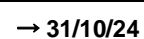


## AD CHART



STANDARD DEPARTURE CHART-INSTRUMENT

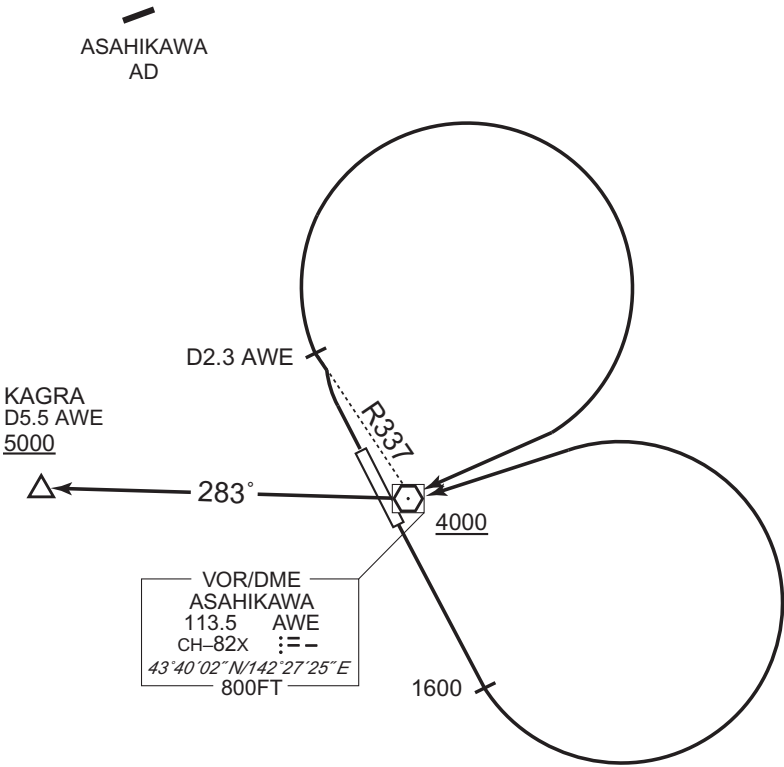
RJEC / ASAHIKAWA

SID

KAGRA FOUR DEPARTURE

RWY16 : Climb RWY HDG to 1600FT, turn left,...  
RWY34 : Climb via AWE R337 to 2.3DME, turn right,...  
...direct to AWE VOR/DME, via AWE R283 to KAGRA.  
Cross AWE VOR/DME at or above 4000FT, cross KAGRA at or above 5000FT.

Note RWY16 : 5.3% climb gradient required up to 1600FT.  
OBST ALT 1247FT located at 2.0NM 146° FM end of RWY16.  
RWY34 : 5.0% climb gradient required up to 1000FT.  
OBST ALT 696FT located at 1.4NM 021° FM end of RWY34.



CHANGE : Description of PROC name.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJEC / ASAHIKAWA

SID

ASAHIKAWA REVERSAL FIVE DEPARTURE

RWY16 : Climb RWY HDG to 1600FT, turn left HDG320° to intercept and proceed ...

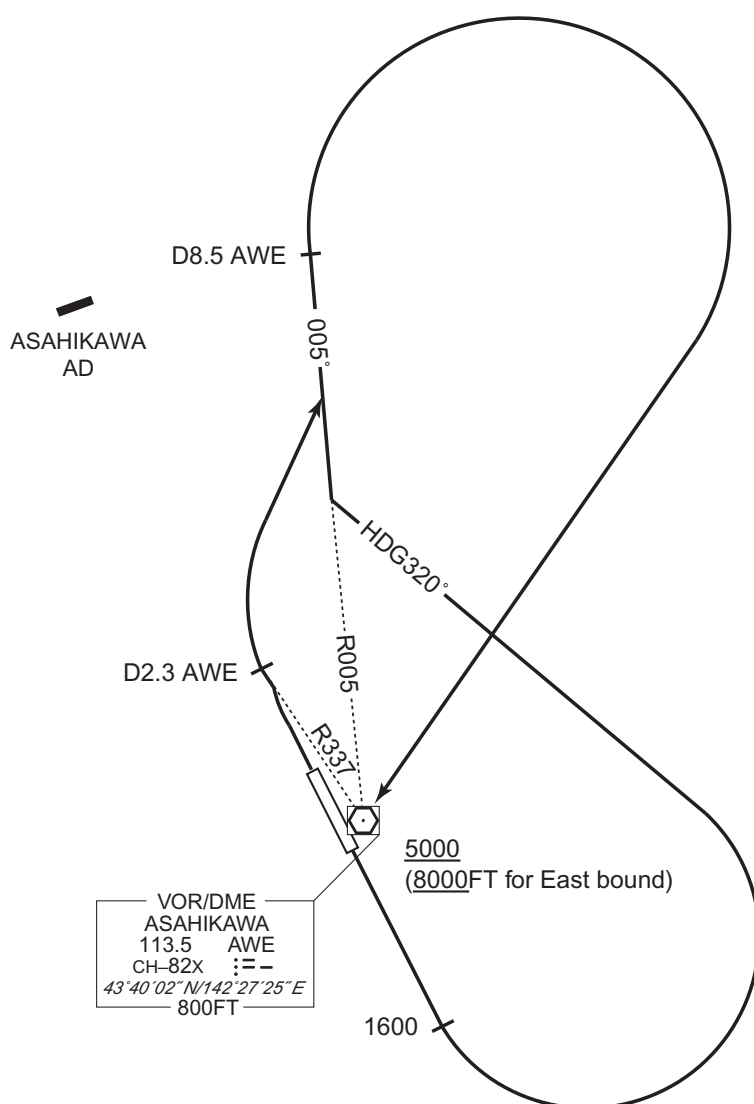
RWY34 : Climb via AWE R337 to 2.3DME, turn right,...

... via AWE R005 to 8.5DME, turn right, direct to AWE VOR/DME.

Cross AWE VOR/DME at or above 5000FT (8000FT for East bound).

Note RWY16 : 5.3% climb gradient required up to 1600FT.

OBST ALT 1247FT located at 2.0NM 146° FM end of RWY16.



CHANGE : Description of PROC name.

