### **AD 2 AERODROMES**

# **RJNA AD 2.1 AERODROME LOCATION INDICATOR AND NAME**

# **RJNA - NAGOYA**

### RJNA AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	351518N/1365528E 153°/1.42km FM RWY 16 THR
2	Direction and distance from (city)	10km NE FM Nagoya City (Nagoya Station)
3	Elevation/ Reference temperature	46ft / 34.3°C(2000-2004)
4	Geoid undulation at AD ELEV PSN	126ft
5	MAG VAR/ Annual change	7° W(2006) /Annual Change 0.7' W
6	AD Administration, address, telephone, telefax, telex, AFS, e-mail and/or Web-site addresses	Aichi Pref. Public AP Nagoya Airport Administration Office Toyoba, Toyoyamacho, Nishikasugaigun, Aichi Pref. Tel: 0568-29-1785 , Fax: 0568-29-1806 Web: http://www.pref.aichi.jp/0000005859.html
7	Types of traffic permitted(IFR/VFR)	IFR/VFR
8	Remarks	Nil

### **RJNA AD 2.3 OPERATIONAL HOURS**

1	AD Administration	2200 - 1300			
2	Customs and immigration	On request Customs: 052-398-4225 Immigration: 052-559-2150			
3	Health and sanitation	On request Quarantine(human): 052-661-4131 Quarantine(animal): 052-651-0334, 0569-38-8577 Quarantine(plant): 052-651-0112			
4	AIS Briefing Office	Nil			
5	ATS Reporting Office(ARO)	Nil			
6	MET Briefing Office	Nil			
7	ATS	H24 by JSDF-A			
8	Fuelling	2100 - 1200			
9	Handling	Ask AD Administration			
10	Security	Ask AD Administration			
11	De-icing	Nil			
12	Remarks	Nil			

# **RJNA AD 2.4 HANDLING SERVICES AND FACILITIES**

1	Cargo-handling facilities	Nil	
2 Fuel/ oil types		Fuel grades : 100, JET A-1 Oil grades : W80,W100, ASTO/500,ASTO/555	
3	Fuelling facilities/ capacity	Fuel truck refueling / Ask AD Administration	
4	De-icing facilities	Nil	
5	Hangar space for visiting aircraft	Nil	
6	Repair facilities for visiting aircraft	Nil	
7	Remarks	Nil	

### **RJNA AD 2.5 PASSENGER FACILITIES**

1	Hotels	Hotels in Nagoya city		
2	Restaurants	Around Airport		
3	Transportation	Busses and Taxis		
4	Medical facilities	Around Airport]		
5	Bank and Post Office	Around Airport		
6	Tourist Office	Nil		
7	Remarks	Nil		

### **RJNA AD 2.6 RESCUE AND FIRE FIGHTING SERVICES**

1	AD category for fire fighting	CAT 6		
2	Rescue equipment	Chemical fire fighting truck × 2		
		Emergency medical equipment conveyance truck		
		Lighting power supply truck		
3	Capability for removal of disabled aircraft	Nil		
4	Remarks	Nil		

#### **RJNA AD 2.7 SEASONAL AVAILABILITY-CLEARING**

1	Types of clearing equipment	Snow remove equipments:Motor graders	
2 Clearance priorities		Nil	
3	Remarks	Seasonal availability:All seasons	

# RJNA AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron surface and strength	All Apron : Surface: asphalt-concrete and cement-concrete  Strength:  Spot NR1, 2A-2L, 3A-3H, 4A, 4A1, 4A2, 4B, 4C, 4D,  4D1, 4D2, 4E, 4F, 5A-5H, 6A-6H  Spot NR7A-7H, 8A-8I  Spot NR9A-9H, 12A-12H  Spot NR13, 13A, 14, 14A-14E, 15A-15C,  other apron taxiways  PCN 69/R/C/X/T  Compass setting apron  PCN 46/F/C/X/U
2	Taxiway width, surface and strength	All TWY Surface: asphalt concrete and cement-concrete  TWY WP1: Width: 23m, Strength: PCN 69/R/C/W/T  TWY WP2, WP3, WP4, WP5: Width: 23m, Strength: PCN 83/F/C/X/T  TWY W1: Width: 26.5m, Strength: PCN 83/F/C/X/T  TWY W9: Width: 28.5m, Strength: PCN 83/F/C/X/T  TWY W2, W4, W6,W7, W8: Width: 30.0m, Strength: PCN 83/F/C/X/T  TWY W3: Width: 30m, Strength: PCN 97/F/D/W/T  TWY W5: Width: 30m, Strength: PCN 97/F/D/Z/T  M1 TWY: Width: 23m, Strength: PCN 54/R/C/X/T  M2 TWY: Width: 23m, Strength: PCN 69/R/C/X/T  M3 TWY: Width: 23m, Strength: PCN 65/R/C/X/T  Width: 18m, Strength: PCN 32/F/C/X/T
3	ACL and elevation	Not available
4	VOR checkpoints	Not available
5	INS checkpoints	Spot NR  1: 351453.04N 1365531.62E  9A: 351510.82N 1365522.27E  9B: 351510.30N 1365521.06E  9C: 351509.78N 1365519.85E  12A: 351515.48N 1365518.50E  12B: 351514.34N 1365516.90E  12C: 351513.74N 1365515.54E  12D: 351512.97N 1365520.90E  12E: 351512.45N 1365519.69E  12F: 351511.93N 1365518.48E  13: 351516.34N 1365517.53E  13A: 351516.26N 1365518.21E  14: 351515.88N 1365515.92E  14B: 351515.30N 1365514.55E  14C: 351518.92N 1365514.15E  14E: 351518.09N 1365514.15E  14E: 351522.05N 1365514.62E  15B: 351521.22N 1365512.69E  15C: 351520.39N 1365510.76E
6	Remarks	Nil

AIP Japan NAGOYA

# RJNA 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	Nil
2	RWY and TWY markings and LGT	RWY: RWY16/34  (Marking) RWY designation, RWY CL, RWY THR, Aiming point,
3	Stop bars	Nil
4	Remarks	(Marking) Overrun area (LGT) Apron flood LGT

### **RJNA AD 2.10 AERODROME OBSTACLES**

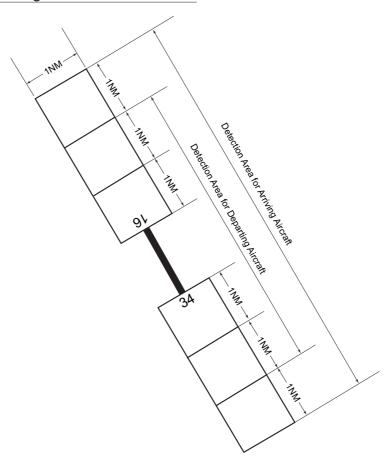
In Area2 See Obstacle data

In Area3 To be developed

# **RJNA AD 2.11 METEOROLOGICAL INFORMATION PROVIDED**

1	Associated MET Office	Aichi Pref.
2	Hours of service MET Office outside hours	Nil
3	Office responsible for TAF preparation Periods of validity	Nil
4	Trend forecast Interval of issuance	Nil
5	Briefing/ consultation provided	Nil
6	Flight documentation Language(s) used	C En
7	Charts and other information available for briefing or consultation	Nil
8	Supplementary equipment available for providing information	Nil
9	ATS units provided with information	TWR
10	Additional information(limitation of service, etc.)	Meteorological charts ( S <sub>6</sub> , U <sub>85</sub> , U <sub>7</sub> , U <sub>5</sub> , U <sub>3</sub> , P <sub>S</sub> , P <sub>SW</sub> , U <sub>2</sub> /T <sub>r</sub> , C) are displayed, while briefing is not provided.

