

RJSK / AKITA

AD CHART



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STANDARD DEPARTURE CHART -INSTRUMENT

RJSK / AKITA

SID

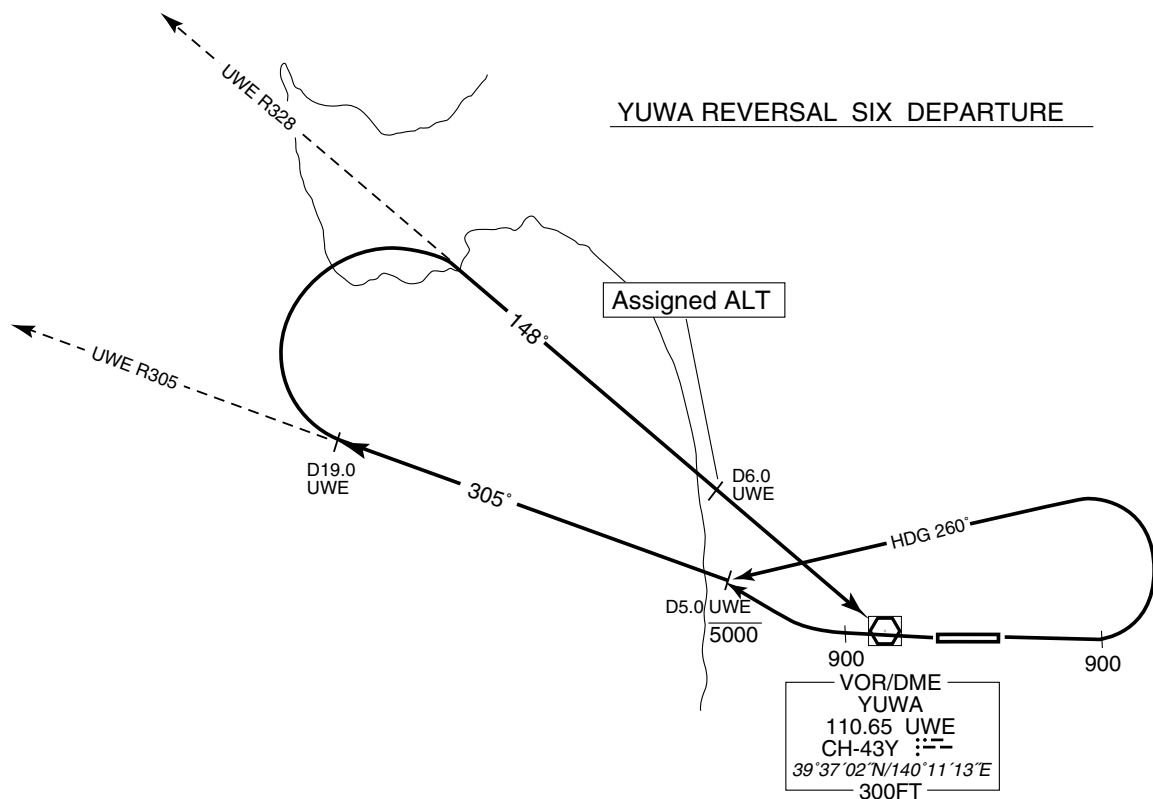
YUWA REVERSAL SIX DEPARTURE

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.



STANDARD DEPARTURE CHART -INSTRUMENT

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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.

STANDARD DEPARTURE CHART -INSTRUMENT

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STANDARD DEPARTURE CHART -INSTRUMENT

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RNAV SID

MUTSU TWO DEPARTURE

Basic RNP1

Note GNSS required.

VAR 9°W (2021)

VOR/DME
AOMORI
114.1 MRE
CH-88X
40°44'20"N/140°42'19"E
800FT

AOMORI(MRE)
404419.7N
1404219.2E

60.9

032°

SK002

394822.1N
1401056.5E

MUTSU TWO DEPARTURE

900

286°

900

106°

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

MUTSU TWO DEPARTURE

RWY10 : Climb on HDG 106° at or above 900FT, turn left direct to SK002, to MRE.

RWY28 : Climb on HDG 286° at or above 900FT, turn right direct to SK002, to MRE.

NOTE RWY10 : 5.0% climb gradient required up to 1700FT.

OBST ALT 3019FT located at 10.0NM 018° FM end of RWY10.

CHANGE : VAR. PROC renamed. PROC course.

STANDARD DEPARTURE CHART -INSTRUMENT

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RNAV SID

MUTSU TWO 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	—	—	106 (096.6)	-8.9	—	—	+900	—	—	Basic RNP1
002	DF	SK002	—	—	-8.9	—	L	—	—	—	Basic RNP1
003	TF	MRE	—	032 (023.0)	-8.9	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	—	—	286 (276.6)	-8.9	—	—	+900	—	—	Basic RNP1
002	DF	SK002	—	—	-8.9	—	R	—	—	—	Basic RNP1
003	TF	MRE	—	032 (023.0)	-8.9	60.9	—	—	—	—	Basic RNP1

CHANGE : VAR. PROC renamed. PROC course.

STANDARD DEPARTURE CHART -INSTRUMENT

RJSK / AKITA

RNAV SID

USYU TWO DEPARTURE

Basic RNP1

Note GNSS required.

VAR 9°W (2021)

900
286°
106°
900

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

USYU TWO DEPARTURE

SK801
391957.0N
1401250.5E

MUSHA
390511.0N
1402052.2E

YAMAGATA
(YTE)
382319.0N
1402128.6E

VOR/DME
YAMAGATA
113.0 YTE
CH-77X
38°23'19"N/140°21'29"E
400FT

USYU TWO DEPARTURE

RWY10 : Climb on HDG 106° at or above 900FT, turn right direct to MUSHA, to YTE.

