AD 2 AERODROMES

RJOK AD 2.1 AERODROME LOCATION INDICATOR AND NAME

RJOK - KOCHI

RJOK AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	333246N /1334010E 266° / 560m FM TWR
2	Direction and distance from (city)	7NM E from Kochi city
3	Elevation/ Reference temperature	29ft / 31°C (2004-2008)
4	Geoid undulation at AD ELEV	120ft
	PSN	
5	MAG VAR/ Annual change	7°W (2006) / 1.0'W
6	AD Administration, address,	Civil Aviation Bureau, Kochi Airport Office
	telephone, telefax, telex, AFS,	Monobe, Nankoku - shi, Kochi Pref.
	e-mail and/or Web-site addresses	TEL: 088(863)2620, FAX: 088(863)2956
		AFS: RJOKYFYX AND RJOKZPZX
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Nil

RJOK AD 2.3 OPERATIONAL HOURS

1	AD Administration	2200 - 1200
2	Customs and immigration	On request Customs: 088-832-6131 Immigration: 088-871-7030
3	Health and sanitation	On request Quarantine(human): 0877-46-4279 Quarantine(animal): 087-879-4654 Quarantine(plant): 088-832-3690
4	AIS Briefing Office	2200 - 1200
5	ATS Reporting Office(ARO)	Nil
6	MET Briefing Office	H24 (KANSAI)
7	ATS	2200 - 1200
8	Fuelling	2200 - 1200
9	Handling	2200 - 1200
10	Security	2200 - 1200
11	De-icing	Nil
12	Remarks	Nil

RJOK AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	AVBL up to B777-200 ACFT
2	Fuel/ oil types	JET A-1, AVGAS 100
3	Fuelling facilities/ capacity	Fuel Truck Refueling
4	De-icing facilities	Nil
5	Hangar space for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	Nil

RJOK AD 2.5 PASSENGER FACILITIES

1	Hotels	In Nankoku City
2	Restaurants	At airport
3	Transportation	Buses and Taxi
4	Medical facilities	In Nankoku City
5	Bank and Post Office	ATM in airport
6	Tourist Office	At airport
7	Remarks	Nil

RJOK 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 x 1 Lighting power supply truck x 1 Emergency medical equipment conveyance truck x 1
3	Capability for removal of disabled aircraft	Nil
4	Remarks	Nil

RJOK AD 2.7 SEASONAL AVAILABILITY-CLEARING

1	Types of clearing equipment	Motor grader x 7
2	Clearance priorities	1) RWY, 2) TWY T1 T6 A1-A5, 3) TWY T2-T5 and APRON
3	Remarks	Snow removal will be commenced when the RWY and TWY are covered with snow its depth 5cm or more

RJOK AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron surface and strength	Surface : Concrete, Strength : PCN 52/R/B/X/T			
2	Taxiway width, surface and	T2 THRU T5			
	strength	Width: 34m, Surface: Asphalt-concrete, Strength: PCN 42/F/A/X/T			
		T1, T6			
		Width: 28.5m, Surface: Asphalt-concrete, Strength: PCN 42/F/A/X/T			
		A1 THRU A5			
		Width: 23m, Surface: Asphalt-concrete, Strength: PCN 42/F/A/X/T			
3	ACL and elevation	Not available			
4	VOR checkpoints	Not available			
5	INS checkpoints	Spot NR			
		0: 333253.60N/1334019.95E			
		1: 333251.95N/1334021.08E			
		2: 333251.32N/1334023.49E			
		3: 333250.05N/1334025.25E			
		4: 333248.79N/1334027.02E			
		5: 333247.49N/1334028.75E			
6	Remarks	Nil			

RJOK AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and Visual dock- ing/ parking guidance system of aircraft stands	Aircraft stand ID signs: Spot NR2-4
2	RWY and TWY markings and LGT	RWY 14/32: (Marking): RWY designation, RWY CL, RWY THR, RWY middle point, Aiming point, TDZ, RWY side stripe (LGT): RCLL, REDL, RENL, RTHL, RTZL(RWY32), WBAR(RWY32) TWY: All TWY (Marking): TWY CL, RWY HLDG PSN, TWY side stripe (LGT): TWY edge LGT, TWY CL LGT, Taxiing guidance sign(T1-T6), RWY guard LGT(T1-T6)
3	Stop bars	Nil
4	Remarks	(Marking): Overrun area (LGT): Apron flood LGT

RJOK AD2-4

AIP Japan
KOCHI

RJOK AD 2.10 AERODROME OBSTACLES

In Area2 See Obstacle data

Other obstacles

OBST ID/ designation	Obstacle type	Coordinates	Elevation	Markings/ LGT	Remarks
RJOK1	Mountain	333401.1N/1333838.6E	182ft	-/LIM	Under APCH SFC
RJOK2	Pole	333328.3N/1333919E	62ft	-/LIL	Under APCH SFC
RJOK3	Pole	333318.3N/1333923E	53ft	-/LIL	Under APCH SFC
RJOK4	Dike	333210.1N/1334059.6E	38ft	-/LIL	Under APCH SFC
RJOK5	Tower	333257N/1333936E	104ft	-/LIL	Under transitional SFC

In Area3 To be developed

RJOK AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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

RJOK AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY(M)	Strength(PCN) 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	
14	130.51°	2500 × 45	PCN 80/F/B/X/T	333312.04N	THR ELEV: 42ft	
			Asphalt Concrete	1333932.98E		
				120.4ft		
32	310.51°	2500 × 45	PCN 80/F/B/X/T	333219.33N	THR ELEV: 17.8ft	
			Asphalt Concrete	1334046.67E	TDZ ELEV: 23ft	
				120.3ft		
Slope	of RWY	Strip Dimensions (M)	RESA (O Dimensio		Remarks	
7 10		10	11		14	
See belo	w figure	2620 × 300	40 × (MNM:242 MAX:300)*		RWY Grooving 2500×30m	
		2620 × 300	180 × (MNM:12 *For detail, ask airp	•		
RWY14 42FT 3	7FT 32F	·T			RWY32	
-0. 55	-0. 69	-0.10		1	18FT 18F . 15 -0. 34 -0. 03	
Om 2	.75m 511.	. 5m	1240m 1	540m 1940n	n 2000m 2400m 2500	

RJOK AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
14 32	2500 2500	2500 2500	2500 2500	2500 2500	Nil Nil

AIP Japan косні

RJOK 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
14	SALS 420m (*1) LIH	Green -	PAPI 3.0°/Left 583.5m 84ft	-	2500m 30m Coded color (White/Red) LIH	2500m 60m Coded color (White/Yellow) LIH	Red	Nil (*2)
32	PALS (CAT I) 420m LIH	Green Green	PAPI 3.0°/Left 404.4m 66ft	900m	2500m 30m Coded color (White/Red) LIH	2500m 60m Coded color (White/Yellow) LIH	Red	Nil (*2)
				Remarks				
				10				

CGL for RWY 14

RJOK AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 333255N/1334030E, White/Green EV4.3sec, HO
2	LDI location and LGT Anemometer location and LGT	LDI:Nil Anemometer : 430m FM RWY 14 THR, LGTD 430m FM RWY 32 THR, LGTD
3	TWY edge and centerline lighting	TWY edge LGT: Blue TWY CL LGT: ALTN Green/Yellow FM RWY leaving Report point,other Green
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

