

TOYAMA AP



STANDARD DEPARTURE CHART -INSTRUMENT

RJNT / TOYAMA

SID and TRANSITION

IKUJI FIVE DEPARTURE

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

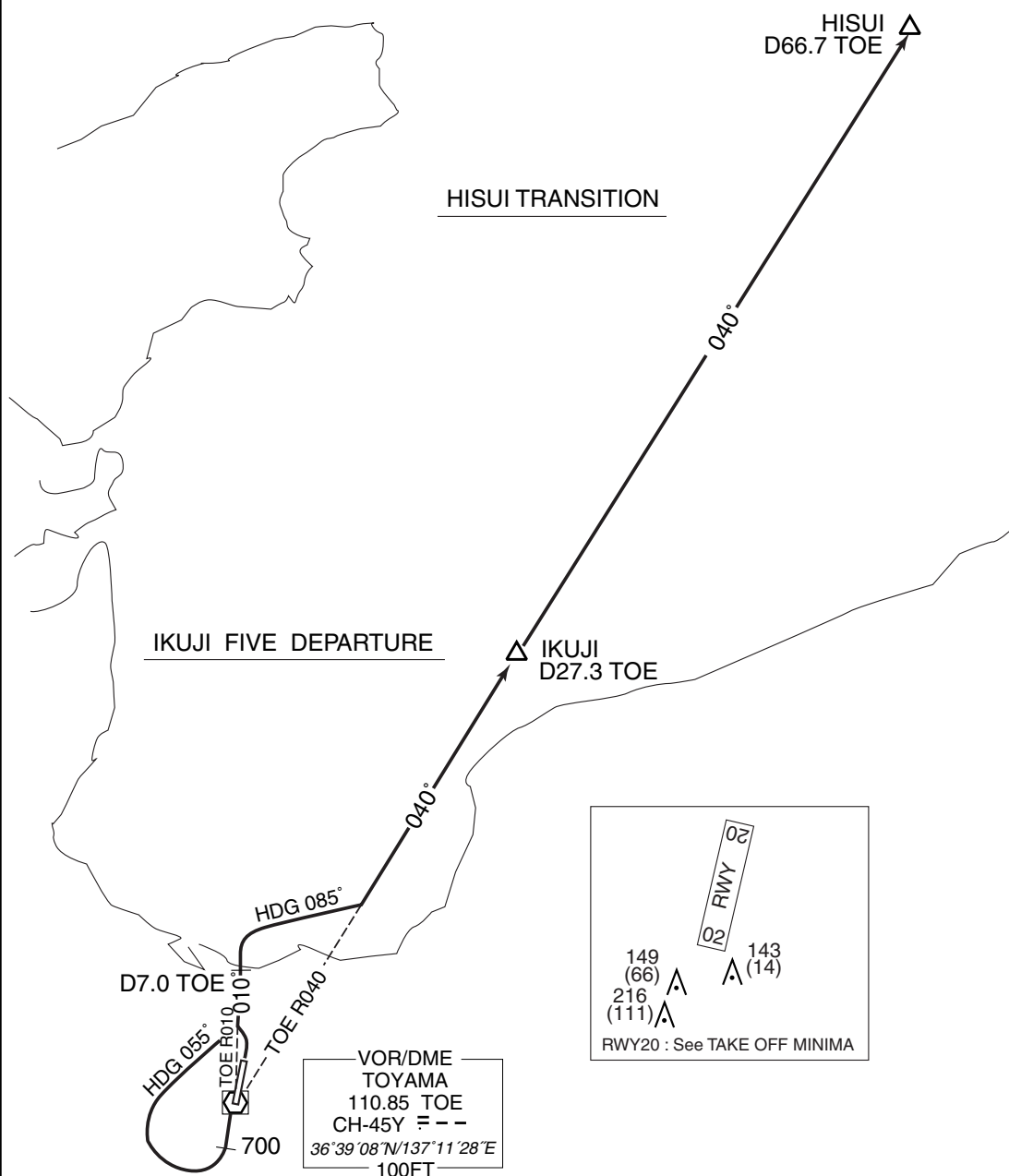
RWY20 : Climb RWY HDG until 700FT, turn right HDG 055° to intercept
and proceed via TOE R010 to TOE 7.0DME...
...turn right HDG 085° to intercept and proceed via
TOE R040 to IKUJI.