RWY28 : Climb on HDG 286° at or above 900FT, turn left direct to SK801, to MUSHA, to YTE.

CHANGE : VAR. PROC renamed. PROC course.

STANDARD DEPARTURE CHART -INSTRUMENT

RJSK / AKITA

RNAV SID

USYU TWO 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	—	—	106 (096.6)	-8.9	—	—	+900	—	—	Basic RNP1
002	DF	MUSHA	—	—	-8.9	—	R	—	—	—	Basic RNP1
003	TF	YTE	—	188 (179.3)	-8.9	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	—	—	286 (276.6)	-8.9	—	—	+900	—	—	Basic RNP1
002	DF	SK801	—	—	-8.9	—	L	—	—	—	Basic RNP1
003	TF	MUSHA	—	166 (157.1)	-8.9	16.0	—	—	—	—	Basic RNP1
004	TF	YTE	—	188 (179.3)	-8.9	41.9	—	—	—	—	Basic RNP1

CHANGE : VAR. PROC renamed. PROC course.

STANDARD DEPARTURE CHART -INSTRUMENT

RJSK / AKITA

RNAV SID

NIIGATA TWO DEPARTURE

Basic RNP1

Note GNSS required.

VAR 9°W (2021)

NIIGATA TWO DEPARTURE

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

900 286° 900 106° 4.5 196°
SK011
393608.1N
1402202.4E
SK012
393139.6N
1402121.7E

TARAA
391141.2N
1394642.1E

VORTAC
NIIGATA
115.5 GTC
CH-102X
37°57'30"N/139°06'56"E
0FT
NIIGATA (GTC)
375729.9N
1390653.6E

NIIGATA TWO DEPARTURE

RWY10 : Climb on HDG 106° at or above 900FT, direct to SK011, to SK012, to TARAA, to GTC.

RWY28 : Climb on HDG 286° at or above 900FT, turn left direct to TARAA, to GTC.

CHANGE : VAR. PROC renamed. PROC course.

STANDARD DEPARTURE CHART -INSTRUMENT

RJSK / AKITA

RNAV SID

NIIGATA TWO 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	—	—	106 (096.6)	-8.9	—	—	+900	—	—	Basic RNP1
002	DF	SK011	—	—	-8.9	—	—	—	—	—	Basic RNP1
003	TF	SK012	—	196 (186.7)	-8.9	4.5	—	—	—	—	Basic RNP1
004	TF	TARAA	—	242 (233.5)	-8.9	33.4	—	—	—	—	Basic RNP1
005	TF	GTC	—	212 (203.0)	-8.9	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	—	—	286 (276.6)	-8.9	—	—	+900	—	—	Basic RNP1
002	DF	TARAA	—	—	-8.9	—	—	—	—	—	Basic RNP1
003	TF	GTC	—	212 (203.0)	-8.9	80.5	—	—	—	—	Basic RNP1

CHANGE : VAR. PROC renamed. PROC course.

STANDARD ARRIVAL CHART-INSTRUMENT

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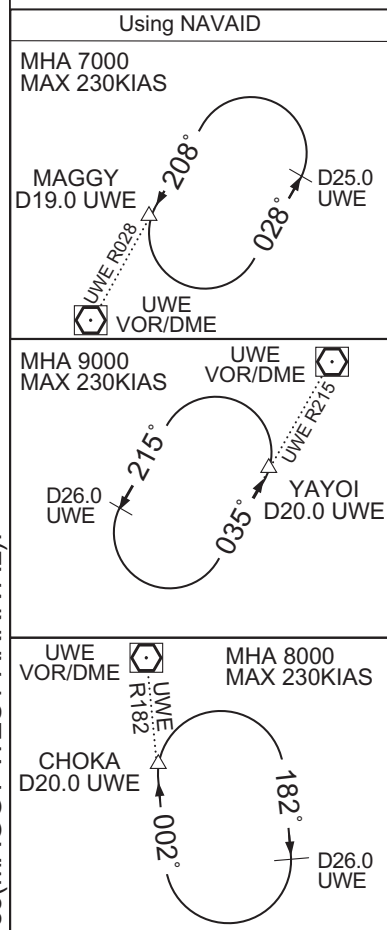
RNAV STAR RWY10

