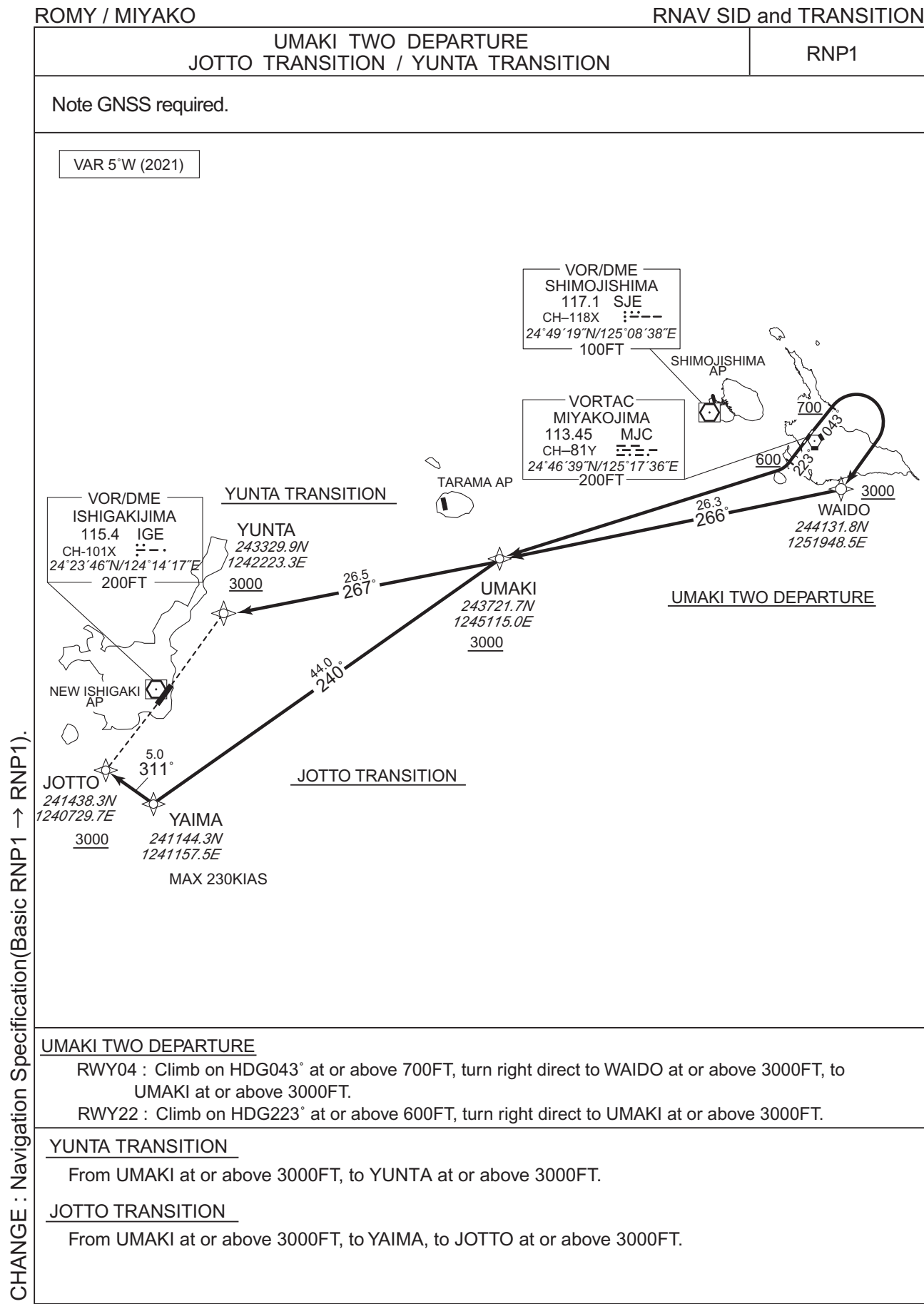


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STANDARD DEPARTURE CHART -INSTRUMENT



CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART -INSTRUMENT

ROMY / MIYAKO

RNAV SID and TRANSITION

UMAKI 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)	-5.1	-	-	+700	-	-	RNP1
002	DF	WAIDO	-	-	-5.1	-	R	+3000	-	-	RNP1
003	TF	UMAKI	-	266 (261.0)	-5.1	26.3	-	+3000	-	-	RNP1

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)	-5.1	-	-	+600	-	-	RNP1
002	DF	UMAKI	-	-	-5.1	-	R	+3000	-	-	RNP1

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	-	-	-5.1	-	-	+3000	-	-	RNP1
002	TF	YUNTA	-	267 (261.7)	-5.1	26.5	-	+3000	-	-	RNP1

