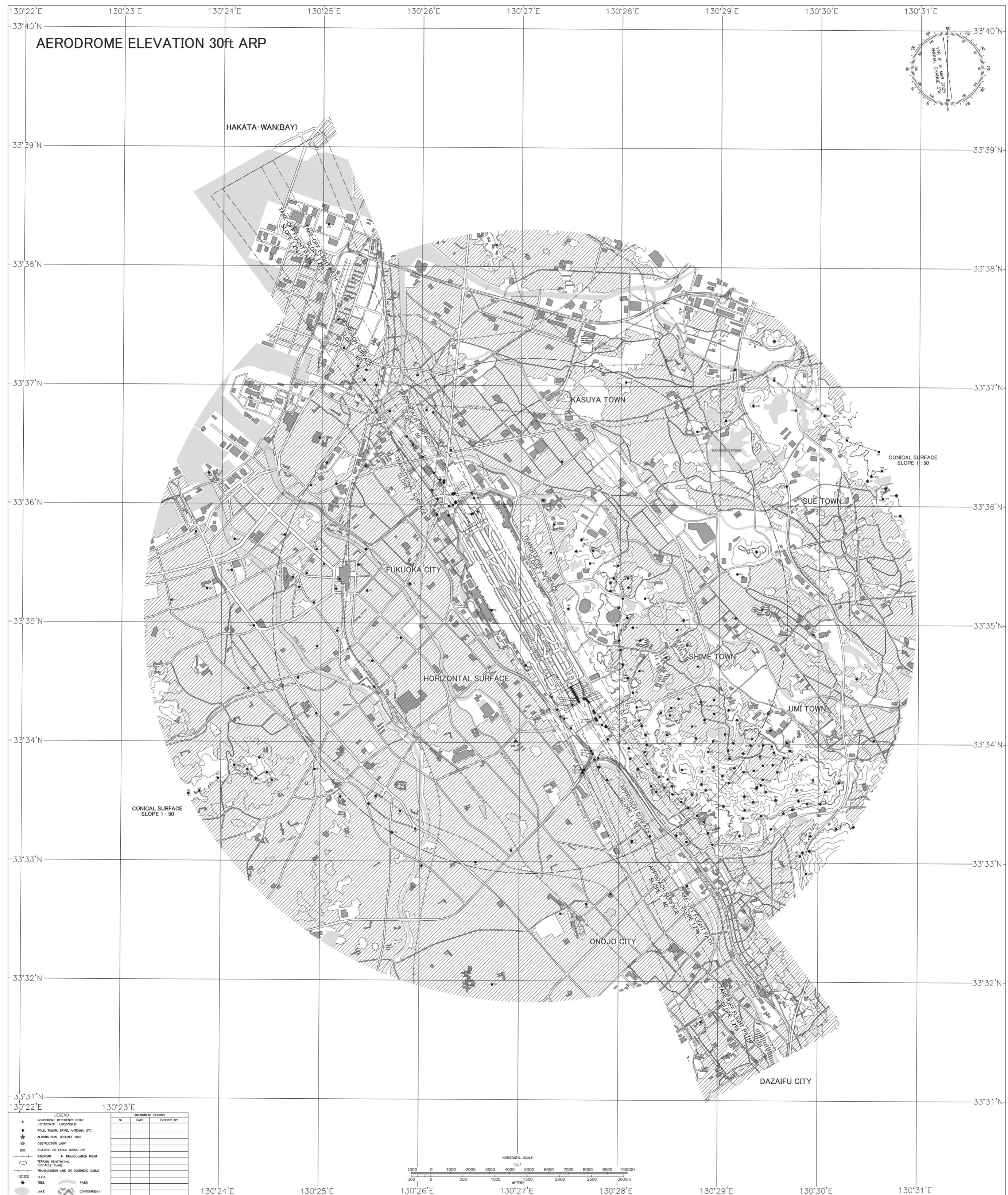
| DECLARED DISTANCES | |
|--------------------|------------------------------------|
| RWY 16R | RWY 34L |
| 2500m | TAKE OFF RUN AVAILABLE |
| 2500m | TAKE OFF DISTANCE AVAILABLE |
| 2500m | ACCELERATE STOP DISTANCE AVAILABLE |
| 2500m | LANDING DISTANCE AVAILABLE |



CHANGE:Update

AERODROME OBSTACLE CHART-ICAO TYPE B

**DIMENSIONS AND ELEVATIONS IN FEET, BEARINGS ARE MAGNETIC
Transverse Mercator Projection**



CHANGE:Update

STANDARD DEPARTURE CHART -INSTRUMENT

RJFF / FUKUOKA

SID and TRANSITION

OGUNI NINE DEPARTURE

RWY16L/16R : Climb RWY HDG to 700FT, turn right, via DGC R160 to 30.0DME, turn left, via TFE R256 to OGUNI.

Cross DGC R160/28.0DME between FL150 and FL200.

RWY34R/34L : Climb RWY HDG to 3000FT, turn right HDG176° to intercept and proceed via DGC R146 to OGUNI.

Cross DGC R146/28.0DME

at or below FL200, cross OGUNI at or above FL150.

Note RWY16L/16R : 5.8% climb gradient required up to 1100FT.

OBST ALT 399FT located at 1.2NM 138° FM end of RWY16L.

OBST ALT 1470FT located at 6.2NM 182° FM end of RWY16L.

OBST ALT 130FT located at 0.3NM 186° FM end of RWY16R.

RWY34R : 5.0% climb gradient required up to 500FT.

RWY34L : 7.0% climb gradient required up to 500FT.

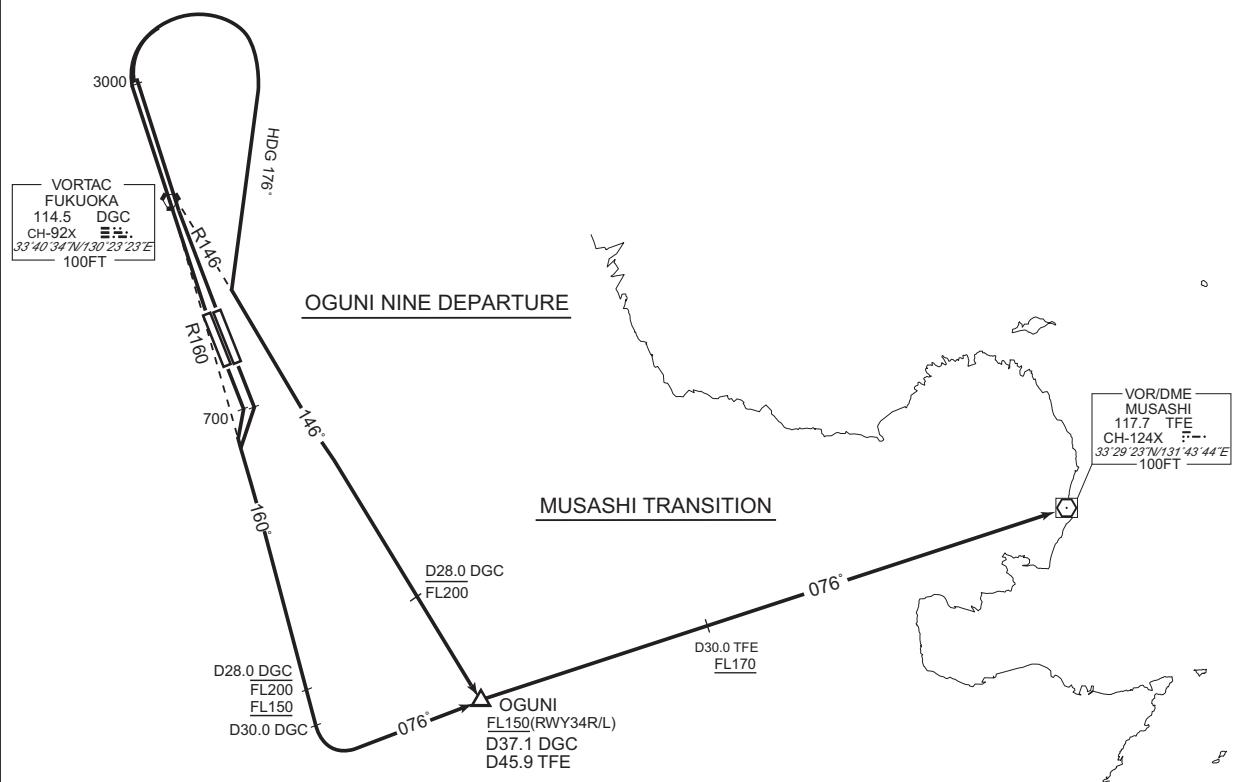
OBST ALT 135FT located at 0.3NM 309° FM end of RWY34L.

MUSASHI TRANSITION

From over OGUNI, via TFE R256 to TFE VOR/DME.

Cross TFE R256/30.0DME at or above FL170.

CHANGE : PROC renamed. ALT restriction at D9.0 DGC abolished. Climb gradient restriction. OBST.



STANDARD DEPARTURE CHART-INSTRUMENT

RJFF / FUKUOKA

SID and TRANSITION

YAMEK ONE DEPARTURE

RWY16L/16R : Climb RWY HDG to 700FT, turn right, via DGC R160 to YAMEK.
 Cross YAMEK at or above 5000FT.

RWY34R/34L : Climb RWY HDG to 3000FT, turn right HDG176° to intercept and proceed
 via DGC R146 to DGC 17.6DME, turn right, via SGE R058 to YAMEK.
 Cross YAMEK at or above 5000FT.

Note RWY16L/16R : 5.8% climb gradient required up to 1100FT.

OBST ALT 399FT located at 1.2NM 138° FM end of RWY16L.

OBST ALT 1470FT located at 6.2NM 182° FM end of RWY16L.

OBST ALT 130FT located at 0.3NM 186° FM end of RWY16R.

RWY34R : 5.0% climb gradient required up to 500FT.

RWY34L : 7.0% climb gradient required up to 500FT.

OBST ALT 135FT located at 0.3NM 309° FM end of RWY34L.

SAGA TRANSITION

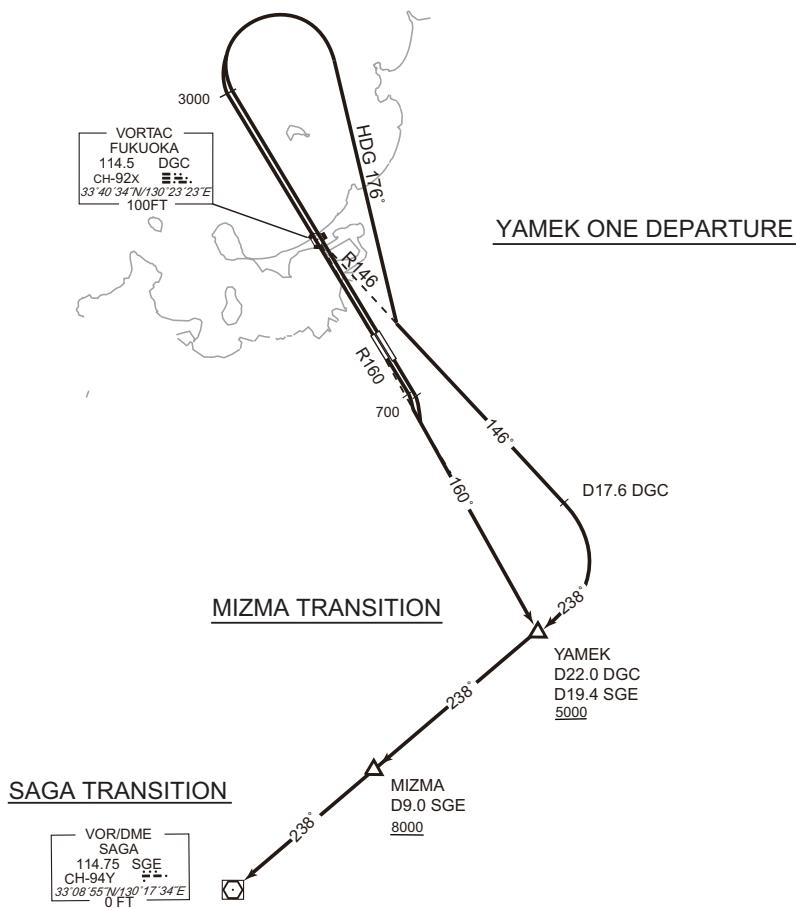
From over YAMEK, via SGE R058 to SGE VOR/DME.

MIZMA TRANSITION

From over YAMEK, via SGE R058 to MIZMA.

Cross MIZMA at or above 8000FT.

CHANGE : PROC renamed. ALT restriction at D9.0 DGC abolished. Climb gradient restriction. OBST.



STANDARD DEPARTURE CHART-INSTRUMENT

RJFF / FUKUOKA

SID and TRANSITION

YAMGA EIGHT DEPARTURE

RWY16L/16R : Climb RWY HDG to 700FT, turn right, via DGC R160 to YAMGA.
Cross DGC R160/28.0DME at or below FL200, cross YAMGA at or above 13000FT.

RWY34R/34L : Climb RWY HDG to 3000FT, turn right HDG 176° to intercept and proceed via DGC R146 to YURRY, turn right, via KUE R351 to YAMGA.
Cross KUE R351/28.0DME
at or below FL200, cross YAMGA at or above 13000FT.

Note RWY16L/16R : 5.8% climb gradient required up to 1100FT.

OBST ALT 399FT located at 1.2NM 138° FM end of RWY16L.

OBST ALT 1470FT located at 6.2NM 182° FM end of RWY16L.

OBST ALT 130FT located at 0.3NM 186° FM end of RWY16R.

RWY34R : 5.0% climb gradient required up to 500FT.

RWY34L : 7.0% climb gradient required up to 500FT.

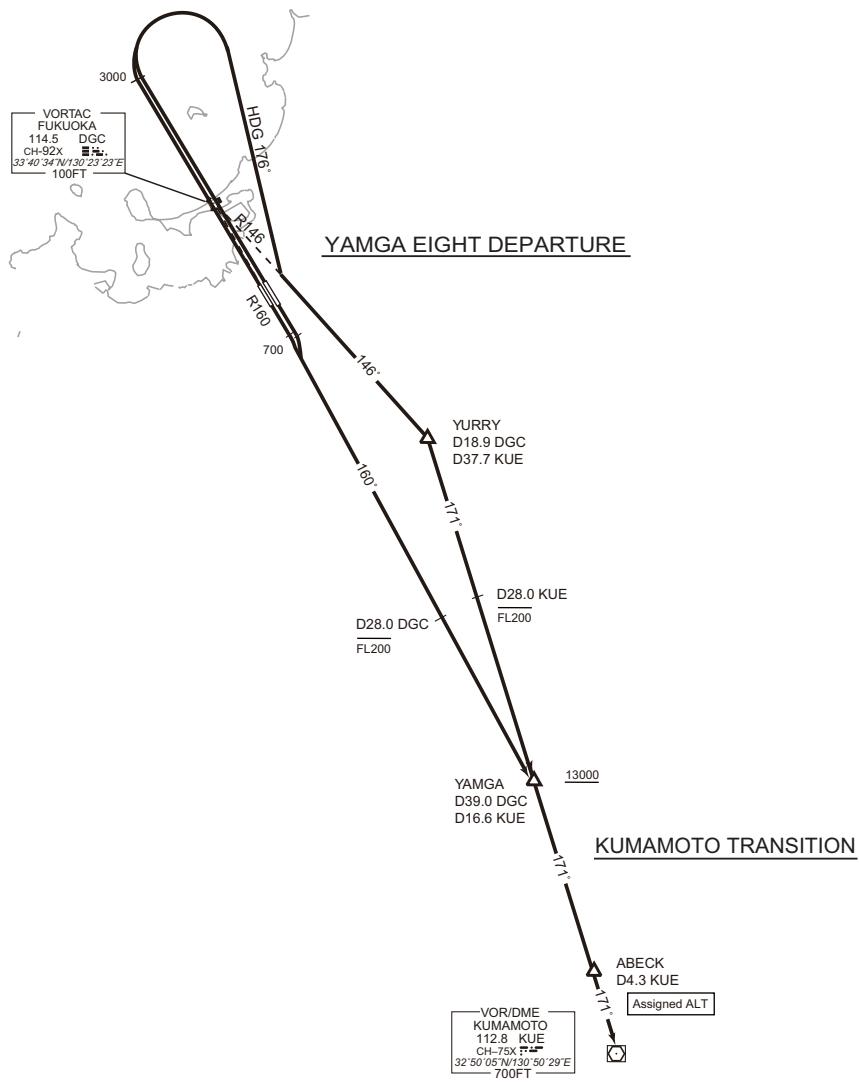
OBST ALT 135FT located at 0.3NM 309° FM end of RWY34L.

KUMAMOTO TRANSITION

From over YAMGA, via KUE R351 to KUE VOR/DME via ABECK.

Cross ABECK at assigned altitude.

CHANGE : PROC renamed. ALT restriction at D9.0 DGC abolished. Climb gradient restriction. OBST.



STANDARD DEPARTURE CHART-INSTRUMENT

RJFF / FUKUOKA

SID

FUKUOKA FIVE DEPARTURE

RWY16L/16R : Climb RWY HDG to 700FT, turn right, via DGC R160 to YAMEK, turn right, via DGC R179 (MRA 7000FT) to DGC VORTAC.

Cross YAMEK at or above 5000FT.

RWY34R/34L : Climb direct to DGC VORTAC.

Note RWY16L/16R : 5.8% climb gradient required up to 1100FT.

OBST ALT 399FT located at 1.2NM 138° FM end of RWY16L.

OBST ALT 1470FT located at 6.2NM 182° FM end of RWY16L.

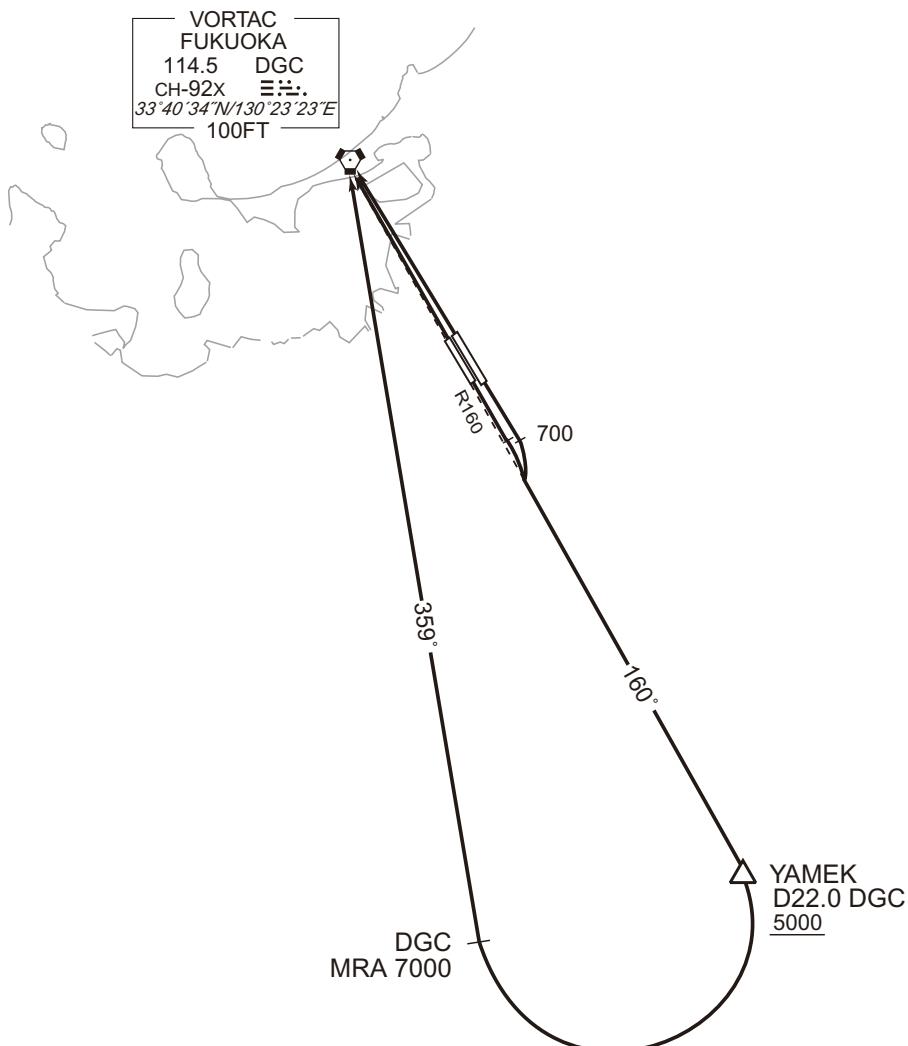
OBST ALT 130FT located at 0.3NM 186° FM end of RWY16R.

