

RJFK / KAGOSHIMA

AD CHART

CHANGE : TWY T7 installed. TWY T8 renamed.

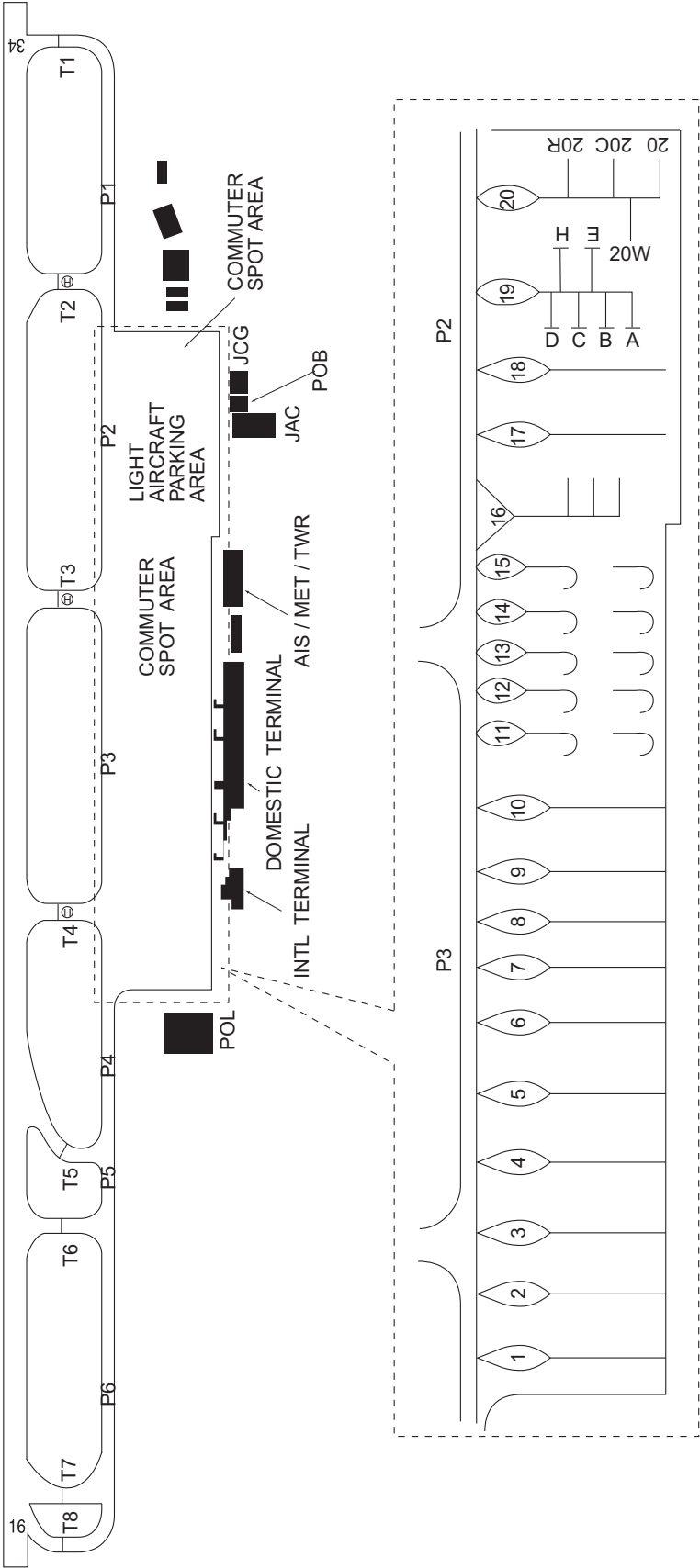
KAGOSHIMA AIRPORT

ELEV 271.6m(891ft) ARP

Designation	Call Sign	Frequency (MHz)
ATIS	Kagoshima Airport	127.05
DLVRY	Kagoshima Delivery	121.8
GND	Kagoshima Ground	121.7
TWR	Kagoshima Tower	118.2 126.2 261.2

FIRE STN

VAR 7°W (2022)
Annual change 5.4°W



AERODROME OBSTACLE CHART - ICAO TYPE A (OPERATING LIMITATIONS)

KAGOSHIMA AIRPORT
RWY : 16/34

DECLARED DISTANCES		
RWY 16		RWY 34
3000m	TAKE OFF RUN AVAILABLE	3000m
3000m	TAKE OFF DISTANCE AVAILABLE	3000m
3000m	ACCELERATE STOP DISTANCE AVAILABLE	3000m
3000m	LANDING DISTANCE AVAILABLE	3000m

ASPHALT CONCRETE
3000m×45m ± ARP

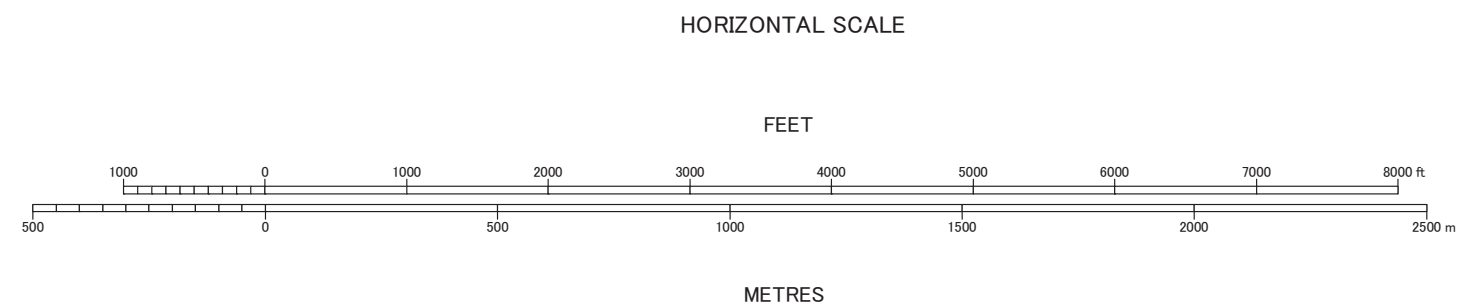
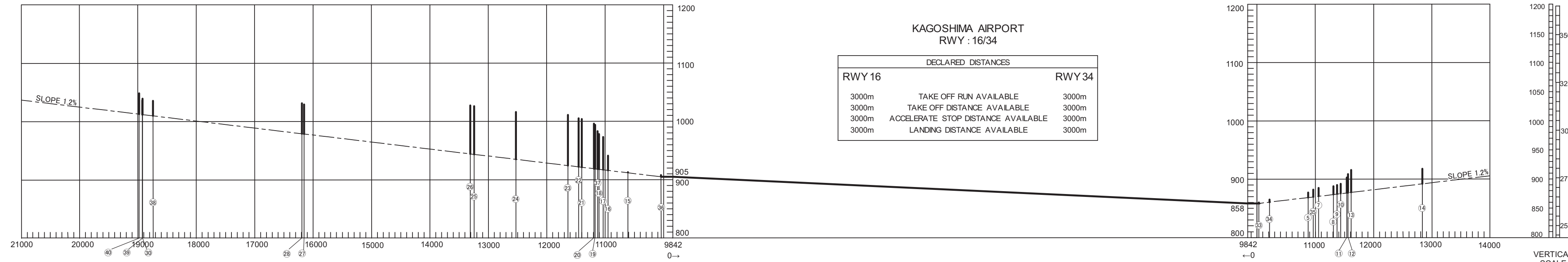
Profile Data:

Stationing	Elevation (m)
0	800
9842	905
11000	858
12000	858
13000	858

Declared Distances Table:

Distance (m)	Take Off Run Available (m)	Take Off Distance Available (m)	Accelerate Stop Distance Available (m)	Landing Distance Available (m)
3000	3000	3000	3000	3000

DECLARED DISTANCES		
RWY 16		RWY 34
3000m	TAKE OFF RUN AVAILABLE	3000m
3000m	TAKE OFF DISTANCE AVAILABLE	3000m
3000m	ACCELERATE STOP DISTANCE AVAILABLE	3000m
3000m	LANDING DISTANCE AVAILABLE	3000m



