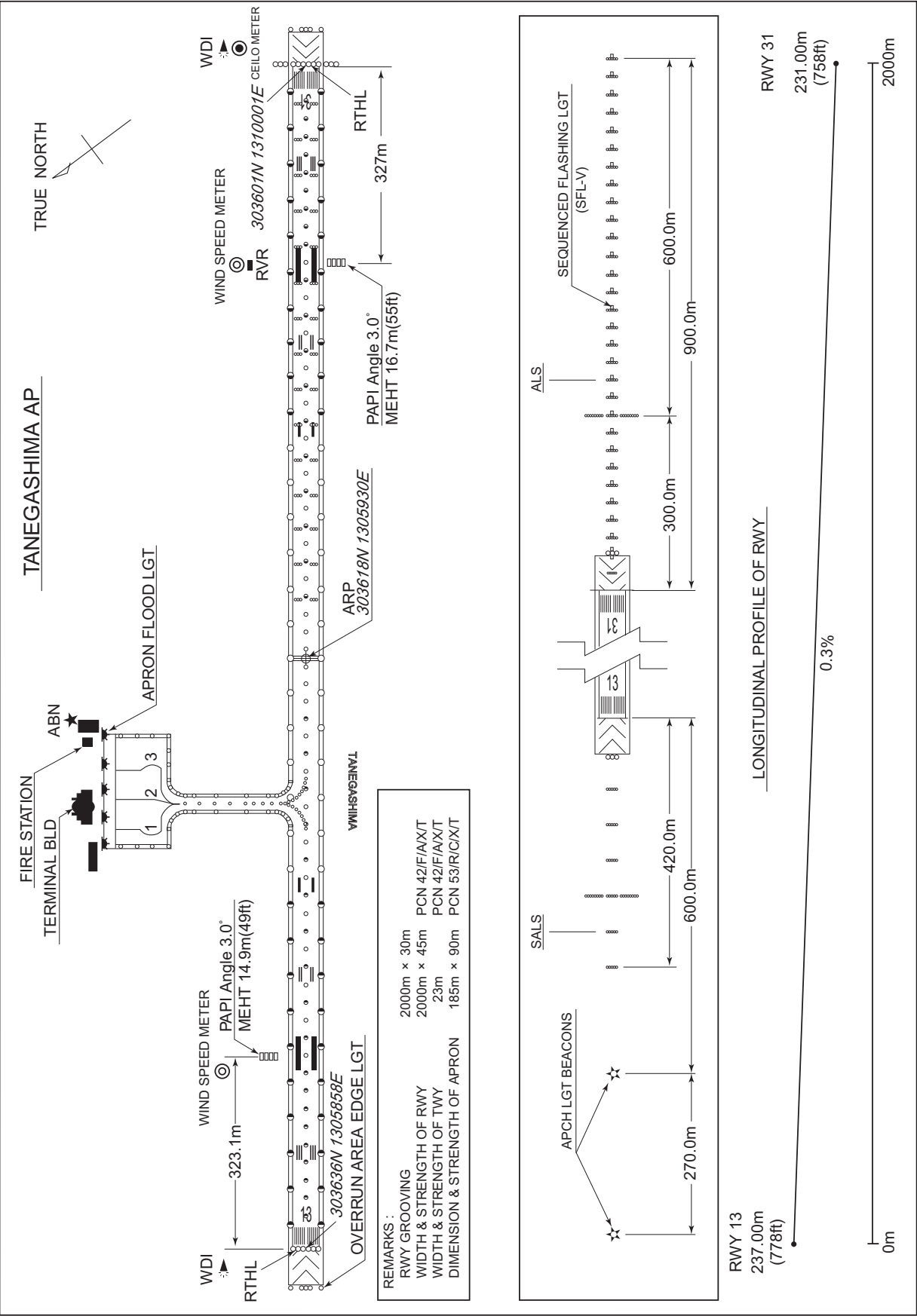


RJFG / TANEGASHIMA

AD CHART

CHANGE : CEILO METER, WIND SPEED METER added.



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STANDARD DEPARTURE CHART - INSTRUMENT

RJFG / TANEGASHIMA

SID

TANEGASHIMA REVERSAL THREE DEPARTURE

RWY 13 : Climb RWY HDG to TGE 5.6DME, turn right,...

RWY 31 : Climb RWY HDG to TGE 5.6DME, turn left,...

... direct to TGE VOR/DME.

Cross TGE VOR/DME at or above 4000FT.

CHANGE : PROC renamed. QUEEN TWO DEPARTURE, KINKO TWO DEPARTURE abolished. PROC course.



