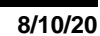


AD CHART



INTENTIONALLY LEFT BLANK

STANDARD DEPARTURE CHART -INSTRUMENT

ROMY / MIYAKO

RNAV SID

TORII TWO DEPARTURE			RNAV1
NOTE 1) GNSS required. 2) RADAR service required.	Critical DME	—	
	DME GAP	RWY04 : DER - TORII RWY22 : DER - TORII	
	Inappropriate NavAids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.	

VAR 5°W (2015)

VOR/DME
SHIMOJISHIMA
117.1 SJE
CH-118X
24°49'19"N/125°08'38"E
100FT

SHIMOJISHIMA
AP

VORTAC
MIYAKOJIMA
113.45 MJC
CH-81Y
24°46'39"N/125°17'36"E
200FT

TORII TWO DEPARTURE



TORII TWO DEPARTURE

RWY04 : Climb on HDG043° at or above 700FT, turn right direct to SANIT, to TORII.

RWY22 : Climb on HDG223° at or above 600FT, turn left direct to SANIT, to TORII.

TORII TWO DEPARTURE

RWY04

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	—	—	043 (038.2)	-4.5	—	—	+700	—	—	RNAV1
002	DF	SANIT	—	—	-4.5	—	R	—	—	—	RNAV1
003	TF	TORII	—	065 (060.7)	-4.5	23.5	—	—	—	—	RNAV1

RWY22

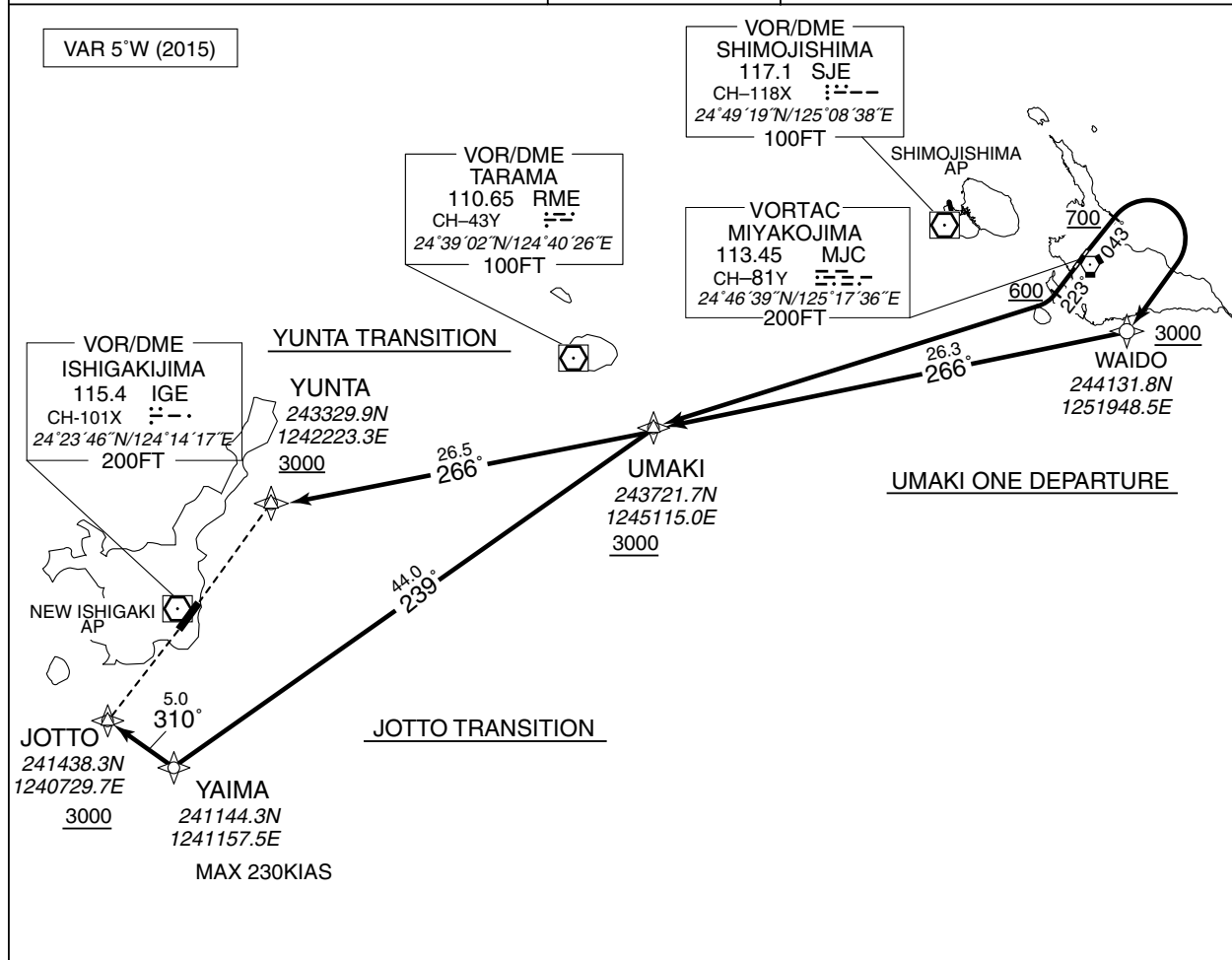
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	223 (218.2)	-4.5	—	—	+600	—	—	RNAV1
002	DF	SANIT	—	—	-4.5	—	L	—	—	—	RNAV1
003	TF	TORII	—	065 (060.7)	-4.5	23.5	—	—	—	—	RNAV1