LEGEND		AMENDMENT RECORD	
		Nr	DATE
①	IDENTIFICATION NUMBER		ENTERED BY
⊙	POLE, TOWER, SPIRE, ANTENNA, ETC		
✱	TREE		
	LEVEE		
+++++	RAILROAD		
~~~~~	RIVER		
- - - - -	TRANSMISSION LINE OR OVERHEAD CABLE		
△	TRIANGULATION POINT		
★	AERONAUTICAL GROUND LIGHT		
■	BUILDING OR LARGE STRUCTURE		
	CONTOURS(ft)		

測量法に基づく国土地理院長承認(使用) R 5JHs 223、国土数値情報(河川、緊急輸送道路)



DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC  
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO  
TYPE B





STANDARD DEPARTURE CHART - INSTRUMENT

RJFK / KAGOSHIMA

SID and TRANSITION

OVSID ONE DEPARTURE

RWY 16 : Climb RWY HDG to KGE2.0DME, turn left HDG 303°...

RWY 34 : Climb RWY HDG to 2000FT, turn right...

... to intercept and proceed via KGE R348 to OVSID.

Note RWY16 : 5.0% climb gradient required up to 1300FT.

RWY34 : 5.0% climb gradient required up to 2000FT.

OBST ALT 1181FT located at 1.4NM 319° FM end of RWY34.

OBST ALT 2067FT located at 6.7NM 345° FM end of RWY34.

KAJIKI TRANSITION

From over OVSID, turn left, direct to KGE VOR/DME.

Cross KGE VOR/DME at or above 7000FT.

SASIK TRANSITION

From over OVSID, via KGE R348 to SASIK.

KAGOSHIMA TRANSITION

From over OVSID, turn left to intercept and proceed via HKC R003 to HKC VORTAC.

CHANGE : OVSID ONE DEPARTURE established. KAJIKI TRANSITION established. PROC course(SASIK TRANSITION, KAGOSHIMA TRANSITION).  
SOGIE THREE DEPARTURE, SAKURAJIMA TRANSITION abolished.



STANDARD DEPARTURE CHART - INSTRUMENT

RJFK / KAGOSHIMA

RNAV SID

MIDAI THREE DEPARTURE		RNAV 1
Note 1 ) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off roll. 2 ) RADAR service required.	Critical DME	RWY16 : HKC:7NM to OICHI — 2NM to OICHI KGE:7NM to OICHI — 2NM to OICHI
	DME GAP	RWY16 : DER — 7NM to OICHI RWY34 : DER — 12NM to SMIKO
