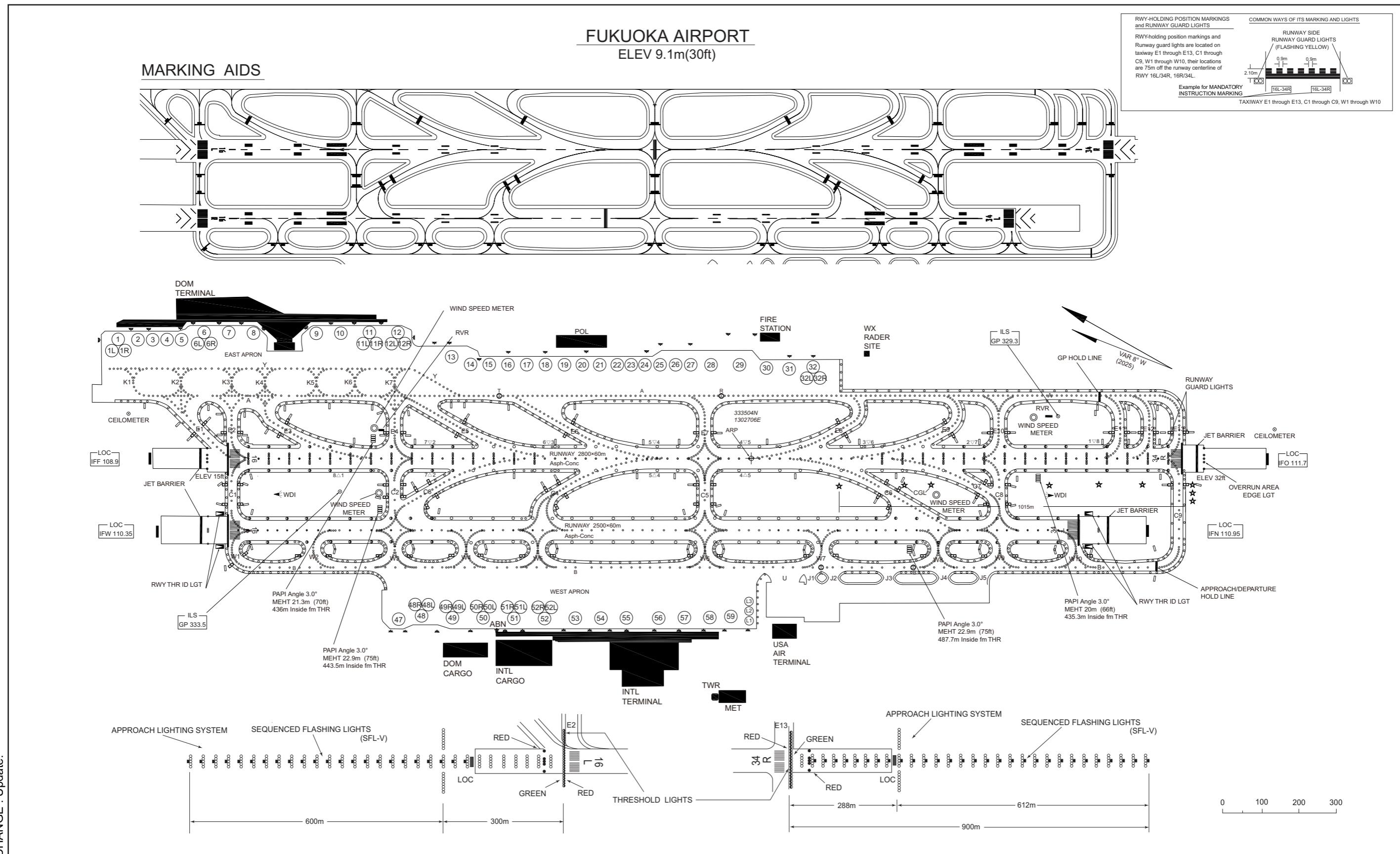
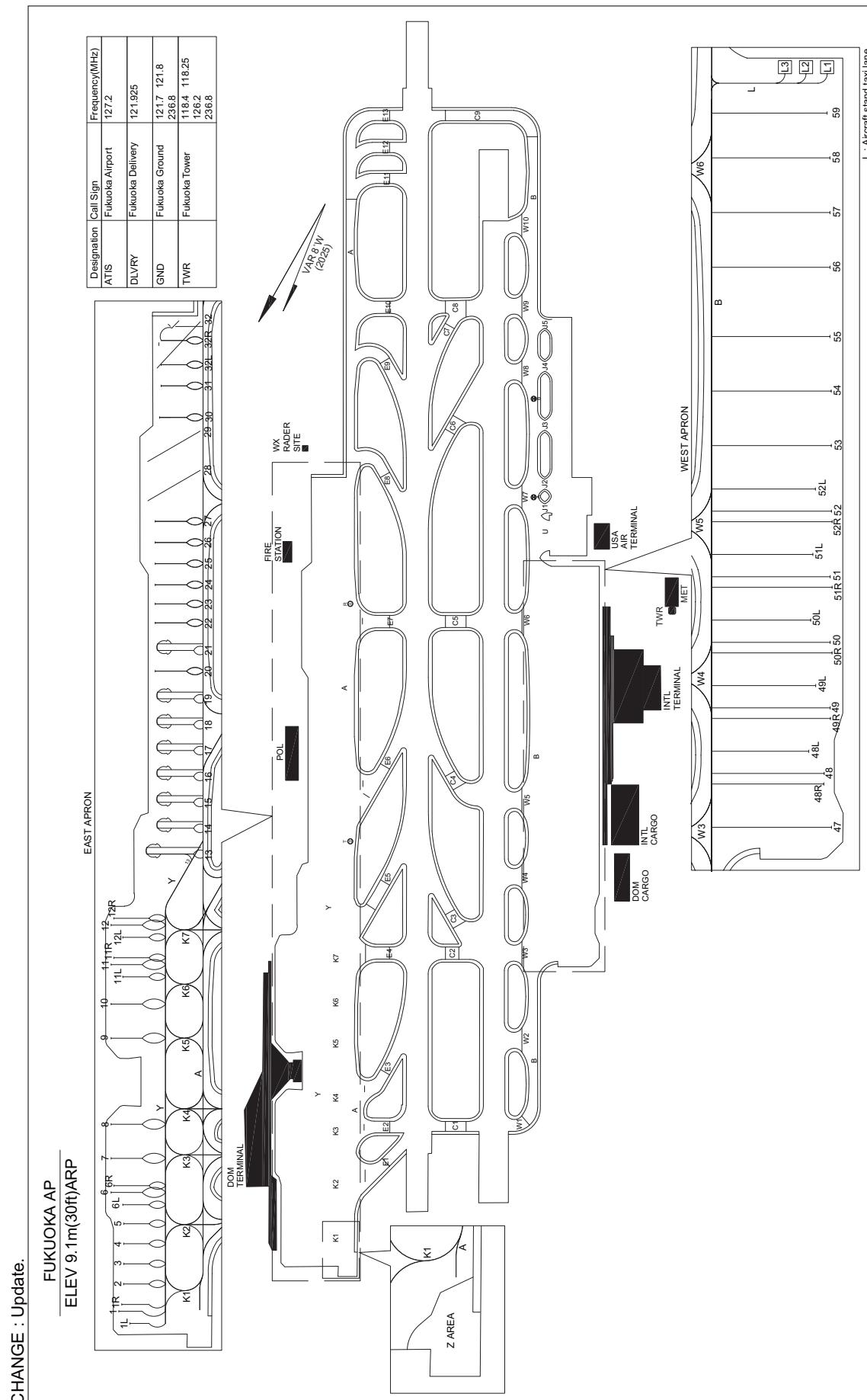


AERODROME CHART



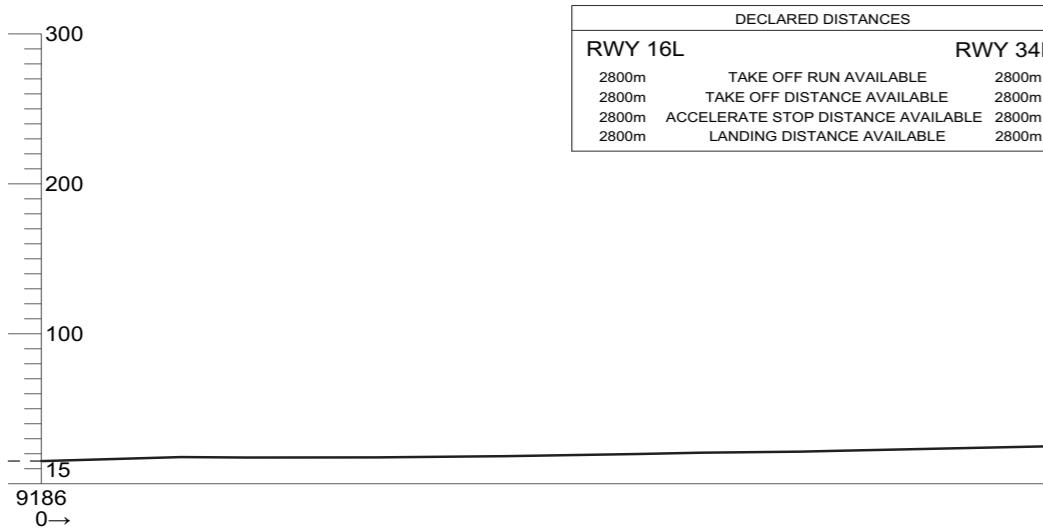


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DIMENSIONS AND ELEVATIONS IN FEET, BEARINGS ARE MAGNETIC
Transverse Mercator Projection

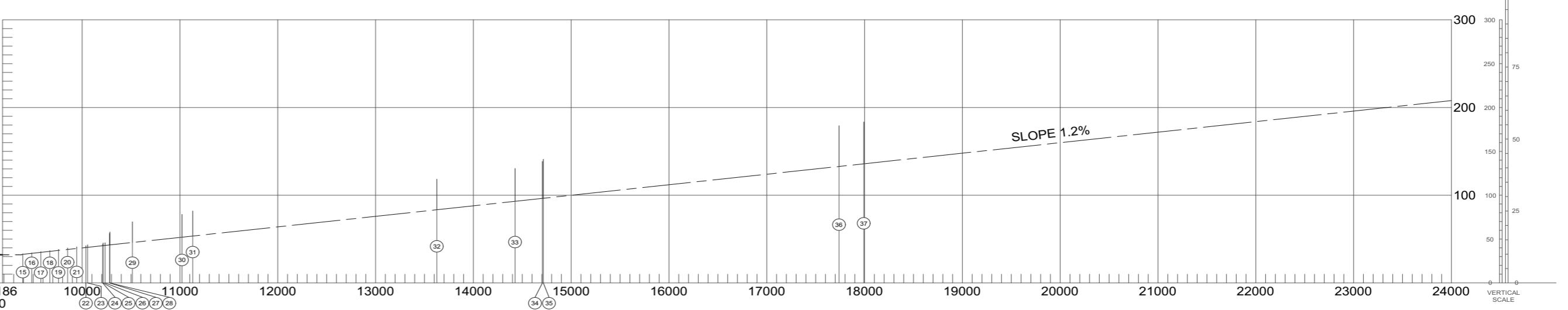
MAGNETIC VARIATION 8° W-MAR 2025

FUKUOKA AIRPORT
RWY : 16L/34R

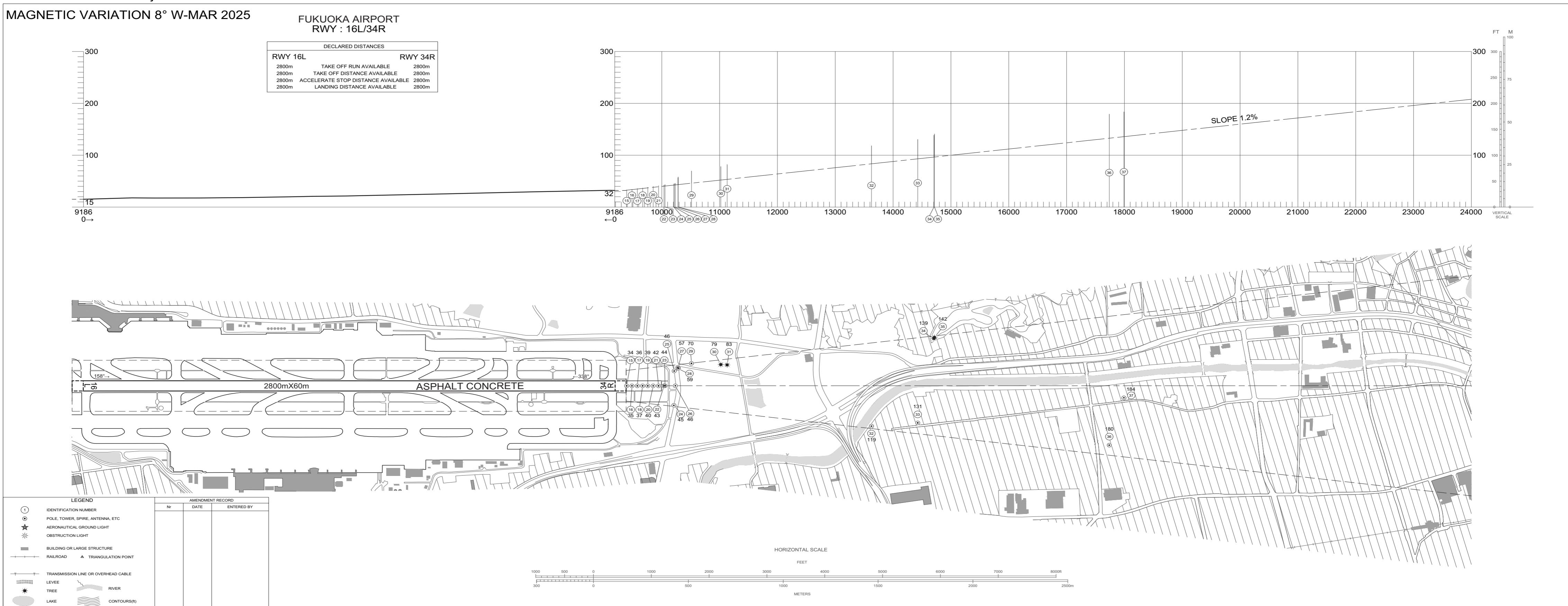


AERODROME OBSTACLE CHART-ICAO

TYPE A (OPERATING LIMITATIONS)