STANDARD DEPARTURE CHART -INSTRUMENT

ROMY / MIYAKO

RNAV SID and TRANSITION

UMAKI ONE DEPARTURE JOTTO TRANSITION / YUNTA TRANSITION		RNAV1
<p>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 at the starting point of take-off roll.</p> <p>2) RADAR service required.</p>	Critical DME	<p>RWY04 : MJC, IGE : WAIDO - 23NM to UMAKI</p> <p>JOTTO TRANSITION : MJC : 22NM to YAIMA - 10NM to YAIMA IGE : 18NM to YAIMA - 10NM to YAIMA YNE : 22NM to YAIMA - 20NM to YAIMA</p> <p>YUNTA TRANSITION : IGE, YNE : 8NM to YUNTA - YUNTA</p>
	DME GAP	<p>RWY04 : DER - WAIDO, 23NM to UMAKI - UMAKI RWY22 : DER - UMAKI</p> <p>JOTTO TRANSITION : UMAKI - 22NM to YAIMA YUNTA TRANSITION : UMAKI - 8NM to YUNTA</p>
	Inappropriate NavAids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.



UMAKI ONE DEPARTURE

RWY04 : Climb on HDG043° at or above 700FT, turn right direct to WAIDO at or above 3000FT, to UMAKI at or above 3000FT.

RWY22 : Climb on HDG223° at or above 600FT, turn right direct to UMAKI at or above 3000FT.

YUNTA TRANSITION

From UMAKI at or above 3000FT, to YUNTA at or above 3000FT.

JOTTO TRANSITION

From UMAKI at or above 3000FT. to YAIMA, to JOTTO at or above 3000FT.

STANDARD DEPARTURE CHART -INSTRUMENT

ROMY / MIYAKO

RNAV SID and TRANSITION

UMAKI ONE DEPARTURE

RWY04

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	—	—	043 (038.2)	-4.5	—	—	+700	—	—	RNAV1
002	DF	WAIDO	—	—	-4.5	—	R	+3000	—	—	RNAV1
003	TF	UMAKI	—	266 (261.0)	-4.5	26.3	—	+3000	—	—	RNAV1

RWY22

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	—	—	223 (218.2)	-4.5	—	—	+600	—	—	RNAV1
002	DF	UMAKI	—	—	-4.5	—	R	+3000	—	—	RNAV1

YUNTA 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	UMAKI	—	—	-4.5	—	—	+3000	—	—	RNAV1
002	TF	YUNTA	—	266 (261.7)	-4.5	26.5	—	+3000	—	—	RNAV1

JOTTO 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	UMAKI	—	—	-4.5	—	—	+3000	—	—	RNAV1
002	TF	YAIMA	—	239 (234.5)	-4.5	44.0	—	—	-230	—	RNAV1
003	TF	JOTTO	—	310 (305.5)	-4.5	5.0	—	+3000	—	—	RNAV1