STANDARD ARRIVAL CHART-INSTRUMENT

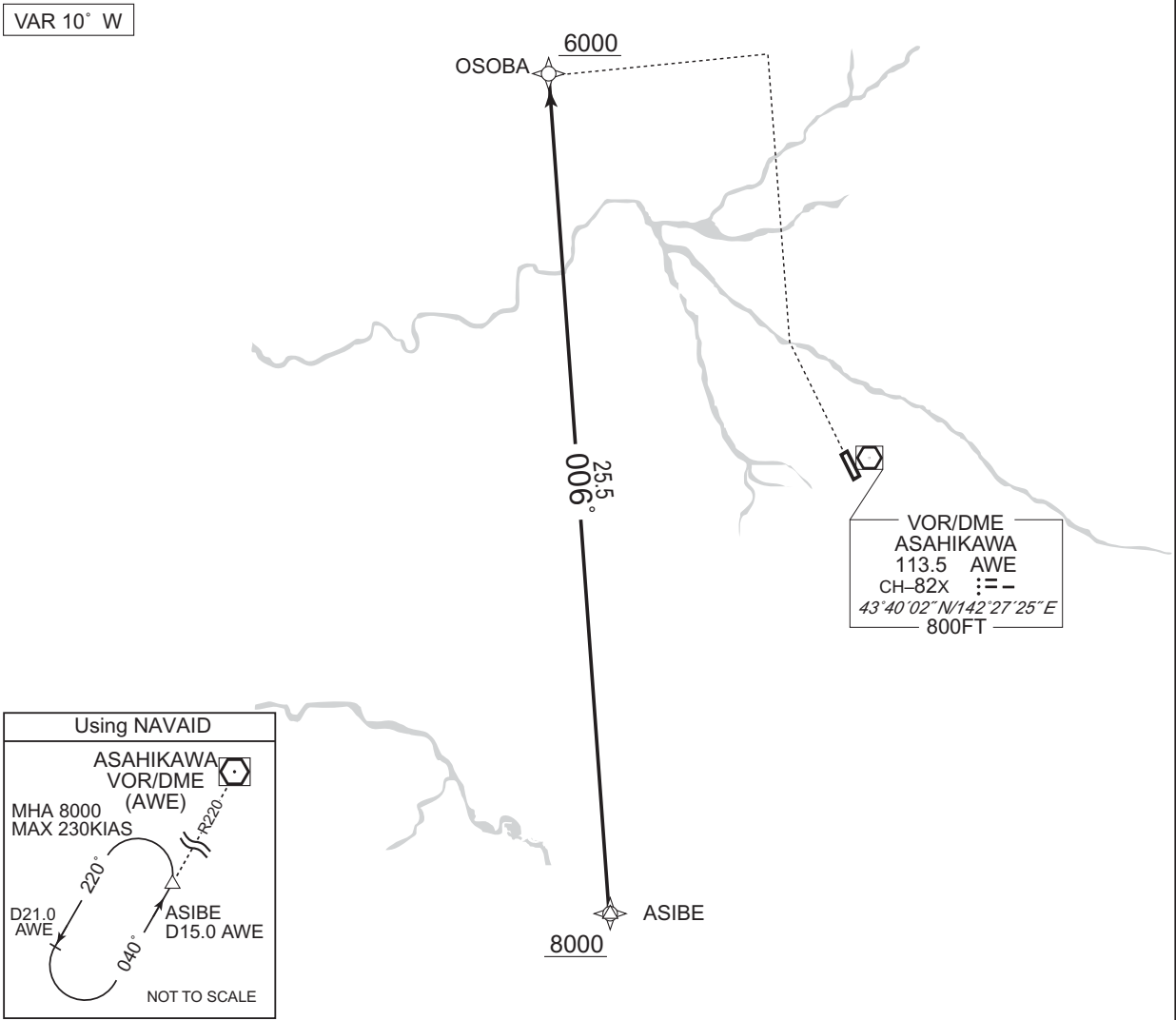
RJEC / ASAHIKAWA

RNAV STAR RWY16

OSOBA ARRIVAL

RNP1

Note GNSS required.



From ASIBE at or above 8000FT, to OSOBA at or above 6000FT.

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	ASIBE	—	—	-9.9	—	—	+8000	—	—	RNP1
002	TF	OSOBA	—	006 (356.1)	-9.9	25.5	—	+6000	—	—	RNP1

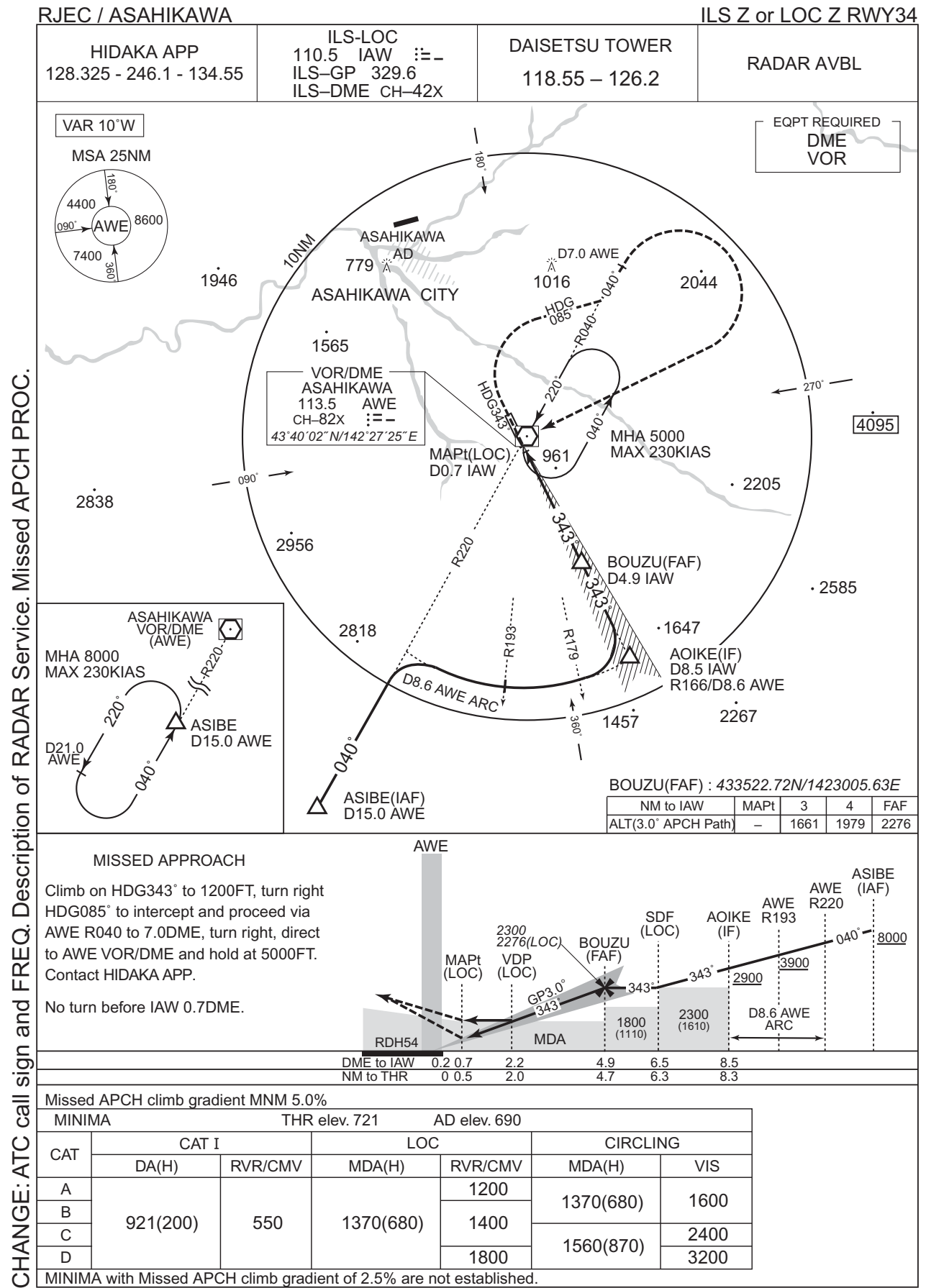
Waypoint Coordinates

Waypoint Identifier	Coordinates
ASIBE	432704.0N / 1421700.9E
OSOBA	435228.9N / 1421435.5E

CHANGE : VAR. Waypoint Coordinates added.