STANDARD DEPARTURE CHART -INSTRUMENT

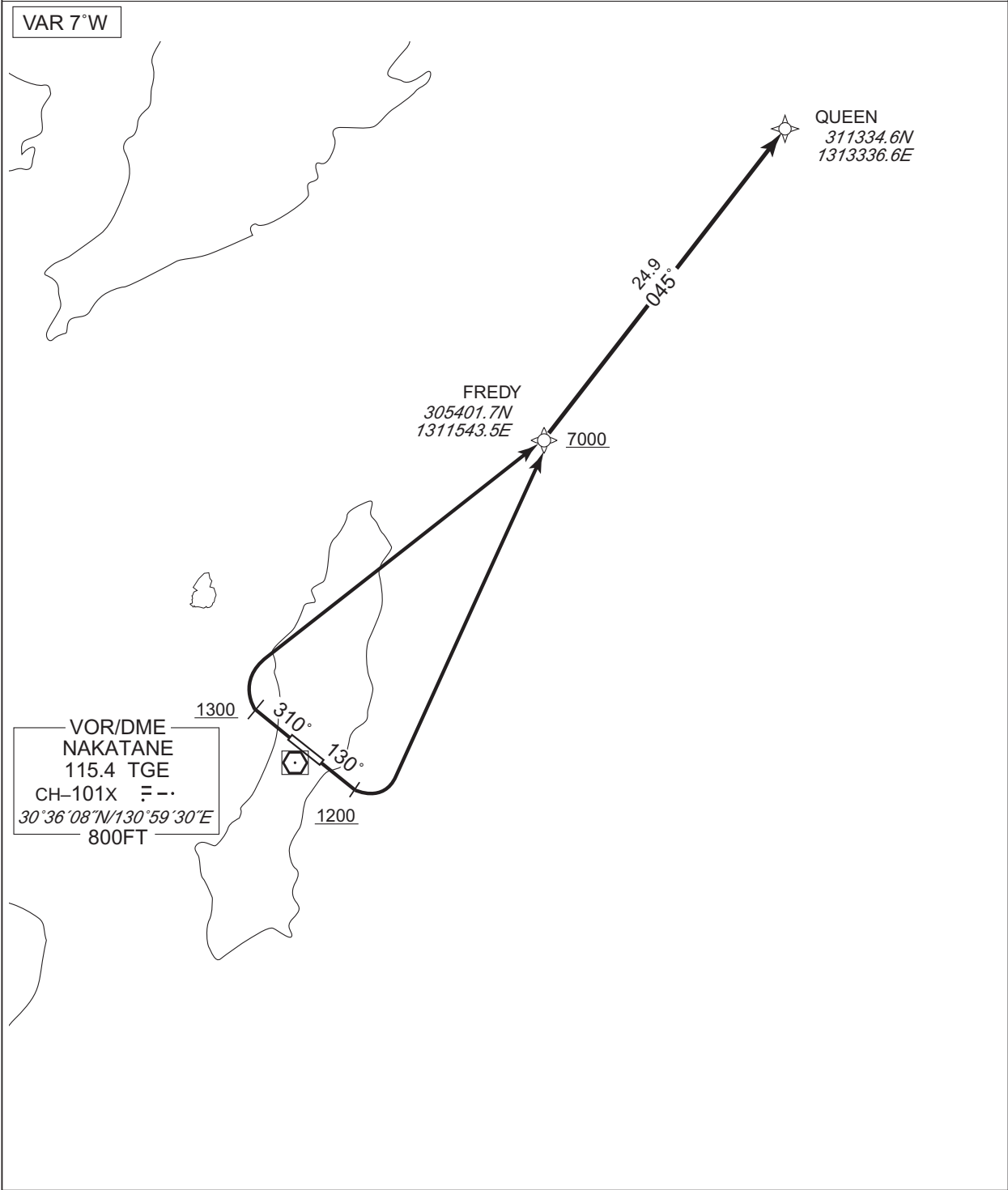
RJFG / TANEGASHIMA

RNAV SID

FREDY TWO DEPARTURE

Basic RNP1

Note GNSS required.



RWY13 : Climb on HDG 130° at or above 1200FT, turn left direct to FREDY at or above 7000FT, to QUEEN.

RWY31 : Climb on HDG 310° at or above 1300FT, turn right direct to FREDY at or above 7000FT, to QUEEN.

CHANGE : VAR. PROC renamed. PROC course.

