AD 2 AERODROMES

RJFO AD 2.1 AERODROME LOCATION INDICATOR AND NAME

RJFO - OITA

RJFO AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	*332846N/1314414E* 007 Degrees /1.5KM FM RWY 01 THR
2	Direction and distance from (city)	16NM NE FM OITA City
3	Elevation/ Reference temperature	17FT / 30°C
4	Geoid undulation at AD ELEV PSN	104FT
5	MAG VAR/ Annual change	7°W(2009) / 2'W
6	AD Administration, address, telephone, telefax, telex, AFS, e-mail and/or Web-site addresses	JCAB Aza Omida, Itoharu, Musashi-machi, Kunisaki-shi, Oita Pref. 873-0421 JAPAN. Tel:0978(67)3771, 0978(67)3773 Fax:0978(67)3780, 0978(67)3781(AIS) AFS:RJFOYFYX
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Nil

RJFO AD 2.3 OPERATIONAL HOURS

1	AD Administration	2230 - 1330
2	Customs and immigration	Customs:2330-0815 Immigration:INTL SKED FLT hours only
3	Health and sanitation	INTL SKED FLT hours only
4	AIS Briefing Office	2230 - 1330
5	ATS Reporting Office(ARO)	Nil
6	MET Briefing Office	H24 (FUKUOKA)
7	ATS	2230 - 1330
8	Fuelling	2230 - 1330
9	Handling	2230 - 1330
10	Security	2230 - 1330
11	De-icing	Nil
12	Remarks	Nil

RJFO AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	All the modern institutions that with the weight thing to Boeing 747 type freighter.
2	Fuel/ oil types	JET A-1
3	Fuelling facilities/ capacity	Fuel Truck / Not Limitation
4	De-icing facilities	Nil
5	Hangar space for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	Nil

RJFO AD 2.5 PASSENGER FACILITIES

1	Hotels	Near FM Airport
2	Restaurants	At Airport
3	Transportation	Buses and Taxis
4	Medical facilities	Hospital in Aki-town 3km
5	Bank and Post Office	BANK ATM at Airport
6	Tourist Office	At Airport
7	Remarks	Nil

RJFO AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	CAT 9
2	Rescue equipment	Chemical fire fighting truck x 3 Water-supply truck Lighting power supply truck Emergency medical equipments conveyance truck
3	Capability for removal of disabled aircraft	Ask AD Administration
4	Remarks	Nil

RJFO AD 2.7 SEASONAL AVAILABILITY-CLEARING

1	Types of clearing equipment	Clearing equipments: Sweeper x 1 Snow removal equipments: NIL(commission)
2	Clearance priorities	(1) RWY, TWY T0 T6 P, Spot 7-9 (2) TWY T1 T5, Spot 5-6 (3) TWY T2 T3 T4, Spot 1-3 10 11
3	Remarks	Snow removal will be commenced when the RWY and TWY are covered with snow its depth 3cm or more(Ask AD administration for details)

RJFO AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron surface and strength	Surface: Asphalt-concrete and Cement-concrete Strength : Spot NR1A, 1B, 2, 3 : PCR 640/F/D/X/T Spot NR5, 6 : PCR 797/R/B/W/T Spot NR7, 8, 9, 10 : PCR 925/R/B/W/T Spot NR11 : PCR 1132/R/B/W/T
2	Taxiway width, surface and strength	Surface: Asphalt-concrete and Cement-concrete Strength : TWY T0, T1, T2, T3, T4, T5, T6: PCR 1041/F/C/X/T TWY P0, P1, P3, P4, P5: PCR 1041/F/C/X/T TWY P2: PCR 1132/R/B/W/T Width: TWY T1, T2, T3, T4, T5: 34m TWY T0, T6: 28.5m TWY P0, P1, P2, P3, P4, P5: 23m
3	ACL and elevation	Not Available
4	VOR checkpoints	Not Available
5	INS checkpoints	(Spot NR) 2 : *332844.43N,1314403.07E* 3 : *332842.98N,1314403.05E* 5 : *332841.51N,1314403.02E* 6 : *332840.05N,1314403.01E* 7 : *332837.39N,1314359.83E* 8 : *332835.12N,1314359.81E* 9 : *332832.85N,1314359.79E* 10 : *332830.58N,1314359.77E* 11 : *332828.47N,1314359.71E*
6	Remarks	Nil

RJFO AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and Visual docking/ parking guidance system of aircraft stands	ACFT stand ID signs: Spot 1-11
2	RWY and TWY markings and LGT	RWY:RWY01/19(SEE RJFO AD2.24) (Marking) RWY designation, RWY CL, RWY THR, RWY middle point, Aiming point, TDZ, RWY side stripe (LGT) RCLL, REDL, RTHL, RENL, RTZL(RWY01), WBAR(RWY01) TWY:ALL TWY (Marking) TWY CL, RWY HLDG PSN, TWY side stripe (LGT) TWY edge LGT, TWY CL LGT, RWY guard LGT, Taxiing guidance sign
3	Stop bars	Nil
4	Remarks	(Marking) Overrun area (LGT) Apron flood LGT

RJFO AD 2.10 AERODROME OBSTACLES

In Area2 See Obstacle data

In Area3 To be developed

RJFO AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	FUKUOKA
2	Hours of service MET Office outside hours	H24 (FUKUOKA)
3	Office responsible for TAF preparation Periods of validity	FUKUOKA 30 Hours
4	Trend forecast Interval of issuance	Nil
5	Briefing/ consultation provided	Briefing is available upon inquiry at FUKUOKA
6	Flight documentation Language(s) used	C En
7	Charts and other information available for briefing or consultation	S_6, U_{85}, U_7, U_5, U_3, U_{25}, U_2/Tr, P_S, P_5, P_3, P_{25}, P_{SWE}, P_{SWF}, P_{SWG}, P_{SWI}, P_{SWM}, P_{SW}(domestic), E, C, W_E, W_F, W_G, W_I, W, N
8	Supplementary equipment available for providing information	Nil
9	ATS units provided with information	TWR, APP, ATIS
10	Additional information(limitation of service, etc.)	Nil

RJFO AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY(M)	Strength(PCR) and surface of RWY	THR coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
01	000°	3000×45	PCR 1041/F/C/X/T Asphalt-Concrete	*332757.53N* *1314413.22E* 104F*T*	THR ELEV:19FT TDZ ELEV:19FT
19	180°	3000×45	PCR 1041/F/C/X/T Asphalt-Concrete	*332934.89N* *1314414.08E* 104FT	THR ELEV:17FT

Slope of RWY	Strip Dimensions(M)	RESA (Overrun) Dimensions (M)	Remarks
7	10	11	14
See AD CHART	3120×300	190×(MNM:152 MAX:300)*	RWY Grooving 3000m × 30m
	3120×300	40×300 *For detail, ask airport administrator	

RJFO AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
01	3000	3000	3000	3000	Nil
19	3000	3000	3000	3000	Nil

RJFO AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	RTHL Color WBAR	PAPI (VASIS) Angle DIST FM THR MEHT	RTZL LEN	RCLL LEN Spacing Color INTST	REDL LEN Spacing Color INTST	RENL Color WBAR	STWL LEN Color
1	2	3	4	5	6	7	8	9
01	PALS (CAT I) 900M LIH	Green Green	PAPI 3.0°/LEFT 413M 66FT	900M	3000M 30M Coded color (White/Red) LIH	3000M 60M Coded color (White/Yellow) LIH	Red	Nil (*2)
19	SALS (*1) 420M LIH	Green -	PAPI 3.0°/LEFT 457M 74FT	Nil	3000M 30M Coded color (White/Red) LIH	3000M 60M Coded color (White/Yellow) LIH	Red	Nil (*2)
Remarks								
10								
SALS with APCH LGT beacon(600m and 900m FM RWY THR)(*1) Overrun area edge LGT(LEN:60m Color:Red)(*2) CGL for RWY 19								

RJFO AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: *332833N/1314353E*, White/Green EV4.3sec, HO Operating in night, IMC, and when requested
2	LDI location and LGT Anemometer location and LGT	LDI:Nil Anemometer: RWY01: 355m from RWY 01 THR, LGTD RWY19: 300m from RWY 19 THR, LGTD
3	TWY edge and center line lighting	TWY edge and center line lights installed, see AD2.9
4	Secondary power supply / switch-over time	Within 1 sec : REDL, RENL, RTHL, WBAR, RCLL, Overrun area edge LGT Within 15 sec : Other LGT
5	Remarks	WDI LGT

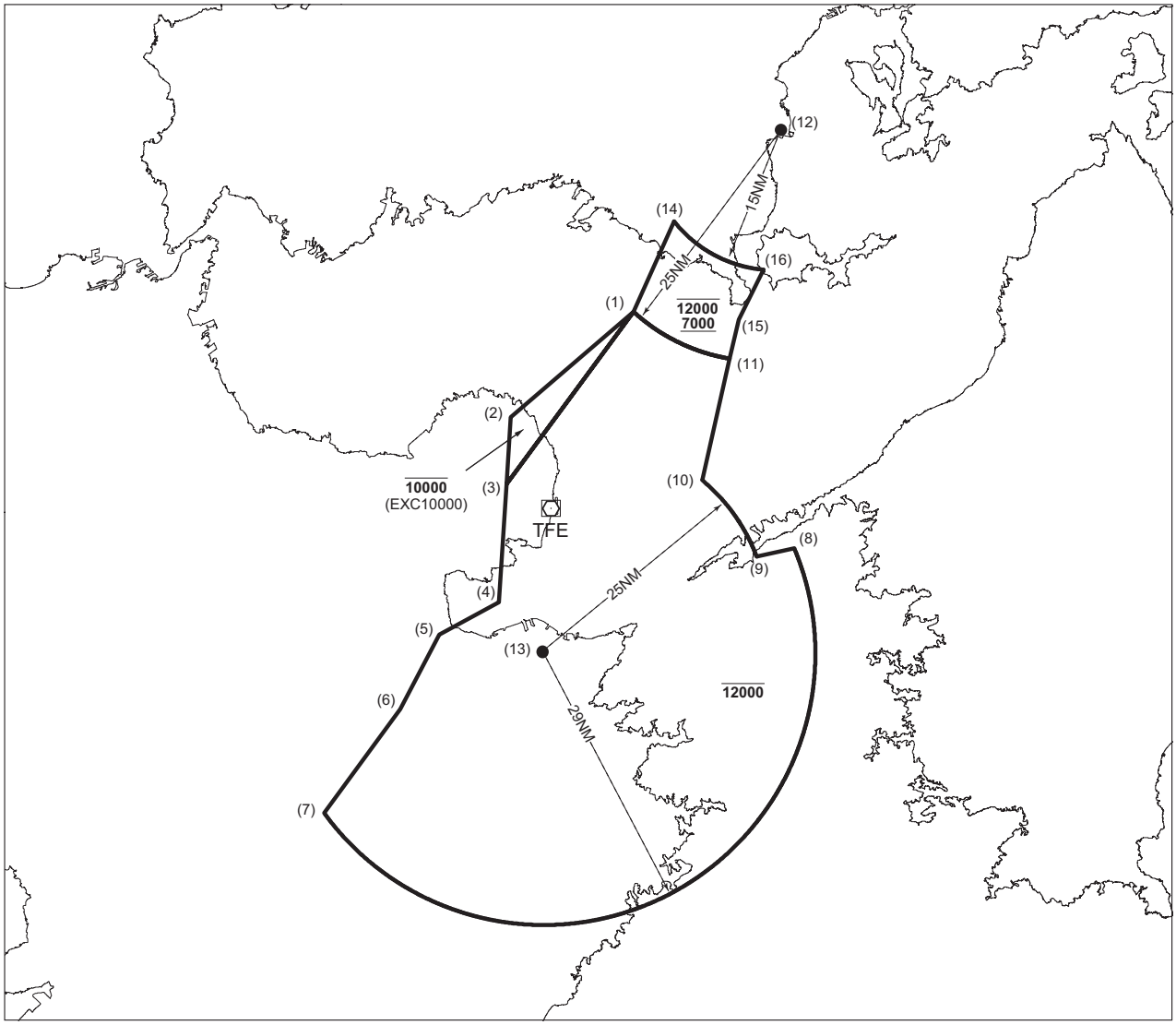
RJFO AD 2.16 HELICOPTER LANDING AREA

Nil

RJFO AD 2.17 ATS AIRSPACE

Designation and lateral limits		Vertical limits (ft)	Airspace classification	ATS unit call sign Language	Remarks
1		2	3	4	6
OITA CTR	Area within a radius of 5nm of OITA ARP	3000 or below	D	OITA TOWER	
OITA ACA	SEE RJFO ATTACHED CHART				

大分進入管制区
Oita Approach Control Area



Point list

(1) *334923N1315428E*
(2) *333820N1313835E*
(3) *333112N1313754E*
(4) *331835N1313643E*
(5) *331513N1312903E*
(6) *330719N1312355E*
(7) *325619N1311408E*
(8) *332346N1321425E*
(9) *332258N1320939E*
(10) *333116N1320253E*
(11) *334410N1320642E*
(12) *340827N1321357E*
(13) *331313N1314212E*
(14) *335858N1315956E*
(15) *334822N1320757E*
(16) *335336N1321117E*

RJFO AD 2.18 ATS COMMUNICATION FACILITIES

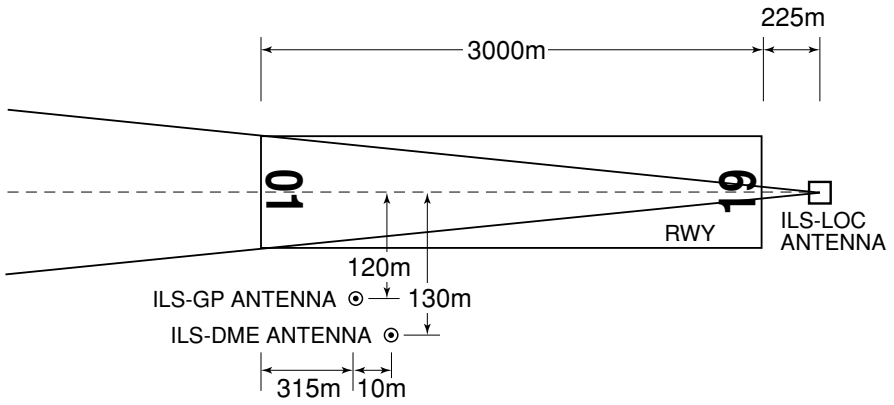
Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
APP	Oita Approach	120.6MHz(1) 127.7MHz 119.05MHz 261.2MHz 121.5MHz(E) 243.0MHz(E)	2230 - 1330	(1)Primary
ASR	Oita Radar	119.05MHz 120.6MHz 127.7MHz 261.2MHz 121.5MHz(E) 243.0MHz(E)	2230 - 1330	
DEP	Oita Departure	127.7MHz 120.6MHz 119.05MHz 261.2MHz 121.5MHz(E) 243.0MHz(E)	2230 - 1330	
TWR	Oita Tower	118.8MHz(1) 126.2MHz 261.2MHz 121.5MHz(E) 243.0MHz(E)	2230 - 1330	
GND	Oita Ground	121.6MHz	2230 - 1330	
ATIS	Oita Airport	127.8MHz	2230 - 1330	