MAGGY WEST ARRIVAL
YAYOI WEST ARRIVAL
CHOKA WEST ARRIVAL

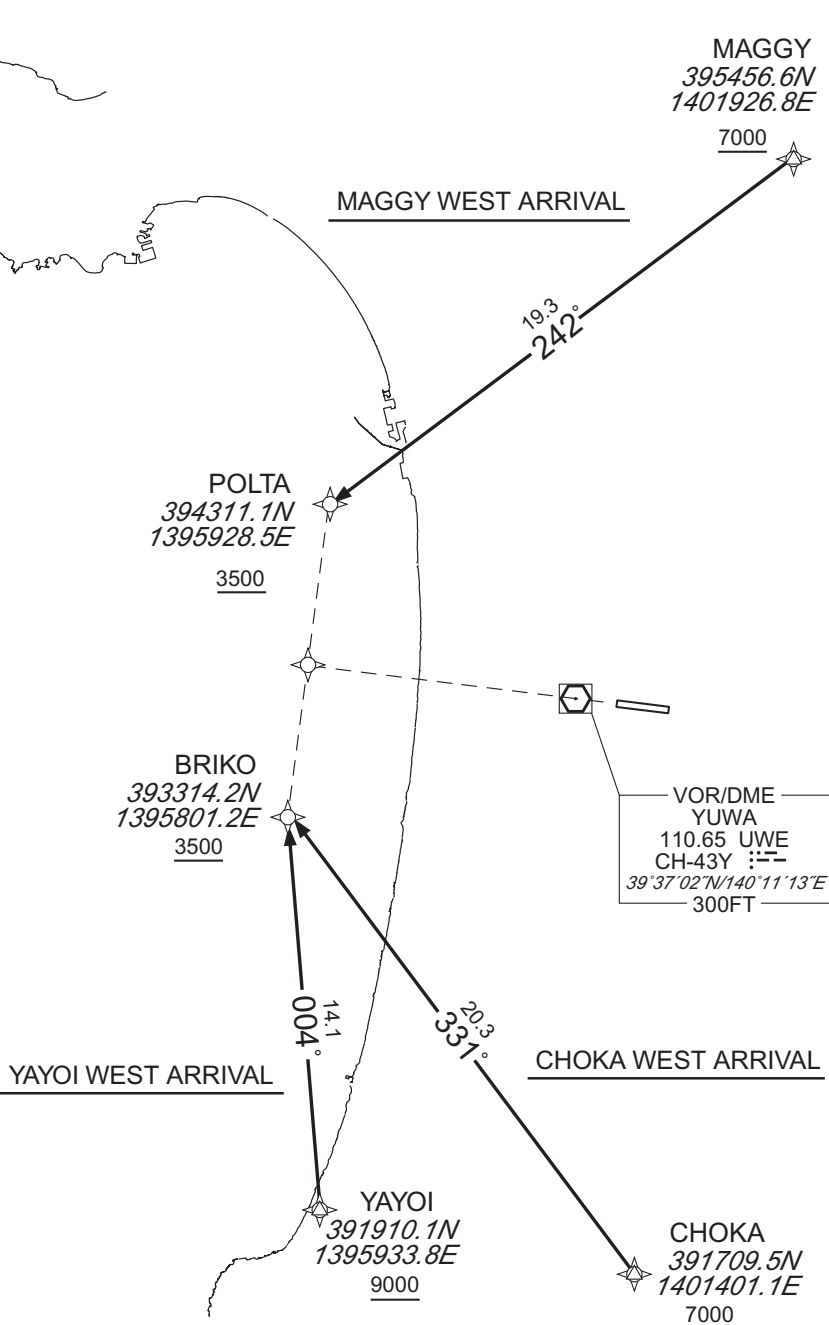
Basic RNP1

Note GNSS required.

VAR 9°W(2021)



CHANGE : VAR. PROC course(MAGGY WEST ARRIVAL).



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	—	—	-8.9	—	—	+7000	—	—	Basic RNP1
002	TF	POLTA	—	242 (232.6)	-8.9	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	—	—	-8.9	—	—	+9000	—	—	Basic RNP1
002	TF	BRIKO	—	004 (355.2)	-8.9	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	—	—	-8.9	—	—	+7000	—	—	Basic RNP1
002	TF	BRIKO	—	331 (322.5)	-8.9	20.3	—	+3500	—	—	Basic RNP1

CHANGE : VAR. PROC course(MAGGY WEST ARRIVAL).

STANDARD ARRIVAL CHART-INSTRUMENT

RJSK / AKITA

RNAV STAR RWY28

MAGGY EAST ARRIVAL
YAYOI EAST ARRIVAL
CHOKA EAST ARRIVAL

Basic RNP1

Note GNSS required.

VAR 9°W(2021)

Using NAVAID

MHA 7000
MAX 230KIAS



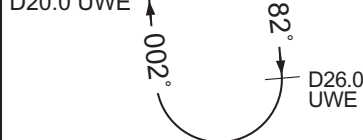
MHA 9000
MAX 230KIAS



UWE VOR/DME

UWE R182

CHOKA
D20.0 UWE



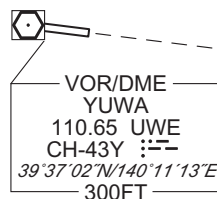
MHA 8000
MAX 230KIAS

MAGGY EAST ARRIVAL

MAGGY
395456.6N
1401926.8E
7000

171°

GAKKO
394338.9N
1402411.8E
5000



YAYOI EAST ARRIVAL

YAYOI
391910.1N
1395933.8E
9000

22.5°

067°

CHOKA EAST ARRIVAL

CHOKA
391709.5N
1401401.1E
7000

15.9°

039°

BIJIN
393052.6N
1402425.6E
4200

CHANGE : VAR. PROC course(MAGGY EAST ARRIVAL).

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	—	—	-8.9	—	—	+7000	—	—	Basic RNP1
002	TF	GAKKO	—	171 (162.1)	-8.9	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	—	—	-8.9	—	—	+9000	—	—	Basic RNP1
002	TF	BIJIN	—	067 (058.5)	-8.9	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	—	—	-8.9	—	—	+7000	—	—	Basic RNP1
002	TF	BIJIN	—	039 (030.3)	-8.9	15.9	—	+4200	—	—	Basic RNP1

CHANGE : VAR. PROC course(MAGGY EAST ARRIVAL).

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.



