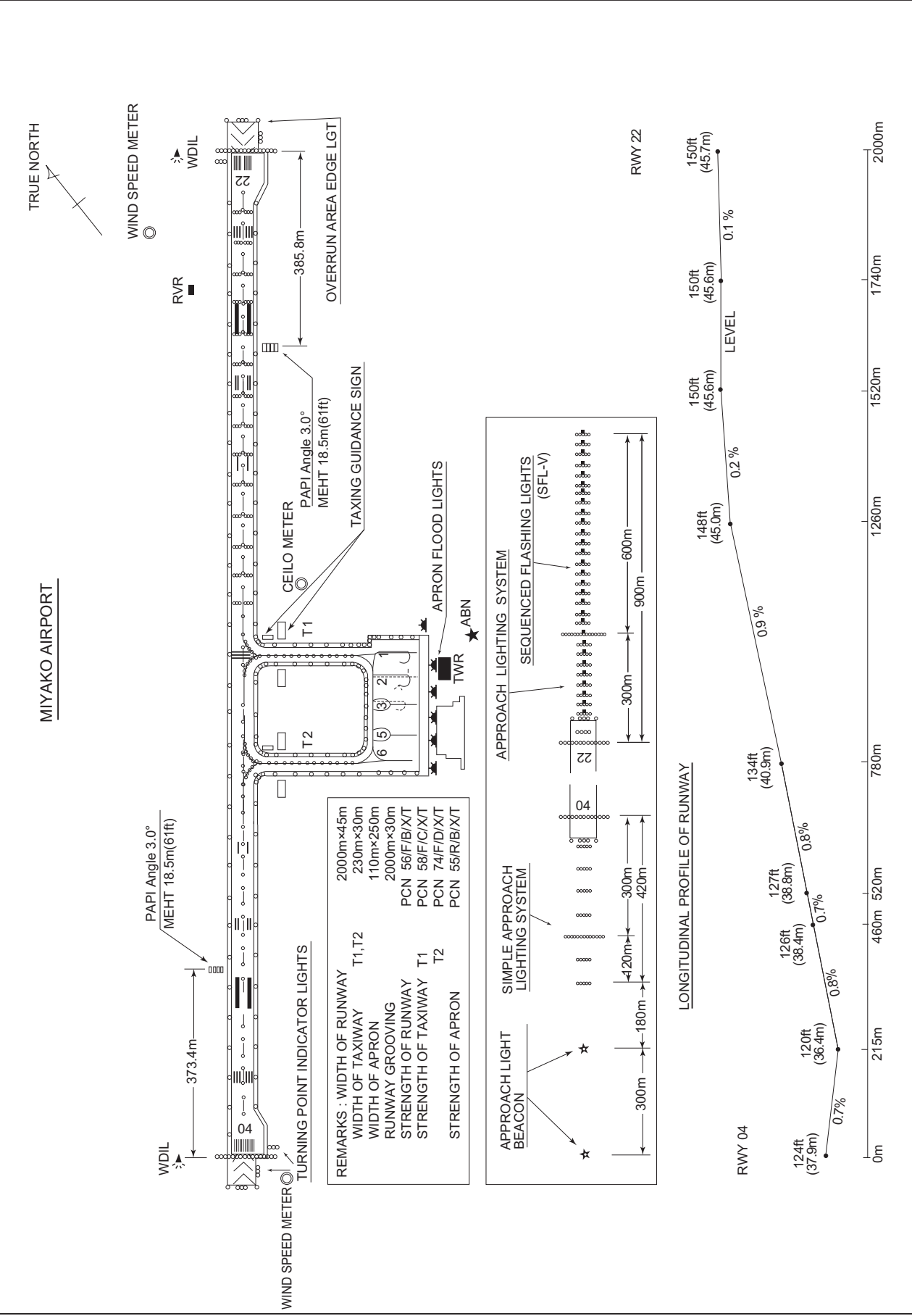


ROMY / MIYAKO

AD CHART



INTENTIONALLY LEFT BLANK

STANDARD DEPARTURE CHART -INSTRUMENT

ROMY / MIYAKO

RNAV SID

| TORII TWO DEPARTURE | | | RNAV1 |
|--|-----------------------|--|-------|
| NOTE 1) GNSS required. 2) RADAR service required. | Critical DME | — | |
| | DME GAP | RWY04 : DER - TORII RWY22 : DER - TORII | |
| | Inappropriate NavAids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1. | |

VAR 5°W (2015)

VOR/DME
SHIMOJISHIMA
117.1 SJE
CH-118X
24°49'19"N/125°08'38"E
100FT

SHIMOJISHIMA
AP

VORTAC
MIYAKOJIMA
113.45 MJC
CH-81Y
24°46'39"N/125°17'36"E
200FT

TORII TWO DEPARTURE



TORII TWO DEPARTURE

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

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

TORII TWO 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) | -4.5 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | SANIT | — | — | -4.5 | — | R | — | — | — | RNAV1 |
| 003 | TF | TORII | — | 065 (060.7) | -4.5 | 23.5 | — | — | — | — | 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) | -4.5 | — | — | +600 | — | — | RNAV1 |
| 002 | DF | SANIT | — | — | -4.5 | — | L | — | — | — | RNAV1 |
| 003 | TF | TORII | — | 065 (060.7) | -4.5 | 23.5 | — | — | — | — | RNAV1 |