**INTENTIONALLY LEFT BLANK**

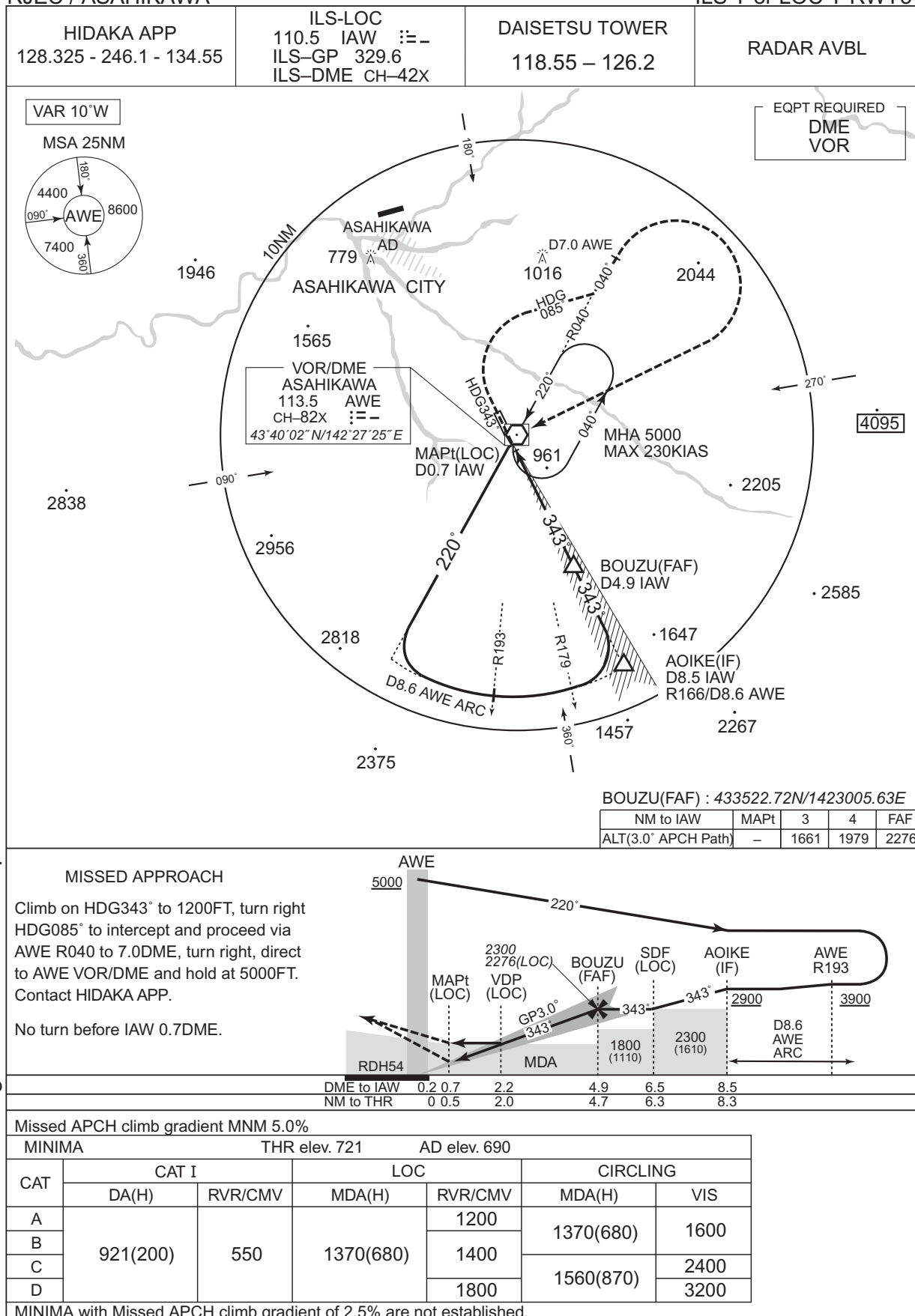
INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART

RJEC / ASAHIKAWA

ILS Y or LOC Y RWY34

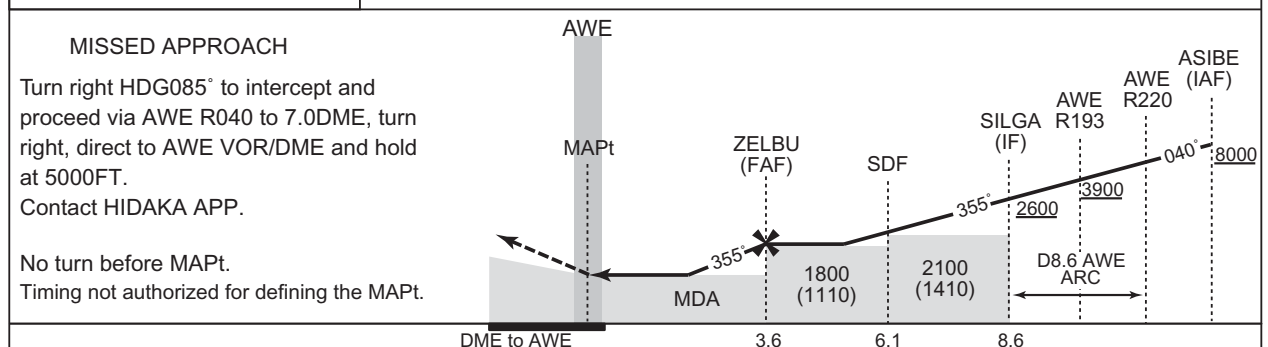
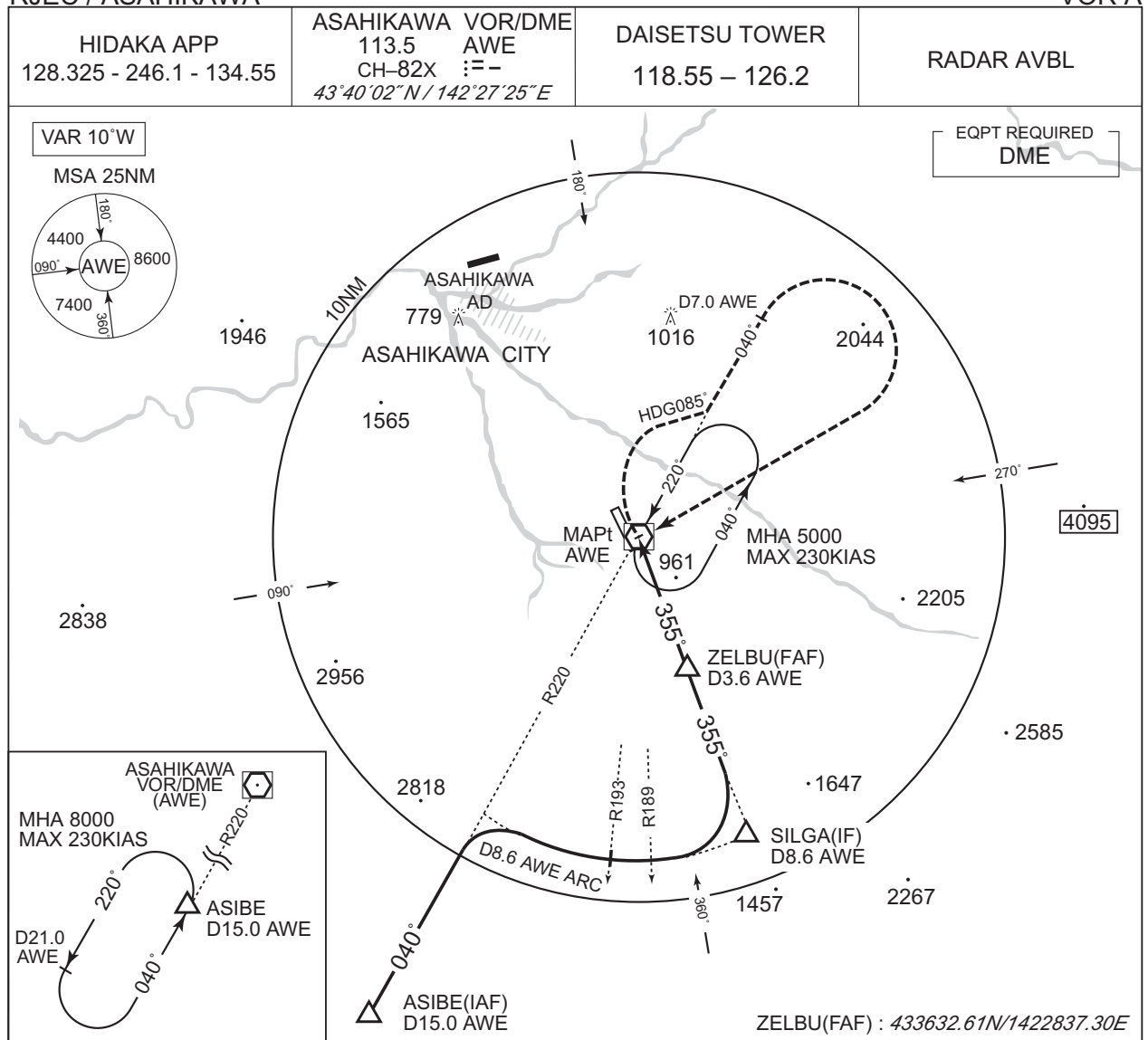


CHANGE: ATC call sign and FREQ. Description of RADAR Service. Missed APCH PROC.

INSTRUMENT APPROACH CHART

RJEC / ASAHIKAWA

VOR A



Missed APCH climb gradient MNM 5.0%

MINIMA		AD elev. 690
CAT	CIRCLING	
	MDA(H)	VIS
A	1460(770)	1600
B		1600
C	1560(870)	2400
D		3200

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

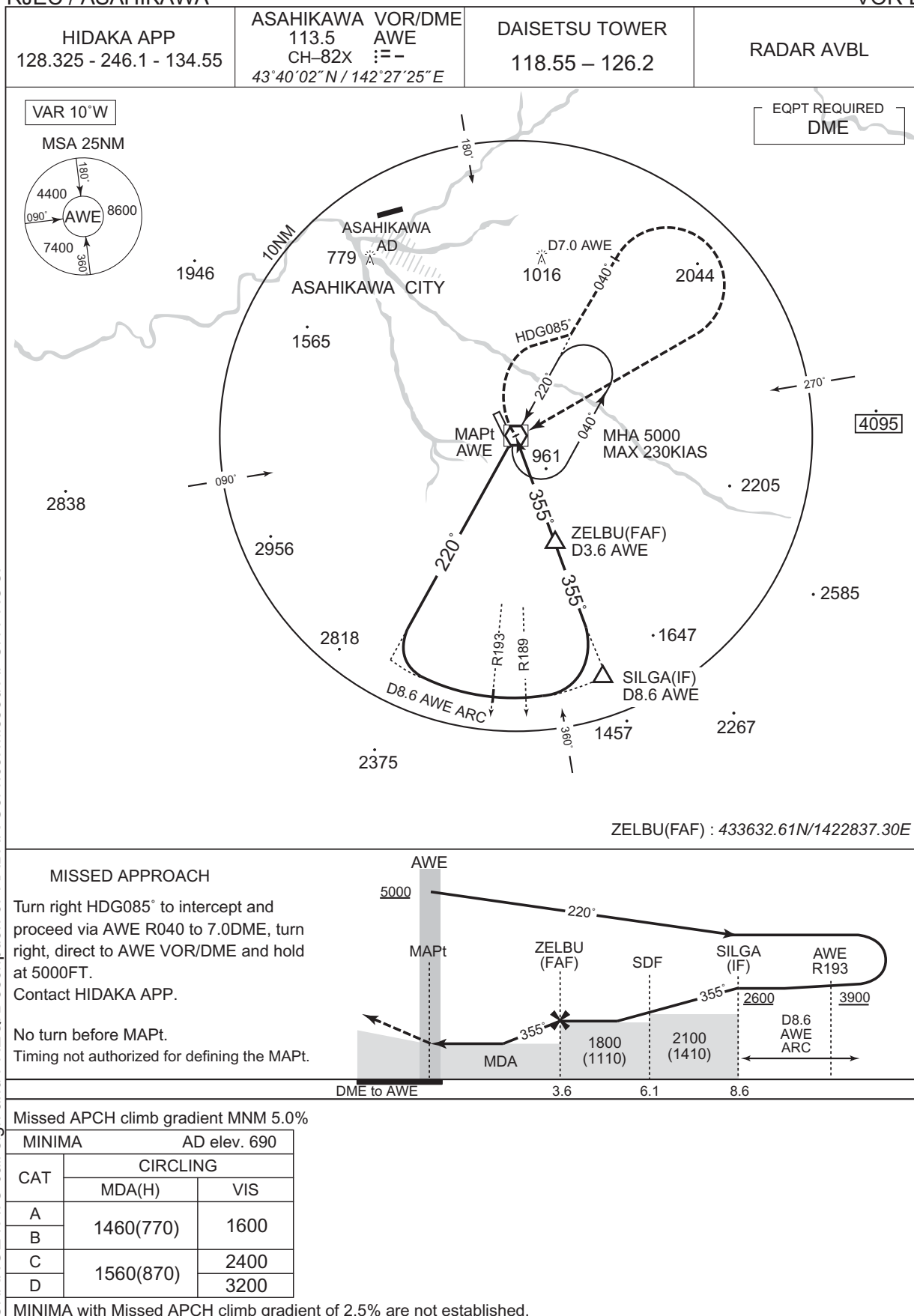
CHANGE : VAR.



