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STANDARD DEPARTURE CHART - INSTRUMENT

RJFS / SAGA

SID

SAGA REVERSAL TWO DEPARTURE

RWY11 : Climb RWY HDG to 500FT, turn right,...

RWY29 : Climb RWY HDG to 500FT, turn left HDG 090° to intercept and proceed...
...via SGE R135 to 9.0DME, turn left, direct to SGE VOR/DME.

Cross SGE VOR/DME at 6000FT.

Note RWY29 : 3.5% climb gradient required up to 500FT.

ARIAKE REVERSAL TWO DEPARTURE

RWY11 : Climb RWY HDG to 500FT, turn right HDG 288°...

RWY29 : Climb RWY HDG to 500FT, turn left HDG 198°...

...to intercept and proceed via SGE R243 to 7.0DME, turn right, direct to SGE VOR/DME.
Cross SGE VOR/DME at or above 6000FT.

Note RWY29 : 3.5% climb gradient required up to 500FT.

ARIAKE REVERSAL
TWO DEPARTURESAGA REVERSAL
TWO DEPARTURE

STANDARD DEPARTURE CHART - INSTRUMENT

RJFS / SAGA

TRANSITION

KUMAMOTO TRANSITION

From over SGE VOR/DME, via SGE R195 to 18.0DME, turn left, via KUE R271 to KUE VOR/DME.

Cross SGE R195/6.0DME at 6000FT, cross SGE R195/18.0DME at or above 10000FT.

NAGASAKI TRANSITION

From over SGE VOR/DME, via SGE R195 to 18.0DME, turn right, direct to OLE VOR/DME.

Cross SGE R195/6.0DME at 6000FT, cross SGE R195/18.0DME at or above 10000FT.



STANDARD DEPARTURE CHART - INSTRUMENT

RJFS / SAGA

SID

KIKYU FIVE DEPARTURE

RWY11 : Climb RWY HDG to 500FT, turn right,...

RWY29 : Climb RWY HDG to 500FT, turn left HDG075° to intercept and proceed...
... via SGE R120 to 9.0DME, turn left HDG048° to intercept
and proceed via SGE R093 to KIKYU.

Cross KIKYU at or above 13000FT.

Note RWY29 : 3.5% climb gradient required up to 500FT.



STANDARD DEPARTURE CHART - INSTRUMENT

RJFS / SAGA

TRANSITION

MUSASHI TRANSITION

From over KIKYU, via TFE R253 to TFE VOR/DME.

Cross TFE R253/38.0DME at or above FL140, cross TFE R253/31.0DME at or above FL170.



STANDARD DEPARTURE CHART - INSTRUMENT

RJFS / SAGA

RNAV TRANSITION

| OOITA TRANSITION | | | RNAV1 |
|---|-----------------------|---|-------|
| NOTE 1) DME/DME/IRU or GNSS required. 2) RADAR service required. | Critical DME | — | |
| | DME GAP | — | |
| | Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 | |

VAR 7° W(2016)

OOITA TRANSITION

From KIKYU at or above 13000FT, to WAITA at or above FL170, to OOITA.

| 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 | — | — | -7.2 | — | — | +13000 | — | — | RNAV1 |
| 002 | TF | WAITA | — | 094 (086.3) | -7.2 | 8.1 | — | +FL170 | — | — | RNAV1 |
| 003 | TF | OOITA | — | 094 (086.4) | -7.2 | 30.9 | — | — | — | — | RNAV1 |

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STANDARD DEPARTURE CHART - INSTRUMENT



STANDARD DEPARTURE CHART - INSTRUMENT

RJFS / SAGA

RNAV SID

BALLOON ONE DEPARTURE

RWY11

| 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 | — | — | 106 (099.3) | -7.2 | — | — | +500 | — | — | Basic RNP1 |
| 002 | CF | FS100 | — | 120 (113.2) | -7.2 | — | — | — | — | — | Basic RNP1 |
| 003 | TF | KIKYU | — | 084 (076.8) | -7.2 | 24.3 | — | +13000 | — | — | Basic RNP1 |

