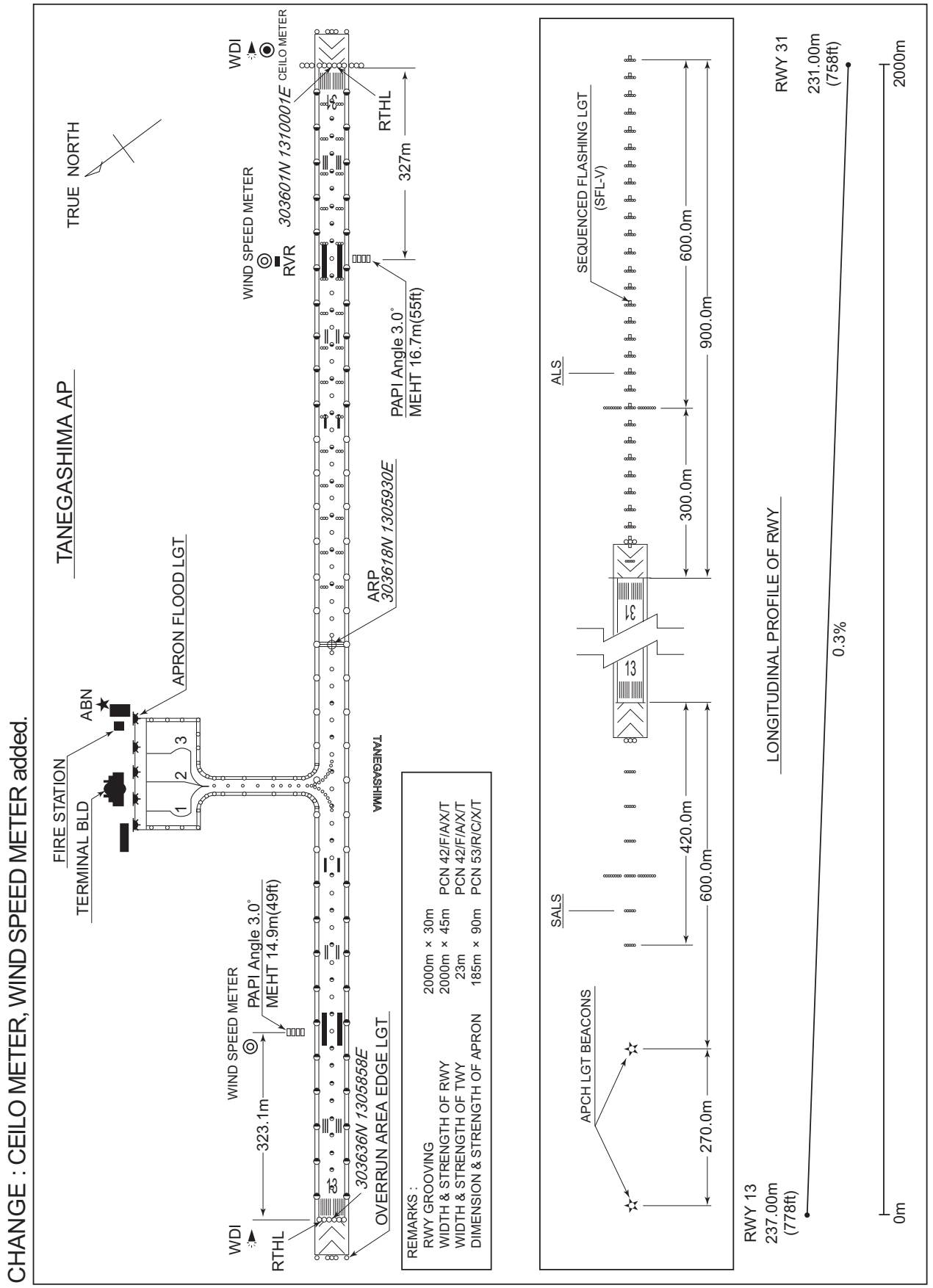
RJFG / TANEGASHIMA AD CHART



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STANDARD DEPARTURE CHART - INSTRUMENT

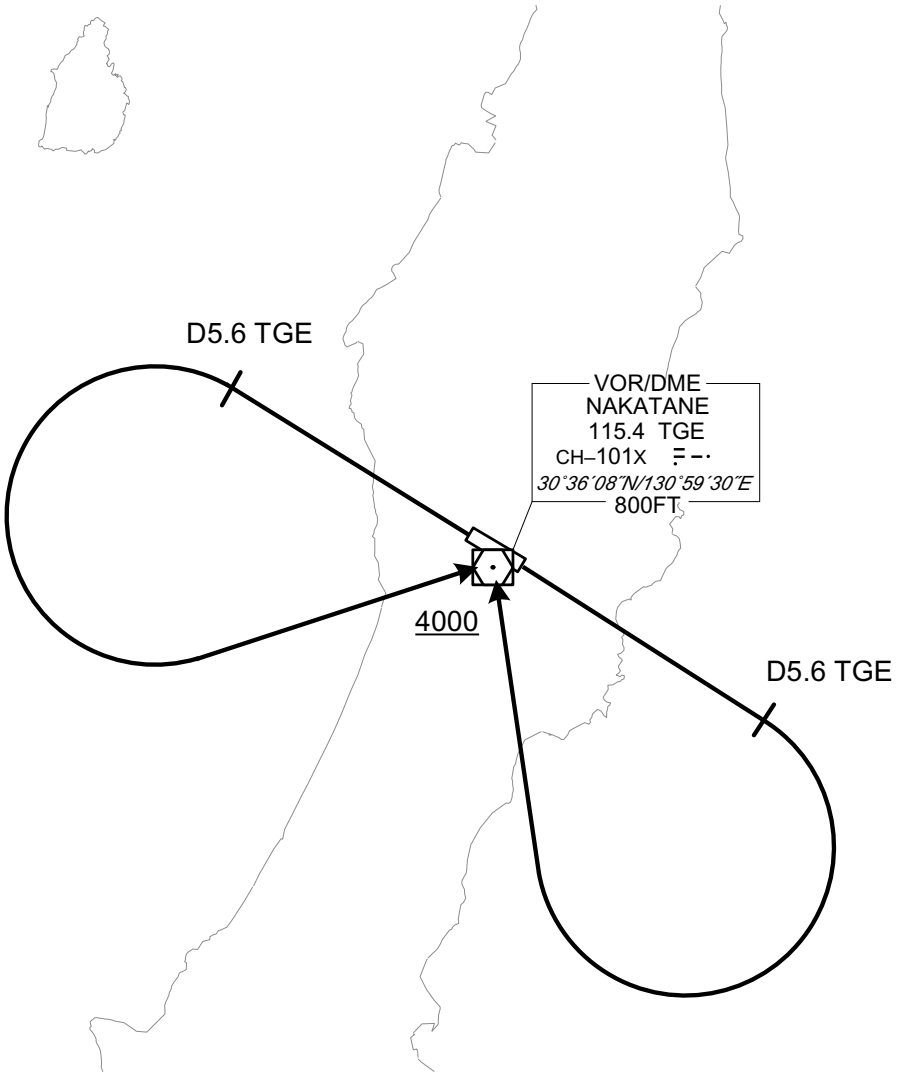
RJFG / TANEGASHIMA SID

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

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.

