

## STANDARD DEPARTURE CHART -INSTRUMENT

RJSK / AKITA

SID

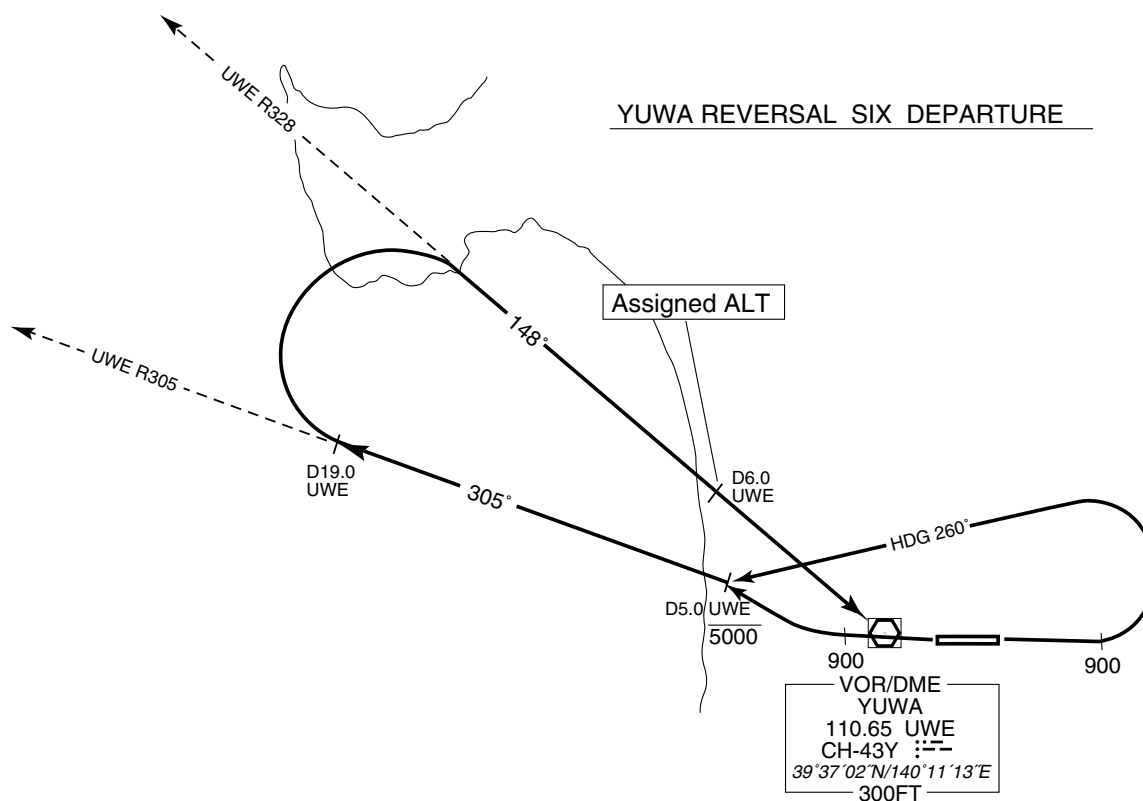
YUWA REVERSAL SIX DEPARTURE

RWY 10 : Climb RWY HDG to 900FT, turn left HDG260°...

RWY 28 : Climb RWY HDG to 900FT, turn right ...

...to intercept and proceed via UWE R305 to 19.0DME, turn right to intercept and proceed via UWE R328 to UWE VOR/DME.

Cross UWE R305/5.0DME at or below 5000FT, cross UWE R328/6.0DME at assigned altitude.



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MAGGY ONE DEPARTURE

RWY10 : Climb RWY HDG to 900FT, via UWE R105, turn left, via UWE 10.8DME counterclockwise ARC to intercept and proceed via UWE R028 to MAGGY.

RWY28 : Climb RWY HDG to 900FT, via UWE R285, turn right, via UWE 10.8DME clockwise ARC to intercept and proceed via UWE R028 to MAGGY.

Note RWY10 : 5.0% climb gradient required up to 3300FT.  
OBST ALT 3543FT located at 13.8NM 070° FM end of RWY10.

CHOKA ONE DEPARTURE

RWY10 : Climb RWY HDG to 900FT, via UWE R105, turn right, via UWE 10.8DME clockwise ARC to intercept and proceed via UWE R182 to CHOKA.

RWY28 : Climb RWY HDG to 900FT, via UWE R285, turn left, via UWE 10.8DME counterclockwise ARC to intercept and proceed via UWE R182 to CHOKA.

YAYOI THREE DEPARTURE

RWY10 : Climb RWY HDG to 900FT, via UWE R105, turn right, via UWE 10.8DME clockwise ARC to intercept and proceed via UWE R215 to YAYOI.

RWY28 : Climb RWY HDG to 900FT, via UWE R285, turn left, via UWE 10.8DME counterclockwise ARC to intercept and proceed via UWE R215 to YAYOI.