STANDARD DEPARTURE CHART -INSTRUMENT

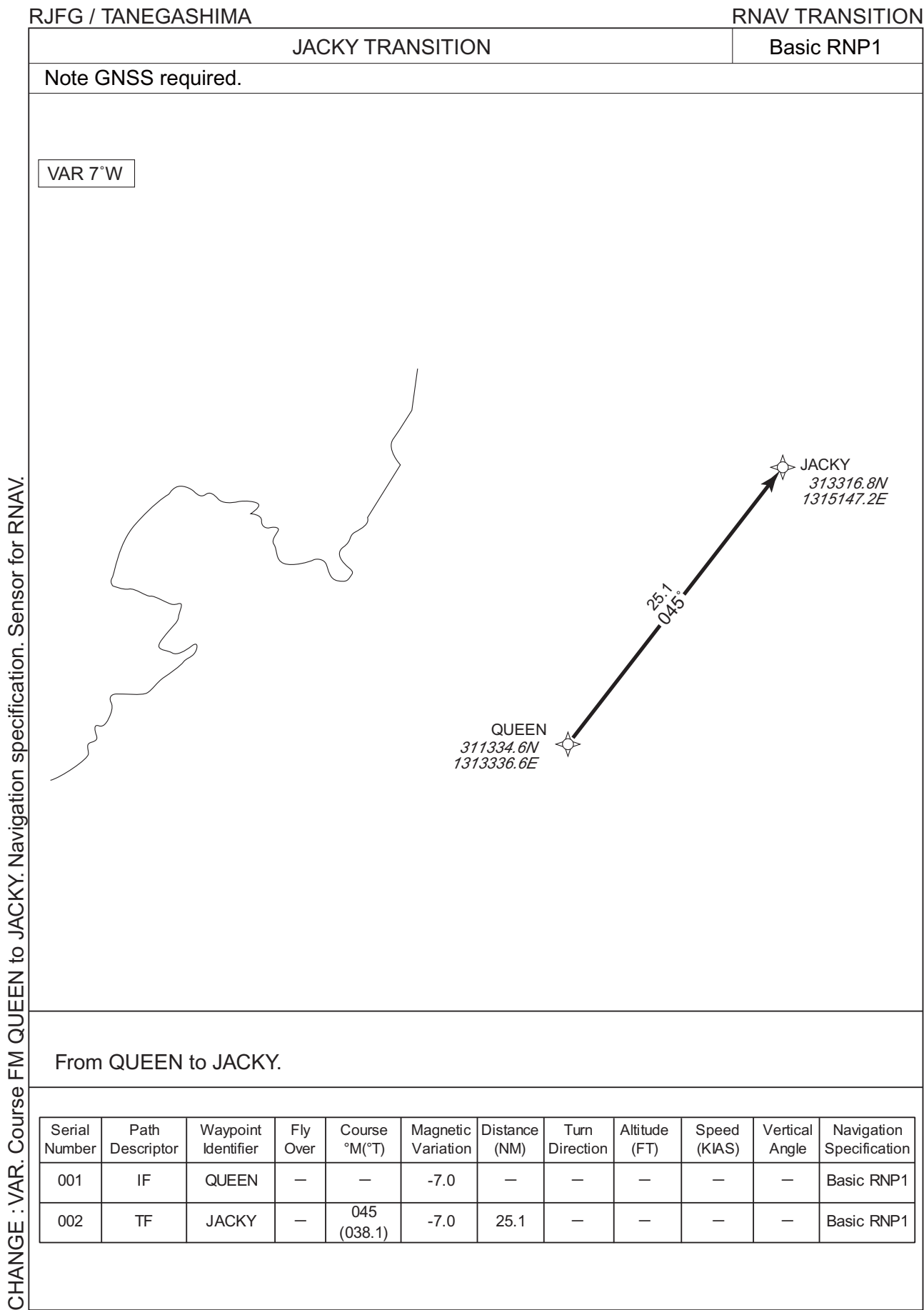
RJFG / TANEGASHIMA

RNAV SID

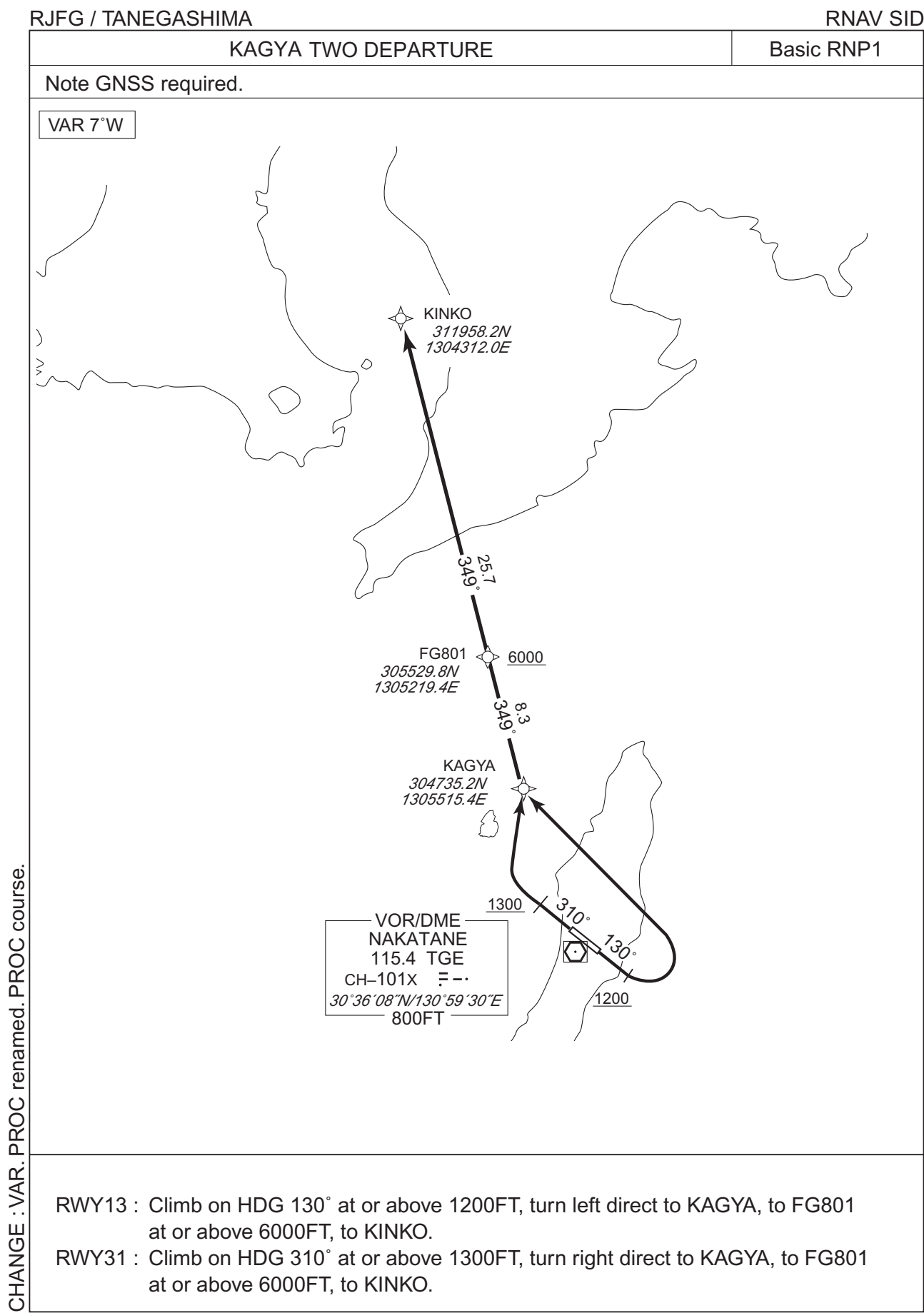
| | | | | | | | | | | | |
|---------------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| FREDY TWO DEPARTURE | | | | | | | | | | | |
| RWY13 | | | | | | | | | | | |
| 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 | — | — | 130 (123.0) | -7.0 | — | — | +1200 | — | — | Basic RNP1 |
| 002 | DF | FREDY | — | — | -7.0 | — | L | +7000 | — | — | Basic RNP1 |
| 003 | TF | QUEEN | — | 045 (038.0) | -7.0 | 24.9 | — | — | — | — | Basic RNP1 |
| RWY31 | | | | | | | | | | | |
| 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 | — | — | 310 (303.0) | -7.0 | — | — | +1300 | — | — | Basic RNP1 |
| 002 | DF | FREDY | — | — | -7.0 | — | R | +7000 | — | — | Basic RNP1 |
| 003 | TF | QUEEN | — | 045 (038.0) | -7.0 | 24.9 | — | — | — | — | Basic RNP1 |

CHANGE : VAR. PROC renamed. PROC course.