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INSTRUMENT APPROACH CHART

RJSK / AKITA

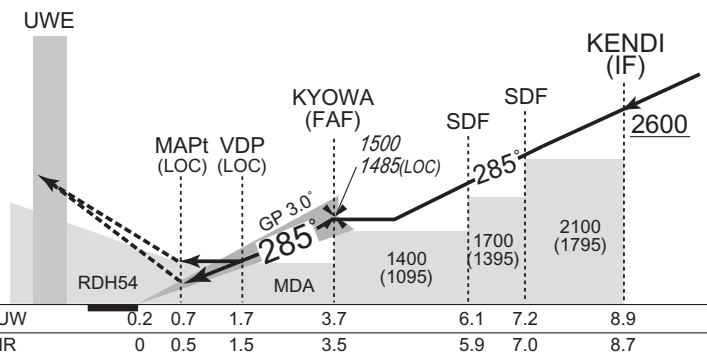
ILS Z or LOC Z RWY28



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.



CHANGE : ALT(3.0° APCH Path).

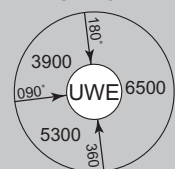
MINIMA		THR elev. 314		AD elev. 305		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	514 (200)	550	810 (505)	1000	830 (525)	1600
B				1200		
C					1600	900 (595)
D						

RJSK / AKITA

ILS Y or LOC Y RWY28

VAR 8°W (2013)

MSA 25NM



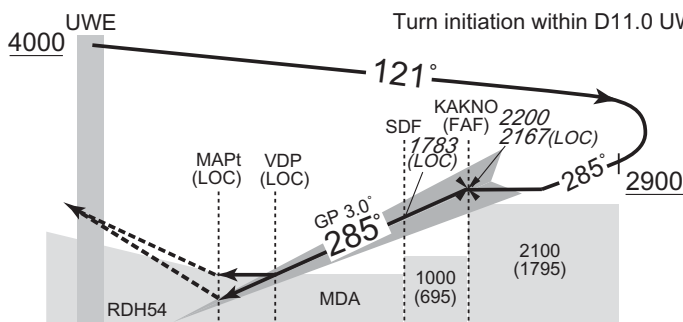
EQPT REQUIRED
DME
VOR

KAKNO(FAF): 393612.25N/1402116.23E

NM to IUW	MAPt	2	3	4	5	FAF
ALT (3.0° APCH Path)	–	936	1254	1573	1891	2167

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	4.6	5.9
NM to THR	0	0.5	1.5	4.4	5.7

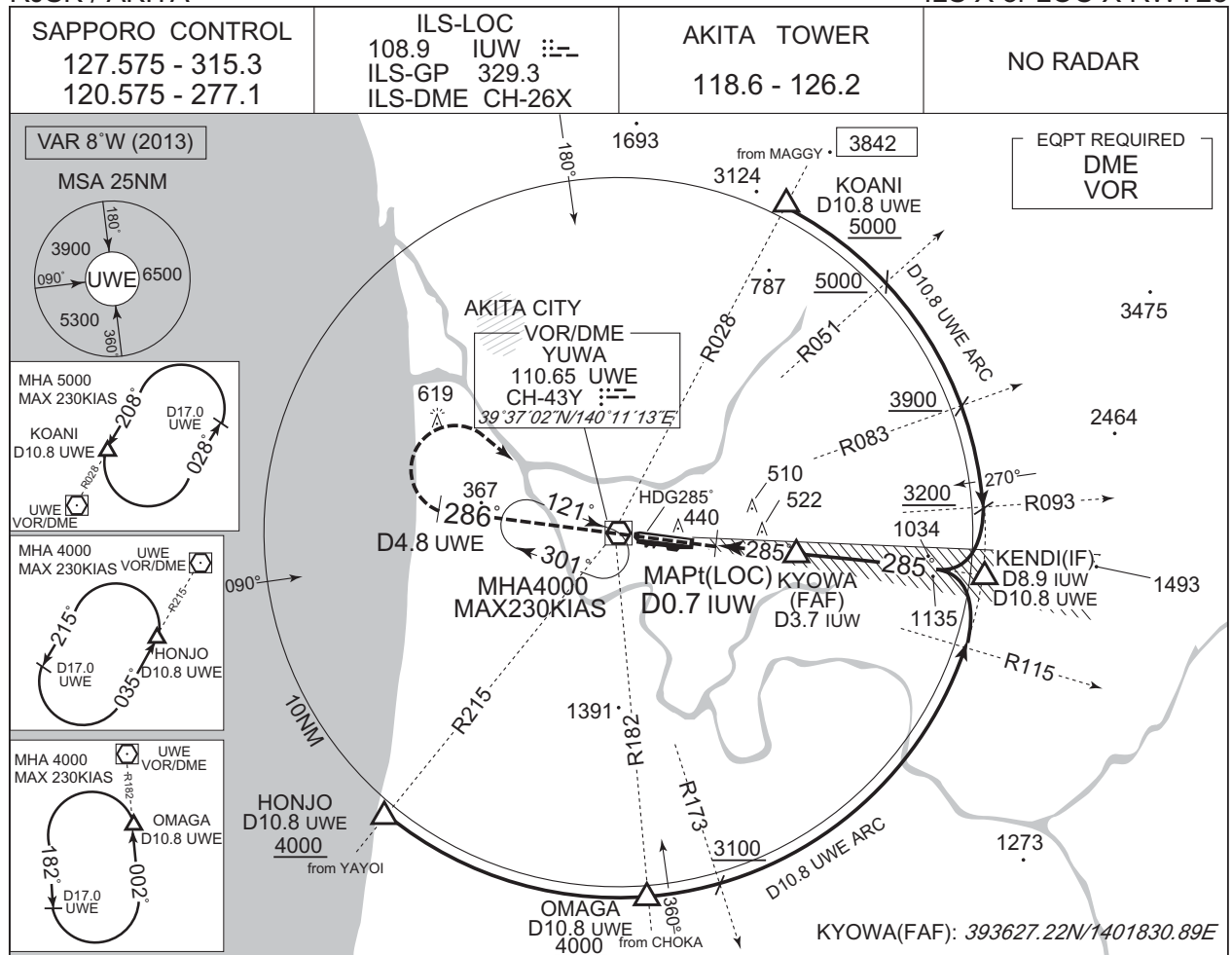
MINIMA		THR elev. 314		AD elev. 305		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	514 (200)	550	810 (505)	1000	830 (525)	1600
B				1200		
C				900 (595)	2400	
D						1600

CHANGE : DIST FM KAKNO TO IUW. ALT(3.0° APCH Path).