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MUTSU ONE DEPARTURE

## RWY10

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	—	—	105 (096.6)	-8.3	—	—	+900	—	—	Basic RNP1
002	DF	SK002	—	—	-8.3	—	L	—	—	—	Basic RNP1
003	TF	MRE	—	031 (023.0)	-8.3	60.9	—	—	—	—	Basic RNP1

## RWY28

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	—	—	285 (276.6)	-8.3	—	—	+900	—	—	Basic RNP1
002	DF	SK002	—	—	-8.3	—	R	—	—	—	Basic RNP1
003	TF	MRE	—	031 (023.0)	-8.3	60.9	—	—	—	—	Basic RNP1

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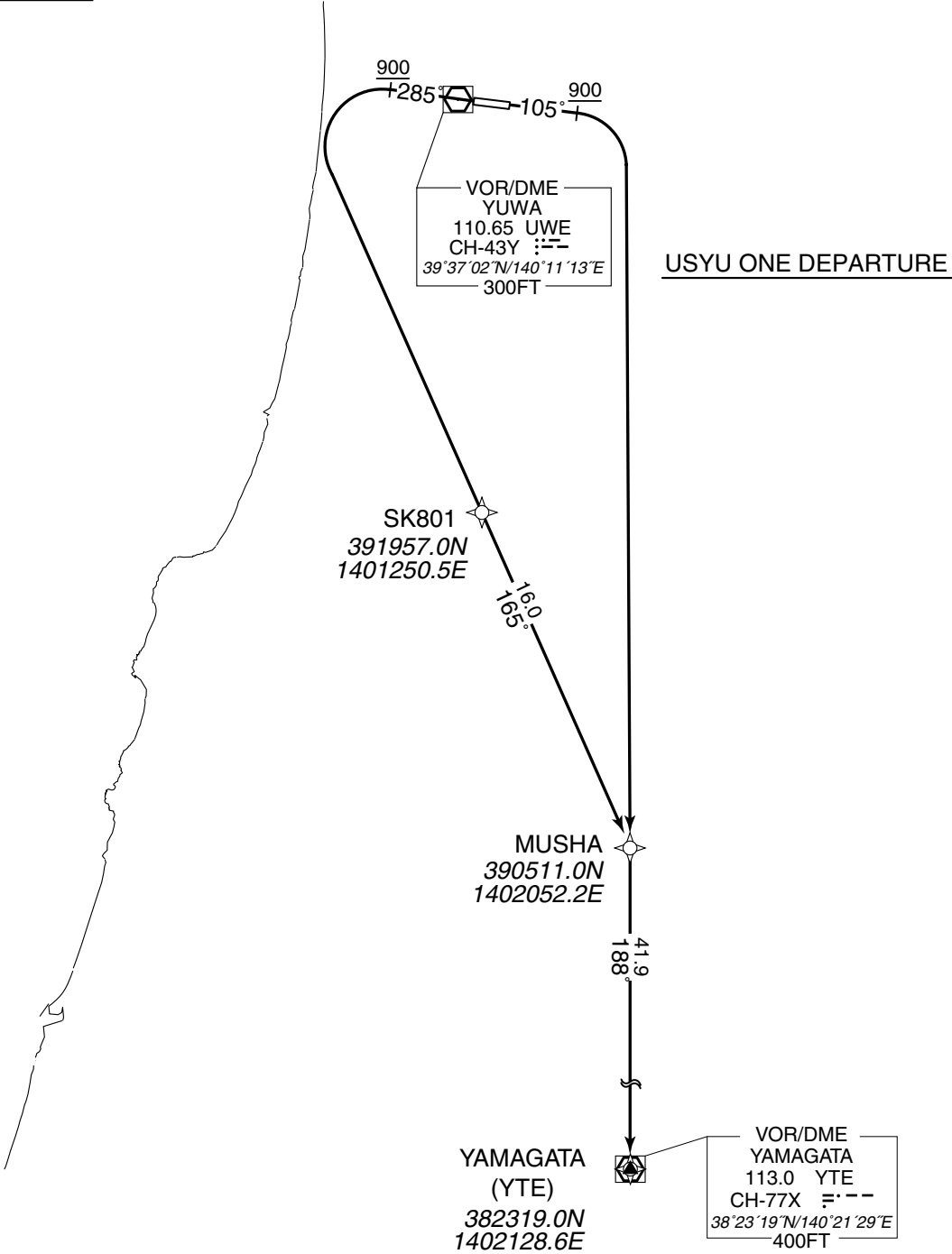
RNAV SID

USYU ONE DEPARTURE

Basic RNP1

Note GNSS required.

VAR 8°W (2013)



USYU ONE DEPARTURE

RWY10 : Climb on HDG 105° at or above 900FT, turn right direct to MUSHHA, to YTE.  
RWY28 : Climb on HDG 285° at or above 900FT, turn left direct to SK801, to MUSHHA, to YTE.

## STANDARD DEPARTURE CHART -INSTRUMENT

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RNAV SID

USYU ONE DEPARTURE

## RWY10

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	—	—	105 (096.6)	-8.3	—	—	+900	—	—	Basic RNP1
002	DF	MUSHA	—	—	-8.3	—	R	—	—	—	Basic RNP1
003	TF	YTE	—	188 (179.3)	-8.3	41.9	—	—	—	—	Basic RNP1

## RWY28

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	—	—	285 (276.6)	-8.3	—	—	+900	—	—	Basic RNP1
002	DF	SK801	—	—	-8.3	—	L	—	—	—	Basic RNP1
003	TF	MUSHA	—	165 (157.1)	-8.3	16.0	—	—	—	—	Basic RNP1
004	TF	YTE	—	188 (179.3)	-8.3	41.9	—	—	—	—	Basic RNP1