RJFO AD 2.19 RADIO NAVIGATION AND LANDING AIDS

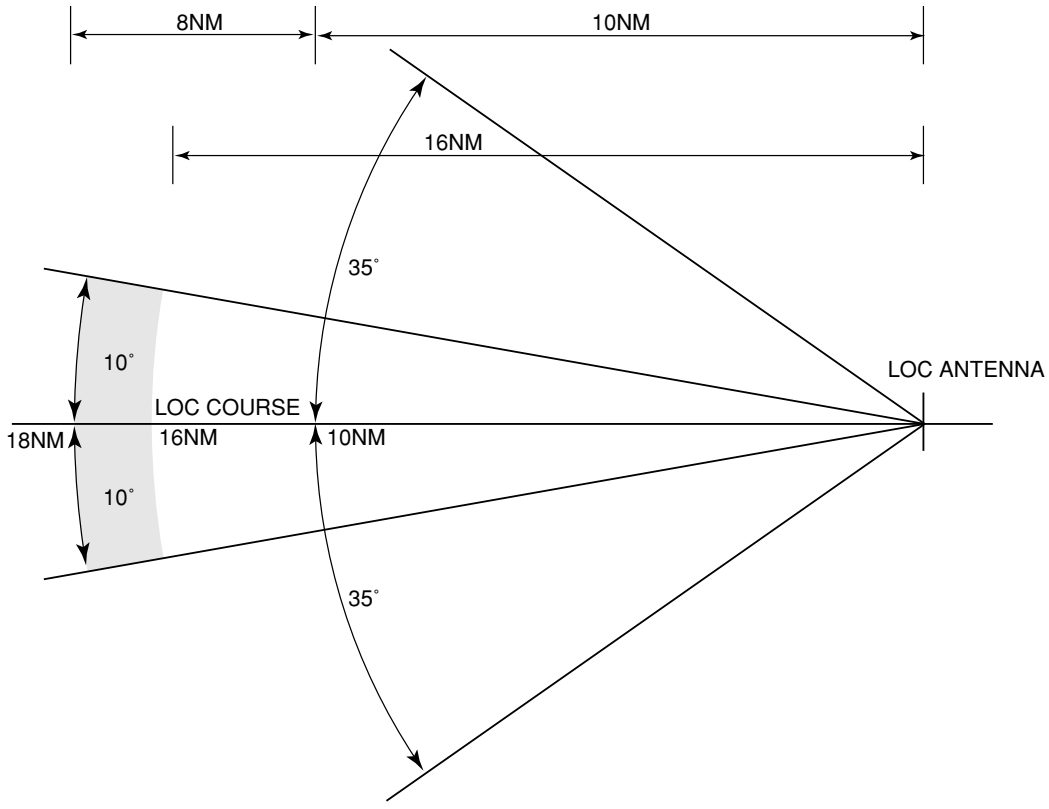
Type of aid (VOR declination)	ID	Frequency	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	*5*	6	7
ILS-LOC 01	ITF	111.5MHz	2230 - 1330	*332942.19N/ 1314414.15E*		LOC:225m(738ft) away FM RWY19 THR, BRG(MAG)007°. Unusable beyond 16nm.
ILS-GP 01	-	332.9MHz	2230 - 1330	*332807.70N/ 1314417.95E*		GP:315m (1034ft) inside FM RWY 01 THR,120m(394ft) E of RCL. HGT of ILS Ref datum16.5m (54ft) GP angle 3.0°.
ILS-DME 01	ITF	1013MHz (CH-52X)	2230 - 1330	*332808.01N/ 1314418.31E*	37ft	DME: 325m(1066ft) inside FM RWY 01 THR, 130m(427ft) E of RCL.
VOR (7°W/2016)	TFE	117.7MHz	H24	*332922.97N/ 1314343.52E*		VOR Unusable: 210°-220° beyond 35NM below 8,000FT. 240°-260° beyond 35NM below 8,000FT. 270°-330° beyond 30NM below 6,000FT.
DME	TFE	1211MHz (CH-124X)	H24	*332922.97N/ 1314343.52E*	100ft	DME Unusable: 260°-270° beyond 35NM below 8,000FT. 270°-290° beyond 15NM below 6,000FT. 290°-330° beyond 30NM below 6,000FT. 330°-340° beyond 30NM below 5,000FT.
MSAS		1575.42MHz	H24			Transmitting antennas are satellite based.

RJFO / OITA ILS

ILS



REMARKS : 1. LOC beam BRG(MAG) 007°
2. HGT of ILS REF datum 16.5m(54ft)
3. GP angle 3.0°
4. ELEV of ILS-DME 11.2m(37ft)



LOC UNUSABLE : BEYOND 16NM.

RJFO AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Airport regulations

On use of this airport by transient ACFT, the operator is required to obtain the prior permission of the airport administrator in order to adjust of parking area, except scheduled flight and ACFT in an emergency.

2. Taxiing to and from stands

Nil

3. Parking area for small aircraft(General aviation)

Nil

4. Parking area for helicopters

Nil

5. Apron - taxiing during winter conditions

Nil

6. Taxiing - limitations

Nil

7. School and training flights - technical test flights - use of runways

Nil

8. Helicopter traffic - limitation

Nil

9. Removal of disabled aircraft from runways

Nil

RJFO AD 2.21 NOISE ABATEMENT PROCEDURES

Nil

RJFO AD 2.22 FLIGHT PROCEDURES

1. TAKE OFF MINIMA

	RWY	ACFT CAT	REDL & RCLL		REDL or RCLL or RCL marking		NIL (DAYTIME ONLY)	
			RVR	VIS	RVR	VIS	RVR	VIS
Multi-Engine ACFT with TKOF ALTN AP Filed	01	A,B,C,D	400	400	400	400	-	500
	19	A,B,C,D	-	400	-	400	-	500
OTHER	01	A,B,C,D	AVBL LDG MINIMA					
	19	A,B,C,D						

2. Lost Communication Procedures for Arrival Aircraft under radar navigational guidance

If radio Communications with Oita Approach/Radar are lost for 30 seconds, squawk Mode A/3 Code 7600 and;

I 1. Contact Oita Tower.
2. If unable, proceed in accordance with Visual Flight Rules.
3. If unable, proceed to Musashi VOR/DME at last assigned altitude or 3500 feet whichever is higher and execute Instrument Approach.

II Procedures other than above will be issued when situation required.

3. Trajectorized Airport Traffic Data Processing System (TAPS)

Aircraft flying in Oita approach control area under its control will be instructed to reply with discrete code on Mode A/3 and Mode C.

If an aircraft has no capability of replying with discrete code, the pilot shall report ATC if so instructed.

大分アプローチの指示のもとに、当該進入管制区を飛行する航空機は、モード A/3 の二次レーダー個別コード及びモード C による応答を指示される。

二次レーダー個別コードを搭載していない航空機が当該コードによる応答を指示された場合は、管制機関に対しその旨通報すること。

RJFO AD 2.23 ADDITIONAL INFORMATION

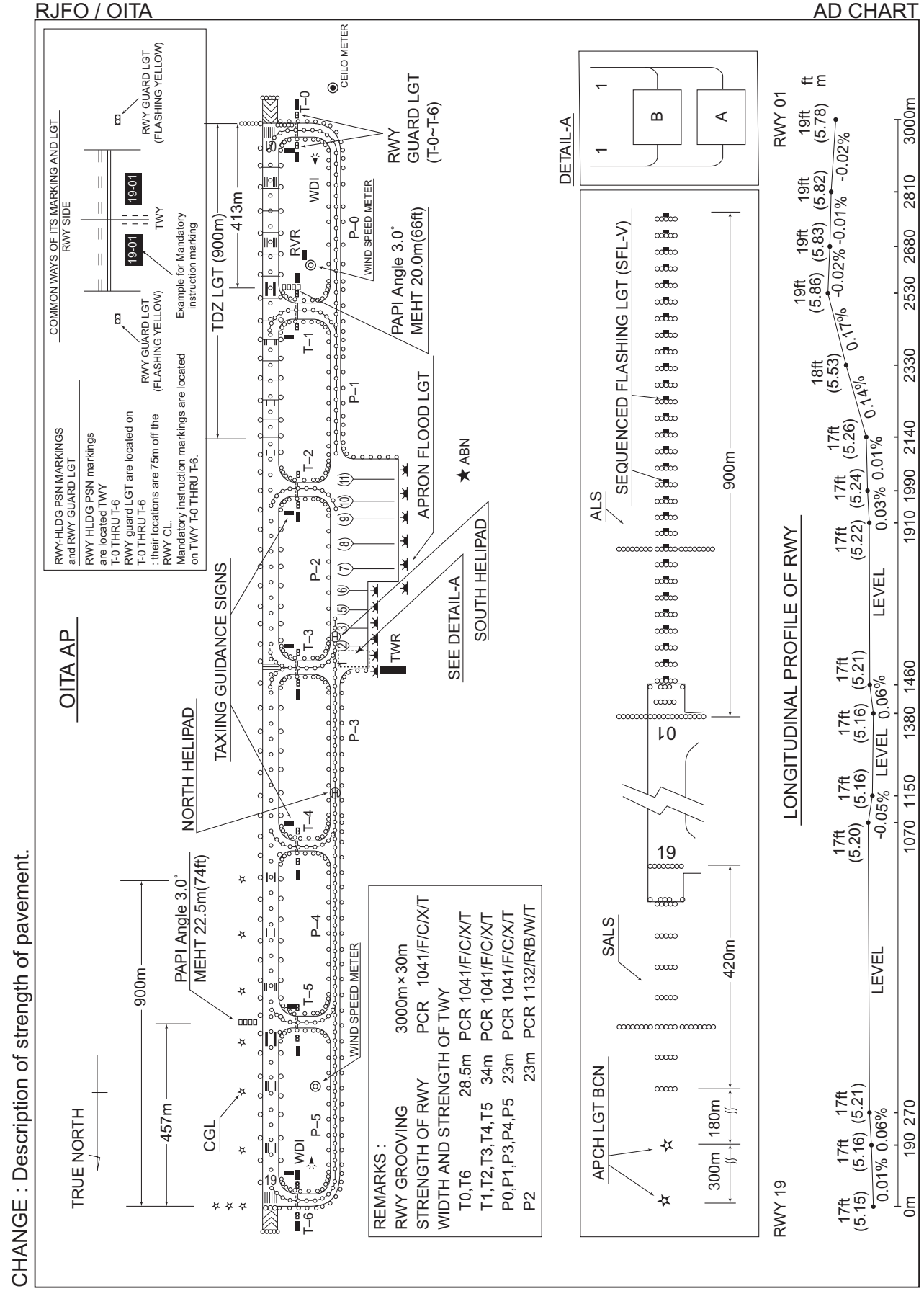
Nil

RJFO AD 2.24 CHARTS RELATED TO AN AERODROME

Aerodrome Chart
Aerodrome Obstacle Chart-ICAO type A (RWY01/19)
Aerodrome Obstacle Chart-ICAO type B
Standard Departure Chart-Instrument (MUSASHI)
Standard Departure Chart-Instrument (EBOSHI-RNAV)
Standard Departure Chart-Instrument (TOYO-RNAV)
Standard Departure Chart-Instrument (FUSHA-RNAV)
Standard Departure Chart-Instrument (TRANSITION-RNAV)
Standard Arrival Chart-Instrument (JEWEL)
Standard Arrival Chart-Instrument (KAGEX, BAIEN, NOLEL, TANSO, OOITA-RNAV)
Instrument Approach Chart (ILS Z RWY01)
Instrument Approach Chart (ILS Y or LOC RWY01)
Instrument Approach Chart (ILS X RWY01)
Instrument Approach Chart (VOR RWY01)
Instrument Approach Chart (VOR A)
Instrument Approach Chart (RNP Z RWY19)
Instrument Approach Chart (RNP RWY01(AR))
Instrument Approach Chart (RNP Y RWY19(AR))
Other Chart (Visual REP)
Other Chart (MVA CHART)

RJFO / OITA

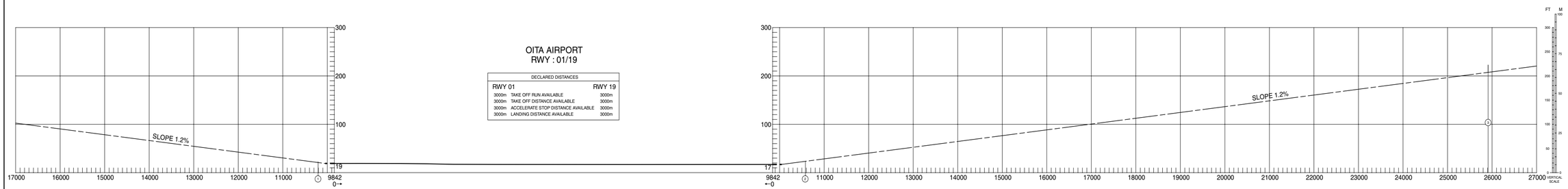
AD CHART

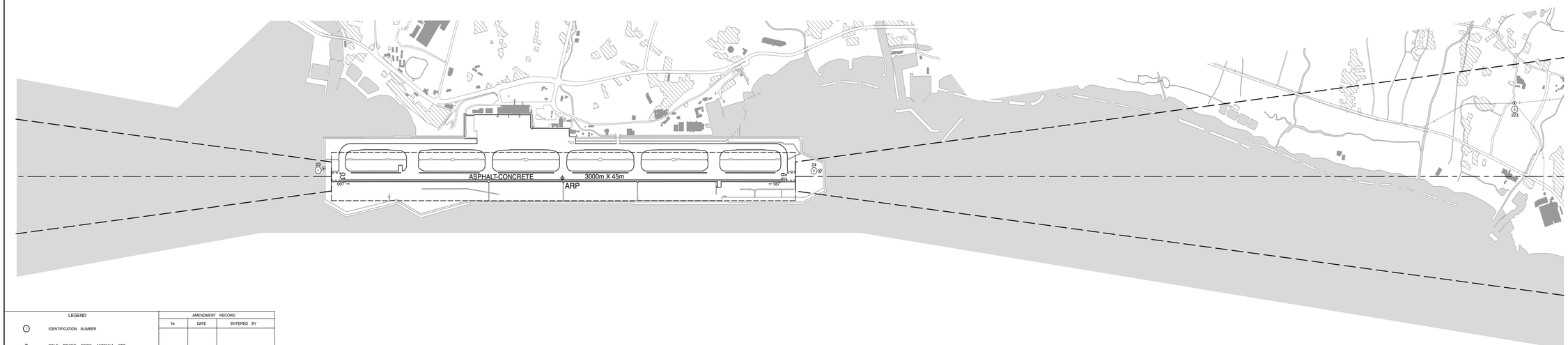


AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

MAGNETIC VARIATION 7°17' W-APR 2016





LEGEND

- ① IDENTIFICATION NUMBER
- POLE, TOWER, SPIRE, ANTENNA, ETC
- TREE
- LEVEE
- RAILROAD
- RIVER
- TRANSMISSION LINE OR OVERHEAD CABLE
- TRIANGULATION POINT
- AERONAUTICAL GROUND LIGHT

AMENDMENT RECORD

Nr	DATE	ENTERED BY

HORIZONTAL SCALE

FEET
1000 500 0 1000 2000 3000 4000 5000 6000 7000 8000ft

300 0 500 1000 1500 2000 2500m
METRES

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO
TYPE B

AERODROME ELEVATION 17ft ARP

131° 40'E 131° 41'E 131° 42'E 131° 43'E 131° 44'E 131° 45'E 131° 46'E 131° 47'E 131° 48'E

33° 33'N 33° 32'N 33° 31'N 33° 30'N 33° 29'N 33° 28'N 33° 27'N 33° 26'N 33° 25'N 33° 24'N

VAR 8° W JAN 2024
ANNUAL CHANGE 6'W

TAKE-OFF FLIGHT PATH SLOPE 1:20

APPROACH SURFACE SLOPE 1:50

NATIONAL ROUTE 213

MUSASHI BYPASS

MUSASHI RIVER

MUSASHI HARBOR

AKI RIVER

OITA AIRPORT ROAD

KUNISAKI CITY

IYO NADA

HORIZONTAL SURFACE

TRANSITIONAL SURFACE SLOPE 1:7

APPROACH SURFACE SLOPE 1:50

TAKE-OFF FLIGHT PATH SLOPE 1:20

319 590 576 359 418 424 425 349 483 310 299 233 380 669 383 293 666 751 401 854 473 264 231 350 395 480 870 277 475 676 286 452 441 487 416 418 271 263 490 238 260 444 396 217 469 383 336 368 487 376 334 295 329 362 223 417 266 369 518 295 532 783 357 810 721 24 33 38 180 37 729 40 23

HORIZONTAL SCALE

FEET

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 ft

500 0 500 1000 1500 2000 2500 3000 m

METRE

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、重要物流道路)

LEGEND

- AERODROME REFERENCE POINT *33° 28'46"N 131° 44'14"E*
- POLE, TOWER, SPIRE, ANTENNA, ETC
- AERONAUTICAL GROUND LIGHT
- OBSTRUCTION LIGHT
- BUILDING OR LARGE STRUCTURE
- RAILROAD
- TRIANGULATION POINT
- TREE
- RIVER
- LAKE
- CONTOURS(ft)

AMENDMENT RECORD		
Nr	DATE	ENTERED BY

CHANGE : Update.

