

AD CHART

[illegible]

STANDARD DEPARTURE CHART -INSTRUMENT

RJSK / AKITA

SID

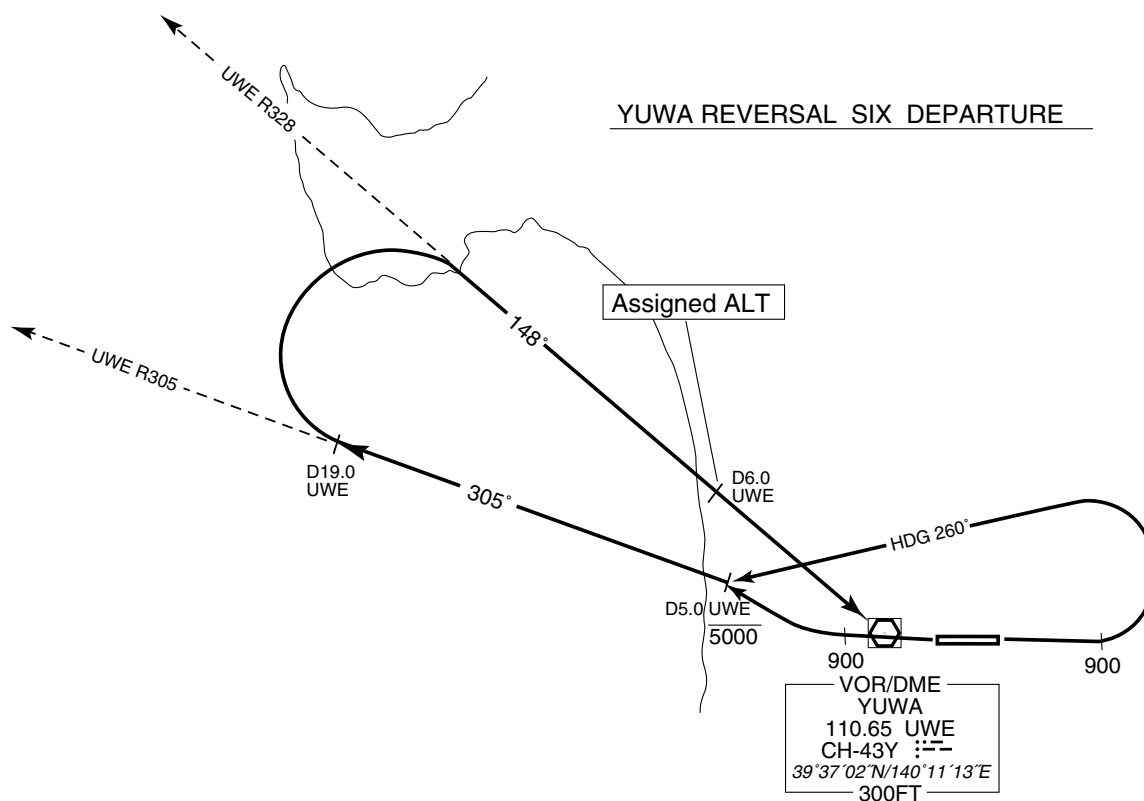
YUWA REVERSAL SIX DEPARTURE

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

STANDARD DEPARTURE CHART -INSTRUMENT

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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