RJOK AD 2.16 HELICOPTER LANDING AREA

Nil

RJOK AD 2.17 ATS AIRSPACE

	Designation and lateral limits	Vertical limits (ft)	Airspace classification	ATS unit call sign Language	Remarks	
	1	1 2 3				
Kochi CTR	Area within a radius of 5nm of KOCHI ARP (33° 33'N/133° 40'E).	3000 or below	D	Kochi TOWER En		
Kansai ACA	See RJBB attached chart		E	Kansai APP Kansai DEP Kansai RADAR En		

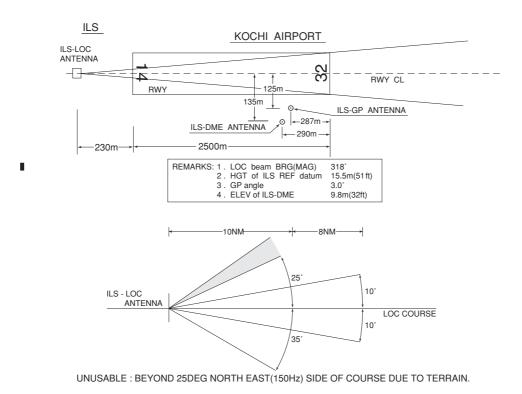
RJOK AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
APP/ASR	Kansai Approach / Kansai Radar	125.0 MHz 124.8 MHz	2200 - 1200	APP service provided by KANSAI APP.
		121.5 MHz(E) 243.0 MHz(E)		
DEP	Kansai Departure	124.8 MHz(1) 125.0 MHz	2200 - 1200	(1)Primary
		121.5 MHz(E) 243.0 MHz(E)		
TWR	Kochi Tower	118.75 MHz(1) 126.2 MHz	2200 - 1200	(1)Primary
		121.5 MHz(E) 243.0 MHz(E)		
ATIS	Kochi Airport	126.45MHz	2200 - 1200	

.

RJOK 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
VOR (7°W / 2008)	KRE	113.7MHz	H24	333230.42N/ 1334048.57E		VOR/DME Unusable: 010°-040° beyond 30nm BLW 8,000ft.
DME	KRE	1171MHz (CH-84X)	H24	333230.42N/ 1334048.57E	16.3m (54ft)	040°-060° beyond 30nm BLW 9,000ft. 340°-010° beyond 30nm BLW 9,000ft.
ILS-LOC 32	IKR	110.9MHz	2200 -1200	333316.90N/ 1333926.24E		LOC: 230m (755ft) away FM RWY 14 THR, BRG (MAG) 318°. Unusable : beyond 25° NE Side of course due to Terrain.
ILS-GP 32	-	330.8MHz	2200-1200	333222.28N/ 1334035.09E		GP: 287m (942ft) inside FM RWY 32 THR, 125m (410ft) SW of RCL. Angle 3.0°, HGT of ILS REF datum 15.5m(51ft).
ILS-DME 32	IKR	1007MHz	2200-1200	333222.10N/ 1334034.73E	9.8m (32ft)	DME: 290m (951ft) inside FM RWY 32 THR, 135m (443ft) SW of RCL.
MSAS		1575.42MHz	H24			Transmitting antennas are satellite based



RJOK AD 2.20 LOCAL TRAFFIC REGULATIONS

1.	Airport	regul	lations
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Aircraft operations other than scheduled flights or in an emergency. Prior permission required for transient aircraft. Call: 088-863-2620(OPS)
Taxiing to and from stands
Nil
Parking area for small aircraft(General aviation)
Nil
Parking area for helicopters
Nil
Apron - taxiing during winter conditions
Nil
Taxiing - limitations
Nil
School and training flights - technical test flights - use of runways
Nil
Helicopter traffic - limitation
Nil
Removal of disabled aircraft from runways
Nil

RJOK AD 2.21 NOISE ABATEMENT PROCEDURES

1. 騒音軽減運航方式

すべてのジェット機に対して、空港周辺における航空機 騒音軽減のため、運航の安全に支障のない範囲で、以下の 方式が適用される。

ただし、これらの方式によることができない航空機は実 効的にこれらと同等と認められる代替方式を実施するもの とする。

- (1) 離陸について (滑走路 32) 急上昇方式
- (2) 着陸について (滑走路 14) ディレイド・フラップ進入方式及び 低フラップ角着陸方式
- (3) リバース·スラストについて なし
- 2. 優先滑走路方式 なし
- 3. 優先飛行経路 なし

1. Noise Abatement Operating Procedures

For all jet aircraft, in order to reduce aircraft noise in the vicinity of airport, the following procedures shall be applied unless compliance of the procedures adversely affects the safety of aircraft operations.

In case that the aircraft is unable to take these procedures, pilots should execute alternative procedures which are considered to be practically equivalent.

- (1) For take-off from RWY32 Steepest Climb Procedure
- (2) For landing to RWY14
 Delayed Flap Approach Procedure and
 Reduced Flap Setting Procedure
- (3) Reverse Thrust
- 2. Preferential Runways Procedures
- 3. Noise Preferential Routes

RJOK AD 2.22 FLIGHT PROCEDURES

1. TAKE OFF MINIMA

	RWY	ACFT CAT	REDL & RCLL		REDL or RCLL or RCL Marking		NIL (DAYTIME ONLY)			
		CAI	CEIL-RVR	CEIL-VIS	CEIL-RVR	CEIL-VIS	RVR-VIS	CEIL-VIS		
Multi-Engine ACFT with	14	A,B,C,D	-	200'-800m	-	200′-800m	-	200′-800m		
TKOF ALTN AP FILED	32	A,B,C,D	0′-400m	0′-400m	0′-400m	0′-400m	-	0′-500m		
OTHER	14	A,B,C,D		AVBL LDG MINIMA						
OTTLK	32	A,B,C,D			AVBL LDG	3 IVIIIVIIVIA				

2. Lost communication procedures for arrival aircraft under radar navigational guidance

If radio communications with Kansai Approach/Radar are lost for 1 minute, squawk Mode A/3 Code 7600 and:

- 1. Contact Kochi Tower.
- 2. If unable, proceed in accordance with Visual Flight Rules.
- 3. If unable.
 - A) When assigned altitude at or above 5,000 feet, proceed to KRE VOR/DME maintaining last assigned altitude and execute instrument approach.
 - B) When assigned altitude below 5,000 feet,
 - a) If established on a segment of the Instrument Approach Procedure, execute that Instrument Approach.
 - b) If not yet established on a segment of the Instrument Approach Procedure, climb and maintain 5,000 feet and proceed to KRE VOR/DME and execute instrument approach.

NOTE: Procedures other than above will be issued when situation required.

RJOK AD 2.23 ADDITIONAL INFORMATION

RJOK AD 2.24 CHARTS RELATED TO AN AERODROME

Figure-01 Aerodrome/Heliport Chart

Figure-07 Standard Departure Chart-Instrument (SHIMIZU)

Figure-07 Standard Departure Chart-Instrument (KOCHI REVERSAL)

Figure-07 Standard Departure Chart-Instrument (URADO REVERSAL)

Figure-07 Standard Departure Chart-Instrument (KARIN-RNAV)

Figure-07 Standard Departure Chart-Instrument (KAIFU-RNAV)

Figure-07 Standard Departure Chart-Instrument (MUROT-RNAV)

Figure-07 Standard Departure Chart-Instrument (OMOGO-RNAV)

Figure-09 Standard Arrival Chart-Instrument (YOSAKOI NORTH-RNAV)

Figure-09 Standard Arrival Chart-Instrument (YOSAKOI EAST-RNAV)

Figure-09 Standard Arrival Chart-Instrument (YOSAKOI SOUTH-RNAV)

Figure-09 Standard Arrival Chart-Instrument (YOSAKOI WEST-RNAV)

