

TOYAMA AP



STANDARD DEPARTURE CHART -INSTRUMENT

RJNT / TOYAMA

SID and TRANSITION

IKUJI FIVE DEPARTURE

RWY02 : Climb via TOE R010 to 7.0DME...

RWY20 : Climb RWY HDG until 700FT, turn right HDG 055° to intercept  
and proceed via TOE R010 to TOE 7.0DME...  
...turn right HDG 085° to intercept and proceed via  
TOE R040 to IKUJI.

NOTE RWY20 : 5.0% climb gradient required up to 2000FT.

OBST ALT 762FT located at 3.8NM 202° FM end of RWY20.

HISUI TRANSITION

From over IKUJI, climb via TOE R040 to HISUI.



## STANDARD DEPARTURE CHART -INSTRUMENT

RJNT / TOYAMA

SID

URUSI REVERSAL FOUR DEPARTURE

RWY02 : Climb RWY HDG until 700FT, turn left, climb...

RWY20 : Climb RWY HDG until 700FT, turn right HDG 037° to intercept and proceed...  
...via TOE R352 to NANAO, turn right, proceed via TOE R010 to  
intercept and proceed via KMC R061 to URUSI.

NOTE RWY02 : 4.0% climb gradient required up to 1000FT.

OBST ALT 621FT located at 2.8NM 345° FM end of RWY02.

RWY20 : 5.0% climb gradient required up to 2000FT.

OBST ALT 762FT located at 3.8NM 202° FM end of RWY20.