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

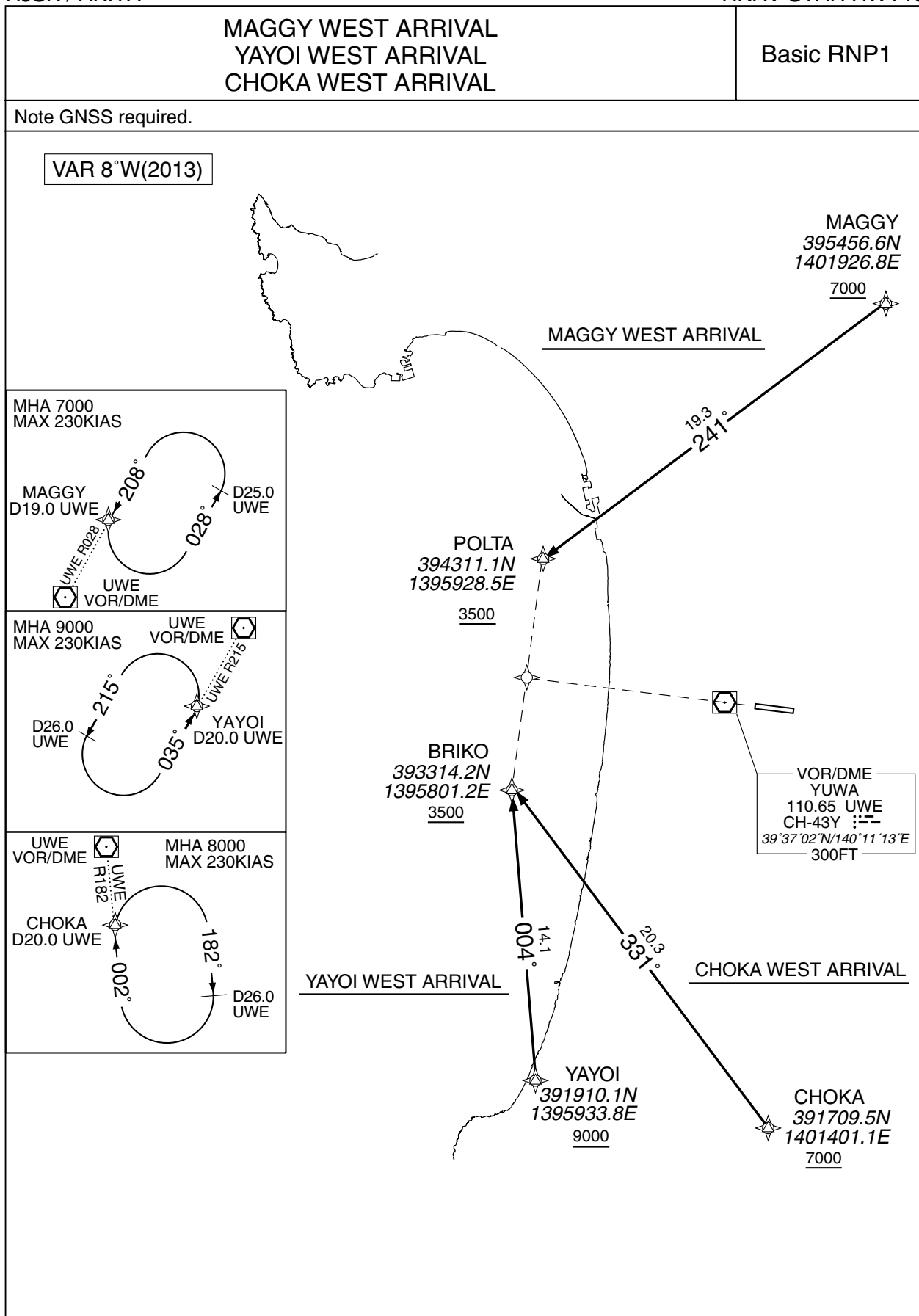
RWY28

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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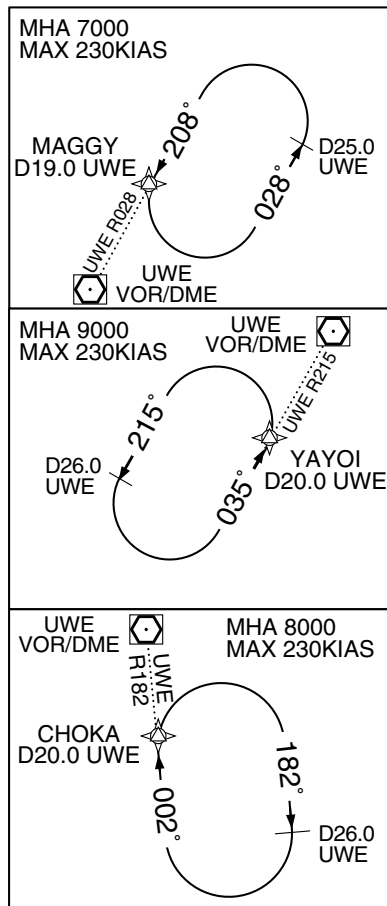
RNAV STAR RWY28