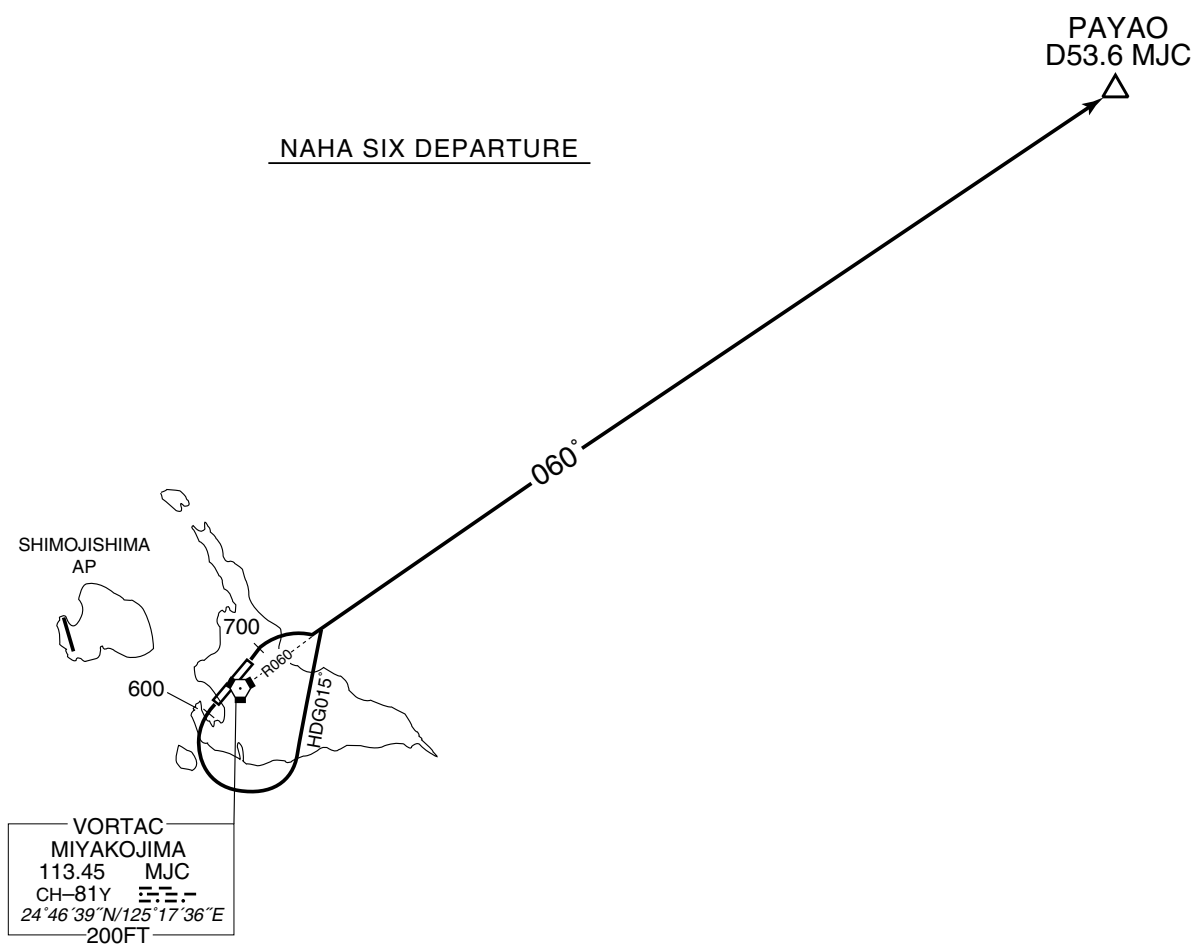
STANDARD DEPARTURE CHART -INSTRUMENT

ROMY / MIYAKO

SID

NAHA SIX DEPARTURE

RWY 04 : Climb RWY HDG to 700FT, turn right...

RWY 22 : Climb RWY HDG to 600FT, turn left HDG015°...
... to intercept and proceed via MJC R060 to PAYAO.

STANDARD DEPARTURE CHART -INSTRUMENT

ROMY / MIYAKO

SID

WEST SEVEN DEPARTURE

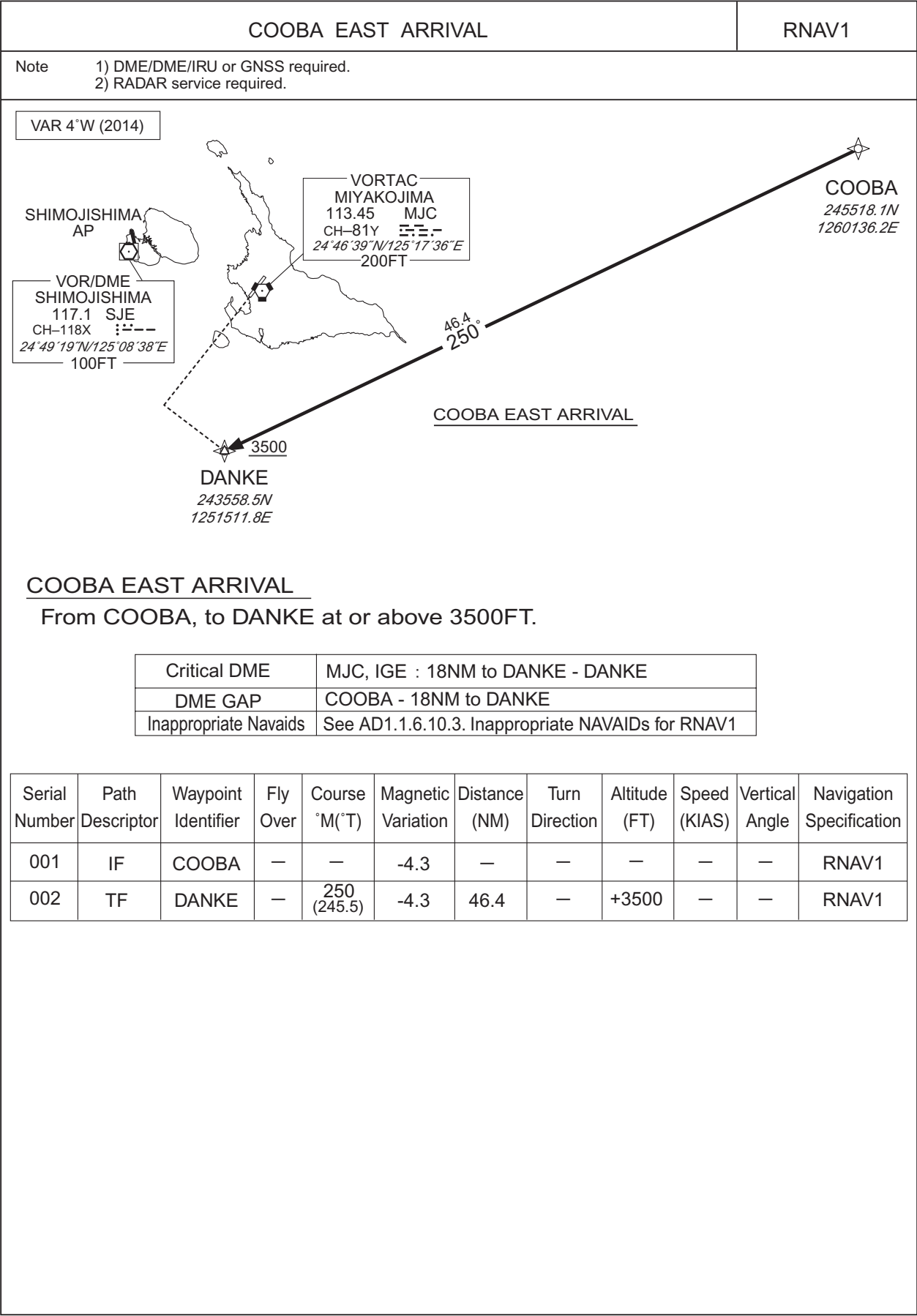
RWY 04 : Climb RWY HDG to 700FT, turn right...
RWY 22 : Climb RWY HDG to 600FT, turn right...
... to intercept and proceed via MJC R253 to SHUJI.
Cross SHUJI at or above 3000FT.



