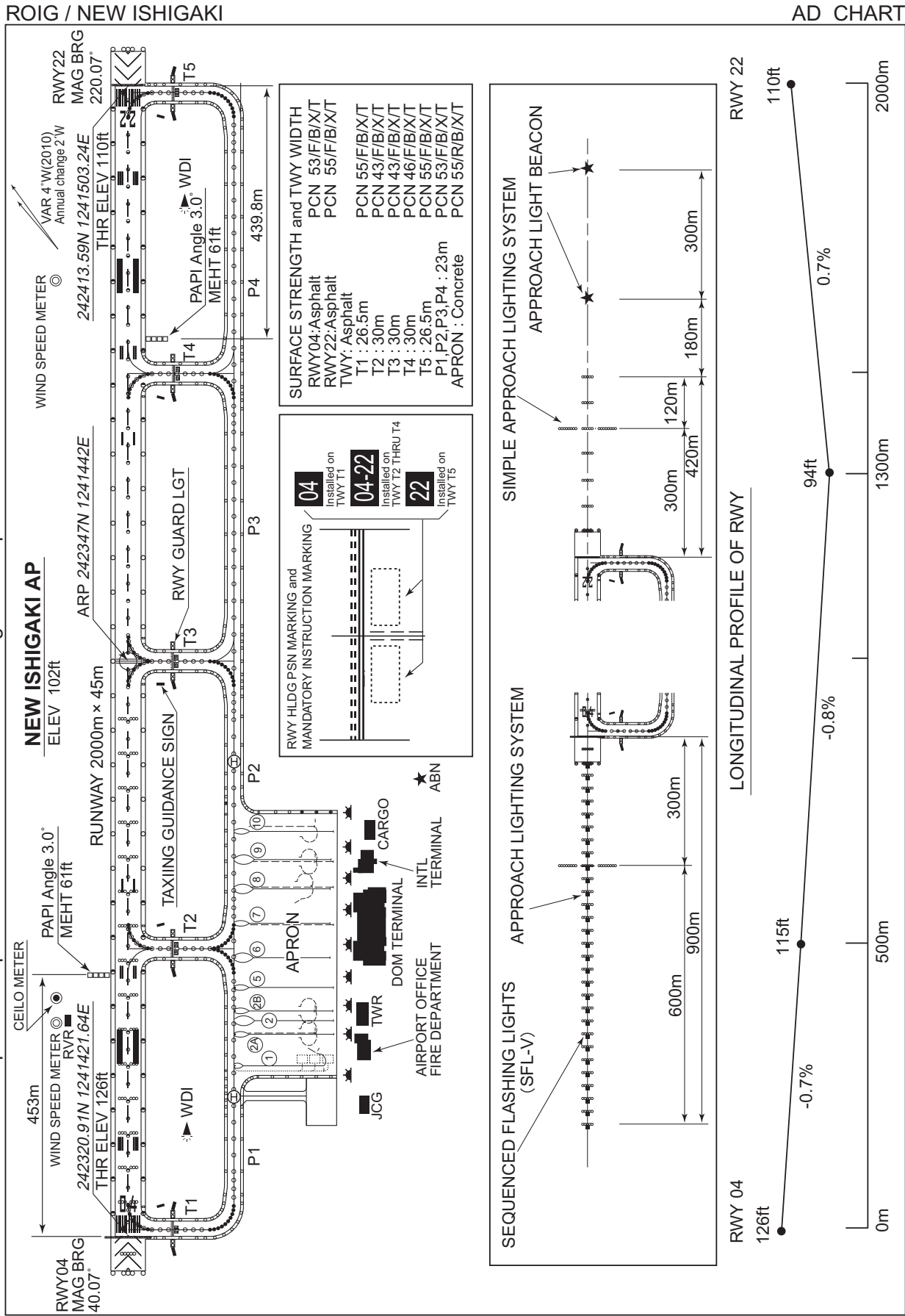


CHANGE : ACFT stand stop line for spot 6 relocated. ACFT stand turning line for spot 8 added.



INTENTIONALLY LEFT BLANK

STANDARD DEPARTURE CHART -INSTRUMENT

ROIG / NEW ISHIGAKI

SID

GUSUK ONE DEPARTURE

RWY04 : Climb RWY HDG to 600FT, turn right,...

RWY22 : Climb RWY HDG to 600FT, via IGE R214 to IGE R214/2.8DME,turn left HDG027° ...

... to intercept and proceed via IGE R072 to GUSUK.

Cross GUSUK at or above 3000FT.

MIYAKO TWO DEPARTURE

RWY04 : Climb RWY HDG to 600FT, turn right HDG175° ...

RWY22 : Climb RWY HDG to 600FT, via IGE R214 to IGE R214/2.8DME,turn left HDG085° ...

... to intercept and proceed via IGE R130 to IGE 14.0DME, turn left, via MJC R241 to MJC VORTAC.



STANDARD DEPARTURE CHART -INSTRUMENT

ROIG / NEW ISHIGAKI

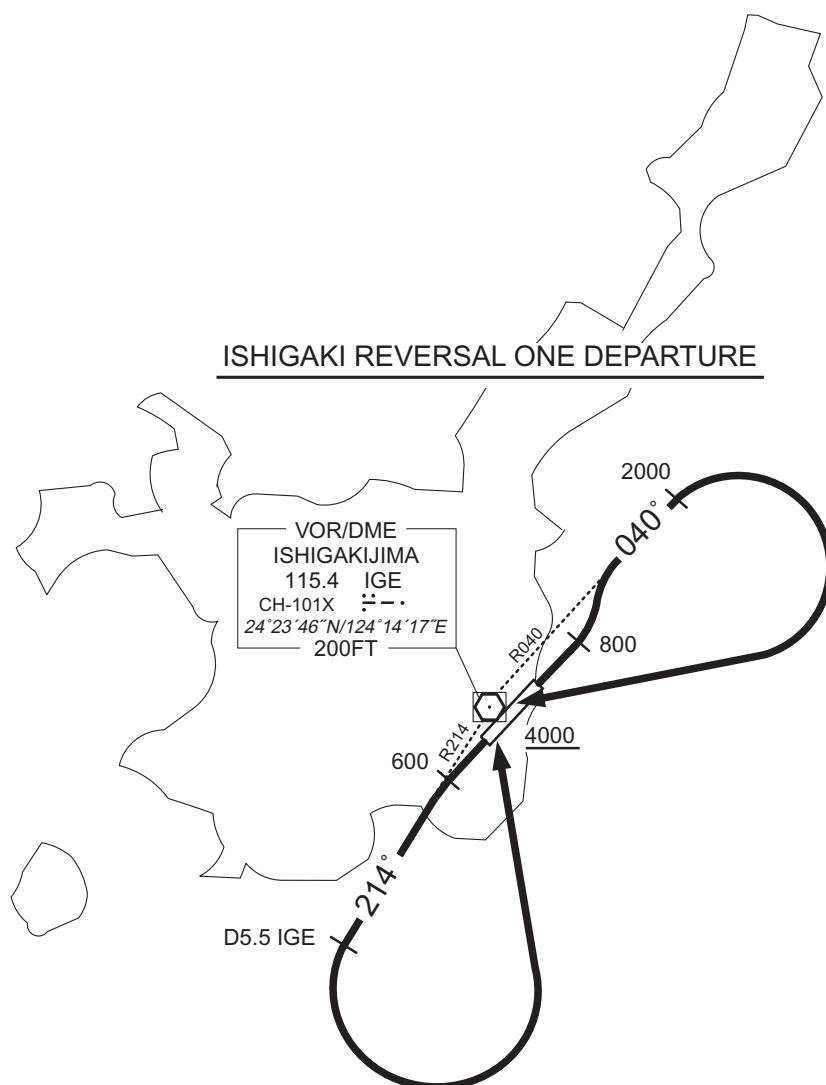
SID

ISHIGAKI REVERSAL ONE DEPARTURE

RWY04 : Climb RWY HDG to 800FT, turn left to intercept and proceed via IGE R040 to 2000FT,
turn right,direct to IGE VOR/DME.

Cross IGE VOR/DME at or above 4000FT.

RWY22 : Climb RWY HDG to 600FT,via IGE R214 to IGE R214/5.5DME,turn left, direct to IGE VOR/DME.
Cross IGE VOR/DME at or above 4000FT.