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

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SID

URUSI REVERSAL FOUR DEPARTURE

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

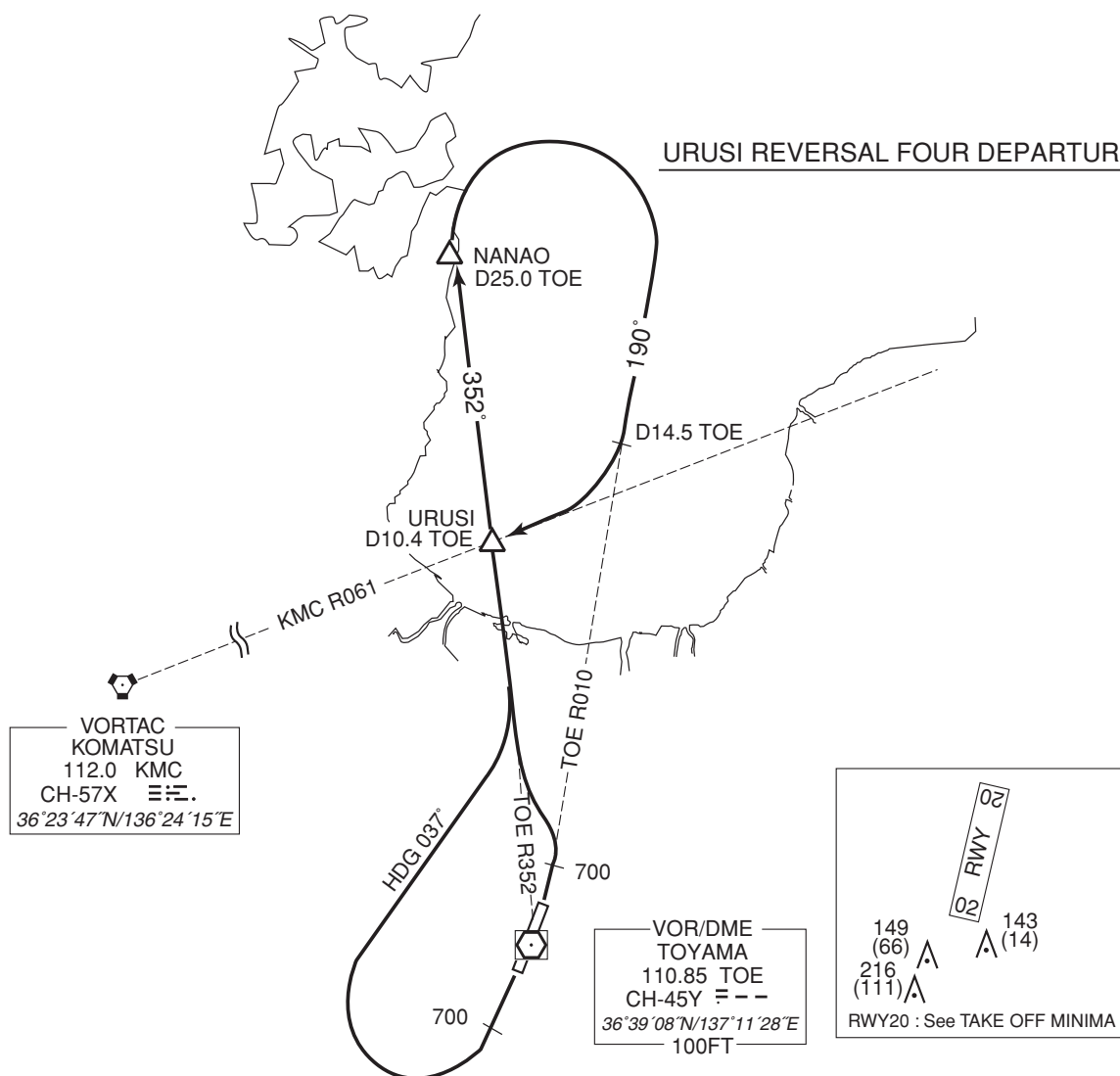
RWY20 : Climb RWY HDG until 700FT, turn right HDG 037° to intercept and proceed...
...via TOE R352 to NANAO, turn right, proceed via TOE R010 to
intercept and proceed via KMC R061 to URUSI.

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.

