

ROMY / MIYAKO

AD CHART

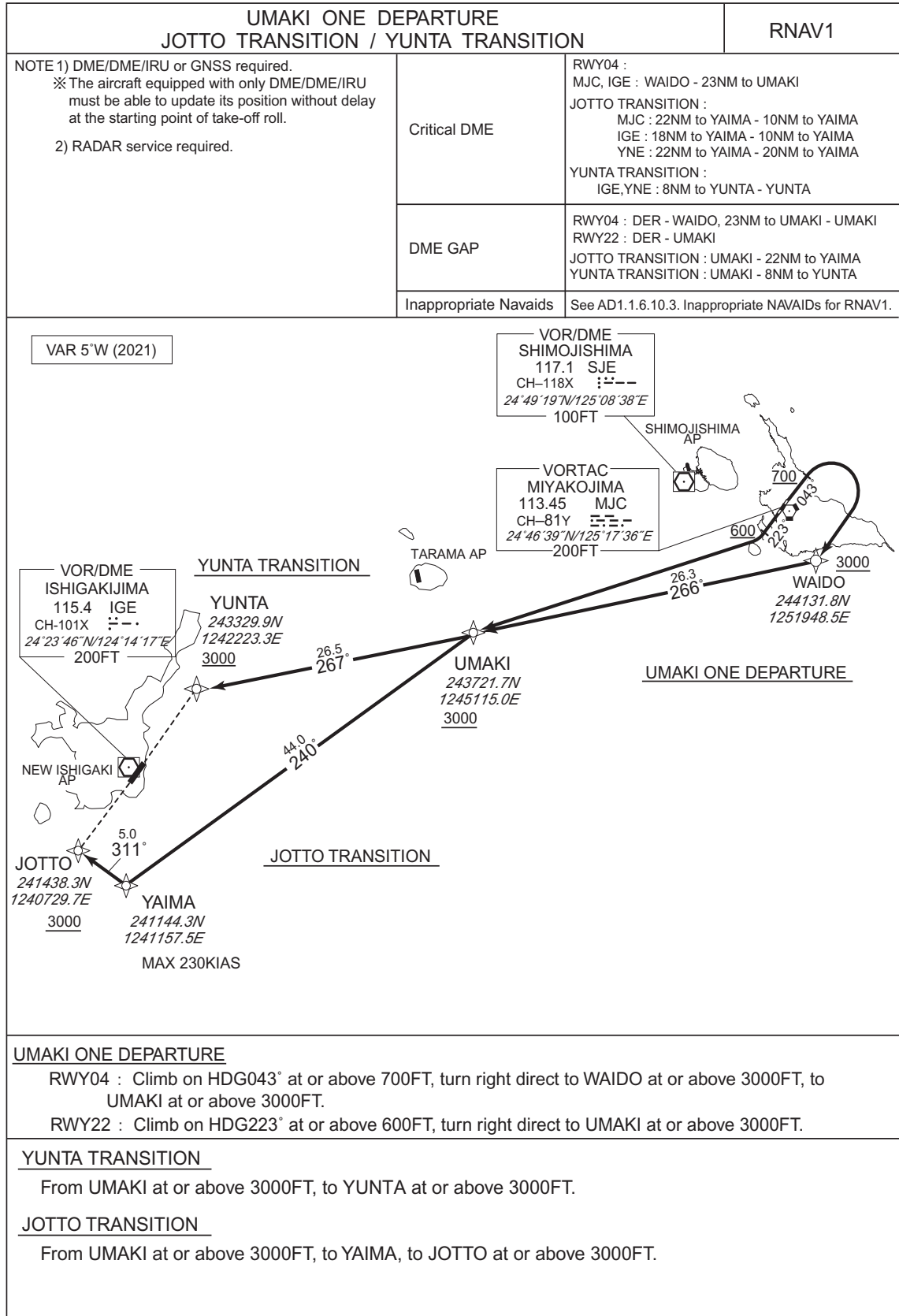


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STANDARD DEPARTURE CHART -INSTRUMENT

ROMY / MIYAKO

RNAV SID and TRANSITION



STANDARD DEPARTURE CHART -INSTRUMENT

ROMY / MIYAKO

RNAV SID and TRANSITION

UMAKI 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 | — | — | 043 (038.2) | -5.1 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | WAIDO | — | — | -5.1 | — | R | +3000 | — | — | RNAV1 |
| 003 | TF | UMAKI | — | 266 (261.0) | -5.1 | 26.3 | — | +3000 | — | — | 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 | — | — | 223 (218.2) | -5.1 | — | — | +600 | — | — | RNAV1 |
| 002 | DF | UMAKI | — | — | -5.1 | — | R | +3000 | — | — | RNAV1 |

YUNTA 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 | UMAKI | — | — | -5.1 | — | — | +3000 | — | — | RNAV1 |
| 002 | TF | YUNTA | — | 267 (261.7) | -5.1 | 26.5 | — | +3000 | — | — | RNAV1 |

