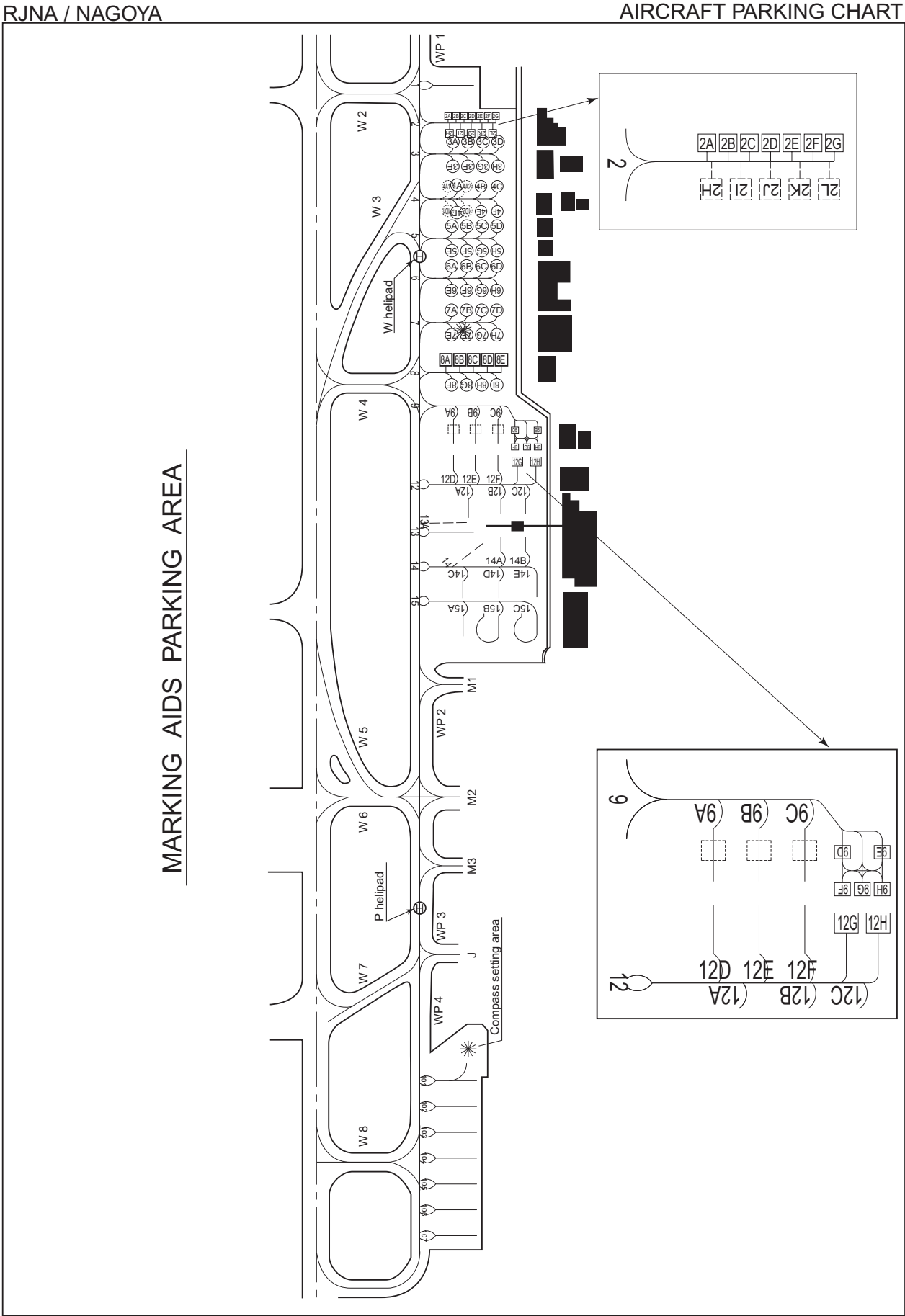


AD CHART

MARKING AIDS



CHANGE: Spot 101-107 added.



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.

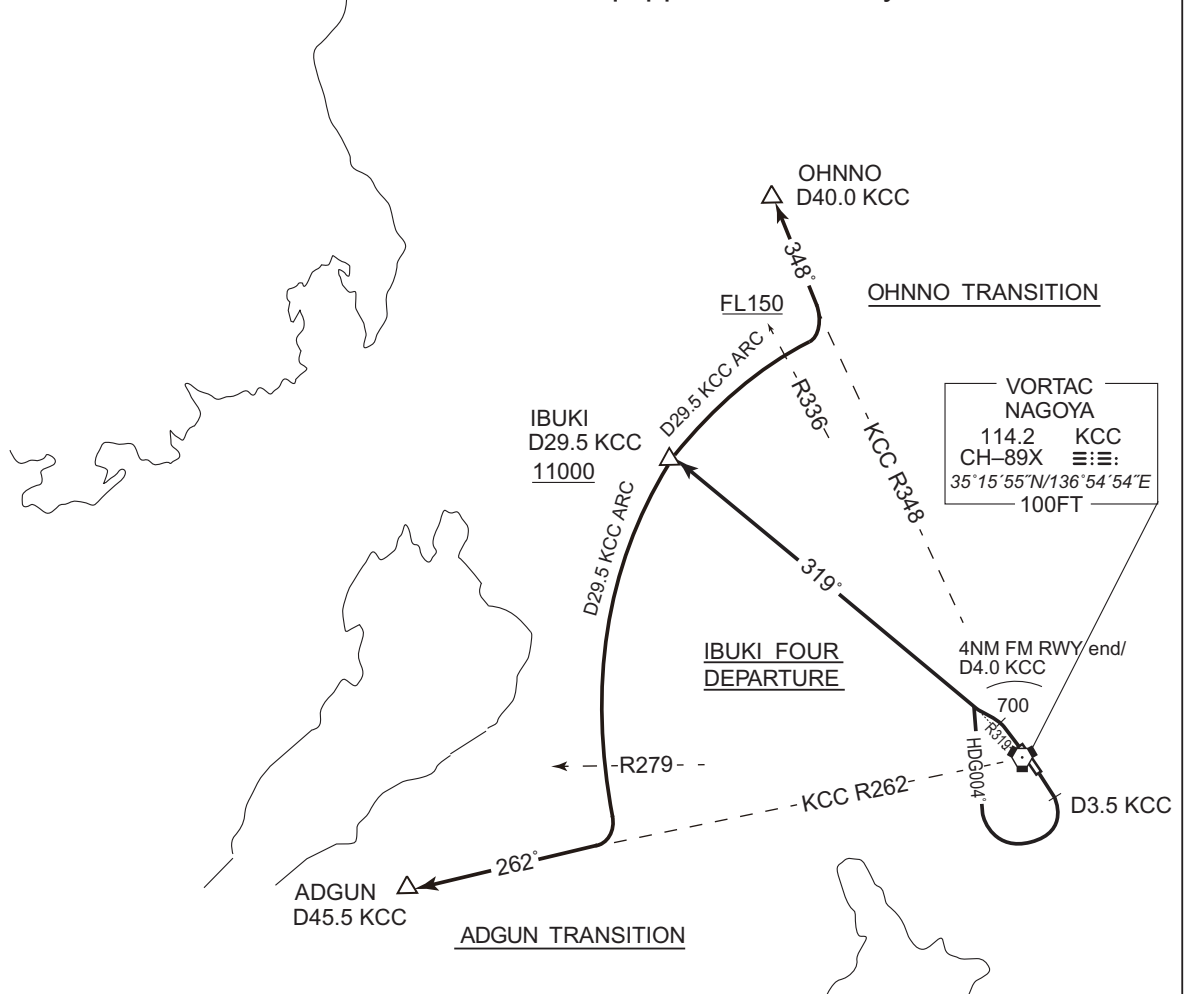
OHNNO TRANSITION

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.