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

170°

GAKKO
394338.9N
1402411.8E

5000

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

YAYOI EAST ARRIVAL

YAYOI
391910.1N
1395933.8E

9000

22.5°

067°

15.9°

039°

CHOKA EAST ARRIVAL

CHOKA
391709.5N
1401401.1E

7000

BIJIN
393052.6N
1402425.6E

4200

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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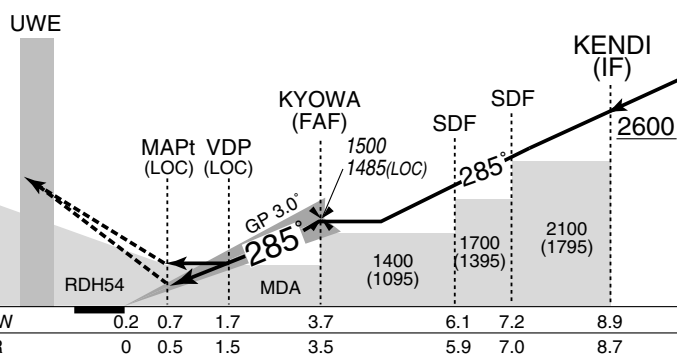
ILS Z or LOC Z RWY28



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.



MINIMA

THR elev. 314

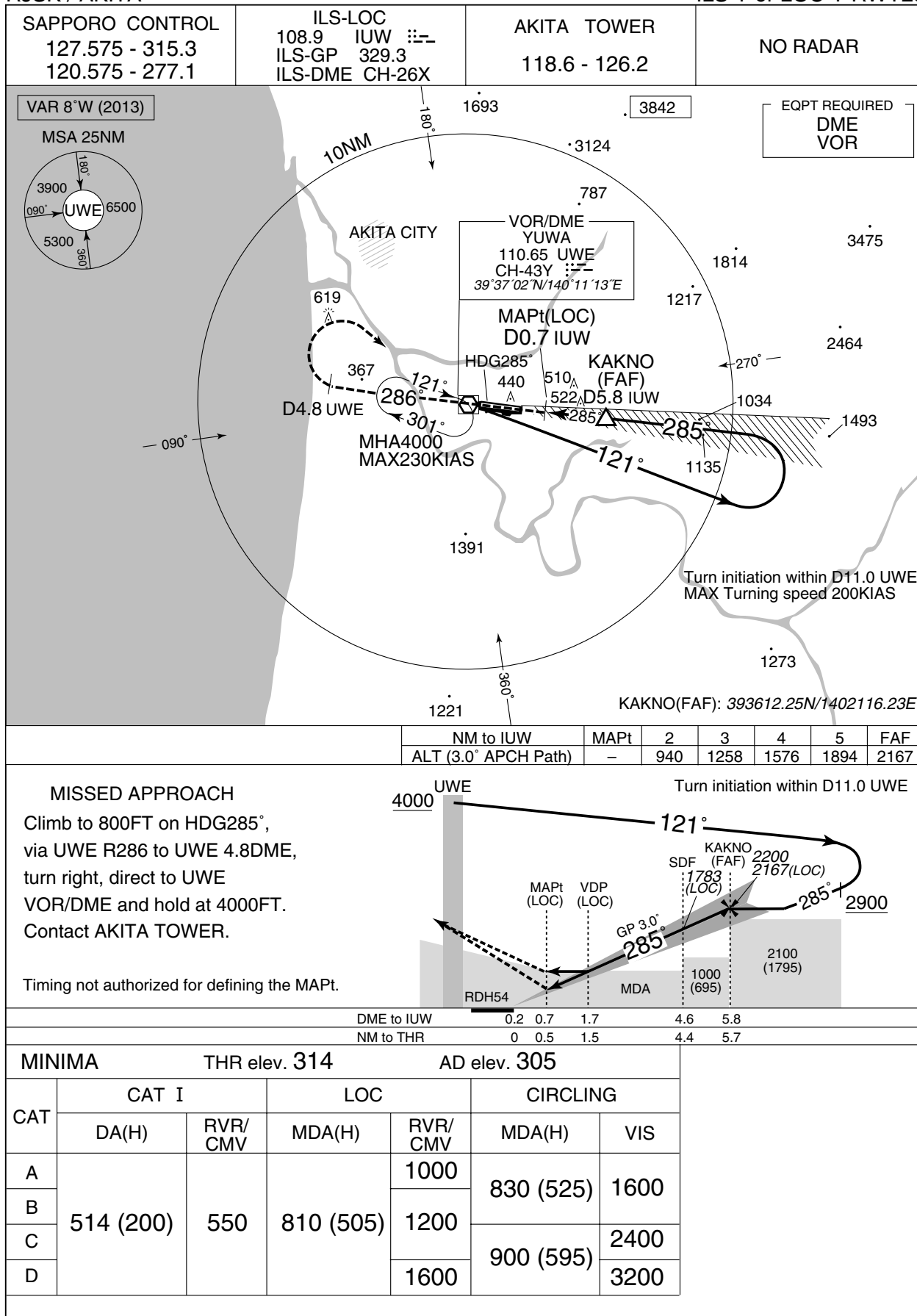
AD elev. 305

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						

INSTRUMENT APPROACH CHART

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ILS Y or LOC Y RWY28



INSTRUMENT APPROACH CHART

RJSK / AKITA

ILS X or LOC X RWY28

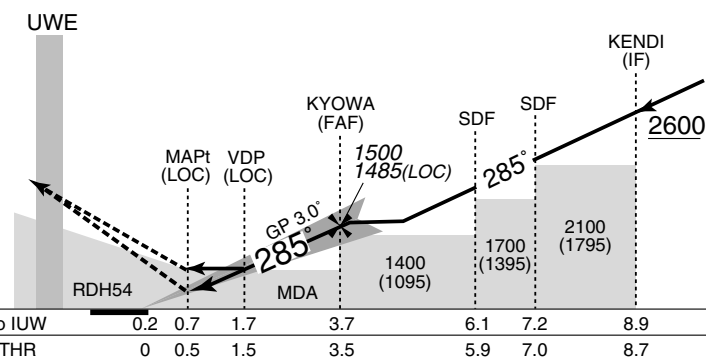


NM to IUW	MAPt	2	3	FAF
ALT (3.0° APCH Path)	—	940	1258	1485

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					900 (595)	2400
D				1600		

INSTRUMENT APPROACH CHART

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VOR RWY28



INSTRUMENT APPROACH CHART

RJSK / AKITA

VOR Z RWY10



INSTRUMENT APPROACH CHART

RJSK / AKITA

VOR Y RWY10



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RNAV(GNSS) Z RWY10

SAPPORO CONTROL