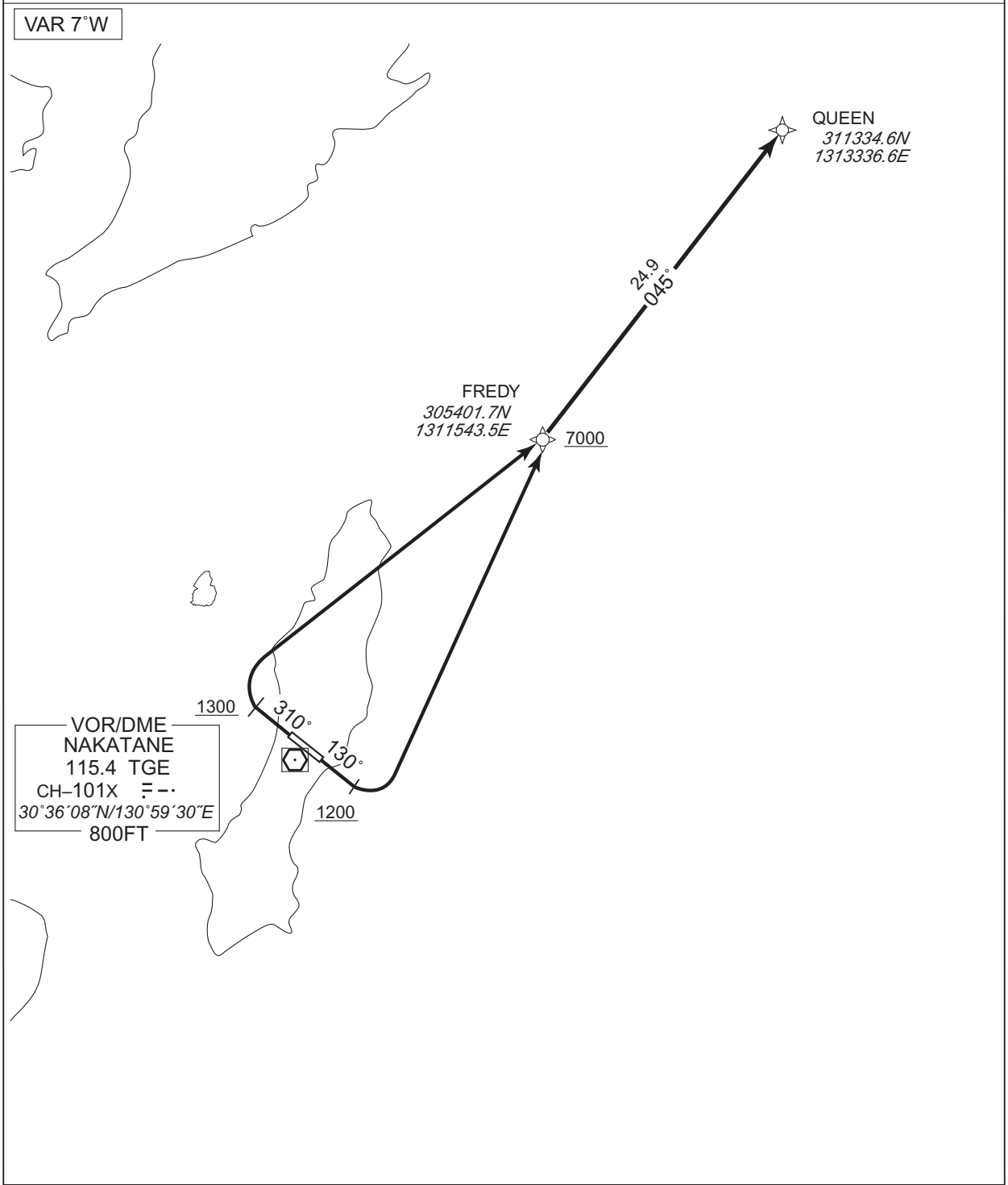


STANDARD DEPARTURE CHART -INSTRUMENT

RJFG / TANEGASHIMA RNAV SID

FREDY TWO DEPARTURE	RNP1

Note GNSS required.



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).