STANDARD DEPARTURE CHART - INSTRUMENT

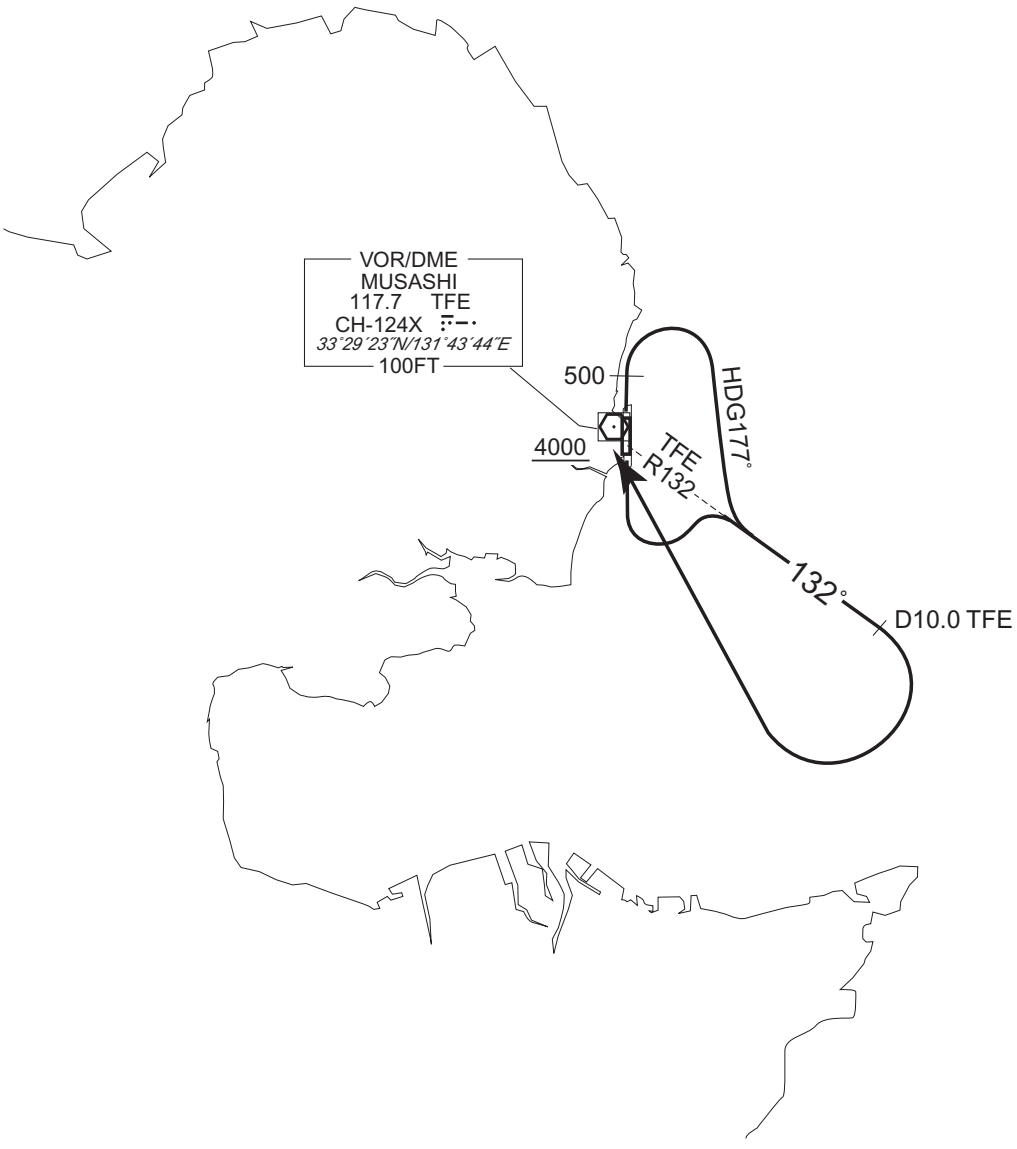
RJFO / OITA SID

MUSASHI REVERSAL TWO DEPARTURE

RWY01 : Climb RWY HDG to 500FT, turn right HDG177˚ to intercept and proceed via TFE R132 to TFE 10.0DME,...

RWY19 : Turn left, climb via TFE R132 to TFE 10.0DME,...
...turn right, direct to TFE VOR/DME.
Cross TFE VOR/DME at or above 4000FT.

Note RWY01 : 5.0% climb gradient required up to 500FT.
OBST ALT 321FT located at 2.5NM 352˚ FM end of RWY01.



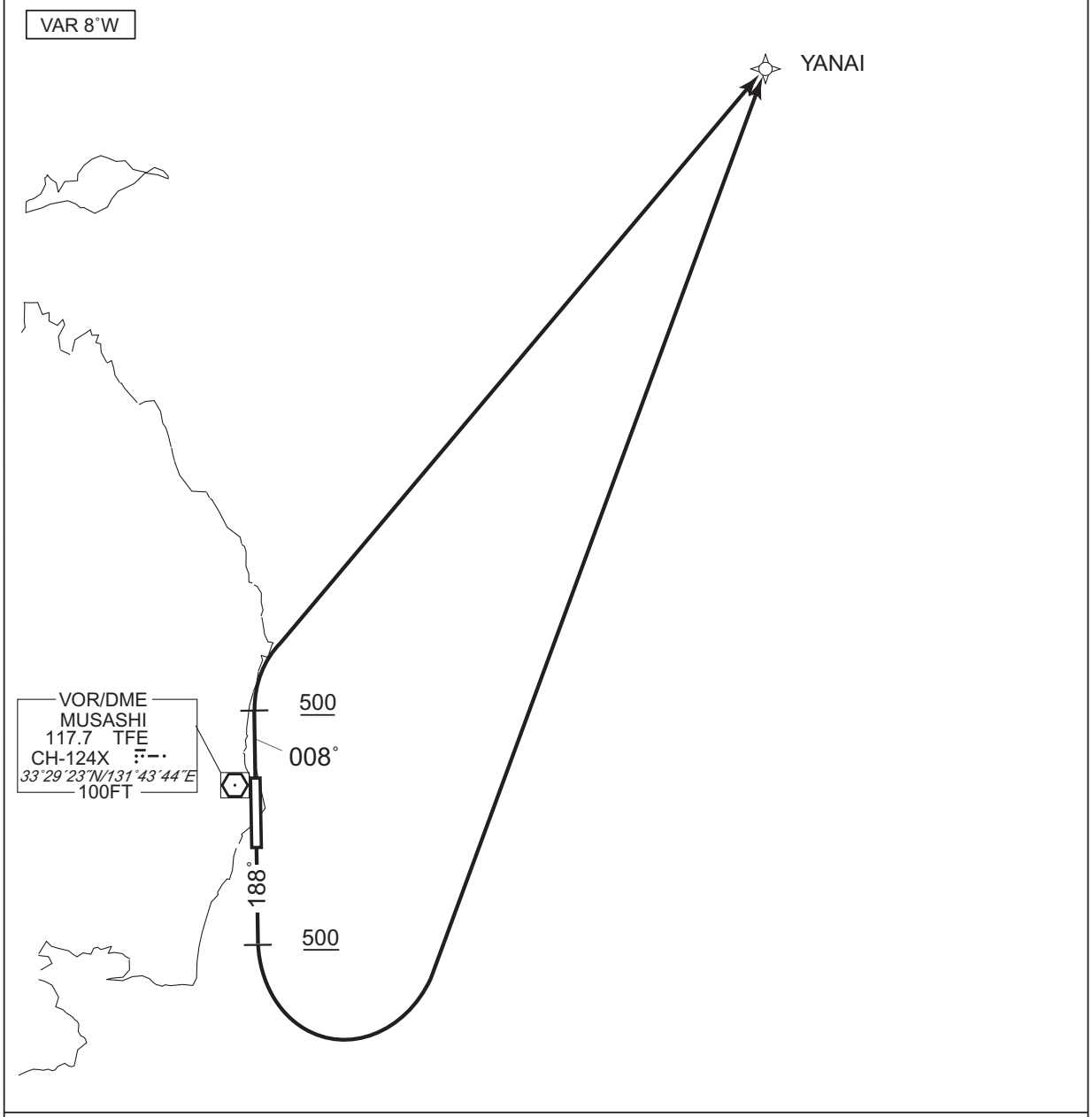
CHANGE : OBST.

STANDARD DEPARTURE CHART - INSTRUMENT

RJFO / OITA

RNAV SID

EBOSHI THREE DEPARTURE		RNAV1
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	–
	DME GAP	RWY01 : DER ～ 19NM to YANAI RWY19 : DER ～ 26NM to YANAI
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1



RWY01 : Climb on HDG008˚ at or above 500FT, turn right direct to YANAI.

RWY19 : Climb on HDG188˚ at or above 500FT, turn left direct to YANAI.

Note RWY01 : 5.0% climb gradient required up to 500FT.
OBST ALT 321FT located at 2.5NM 352˚ FM end of RWY01.

CHANGE : PROC renamed. VAR. PROC course. OBST.

STANDARD DEPARTURE CHART - INSTRUMENT

RJFO / OITA RNAV SID

EBOSHI THREE DEPARTURE

RWY01

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	—	—	008 (000.4)	-8.0	—	—	+500	—	—	RNAV1
002	DF	YANAI	—	—	-8.0	—	R	—	—	—	RNAV1

RWY19

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	—	—	188 (180.4)	-8.0	—	—	+500	—	—	RNAV1
002	DF	YANAI	—	—	-8.0	—	L	—	—	—	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates
YANAI	*334622.9N / 1315917.1E*

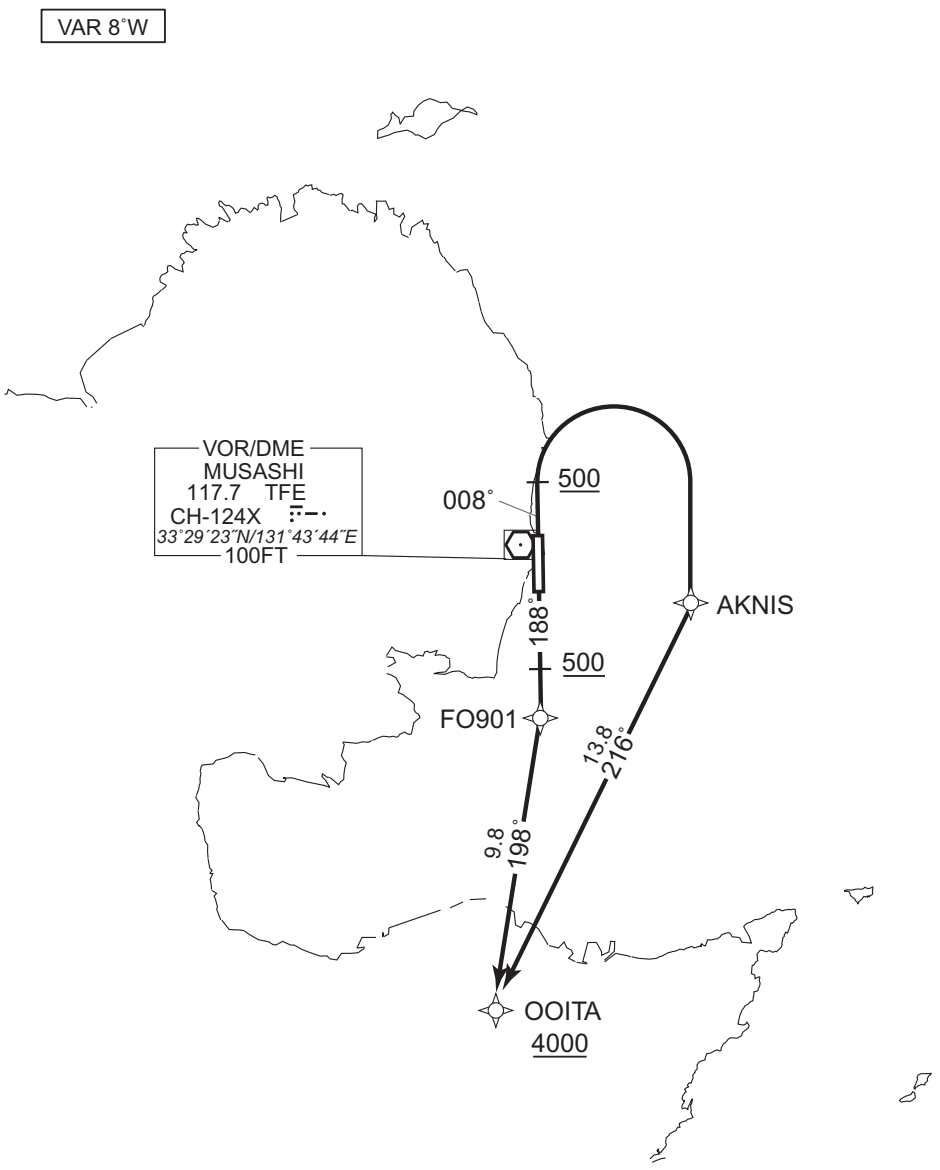
CHANGE : PROC renamed. PROC course. Waypoint Coordinates added.

STANDARD DEPARTURE CHART- INSTRUMENT

RJFO / OITA

RNAV SID

TOYO FOUR DEPARTURE		RNAV1
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	–
	DME GAP	RWY01 : DER ～ 9NM to AKNIS RWY19 : DER ～ 3NM to FO901
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1



RWY01 : Climb on HDG008˚ at or above 500FT, turn right direct to AKNIS,...

RWY19 : Climb on HDG188˚ at or above 500FT, direct to FO901,...
...to OOITA at or above 4000FT.

Note RWY01 : 5.0% climb gradient required up to 500FT.
OBST ALT 321FT located at 2.5NM 352˚ FM end of RWY01.

