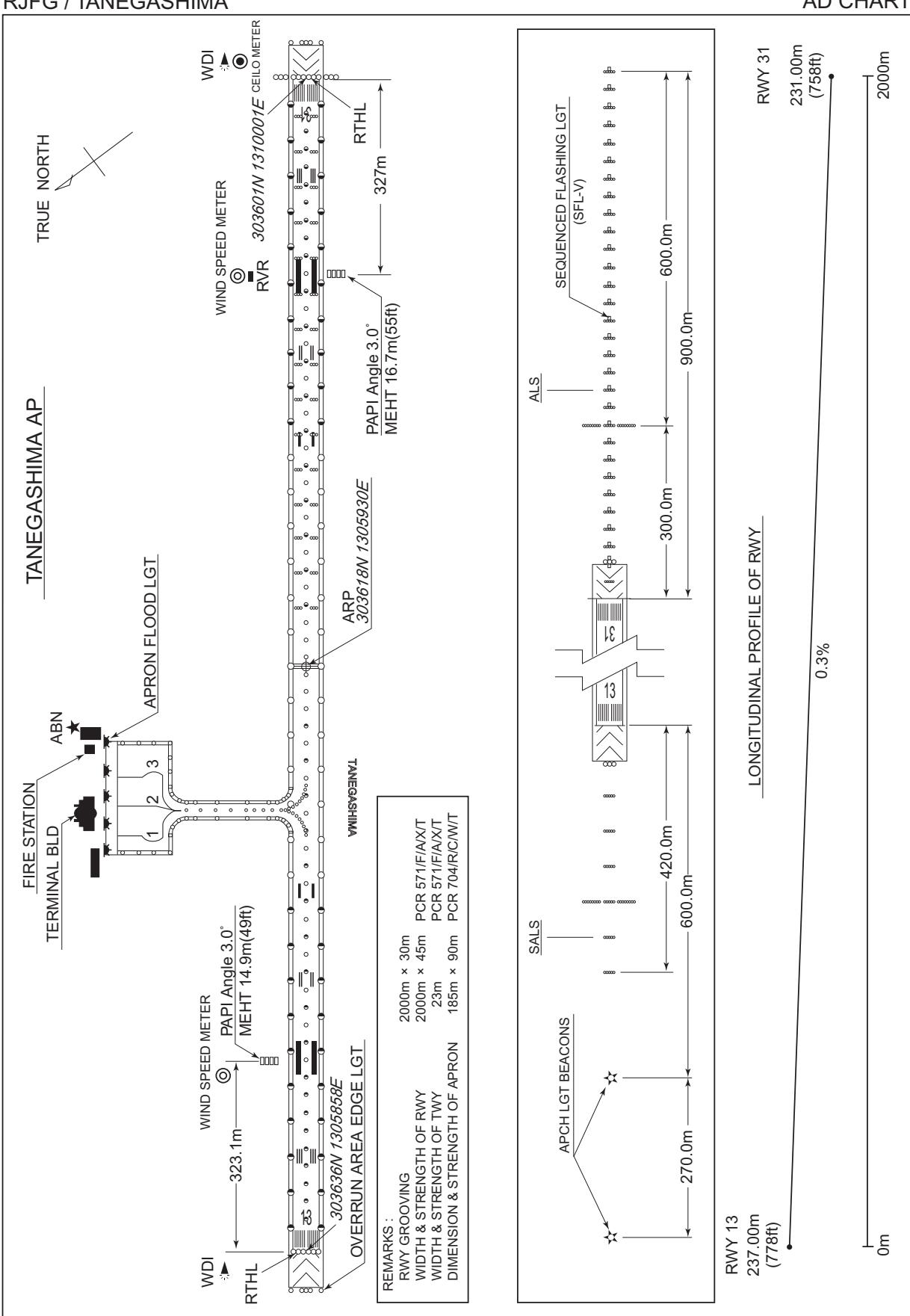


CHANGE : Description of strength of pavement.



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STANDARD DEPARTURE CHART - INSTRUMENT