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	-	-	-5.1	-	-	+3000	-	-	RNP1
002	TF	YAIMA	-	240 (234.5)	-5.1	44.0	-	-	-230	-	RNP1
003	TF	JOTTO	-	311 (305.5)	-5.1	5.0	-	+3000	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART -INSTRUMENT

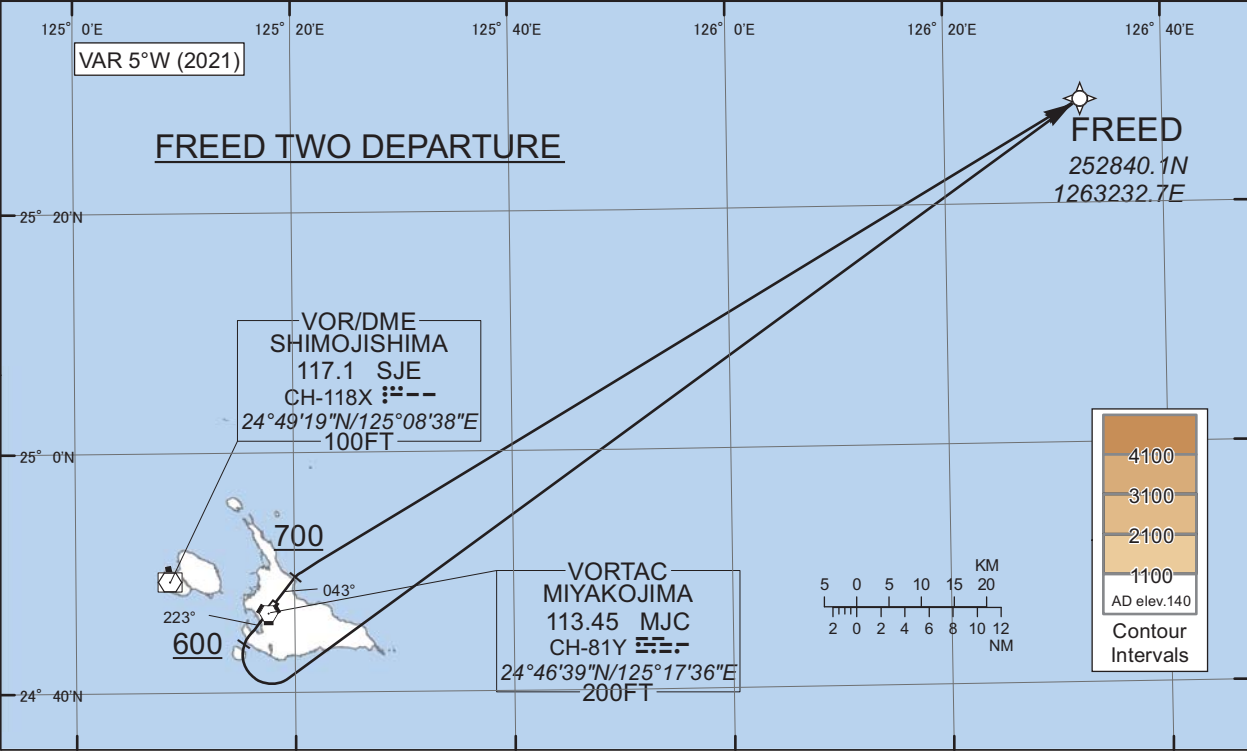
ROMY / MIYAKO

RNAV SID

FREED TWO DEPARTURE

RNP1

Note GNSS required.



FREED TWO DEPARTURE

RWY04 : Climb on HDG043° at or above 700FT, turn right direct to FREED.
RWY22 : Climb on HDG223° at or above 600FT, turn left direct to FREED.

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

RWY04

Serial Number	Path Descriptor	Way point 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)	-5.1	-	-	+700	-	-	RNP1
002	DF	FREED	-	-	-5.1	-	R	-	-	-	RNP1

RWY22

Serial Number	Path Descriptor	Way point 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)	-5.1	-	-	+600	-	-	RNP1
002	DF	FREED	-	-	-5.1	-	L	-	-	-	RNP1

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.