JOTTO TRANSITION

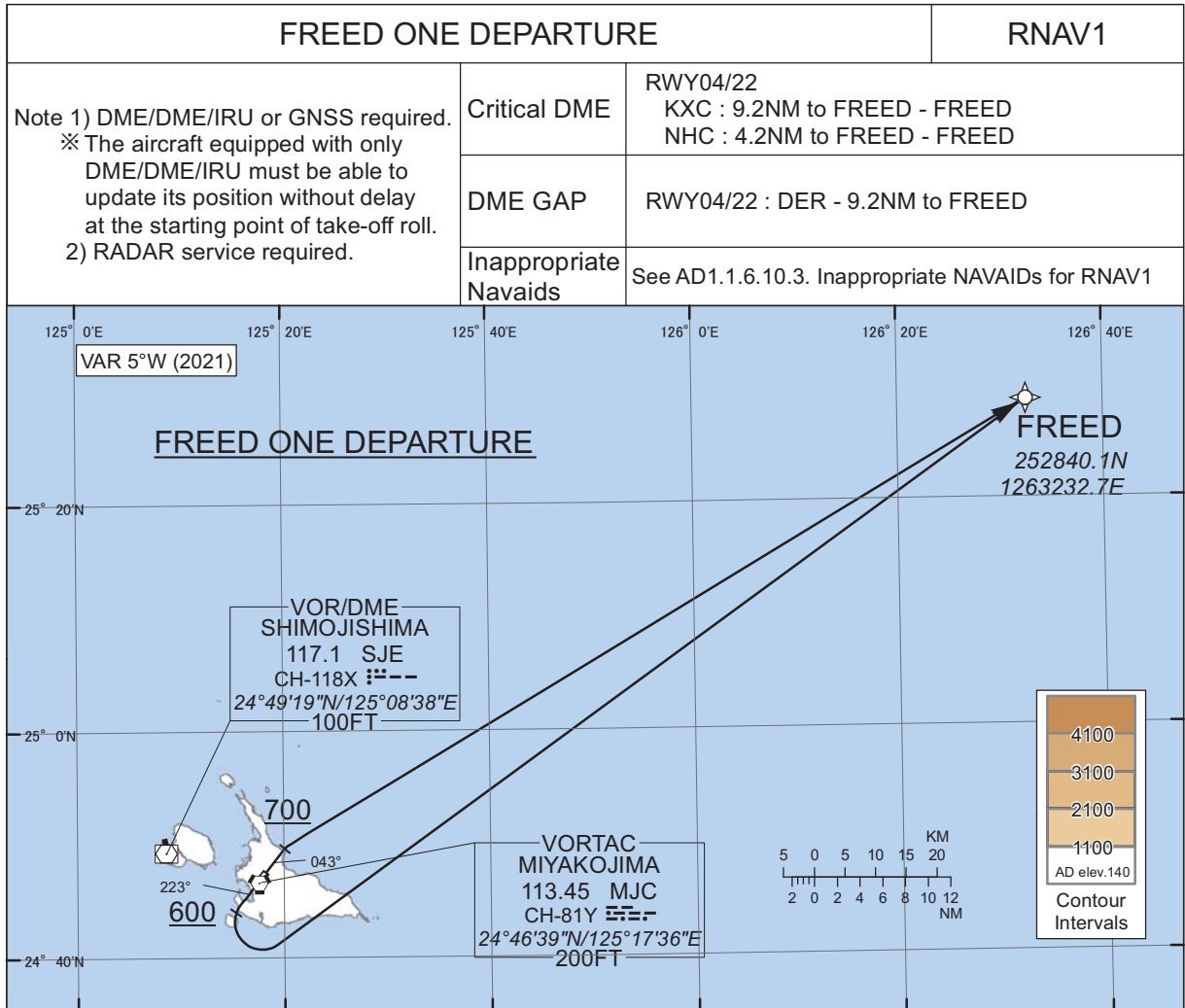
| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | UMAKI | — | — | -5.1 | — | — | +3000 | — | — | RNAV1 |
| 002 | TF | YAIMA | — | 240 (234.5) | -5.1 | 44.0 | — | — | -230 | — | RNAV1 |
| 003 | TF | JOTTO | — | 311 (305.5) | -5.1 | 5.0 | — | +3000 | — | — | RNAV1 |

CHANGE : VAR. Course FM YAIMA to JOTTO.

STANDARD DEPARTURE CHART -INSTRUMENT

ROMY / MIYAKO

RNAV SID

FREED ONE DEPARTURE

RWY04 : Climb on HDG043° at or above 700FT, turn right direct to FREED.

RWY22 : Climb on HDG223° at or above 600FT, turn left direct to FREED.

RWY04

| Serial Number | Path Descriptor | Way point Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|----------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | - | - | 043 (038.2) | -5.1 | - | - | +700 | - | - | RNAV1 |
| 002 | DF | FREED | - | - | -5.1 | - | R | - | - | - | RNAV1 |

RWY22

| Serial Number | Path Descriptor | Way point Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|----------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | - | - | 223 (218.2) | -5.1 | - | - | +600 | - | - | RNAV1 |
| 002 | DF | FREED | - | - | -5.1 | - | L | - | - | - | RNAV1 |

CHANGE : New PROC.

STANDARD DEPARTURE CHART -INSTRUMENT

ROMY / MIYAKO

SID

NAHA SIX DEPARTURE

RWY 04 : Climb RWY HDG to 700FT, turn right...

RWY 22 : Climb RWY HDG to 600FT, turn left HDG015°...
... to intercept and proceed via MJC R060 to PAYAO.