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



STANDARD DEPARTURE CHART -INSTRUMENT

RJNA / NAGOYA

RNAV TRANSITION

MIDER 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	



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	-	-	-	-	RNAV1

CHANGE : Description of VAR and PROC name.

STANDARD DEPARTURE CHART -INSTRUMENT



STANDARD DEPARTURE CHART -INSTRUMENT

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.

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

△ HOUBA
D35.0 KCC
8000

CHANGE : Description of PROC name.

STANDARD DEPARTURE CHART -INSTRUMENT

RJNA / NAGOYA

TRANSITION

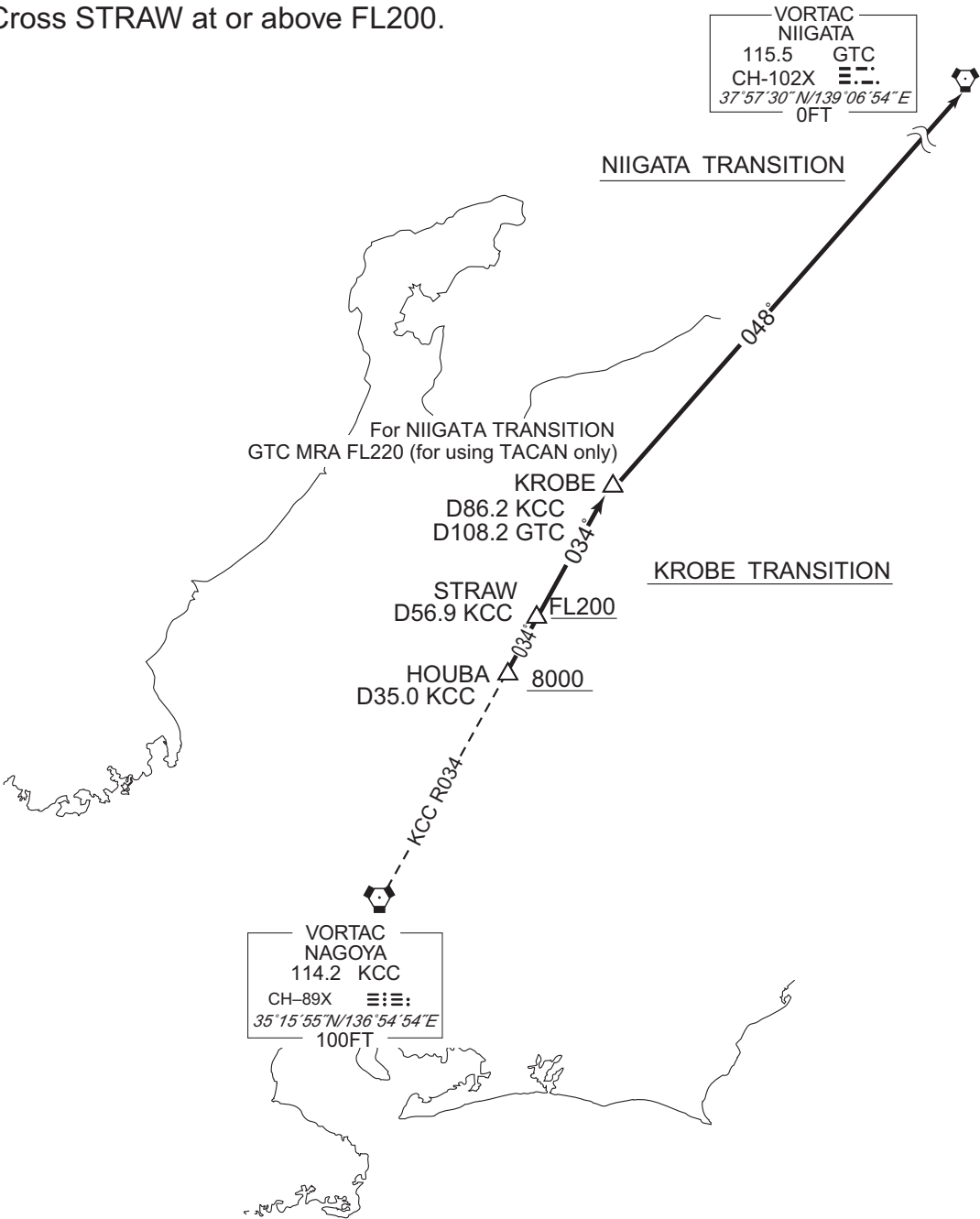
KROBE TRANSITION

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.

CHANGE : MRA for using GTC TACAN added.



STANDARD DEPARTURE CHART -INSTRUMENT

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.

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



CHANGE : Description of PROC name.

STANDARD DEPARTURE CHART -INSTRUMENT

RJNA / NAGOYA

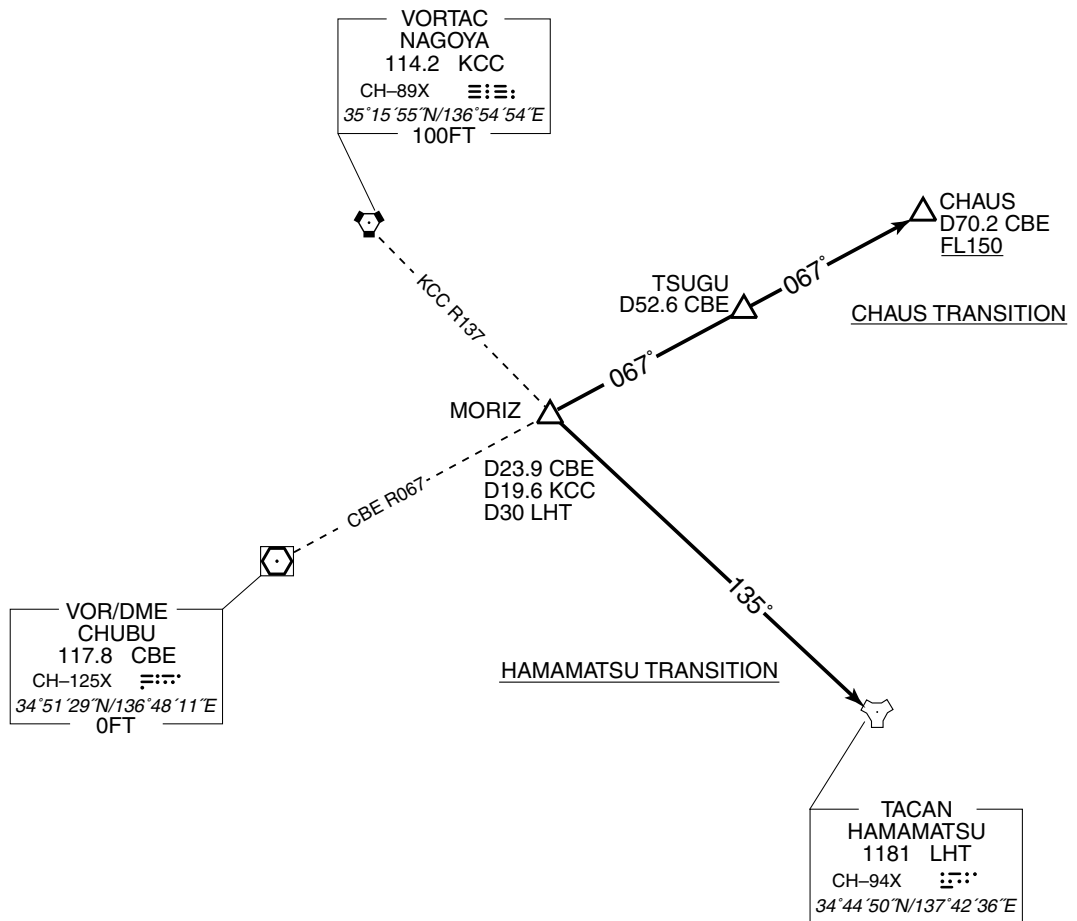
TRANSITION

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.