CHANGE : PROC renamed. AKNIS established. TACHI abolished. VAR. PROC course. OBST.

STANDARD DEPARTURE CHART- INSTRUMENT

RJFO / OITA RNAV SID

TOYO FOUR DEPARTURE

RWY01

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	–	–	008 (000.4)	-8.0	–	–	+500	–	–	RNAV1
002	DF	AKNIS	–	–	-8.0	–	R	–	–	–	RNAV1
003	TF	OOITA	–	216 (208.1)	-8.0	13.8	–	+4000	–	–	RNAV1

RWY19

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	–	–	188 (180.4)	-8.0	–	–	+500	–	–	RNAV1
002	DF	FO901	–	–	-8.0	–	–	–	–	–	RNAV1
003	TF	OOITA	–	198 (189.8)	-8.0	9.8	–	+4000	–	–	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates
AKNIS	*332524.3N / 1314958.2E*
FO901	*332251.1N / 1314410.5E*
OOITA	*331313.2N / 1314211.7E*

CHANGE : AKNIS established. TACHI abolished. PROC course. Waypoint Coordinates added.

STANDARD DEPARTURE CHART - INSTRUMENT

RJFO / OITA

RNAV SID

FUSHA TWO DEPARTURE

RNAV1

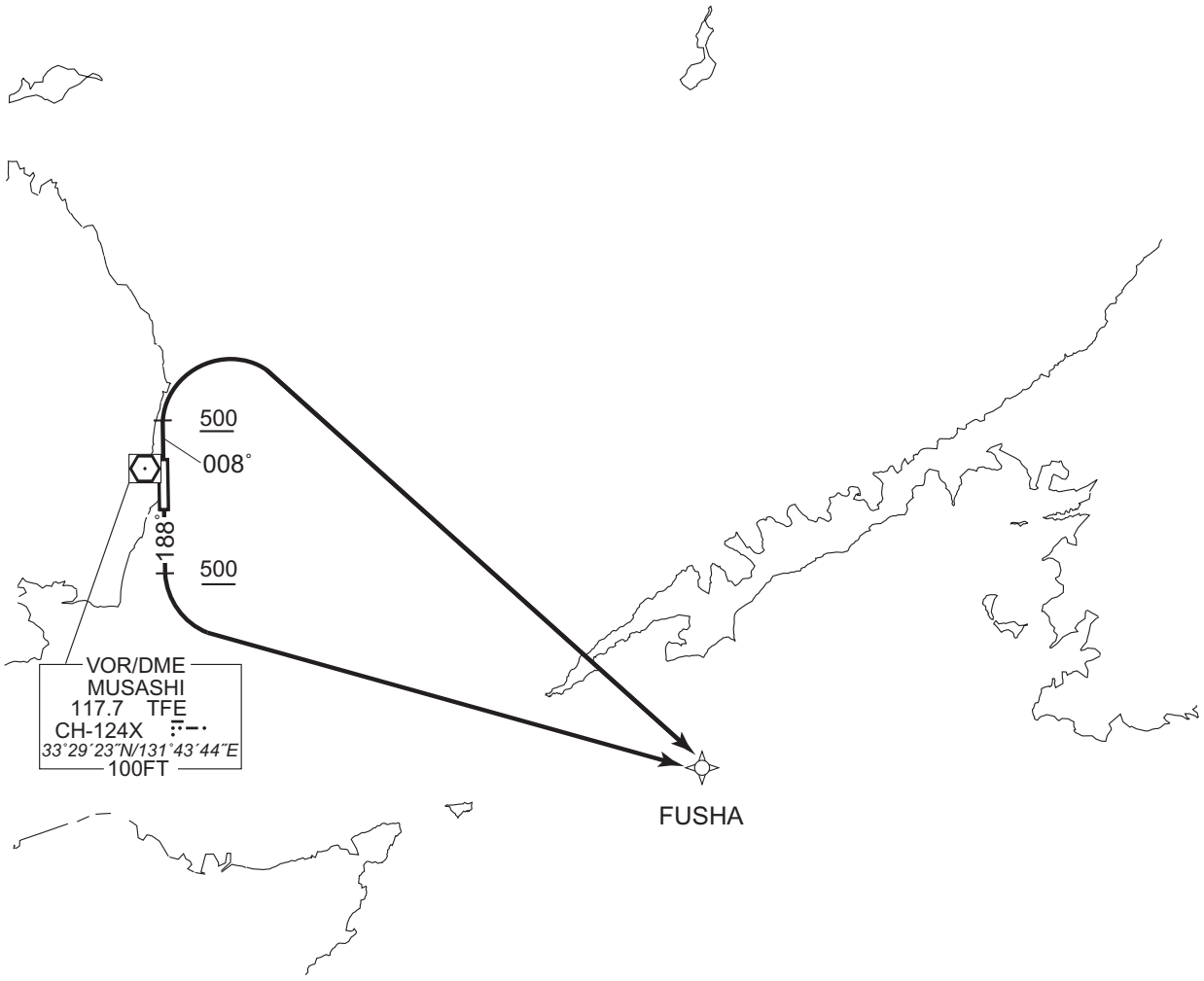
Note 1) DME/DME/IRU or GNSS required.

※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	RWY01 : MYE 25NM to FUSHA ～ 24NM to FUSHA
DME GAP	RWY01 : DER ～ 25NM to FUSHA RWY19 : DER ～ 23NM to FUSHA
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

VAR 8˚W



RWY01 : Climb on HDG008˚ at or above 500FT, turn right direct to FUSHA.

RWY19 : Climb on HDG188˚ at or above 500FT, turn left direct to FUSHA.

Note RWY01 : 5.0% climb gradient required up to 500FT.
OBST ALT 321FT located at 2.5NM 352˚ FM end of RWY01.

CHANGE : PROC renamed. VAR. PROC course. OBST.

STANDARD DEPARTURE CHART - INSTRUMENT

RJFO / OITA RNAV SID

FUSHA TWO DEPARTURE

RWY01

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	—	—	008 (000.4)	-8.0	—	—	+500	—	—	RNAV1
002	DF	FUSHA	—	—	-8.0	—	R	—	—	—	RNAV1

RWY19

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	—	—	188 (180.4)	-8.0	—	—	+500	—	—	RNAV1
002	DF	FUSHA	—	—	-8.0	—	L	—	—	—	RNAV1

Waypoint Coordinates

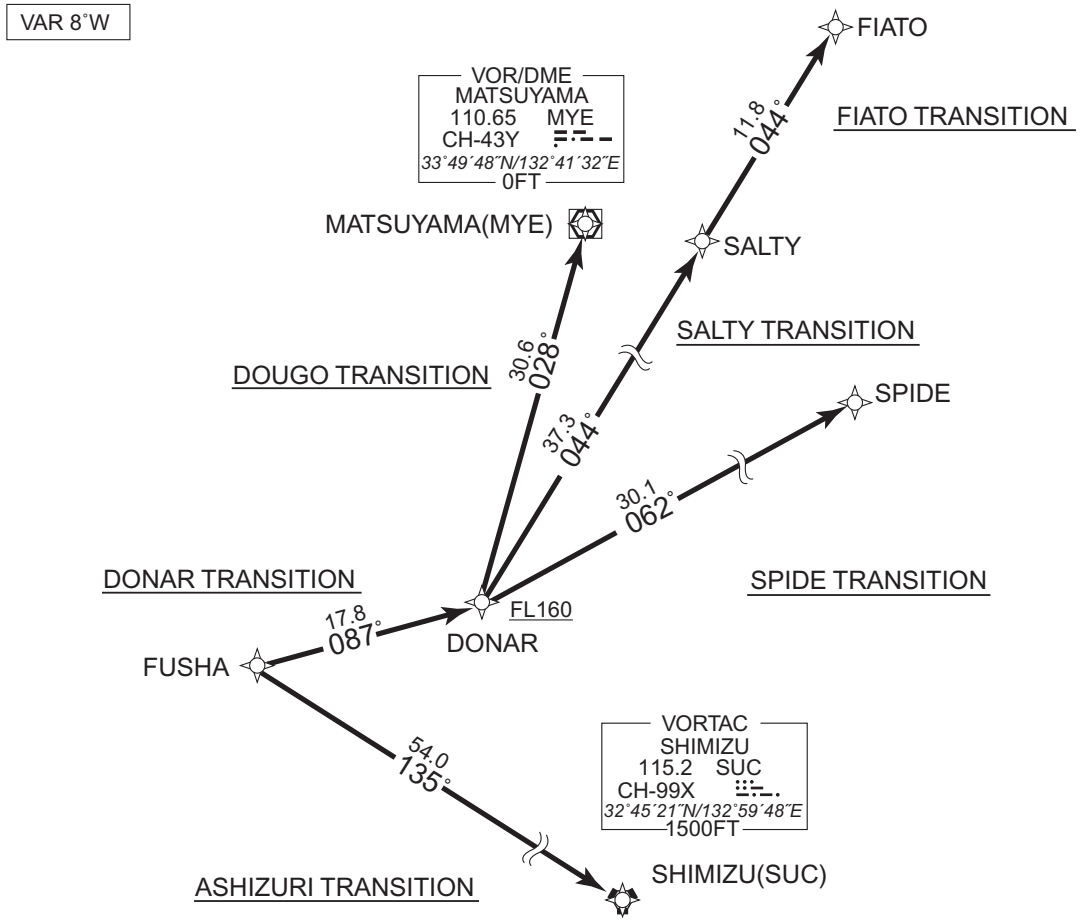
Waypoint Identifier	Coordinates
FUSHA	*331737.7N / 1320814.6E*

CHANGE : PROC renamed. PROC course. VAR. Waypoint Coordinates added.

STANDARD DEPARTURE CHART - INSTRUMENT

RJFO / OITA — RNAV TRANSITION

DONAR TRANSITION / DOUGO TRANSITION / FIATO TRANSITION SALTY TRANSITION / SPIDE TRANSITION / ASHIZURI TRANSITION		RNAV1
Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required.	Critical DME	–
	DME GAP	–
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1



DONAR TRANSITION
From FUSHA, to DONAR at or above FL160.

DOUGO TRANSITION
From FUSHA, to DONAR at or above FL160, to MYE.

FIATO TRANSITION
From FUSHA, to DONAR at or above FL160, to SALTY, to FIATO.

SALTY TRANSITION
From FUSHA, to DONAR at or above FL160, to SALTY.

SPIDE TRANSITION
From FUSHA, to DONAR at or above FL160, to SPIDE.

ASHIZURI TRANSITION
From FUSHA, to SUC.

CHANGE : VAR. PROC course.

STANDARD DEPARTURE CHART - INSTRUMENT

RJFO / OITA RNAV TRANSITION

DONAR 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	FUSHA	–	–	-8.0	–	–	–	–	–	RNAV1
002	TF	DONAR	–	087 (078.7)	-8.0	17.8	–	+FL160	–	–	RNAV1

DOUGO 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	FUSHA	–	–	-8.0	–	–	–	–	–	RNAV1
002	TF	DONAR	–	087 (078.7)	-8.0	17.8	–	+FL160	–	–	RNAV1
003	TF	MYE	–	028 (019.8)	-8.0	30.6	–	–	–	–	RNAV1

FIATO 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	FUSHA	–	–	-8.0	–	–	–	–	–	RNAV1
002	TF	DONAR	–	087 (078.7)	-8.0	17.8	–	+FL160	–	–	RNAV1
003	TF	SALTY	–	044 (036.1)	-8.0	37.3	–	–	–	–	RNAV1
004	TF	FIATO	–	044 (036.3)	-8.0	11.8	–	–	–	–	RNAV1

SALTY 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	FUSHA	–	–	-8.0	–	–	–	–	–	RNAV1
002	TF	DONAR	–	087 (078.7)	-8.0	17.8	–	+FL160	–	–	RNAV1
003	TF	SALTY	–	044 (036.1)	-8.0	37.3	–	–	–	–	RNAV1

CHANGE : PROC course. VAR.

STANDARD DEPARTURE CHART - INSTRUMENT

RJFO / OITA RNAV TRANSITION

SPIDE 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	FUSHA	–	–	-8.0	–	–	–	–	–	RNAV1
002	TF	DONAR	–	087 (078.7)	-8.0	17.8	–	+FL160	–	–	RNAV1
003	TF	SPIDE	–	062 (054.1)	-8.0	30.1	–	–	–	–	RNAV1

ASHIZURI 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	FUSHA	–	–	-8.0	–	–	–	–	–	RNAV1
002	TF	SUC	–	135 (126.5)	-8.0	54.0	–	–	–	–	RNAV1

Waypoint Coordinates

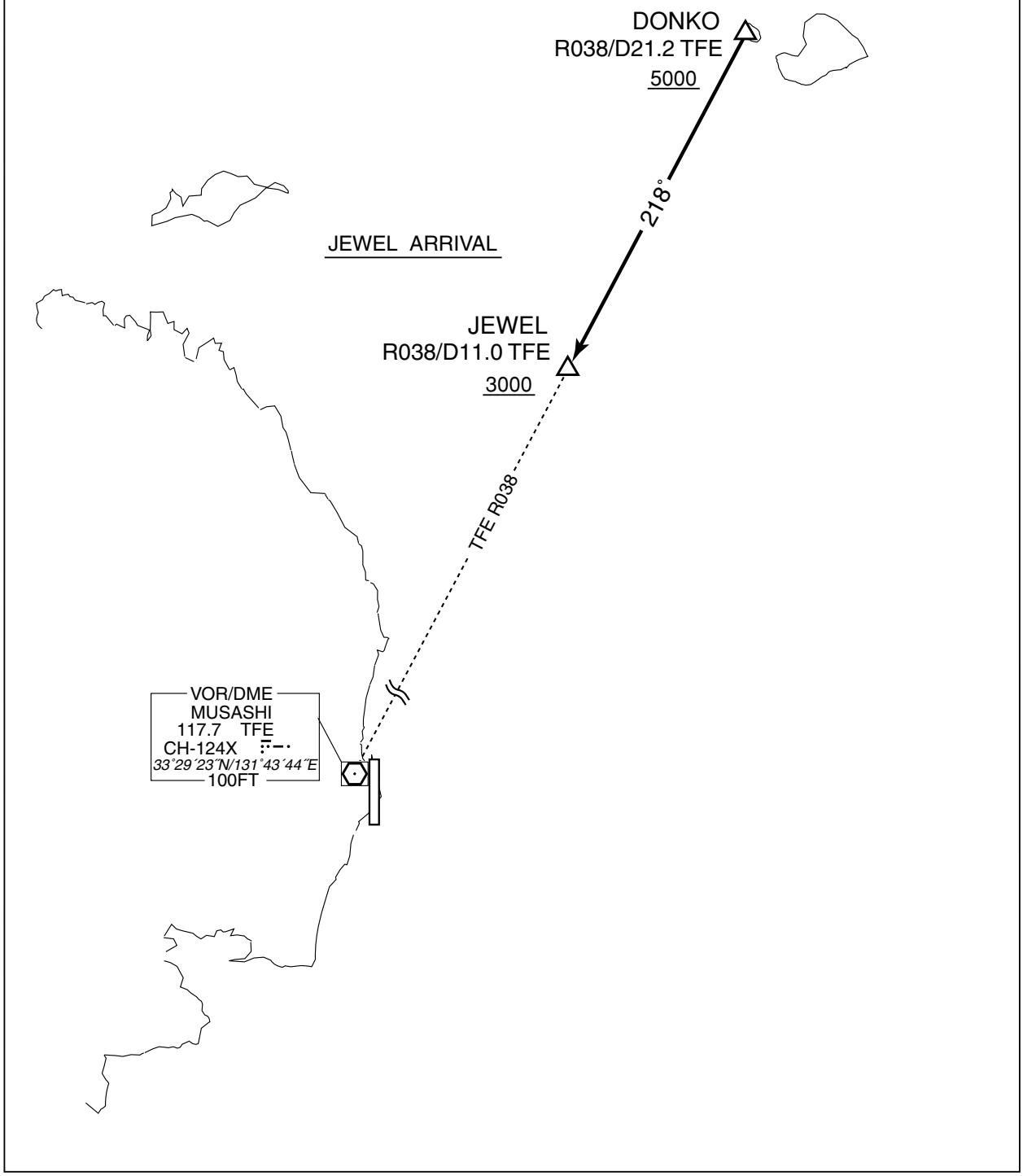
Waypoint Identifier	Coordinates
FUSHA	*331737.7N / 1320814.6E*
DONAR	*332105.1N / 1322904.7E*
MYE	*334948.4N / 1324132.0E*
SALTY	*335109.7N / 1325530.8E*
FIATO	*340037.4N / 1330354.6E*
SPIDE	*333840.2N / 1325818.0E*
SUC	*324521.5N / 1325947.9E*

CHANGE : PROC course. VAR. Waypoint Coordinates added.