STANDARD DEPARTURE CHART -INSTRUMENT

ROMY / MIYAKO

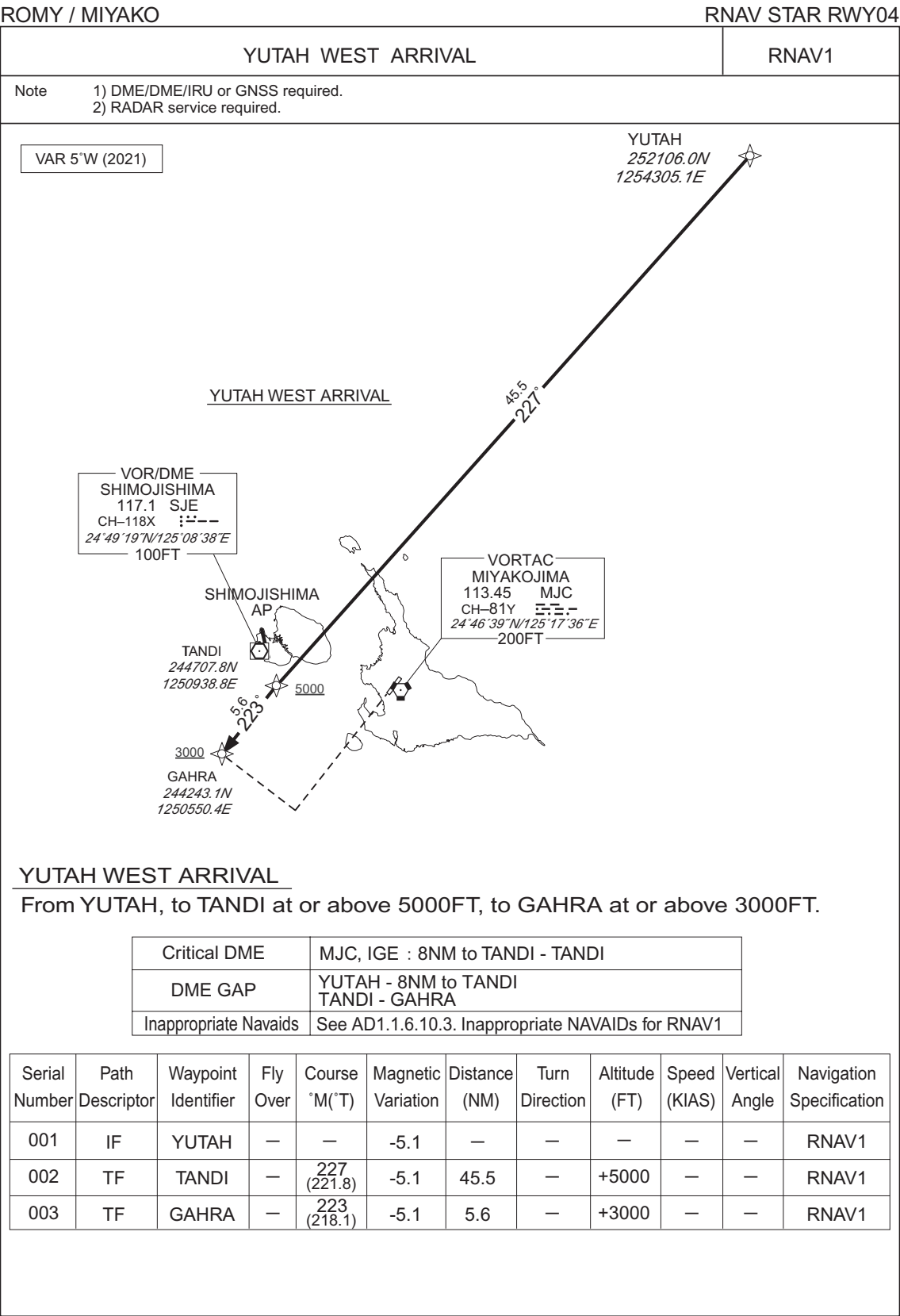
SID

WEST SEVEN DEPARTURE

RWY 04 : Climb RWY HDG to 700FT, turn right...
RWY 22 : Climb RWY HDG to 600FT, turn right...
... to intercept and proceed via MJC R253 to SHUJI.
Cross SHUJI at or above 3000FT.



STANDARD ARRIVAL CHART - INSTRUMENT



STANDARD ARRIVAL CHART - INSTRUMENT

ROMY / MIYAKO

RNAV STAR RWY22

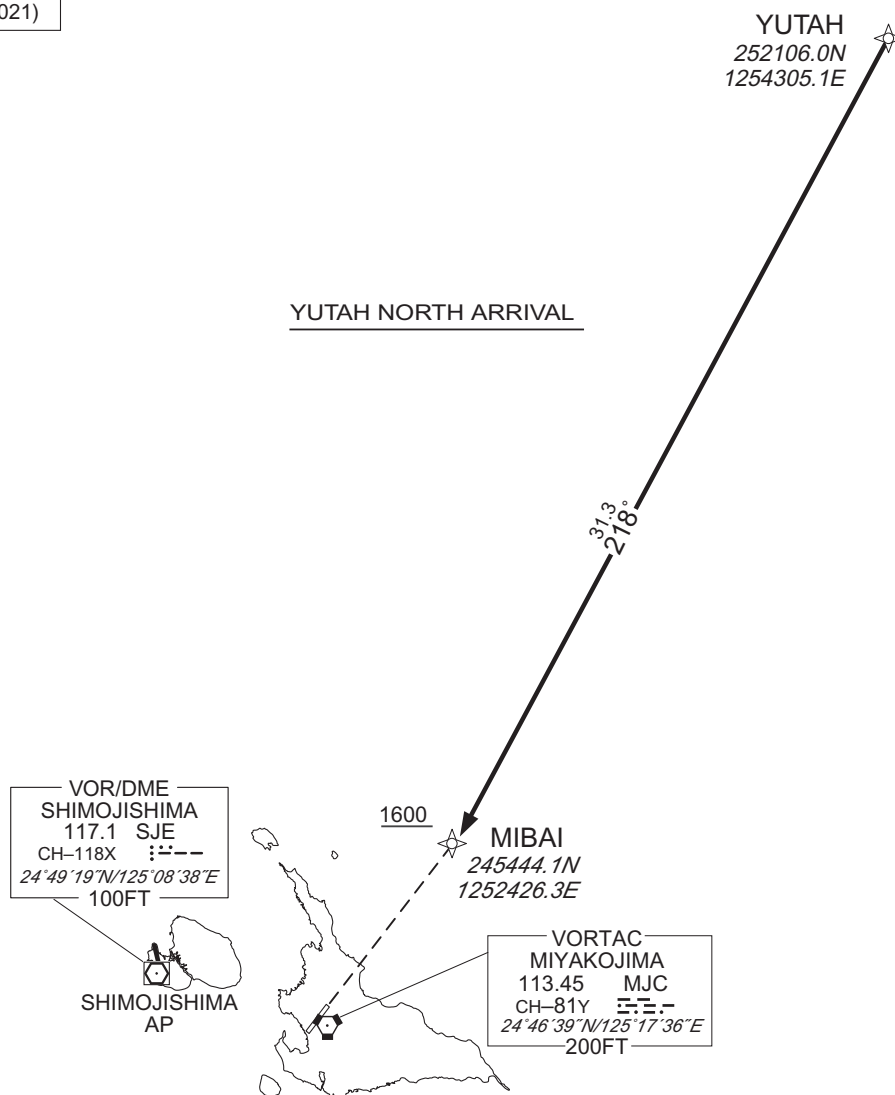
YUTAH NORTH ARRIVAL

RNAV1

Note

- 1) GNSS required.
- 2) RADAR service required.