STANDARD DEPARTURE CHART -INSTRUMENT



STANDARD DEPARTURE CHART -INSTRUMENT



STANDARD DEPARTURE CHART -INSTRUMENT

RJFG / TANEGASHIMA

RNAV SID

KAGYA TWO DEPARTURE

RWY13

| 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 | — | — | 130 (123.0) | -7.0 | — | — | +1200 | — | — | Basic RNP1 |
| 002 | DF | KAGYA | — | — | -7.0 | — | L | — | — | — | Basic RNP1 |
| 003 | TF | FG801 | — | 349 (342.4) | -7.0 | 8.3 | — | +6000 | — | — | Basic RNP1 |
| 004 | TF | KINKO | — | 349 (342.3) | -7.0 | 25.7 | — | — | — | — | Basic RNP1 |

RWY31

| 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 | — | — | 310 (303.0) | -7.0 | — | — | +1300 | — | — | Basic RNP1 |
| 002 | DF | KAGYA | — | — | -7.0 | — | R | — | — | — | Basic RNP1 |
| 003 | TF | FG801 | — | 349 (342.4) | -7.0 | 8.3 | — | +6000 | — | — | Basic RNP1 |
| 004 | TF | KINKO | — | 349 (342.3) | -7.0 | 25.7 | — | — | — | — | Basic RNP1 |

CHANGE : VAR. PROC renamed. PROC course.