127.575 - 315.3

120.575 - 277.1

1.DME/DME RNP0.3 not authorized.
2.RNP0.3 required.
3.GNSS required.

AKITA TOWER

118.6 - 126.2

NO RADAR

Baro-VNAV not authorized below -15°C

VAR 8°W (2013)

D17.0 UWE

313°

133°

POLTA D10.9 UWE

MHA 3000

MAX 230KIAS

UWE VOR/DME

BRIKO D10.9 UWE

078°

258°

D17.0 UWE

MHA 3000

MAX 230KIAS

UWE VOR/DME

NM to Next Fix	FAF	5	4	3	2	MAPt
ALT (3.0° APCH Path)	2000	1930	1611	1293	975	—

KILLY (IF)

2000

105°

TAMPO (FAF)

2000

1452

105°

UWE

3000

105°

RW10 (MAPt)

3000

105°

SK055 (MATF)

3000

105°

10.5

5.2

3.5

1.3

0

NM to THR

1200 (911)

920 (631)

MDA

RDH50

MISSED APPROACH

Climb direct to SK055, turn right direct to BRIKO and hold at 3000FT. Contact AKITA TOWER.

(For using VOR/DME)
Climb via UWE R104 to 3.8DME, turn right HDG303° to intercept and proceed via UWE R258 to BRIKO and hold at 3000FT. Contact AKITA TOWER.

Missed APCH climb gradient MNM 3.1%

MINIMA THR elev. 289 AD elev. 305

CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	CMV	MDA(H)	CMV	MDA(H)	VIS
A	740(451)	1400	740(451)	1400	830(525)	1600
B		1500		1500		
C		1600		1600	900(595)	2400
D		1800		1800		

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

INSTRUMENT APPROACH CHART

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➔ 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.