VAR 5°W (2021)

YUTAH NORTH ARRIVAL

From YUTAH, to MIBAI at or above 1600FT.

| | |
|-----------------------|---|
| Critical DME | — |
| DME GAP | YUTAH - MIBAI |
| Inappropriate NavAids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

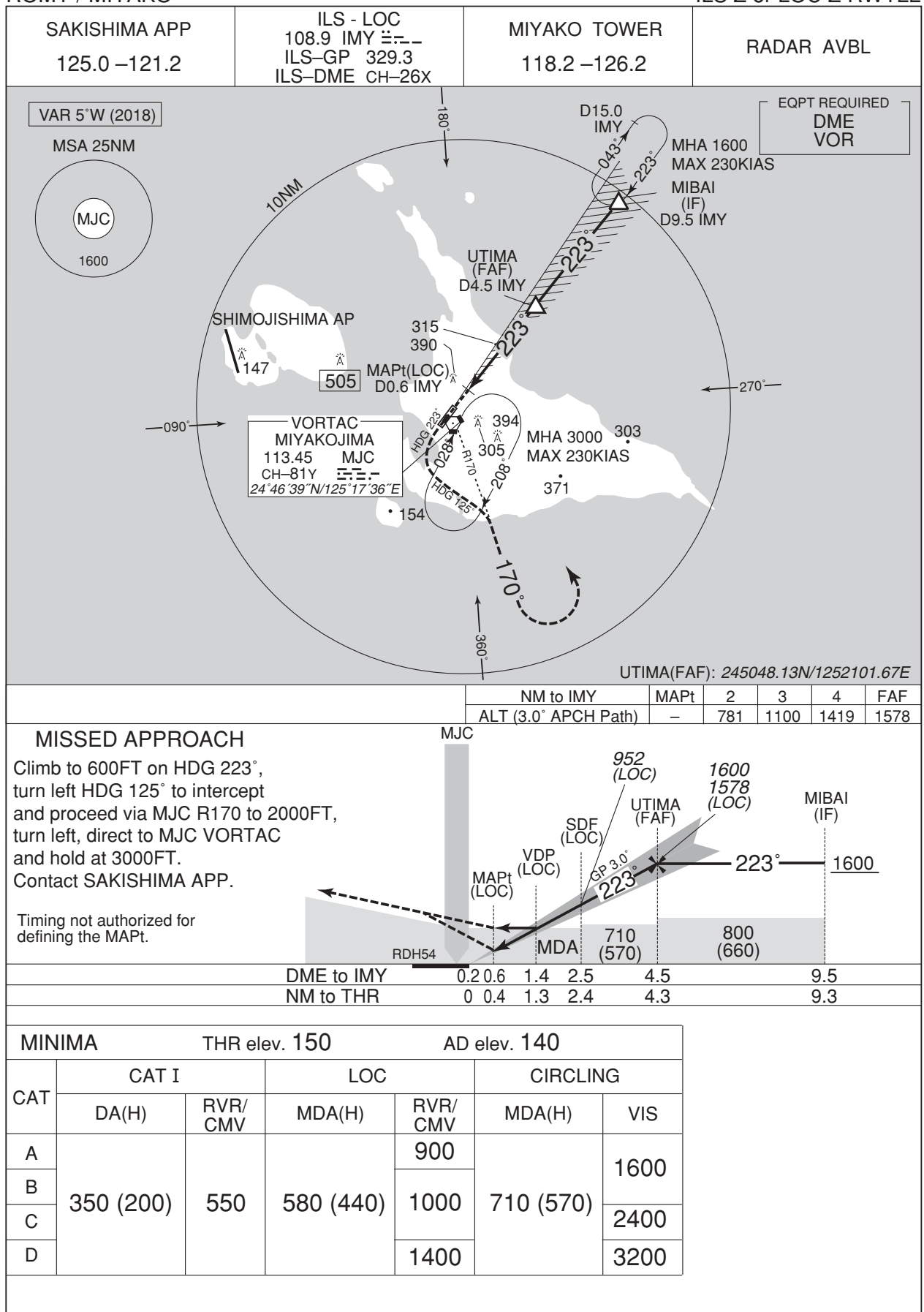
| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | YUTAH | — | — | -5.1 | — | — | — | — | — | RNAV1 |
| 002 | TF | MIBAI | — | 218 (212.7) | -5.1 | 31.3 | — | +1600 | — | — | RNAV1 |

CHANGE : VAR. PROC course.

INSTRUMENT APPROACH CHART

ROMY / MIYAKO

ILS Z or LOC Z RWY22



INSTRUMENT APPROACH CHART

ROMY / MIYAKO

ILS Y or LOC Y RWY22



MISSED APPROACH

Climb to 600FT on HDG 223°, turn left HDG 125° to intercept and proceed via MJC R170 to 2000FT, turn left, direct to MJC VORTAC and hold at 3000FT. Contact SAKISHIMA APP.

Timing not authorized for defining the MAPt.



| | | | | | |
|------------|-----|-----|-----|-----|-----|
| DME to IMY | 0.2 | 0.6 | 1.4 | 2.5 | 4.5 |
| NM to THR | 0 | 0.4 | 1.3 | 2.4 | 4.3 |

| MINIMA | | THR elev. 150 | | AD elev. 140 | | |
|--------|-----------|---------------|-----------|--------------|-----------|------|
| CAT | CAT I | | LOC | | CIRCLING | |
| | DA(H) | RVR/ CMV | MDA(H) | RVR/ CMV | MDA(H) | VIS |
| A | 350 (200) | 550 | 580 (440) | 900 | 710 (570) | 1600 |
| B | | | | 1000 | | 2400 |
| C | | | | | | |
| D | | | | | | |

INSTRUMENT APPROACH CHART

ROMY / MIYAKO

VOR RWY04



INSTRUMENT APPROACH CHART

ROMY / MIYAKO

VOR RWY22



INSTRUMENT APPROACH CHART

ROMY / MIYAKO

SAKISHIMA APP
125.0 –121.21.DME/DME not authorized.
2.RADAR service required.
3.GNSS required.MIYAKO TOWER
118.2 –126.2