STANDARD DEPARTURE CHART -INSTRUMENT

ROIG / NEW ISHIGAKI

SID

KOHAM ONE DEPARTURE

RWY04 : Climb RWY HDG to 800FT, turn left to intercept and proceed via IGE R040 to IGE R040/5.5DME, turn left, via IGE 8.0DME counterclockwise ARC,turn right to intercept and proceed via IGE R275 to KOHAM.

Cross KOHAM at or above 4000FT.

RWY22 : Climb RWY HDG to 600FT, via IGE R214 to IGE R214/5.5DME, turn right, via IGE 8.0DME clockwise ARC, turn left to intercept and proceed via IGE R275 to KOHAM.

Cross KOHAM at or above 4000FT.

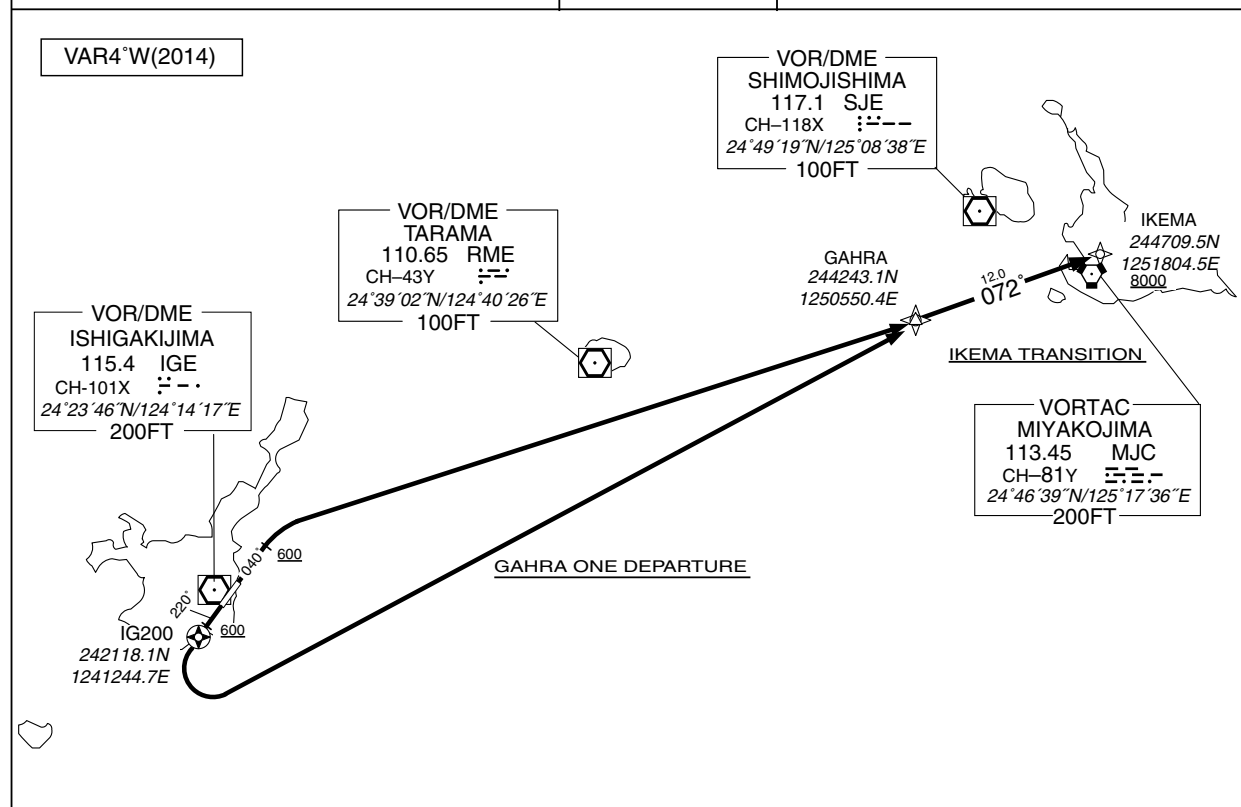


STANDARD DEPARTURE CHART -INSTRUMENT

ROIG / NEW ISHIGAKI

RNAV SID and TRANSITION

| GAHRA ONE DEPARTURE IKEMA TRANSITION | | RNAV1 |
|---|-----------------------|--|
| 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 | RWY22 : IGE : 52NM to GAHRA - 47NM to GAHRA MJC : 52NM to GAHRA - 50NM to GAHRA |
| | DME GAP | RWY04 : DER - GAHRA RWY22 : DER - IG200 IG200 - 52NM to GAHRA 47NM to GAHRA - GAHRA IKEMA TRANSITION : GAHRA - IKEMA |
| | Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

GAHRA ONE DEPARTURE

RWY04 : Climb on HDG 040° at or above 600FT, turn right direct to GAHRA.

RWY22 : Climb on HDG 220° at or above 600FT, direct to IG200, turn left direct to GAHRA.IKEMA TRANSITION

From GAHRA, to IKEMA at or above 8000FT.

STANDARD DEPARTURE CHART -INSTRUMENT

ROIG / NEW ISHIGAKI

RNAV SID and TRANSITION

GAHRA ONE DEPARTURE

RWY04

| 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 | — | — | 040 (035.9) | -4.1 | — | — | +600 | — | — | RNAV1 |
| 002 | DF | GAHRA | — | — | -4.1 | — | R | — | — | — | RNAV1 |

RWY22

| 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 | — | — | 220 (215.9) | -4.1 | — | — | +600 | — | — | RNAV1 |
| 002 | DF | IG200 | Y | — | -4.1 | — | — | — | — | — | RNAV1 |
| 003 | DF | GAHRA | — | — | -4.1 | — | L | — | — | — | RNAV1 |

IKEMA 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 | GAHRA | — | — | -4.1 | — | — | — | — | — | RNAV1 |
| 002 | TF | IKEMA | — | 072 (068.2) | -4.1 | 12.0 | — | +8000 | — | — | RNAV1 |

STANDARD DEPARTURE CHART -INSTRUMENT

ROIG / NEW ISHIGAKI

RNAV SID

| AYAKA ONE DEPARTURE | | RNAV1 |
|--|------------------------|--|
| 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 | RWY04 : IGE : 1NM to IG400 - 19NM to AYAKA YNE : 1NM to IG400 - IG401 MJC : 24NM to AYAKA - 19NM to AYAKA RWY22 : YNE : 6NM to IG202 - 5NM to IG203 MJC : IG202 - 5NM to IG203 |
| | DME GAP | RWY04 : DER - 1NM to IG400 18NM to AYAKA - AYAKA RWY22 : DER - 6NM to IG202 5NM to IG203 - AYAKA |
| | Inappropriate Nav aids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

VAR4°W(2014)

AYAKA ONE DEPARTURE

RWY04 : Climb on HDG 040° at or above 600FT, direct to IG400, to IG401, to IG402, to AYAKA at or above 5000FT.

RWY22 : Climb on HDG 220° at or above 600FT, direct to IG200, to IG201, to IG202, to IG203 at or above 5000FT, to AYAKA.

NOTE RWY04 : 4.0% climb gradient required up to 2000FT.

OBST ALT 836FT at 9.53NM 021° FM end of RWY04.

STANDARD DEPARTURE CHART -INSTRUMENT

ROIG / NEW ISHIGAKI

RNAV SID

AYAKA ONE DEPARTURE

RWY04

| 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 | — | — | 040 (035.9) | -4.1 | — | — | +600 | — | — | RNAV1 |
| 002 | DF | IG400 | — | — | -4.1 | — | — | — | — | — | RNAV1 |
| 003 | TF | IG401 | — | 007 (002.6) | -4.1 | 3.0 | — | — | — | — | RNAV1 |
| 004 | TF | IG402 | — | 293 (289.1) | -4.1 | 4.6 | — | — | — | — | RNAV1 |
| 005 | TF | AYAKA | — | 260 (256.1) | -4.1 | 36.0 | — | +5000 | — | — | RNAV1 |

RWY22

| 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 | — | — | 220 (215.9) | -4.1 | — | — | +600 | — | — | RNAV1 |
| 002 | DF | IG200 | Y | — | -4.1 | — | — | — | — | — | RNAV1 |
| 003 | TF | IG201 | — | 220 (215.7) | -4.1 | 4.6 | — | — | — | — | RNAV1 |
| 004 | TF | IG202 | — | 282 (277.9) | -4.1 | 9.6 | — | — | — | — | RNAV1 |
| 005 | TF | IG203 | — | 288 (283.9) | -4.1 | 8.4 | — | +5000 | — | — | RNAV1 |
| 006 | TF | AYAKA | — | 288 (283.8) | -4.1 | 14.0 | — | — | — | — | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