Figure-10 Instrument Approach Chart (ILS Z or LOC Z RWY32)

Figure-10 Instrument Approach Chart (ILS Y or LOC Y RWY32)

Figure-10 Instrument Approach Chart (VOR RWY32)

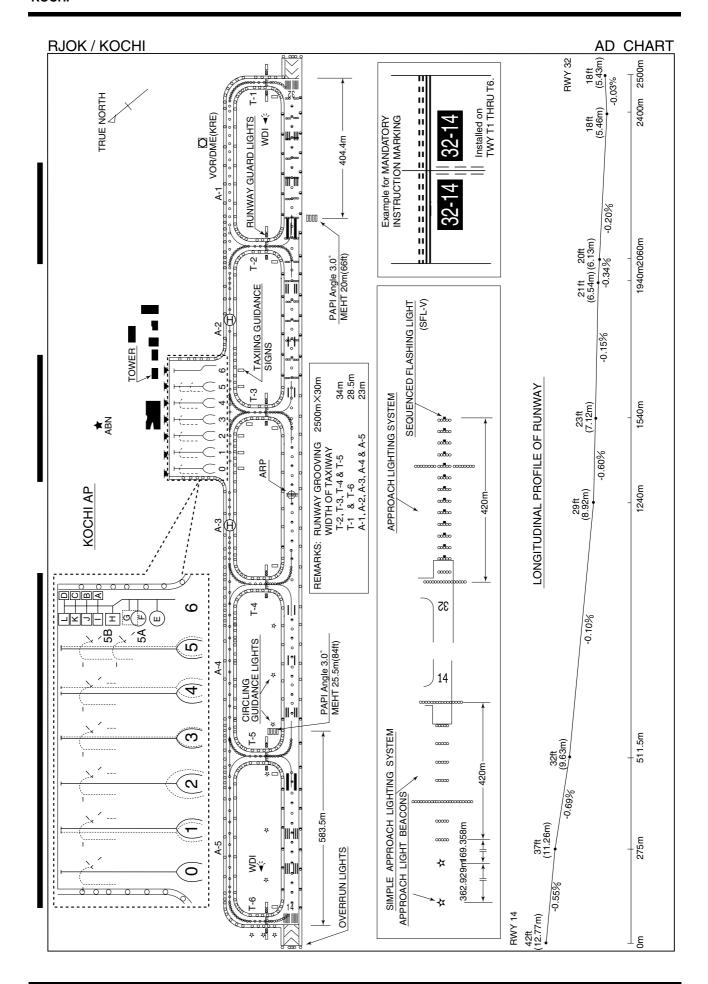
Figure-10 Instrument Approach Chart (RNAV(RNP) Z RWY14)

Figure-10 Instrument Approach Chart (RNAV(RNP) Y RWY14)

Figure-13 Other Chart (Visual REP)

Figure-13 Other Chart (LDG CHART)

Figure-13 Other Chart (MVA CHART)



RJOK / KOCHI SID

SHIMIZU SIX DEPARTURE

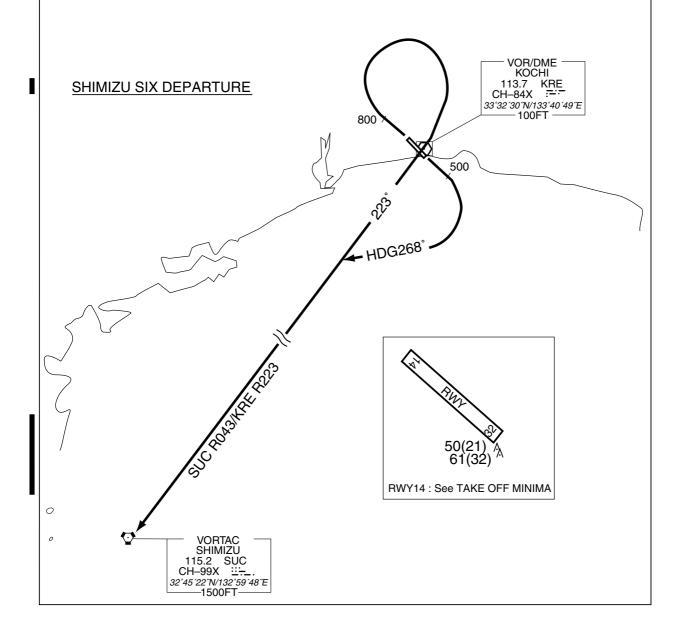
RWY 14: Climb RWY HDG to 500FT, turn right HDG 268°...

RWY 32: Climb RWY HDG to 800FT, turn right...

...to intercept and proceed via KRE R223/SUC R043 to SUC VORTAC.

Note RWY32: 6.0% climb gradient required up to 2500FT.

OBST ALT 2165FT located at 6.6NM 358° FM end of RWY32.



RJOK / KOCHI SID

KOCHI REVERSAL FIVE DEPARTURE

RWY 14: Climb RWY HDG to 500FT, turn right...

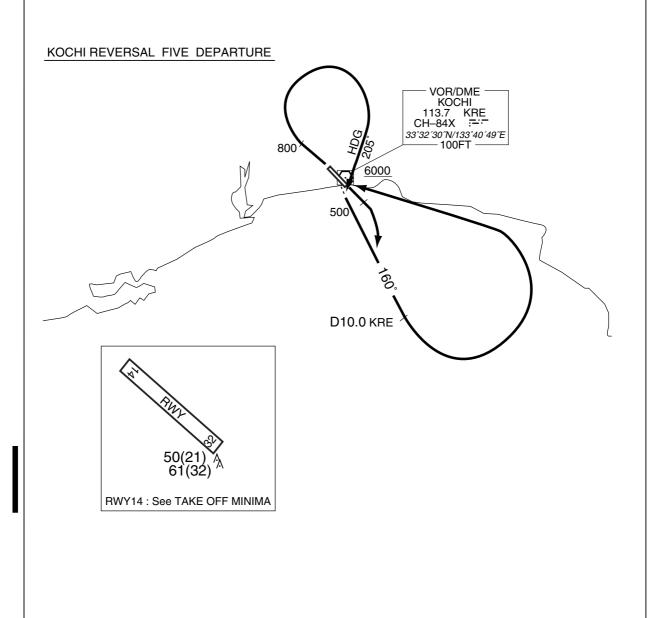
RWY 32: Climb RWY HDG to 800FT, trun right HDG 205°...

...to intercept and proceed via KRE R160 to KRE 10.0DME, then turn left proceed to KRE VOR/DME.

Cross KRE VOR/DME at or above 6000FT.

Note RWY32: 6.0% climb gradient required up to 2500FT.

OBST ALT 2165FT located at 6.6NM 358° FM end of RWY32.



RJOK / KOCHI SID

URADO REVERSAL THREE DEPARTURE

RWY 14: Climb RWY HDG to 500FT, turn right HDG 255°...

RWY 32: Climb RWY HDG to 800FT, trun right...

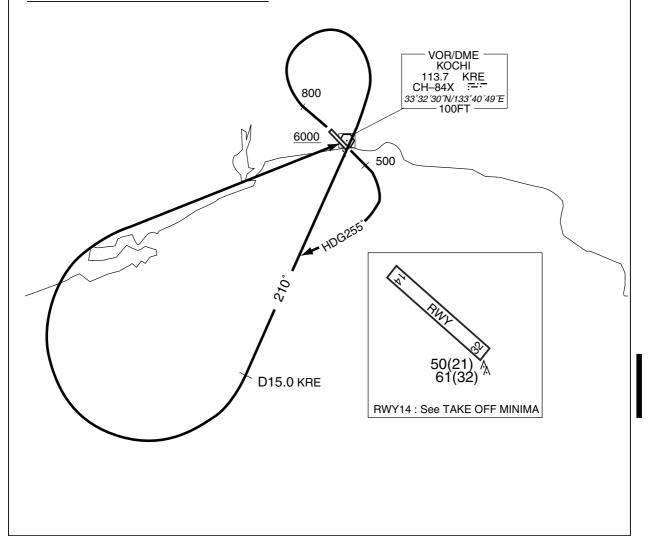
...to intercept and proceed via KRE R210 to KRE 15.0DME, then turn right proceed to KRE VOR/DME.