RWY29

| 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 | — | — | 286 (279.3) | -7.2 | — | — | +500 | — | — | Basic RNP1 |
| 002 | DF | FS900 | — | — | -7.2 | — | L | — | — | — | Basic RNP1 |
| 003 | TF | FS100 | — | 089 (081.8) | -7.2 | 8.4 | — | — | — | — | Basic RNP1 |
| 004 | TF | KIKYU | — | 084 (076.8) | -7.2 | 24.3 | — | +13000 | — | — | Basic RNP1 |

STANDARD DEPARTURE CHART - INSTRUMENT

RJFS / SAGA

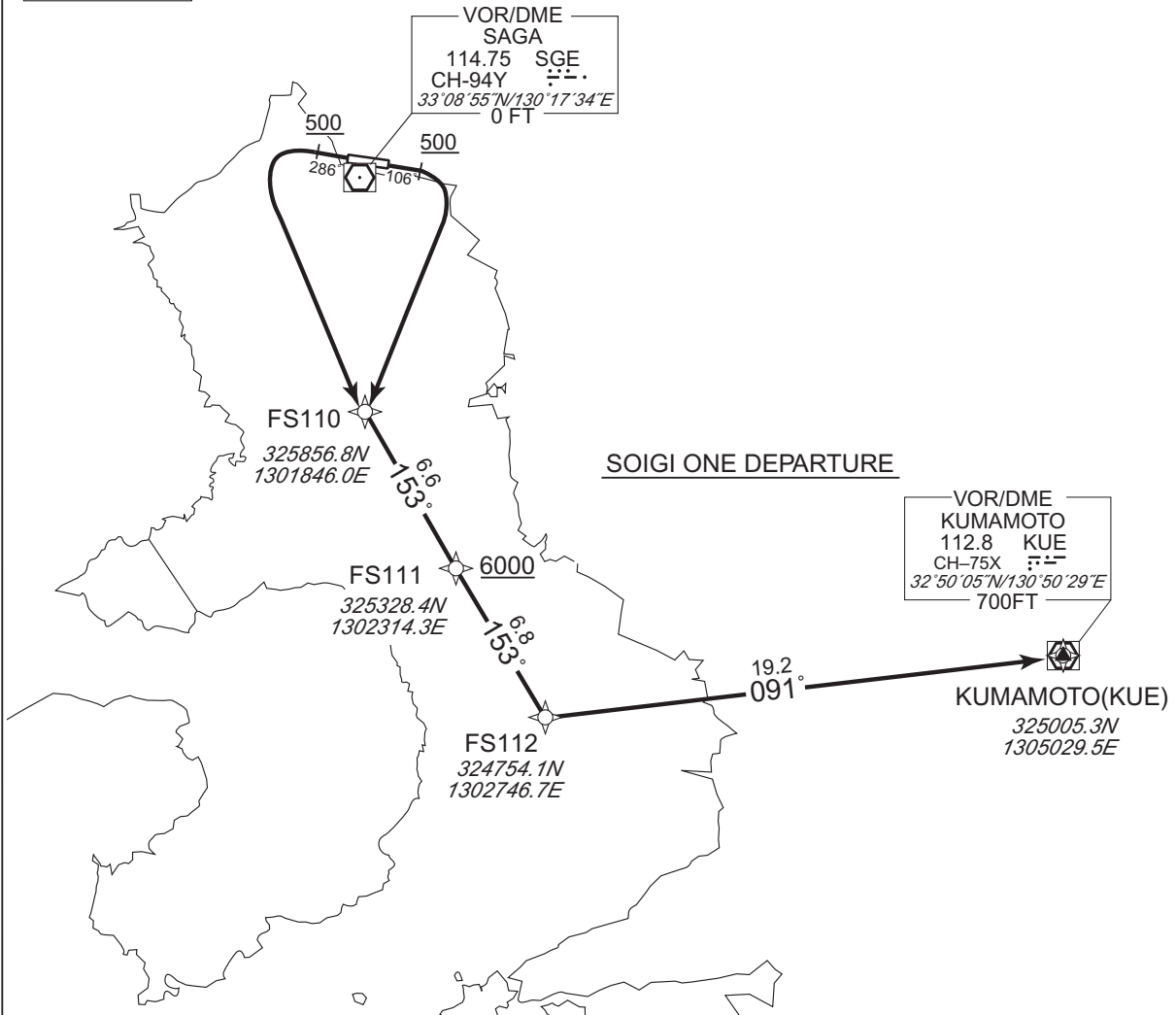
RNAV SID

SOIGI ONE DEPARTURE

Basic RNP1

Note GNSS required.