INSTRUMENT APPROACH CHART

RJSK / AKITA

ILS X or LOC X RWY28

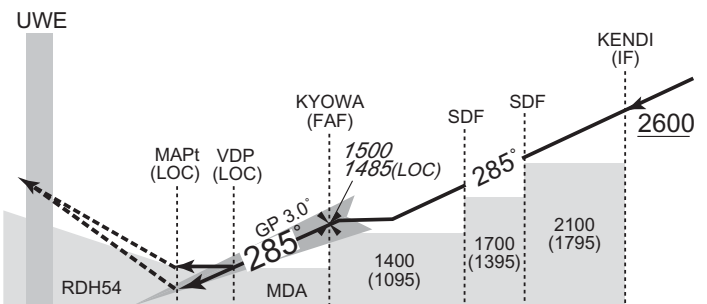


NM to IUW	MAPt	2	3	FAF
ALT (3.0° APCH Path)	—	936	1254	1485

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.



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					900 (595)	2400
D						

CHANGE : ALT(3.0° APCH Path).

INSTRUMENT APPROACH CHART

RJSK / AKITA

VOR RWY28



NM to UWE	MAPt	4	5	6	7	8	9	FAF
ALT (3.0° APCH Path)	—	953	1272	1590	1908	2226	2545	2864

MISSED APPROACH

Proceed to UWE VOR/DME,
climb via UWE R284 to
UWE 6.3DME, turn right,
direct to UWE VOR/DME
and hold at 4000FT.
Contact AKITA TOWER.

Timing not authorized for defining the MAPt.