RWY34R : 5.0% climb gradient required up to 500FT.

RWY34L : 7.0% climb gradient required up to 500FT.

OBST ALT 135FT located at 0.3NM 309° FM end of RWY34L.

CHANGE : PROC renamed. Climb gradient restriction. OBST.



STANDARD DEPARTURE CHART-INSTRUMENT

RJFF / FUKUOKA

TRANSITION

KUMAMOTO TRANSITION

From over YAMGA, proceed via KUE R351 to KUE VOR/DME via ABECK.
Cross ABECK at assigned altitude.

SAGA TRANSITION

From over YAMEK, proceed via SGE R058 to SGE VOR/DME.

MIZMA TRANSITION

From over YAMEK, proceed via SGE R058 to MIZMA.
Cross MIZMA at or above 8000FT.

CHANGE : KAGOSHIMA TRANSITION, IKI TRANSITION abolished.

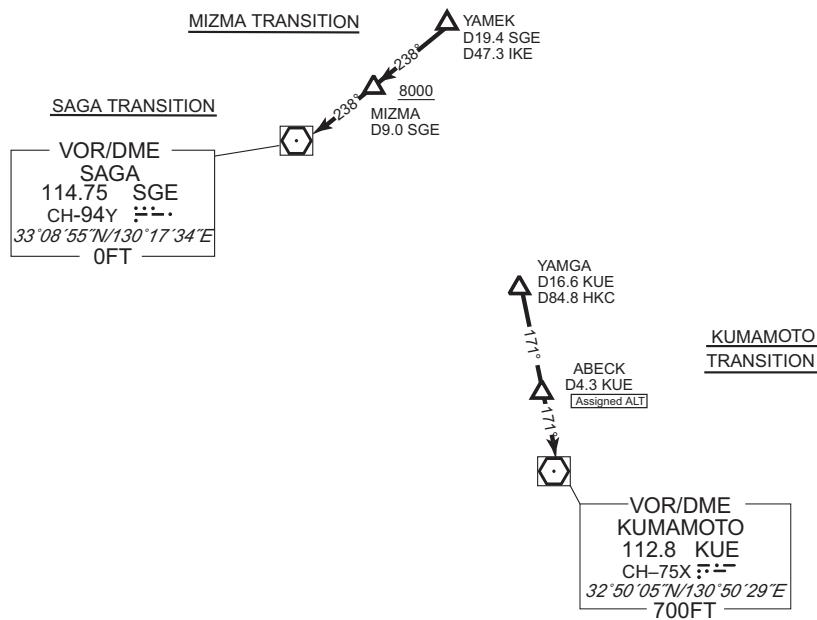
STANDARD DEPARTURE CHART-INSTRUMENT

RJFF / FUKUOKA

TRANSITION

CHANGE : KAGOSHIMA TRANSITION, IKI TRANSITION abolished.

VORTAC
FUKUOKA
114.5 DGC
CH-92X
33°40'34"N/130°23'23"E
100FT



STANDARD DEPARTURE CHART-INSTRUMENT

CHANGE : BUTUR TRANSITION, ENGID TRANSITION, IPRIR TRANSITION, F4L01, IRMEM abolished. UMAKA abolished. PROC renamed. DME GAP. Critical DME. PROC course. OBST.

| RJFF / FUKUOKA | | RNAV SID and TRANSITION | | | | |
|--|--|-------------------------|--|--|--|--|
| YOKAT SIX DEPARTURE BUTUR TRANSITION / ENGID TRANSITION / IPRIR TRANSITION | | | RNAV 1 | | | |
| Note 1) DME/DME/IRU or GNSS required. ※ 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. 2) RADAR service required. | | Critical DME | | | | |
| DME GAP | RWY16L/16R : DER - 20.3NM to IRMEM RWY34L : DER - 3.3NM to F4L01 1.8NM to F4L01 - F4L01 RWY34R : DER - 3.3NM to FF401 1.8NM to FF401 - FF401 | | RWY16L/16R DGC : 20.3NM to IRMEM - 15.5NM to IRMEM IKE : 20.3NM to IRMEM - 15.5NM to IRMEM RWY34L DGC : 3.3NM to F4L01 - 1.8NM to F4L01 IKE : 3.3NM to F4L01 - 1.8NM to F4L01 F4L01 - 2.8NM to FF402 AHT : F4L01 - 2.0NM to FF403 RWY34R DGC : 3.3NM to FF401 - 1.8NM to FF401 IKE : 3.3NM to FF401 - 1.8NM to FF401 FF401 - 2.8NM to FF402 AHT : FF401 - 2.0NM to FF403 | | | |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVADIs for RNAV1 | | | | | |
| <p>The chart shows the YOKAT SIX DEPARTURE route. It starts at YOKAT (10000ft) and follows a path to KOHZA (FL140), BRAID (FL170), and BUTUR. There are three transition routes: BUTUR TRANSITION (from YOKAT to BUTUR), ENGID TRANSITION (from YOKAT to ENGID), and IPRIR TRANSITION (from YOKAT to IPRIR). The chart also includes waypoints like FF401, FF402, FF403, YURRY, and VORTAC FUKUOKA. Specific climb gradients and altitudes are indicated along the routes.</p> | | | | | | |
| YOKAT SIX DEPARTURE RWY34R : Climb on HDG 338° at or above 500FT, direct to FF401, to FF402, to FF403, to YURRY, to FF404 at or below FL200, to YOKAT at or above 10000FT. RWY34L : Climb on HDG 338° at or above 500FT, direct to F4L01, to FF402, to FF403, to YURRY, to FF404 at or below FL200, to YOKAT at or above 10000FT. RWY16L/16R : Climb on HDG 158° at or above 500FT, direct to IRMEM at or below FL200, to YOKAT at or above 10000FT. Note RWY34R/34L : 7.0% climb gradient required up to 2800FT. RWY16L/16R : 5.8% climb gradient required up to 1100FT. OBST ALT 399FT located at 1.2NM 138° FM end of RWY16L. OBST ALT 1470FT located at 6.2NM 182° FM end of RWY16L. OBST ALT 130FT located at 0.3NM 186° FM end of RWY16R. | | | | | | |
| BUTUR TRANSITION From YOKAT at or above 10000FT, to KOHZA at or above FL140, to BRAID at or above FL170, to BUTUR. ENGID TRANSITION From YOKAT at or above 10000FT, to KOHZA at or above FL140, to BRAID at or above FL170, to ENGID. IPRIR TRANSITION From YOKAT at or above 10000FT, to KOHZA at or above FL140, to BRAID at or above FL170, to IPRIR. | | | | | | |

STANDARD DEPARTURE CHART-INSTRUMENT

RJFF / FUKUOKA

RNAV SID

YOKAT SIX DEPARTURE

RWY34R

| 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 | — | — | 338 (330.4) | -8.0 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | FF401 | — | — | -8.0 | — | — | — | — | — | RNAV1 |
| 003 | TF | FF402 | — | 068 (060.1) | -8.0 | 5.4 | — | — | — | — | RNAV1 |
| 004 | TF | FF403 | — | 158 (150.4) | -8.0 | 4.3 | — | — | — | — | RNAV1 |
| 005 | TF | YURRY | — | 165 (157.2) | -8.0 | 13.1 | — | — | — | — | RNAV1 |
| 006 | TF | FF404 | — | 137 (129.4) | -8.0 | 9.2 | — | -FL200 | — | — | RNAV1 |
| 007 | TF | YOKAT | — | 137 (129.4) | -8.0 | 3.4 | — | +10000 | — | — | RNAV1 |

RWY34L

| 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 | — | — | 338 (330.4) | -8.0 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | F4L01 | — | — | -8.0 | — | — | — | — | — | RNAV1 |
| 003 | TF | FF402 | — | 068 (060.1) | -8.0 | 5.5 | — | — | — | — | RNAV1 |
| 004 | TF | FF403 | — | 158 (150.4) | -8.0 | 4.3 | — | — | — | — | RNAV1 |
| 005 | TF | YURRY | — | 165 (157.2) | -8.0 | 13.1 | — | — | — | — | RNAV1 |
| 006 | TF | FF404 | — | 137 (129.4) | -8.0 | 9.2 | — | -FL200 | — | — | RNAV1 |
| 007 | TF | YOKAT | — | 137 (129.4) | -8.0 | 3.4 | — | +10000 | — | — | RNAV1 |

RWY16L/ RWY16R

| 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 | — | — | 158 (150.3) | -8.0 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | IRMEM | — | — | -8.0 | — | — | -FL200 | — | — | RNAV1 |
| 003 | TF | YOKAT | — | 082 (073.5) | -8.0 | 9.4 | — | +10000 | — | — | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| F4L01 | 333928.0N / 1302356.2E | YURRY | 332622.1N / 1303817.8E |
| FF401 | 333931.4N / 1302403.3E | FF404 | 332032.3N / 1304647.7E |
| FF402 | 334212.3N / 1302939.7E | IRMEM | 331544.5N / 1303908.3E |
| FF403 | 333827.6N / 1303213.2E | YOKAT | 331824.0N / 1304954.8E |

CHANGE : PROC renamed. PROG course. VAR. Waypoint Coordinates added.

STANDARD DEPARTURE CHART-INSTRUMENT

RJFF / FUKUOKA

RNAV TRANSITION

BUTUR 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 | YOKAT | — | — | -8.0 | — | — | +10000 | — | — | RNAV1 |
| 002 | TF | KOHZA | — | 082 (073.6) | -8.0 | 9.9 | — | +FL140 | — | — | RNAV1 |
| 003 | TF | BRAID | — | 082 (073.8) | -8.0 | 6.9 | — | +FL170 | — | — | RNAV1 |
| 004 | TF | BUTUR | — | 058 (049.7) | -8.0 | 30.5 | — | — | — | — | RNAV1 |

ENGID 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 | YOKAT | — | — | -8.0 | — | — | +10000 | — | — | RNAV1 |
| 002 | TF | KOHZA | — | 082 (073.6) | -8.0 | 9.9 | — | +FL140 | — | — | RNAV1 |
| 003 | TF | BRAID | — | 082 (073.8) | -8.0 | 6.9 | — | +FL170 | — | — | RNAV1 |
| 004 | TF | ENGID | — | 078 (070.4) | -8.0 | 29.5 | — | — | — | — | RNAV1 |

IPRIR 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 | YOKAT | — | — | -8.0 | — | — | +10000 | — | — | RNAV1 |
| 002 | TF | KOHZA | — | 082 (073.6) | -8.0 | 9.9 | — | +FL140 | — | — | RNAV1 |
| 003 | TF | BRAID | — | 082 (073.8) | -8.0 | 6.9 | — | +FL170 | — | — | RNAV1 |
| 004 | TF | IPRIR | — | 088 (079.8) | -8.0 | 29.6 | — | — | — | — | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates |
|---------------------|------------------------|
| YOKAT | 331824.0N / 1304954.8E |
| KOHZA | 332110.5N / 1310116.1E |
| BRAID | 332305.6N / 1310911.1E |
| BUTUR | 334245.3N / 1313707.9E |
| ENGID | 333254.3N / 1314232.6E |
| IPRIR | 332815.0N / 1314401.8E |

CHANGE : New PROC.

STANDARD DEPARTURE CHART - INSTRUMENT

RJFF / FUKUOKA

RNAV SID and TRANSITION

| KURUME FIVE DEPARTURE GABAI TRANSITION / BERSA TRANSITION | | RNAV 1 |
|---|--|--|
| Note 1) DME/DME/IRU or GNSS required. ※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. 2) RADAR service required. | Critical DME | RWY16L/16R DGC : 14.2NM to YAMEK - 9.4NM to YAMEK IKE : 14.2NM to YAMEK - 9.4NM to YAMEK RWY34L DGC : 3.3NM to F4L01 - 1.8NM to F4L01 IKE : 3.3NM to F4L01 - 1.8NM to F4L01 F4L01 - 2.8NM to FF402 AHT : F4L01 - 2.0NM to FF403 RWY34R DGC : 3.3NM to FF401 - 1.8NM to FF401 IKE : 3.3NM to FF401 - 1.8NM to FF401 FF401 - 2.8NM to FF402 AHT : FF401 - 2.0NM to FF403 |
| DME GAP | RWY16L/16R : DER - 14.2NM to YAMEK RWY34L : DER - 3.3NM to F4L01 1.8NM to F4L01 - F4L01 RWY34R : DER - 3.3NM to FF401 1.8NM to FF401 - FF401 | Inappropriate Navaids See AD1.1.6.10.3. Inappropriate NAVAIDS for RNAV1 |
| <p>VAR 8°W</p> | | |
| <p>KURUME FIVE DEPARTURE</p> <p>RWY34R : Climb on HDG 338° at or above 500FT, direct to FF401, to FF402, to FF403, to YURRY, to YAMEK.</p> <p>RWY34L : Climb on HDG 338° at or above 500FT, direct to F4L01, to FF402, to FF403, to YURRY, to YAMEK.</p> <p>RWY16L/16R : Climb on HDG 158° at or above 500FT, direct to YAMEK.</p> <p>Note RWY34R/34L : 7.0% climb gradient required up to 2800FT.</p> <p>RWY16L/16R : 5.8% climb gradient required up to 1100FT.</p> <p>OBST ALT 399FT located at 1.2NM 138° FM end of RWY16L.</p> <p>OBST ALT 1470FT located at 6.2NM 182° FM end of RWY16L.</p> <p>OBST ALT 130FT located at 0.3NM 186° FM end of RWY16R.</p> <p>BERSA TRANSITION From YAMEK, to BERSA, to OMUTA.</p> <p>GABAI TRANSITION From YAMEK, to SGE.</p> | | |

 CHANGE : F4L01, BERSA established. BRUIN abolished. GENKAI TRANSITION abolished.
 PROC renamed. DME GAP. Critical DME. PROC course. OBST.

STANDARD DEPARTURE CHART - INSTRUMENT

RJFF / FUKUOKA

RNAV SID

KURUME FIVE DEPARTURE

RWY34R

| 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 | — | — | 338 (330.4) | -8.0 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | FF401 | — | — | -8.0 | — | — | — | — | — | RNAV1 |
| 003 | TF | FF402 | — | 068 (060.1) | -8.0 | 5.4 | — | — | — | — | RNAV1 |
| 004 | TF | FF403 | — | 158 (150.4) | -8.0 | 4.3 | — | — | — | — | RNAV1 |
| 005 | TF | YURRY | — | 165 (157.2) | -8.0 | 13.1 | — | — | — | — | RNAV1 |
| 006 | TF | YAMEK | — | 211 (202.7) | -8.0 | 5.7 | — | — | — | — | RNAV1 |

RWY34L

| 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 | — | — | 338 (330.4) | -8.0 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | F4L01 | — | — | -8.0 | — | — | — | — | — | RNAV1 |
| 003 | TF | FF402 | — | 068 (060.1) | -8.0 | 5.5 | — | — | — | — | RNAV1 |
| 004 | TF | FF403 | — | 158 (150.4) | -8.0 | 4.3 | — | — | — | — | RNAV1 |
| 005 | TF | YURRY | — | 165 (157.2) | -8.0 | 13.1 | — | — | — | — | RNAV1 |
| 006 | TF | YAMEK | — | 211 (202.7) | -8.0 | 5.7 | — | — | — | — | RNAV1 |

RWY16L/ RWY16R

| 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 | — | — | 158 (150.3) | -8.0 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | YAMEK | — | — | -8.0 | — | — | — | — | — | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates |
|---------------------|------------------------|
| F4L01 | 333928.0N / 1302356.2E |
| FF401 | 333931.4N / 1302403.3E |
| FF402 | 334212.3N / 1302939.7E |
| FF403 | 333827.6N / 1303213.2E |
| YURRY | 332622.1N / 1303817.8E |
| YAMEK | 332105.9N / 1303539.5E |

CHANGE : PROC renamed. PROG course. VAR. Waypoint Coordinates added.

STANDARD DEPARTURE CHART - INSTRUMENT

CHANGE : BERSA TRANSITION established. BRUIN TRANSITION, GENKAI TRANSITION abolished. Waypoint Coordinates added.

| RJFF / FUKUOKA | | | | | | | | | | | | RNAV TRANSITION |
|-----------------------------|-----------------|---------------------|----------|------------------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|-----------------|
| <u>BERSA TRANSITION</u> | | | | | | | | | | | | |
| 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 | YAMEK | — | — | -8.0 | — | — | — | — | — | RNAV1 | |
| 002 | TF | BERSA | — | 210 (202.4) | -8.0 | 16.2 | — | — | — | — | RNAV1 | |
| 003 | TF | OMUTA | — | 210 (202.3) | -8.0 | 2.8 | — | — | — | — | RNAV1 | |
| <u>GABAI TRANSITION</u> | | | | | | | | | | | | |
| 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 | YAMEK | — | — | -8.0 | — | — | — | — | — | RNAV1 | |
| 002 | TF | SGE | — | 239 (231.2) | -8.0 | 19.4 | — | — | — | — | RNAV1 | |
| <u>Waypoint Coordinates</u> | | | | | | | | | | | | |
| Waypoint Identifier | | | | Coordinates | | | | | | | | |
| YAMEK | | | | 332105.9N / 1303539.5E | | | | | | | | |
| BERSA | | | | 330609.6N / 1302818.4E | | | | | | | | |
| OMUTA | | | | 330332.2N / 1302701.4E | | | | | | | | |
| SGE | | | | 330855.0N / 1301734.4E | | | | | | | | |

STANDARD DEPARTURE CHART - INSTRUMENT

| RJFF / FUKUOKA | | RNAV SID and TRANSITION |
|---|--|--|
| MORIO FIVE DEPARTURE VEMRA TRANSITION / SAKURA TRANSITION | | RNAV 1 |
| Note 1) DME/DME/IRU or GNSS required. ※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. 2) RADAR service required. | Critical DME | RWY16L/16R DGC : 19.6NM to FF603 - 14.8NM to FF603 IKE : 19.6NM to FF603 - 14.8NM to FF603 RWY34L DGC : 3.3NM to F4L01 - 1.8NM to F4L01 IKE : 3.3NM to F4L01 - 1.8NM to F4L01 F4L01 - 2.8NM to FF402 AHT : F4L01 - 2.0NM to FF403 RWY34R DGC : 3.3NM to FF401 - 1.8NM to FF401 IKE : 3.3NM to FF401 - 1.8NM to FF401 FF401 - 2.8NM to FF402 AHT : FF401 - 2.0NM to FF403 |
| DME GAP | RWY16L/16R : DER - 19.6NM to FF603 RWY34L : DER - 3.3NM to F4L01 1.8NM to F4L01 - F4L01 RWY34R : DER - 3.3NM to FF401 1.8NM to FF401 - FF401 | |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 | |
| | | |
| MORIO FIVE DEPARTURE VEMRA TRANSITION SAKURA TRANSITION | | |
| <p>MORIO FIVE DEPARTURE</p> <p>RWY34R : Climb on HDG 338° at or above 500FT, direct to FF401, to FF402, to FF403, to YURRY, to FF405 at or below FL200, to YAMGA at or above 13000FT.</p> <p>RWY34L : Climb on HDG 338° at or above 500FT, direct to F4L01, to FF402, to FF403, to YURRY, to FF405 at or below FL200, to YAMGA at or above 13000FT.</p> <p>RWY16L/16R : Climb on HDG 158° at or above 500FT, direct to FF603 at or below FL200, to YAMGA at or above 13000FT.</p> <p>Note RWY34R/34L : 7.0% climb gradient required up to 2800FT.</p> <p>RWY16L/16R : 5.8% climb gradient required up to 1100FT.</p> <p>OBST ALT 399FT located at 1.2NM 138° FM end of RWY16L.</p> <p>OBST ALT 1470FT located at 6.2NM 182° FM end of RWY16L.</p> <p>OBST ALT 130FT located at 0.3NM 186° FM end of RWY16R.</p> <p>SAKURA TRANSITION From YAMGA at or above 13000FT, to KUE.</p> <p>VEMRA TRANSITION From YAMGA at or above 13000FT, to VEMRA.</p> | | |

CHANGE : F4L01, VEMRA established. SATSUMA TRANSITION abolished.
PROC renamed. DME GAP. Critical DME. PROC course. OBST.