	Inappropriate Navaids	See AD 1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

VAR 7°W



RWY16 : Climb on HDG 157° at or above 1300FT, turn right direct to OICHI, to SMIKO at or above 7000FT, to MIDAI at or above FL160.  
RWY34 : Climb on HDG 337° at or above 2000FT, turn right direct to FK400, to SMIKO at or above 7000FT, to MIDAI at or above FL160.  
Note RWY34 : 5.0% climb gradient required up to 3100FT.  
OBST ALT 3117FT located at 7.7NM 046° FM end of RWY34.

STANDARD DEPARTURE CHART - INSTRUMENT

RJFK / KAGOSHIMA

RNAV SID

MIDAI THREE DEPARTURE

RWY16

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	—	—	157 (150.1)	-7.2	—	—	+1300	—	—	RNAV1
002	DF	OICHI	—	—	-7.2	—	R	—	—	—	RNAV1
003	TF	SMIKO	—	099 (091.5)	-7.2	9.4	—	+7000	—	—	RNAV1
004	TF	MIDAI	—	099 (091.6)	-7.2	20.3	—	+FL160	—	—	RNAV1

RWY34

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	—	—	337 (330.1)	-7.2	—	—	+2000	—	—	RNAV1
002	DF	FK400	—	—	-7.2	—	R	—	—	—	RNAV1
003	TF	SMIKO	—	156 (148.5)	-7.2	15.8	—	+7000	—	—	RNAV1
004	TF	MIDAI	—	099 (091.6)	-7.2	20.3	—	+FL160	—	—	RNAV1

STANDARD DEPARTURE CHART - INSTRUMENT

RJFK / KAGOSHIMA

RNAV SID and TRANSITION



CHANGE : New PROC.



STANDARD DEPARTURE CHART - INSTRUMENT

RJFK / KAGOSHIMA

RNAV SID and TRANSITION

ATRUK ONE DEPARTURE

RWY16

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	-	-	158 (150.1)	-7.4	-	-	+1300	-	-	RNAV1
002	DF	FK602	Y	-	-7.4	-	-	-	-	-	RNAV1
003	DF	FK601	-	-	-7.4	-	R	-	-	-	RNAV1
004	TF	ATRUK	-	006 (358.9)	-7.4	13.7	-	-	-	-	RNAV1

RWY34

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	-	-	338 (330.1)	-7.4	-	-	+2000	-	-	RNAV1
002	DF	OVSID	-	-	-7.4	-	R	-	-	-	RNAV1
003	TF	ATRUK	-	348 (340.9)	-7.4	7.5	-	-	-	-	RNAV1

ASHIKITA 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	ATRUK	-	-	-7.4	-	-	-	-	-	RNAV1