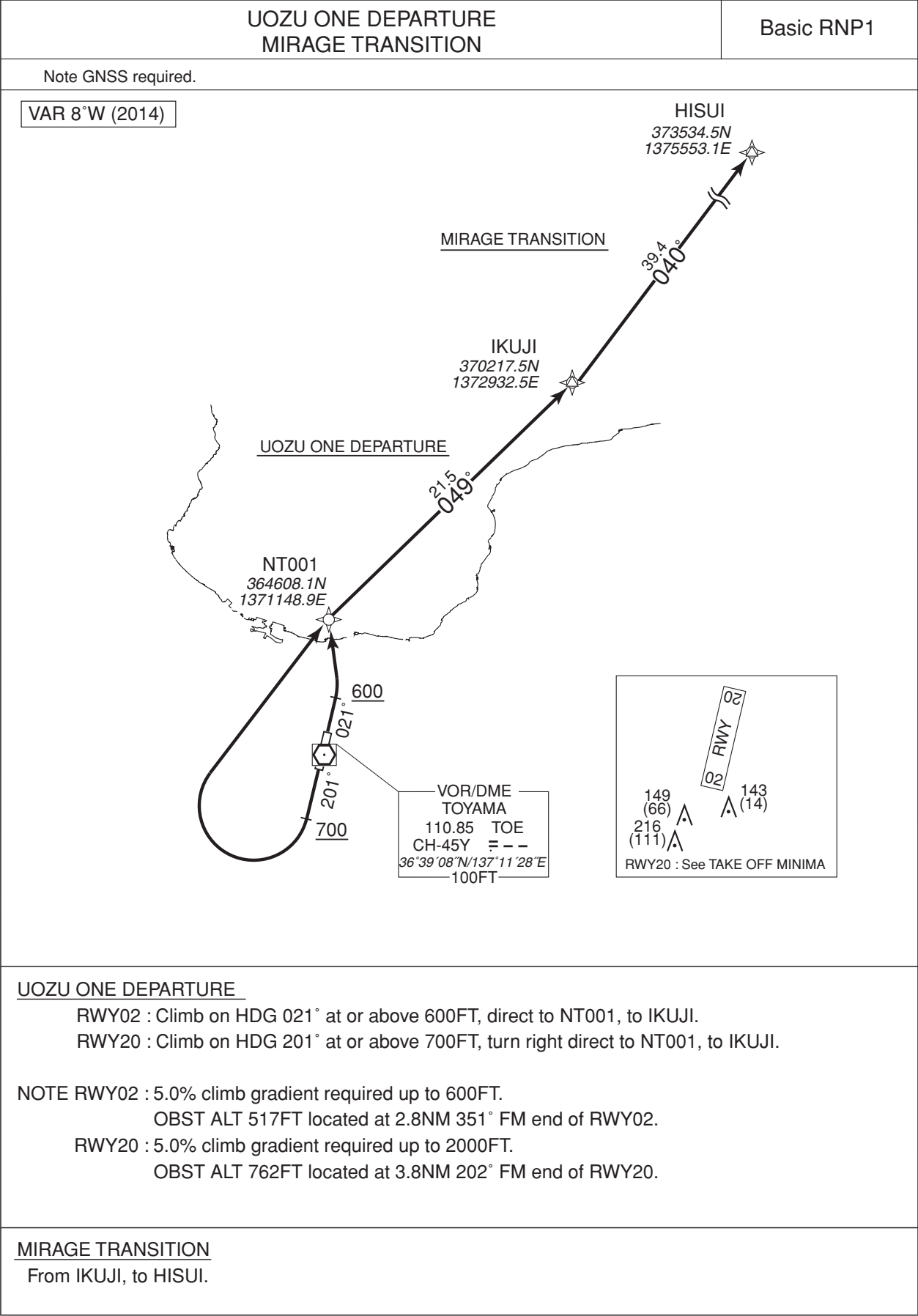
URUSI REVERSAL FOUR DEPARTURE

CHANGE : Minor change

STANDARD DEPARTURE CHART -INSTRUMENT

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RNAV SID and TRANSITION



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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