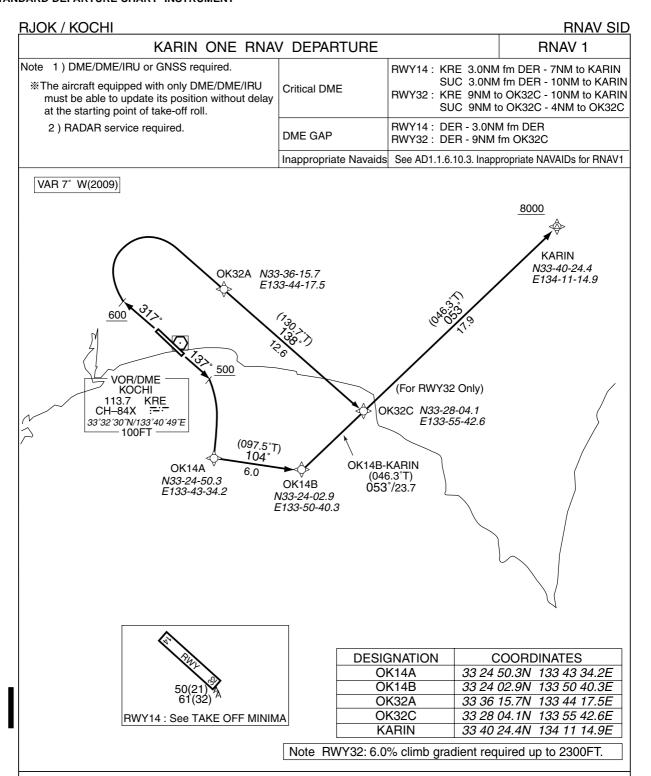
Cross KRE VOR/DME at or above 6000FT.

Note RWY32: 6.0% climb gradient required up to 2500FT.

OBST ALT 2165FT located at 6.6NM 358° FM end of RWY32.

URADO REVERSAL THREE DEPARTURE





RWY14: Climb on HDG137° at or above 500FT, turn right direct to OK14A, to OK14B,

to KARIN at or above 8000FT.

RWY32: Climb on HDG317° at or above 600FT, turn right direct to OK32A, to OK32C,

to KARIN at or above 8000FT.

Note RWY32: 6.0% climb gradient required up to 2300FT.

OBST ALT 1970FT located at 6.13NM 004° FM end of RWY32.

RJOK / KOCHI RNAV SID

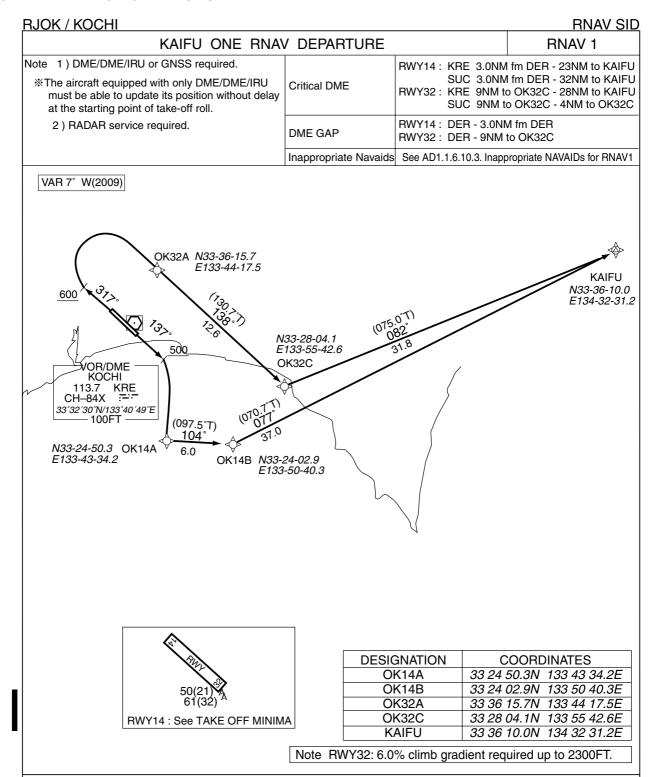
KARIN ONE RNAV DEPARTURE

RWY14

Rcmd. Path Terminator		Fly Over	Distance (NM)	MAG Track (TRUE Track)	Turn Direction	Altitude (FT)	Speed Limit (KIAS)	Vertical Angle	Navigation Performance
VA	_		_	137° (130.6°)	_	+500		_	RNAV1
DF	OK14A	_	_	_	R	_	_	_	RNAV1
TF	OK14B	_	6.0	104° (097.5°)	_	_	_	_	RNAV1
TF	KARIN	_	23.7	053° (046.3°)	_	+8000	_	_	RNAV1

RWY32

Rcmd. Path Terminator		Fly Over	Distance (NM)	MAG Track (TRUE Track)	Turn Direction	Altitude (FT)	Speed Limit (KIAS)	Vertical Angle	Navigation Performance
VA	_	_	_	317° (310.6°)	_	+600	_	_	RNAV1
DF	OK32A	_	_	_	R	_	_	_	RNAV1
TF	OK32C	_	12.6	138° (130.7°)	_	_	_	_	RNAV1
TF	KARIN	_	17.9	053° (046.3°)	_	+8000	_	_	RNAV1



RWY14: Climb on HDG137° at or above 500FT, turn right direct to OK14A, to OK14B, to KAIFU.

RWY32: Climb on HDG317° at or above 600FT, turn right direct to OK32A, to OK32C, to KAIFU.

Note RWY32: 6.0% climb gradient required up to 2300FT.

OBST ALT 1970FT located at 6.13NM 004° FM end of RWY32.

RJOK / KOCHI RNAV SID

KAIFU ONE RNAV DEPARTURE

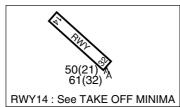
RWY14

Rcmd. Path Terminator	Fix ID (Waypoint Name)	Fly Over	Distance (NM)	MAG Track (TRUE Track)	Turn Direction	Altitude (FT)	Speed Limit (KIAS)	Vertical Angle	Navigation Performance
VA	_	_	_	137° (130.6°)	_	+500	_	_	RNAV1
DF	OK14A	_	_	_	R	_	_	_	RNAV1
TF	OK14B	_	6.0	104° (097.5°)	_	_	_	_	RNAV1
TF	KAIFU	_	37.0	077° (070.7°)	_	_	_	_	RNAV1

RWY32

Rcmd. Path Terminator	Fix ID (Waypoint Name)	Fly Over	Distance (NM)	MAG Track (TRUE Track)	Turn Direction	Altitude (FT)	Speed Limit (KIAS)	Vertical Angle	Navigation Performance
VA	_	_	_	317° (310.6°)	_	+600	_	_	RNAV1
DF	OK32A	_	_	_	R	_	_	_	RNAV1
TF	OK32C	_	12.6	138° (130.7°)	_	_	_	_	RNAV1
TF	KAIFU	_	31.8	082° (075.0°)	_	_	_	_	RNAV1