002	TF	SASIK	-	348 (340.9)	-7.4	14.4	-	-	-	-	RNAV1

CHANGE : New PROC.

STANDARD DEPARTURE CHART - INSTRUMENT



## STANDARD ARRIVAL CHART -INSTRUMENT

RJFK / KAGOSHIMA

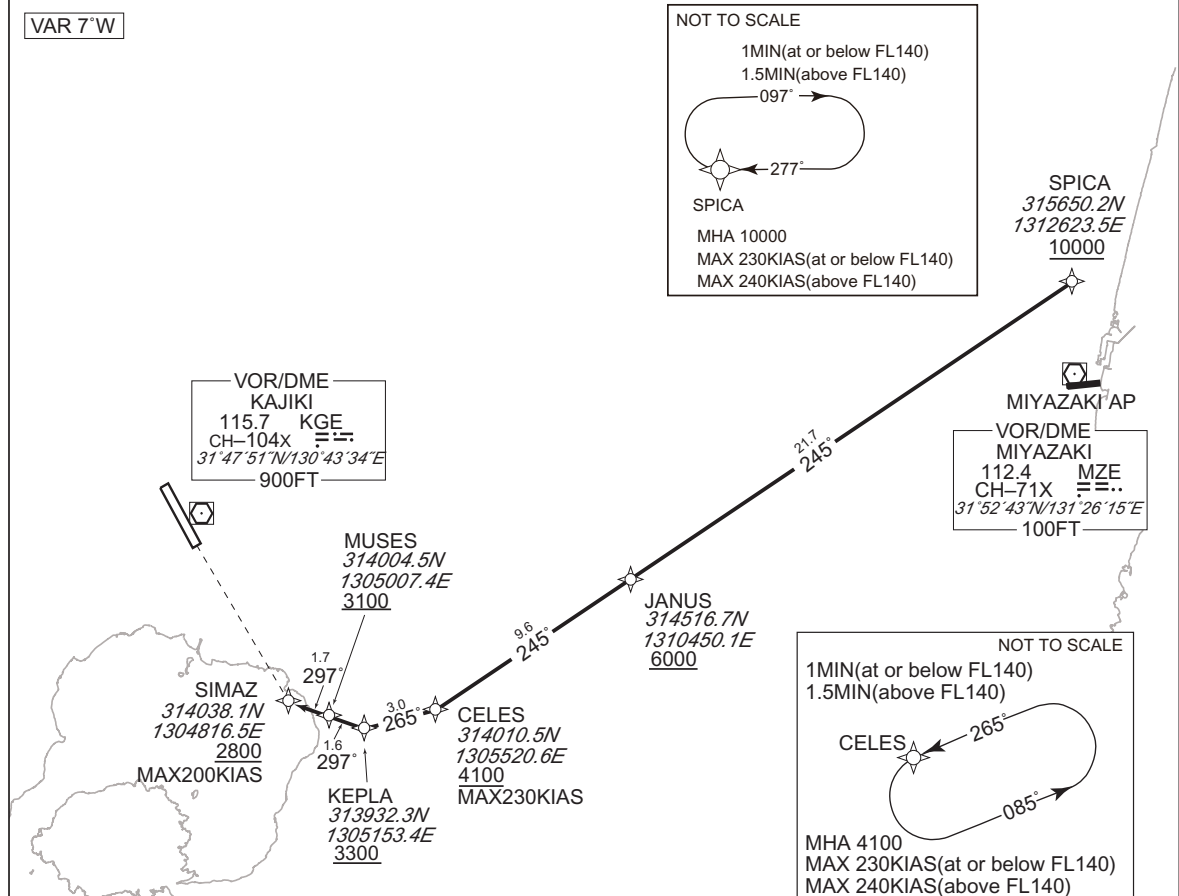
RNAV STAR RWY34

## SIMAZ EAST ARRIVAL

RNAV 1

Note 1 ) DME/DME/IRU or GNSS required.  
2 ) RADAR service required.

VAR 7°W



From SPICA at or above 10000FT, to JANUS at or above 6000FT, to CELES at or above 4100FT, to KEPLA at or above 3300FT, to MUSES at or above 3100FT, to SIMAZ at above 2800FT.

Critical DME	—
DME GAP	—
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	SPICA	—	—	-7.2	—	—	+10000	—	—	RNAV1
002	TF	JANUS	—	245 (237.8)	-7.2	21.7	—	+6000	—	—	RNAV1
003	TF	CELES	—	245 (237.8)	-7.2	9.6	—	+4100	-230	—	RNAV1
004	TF	KEPLA	—	265 (257.8)	-7.2	3.0	—	+3300	—	—	RNAV1
005	TF	MUSES	—	297 (289.6)	-7.2	1.6	—	+3100	—	—	RNAV1
006	TF	SIMAZ	—	297 (289.6)	-7.2	1.7	—	+2800	-200	—	RNAV1

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	SPICA	277 (270.1)	-7.4	1.0(-14000) 1.5(+14001)	R	10000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CELES	265 (257.8)	-7.2	1.0(-14000) 1.5(+14001)	L	4100	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : RNAV HLDG established(SPICA).



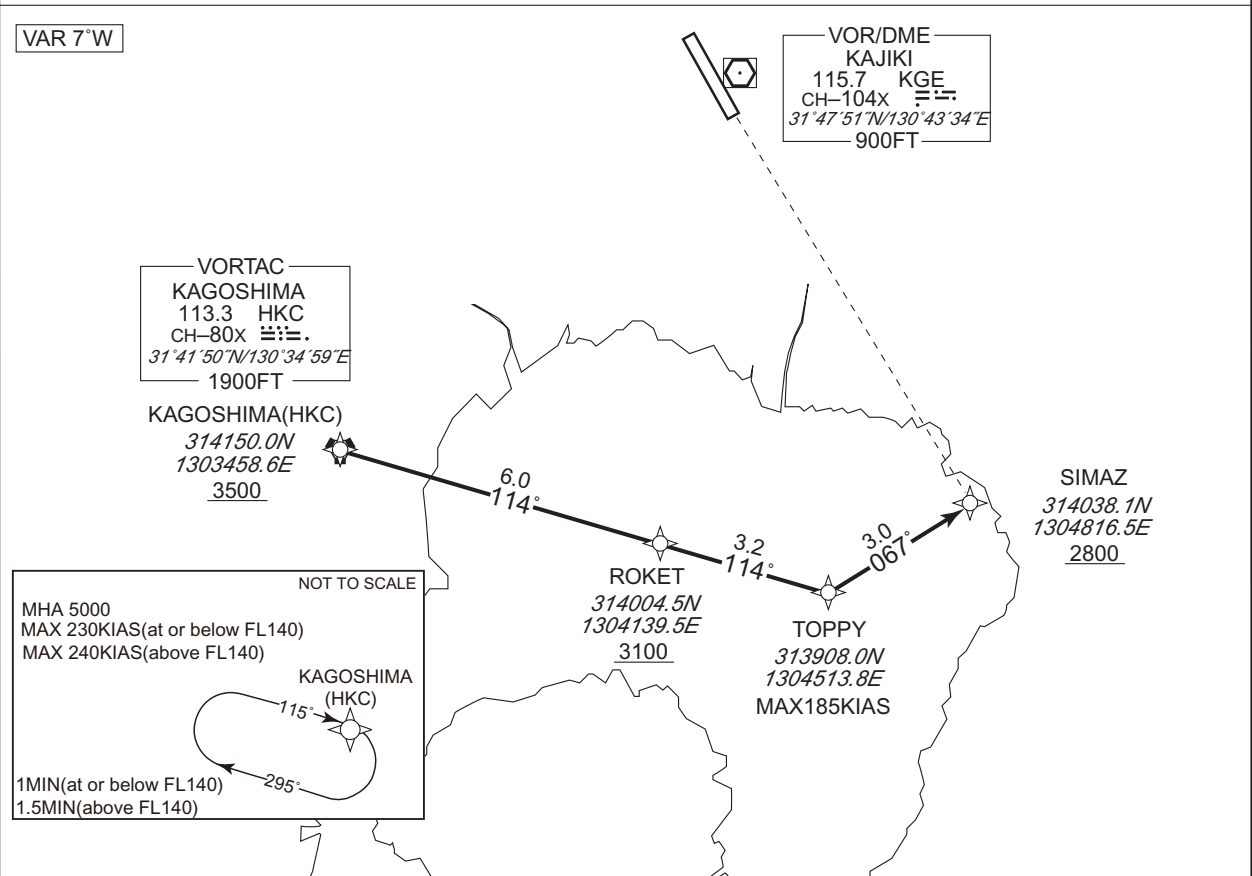
STANDARD ARRIVAL CHART -INSTRUMENT

RJFK / KAGOSHIMARNAV STAR RWY34

SIMAZ NORTH ARRIVAL

RNAV 1

Note 1 ) DME/DME/IRU or GNSS required.  
2 ) RADAR service required.



## STANDARD ARRIVAL CHART -INSTRUMENT

RJFK / KAGOSHIMA

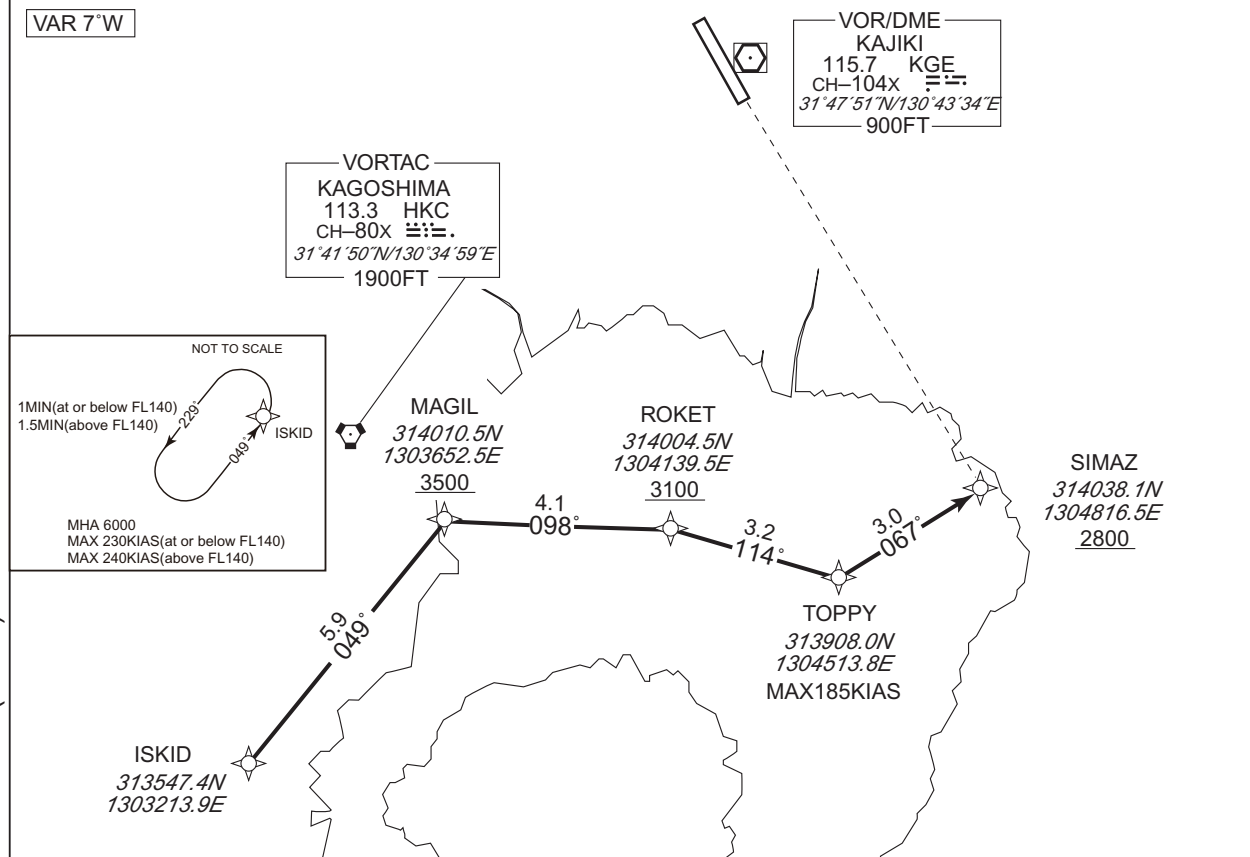
RNAV STAR RWY34

## SIMAZ SOUTH ARRIVAL

RNAV 1

Note 1 ) DME/DME/IRU or GNSS required.  
2 ) RADAR service required.

VAR 7°W



From ISKID, to MAGIL at or above 3500FT, to ROKET at or above 3100FT, to TOPPY, to SIMAZ at or above 2800FT.

Critical DME	-