ROIG / NEW ISHIGAKI

RNAV STAR RWY04



STANDARD ARRIVAL CHART-INSTRUMENT

ROIG / NEW ISHIGAKI

RNAV STAR RWY04

JOTTO NORTH ARRIVAL

From DIANA at or above 8000FT, to MASAN, to YAIMA, to JOTTO at or above 3000FT.

| | |
|------------------------|--|
| Critical DME | MJC : DIANA - 21NM to MASAN 14NM to YAIMA - 10NM to YAIMA IGE : 36NM to MASAN - 21NM to MASAN 14NM to YAIMA - 13NM to YAIMA |
| DME GAP | 21NM to MASAN - 14NM to YAIMA |
| Inappropriate Nav aids | 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 | DIANA | — | — | -4.1 | — | — | +8000 | — | — | RNAV1 |
| 002 | TF | MASAN | — | 235 (230.5) | -4.1 | 46.1 | — | — | — | — | RNAV1 |
| 003 | TF | YAIMA | — | 220 (215.8) | -4.1 | 23.2 | — | — | -230 | — | RNAV1 |
| 004 | TF | JOTTO | — | 310 (305.5) | -4.1 | 5.0 | — | +3000 | — | — | RNAV1 |

JOTTO SOUTH ARRIVAL

From LUCKY at or above 8000FT, to YAIMA, to JOTTO at or above 3000FT.

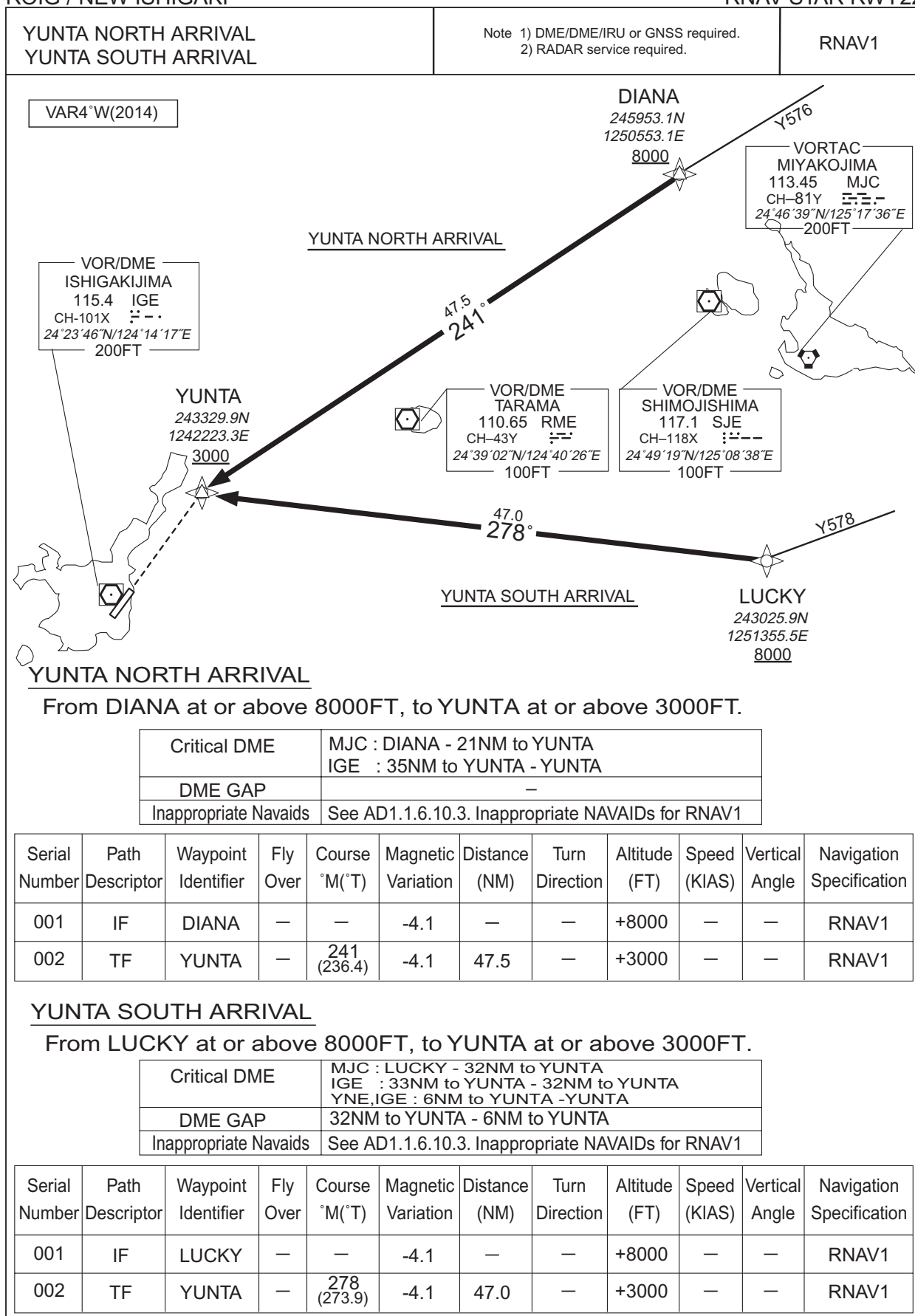
| | |
|------------------------|--|
| Critical DME | MJC : LUCKY - 6NM to YAIMA IGE : 53NM to YAIMA - 6NM to YAIMA |
| DME GAP | — |
| Inappropriate Nav aids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

| 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 | LUCKY | — | — | -4.1 | — | — | +8000 | — | — | RNAV1 |
| 002 | TF | YAIMA | — | 256 (251.9) | -4.1 | 59.5 | — | — | -230 | — | RNAV1 |
| 003 | TF | JOTTO | — | 310 (305.5) | -4.1 | 5.0 | — | +3000 | — | — | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

ROIG / NEW ISHIGAKI

RNAV STAR RWY22

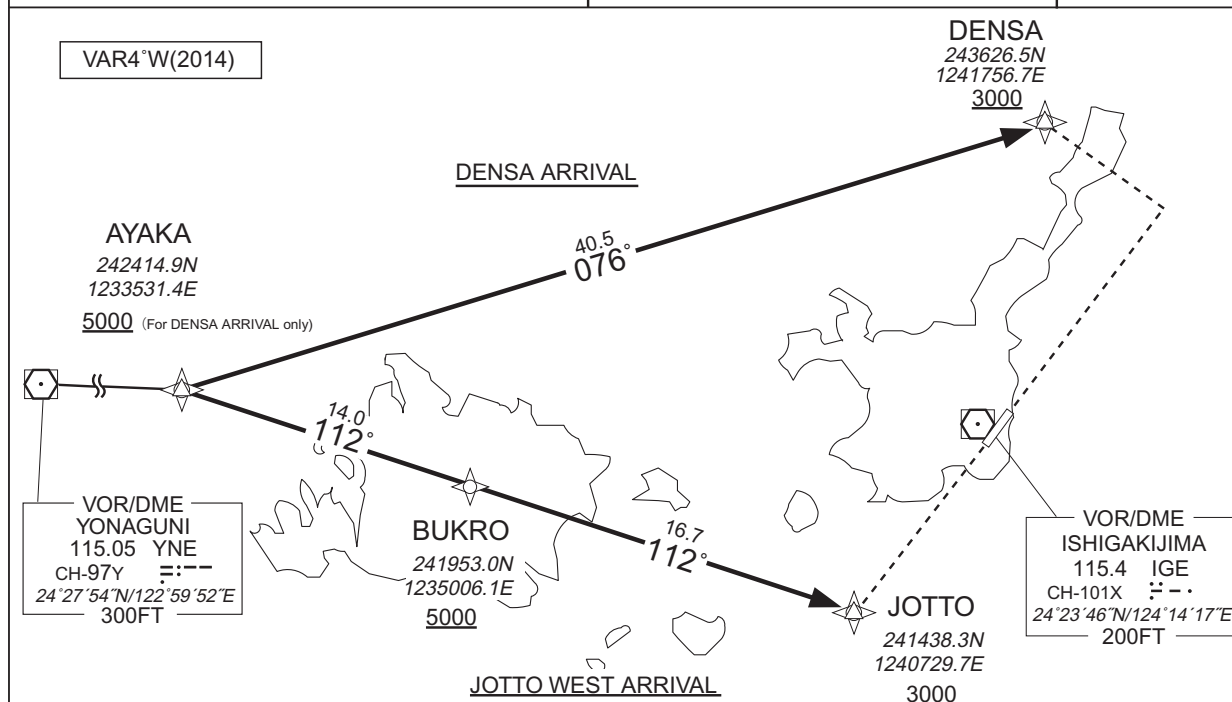


STANDARD ARRIVAL CHART-INSTRUMENT

ROIG / NEW ISHIGAKI

RNAV STAR RWY04/RWY22

| | | |
|-------------------------------------|---|-------|
| DENSA ARRIVAL JOTTO WEST ARRIVAL | Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required. | RNAV1 |
|-------------------------------------|---|-------|