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➡ RNAV SID



## STANDARD DEPARTURE CHART -INSTRUMENT

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➔ RNAV SID

NIIGATA ONE DEPARTURE

## RWY10

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	—	—	105 (096.6)	-8.6	—	—	+900	—	—	Basic RNP1
002	DF	SK011	—	—	-8.6	—	—	—	—	—	Basic RNP1
003	TF	SK012	—	195 (186.7)	-8.6	4.5	—	—	—	—	Basic RNP1
004	TF	TARAA	—	242 (233.5)	-8.6	33.4	—	—	—	—	Basic RNP1
005	TF	GTC	—	212 (203.0)	-8.6	80.5	—	—	—	—	Basic RNP1

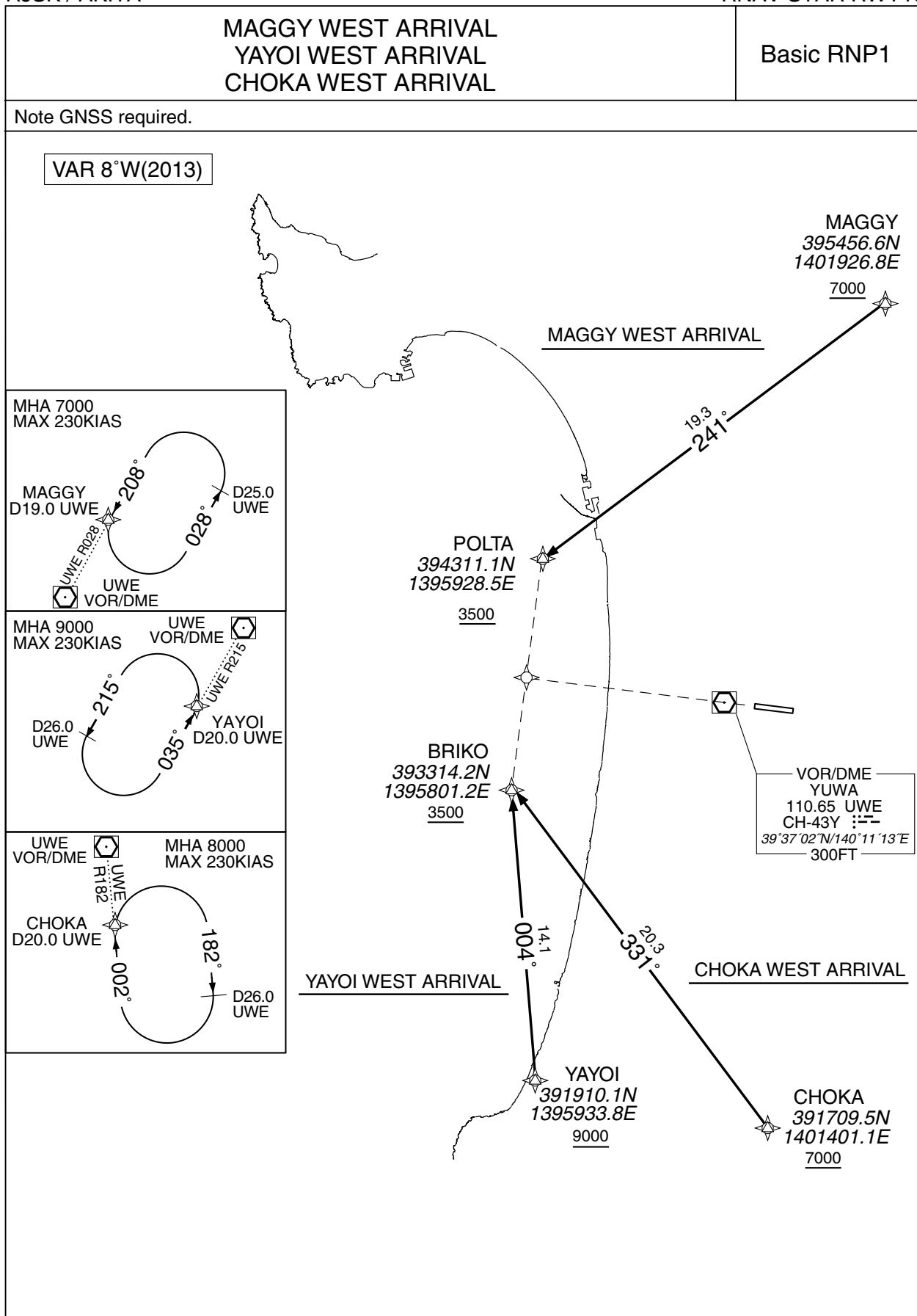
## RWY28

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	—	—	285 (276.6)	-8.6	—	—	+900	—	—	Basic RNP1
002	DF	TARAA	—	—	-8.6	—	—	—	—	—	Basic RNP1
003	TF	GTC	—	212 (203.0)	-8.6	80.5	—	—	—	—	Basic RNP1

STANDARD ARRIVAL CHART-INSTRUMENT

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RNAV STAR RWY10



## STANDARD ARRIVAL CHART-INSTRUMENT

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RNAV STAR RWY10

MAGGY WEST ARRIVAL

From MAGGY at or above 7000FT, to POLTA at or above 3500FT.

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	MAGGY	—	—	-8.3	—	—	+7000	—	—	Basic RNP1
002	TF	POLTA	—	241 (232.6)	-8.3	19.3	—	+3500	—	—	Basic RNP1

YAYOI WEST ARRIVAL

From YAYOI at or above 9000FT, to BRIKO at or above 3500FT.