VAR 7° W(2016)



SOIGI ONE DEPARTURE

RWY11 : Climb on HDG106° at or above 500FT, turn right direct to FS110, to FS111 at or above 6000FT, to FS112, to KUE.

RWY29 : Climb on HDG286° at or above 500FT, turn left direct to FS110, to FS111 at or above 6000FT, to FS112, to KUE.

NOTE RWY29 : 3.5% climb gradient required up to 500FT.

STANDARD DEPARTURE CHART - INSTRUMENT

RJFS / SAGA

RNAV SID

SOIGI ONE DEPARTURE

RWY11

| 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 | — | — | 106 (099.3) | -7.2 | — | — | +500 | — | — | Basic RNP1 |
| 002 | DF | FS110 | — | — | -7.2 | — | R | — | — | — | Basic RNP1 |
| 003 | TF | FS111 | — | 153 (145.5) | -7.2 | 6.6 | — | +6000 | — | — | Basic RNP1 |
| 004 | TF | FS112 | — | 153 (145.6) | -7.2 | 6.8 | — | — | — | — | Basic RNP1 |
| 005 | TF | KUE | — | 091 (083.4) | -7.2 | 19.2 | — | — | — | — | Basic RNP1 |

RWY29

| 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 | — | — | 286 (279.3) | -7.2 | — | — | +500 | — | — | Basic RNP1 |
| 002 | DF | FS110 | — | — | -7.2 | — | L | — | — | — | Basic RNP1 |
| 003 | TF | FS111 | — | 153 (145.5) | -7.2 | 6.6 | — | +6000 | — | — | Basic RNP1 |
| 004 | TF | FS112 | — | 153 (145.6) | -7.2 | 6.8 | — | — | — | — | Basic RNP1 |
| 005 | TF | KUE | — | 091 (083.4) | -7.2 | 19.2 | — | — | — | — | Basic RNP1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJFS / SAGA

STAR

IRPIN NORTH ARRIVAL

From over IRPIN, via OLE R102 to MILEP, via SGE R194 to SGE VOR/DME via UGAMU.

Cross MILEP at 6000FT, cross SGE VOR/DME at or above 5000FT.

IRPIN SOUTH ARRIVAL

From over IRPIN, via OLE R102 to MILEP.

Cross MILEP at 6000FT.

CHANGE: New PROC



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CHANGE : ATC callsign changed (FUKUOKA DEP→FUKUOKA RADAR). ATC FREQ changed.

ILS or LOC RWY29



INSTRUMENT APPROACH CHART

RJFS / SAGA

VOR RWY29

FUKUOKA RADAR
119.7 – 279.2SAGA VOR/DME
114.75 SGE
CH-94Y
33°08'55"N/130°17'34"ESAGA RADIO
118.025 – 126.2
(2130–2300(UTC)
1030–1500
SAGA REMOTE
118.025

NO RADAR

VAR 7°W (2014)

3431

1647

EQPT REQUIRED
DME

1328

1194

MSA 25NM



1703

1122

1345

MHA 5000
MAX 210KIAS

3529

CAUTION:
After HIGH-STATION(SGE VOR/DME),
maintain 5000FT or above until
intercepting outbound SGE R118MOSSA(FAF)
D6.0 SGE

204

282°

282°

118°

135°

D9.0 SGE

Turn initiation within D10.0 SGE
MAX Turning Speed 190KIAS

1643

1046

1394

784

1469

282°

HDG090°

R135

MAPt

D1.0 SGE

A153

282°

118°

135°

D9.0 SGE

Turn initiation within D10.0 SGE
MAX Turning Speed 190KIAS

1643

1046

1394

784

1469

282°

HDG090°

R135

MAPt

D1.0 SGE

A153

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MAX Turning Speed 190KIAS

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Turn initiation within D10.0 SGE
MAX Turning Speed 190KIAS