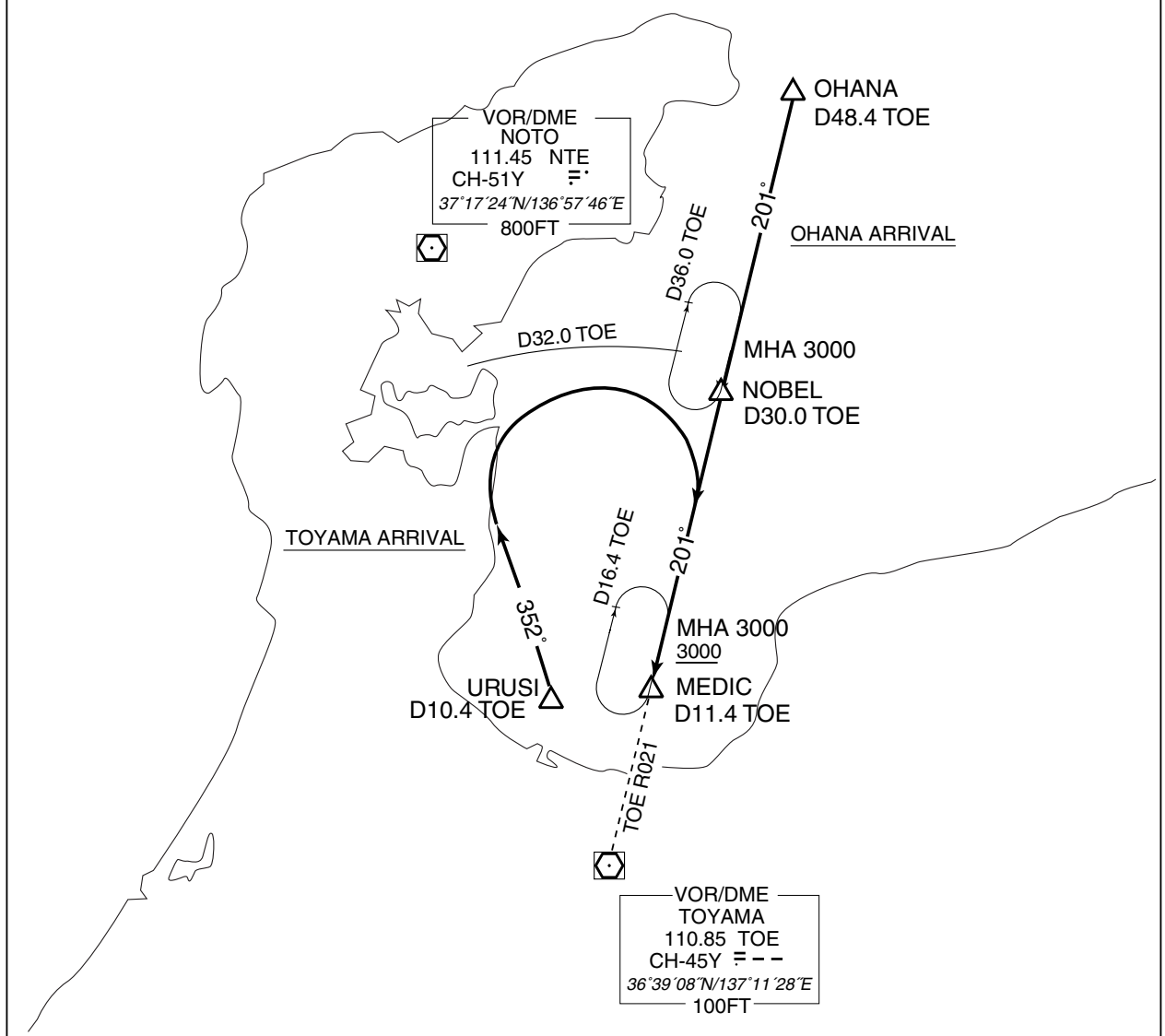
OHANA ARRIVAL

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

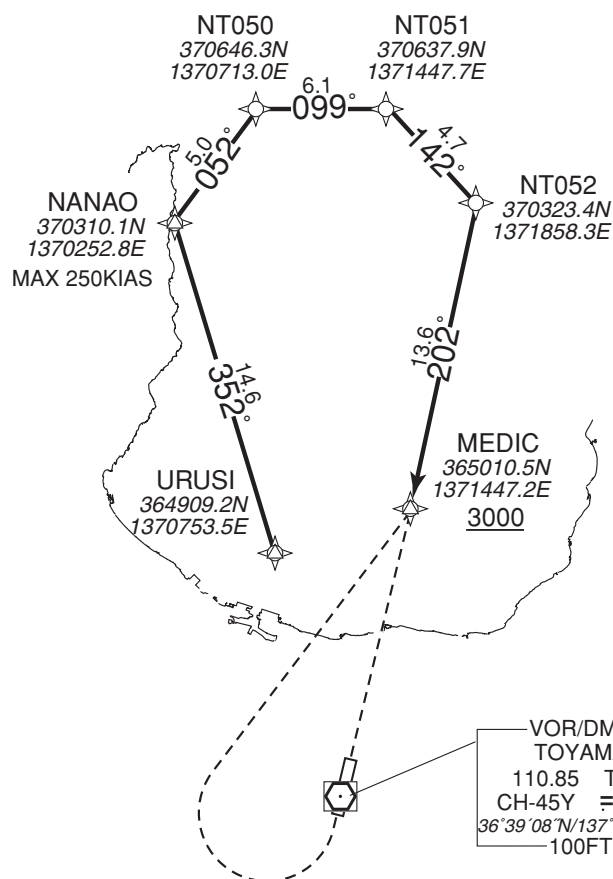
RNAV STAR