STANDARD ARRIVAL CHART - INSTRUMENT

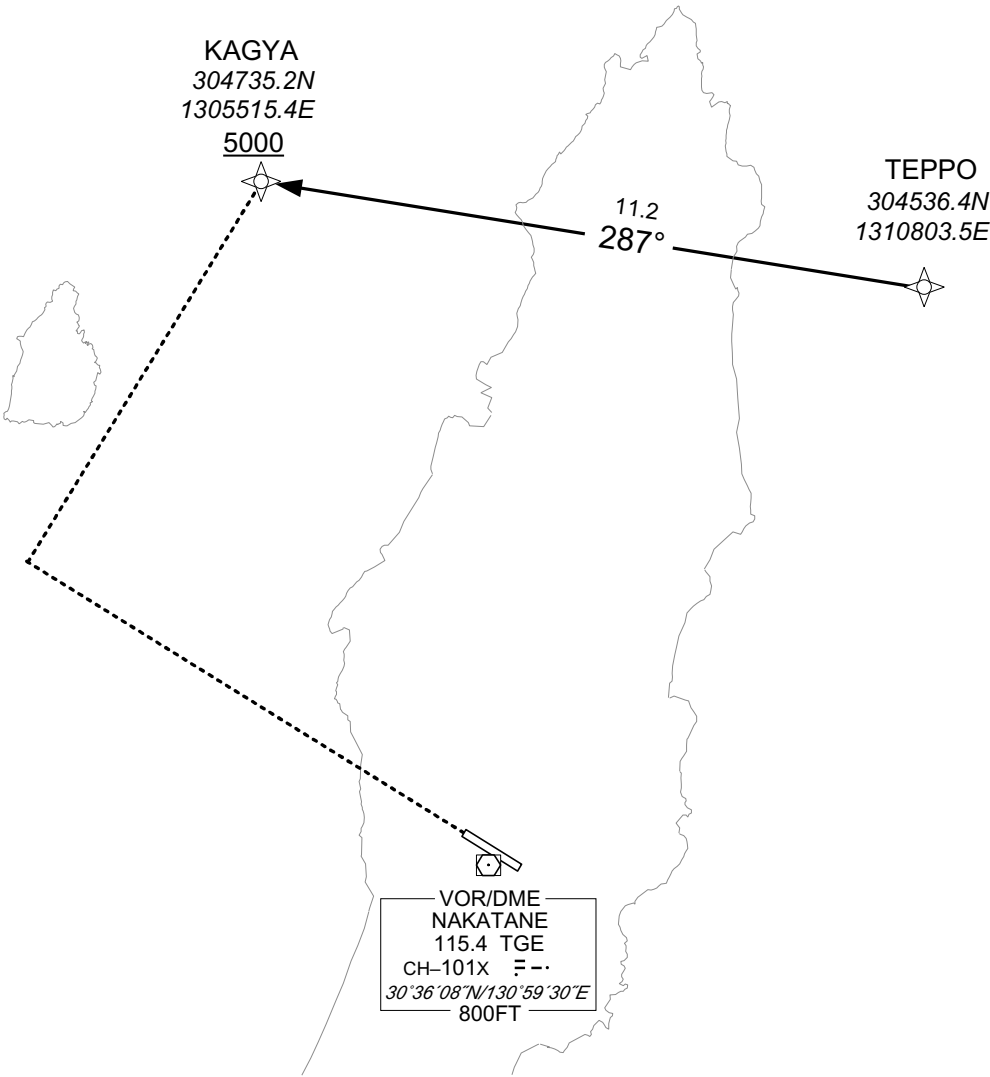
RJFG / TANEGASHIMA

RNAV STAR RWY13

| TEPPO ARRIVAL | Basic RNP1 |
|---------------|------------|
|---------------|------------|

Note GNSS required.

VAR 7°W



From TEPPO, to KAGYA at or above 5000FT.

| 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 | TEPPO | — | — | -7.0 | — | — | — | — | — | Basic RNP1 |
| 002 | TF | KAGYA | — | 287 (280.3) | -7.0 | 11.2 | — | +5000 | — | — | Basic RNP1 |

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INSTRUMENT APPROACH CHART

RJFG / TANEGASHIMA

ILS Z or LOC RWY31



MISSED APPROACH

Climb on HDG310° to 3000FT,
turn right, direct to TGE VOR/DME
and hold.
Contact TANEGASHIMA RADIO.

Timing not authorized for defining the MAPt.



| | | | | |
|------------|-----|-----|-----|-----|
| DME to ITN | 0.2 | 0.6 | 1.1 | 4.2 |
| NM to THR | 0 | 0.5 | 1.0 | 4.0 |

Missed APCH climb gradient MNM 4.0%

| MINIMA | | THR elev. 758 | | AD elev. 768 | | |
|--------|----------|---------------|-----------|--------------|------------|------|
| CAT | CAT I | | LOC | | CIRCLING | |
| | DA(H) | RVR/ CMV | MDA(H) | RVR/ CMV | MDA(H) | VIS |
| A | 958(200) | 550 | 1100(342) | 900 | 1500(732) | 1600 |
| B | | | | 1000 | | |
| C | | | | 1400 | 1800(1032) | 2400 |
| D | | | | | | 3200 |