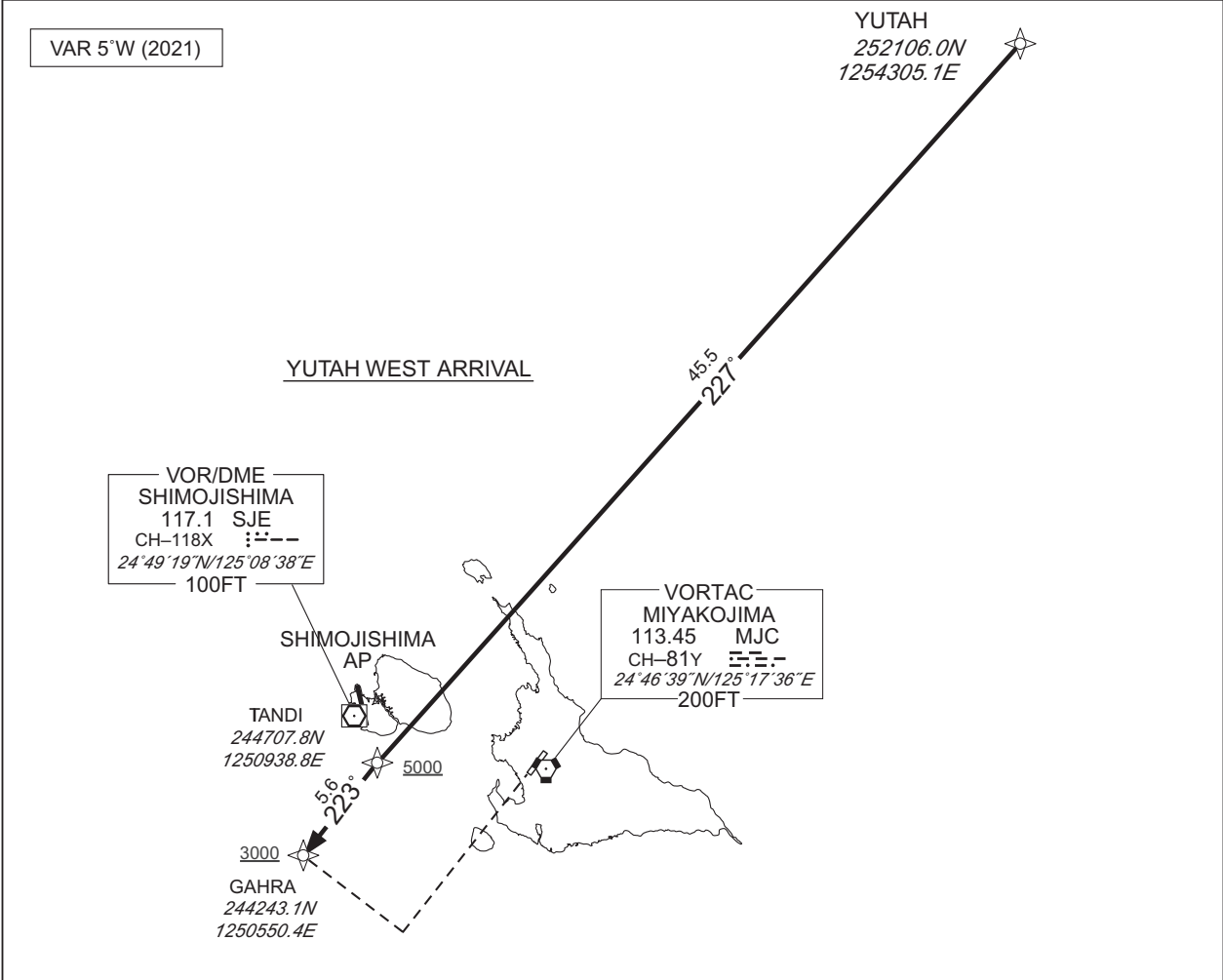
STANDARD ARRIVAL CHART - INSTRUMENT

ROMY / MIYAKO

RNAV STAR RWY04

YUTAH WEST ARRIVAL	RNP1
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Note GNSS required.



YUTAH WEST ARRIVAL

From YUTAH, to TANDI at or above 5000FT, to GAHRA at or above 3000FT.