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	YAYOI	—	—	-8.3	—	—	+9000	—	—	Basic RNP1
002	TF	BRIKO	—	004 (355.2)	-8.3	14.1	—	+3500	—	—	Basic RNP1

CHOKA WEST ARRIVAL

From CHOKA at or above 7000FT, to BRIKO at or above 3500FT.

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	CHOKA	—	—	-8.3	—	—	+7000	—	—	Basic RNP1
002	TF	BRIKO	—	331 (322.5)	-8.3	20.3	—	+3500	—	—	Basic RNP1

STANDARD ARRIVAL CHART-INSTRUMENT

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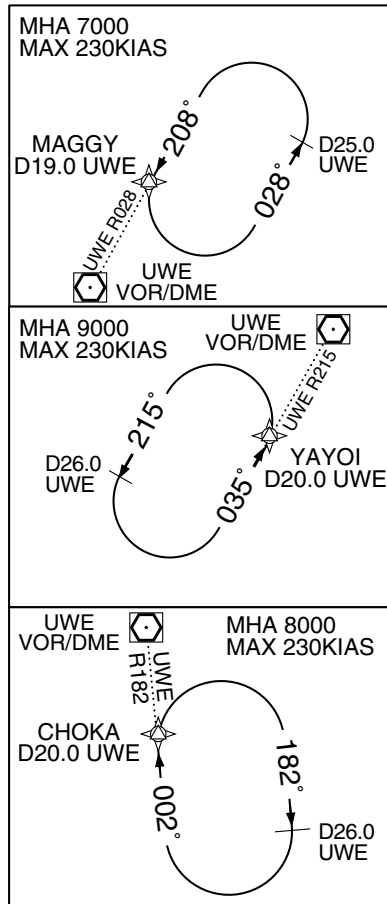
RNAV STAR RWY28

MAGGY EAST ARRIVAL  
YAYOI EAST ARRIVAL  
CHOKA EAST ARRIVAL

Basic RNP1

Note GNSS required.

VAR 8°W(2013)



MAGGY EAST ARRIVAL

MAGGY  
395456.6N  
1401926.8E  
7000

GAKKO  
394338.9N  
1402411.8E  
5000

BIJIN  
393052.6N  
1402425.6E  
4200

YAYOI EAST ARRIVAL

YAYOI  
391910.1N  
1395933.8E  
9000

CHOKA EAST ARRIVAL

CHOKA  
391709.5N  
1401401.1E  
7000

VOR/DME  
YUWA  
110.65 UWE  
CH-43Y  
39°37'02"N/140°11'13"E  
300FT

## STANDARD ARRIVAL CHART-INSTRUMENT

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RNAV STAR RWY28

MAGGY EAST ARRIVAL

From MAGGY at or above 7000FT, to GAKKO at or above 5000FT.

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	MAGGY	—	—	-8.3	—	—	+7000	—	—	Basic RNP1
002	TF	GAKKO	—	170 (162.1)	-8.3	11.9	—	+5000	—	—	Basic RNP1

YAYOI EAST ARRIVAL

From YAYOI at or above 9000FT, to BIJIN at or above 4200FT.

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	YAYOI	—	—	-8.3	—	—	+9000	—	—	Basic RNP1
002	TF	BIJIN	—	067 (058.5)	-8.3	22.5	—	+4200	—	—	Basic RNP1

CHOKA EAST ARRIVAL

From CHOKA at or above 7000FT, to BIJIN at or above 4200FT.

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	CHOKA	—	—	-8.3	—	—	+7000	—	—	Basic RNP1
002	TF	BIJIN	—	039 (030.3)	-8.3	15.9	—	+4200	—	—	Basic RNP1