STANDARD DEPARTURE CHART -INSTRUMENT

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.



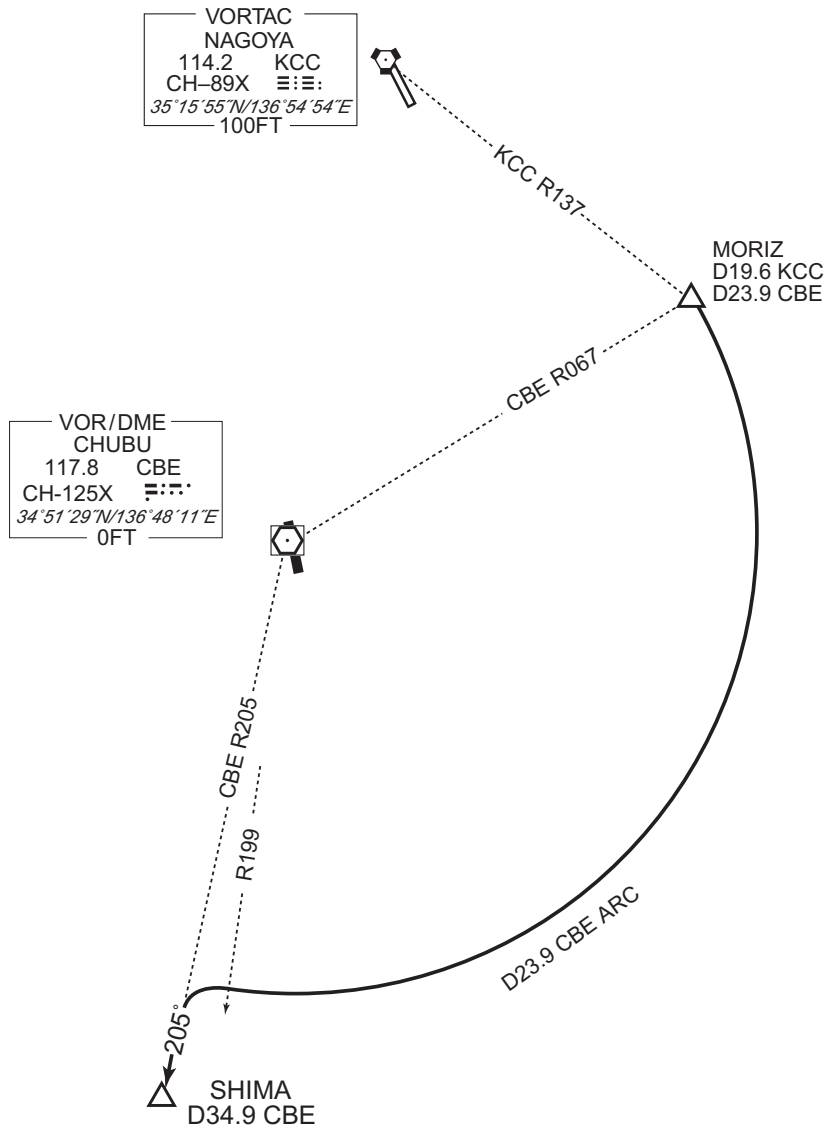
CHANGE : Description of PROC name.

STANDARD DEPARTURE CHART -INSTRUMENT

RJNA / NAGOYATRANSITION

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.

STANDARD DEPARTURE CHART -INSTRUMENT

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



CHANGE : Description of PROC name.

STANDARD DEPARTURE CHART -INSTRUMENT

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



CHANGE : Description of PROC name.

STANDARD DEPARTURE CHART -INSTRUMENT

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.

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



CHANGE : Description of PROC name.

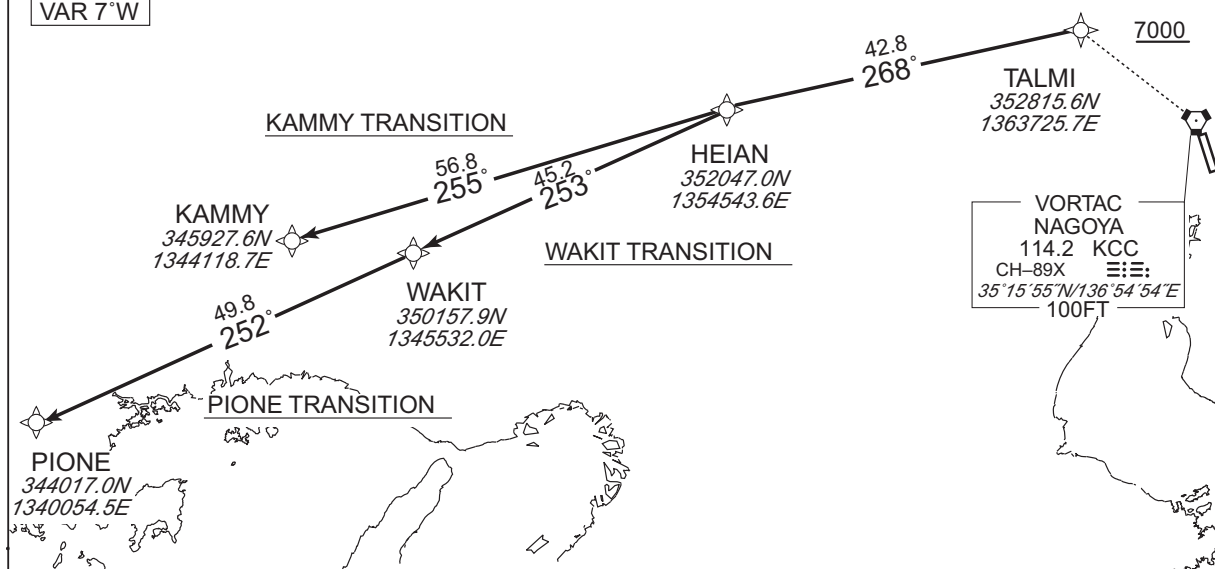
STANDARD DEPARTURE CHART -INSTRUMENT

RJNA / NAGOYA

RNAV TRANSITION

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

VAR 7°W

PIONE TRANSITION

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

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	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	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	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	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	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

CHANGE : Description of VAR.