1643

1046

1394

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1469

282°

HDG090°

R135

MAPt

D1.0 SGE

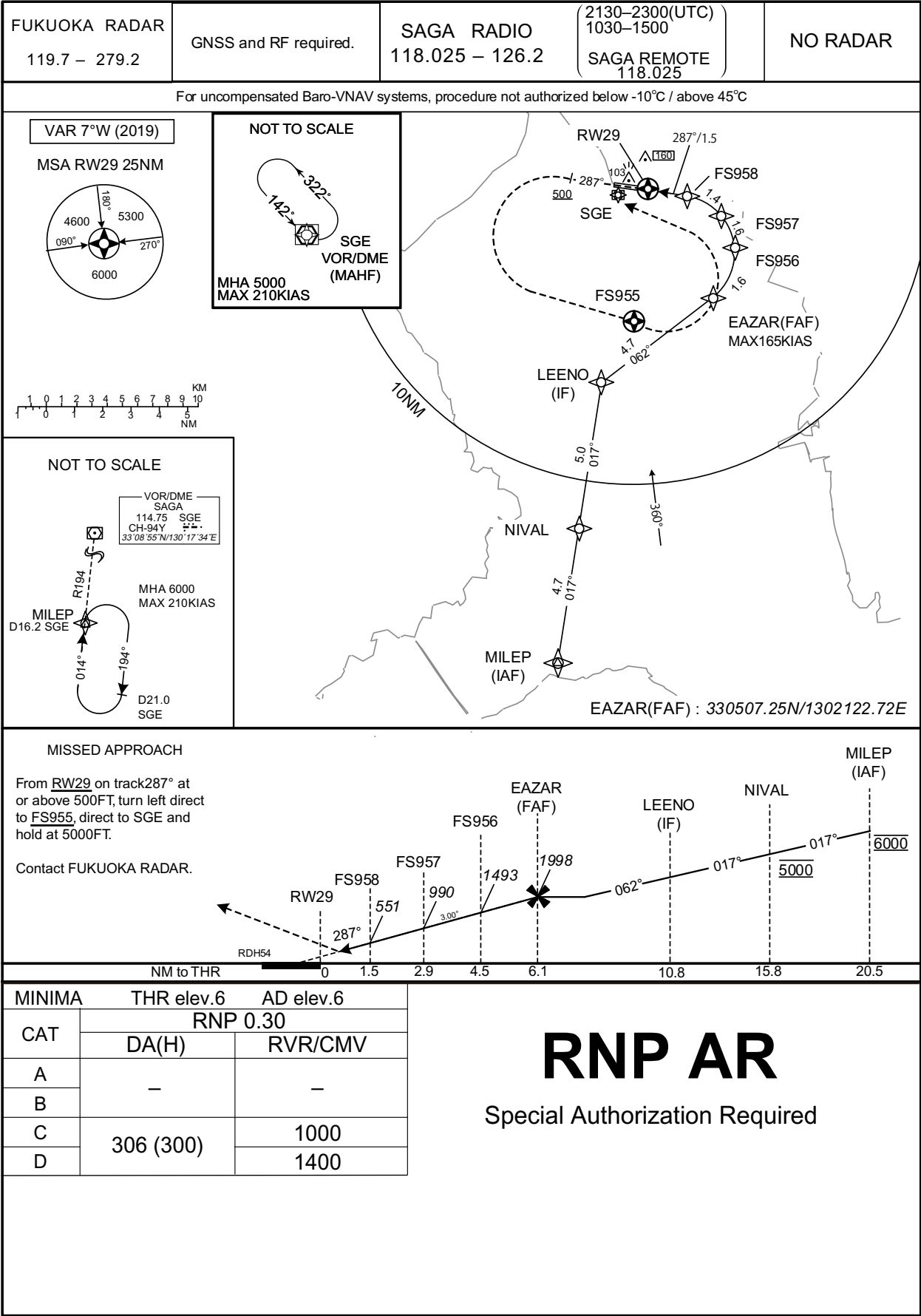
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJFS / SAGA

RNAV(RNP) RWY29



CHANGE : ATC callsign changed (FUKUOKA DEP→FUKUOKA RADAR). ATC FREQ changed.