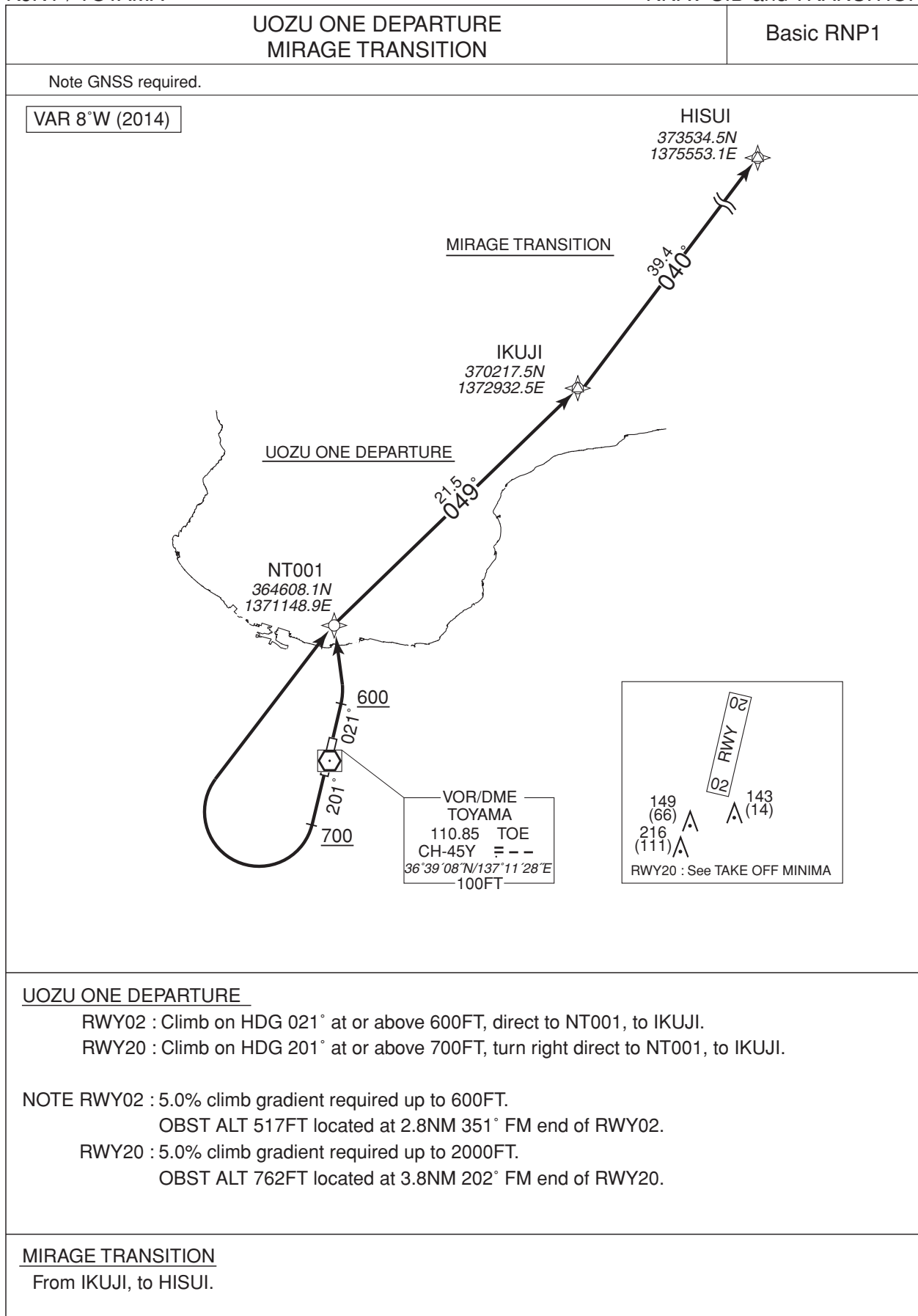
URUSI REVERSAL FOUR DEPARTURE

CHANGE : Minor change

STANDARD DEPARTURE CHART -INSTRUMENT

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RNAV SID and TRANSITION



## STANDARD DEPARTURE CHART -INSTRUMENT

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UOZU ONE DEPARTURE

## RWY02

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	—	—	021 (013.5)	-7.8	—	—	+600	—	—	Basic RNP1
002	DF	NT001	—	—	-7.8	—	—	—	—	—	Basic RNP1
003	TF	IKUJI	—	049 (041.2)	-7.8	21.5	—	—	—	—	Basic RNP1

## RWY20

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	—	—	201 (193.5)	-7.8	—	—	+700	—	—	Basic RNP1
002	DF	NT001	—	—	-7.8	—	R	—	—	—	Basic RNP1
003	TF	IKUJI	—	049 (041.2)	-7.8	21.5	—	—	—	—	Basic RNP1

MIRAGE 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	IKUJI	—	—	-7.8	—	—	—	—	—	Basic RNP1
002	TF	HISUI	—	040 (032.1)	-7.8	39.4	—	—	—	—	Basic RNP1

STANDARD ARRIVAL CHART -INSTRUMENT

RJNT / TOYAMA

STAR

### OHANA ARRIVAL

From over OHANA, proceed via TOE R021 to MEDIC.  
Cross MEDIC at or above 3000FT.

### TOYAMA ARRIVAL

From over URUSI, proceed via TOE R352, turn right to intercept and proceed via TOE R021 to MEDIC within TOE 32.0DME.

Cross MEDIC at or above 3000FT.



## STANDARD ARRIVAL CHART -INSTRUMENT

RJNT / TOYAMA

RNAV STAR

## NANAO ARRIVAL

Basic RNP1

Note GNSS required.

VAR 8°W (2014)



NANAO ARRIVAL

## NANAO ARRIVAL

From URUSI, to NANAQ, to NT050, to NT051, to NT052, to MEDIC at or above 3000FT.

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	URUSI	—	—	-7.8	—	—	—	—	—	Basic RNP1
002	TF	NANAQ	—	352 (344.1)	-7.8	14.6	—	—	-250	—	Basic RNP1
003	TF	NT050	—	052 (043.8)	-7.8	5.0	—	—	—	—	Basic RNP1
004	TF	NT051	—	099 (091.3)	-7.8	6.1	—	—	—	—	Basic RNP1
005	TF	NT052	—	142 (134.2)	-7.8	4.7	—	—	—	—	Basic RNP1
006	TF	MEDIC	—	202 (194.2)	-7.8	13.6	—	+3000	—	—	Basic RNP1

## STANDARD ARRIVAL CHART -INSTRUMENT

RJNT / TOYAMA

RNAV STAR

## MANYO ARRIVAL

Basic RNP1

Note GNSS required.