## INSTRUMENT APPROACH CHART

RJEC / ASAHIKAWA

VOR B

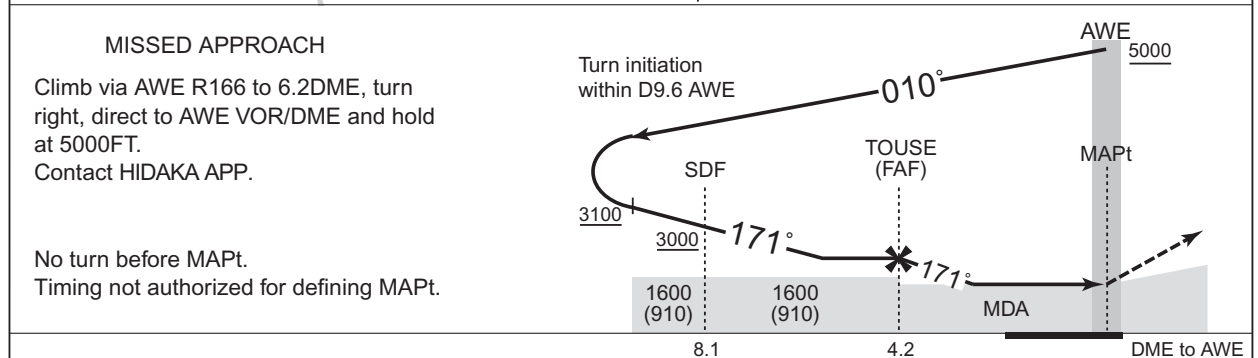
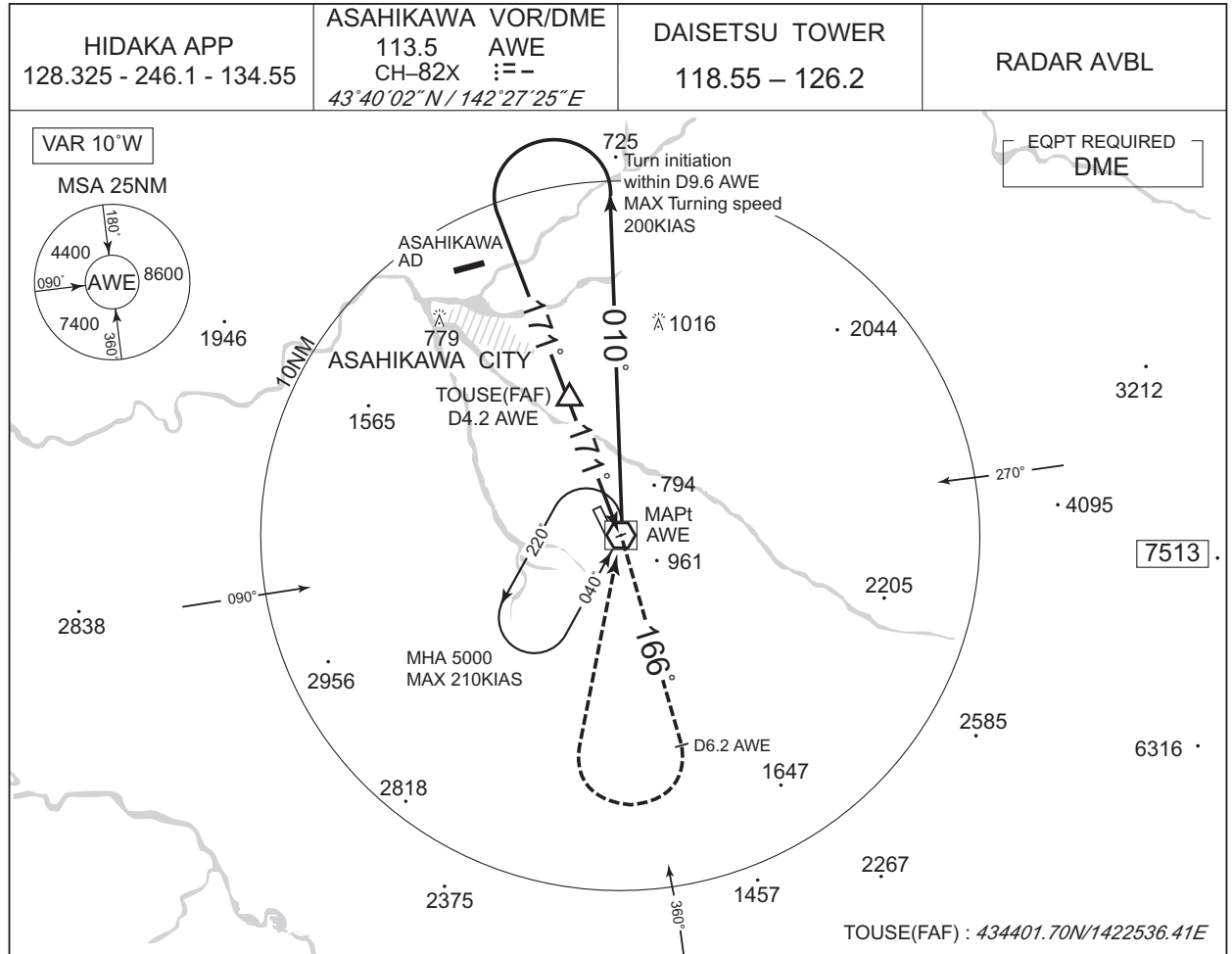


CHANGE : ATC call sign and FREQ. Description of RADAR Service. Missed APCH PROC.