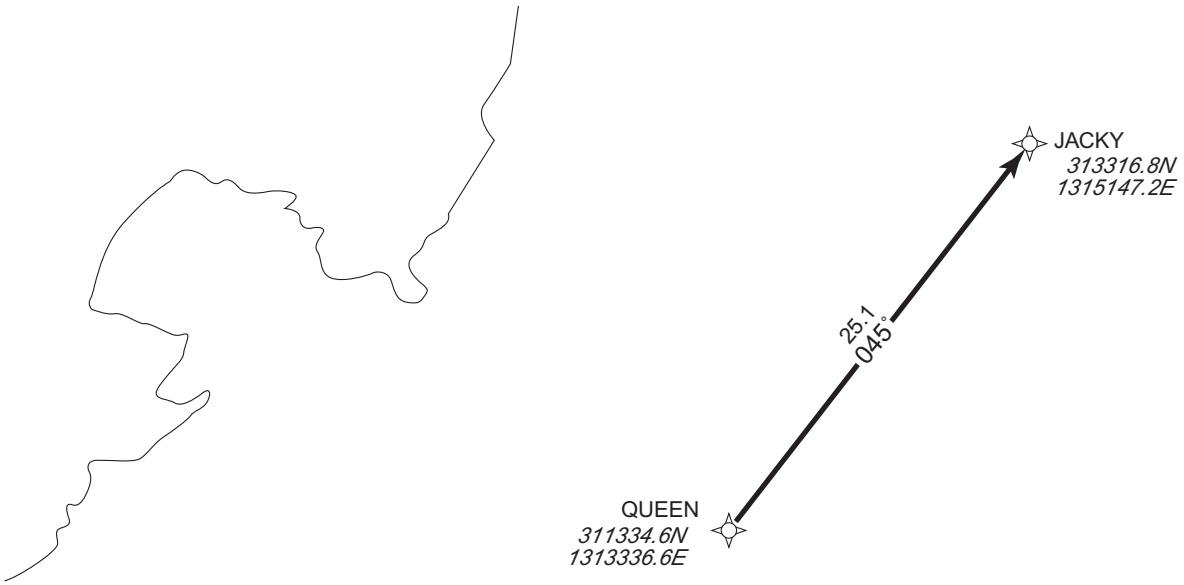
STANDARD DEPARTURE CHART -INSTRUMENT

RJFG / TANEGASHIMA — RNAV TRANSITION

JACKY TRANSITION	RNP1

Note GNSS required.

VAR 7˚W



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

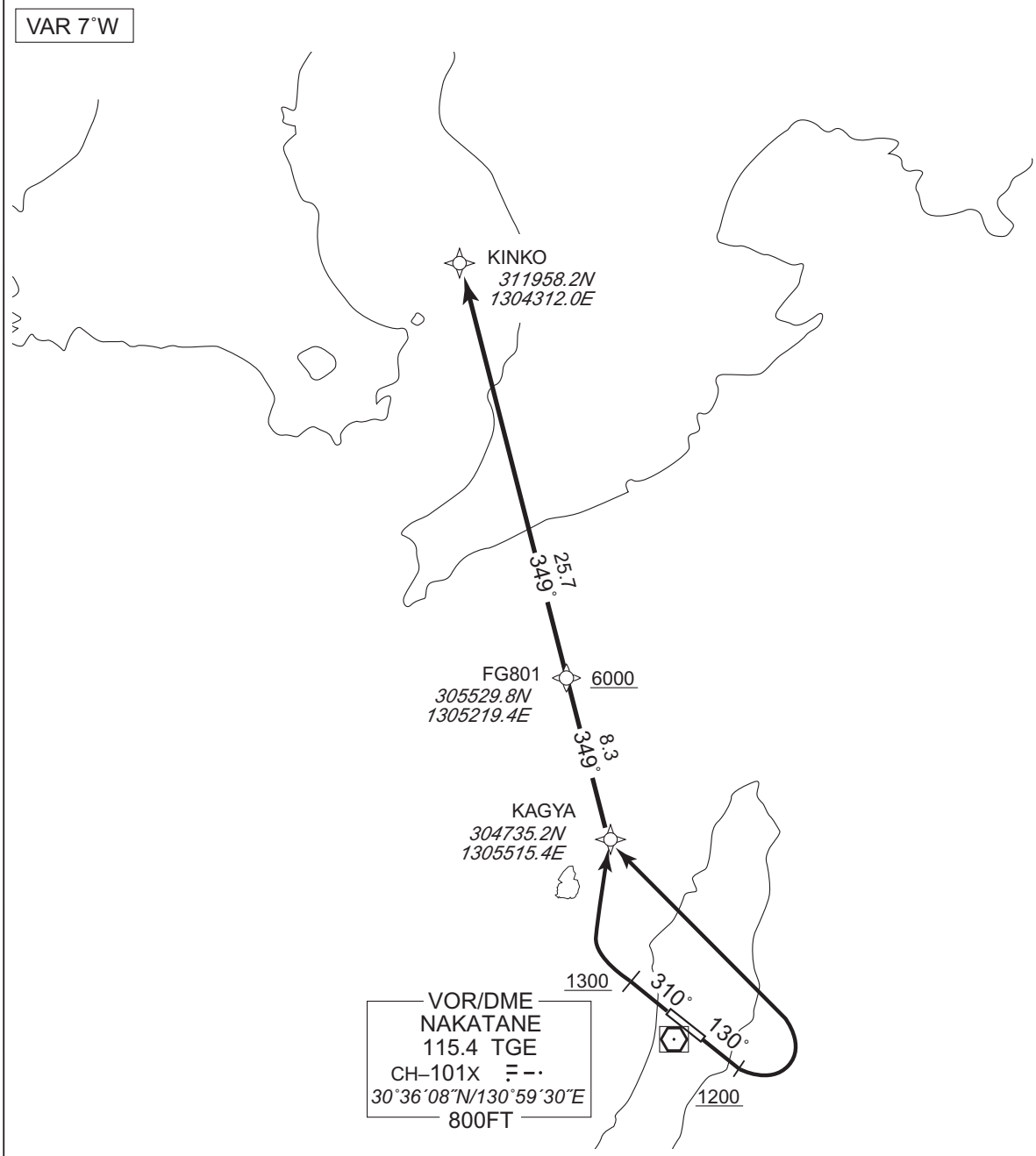
CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART -INSTRUMENT

RJFG / TANEGASHIMA — RNAV SID

KAGYA TWO DEPARTURE	RNP1

Note GNSS required.



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).