VAR 8°W (2014)

MANYO ARRIVAL

From OYABE, to MANYO at or above 8000FT, to NT053, to MEDIC at or above 3000FT.

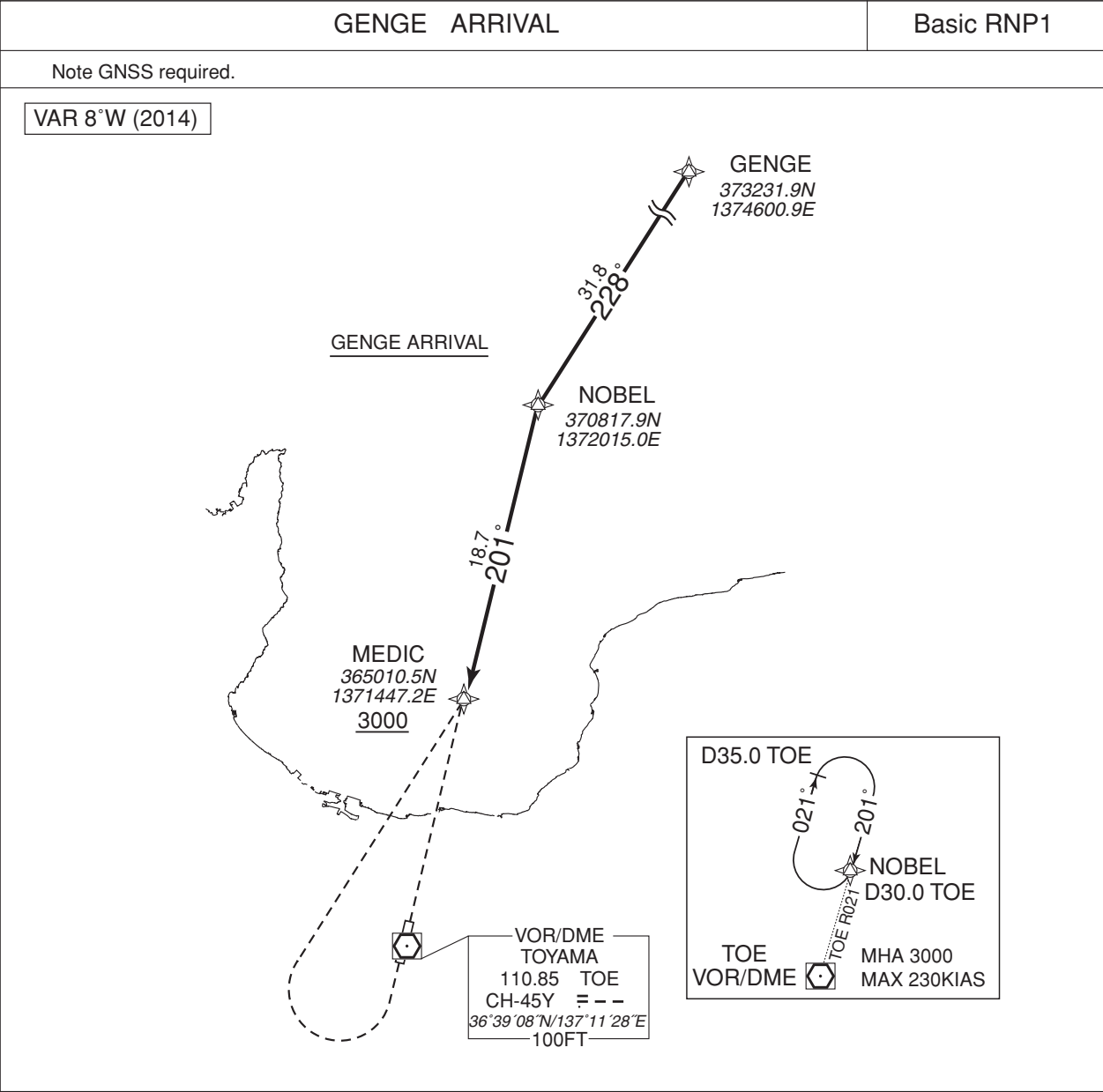
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	OYABE	—	—	-7.8	—	—	—	—	—	Basic RNP1
002	TF	MANYO	—	061 (053.5)	-7.8	14.3	—	+8000	—	—	Basic RNP1
003	TF	NT053	—	045 (037.0)	-7.8	11.7	—	—	—	—	Basic RNP1
004	TF	MEDIC	—	135 (127.4)	-7.8	6.5	—	+3000	—	—	Basic RNP1