RJFG / TANEGASHIMA

SID

TANEGASHIMA REVERSAL THREE DEPARTURE

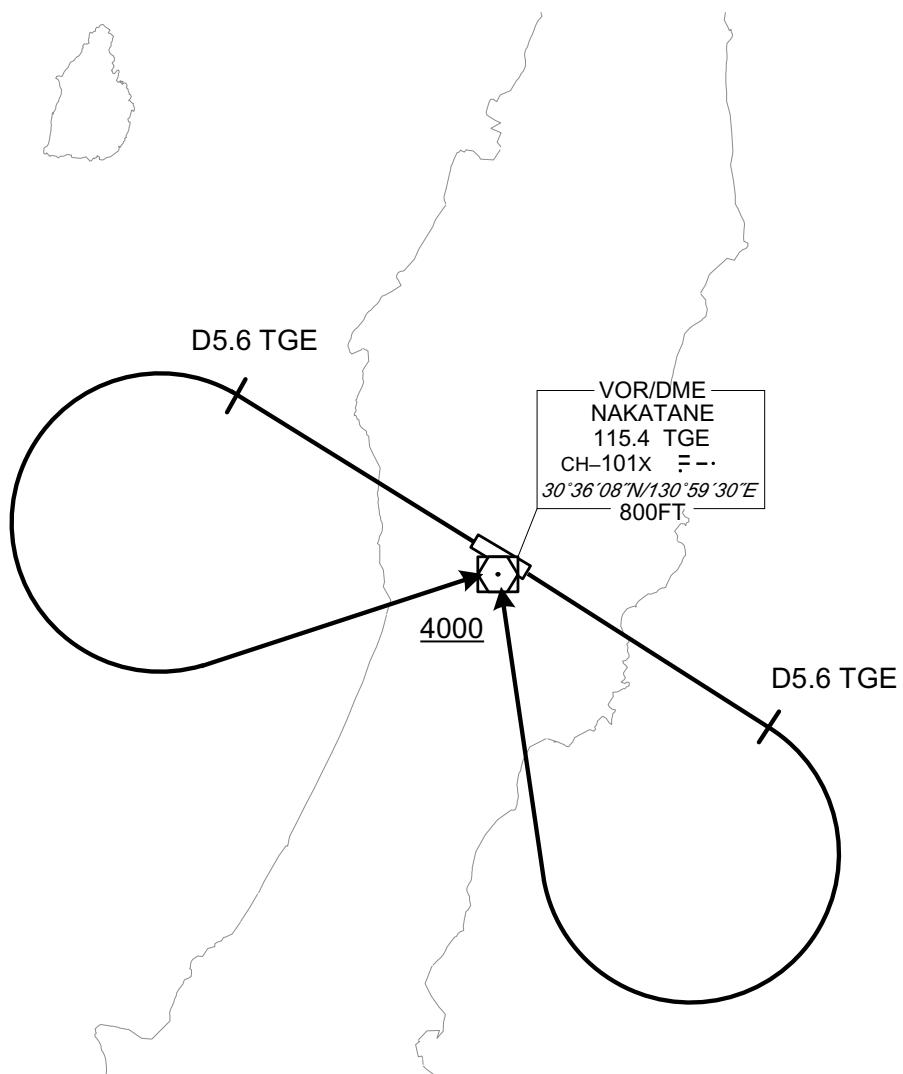
RWY 13 : Climb RWY HDG to TGE 5.6DME, turn right,...

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

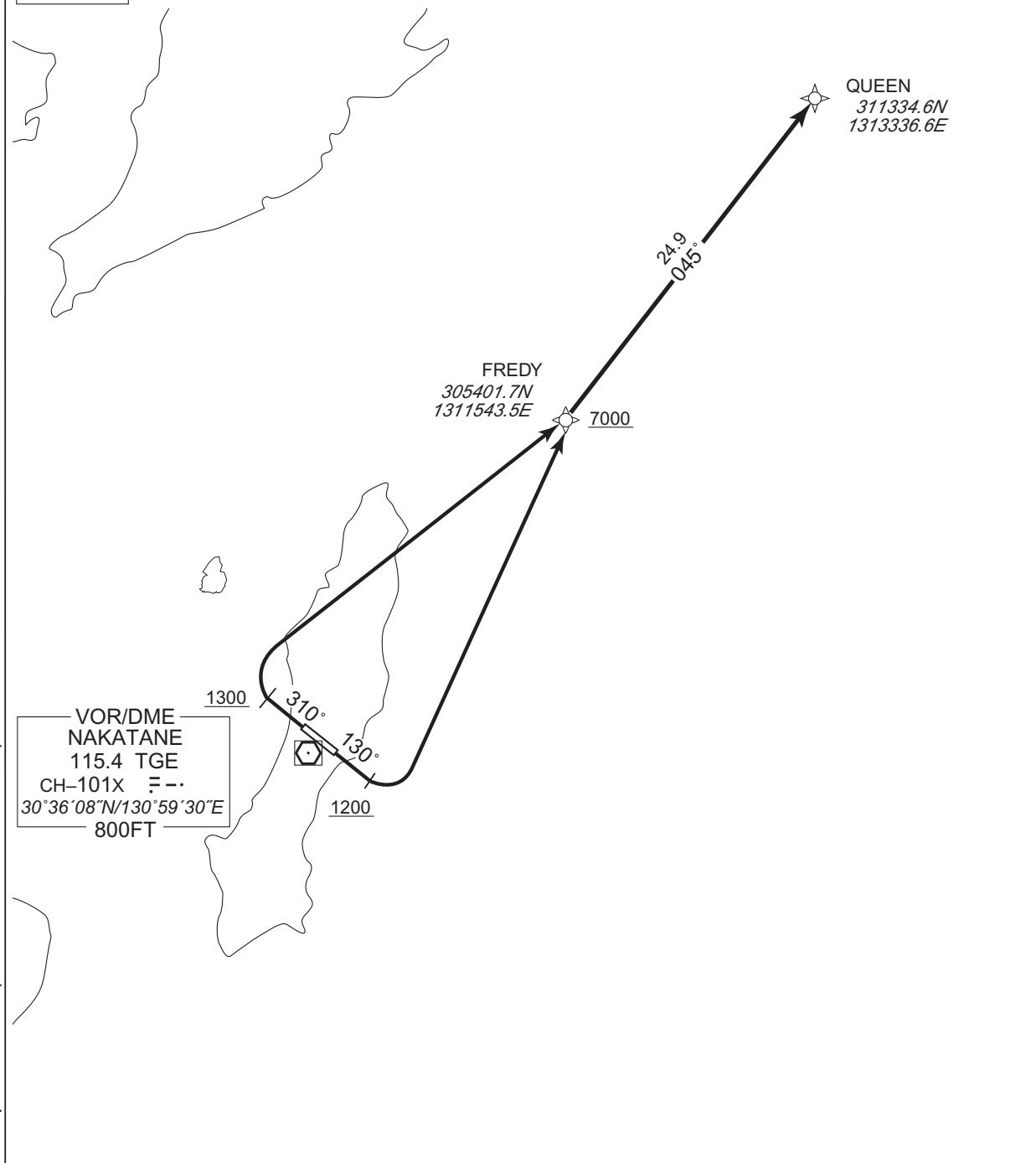
RNAV SID

FREDY TWO DEPARTURE

RNP1

Note GNSS required.