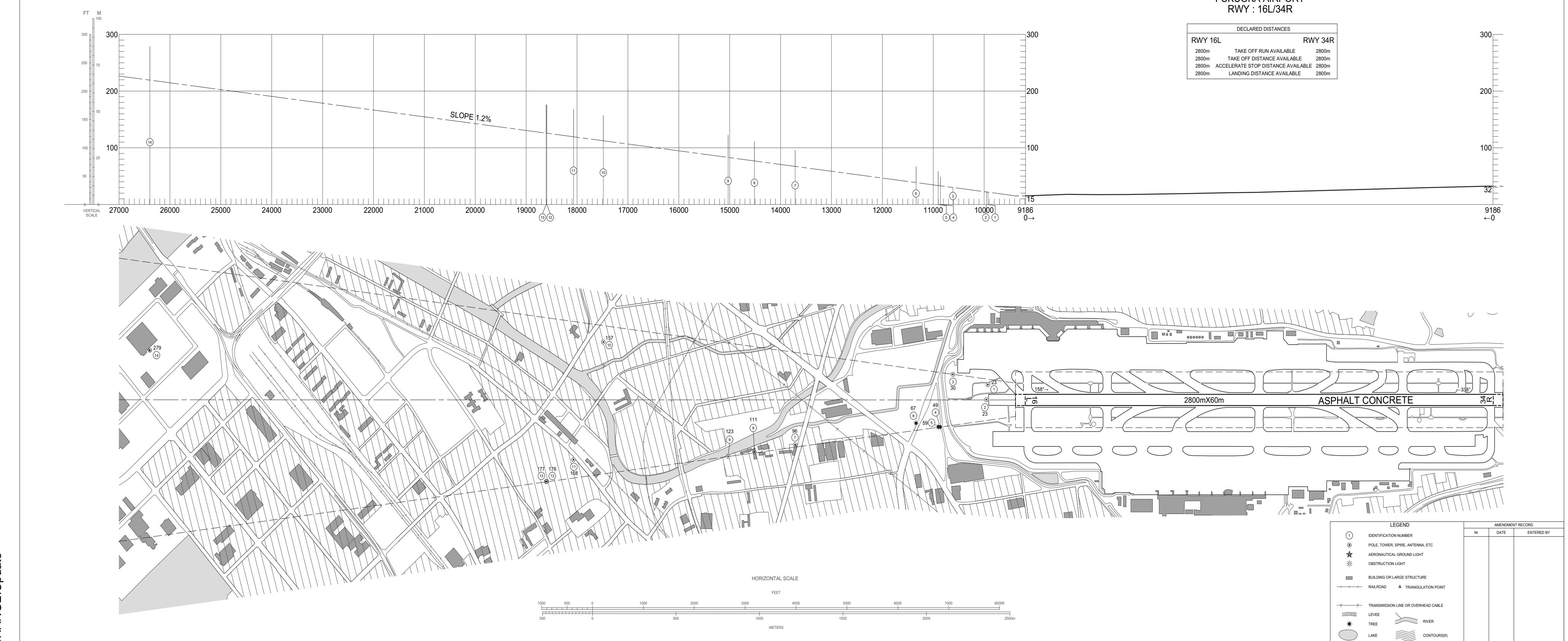
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DIMENSIONS AND ELEVATIONS IN FEET, BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION 8° W-MAR 2025



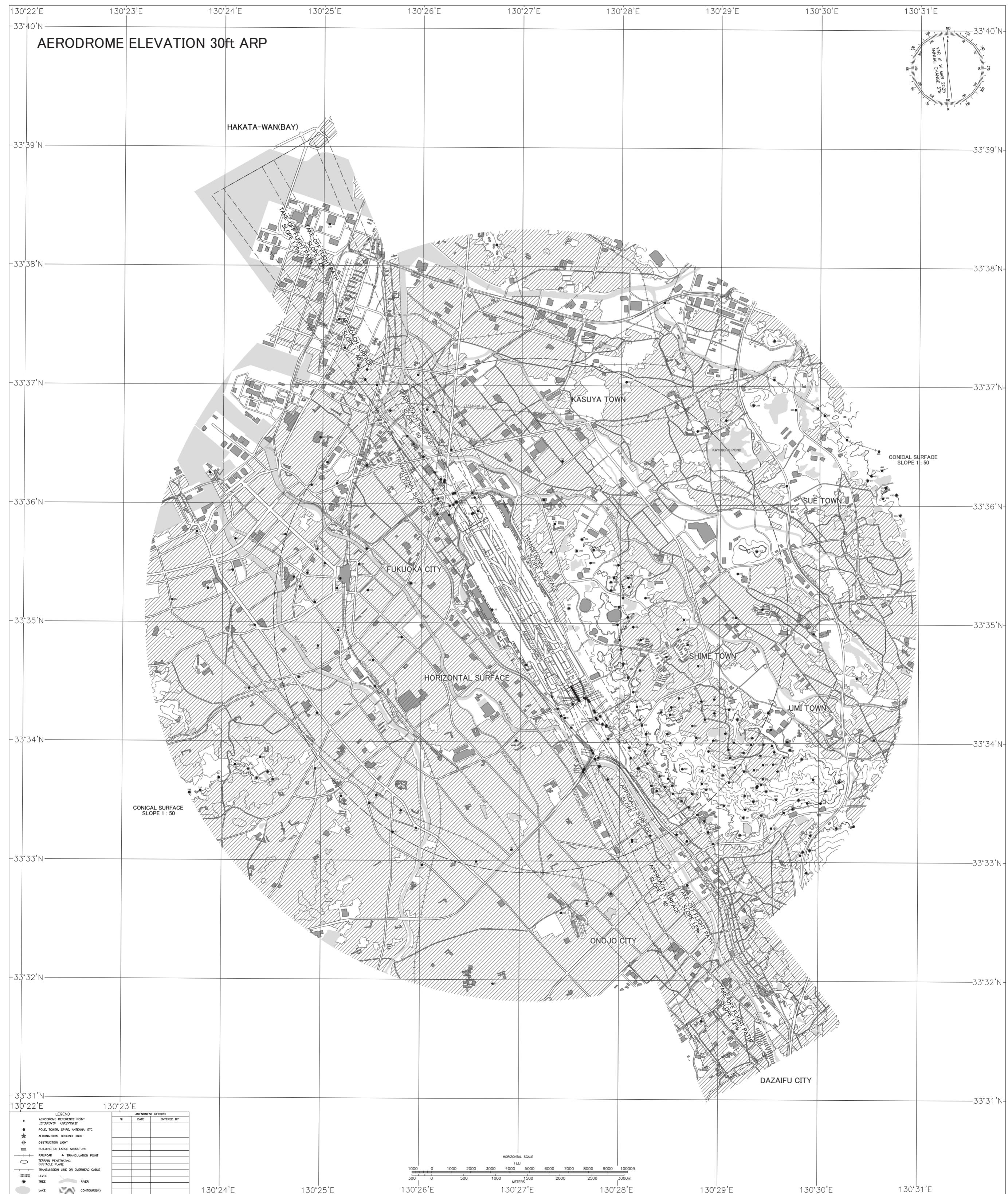
DIMENSIONS AND ELEVATIONS IN FEET, BEARINGS ARE MAGNETIC
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DIMENSIONS AND ELEVATIONS IN FEET, BEARINGS ARE MAGNETIC
Transverse Mercator ProjectionAERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION 8° W-MAR 2025



AERODROME OBSTACLE CHART-ICAO
TYPE BDIMENSIONS AND ELEVATIONS IN FEET, BEARINGS ARE MAGNETIC
Transverse Mercator Projection

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.

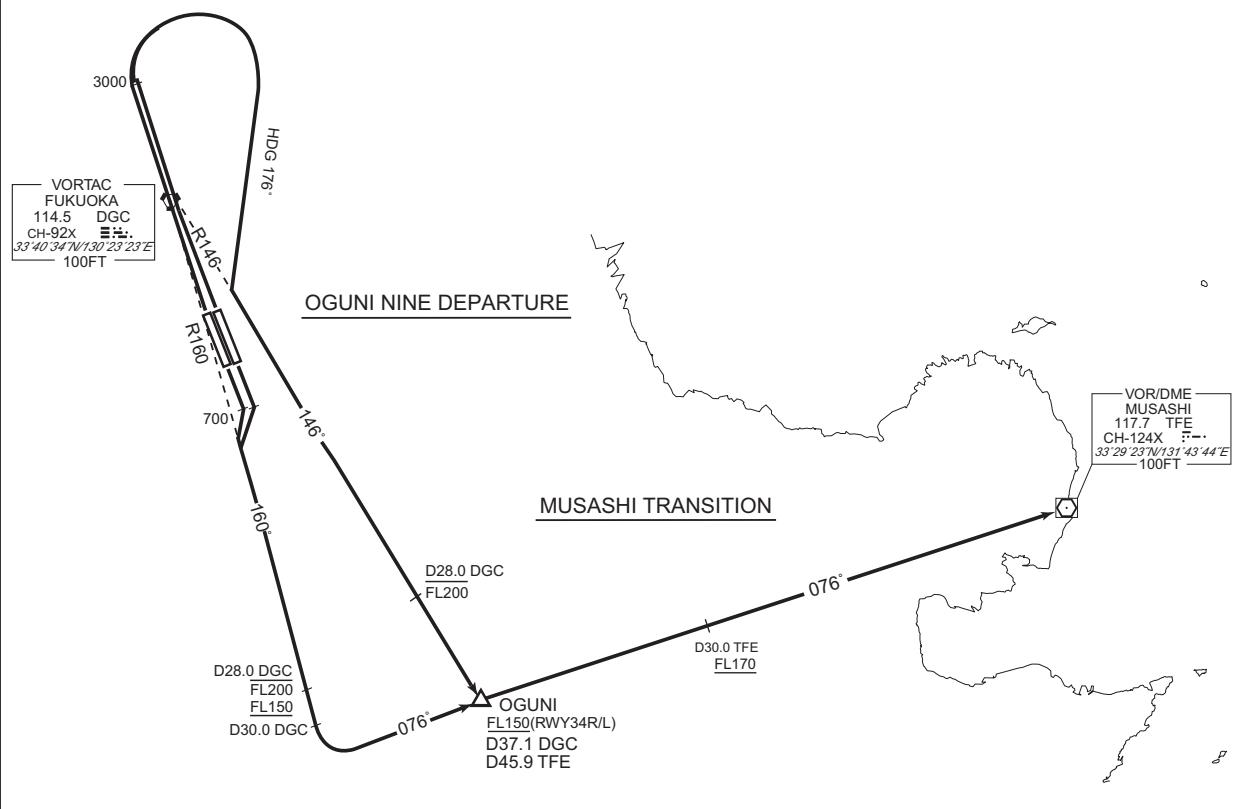
OBST ALT 135FT located at 0.3NM 309° FM end of RWY34L.

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

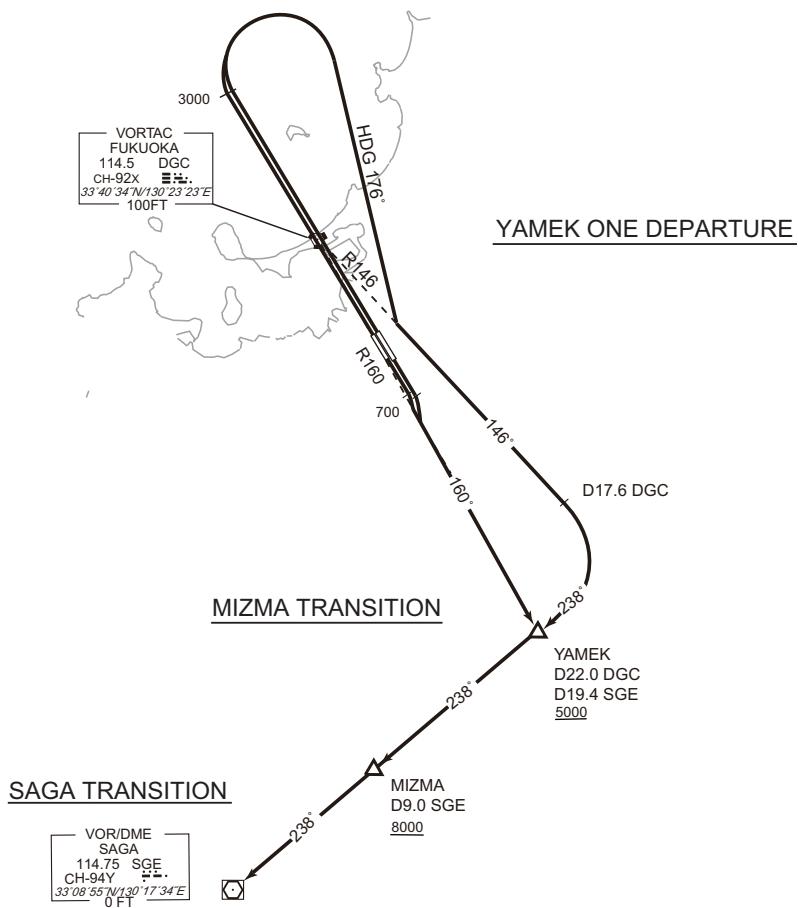
From over YAMEK, via SGE R058 to SGE VOR/DME.

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.

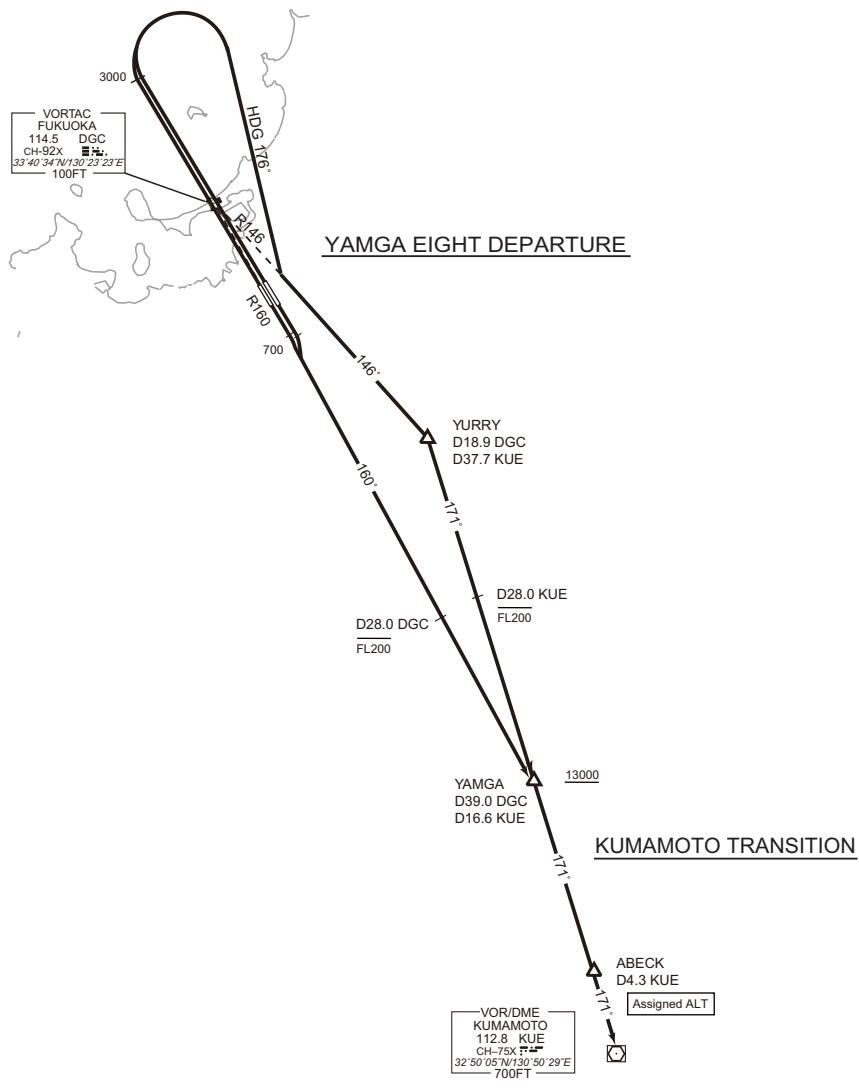
OBST ALT 135FT located at 0.3NM 309° FM end of RWY34L.