RNAV SID and TRANSITION RJOK / KOCHI MUROT ONE RNAV 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 Critical DME at the starting point of take-off roll. 2) RADAR service required. RWY14: DER - 3.0NM fm DER DME GAP RWY32: DER - 18.0NM to OK32D VAR 7° W(2009) Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 VOR/DME косні 113.7 KRE CH–84X :=:-33°32′30″N/133°40′49″E 100FT OK32A N33-36-15.7 E133-44-17.5 **KUSHIMOTO TRANSITION** (For RWY32 Only) (082.0°T) 089° (097.7°T) 105° (093.3°T) 4_100°(OK14A KUSHIMOTO N33-24-50.3 E133-43-34.2 14.3 MUROT 19.0 OK32D 12.3 (KEC) N33-26-51.9 E135-47-40.2 MERID N33-22-38.0 MIYAT OK14A-MUROT (097.6°T) 104° N33-21-15.9 E134-03-14.9 N33-20-41.6 N33-19-34.3 E134-57-28.1 E134-20-10.7 E134-42-50.9 30.9 MUROT ONE RNAV DEPARTURE



DESIGNATION	COORDINATES
OK14A	33 24 50.3N 133 43 34.2E
OK32A	33 36 15.7N 133 44 17.5E
OK32D	33 22 38.0N 134 03 14.9E
MUROT	33 20 41.6N 134 20 10.7E
MIYAT	33 19 34.3N 134 42 50.9E
MERID	33 21 15.9N 134 57 28.1E
KUSHIMOTO(KEC)	33 26 51.9N 135 47 40.2E

Note RWY32: 6.0% climb gradient required up to 2300FT.

MUROT ONE RNAV DEPARTURE

RWY14: Climb on HDG137° at or above 500FT, turn right direct to OK14A, to MUROT.

RWY32 : Climb on HDG317° at or above 600FT, turn right direct to OK32A, to OK32D, to MUROT.

KUSHIMOTO TRANSITION

From MUROT to MIYAT, to MERID, to KUSHIMOTO(KEC).

Note RWY32: 6.0% climb gradient required up to 2300FT.

OBST ALT 1970FT located at 6.13NM 004° FM end of RWY32.

RJOK / KOCHI

RNAV SID and TRANSITION

MUROT ONE RNAV DEPARTURE

RWY14

Rcmd. Path Terminator		Fly Over	Distance (NM)	MAG Track (TRUE Track)	Turn Direction	Altitude (FT)	Speed Limit (KIAS)	Vertical Angle	Navigation Performance
VA	_	_	_	137° (130.6°)	_	+500	_	_	RNAV1
DF	OK14A	_	_	_	R	_	_	_	RNAV1
TF	MUROT	_	30.9	104° (097.6°)	_	_	_	_	RNAV1

RWY32

Rcmd. Path Terminator	Fix ID (Waypoint Name)	Fly Over	Distance (NM)	MAG Track (TRUE Track)	Turn Direction	Altitude (FT)	Speed Limit (KIAS)	Vertical Angle	Navigation Performance
VA	_	_	_	317° (310.6°)	_	+600	_	_	RNAV1
DF	OK32A	_	_	_	R	_	_	_	RNAV1
TF	OK32D	_	20.9	138° (130.7°)	_	_	_	_	RNAV1
TF	MUROT	_	14.3	105° (097.7°)	_		_	_	RNAV1

KUSHIMOTO TRANSITION

Rcmd. Path Terminator	Fix ID (Waypoint Name)	Fly Over	Distance (NM)	MAG Track (TRUE Track)	Turn Direction	Altitude (FT)	Speed Limit (KIAS)	Vertical Angle	Navigation Performance
IF	MUROT	_	_	_	_	_	_	_	RNAV1
TF	MIYAT	_	19.0	100° (093.3°)	_	_	_	_	RNAV1
TF	MERID	_	12.3	089° (082.0°)	_	_	_	_	RNAV1
TF	KUSHIMOTO (KEC)	_	42.3	089° (082.2°)	_	_	_	_	RNAV1

RJOK / KOCHI **RNAV SID** RNAV 1 OMOGO TWO RNAV DEPARTURE Note 1) DME/DME/IRU or GNSS required. RWY14: KRE 16NM to YUZNO - 7NM to YUZNO SUC 16NM to YUZNO - 7NM to YUZNO %The aircraft equipped with only DME/DME/IRU Critical DME RWY32: KRE 4NM to OK32B - 25NM to YUZNO must be able to update its position without delay SUC 4NM to OK32B - 25NM to YUZNO at the starting point of take-off roll. RWY14: DER - 16NM to YUZNO 2) RADAR service required. RWY32: DER - 4NM to OK32B DME GAP 25NM to YUZNO - 18NM to YUZNO Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 VAR 7° W(2017) **OMOGO** 334049.7N 331233.1E VOR/DME KOCHI OK32A 113.7 KRE CH-84X :---333615.7N 1334417.5E YUZNO 33°32′30″N/133°40′49″E 100FT 333934.0N 600 1331704.7E OK32B 333143.9N 1335036.8E 500 (For RWY14 Only) OK14C 332650.1N 1333334.8E OK32E 332159.2N OK32E-YUZNO 1333949.8E 25.9 320 RWY14: See TAKE OFF MINIMA RWY14: Climb on HDG138° at or above 500FT, turn right direct to OK14C, to YUZNO, to OMOGO. RWY32: Climb on HDG318° at or above 600FT, turn right direct to OK32A, to OK32B, to OK32E, to YUZNO, to OMOGO. Note RWY32: 6.0% climb gradient required up to 2300FT. OBST ALT 1970FT located at 6.1NM 004° FM end of RWY32.

RJOK / KOCHI RNAV SID

OMOGO TWO RNAV DEPARTURE

RWY14

Serial Number	Path Descriptor	Waypoint Identifier	,	Course °M(°T)	Magnetic Variation	I	Turn Direction			l	Navigation Specification
001	VA	_		138 (130.6)	-7.4	_	_	+500	_	-	RNAV1
002	DF	OK14C	-	_	-7.4	_	R	_	_	_	RNAV1
003	TF	YUZNO	1	320 (312.9)	-7.4	18.8	_	_	_	_	RNAV1
004	TF	OMOGO	_	296 (288.5)	-7.4	4.0	_	_	_	_	RNAV1

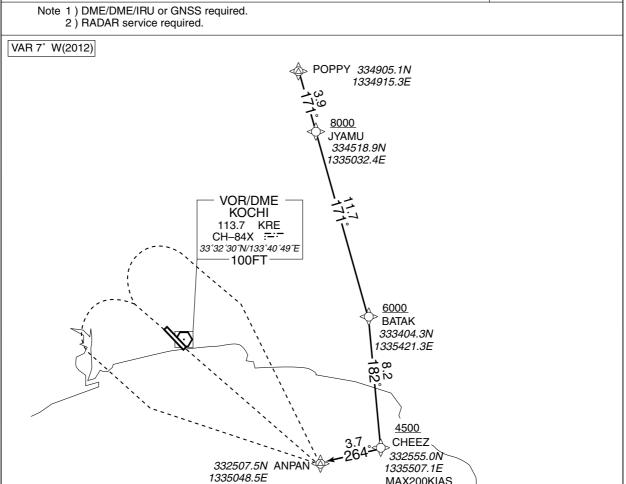
RWY32

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	l	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	1	1	318 (310.6)	-7.4	_	_	+600	_	_	RNAV1
002	DF	OK32A	_	-	-7.4	_	R	_	_	_	RNAV1
003	TF	OK32B	1	138 (130.7)	-7.4	7.0	_	_	_	_	RNAV1
004	TF	OK32E	ı	230 (222.8)	-7.4	13.3	-	_	_	_	RNAV1
005	TF	YUZNO	-	320 (312.9)	-7.4	25.9	_	_	_	_	RNAV1
006	TF	OMOGO	1	296 (288.5)	-7.4	4.0	_	<u>-</u>	_	_	RNAV1