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

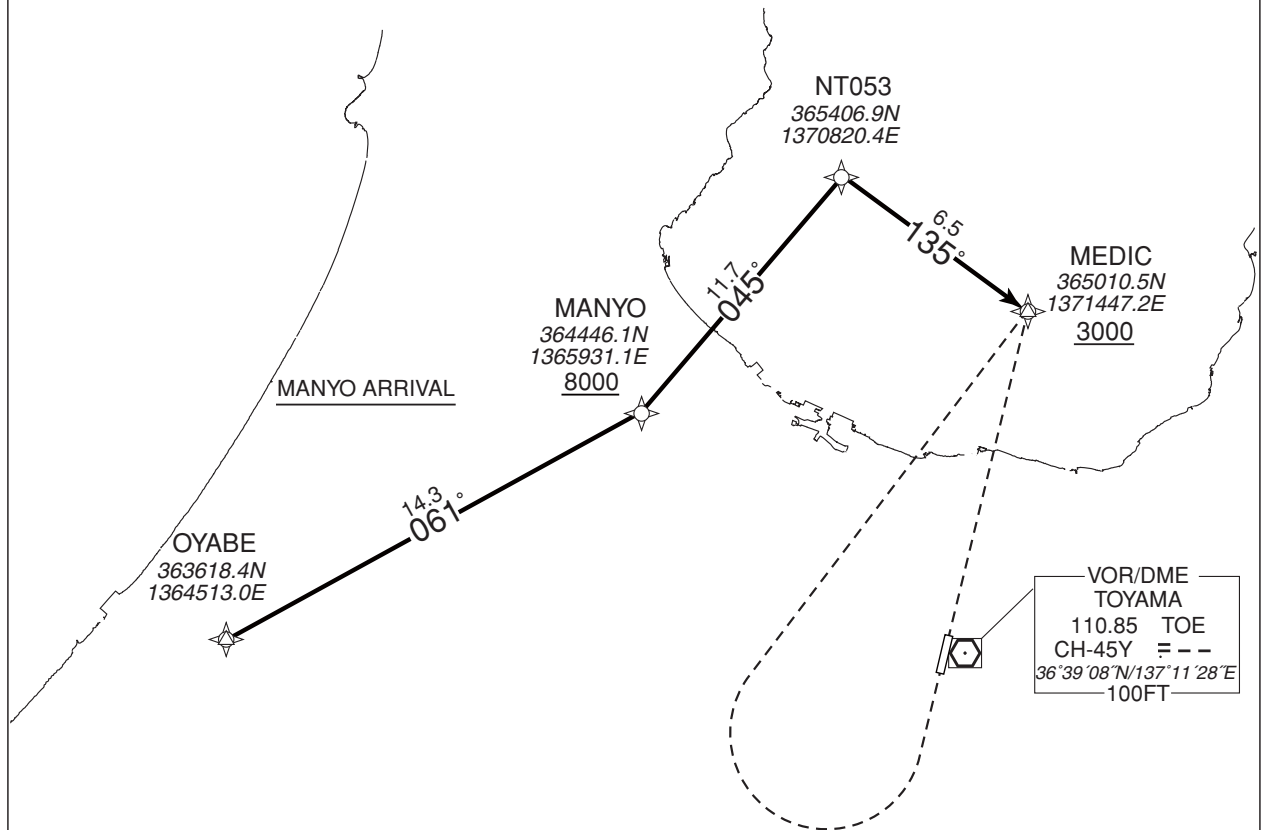
RNAV STAR

MANYO ARRIVAL

Basic RNP1

Note GNSS required.