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.

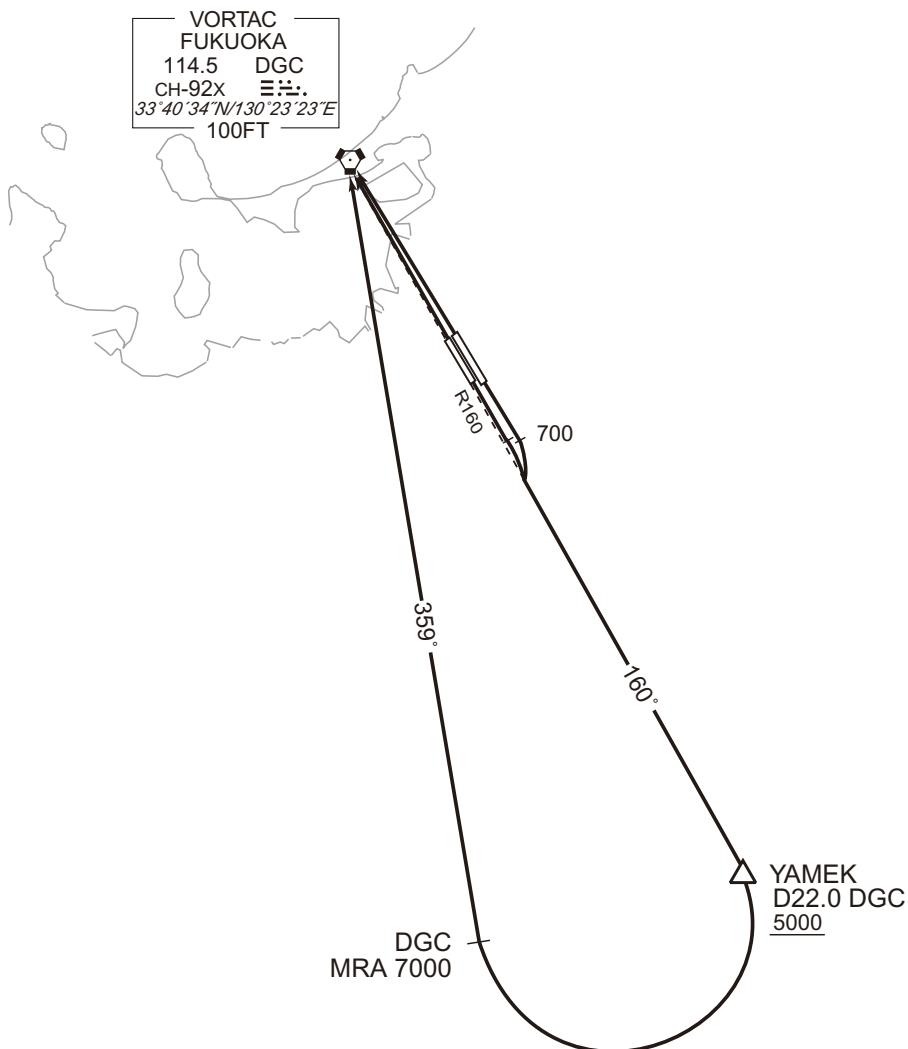
OBST ALT 130FT located at 0.3NM 186° FM end of RWY16R.

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.



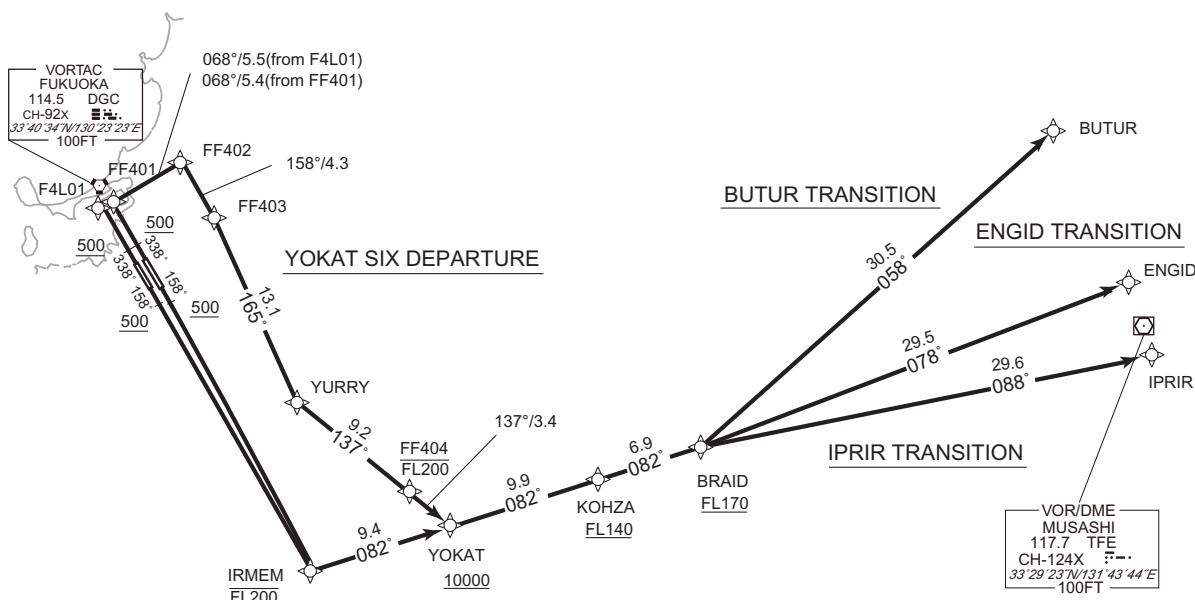
STANDARD DEPARTURE CHART-INSTRUMENT

RJFF / FUKUOKA

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	RNAV16L/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
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		
Inappropriate Navaids See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1		

VAR 8°W

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

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

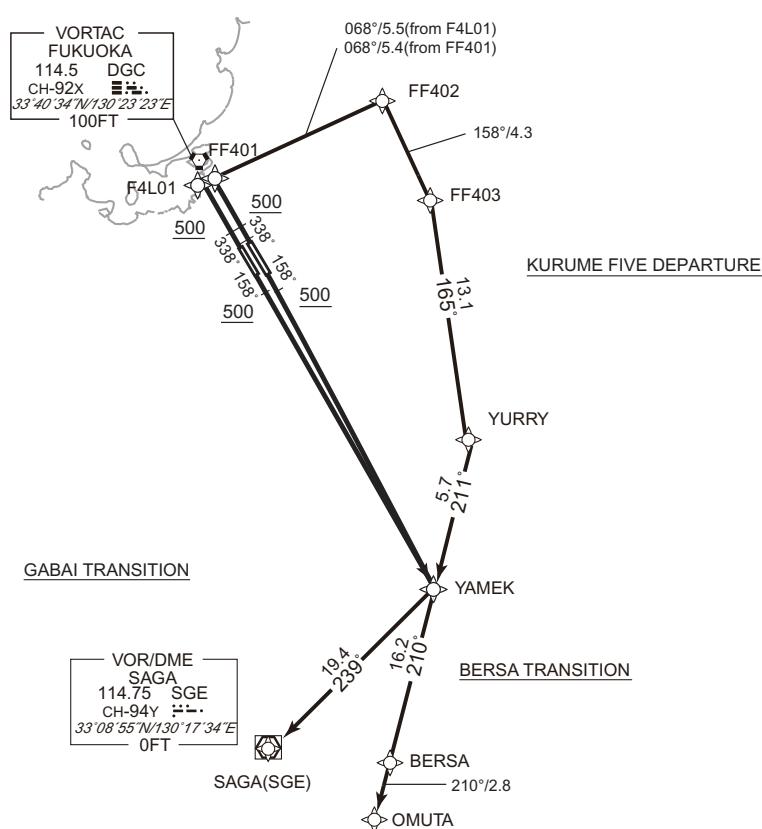
STANDARD DEPARTURE CHART - INSTRUMENT

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	<p>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</p>
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

VAR 8°W

KURUME FIVE DEPARTURE

RWY34R : Climb on HDG 338° at or above 500FT, direct to FF401, to FF402, to FF403, to YURRY, to YAMEK.

RWY34L : Climb on HDG 338° at or above 500FT, direct to F4L01, to FF402, to FF403, to YURRY, to YAMEK.

RWY16L/16R : Climb on HDG 158° at or above 500FT, direct to YAMEK.

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.

BERSA TRANSITION

From YAMEK, to BERSA, to OMUTA.

GABAI TRANSITION

From YAMEK, to SGE.

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

STANDARD DEPARTURE CHART - INSTRUMENT

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	

GABAI 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	YAMEK	—	—	-8.0	—	—	—	—	—	RNAV1
002	TF	SGE	—	239 (231.2)	-8.0	19.4	—	—	—	—	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates
YAMEK	332105.9N / 1303539.5E
BERSA	330609.6N / 1302818.4E
OMUTA	330332.2N / 1302701.4E
SGE	330855.0N / 1301734.4E

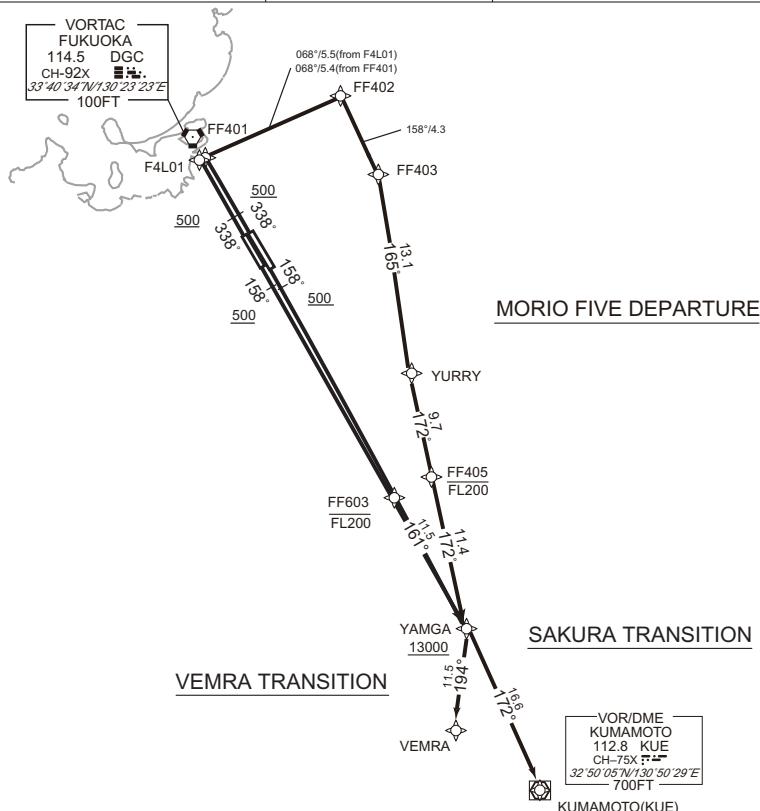
STANDARD DEPARTURE CHART - INSTRUMENT

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	RNAV16L/16R DGC : 19.6NM to FF603 - 14.8NM to FF603 IKE : 19.6NM to FF603 - 14.8NM to FF603 RNAV34L 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 RNAV34R 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		

VAR 8°W

MORIO FIVE DEPARTURE

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.

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.

RWY16L/16R : Climb on HDG 158° at or above 500FT, direct to FF603 at or below FL200, to YAMGA at or above 13000FT.

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.

SAKURA TRANSITION

From YAMGA at or above 13000FT, to KUE.

VEMRA TRANSITION

From YAMGA at or above 13000FT, to VEMRA.

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

STANDARD DEPARTURE CHART - INSTRUMENT

RJFF / FUKUOKA

RNAV TRANSITION

SAKURA 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	YAMGA	—	—	-8.0	—	—	+13000	—	—	RNAV1
002	TF	KUE	—	172 (164.3)	-8.0	16.6	—	—	—	—	RNAV1

VEMRA 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	YAMGA	—	—	-8.0	—	—	+13000	—	—	RNAV1
002	TF	VEMRA	—	194 (185.9)	-8.0	11.5	—	—	—	—	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates
YAMGA	330605.9N / 1304507.3E
KUE	325005.3N / 1305029.5E
VEMRA	325439.2N / 1304343.3E

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.

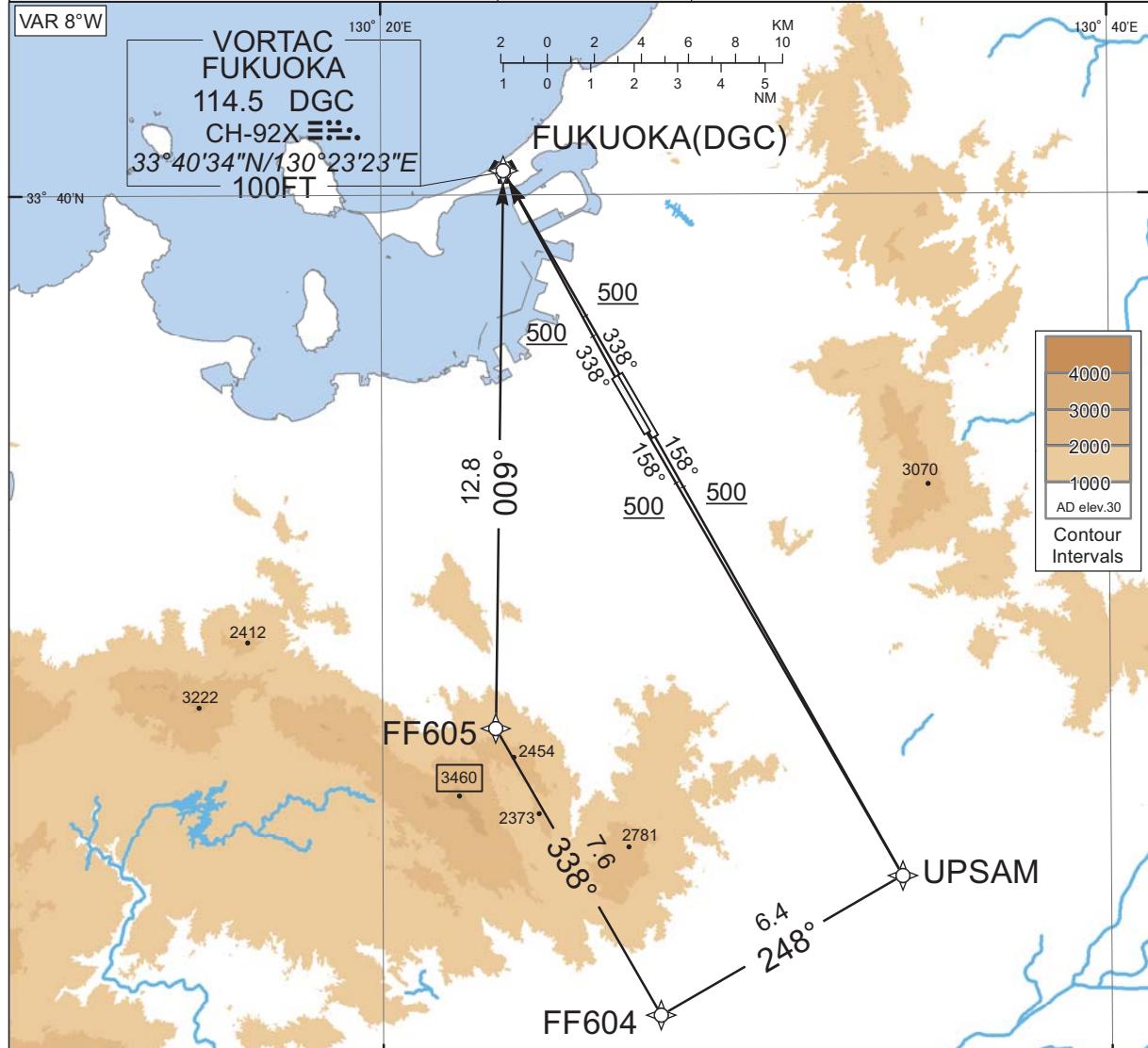
Critical DME

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.