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) | -4.5 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | WAIDO | — | — | -4.5 | — | R | +3000 | — | — | RNAV1 |
| 003 | TF | UMAKI | — | 266 (261.0) | -4.5 | 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) | -4.5 | — | — | +600 | — | — | RNAV1 |
| 002 | DF | UMAKI | — | — | -4.5 | — | 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 | — | — | -4.5 | — | — | +3000 | — | — | RNAV1 |
| 002 | TF | YUNTA | — | 266 (261.7) | -4.5 | 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 | — | — | -4.5 | — | — | +3000 | — | — | RNAV1 |
| 002 | TF | YAIMA | — | 239 (234.5) | -4.5 | 44.0 | — | — | -230 | — | RNAV1 |
| 003 | TF | JOTTO | — | 310 (305.5) | -4.5 | 5.0 | — | +3000 | — | — | RNAV1 |

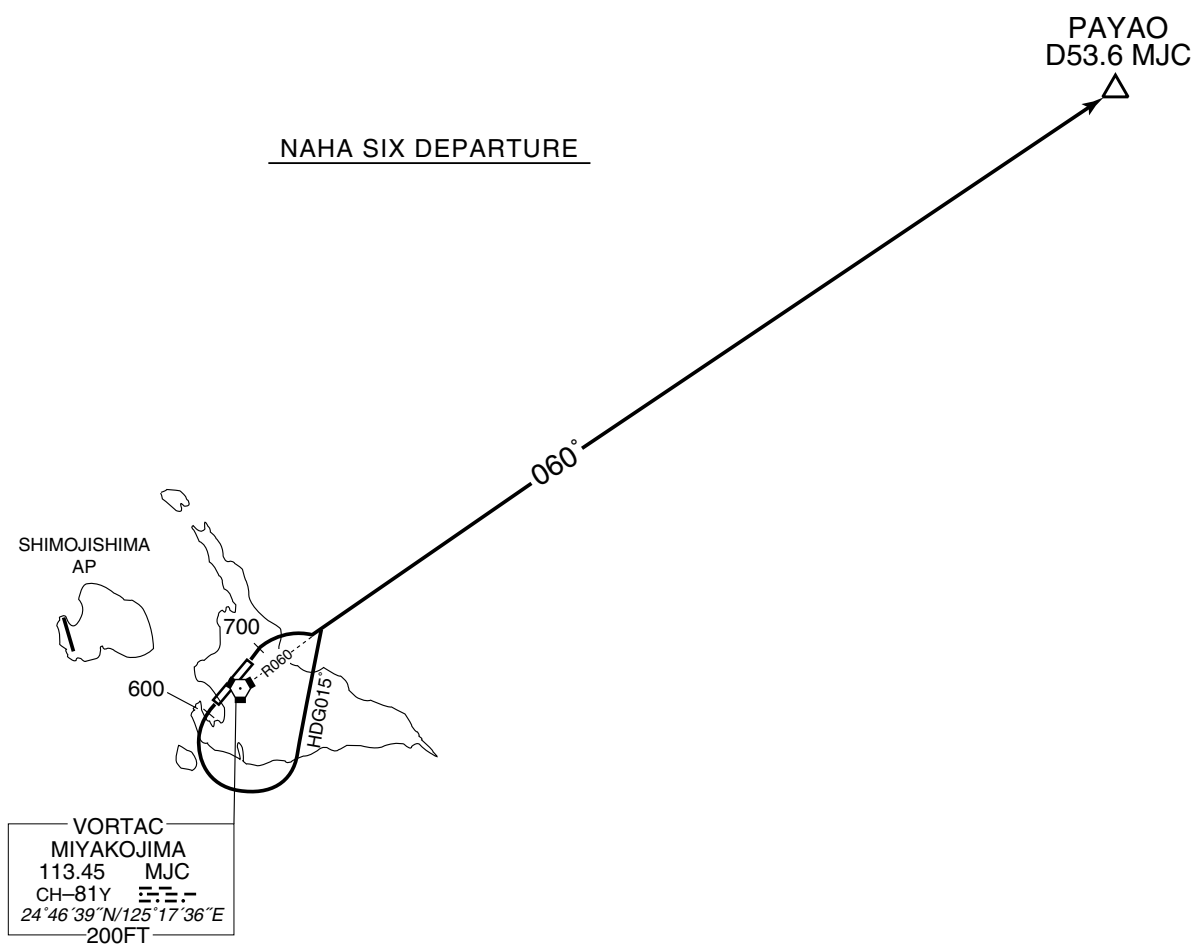
STANDARD DEPARTURE CHART -INSTRUMENT

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

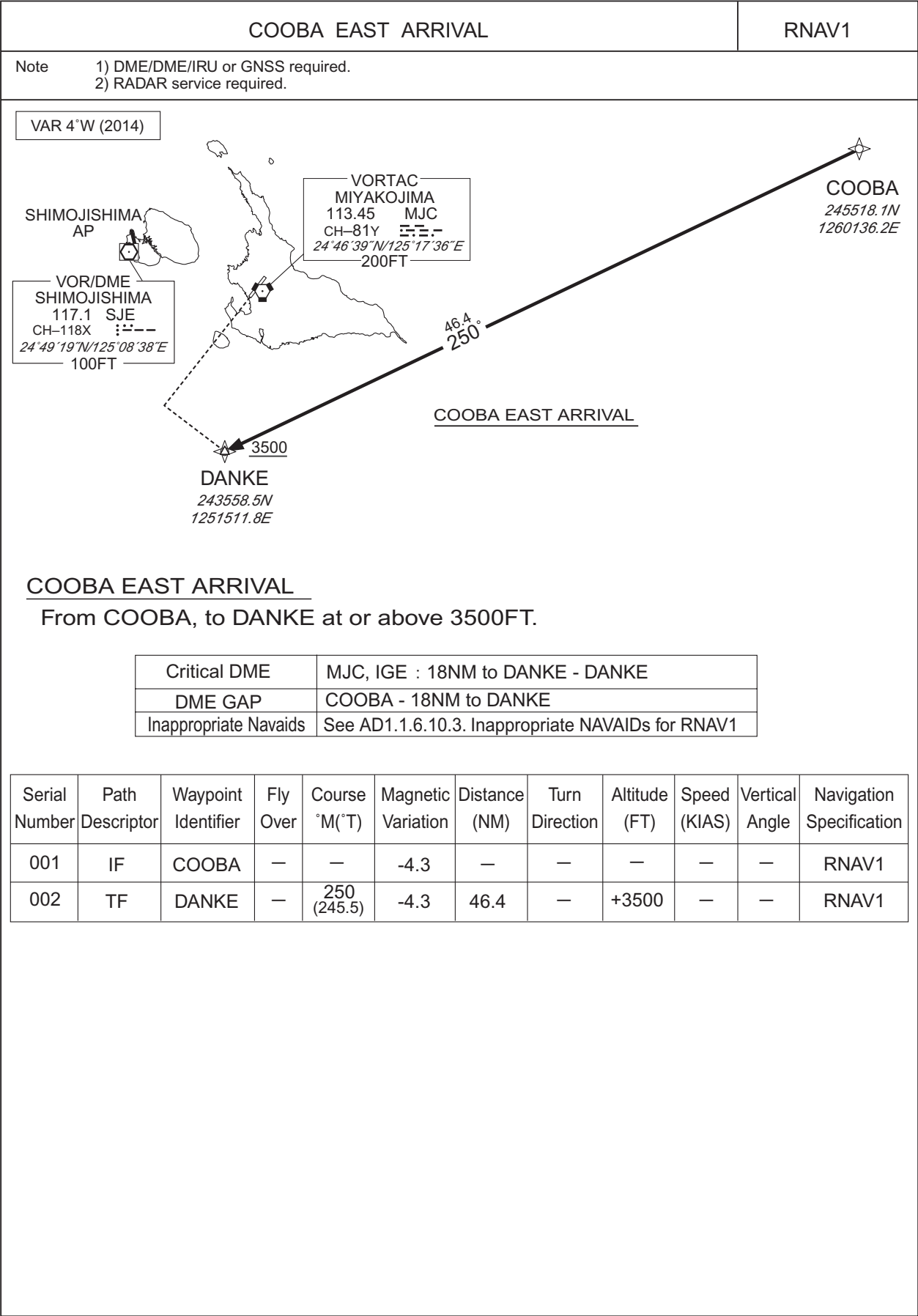
RWY 04 : Climb RWY HDG to 700FT, turn right...
RWY 22 : Climb RWY HDG to 600FT, turn right...
... to intercept and proceed via MJC R253 to SHUJI.
Cross SHUJI at or above 3000FT.