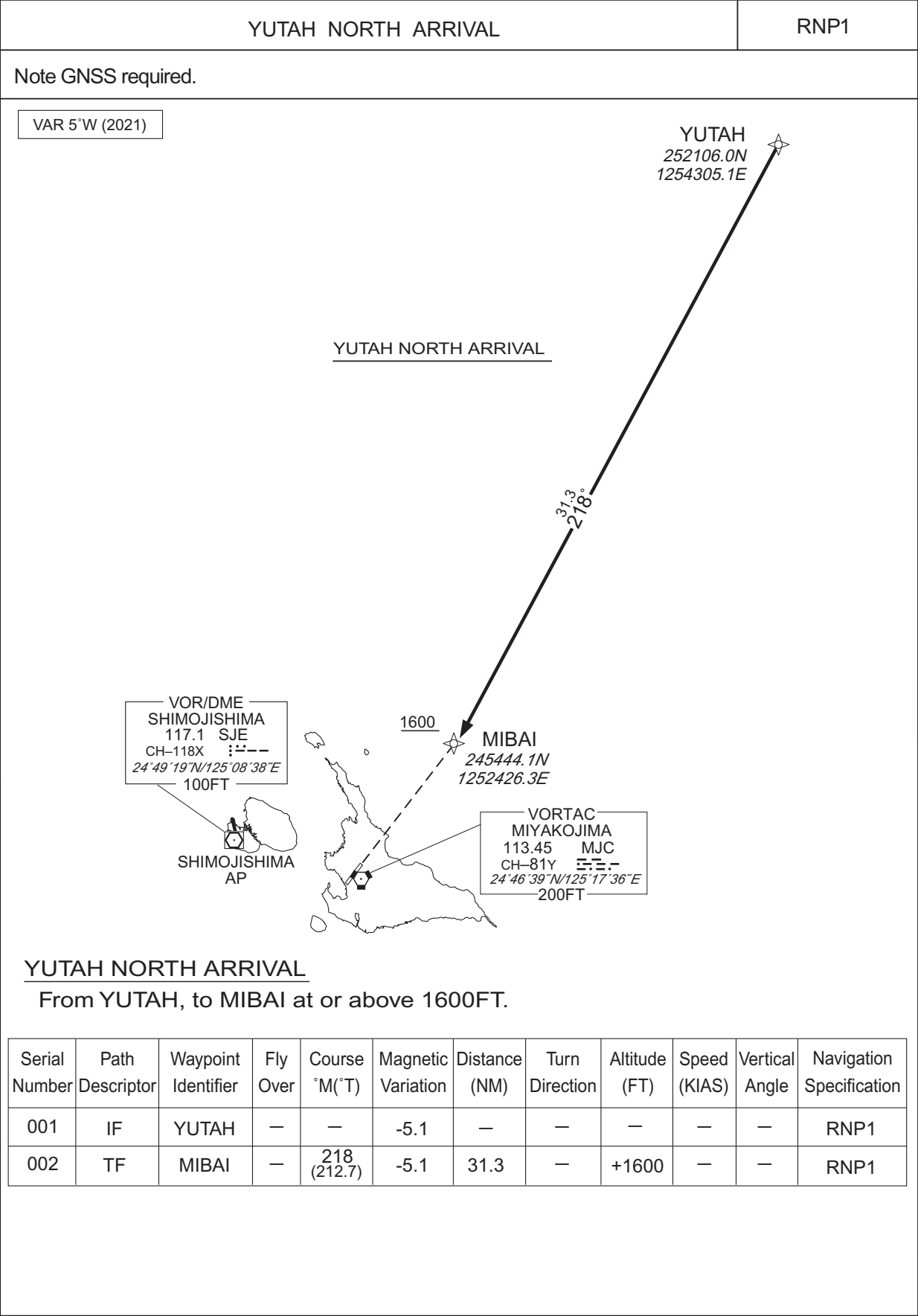
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	YUTAH	—	—	-5.1	—	—	—	—	—	RNP1
002	TF	TANDI	—	227 (221.8)	-5.1	45.5	—	+5000	—	—	RNP1
003	TF	GAHRA	—	223 (218.1)	-5.1	5.6	—	+3000	—	—	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD ARRIVAL CHART - INSTRUMENT