STANDARD ARRIVAL CHART-INSTRUMENT

RJOK / KOCHI RNAV STAR





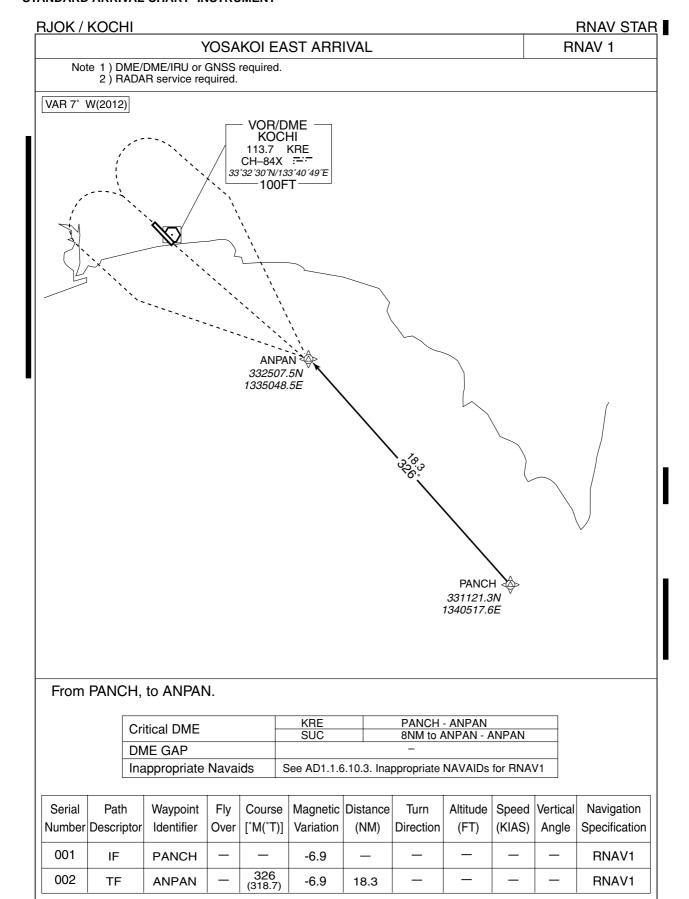
From POPPY, to JYAMU at or above 8000FT, to BATAK at or above 6000FT, to CHEEZ at or above 4500FT, to ANPAN.

MAX200KIAS

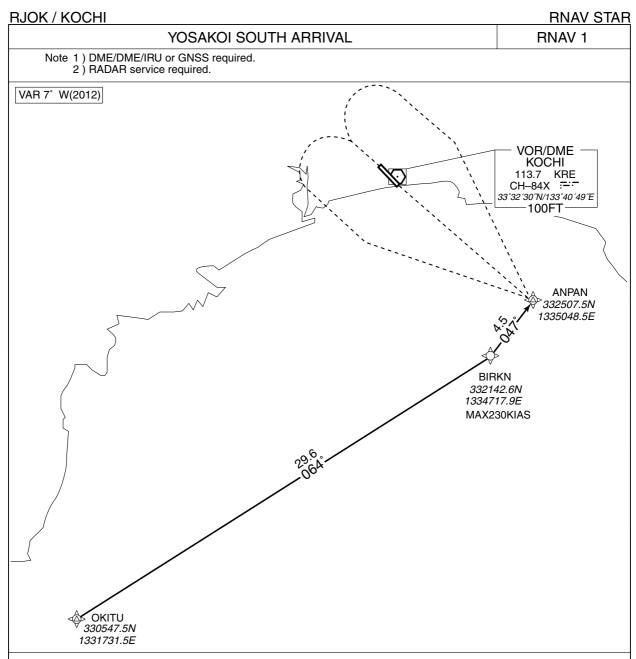
	GBD	POPPY - 2NM to BATAK				
Critical DME	SUC	7NM to BATAK - ANPAN				
omioai biii	KRE 1NM to BATAK - ANPAN					
DME GAP	_					
Inappropriate Navaids	See AD1.1.6.10.	3. Inappropriate NAVAIDs for RNAV1				

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	POPPY	_	_	-6.9	_	_	_	_	_	RNAV1
002	TF	JYAMU	_	171 (164.2)	-6.9	3.9	_	+8000	_	_	RNAV1
003	TF	BATAK	_	171 (164.2)	-6.9	11.7	_	+6000	_		RNAV1
004	TF	CHEEZ	_	182 (175.5)	-6.9	8.2	_	+4500	-200	_	RNAV1
005	TF	ANPAN	_	264 (257.6)	-6.9	3.7	_	_	_	_	RNAV1

STANDARD ARRIVAL CHART -INSTRUMENT



STANDARD ARRIVAL CHART -INSTRUMENT

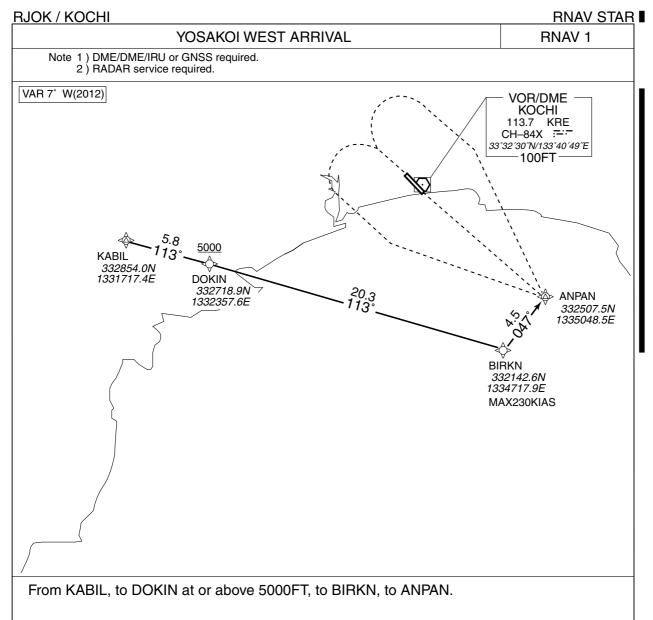


From OKITU, to BIRKN, to ANPAN.