DME GAP	ISKID - 3NM to MAGIL 1NM to MAGIL - SIMAZ
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	ISKID	-	-	-6.9	-	-	-	-	-	RNAV1
002	TF	MAGIL	-	049 (042.0)	-6.9	5.9	-	+3500	-	-	RNAV1
003	TF	ROKET	-	098 (091.4)	-6.9	4.1	-	+3100	-	-	RNAV1
004	TF	TOPPY	-	114 (107.2)	-6.9	3.2	-	-	-185	-	RNAV1
005	TF	SIMAZ	-	067 (059.9)	-6.9	3.0	-	+2800	-	-	RNAV1

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	ISKID	049 (042.0)	-7.4	1.0(-14000) 1.5(+14001)	L	6000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : RNAV HLDG established. HLDG for using NAVAID abolished(ISKID).

## STANDARD ARRIVAL CHART -INSTRUMENT

RJFK / KAGOSHIMA

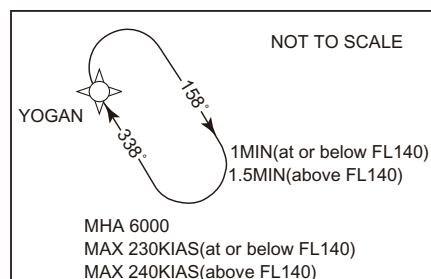
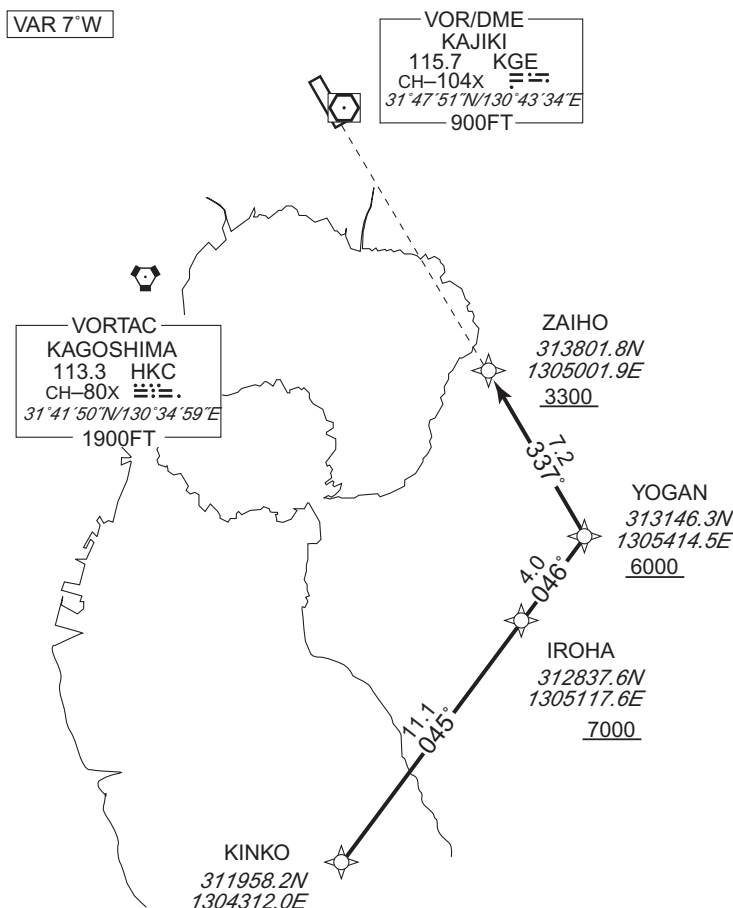
RNAV STAR RWY34

## KINKOH ARRIVAL

RNAV 1

Note 1 ) DME/DME/IRU or GNSS required.

2 ) RADAR service required.



From KINKO, to IROHA at or above 7000FT, to YOGAN at or above 6000FT, to ZAIHO at or above 3300FT.

Critical DME	JAT : 10.2NM to IROHA – 5.7NM to IROHA NHT : 5.6NM to IROHA – 2.4NM to IROHA 2.4NM to ZAIHO – 1.2NM to ZAIHO HKC : 4.4NM to ZAIHO – 1.3NM to ZAIHO
DME GAP	–
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	KINKO	–	–	-6.9	–	–	–	–	–	RNAV1
002	TF	IROHA	–	045 (038.6)	-6.9	11.1	–	+7000	–	–	RNAV1
003	TF	YOGAN	–	046 (038.6)	-6.9	4.0	–	+6000	–	–	RNAV1
004	TF	ZAIHO	–	337 (330.2)	-6.9	7.2	–	+3300	–	–	RNAV1

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	YOGAN	338 (330.2)	-7.4	1.0(-14000) 1.5(+14001)	R	6000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : RNAV HLDG established. HLDG for using NAVAID abolished(YOGAN).



## STANDARD ARRIVAL CHART-INSTRUMENT

RJFK / KAGOSHIMA

RNAV STAR RWY16

## OGOJO ARRIVAL

RNAV 1

Note 1) DME/DME/IRU or GNSS required.  
2) RADAR service required.

VAR 7°W