**DENSA ARRIVAL**

From AYAKA at or above 5000FT, to DENSA at or above 3000FT.

| | |
|------------------------|--|
| Critical DME | IGE : 23NM to DENSA - DENSA MJC : 23NM to DENSA - 18NM to DENSA |
| DME GAP | AYAKA - 23NM to DENSA |
| Inappropriate Nav aids | 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 | AYAKA | — | — | -4.1 | — | — | +5000 | — | — | RNAV1 |
| 002 | TF | DENSA | — | 076 (072.3) | -4.1 | 40.5 | — | +3000 | — | — | RNAV1 |

JOTTO WEST ARRIVAL

From AYAKA, to BUKRO at or above 5000FT, to JOTTO at or above 3000FT.

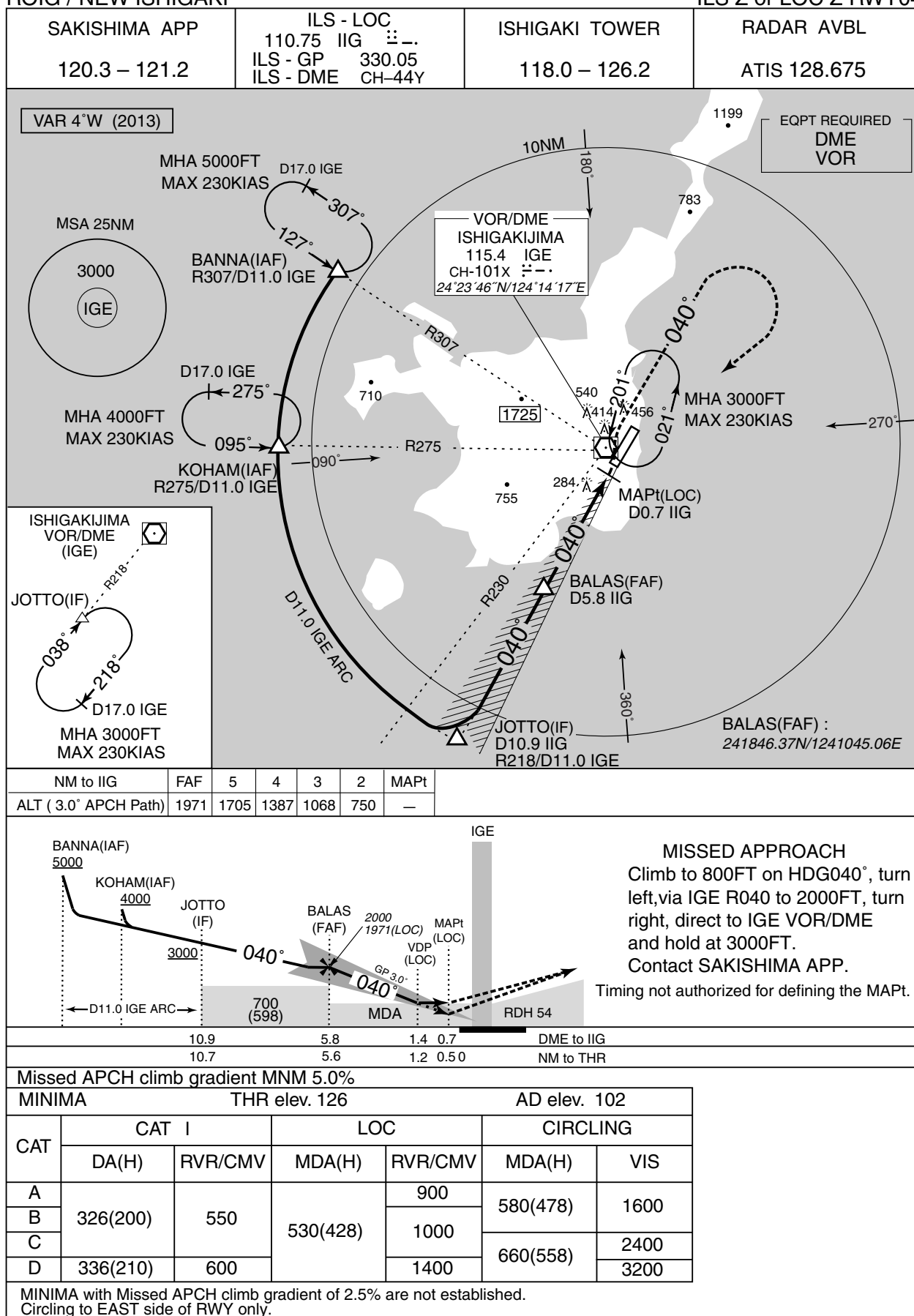
| | |
|------------------------|--|
| Critical DME | MJC : 14NM to JOTTO - 10NM to JOTTO YNE : 14NM to JOTTO - JOTTO |
| DME GAP | AYAKA - 14NM to JOTTO |
| Inappropriate Nav aids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

| 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 | AYAKA | — | — | -4.1 | — | — | — | — | — | RNAV1 |
| 002 | TF | BUKRO | — | 112 (108.1) | -4.1 | 14.0 | — | +5000 | — | — | RNAV1 |
| 003 | TF | JOTTO | — | 112 (108.2) | -4.1 | 16.7 | — | +3000 | — | — | RNAV1 |

INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

ILS Z or LOC Z RWY04



INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

ILS Y or LOC Y RWY04



| | | | | | | |
|-----------------------|------|------|------|------|-----|------|
| NM to IIG | FAF | 5 | 4 | 3 | 2 | MAPt |
| ALT (3.0° APCH Path) | 1971 | 1705 | 1387 | 1068 | 750 | — |

| | | | | |
|----------------------------------|----------------------------|------------|-----------|------------|
| Turn initiation within D11.0 IGE | BALAS (FAF) 2000 1971(LOC) | MAPt (LOC) | VDP (LOC) | IGE 3000 |
| 2600 | 700 (598) | MDA | RDH 54 | |
| 5.8 | 1.4 | 0.7 | | DME to IIG |
| 5.6 | 1.2 | 0.50 | | NM to THR |

| | | | | | |
|-------------------------------------|----------|---------------|----------|--------------|--------------------|
| Missed APCH climb gradient MNM 5.0% | | | | | |
| MINIMA | | THR elev. 126 | | AD elev. 102 | |
| CAT | CAT I | | LOC | | CIRCLING |
| | DA(H) | RVR/CMV | MDA(H) | RVR/CMV | MDA(H) VIS |
| A | 326(200) | 550 | 530(428) | 900 | 580(478) 1600 |
| B | | | | 1000 | |
| C | | | | 1400 | |
| D | 336(210) | 600 | | | 660(558) 2400 3200 |

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

ROIG / NEW ISHIGAKI

VOR RWY04

Circling to EAST side of RWY only.

INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

VOR Z RWY22

| | | | |
|--------------------------------|--|---------------------------------|----------------------------|
| SAKISHIMA APP 120.3 – 121.2 | ISHIGAKIJIMA VOR/DME 115.4 IGE CH-101X 24°23'46"N/124°14'17"E | ISHIGAKI TOWER 118.0 – 126.2 | RADAR AVBL ATIS 128.675 |
|--------------------------------|--|---------------------------------|----------------------------|

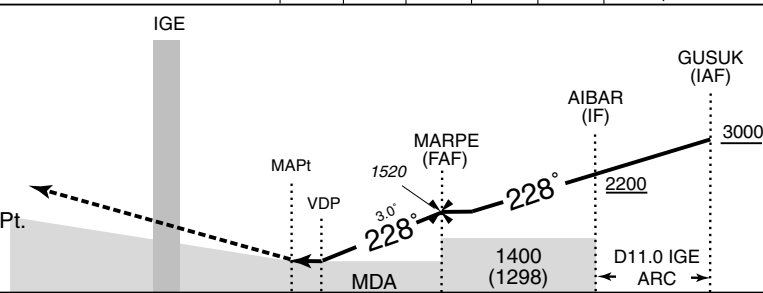


| | | | | | |
|------|-----|------|------|------|-----------------------|
| MAPt | 3 | 4 | 5 | FAF | NM to IGE |
| — | 845 | 1163 | 1481 | 1520 | ALT (3.0° APCH Path) |

MISSED APPROACH

Climb via IGE R215 to IGE
4.0DME, turn left, direct to IGE
VOR/DME and hold at 3000FT.
Contact SAKISHIMA APP.

Timing not authorized for defining the MAPt.



| | | | | | |
|------------|---|-----|-----|-----|------|
| DME to IGE | | 2.1 | 2.2 | 5.1 | 11.0 |
| NM to THR | 0 | 1.3 | 1.4 | 4.3 | 10.2 |

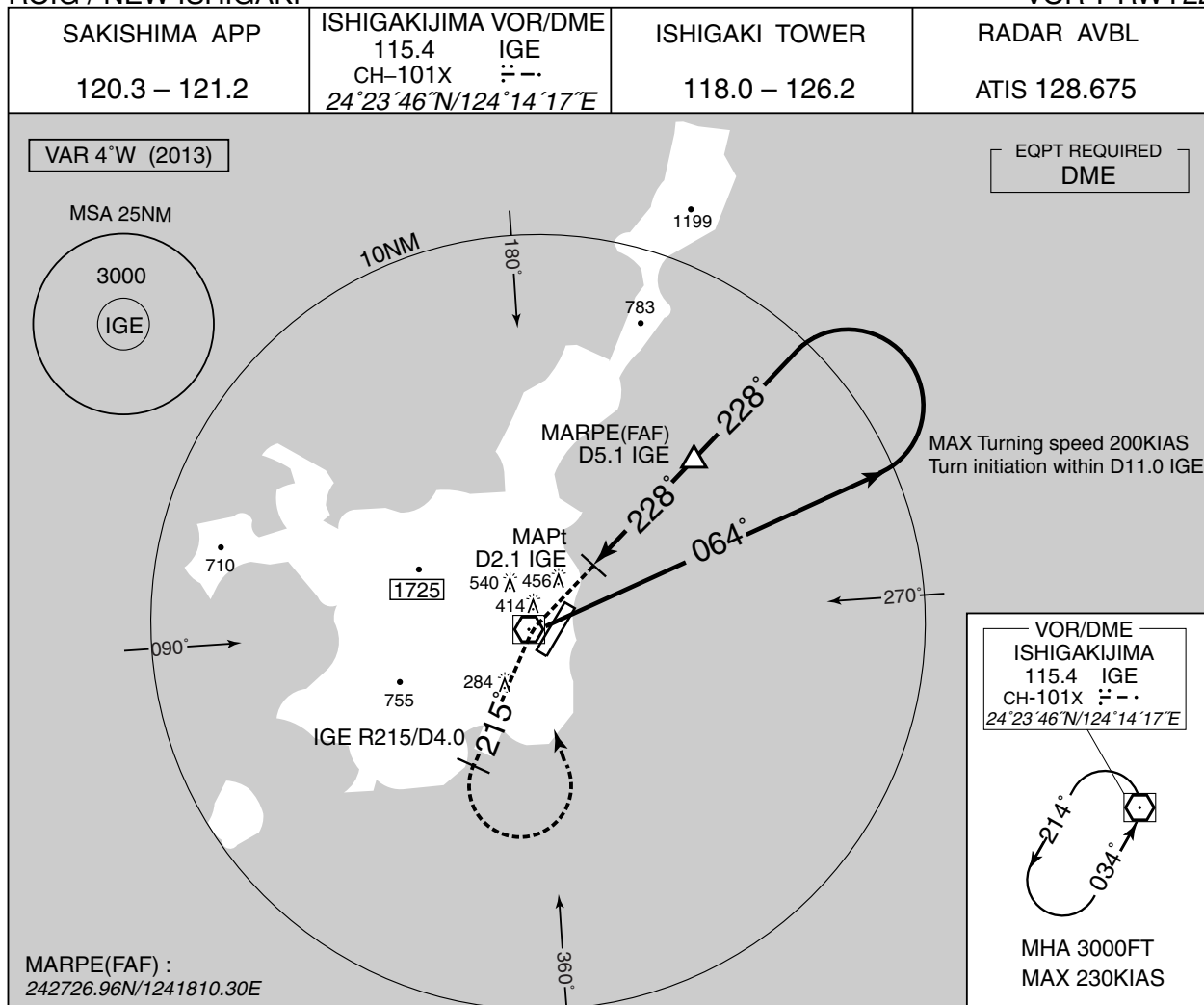
| MINIMA | | THR elev. 110 | | AD elev. 102 | |
|--------|----------|---------------|----------|--------------|--|
| CAT | | | CIRCLING | | |
| | MDA(H) | CMV | MDA(H) | VIS | |
| A | 580(478) | 1400 | 580(478) | 1600 | |
| B | | 1500 | | | |
| C | | 1600 | 660(558) | 2400 | |
| D | | 1800 | | | |

Circling to EAST side of RWY only.

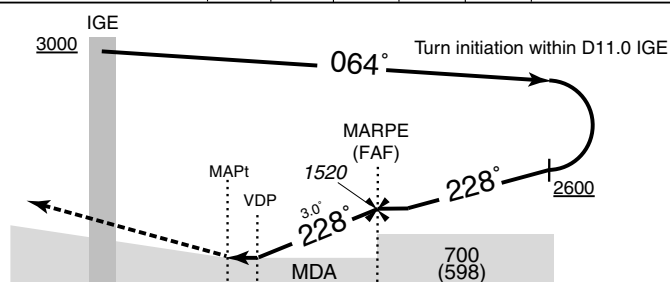
INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

VOR Y RWY22



MISSED APPROACH
 Climb via IGE R215 to IGE
 4.0DME, turn left, direct to IGE
 VOR/DME and hold at 3000FT.
 Contact SAKISHIMA APP.
 Timing not authorized for defining the MAPt.



| | | | | |
|------------|-----|-----|-----|-----|
| DME to IGE | 2.1 | 2.2 | 5.1 | |
| NM to THR | 0 | 1.3 | 1.4 | 4.3 |