DME to UWE	2.1	3.6	6.1	10.0
NM to THR	0	1.5	4.0	7.8

MINIMA THR elev. 314 AD elev. 305

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

INSTRUMENT APPROACH CHART

RJSK / AKITA

VOR Z RWY10



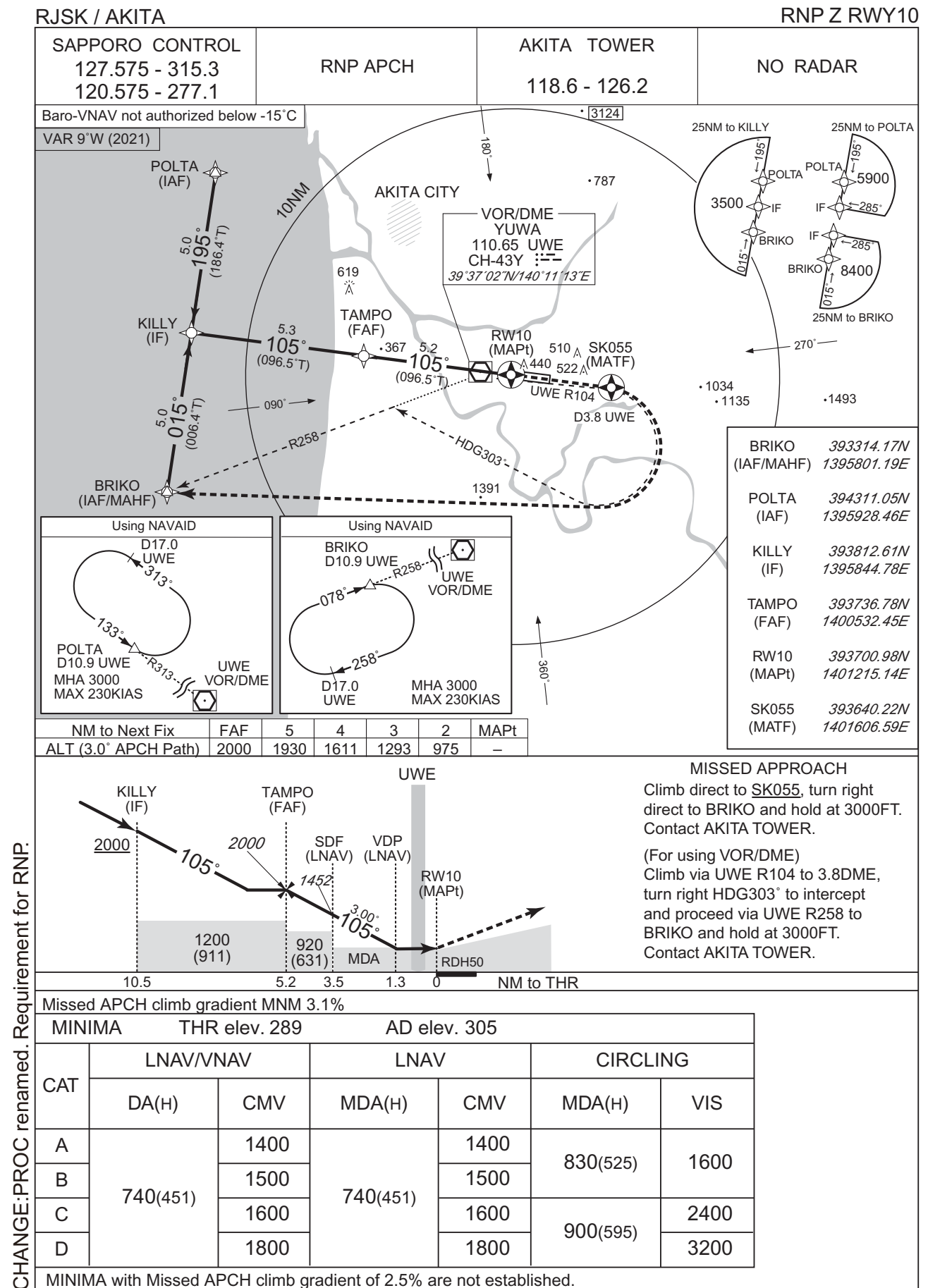
INSTRUMENT APPROACH CHART

RJSK / AKITA

VOR Y RWY10



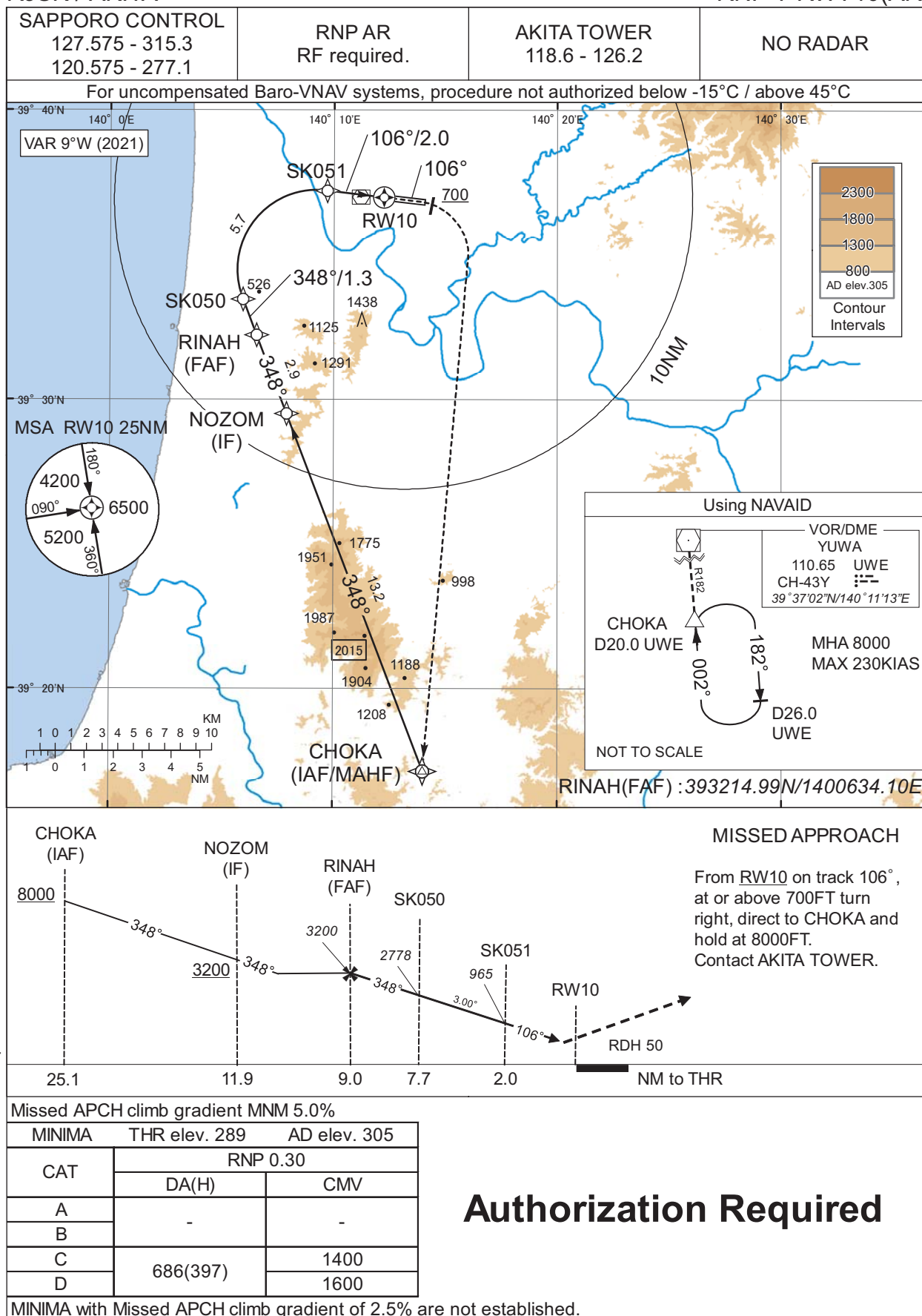
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJSK / AKITA

RNP Y RWY10(AR)



CHANGE : PROC renamed. Requirement for RNP.