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

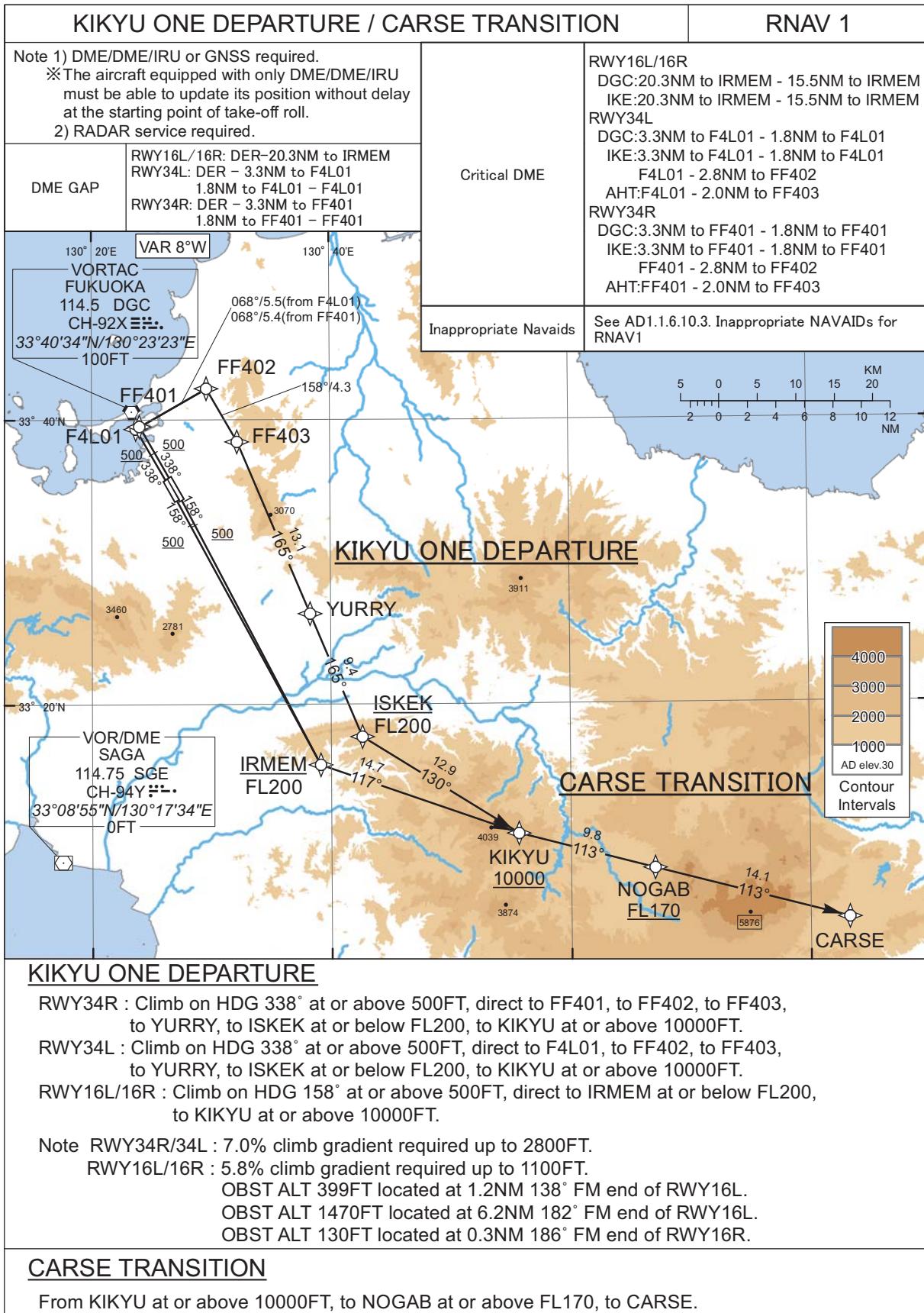
Waypoint Coordinates

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

STANDARD DEPARTURE CHART -INSTRUMENT

RJFF / FUKUOKA

RNAV SID and TRANSITION



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

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

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.

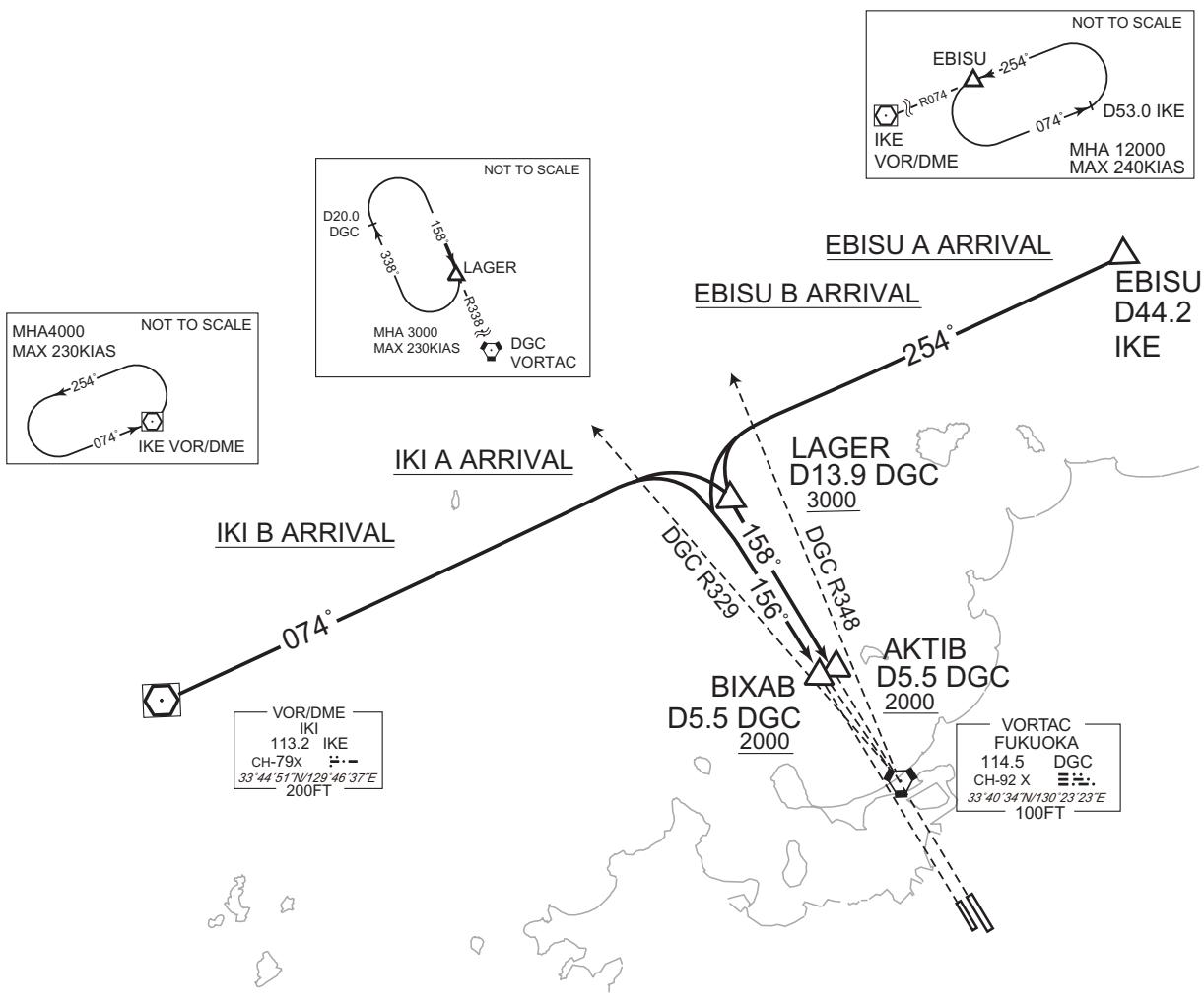
Cross LAGER at or above 3000FT, cross AKTIB at or above 2000FT.

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

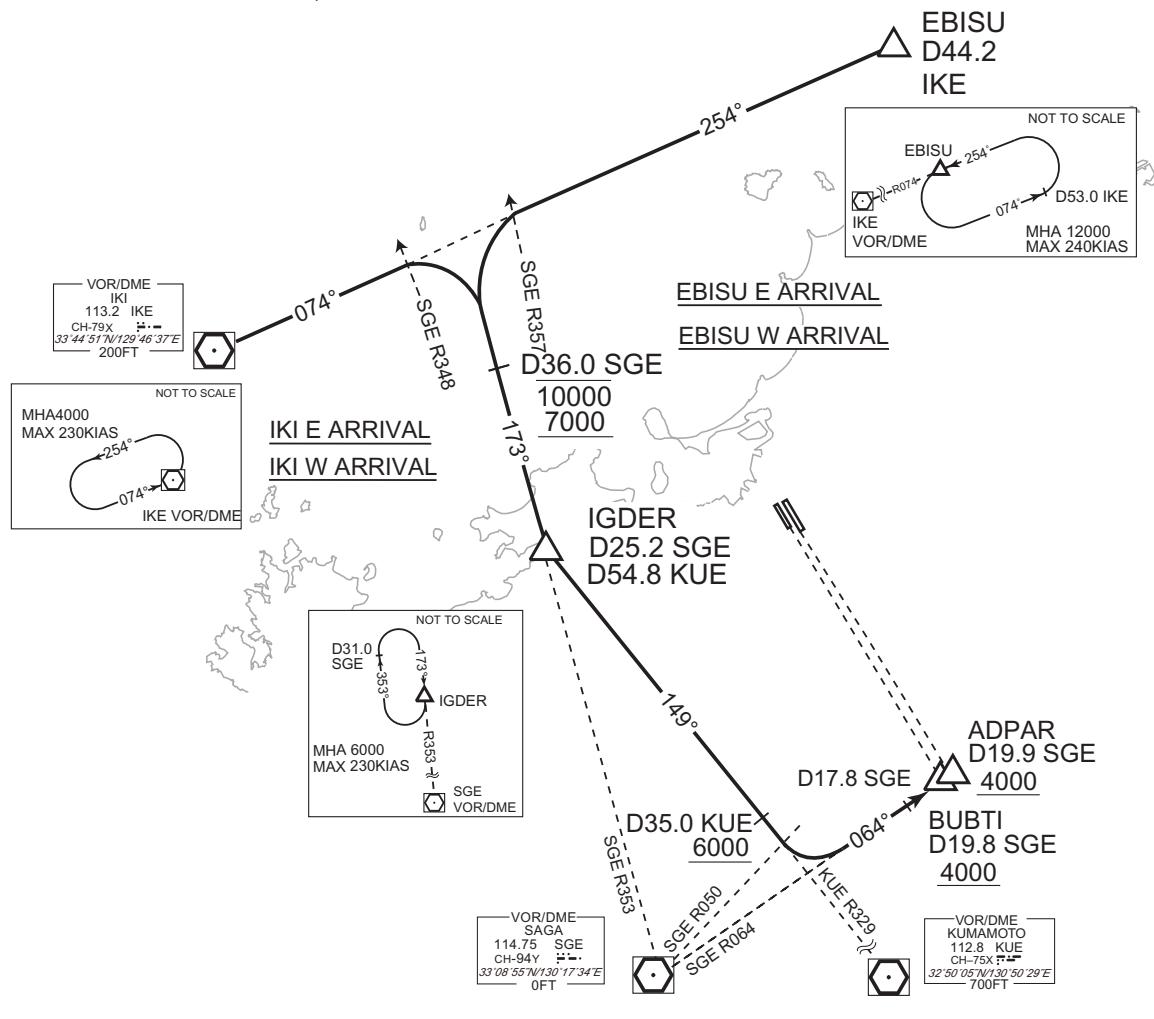
From over EBISU, proceed via IKE R074 to intercept and proceed via SGE R353 to IGDER, via KUE R329, to intercept and proceed via SGE R064 to BUBTI. Cross SGE R353/36.0DME between 7000FT and 10000FT, cross KUE R329/35.0DME at or above 6000FT, cross BUBTI at or above 4000FT.

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.