STANDARD ARRIVAL CHART - INSTRUMENT

ROMY / MIYAKO

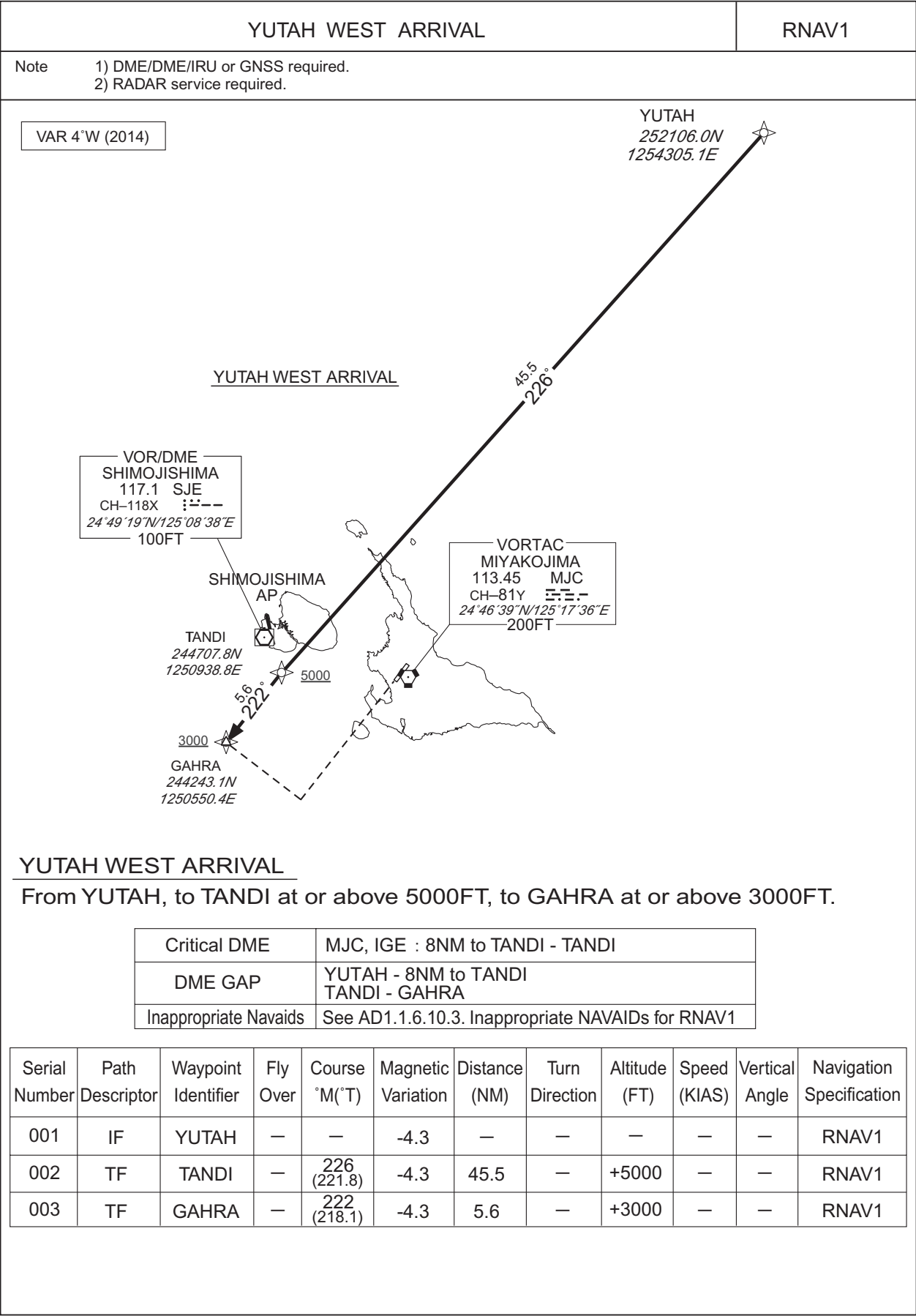
RNAV STAR RWY04



STANDARD ARRIVAL CHART - INSTRUMENT

ROMY / MIYAKO

RNAV STAR RWY04



STANDARD ARRIVAL CHART - INSTRUMENT

ROMY / MIYAKO

RNAV STAR RWY22



STANDARD ARRIVAL CHART - INSTRUMENT

ROMY / MIYAKO

RNAV STAR RWY22



INSTRUMENT APPROACH CHART