STANDARD ARRIVAL CHART - INSTRUMENT

ROMY / MIYAKO

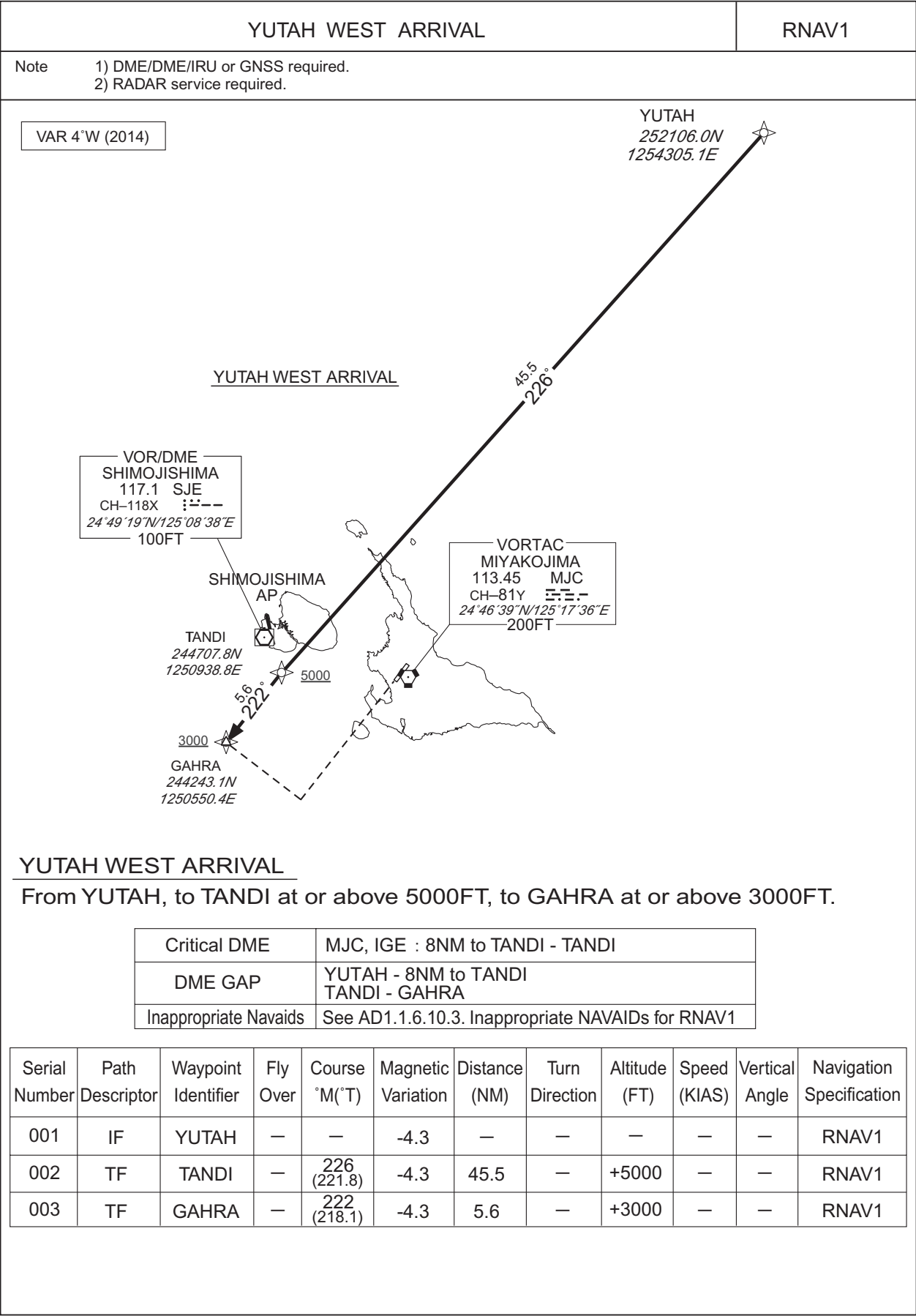
RNAV STAR RWY04



STANDARD ARRIVAL CHART - INSTRUMENT

ROMY / MIYAKO

RNAV STAR RWY04



STANDARD ARRIVAL CHART - INSTRUMENT

ROMY / MIYAKO

RNAV STAR RWY22



STANDARD ARRIVAL CHART - INSTRUMENT

ROMY / MIYAKO

RNAV STAR RWY22



CHANGE: ALT restriction added in Coding Table.