RNAV(GNSS) Z RWY04

RADAR AVBL

Baro-VNAV not authorized below 0°C

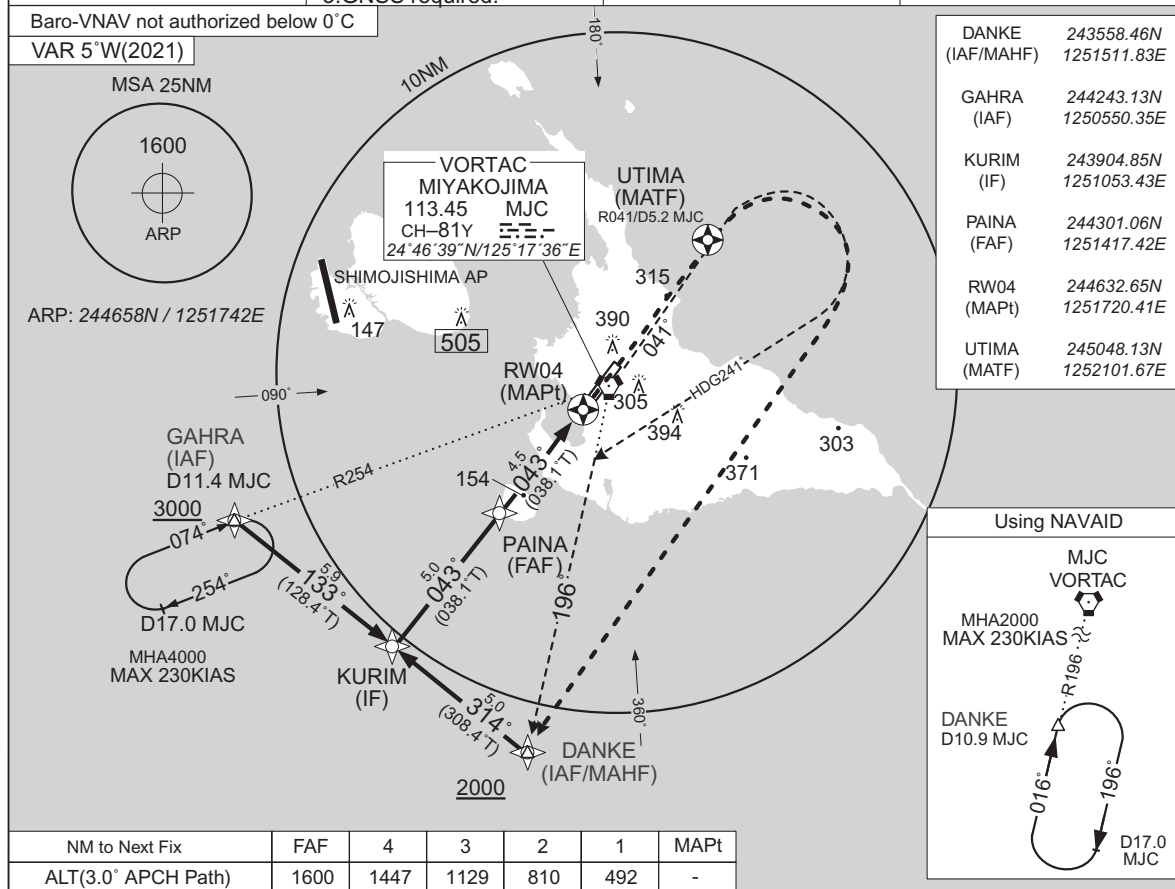
VAR 5°W(2021)

MSA 25NM

1600

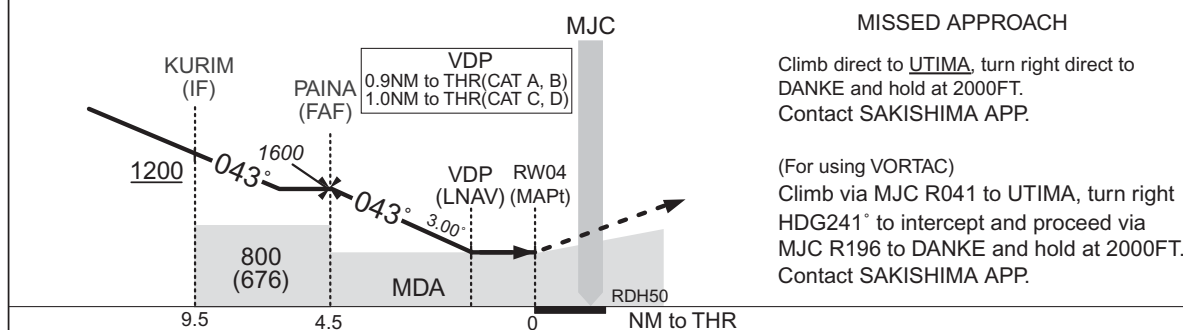
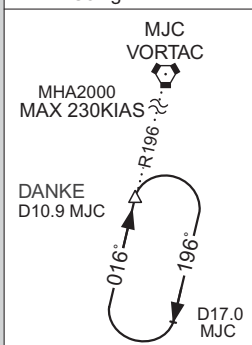
ARP

ARP: 244658N / 1251742E



| | |
|------------------|---------------------------|
| DANKE (IAF/MAHF) | 243558.46N 1251511.83E |
| GAHRA (IAF) | 244243.13N 1250550.35E |
| KURIM (IF) | 243904.85N 1251053.43E |
| PAINA (FAF) | 244301.06N 1251417.42E |
| RW04 (MAPt) | 244632.65N 1251720.41E |
| UTIMA (MATF) | 245048.13N 1252101.67E |