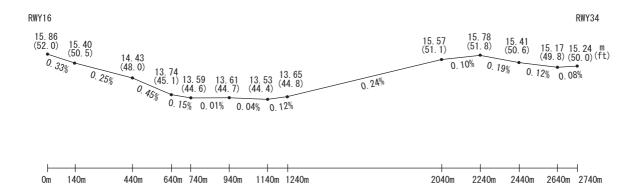
# Airspace for the advisory service concerning low level wind shear



UPPER LIMIT : 1600ft above FIELD ELEV LEVEL LOWER LIMIT : FIELD ELEV LEVEL

# **RJNA AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS**

	Designations RWY NR	TRUE BRG	Dimensions o RWY(M)	f 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
	16 152.42° 34 332.42°		2740x45 PCN63/F/B/X/T Asphalt Concrete		351559.16N 1365502.69E 125ft	THR ELEV:52ft TDZ ELEV:52ft
			2740x45	PCN63/F/B/X/T Asphalt Concrete	351440.36N 1365552.86E 126ft	THR ELEV:50.0ft TDZ ELEV:52ft
	Slope of RW	KWY .		RESA(Overrun) Dimensions(M)	Remarks	
ı	7	10	)	11	14	
I	See Below Cha	art 2860x	:300 240x(N	1NM:197 MAX:341)*	RWY grooving: 2740m x 30m Overrun barrier(type net) 75m outside from THR, Arresting gear 17m outside from THR.	
	See Below Cha	art 2860x	*For de	MNM:200 MAX:300)* etail, port administrator	RWY grooving : 2740m x 30m Overrun barrier(type net) 42m outside from THR, Arresting gear at THR	



#### **RJNA AD 2.13 DECLARED DISTANCES**

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
16 34	2740 2740	2740 2740	2740 2740	2740 2740	Nil Nil

# **RJNA 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
16	PALS 480m LIH	Green -	PAPI 3.0°/LEFT 437m 64ft	-	2,740m 30m Coded color (White/Red) LIH	2,740m 60m Coded color (White/Yellow) LIH	Red	Nil (*1)
34	PALS (CAT I) 450m LIH	Green Green	PAPI 3.0°/LEFT 419m 67.3ft	900m	2,740m 30m Coded color (White/Red) LIH	2,740m 60m Coded color (White/Yellow) LIH	Red	Nil (*1)
				Remark	S			
				10				
Overrun area	edge LGT(	LEN:60m C	olor:Red)(*1)					

# **RJNA AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY**

1	ABN/IBN location, characteristics and hours of operation	ABN: 351508N/1365516E, White/Green EV4.3sec, HO
2	LDI location and LGT Anemometer location and LGT	LDI : Nil Anemometer : RWY16 : 350m FM RWY16 THR, LGTD RWY34 : 390m FM RWY34 THR, LGTD
3	TWY edge and centerline 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 and Overrun area edge LGT Within 15 sec: Other lights
6	Remarks	WDI LGT

# **RJNA AD 2.16 HELICOPTER LANDING AREA**

Nil
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# **RJNA 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
	NAGOYA CTR	Area defined as follows. (1) Area within a radius of 5NM of NAGOYA ARP (3515N/13655E) (2) Area within a line connecting 3515N13659E, 3511N13701E, 3509N13657E, 3513N13654E and 3515N13659E in consecutive order.	3000	D	NAGOYA TWR En	
		1. The airspace bounded by the lines connecting the following points. (1) 351103N/1370057E, (2) 350913N/1365637E, (3) 350633N/1365818E, (4) 350824N/1370238E thence to point(1).	4000 —— 800		CENTRAIR APP CENTRAIR RADAR	
-	NAGOYA PCA	2. The airspace bounded by the lines connecting the following points.  (4) 350824N/1370238E, (3) 350633N/1365818E, (5) 350338N/1370008E, (6) 350531N/1370426E thence to point(4). The line connecting point(5) to point(6) is the minor arc with a radius of 13NM from Nagoya VORTAC(KCC).		С	CENTRAIR DEP EN	
	CHUBU ACA	See RJGG AD2.17		E	CENTRAIR APP/DEP/ RADAR En	
	CHUBU TCA	See RJGG AD2.17		E	CENTRAIR TCA En	

# 名古屋特別管制区 Nagoya Positive Control Area

		UPPER LIMIT (AMSL)	UNIT	
NAME	LATERAL LIMITS	LOWER LIMIT (AMSL) M(ft)	PROVIDING SERVICE	REMARKS
1	2	3	4	5
名古屋 NAGOYA	下記に示される区域 The area shown below		Primary  Centrair APP  121.05 119.175  228.4 245.3  Centrair Radar  125.55  Secondary  Nagoya TWR  118.7 236.8  122.7 305.7	当該空域を飛行しようとする航空機は、CentrairアプローチCentrairレーダー)又は名古屋タワーに連絡し、現在位置、高度及び意図を通報し指示を受けること。 Pilot of aircraft operating in this area shall contact Centrai APP(RADAR) or Nagoya TWR for ATC instructions giving informations on aircraft identification, position, altitude and pilot's intention.
	KCC	351103N 1370057E		
		800	350824N 370238E 350531N 1370426E	
		1370008E		

# **RJNA AD 2.18 ATS COMMUNICATION FACILITIES**

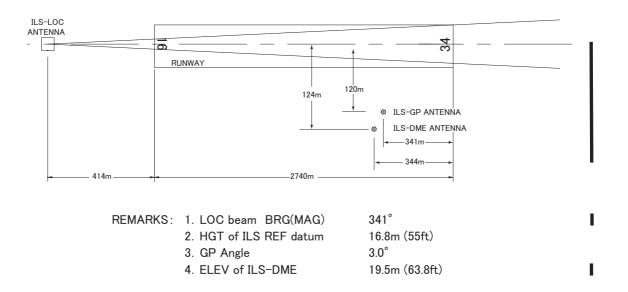
Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
APP	Centrair Approach	119.175 MHz (1) 245.3 MHz (1) 121.05 MHz 228.4 MHz 121.5 MHz (E) 243.0 MHz (E)	H24	(1) Primary
RADAR	Centrair Radar	121.225 MHz 227.2 MHz 125.55 MHz 121.5 MHz (E) 243.0 MHz (E)	H24	
DEP	Centrair Departure	121.225 MHz 227.2 MHz 119.175 MHz 245.3 MHz 121.5 MHz (E) 243.0 MHz (E)	H24	
TCA	Centrair TCA	119.25 MHz 321.2 MHz 121.175 MHz 318.0 MHz	2330 - 1100	
TWR	Nagoya Tower	236.8 MHz 305.7 MHz 118.7 MHz 122.7 MHz 247.0 MHz (1) 138.05 MHz (1) 123.1 MHz (1) 243.0 MHz (E) 121.5 MHz (E)	H24	(1) For rescue only
GND	Nagoya Ground	275.7 MHz 121.7 MHz	H24	
DLVRY	Nagoya Delivery	258.9 MHz 121.75 MHz	H24	
GCA-ASR -PAR	Nagoya GCA	270.8 MHz 335.6 MHz 239.3 MHz 134.1 MHz 119.9 MHz 120.3 MHz 243.0 MHz(E) 121.5 MHz(E)	H24	See AD2.22 "FLIGHT PROCEDURES"

# **RJNA 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 (8°W / 2017)	KCC	114.2MHz	H24	351554.96N 1365453.73E		VOR Unusable: 200°-210° beyond 35nm BLW 5000ft. 260°-270° beyond 30nm BLW 7000ft. 320°-340° beyond 20nm BLW 8000ft.
TACAN	KCC	1176MHz (CH-89X)	H24	351555.75N 1365452.23E	83ft	TACAN DME unusable: 200°-210° beyond 35nm BLW 5000ft.
						TACAN AZM unusable: 160°-180° beyond 35nm BLW 5000ft. 180°-200° beyond 30nm BLW 5000ft. 200°-210° beyond 25nm BLW 5000ft. 260°-270° beyond 35nm BLW 7000ft.
ILS-LOC34	IKC	108.9MHz	2200-1300	351611.06N 1365455.11E		BRG (MAG) 341° 414m away FM RWY16 THR
ILS-GP34		329.3MHz	2200-1300	351448.37N 1365542.42E		GP angle 3.0° HGT of ILS Ref datum 55ft 341m inside FM RWY34 THR 120m SW of RCL
ILS-DME34	IKC	987MHz (CH-26X)	2200-1300	351448.41N 1365542.23E	63.8ft	344m inside FM RWY34 THR 124m SW of RCL
MSAS		1575.42MHz	H24			Transmitting antennas are satellite based

# NAGOYA AIRPORT

ILS for RWY 34



#### **RJNA AD 2.20 LOCAL TRAFFIC REGULATIONS**

1.1 空港の使用について、航空機の運航者はあらかじめ 愛知県に届け出ること。	1.1 On use of NAGOYA airport, aircraft operator is required to notify Aichi Pref in advance.
1.2 訓練飛行を行うときは、愛知県の承認を得ること。	1.2 Training flight is subject to the approval of Aichi Pref.