INSTRUMENT APPROACH CHART

RJEC / ASAHIKAWA

VOR C



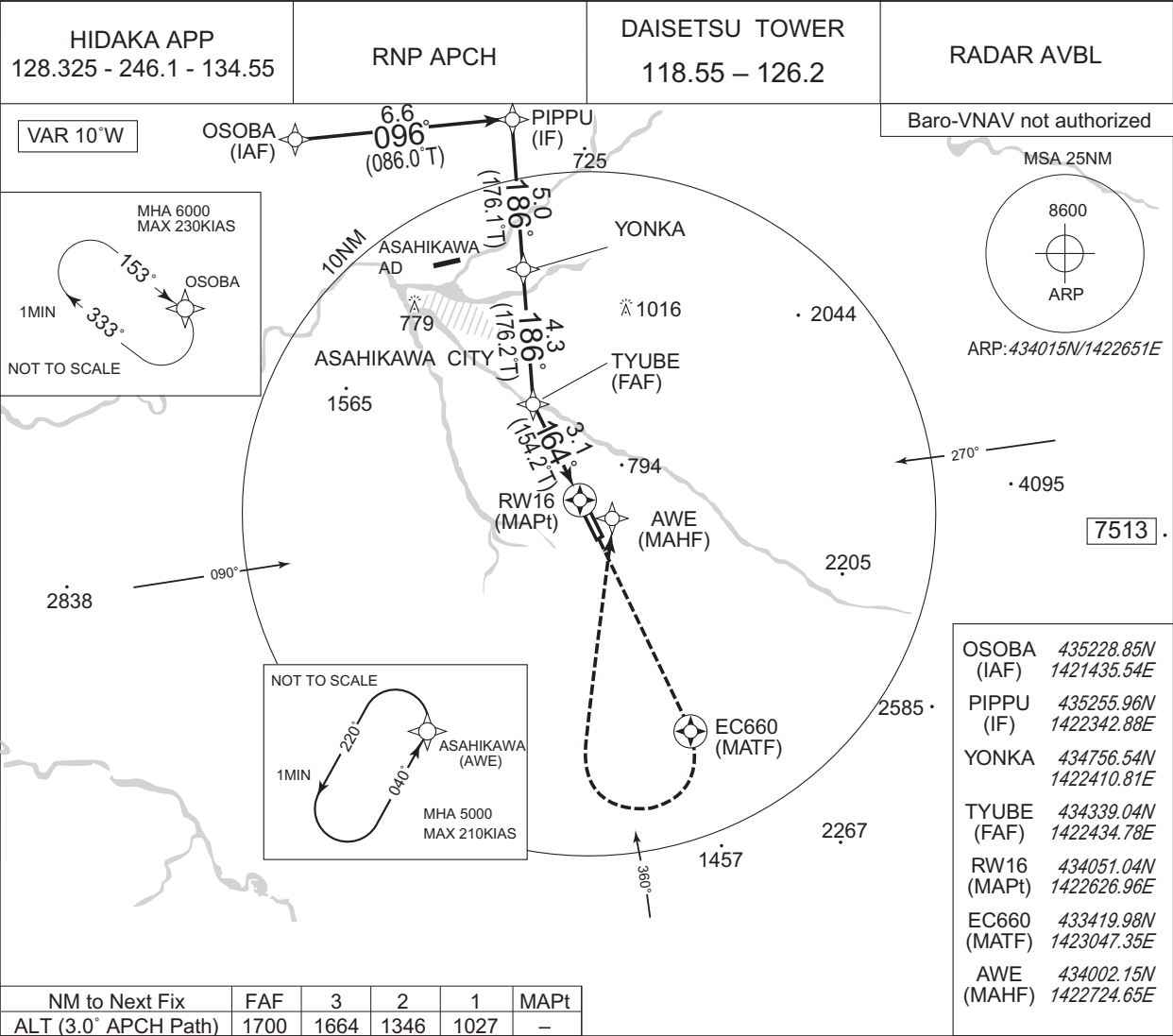
MINIMA		AD elev. 690
CAT	CIRCLING	
	MDA(H)	VIS
A	1330 (640)	1600
B		
C	1560 (870)	2400
D		3200

CHANGE : VAR.