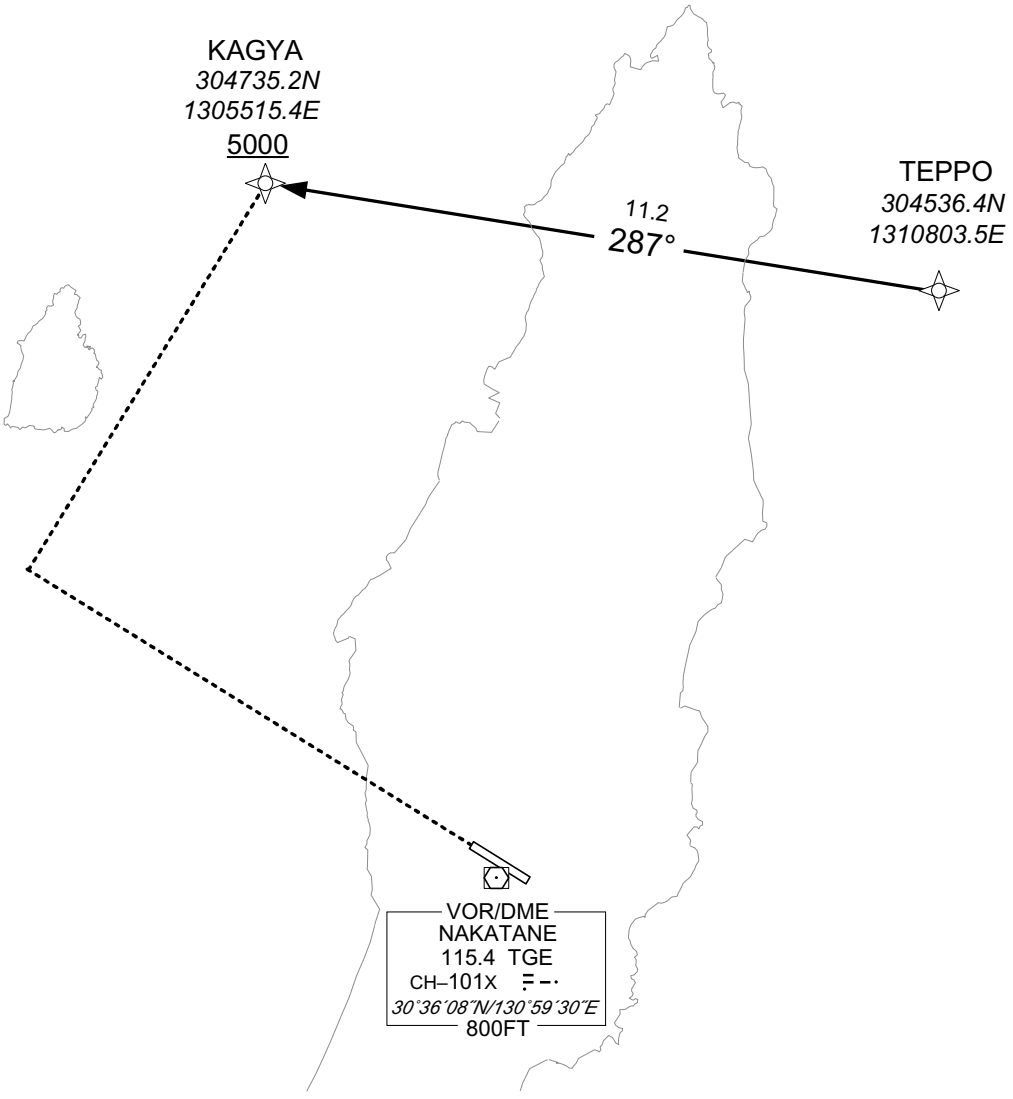
STANDARD ARRIVAL CHART - INSTRUMENT

RJFG / TANEGASHIMA — RNAV STAR RWY13

TEPPO ARRIVAL	RNP1

Note GNSS required.

VAR 7°W



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

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

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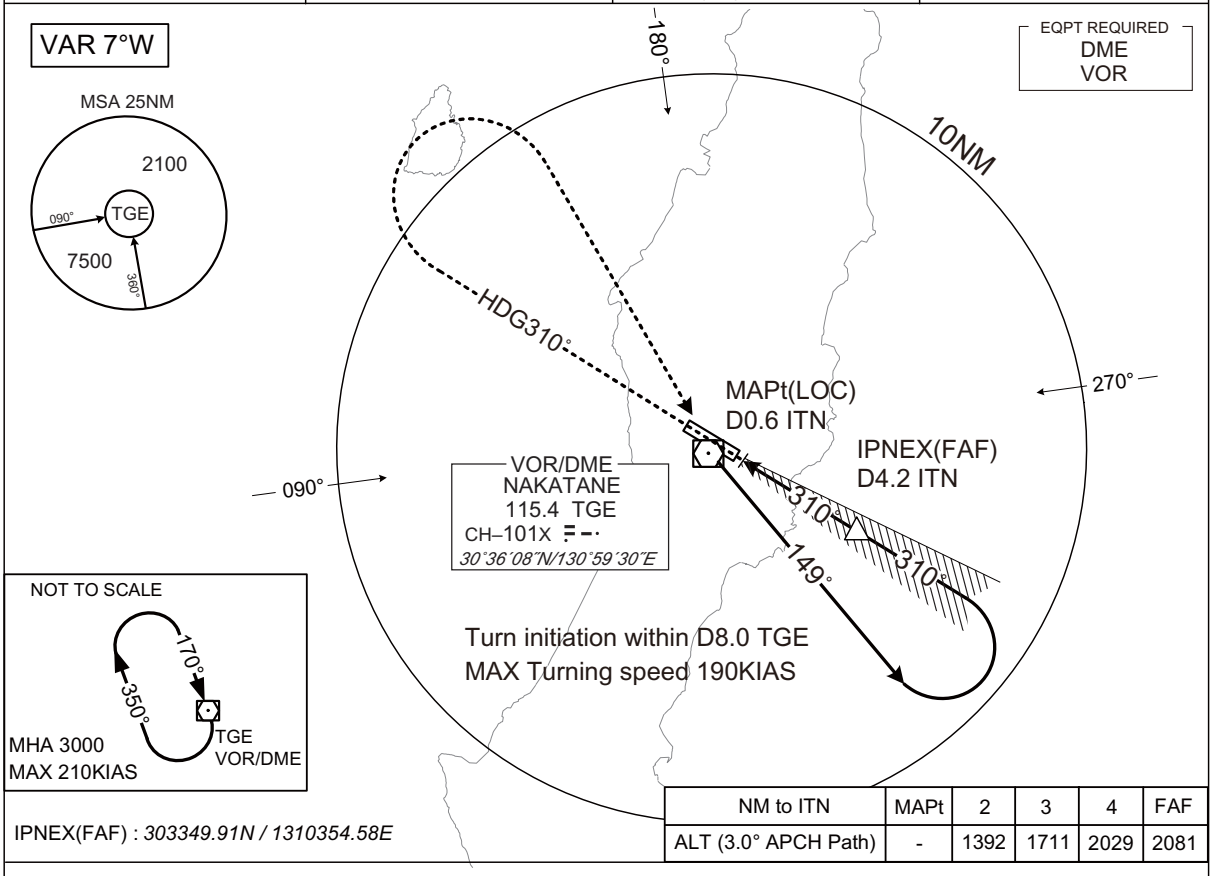
INSTRUMENT APPROACH CHART

RJFG / TANEGASHIMA — ILS Z or LOC RWY31

KOBE CONTROL	ILS – LOC	TANEGASHIMA RADIO	NO RADAR
133.85 - 315.3 134.6 - 225.65	108.95 ITN ILS–GP 329.15 ILS–DME CH–26Y	118.75 AFIS provided by Kagoshima Airport Office	