INTENTIONALLY LEFT BLANK

STANDARD ARRIVAL CHART -INSTRUMENT

RJNA / NAGOYA

STAR

EXPOH NORTH ARRIVAL

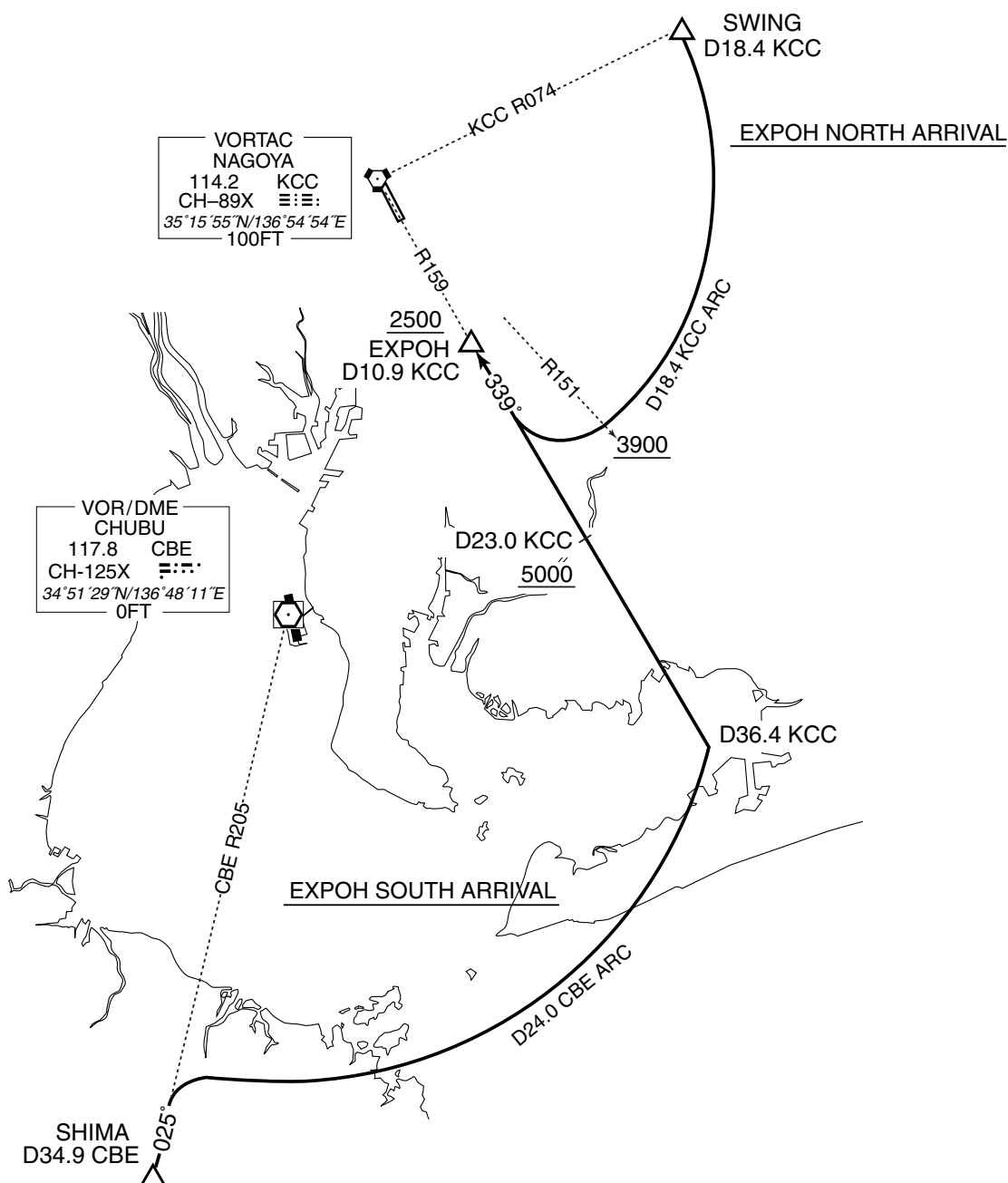
From over SWING, via KCC 18.4DME clockwise ARC to intercept and proceed via KCC R159 to EXPOH.

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

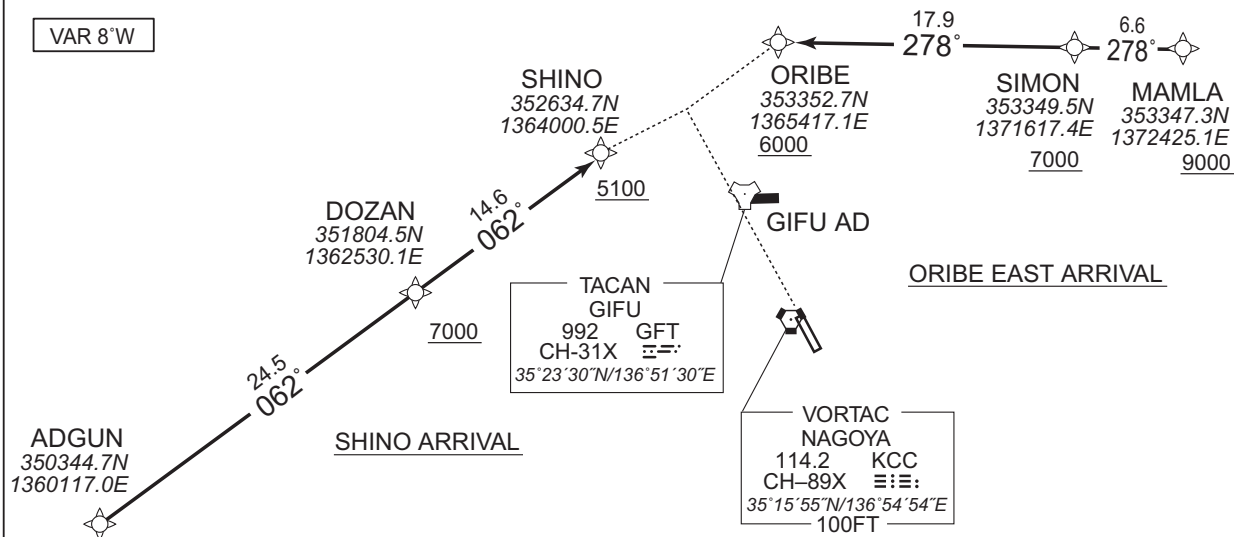
RJNA / NAGOYA

RNAV STAR

ORIBE EAST ARRIVAL
SHINO ARRIVAL

RNAV1

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

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	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	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	Distance (NM)	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

CHANGE : Description of VAR.