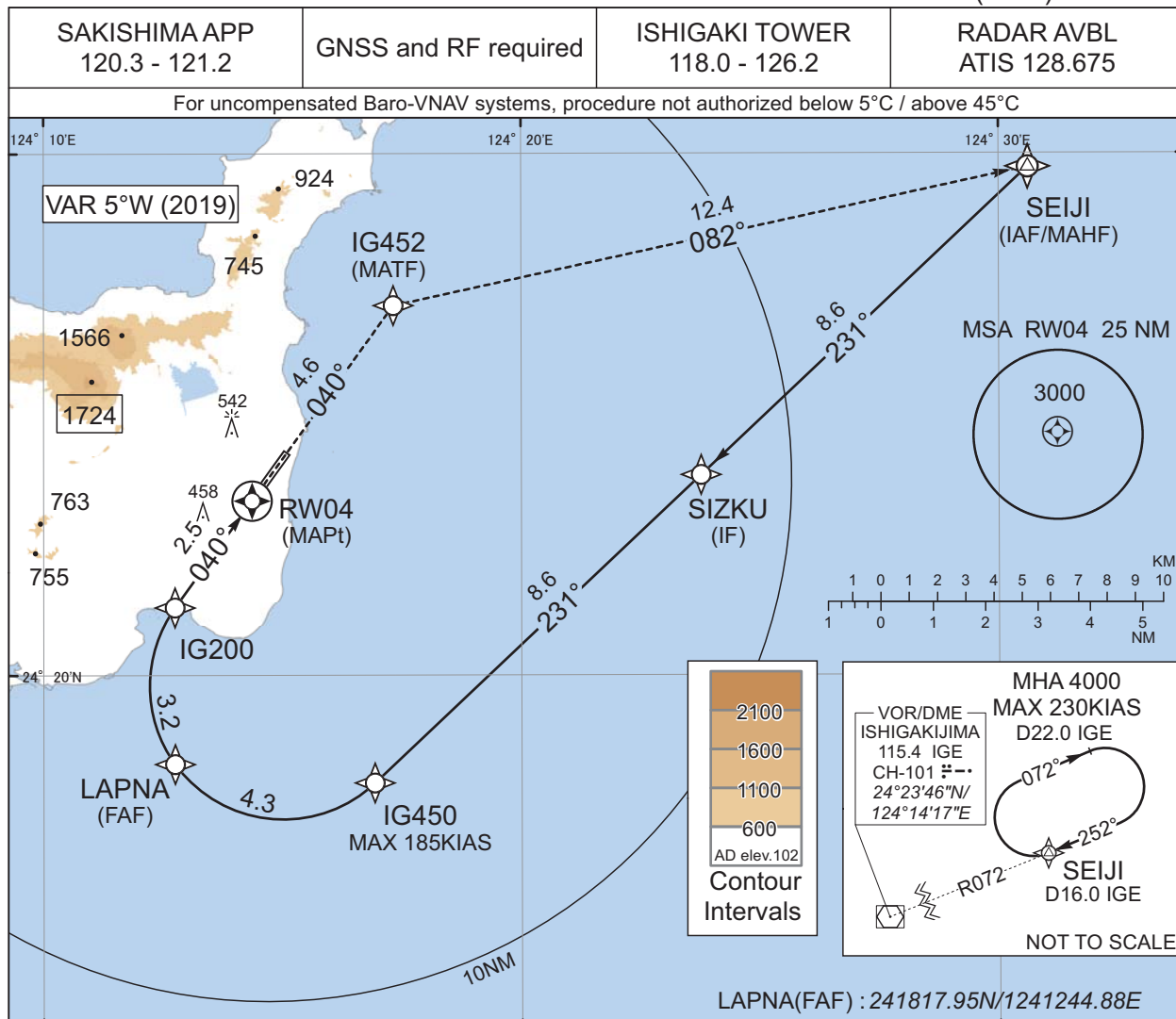
| MINIMA | | THR elev. 110 | | AD elev. 102 | |
|--------|----------|---------------|----------|--------------|------|
| CAT | | | CIRCLING | | |
| | MDA(H) | CMV | MDA(H) | VIS | |
| A | 580(478) | 1400 | 580(478) | 1600 | |
| B | | 1500 | | | |
| C | | 1600 | 660(558) | 2400 | |
| D | | 1800 | | | 3200 |

Circling to EAST side of RWY only.

INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

RNAV(RNP) Z RWY04



Missed APCH climb gradient MNM 5.0%

| MINIMA | THR elev. 126 | AD elev. 102 |
|--------|---------------|--------------|
| CAT | RNP 0.30 | |
| | DA(H) | RVR/CMV |
| A | - | - |
| B | - | - |
| C | 545(419) | 1000 |
| D | 567(441) | 1400 |

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

RNP AR**Special Authorization Required**

CHANGE : New PROC

INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

RNAV(RNP) Z RWY04

RNAV(RNP) Z RWY04Coding 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 | SEIJI | - | - | -4.7 | - | - | +4000 | - | - | - |
| 002 | TF | SIZKU | - | 231 (226.6) | -4.7 | 8.6 | - | - | - | - | 1.0 |
| 003 | TF | IG450 | - | 231 (226.6) | -4.7 | 8.6 | - | +2000 | -185 | - | 1.0 |
| 004 | RF Center: IGRF1 r=2.55NM | LAPNA | - | - | -4.7 | 4.3 | R | 2000 | - | - | 1.0 |
| 005 | RF Center: IGRF1 r=2.55NM | IG200 | - | - | -4.7 | 3.2 | R | 982 | - | -3.00 | 0.3 |
| 006 | TF | RW04 | Y | 040 (035.7) | -4.7 | 2.5 | - | 180 | - | -3.00/54 | 0.3 |
| 007 | TF | IG452 | - | 040 (035.7) | -4.7 | 4.6 | - | - | - | - | 1.0 |
| 008 | TF | SEIJI | - | 082 (077.6) | -4.7 | 12.4 | - | 4000 | - | - | 1.0 |

Waypoint Coordinates

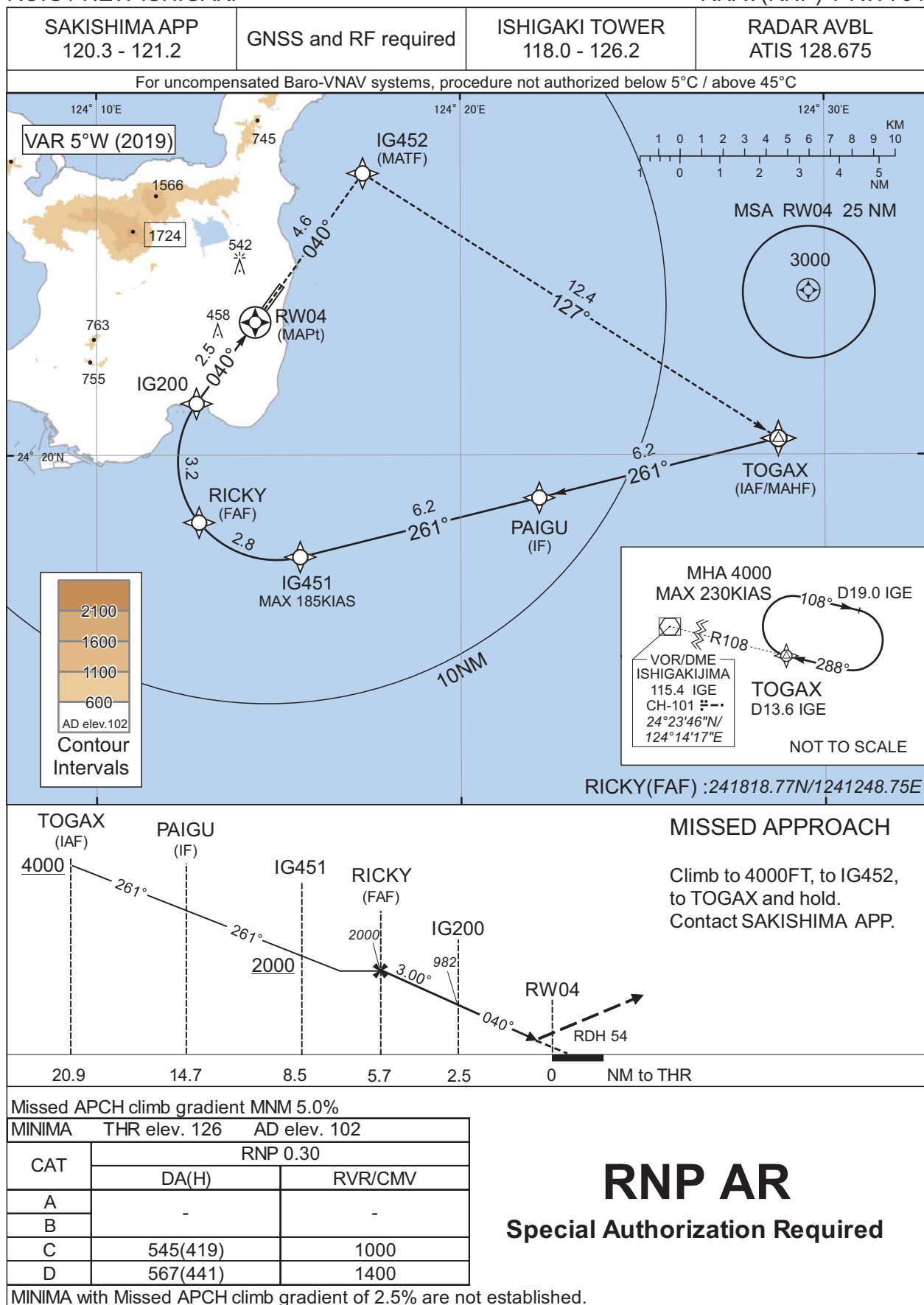
| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|------------------------|--------------------------|------------------------|
| SEIJI | 242944.43N/1243036.57E | IGRF1 | 241948.12N/1241500.55E |
| SIZKU | 242350.59N/1242345.74E | | |
| IG450 | 241756.41N/1241655.55E | | |
| LAPNA | 241817.95N/1241244.88E | | |
| IG200 | 242118.09N/1241244.70E | | |
| RW04 | 242320.91N/1241421.64E | | |
| IG452 | 242705.63N/1241719.18E | | |