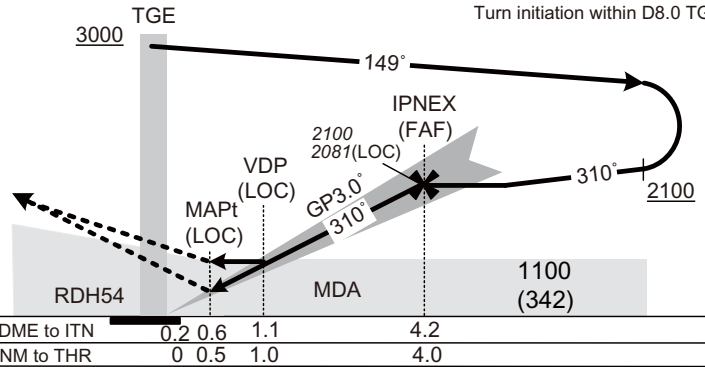
IPNEX(FAF) : *303349.91N / 1310354.58E*

NM to ITN	MAPt	2	3	4	FAF
ALT (3.0° APCH Path)	-	1392	1711	2029	2081

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					1800(1032)	2400
D				1400		3200

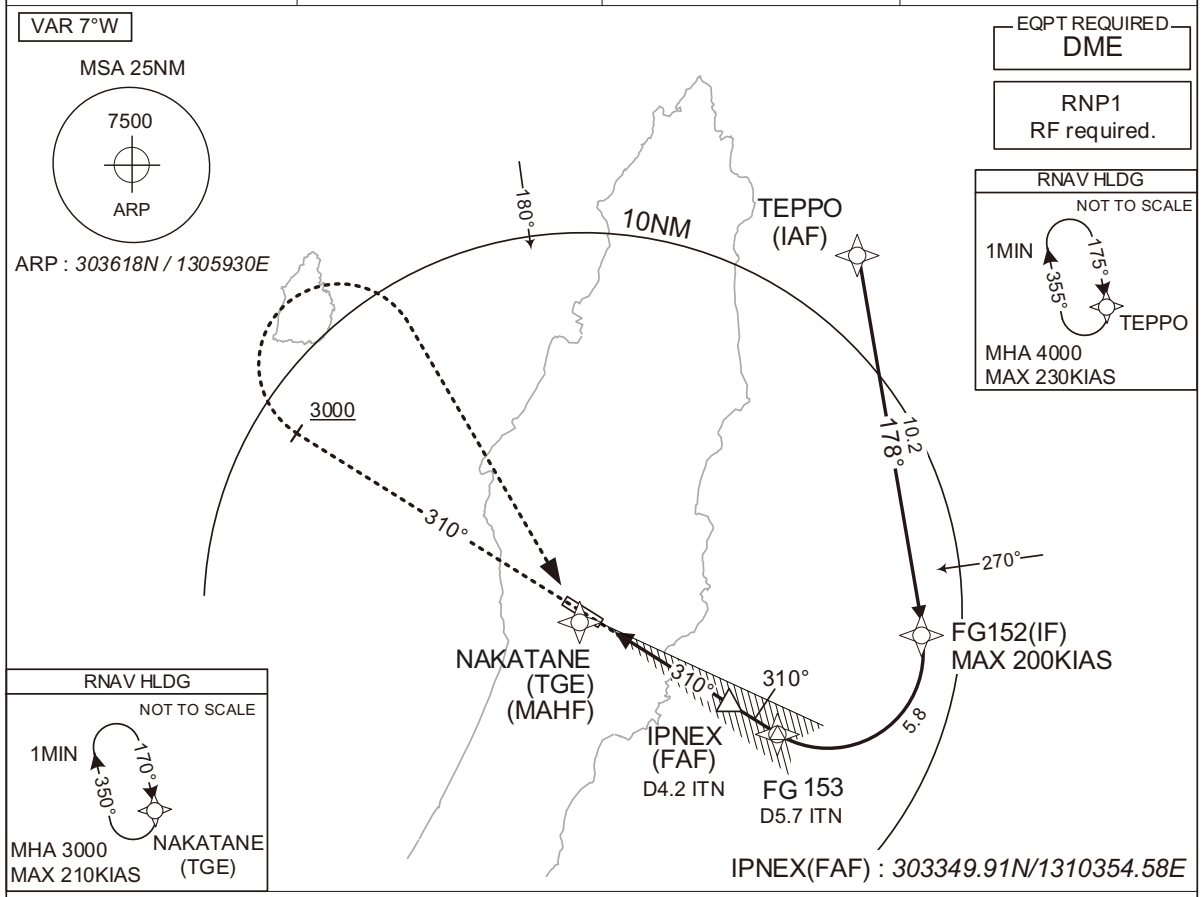
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to NORTH side of RWY only.

CHANGE : PROC renamed.

INSTRUMENT APPROACH CHART

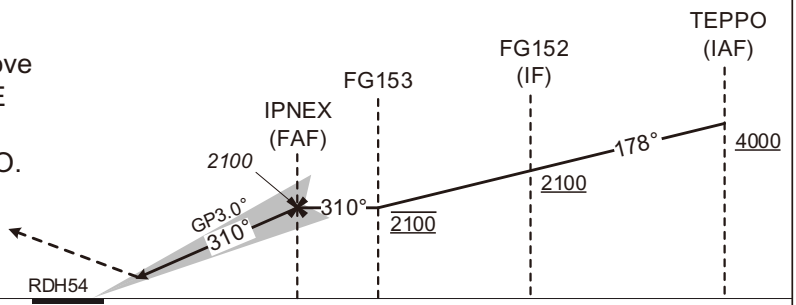
RJFG / TANEGASHIMA — ILS Y RWY31

KOBE CONTROL	ILS – LOC	TANEGASHIMA RADIO	NO RADAR
133.85 - 315.3 134.6 - 225.65	108.95 ITN ⩵. ILS–GP 329.15 ILS–DME CH–26Y	118.75 AFIS provided by Kagoshima Airport Office	



MISSED APPROACH

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



DME to ITN	0.2	4.2	5.7
NM to THR	0	4.0	5.5

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				
C			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 : Navigation Specification(Basic RNP1 → RNP1).