STANDARD ARRIVAL CHART-INSTRUMENT

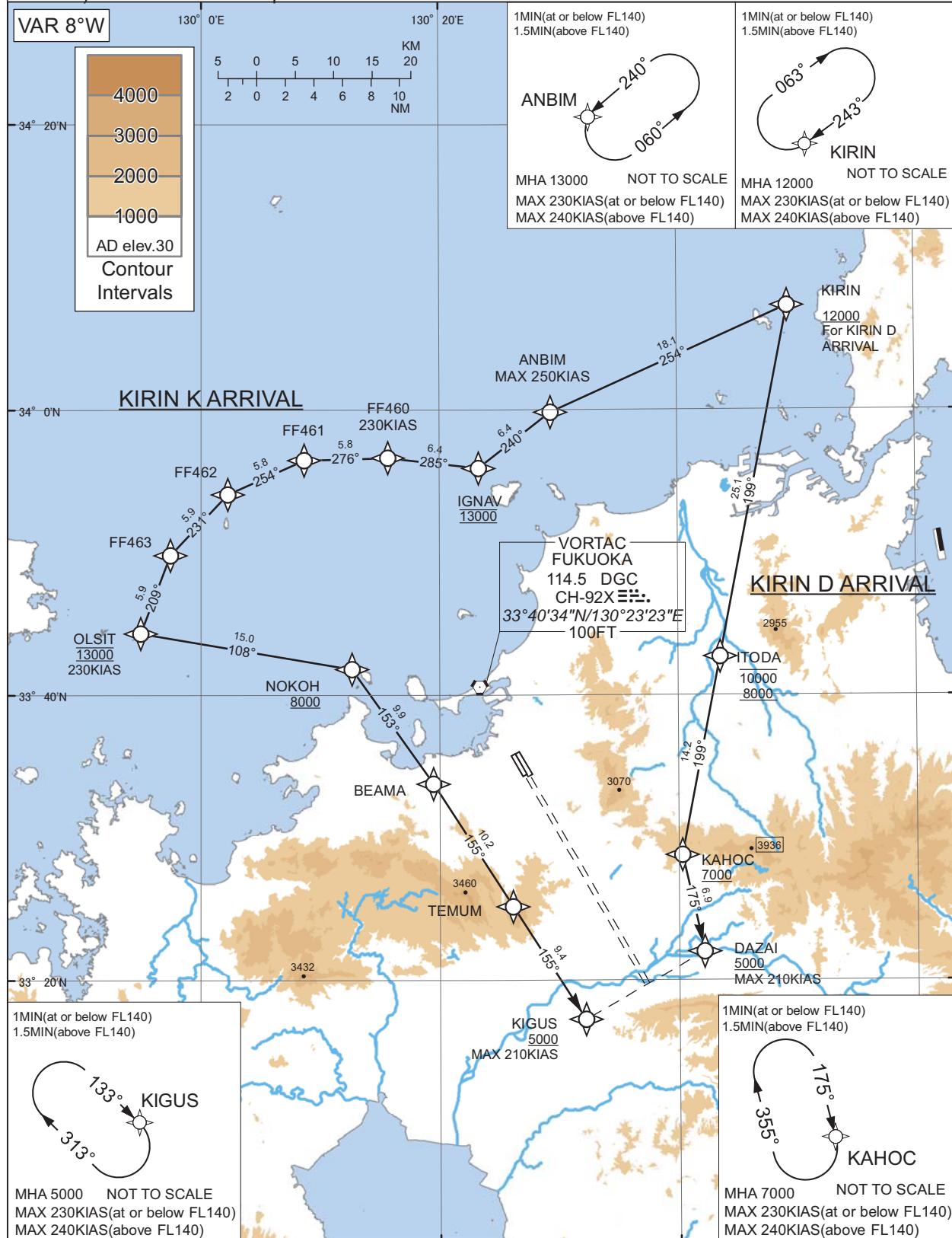
RJFF / FUKUOKA

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 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	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

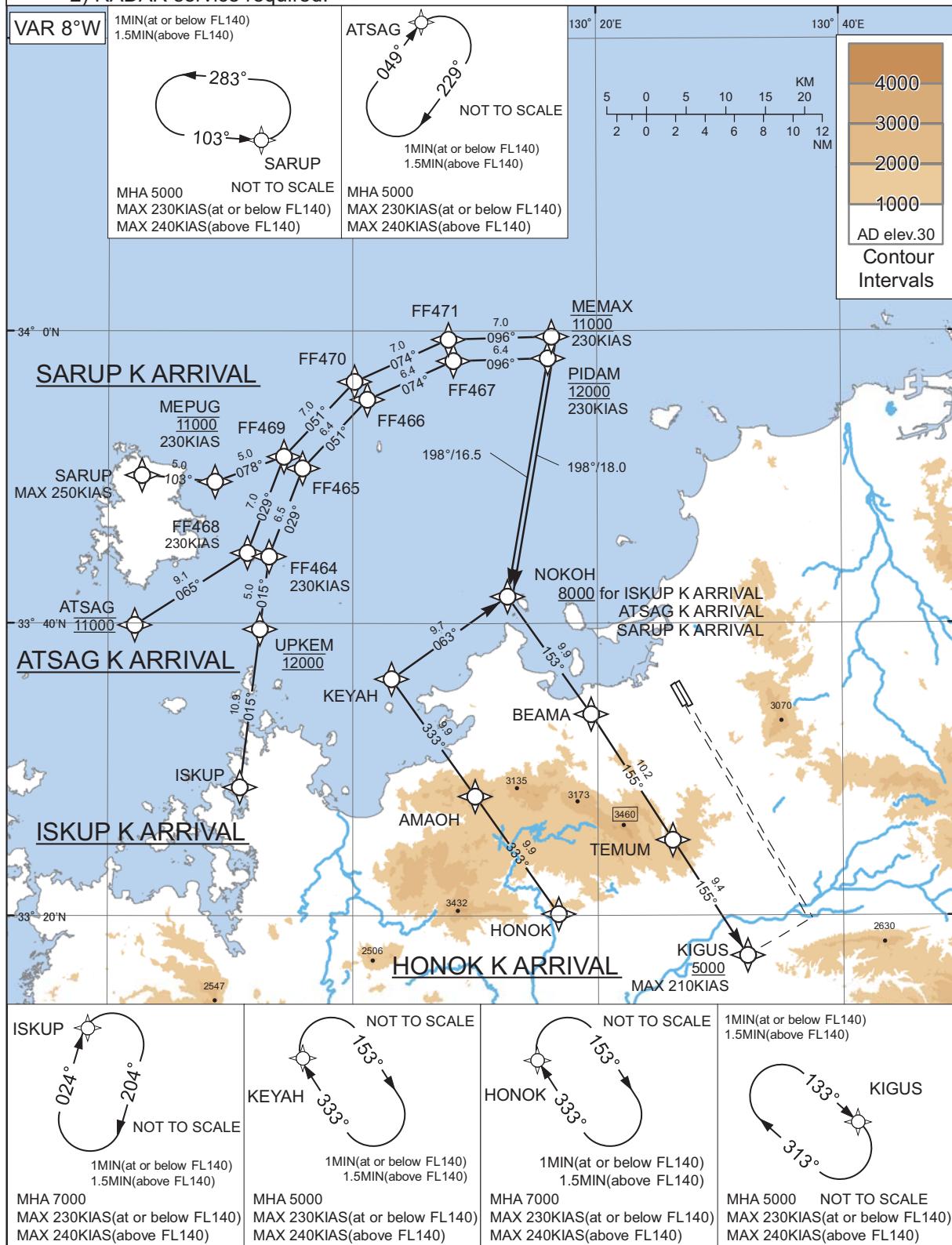
RJFF / FUKUOKA

RNAV STAR RWY34R/34L

HONOK K ARRIVAL / ISKUP K ARRIVAL / ATSAG K ARRIVAL / SARUP K ARRIVAL

RNAV1

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



CHANGE : New PROC.

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

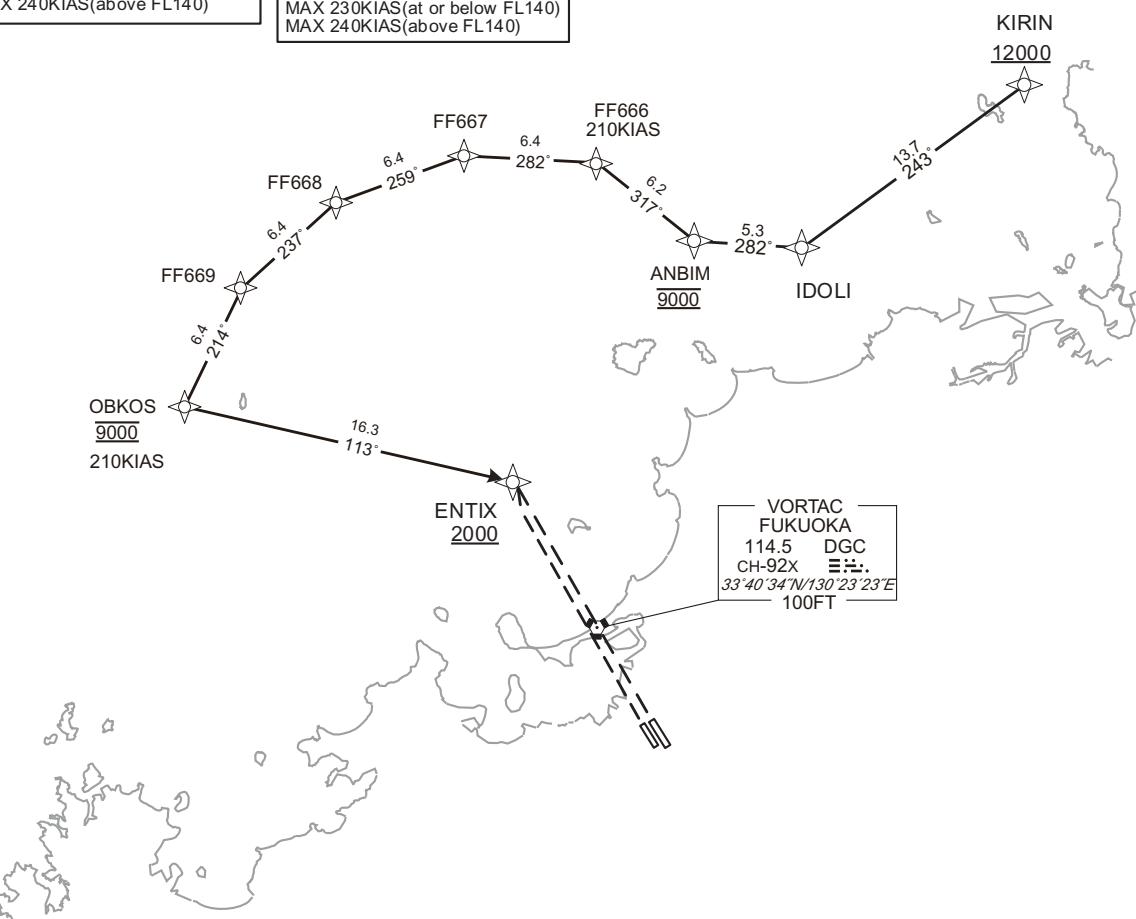
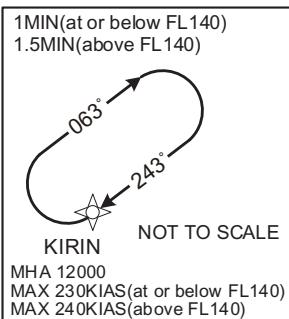
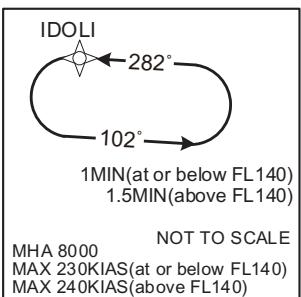
RNAV STAR RWY16L/16R

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	OBKOS	-	214 (206.3)	-8.0	6.4	-	9000	210	-	RNAV1
009	TF	ENTIX	-	113 (105.2)	-8.0	16.3	-	+2000	-	-	RNAV1

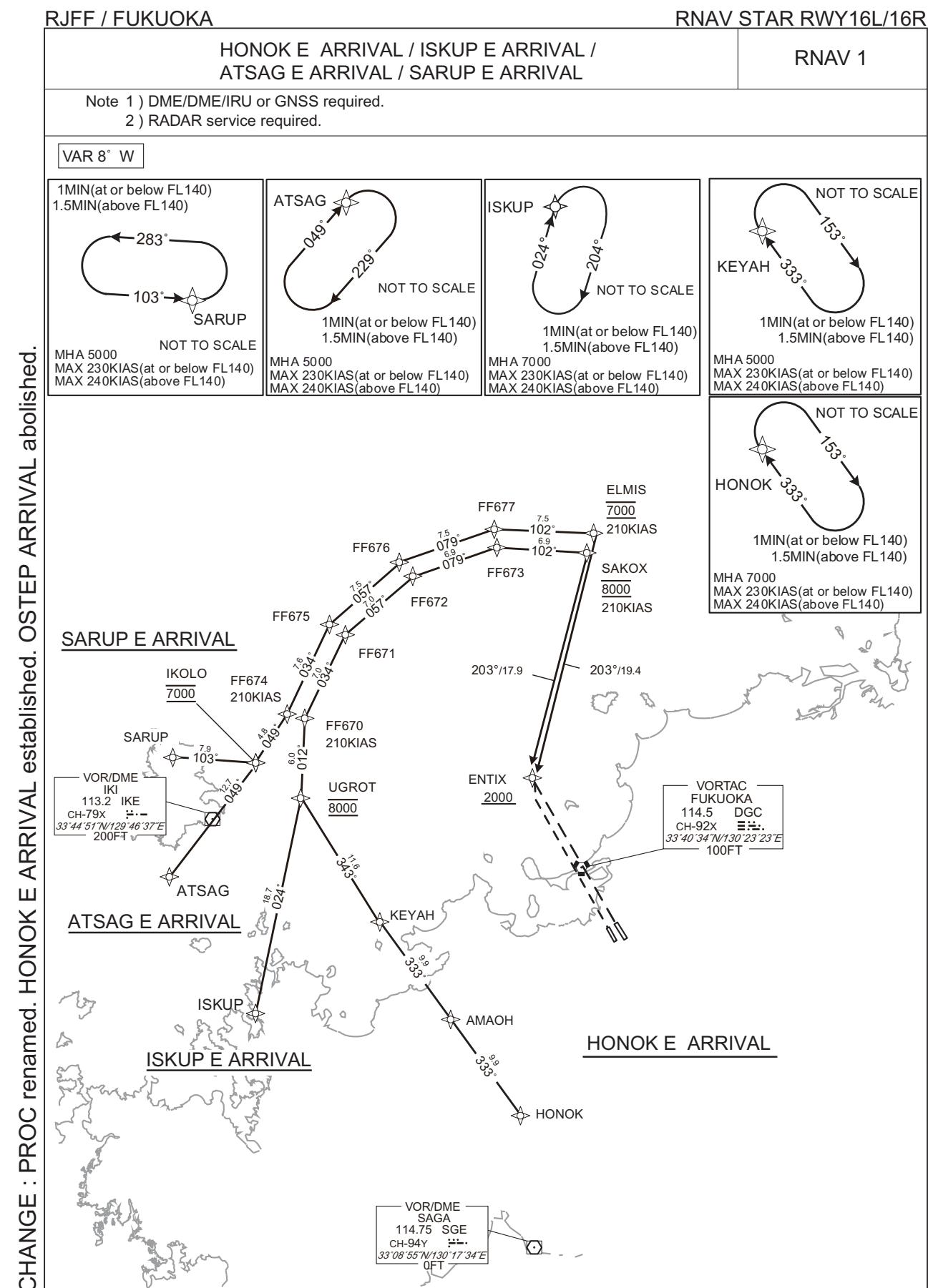
Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	KIRIN	243 (235.1)	-8.0	1.0(-14000) 1.5(+14001)	R	12000	-	-230(-14000) -240(+14001)	RNAV1
Hold	IDOLI	282 (274.3)	-8.0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