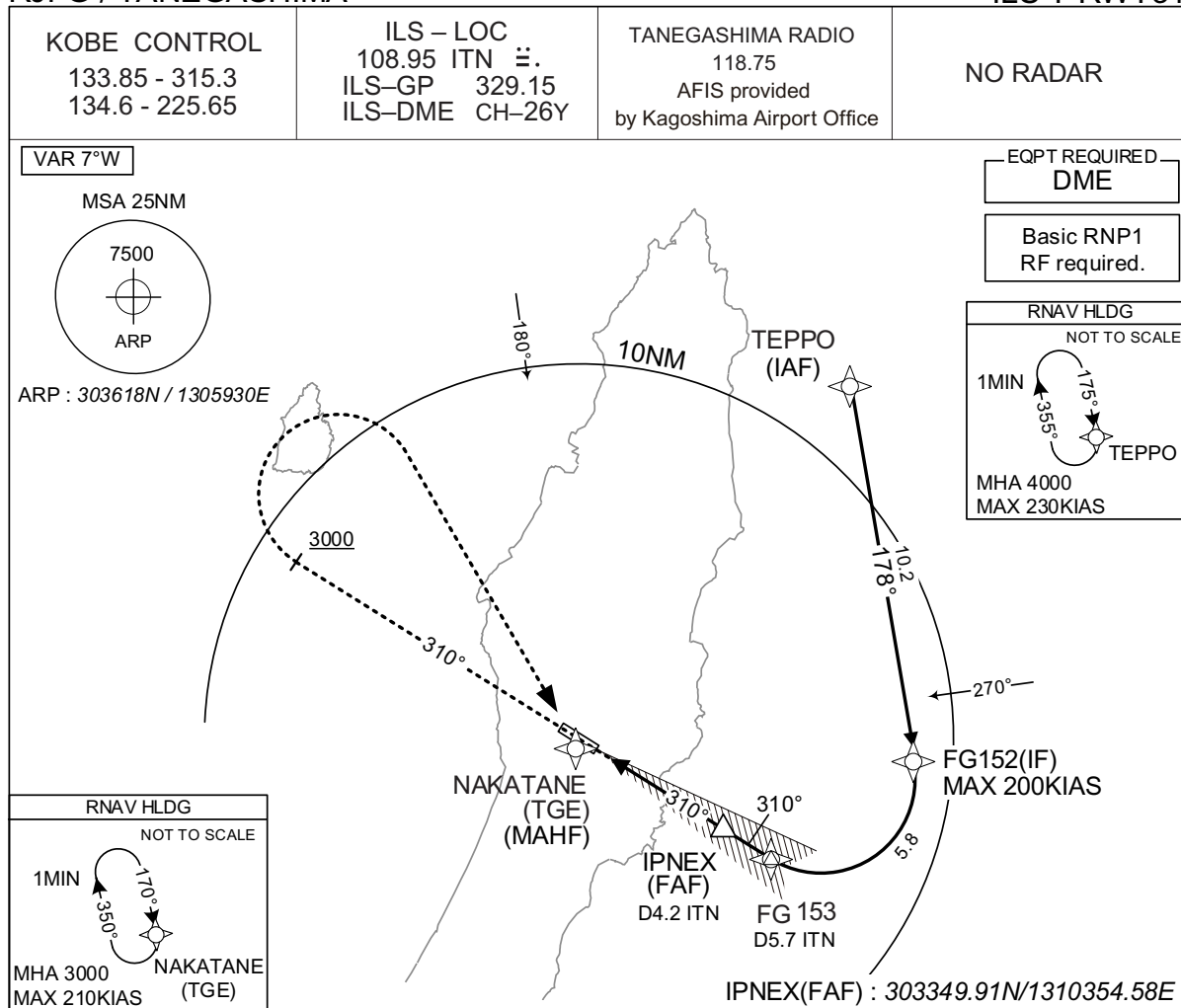
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to NORTH side of RWY only.

CHANGE : PROC renamed.

INSTRUMENT APPROACH CHART

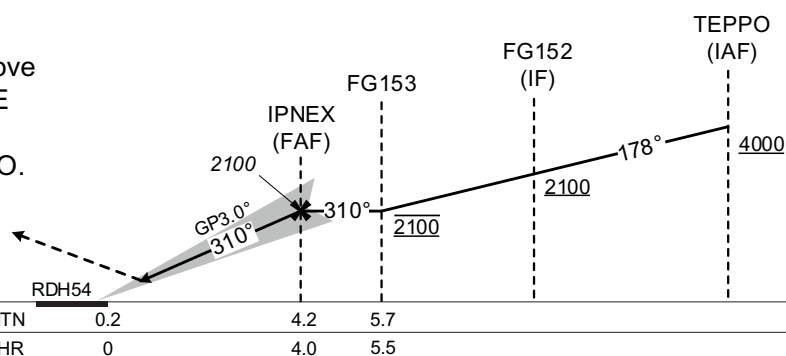
RJFG / TANEGASHIMA

ILS Y RWY31



MISSED APPROACH

Climb on course 310°, at or above 3000FT turn right, direct to TGE and hold at 3000FT.
Contact TANEGASHIMA RADIO.