ROMY / MIYAKO

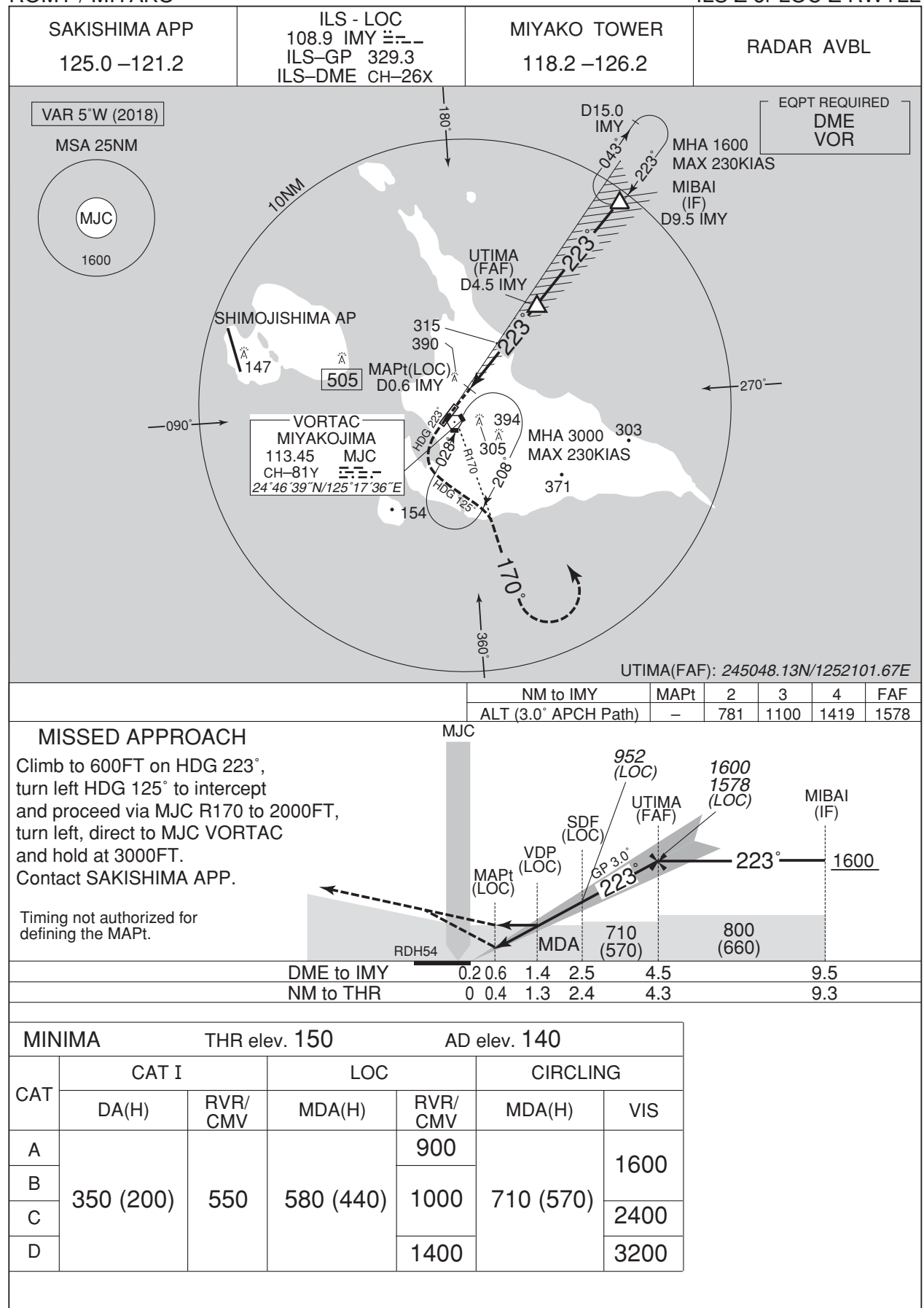
RNAV STAR RWY22



INSTRUMENT APPROACH CHART

ROMY / MIYAKO

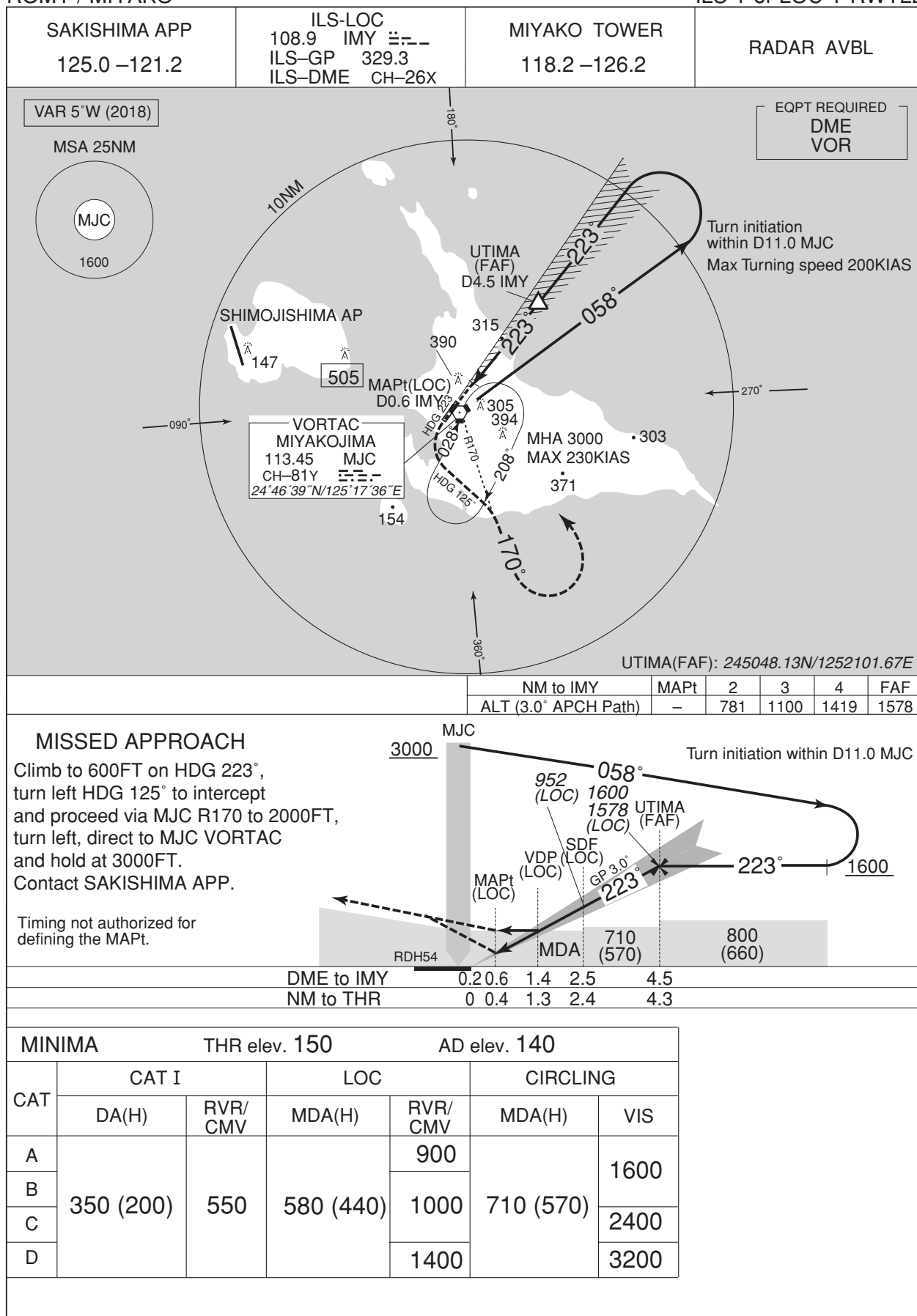
ILS Z or LOC Z RWY22



INSTRUMENT APPROACH CHART

ROMY / MIYAKO

ILS Y or LOC Y RWY22



INSTRUMENT APPROACH CHART

ROMY / MIYAKO

VOR RWY04



INSTRUMENT APPROACH CHART

ROMY / MIYAKO

VOR RWY22