VAR 7°W



CHANGE : Navigation Specification(Basic RNP1 → RNP1).

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.

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 | - | - | RNP1 |
| 002 | DF | FREDY | - | - | -7.0 | - | L | +7000 | - | - | RNP1 |
| 003 | TF | QUEEN | - | 045 (038.0) | -7.0 | 24.9 | - | - | - | - | 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 | - | - | RNP1 |
| 002 | DF | FREDY | - | - | -7.0 | - | R | +7000 | - | - | RNP1 |
| 003 | TF | QUEEN | - | 045 (038.0) | -7.0 | 24.9 | - | - | - | - | RNP1 |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART -INSTRUMENT

RJFG / TANEGASHIMA

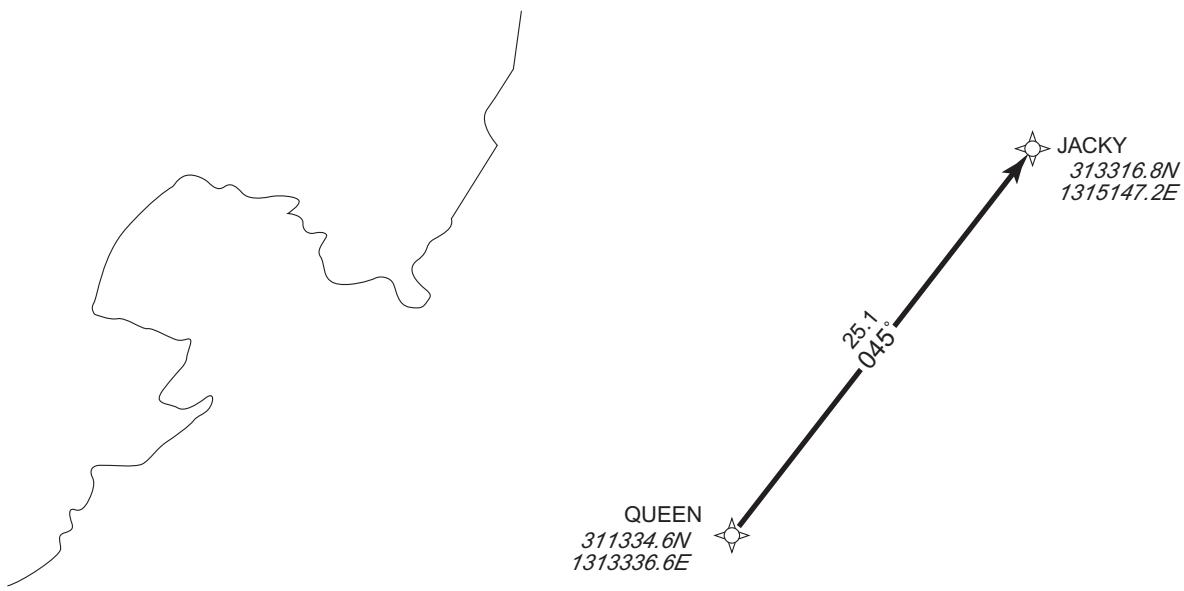
RNAV TRANSITION

JACKY TRANSITION

RNP1

Note GNSS required.

VAR 7°W



CHANGE : Navigation Specification(Basic RNP1 → RNP1).

From QUEEN to JACKY.

| 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 | QUEEN | — | — | -7.0 | — | — | — | — | — | RNP1 |
| 002 | TF | JACKY | — | 045 (038.1) | -7.0 | 25.1 | — | — | — | — | RNP1 |