2. Taxiing to and from stands

NII	
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3. Parking area for small aircraft(General aviation)

Nil

4. Parking area for helicopters

|--|

5. Apron - taxiing during winter conditions

Nil

6. Taxiing - limitations

#### 6.1 誘導路交差地点の翼端クリアランス

(AD1.1.6.8 参照)

# 6.1 Wing tip clearance at the TWY intersection

(REF. AD1.1.6.8)

誘導路上の停止位置に待機中の航空機と後方の誘導路を 走行する航空機の翼端クリアランスは以下のとおりであ る。 Wing tip clearance at the TWY intersection between the aircraft holding at the stop marking on the TWY and the other aircraft taxiing behind it are as follows.

(1) When B773 holding at the stop marking on TWY W2 or W8

Wing Span (WS) of aircraft taxiing on WP1 – Apron TWY or WP3 – WP4	WS =< 15.2m	15.2m < WS =< 32.2m	WS > 32.2m
Wing tip clearance	*A	*B	*C

(2) When A333 holding at the stop marking on TWY W7

Wing Span (WS) of aircraft taxiing on WP2 - WP3	WS =< 12.9m	WS > 12.9m	.egend: A : wing tip clearance >= 15m B : 6.5m =< wing tip clearance < 15m
Wing tip clearance	*B	*C	*C : wing tip clearance < 6.5m

#### 6.2 B773 のための誘導路運用ガイダンス

#### 6.2 TWY operational guidance for B773

B773 の操縦士は、誘導路 W2、W4、W5、W6、W7、W8 のコーナーには特に注意を払うこと。

The pilots of B773 are required to pay special attention at the corner section TWY W2, W4, W5, W6, W7 and W8.

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

140
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8. Helicopter traffic - limitation

Nil
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9. Removal of disabled aircraft from runways

Nil
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#### **RJNA 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 16/34) 急上昇方式
- (2) 着陸について(滑走路 16/34)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

すべてのジェット機に対して、航行の安全確保及 び飛行の目的に支障がない範囲において適用され る。

(1) 滑走路 34 から離陸する場合

名古屋 VORTAC から 2 海里の地点を通過するまで直線飛行する。

(2) 滑走路 16 から離陸する場合

名古屋 VORTAC から 3 海里の地点を通過するまで直線飛行する。

#### 1. Noise Abatement Operating Procedures

For all jet aircraft, in order to reduce aircraft noise in the vicinity of the 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 RWY 16/34 Steepest Climb Procedure
- (2) For landing to RWY 16/34 Delayed Flap Approach Procedure and Reduced Flap Setting Procedure
- (3) Reverse Thrust Nil

# 2. Preferential Runways Procedures

#### 3. Noise Preferential Routes

For all jet aircraft, the following noise preferential routes are adopted, as long as flight safety is not jeopardized or purpose of flight is not hindered.

(1) For take-off from RWY 34

Pilots are requested to strictly follow extended runway centerline until passing 2NM from Nagoya VORTAC.

(2) For take-off to RWY 16

Pilots are requested to strictly follow extended runway centerline until passing 3NM from Nagoya VORTAC.

See: AD1.1.6.5

# **RJNA AD 2.22 FLIGHT PROCEDURES**

### 1. TAKE OFF MINIMA

R	RWY	ACFT CAT	REDL & RCLL		REDL or RCLL or RCL Marking		NIL (DAYTIME ONLY)		
		OAI	RVR	VIS	RVR	VIS	RVR	VIS	
Multi-Engine ACFT with TKOF ALTN AP FILED	16	A, B, C, D	400m 40	400m	400m	400m		500m	
	34			400111					
OTHER	16	A, B, C, D		AVRL LDG MINIMA					
OTTIER	34	Λ, Β, Ο, Β		AVBL LDG MINIMA					

### 2. WX MINIMA CONCERNING PAR/ASR APCH PROCEDURE

#### PAR RWY 16

		34

MINIM	MINIMA THR E		LEV:52 AD ELEV: 46	
	PA	PAR		LING
CAT	DA(H)	RVR/ CMV	MDA(H)	VIS
Α	252(200)		680(634)	1600
В		750	000(034)	1000
С		750	860(814)	2400
D			000(814)	3200

MINIM	A THRE	THR ELEV:50		3
	PA	PAR		LING
CAT	DA(H)	RVR/ CMV	MDA(H)	VIS
Α			680(634)	1600
В	252(202)	700	000(034)	1000
С	252(202)	700	860(814)	2400
D			800(814)	3200

### ASR RWY 16

### ASR RWY 34

MINIMA THR ELEV:52		AD ELEV: 46		
			CIRC	LING
CAT	MDA(H)	RVR/ CMV	MDA(H)	VIS
Α	680(634)	1400	C00(C2.4)	1600
В		1500	680(634)	1600
С		1600	860(814)	2400
D		1800	800(814)	3200

MINIMA THR ELEV:50			AD ELEV: 46		
			CIRCLING		
CAT	MDA(H)	RVR/ CMV	MDA(H)	VIS	
Α		1400	680(634)	1600	
В	540(494)	1500	000(034)	1000	
С		1600	860(814)	2400	
D		1800	000(814)	3200	

#### 3. Lost communication procedures for arrival aircraft under radar navigational guidance

If radio communications with Centrair Approach/Radar or NAGOYA GCA are lost for 1 minute, or 5 seconds(PAR)/15 seconds(ASR) on final approach, squawk Mode A/3 Code 7600 and;

- 1. Contact Nagoya Tower.
  - 2. If unable, proceed in accordance with Visual Flight Rules.
  - 3. If unable,
    - a) Proceed to Nagoya VORTAC at last assigned altitude or 3,000FT whichever is higher and execute Instrument Approach.
    - b) Proceed to SHATI via Nagoya VORTAC at last assigned altitude or 5,000FT whichever is higher and execute TACAN A Approach.
- Procedures other than above will be issued when situation required.

#### 4. Automated Radar Terminal System(ARTS)

セントレアアプローチの指示のもとに、中部進入管制区を飛 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、管制官に対し、その 旨通報すること。

Aircraft flying under control of "Centrair Approach" in the Chubu approach control area will be instructed to reply with discrete code on Mode A/3 and Mode C.

If an aircraft with non-discrete code capability be instructed to reply with the discrete code, it shall report a controller accordingly.

5. PAR 進入 滑走路 16/34

グライドパス 3.0°

5. PAR RWY16/34

Glide path 3.0°

6. 場周経路を飛行する際の高度

場周経路を飛行する際の高度は以下のとおり。

(1) 固定翼航空機

1) ジェット 2,000 フィート

2) プロペラ

単発機

1,000 フィート 多発機 1,200 フィート(4発機を除く。)

4 発機 1.500 フィート

800 フィート

(2) 回転翼航空機

6. Altitude at Traffic Pattern as follows

Traffic Pattern Altitude as follows.

(1) Fixed aircraft

2,000ft a)Jet

b)Propeller

Single engine 1,000ft

1,200ft(except 4 engines) Multi engine

4 engines 1,500ft (2) Rotor craft 800ft

### **RJNA AD 2.23 ADDITIONAL INFORMATION**

- 1. Extensive military jet aircraft and military rescue helicopter activities in NAGOYA and GIFU CTZ.
- 1. 名古屋及び岐阜管制圏内で、軍用ジェット機及び軍用救難へリコプターが大規模に活動している。
- 2.Building(See below chart) 建築物

建築物 / Building

建築物

1.位置: 35°12′58"/136°54′47"(名古屋空港標点から南4.4km)

- See LDG CHART

2.高さ: 552FT (168m) MSL 525FT (160m) AGL

3.備考:中光度及び低光度航空障害灯が下図のとおり設置されている。

Building

1.Position: 35°12'58"/136°54'47" (4.4km S from NAGOYA ARP)

-See LDG CHART

2.Height: 552FT (168m) MSL

525FT (160m) AGL

3.Remarks : Medium-intensity and low-intensity obstacle lights are installed on

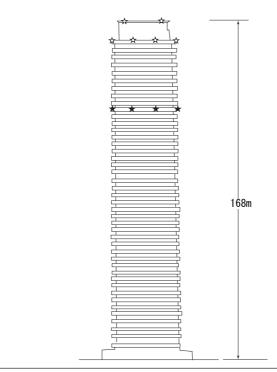
this tower as shown in below figure.