STANDARD ARRIVAL CHART -INSTRUMENT

RJNA / NAGOYA

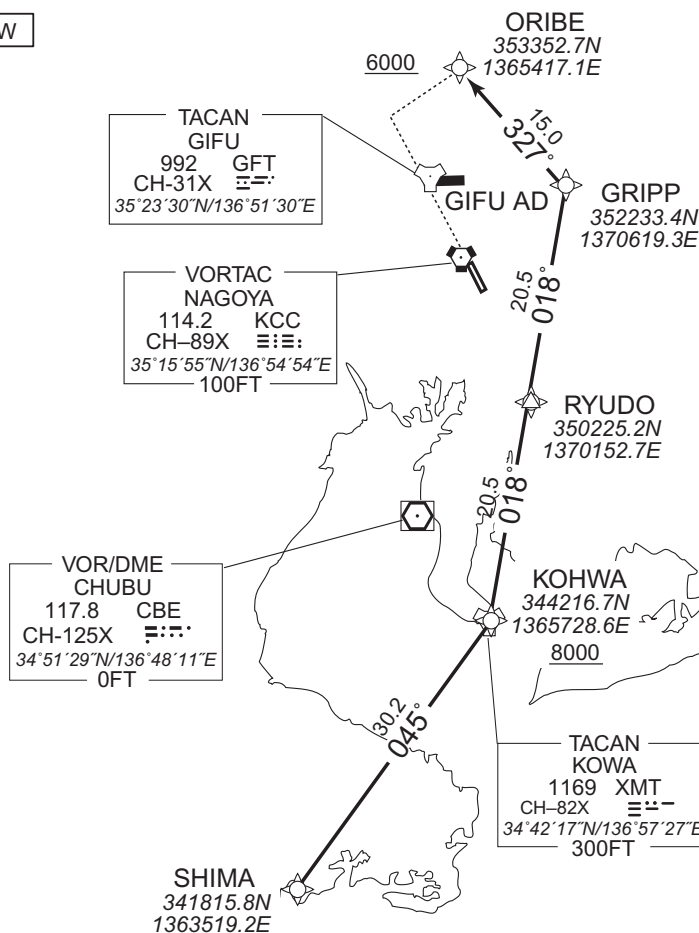
RNAV STAR

ORIBE SOUTH ARRIVAL

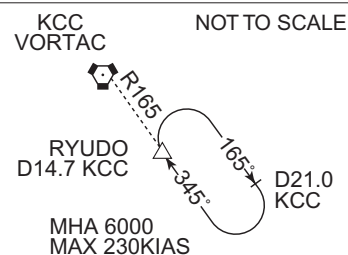
RNAV1

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

VAR 8°W



Using NAVAID



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

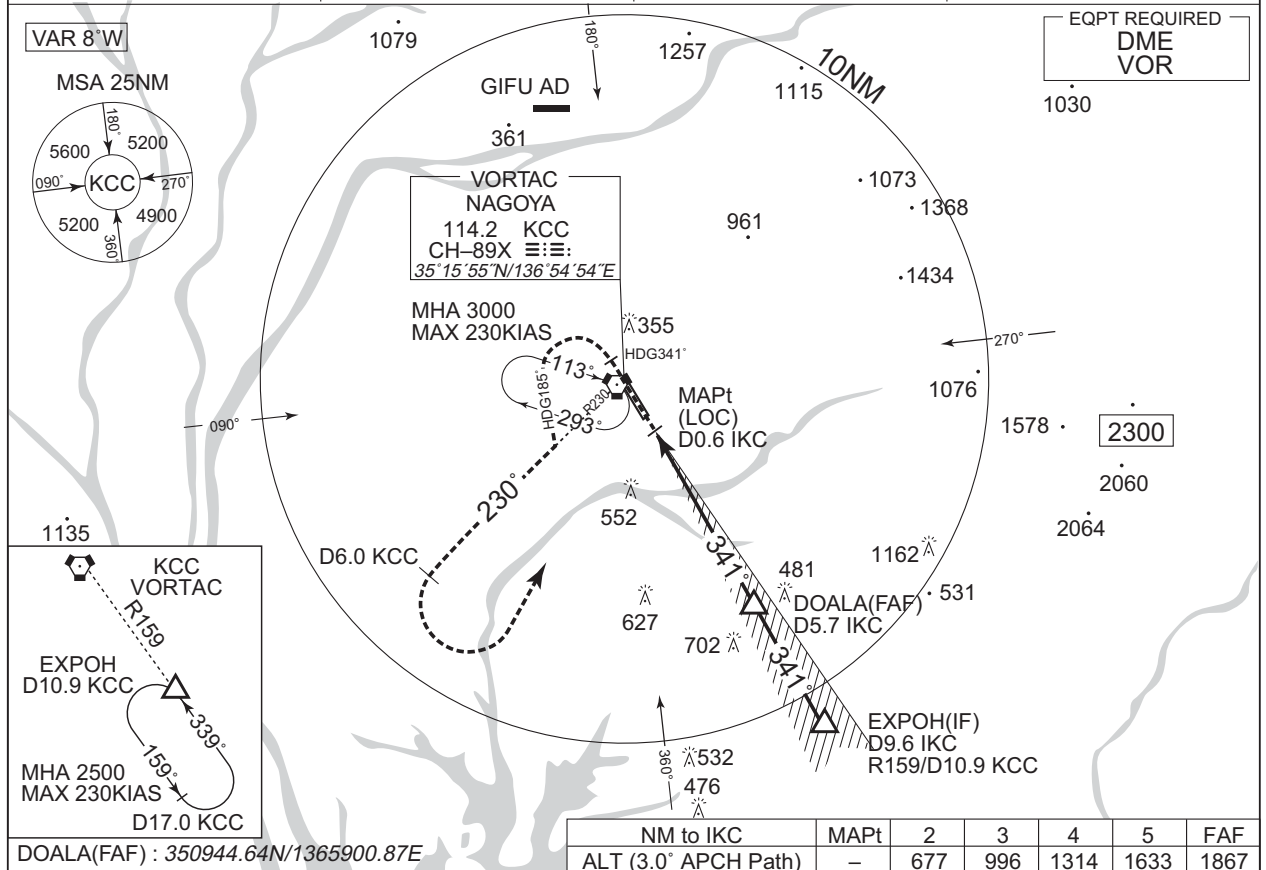
CHANGE : Description of VAR and PROC name.

INSTRUMENT APPROACH CHART

RJNA / NAGOYA

ILS Z or LOC Z RWY34

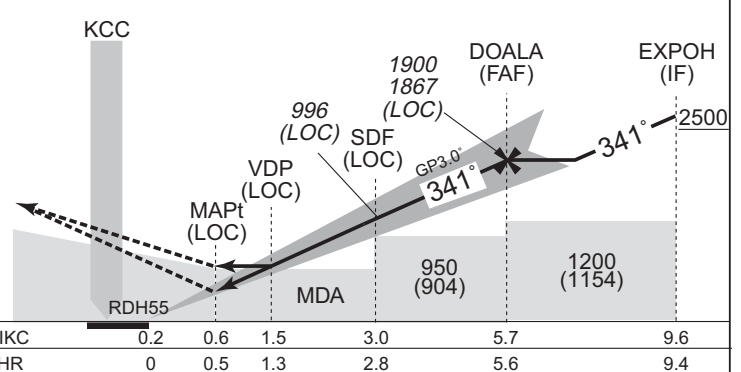
CENTRAIR APP 121.05 – 119.175 228.4 – 245.3	ILS – LOC 108.9 IKC ≡≡≡ ILS–GP 329.3 ILS–DME CH-26X	NAGOYA TOWER 118.7 - 122.7 236.8 - 305.7	RADAR AVBL CALL CENTRAIR RADAR
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MISSED APPROACH

Climb to 500FT on HDG341°, turn left HDG185° to intercept and proceed via KCC R230 to KCC 6.0DME, turn left, direct to KCC VORTAC and hold at 3000FT. Contact CENTRAIR APP.

No turn before IKC 0.6DME.
Timing not authorized for defining the MAPt.