STANDARD DEPARTURE CHART -INSTRUMENT

RJFG / TANEGASHIMA

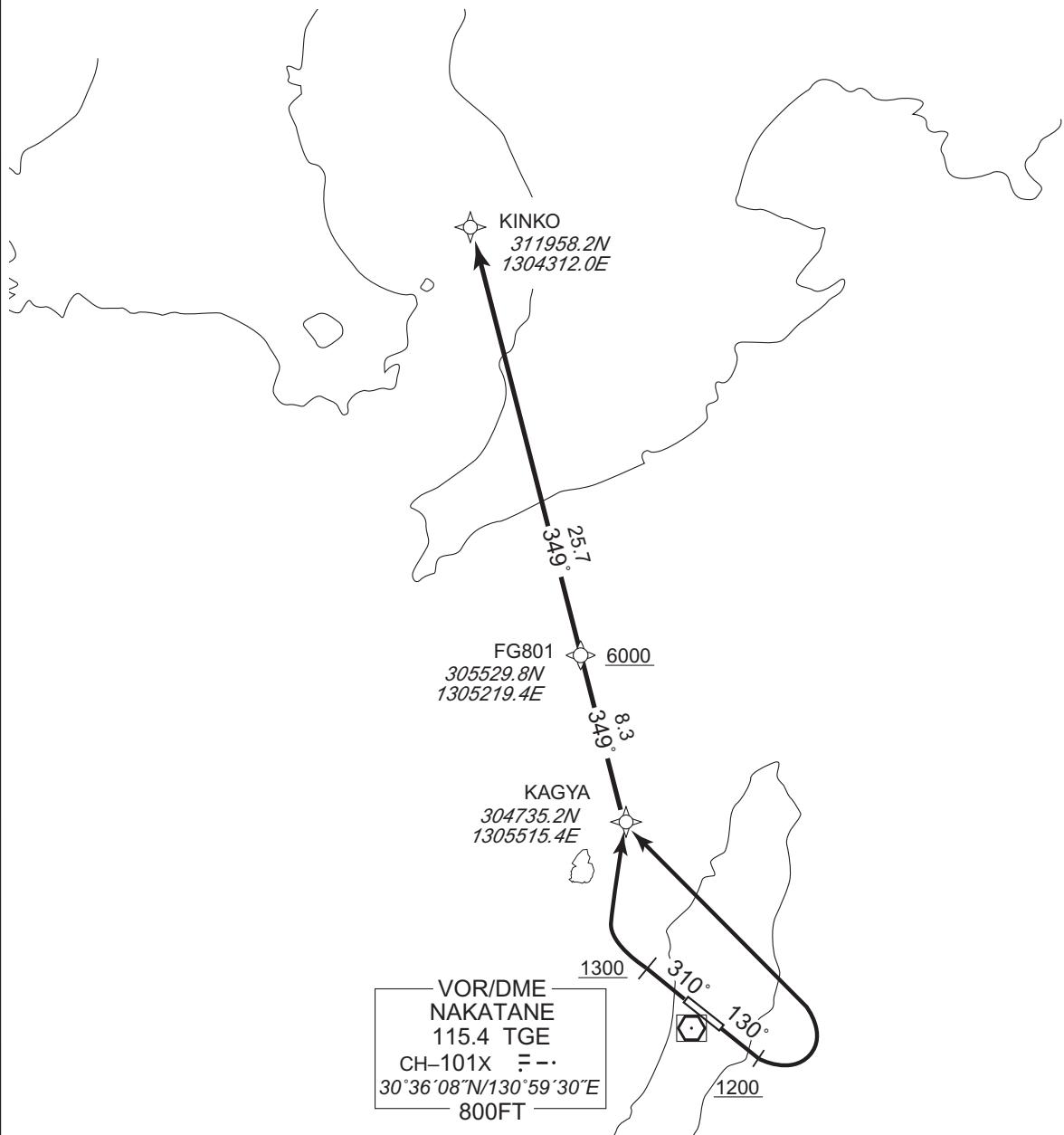
RNAV SID

KAGYA TWO DEPARTURE

RNP1

Note GNSS required.

VAR 7°W



CHANGE : Navigation Specification(Basic RNP1 → RNP1).

RWY13 : Climb on HDG 130° at or above 1200FT, turn left direct to KAGYA, to FG801 at or above 6000FT, to KINKO.

RWY31 : Climb on HDG 310° at or above 1300FT, turn right direct to KAGYA, to FG801 at or above 6000FT, to KINKO.

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 | - | - | RNP1 |
| 002 | DF | KAGYA | - | - | -7.0 | - | L | - | - | - | RNP1 |
| 003 | TF | FG801 | - | 349 (342.4) | -7.0 | 8.3 | - | +6000 | - | - | RNP1 |
| 004 | TF | KINKO | - | 349 (342.3) | -7.0 | 25.7 | - | - | - | - | 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 | - | - | RNP1 |
| 002 | DF | KAGYA | - | - | -7.0 | - | R | - | - | - | RNP1 |
| 003 | TF | FG801 | - | 349 (342.4) | -7.0 | 8.3 | - | +6000 | - | - | RNP1 |
| 004 | TF | KINKO | - | 349 (342.3) | -7.0 | 25.7 | - | - | - | - | RNP1 |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD ARRIVAL CHART - INSTRUMENT

RJFG / TANEGASHIMA

RNAV STAR RWY13

TEPPO ARRIVAL

RNP1

Note GNSS required.