INSTRUMENT APPROACH CHART

ROMY / MIYAKO

RNP Z RWY04



CHANGE:PROC renamed. Requirement for RNP.

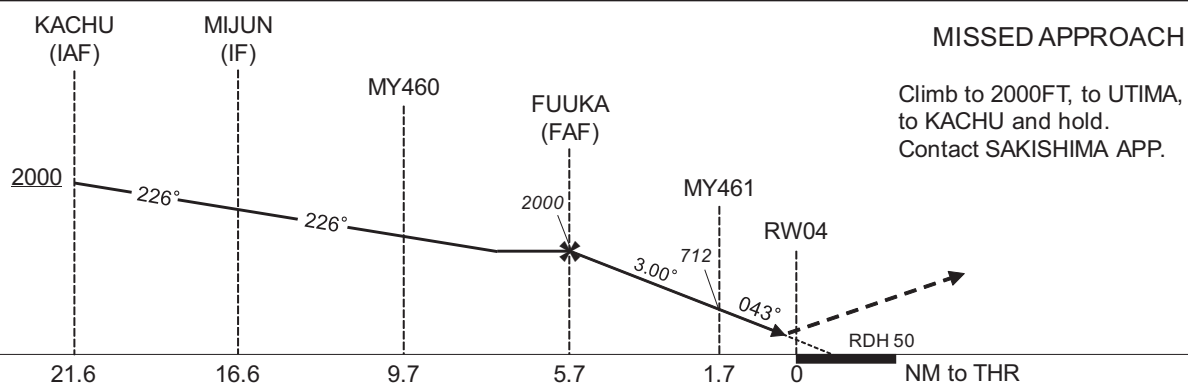
ROMY / MIYAKO

RNP Y RWY04(AR)

SAKISHIMA APP 125.0 - 121.2	RNP AR RF required.	MIYAKO TOWER 118.2 - 126.2	RADAR AVBL
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The map displays the Kachuchan area with the following details:

- VAR 5°W (2022)** and **MSA RW04 25 NM** are noted in the top left.
- A circular inset shows a compass rose and the number **1600**.
- A scale bar at the top right indicates distances from 1 to 10 NM.
- A note in the top right states **NOT TO SCALE** and includes a diagram of a 1-minute turn with headings **019°** and **199°** around a star symbol labeled **KACHU**. Below this, it specifies **MHA 2000** and **MAX 230KIAS**.
- The map shows several navigation aids and altitudes:
 - SHIMOJISHIMA AP** with a bearing of **516** and a maximum speed of **MAX 185KIAS**.
 - MIJUN (IF)** with a bearing of **282** and an altitude of **276**.
 - UTIMA (MATF)** with a bearing of **314** and an altitude of **347**.
 - RW04** with a bearing of **279** and an altitude of **290**.
 - FUUKA (FAF)** with a bearing of **427** and an altitude of **393**.
 - MY460** with a bearing of **293** and an altitude of **306**.
 - MY461** with a bearing of **372** and an altitude of **476**.
 - MY462** with a bearing of **377** and an altitude of **476**.
 - MY463** with a bearing of **372** and an altitude of **476**.
 - MY464** with a bearing of **377** and an altitude of **476**.
 - MY465** with a bearing of **372** and an altitude of **476**.
 - MY466** with a bearing of **377** and an altitude of **476**.
 - MY467** with a bearing of **372** and an altitude of **476**.
 - MY468** with a bearing of **377** and an altitude of **476**.
 - MY469** with a bearing of **372** and an altitude of **476**.
 - MY470** with a bearing of **377** and an altitude of **476**.
 - MY471** with a bearing of **372** and an altitude of **476**.
 - MY472** with a bearing of **377** and an altitude of **476**.
 - MY473** with a bearing of **372** and an altitude of **476**.
 - MY474** with a bearing of **377** and an altitude of **476**.
 - MY475** with a bearing of **372** and an altitude of **476**.
 - MY476** with a bearing of **377** and an altitude of **476**.
 - MY477** with a bearing of **372** and an altitude of **476**.
 - MY478** with a bearing of **377** and an altitude of **476**.
 - MY479** with a bearing of **372** and an altitude of **476**.
 - MY480** with a bearing of **377** and an altitude of **476**.
 - MY481** with a bearing of **372** and an altitude of **476**.
 - MY482** with a bearing of **377** and an altitude of **476**.
 - MY483** with a bearing of **372** and an altitude of **476**.
 - MY484** with a bearing of **377** and an altitude of **476**.
 - MY485** with a bearing of **372** and an altitude of **476**.
 - MY486** with a bearing of **377** and an altitude of **476**.
 - MY487** with a bearing of **372** and an altitude of **476**.
 - MY488** with a bearing of **377** and an altitude of **476**.
 - MY489** with a bearing of **372** and an altitude of **476**.
 - MY490** with a bearing of **377** and an altitude of **476**.
 - MY491** with a bearing of **372** and an altitude of **476**.
 - MY492** with a bearing of **377** and an altitude of **476**.
 - MY493** with a bearing of **372** and an altitude of **476**.
 - MY494** with a bearing of **377** and an altitude of **476**.
 - MY495** with a bearing of **372** and an altitude of **476**.
 - MY496** with a bearing of **377** and an altitude of **476**.
 - MY497** with a bearing of **372** and an altitude of **476**.
 - MY498** with a bearing of **377** and an altitude of **476**.
 - MY499** with a bearing of **372** and an altitude of **476**.
 - MY500** with a bearing of **377** and an altitude of **476**.
- A legend in the bottom left shows a color-coded altitude scale: **2100**, **1600**, **1100**, and **600**, with a note **AD elev. 140** and **Contour Intervals**.
- The map includes a coordinate grid with latitude and longitude markings.
- The text **FUUKA(FAF) :244450.77N/1251213.64E** is at the bottom.



MINIMA	THR elev. 124		AD elev. 140	
CAT	RNP 0.29		RNP 0.30	
	DA(H)	CMV	DA(H)	CMV
A	-	-	-	-
B				
C	424(300)	1400	430(306)	1400
D		1600	440(316)	1600

Authorization Required

11/8/22

INSTRUMENT APPROACH CHART

ROMY / MIYAKO

RNP Y RWY04(AR)

Coding 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	-	-	-5.2	-	-	+2000	-	-	-
002	TF	MIJUN	-	226 (220.8)	-5.2	5.0	-	-	-	-	1.0
003	TF	MY460	-	226 (220.7)	-5.2	6.9	-	+2000	-185	-	1.0
004	RF Center: MYRF1 r=2.52NM	FUUKA	-	-	-5.2	4.0	L	2000	-	-	1.0
005	RF Center: MYRF1 r=2.52NM	MY461	-	-	-5.2	4.0	L	712	-	-3.00	0.29 0.30
006	TF	RW04	Y	043 (038.1)	-5.2	1.7	-	174	-	-3.00/50	0.29 0.30
007	TF	UTIMA	-	043 (038.2)	-5.2	5.4	-	-	-	-	1.0
008	TF	KACHU	-	001 (355.6)	-5.2	6.7	-	2000	-	-	1.0

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	RNP Value
Hold	KACHU	199 (193.5)	-5.2	1.0 (-14000)	R	2000	FL140	-230 (-14000)	1.0