STANDARD DEPARTURE CHART - INSTRUMENT

RJFF / FUKUOKA

RNAV SID

MORIO FIVE DEPARTURE

RWY34R

| 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 | — | — | 338 (330.4) | -8.0 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | FF401 | — | — | -8.0 | — | — | — | — | — | RNAV1 |
| 003 | TF | FF402 | — | 068 (060.1) | -8.0 | 5.4 | — | — | — | — | RNAV1 |
| 004 | TF | FF403 | — | 158 (150.4) | -8.0 | 4.3 | — | — | — | — | RNAV1 |
| 005 | TF | YURRY | — | 165 (157.2) | -8.0 | 13.1 | — | — | — | — | RNAV1 |
| 006 | TF | FF405 | — | 172 (164.3) | -8.0 | 9.7 | — | -FL200 | — | — | RNAV1 |
| 007 | TF | YAMGA | — | 172 (164.3) | -8.0 | 11.4 | — | +13000 | — | — | RNAV1 |

RWY34L

| 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 | — | — | 338 (330.4) | -8.0 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | F4L01 | — | — | -8.0 | — | — | — | — | — | RNAV1 |
| 003 | TF | FF402 | — | 068 (060.1) | -8.0 | 5.5 | — | — | — | — | RNAV1 |
| 004 | TF | FF403 | — | 158 (150.4) | -8.0 | 4.3 | — | — | — | — | RNAV1 |
| 005 | TF | YURRY | — | 165 (157.2) | -8.0 | 13.1 | — | — | — | — | RNAV1 |
| 006 | TF | FF405 | — | 172 (164.3) | -8.0 | 9.7 | — | -FL200 | — | — | RNAV1 |
| 007 | TF | YAMGA | — | 172 (164.3) | -8.0 | 11.4 | — | +13000 | — | — | RNAV1 |

RWY16L/ RWY16R

| 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 | — | — | 158 (150.3) | -8.0 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | FF603 | — | — | -8.0 | — | — | -FL200 | — | — | RNAV1 |
| 003 | TF | YAMGA | — | 161 (152.6) | -8.0 | 11.5 | — | +13000 | — | — | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| F4L01 | 333928.0N / 1302356.2E | YURRY | 332622.1N / 1303817.8E |
| FF401 | 333931.4N / 1302403.3E | FF405 | 331704.3N / 1304125.8E |
| FF402 | 334212.3N / 1302939.7E | FF603 | 331620.4N / 1303847.3E |
| FF403 | 333827.6N / 1303213.2E | YAMGA | 330605.9N / 1304507.3E |

CHANGE : PROC renamed. PROG course. VAR. Waypoint Coordinates added.

STANDARD DEPARTURE CHART - INSTRUMENT

| RJFF / FUKUOKA | | | | | | | | | | RNAV TRANSITION | | | |
|-----------------------------|-----------------|---------------------|----------|----------------|------------------------|---------------|----------------|---------------|--------------|-----------------|--------------------------|--|--|
| <u>SAKURA TRANSITION</u> | | | | | | | | | | | | | |
| 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 | YAMGA | — | — | -8.0 | — | — | +13000 | — | — | RNAV1 | | |
| 002 | TF | KUE | — | 172 (164.3) | -8.0 | 16.6 | — | — | — | — | RNAV1 | | |
| <u>VEMRA TRANSITION</u> | | | | | | | | | | | | | |
| 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 | YAMGA | — | — | -8.0 | — | — | +13000 | — | — | RNAV1 | | |
| 002 | TF | VEMRA | — | 194 (185.9) | -8.0 | 11.5 | — | — | — | — | RNAV1 | | |
| <u>Waypoint Coordinates</u> | | | | | | | | | | | | | |
| Waypoint Identifier | | | | | Coordinates | | | | | | | | |
| YAMGA | | | | | 330605.9N / 1304507.3E | | | | | | | | |
| KUE | | | | | 325005.3N / 1305029.5E | | | | | | | | |
| VEMRA | | | | | 325439.2N / 1304343.3E | | | | | | | | |

CHANGE : VEMRA TRANSITION established SATSUMA TRANSITION abolished. Waypoint Coordinates added.

STANDARD DEPARTURE CHART - INSTRUMENT

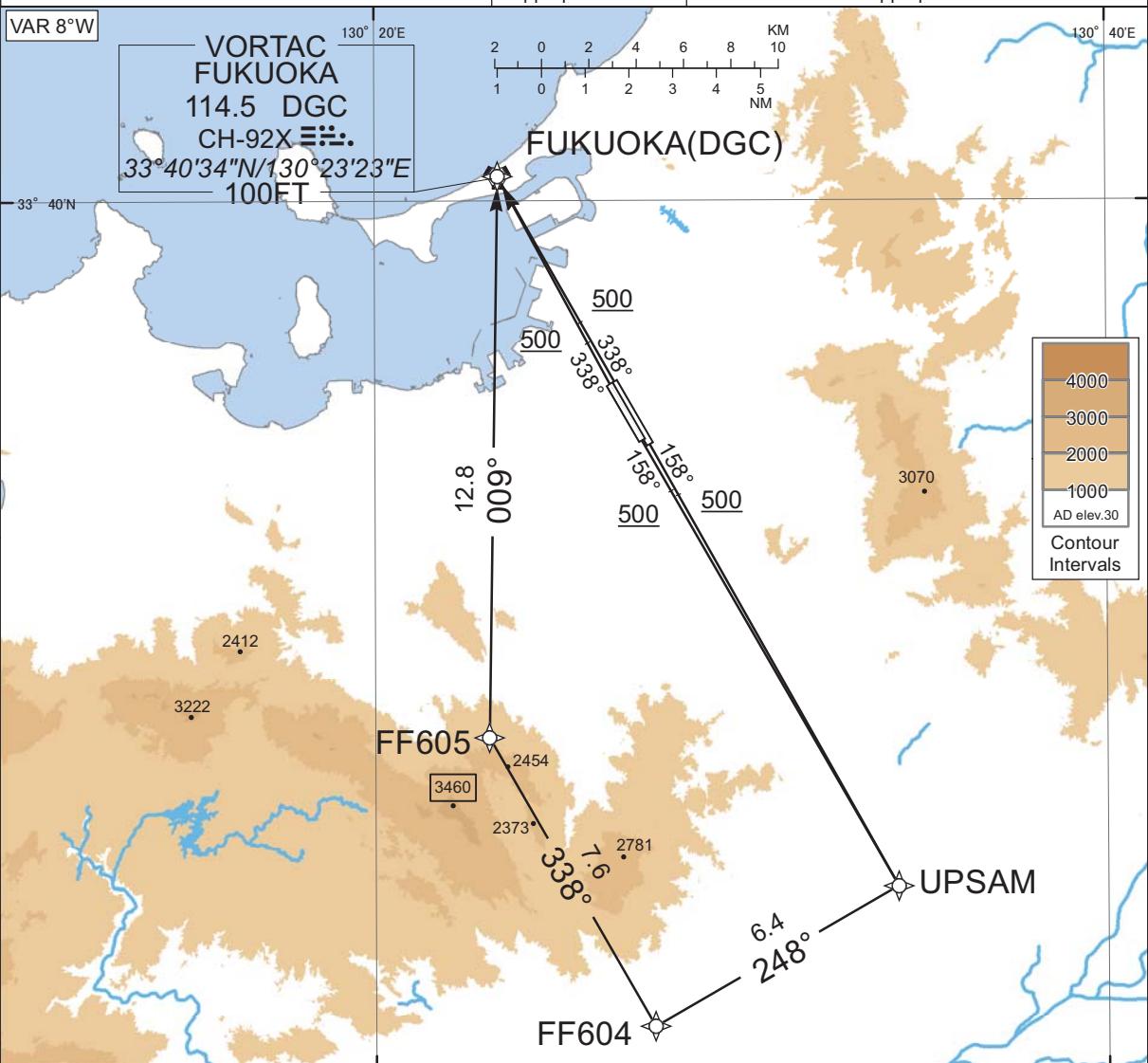
RJFF / FUKUOKA

RNAV SID

HAKATA FIVE DEPARTURE

RNAV 1

| | | | |
|--|-----------------------|--|--|
| Note 1) DME/DME/IRU or GNSS required. ※ 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. 2) RADAR service required. | Critical DME | RWY16L/16R DGC: 10.8NM to UPSAM - 6.0NM to UPSAM IKE: 10.8NM to UPSAM - 6.0NM to UPSAM RWY34L/34R DGC: 4.5NM to DGC - 3.0NM to DGC IKE: 4.5NM to DGC - 3.0NM to DGC | |
| | DME GAP | RWY16L/16R: DER-10.8NM to UPSAM RWY34L/34R: DER-4.5NM to DGC 3.0NM to DGC - DGC | |
| | Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 | |



RWY34R/34L : Climb on HDG 338° at or above 500FT, direct to DGC.

RWY16L/16R : Climb on HDG 158° at or above 500FT, direct to UPSAM, to FF604, to FF605, to DGC.

Note RWY34R : 5.0% climb gradient required up to 500FT.

RWY34L : 7.0% climb gradient required up to 500FT.

OBST ALT 135FT located at 0.3NM 309° FM end of RWY34L.

RWY16L/16R : 5.8% climb gradient required up to 2900FT.

OBST ALT 399FT located at 1.2NM 138° FM end of RWY16L.

OBST ALT 3481FT located at 9.7NM 213° FM end of RWY16L.

OBST ALT 130FT located at 0.3NM 186° FM end of RWY16R.

CHANGE : PROC renamed. Critical DME. DME GAP. PROC course. FF604, FF605, UPSAM established. OBST.

STANDARD DEPARTURE CHART - INSTRUMENT

RJFF / FUKUOKA

RNAV SID

HAKATA FIVE DEPARTURE

RWY34R / RWY34L

| 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 | - | - | 338 (330.4) | -8.0 | - | - | +500 | - | - | RNAV1 |
| 002 | DF | DGC | - | - | -8.0 | - | - | - | - | - | RNAV1 |

RWY16L / RWY16R

| 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 | - | - | 158 (150.3) | -8.0 | - | - | +500 | - | - | RNAV1 |
| 002 | DF | UPSAM | - | - | -8.0 | - | - | - | - | - | RNAV1 |
| 003 | TF | FF604 | - | 248 (240.2) | -8.0 | 6.4 | - | - | - | - | RNAV1 |
| 004 | TF | FF605 | - | 338 (330.4) | -8.0 | 7.6 | - | - | - | - | RNAV1 |
| 005 | TF | DGC | - | 009 (001.0) | -8.0 | 12.8 | - | - | - | - | RNAV1 |

Waypoint Coordinates

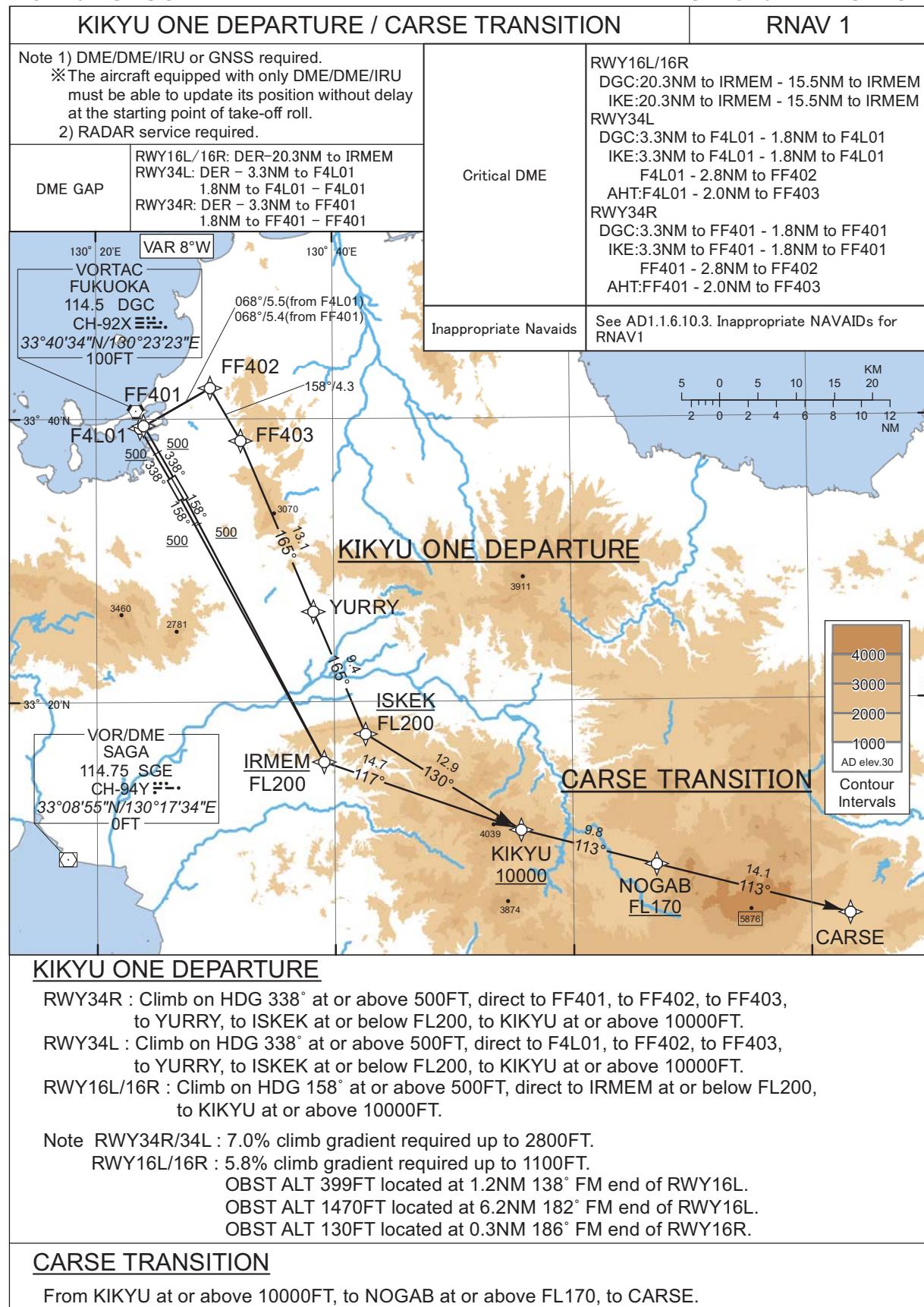
| Waypoint Identifier | Coordinates |
|---------------------|------------------------|
| UPSAM | 332418.8N / 1303416.6E |
| FF604 | 332107.6N / 1302737.7E |
| FF605 | 332744.2N / 1302307.1E |
| DGC | 334034.4N / 1302322.7E |

CHANGE : PROC renamed. PROC course. VAR. UPSAM, FF604, FF605 established. Waypoint Coordinates added.

STANDARD DEPARTURE CHART -INSTRUMENT

RJFF / FUKUOKA

RNAV SID and TRANSITION



CHANGE : New PROC.

STANDARD DEPARTURE CHART -INSTRUMENT

RJFF / FUKUOKA

RNAV SID

KIKYU ONE DEPARTURE

RWY34R

| 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 | - | - | 338 (330.4) | -8.0 | - | - | +500 | - | - | RNAV1 |
| 002 | DF | FF401 | - | - | -8.0 | - | - | - | - | - | RNAV1 |
| 003 | TF | FF402 | - | 068 (060.1) | -8.0 | 5.4 | - | - | - | - | RNAV1 |
| 004 | TF | FF403 | - | 158 (150.4) | -8.0 | 4.3 | - | - | - | - | RNAV1 |
| 005 | TF | YURRY | - | 165 (157.2) | -8.0 | 13.1 | - | - | - | - | RNAV1 |
| 006 | TF | ISKEK | - | 165 (157.3) | -8.0 | 9.4 | - | -FL200 | - | - | RNAV1 |
| 007 | TF | KIKYU | - | 130 (122.1) | -8.0 | 12.9 | - | +10000 | - | - | RNAV1 |

RWY34L

| 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 | - | - | 338 (330.4) | -8.0 | - | - | +500 | - | - | RNAV1 |
| 002 | DF | F4L01 | - | - | -8.0 | - | - | - | - | - | RNAV1 |
| 003 | TF | FF402 | - | 068 (060.1) | -8.0 | 5.5 | - | - | - | - | RNAV1 |
| 004 | TF | FF403 | - | 158 (150.4) | -8.0 | 4.3 | - | - | - | - | RNAV1 |
| 005 | TF | YURRY | - | 165 (157.2) | -8.0 | 13.1 | - | - | - | - | RNAV1 |
| 006 | TF | ISKEK | - | 165 (157.3) | -8.0 | 9.4 | - | -FL200 | - | - | RNAV1 |
| 007 | TF | KIKYU | - | 130 (122.1) | -8.0 | 12.9 | - | +10000 | - | - | RNAV1 |

RWY16L/RWY16R

| 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 | - | - | 158 (150.3) | -8.0 | - | - | +500 | - | - | RNAV1 |
| 002 | DF | IRMEM | - | - | -8.0 | - | - | -FL200 | - | - | RNAV1 |
| 003 | TF | KIKYU | - | 117 (109.4) | -8.0 | 14.7 | - | +10000 | - | - | RNAV1 |

CHANGE : New PROC.

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| F4L01 | 333928.0N / 1302356.2E | YURRY | 332622.1N / 1303817.8E |
| FF401 | 333931.4N / 1302403.3E | ISKEK | 331742.3N / 1304238.0E |
| FF402 | 334212.3N / 1302939.7E | IRMEM | 331544.5N / 1303908.3E |
| FF403 | 333827.6N / 1303213.2E | KIKYU | 331051.1N / 1305540.3E |

STANDARD DEPARTURE CHART -INSTRUMENT

RJFF / FUKUOKA

RNAV TRANSITION

CARSE 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 | KIKYU | - | - | -8.0 | - | - | +10000 | - | - | RNAV1 |
| 002 | TF | NOGAB | - | 113 (104.5) | -8.0 | 9.8 | - | +FL170 | - | - | RNAV1 |
| 003 | TF | CARSE | - | 113 (104.5) | -8.0 | 14.1 | - | - | - | - | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates |
|---------------------|------------------------|
| KIKYU | 331051.1N / 1305540.3E |
| NOGAB | 330822.5N / 1310702.1E |
| CARSE | 330448.4N / 1312315.4E |

CHANGE : New PROC.

STANDARD ARRIVAL CHART-INSTRUMENT

RJFF / FUKUOKA

STAR

EBISU A ARRIVAL

From over EBISU, via IKE R074 to intercept and proceed via DGC R338 to AKTIB via LAGER.

Cross LAGER at or above 3000FT, cross AKTIB at or above 2000FT.

EBISU B ARRIVAL

From over EBISU, via IKE R074 to intercept and proceed via DGC R336 to BIXAB.

Cross BIXAB at or above 2000FT.

IKI A ARRIVAL

From over IKE VOR/DME, via IKE R074 to intercept and proceed via DGC R338 to AKTIB via LAGER.