	IWT	OKITU - 26NM to BIRKN				
Critical DME	SUC	12NM to BIRKN - ANPAN				
5 5 =	KRE 12NM to BIRKN - ANPAN					
DME GAP	26NM to BIRKN - 12NM to BIRKN					
Inappropriate Navaids	See AD1.1.6.10.	3. Inappropriate NAVAIDs for RNAV1				

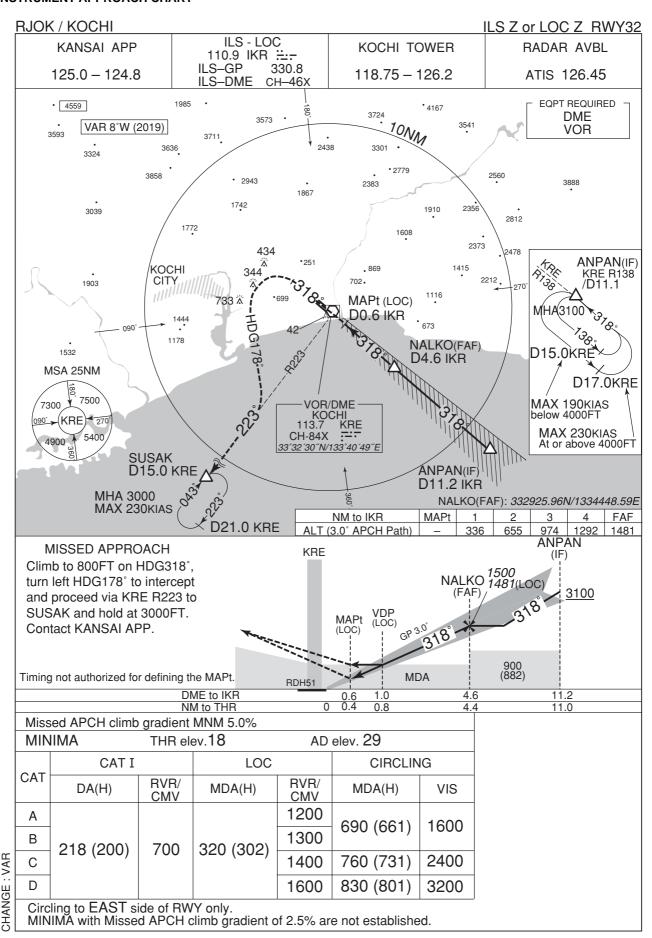
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	•		Turn Direction	Altitude (FT)	Speed (KIAS)		
001	IF	OKITU	_	_	-6.9	_	_	_	_	_	RNAV1
002	TF	BIRKN	_	064 (057.3)	-6.9	29.6	_	_	-230	_	RNAV1
003	TF	ANPAN	_	047 (040.6)	-6.9	4.5	_	_	_	_	RNAV1

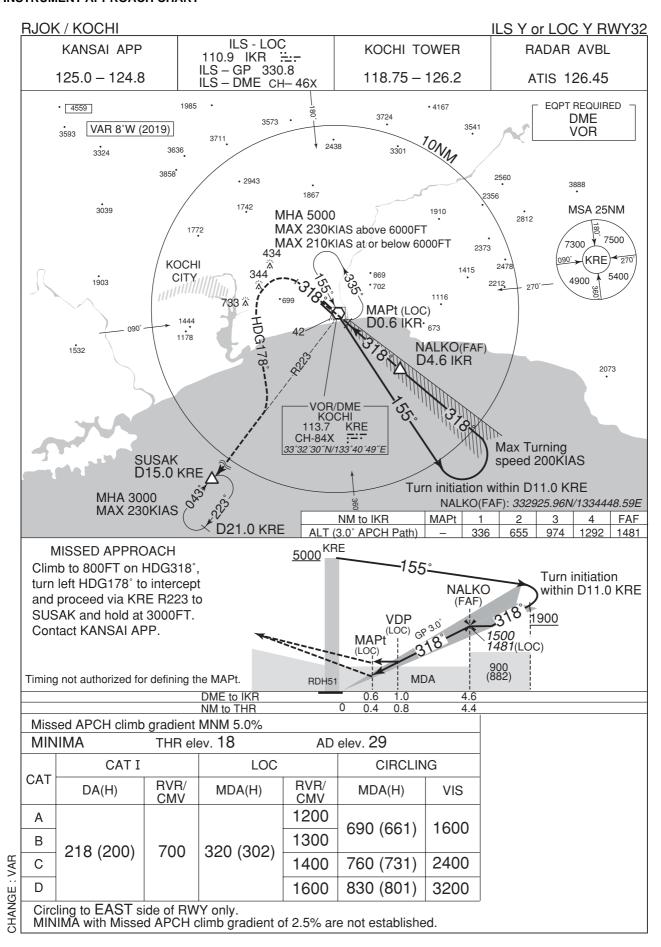
STANDARD ARRIVAL CHART -INSTRUMENT

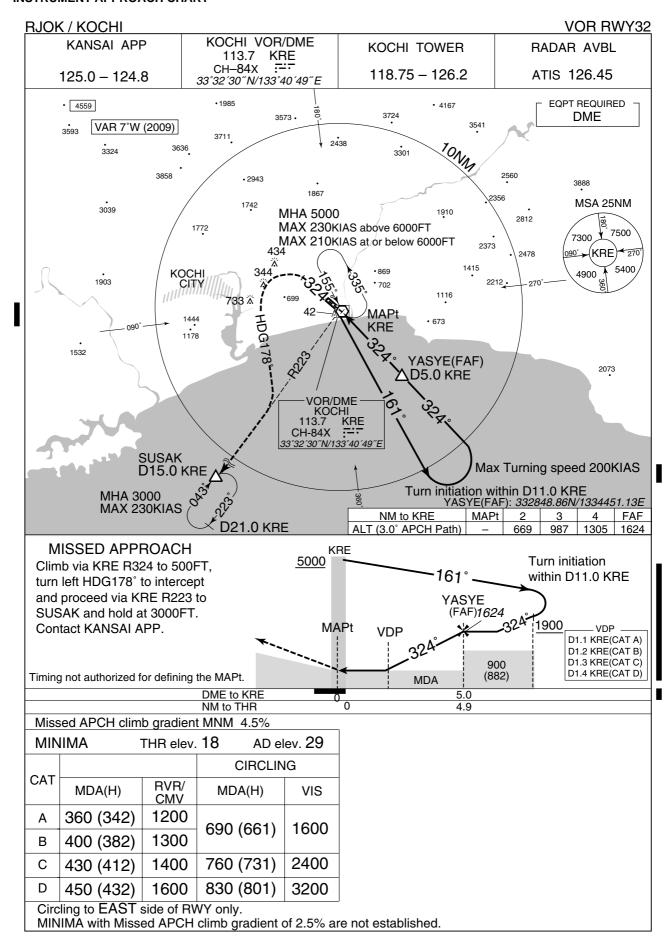


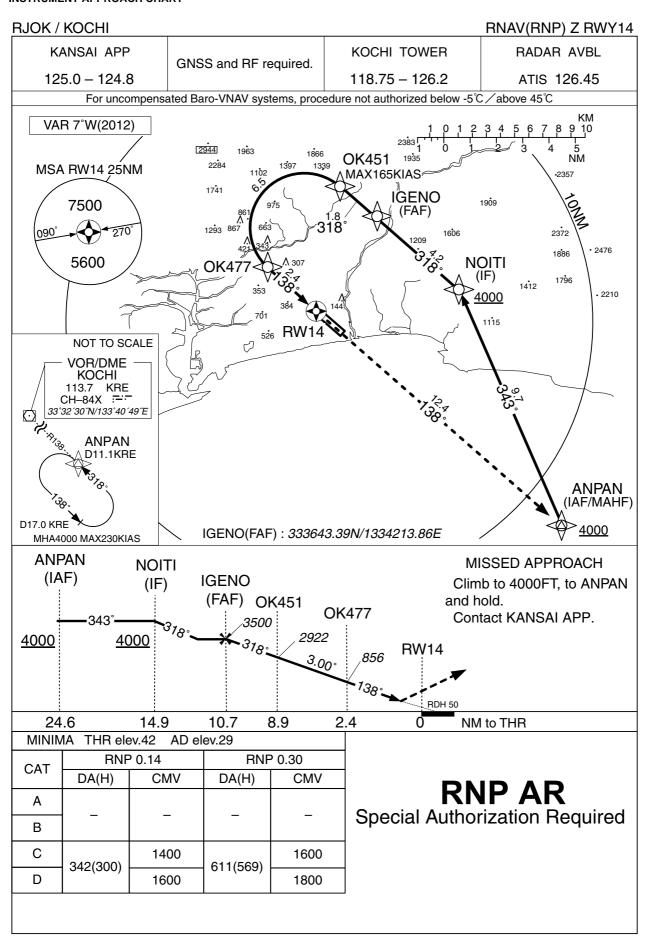
Critical DME	KRE	1NM to DOKIN - 16NM to BIRKN 7NM to BIRKN - ANPAN			
Offical Divic	SUC	1NM to DOKIN - 16NM to BIRKN 7NM to BIRKN - ANPAN			
DME GAP	16NM to BIRKN - 7NM to BIRKN				
Inappropriate Navaids	See AD1.1.6.10.	3. Inappropriate NAVAIDs for RNAV1			