Missed APCH climb gradient MNM 4.0%

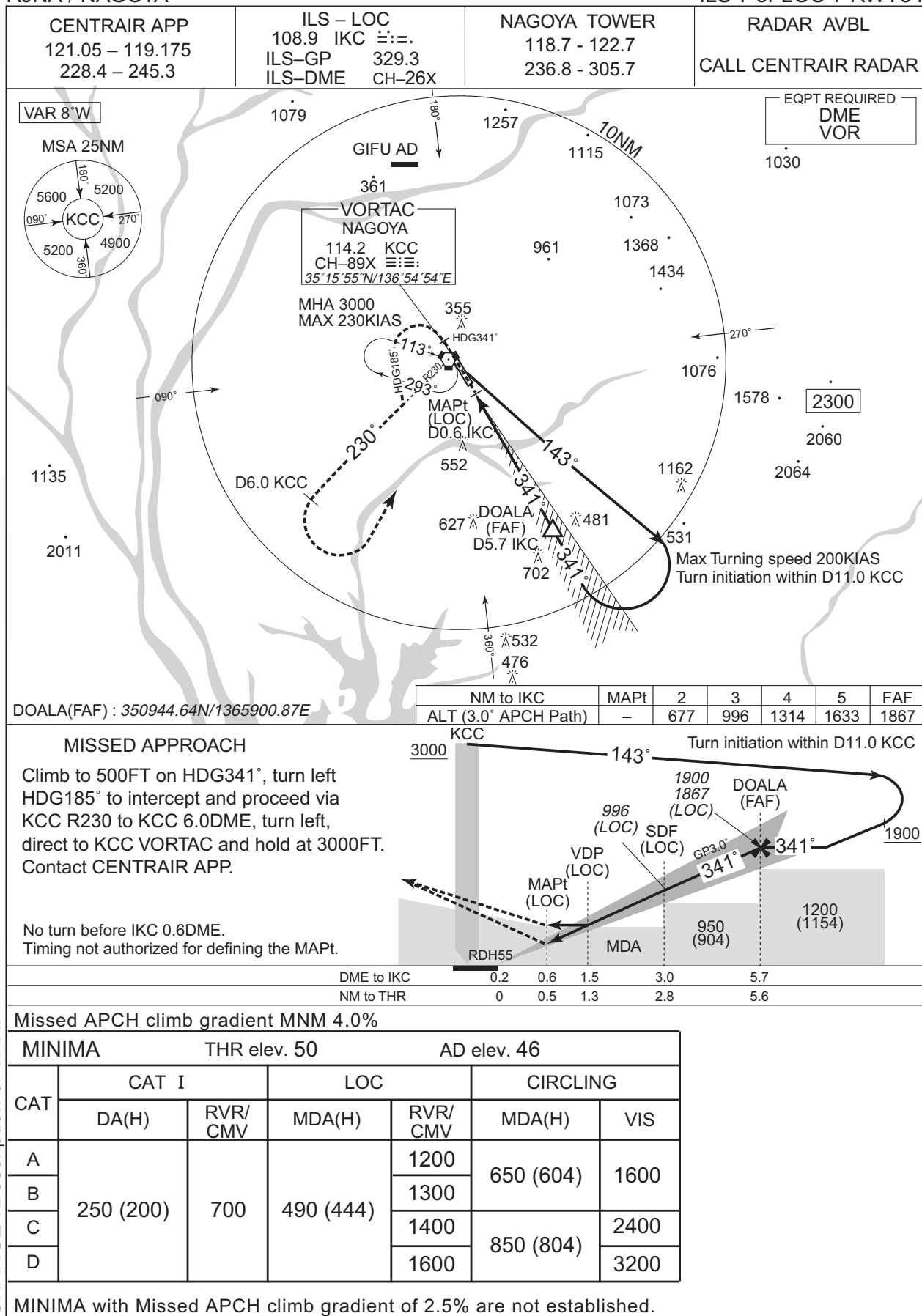
MINIMA		THR elev. 50		AD elev. 46		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	250 (200)	700	490 (444)	1200	650 (604)	1600
B				1300		
C				1400	850 (804)	2400
D				1600		3200

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

INSTRUMENT APPROACH CHART

RJNA / NAGOYA

ILS Y or LOC Y RWY34

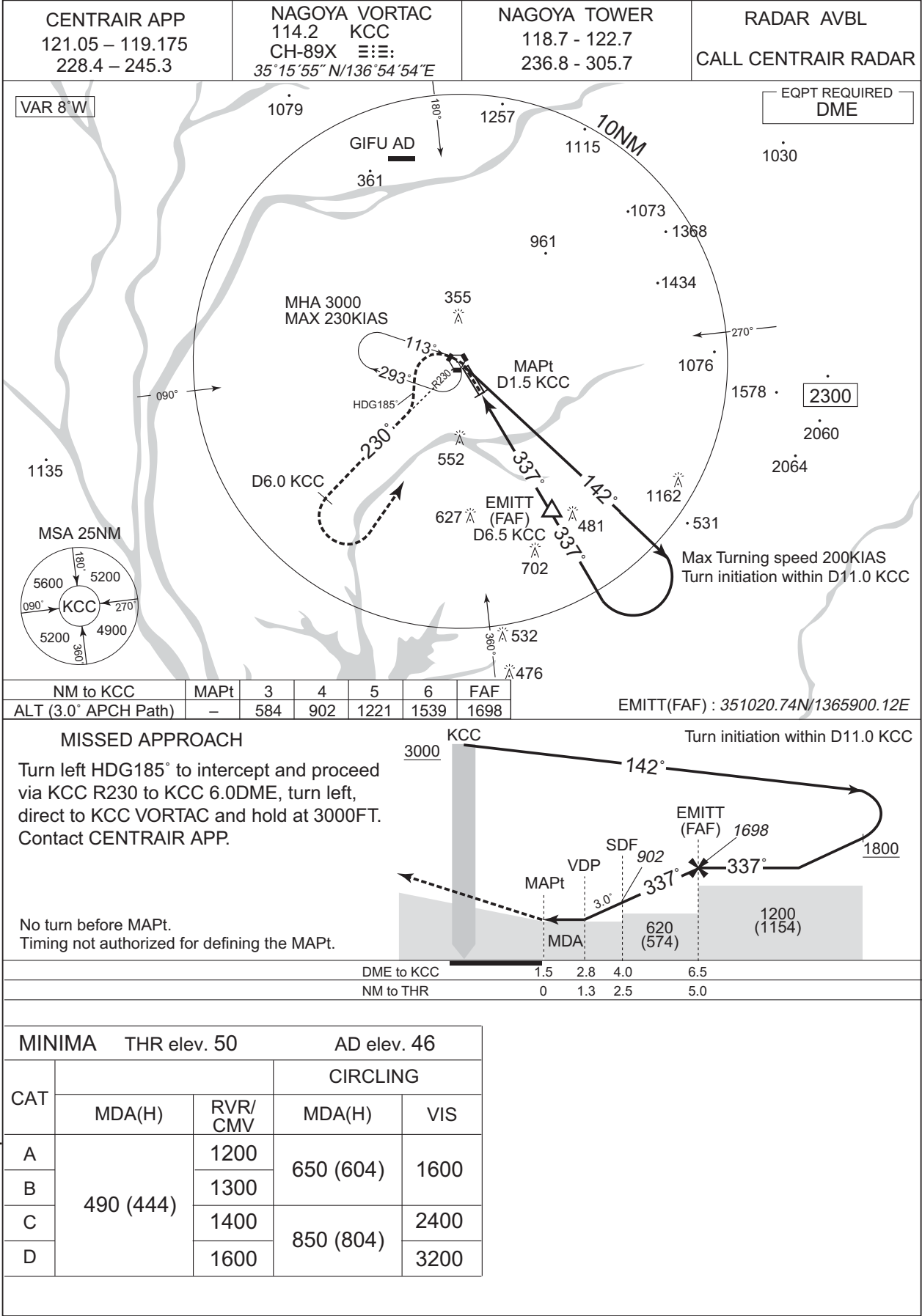


CHANGE : Description of VAR.