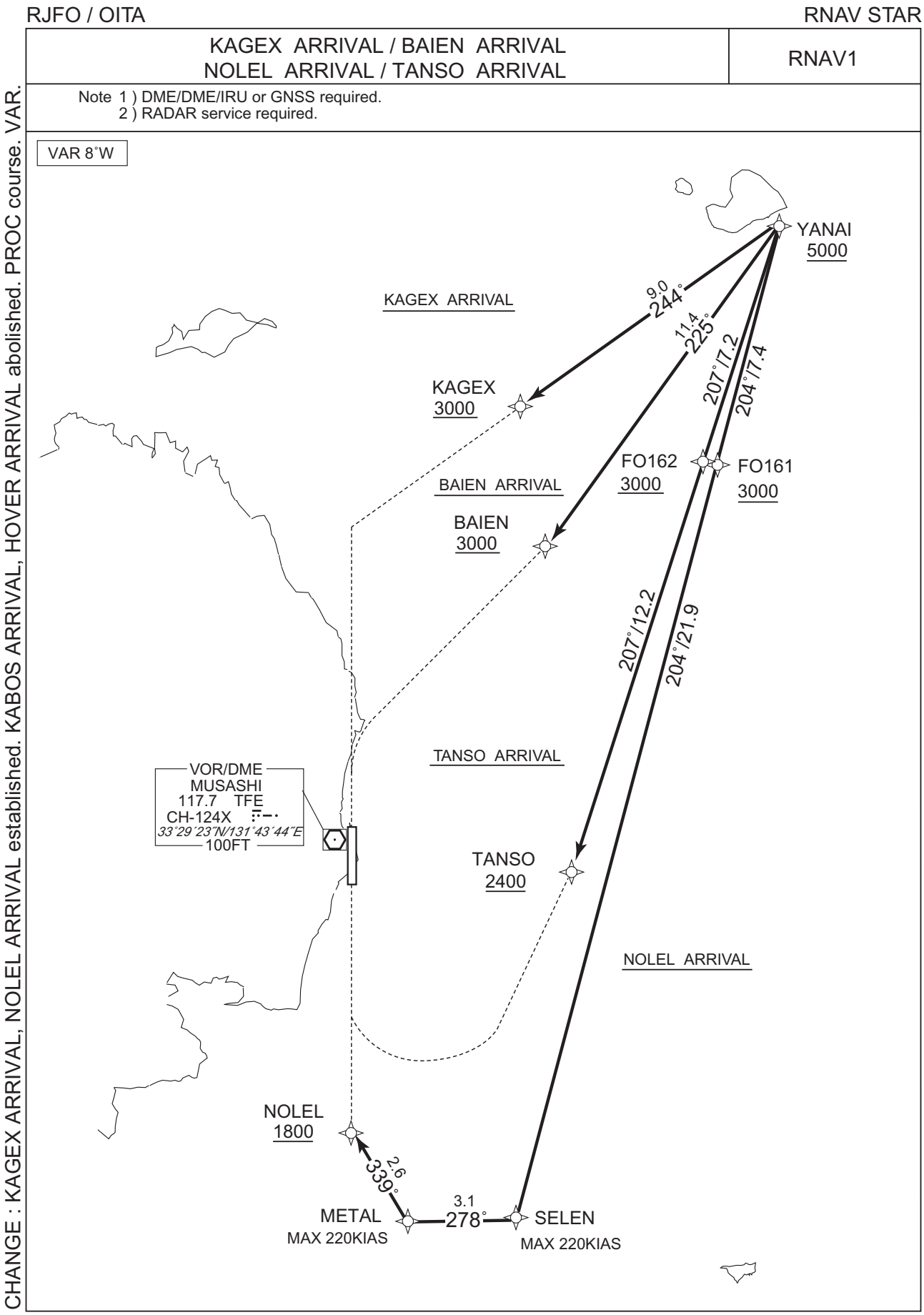
STANDARD ARRIVAL CHART- INSTRUMENT

RJFO / OITA STAR

JEWEL ARRIVAL
From over DONKO, via TFE R038 to JEWEL.
Cross DONKO at or above 5000FT, cross JEWEL at or above 3000FT.



STANDARD ARRIVAL CHART- INSTRUMENT



STANDARD ARRIVAL CHART - INSTRUMENT

RJFO / OITA RNAV STAR

CHANGE : KAGEX ARRIVAL established. PROC course. VAR.

KAGEX ARRIVAL

From YANAI at or above 5000FT, to KAGEX at or above 3000FT.

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	YANAI	–	–	-8.0	–	–	+5000	–	–	RNAV1
002	TF	KAGEX	–	244 (236.2)	-8.0	9.0	–	+3000	–	–	RNAV1

BAIEN ARRIVAL

From YANAI at or above 5000FT, to BAIEN at or above 3000FT.

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	YANAI	–	–	-8.0	–	–	+5000	–	–	RNAV1
002	TF	BAIEN	–	225 (217.4)	-8.0	11.4	–	+3000	–	–	RNAV1

TANSO ARRIVAL

From YANAI at or above 5000FT, to FO162 at or above 3000FT, to TANSO at or above 2400FT.

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	YANAI	–	–	-8.0	–	–	+5000	–	–	RNAV1
002	TF	FO162	–	207 (199.4)	-8.0	7.2	–	+3000	–	–	RNAV1
003	TF	TANSO	–	207 (199.4)	-8.0	12.2	–	+2400	–	–	RNAV1

STANDARD ARRIVAL CHART - INSTRUMENT

RJFO / OITA RNAV STAR

NOLEL ARRIVAL

From YANAI at or above 5000FT, to FO161 at or above 3000FT, to SELEN, to METAL, to NOLEL at or above 1800FT.

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	YANAI	–	–	-8.0	–	–	+5000	–	–	RNAV1
002	TF	FO161	–	204 (196.4)	-8.0	7.4	–	+3000	–	–	RNAV1
003	TF	SELEN	–	204 (196.4)	-8.0	21.9	–	–	-220	–	RNAV1
004	TF	METAL	–	278 (270.5)	-8.0	3.1	–	–	-220	–	RNAV1
005	TF	NOLEL	–	339 (330.5)	-8.0	2.6	–	+1800	–	–	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates
YANAI	*334622.9N / 1315917.1E*
KAGEX	*334121.2N / 1315016.7E*
BAIEN	*333720.4N / 1315059.8E*
FO162	*333936.2N / 1315624.8E*
TANSO	*332806.6N / 1315133.7E*
FO161	*333918.2N / 1315646.6E*
SELEN	*331818.8N / 1314923.1E*
METAL	*331820.3N / 1314541.2E*
NOLEL	*332036.2N / 1314409.4E*

CHANGE : NOLEL ARRIVAL established. Waypoint Coordinates added. .

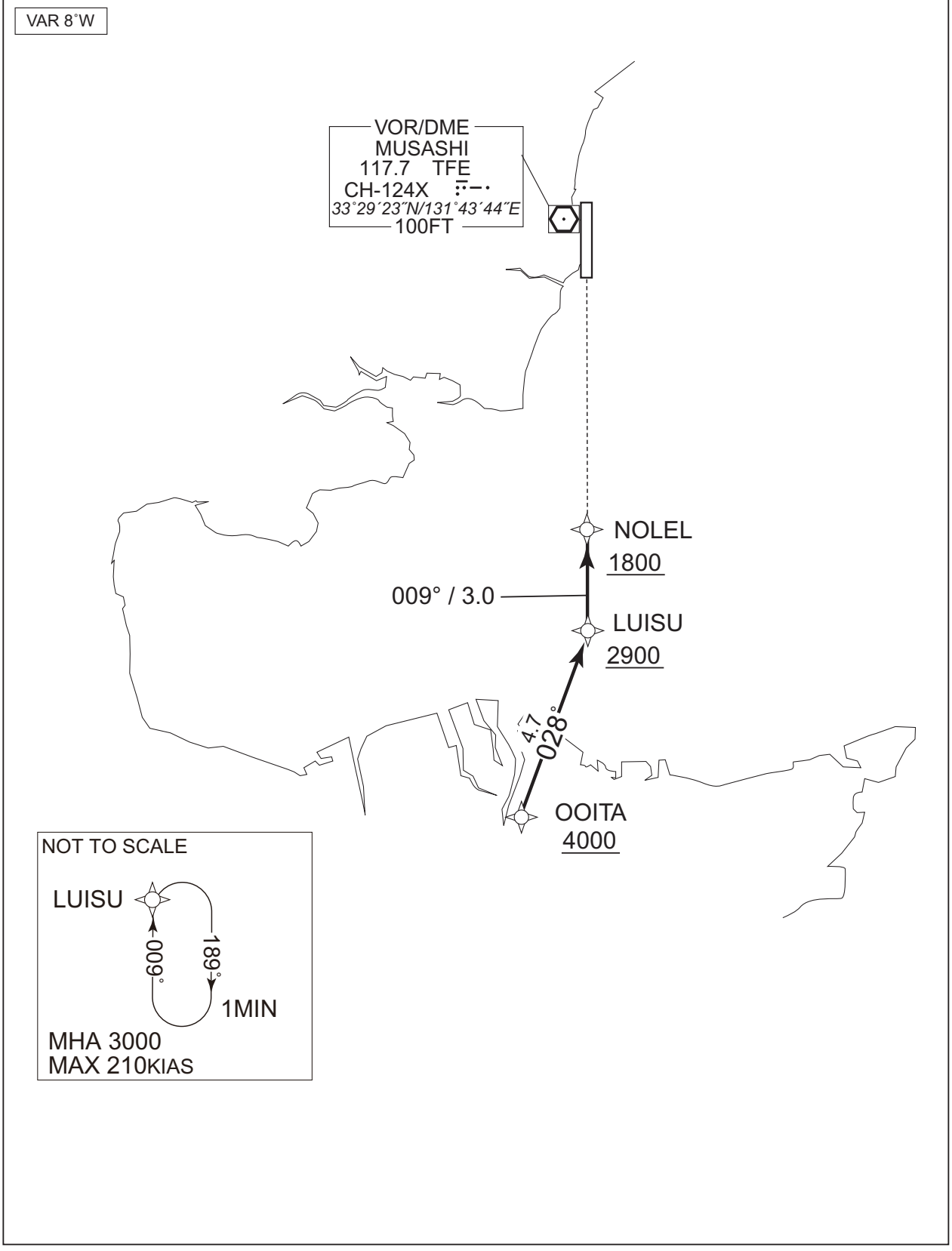
STANDARD ARRIVAL CHART - INSTRUMENT

RJFO / OITA

RNAV STAR RWY01

OOITA ARRIVAL	RNAV1

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



CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJFO / OITA RNAV STAR

OOITA ARRIVAL

From OOITA at or above 4000FT, to LUISU at or above 2900FT, to NOLEL at or above 1800FT.

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	OOITA	–	–	-8.0	–	–	+4000	–	–	RNAV1
002	TF	LUISU	–	028 (020.2)	-8.0	4.7	–	+2900	–	–	RNAV1
003	TF	NOLEL	–	009 (000.5)	-8.0	3.0	–	+1800	–	–	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	LUISU	009 (000.5)	-8.0	1.0(-14000)	R	3000	FL140	-210(-14000)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates
OOITA	*331313.2N / 1314211.7E*
LUISU	*331735.8N / 1314407.5E*
NOLEL	*332036.2N / 1314409.4E*

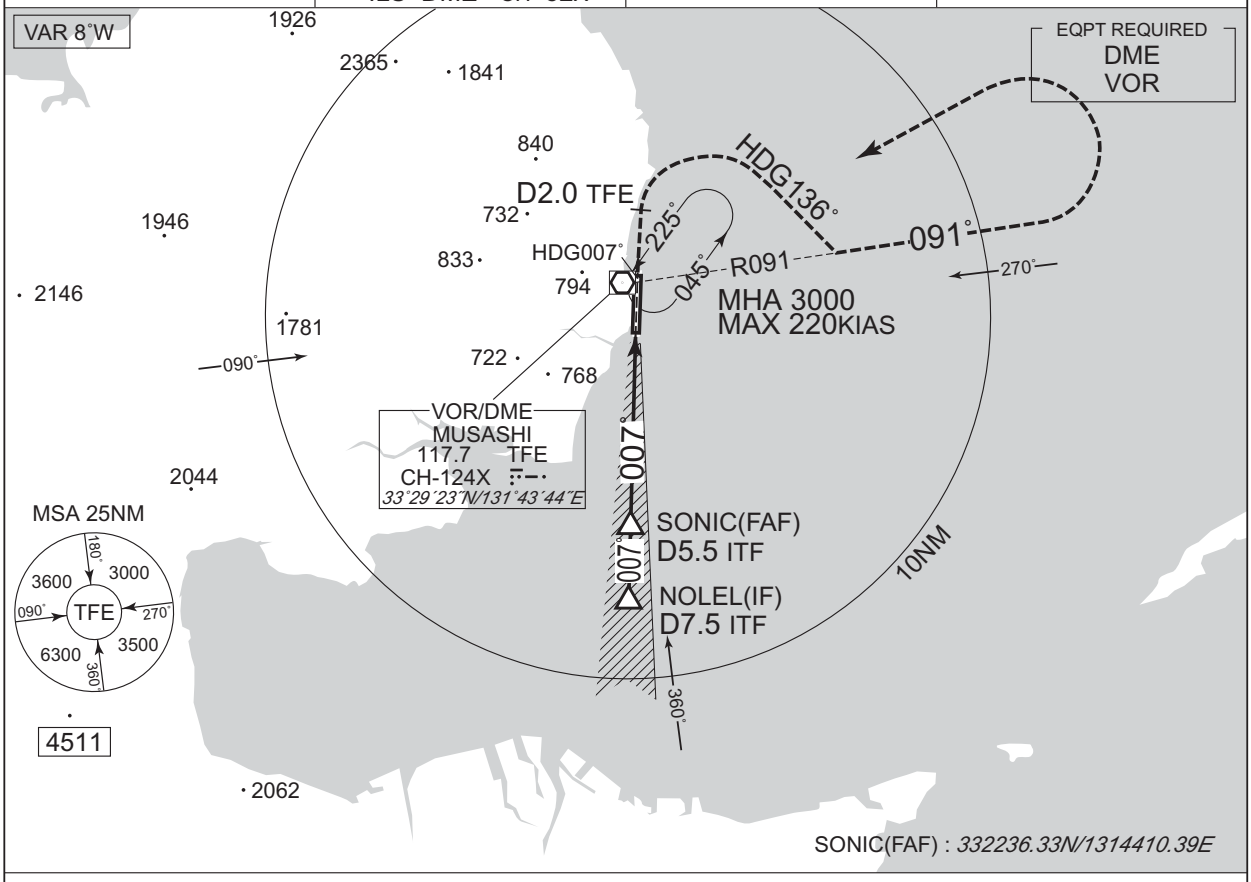
CHANGE : New PROC.