INSTRUMENT APPROACH CHART

RJFS / SAGA

RNAV(RNP) RWY29

RNAV(RNP) RWY29Coding Table

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | VPA/ RDH (°/FT) | RNP Value |
|---------------|------------------------------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|-----------------|-----------|
| 001 | IF | MILEP | - | - | -7.5 | - | - | 6000 | - | - | - |
| 002 | TF | NIVAL | - | 017 (009.2) | -7.5 | 4.7 | - | 5000 | - | - | 0.3 |
| 003 | TF | LEENO | - | 017 (009.2) | -7.5 | 5.0 | - | - | - | - | 0.3 |
| 004 | TF | EAZAR | - | 062 (054.2) | -7.5 | 4.7 | - | 1998 | -165 | - | 0.3 |
| 005 | RF Center: FSRF8 r=2.02NM | FS956 | - | - | -7.5 | 1.6 | L | 1493 | - | -3.00 | 0.3 |
| 006 | RF Center: FSRF9 r=1.98NM | FS957 | - | - | -7.5 | 1.6 | L | 990 | - | -3.00 | 0.3 |
| 007 | RF Center: FSRF0 r=1.75NM | FS958 | - | - | -7.5 | 1.4 | L | 551 | - | -3.00 | 0.3 |
| 008 | TF | RW29 | Y | 287 (279.3) | -7.5 | 1.5 | - | 60 | - | -3.00/54 | 0.3 |
| 009 | FA | - | - | 287 (279.3) | -7.5 | - | - | +500 | - | - | 1.0 |
| 010 | DF | FS955 | Y | - | -7.5 | - | L | - | - | - | 1.0 |
| 011 | DF | SGE | - | - | -7.5 | - | L | 5000 | - | - | 1.0 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|------------------------|--------------------------|------------------------|
| MILEP | 325250.49N/1301501.22E | FSRF8 | 330645.72N/1301958.78E |
| NIVAL | 325726.55N/1301554.33E | FSRF9 | 330646.63N/1302001.15E |
| LEENO | 330223.31N/1301651.53E | FSRF0 | 330654.73N/1302014.52E |
| EAZAR | 330507.25N/1302122.72E | | |
| FS956 | 330626.19N/1302220.91E | | |
| FS957 | 330756.35N/1302156.32E | | |
| FS958 | 330838.87N/1302034.72E | | |
| RW29 | 330853.77N/1301846.08E | | |
| FS955 | 330424.77N/1301815.75E | | |
| SGE | 330855.03N/1301734.43E | | |