INSTRUMENT APPROACH CHART

RJNA / NAGOYA

VOR RWY34

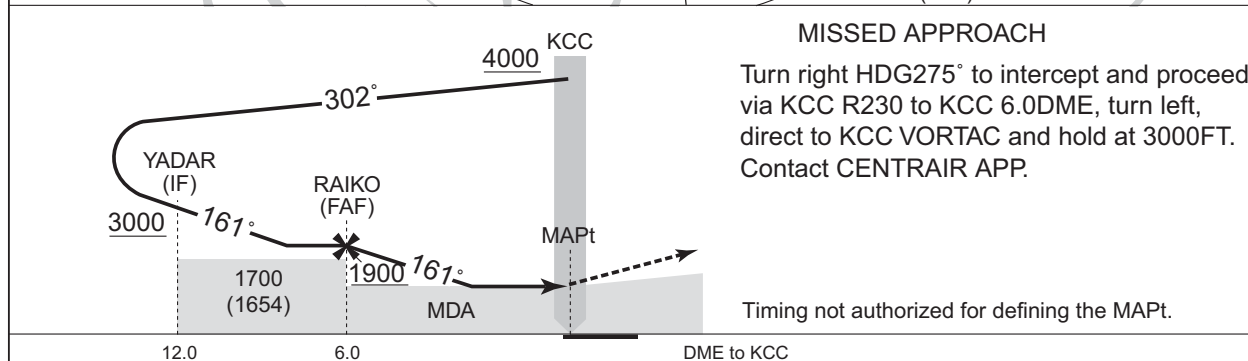


INSTRUMENT APPROACH CHART

RJNA / NAGOYA

VOR A

CENTRAIR APP 121.05 – 119.175 228.4 – 245.3	NAGOYA VORTAC 114.2 KCC CH-89X $\equiv \equiv \equiv$ $35^{\circ}15'55"N/136^{\circ}54'54"E$	NAGOYA TOWER 118.7 - 122.7 236.8 - 305.7	RADAR AVBL CALL CENTRAIR RADAR
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CHANGE : Description of VAR.

MINIMA		AD elev. 46
CAT	CIRCLING	
	MDA(H)	VIS
A	650 (604)	1600
B		2400
C		3200
D	690 (644)	3200

Circling to EAST side of RWY only.

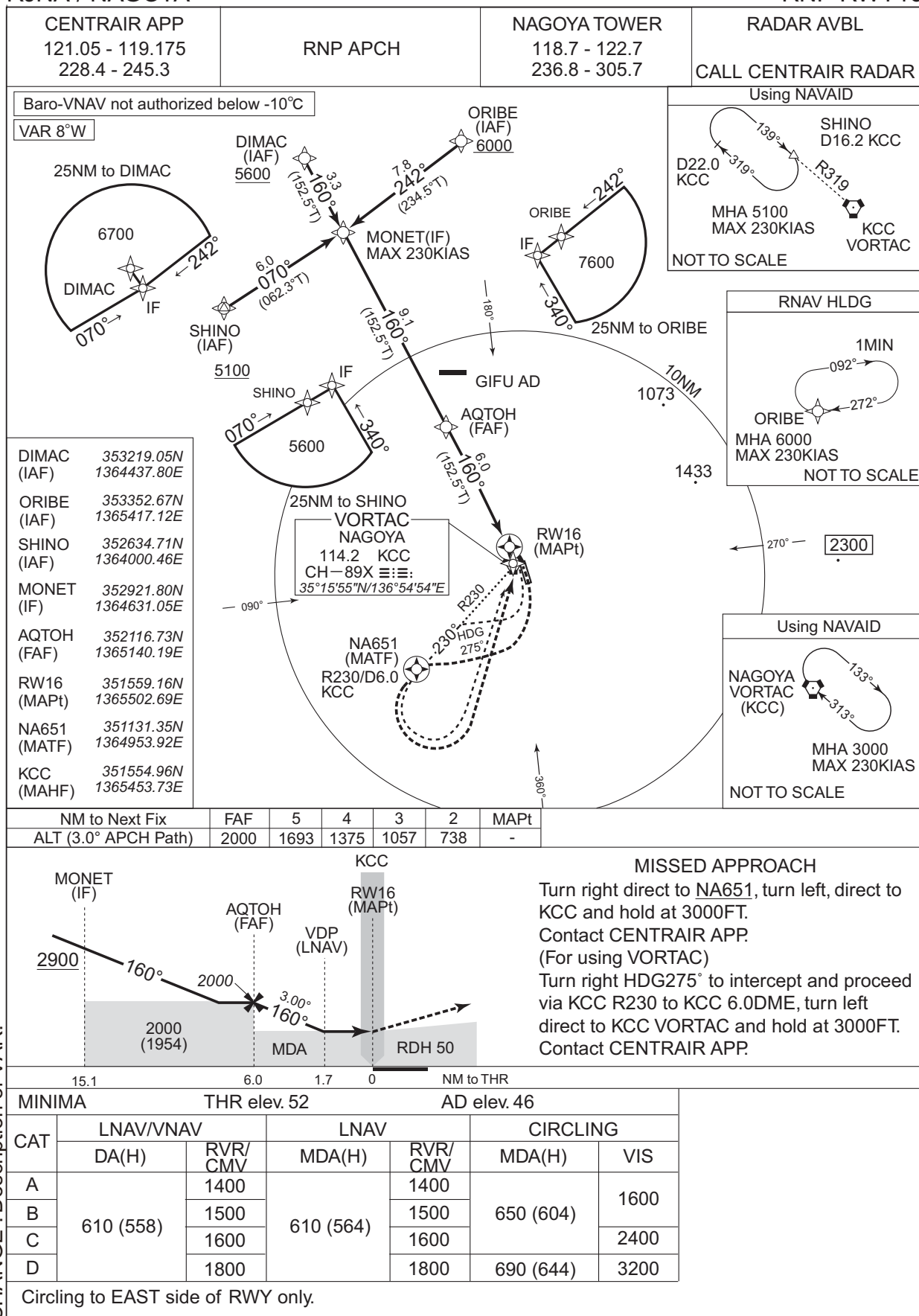
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJNA / NAGOYA