CHANGE : New PROC

INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

RNAV(RNP) Y RWY04



CHANGE : New PROC

INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

RNAV(RNP) Y RWY04

RNAV(RNP) Y RWY04Coding 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 | TOGAX | - | - | -4.7 | - | - | +4000 | - | - | - |
| 002 | TF | PAIGU | - | 261 (256.1) | -4.7 | 6.2 | - | - | - | - | 1.0 |
| 003 | TF | IG451 | - | 261 (256.1) | -4.7 | 6.2 | - | +2000 | -185 | - | 1.0 |
| 004 | RF Center: IGRF2 r=2.47NM | RICKY | - | - | -4.7 | 2.8 | R | 2000 | - | - | 1.0 |
| 005 | RF Center: IGRF2 r=2.47NM | IG200 | - | - | -4.7 | 3.2 | R | 982 | - | -3.00 | 0.3 |
| 006 | TF | RW04 | Y | 040 (035.7) | -4.7 | 2.5 | - | 180 | - | -3.00/54 | 0.3 |
| 007 | TF | IG452 | - | 040 (035.7) | -4.7 | 4.6 | - | - | - | - | 1.0 |
| 008 | TF | TOGAX | - | 127 (122.7) | -4.7 | 12.4 | - | 4000 | - | - | 1.0 |

Waypoint Coordinates

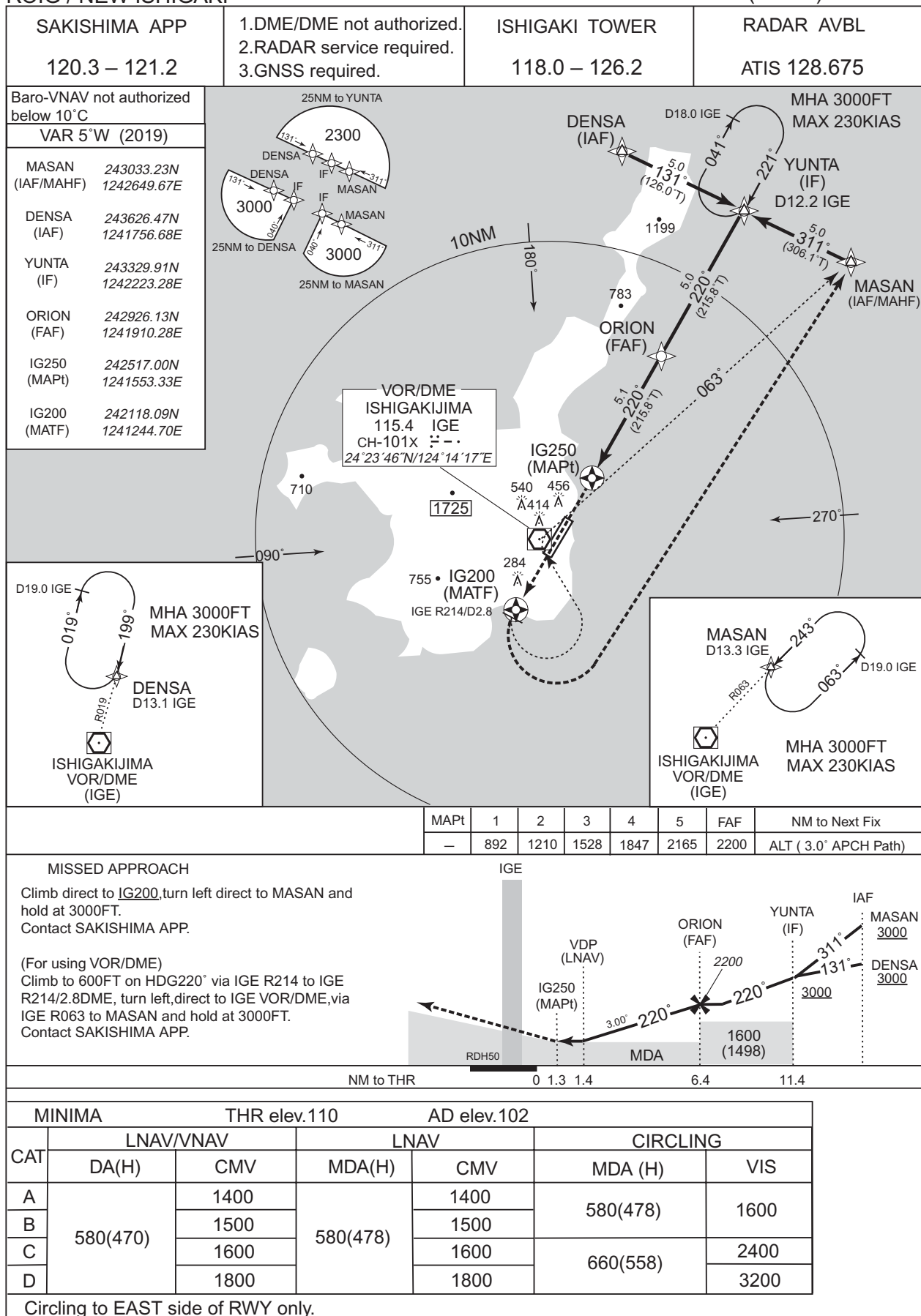
| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|------------------------|--------------------------|------------------------|
| TOGAX | 242024.18N/1242843.66E | IGRF2 | 241950.87N/1241456.35E |
| PAIGU | 241855.41N/1242209.38E | | |
| IG451 | 241726.37N/1241535.30E | | |
| RICKY | 241818.77N/1241248.75E | | |
| IG200 | 242118.09N/1241244.70E | | |
| RW04 | 242320.91N/1241421.64E | | |
| IG452 | 242705.63N/1241719.18E | | |

CHANGE : New PROC

INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

RNAV(GNSS) Z RWY22



CHANGE : VAR. Course FM DENSA TO YUNTA. Course FM MASAN TO YUNTA. PROC renamed.

ROIG / NEW ISHIGAKI

RNAV(RNP) Y RWY22

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



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

INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

RNAV(RNP) Y RWY22

RNAV(RNP) Y RWY22Coding 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 | OMOCK | - | - | -4.7 | - | - | +4000 | - | - | - |
| 002 | TF | MURAT | - | 221 (215.8) | -4.7 | 5.0 | - | - | - | - | 1.0 |
| 003 | TF | URIZN | - | 220 (215.8) | -4.7 | 3.7 | - | 2200 | - | - | 1.0 |
| 004 | TF | RW22 | Y | 220 (215.8) | -4.7 | 6.4 | - | 160 | - | -3.00/50 | 0.12 0.30 |
| 005 | TF | IG253 | - | 220 (215.7) | -4.7 | 0.3 | - | - | - | - | 0.12 0.30 |
| 006 | TF | IG254 | - | 220 (215.7) | -4.7 | 6.6 | - | - | - | - | 1.0 |
| 007 | RF Center: IGRF3 r=3.28NM | IG255 | - | - | -4.7 | 9.8 | L | - | - | - | 1.0 |
| 008 | TF | PAZUU | - | 050 (045.2) | -4.7 | 21.0 | - | 4000 | - | - | 1.0 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|------------------------|--------------------------|------------------------|
| OMOCK | 243631.66N/1242447.35E | IGRF3 | 241641.99N/1241333.15E |
| MURAT | 243227.94N/1242134.19E | | |
| URIZN | 242926.14N/1241910.29E | | |
| RW22 | 242413.59N/1241503.24E | | |
| IG253 | 242357.98N/1241450.93E | | |
| IG254 | 241837.84N/1241038.29E | | |
| IG255 | 241421.38N/1241604.82E | | |
| PAZUU | 242908.99N/1243226.97E | | |

CHANGE : New PROC

INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

RNAV(RNP) X RWY22

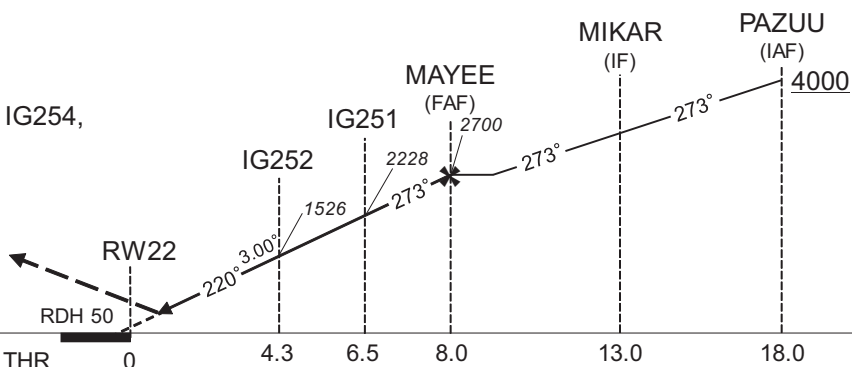
| | | | |
|--------------------------------|----------------------|---------------------------------|----------------------------|
| SAKISHIMA APP 120.3 - 121.2 | GNSS and RF required | ISHIGAKI TOWER 118.0 - 126.2 | RADAR AVBL ATIS 128.675 |
|--------------------------------|----------------------|---------------------------------|----------------------------|

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



MISSED APPROACH

Climb to 4000FT, to IG253, to IG254, to IG255 via fixed radius turn, to PAZUU and hold.
Contact SAKISHIMA APP.