From SPICA at or above 10000FT, to DEMET at or above 10000FT, to PERSE at or above 7000FT, to OGOJO at or above 5000FT.

Critical DME	—	—
DME GAP	—	—
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	SPICA	—	—	-7.2	—	—	+10000	—	—	RNAV1
002	TF	DEMET	—	284 (276.6)	-7.2	20.1	—	+10000	—	—	RNAV1
003	TF	PERSE	—	284 (276.4)	-7.2	13.7	—	+7000	—	—	RNAV1
004	TF	OGOJO	—	283 (276.3)	-7.2	3.6	—	+5000	—	—	RNAV1

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	SPICA	277 (270.1)	-7.4	1.0(-14000) 1.5(+14001)	R	10000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : RNAV HLDG established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJFK / KAGOSHIMARNAV STAR RWY16

YUKSA ARRIVAL

RNAV 1

Note 1 ) DME/DME/IRU or GNSS required.  
2 ) RADAR service required.



From MOCOS at or above 10000FT, to SEPPE at or above 10000FT, to JADDO, to YUKSA at or above 5000FT.

Critical DME	MZE	2NM to JADDO - JADDO
	KUE	1NM to YUKSA - YUKSA
	MZE	1NM to YUKSA - YUKSA
DME GAP	—	—
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	MOCOS	—	—	-6.9	—	—	+10000	—	—	RNAV1
002	TF	SEPPE	—	281 (273.6)	-6.9	4.0	—	+10000	—	—	RNAV1
003	TF	JADDO	—	280 (273.6)	-6.9	8.7	—	—	—	—	RNAV1
004	TF	YUKSA	—	231 (224.0)	-6.9	7.3	—	+5000	—	—	RNAV1

CHANGE : Description of VAR and PROC name.

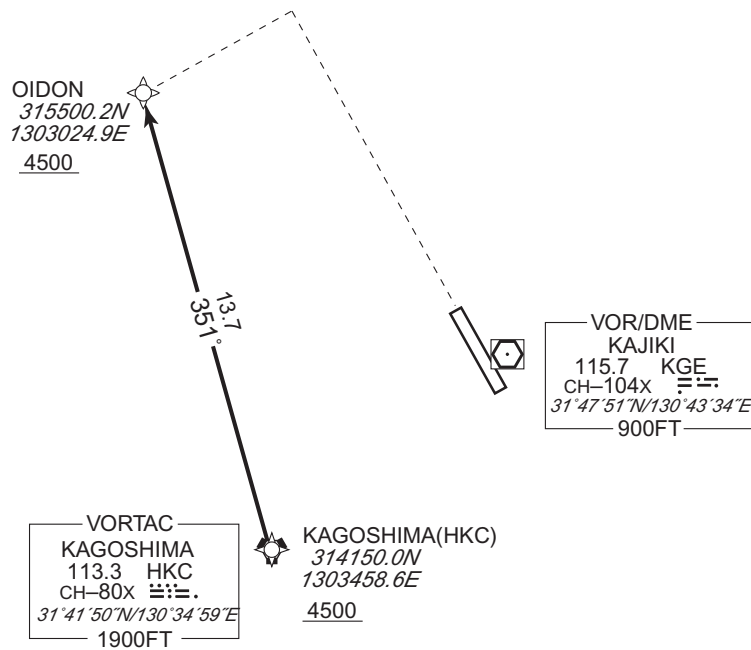
STANDARD ARRIVAL CHART-INSTRUMENT

RJFK / KAGOSHIMA RNAV STAR RWY16

OIDON ARRIVAL	RNAV 1
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Note 1 ) DME/DME/IRU or GNSS required.  
2 ) RADAR service required.

VAR 7°W



From HKC at or above 4500FT, to OIDON at or above 4500FT.

Critical DME	HKC	7NM to OIDON - OIDON
DME GAP	HKC - 10NM to OIDON	
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	HKC	—	—	-6.9	—	—	+4500	—	—	RNAV1
002	TF	OIDON	—	351 (343.6)	-6.9	13.7	—	+4500	—	—	RNAV1

CHANGE : Description of VAR and PROC name.