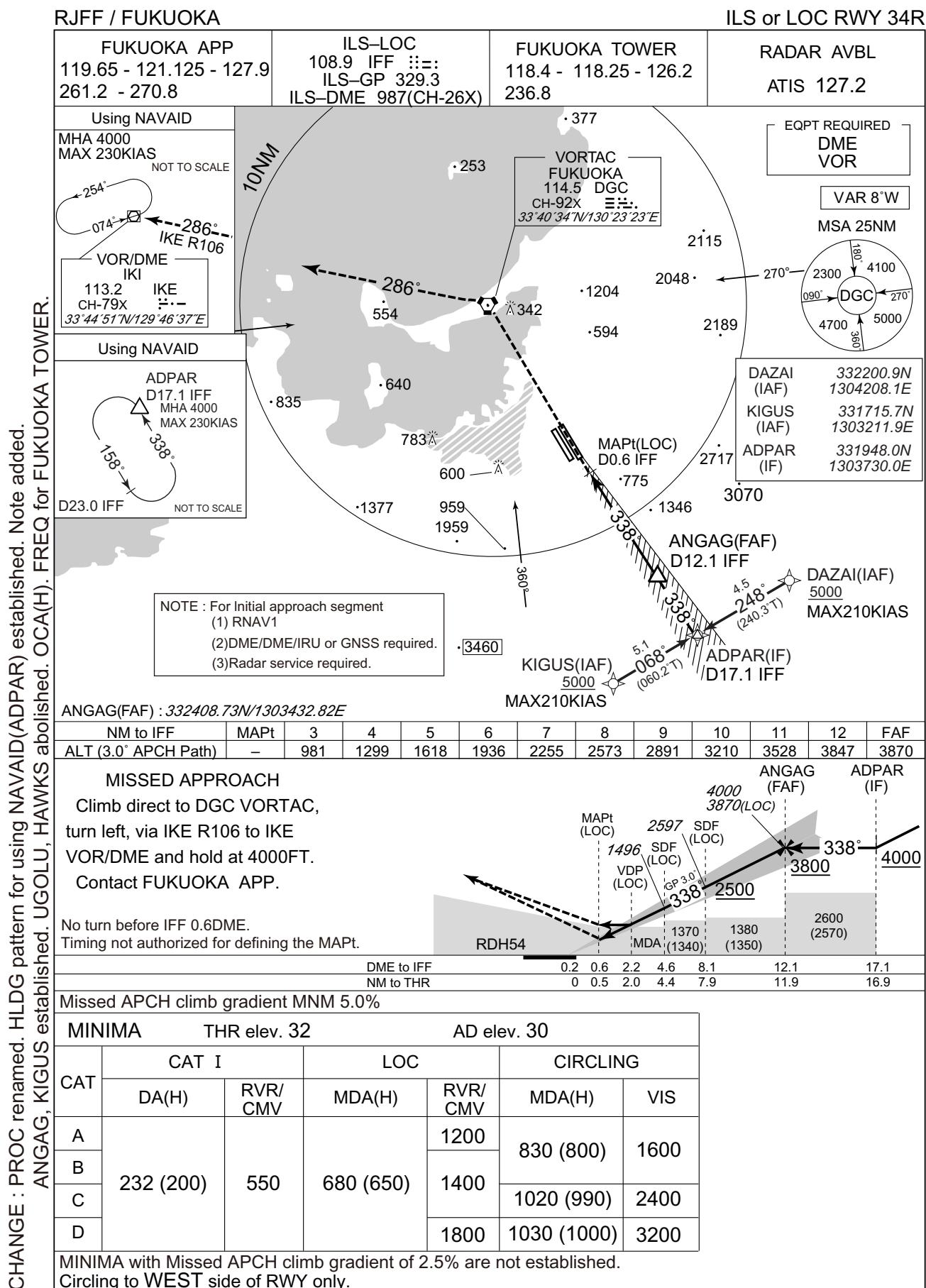
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Hold	SARUP	103 (094.9)	-8.0	1.0(-14000) 1.5(+14001)	L	5000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
HONOK	332006.3N / 1301647.8E	SAKOK	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

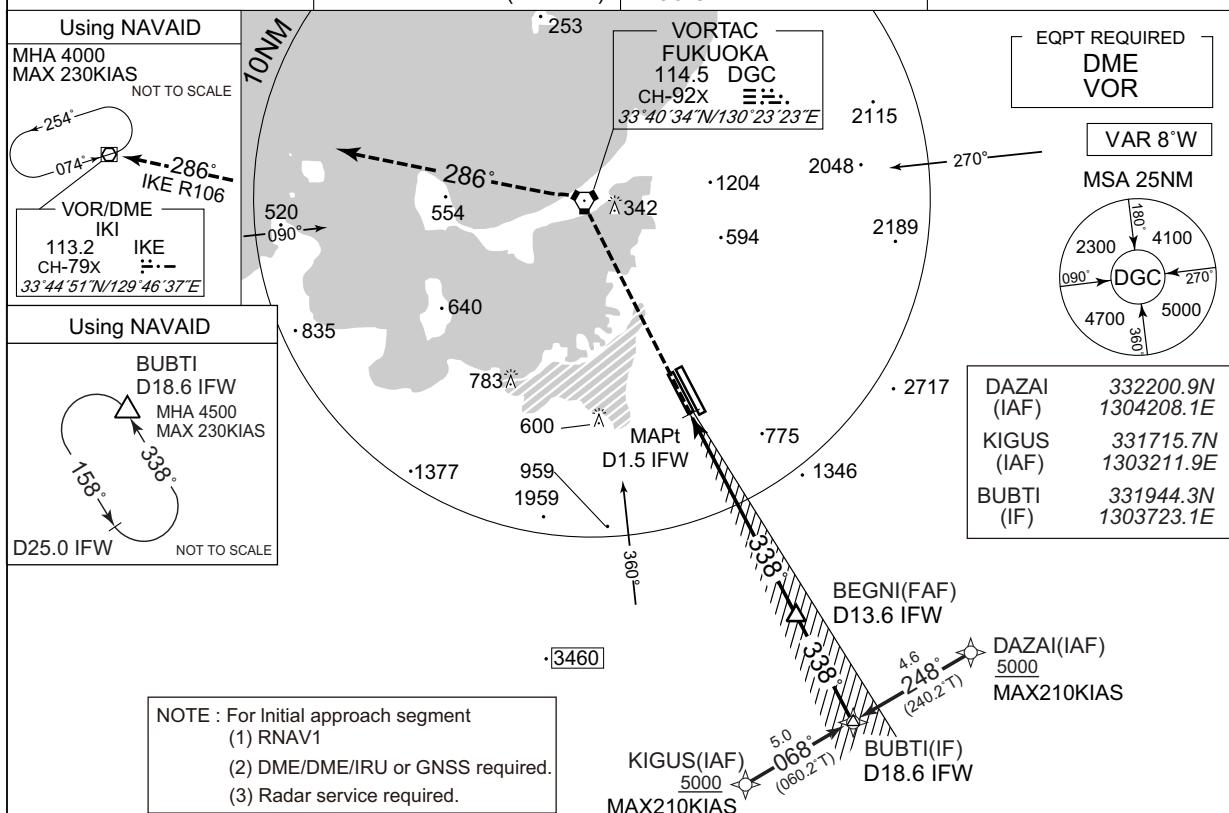
RJFF / FUKUOKA

FUKUOKA APP
119.65 - 121.125 - 127.9
261.2 - 270.8

LOC
110.35 IFW 11-
LOC-DME 1127(CH-40Y)

FUKUOKA TOWER
118.4 - 118.25 - 126.2
236.8

RADAR AVBL
ATIS 127 2



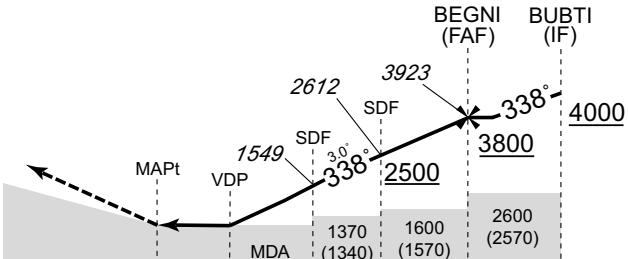
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NM to IFW	MAPt	3	4	5	6	7	8	9	10	11	12	13	FAF
ALT (3.0° APCH Path)	–	567	885	1204	1522	1841	2159	2478	2796	3114	3433	3751	3923

MISSED APPROACH

Climb direct to DGC VORTAC,
turn left, via IKE R106 to IKE
VOR/DME and hold at 4000FT.
Contact FUKUOKA APP.

No turn before MAPt.
Timing not authorized for defining the MAPt.

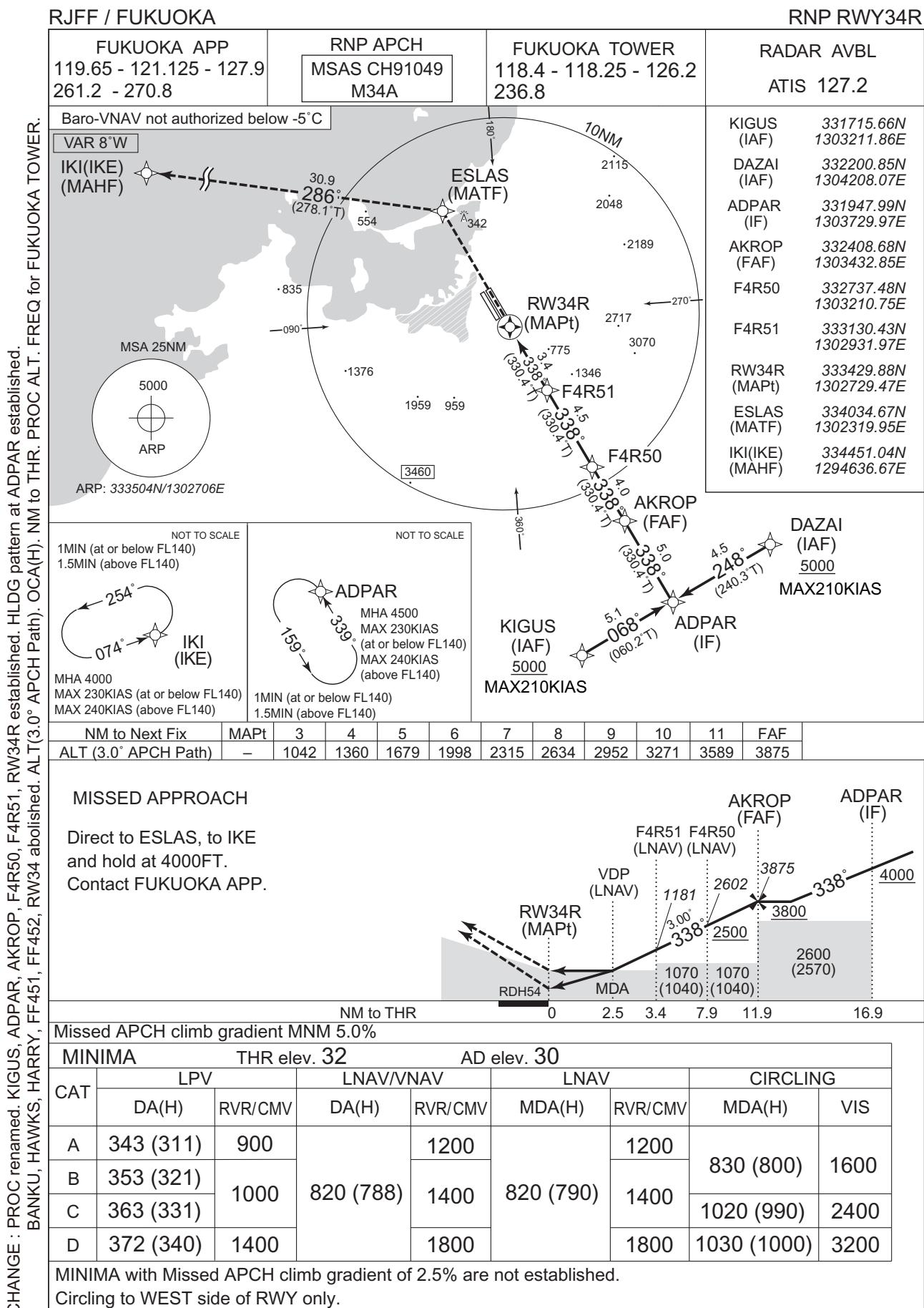


Missed APCH climb gradient MNM 5.0%

MINIMA		THR elev. 32		AD elev. 30
CAT			CIRCLING	
	MDA(H)	CMV	MDA(H)	VIS
A	560 (530)	1500	830 (800)	1600
B		2000	1020 (990)	2400
C			1030 (1000)	3200
D				

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

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

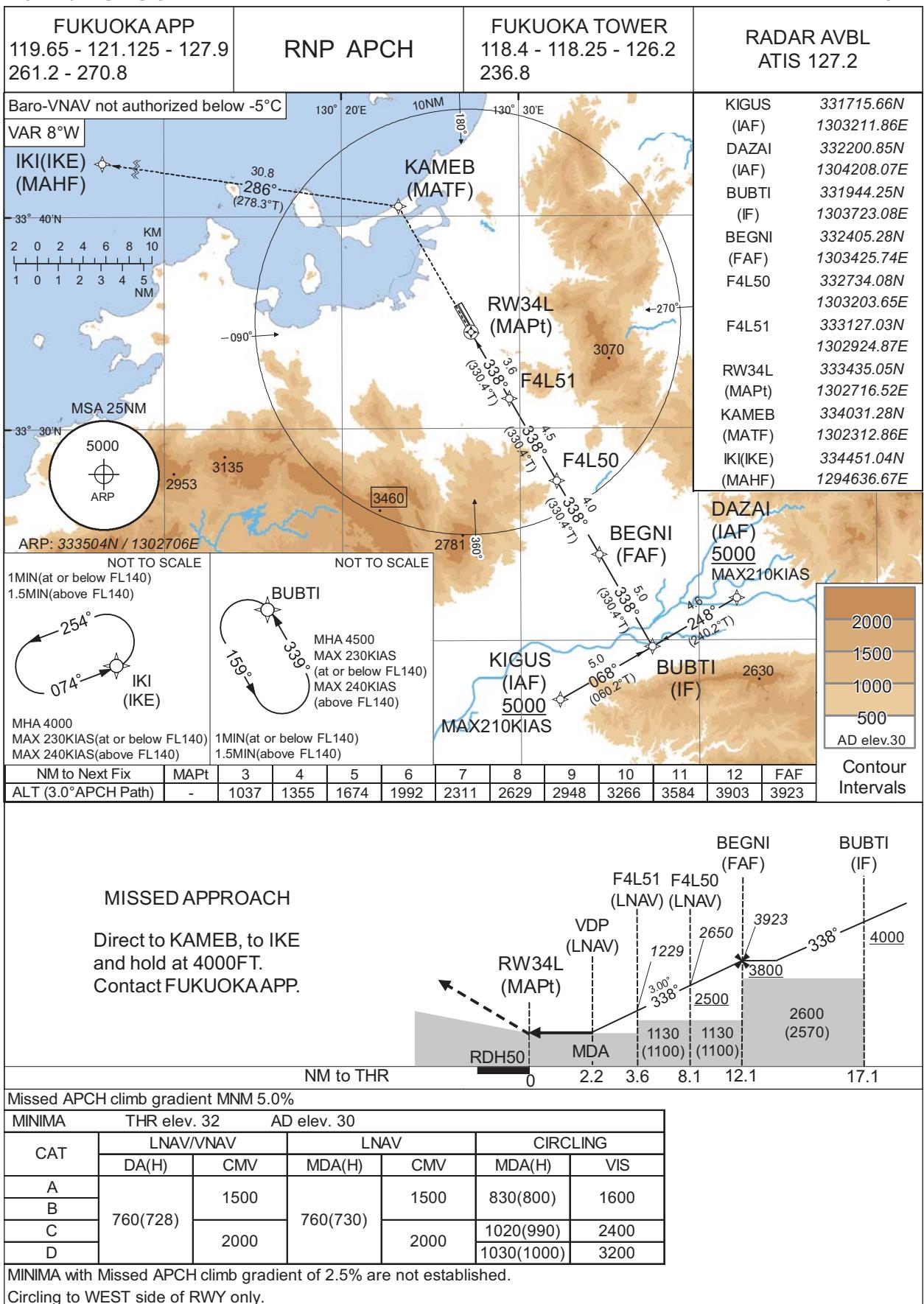
LTP/FTP orthometric height	9.8
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CHANGE : Runway and CRC remainder of FAS DATA BLOCK.