CHANGE: Update

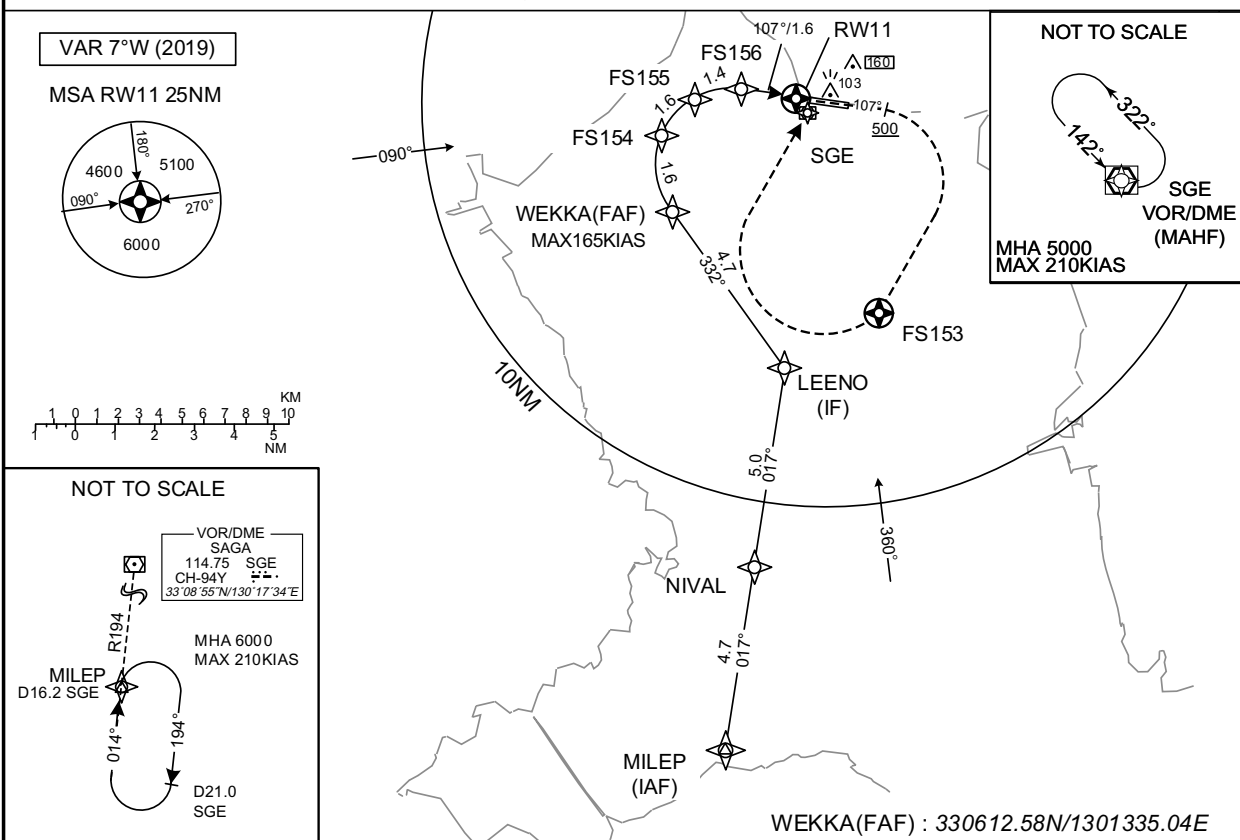
INSTRUMENT APPROACH CHART

RJFS / SAGA

RNAV(RNP) RWY11

| | | | | |
|--------------------------------|-----------------------|-------------------------------|--|----------|
| FUKUOKA RADAR 119.7 – 279.2 | GNSS and RF required. | SAGA RADIO 118.025 – 126.2 | (2130–2300(UTC) 1030–1500 SAGA REMOTE 118.025 | NO RADAR |
|--------------------------------|-----------------------|-------------------------------|--|----------|

For uncompensated Baro-VNAV systems, procedure not authorized below -10°C / above 45°C



Missed APCH climb gradient MNM 3.0%

| MINIMA | THR elev.6 | AD elev.6 |
|--------|------------|-----------|
| CAT | RNP 0.30 | |
| | DA(H) | CMV |
| A | — | — |
| B | — | — |
| C | 306 (300) | 1400 |
| D | — | 1600 |

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

RNP AR

Special Authorization Required

CHANGE : ATC callsign changed (FUKUOKA DEP→FUKUOKA RADAR). ATC FREQ changed.