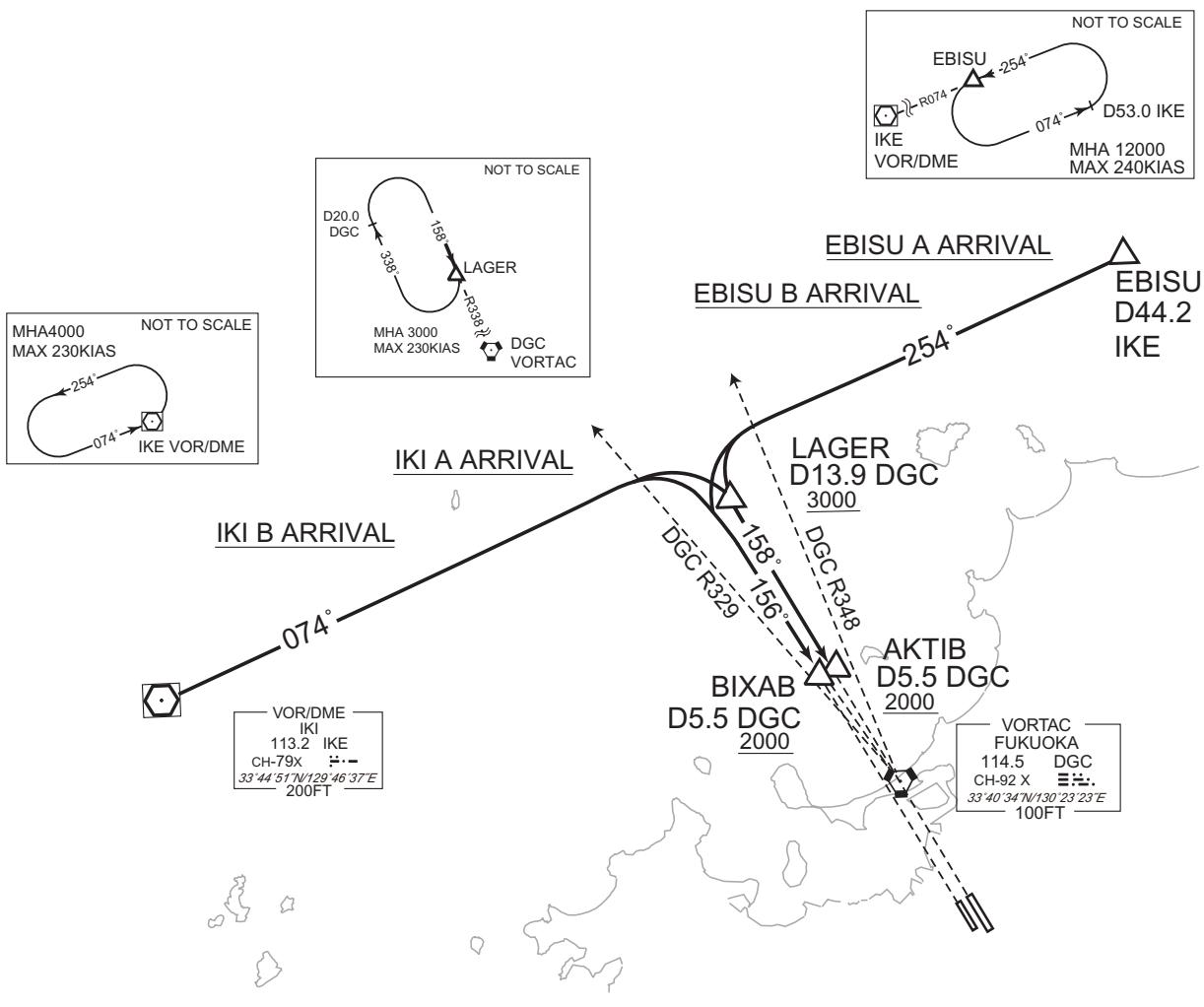
Cross LAGER at or above 3000FT, cross AKTIB at or above 2000FT.

IKI B ARRIVAL

From over IKE VOR/DME, via IKE R074 to intercept and proceed via DGC R336 to BIXAB.

Cross BIXAB at or above 2000FT.

CHANGE : New PROC.



STANDARD ARRIVAL CHART-INSTRUMENT

RJFF / FUKUOKA

STAR

EBISU E ARRIVAL

From over EBISU, proceed via IKE R074 to intercept and proceed via SGE R353 to IGDER, via KUE R329, to intercept and proceed via SGE R064 to ADPAR.
 Cross SGE R353/36.0DME between 7000FT and 10000FT, cross KUE R329/35.0DME at or above 6000FT, cross ADPAR at or above 4000FT.

EBISU W ARRIVAL

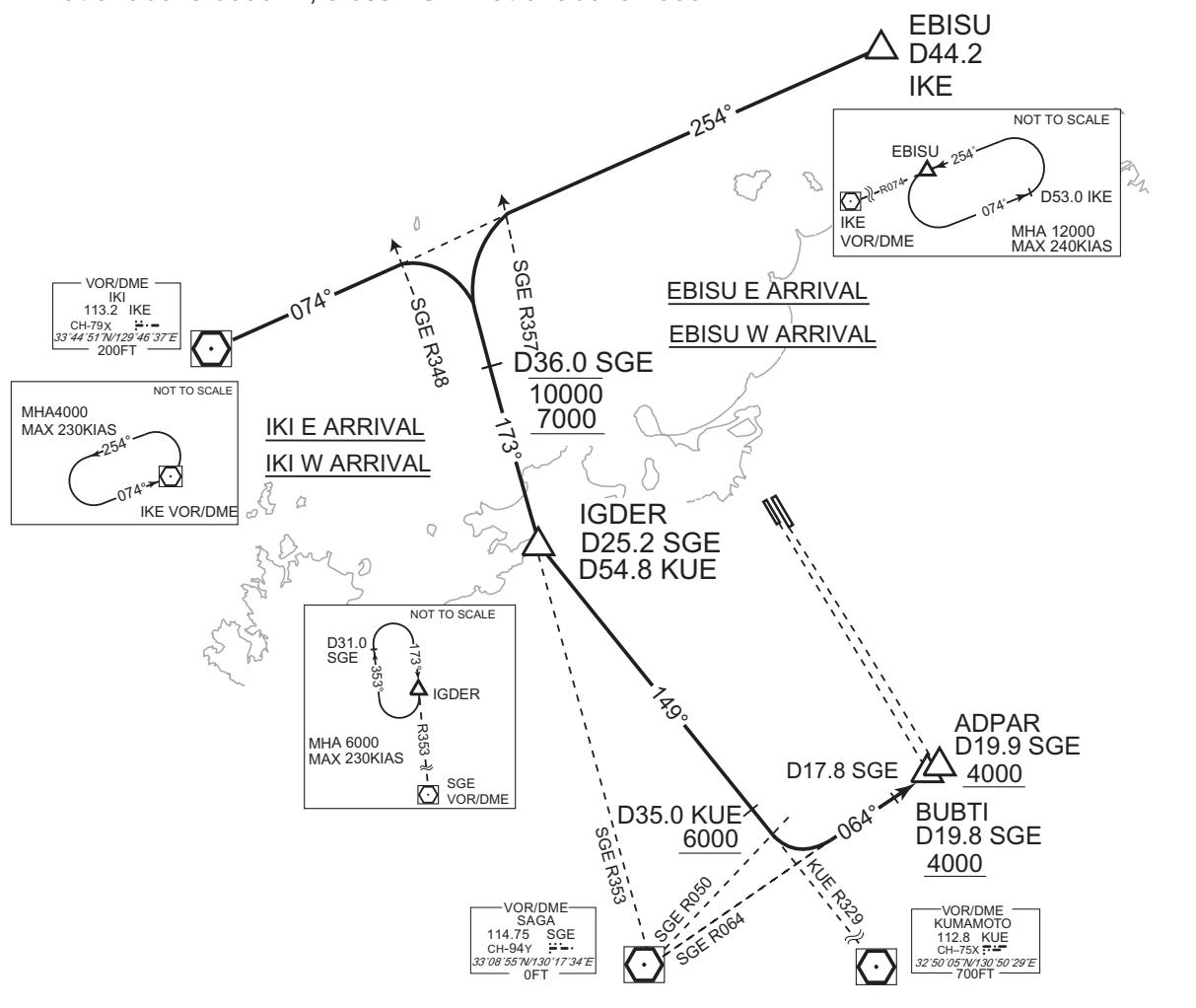
From over EBISU, proceed via IKE R074 to intercept and proceed via SGE R353 to IGDER, via KUE R329, to intercept and proceed via SGE R064 to BUBTI.
 Cross SGE R353/36.0DME between 7000FT and 10000FT, cross KUE R329/35.0DME at or above 6000FT, cross BUBTI at or above 4000FT.

IKI E ARRIVAL

From over IKE VOR/DME, proceed via IKE R074 to intercept and proceed via SGE R353 to IGDER, via KUE R329, to intercept and proceed via SGE R064 to ADPAR.
 Cross SGE R353/36.0DME between 7000FT and 10000FT, cross KUE R329/35.0DME at or above 6000FT, cross ADPAR at or above 4000FT.

IKI W ARRIVAL

From over IKE VOR/DME, proceed via IKE R074 to intercept and proceed via SGE R353 to IGDER, via KUE R329, to intercept and proceed via SGE R064 to BUBTI.
 Cross SGE R353/36.0DME between 7000FT and 10000FT, cross KUE R329/35.0DME at or above 6000FT, cross BUBTI at or above 4000FT.



CHANGE : New PROC.

STANDARD ARRIVAL CHART-INSTRUMENT

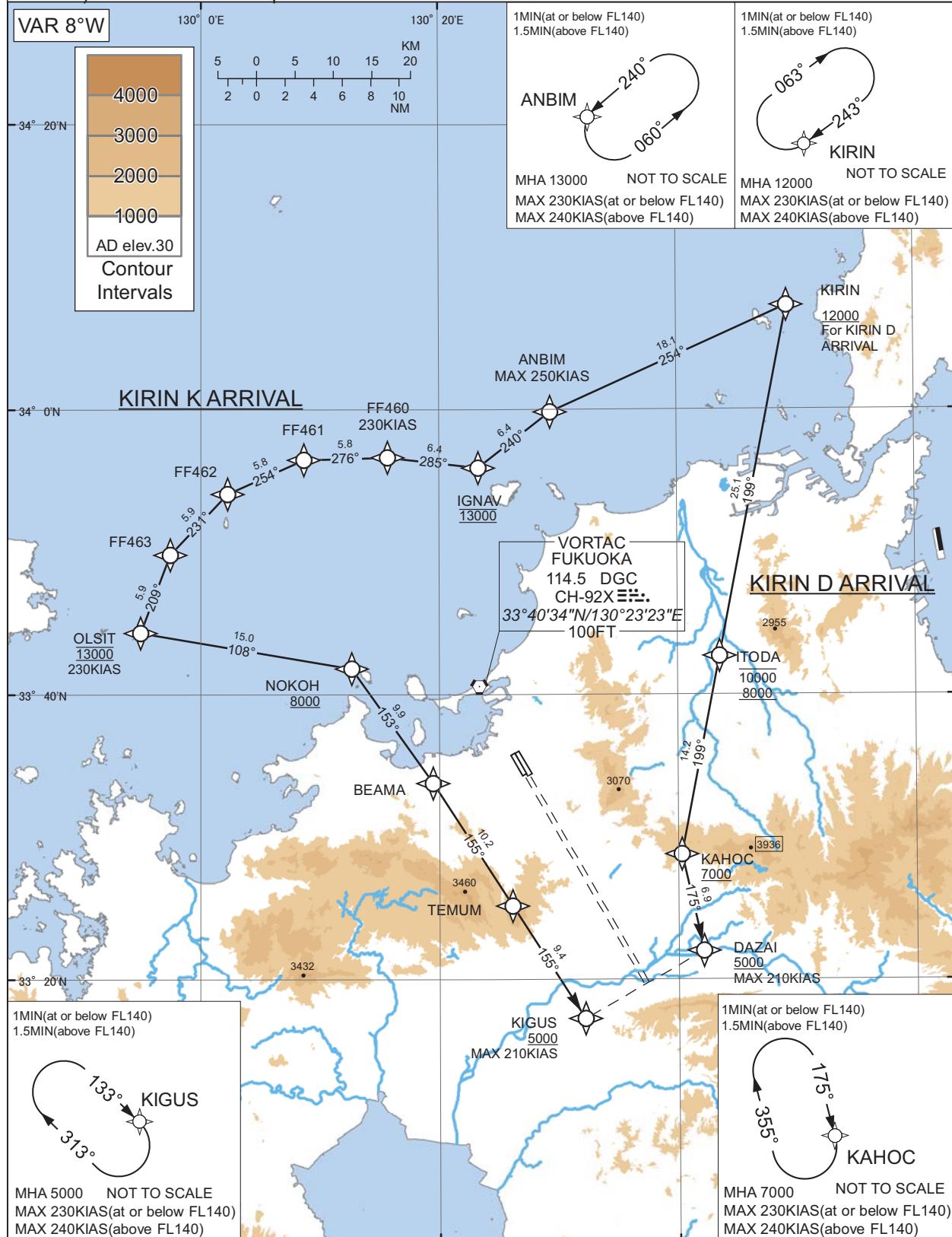
RJFF / FUKUOKA

RNAV STAR RWY34R/34L

KIRIN K ARRIVAL / KIRIN D ARRIVAL

RNAV1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.



STANDARD ARRIVAL CHART-INSTRUMENT

RJFF / FUKUOKA

RNAV STAR RWY34R/34L

KIRIN K ARRIVAL

From KIRIN, to ANBIM, to IGNAV at 13000FT, to FF460, to FF461, to FF462, to FF463, to OLSIT at 13000FT, to NOKOH at or above 8000FT, to BEAMA, to TEMUM, to KIGUS at or above 5000FT.

| | |
|-----------------------|---|
| Critical DME | - |
| DME GAP | - |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

| 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 | KIRIN | - | - | -8.0 | - | - | - | - | - | RNAV1 |
| 002 | TF | ANBIM | - | 254 (245.8) | -8.0 | 18.1 | - | - | -250 | - | RNAV1 |
| 003 | TF | IGNAV | - | 240 (232.0) | -8.0 | 6.4 | - | 13000 | - | - | RNAV1 |
| 004 | TF | FF460 | - | 285 (276.7) | -8.0 | 6.4 | - | - | 230 | - | RNAV1 |
| 005 | TF | FF461 | - | 276 (268.4) | -8.0 | 5.8 | - | - | - | - | RNAV1 |
| 006 | TF | FF462 | - | 254 (245.8) | -8.0 | 5.8 | - | - | - | - | RNAV1 |
| 007 | TF | FF463 | - | 231 (223.2) | -8.0 | 5.9 | - | - | - | - | RNAV1 |
| 008 | TF | OLSLIT | - | 209 (200.7) | -8.0 | 5.9 | - | 13000 | 230 | - | RNAV1 |
| 009 | TF | NOKOH | - | 108 (099.5) | -8.0 | 15.0 | - | +8000 | - | - | RNAV1 |
| 010 | TF | BEAMA | - | 153 (144.8) | -8.0 | 9.9 | - | - | - | - | RNAV1 |
| 011 | TF | TEMUM | - | 155 (147.2) | -8.0 | 10.2 | - | - | - | - | RNAV1 |
| 012 | TF | KIGUS | - | 155 (147.3) | -8.0 | 9.4 | - | +5000 | -210 | - | RNAV1 |

| 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 | KIRIN | 243 (235.1) | -8.0 | 1.0 (-14000) 1.5 (+14001) | R | 12000 | - | -230 (-14000) -240 (+14001) | RNAV1 |
| Hold | ANBIM | 240 (232.1) | -8.0 | 1.0 (-14000) 1.5 (+14001) | L | 13000 | - | -230 (-14000) -240 (+14001) | RNAV1 |
| Hold | KIGUS | 133 (125.2) | -8.0 | 1.0 (-14000) 1.5 (+14001) | R | 5000 | - | -230 (-14000) -240 (+14001) | RNAV1 |

CHANGE : New PROC.

STANDARD ARRIVAL CHART-INSTRUMENT

RJFF / FUKUOKA

RNAV STAR RWY34R/34L

KIRIN D ARRIVAL

From KIRIN at or above 12000FT, to ITODA between 10000FT and 8000FT, to KAHOC at or above 7000FT, to DAZAI at or above 5000FT.

| | |
|-----------------------|---|
| Critical DME | - |
| DME GAP | - |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAlDs for RNAV1 |

| 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 | KIRIN | - | - | -8.0 | - | - | +12000 | - | - | RNAV1 |
| 002 | TF | ITODA | - | 199 (191.0) | -8.0 | 25.1 | - | -10000 +8000 | - | - | RNAV1 |
| 003 | TF | KAHOC | - | 199 (191.0) | -8.0 | 14.2 | - | +7000 | - | - | RNAV1 |
| 004 | TF | DAZAI | - | 175 (167.3) | -8.0 | 6.9 | - | +5000 | -210 | - | RNAV1 |

| 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 | KIRIN | 243 (235.1) | -8.0 | 1.0 (-14000) 1.5 (+14001) | R | 12000 | - | -230 (-14000) -240 (+14001) | RNAV1 |
| Hold | KAHOC | 175 (167.3) | -8.0 | 1.0 (-14000) 1.5 (+14001) | R | 7000 | - | -230 (-14000) -240 (+14001) | RNAV1 |

Waypoint Coordinates

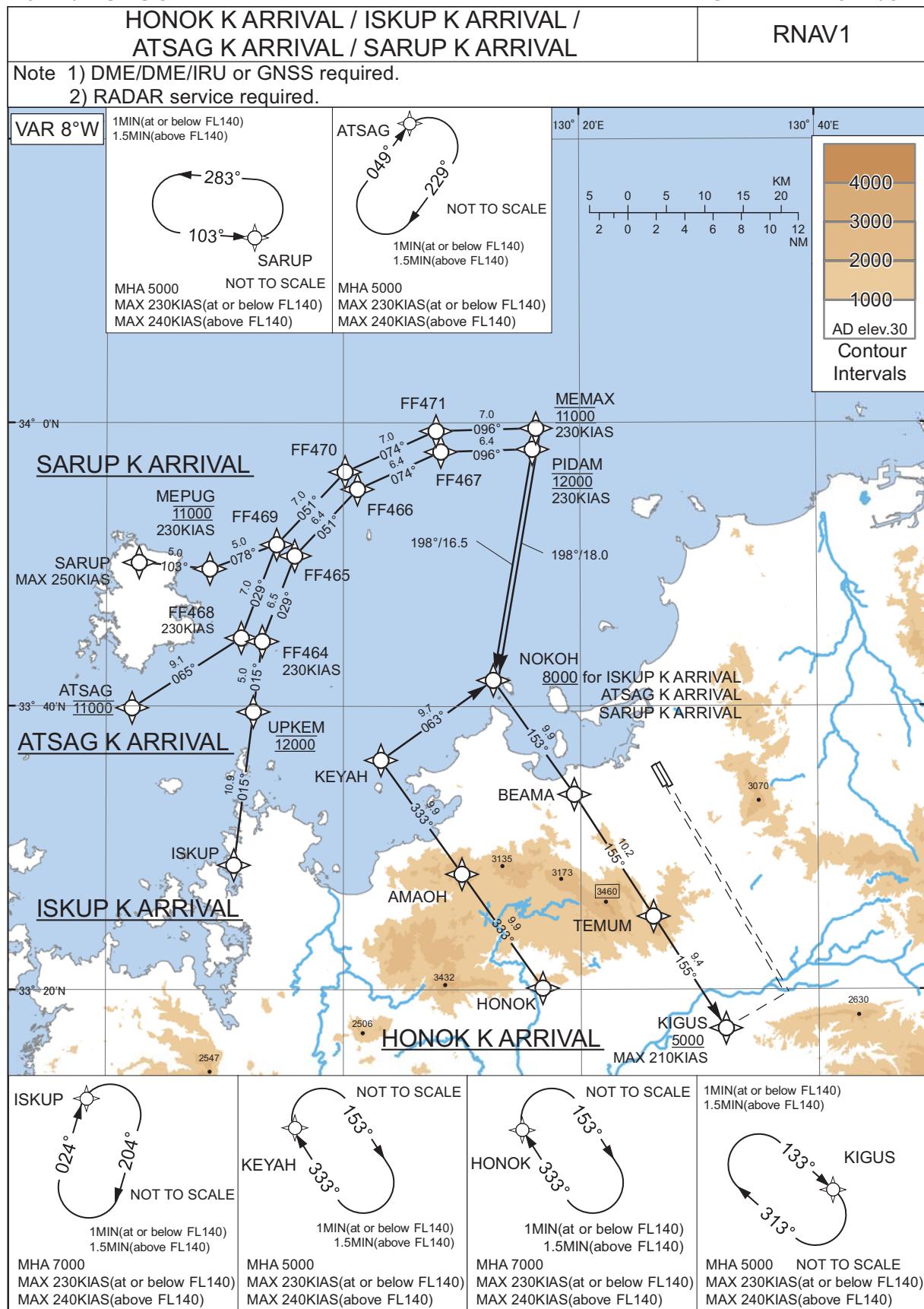
| Waypoint Identifier | Coordinates |
|---------------------|------------------------|
| KIRIN | 340717.9N / 1304919.3E |
| ANBIM | 335949.6N / 1302922.5E |
| IGNAV | 335554.0N / 1302319.1E |
| FF460 | 335638.5N / 1301541.9E |
| FF461 | 335628.8N / 1300839.8E |
| FF462 | 335404.9N / 1300214.7E |
| FF463 | 334948.8N / 1295725.3E |
| OLSIT | 334419.7N / 1295455.9E |
| NOKOH | 334149.5N / 1301240.1E |
| BEAMA | 333346.7N / 1301928.8E |
| TEMUM | 332509.9N / 1302607.4E |
| KIGUS | 331715.7N / 1303211.9E |
| ITODA | 334242.2N / 1304333.1E |
| KAHOC | 332847.4N / 1304018.8E |
| DAZAI | 332200.9N / 1304208.1E |

CHANGE : New PROC.