INSTRUMENT APPROACH CHART

RJFG / TANEGASHIMA ILS Y RWY31

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

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

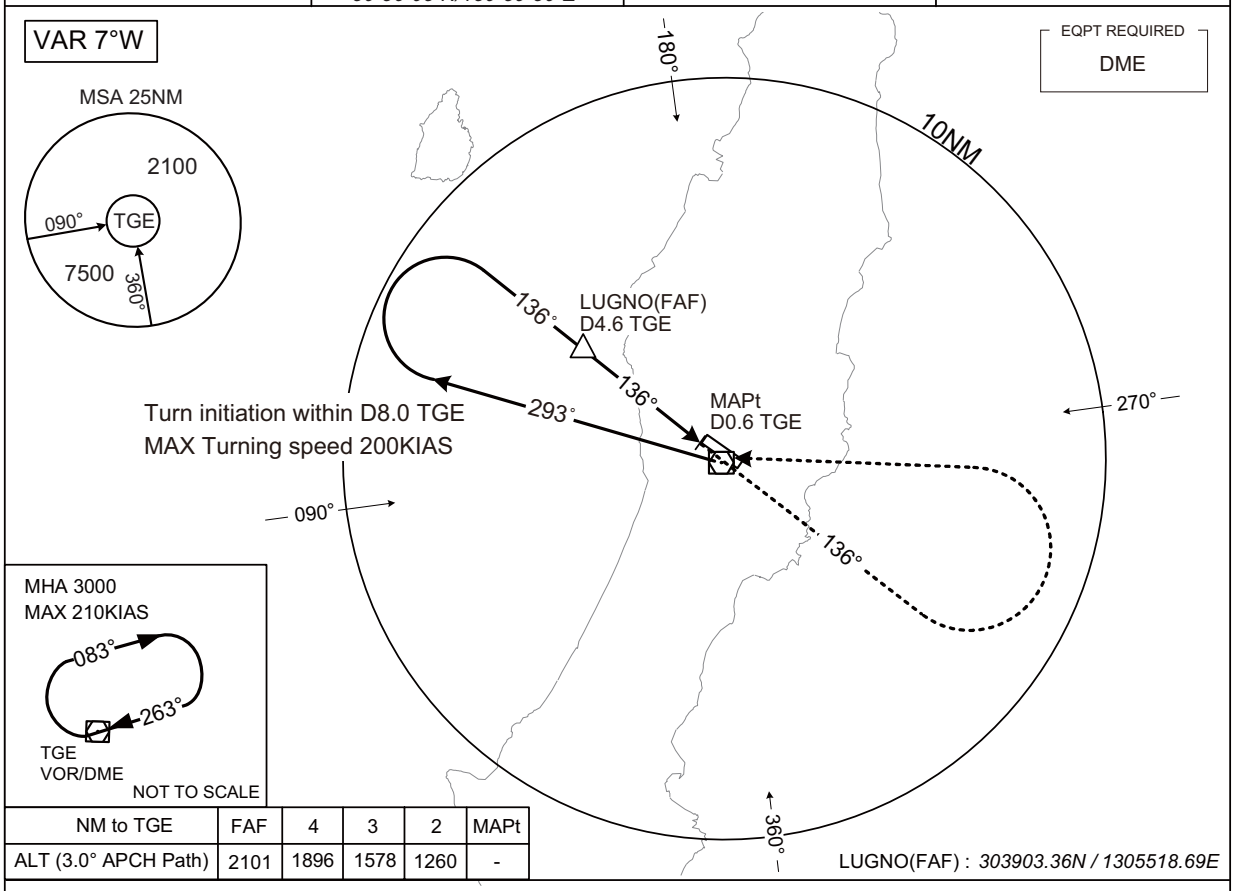
Waypoint Coordinates

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*		

INSTRUMENT APPROACH CHART

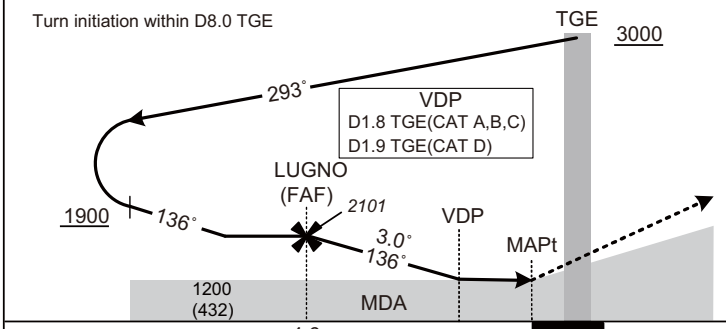
RJFG / TANEGASHIMA — VOR RWY13

KOBE CONTROL	NAKATANE VOR/DME	TANEGASHIMA RADIO	NO RADAR
133.85 - 315.3 134.6 - 225.65	115.4 TGE CH - 101X *30°36′08″N/130°59′30″E*	118.75 AFIS provided by Kagoshima Airport Office	



NM to TGE	FAF	4	3	2	MAPt
ALT (3.0° APCH Path)	2101	1896	1578	1260	-

LUGNO(FAF) : *303903.36N / 1305518.69E*



MISSED APPROACH

Climb via TGE R136 to 3000FT,
turn left, direct to TGE VOR/DME
and hold.
Contact TANEGASHIMA RADIO.

Timing not authorized for defining the MAPt.

Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 778		AD elev. 768	
CAT			CIRCLING	
	MDA(H)	CMV	MDA(H)	VIS
A	1160(392)	1200	1500(732)	1600
B		1300		
C	1180(412)	1400	1800(1032)	2400
D	1200(432)	1600		3200