INSTRUMENT APPROACH CHART

RJFF / FUKUOKA

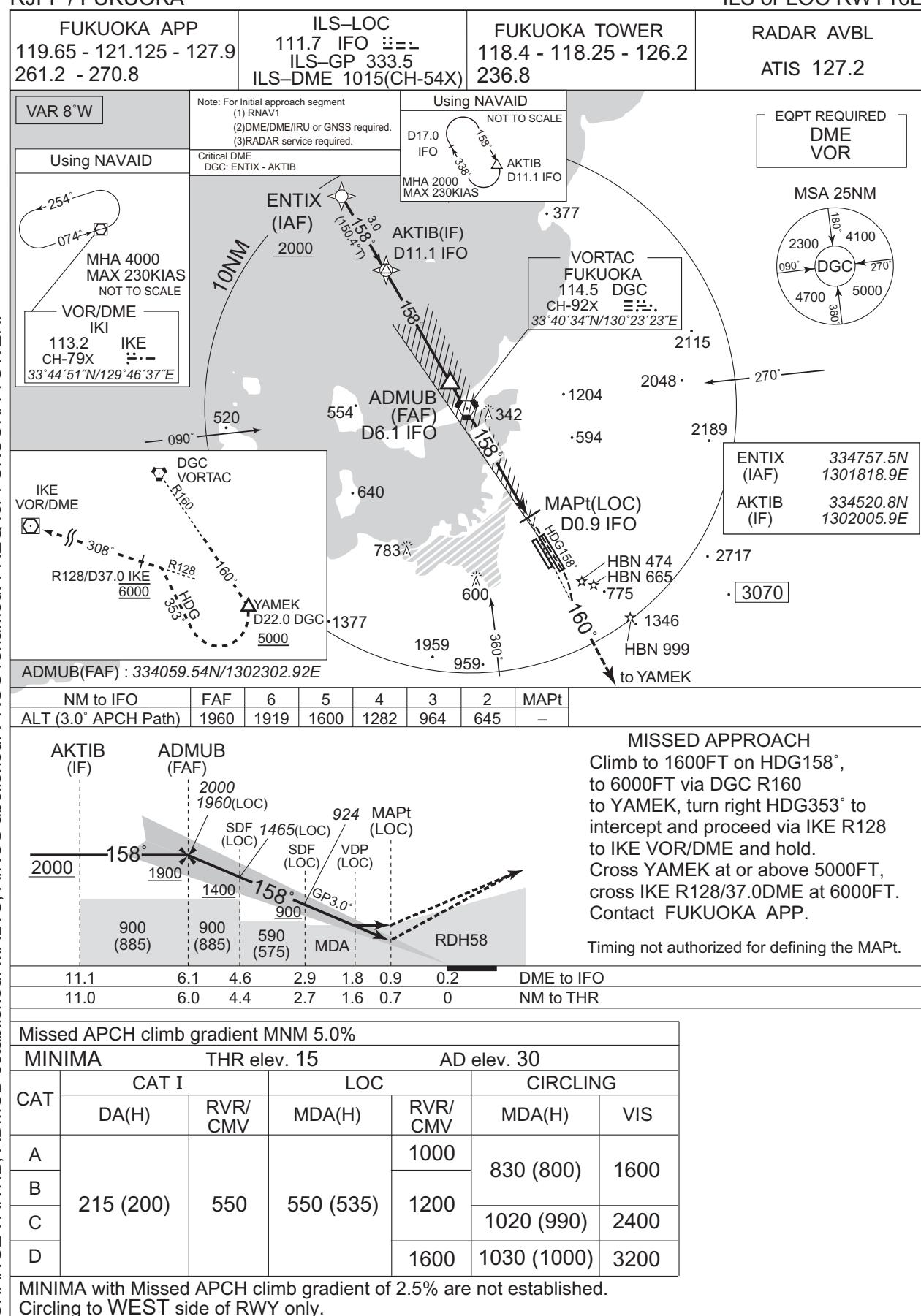
RNP RWY34L



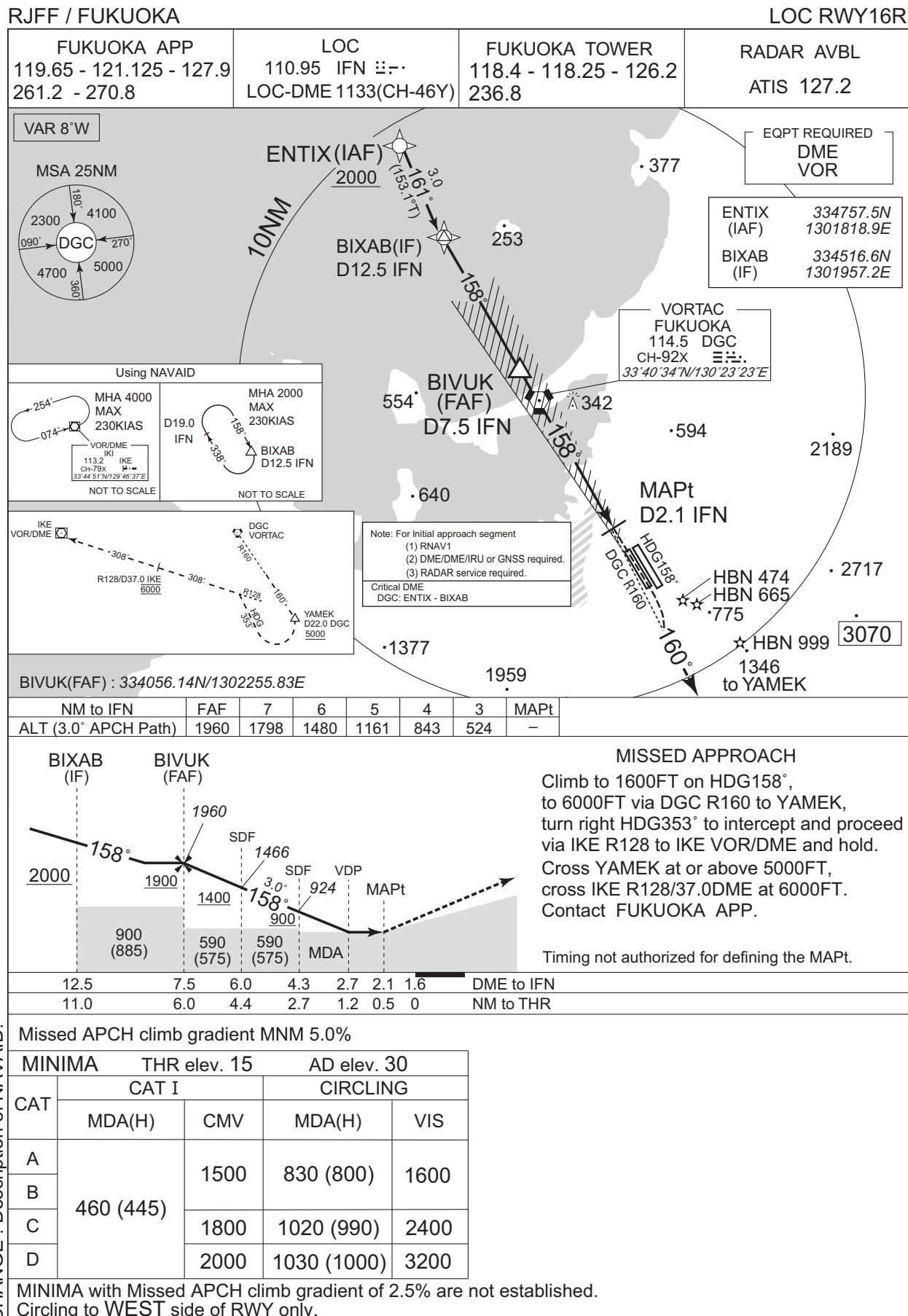
CHANGE : New PROC

INSTRUMENT APPROACH CHART

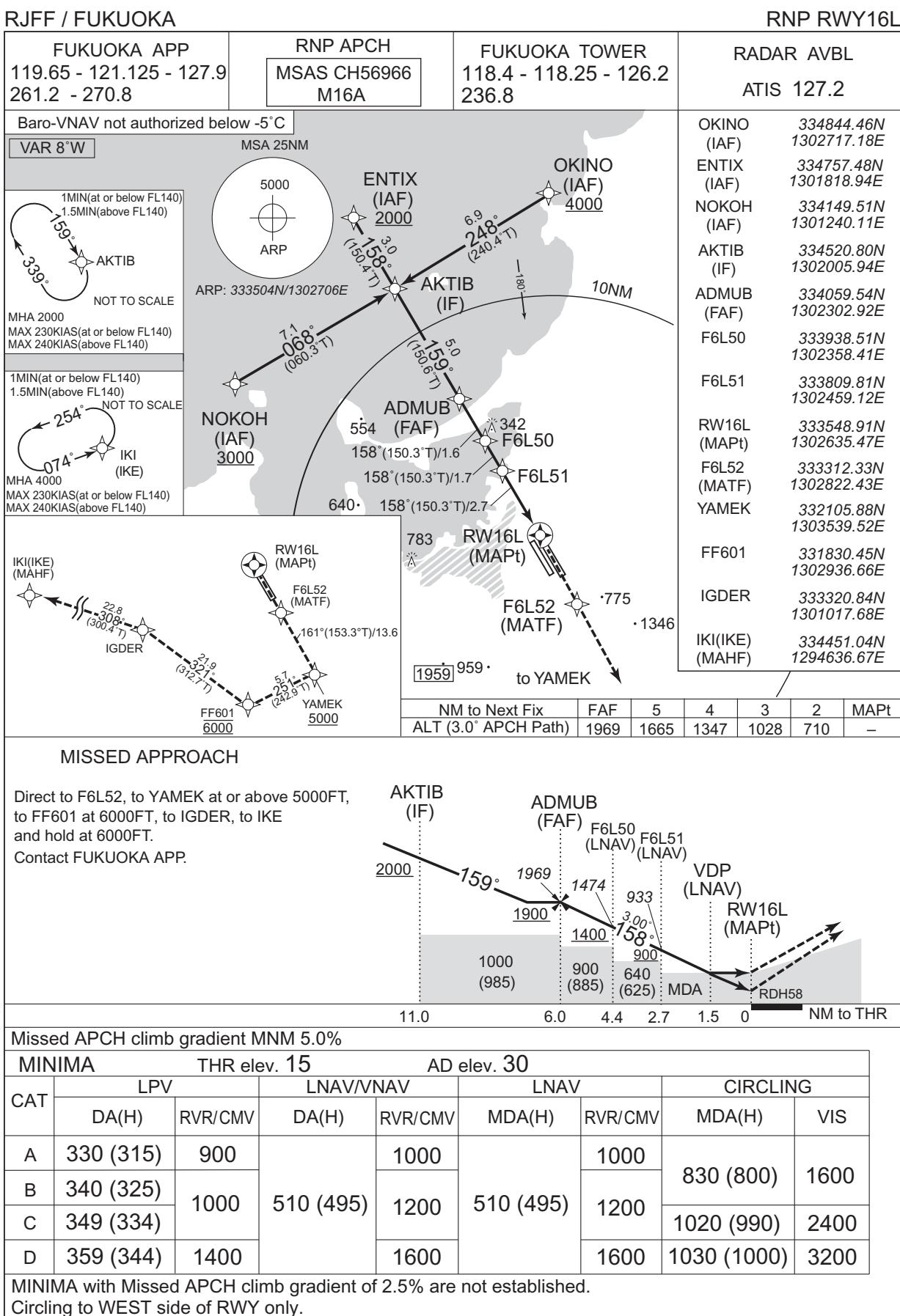
RJFF / FUKUOKA



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

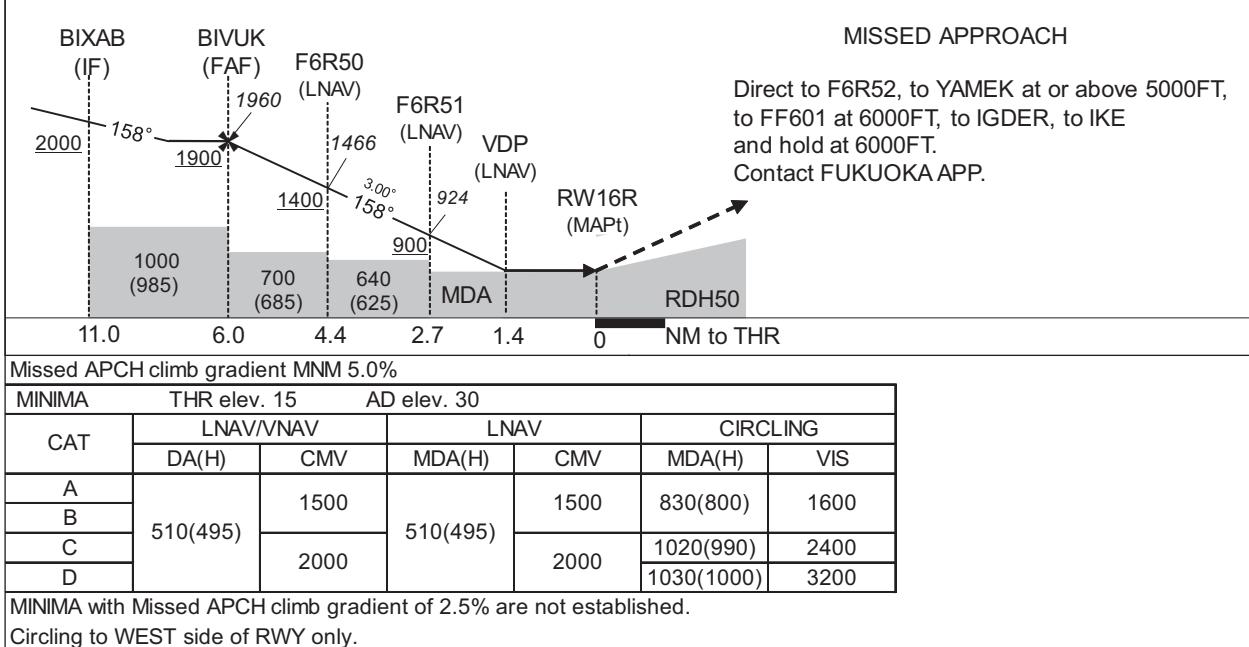
LTP/FTP orthometric height	4.5
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CHANGE : Runway and CRC remainder of FAS DATA BLOCK.