Missed APCH climb gradient MNM 4.0%

| MINIMA | | THR elev. 758 | AD elev. 768 | |
|--------|----------|---------------|--------------|------|
| CAT | CAT I | | CIRCLING | |
| | DA(H) | RVR/CMV | MDA(H) | VIS |
| A | 958(200) | 550 | 1500(732) | 1600 |
| B | | | 1800(1032) | 2400 |
| C | | | | 3200 |
| D | | | | |

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

CHANGE : New PROC.

INSTRUMENT APPROACH CHART

RJFG / TANEGASHIMA

ILS Y RWY31

| Coding Table | | | | | | | | | | | |
|---------------|---------------------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 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 | TEPPO | — | — | -7.0 | — | — | +4000 | — | — | Basic RNP1 |
| 002 | TF | FG152 | — | 178 (171.4) | -7.0 | 10.2 | — | +2100 | -200 | — | Basic RNP1 |
| 003 | RF Center: FGRF1 r=2.51NM | FG153 | — | — | -7.0 | 5.8 | R | 2100 | — | — | Basic RNP1 |
| | | | | | | | | | | | |
| 001 | CA | — | — | 310 (303.0) | -7.0 | — | — | +3000 | — | — | Basic RNP1 |
| 002 | DF | TGE | — | — | -7.0 | — | R | 3000 | — | — | Basic RNP1 |

| 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 | TEPPO | 175 (168.4) | -7.0 | 1.0 (-14000) | R | 4000 | FL140 | -230(-14000) | Basic RNP1 |
| Hold | TGE | 170 (163.3) | -7.0 | 1.0 (-14000) | R | 3000 | FL140 | -210(-14000) | Basic RNP1 |

| Waypoint Coordinates | | | |
|----------------------|--------------------------|--------------------------|--------------------------|
| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
| TEPPO | 304536.42N / 1310803.50E | FGRF1 | 303507.53N / 1310656.98E |
| FG152 | 303530.12N / 1310949.53E | | |
| FG153 | 303300.85N / 1310522.05E | | |
| TGE | 303607.76N / 1305929.52E | | |

CHANGE : New PROC.