Using NAVAID



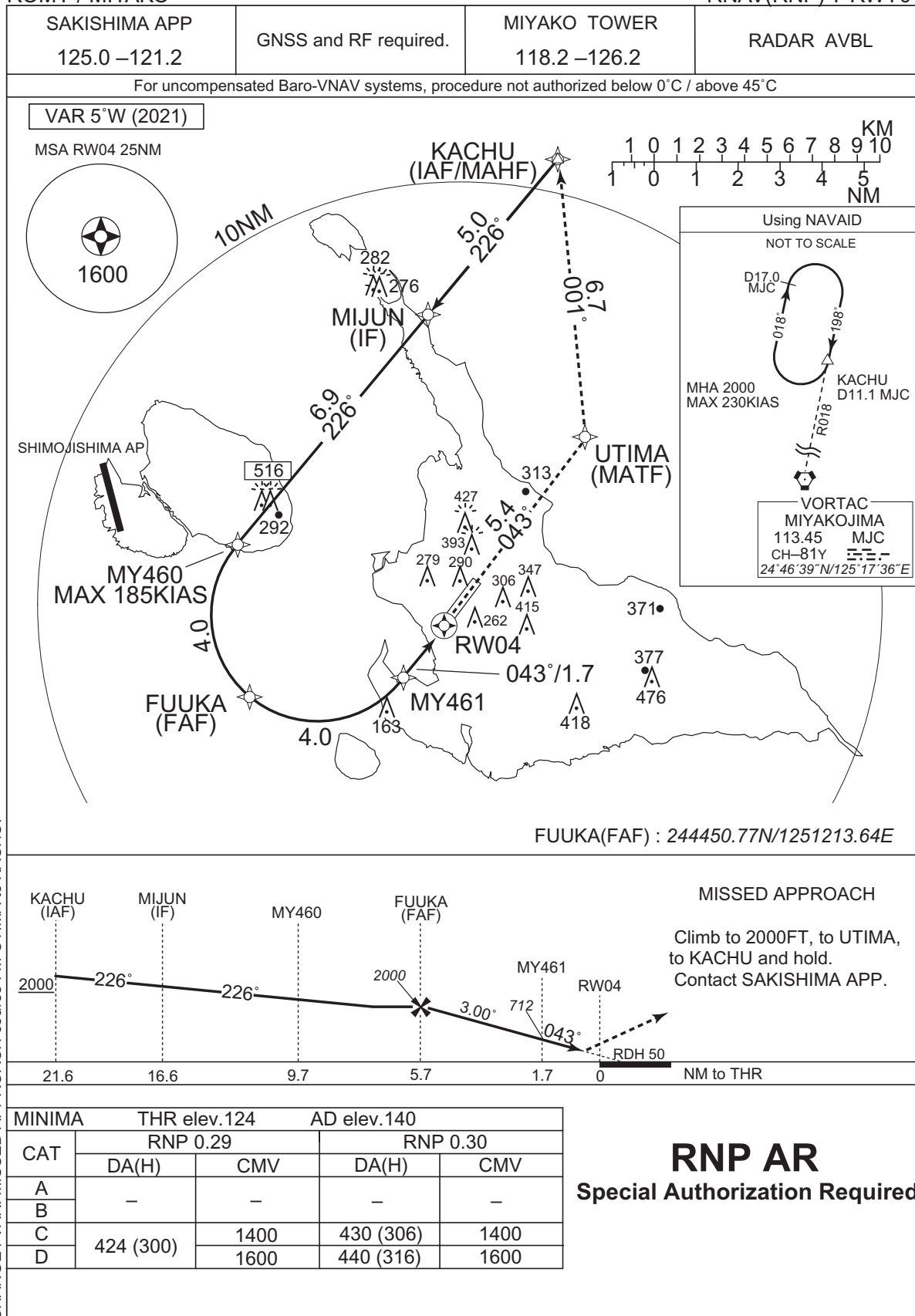
| MINIMA | | THR elev. 124 | | AD elev. 140 | |
|--------|-----------|---------------|----------|--------------|---------------|
| CAT | LNAV/VNAV | | LNAV | | CIRCLING |
| | DA(H) | CMV | MDA(H) | CMV | MDA(H) VIS |
| A | 460(336) | 1200 | 460(336) | 1200 | 710(570) 1600 |
| B | | 1300 | | 1300 | |
| C | 480(356) | 1400 | 480(356) | 1400 | |
| D | | 1600 | | 1600 | |

CHANGE : VAR. Course FM DANKE to KURIM.

INSTRUMENT APPROACH CHART

ROMY / MIYAKO

RNAV(RNP) Y RWY04



CHANGE : VAR. MISSED APPROACH course FM UTIMA to KACHU.

INSTRUMENT APPROACH CHART

ROMY / MIYAKO

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 | KACHU | — | — | -5.1 | — | — | +2000 | — | — | — |
| 002 | TF | MIJUN | — | 226 (220.8) | -5.1 | 5.0 | — | — | — | — | 1.0 |
| 003 | TF | MY460 | — | 226 (220.7) | -5.1 | 6.9 | — | +2000 | -185 | — | 1.0 |
| 004 | RF Center: MYRF1 r=2.52NM | FUUKA | — | — | -5.1 | 4.0 | L | 2000 | — | — | 1.0 |
| 005 | RF Center: MYRF1 r=2.52NM | MY461 | — | — | -5.1 | 4.0 | L | 712 | — | -3.00 | 0.29 0.30 |
| 006 | TF | RW04 | Y | 043 (038.1) | -5.1 | 1.7 | — | 174 | — | -3.00/50 | 0.29 0.30 |
| 007 | TF | UTIMA | — | 043 (038.2) | -5.1 | 5.4 | — | — | — | — | 1.0 |
| 008 | TF | KACHU | — | 001 (355.6) | -5.1 | 6.7 | — | 2000 | — | — | 1.0 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|------------------------|--------------------------|------------------------|
| KACHU | 245726.14N/1252027.95E | MYRF1 | 244646.77N/1251400.81E |
| MIJUN | 245338.80N/1251651.84E | | |
| MY460 | 244826.09N/1251155.10E | | |
| FUUKA | 244450.77N/1251213.64E | | |
| MY461 | 244512.72N/1251611.26E | | |
| RW04 | 244632.65N/1251720.41E | | |
| UTIMA | 245048.13N/1252101.67E | | |

CHANGE : VAR. MISSED APPROACH course FM UTIMA to KACHU.