STANDARD ARRIVAL CHART -INSTRUMENT

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RNAV STAR



GENGE ARRIVAL

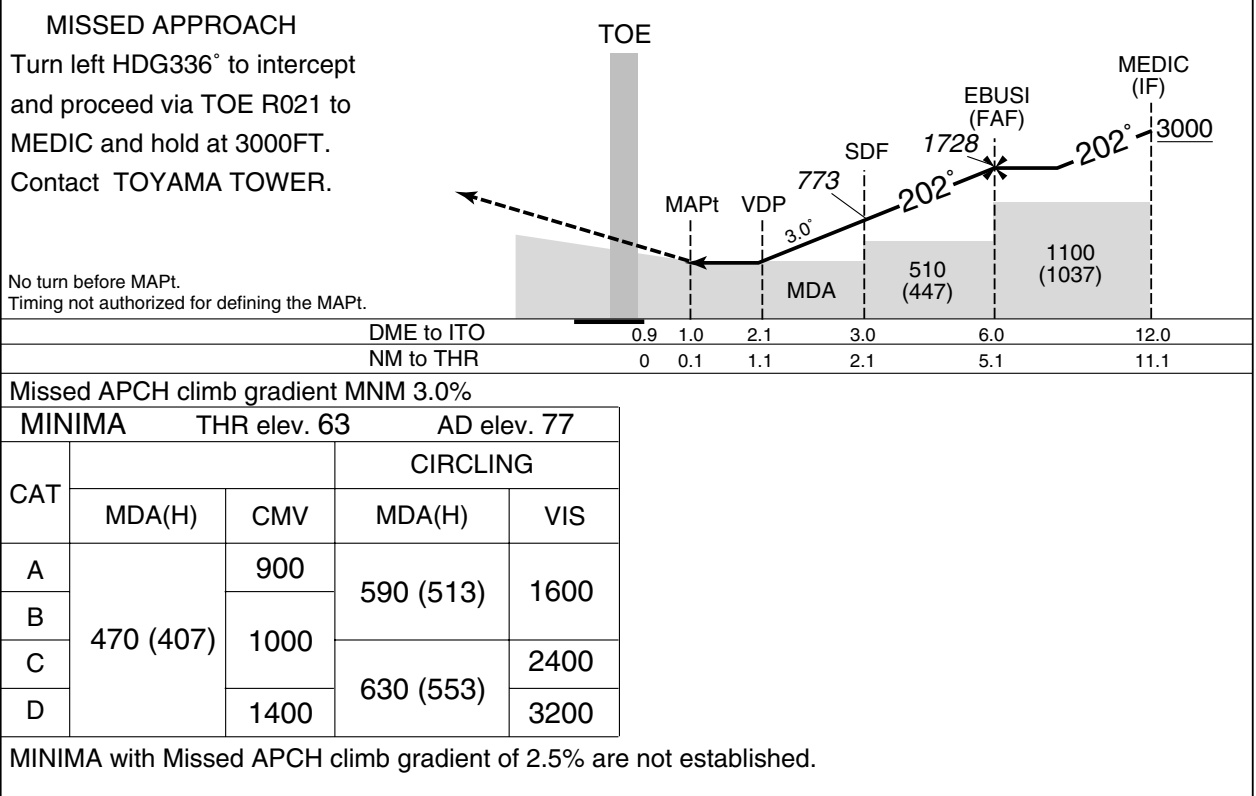
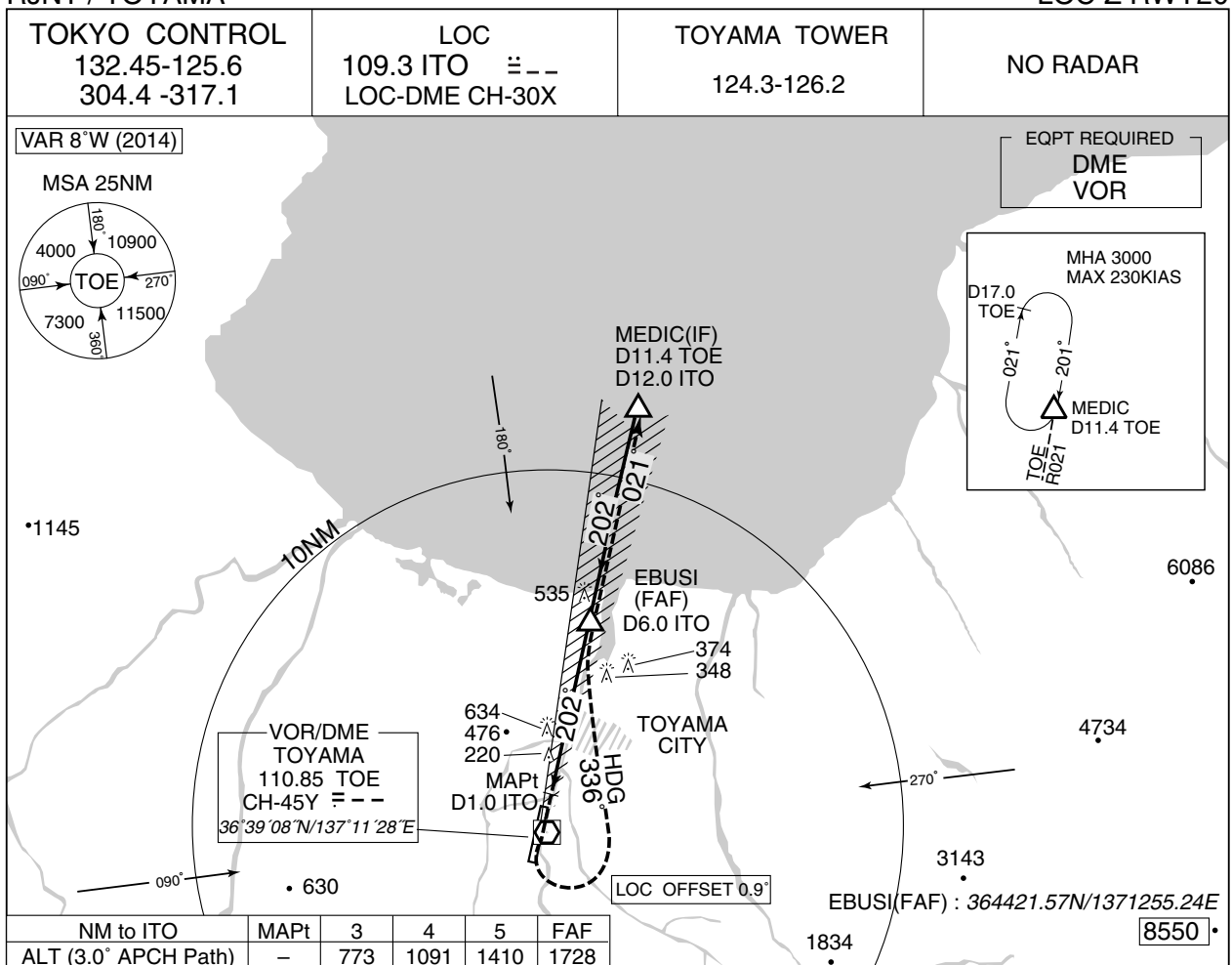
From GENG, to NOBEL, to MEDIC at or above 3000FT.