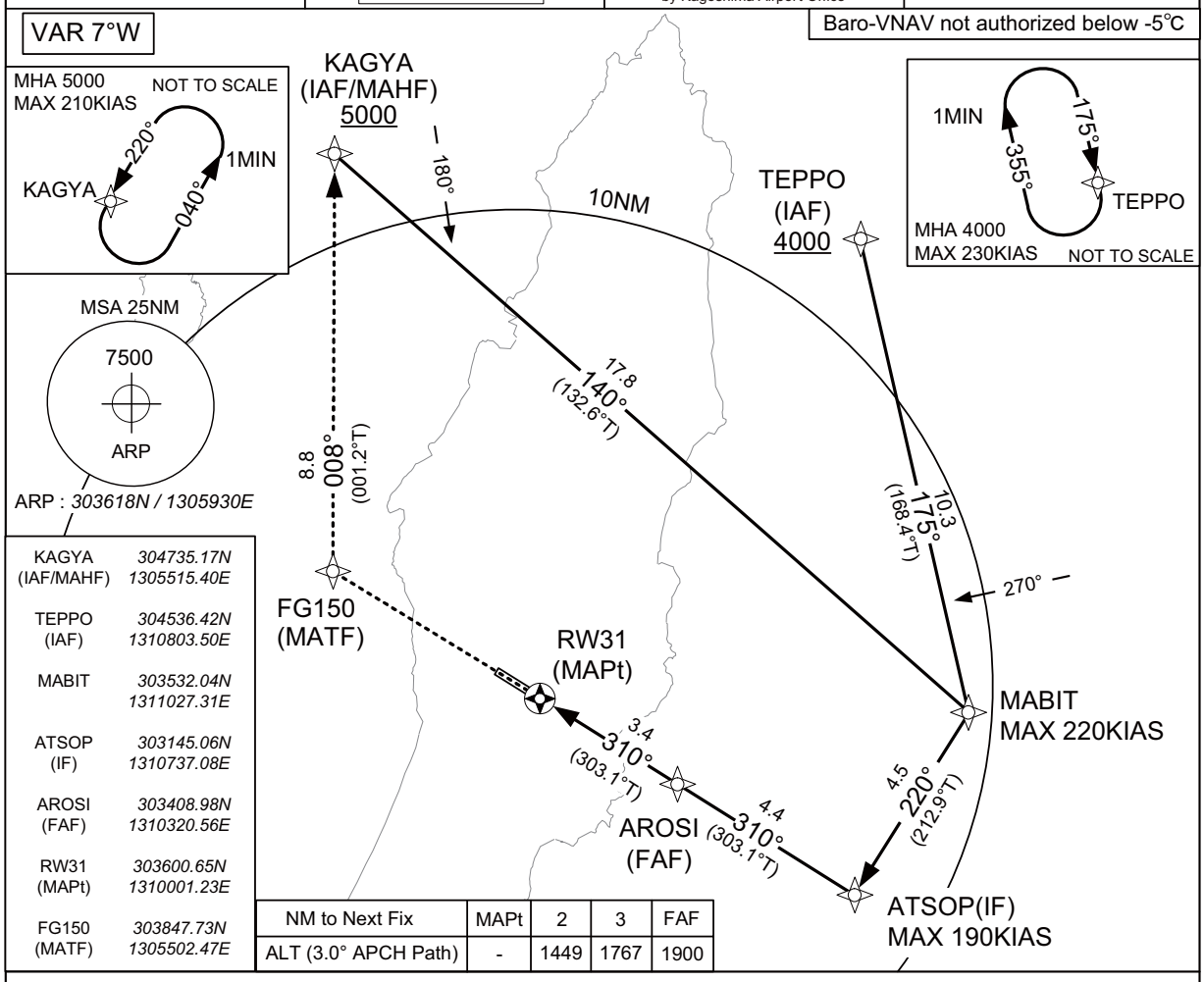
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to NORTH side of RWY only.

INSTRUMENT APPROACH CHART

RJFG / TANEGASHIMA

RNP RWY31

KOBE CONTROL	RNP APCH	TANEGASHIMA RADIO	NO RADAR
133.85 - 315.3 134.6 - 225.65	MSAS CH88975 M31A	118.75 AFIS provided by Kagoshima Airport Office	

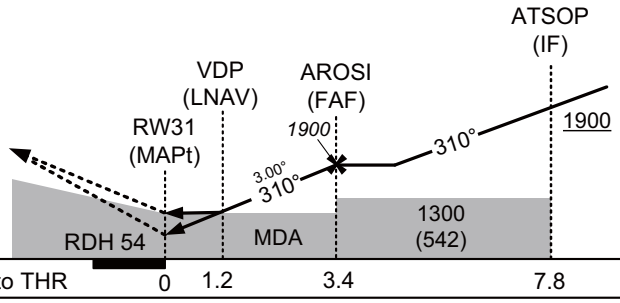


KAGYA (IAF/MAHF)	304735.17N 1305515.40E
TEPPO (IAF)	304536.42N 1310803.50E
MABIT	303532.04N 1311027.31E
ATSOP (IF)	303145.06N 1310737.08E
AROSI (FAF)	303408.98N 1310320.56E
RW31 (MAPt)	303600.65N 1310001.23E
FG150 (MATF)	303847.73N 1305502.47E

NM to Next Fix	MAPt	2	3	FAF
ALT (3.0° APCH Path)	-	1449	1767	1900

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

CAT	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)							
C	1063(305)	1000		1000		1000	1800(1032)	2400
D	1073(315)	1400		1400		1400		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		