INSTRUMENT APPROACH CHART

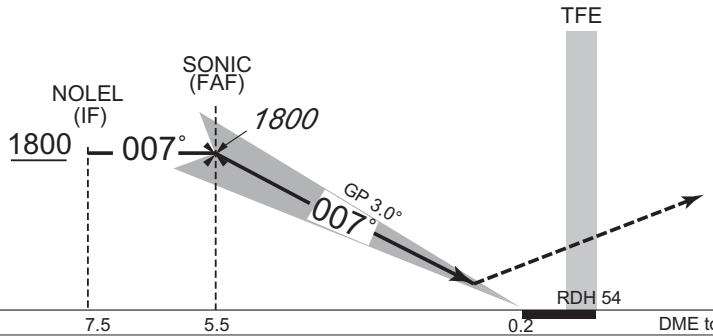
RJFO / OITA

ILS Z RWY01

OITA APP	ILS-LOC	OITA TOWER	RADAR AVBL
120.6	111.5 ITF ⠶⠤⠄ ILS–GP 332.9 ILS–DME CH–52X	118.8 – 126.2	ATIS 127.8



SONIC(FAF) : *332236.33N/1314410.39E*



MISSED APPROACH

Climb on HDG007° to TFE 2.0DME, turn right HDG136° to intercept and proceed via TFE R091 to 3000FT, turn left, direct to TFE VOR/DME and hold. Contact OITA APP.

Missed APCH climb gradient MNM 4.0%.

MINIMA	THR elev. 19		AD elev. 17	
CAT	CAT I		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	VIS
A	219 (200)	550	430 (413)	1600
B			470 (453)	
C			660 (643)	2400
D			760 (743)	3200

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

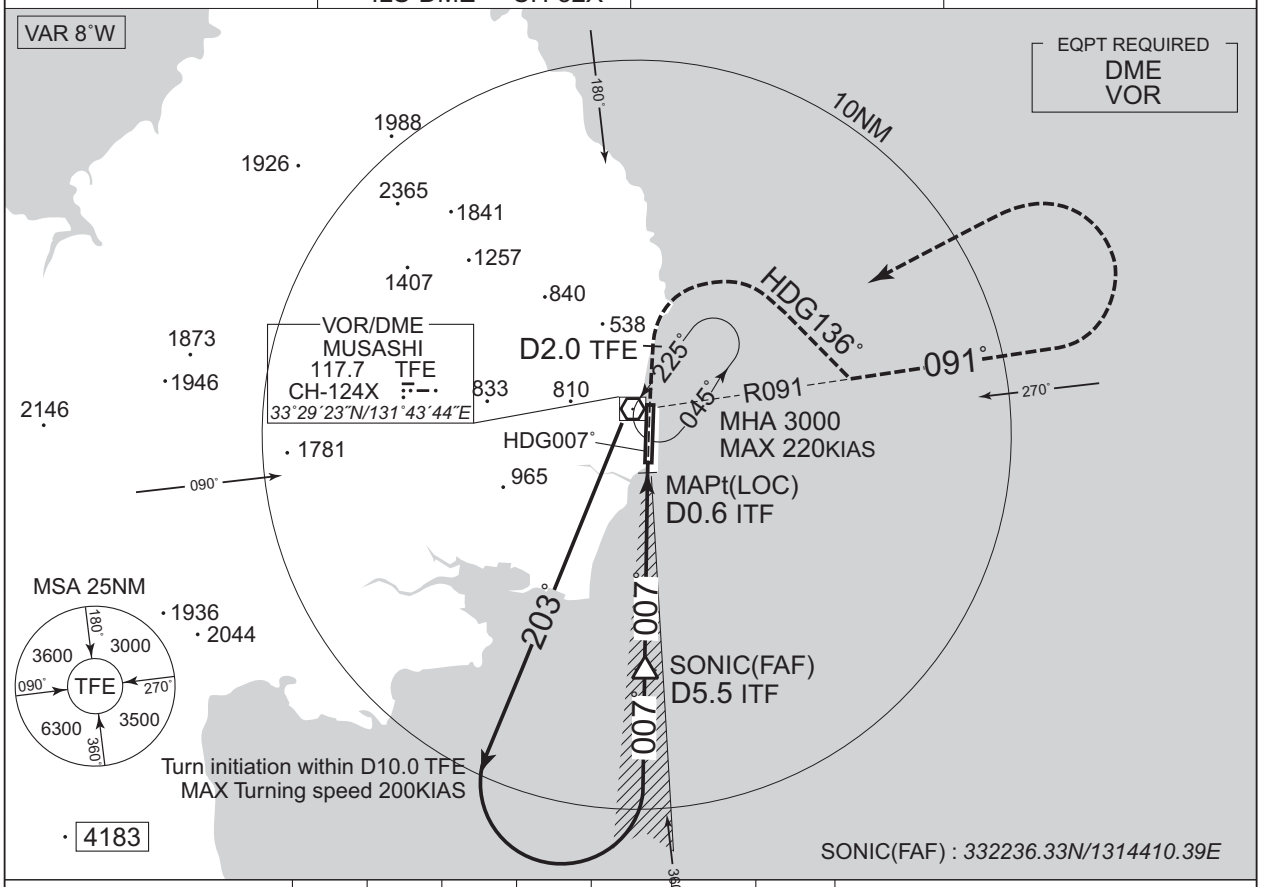
CHANGE : VAR. NOLEL established. HOVER abolished. MINIMA for CIRCLING CAT C.

INSTRUMENT APPROACH CHART

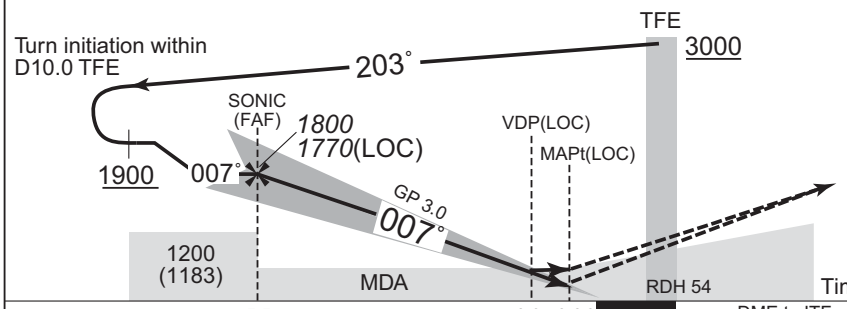
RJFO / OITA

ILS Y or LOC RWY01

OITA APP	ILS-LOC	OITA TOWER	RADAR AVBL
120.6	111.5 ITF ILS-GP 332.9 ILS-DME CH-52X	118.8 - 126.2	ATIS 127.8



NM to ITF	FAF	5	4	3	2	1	MAPt
ALT (3.0° APCH Path)	1770	1604	1286	968	649	330	–



MISSED APPROACH
Climb on HDG007° to TFE 2.0DME, turn right HDG136° to intercept and proceed via TFE R091 to 3000FT, turn left, direct to TFE VOR/DME and hold. Contact OITA APP.

Timing not authorized for defining the MAPt.

Missed APCH climb gradient MNM 4.0%.

MINIMA THR elev. 19 AD elev. 17

CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	219 (200)	550	300 (283)	800	430 (413)	1600
B					470 (453)	
C					660 (643)	2400
D				1200	760 (743)	3200

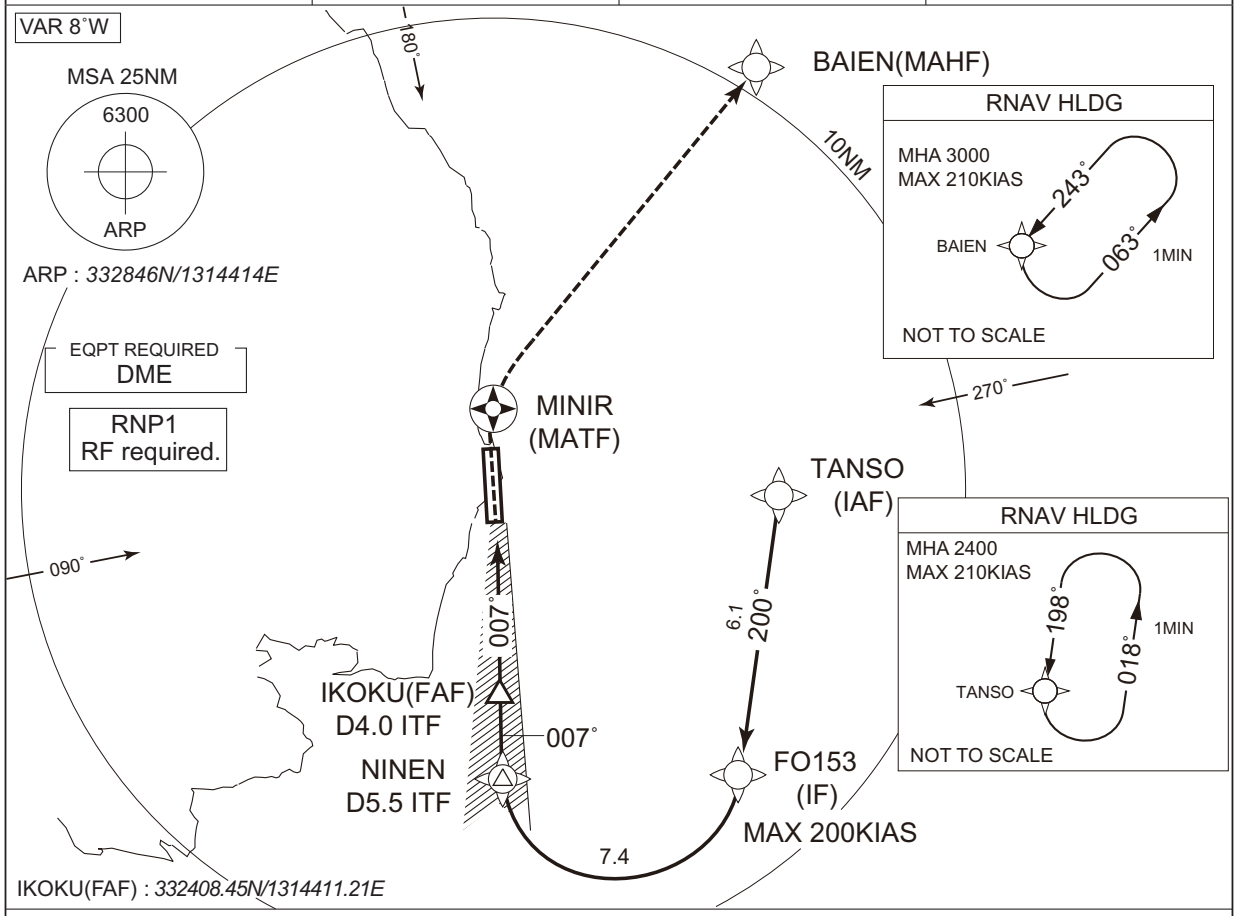
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to EAST side of RWY only.

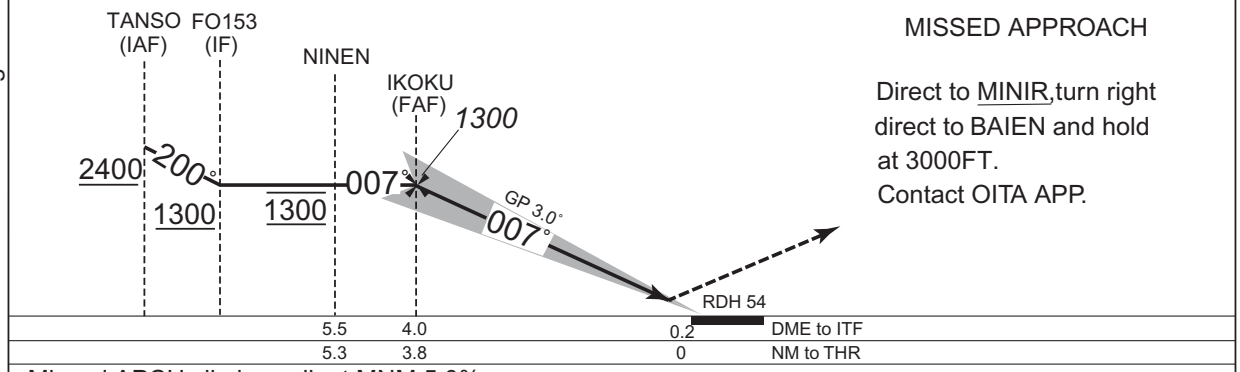
CHANGE : PROC renamed.

INSTRUMENT APPROACH CHART

RJFO / OITA — ILS X RWY01

OITA APP	ILS - LOC	OITA TOWER	RADAR AVBL
120.6	111.5 ITF ILS-GP 332.9 ILS-DME CH-52X	118.8 - 126.2	ATIS 127.8





MISSED APPROACH

Direct to MINIR,turn right
direct to BAIEN and hold
at 3000FT.
Contact OITA APP.

Missed APCH climb gradient MNM 5.0%.

MINIMA THR elev. 19 AD elev. 17

CAT	CAT I		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	VIS
A	219 (200)	550	430 (413)	1600
B			470 (453)	
C			660 (643)	2400
D			760 (743)	3200

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

CHANGE : PROC renamed. MINIR, FO153 established. RNAV HLDG established. PROC course. Missed APCH course.
DME to ITF. NM to THR. Missed APCH climb gradient MNM. MINIMA for CIRCLING CAT C.

INSTRUMENT APPROACH CHART

RJFO / OITA ILS X RWY01

CHANGE : PROC renamed. MINIR, FO153 established. HLDG pattern. Waypoint Coordinates added.