ROMY / MIYAKO

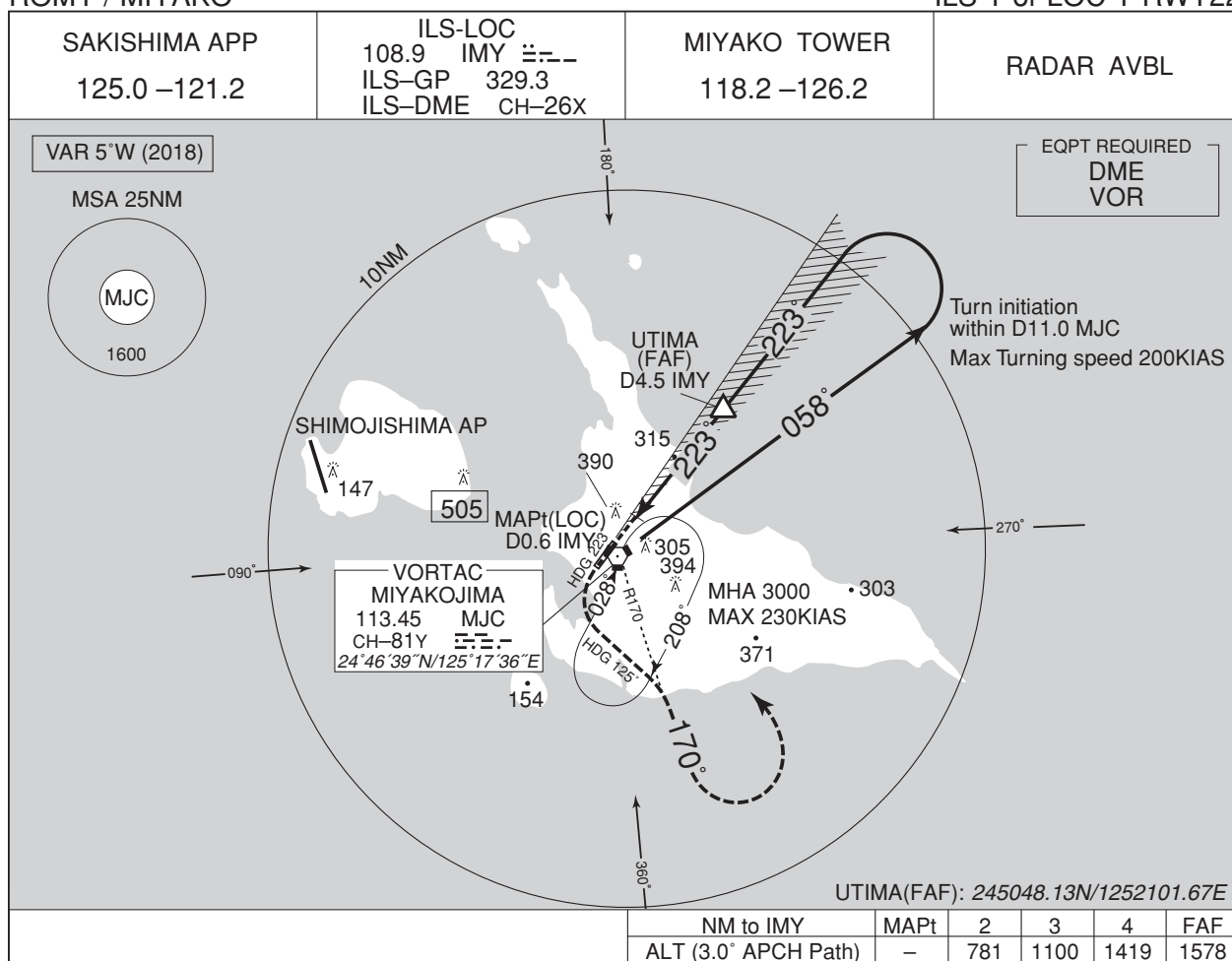
ILS Z or LOC Z RWY22



INSTRUMENT APPROACH CHART

ROMY / MIYAKO

ILS Y or LOC Y RWY22



MISSED APPROACH

Climb to 600FT on HDG 223°, turn left HDG 125° to intercept and proceed via MJC R170 to 2000FT, turn left, direct to MJC VORTAC and hold at 3000FT. Contact SAKISHIMA APP.