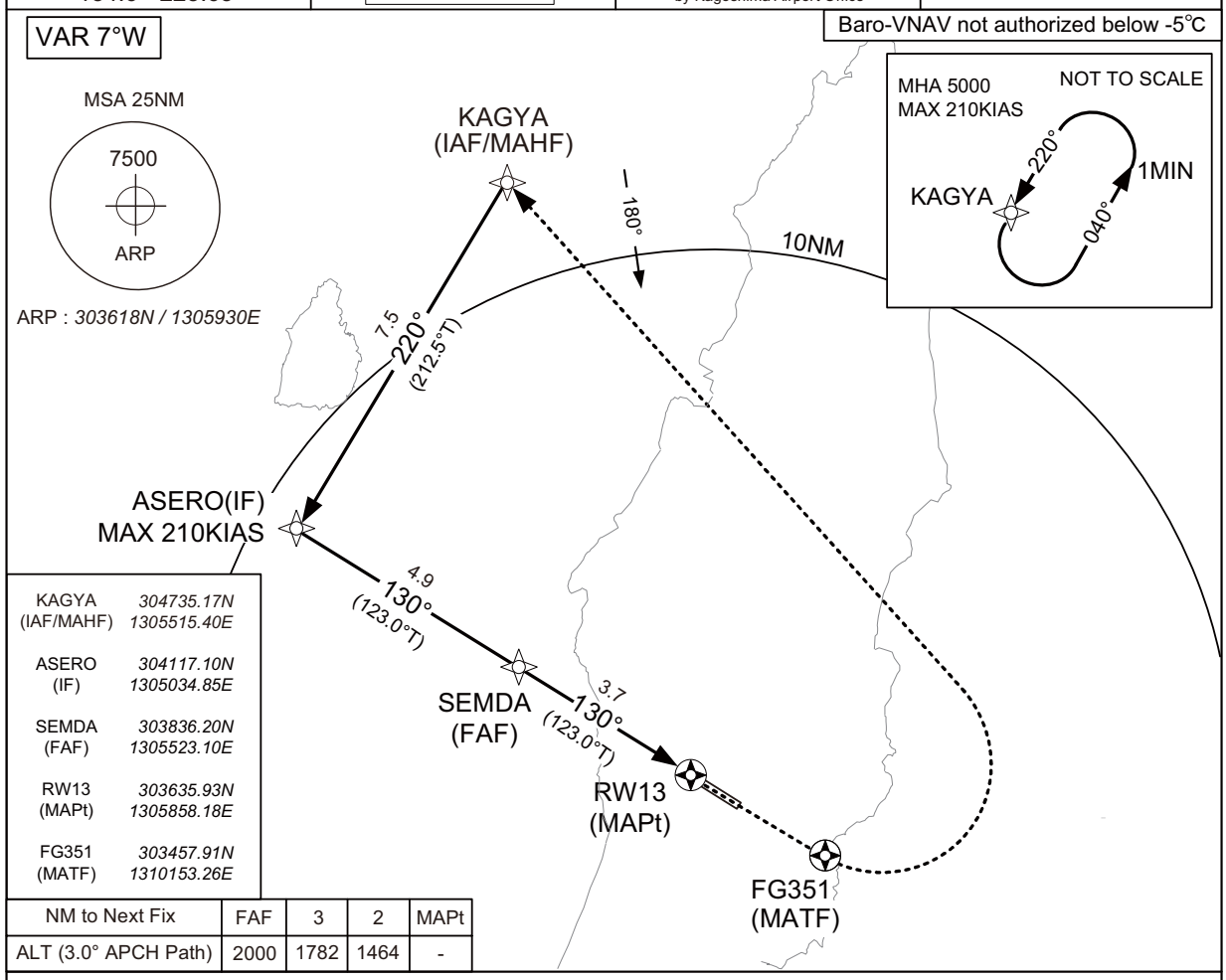
Required additional data

LTP/FTP orthometric height	231.2

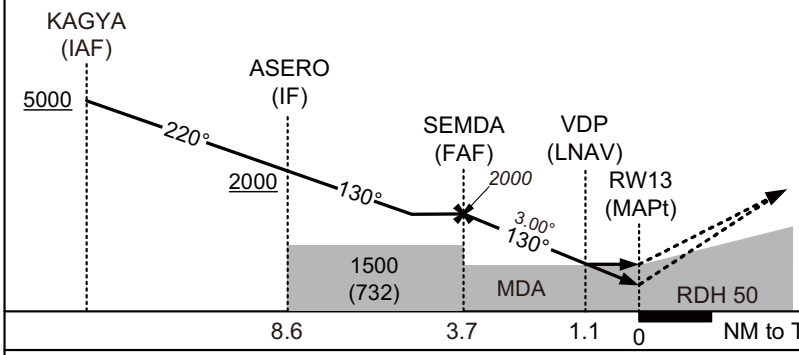
INSTRUMENT APPROACH CHART

RJFG / TANEGASHIMA RNP RWY13

KOBE CONTROL	RNP APCH	TANEGASHIMA RADIO	NO RADAR
133.85 - 315.3 134.6 - 225.65	MSAS CH61693 M13A	118.75 AFIS provided by Kagoshima Airport Office	



NM to Next Fix	FAF	3	2	MAPt
ALT (3.0° APCH Path)	2000	1782	1464	-



MISSED APPROACH

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

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		
C	1043(265)	1200		1400		1400	1800(1032)	2400
D	1052(274)	1400		1600		1600		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 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

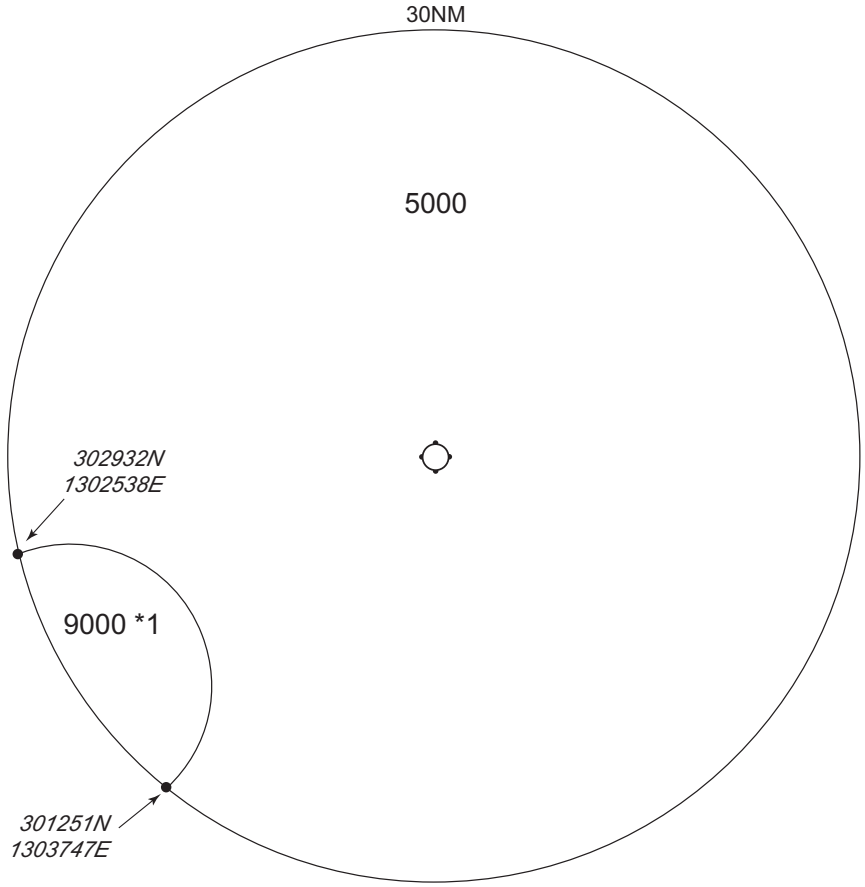
Visual REP

※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



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

CENTER : *303618N/1305930E* (ARP)

CHANGE : Minimum vectoring altitude(6000→5000).