INSTRUMENT APPROACH CHART

ROMY / MIYAKO

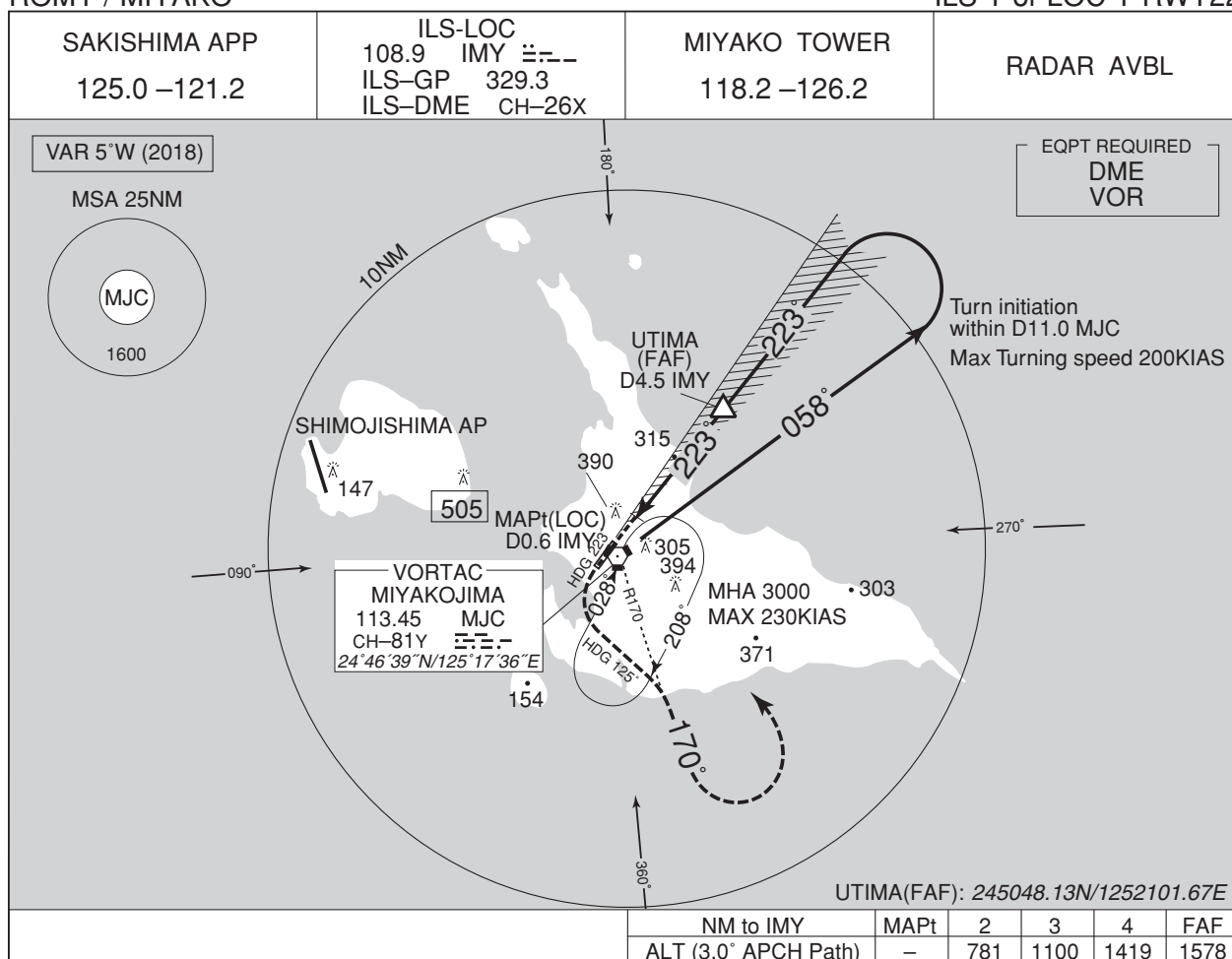
ILS Z or LOC Z RWY22



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



ROMY / MIYAKO

RNAV(GNSS) Z RWY04

MISSED APPROACH

Climb direct to UTIMA, turn right direct to DANKE and hold at 2000FT.
Contact SAKISHIMA APP.

(For using VORTAC)
Climb via MJC R041 to UTIMA, turn right HDG241° to intercept and proceed via MJC R196 to DANKE and hold at 2000FT.
Contact SAKISHIMA APP.

| <div> <div>9.5</div> <div>4.5</div> <div>0</div> <div>NM to THR</div> </div> | | | | | | |
|---|-----------|------|----------|------|----------|------|
| <div> <div>MINIMA</div> <div>THR elev. 124</div> <div>AD elev. 140</div> </div> | | | | | | |
| 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 | | 2400 |
| D | | 1600 | | 1600 | | 3200 |