☆中光度航空障害灯

Medium-intensity obstacle lights

▲ 低光度航空障害灯

Low-intensity obstacle lights



#### **RJNA AD 2.24 CHARTS RELATED TO AN AERODROME**

Aerodrome/Heliport Chart

Aircraft Parking/Docking Chart

Standard Departure Chart - Instrument (IBUKI)

Standard Departure Chart - Instrument (HOUBA)

Standard Departure Chart - Instrument (MORIZ)

Standard Departure Chart - Instrument (NAGOYA)

Standard Departure Chart - Instrument (TALMI)

Standard Departure Chart - Instrument (TRANSITION-RNAV)

Standard Arrival Chart - Instrument (EXPOH)

Standard Arrival Chart - Instrument (ORIBE EAST/SOUTH, SHINO-RNAV)

Instrument Approach Chart (ILS Z or LOC Z RWY34)

Instrument Approach Chart (ILS Y or LOC Y RWY34)

Instrument Approach Chart (VOR RWY34)

Instrument Approach Chart (VOR A)

Instrument Approach Chart (TACAN A)

Instrument Approach Chart (RNP RWY16)

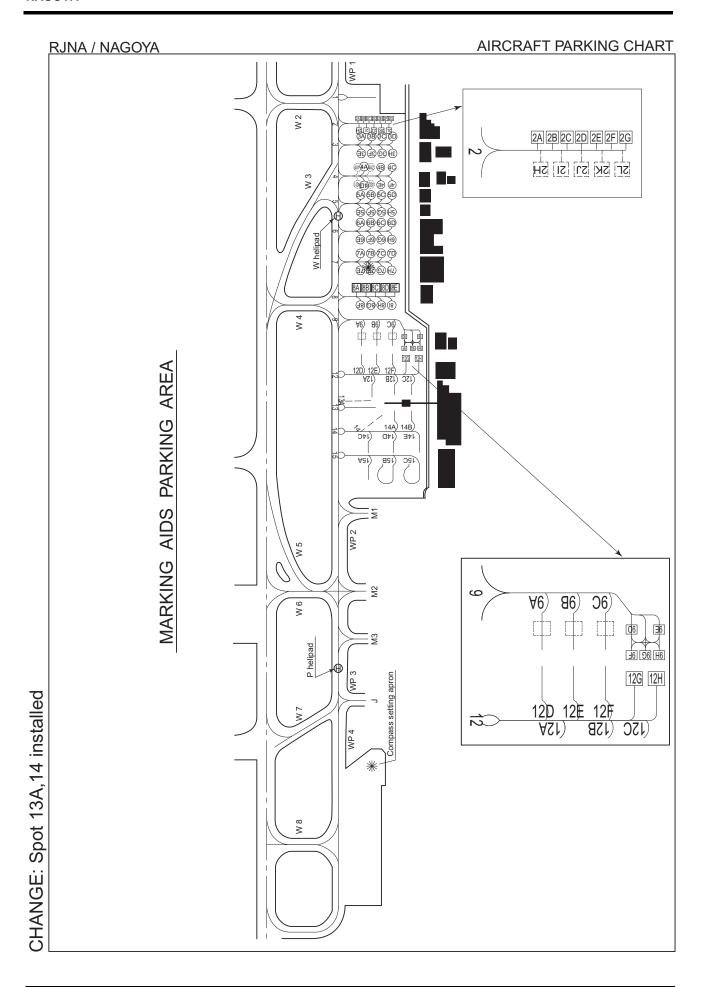
Other Chart (Visual REP)

Other Chart (LDG CHART)

Other Chart (MVA CHART)







CHANGE: ADGUN TRANSITION, OHNNO TRANSITION established, OTSU TRANSITION, KOMATSU TRANSITION abolished

#### STANDARD DEPARTURE CHART -INSTRUMENT

### RJNA / NAGOYA

SID and TRANSITION

# IBUKI FOUR DEPARTURE

RWY16: Climb RWY HDG to KCC 3.5DME, turn right HDG004°...

RWY34: Climb RWY HDG to 700FT, turn left within 4NM from RWY end/KCC 4.0DME,...

...to intercept and proceed via KCC R319 to IBUKI.

Cross IBUKI at or above 11000FT.

Note RWY16: 5.0% climb gradient required up to 700FT.

OBST ALT 551FT located at 1.9NM 215° FM end of RWY16.

RWY34: 5.0% climb gradient required up to 700FT.

# ADGUN TRANSITION

From over IBUKI, via KCC 29.5DME counterclockwise ARC to intercept and proceed via KCC R262 to ADGUN.

Note: This TRANSITION is for TACAN equipped aircraft only.

# **OHNNO TRANSITION**

From over IBUKI, via KCC 29.5DME clockwise ARC to intercept and proceed via KCC R348 to OHNNO.

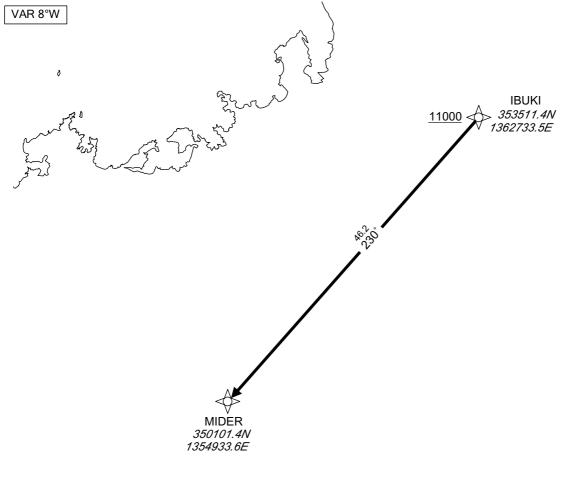
Cross KCC R336 at or above FL150.

Note: This TRANSITION is for TACAN equipped aircraft only.



RJNA / NAGOYA RNAV TRANSITION

MIDER TRANSITION			RNAV1
NOTE 1) DME/DME/IRU or GNSS required. 2) RADAR service required.	Critical DME	-	
	DME GAP	_	
2) NADAN Service required.	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1	



From IBUKI at or above 11000FT, to MIDER.

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	IBUKI	-	-	-7.9	-	-	+11000	-	-	RNAV1
002	TF	MIDER	-	230 (222.4)	-7.9	46.2	-	-	ı	-	RNAV1

RJNA / NAGOYA RNAV TRANSITION RNAV1 KOMAZ TRANSITION Critical DME NOTE 1) DME/DME/IRU or GNSS required. DME GAP 2) RADAR service required. Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 VAR 8°W **VORTAC** KOMATSU 112.0 KMC CH-57X ΞΞ 36°23′47″N/136°24′15″E KOMATSU(KMC) 362347.3N 1362415.3E **HACHI** FL150 *354704.2*N 1364057.0E

From IBUKI at or above 11000FT, to HACHI at or above FL150, to KMC.

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	IBUKI	-	-	-7.9	-	-	+11000	-	-	RNAV1
002	TF	HACHI	-	050 (042.4)	-7.9	16.1	-	+FL150	-	-	RNAV1
003	TF	KMC	-	348 (339.9)	-7.9	39.1	-	-	-	-	RNAV1

11000

IBUKI *353511.4N 1362733.5E* 

RJNA / NAGOYA SID

# HOUBA FOUR DEPARTURE

RWY16: Climb RWY HDG to 600FT, turn left HDG349°...