Timing not authorized for defining the MAPt.



DME to IMY	0.2	0.6	1.4	2.5	4.5
NM to THR	0	0.4	1.3	2.4	4.3

MINIMA		THR elev. 150		AD elev. 140		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	350 (200)	550	580 (440)	900	710 (570)	1600
B				1000		2400
C						
D						

INSTRUMENT APPROACH CHART

ROMY / MIYAKO

VOR RWY04



INSTRUMENT APPROACH CHART

ROMY / MIYAKO

VOR RWY22



INSTRUMENT APPROACH CHART

ROMY / MIYAKO

RNAV(GNSS) Z RWY04



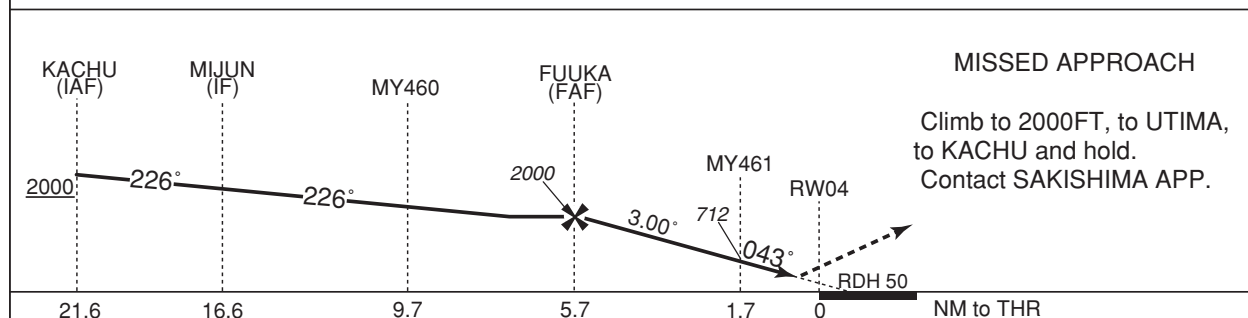
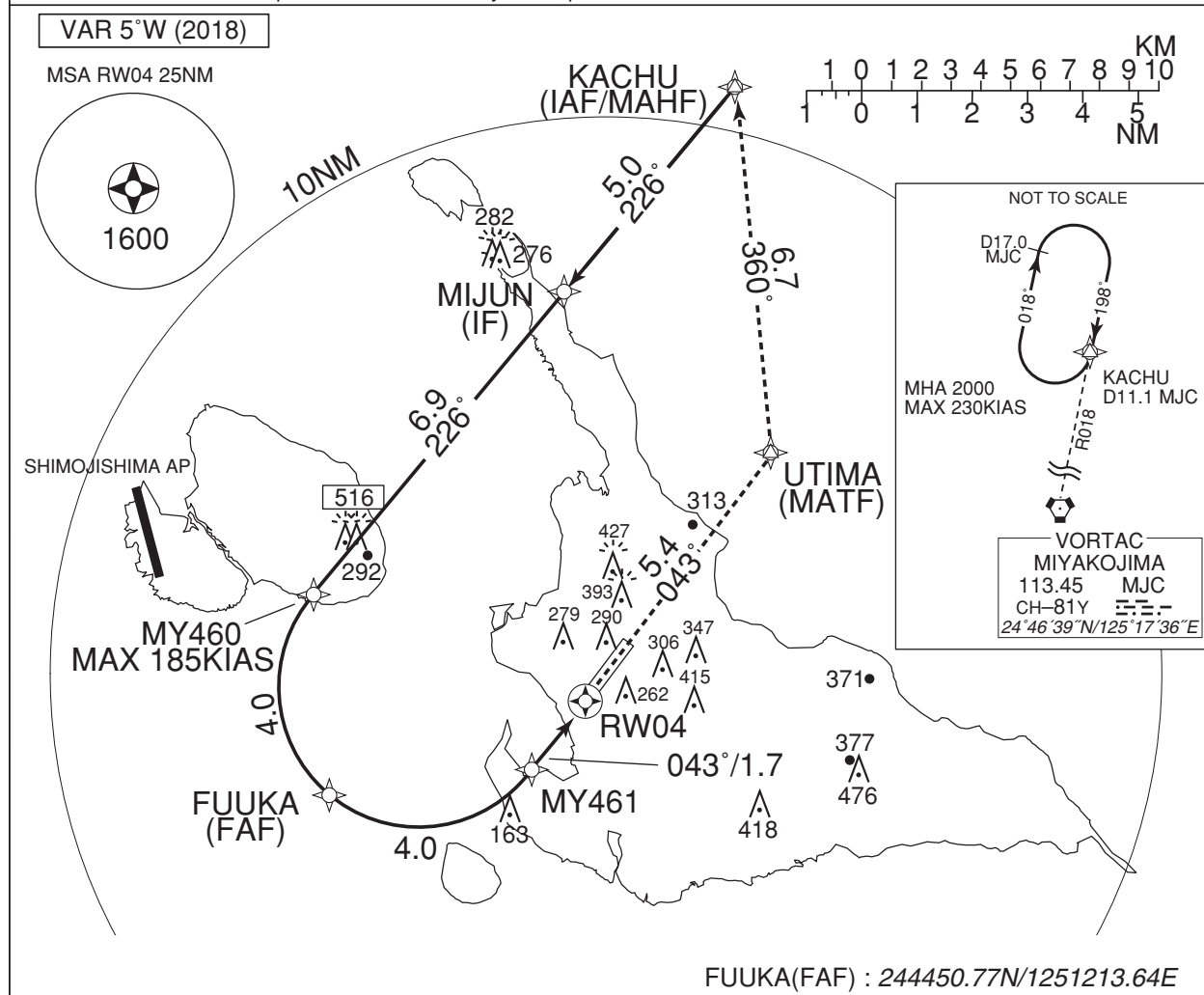
INSTRUMENT APPROACH CHART