## STANDARD ARRIVAL CHART-INSTRUMENT

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STAR

## KOANI ARRIVAL

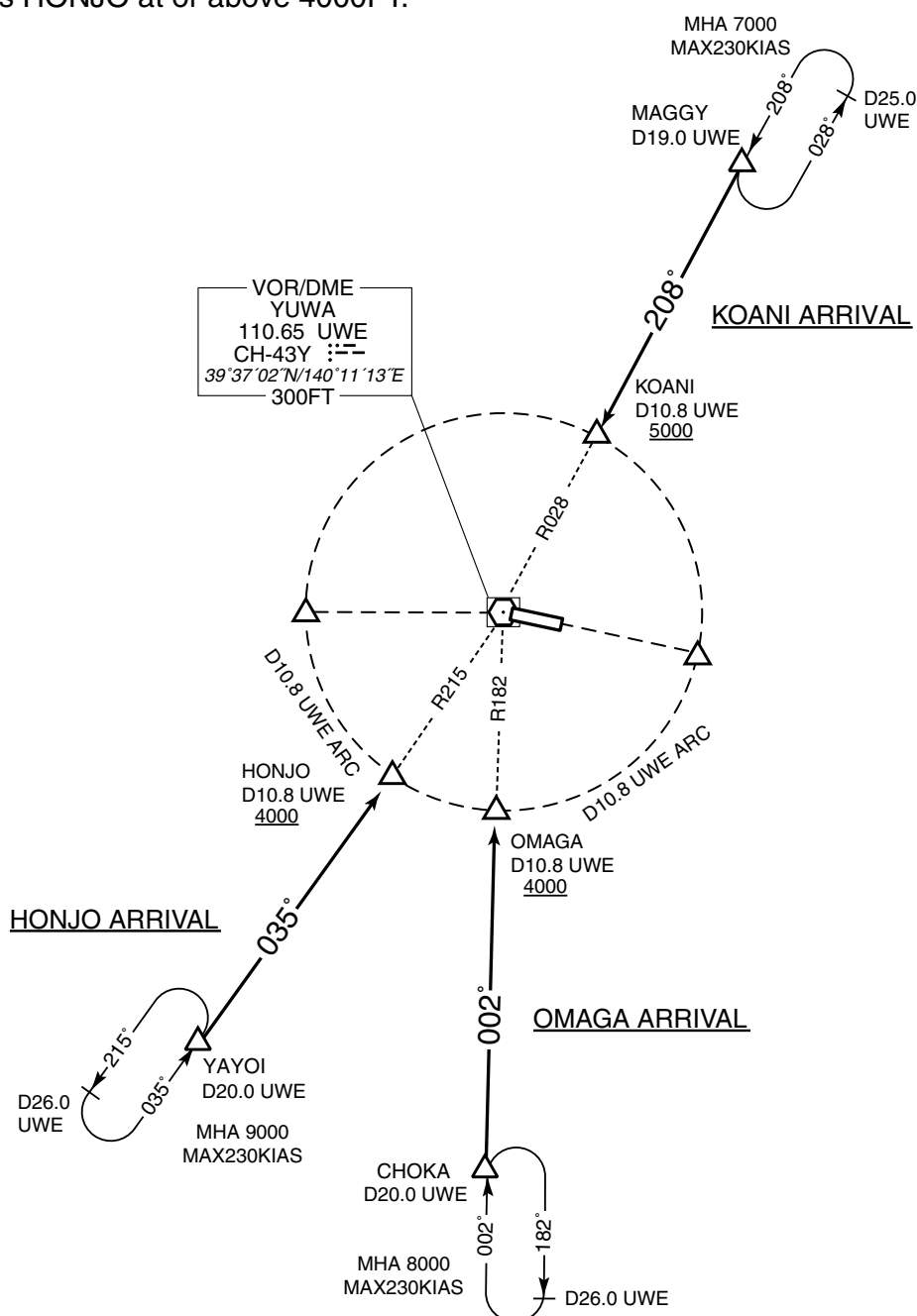
From over MAGGY, via UWE R028 to KOANI.  
Cross KOANI at or above 5000FT.

## OMAGA ARRIVAL

From over CHOKA, via UWE R182 to OMAGA.  
Cross OMAGA at or above 4000FT.

## HONJO ARRIVAL

From over YAYOI, via UWE R215 to HONJO.  
Cross HONJO at or above 4000FT.



## INSTRUMENT APPROACH CHART

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ILS Z or LOC Z RWY28



## MISSED APPROACH

Climb to 800FT on HDG285°,  
via UWE R286 to UWE 4.8DME,  
turn right, direct to UWE  
VOR/DME and hold at 4000FT.  
Contact AKITA TOWER.

Timing not authorized for defining the MAPt.



DME to IUW	0.2	0.7	1.7	3.7	6.1	7.2	8.9
NM to THR	0	0.5	1.5	3.5	5.9	7.0	8.7

## MINIMA

THR elev. 314

AD elev. 305

CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	514 (200)	550	810 (505)	1000	830 (525)	1600
B				1200		
C				1600	900 (595)	2400
D						



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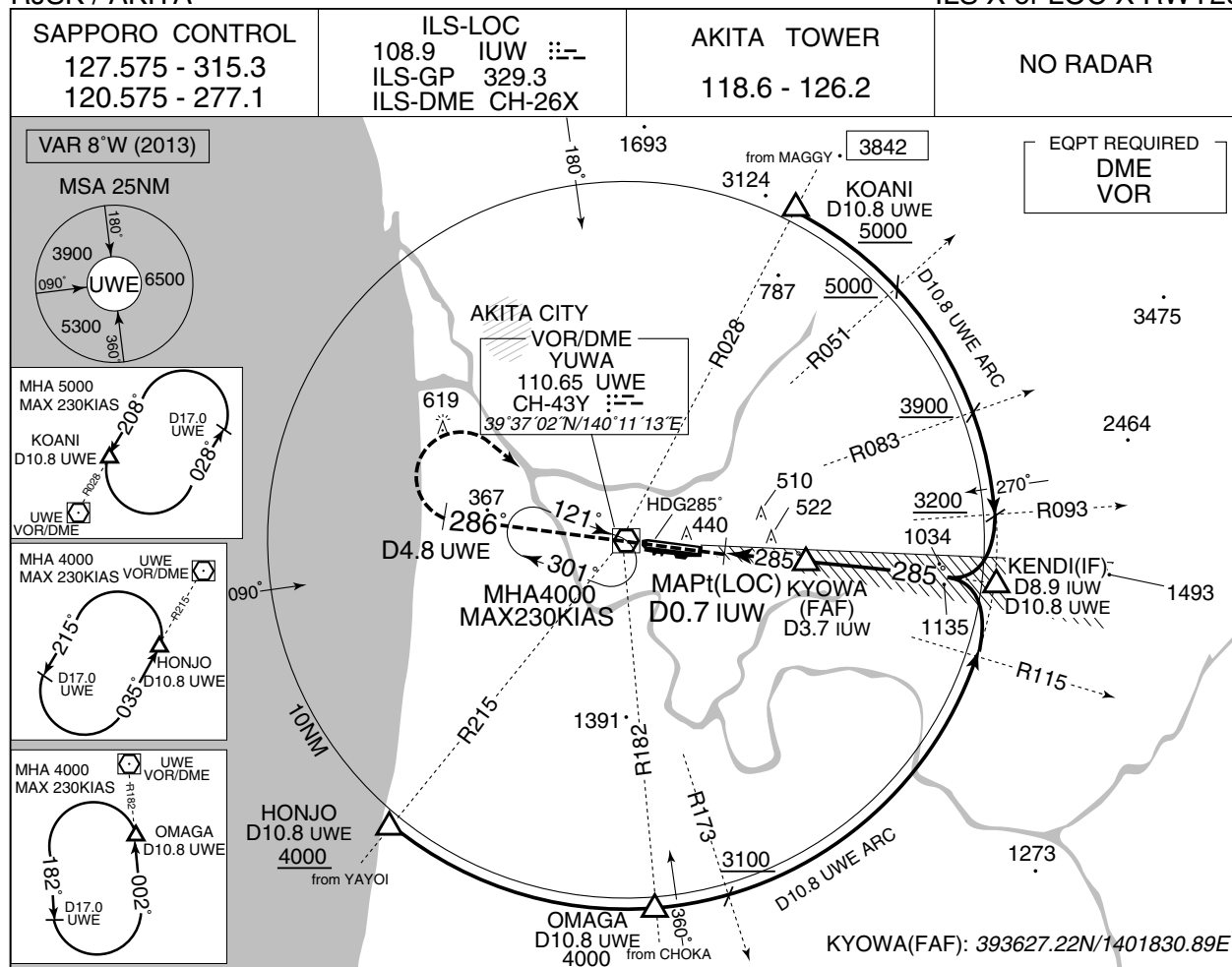
ILS Y or LOC Y RWY28