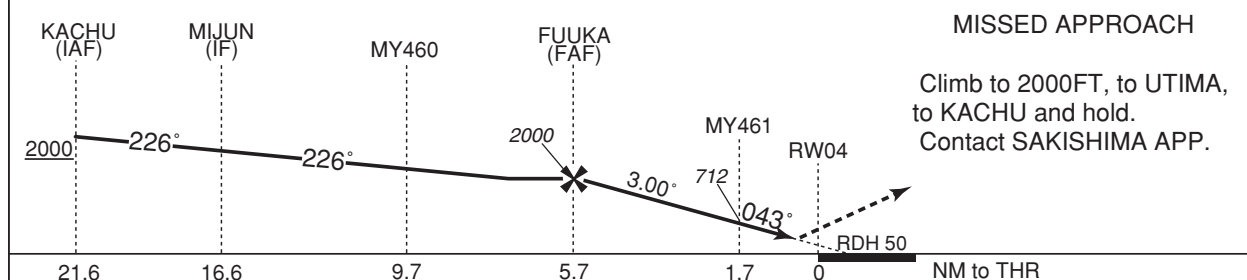
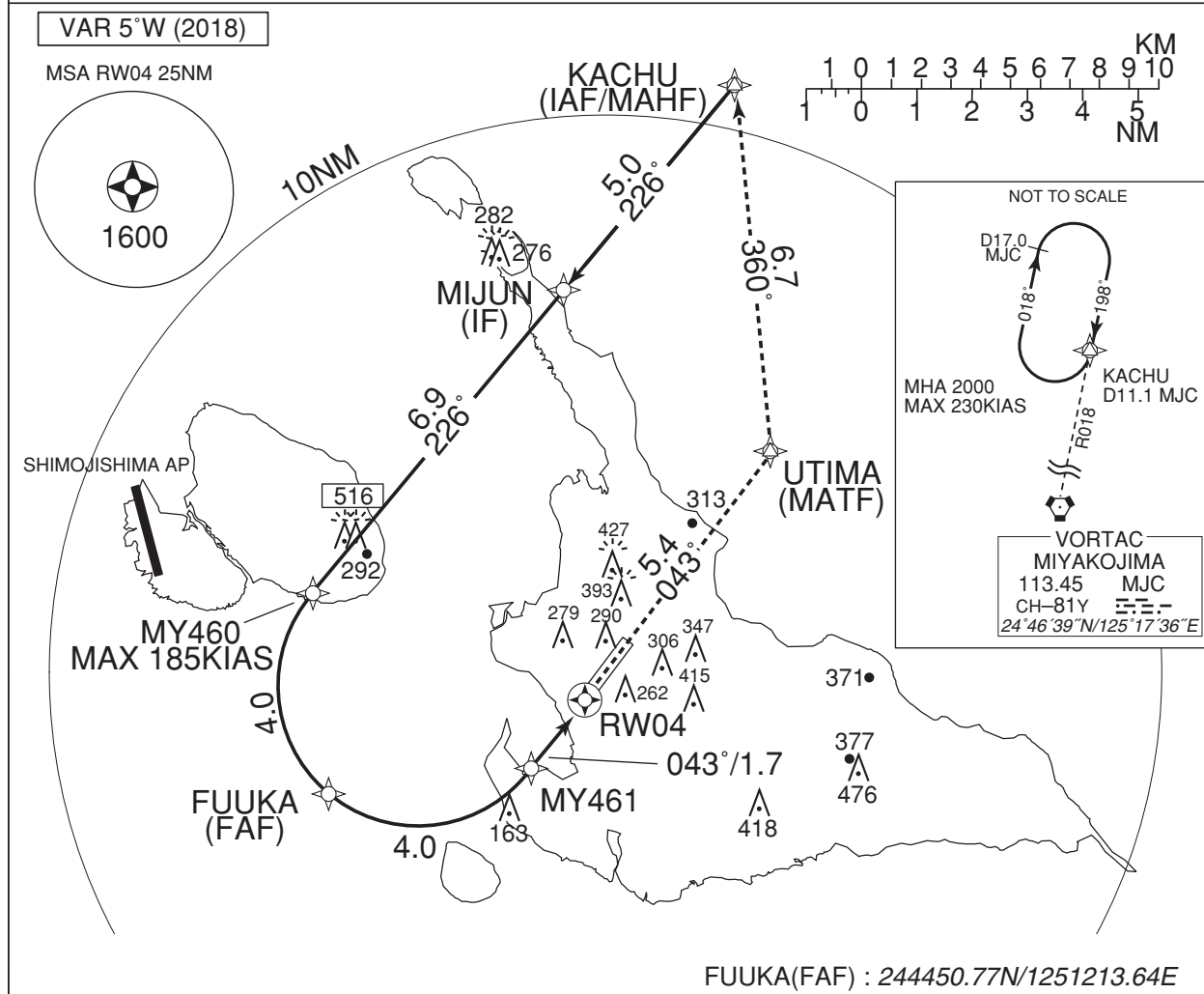
INSTRUMENT APPROACH CHART

ROMY / MIYAKO

RNAV(RNP) Y RWY04

| | | | |
|-------------------------------|-----------------------|------------------------------|------------|
| SAKISHIMA APP 125.0 –121.2 | GNSS and RF required. | MIYAKO TOWER 118.2 –126.2 | RADAR AVBL |
|-------------------------------|-----------------------|------------------------------|------------|

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



| 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 |

RNP AR

Special Authorization Required

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 | — | — | -4.8 | — | — | +2000 | — | — | — |
| 002 | TF | MIJUN | — | 226 (220.8) | -4.8 | 5.0 | — | — | — | — | 1.0 |
| 003 | TF | MY460 | — | 226 (220.7) | -4.8 | 6.9 | — | +2000 | -185 | — | 1.0 |
| 004 | RF Center: MYRF1 r=2.52NM | FUUKA | — | — | -4.8 | 4.0 | L | 2000 | — | — | 1.0 |
| 005 | RF Center: MYRF1 r=2.52NM | MY461 | — | — | -4.8 | 4.0 | L | 712 | — | -3.00 | 0.29 0.30 |
| 006 | TF | RW04 | Y | 043 (038.1) | -4.8 | 1.7 | — | 174 | — | -3.00/50 | 0.29 0.30 |
| 007 | TF | UTIMA | — | 043 (038.2) | -4.8 | 5.4 | — | — | — | — | 1.0 |
| 008 | TF | KACHU | — | 360 (355.6) | -4.8 | 6.7 | — | 2000 | — | — | 1.0 |