INSTRUMENT APPROACH CHART

RJFG / TANEGASHIMA

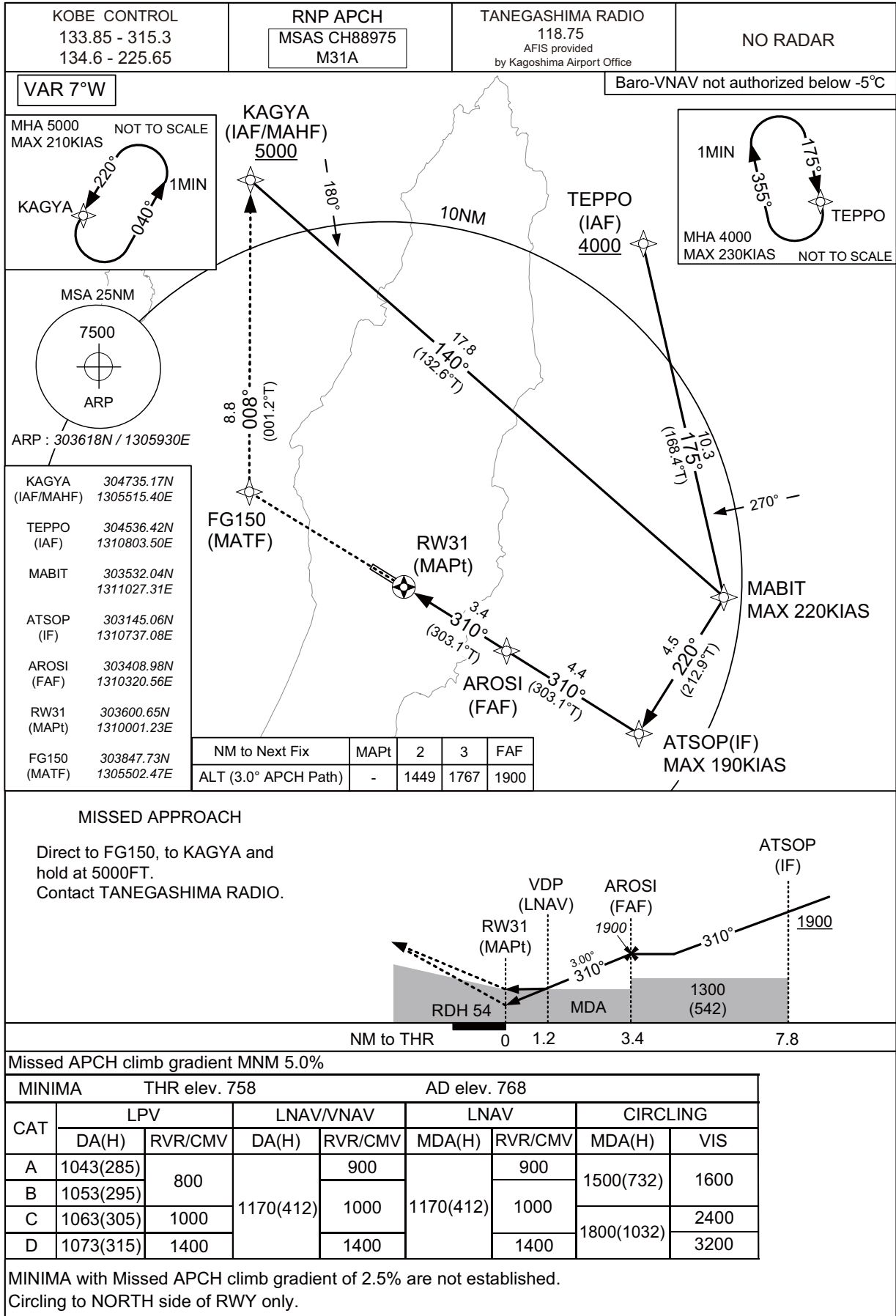
VOR RWY13



INSTRUMENT APPROACH CHART

RJFG / TANEGASHIMA

RNP RWY31



MISSED APPROACH

Direct to FG150, to KAGYA and hold at 5000FT.
Contact TANEGASHIMA RADIO.

ATSOP (IF)

1900

NM to THR01.23.47.8

Missed APCH climb gradient MNM 5.0%

| CAT | THR elev. 758 | | AD elev. 768 | | | | | |
|-----|---------------|---------|--------------|---------|-----------|------------|-----------|------|
| | LPV | | LNAV/VNAV | | LNAV | | CIRCLING | |
| | DA(H) | RVR/CMV | DA(H) | RVR/CMV | MDA(H) | RVR/CMV | MDA(H) | VIS |
| A | 1043(285) | 800 | 1170(412) | 900 | 1170(412) | 900 | 1500(732) | 1600 |
| B | 1053(295) | | | 1000 | | 1000 | | |
| C | 1063(305) | 1000 | | 1000 | | | | |
| D | 1073(315) | 1400 | 1400 | 1400 | 1400 | 1800(1032) | 2400 | 3200 |

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

INSTRUMENT APPROACH CHART

RJFG / TANEGASHIMA

RNP RWY31

FAS DATA BLOCK

| | | | |
|----------------------------------|---------------|----------------------------|---------------|
| Operation type | 0 | LTP/FTP ellipsoidal height | +02605 |
| SBAS service provider identifier | 2 | FPAP latitude | 303635.9110N |
| Airport identifier | RJFG | FPAP longitude | 1305858.2130E |
| Runway | 31 | 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 | M31A | ∠ length offset | 0000 |
| LTP/FTP latitude | 303600.6245N | HAL | 40.0 |
| LTP/FTP longitude | 1310001.2545E | VAL | 50.0 |
| CRC remainder | 2EE6E3AF | | |

Required additional data

| | |
|----------------------------|-------|
| LTP/FTP orthometric height | 231.2 |
|----------------------------|-------|

INSTRUMENT APPROACH CHART

RJFG / TANEGASHIMA

RNP RWY13



INSTRUMENT APPROACH CHART

RJFG / TANEGASHIMA

RNP RWY13

FAS DATA BLOCK

| | | | |
|----------------------------------|---------------|----------------------------|---------------|
| Operation type | 0 | LTP/FTP ellipsoidal height | +02666 |
| SBAS service provider identifier | 2 | FPAP latitude | 303600.6245N |
| Airport identifier | RJFG | FPAP longitude | 1310001.2545E |
| Runway | 13 | Threshold crossing height | 00015.0 |
| 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 | M13A | ∠ length offset | 0000 |
| LTP/FTP latitude | 303635.9110N | HAL | 40.0 |
| LTP/FTP longitude | 1305858.2130E | VAL | 50.0 |
| CRC remainder | 1527D649 | | |

Required additional data

| | |
|----------------------------|-------|
| LTP/FTP orthometric height | 237.1 |
|----------------------------|-------|

RJFG / TANEGASHIMA

Visual REP



※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

CHANGE : VAR.

| Call sign | BRG / DIST from ARP | Remarks |
|---------------------|---------------------|--------------------|
| 喜志鹿崎 Kishigazaki | 014°T / 14.2NM | 灯台 Lighthouse |
| 西之表 Nishinoomote | 359°T / 7.5NM | 西之表港 Harbor |
| 10NM W | 270°T / 10.0NM | 海上 Over the sea |
| 島間 Shimama | 219°T / 10.6NM | 港 Harbor |
| 竹崎 Takezaki | 187°T / 13.2NM | 灯台 Lighthouse |

RJFG / TANEGASHIMA

Minimum Vectoring Altitude CHART

CHANGE : Minimum vectoring altitude(6000→5000).



*1 : 302013N/1302957E RADIUS : 10NM

CENTER : 303618N/1305930E (ARP)