Waypoint Coordinates

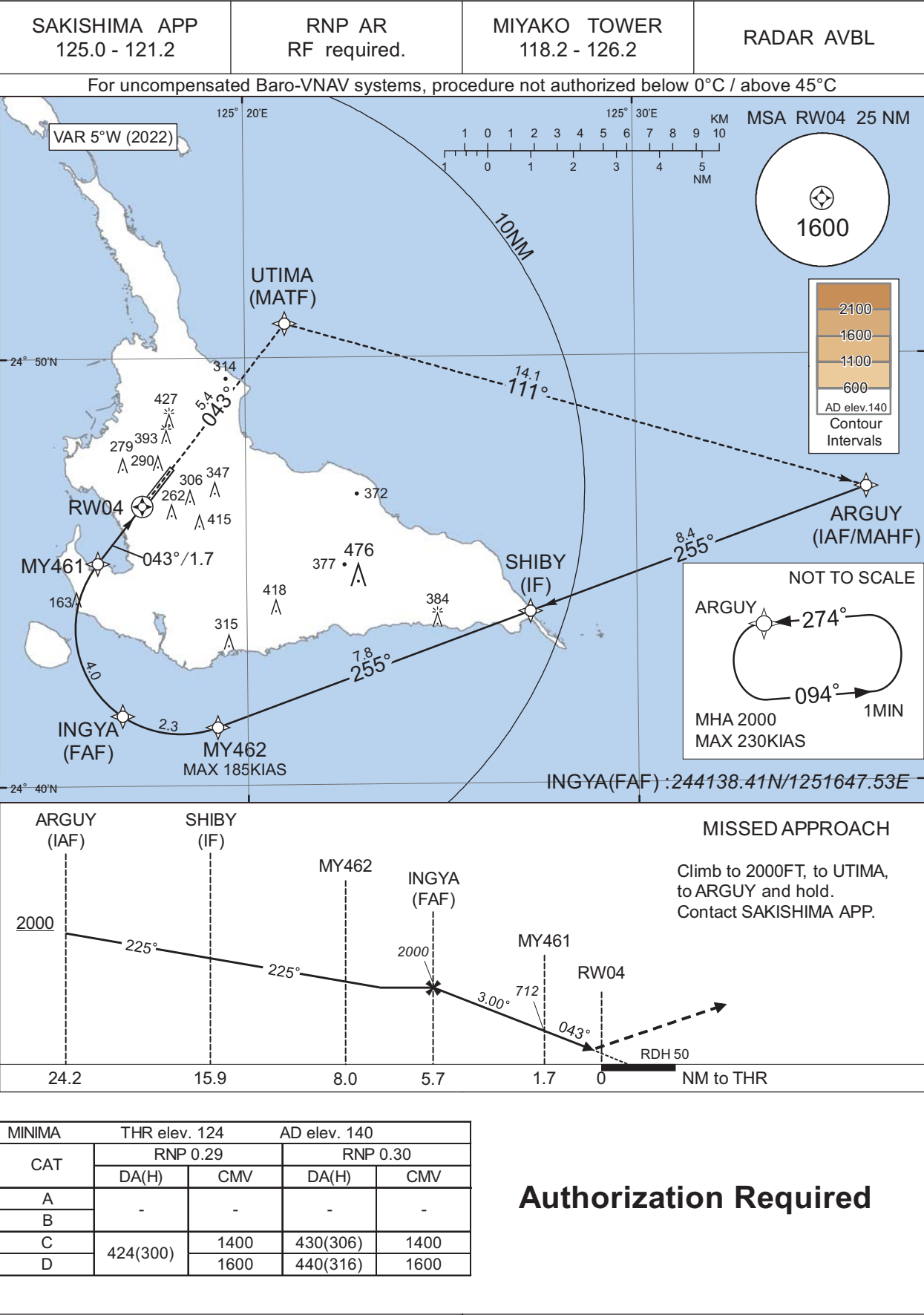
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
KACHU	245726.14N / 1252027.95E	MYRF1	244646.77N / 1251400.81E
MIJUN	245338.80N / 1251651.84E		
MY460	244826.09N / 1251155.10E		
FUUKA	244450.77N / 1251213.64E		
MY461	244512.72N / 1251611.26E		
RW04	244632.65N / 1251720.41E		
UTIMA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

CHANGE : PROC renamed.

INSTRUMENT APPROACH CHART

ROMY / MIYAKO

RNP X RWY04(AR)



CHANGE : PROC renamed. Requirement for RNP.

INSTRUMENT APPROACH CHART

ROMY / MIYAKO

RNP X RWY04(AR)

Coding 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	-	-	-5.2	-	-	+2000	-	-	-
002	TF	SHIBY	-	255 (250.0)	-5.2	8.4	-	-	-	-	1.0
003	TF	MY462	-	255 (250.0)	-5.2	7.8	-	+2000	-185	-	1.0
004	RF Center: MYRF2 r=2.46NM	INGYA	-	-	-5.2	2.3	R	2000	-	-	1.0
005	RF Center: MYRF2 r=2.46NM	MY461	-	-	-5.2	4.0	R	712	-	-3.00	0.29 0.30
006	TF	RW04	Y	043 (038.1)	-5.2	1.7	-	174	-	-3.00/50	0.29 0.30
007	TF	UTIMA	-	043 (038.2)	-5.2	5.4	-	-	-	-	1.0
008	TF	ARGUY	-	111 (106.1)	-5.2	14.1	-	2000	-	-	1.0

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	RNP Value
Hold	ARGUY	274 (269.3)	-5.2	1.0 (-14000)	L	2000	FL140	-230 (-14000)	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		

CHANGE : PROC renamed.



ROMY / MIYAKO

Minimum Vectoring Altitude CHART