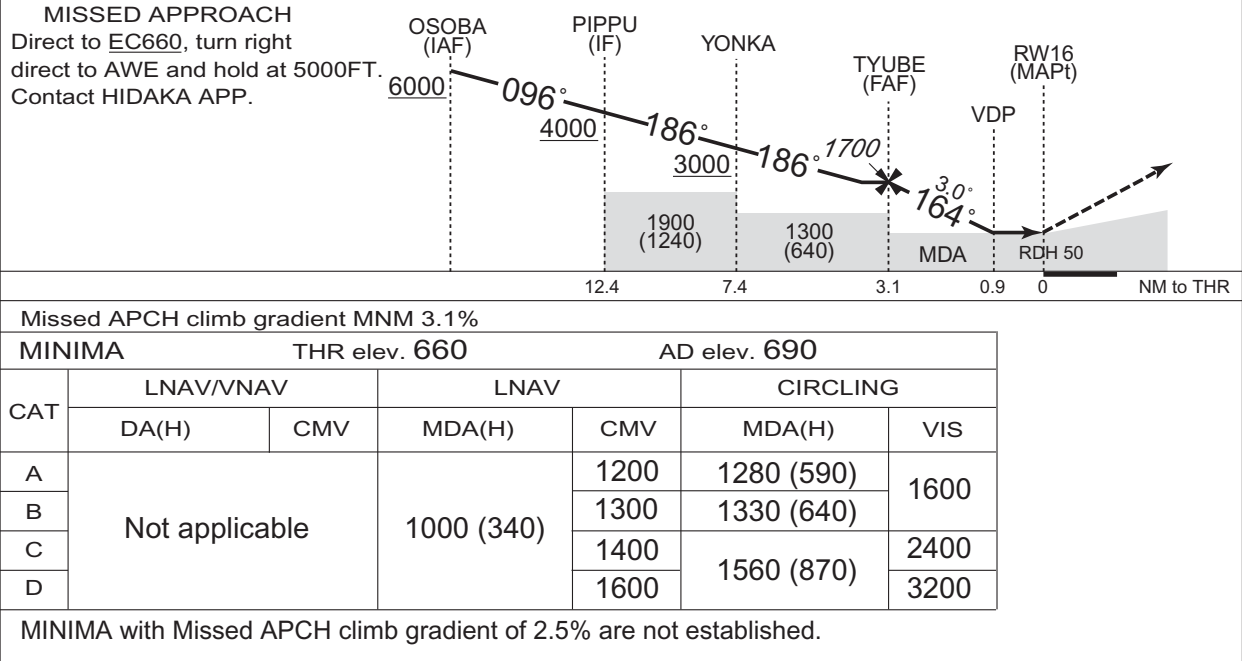
INSTRUMENT APPROACH CHART

RJEC / ASAHIKAWA

RNP Z RWY16



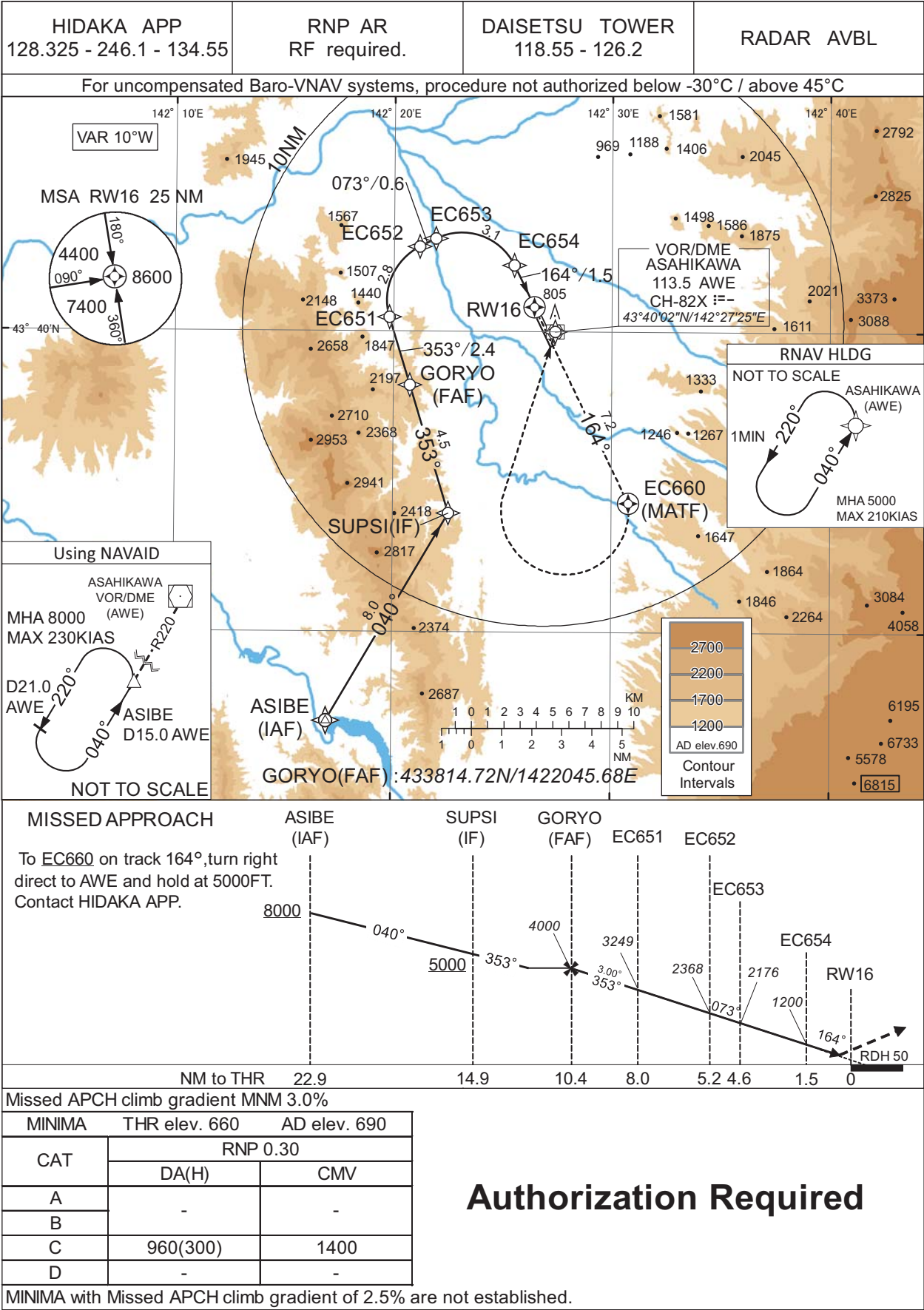
CHANGE : Description of HLDG pattern, SDF.



INSTRUMENT APPROACH CHART

RJEC / ASAHIKAWA

RNP Y RWY16(AR)



## INSTRUMENT APPROACH CHART

RJEC / ASAHIKAWA

RNP Y RWY16(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	ASIBE	-	-	-9.9	-	-	+8000	-	-	-
002	TF	SUPSI	-	040 (030.1)	-9.9	8.0	-	+5000	-	-	1.0
003	TF	GORYO	-	353 (343.1)	-9.9	4.5	-	4000	-	-	1.0
004	TF	EC651	-	353 (343.0)	-9.9	2.4	-	3249	-	-3.00	0.30
005	RF Center: ECRF1 r=1.98NM	EC652	-	-	-9.9	2.8	R	2368	-	-3.00	0.30
006	TF	EC653	-	073 (063.0)	-9.9	0.6	-	2176	-	-3.00	0.30
007	RF Center: ECRF2 r=1.93NM	EC654	-	-	-9.9	3.1	R	1200	-	-3.00	0.30
008	TF	RW16	Y	164 (154.2)	-9.9	1.5	-	710	-	-3.00/50	0.30
009	CF	EC660	Y	164 (154.2)	-9.9	7.2	-	-	-	-	1.0
010	DF	AWE	-	-	-9.9	-	R	5000	-	-	1.0

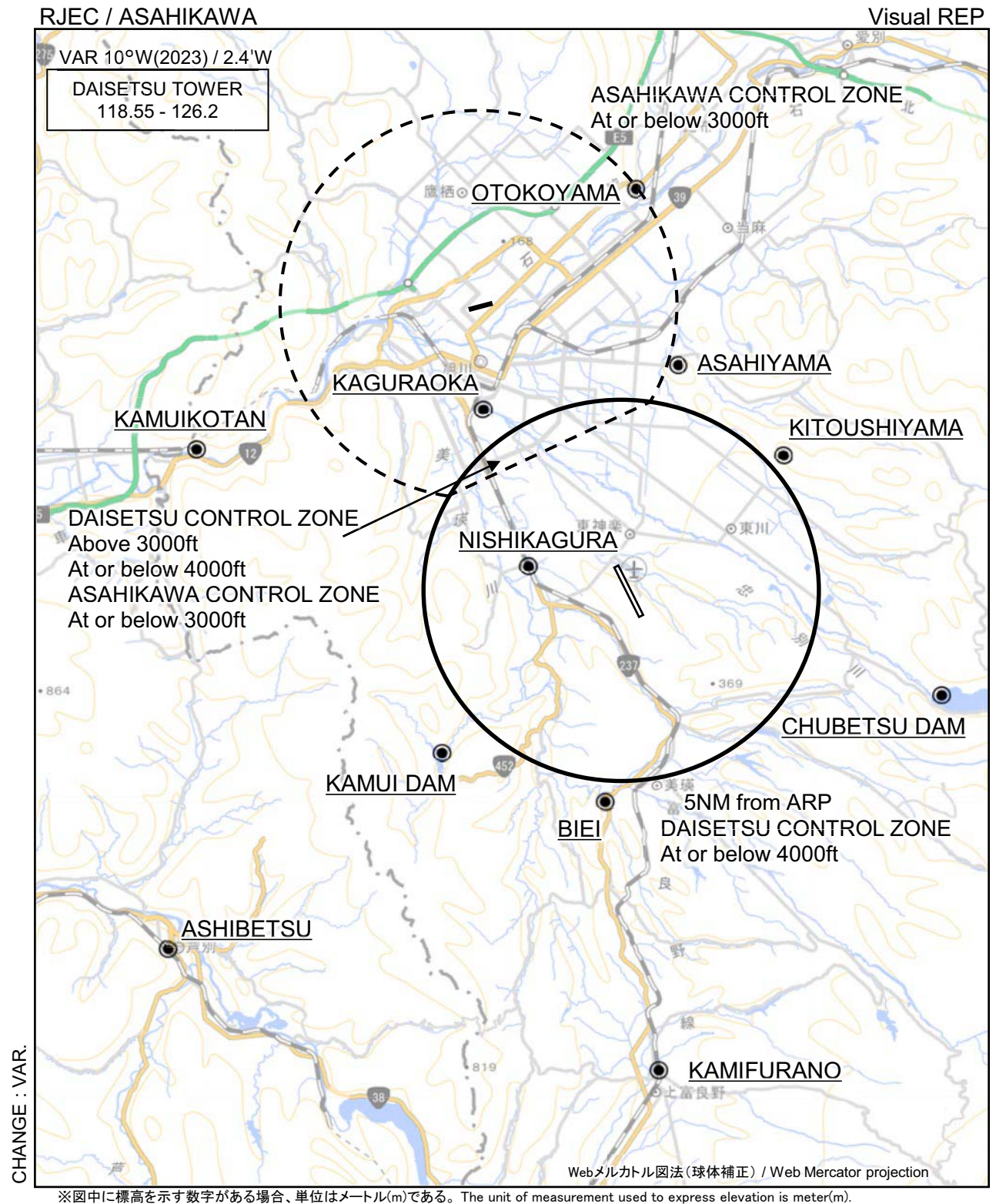
Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	RNP Value
Hold	AWE	040 (030.6)	-9.9	1.0 (-14000)	L	5000	FL140	-210 (-14000)	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
ASIBE	432703.98N / 1421700.93E	ECRF1	434104.78N / 1422225.25E
SUPSI	433359.28N / 1422233.14E	ECRF2	434123.69N / 1422307.68E
GORYO	433814.72N / 1422045.68E		
EC651	434030.03N / 1421948.65E		
EC652	434250.78N / 1422111.17E		
EC653	434307.07N / 1422155.45E		
EC654	434214.29N / 1422531.40E		
RW16	434051.04N / 1422626.96E		
EC660	433419.98N / 1423047.35E		
AWE	434002.15N / 1422724.65E		