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	GENGE	—	—	-7.8	—	—	—	—	—	Basic RNP1
002	TF	NOBEL	—	228 (220.3)	-7.8	31.8	—	—	—	—	Basic RNP1
003	TF	MEDIC	—	201 (193.6)	-7.8	18.7	—	+3000	—	—	Basic RNP1

## INSTRUMENT APPROACH CHART

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LOC Z RWY20



## INSTRUMENT APPROACH CHART

RJNT / TOYAMA

LOC Y RWY20



## RJNT / TOYAMA

RNAV(GNSS) Z RWY20

Civil Aviation Bureau, Japan (EFF:28 FEB 2019)

## INSTRUMENT APPROACH CHART

RJNT / TOYAMA

RNAV(RNP) RWY02



## INSTRUMENT APPROACH CHART

RJNT / TOYAMA

RNAV(RNP) RWY02

RNAV(RNP) RWY02Coding 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	MEDIC	—	—	-7.8	—	—	+3000	—	—	—
002	TF	NT250	—	225 (217.2)	-7.8	14.0	—	+3000	-185	—	1.0
003	RF Center: NTRF1 r=2.87NM	OWARA	—	—	-7.8	3.1	L	3000	—	—	1.0
004	RF Center: NTRF1 r=2.87NM	NT251	—	—	-7.8	7.1	L	723	—	-3.00	0.3
005	TF	RW02	Y	021 (013.5)	-7.8	1.8	—	145	—	-3.00/50	0.3
006	TF	NT252	—	021 (013.5)	-7.8	7.6	—	—	—	—	1.0
007	TF	MEDIC	—	023 (015.0)	-7.8	4.6	—	3000	—	—	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
MEDIC	365010.50N/1371447.15E	NTRF1	363717.08N/1370705.51E
NT250	363901.33N/1370415.09E		
OWARA	363607.70N/1370349.71E		
NT251	363636.65N/1371033.43E		
RW02	363822.79N/1371105.23E		
NT252	364543.55N/1371317.58E		

## INSTRUMENT APPROACH CHART

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RNAV(RNP) Y RWY20

TOKYO CONTROL  
132.45-125.6  
304.4 -317.1

GNSS required

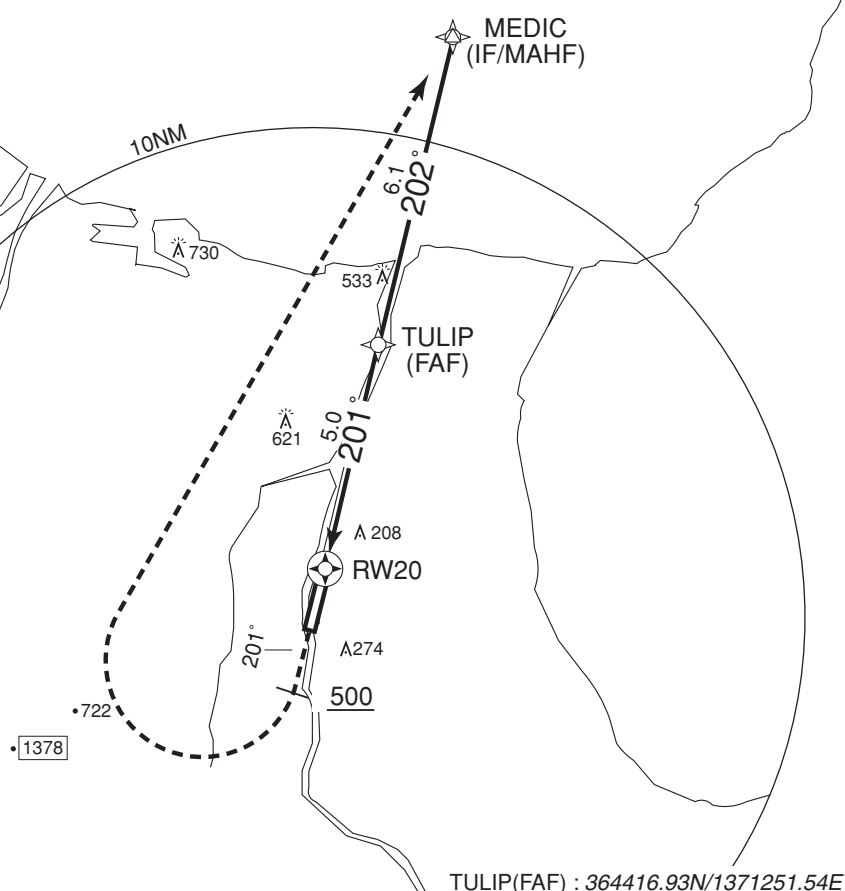
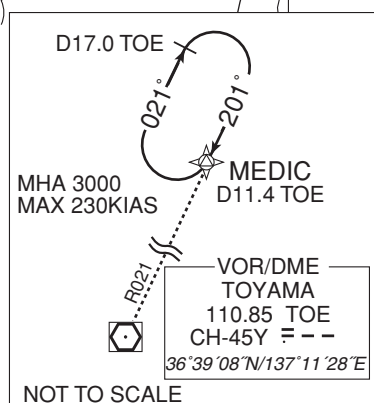
TOYAMA TOWER  
124.3-126.2