VAR 8°W (2014)



MANYO ARRIVAL

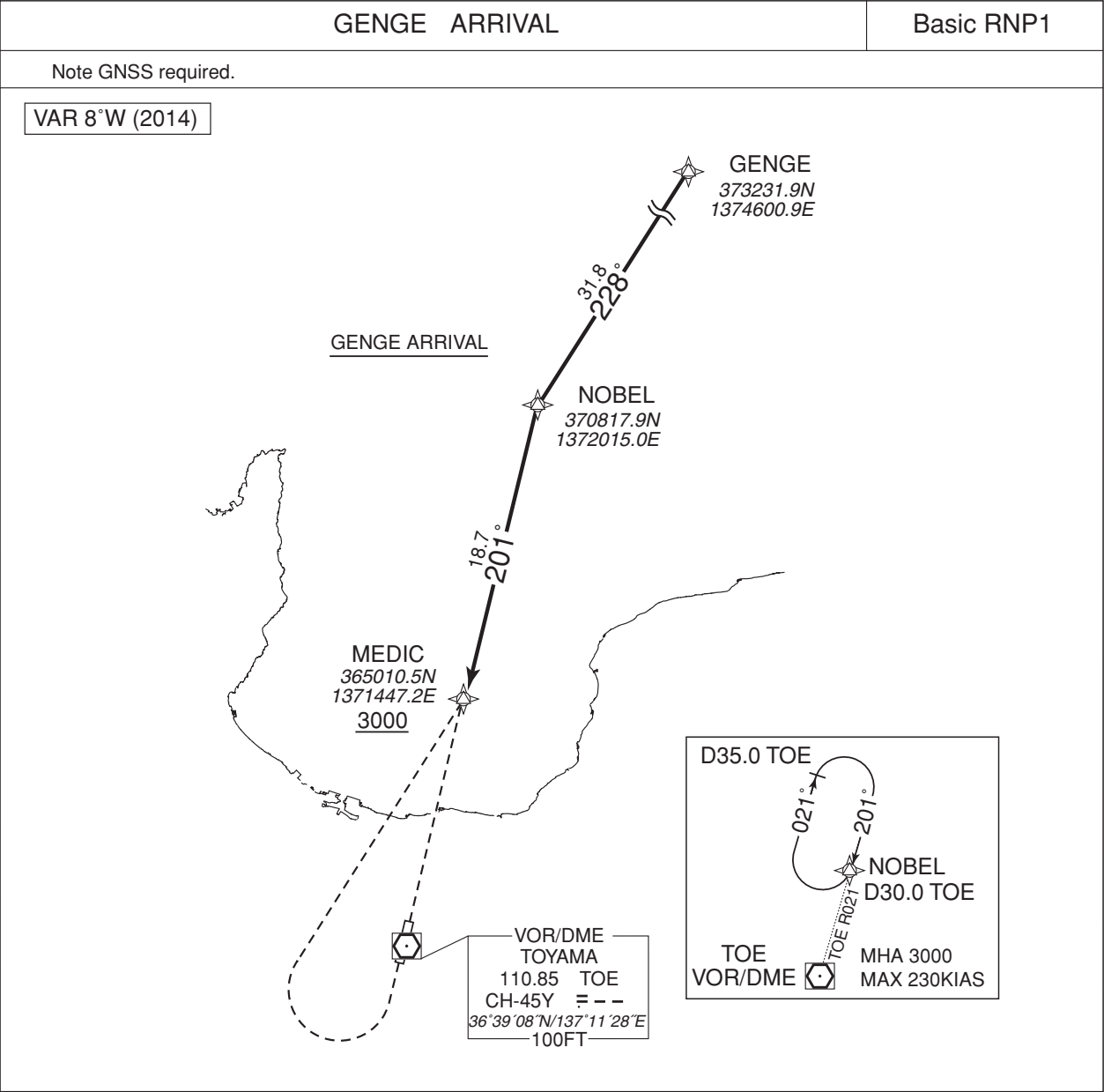
From OYABE, to MANYO at or above 8000FT, to NT053, to MEDIC at or above 3000FT.