VAR 7°W

KAGYA
304735.2N
1305515.4E

5000

11.2
287°

TEPPO
304536.4N
1310803.5E

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

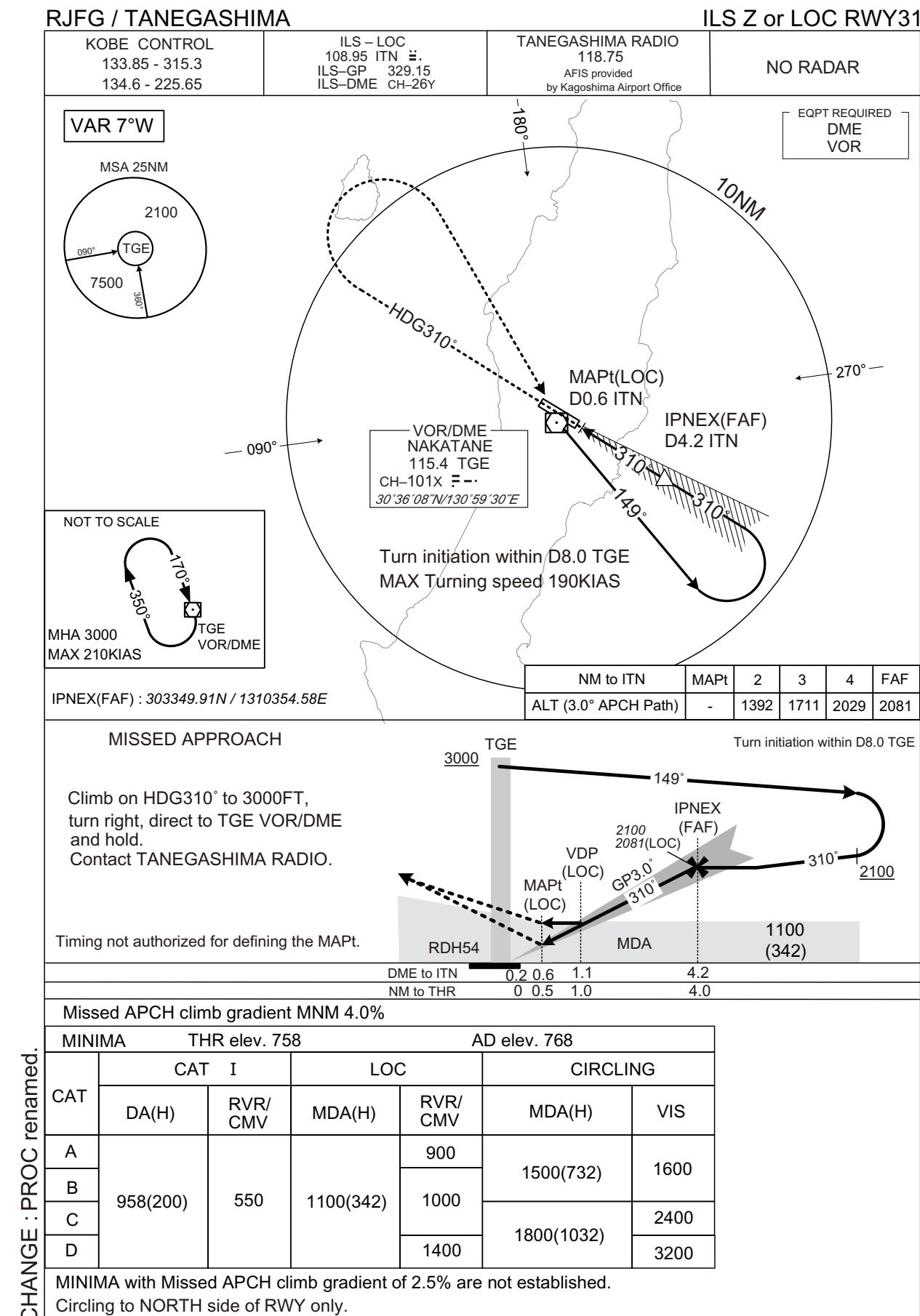
VOR/DME
NAKATANE
115.4 TGE
CH-101X $\frac{---}{\cdot \cdot \cdot}$
 $30^{\circ}36'08''N/130^{\circ}59'30''E$
800FT

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

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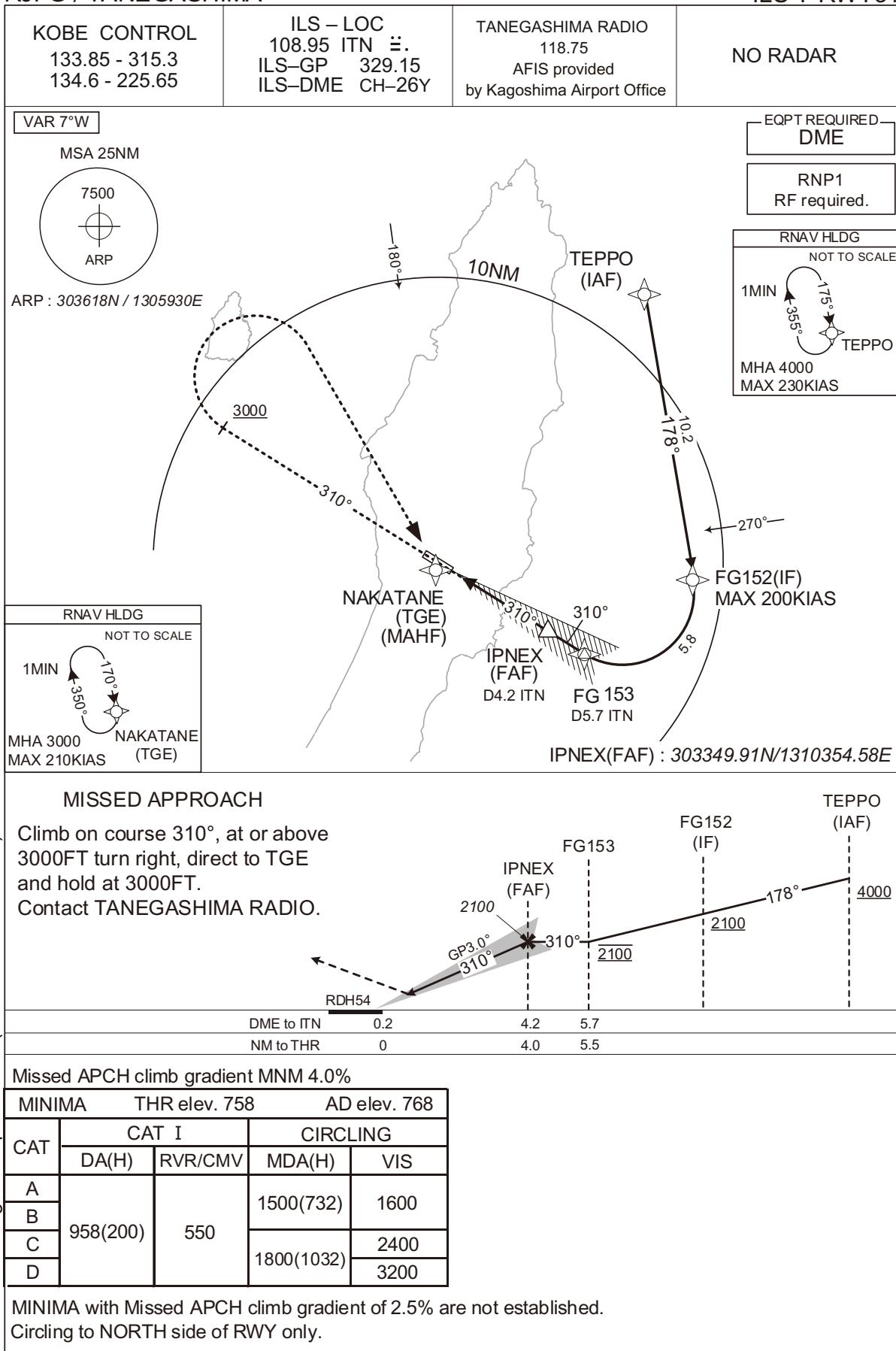
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJFG / TANEGASHIMA