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

RJSK / AKITA

➡ 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

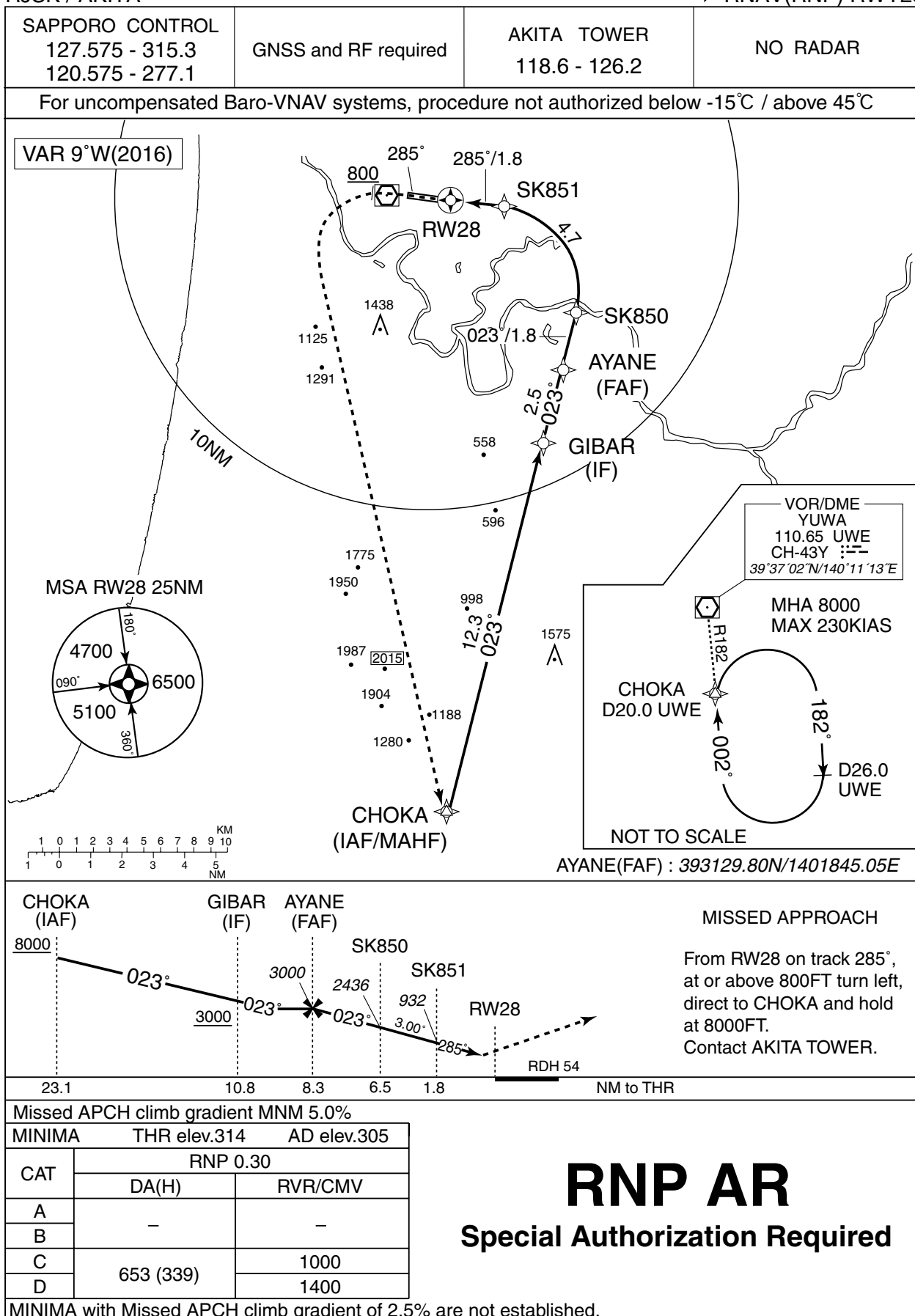
Waypoint Coordinates

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



RNP AR

Special Authorization Required

INSTRUMENT APPROACH CHART

RJSK / AKITA

➔ RNAV(RNP) RWY28

RNAV(RNP) RWY28Coding Table