Missed APCH climb gradient MNM 5.0%

| MINIMA | THR elev.110 | AD elev.102 | | |
|--------|--------------|-------------|----------|------|
| CAT | RNP 0.12 | | RNP 0.30 | |
| | DA(H) | CMV | DA(H) | CMV |
| A | - | - | - | - |
| B | - | - | - | - |
| C | 545(435) | 1400 | 608(498) | 1600 |
| D | 559(449) | 1600 | 618(508) | 1800 |

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

RNP AR

Special Authorization Required

INSTRUMENT APPROACH CHART

ROIG / NEW ISHIGAKI

RNAV(RNP) X RWY22

RNAV(RNP) X RWY22Coding 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 | PAZUU | - | - | -4.7 | - | - | +4000 | - | - | - |
| 002 | TF | MIKAR | - | 273 (267.9) | -4.7 | 5.0 | - | | - | - | 1.0 |
| 003 | TF | MAYEE | - | 273 (267.9) | -4.7 | 5.0 | - | 2700 | - | - | 1.0 |
| 004 | TF | IG251 | - | 273 (267.8) | -4.7 | 1.5 | - | 2228 | - | -3.00 | 0.12 0.30 |
| 005 | RF Center: IGRF4 r=2.43NM | IG252 | - | - | -4.7 | 2.2 | L | 1526 | - | -3.00 | 0.12 0.30 |
| 006 | TF | RW22 | Y | 220 (215.7) | -4.7 | 4.3 | - | 160 | - | -3.00/50 | 0.12 0.30 |
| 007 | TF | IG253 | - | 220 (215.7) | -4.7 | 0.3 | - | - | - | - | 0.12 0.30 |
| 008 | TF | IG254 | - | 220 (215.7) | -4.7 | 6.6 | - | - | - | - | 1.0 |
| 009 | RF Center: IGRF3 r=3.28NM | IG255 | - | - | -4.7 | 9.8 | L | - | - | - | 1.0 |
| 010 | TF | PAZUU | - | 050 (045.2) | -4.7 | 21.0 | - | 4000 | - | - | 1.0 |

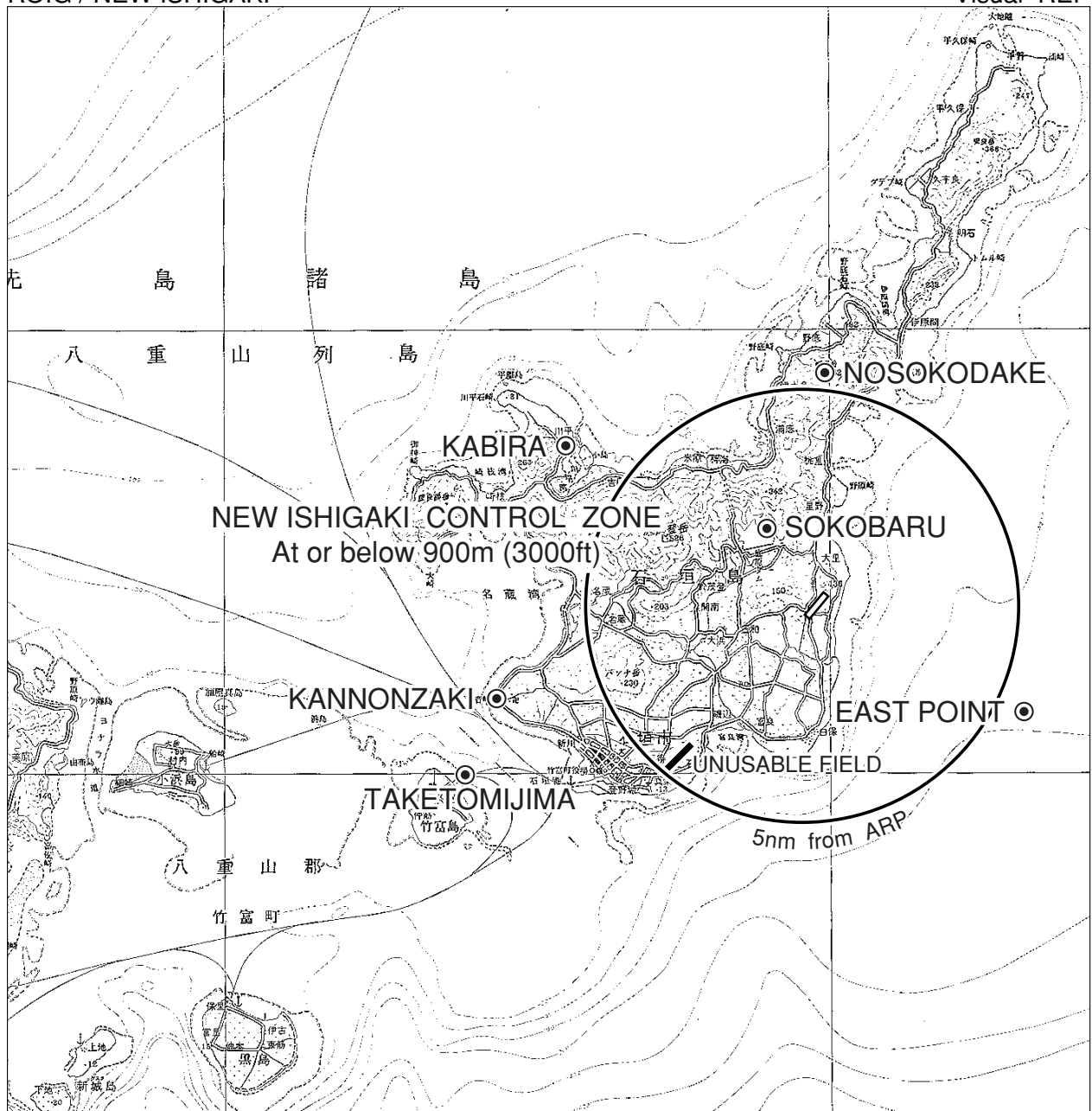
Waypoint Coordinates

| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|------------------------|--------------------------|------------------------|
| PAZUU | 242908.99N/1243226.97E | IGRF4 | 242617.16N/1241958.19E |
| MIKAR | 242857.97N/1242658.29E | IGRF3 | 241641.99N/1241333.15E |
| MAYEE | 242846.75N/1242129.62E | | |
| IG251 | 242843.38N/1241952.14E | | |
| IG252 | 242742.97N/1241748.71E | | |
| RW22 | 242413.59N/1241503.24E | | |
| IG253 | 242357.98N/1241450.93E | | |
| IG254 | 241837.84N/1241038.29E | | |
| IG255 | 241421.38N/1241604.82E | | |

CHANGE : New PROC

ROIG / NEW ISHIGAKI

Visual REP



| Call sign | BRG / DIST from ARP | Remarks |
|---------------------|---------------------|--------------------------------------|
| 野底岳 Nosokodake | 006° / 5.5NM | 山 Mountain |
| EAST POINT | 120° / 6.0NM | 海上 Over the sea |
| 竹富島 Taketomijima | 250° / 9.0NM | 高速艇船着場 Port |
| 観音崎 Kannonzaki | 259° / 7.5NM | 灯台 Light house |
| 川平 Kabira | 309° / 6.8NM | 川平湾グラスボート乗り場 Kabira Bay Boat pier |
| 底原 Sokobaru | 325° / 2.1NM | ダム Dam |



Minimum Vectoring Altitude CHART