ILS Y RWY31



CHANGE : Navigation Specification(Basic RNP1 → RNP1).

INSTRUMENT APPROACH CHART

RJFG / TANEGASHIMA

ILS Y RWY31

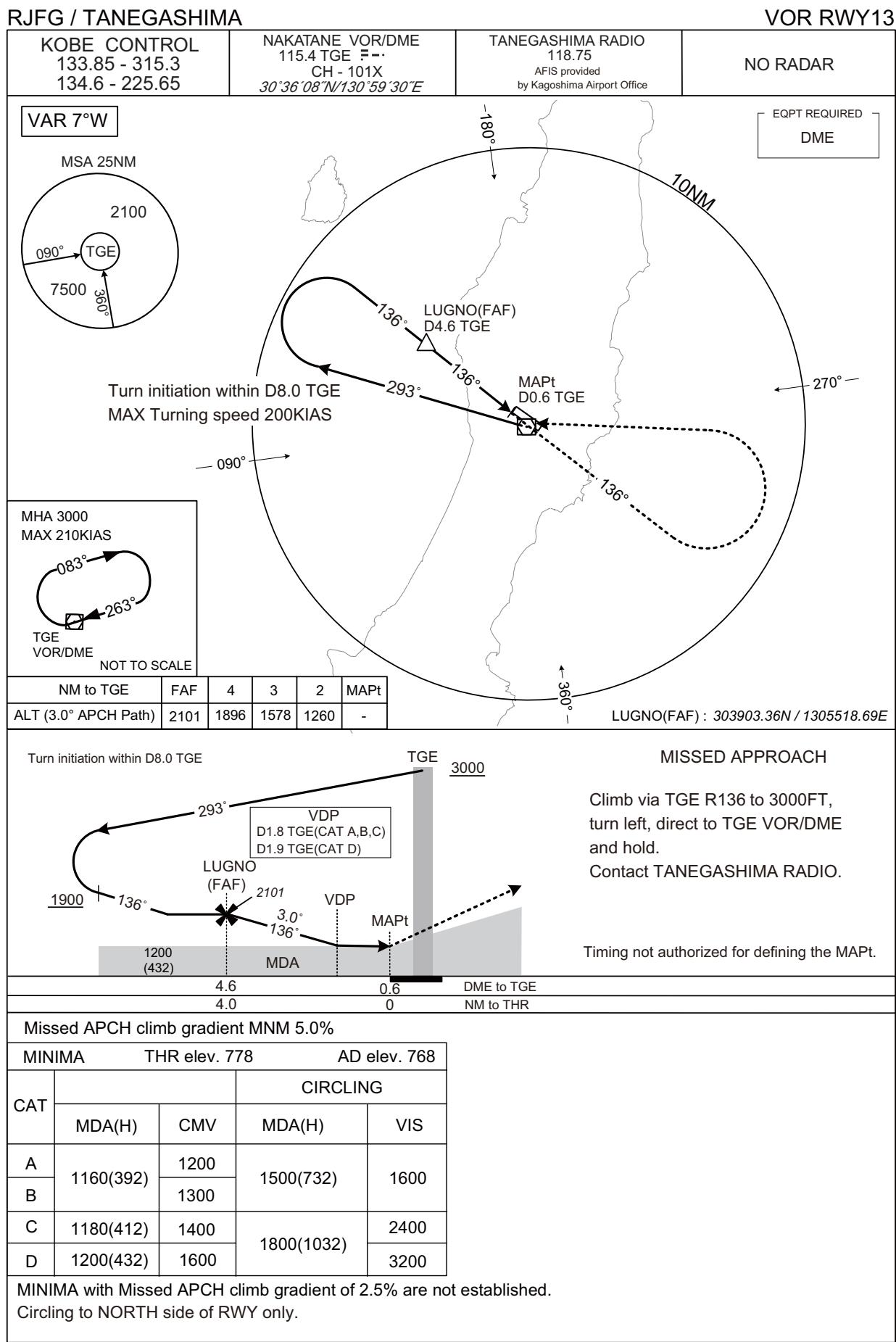
| Coding Table | | | | | | | | | | | |
|---------------|---------------------------------|-----------------------|--------------------|---------------------|--------------------|-----------------------|-----------------------|---------------|--------------------------|----------------|--------------------------|
| 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 | - | - | RNP1 |
| 002 | TF | FG152 | - | 178 (171.4) | -7.0 | 10.2 | - | +2100 | -200 | - | RNP1 |
| 003 | RF Center: FGRF1 r=2.51NM | FG153 | - | - | -7.0 | 5.8 | R | 2100 | - | - | RNP1 |
| 001 | CA | - | - | 310 (303.0) | -7.0 | - | - | +3000 | - | - | RNP1 |
| 002 | DF | TGE | - | - | -7.0 | - | R | 3000 | - | - | 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) | RNP1 | | |
| Hold | TGE | 170 (163.3) | -7.0 | 1.0 (-14000) | R | 3000 | FL140 | -210 (-14000) | 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 / 130.5929.52E | | |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