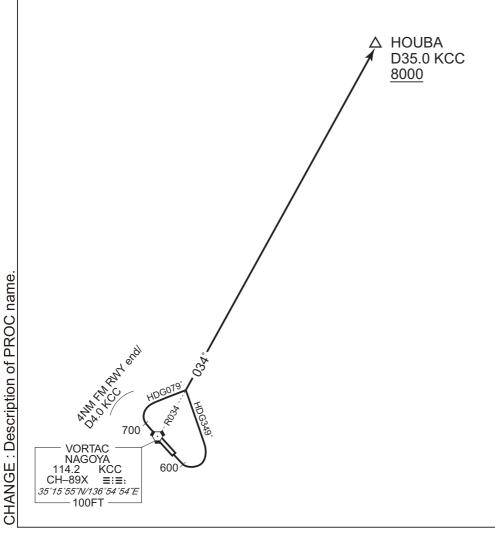
RWY34: Climb RWY HDG to 700FT, turn right within 4NM from RWY end/

KCC 4.0DME, via HDG079°...

...to intercept and proceed via KCC R034 to HOUBA.

Cross HOUBA at or above 8000FT.

Note RWY16: 5.0% climb gradient required up to 600FT.



RJNA / NAGOYA **TRANSITION KROBE TRANSITION** From over HOUBA, via KCC R034 to KROBE via STRAW. Cross STRAW at or above FL200. **NIIGATA TRANSITION** From over HOUBA, via KCC R034 to KROBE via STRAW, via GTC R228(MRA FL220 for using TACAN only) to GTC VORTAC. Cross STRAW at or above FL200. VORTAC **NIIGATA** 115.5 GTC CH-102X **E.** 37°57′30″N/139°06′54″E NIIGATA TRANSITION For NIIGATA TRANSITION GTC MRA FL220 (for using TACAN only) KROBE A D86.2 KCC D108.2 GTC KROBE TRANSITION **STRAW** D56.9 KCC **HOUBA** 8000 D35.0 KCC CHANGE: MRA for using GTC TACAN added **VORTAC NAGOYA** 114.2 KCC CH-89X =:=: 35°15′55″N/136°54′54″E 100F,T

RJNA / NAGOYA SID

# MORIZ FIVE DEPARTURE

RWY16: Climb RWY HDG to 600FT, turn left,...

RWY34: Climb RWY HDG to 700FT, turn right within 4NM from RWY end/KCC

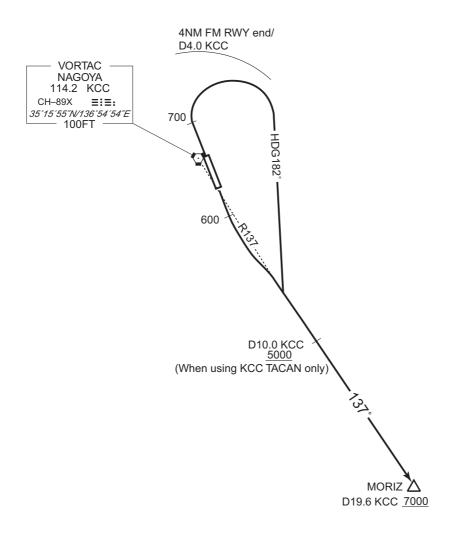
4.0DME, via HDG182° to intercept and proceed...

...via KCC R137 to MORIZ.

(Cross KCC R137/10.0DME at or above 5000FT when using KCC TACAN only.)

Cross MORIZ at or above 7000FT.

Note RWY16: 5.0% climb gradient required up to 600FT.



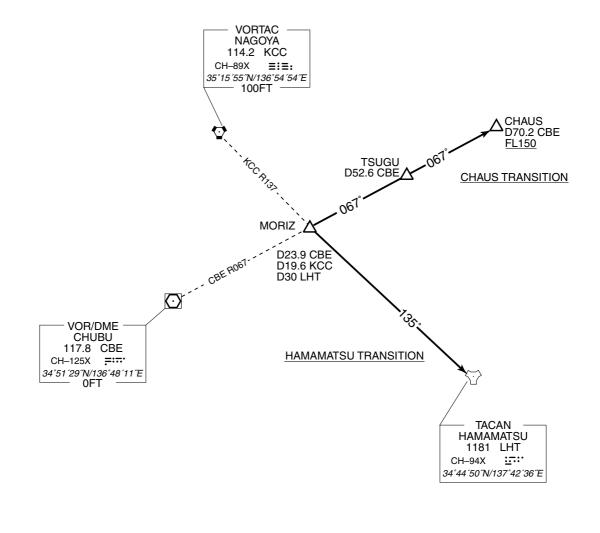
RJNA / NAGOYA TRANSITION

# HAMAMATSU TRANSITION

From over MORIZ, via LHT R315 to LHT TACAN.

### **CHAUS TRANSITION**

From over MORIZ, via CBE R067 to CHAUS via TSUGU. Cross CHAUS at or above FL150.

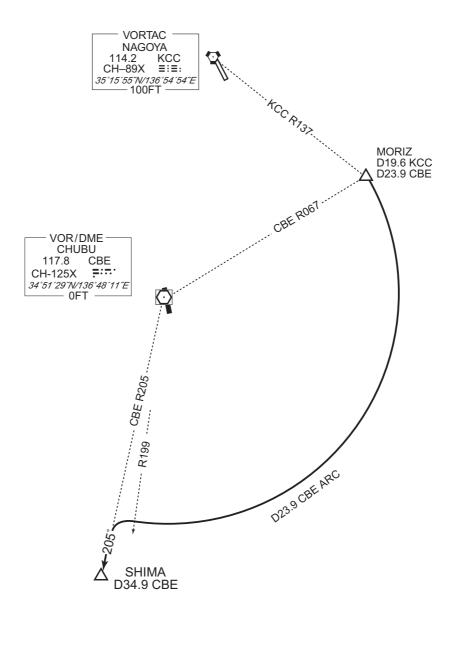


RJNA / NAGOYA TRANSITION **ALPUS TRANSITION** From over MORIZ, via CBE R067 to MUGEN via TSUGU, via KCC R088 to ALPUS. Cross MUGEN at or above FL150. VORTAC **NAGOYA** 114.2 KCC CH-89X ≡:≡: ALPUS 35°15′55″N/136°54′54″E D68.6 KCC KCC R088 MUGEN D65.8 CBE D52.0 KCC TSUGU <u>FL150</u> D52.6 CBE MORIZ D23.9 CBE D19.6 KCC VOR/DME = CHUBU 117.8 CBE CH-125X **;:::**: 34°51′29″N/136°48′11″E 0FT CHANGE: Description of PROC name.

RJNA / NAGOYA TRANSITION

# SHIMA TRANSITION

From over MORIZ, via CBE 23.9DME clockwise ARC to intercept and proceed via CBE R205 to SHIMA.



CHANGE: Description of PROC name.

RJNA / NAGOYA SID

### NAGOYA EAST REVERSAL ONE DEPARTURE

RWY16: Climb RWY HDG to 600FT, turn left, direct to KCC VORTAC.

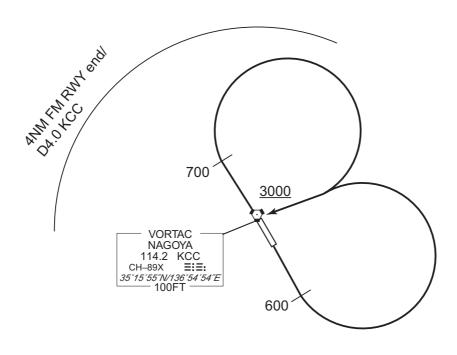
Cross KCC VORTAC at or above 3000FT.

RWY34: Climb RWY HDG to 700FT, turn right within 4NM from RWY end/KCC 4.0DME,

direct to KCC VORTAC.

Cross KCC VORTAC at or above 3000FT.

Note RWY16: 5.0% climb gradient required up to 600FT.



RJNA / NAGOYA SID

### NAGOYA WEST REVERSAL ONE DEPARTURE

RWY16: Climb RWY HDG to KCC 3.5DME, turn right, direct to KCC VORTAC.

Cross KCC VORTAC at or above 3000FT.