**25/5/17**

## INSTRUMENT APPROACH CHART

RJSK / AKITA

ILS X or LOC X RWY28

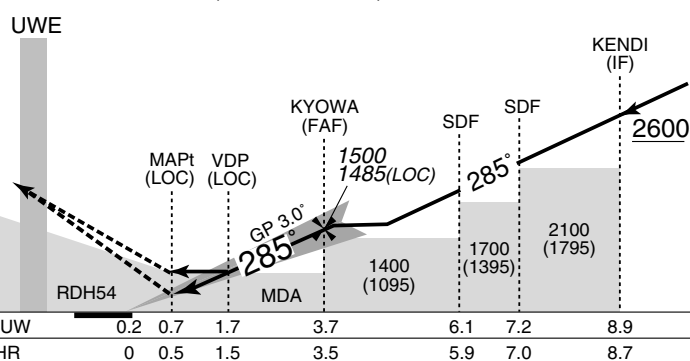


	NM to IUW	MAPt	2	3	FAF
ALT (3.0° APCH Path)	—	940	1258	1485	

## MISSED APPROACH

Climb to 800FT on HDG285°,  
via UWE R286 to UWE 4.8DME,  
turn right, direct to UWE  
VOR/DME and hold at 4000FT.  
Contact AKITA TOWER.

Timing not authorized for defining the MAPt.



MINIMA	THR elev. 314	AD elev. 305						
CAT	CAT I	LOC	CIRCLING					
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS		
A	514 (200)	550	810 (505)	1000	830 (525)	1600		
B				1200				
C				1600			900 (595)	2400
D							3200	

## INSTRUMENT APPROACH CHART

RJSK / AKITA

VOR RWY28



## INSTRUMENT APPROACH CHART

RJSK / AKITA

VOR Z RWY10



## RJSK / AKITA

VOR Y RWY10

**25/5/17**

## INSTRUMENT APPROACH CHART

RJSK / AKITA

RNAV(GNSS) Z RWY10



INSTRUMENT APPROACH CHART

RJSK / AKITA

➔ RNAV(RNP) Y RWY10

SAPPORO CONTROL 127.575 - 315.3 120.575 - 277.1	GNSS and RF required	AKITA TOWER 118.6 - 126.2	NO RADAR
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For uncompensated Baro-VNAV systems, procedure not authorized below -15°C / above 45°C



MISSED APPROACH

From RW10 on track 105°,  
at or above 700FT turn  
right, direct to CHOKA and  
hold at 8000FT.  
Contact AKITA TOWER.



NM to THR

Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev.289	AD elev.305
CAT	RNP 0.30	
	DA(H)	CMV
A	—	—
B	—	—
C	686 (397)	1400
D	686 (397)	1600

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 RWY10

RNAV(RNP) Y RWY10Coding 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	CHOKA	—	—	-8.6	—	—	+8000	—	—	—
002	TF	NOZOM	—	348 (339.2)	-8.6	13.2	—	+3200	—	—	1.0
003	TF	RINAH	—	348 (339.1)	-8.6	2.9	—	3200	—	—	1.0
004	TF	SK050	—	348 (339.1)	-8.6	1.3	—	2778	—	-3.00	0.3
005	RF Center: SKRF1 r=2.78	SK051	—	—	-8.6	5.7	R	965	—	-3.00	0.3
006	TF	RW10	Y	105 (096.6)	-8.6	2.0	—	339	—	-3.00/50	0.3
007	FA	—	—	105 (096.6)	-8.6	—	—	+700	—	—	1.0
008	DF	CHOKA	—	—	-8.6	—	R	8000	—	—	1.0