INSTRUMENT APPROACH CHART

RJFS / SAGA

RNAV(RNP) RWY11

RNAV(RNP) RWY11Coding Table

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | VPA/RDH (°/FT) | RNP Value |
|---------------|------------------------------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|-----------|
| 001 | IF | MILEP | - | - | -7.5 | - | - | 6000 | - | - | - |
| 002 | TF | NIVAL | - | 017 (009.2) | -7.5 | 4.7 | - | 5000 | - | - | 0.3 |
| 003 | TF | LEENO | - | 017 (009.2) | -7.5 | 5.0 | - | - | - | - | 0.3 |
| 004 | TF | WEKKA | - | 332 (324.3) | -7.5 | 4.7 | - | 1990 | -165 | - | 0.3 |
| 005 | RF Center: FSRF5 r=2.02NM | FS154 | - | - | -7.5 | 1.6 | R | 1486 | - | -3.00 | 0.3 |
| 006 | RF Center: FSRF6 r=1.98NM | FS155 | - | - | -7.5 | 1.6 | R | 989 | - | -3.00 | 0.3 |
| 007 | RF Center: FSRF7 r=1.77NM | FS156 | - | - | -7.5 | 1.4 | R | 550 | - | -3.00 | 0.3 |
| 008 | TF | RW11 | Y | 107 (099.3) | -7.5 | 1.6 | - | 56 | - | -3.00/50 | 0.3 |
| 009 | FA | - | - | 107 (099.3) | -7.5 | - | - | +500 | - | - | 1.0 |
| 010 | DF | FS153 | Y | - | -7.5 | - | R | - | - | - | 1.0 |
| 011 | DF | SGE | - | - | -7.5 | - | R | 5000 | - | - | 1.0 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|------------------------|--------------------------|------------------------|
| MILEP | 325250.49N/1301501.22E | FSRF5 | 330723.51N/1301531.82E |
| NIVAL | 325726.55N/1301554.33E | FSRF6 | 330723.80N/1301529.68E |
| LEENO | 330223.31N/1301651.53E | FSRF7 | 330735.05N/1301520.05E |
| WEKKA | 330612.58N/1301335.04E | | |
| FS154 | 330742.91N/1301309.63E | | |
| FS155 | 330900.65N/1301406.71E | | |
| FS156 | 330919.21N/1301540.15E | | |
| RW11 | 330904.20N/1301729.91E | | |
| FS153 | 330340.13N/1301934.46E | | |
| SGE | 330855.03N/1301734.43E | | |

CHANGE: Update

INSTRUMENT APPROACH CHART

RJFS/SAGA

VOR A



CHANGE : ATC callsign changed (FUKUOKA DEP→FUKUOKA RADAR). ATC FREQ changed.