STANDARD ARRIVAL CHART-INSTRUMENT

RJFF / FUKUOKA

RNAV STAR RWY34R/34L



STANDARD ARRIVAL CHART-INSTRUMENT

RJFF / FUKUOKA

RNAV STAR RWY34R/34L

HONOK K ARRIVAL

From HONOK, to AMAOH, to KEYAH, to NOKOH, to BEAMA, to TEMUM, to KIGUS at or above 5000FT.

| | |
|-----------------------|---|
| Critical DME | - |
| DME GAP | - |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

| 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 | HONOK | - | - | -8.0 | - | - | - | - | - | RNAV1 |
| 002 | TF | AMAOH | - | 333 (324.8) | -8.0 | 9.9 | - | - | - | - | RNAV1 |
| 003 | TF | KEYAH | - | 333 (324.8) | -8.0 | 9.9 | - | - | - | - | RNAV1 |
| 004 | TF | NOKOH | - | 063 (054.5) | -8.0 | 9.7 | - | - | - | - | RNAV1 |
| 005 | TF | BEAMA | - | 153 (144.8) | -8.0 | 9.9 | - | - | - | - | RNAV1 |
| 006 | TF | TEMUM | - | 155 (147.2) | -8.0 | 10.2 | - | - | - | - | RNAV1 |
| 007 | TF | KIGUS | - | 155 (147.3) | -8.0 | 9.4 | - | +5000 | -210 | - | RNAV1 |

| 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 | HONOK | 333 (324.9) | -8.0 | 1.0 (-14000) 1.5 (+14001) | R | 7000 | - | -230 (-14000) -240 (+14001) | RNAV1 |
| Hold | KEYAH | 333 (324.8) | -8.0 | 1.0 (-14000) 1.5 (+14001) | R | 5000 | - | -230 (-14000) -240 (+14001) | RNAV1 |
| Hold | KIGUS | 133 (125.2) | -8.0 | 1.0 (-14000) 1.5 (+14001) | R | 5000 | - | -230 (-14000) -240 (+14001) | RNAV1 |

CHANGE : New PROC.

STANDARD ARRIVAL CHART-INSTRUMENT

RJFF / FUKUOKA

RNAV STAR RWY34R/34L

ISKUP K ARRIVAL

From ISKUP, to UPKEM at 12000FT, to FF464, to FF465, to FF466, to FF467, to PIDAM at 12000FT, to NOKOH at or above 8000FT, to BEAMA, to TEMUM, to KIGUS at or above 5000FT.

| | |
|-----------------------|---|
| Critical DME | - |
| DME GAP | - |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

| 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 | ISKUP | - | - | -8.0 | - | - | - | - | - | RNAV1 |
| 002 | TF | UPKEM | - | 015 (007.1) | -8.0 | 10.9 | - | 12000 | - | - | RNAV1 |
| 003 | TF | FF464 | - | 015 (007.2) | -8.0 | 5.0 | - | - | 230 | - | RNAV1 |
| 004 | TF | FF465 | - | 029 (020.7) | -8.0 | 6.5 | - | - | - | - | RNAV1 |
| 005 | TF | FF466 | - | 051 (043.1) | -8.0 | 6.4 | - | - | - | - | RNAV1 |
| 006 | TF | FF467 | - | 074 (065.7) | -8.0 | 6.4 | - | - | - | - | RNAV1 |
| 007 | TF | PIDAM | - | 096 (088.4) | -8.0 | 6.4 | - | 12000 | 230 | - | RNAV1 |
| 008 | TF | NOKOH | - | 198 (189.7) | -8.0 | 16.5 | - | +8000 | - | - | RNAV1 |
| 009 | TF | BEAMA | - | 153 (144.8) | -8.0 | 9.9 | - | - | - | - | RNAV1 |
| 010 | TF | TEMUM | - | 155 (147.2) | -8.0 | 10.2 | - | - | - | - | RNAV1 |
| 011 | TF | KIGUS | - | 155 (147.3) | -8.0 | 9.4 | - | +5000 | -210 | - | RNAV1 |

| 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 | ISKUP | 024 (016.5) | -8.0 | 1.0 (-14000) 1.5 (+14001) | R | 7000 | - | -230 (-14000) -240 (+14001) | RNAV1 |
| Hold | KIGUS | 133 (125.2) | -8.0 | 1.0 (-14000) 1.5 (+14001) | R | 5000 | - | -230 (-14000) -240 (+14001) | RNAV1 |

CHANGE : New PROC.

STANDARD ARRIVAL CHART-INSTRUMENT

RJFF / FUKUOKA

RNAV STAR RWY34R/34L

ATSAG K ARRIVAL

From ATSAG at 11000FT, to FF468, to FF469, to FF470, to FF471, to MEMAX at 11000FT, to NOKOH at or above 8000FT, to BEAMA, to TEMUM, to KIGUS at or above 5000FT.

| | |
|-----------------------|---|
| Critical DME | - |
| DME GAP | - |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

| 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 | ATSAG | - | - | -8.0 | - | - | 11000 | - | - | RNAV1 |
| 002 | TF | FF468 | - | 065 (057.2) | -8.0 | 9.1 | - | - | 230 | - | RNAV1 |
| 003 | TF | FF469 | - | 029 (020.6) | -8.0 | 7.0 | - | - | - | - | RNAV1 |
| 004 | TF | FF470 | - | 051 (043.1) | -8.0 | 7.0 | - | - | - | - | RNAV1 |
| 005 | TF | FF471 | - | 074 (065.7) | -8.0 | 7.0 | - | - | - | - | RNAV1 |
| 006 | TF | MEMAX | - | 096 (088.4) | -8.0 | 7.0 | - | 11000 | 230 | - | RNAV1 |
| 007 | TF | NOKOH | - | 198 (189.7) | -8.0 | 18.0 | - | +8000 | - | - | RNAV1 |
| 008 | TF | BEAMA | - | 153 (144.8) | -8.0 | 9.9 | - | - | - | - | RNAV1 |
| 009 | TF | TEMUM | - | 155 (147.2) | -8.0 | 10.2 | - | - | - | - | RNAV1 |
| 010 | TF | KIGUS | - | 155 (147.3) | -8.0 | 9.4 | - | +5000 | -210 | - | RNAV1 |

| 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 | ATSAG | 049 (040.9) | -8.0 | 1.0 (-14000) 1.5 (+14001) | R | 5000 | - | -230 (-14000) -240 (+14001) | RNAV1 |
| Hold | KIGUS | 133 (125.2) | -8.0 | 1.0 (-14000) 1.5 (+14001) | R | 5000 | - | -230 (-14000) -240 (+14001) | RNAV1 |

CHANGE : New PROC

STANDARD ARRIVAL CHART-INSTRUMENT

RJFF / FUKUOKA

RNAV STAR RWY34R/34L

SARUP K ARRIVAL

From SARUP, to MEPUG at 11000FT, to FF469, to FF470, to FF471, MEMAX at 11000FT, to NOKOH at or above 8000FT, to BEAMA, to TEMUM, to KIGUS at or above 5000FT.

| | |
|-----------------------|---|
| Critical DME | - |
| DME GAP | - |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

| 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 | SARUP | - | - | -8.0 | - | - | - | -250 | - | RNAV1 |
| 002 | TF | MEPUG | - | 103 (095.1) | -8.0 | 5.0 | - | 11000 | 230 | - | RNAV1 |
| 003 | TF | FF469 | - | 078 (069.9) | -8.0 | 5.0 | - | - | - | - | RNAV1 |
| 004 | TF | FF470 | - | 051 (043.1) | -8.0 | 7.0 | - | - | - | - | RNAV1 |
| 005 | TF | FF471 | - | 074 (065.7) | -8.0 | 7.0 | - | - | - | - | RNAV1 |
| 006 | TF | MEMAX | - | 096 (088.4) | -8.0 | 7.0 | - | 11000 | 230 | - | RNAV1 |
| 007 | TF | NOKOH | - | 198 (189.7) | -8.0 | 18.0 | - | +8000 | - | - | RNAV1 |
| 008 | TF | BEAMA | - | 153 (144.8) | -8.0 | 9.9 | - | - | - | - | RNAV1 |
| 009 | TF | TEMUM | - | 155 (147.2) | -8.0 | 10.2 | - | - | - | - | RNAV1 |
| 010 | TF | KIGUS | - | 155 (147.3) | -8.0 | 9.4 | - | +5000 | -210 | - | RNAV1 |

| 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 | SARUP | 103 (094.9) | -8.0 | 1.0 (-14000) 1.5 (+14001) | L | 5000 | - | -230 (-14000) -240 (+14001) | RNAV1 |
| Hold | KIGUS | 133 (125.2) | -8.0 | 1.0 (-14000) 1.5 (+14001) | R | 5000 | - | -230 (-14000) -240 (+14001) | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| HONOK | 332006.3N / 1301647.8E | FF468 | 334449.4N / 1295123.0E |
| AMAOH | 332809.0N / 1300959.9E | SARUP | 335008.4N / 1294244.7E |
| KEYAH | 333611.4N / 1300310.7E | MEPUG | 334941.5N / 1294843.5E |
| ISKUP | 332847.3N / 1295046.6E | FF469 | 335124.4N / 1295422.1E |
| UPKEM | 333936.3N / 1295224.4E | FF470 | 335631.8N / 1300009.2E |
| FF464 | 334434.6N / 1295309.4E | FF471 | 335924.6N / 1300751.6E |
| FF465 | 335036.6N / 1295553.7E | MEMAX | 335936.3N / 1301618.4E |
| FF466 | 335518.3N / 1300112.0E | NOKOH | 334149.5N / 1301240.1E |
| FF467 | 335756.7N / 1300815.7E | BEAMA | 333346.7N / 1301928.8E |
| PIDAM | 335807.4N / 1301600.1E | TEMUM | 332509.9N / 1302607.4E |
| ATSAG | 333953.2N / 1294210.5E | KIGUS | 331715.7N / 1303211.9E |

CHANGE : New PROC.

STANDARD ARRIVAL CHART-INSTRUMENT

RJFF / FUKUOKA

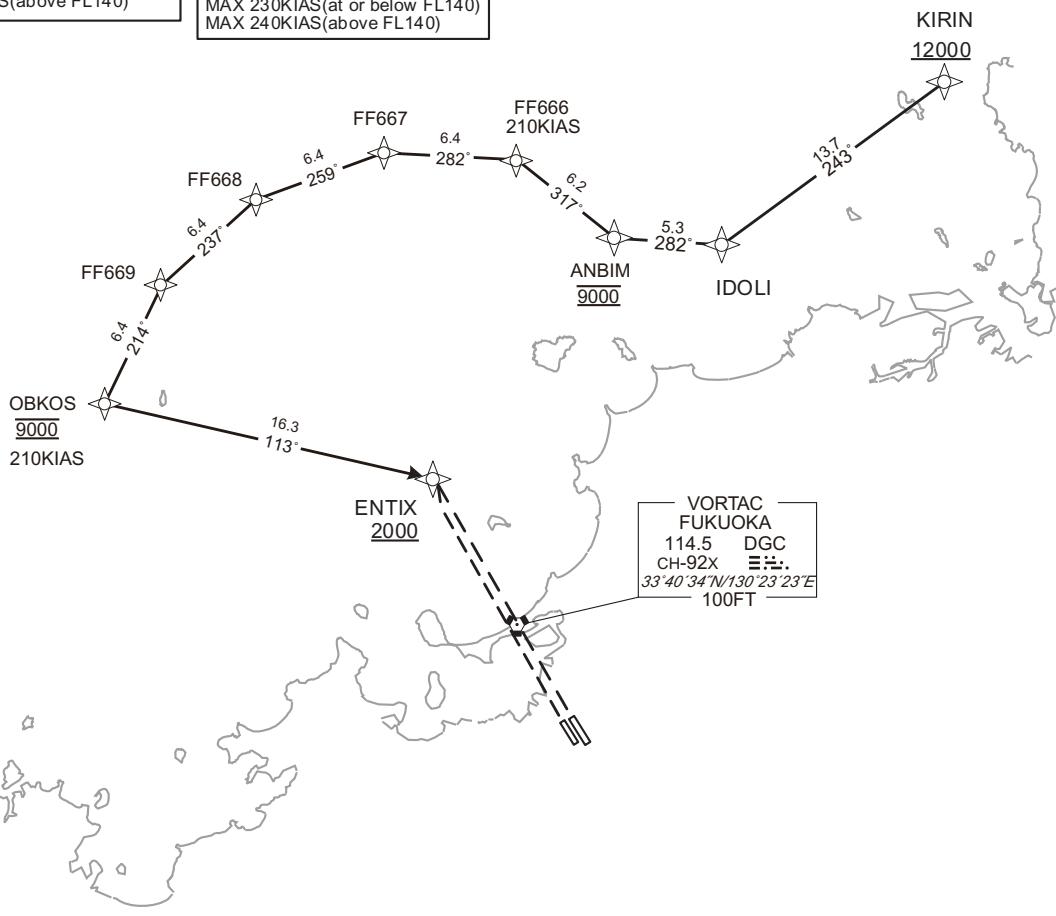
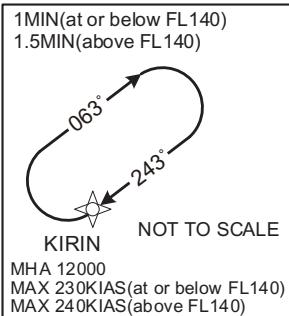
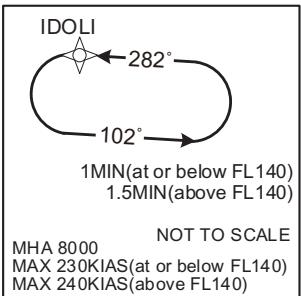
RNAV STAR RWY16L/16R

KIRIN E ARRIVAL

RNAV 1

- Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

VAR 8° W



CHANGE : PROC renamed.

STANDARD ARRIVAL CHART-INSTRUMENT

RJFF / FUKUOKA

RNAV STAR RWY16L/16R

KIRIN E ARRIVAL

From KIRIN at or above 12000FT, to IDOLI, to ANBIM at 9000FT, to FF666, to FF667, to FF668, to FF669, to O BKOS at 9000FT, to ENTIX at or above 2000FT.

| | |
|-----------------------|---|
| Critical DME | - |
| DME GAP | - |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

| 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 | KIRIN | - | - | -8.0 | - | - | +12000 | - | - | RNAV1 |
| 002 | TF | IDOLI | - | 243 (235.0) | -8.0 | 13.7 | - | - | - | - | RNAV1 |
| 003 | TF | ANBIM | - | 282 (274.2) | -8.0 | 5.3 | - | 9000 | - | - | RNAV1 |
| 004 | TF | FF666 | - | 317 (308.8) | -8.0 | 6.2 | - | - | 210 | - | RNAV1 |
| 005 | TF | FF667 | - | 282 (274.1) | -8.0 | 6.4 | - | - | - | - | RNAV1 |
| 006 | TF | FF668 | - | 259 (251.4) | -8.0 | 6.4 | - | - | - | - | RNAV1 |
| 007 | TF | FF669 | - | 237 (228.8) | -8.0 | 6.4 | - | - | - | - | RNAV1 |
| 008 | TF | O BKOS | - | 214 (206.3) | -8.0 | 6.4 | - | 9000 | 210 | - | RNAV1 |
| 009 | TF | ENTIX | - | 113 (105.2) | -8.0 | 16.3 | - | +2000 | - | - | RNAV1 |

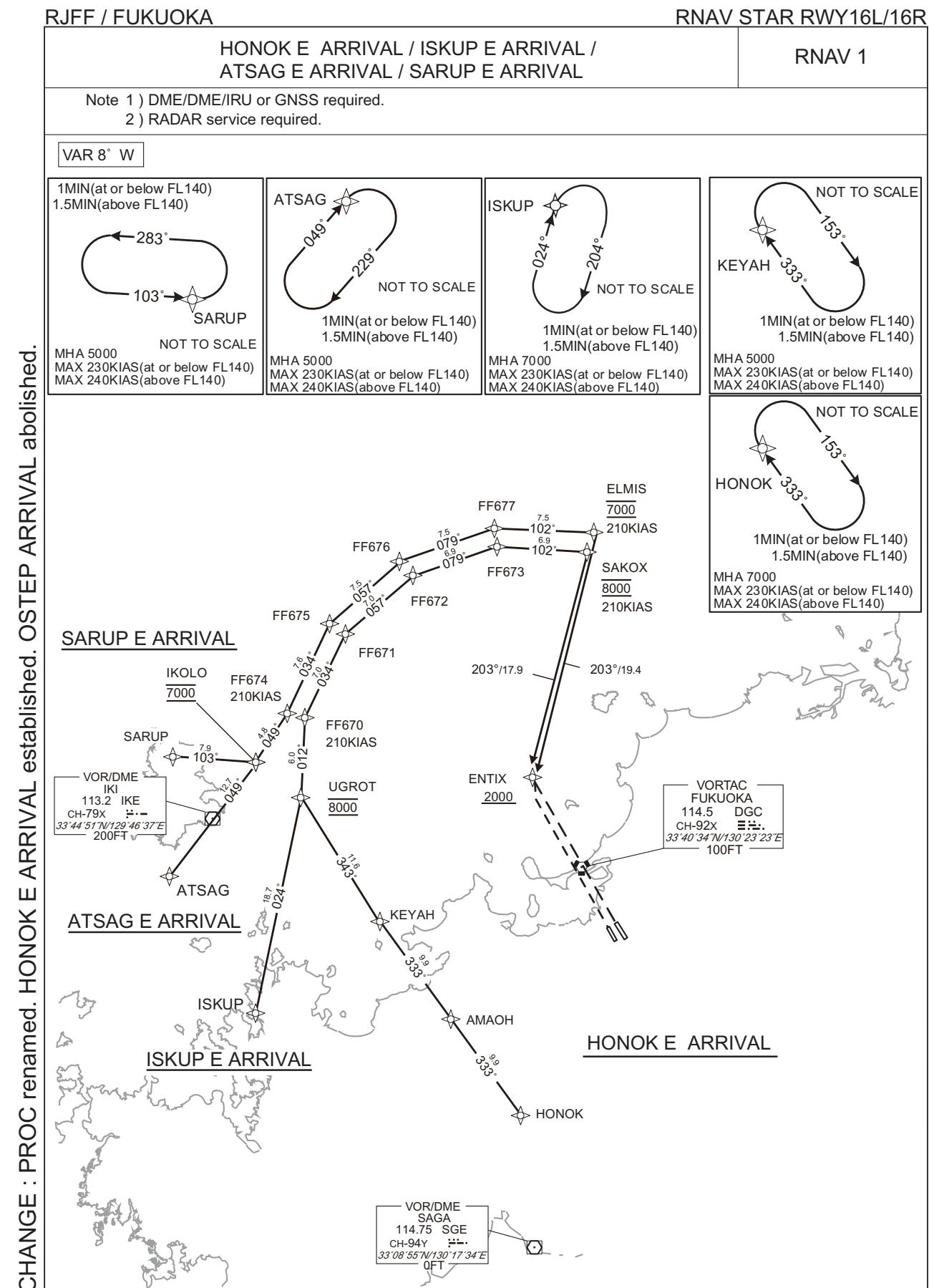
| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | KIRIN | 243 (235.1) | -8.0 | 1.0(-14000) 1.5(+14001) | R | 12000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | IDOLI | 282 (274.3) | -8.0 | 1.0(-14000) 1.5(+14001) | L | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates |
|---------------------|------------------------|
| KIRIN | 340717.9N / 1304919.3E |
| IDOLI | 335926.2N / 1303546.7E |
| ANBIM | 335949.6N / 1302922.5E |
| FF666 | 340344.2N / 1302330.1E |
| FF667 | 340411.4N / 1301551.1E |
| FF668 | 340209.8N / 1300834.7E |
| FF669 | 335758.2N / 1300248.0E |
| O BKOS | 335215.0N / 1295923.7E |
| ENTIX | 334757.5N / 1301818.9E |

CHANGE : PROC renamed.