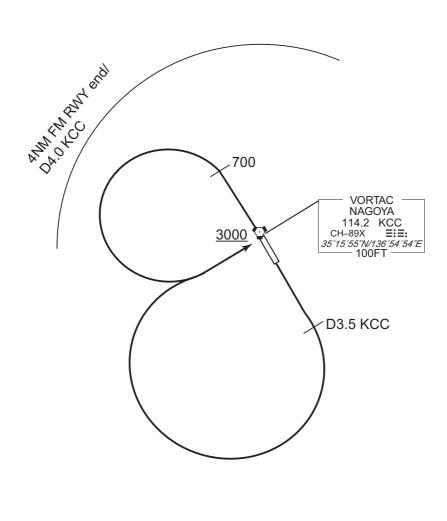
RWY34: Climb RWY HDG to 700FT, turn left within 4NM from RWY end/KCC 4.0DME,

direct to KCC VORTAC.

Cross KCC VORTAC at or above 3000FT.

Note RWY16: 5.0% climb gradient required up to 700FT.

OBST ALT 551FT located at 1.9NM 215° FM end of RWY16.



RJNA / NAGOYA SID

# TALMI FOUR DEPARTURE

RWY16: Climb RWY HDG to KCC 3.5DME, turn right HDG004°...

RWY34: Climb RWY HDG to 700FT, turn left within 4NM from RWY end/KCC

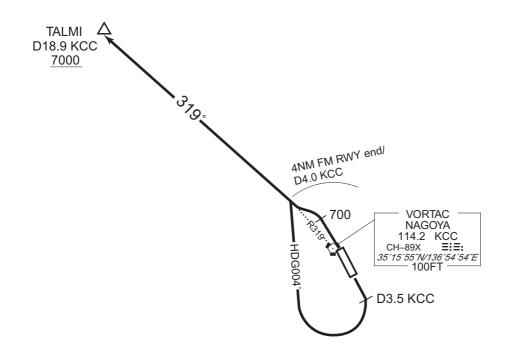
4.0DME,...

...to intercept and proceed via KCC R319 to TALMI.

Cross TALMI at or above 7000FT.

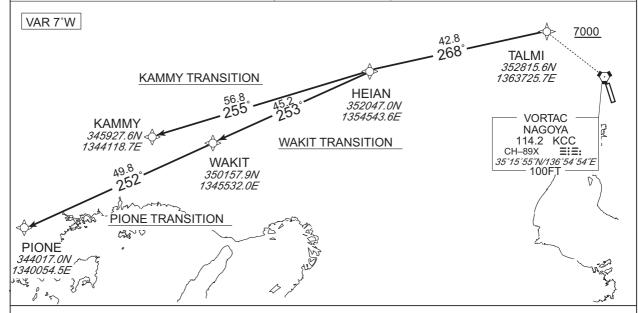
Note RWY16: 5.0% climb gradient required up to 700FT.

OBST ALT 551FT located at 1.9NM 215° FM end of RWY16.



RJNA / NAGOYA RNAV TRANSITION

PIONE TRANSITION / WAKIT TRANSITION / KAMMY TRANSITION RNAV 1									
Note 1) DME/DME/IRU or GNSS required.	Critical DME	TZT: 10.0NM to PION	NE - PIONE						
2 ) RADAR service required.	DME GAP	_							
	Inappropriate Navaids	See AD1.1.6.10.3. Inapp	ropriate NAVAIDs for RNAV1						



# PIONE TRANSITION

From TALMI at or above 7000FT, to HEIAN, to WAKIT, to PIONE.

Serial Number	Path Descriptor	Waypoint Identifier	, ,	Course °M(°T)	Magnetic Variation		Turn Direction		•		Navigation Specification
001	IF	TALMI		_	-7.3	_	_	+7000	_	_	RNAV1
002	TF	HEIAN		268 (260.2)	-7.3	42.8	_	_	_	_	RNAV1
003	TF	WAKIT	_	253 (245.6)	-7.3	45.2	_	_	_	_	RNAV1
004	TF	PIONE	_	252 (244.4)	-7.3	49.8	_	_	_	_	RNAV1

#### WAKIT TRANSITION

From TALMI at or above 7000FT, to HEIAN, to WAKIT.

Serial Number	Path Descriptor	Waypoint Identifier			Magnetic Variation		Turn Direction				Navigation Specification
001	IF	TALMI	_	_	-7.3	_	_	+7000	_	_	RNAV1
002	TF	HEIAN	_	268 (260.2)	-7.3	42.8	_	_	_	_	RNAV1
003	TF	WAKIT	_	253 (245.6)	-7.3	45.2	_	_	_	-	RNAV1

#### KAMMY TRANSITION

From TALMI at or above 7000FT, to HEIAN, to KAMMY.

Serial Number	Path Descriptor	Waypoint Identifier	,		Magnetic Variation		Turn Direction		•		Navigation Specification
001	IF	TALMI	_	_	-7.3	_	_	+7000	_	_	RNAV1
002	TF	HEIAN	_	268 (260.2)	-7.3	42.8	_	_	_	_	RNAV1
003	TF	KAMMY	_	255 (248.3)	-7.3	56.8	_	_	_	_	RNAV1



#### STANDARD ARRIVAL CHART -INSTRUMENT

RJNA / NAGOYA STAR

### EXPOH NORTH ARRIVAL

From over SWING, via KCC 18.4DME clockwise ARC to intercept and proceed via KCC R159 to EXPOH.

Cross KCC R151 at or above 3900FT, cross EXPOH at or above 2500FT.

# EXPOH SOUTH ARRIVAL

From over SHIMA, via CBE R205, via CBE 24.0DME counterclockwise ARC to intercept and proceed via KCC R159 to EXPOH.

Cross KCC R159/23.0DME at or above 5000FT, cross EXPOH at or above 2500FT.



#### STANDARD ARRIVAL CHART -INSTRUMENT

RJNA / NAGOYA **RNAV STAR** ORIBE EAST ARRIVAL RNAV1 SHINO ARRIVAL Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required. 17.9 6.6 VAR 8°W 278° 278°**-**♦ **ORIBE** SHINO SIMON **MAMLA** 353352.7N 352634.7N 353349.5N 353349.5N 353347.3N 1371617.4E 1372425.1E 1365417.1E 1364000.5E 6000 7000 9000 <u>510</u>0 1×6 065 **DOZAN GIFU AD** 351804.5N 1362530.1E ORIBE EAST ARRIVAL **TACAN GIFU** 992 GFT CH-31X <del>==</del>: <u>700</u>0 2065 35°23′30″N/136°51′30″E VORTAC **ADGUN** NAGOYA SHINO ARRIVAL 114.2 KCC CH–89X ≡:≡: 350344.7N 1360117.0E 35°15′55″N/136°54′54″E 100FT

#### ORIBE EAST ARRIVAL

From MAMLA, at or above 9000FT, to SIMON at or above 7000FT, to ORIBE at or above 6000FT.

Critical DME	GFT: 5.0NM to SIMON - 4.0NM to ORIBE YME: 4.0NM to ORIBE - ORIBE
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		Turn Direction	Altitude (FT)	Speed (KIAS)		Navigation Specification
001	IF	MAMLA	_	_	-7.7	_	_	+9000	-	_	RNAV1
002	TF	SIMON	_	278 (270.4)	-7.7	6.6	_	+7000	_	_	RNAV1
003	TF	ORIBE	_	278 (270.3)	-7.7	17.9	_	+6000	_	_	RNAV1

### SHINO ARRIVAL

From ADGUN, to DOZAN at or above 7000FT, to SHINO at or above 5100FT.