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## RJFK / KAGOSHIMA

ILS Z or LOC Z RWY34



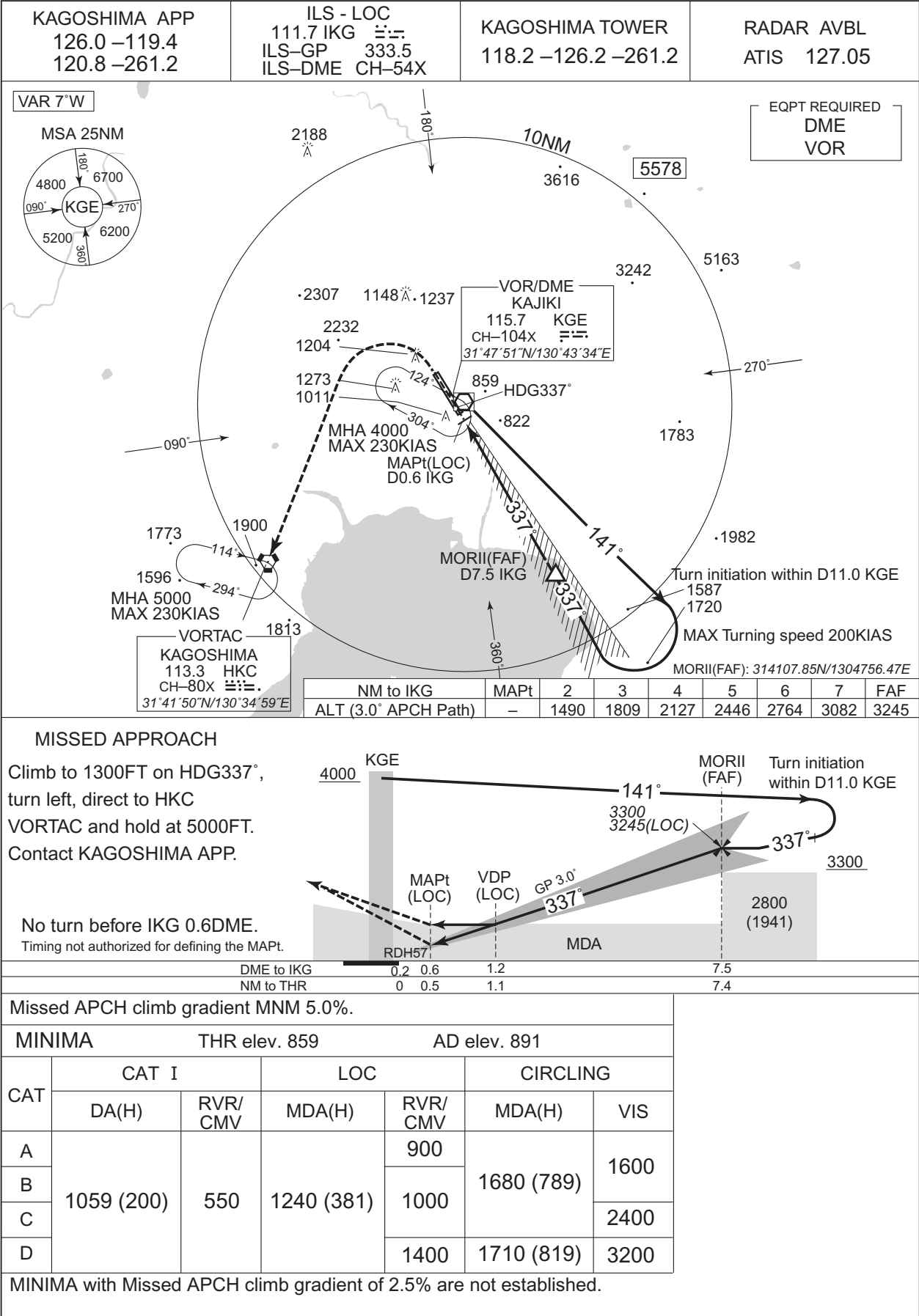
Missed APCH climb gradient MNM 5.0%

MINIMA		THR elev. 859		AD elev. 891		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	1059 (200)	550	1240 (381)	900	1680 (789)	1600
B				1000		
C						
D				1400	1710 (819)	3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.

INSTRUMENT APPROACH CHART

RJFK / KAGOSHIMAILS Y or LOC Y RWY34

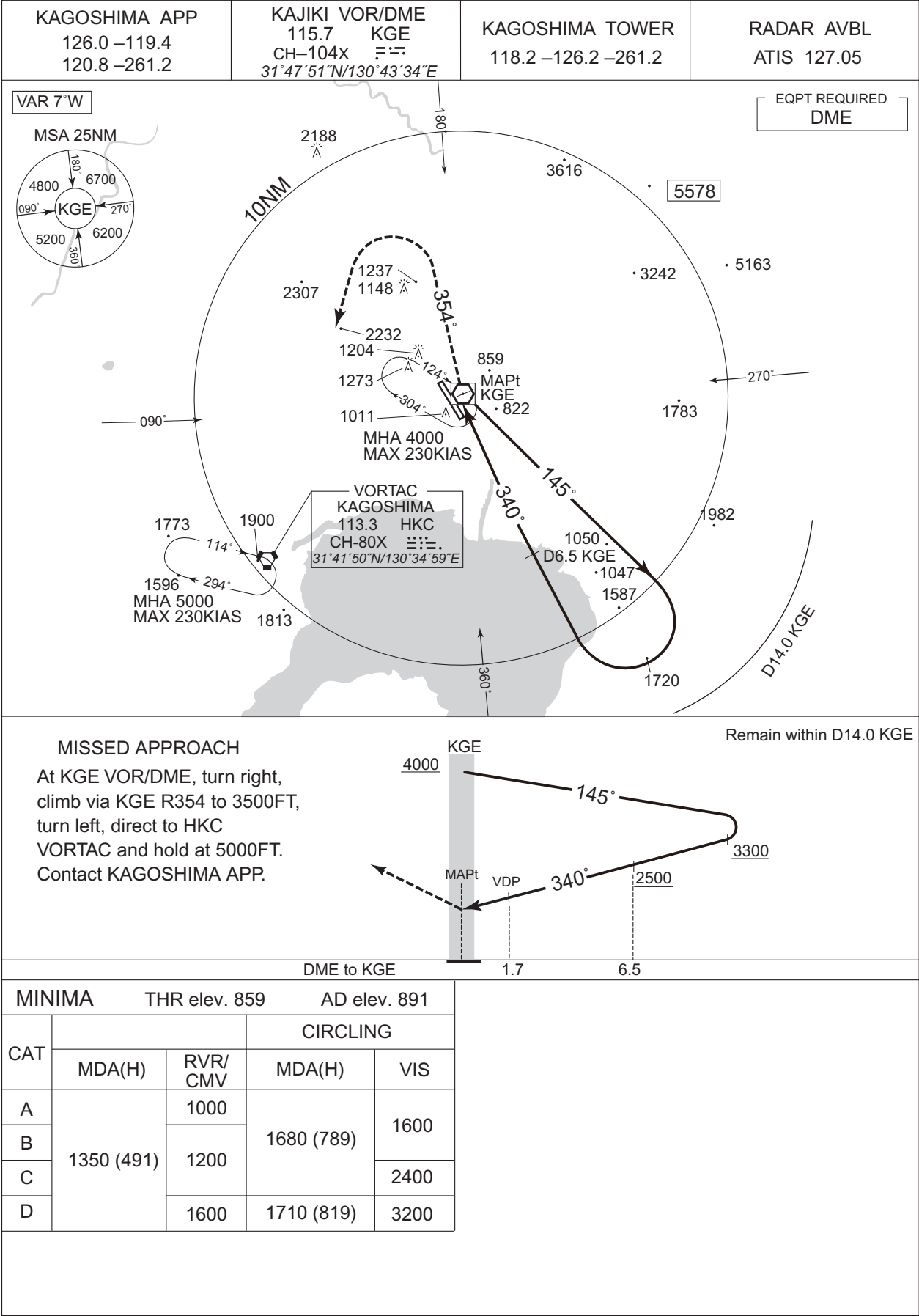




INSTRUMENT APPROACH CHART

RJFK / KAGOSHIMA

VOR RWY34



CHANGE : MINIMA for circling. HLDG pattern.

VOR A

KAGOSHIMA APP  
126.0 – 119.4  
120.8 – 261.2

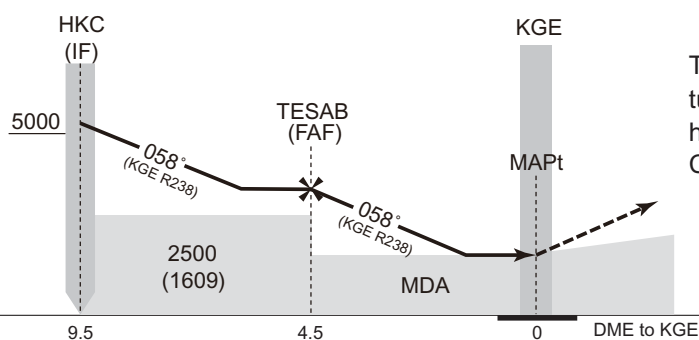
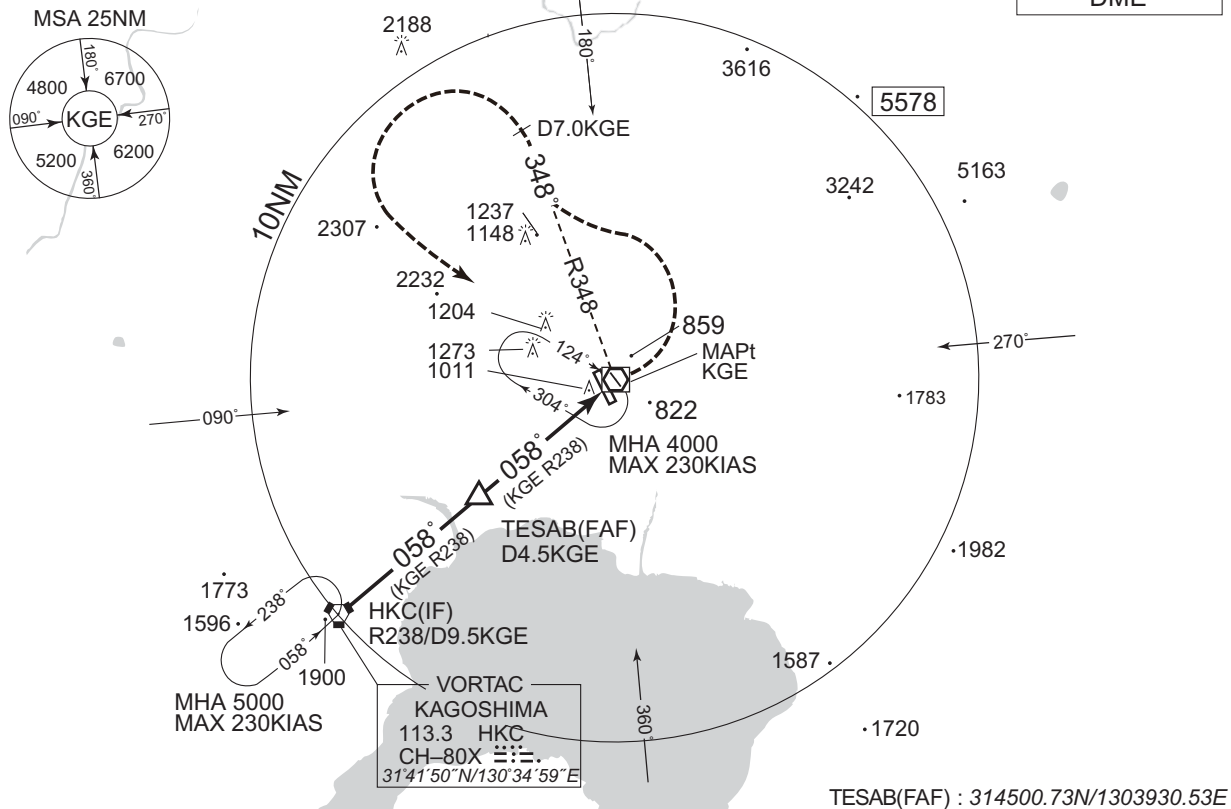
KAJIKI VOR/DME  
115.7 KGE  $\equiv \equiv$   
CH-104X  
31°47'51"N/130°43'34"E

KAGOSHIMA TOWER  
118.2 – 126.2 – 261.2

RADAR AVBL  
ATIS 127.05

VAR 7°W

EQPT REQUIRED  
DME



### MISSED APPROACH

Turn left, via KGE R348 to KGE 7.0DME,  
turn left, direct to KGE VOR/DME and  
hold at 4000FT.  
Contact KAGOSHIMA APP.

MINIMA		AD elev. 891
CAT	CIRCLING	
	MDA(H)	VIS
A	1680 (789)	1600
B		
C		2400
D	1710 (819)	3200

CHANGE : Missed APCH course. MINIMA. OCA(H) established. TESAB established. HLDG pattern.

## RJFK / KAGOSHIMA

RNP RWY34(LPV only)



INSTRUMENT APPROACH CHART

RJFK / KAGOSHIMA

RNP RWY34(LPV only)

FAS DATA BLOCK

Operation type	0	LTP/FTP ellipsoidal height	+02939
SBAS service provider identifier	2	FPAP latitude	314854.3765N
Airport identifier	RJFK	FPAP longitude	1304241.3430E
Runway	34	Threshold crossing height	00017.3
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	M34A	∠ length offset	0000
LTP/FTP latitude	314730.0345N	HAL	40.0
LTP/FTP longitude	1304338.3800E	VAL	50.0
CRC remainder	7F3AEA21		