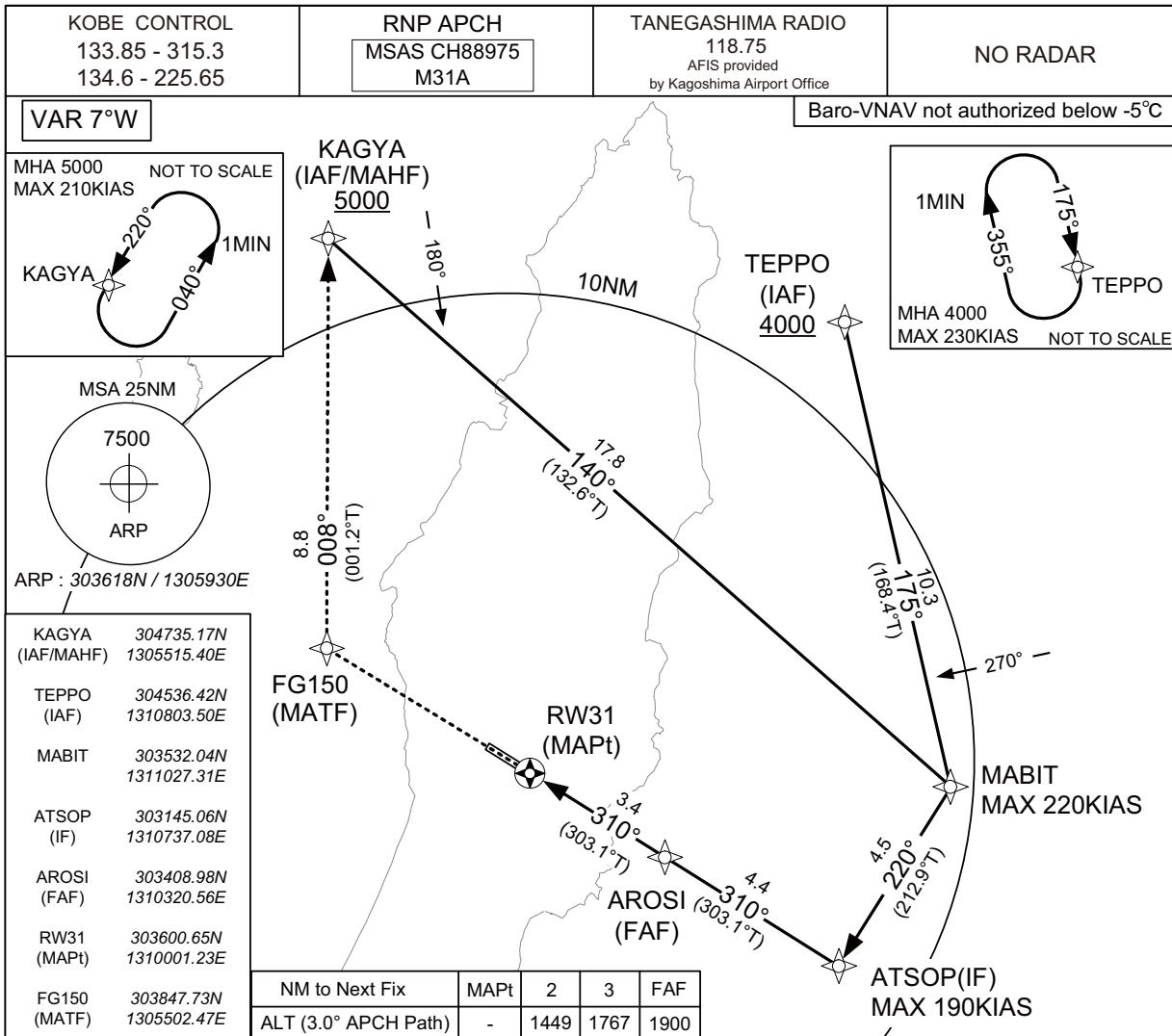
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