STANDARD ARRIVAL CHART-INSTRUMENT



STANDARD ARRIVAL CHART-INSTRUMENT

RJFF / FUKUOKA

RNAV STAR RWY16L/16R

HONOK E ARRIVAL

From HONOK, to AMAOH, to KEYAH, to UGROT at 8000FT, to FF670, to FF671, to FF672, to FF673, to SAKOX at 8000FT, to ENTIK at or above 2000FT.

| | |
|-----------------------|---|
| Critical DME | - |
| DME GAP | - |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

| 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 | HONOK | - | - | -8.0 | - | - | - | - | - | RNAV1 |
| 002 | TF | AMAOH | - | 333 (324.8) | -8.0 | 9.9 | - | - | - | - | RNAV1 |
| 003 | TF | KEYAH | - | 333 (324.8) | -8.0 | 9.9 | - | - | - | - | RNAV1 |
| 004 | TF | UGROT | - | 343 (334.6) | -8.0 | 11.6 | - | 8000 | - | - | RNAV1 |
| 005 | TF | FF670 | - | 012 (003.8) | -8.0 | 6.0 | - | - | 210 | - | RNAV1 |
| 006 | TF | FF671 | - | 034 (026.3) | -8.0 | 7.0 | - | - | - | - | RNAV1 |
| 007 | TF | FF672 | - | 057 (048.8) | -8.0 | 7.0 | - | - | - | - | RNAV1 |
| 008 | TF | FF673 | - | 079 (071.4) | -8.0 | 6.9 | - | - | - | - | RNAV1 |
| 009 | TF | SAKOX | - | 102 (094.0) | -8.0 | 6.9 | - | 8000 | 210 | - | RNAV1 |
| 010 | TF | ENTIX | - | 203 (195.3) | -8.0 | 17.9 | - | +2000 | - | - | RNAV1 |

| 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 | HONOK | 333 (324.9) | -8.0 | 1.0(-14000) 1.5(+14001) | R | 7000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KEYAH | 333 (324.8) | -8.0 | 1.0(-14000) 1.5(+14001) | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : HONOK E ARRIVAL established. PRO course.

STANDARD ARRIVAL CHART-INSTRUMENT

RJFF / FUKUOKA

RNAV STAR RWY16L/16R

ISKUP E ARRIVAL

From ISKUP, to UGROT, at 8000FT, to FF670, to FF671, to FF672, to FF673,
to SAKOX, at 8000FT, to ENTIX at or above 2000FT.

| | |
|-----------------------|---|
| Critical DME | - |
| DME GAP | - |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

| 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 | ISKUP | - | - | -8.0 | - | - | - | - | - | RNAV1 |
| 002 | TF | UGROT | - | 024 (016.5) | -8.0 | 18.7 | - | 8000 | - | - | RNAV1 |
| 003 | TF | FF670 | - | 012 (003.8) | -8.0 | 6.0 | - | - | 210 | - | RNAV1 |
| 004 | TF | FF671 | - | 034 (026.3) | -8.0 | 7.0 | - | - | - | - | RNAV1 |
| 005 | TF | FF672 | - | 057 (048.8) | -8.0 | 7.0 | - | - | - | - | RNAV1 |
| 006 | TF | FF673 | - | 079 (071.4) | -8.0 | 6.9 | - | - | - | - | RNAV1 |
| 007 | TF | SAKOX | - | 102 (094.0) | -8.0 | 6.9 | - | 8000 | 210 | - | RNAV1 |
| 008 | TF | ENTIX | - | 203 (195.3) | -8.0 | 17.9 | - | +2000 | - | - | RNAV1 |

| 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 | ISKUP | 024 (016.5) | -8.0 | 1.0(-14000) 1.5(+14001) | R | 7000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC renamed.

STANDARD ARRIVAL CHART-INSTRUMENT

RJFF / FUKUOKA

RNAV STAR RWY16L/16R

ATSAG E ARRIVAL

From ATSAG, to IKOLO, at 7000FT, to FF674, to FF675, to FF676, to FF677, to ELMIS at 7000FT, to ENTIX at or above 2000FT.

| | |
|-----------------------|---|
| Critical DME | - |
| DME GAP | - |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

| 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 | ATSAG | - | - | -8.0 | - | - | - | - | - | RNAV1 |
| 002 | TF | IKOLO | - | 049 (040.9) | -8.0 | 12.7 | - | 7000 | - | - | RNAV1 |
| 003 | TF | FF674 | - | 049 (041.0) | -8.0 | 4.8 | - | - | 210 | - | RNAV1 |
| 004 | TF | FF675 | - | 034 (026.2) | -8.0 | 7.6 | - | - | - | - | RNAV1 |
| 005 | TF | FF676 | - | 057 (048.7) | -8.0 | 7.5 | - | - | - | - | RNAV1 |
| 006 | TF | FF677 | - | 079 (071.4) | -8.0 | 7.5 | - | - | - | - | RNAV1 |
| 007 | TF | ELMIS | - | 102 (094.0) | -8.0 | 7.5 | - | 7000 | 210 | - | RNAV1 |
| 008 | TF | ENTIX | - | 203 (195.3) | -8.0 | 19.4 | - | +2000 | - | - | RNAV1 |

| 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 | ATSAG | 049 (040.9) | -8.0 | 1.0(-14000) 1.5(+14001) | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : PROC renamed.

STANDARD ARRIVAL CHART-INSTRUMENT

RJFF / FUKUOKA

RNAV STAR RWY16L/16R

SARUP E ARRIVAL

From SARUP, to IKOLO at 7000FT, to FF674, to FF675, to FF676, to FF677,
to ELMIS at 7000FT, to ENTIX at or above 2000FT.

| | |
|-----------------------|---|
| Critical DME | - |
| DME GAP | - |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

| 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 | SARUP | - | - | -8.0 | - | - | - | - | - | RNAV1 |
| 002 | TF | IKOLO | - | 103 (095.0) | -8.0 | 7.9 | - | 7000 | - | - | RNAV1 |
| 003 | TF | FF674 | - | 049 (041.0) | -8.0 | 4.8 | - | - | 210 | - | RNAV1 |
| 004 | TF | FF675 | - | 034 (026.2) | -8.0 | 7.6 | - | - | - | - | RNAV1 |
| 005 | TF | FF676 | - | 057 (048.7) | -8.0 | 7.5 | - | - | - | - | RNAV1 |
| 006 | TF | FF677 | - | 079 (071.4) | -8.0 | 7.5 | - | - | - | - | RNAV1 |
| 007 | TF | ELMIS | - | 102 (094.0) | -8.0 | 7.5 | - | 7000 | 210 | - | RNAV1 |
| 008 | TF | ENTIX | - | 203 (195.3) | -8.0 | 19.4 | - | +2000 | - | - | RNAV1 |

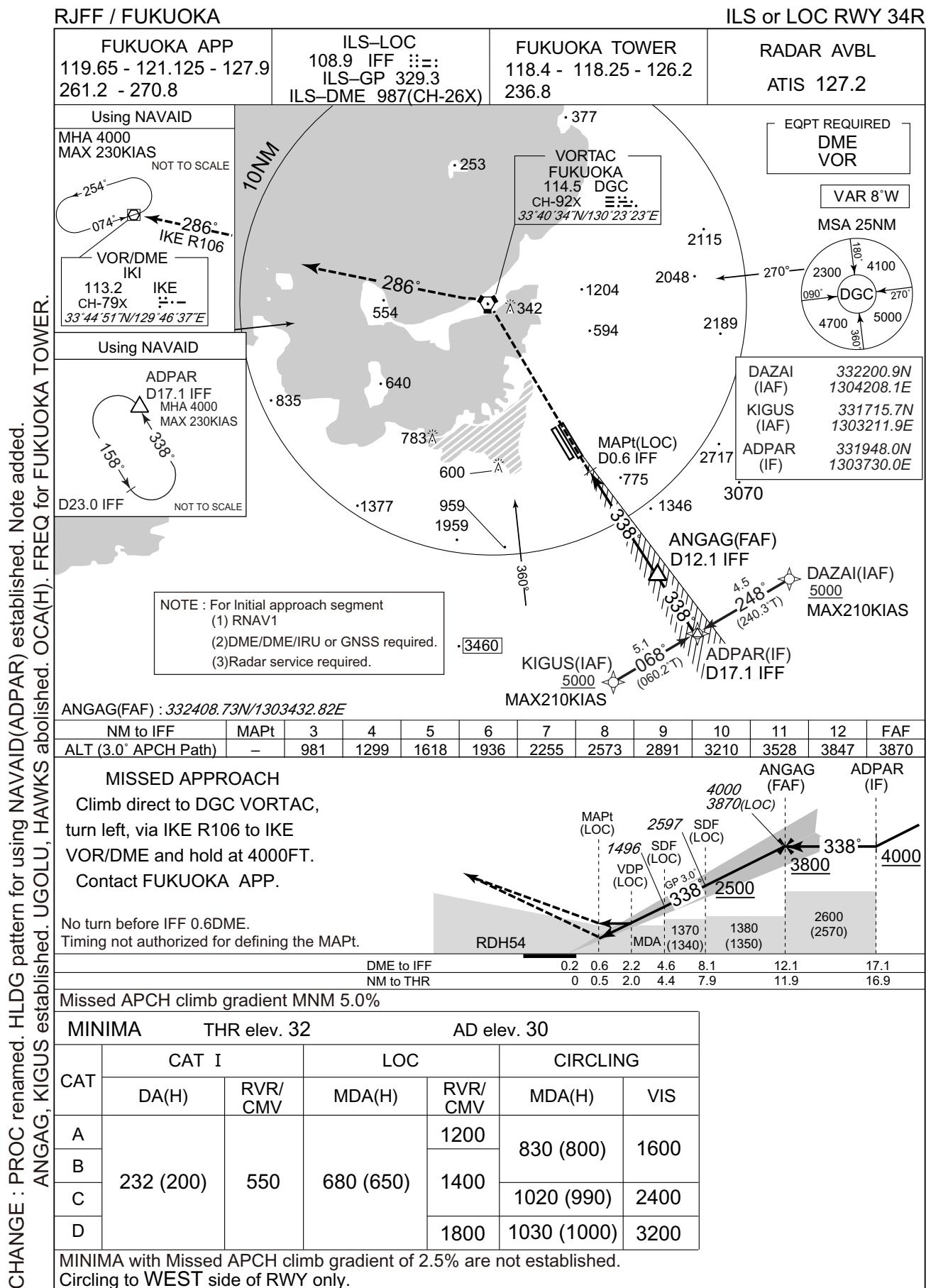
| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | SARUP | 103 (094.9) | -8.0 | 1.0(-14000) 1.5(+14001) | L | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

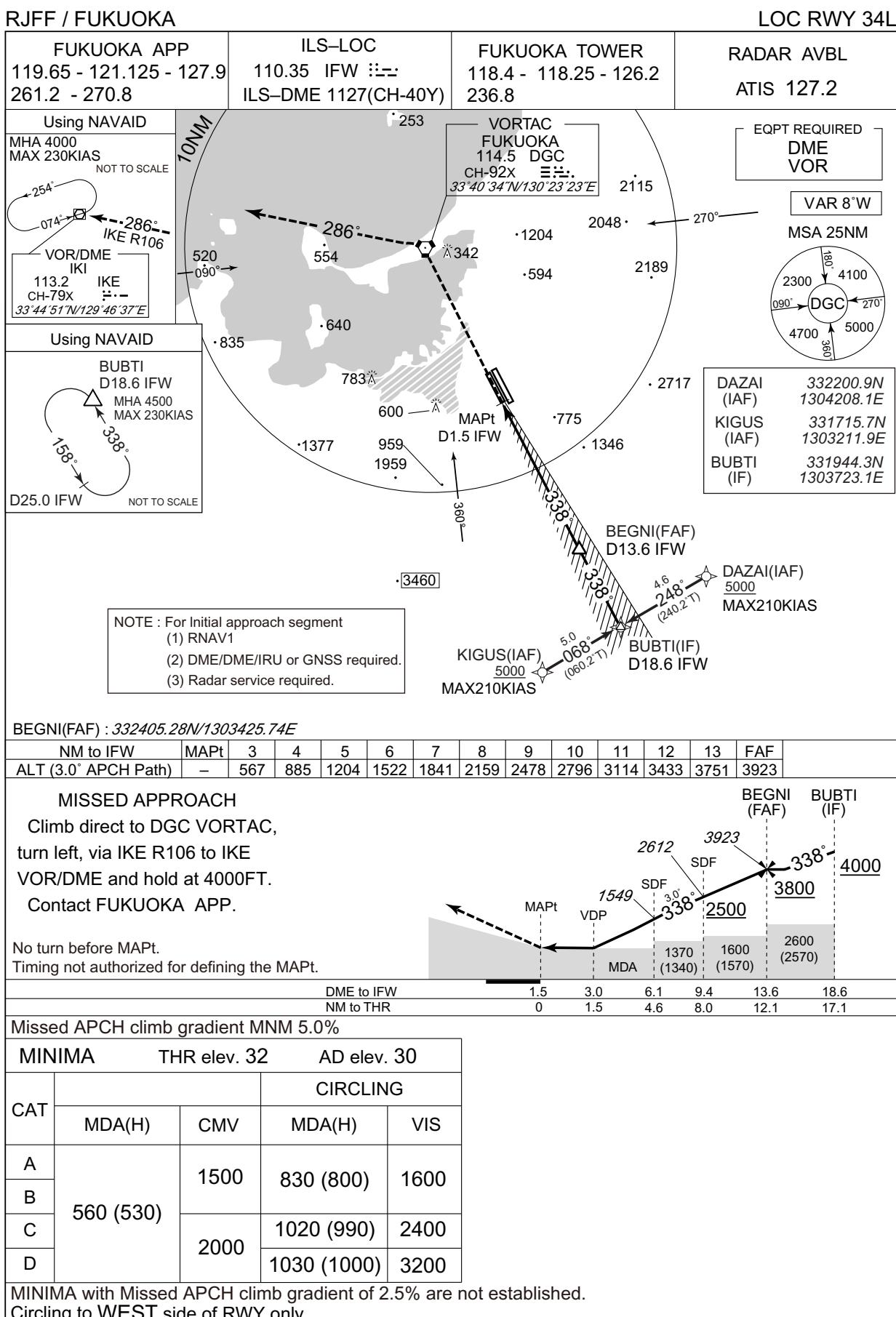
| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| HONOK | 332006.3N / 1301647.8E | SAKOX | 340511.2N / 1302358.8E |
| AMAOH | 332809.0N / 1300959.9E | ATSAG | 333953.2N / 1294210.5E |
| KEYAH | 333611.4N / 1300310.7E | SARUP | 335008.4N / 1294244.7E |
| ISKUP | 332847.3N / 1295046.6E | IKOLO | 334926.8N / 1295209.4E |
| UGROT | 334642.0N / 1295710.6E | FF674 | 335302.0N / 1295555.0E |
| FF670 | 335238.5N / 1295739.4E | FF675 | 335948.3N / 1295956.5E |
| FF671 | 335853.2N / 1300122.2E | FF676 | 340446.3N / 1300647.0E |
| FF672 | 340328.1N / 1300740.9E | FF677 | 340710.3N / 1301523.8E |
| FF673 | 340540.8N / 1301537.4E | ELMIS | 340638.1N / 1302427.5E |
| | | ENTIX | 334757.5N / 1301818.9E |

CHANGE : PROC renamed.

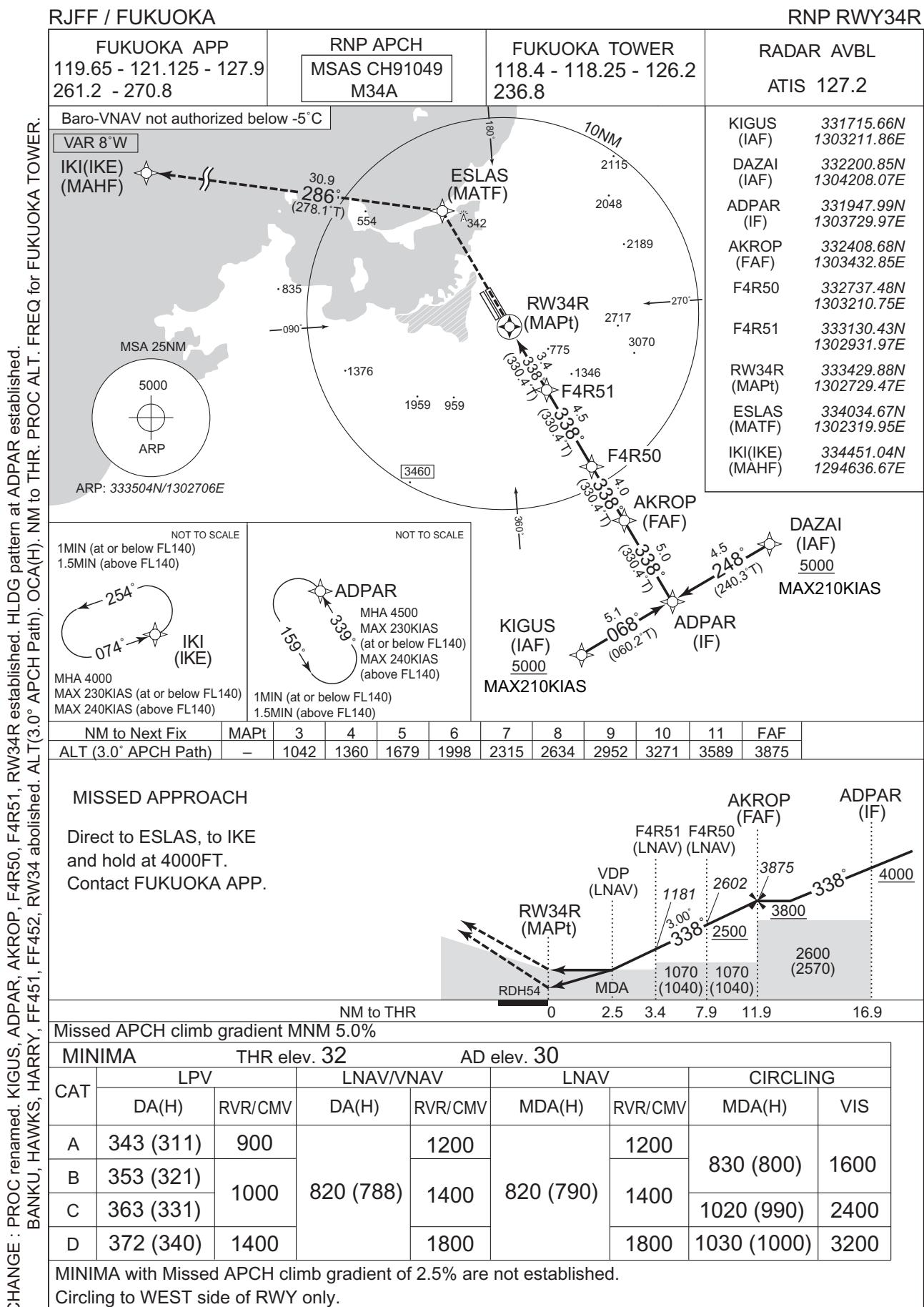
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJFF / FUKUOKA