Required additional data

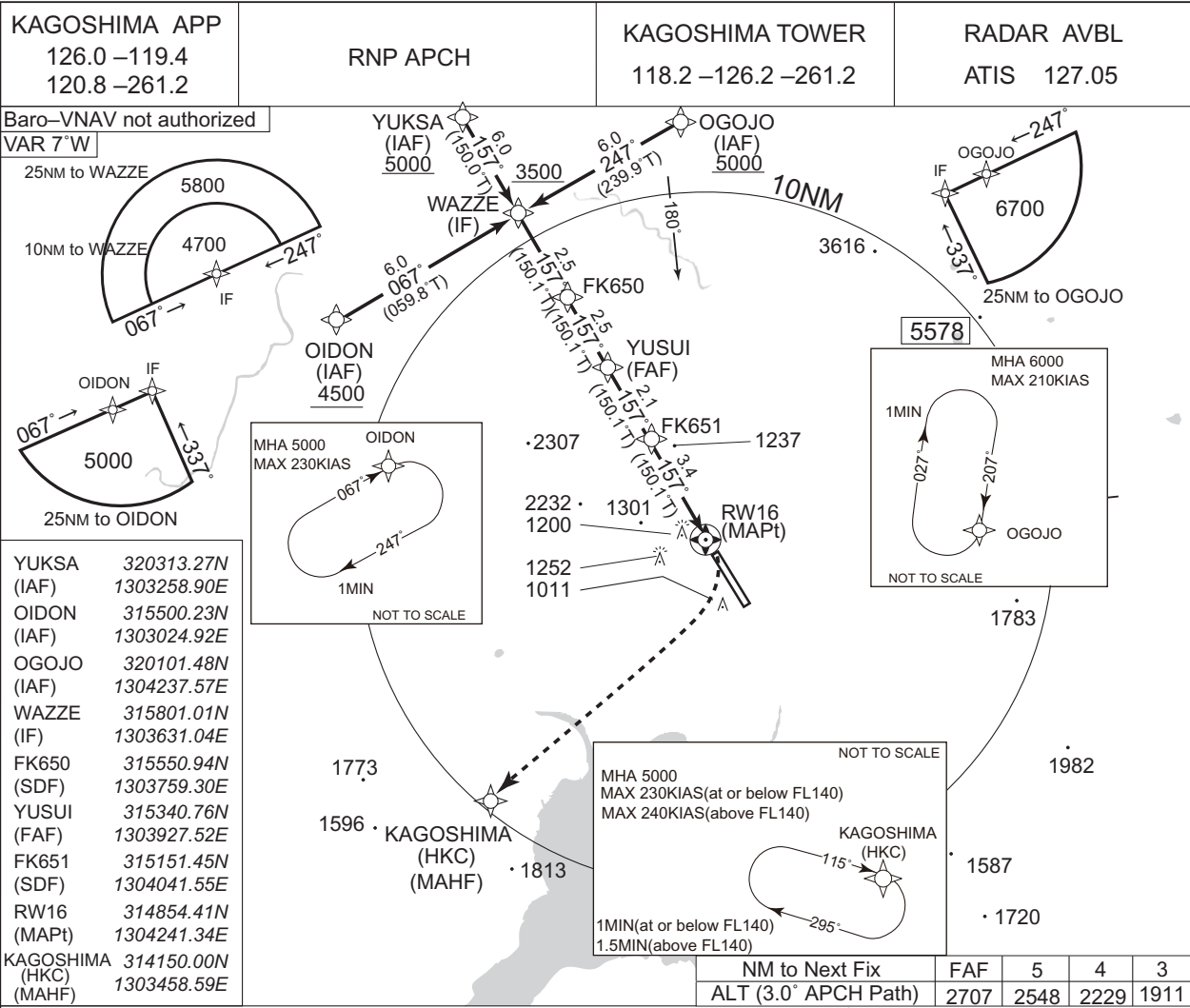
LTP/FTP orthometric height	262.2
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CHANGE : New PROC.

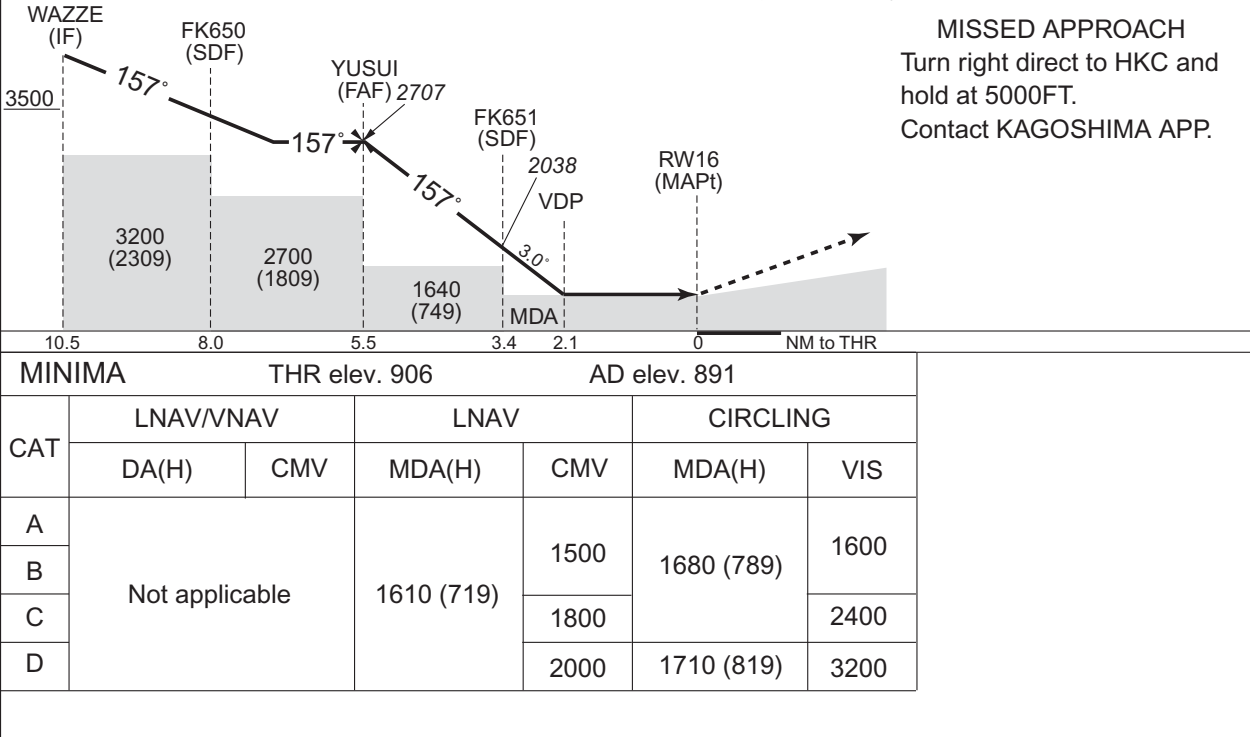
INSTRUMENT APPROACH CHART

RJFK / KAGOSHIMA

RNP RWY16



CHANGE : MINIMA for circling.

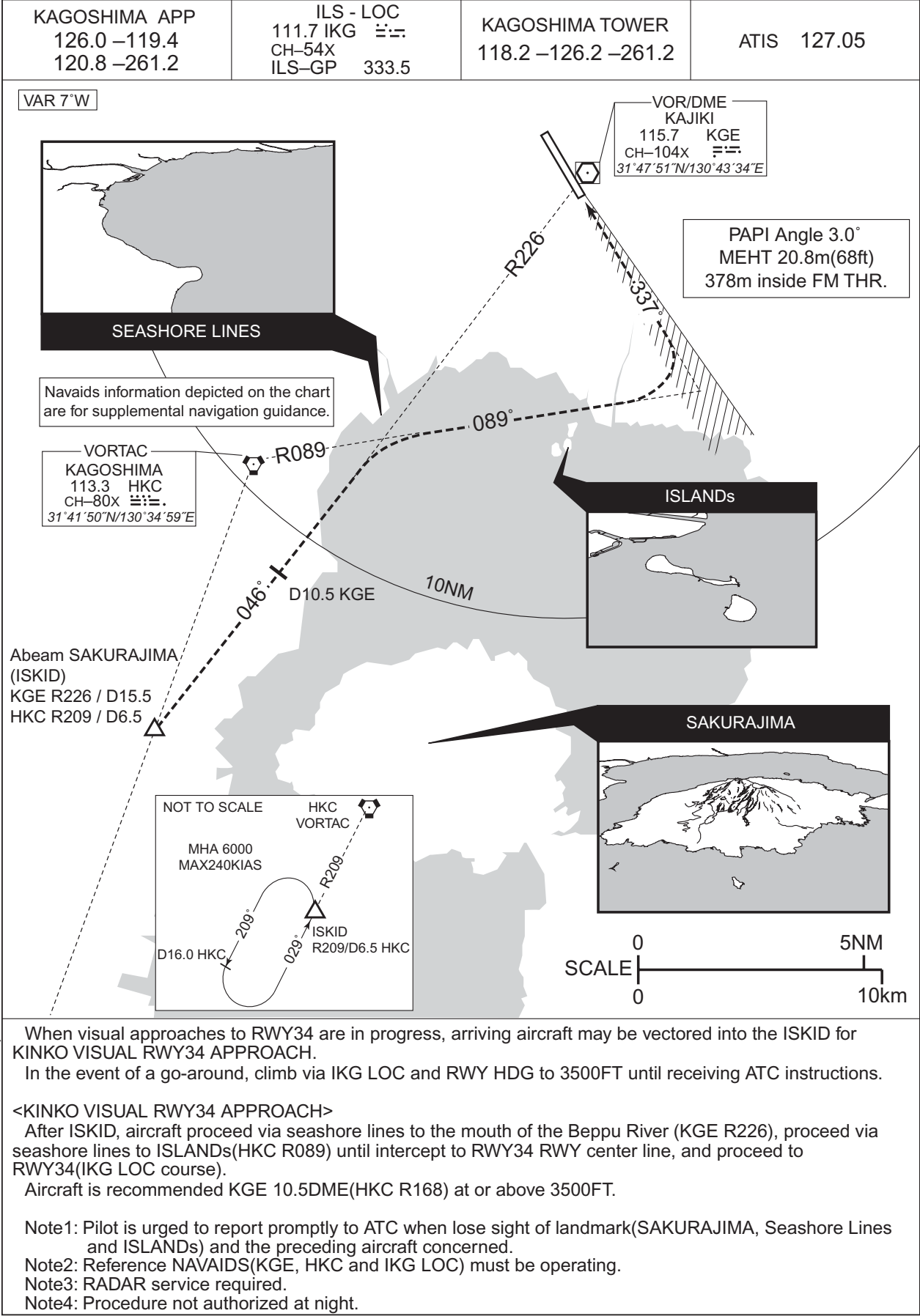




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RJFK / KAGOSHIMA

VISUAL APPROACH  
KINKO VISUAL RWY34



RJFK / KAGOSHIMA

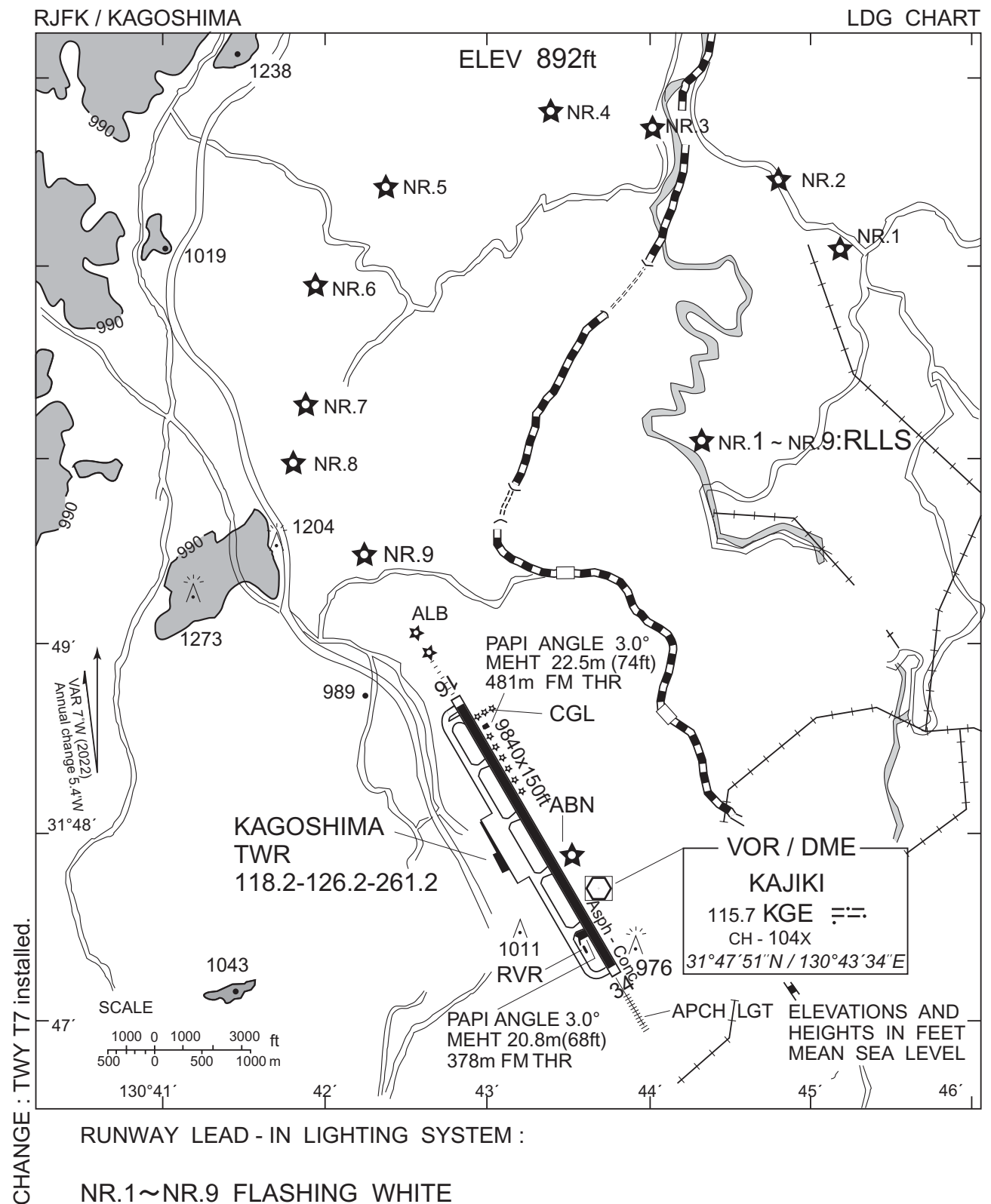
Visual REP



※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).

Call sign	BRG / DIST from ARP	Remarks
鶴田ダム Tsuruta Dam	314°T / 16.0NM	ダム Dam
栗野 Kurino	001°T / 8.8NM	JR駅 JR Station
神宮 Jingu	081°T / 6.1NM	JR駅 JR Station
蒲生 Kamo	254°T / 6.8NM	住吉池 Pond
都城 Miyakonojo	102°T / 18.6NM	JR駅 JR Station
加治木タウン Kajiki Town	214°T / 5.3NM	網掛川河口 River mouth (The Amikake)
大崎鼻 Osakibana	211°T / 10.0NM	崎 Point
鹿児島シティ Kagoshima City	211°T / 14.7NM	港 Harbor

CHANGE : Map updated. BRG/DIST from ARP.



## Minimum Vectoring Altitude CHART

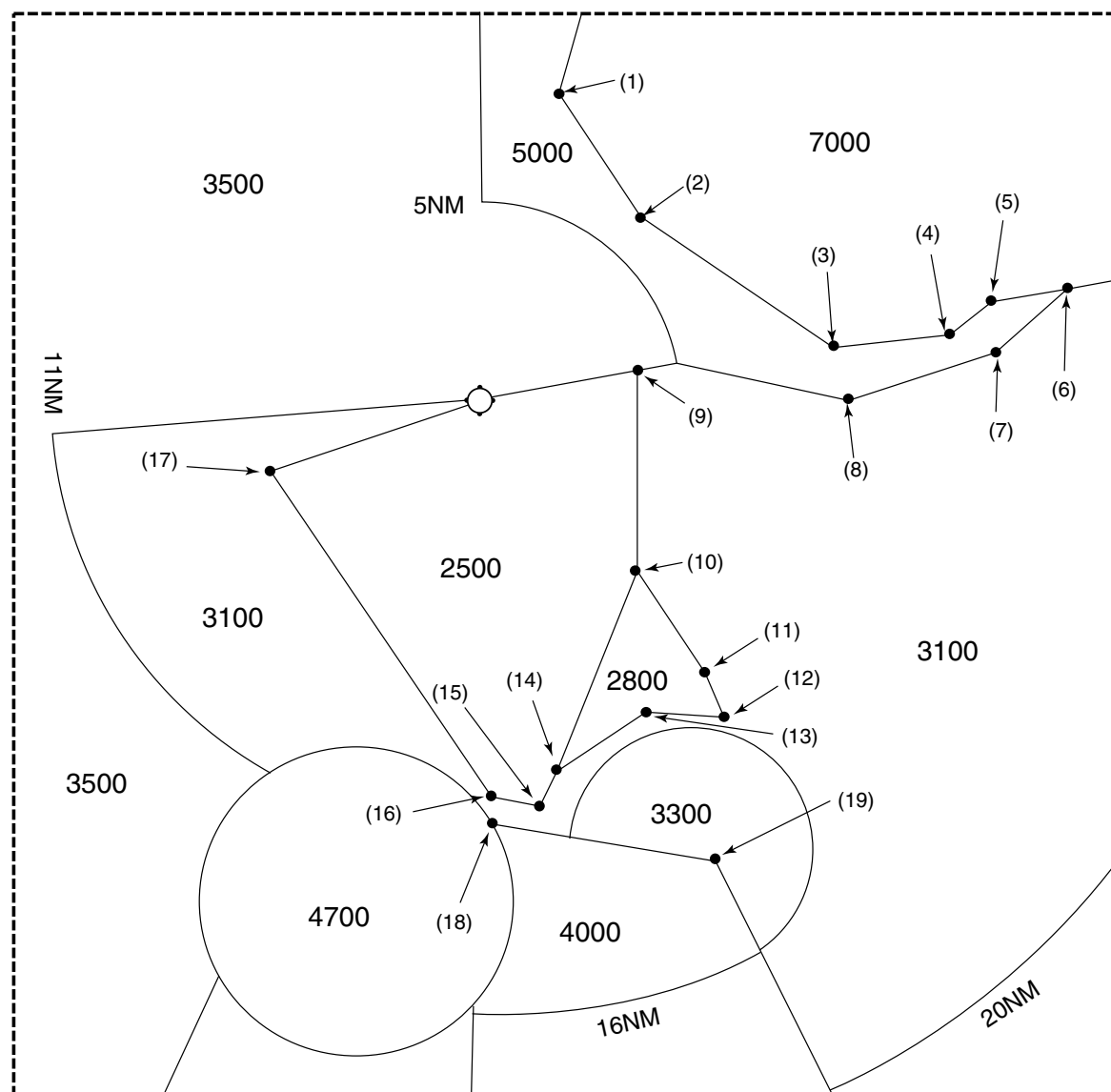




RJFK / KAGOSHIMA

Minimum Vectoring Altitude CHART

enlarged view



- |                        |                       |
|------------------------|-----------------------|
| ( 1 ) 315600N/1304528E | (11) 314059N/1304947E |
| ( 2 ) 315250N/1304805E | (12) 314004N/1305007E |
| ( 3 ) 314927N/1305345E | (13) 314005N/1304809E |
| ( 4 ) 314951N/1305709E | (14) 313829N/1304518E |
| ( 5 ) 315042N/1305825E | (15) 313733N/1304453E |
| ( 6 ) 315102N/1310029E | (16) 313747N/1304326E |
| ( 7 ) 314919N/1305824E | (17) 314616N/1303653E |
| ( 8 ) 314801N/1305359E | (18) 313707N/1304328E |
| ( 9 ) 314858N/1304746E | (19) 313608N/1305004E |
| (10) 314342N/1304742E  |                       |