Authorization Required

INSTRUMENT APPROACH CHART

RJSK / AKITA

RNP Y RWY10(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	CHOKA	-	-	-8.9	-	-	+8000	-	-	-
002	TF	NOZOM	-	348 (339.2)	-8.9	13.2	-	+3200	-	-	1.0
003	TF	RINAH	-	348 (339.1)	-8.9	2.9	-	3200	-	-	1.0
004	TF	SK050	-	348 (339.1)	-8.9	1.3	-	2778	-	-3.00	0.3
005	RF Center: SKRF1 r=2.78NM	SK051	-	-	-8.9	5.7	R	965	-	-3.00	0.3
006	TF	RW10	Y	106 (096.6)	-8.9	2.0	-	339	-	-3.00/50	0.3
007	FA	-	-	106 (096.6)	-8.9	-	-	+700	-	-	1.0
008	DF	CHOKA	-	-	-8.9	-	R	8000	-	-	1.0

Waypoint Coordinates

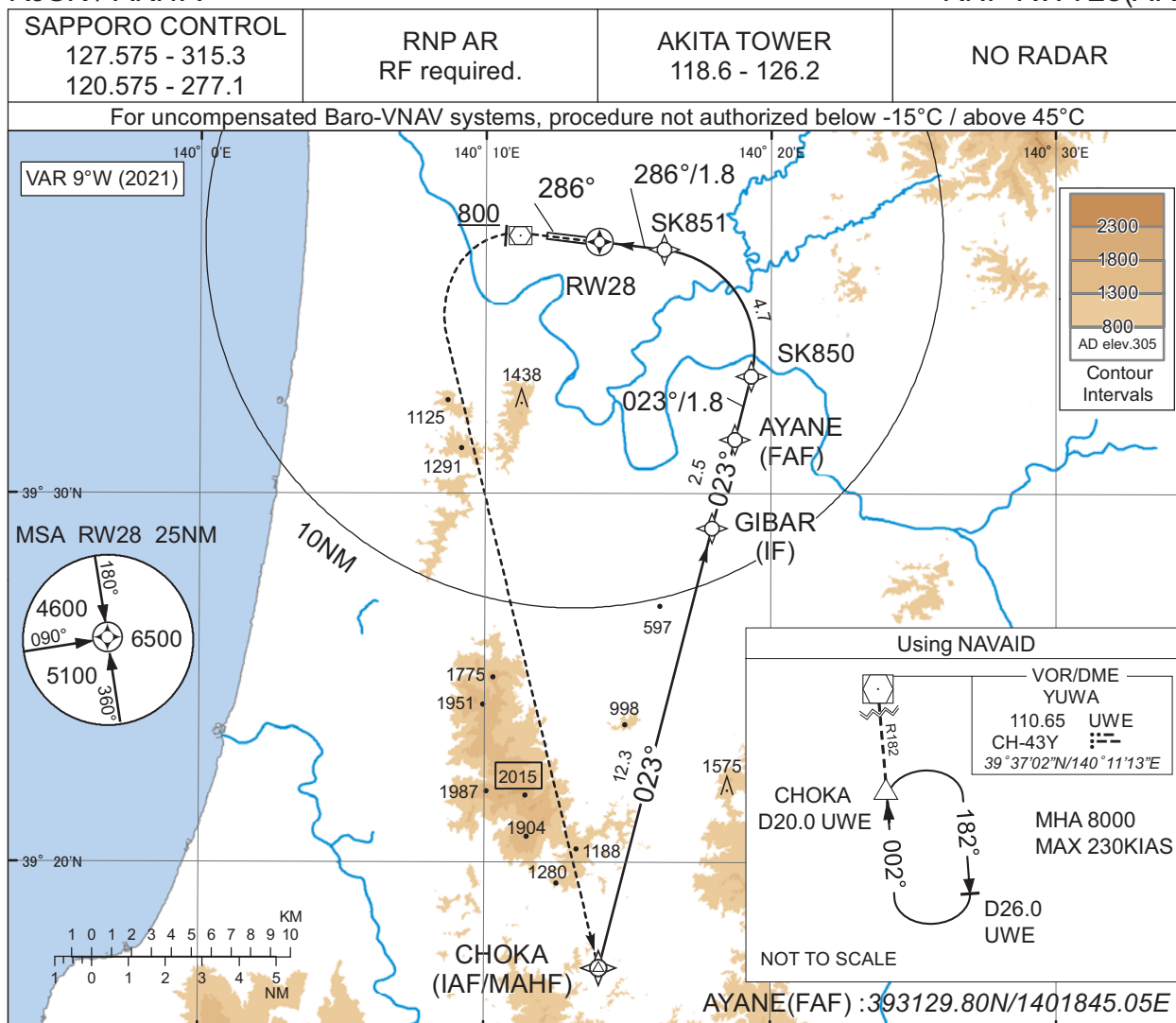
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
CHOKA	391709.51N / 1401401.06E	SKRF1	393428.91N / 1400918.43E
NOZOM	392931.83N / 1400754.90E		
RINAH	393214.99N / 1400634.10E		
SK050	393329.21N / 1400557.30E		
SK051	393714.55N / 1400943.07E		
RW10	393700.98N / 1401215.14E		

CHANGE : PROC renamed.

INSTRUMENT APPROACH CHART

RJSK / AKITA

RNP RWY28(AR)



MISSED APPROACH

From RWY28 on track 286°, at or above 800FT turn left, direct to CHOKA and hold at 8000FT.
Contact AKITA TOWER.