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		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	ADGUN	_	_	-7.7	_	_	_	_	_	RNAV1
002	TF	DOZAN	_	062 (054.0)	-7.7	24.5	_	+7000	_	_	RNAV1
003	TF	SHINO	_	062 (054.2)	-7.7	14.6	_	+5100	_	_	RNAV1

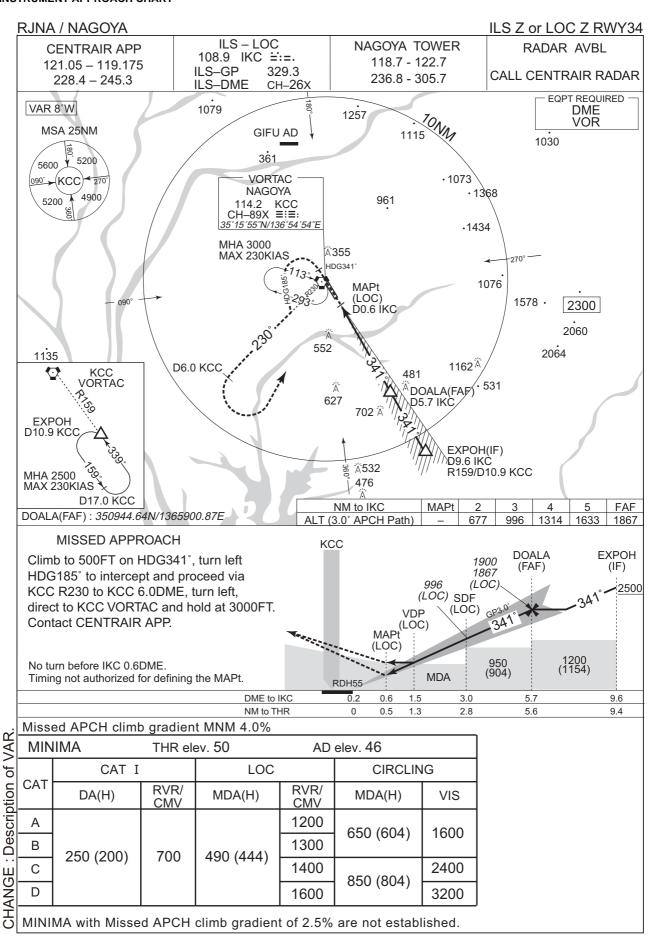
#### STANDARD ARRIVAL CHART -INSTRUMENT

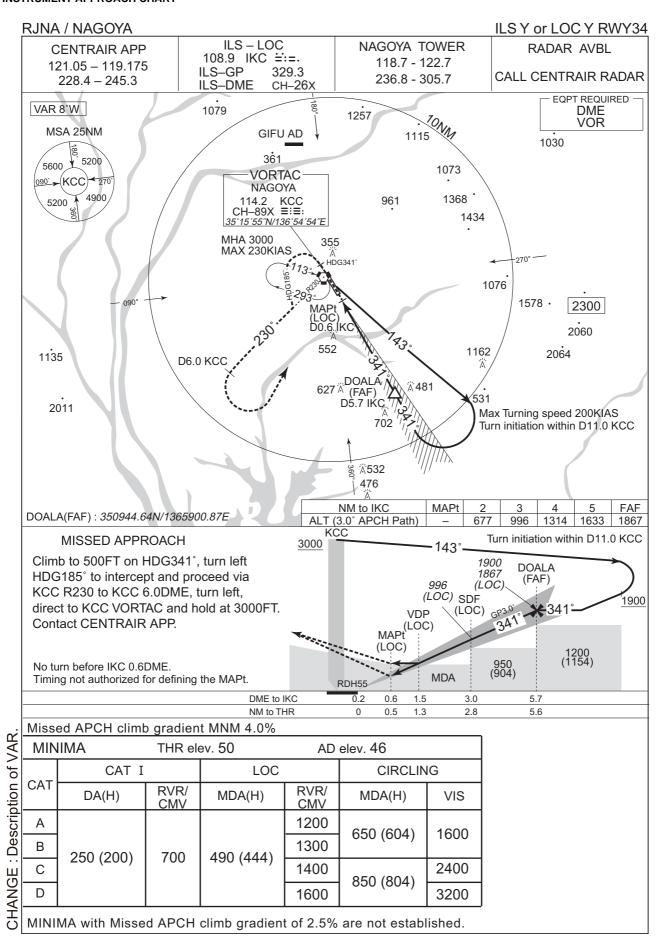
RJNA / NAGOYA **RNAV STAR** ORIBE SOUTH ARRIVAL RNAV1 Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required. **ORIBE** VAR 8°W 353352.7N 6000 1365417.1E TACAN GIFU 992 GFT CH-31X <del>□=</del> **GRIPP** GIFU AD 35°23′30″N/136°51′30″E 352233.4N 1370619.3E VORTAC **NAGOYA** 114.2 KCC CH-89X ≡:≡: 35°15′55″N/136°54′54″E 100FT **RYUDO** 350225.2N 1370152.7E € 00 VOR/DME **KOHWA** CHUBU 344216.7N 117.8 CBE 365728.6E <sup>~</sup> CH-125X **∓:** □ 8000 Using NAVAID 34°51′29″N/136°48′11″E - OFT KCC VORTAC NOT TO SCALE 10kg g **TACAN** KOWA 1169 XMT I–82X **≡**≌− CH-82X D21.0 KCC **RYUDO** 34°42′17″N/136°57′27″E 300FT D14.7 KCC SHIMA MHA 6000 MAX 230KIAS 341815.8N 1363519.2E

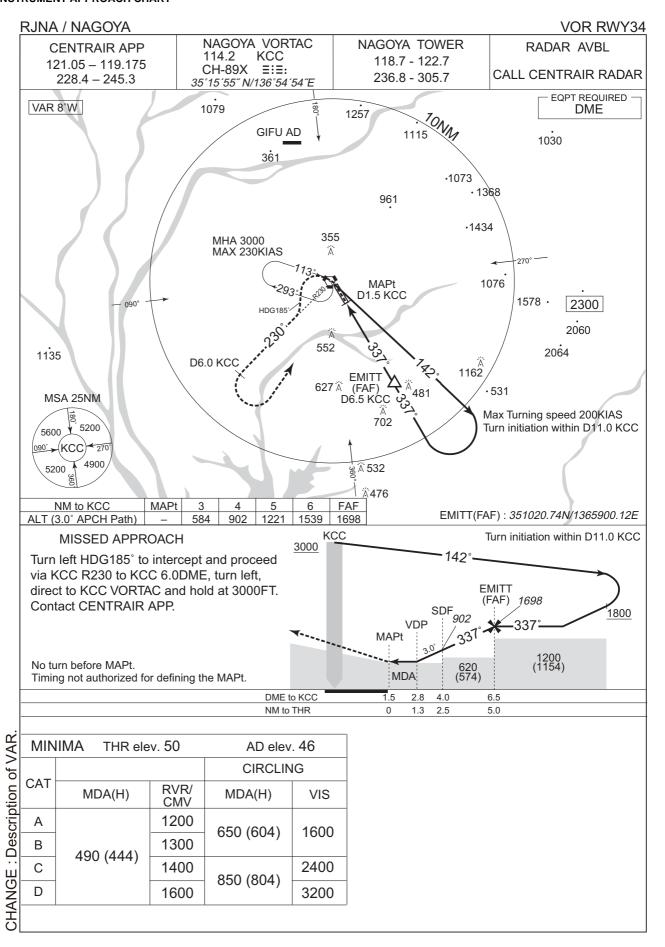
From SHIMA, to KOHWA at or above 8000FT, to RYUDO, to GRIPP, to ORIBE at or above 6000FT.