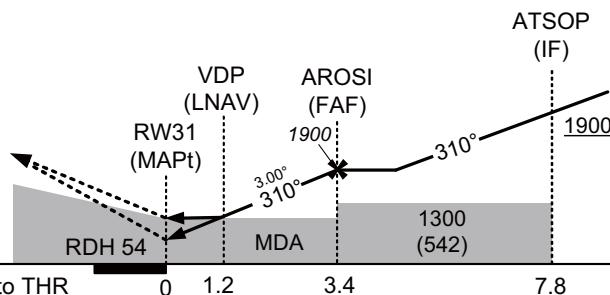
RJFG / TANEGASHIMA

RNP RWY31



MISSED APPROACH

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



Missed APCH climb gradient MNM 5.0%

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

KOBE CONTROL
133.85 - 315.3
134.6 - 225.65

RNP APCH
MSAS CH61693
M13A

TANEGASHIMA RADIO
118.75
AFIS provided
by Kagoshima Airport Office

NO RADAR

VAR 7°W

MSA 25NM
7500
ARP

ARP : 303618N / 1305930E

KAGYA (IAF/MAHF)
7.5
220° (R125°T)

**ASERO(IF)
MAX 210KIAS**

**KAGYA (IAF/MAHF) 304735.17N
1305515.40E**

**ASERO (IF) 304117.10N
1305034.85E**

**SEMDA (FAF) 303836.20N
1305523.10E**

**RW13 (MAPt) 303635.93N
1305858.18E**

**FG351 (MATF) 303457.91N
1310153.26E**

10NM

**MHA 5000
MAX 210KIAS**
NOT TO SCALE
KAGYA
220° 040° 1MIN

NM to Next Fix **FAF** **3** **2** **MAPt**

ALT (3.0° APCH Path) **2000** **1782** **1464** **-**

KAGYA (IAF)
5000
220°

ASERO (IF)
2000
130°

SEMDA (FAF)
2000
130°

VDP (LNAV)
2000
130°

RW13 (MAPt)
1500 (732)
MDA
3.00%
1.1
0

RDH 50

MISSED APPROACH
Direct to FG351, turn left direct to KAGYA and hold at 5000FT. Contact TANEGASHIMA RADIO.

8.6 **3.7** **1.1** **0** **NM to THR**

Missed APCH climb gradient MNM 5.0%

| MINIMA | | THR elev. 778 | | AD elev. 768 | | | | | |
|--------|-----------|---------------|-----------|--------------|-----------|------|-----------|------------|------|
| CAT | LPV | | LNAV/VNAV | | LNAV | | CIRCLING | | |
| | DA(H) | CMV | DA(H) | CMV | MDA(H) | CMV | MDA(H) | VIS | |
| A | 1028(250) | 1000 | 1160(382) | 1200 | 1160(392) | 1200 | 1500(732) | 1600 | |
| B | 1100 | | | 1300 | | 1300 | | 1800(1032) | 2400 |
| C | 1043(265) | 1200 | | 1400 | | 1400 | | 1600 | 3200 |
| D | 1052(274) | 1400 | 1600 | | | | | | |

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 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 | Δ 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).

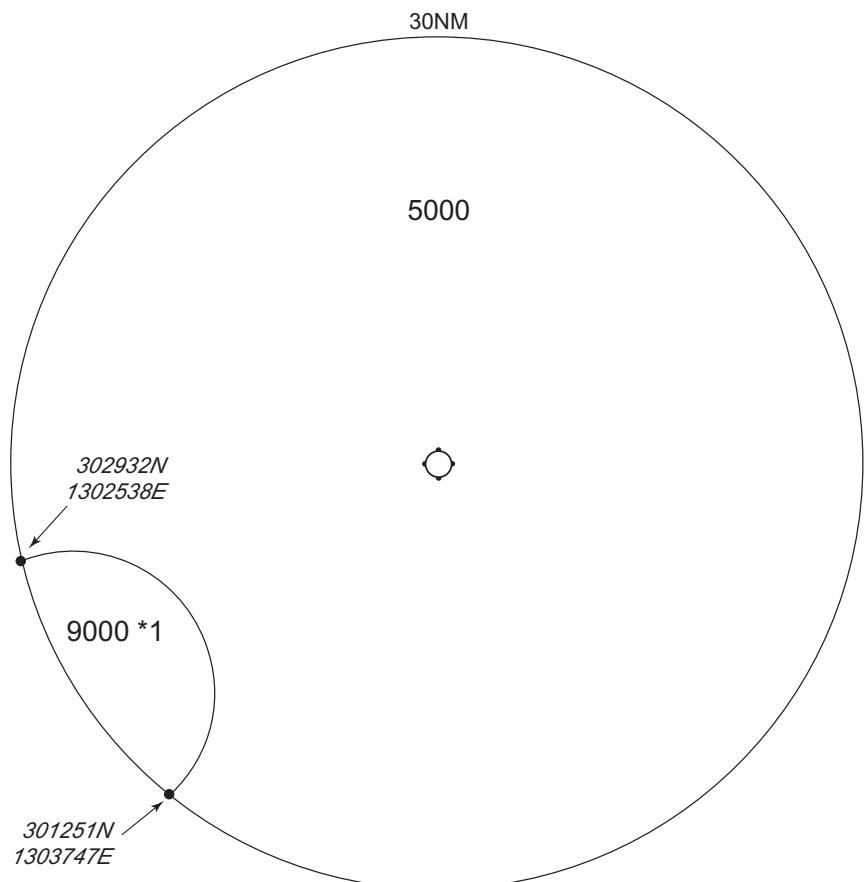
CHANGE : VAR.

| 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)