RNP RWY34R

FAS DATA BLOCK

| | | | |
|----------------------------------|---------------|----------------------------|---------------|
| Operation type | 0 | LTP/FTP ellipsoidal height | +00424 |
| SBAS service provider identifier | 2 | FPAP latitude | 333548.8630N |
| Airport identifier | RJFF | FPAP longitude | 1302635.4830E |
| Runway | 341 | Threshold crossing height | 00016.5 |
| Approach performance designator | 0 | TCH units selector | 1 |
| Route indicator | | Glide path angle | 03.00 |
| Reference path data selector | 0 | Course width at threshold | 105.00 |
| Reference path ID | M34A | △ length offset | 0000 |
| LTP/FTP latitude | 333429.8705N | HAL | 40.0 |
| LTP/FTP longitude | 1302729.4540E | VAL | 50.0 |
| CRC remainder | 1C55BCEE | | |

Required additional data

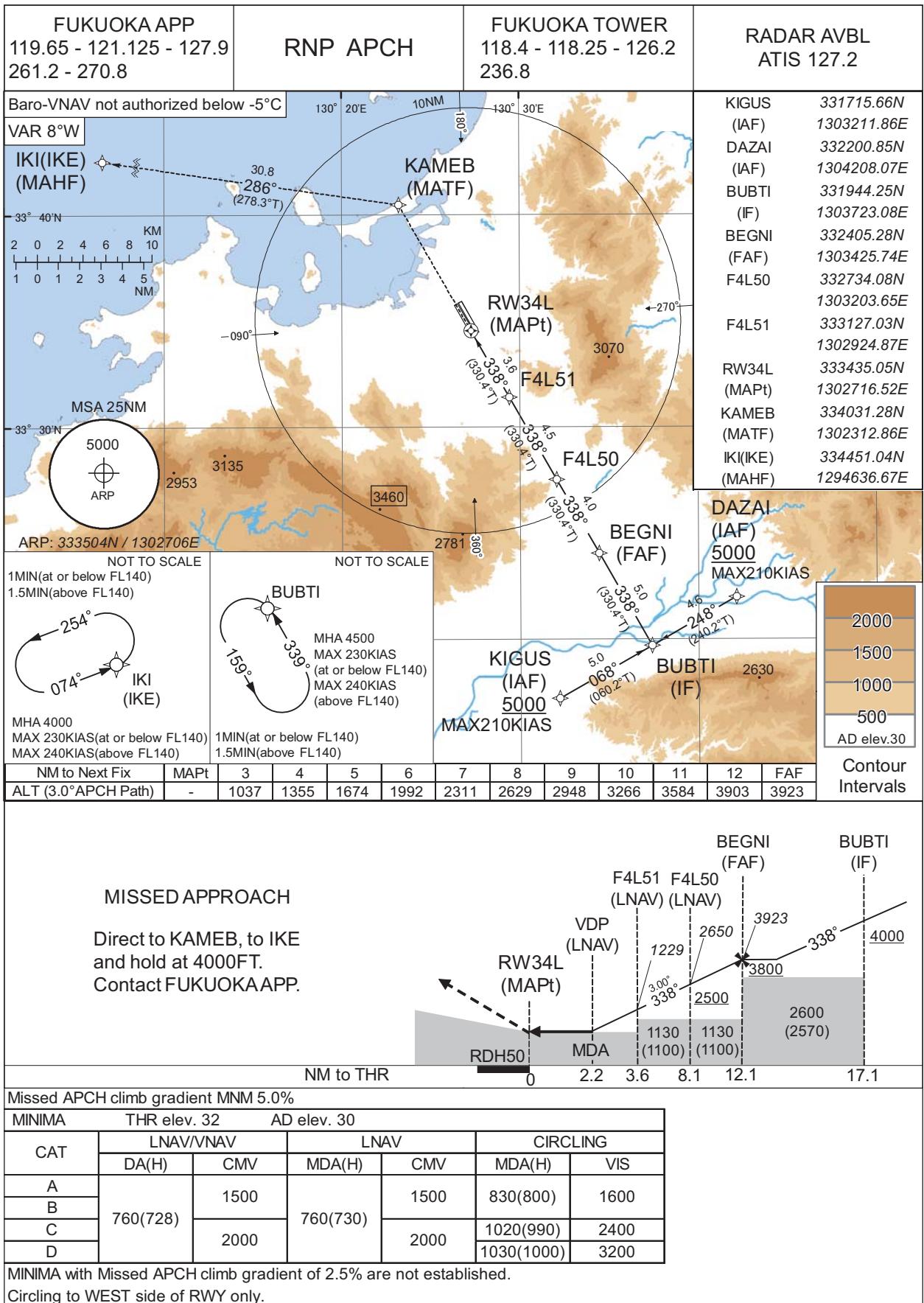
| | |
|----------------------------|-----|
| LTP/FTP orthometric height | 9.8 |
|----------------------------|-----|

CHANGE : Runway and CRC remainder of FAS DATA BLOCK.

INSTRUMENT APPROACH CHART

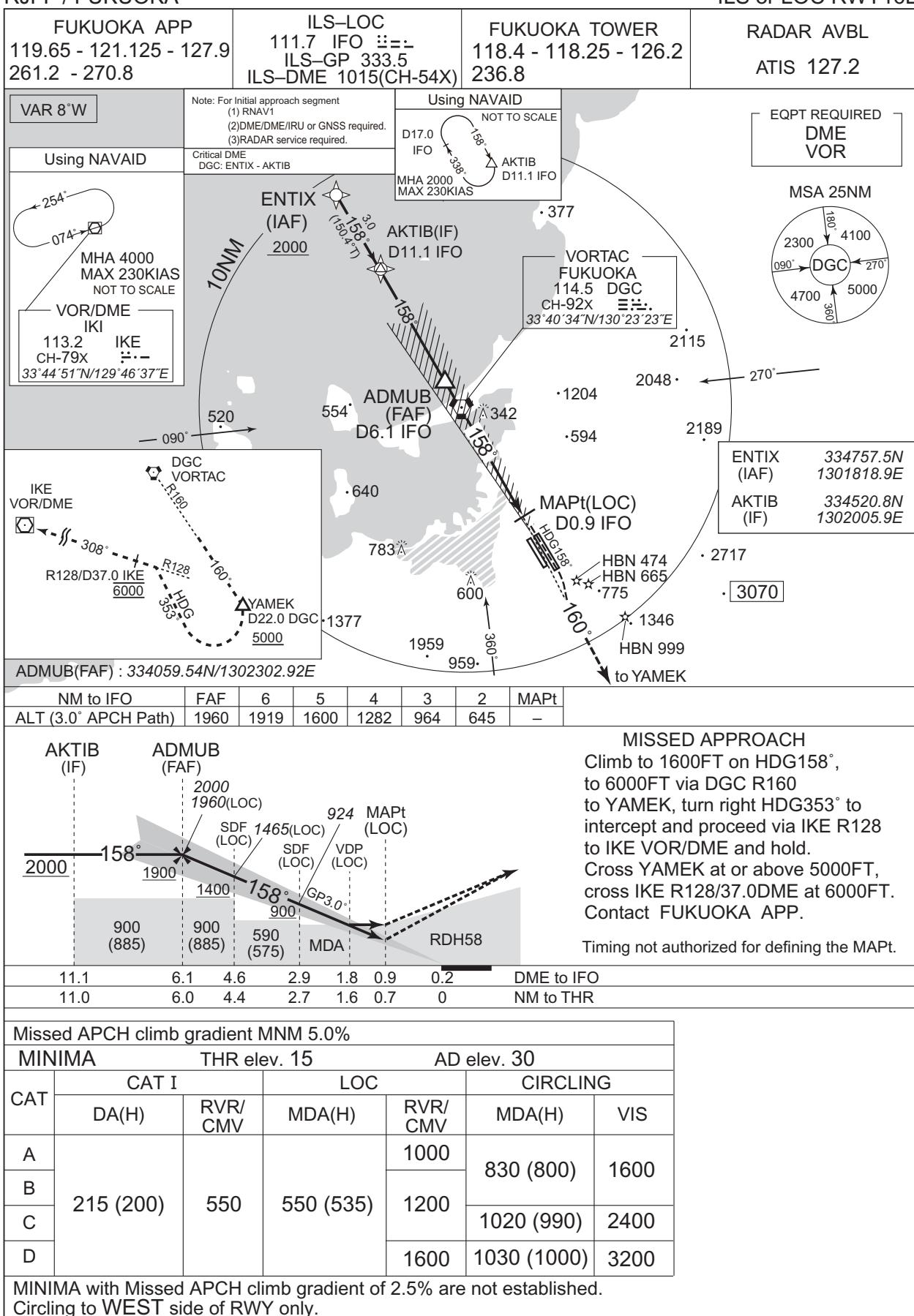
RJFF / FUKUOKA

RNP RWY34L



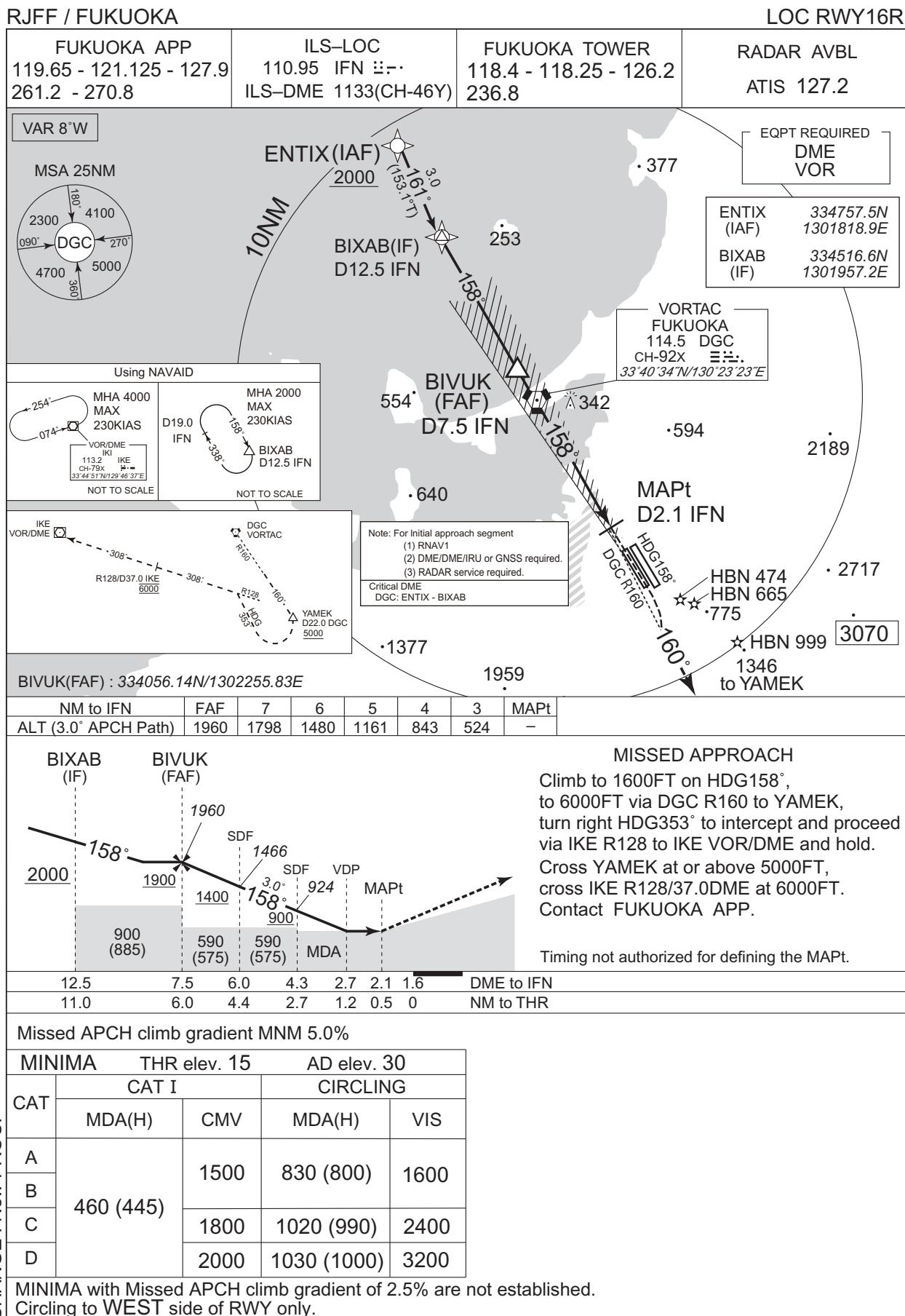
INSTRUMENT APPROACH CHART

RJFF / FUKUOKA



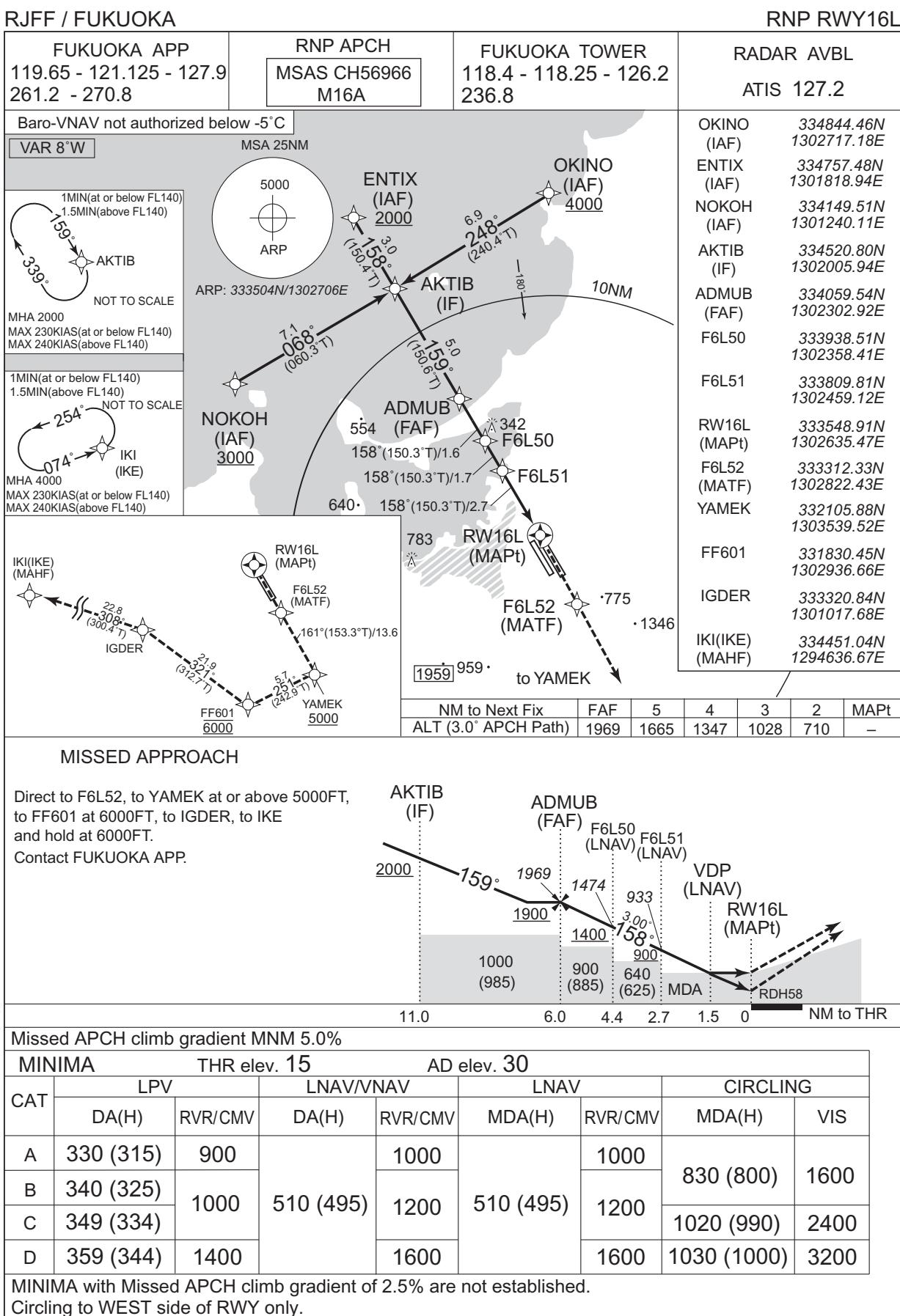
CHANGE : AKTIB, ADMUB established. MALTS, AINOS abolished. FREQ for FUKUOKA TOWER.

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

CHANGE : AKTIB, ADMUB, F6L50, F6L51, RW16L, F6L52, IGDER established. MALTS, AINOS, FF651, FF652, RW16, FF653, KAFRI abolished.
 PROC renamed. OCA(H). HLDG pattern at AKTIB established. FREQ for FUKUOKA TOWER.



INSTRUMENT APPROACH CHART

RJFF / FUKUOKA

RNP RWY16L

FAS DATA BLOCK

| | | | |
|----------------------------------|---------------|----------------------------|---------------|
| Operation type | 0 | LTP/FTP ellipsoidal height | +00371 |
| SBAS service provider identifier | 2 | FPAP latitude | 333429.8705N |
| Airport identifier | RJFF | FPAP longitude | 1302729.4540E |
| Runway | 163 | Threshold crossing height | 00017.7 |
| Approach performance designator | 0 | TCH units selector | 1 |
| Route indicator | | Glide path angle | 03.00 |
| Reference path data selector | 0 | Course width at threshold | 105.00 |
| Reference path ID | M16A | Δ length offset | 0000 |
| LTP/FTP latitude | 333548.8630N | HAL | 40.0 |
| LTP/FTP longitude | 1302635.4830E | VAL | 50.0 |
| CRC remainder | 299CD01B | | |

Required additional data

| | |
|----------------------------|-----|
| LTP/FTP orthometric height | 4.5 |
|----------------------------|-----|

CHANGE : Runway and CRC remainder of FAS DATA BLOCK.