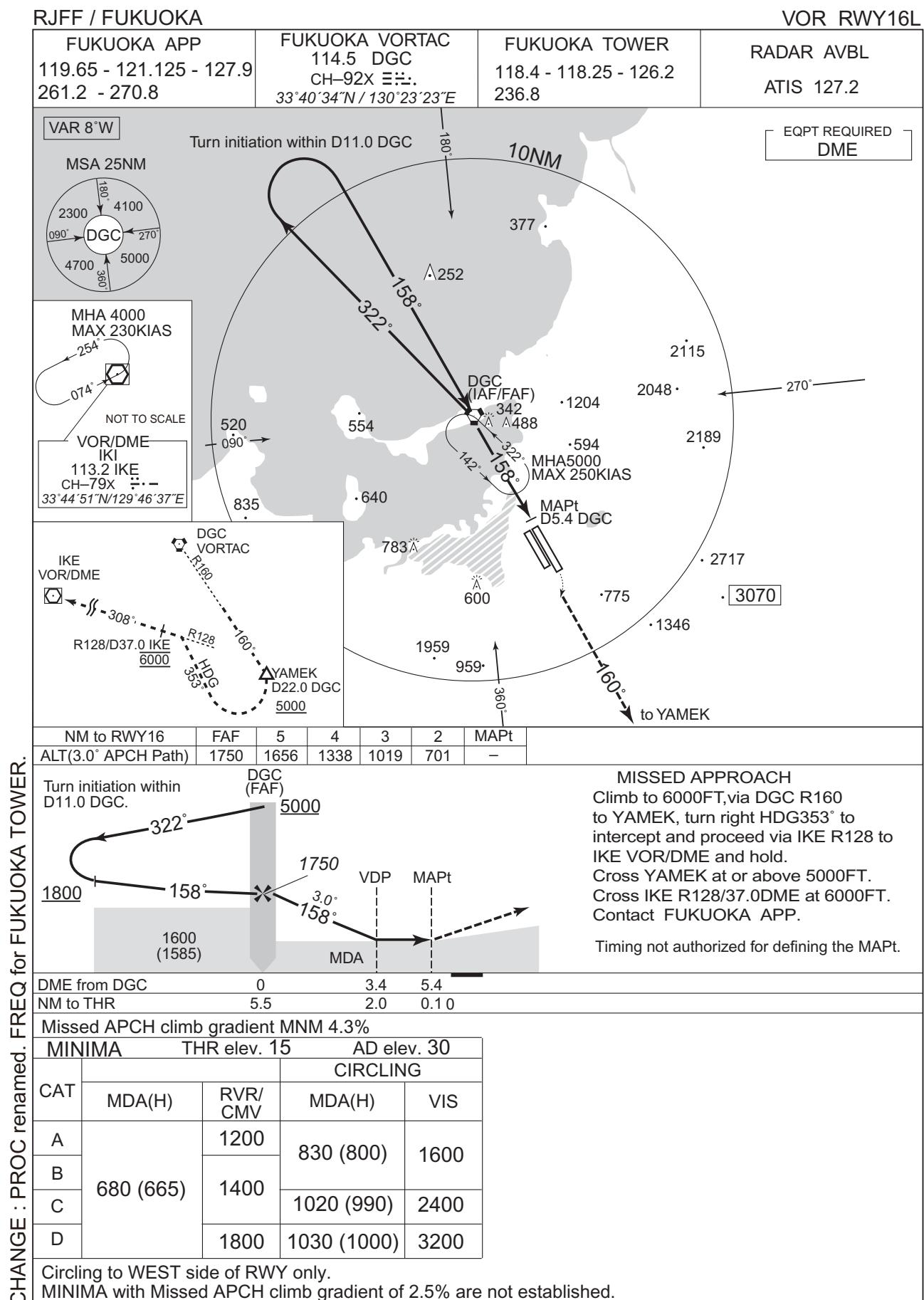
INSTRUMENT APPROACH CHART

RJFF / FUKUOKA

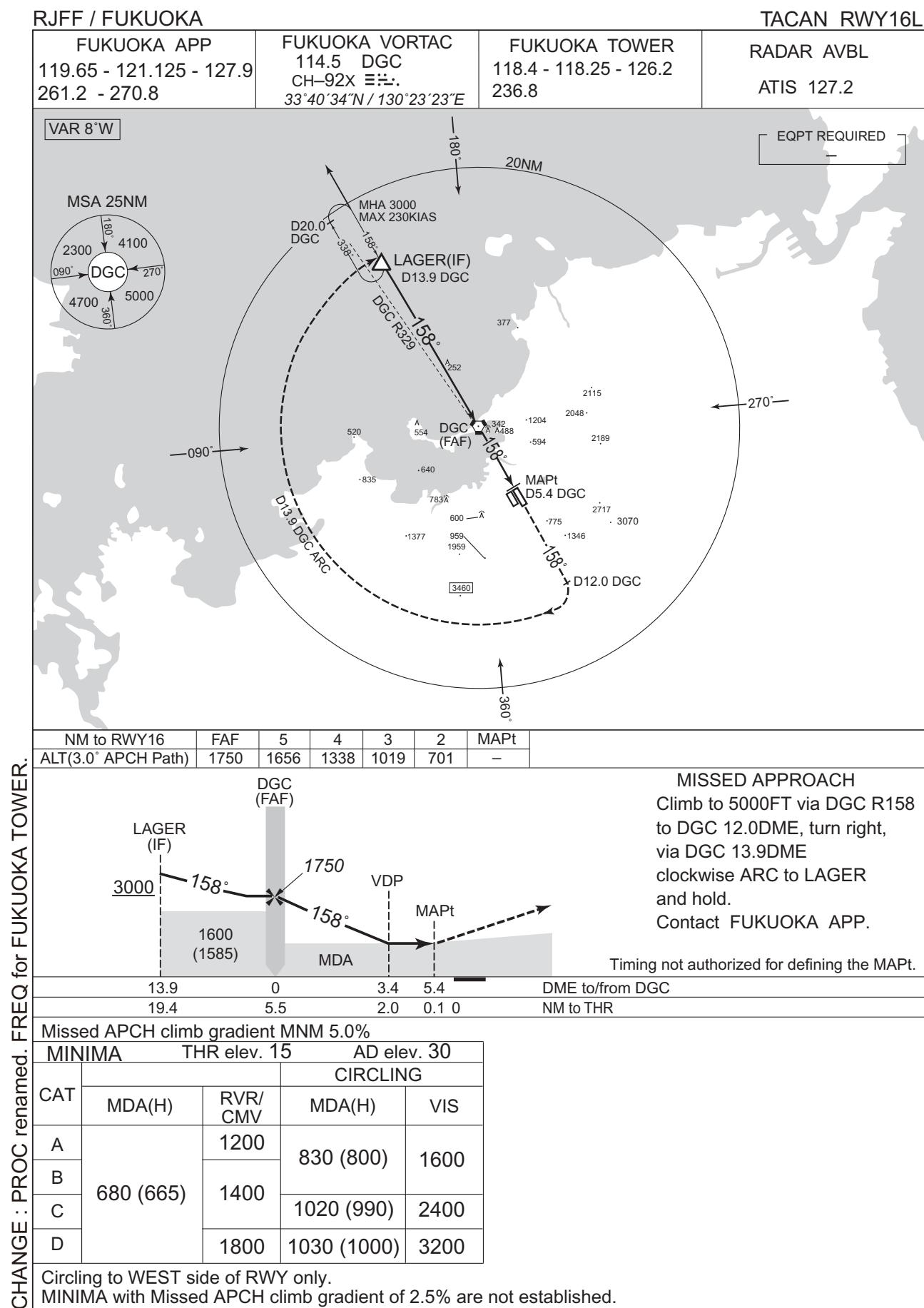
RNP RWY16R



INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



RJFF / FUKUOKA

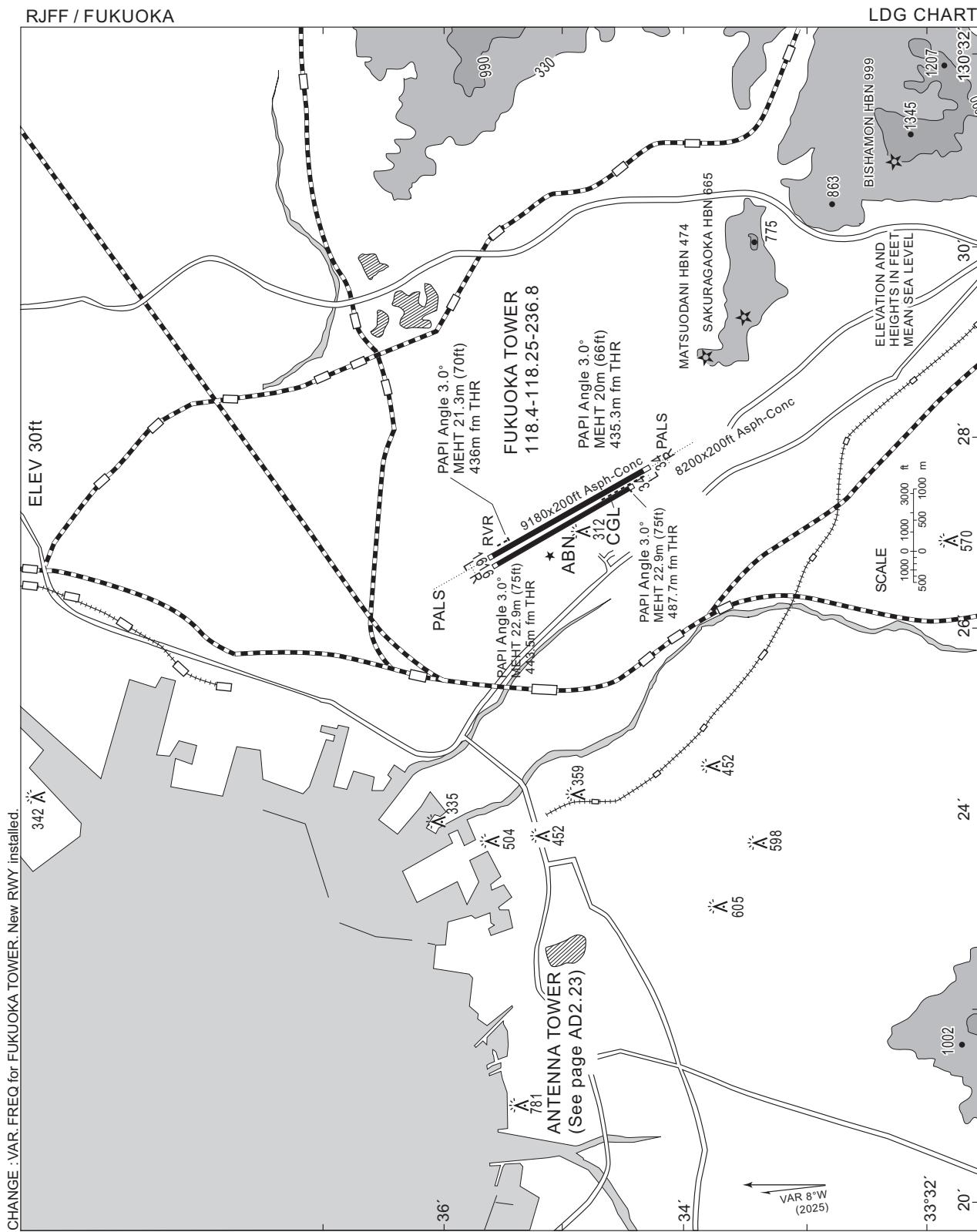
Visual REP



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

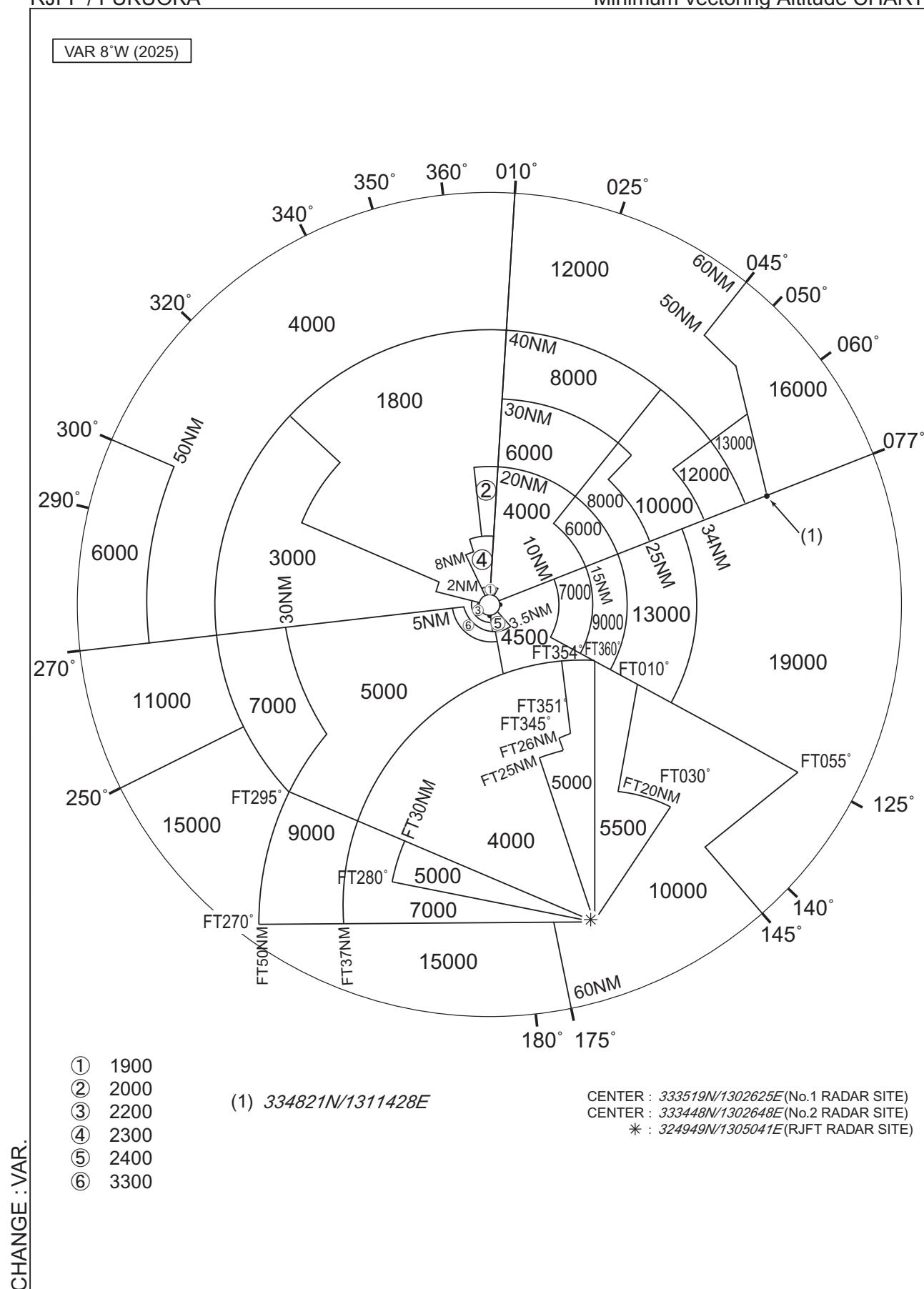
Call sign	BRG / DIST from ARP	Remarks
古賀 Koga	014°T / 8.4NM	高速道路インターチェンジ Interchange
長者原 Chojabaru	046°T / 2.3NM	ドーム型建造物 Dome
太宰府 Dazaifu	133°T / 6.4NM	ゴルフ場 Golf Course
三沢 Mitsusawa	153°T / 10.4NM	ゴルフ場 Golf Course
* 那珂川 Nakagawa	197°T / 5.8NM	松尾橋 Bridge
室見 Muromi	277°T / 5.4NM	室見川河口 River mouth
今津 Imazu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



INTENTIONALLY LEFT BLANK