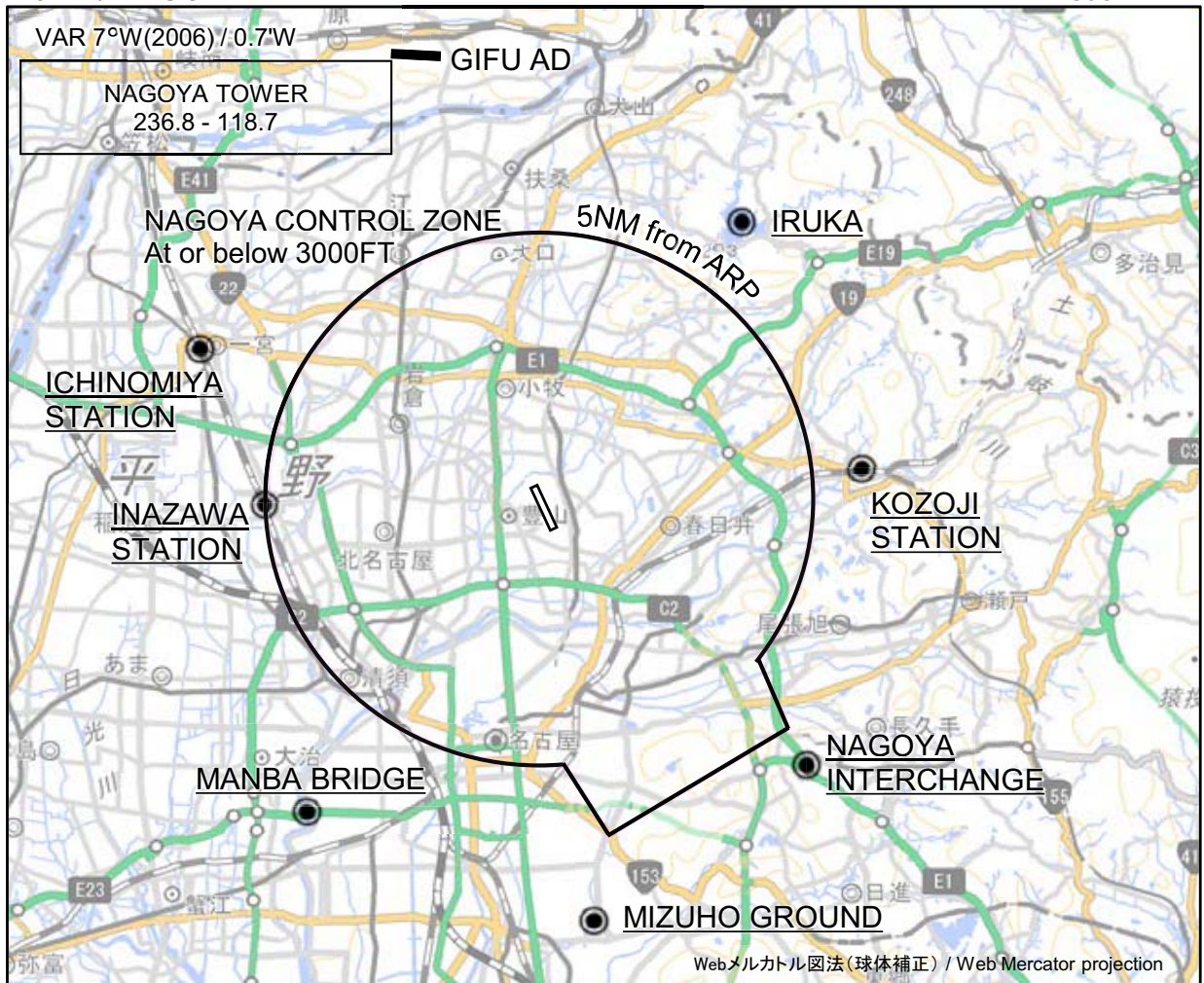
RNP RWY16



CHANGE : Description of VAR.

RJNA / NAGOYA

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
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

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応じられる目視位置通報点である。

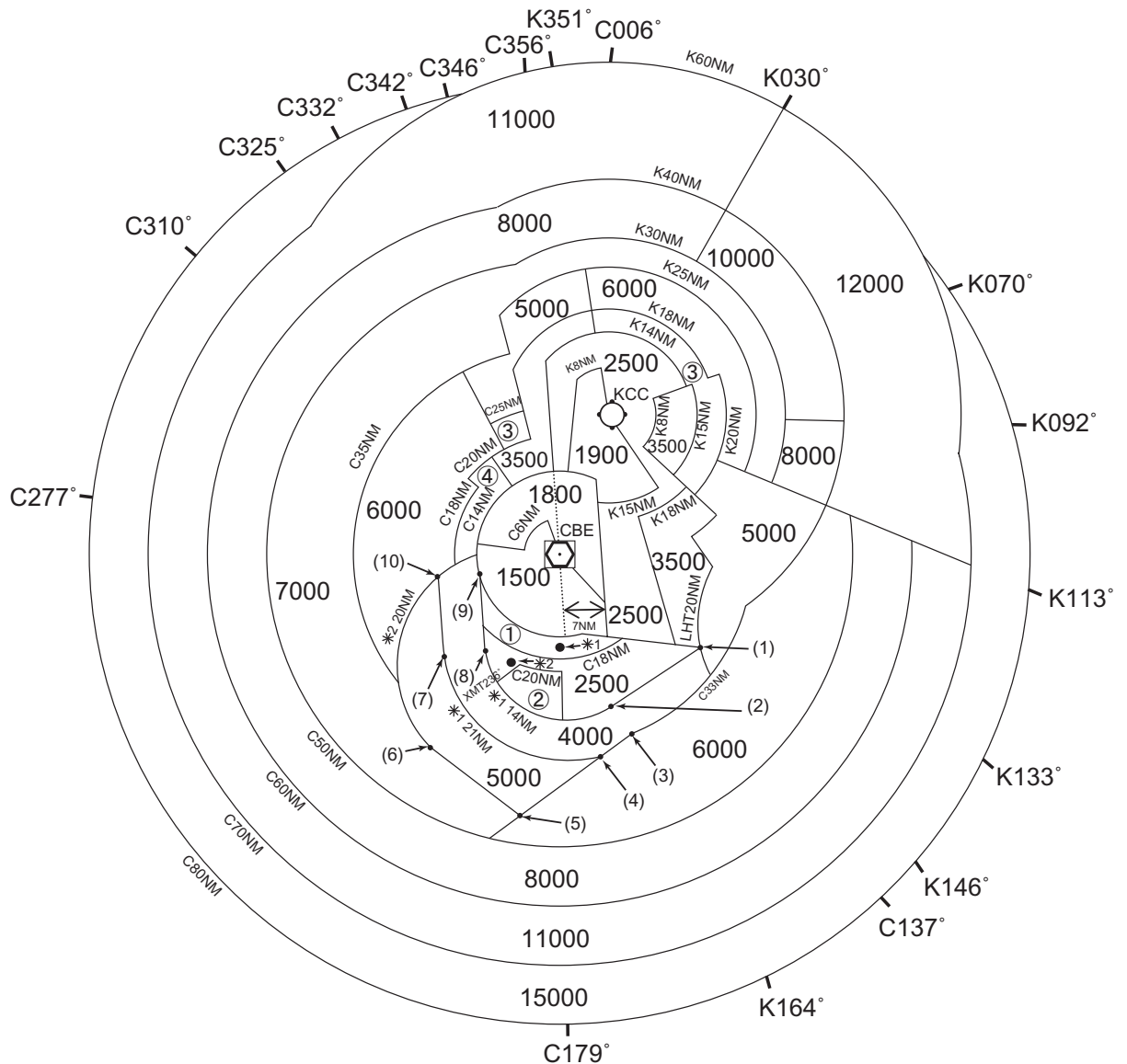
Note : The asterisk (*) indicates the visual reporting point where a pilot is to request ATC clearance regarding to PCA and to make position report as required.



RJNA / NAGOYA

Minimum Vectoring Altitude CHART

VAR 7°W (2009)



- | | | |
|--------|----------------------|-----------------------|
| ① 2000 | (1) 343821N/1371935E | (6) 341414N/1362958E |
| ② 3000 | (2) 342638N/1370237E | (7) 343322N/1362638E |
| ③ 4000 | (3) 342240N/1370744E | (8) 343442N/1363458E |
| ④ 5000 | (4) 341804N/1370143E | (9) 344656N/1363203E |
| | (5) 340628N/1364640E | (10) 344507N/1362348E |

CENTER : 345129N/1364811E (C : CBE)
 CENTER : 351555N/1365454E (K : KCC)
 *1 : 343722N/1365140E
 *2 : 343140N/1364148E

CHANGE : AKENO NDB(AK) abolished.