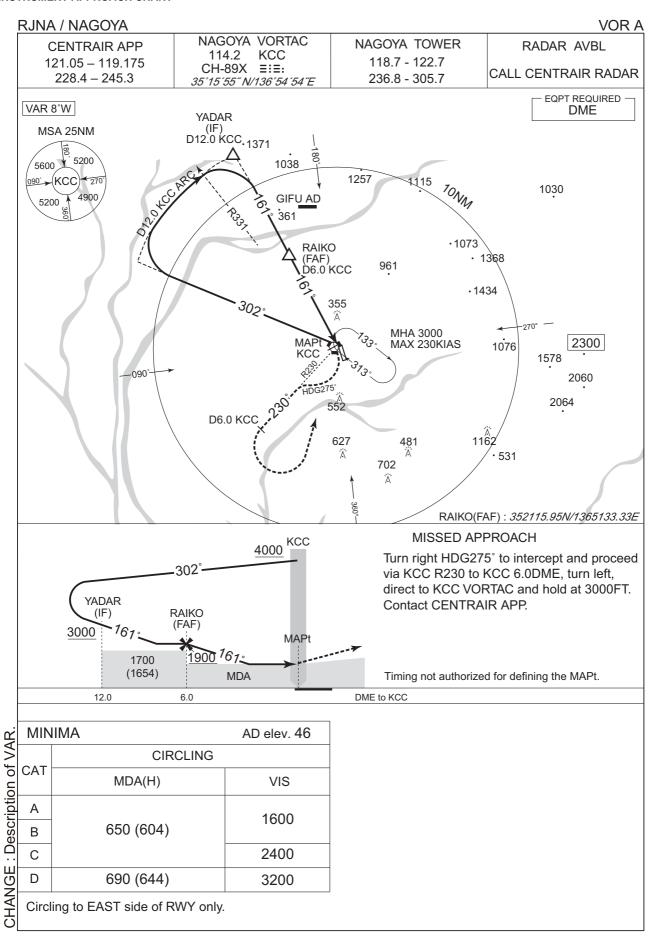
Critical DME	GFT: 11.0NM to ORIBE - 6.0NM to ORIBE YME: 2.0NM to ORIBE - ORIBE
DME GAP	3.0NM to ORIBE - 2.0NM to ORIBE
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

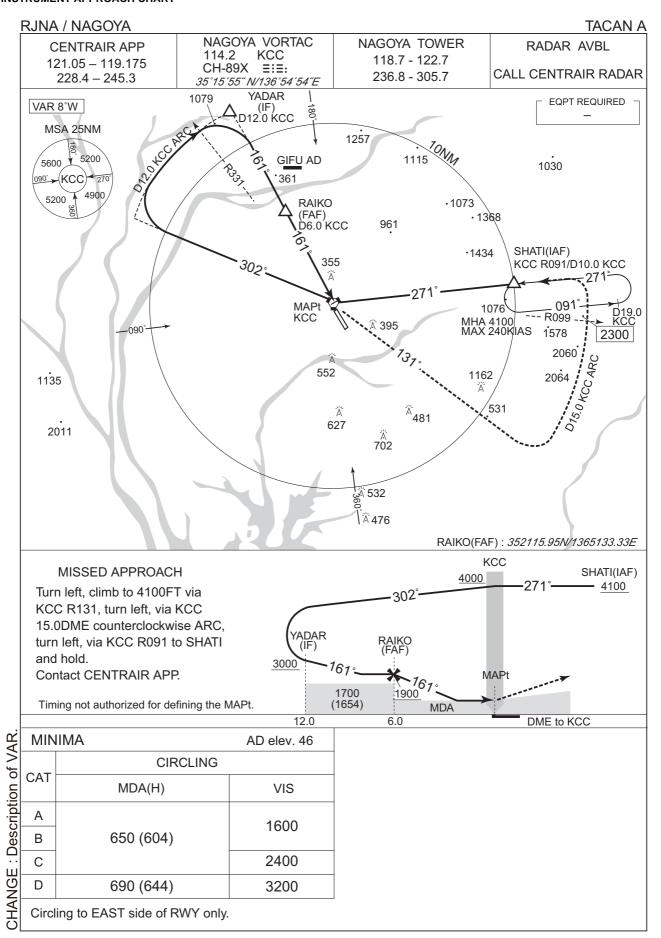
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	SHIMA	_	_	-7.9	_	_	_	_	_	RNAV1
002	TF	KOHWA	_	045 (037.1)	-7.9	30.2	-	+8000	_	_	RNAV1
003	TF	RYUDO	_	018 (010.1)	-7.9	20.5	-	_	-	_	RNAV1
004	TF	GRIPP	_	018 (010.2)	-7.9	20.5	_	_	_	_	RNAV1
005	TF	ORIBE	_	327 (319.2)	-7.9	15.0	_	+6000	_	_	RNAV1

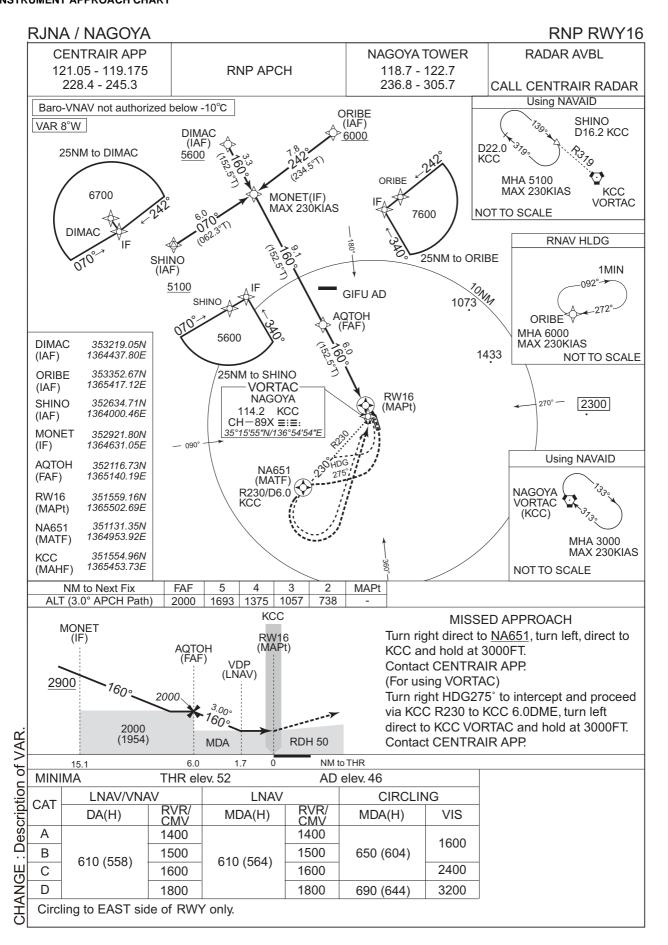


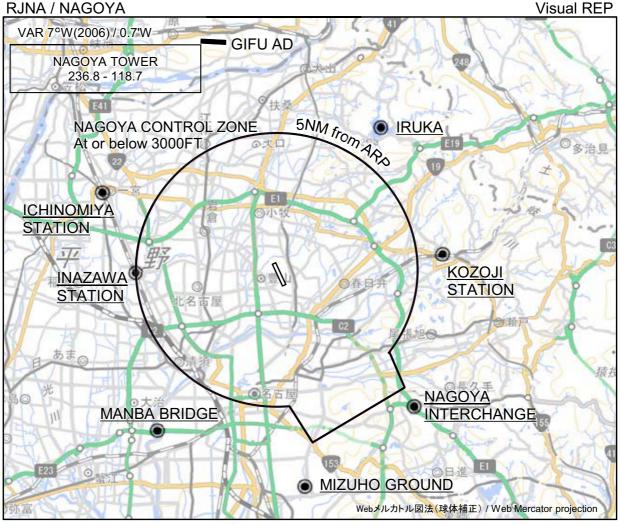












※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

	Call sign	BRG / DIST from ARP	Remarks
: Map updated. BRG/DIST from ARP.	高蔵寺ステーション Kozoji Station	085°T / 5.9NM	JR高蔵寺駅 Station
	入鹿 Iruka	035°T / 6.4NM	池 Pond
	一宮ステーション Ichinomiya Station	294°T / 6.8NM	JR尾張一宮駅 Station
	稲沢ステーション Inazawa Station	269°T / 5.1NM	JR稲沢駅 Station
	万場大橋 Manba Bridge	216°T / 7.3NM	庄内川と名古屋高速道路5号万場線との交点 Bridge
	*名古屋インターチェンジ *Nagoya Interchange	136°T / 7.0NM	東名高速道路のインターチェンジ Interchange
	*瑞穂グラウンド *Mizuho Ground	173°T / 8.0NM	総合陸上競技場 Ground
CHANGE : Map	注:*は特別管制空域に係る飛行の許可及び指示を受けるため、また、その他必要に応じて 当該空域に係る位置通報等に供される目視位置通報点である。 Note: The asterisk (*) indicates the visual reporting point where a pilot is to request ATC clearance regarding to PCA and to make position report as required.		