Waypoint Coordinates

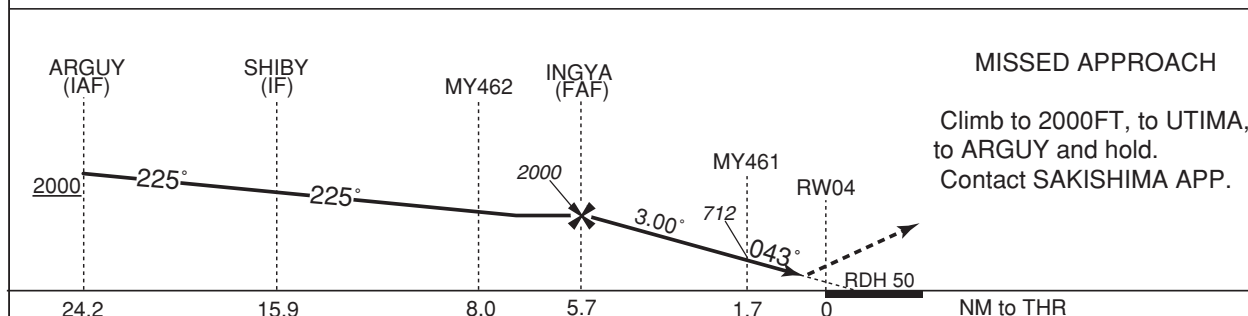
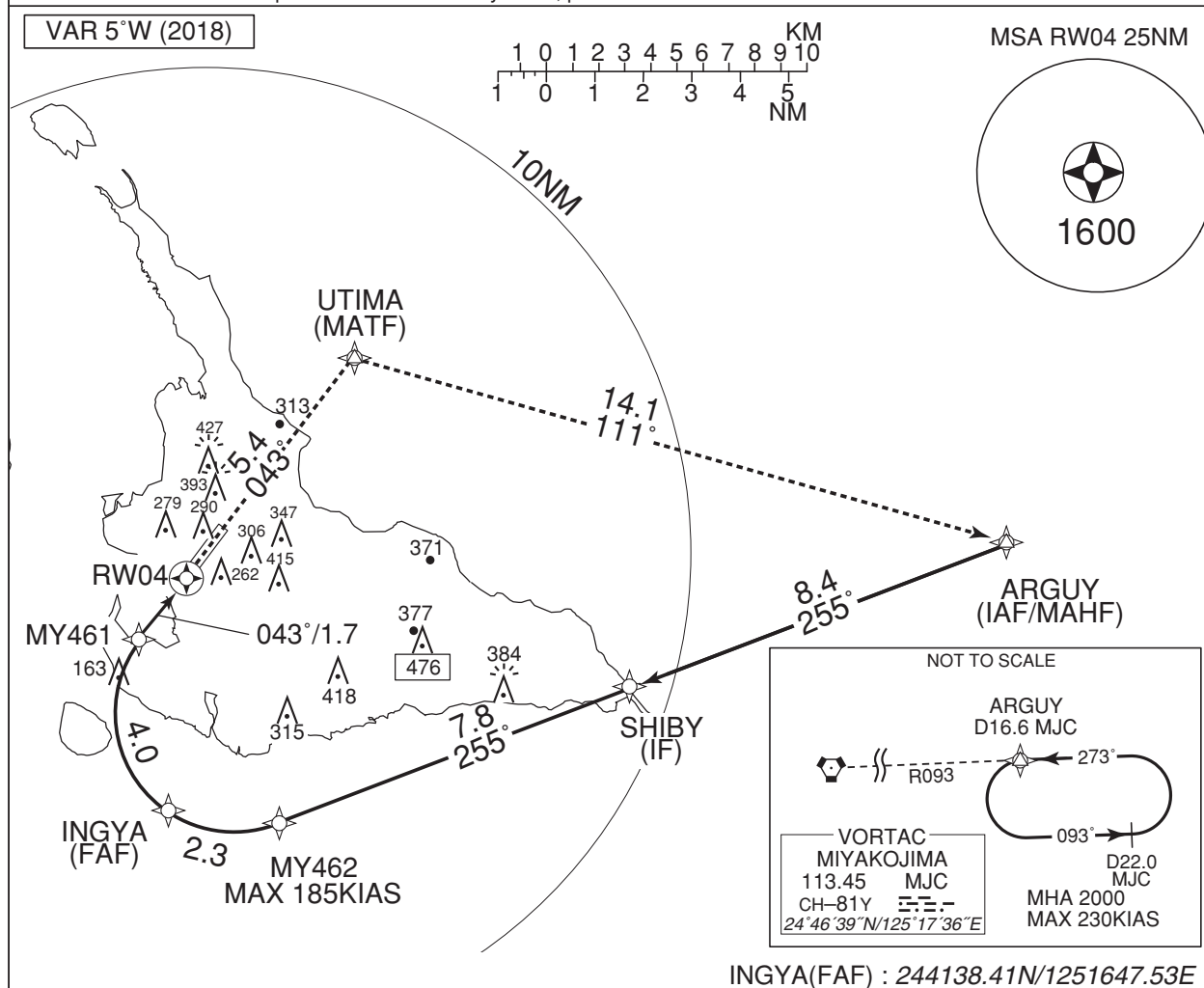
| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|------------------------|--------------------------|------------------------|
| KACHU | 245726.14N/1252027.95E | MYRF1 | 244646.77N/1251400.81E |
| MIJUN | 245338.80N/1251651.84E | | |
| MY460 | 244826.09N/1251155.10E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

ROMY / MIYAKO

RNAV(RNP) X RWY04

| | | | |
|-------------------------------|-----------------------|------------------------------|------------|
| SAKISHIMA APP 125.0 –121.2 | GNSS and RF required. | MIYAKO TOWER 118.2 –126.2 | RADAR AVBL |
|-------------------------------|-----------------------|------------------------------|------------|