Waypoint Coordinates

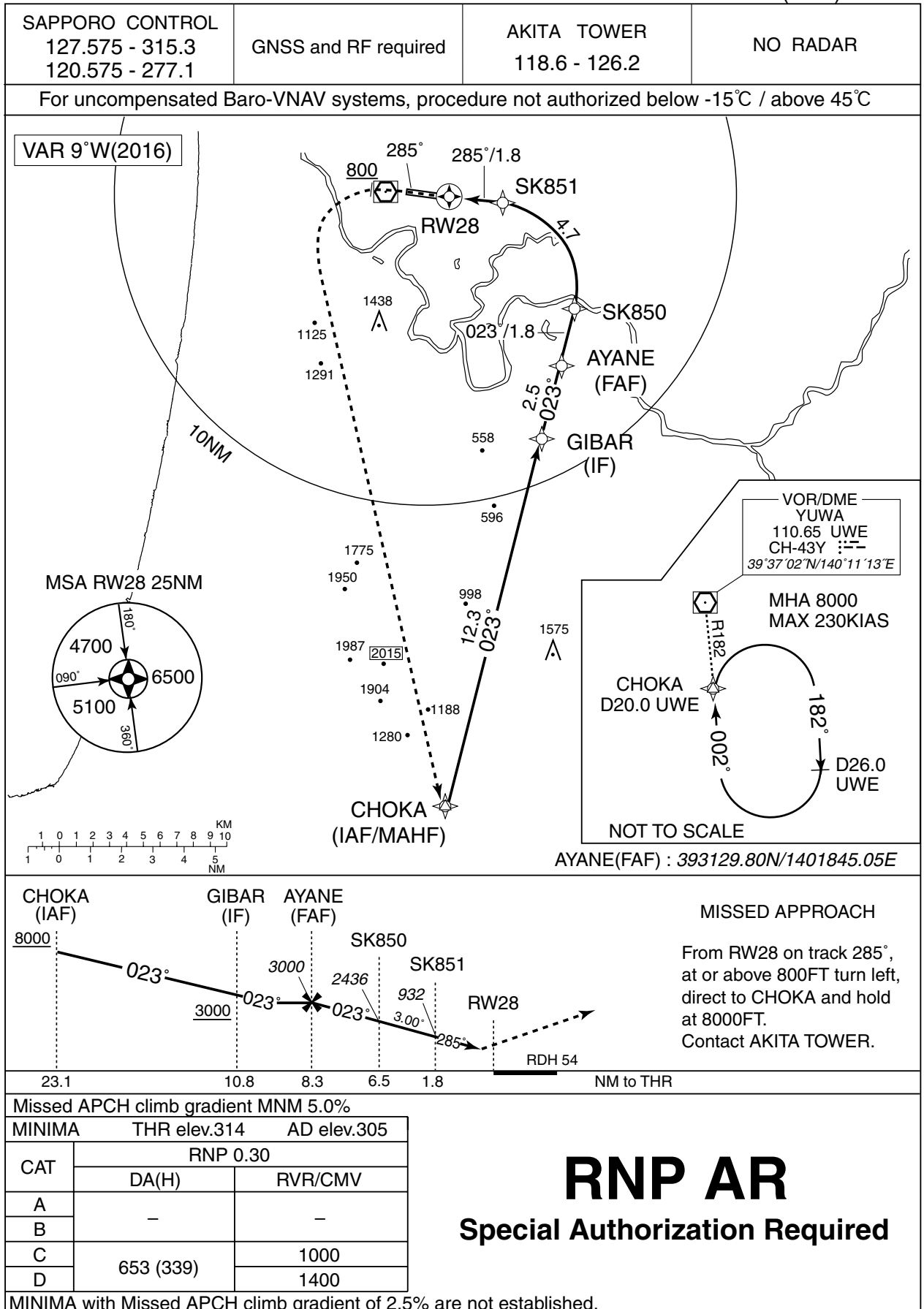
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
CHOKA	391709.51N/1401401.06E	SKRF1	393428.91N/1400918.43E
NOZOM	392931.83N/1400754.90E		
RINAH	393214.99N/1400634.10E		
SK050	393329.21N/1400557.30E		
SK051	393714.55N/1400943.07E		
RW10	393700.98N/1401215.14E		