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Ŭ
001	IF	KABIL	_	_	-6.9	_	_	_	_	_	RNAV1
002	TF	DOKIN	_	113 (105.9)	-6.9	5.8	_	+5000	_	_	RNAV1
003	TF	BIRKN		113 (105.9)	-6.9	20.3	1	_	-230	1	RNAV1
004	TF	ANPAN	_	047 (040.6)	-6.9	4.5	_	_	_	_	RNAV1









RJOK / KOCHI

RNAV(RNP) Z RWY14

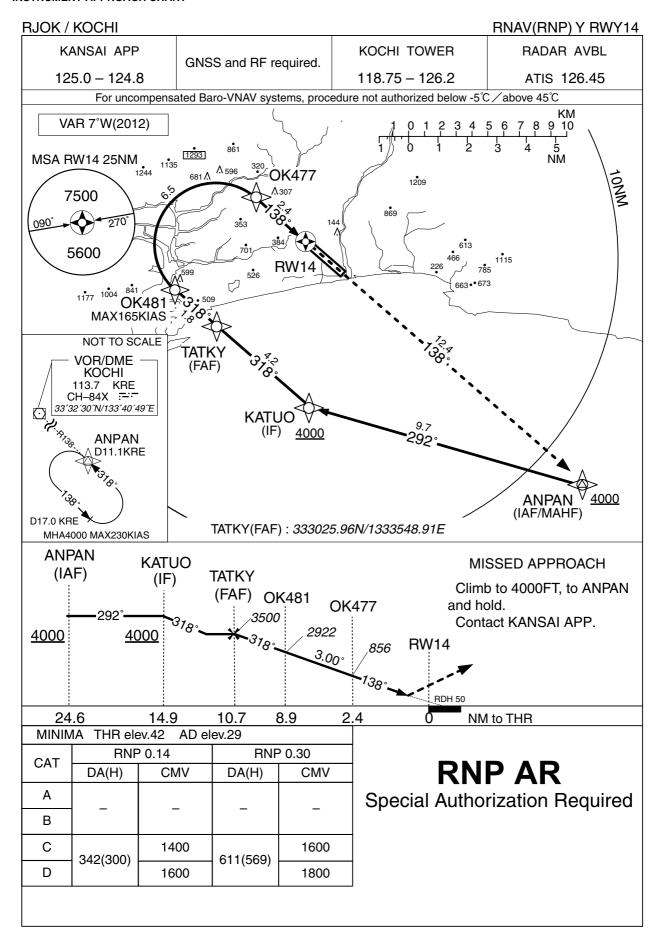
RNAV(RNP) Z RWY14

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	ANPAN	_	_	-6.9	_	1	+4000	_	_	_
002	TF	NOITI	_	343 (335.9)	-6.9	9.7	_	+4000	_	_	1.0
003	TF	IGENO	_	318 (310.7)	-6.9	4.2	_	3500	_	_	1.0
004	TF	OK451	_	318 (310.7)	-6.9	1.8		2922	-165	-3.00	0.14 0.30
005	RF Center: OKRF1 r=2.07NM	OK477	_	_	-6.9	6.5	L	856	_	-3.00	0.14 0.30
006	TF	RW14	Y	138 (130.6)	-6.9	2.4	_	92	_	-3.00/50	0.14 0.30
007	TF	ANPAN	_	138 (130.6)	-6.9	12.4	_	4000	_	_	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
ANPAN	332507.54N/1335048.52E	OKRF1	333620.13N/1333858.11E
NOITI	333400.03N/1334602.07E		
IGENO	333643.39N/1334213.86E		
OK451	333754.48N/1334034.43E		
OK477	333445.76N/1333721.85E		
RW14	333312.04N/1333932.98E		



RJOK / KOCHI

RNAV(RNP) Y RWY14

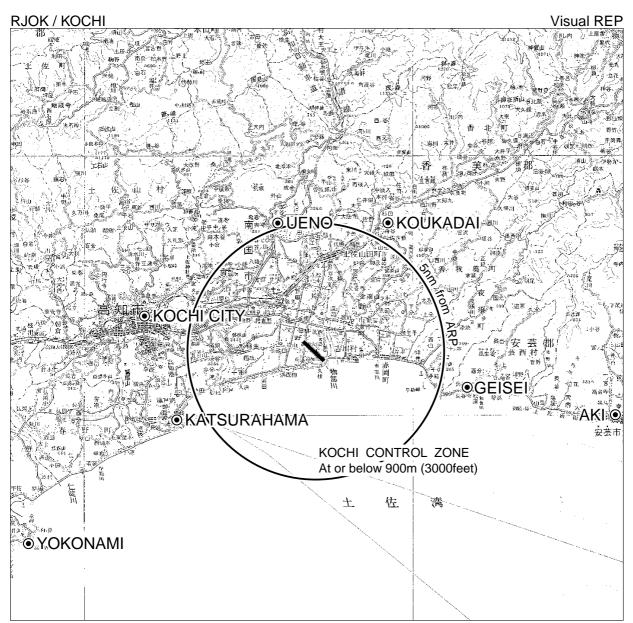
RNAV(RNP) Y RWY14

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	ANPAN		_	-6.9	_	_	+4000	_	_	_
002	TF	KATUO	_	292 (285.5)	-6.9	9.7	_	+4000	_	_	1.0
003	TF	TATKY	_	318 (310.6)	-6.9	4.2	_	3500	_	_	1.0
004	TF	OK481	_	318 (310.6)	-6.9	1.8	_	2922	-165	-3.00	0.14 0.30
005	RF Center: OKRF2 r=2.07NM	OK477	_	_	-6.9	6.5	R	856	_	-3.00	0.14 0.30
006	TF	RW14	Υ	138 (130.6)	-6.9	2.4	_	92	_	-3.00/50	0.14 0.30
007	TF	ANPAN	_	138 (130.6)	-6.9	12.4	_	4000	_	_	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
ANPAN	332507.54N/1335048.52E	OKRF2	333311.37N/1333545.65E
KATUO	332742.79N/1333937.02E		
TATKY	333025.96N/1333548.91E		
OK481	333136.96N/1333409.51E		
OK477	333445.76N/1333721.85E		
RW14	333312.04N/1333932.98E		



Call sign	BRG / DIST from ARP	Remarks		
工 科 大 Koukadai	035°/ 5.2NM	高知工科大学 Kochi University of Technology		
芸 西 Geisei	113°/ 5.9NM	観光ホテル Hotel		
桂 浜 Katsurahama	248°/ 6.0NM	浦戸大橋 Bridge		
高 知 市 Kochi city	290°/ 6.5NM	JR高知駅 Station		
植 野 Ueno	355°/ 5.0NM	ゴルフ場 Golf course		
安 芸 Aki	110°/12.5NM	安芸川河口 River mouth		
横 浪 Yokonami	243°/12.9NM	国民宿舎 Hotel		