CHANGE : VAR. SUPSI established. EC650 abolished.





RJEC / ASAHIKAWA

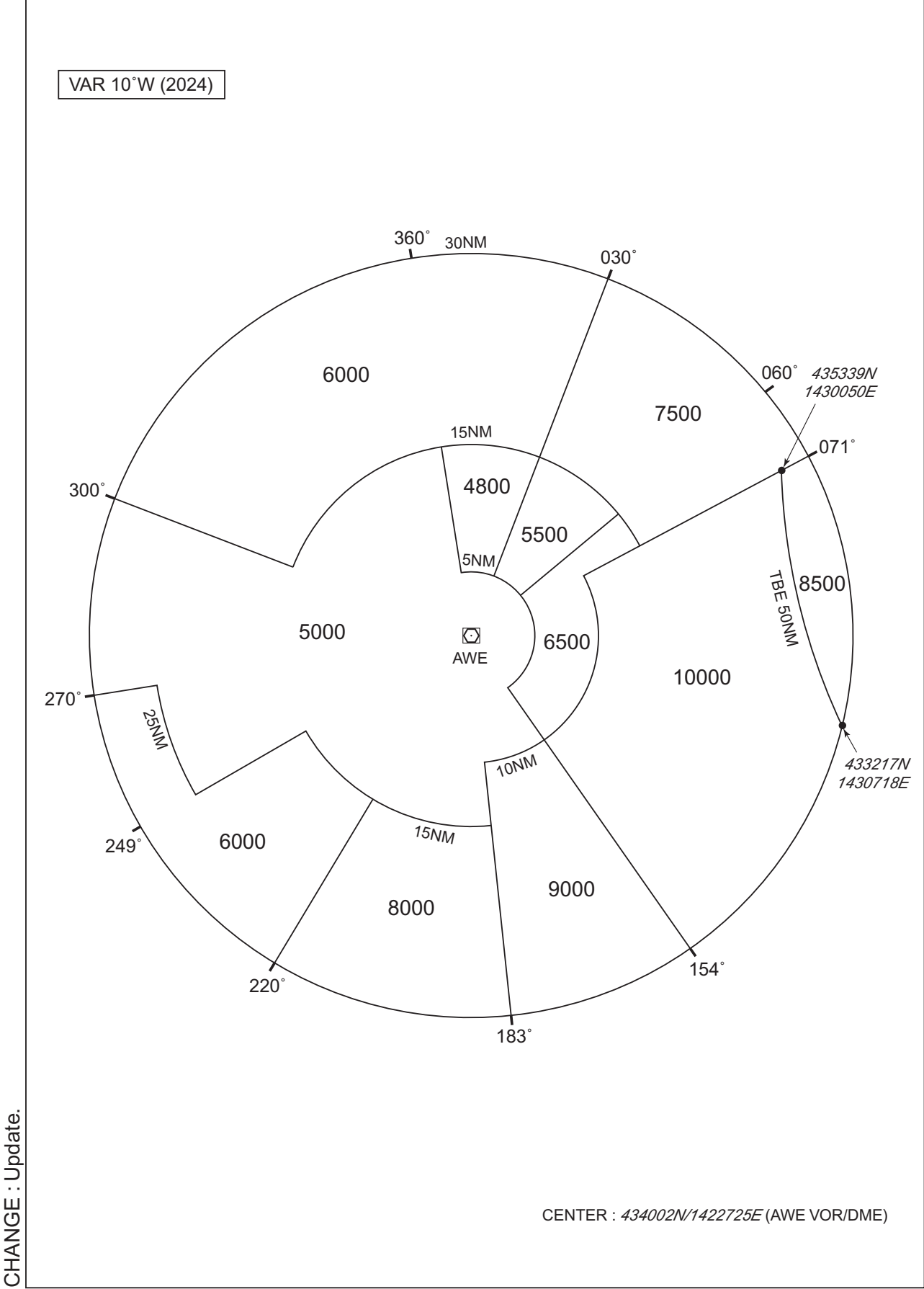
Visual REP

Call sign	BRG / DIST from ARP	Remarks
男山 Otokoyama	002°T / 10.4NM	男山自然公園 Park
旭山 Asahiyama	014°T / 6.0NM	旭山動物園 Zoo
神楽岡 Kaguraoka	324°T / 5.9NM	神楽岡公園 Park
神居古潭 Kamuikotan	289°T / 11.3NM	橋 Bridge
岐登牛山 Kitoushiyama	049°T / 5.4NM	スキー場 Ski ground
西神楽 Nishikagura	286°T / 2.4NM	JR駅 Station
忠別ダム Chubetsu dam	108°T / 8.5NM	ダム Dam
神居ダム Kamui dam	227°T / 6.2NM	ダム Dam
美瑛 Biei	184°T / 5.5NM	道路(大曲) Road
芦別 Ashibetsu	231°T / 14.7NM	JR駅 Station
上富良野 Kamifurano	176°T / 12.4NM	JR駅 Station

CHANGE : Visual REP established(Otokoyama).

RJEC / ASAHIKAWA

Minimum Vectoring Altitude CHART





**INTENTIONALLY LEFT BLANK**