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJFS/SAGA

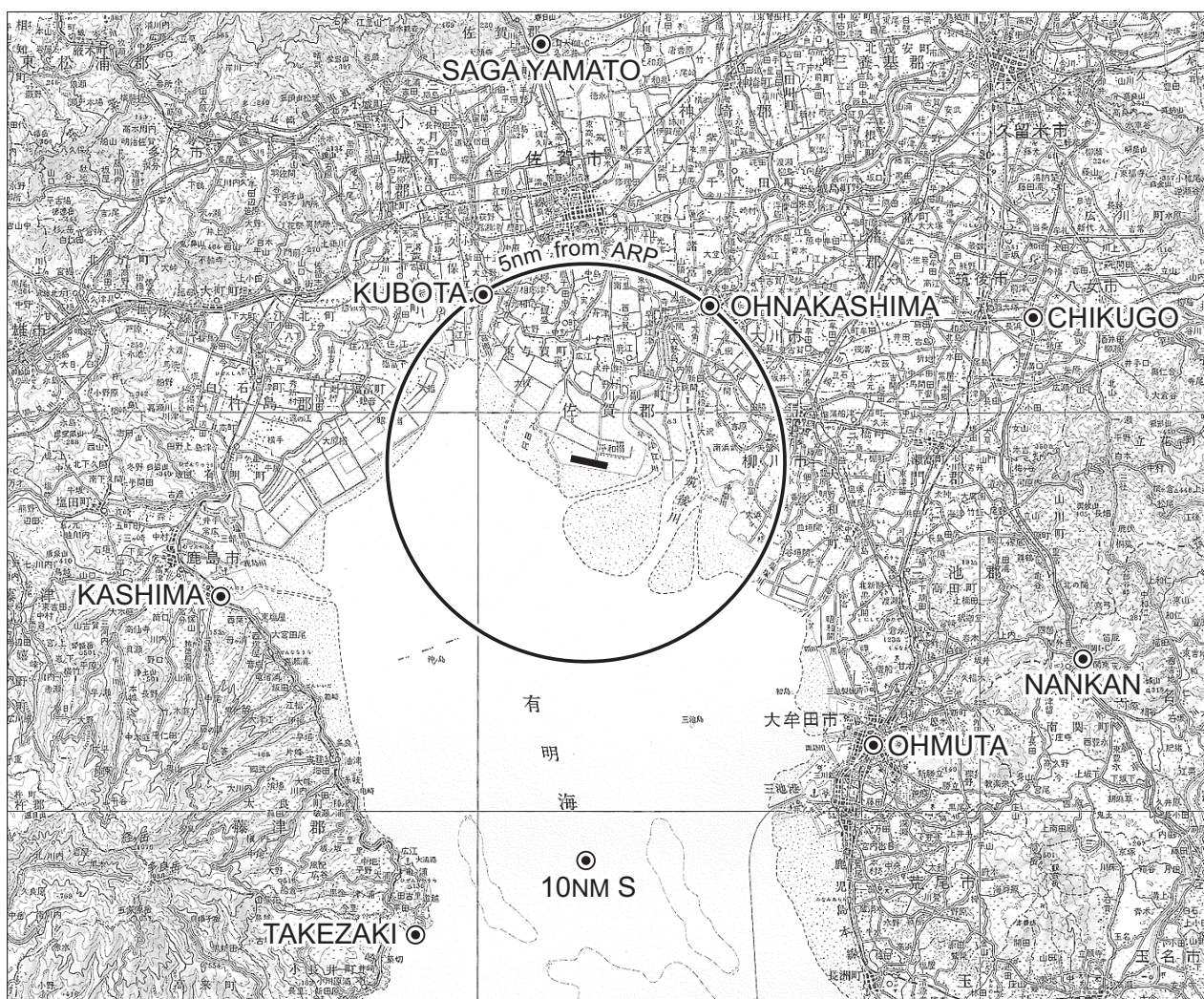
VOR C



CHANGE : ATC callsign changed (FUKUOKA DEP→FUKUOKA RADAR). ATC FREQ changed.

RJFS / SAGA

Visual REP



| Call sign | BRG / DIST from ARP | Remarks |
|-----------------------|---------------------|-----------------------------|
| 鹿 島 Kashima | 250°/ 9.9NM | 新浜大橋 Bridge |
| 竹 崎 Takezaki | 199°/12.3NM | 竹崎港 Harbor |
| 大 牟 田 Ohmuta | 135°/10.1NM | JR大牟田駅 Station |
| 筑 後 Chikugo | 071°/11.8NM | 八女インターチェンジ Interchange |
| 大 中 島 Ohnakashima | 038°/ 5.0NM | 筑後川昇開橋 Bridge |
| 久 保 田 Kubota | 329°/ 5.0NM | 久保田橋 Bridge |
| 佐 賀 大 和 Sagayamato | 354°/10.5NM | 佐賀大和インターチェンジ Interchange |
| 南 関 Nankan | 111°/13.2NM | 南関インターチェンジ Interchange |
| 10NM S | 180°/10.0NM | 海上 Over the sea |

RJFS / SAGA

BALLOON

熱気球の飛行が下図区域内で行われる。(期間：5月中旬から6月中旬まで及び10月中旬から2月下旬まで：RJFSノータム参照)

Hot air balloon flight will be conducted within below area.
(Period: from mid MAY to mid JUN and from mid OCT to late FEB: see NOTAM RJFS)



飛行高度 3000ft 以下 At or below 3000ft
飛行高度 4000ft 以下 At or below 4000ft

I Balloon FLT area Nr1 II Balloon FLT area Nr2* III Balloon FLT area Nr3*

* 佐賀空港を発着する航空機に対し、熱気球に係る情報(飛行空域2及び3内で飛行する気球の概数等)の提供が佐賀ディオまたは佐賀エーエムにより行われる。

* The information of hot air balloon(aprx number of balloon etc.in flight area number 2 and 3) will be provided for departing/arriving acft from/to SAGA airport by SAGA RADIO or SAGA REMOTE.

Example of phraseology: "Two flying balloons reported in balloon flight area number two."

CHANGE : NOTAM location (RJFF→RJFS).

RJFS / SAGA

Minimum Vectoring Altitude CHART