ROMY / MIYAKO

RNAV(RNP) Y RWY04

SAKISHIMA APP 125.0 –121.2	GNSS and RF required.	MIYAKO TOWER 118.2 –126.2	RADAR AVBL
-------------------------------	-----------------------	------------------------------	------------

For uncompensated Baro-VNAV systems, procedure not authorized below 0°C / above 45°C



MINIMA	THR elev.124	AD elev.140
CAT	RNP 0.29	RNP 0.30
A	DA(H)	CMV
B	—	—
C	424 (300)	1400
D	1600	1600

RNP AR

Special Authorization Required

INSTRUMENT APPROACH CHART

ROMY / MIYAKO

RNAV(RNP) Y RWY04

RNAV(RNP) Y RWY04Coding 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	KACHU	—	—	-4.8	—	—	+2000	—	—	—
002	TF	MIJUN	—	226 (220.8)	-4.8	5.0	—	—	—	—	1.0
003	TF	MY460	—	226 (220.7)	-4.8	6.9	—	+2000	-185	—	1.0
004	RF Center: MYRF1 r=2.52NM	FUUKA	—	—	-4.8	4.0	L	2000	—	—	1.0
005	RF Center: MYRF1 r=2.52NM	MY461	—	—	-4.8	4.0	L	712	—	-3.00	0.29 0.30
006	TF	RW04	Y	043 (038.1)	-4.8	1.7	—	174	—	-3.00/50	0.29 0.30
007	TF	UTIMA	—	043 (038.2)	-4.8	5.4	—	—	—	—	1.0
008	TF	KACHU	—	360 (355.6)	-4.8	6.7	—	2000	—	—	1.0