INSTRUMENT APPROACH CHART

RJFF / FUKUOKA

RNP RWY16R

FUKUOKA APP
119.65 - 121.125 - 127.9
261.2 - 270.8

RNP APCH

FUKUOKA TOWER
118.4 - 118.25 - 126.2
236.8

RADAR AVBL
ATIS 127.2

Baro-VNAV not authorized below -5°C

VAR 8°W

1MIN(at or below FL140)
1.5MIN(above FL140)

BIXAB
NOT TO SCALE

MHA 2000
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)

1MIN(at or below FL140)
1.5MIN(above FL140)

NOT TO SCALE

IKI (IKE)
MHA 4000
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)

130° 20°E 2 0 2 4 6 8 KM 10 130° 30°E

MSA 25NM ENTIX (IAF) 5000 2000 ARP: 333504N / 1302706E

OKINO (IAF) 4000

NOKOH (IAF) 3000

BIXAB (IF)

BIVUK (FAF)

F6R50

F6R51

158° (150.3°T)/1.6

158° (150.3°T)/1.7

158° (150.3°T)/2.7

158° (150.3°T)/2.7

RW16R (MAPt)

YAMEK

2000
1500
1000
500
AD elev.30

Contour Intervals

to YAMEK

IGDER

RW16R (MAPt)

F6R52 (MATF)

161° (152.8°T)/13.6

FF601 6000

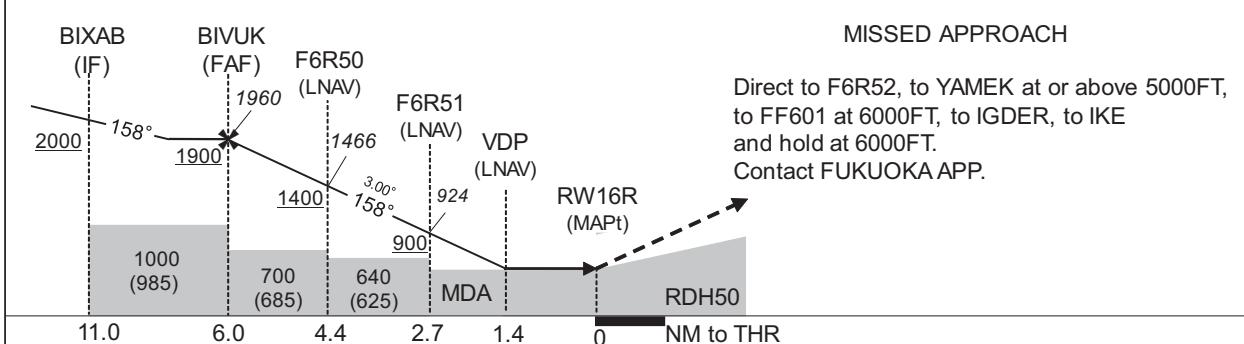
YAMEK 5000

22.8° (300.4°T)
30.8° (300.4°T)

25.9° (312.7°T)
33.1° (312.7°T)

5.1° (242.9°T)
25.9° (242.9°T)

4 3 2 MAPt

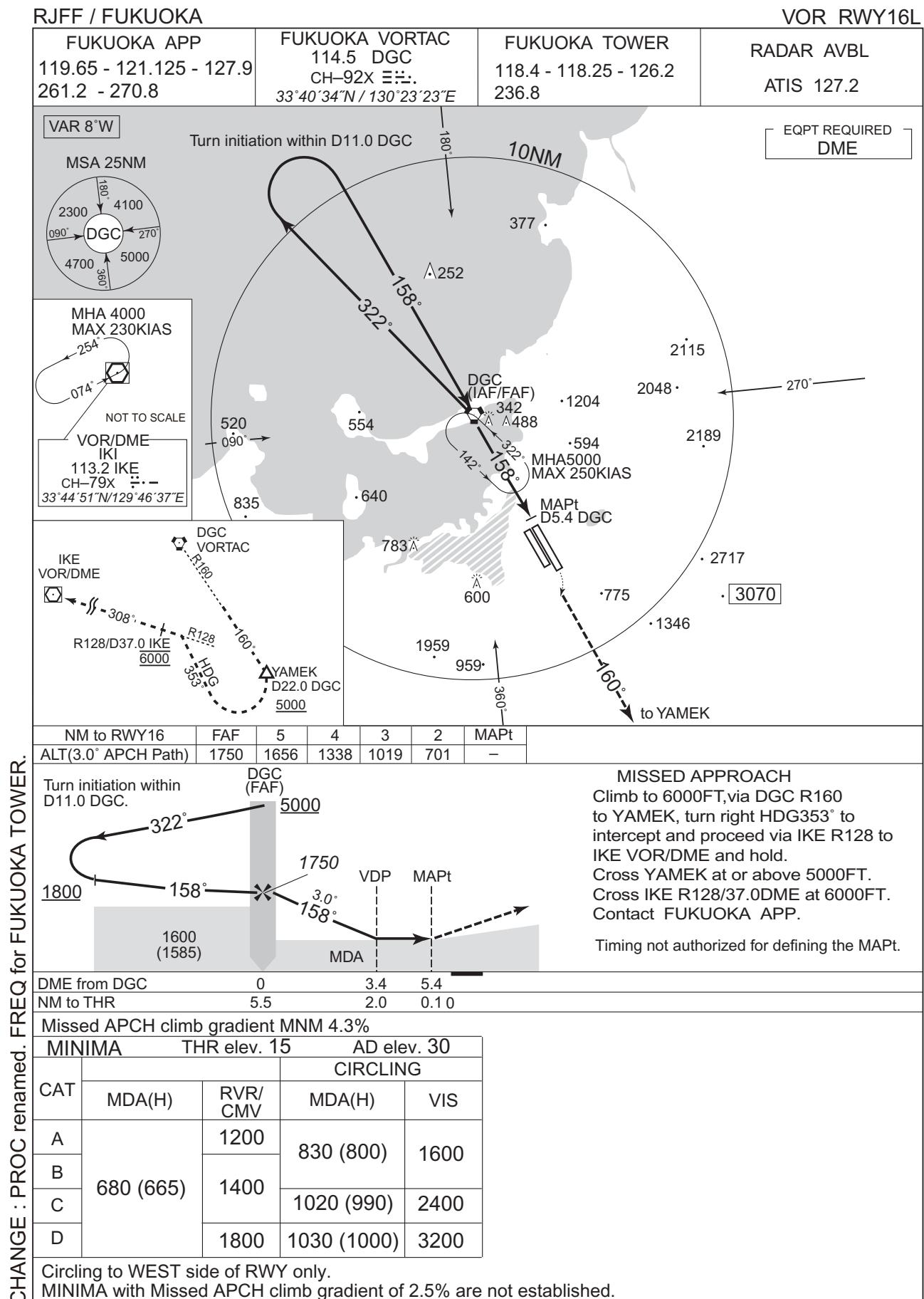


| Missed APCH climb gradient MNM 5.0% | | | | | | |
|-------------------------------------|-----------|--------------|----------|-------------|------------|------|
| MINIMA | | THR elev. 15 | | AD elev. 30 | | |
| CAT | LNAV/VNAV | | LNAV | | CIRCLING | |
| | DA(H) | CMV | MDA(H) | CMV | MDA(H) | VIS |
| A | 510(495) | 1500 | 510(495) | 1500 | 830(800) | 1600 |
| B | | | | 2000 | 1020(990) | 2400 |
| C | | | | 2000 | 1030(1000) | 3200 |
| D | | | | | | |

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

CHANGE : New PROC.

INSTRUMENT APPROACH CHART

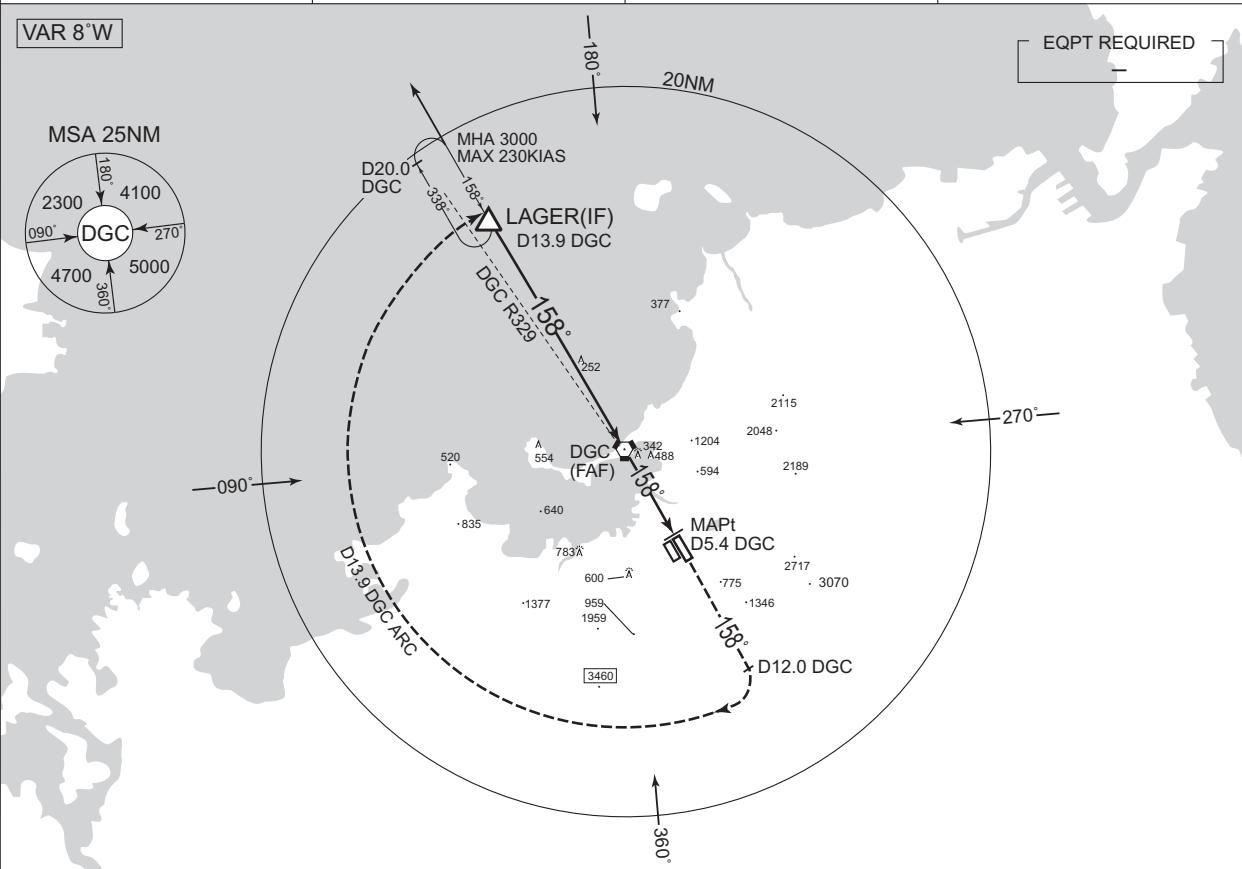


INSTRUMENT APPROACH CHART

RJFF / FUKUOKA

TACAN RWY16L

| | | | |
|--|--|--|--------------------------|
| FUKUOKA APP 119.65 - 121.125 - 127.9 261.2 - 270.8 | FUKUOKA VORTAC 114.5 DGC CH-92X ETC. 33°40'34"N / 130°23'23"E | FUKUOKA TOWER 118.4 - 118.25 - 126.2 236.8 | RADAR AVBL ATIS 127.2 |
|--|--|--|--------------------------|

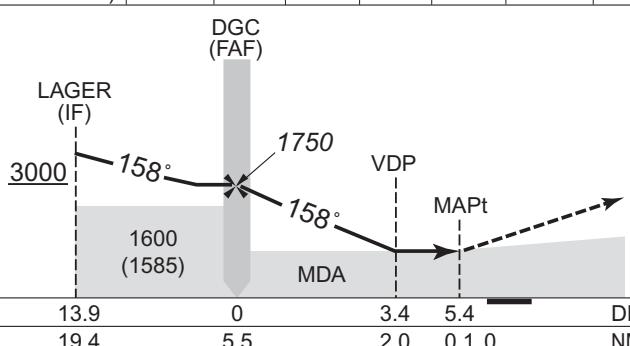


CHANGE : PROC renamed. FREQ for FUKUOKA TOWER.

| NM to RWY16 | FAF | 5 | 4 | 3 | 2 | MAPt | |
|---------------------|------|------|------|------|-----|------|--|
| ALT(3.0° APCH Path) | 1750 | 1656 | 1338 | 1019 | 701 | — | |

MISSED APPROACH
Climb to 5000FT via DGC R158 to DGC 12.0DME, turn right, via DGC 13.9DME clockwise ARC to LAGER and hold.
Contact FUKUOKA APP.

Timing not authorized for defining the MAPt.



Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 15 AD elev. 30

| CAT | CIRCLING | | | |
|-----|-----------|-------------|-----------|------------|
| | MDA(H) | RVR/CMV | MDA(H) | VIS |
| A | 1200 | | 830 (800) | 1600 |
| B | 680 (665) | | 1400 | 1020 (990) |
| C | | | | 2400 |
| D | 1800 | 1030 (1000) | | 3200 |

Circling to WEST side of RWY only.

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

RJFF / FUKUOKA

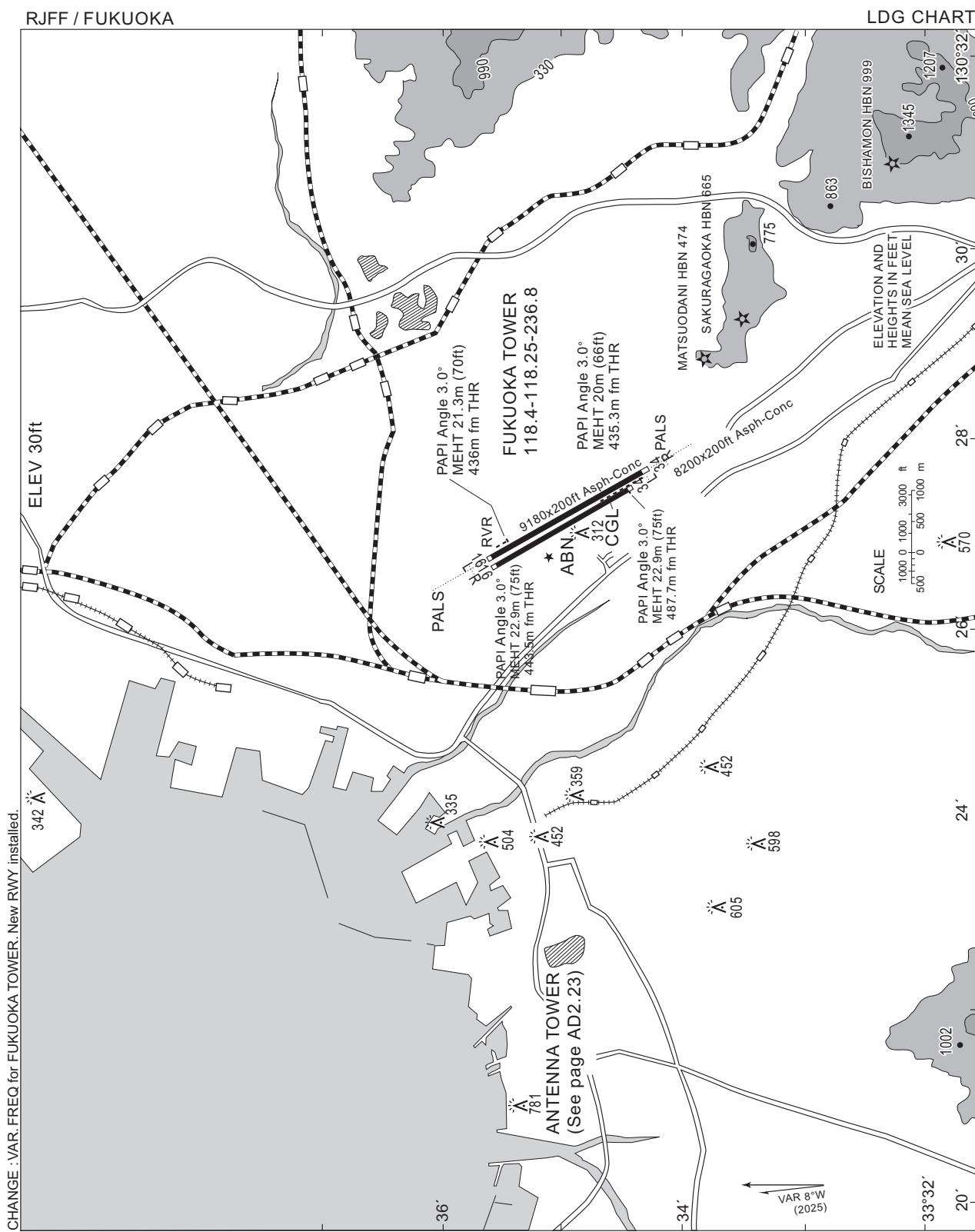
Visual REP



CHANGE : VAR, FREQ for FUKUOKA TOWER, New RWY installed.

| Call sign | BRG / DIST from ARP | Remarks |
|-------------------|---------------------|-----------------------------|
| 古賀 Koga | 014°T / 8.4NM | 高速道路インターチェンジ Interchange |
| 長者原 Chojabaru | 046°T / 2.3NM | ドーム型建造物 Dome |
| 太宰府 Dazaifu | 133°T / 6.4NM | ゴルフ場 Golf Course |
| 三沢 Mitsusawa | 153°T / 10.4NM | ゴルフ場 Golf Course |
| * 那珂川 Nakagawa | 197°T / 5.8NM | 松尾橋 Bridge |
| 室見 Muromi | 277°T / 5.4NM | 室見川河口 River mouth |
| 今津 Imazu | 275°T / 9.4NM | 今津橋 Bridge |
| 志賀 Shika | 305°T / 8.2NM | 志賀島橋 Bridge |
| 北崎 Kitazaki | 289°T / 11.5NM | 漁港 Harbor |

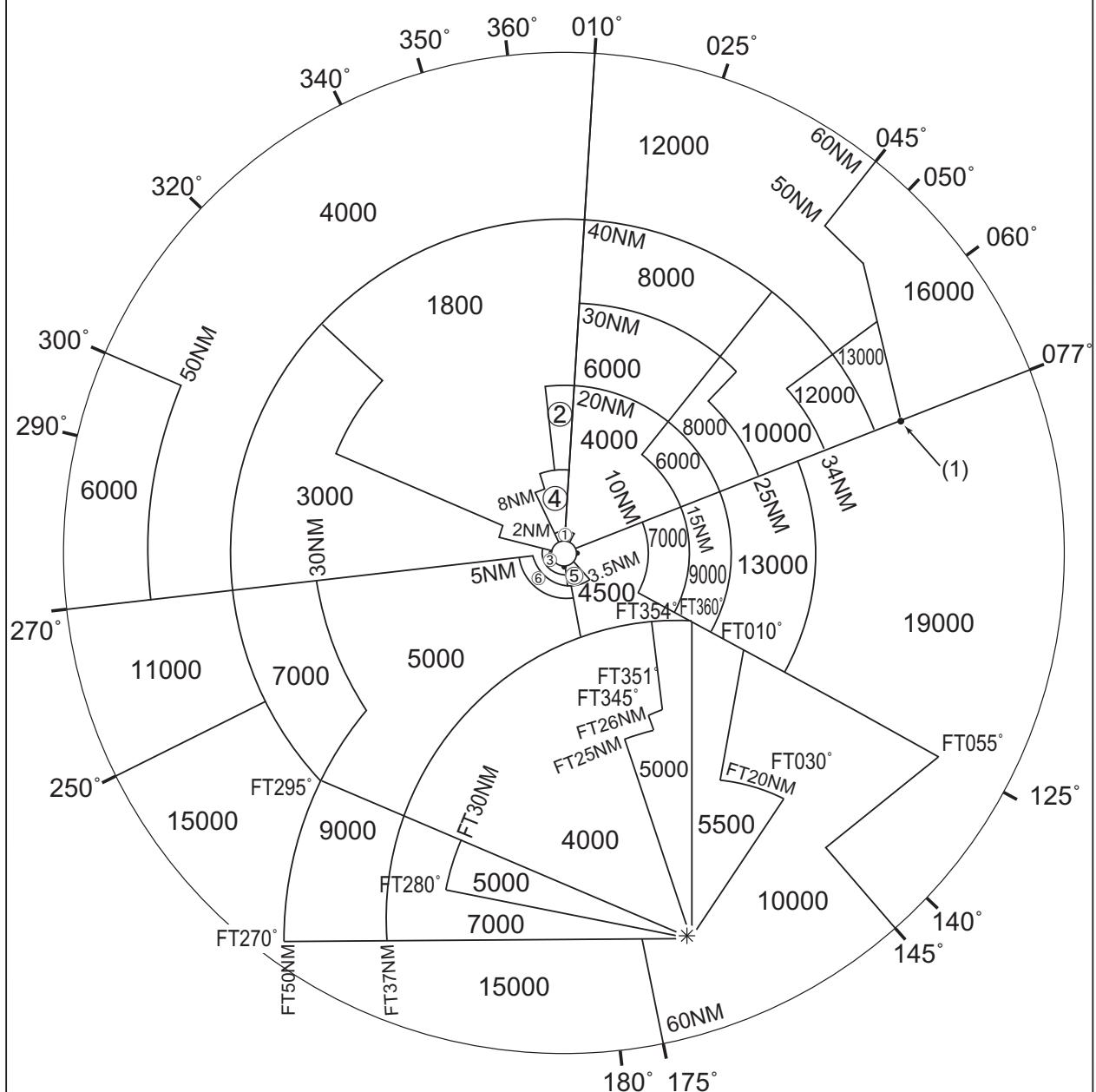
* ヘリコプター用 Use For Helicopter



RJFF / FUKUOKA

Minimum Vectoring Altitude CHART

VAR 8°W (2025)



- ① 1900
- ② 2000
- ③ 2200
- ④ 2300
- ⑤ 2400
- ⑥ 3300

(1) 334821N/1311428E

CENTER : 333519N/1302625E (No.1 RADAR SITE)
CENTER : 333448N/1302648E (No.2 RADAR SITE)
* : 324949N/1305041E (RJFT RADAR SITE)

CHANGE : VAR.

INTENTIONALLY LEFT BLANK