INSTRUMENT APPROACH CHART

RJSK / AKITA

➔ RNAV(RNP) RWY28



## INSTRUMENT APPROACH CHART

RJSK / AKITA

➔ RNAV(RNP) RWY28

RNAV(RNP) RWY28Coding Table

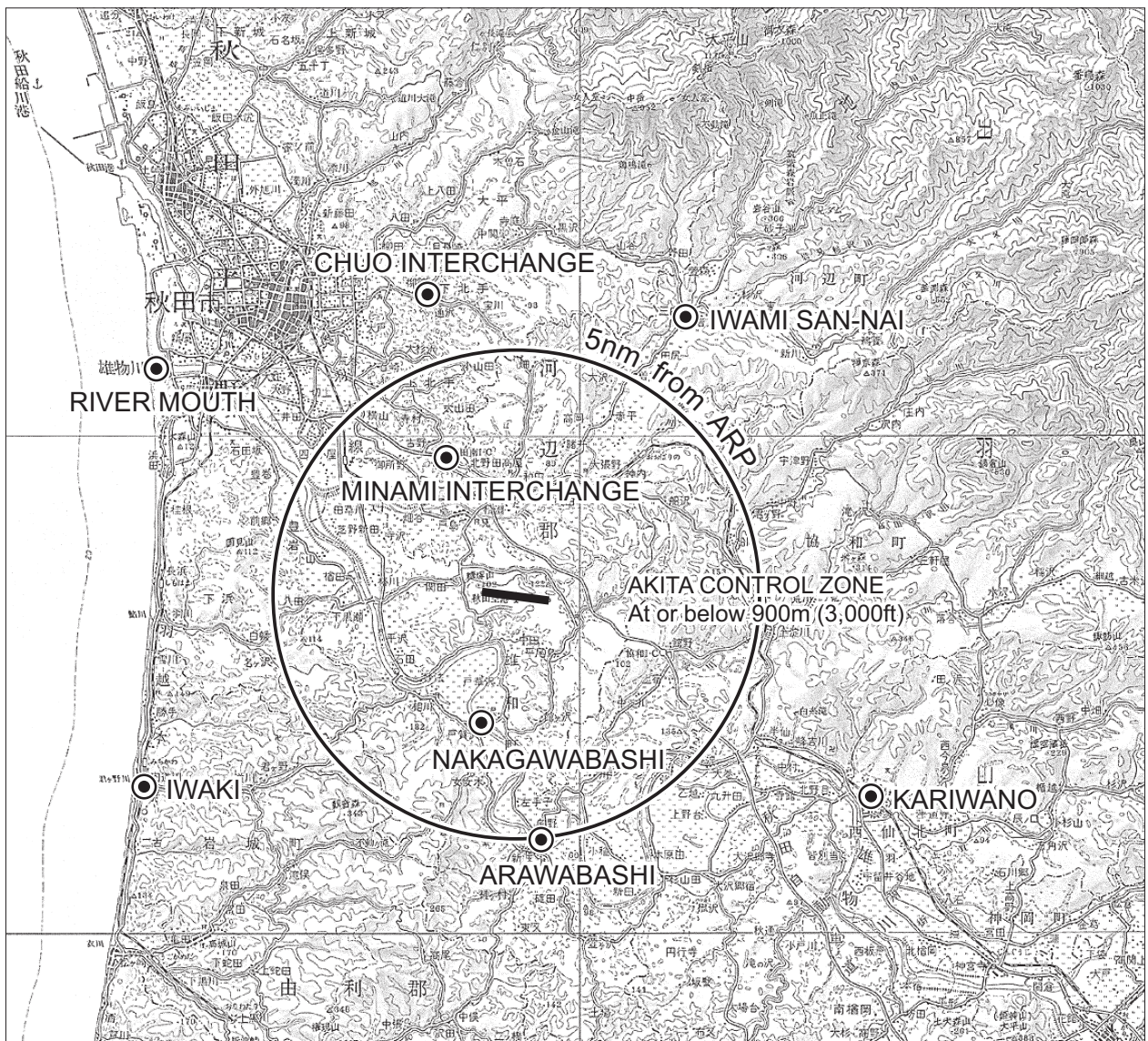
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course "M" (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/RDH (°/FT)	RNP Value
001	IF	CHOKA	—	—	-8.6	—	—	+8000	—	—	—
002	TF	GIBAR	—	023 (014.3)	-8.6	12.3	—	+3000	—	—	1.0
003	TF	AYANE	—	023 (014.3)	-8.6	2.5	—	3000	—	—	1.0
004	TF	SK850	—	023 (014.3)	-8.6	1.8	—	2436	—	-3.00	0.3
005	RF Center: SKRF2 r=2.77	SK851	—	—	-8.6	4.7	L	932	—	-3.00	0.3
006	TF	RW28	Y	285 (276.7)	-8.6	1.8	—	368	—	-3.00/54	0.3
007	FA	—	—	285 (276.7)	-8.6	—	—	+800	—	—	1.0
008	DF	CHOKA	—	—	-8.6	—	L	8000	—	—	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
CHOKA	391709.51N/1401401.06E	SKRF2	393354.17N/1401551.05E
GIBAR	392905.47N/1401757.27E		
AYANE	393129.80N/1401845.05E		
SK850	393312.87N/1401919.21E		
SK851	393639.39N/1401615.88E		
RW28	393651.66N/1401359.25E		

## RJSK / AKITA

## Visual REP



Call sign	BRG / DIST from ARP	Remarks
岩見三内 Iwami San-nai	038° / 6.5NM	岩見川と三内川の合流点 Merging point of Iwamigawa River and San-naigawa River
刈和野 Kariwano	127° / 8.2NM	JR刈和野駅 JR Kariwano Station
新波橋 Arawabashi	182° / 5.0NM	新波橋 (雄物川) Arawabashi
中川橋 Nakagawabashi	205° / 2.6NM	中川橋 (雄物川) Nakagawabashi
岩城 Iwaki	252° / 8.5NM	道の駅岩城 Michinoeki (Road Station) Iwaki
リバーマウス River Mouth	310° / 8.7NM	雄物川河口 Omonogawa River Mouth
南インターチェンジ Minami Interchange	340° / 3.1NM	秋田南インターチェンジ (秋田自動車道) Akita Minami Interchange
中央インターチェンジ Chuo Interchange	352° / 6.6NM	秋田中央インターチェンジ (秋田自動車道) Akita Chuo Interchange

RJSK / AKITA

Minimum Vectoring Altitude CHART