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	TANSO	-	-	-8.0	-	-	+2400	-	-	RNP1
002	TF	FO153	-	200 (191.7)	-8.0	6.1	-	+1300	-200	-	RNP1
003	RF Center: FORF3 r=2.50NM	NINEN	-	-	-8.0	7.4	R	1300	-	-	RNP1
001	DF	MINIR	Y	-	-8.0	-	-	-	-	-	RNP1
002	DF	BAIEN	-	-	-8.0	-	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	TANSO	198 (190.0)	-8.0	1.0(-14000)	L	2400	FL140	-210(-14000)	RNP1
Hold	BAIEN	243 (234.9)	-8.0	1.0(-14000)	L	3000	FL140	-210(-14000)	RNP1

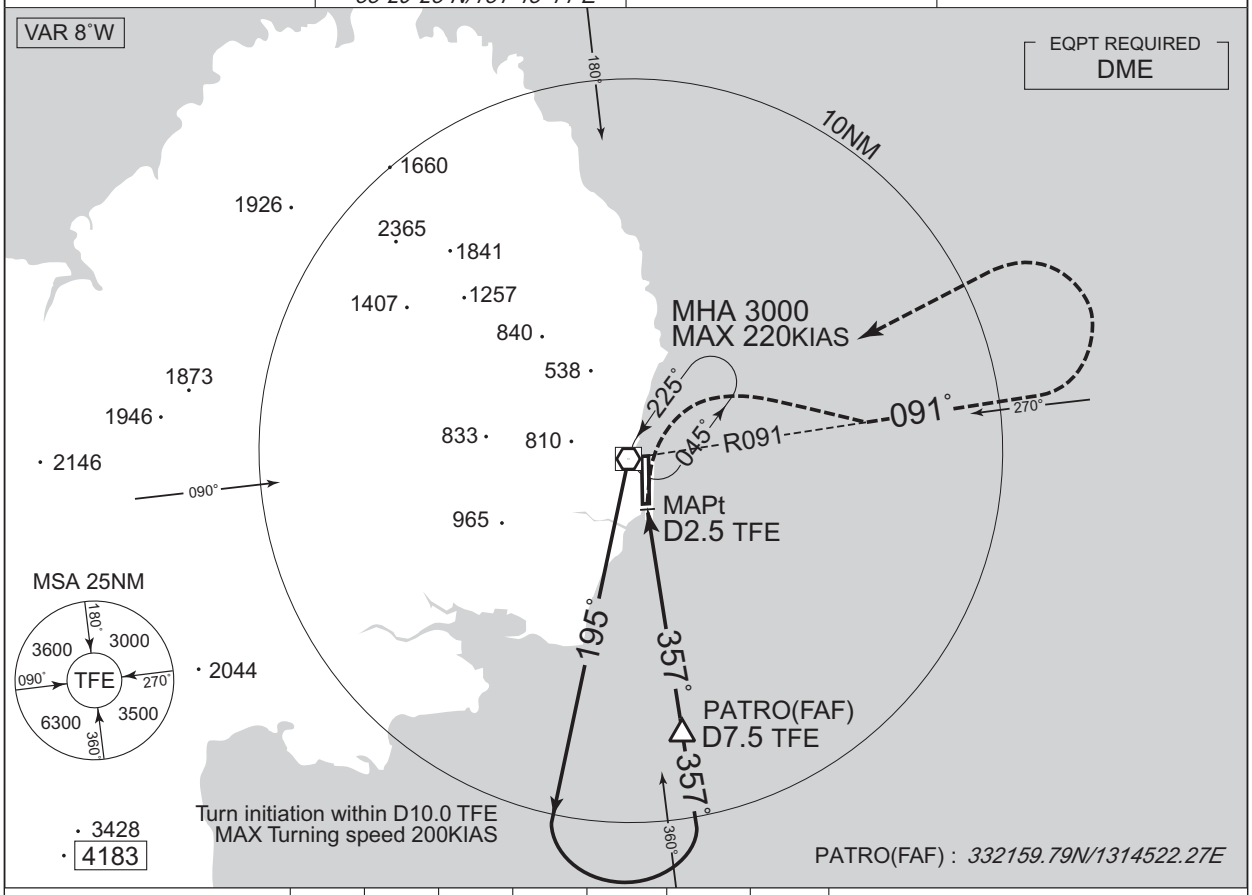
Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
TANSO	*332806.56N / 1315133.74E*	FORF3	*332237.18N / 1314709.46E*
FO153	*332206.75N / 1315004.78E*		
NINEN	*332238.32N / 1314410.42E*		
MINIR	*333001.00N / 1314414.31E*		
BAIEN	*333720.39N / 1315059.77E*		

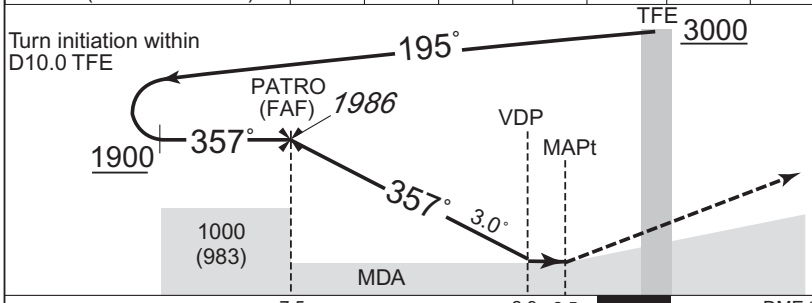
INSTRUMENT APPROACH CHART

RJFO / OITA — VOR RWY01

OITA APP	MUSASHI VOR/DME 117.7 TFE CH–124X	OITA TOWER	RADAR AVBL
120.6	*33°29′23″N/131°43′44″E*	118.8 – 126.2	ATIS 127.8



NM to TFE	FAF	7	6	5	4	3	MAPt
ALT (3.0° APCH Path)	1986	1825	1507	1189	871	552	–



MISSED APPROACH
Turn right, climb to 3000FT via TFE R091, turn left, direct to TFE VOR/DME and hold. Contact OITA APP.

Timing not authorized for defining the MAPt.

MINIMA THR elev. 19 AD elev. 17

CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	500 (483)	1000	500 (483)	1600
B		1200		
C			660 (643)	2400
D		1600	760 (743)	3200

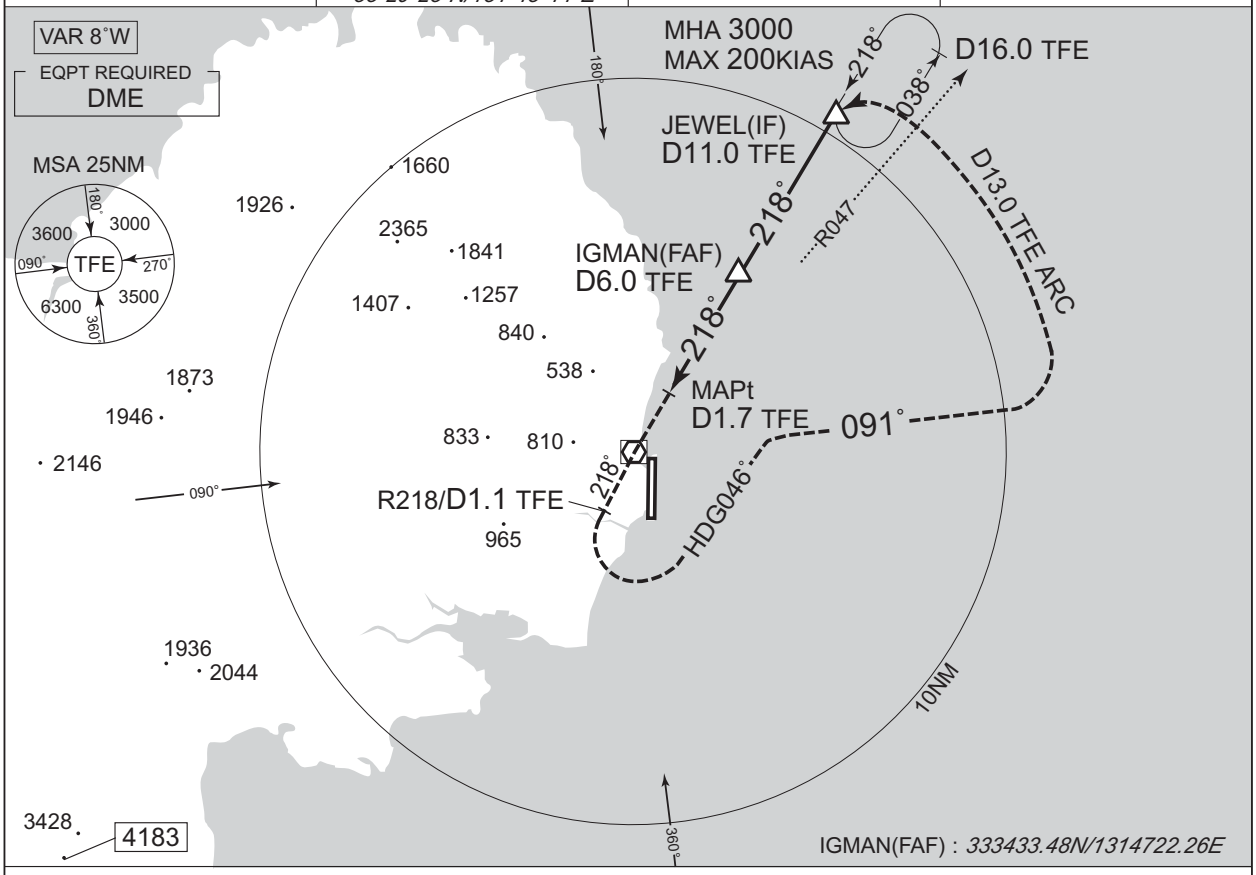
Circling to EAST side of RWY only.

CHANGE : PATRO established. MONKY abolished. MINIMA for CIRCLING CAT C.

INSTRUMENT APPROACH CHART

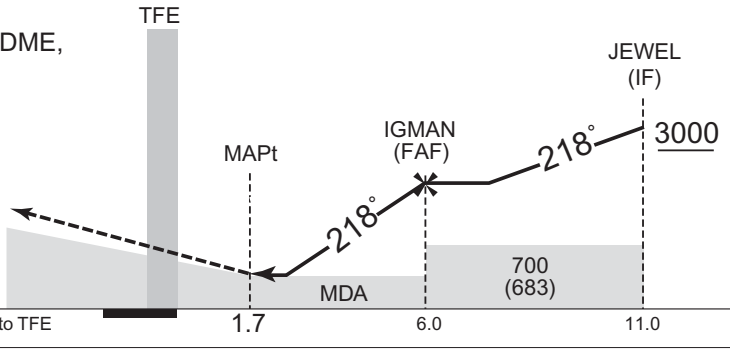
RJFO / OITA VOR A

OITA APP	MUSASHI VOR/DME	OITA TOWER	RADAR AVBL
120.6	117.7 TFE CH–124X *33°29′23″N/131°43′44″E*	118.8 – 126.2	ATIS 127.8



MISSED APPROACH
Climb to 3000FT via TFE R218 to TFE 1.1DME, turn left HDG046° to intercept and proceed via TFE R091 to TFE 13.0DME, turn left, via TFE 13.0DME counterclockwise ARC to intercept and proceed via TFE R038 to JEWEL and hold.
Contact OITA APP.

Timing not authorized for defining the MAPt.



Missed APCH climb gradient MNM 5.0%.

MINIMA		AD elev. 17
CAT	CIRCLING	
	MDA(H)	VIS
A	440 (423)	1600
B	480 (463)	
C	660 (643)	2400
D	760 (743)	3200

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

CHANGE : IGMAN established. MELDY abolished. VAR.

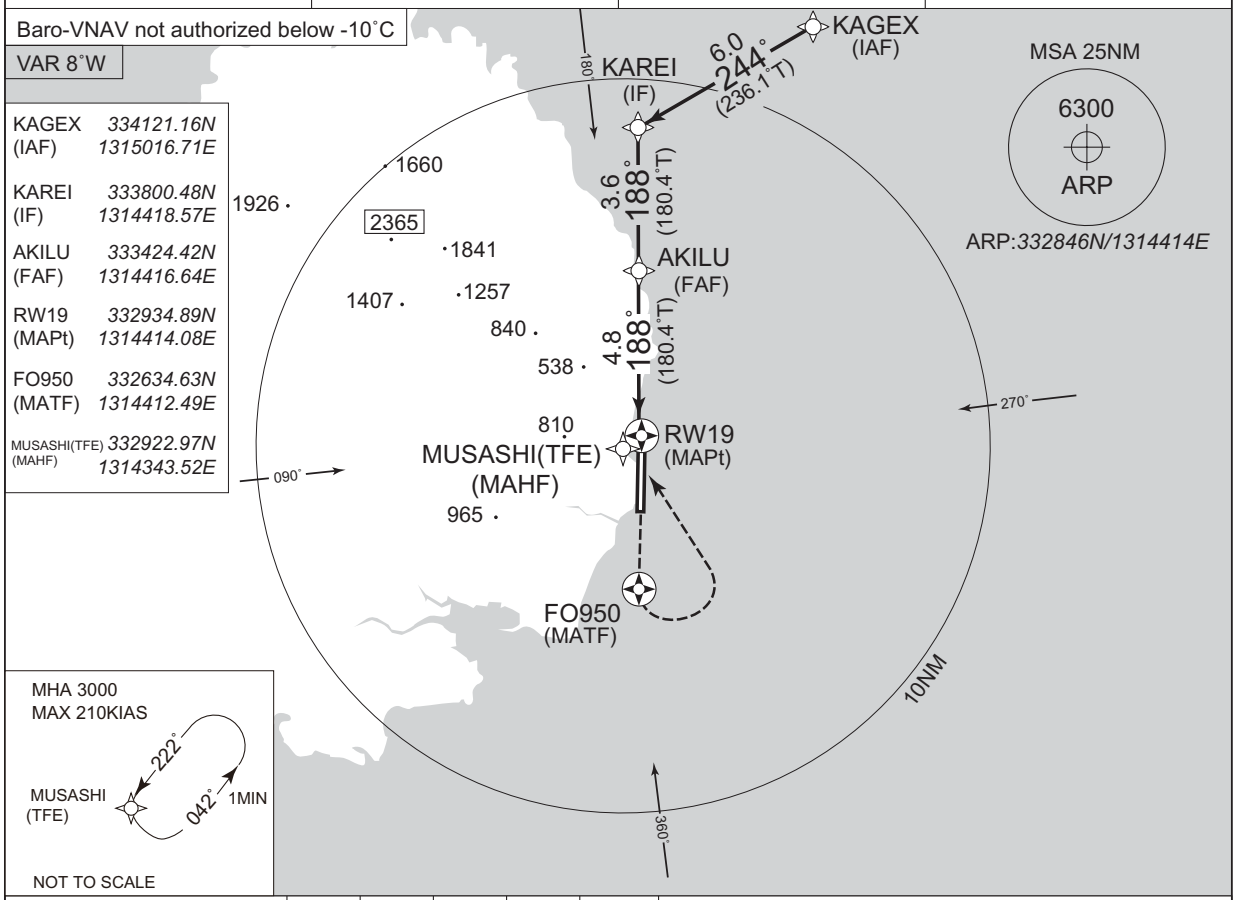
INSTRUMENT APPROACH CHART

RJFO / OITA

RNP Z RWY19

CHANGE : KAGEX, AKILU established. KABOS, KUROZ abolished. PROC course. VAR. HLDG pattern at TFE. ALT restriction at KAREI. NM to THR. Missed APCH climb gradient MNM. MINIMA.

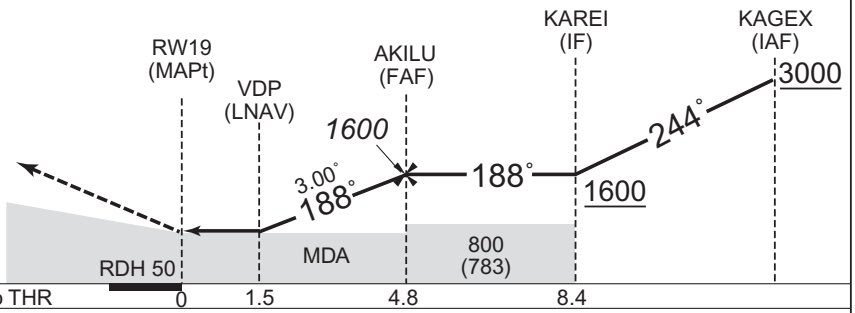
OITA APP	RNP APCH	OITA TOWER	RADAR AVBL
120.6		118.8 – 126.2	ATIS 127.8



NM to Next Fix	MAPt	2	3	4	FAF
ALT (3.0˚ APCH Path)	–	703	1021	1340	1600

MISSED APPROACH

Climb direct to FO950, turn left direct to TFE and hold at 3000FT.
Contact OITA APP.