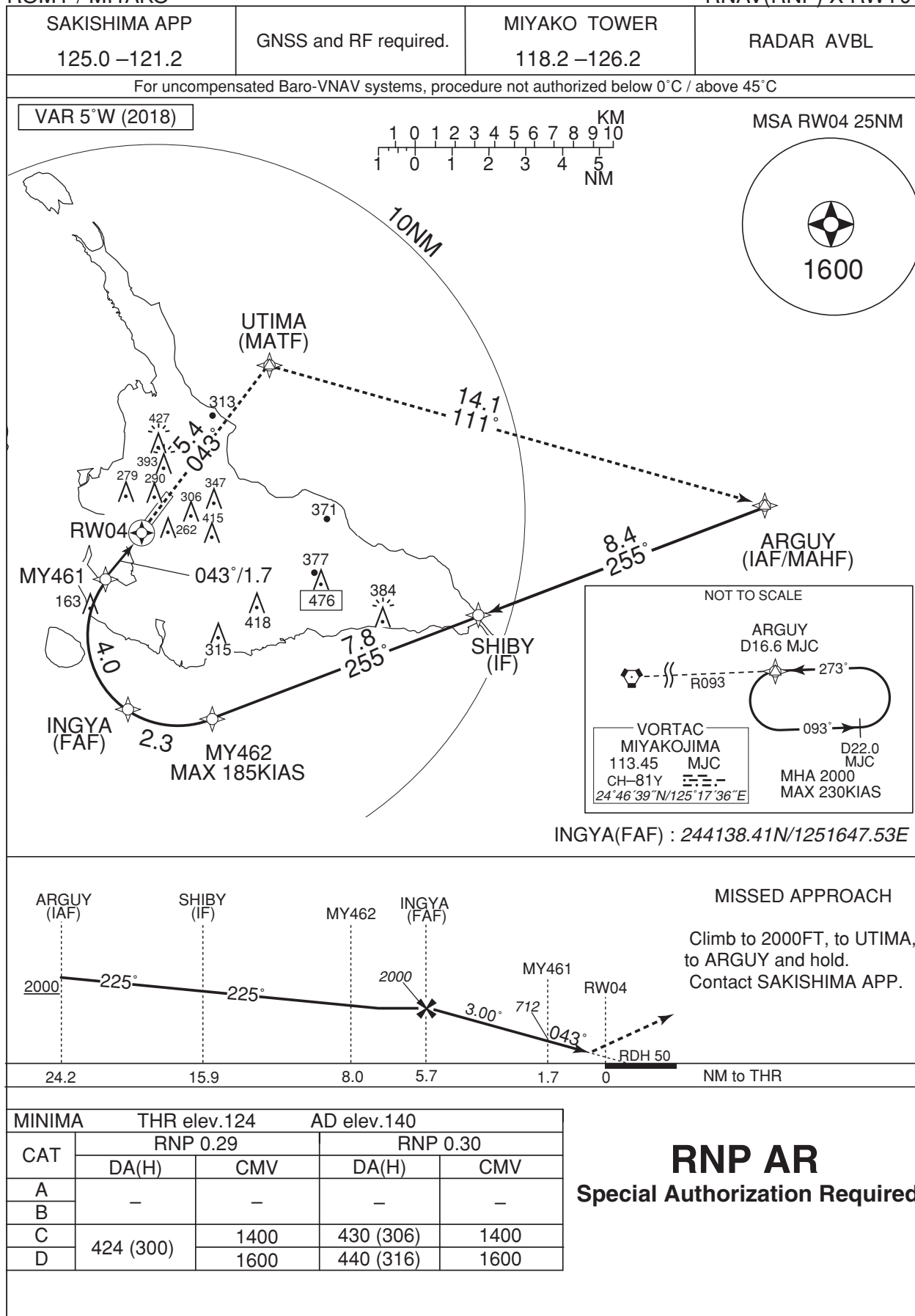
Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
KACHU	245726.14N/1252027.95E	MYRF1	244646.77N/1251400.81E
MIJUN	245338.80N/1251651.84E		
MY460	244826.09N/1251155.10E		
FUUKA	244450.77N/1251213.64E		
MY461	244512.72N/1251611.26E		
RW04	244632.65N/1251720.41E		
UTIMA	245048.13N/1252101.67E		

INSTRUMENT APPROACH CHART

ROMY / MIYAKO

RNAV(RNP) X RWY04



INSTRUMENT APPROACH CHART

ROMY / MIYAKO

RNAV(RNP) X RWY04

RNAV(RNP) X RWY04Coding 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	ARGUY	—	—	-4.8	—	—	+2000	—	—	—
002	TF	SHIBY	—	255 (250.0)	-4.8	8.4	—	—	—	—	1.0
003	TF	MY462	—	255 (250.0)	-4.8	7.8	—	+2000	-185	—	1.0
004	RF Center: MYRF2 r=2.46NM	INGYA	—	—	-4.8	2.3	R	2000	—	—	1.0
005	RF Center: MYRF2 r=2.46NM	MY461	—	—	-4.8	4.0	R	712	—	-3.00	0.29 0.30
006	TF	RW04	Y	043 (038.1)	-4.8	1.7	—	174	—	-3.00/50	0.29 0.30
007	TF	UTIMA	—	043 (038.2)	-4.8	5.4	—	—	—	—	1.0
008	TF	ARGUY	—	111 (106.1)	-4.8	14.1	—	2000	—	—	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
ARGUY	244652.87N/1253554.53E	MYRF2	244340.95N/1251818.44E
SHIBY	244401.74N/1252716.29E		
MY462	244121.83N/1251913.79E		
INGYA	244138.41N/1251647.53E		
MY461	244512.72N/1251611.26E		
RW04	244632.65N/1251720.41E		
UTIMA	245048.13N/1252101.67E		

Visual REP



Call sign	BRG / DIST from ARP	Remarks
10NM NORTH EAST	045°/10.0NM	海上 Over the sea
大 神 島 Ohgamijima	009°/ 8.0NM	島 Island
来 間 島 Kurimashima	220°/ 4.5NM	島 Island
平 安 名 崎 Hennazaki	115°/10.0NM	灯台 Lighthouse

ROMY / MIYAKO

Minimum Vectoring Altitude CHART

VAR 4°W (2013)



CENTER : 244938N/1250827E (RORS RADAR SITE)
 CENTER : 242310N/1241441E (ROIG RADAR SITE)

*1 : 244015N/1244143E RADIUS : 3NM
 *2 : 242248N/1240952E RADIUS : 3NM
 *3 : 242538N/1241100E RADIUS : 5NM