Missed APCH climb gradient MNM 5.0%

MINIMA		
	THR elev. 314	AD elev. 305
CAT	RNP 0.30	
	DA(H)	RVR/CMV
A	-	-
B	-	-
C	653(339)	1000
D		1400

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

Authorization Required

INSTRUMENT APPROACH CHART

RJSK / AKITA

RNP RWY28(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	CHOKA	-	-	-8.9	-	-	+8000	-	-	-
002	TF	GIBAR	-	023 (014.3)	-8.9	12.3	-	+3000	-	-	1.0
003	TF	AYANE	-	023 (014.3)	-8.9	2.5	-	3000	-	-	1.0
004	TF	SK850	-	023 (014.3)	-8.9	1.8	-	2436	-	-3.00	0.3
005	RF Center: SKRF2 r=2.77NM	SK851	-	-	-8.9	4.7	L	932	-	-3.00	0.3
006	TF	RW28	Y	286 (276.7)	-8.9	1.8	-	368	-	-3.00/54	0.3
007	FA	-	-	286 (276.7)	-8.9	-	-	+800	-	-	1.0
008	DF	CHOKA	-	-	-8.9	-	L	8000	-	-	1.0

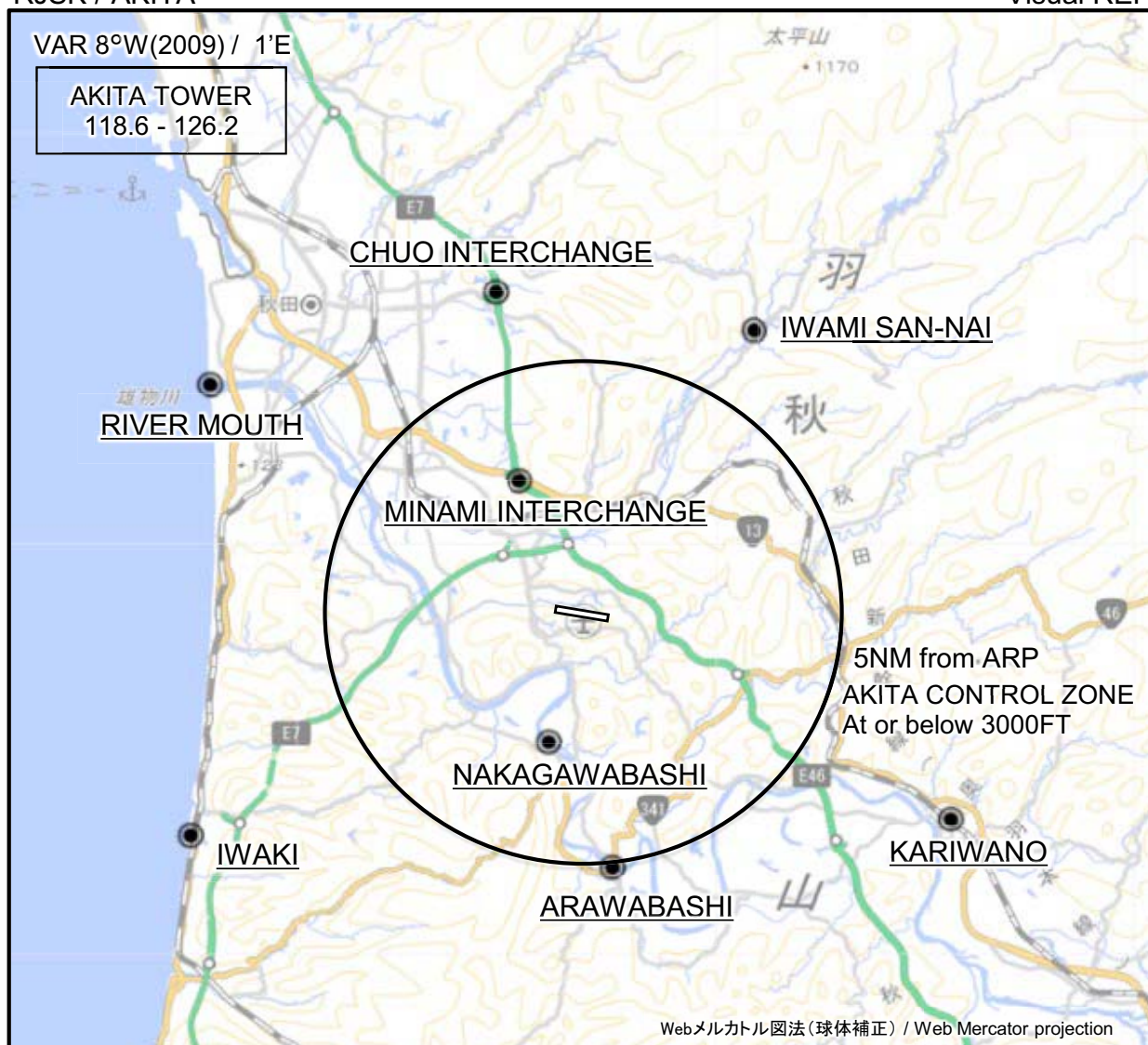
Waypoint Coordinates

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		

CHANGE : PROC renamed.

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Visual REP



※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

CHANGE : Map updated. BRG/DIST from ARP.

Call sign	BRG / DIST from ARP	Remarks
中央インターチェンジ Chuo Interchange	345°T / 6.6NM	秋田中央インターチェンジ(秋田自動車道) Akita Chuo Interchange
岩見三内 Iwami San-nai	030°T / 6.5NM	岩見川と三内川の合流点 Merging point of Iwamigawa River and San-naigawa River
リバーマウス River Mouth	302°T / 8.6NM	雄物川河口 Omonogawa River Mouth
南インターチェンジ Minami Interchange	334°T / 3.0NM	秋田南インターチェンジ(秋田自動車道) Akita Minami Interchange
中川橋 Nakagawabashi	196°T / 2.6NM	中川橋(雄物川) Nakagawabashi
刈和野 Kariwano	120°T / 8.2NM	JR刈和野駅 JR Kariwano Station
岩城 Iwaki	240°T / 8.8NM	道の駅岩城 Michinoeki (Road Station) Iwaki
新波橋 Arawabashi	174°T / 5.0NM	新波橋(雄物川) Arawabashi

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Minimum Vectoring Altitude CHART