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



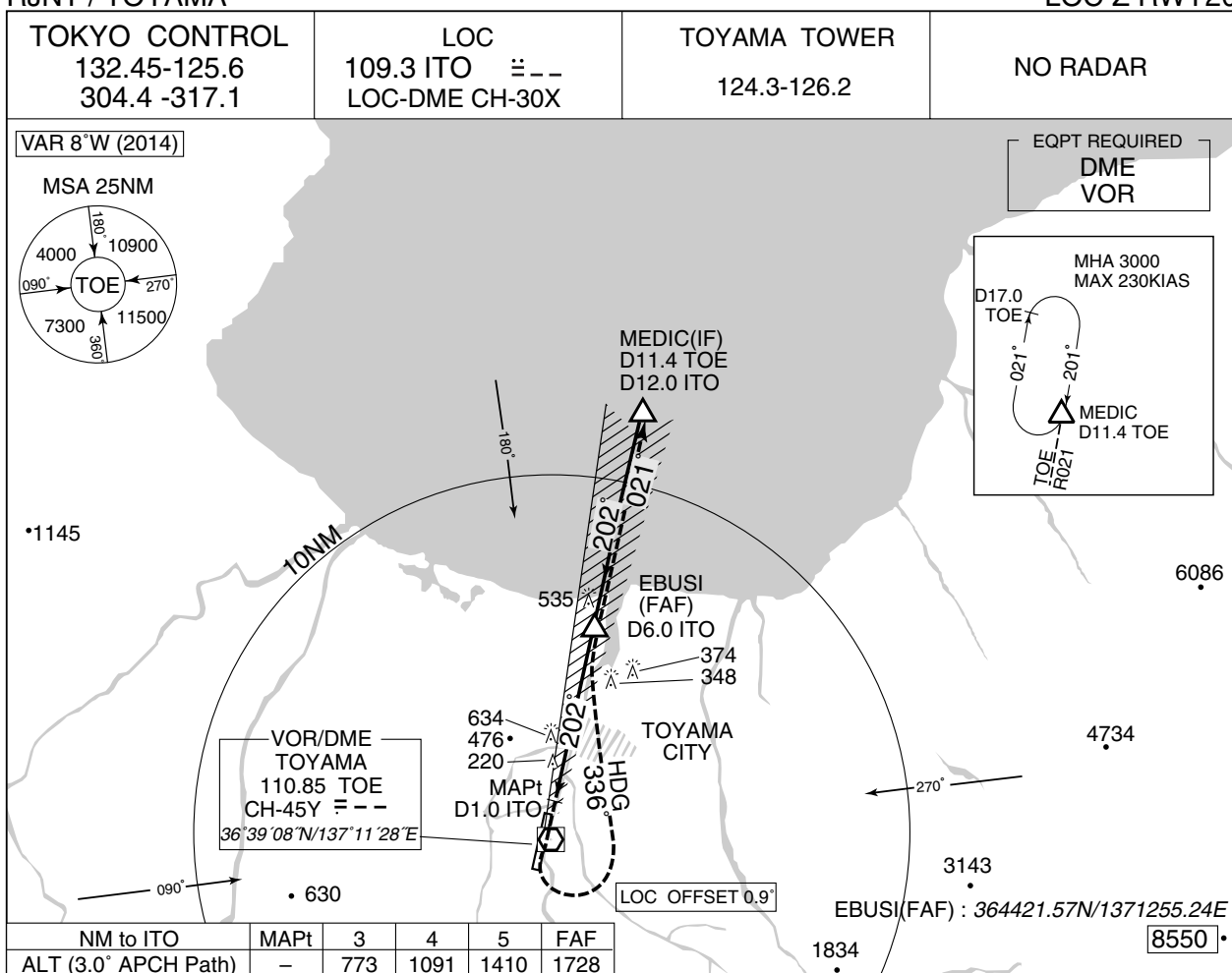
GENGE ARRIVAL

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

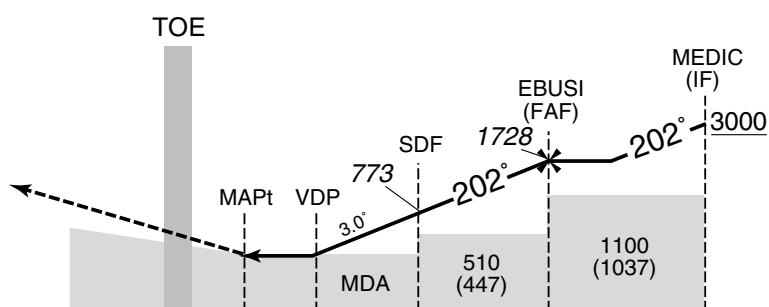
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	GENG	—	—	-7.8	—	—	—	—	—	Basic RNP1
002	TF	NOBEL	—	228 (220.3)	-7.8	31.8	—	—	—	—	Basic RNP1
003	TF	MEDIC	—	201 (193.6)	-7.8	18.7	—	+3000	—	—	Basic RNP1

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LOC Z RWY20



Turn left HDG336° to intercept
and proceed via TOE R021 to
MEDIC and hold at 3000FT.
Contact TOYAMA TOWER.



No turn before MAPt.
Timing not authorized for defining the MAPt.