Missed APCH climb gradient MNM 3.5%.

MINIMA THR elev. 17 AD elev. 17

CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	CMV	MDA(H)	CMV	MDA(H)	VIS
A	311 (294)	1000	550 (533)	1400	550 (533)	1600
B		1100		1500		
C	334 (317)	1400		1600	660 (643)	2400
D		1600		1800	760 (743)	3200

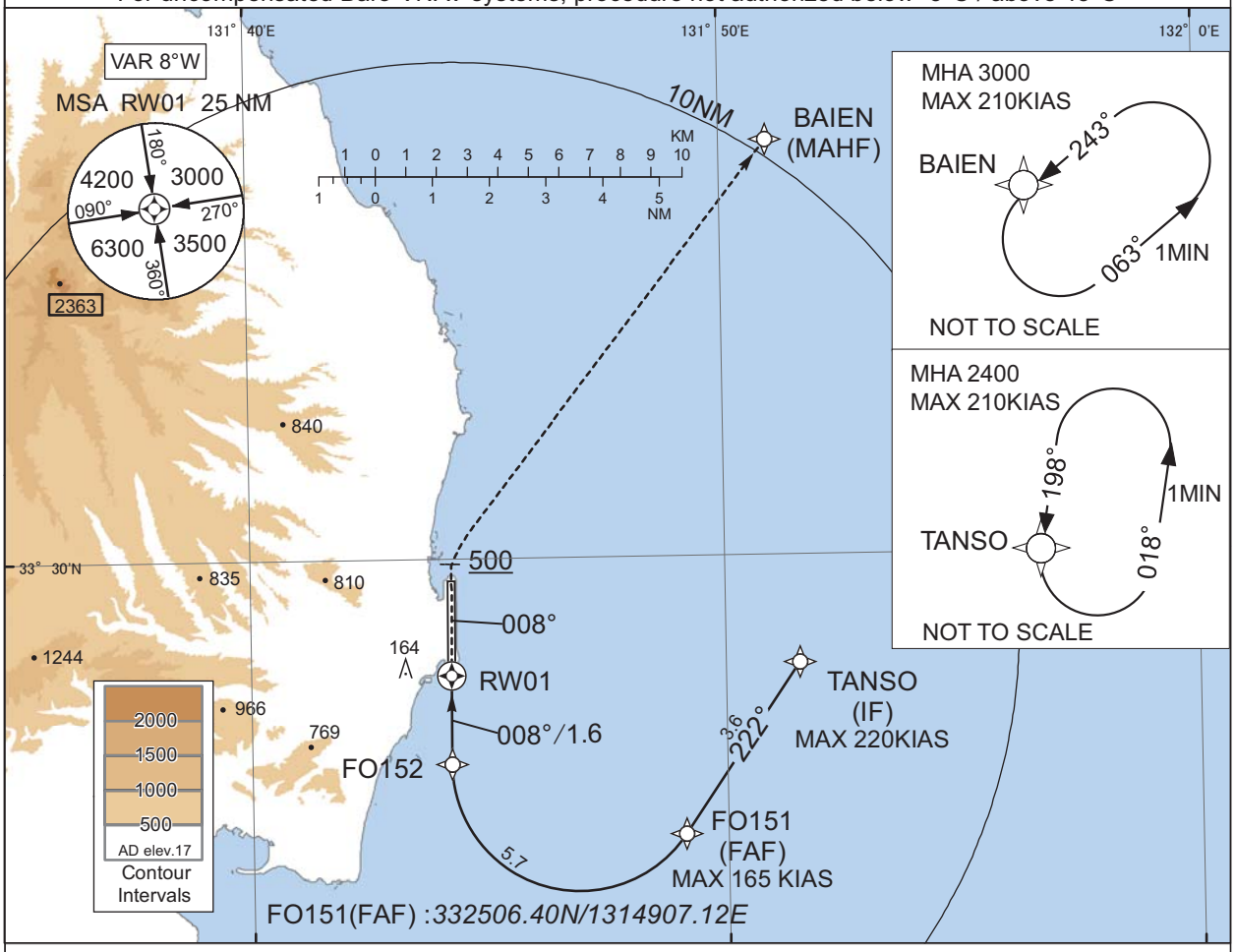
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to EAST side of RWY only.

INSTRUMENT APPROACH CHART

RJFO / OITA — RNP RWY01(AR)

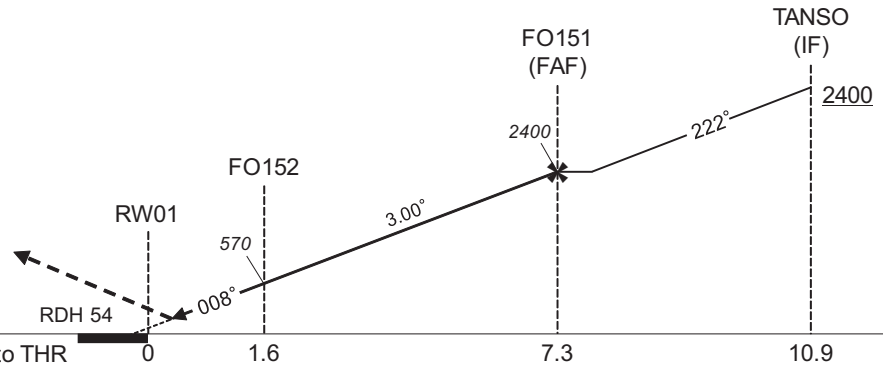
OITA APP 120.6	RNP AR RF required.	OITA TOWER 118.8 - 126.2	RADAR AVBL ATIS 127.8

For uncompensated Baro-VNAV systems, procedure not authorized below -5°C / above 45°C



MISSED APPROACH

From RW01 on track 008°,
at or above 500FT turn right,
direct to BAIEN and hold at
3000FT.
Contact OITA APP.



Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 19	AD elev. 17
CAT	RNP 0.30	
	DA(H)	RVR/CMV
A	-	-
B		
C	326(307)	1000
D		1400

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

Authorization Required

CHANGE : VAR. MSA(BTN 090° and 180°). PROC course. HLDG pattern.

INSTRUMENT APPROACH CHART

RJFO / OITA

RNP RWY01(AR)

CHANGE : PROC course. VAR. HLDG pattern added.

Coding 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	TANSO	-	-	-8.0	-	-	+2400	-220	-	-
002	TF	FO151	-	222 (214.2)	-8.0	3.6	-	2400	-165	-	1.0
003	RF Center: FORF1 r=2.25NM	FO152	-	-	-8.0	5.7	R	570	-	-3.00	0.3
004	TF	RW01	Y	008 (000.4)	-8.0	1.6	-	73	-	-3.00/54	0.3
005	FA	-	-	008 (000.4)	-8.0	-	-	+500	-	-	1.0
006	DF	BAIEN	-	-	-8.0	-	R	3000	-	-	1.0

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	RNP Value
Hold	TANSO	198 (190.0)	-8.0	1.0 (-14000)	L	2400	FL140	-210(-14000)	1.0
Hold	BAIEN	243 (234.9)	-8.0	1.0 (-14000)	L	3000	FL140	-210(-14000)	1.0

Waypoint Coordinates

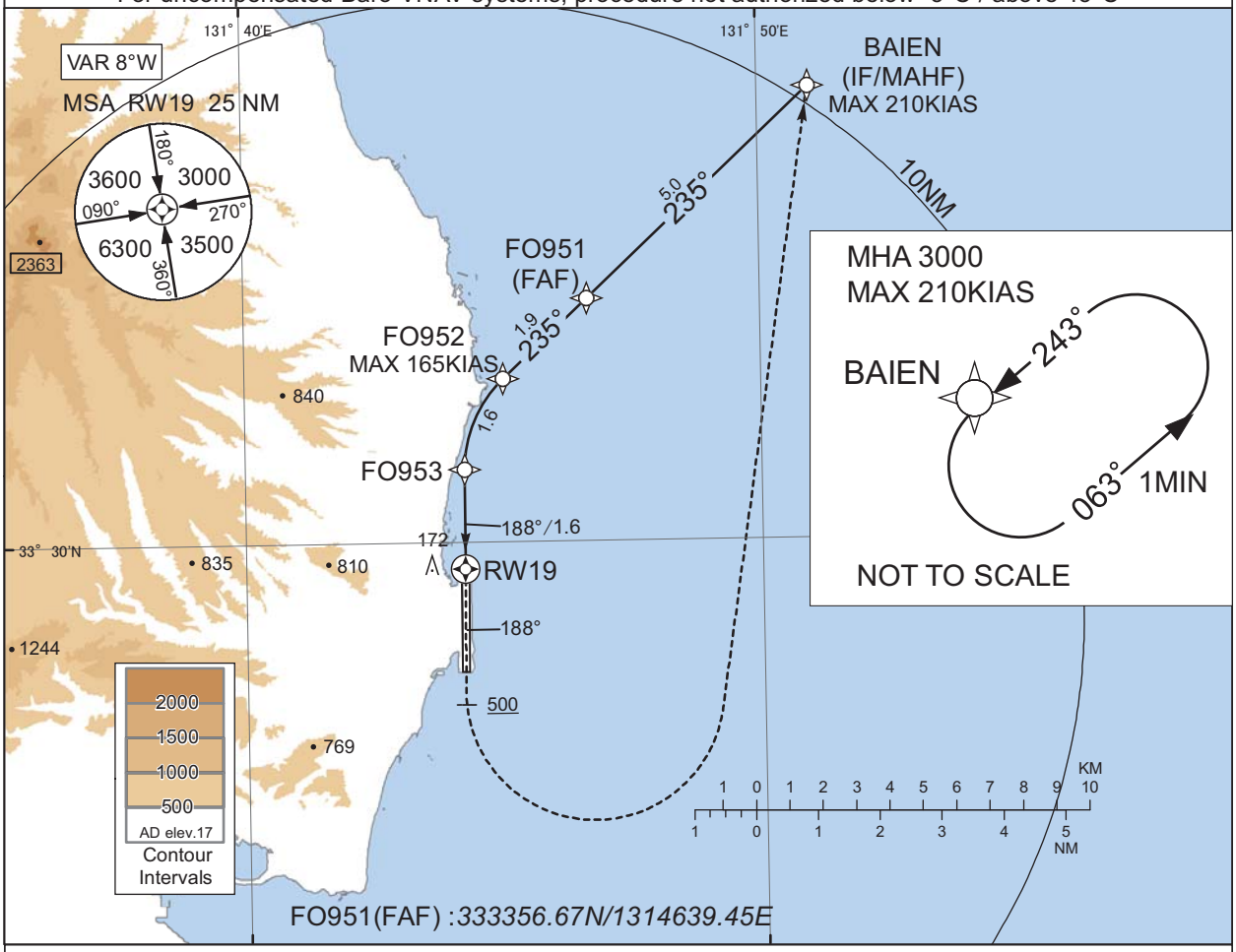
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
TANSO	*332806.56N / 1315133.74E*	FORF1	*332622.64N / 1314653.79E*
FO151	*332506.40N / 1314907.12E*		
FO152	*332623.67N / 1314412.39E*		
RW01	*332757.53N / 1314413.22E*		
BAIEN	*333720.39N / 1315059.77E*		

INSTRUMENT APPROACH CHART

RJFO / OITA — RNP Y RWY19(AR)

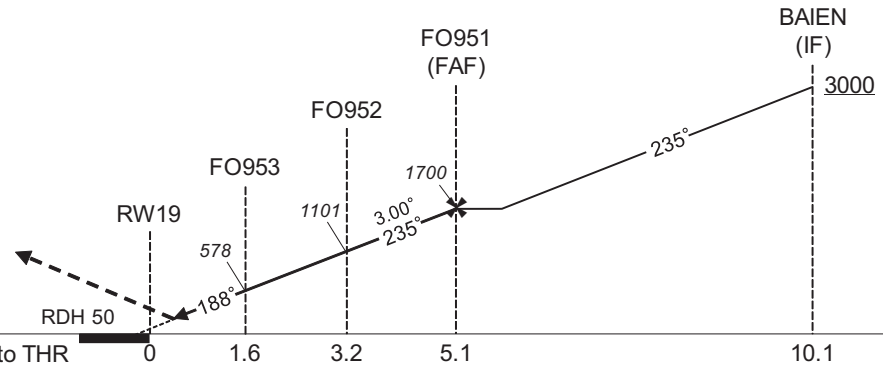
OITA APP 120.6	RNP AR RF required.	OITA TOWER 118.8 - 126.2	RADAR AVBL ATIS 127.8

For uncompensated Baro-VNAV systems, procedure not authorized below -5°C / above 45°C



MISSED APPROACH

From RW19 on track 188°,
at or above 500FT turn left,
direct to BAIEN and hold at
3000FT.
Contact OITA APP.



Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 17	AD elev. 17
CAT	RNP 0.30	
	DA(H)	CMV
A	-	-
B		
C	334(317)	1400
D		1600

Authorization Required

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

CHANGE : VAR. PROC course. HLDG pattern.

INSTRUMENT APPROACH CHART

RJFO / OITA RNP Y RWY19(AR)

CHANGE : PROC course. VAR. HLDG pattern added.

Coding 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	BAIEN	-	-	-8.0	-	-	+3000	-210	-	-
002	TF	FO951	-	235 (226.8)	-8.0	5.0	-	1700	-	-	1.0
003	TF	FO952	-	235 (226.8)	-8.0	1.9	-	1101	-165	-3.00	0.3
004	RF Center: FORF2 r=2.02NM	FO953	-	-	-8.0	1.6	L	578	-	-3.00	0.3
005	TF	RW19	Y	188 (180.4)	-8.0	1.6	-	67	-	-3.00/50	0.3
006	FA	-	-	188 (180.4)	-8.0	-	-	+500	-	-	1.0
007	DF	BAIEN	-	-	-8.0	-	L	3000	-	-	1.0

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	RNP Value
Hold	BAIEN	243 (234.9)	-8.0	1.0 (-14000)	L	3000	FL140	-210(-14000)	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
BAIEN	*333720.39N / 1315059.77E*	FORF2	*333110.65N / 1314640.11E*
FO951	*333356.67N / 1314639.45E*		
FO952	*333239.42N / 1314500.88E*		
FO953	*333111.58N / 1314414.94E*		
RW19	*332934.89N / 1314414.08E*		

RJFO / OITA

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 : Map updated. BRG/DIST from ARP.

Call sign	BRG / DIST from ARP	Remarks
姫島 Himeshima	346 °T / 15.3NM	島 Island
ゴルフコース Golf course	345 °T / 9.7NM	ゴルフ場 Golf course
行入ダム Gyonyu dam	321 °T / 7.0NM	ダム Dam
イーストポイント East point	090 °T / 10.0NM	海上 Over the sea
杵築 Kitsuki	232 °T / 6.7NM	八坂川河口 River mouth (The Yasaka)
佐賀関 Saganoseki	152 °T / 15.0NM	精錬所煙突 Chimney

RJFO / OITA Minimum Vectoring Altitude CHART