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



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

RNP AR
Special Authorization Required

INSTRUMENT APPROACH CHART

ROMY / MIYAKO

RNAV(RNP) X RWY04

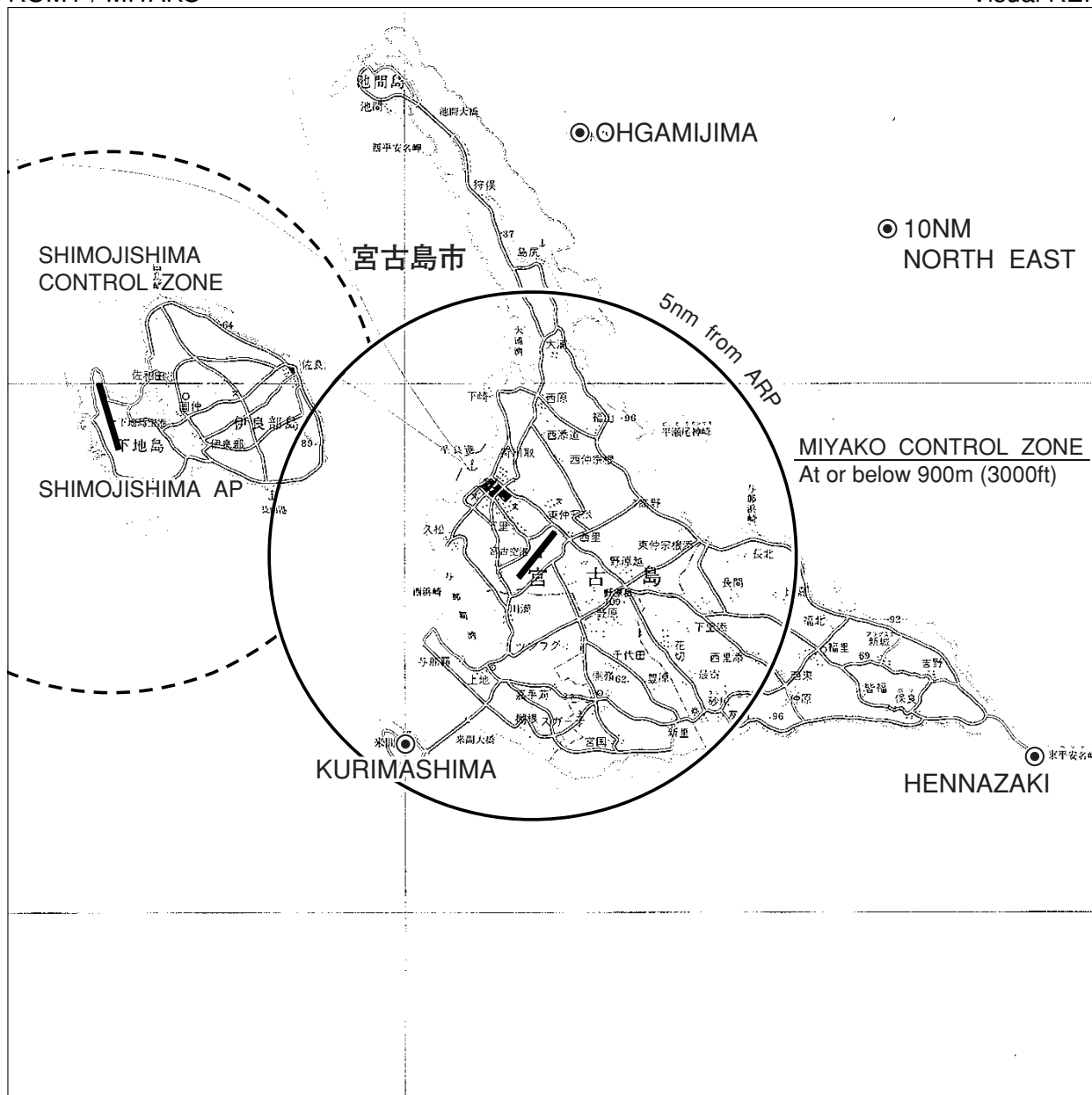
RNAV(RNP) X RWY04Coding Table

| 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 | — | — | -4.8 | — | — | +2000 | — | — | — |
| 002 | TF | SHIBY | — | 255 (250.0) | -4.8 | 8.4 | — | — | — | — | 1.0 |
| 003 | TF | MY462 | — | 255 (250.0) | -4.8 | 7.8 | — | +2000 | -185 | — | 1.0 |
| 004 | RF Center: MYRF2 r=2.46NM | INGYA | — | — | -4.8 | 2.3 | R | 2000 | — | — | 1.0 |
| 005 | RF Center: MYRF2 r=2.46NM | MY461 | — | — | -4.8 | 4.0 | R | 712 | — | -3.00 | 0.29 0.30 |
| 006 | TF | RW04 | Y | 043 (038.1) | -4.8 | 1.7 | — | 174 | — | -3.00/50 | 0.29 0.30 |
| 007 | TF | UTIMA | — | 043 (038.2) | -4.8 | 5.4 | — | — | — | — | 1.0 |
| 008 | TF | ARGUY | — | 111 (106.1) | -4.8 | 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 | | |

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 |

ROMY / MIYAKO

Minimum Vectoring Altitude CHART

VAR 4°W (2013)



CENTER : 244938N/1250827E (RORS RADAR SITE)
 CENTER : 242310N/1241441E (ROIG RADAR SITE)

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