NO RADAR

For uncompensated Baro-VNAV systems, procedure not authorized below -10°C/ above 50°C

VAR 8°W (2014)

MSA RW20 25NM



## MISSED APPROACH

From RW20 on track 201°, at  
or above 500FT turn right,  
direct to MEDIC and hold at  
3000FT.  
Contact TOYAMA TWR.



NM to THR

Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 63 AD elev. 77

CAT	RNP 0.30	
	DA(H)	CMV
A	—	—
B	—	—
C	370 (307)	1000
D	—	1400

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

# RNP AR

Special Authorization Required

## INSTRUMENT APPROACH CHART

RJNT / TOYAMA

RNAV(RNP) Y RWY20

RNAV(RNP) Y RWY20Coding 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	MEDIC	—	—	-7.8	—	—	+3000	—	—	—
002	TF	TULIP	—	202 (194.7)	-7.8	6.1	—	1700	—	—	1.0
003	TF	RW20	Y	201 (193.5)	-7.8	5.0	—	113	—	-3.00/50	0.3
004	FA	—	—	201 (193.5)	-7.8	—	—	+500	—	—	1.0
005	DF	MEDIC	—	—	-7.8	—	R	3000	—	—	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates
MEDIC	365010.50N/1371447.15E
TULIP	364416.93N/1371251.54E
RW20	363925.86N/1371124.14E