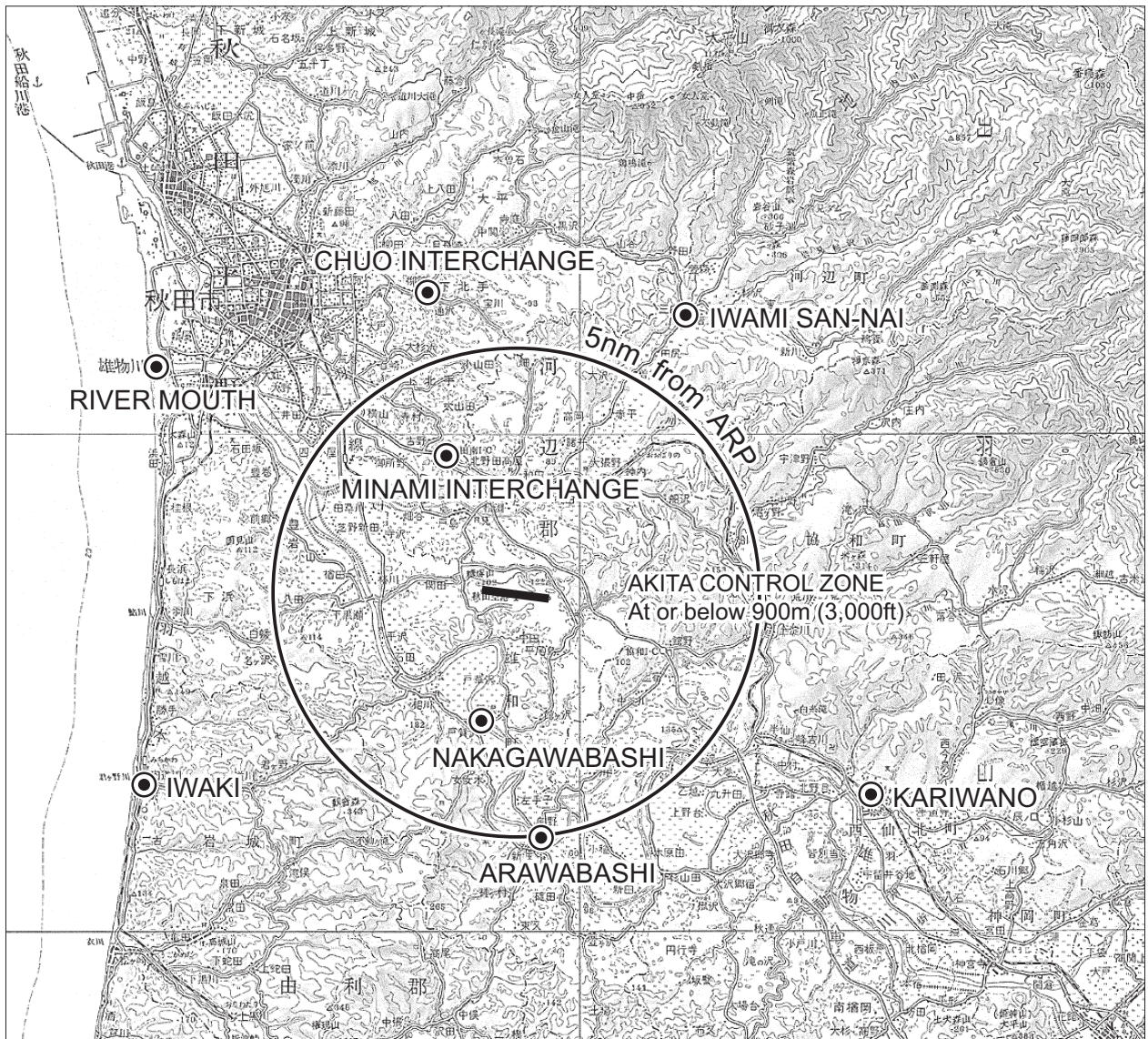
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/RDH (°/FT)	RNP Value
001	IF	CHOKA	—	—	-8.6	—	—	+8000	—	—	—
002	TF	GIBAR	—	023 (014.3)	-8.6	12.3	—	+3000	—	—	1.0
003	TF	AYANE	—	023 (014.3)	-8.6	2.5	—	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

VAR 8°W (2013)



CENTER : 393702N/1401113E (UWE VOR/DME)