	DME to ITO	0.9	1.0	2.1	3.0	6.0	12.0
	NM to THR	0	0.1	1.1	2.1	5.1	11.1

Missed APCH climb gradient MNM 3.0%

MINIMA		THR elev. 63	AD elev. 77	
CAT			CIRCLING	
	MDA(H)	CMV	MDA(H)	VIS
A	470 (407)	900	590 (513)	1600
B		1000		
C			630 (553)	2400
D				1400

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

INSTRUMENT APPROACH CHART

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LOC Y RWY20



INSTRUMENT APPROACH CHART

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RNAV(GNSS) Z RWY20



INSTRUMENT APPROACH CHART

RJNT / TOYAMA

RNAV(RNP) RWY02



INSTRUMENT APPROACH CHART

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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

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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

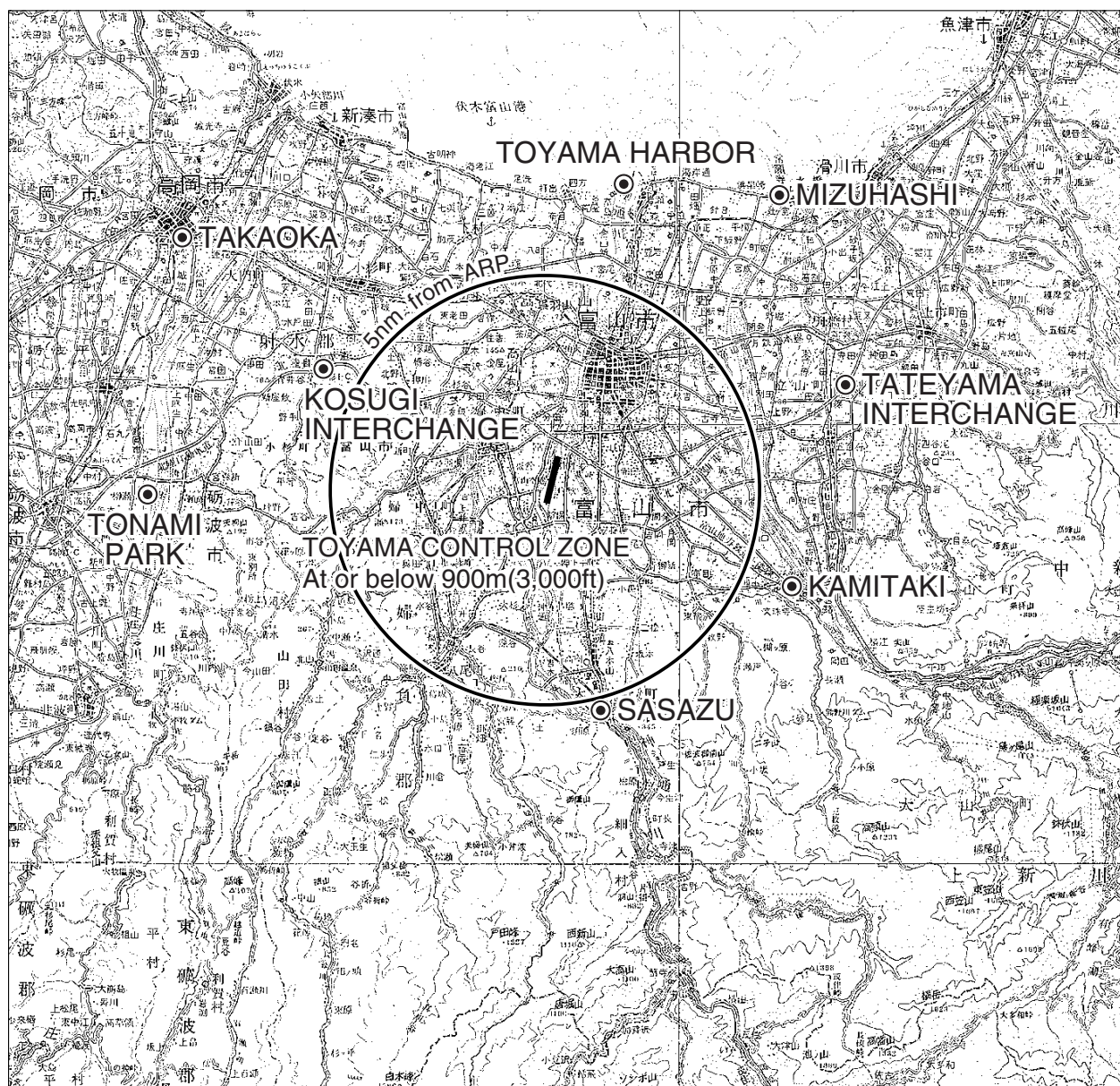
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VOR A



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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	○	○



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Minimum Vectoring Altitude CHART