ROMY / MIYAKO

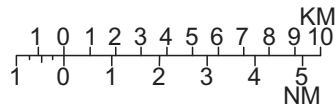
SAKISHIMA APP
125.0 – 121.2

MIYAKO TOWER
118.2–126.2

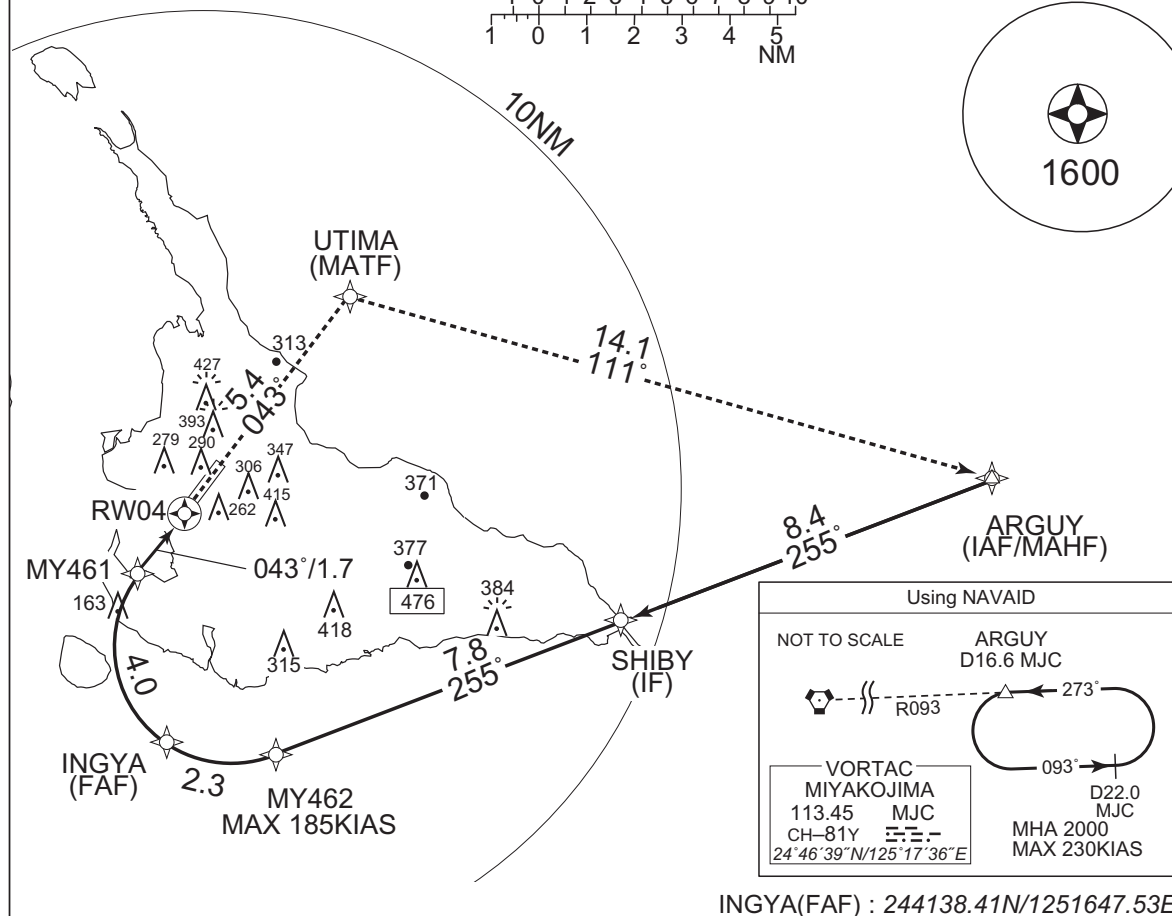
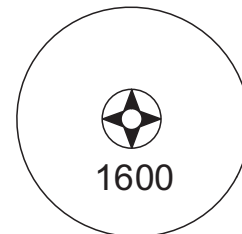
RADAR AVBL

For uncompensated Baro-VNAV systems, procedure not authorized below 0°C / above 45°C

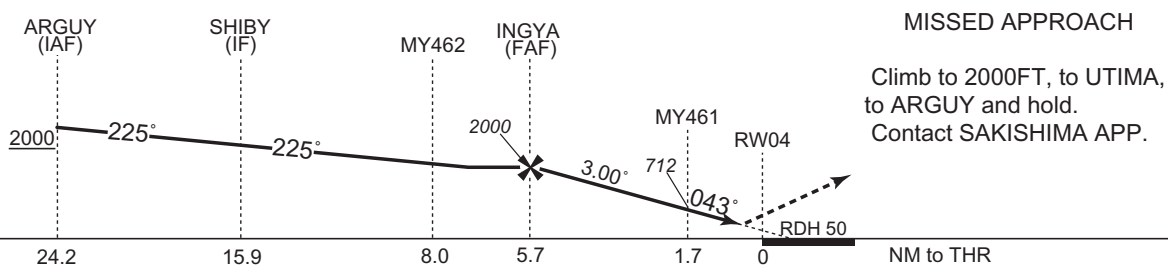
VAR 5°W (2021)



MSA RW04 25NM



INGYA(FAF) : 244138.41N/1251647.53E



Climb to 2000FT, to UTIMA,
to ARGUY and hold.
Contact SAKISHIMA APP.

| MINIMA | | THR elev.124 | AD elev.140 | |
|--------|-----------|--------------|-------------|------|
| CAT | RNP 0.29 | | RNP 0.30 | |
| | DA(H) | CMV | DA(H) | CMV |
| A | — | — | — | — |
| B | | | | |
| C | 424 (300) | 1400 | 430 (306) | 1400 |
| D | | 1600 | 440 (316) | 1600 |

CHANGE : VAR.