## INSTRUMENT APPROACH CHART

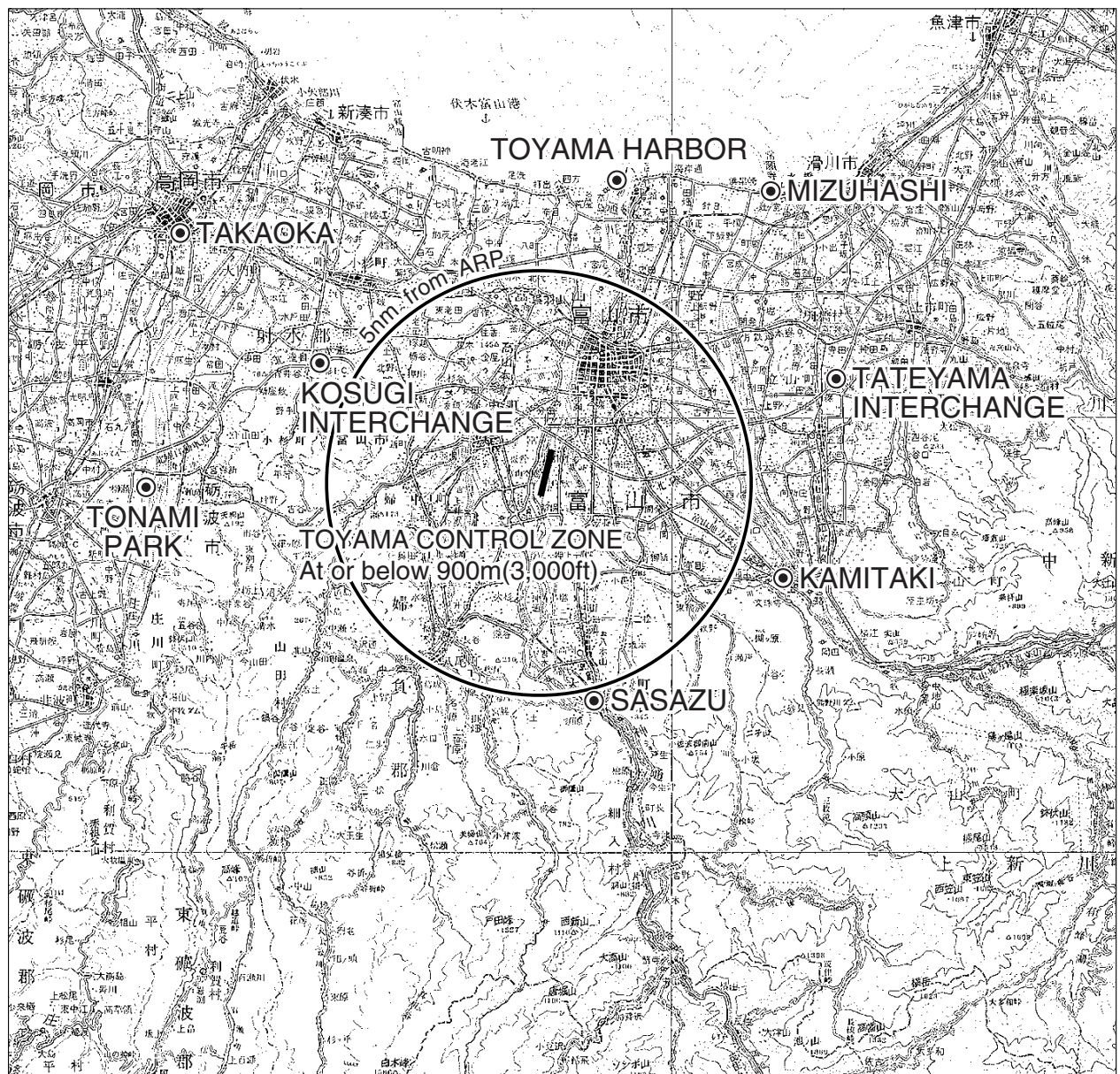
RJNT / TOYAMA

VOR A



## RJNT / TOYAMA

## Visual REP



Call sign	BRG / DIST from ARP	Remarks
富山ハーバー Toyama harbor	022°/7.1NM	港 Harbor
高岡 Takaoka	312°/10.0NM	JR駅 JR Station
小杉インターチェンジ Kosugi Interchange	304°/5.7NM	北陸自動車道インターチェンジ Interchange
立山インターチェンジ Tateyama Interchange	080°/7.0NM	北陸自動車道インターチェンジ Interchange
水橋 Mizuhashi	046°/8.6NM	(常願寺川) 河口 River-mouth
上滝 Kamitaki	121°/5.7NM	駅 Station
笹津 Sasazu	175°/5.3NM	JR駅 JR Station
砺波パーク Tonami Park	275°/9.0NM	砺波総合運動公園 Park

LDG CHART				
OBSTRCTION NR	AGL (FT)	MSL (FT)	AERONAUTICAL OBSTRUCTIONS LIGHTS	DAY MARKINGS
1	185	220	○	○
2	176	213	○	○
3	45	97	○	○
4	187	256	○	○
5	159	233	○	○
6	178	246	○	○
7	173	249	—	○
8	192	262	—	○
9	189	259	○	○
10	189	263	—	○
11	189	282	—	○
12	189	299	○	○
13	120	212	—	○
14	135	261	○	○
15	167	273	○	○
16	125	236	—	○
17	125	238	○	○
18	110	228	—	○
19	125	249	○	○
20	120	231	○	○
21	103	222	○	○
22	132	270	—	○
23	132	279	—	○
24	135	286	—	—
25	51	223	—	—
26	71	243	—	—
27	135	283	—	—
28	120	266	—	—
29	47	149	○	○



RJNT / TOYAMA

Minimum Vectoring Altitude CHART