RNP AR
Special Authorization Required

INSTRUMENT APPROACH CHART

ROMY / MIYAKO

RNAV(RNP) X RWY04

RNAV(RNP) X RWY04Coding Table

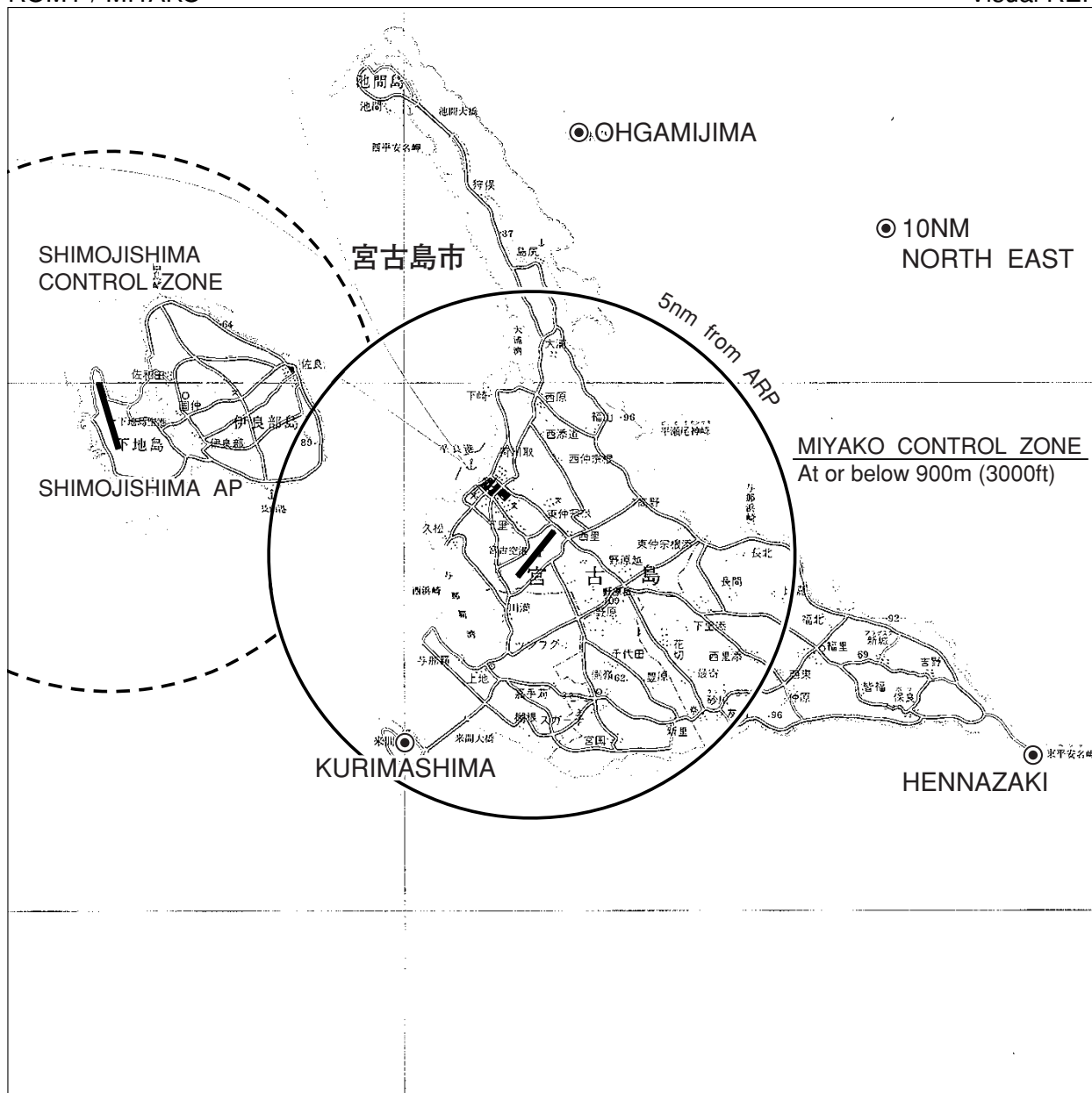
| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | VPA/ RDH (°/FT) | RNP Value |
|---------------|------------------------------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|-----------------|--------------|
| 001 | IF | ARGUY | — | — | -5.1 | — | — | +2000 | — | — | — |
| 002 | TF | SHIBY | — | 255 (250.0) | -5.1 | 8.4 | — | — | — | — | 1.0 |
| 003 | TF | MY462 | — | 255 (250.0) | -5.1 | 7.8 | — | +2000 | -185 | — | 1.0 |
| 004 | RF Center: MYRF2 r=2.46NM | INGYA | — | — | -5.1 | 2.3 | R | 2000 | — | — | 1.0 |
| 005 | RF Center: MYRF2 r=2.46NM | MY461 | — | — | -5.1 | 4.0 | R | 712 | — | -3.00 | 0.29 0.30 |
| 006 | TF | RW04 | Y | 043 (038.1) | -5.1 | 1.7 | — | 174 | — | -3.00/50 | 0.29 0.30 |
| 007 | TF | UTIMA | — | 043 (038.2) | -5.1 | 5.4 | — | — | — | — | 1.0 |
| 008 | TF | ARGUY | — | 111 (106.1) | -5.1 | 14.1 | — | 2000 | — | — | 1.0 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|------------------------|--------------------------|------------------------|
| ARGUY | 244652.87N/1253554.53E | MYRF2 | 244340.95N/1251818.44E |
| SHIBY | 244401.74N/1252716.29E | | |
| MY462 | 244121.83N/1251913.79E | | |
| INGYA | 244138.41N/1251647.53E | | |
| MY461 | 244512.72N/1251611.26E | | |
| RW04 | 244632.65N/1251720.41E | | |
| UTIMA | 245048.13N/1252101.67E | | |

CHANGE : VAR.

Visual REP



| Call sign | BRG / DIST from ARP | Remarks |
|----------------------|---------------------|--------------------|
| 10NM NORTH EAST | 045°/10.0NM | 海上 Over the sea |
| 大 神 島 Ohgamijima | 009°/ 8.0NM | 島 Island |
| 来 間 島 Kurimashima | 220°/ 4.5NM | 島 Island |
| 平 安 名 崎 Hennazaki | 115°/10.0NM | 灯台 Lighthouse |

Minimum Vectoring Altitude CHART

*1 : 244015N/1244143E RADIUS : 3NM
 *2 : 242248N/1240952E RADIUS : 3NM
 *3 : 242538N/1241100E RADIUS : 5NM
 *4 : 242850N/1260600E RADIUS : 8NM

CHANGE : Update(BTN RS020° and RS150°).