

AD CHART



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STANDARD DEPARTURE CHART-INSTRUMENT

RJEB / MONBETSU

SID and TRANSITION

MONBETSU REVERSAL FIVE DEPARTURE

RWY14 : Climb RWY HDG to 600FT, turn left HDG050°, to 2500FT turn left,...

RWY32 : Climb RWY HDG to 500FT, turn right HDG050°, to 2500FT turn right,...
...direct to MVE VOR/DME.

Cross MVE VOR/DME at or above 4000FT.

Note RWY14 : 5.0% climb gradient required up to 900FT.

OBST ALT 591FT located at 2.7NM 156° FM end of RWY14.

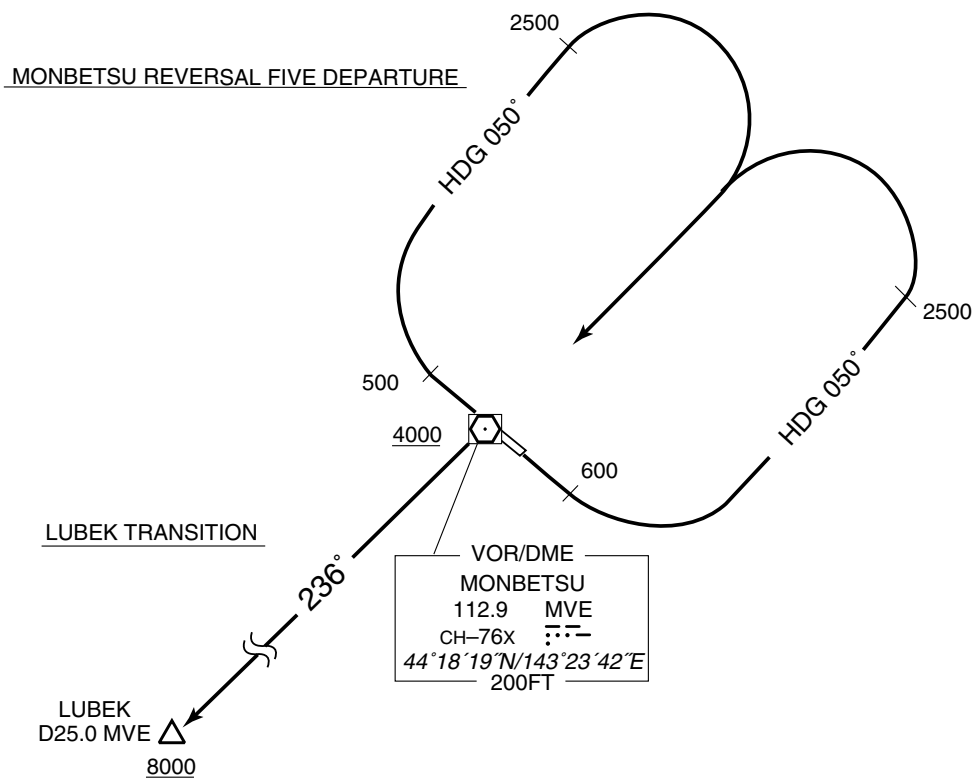
RWY32: 4.3% climb gradient required up to 800FT.

OBST ALT 657FT located at 3.5NM 316° FM end of RWY32.

LUBEK TRANSITION

From over MVE VOR/DME, proceed via MVE R236 to LUBEK.

Cross LUBEK at or above 8000FT.

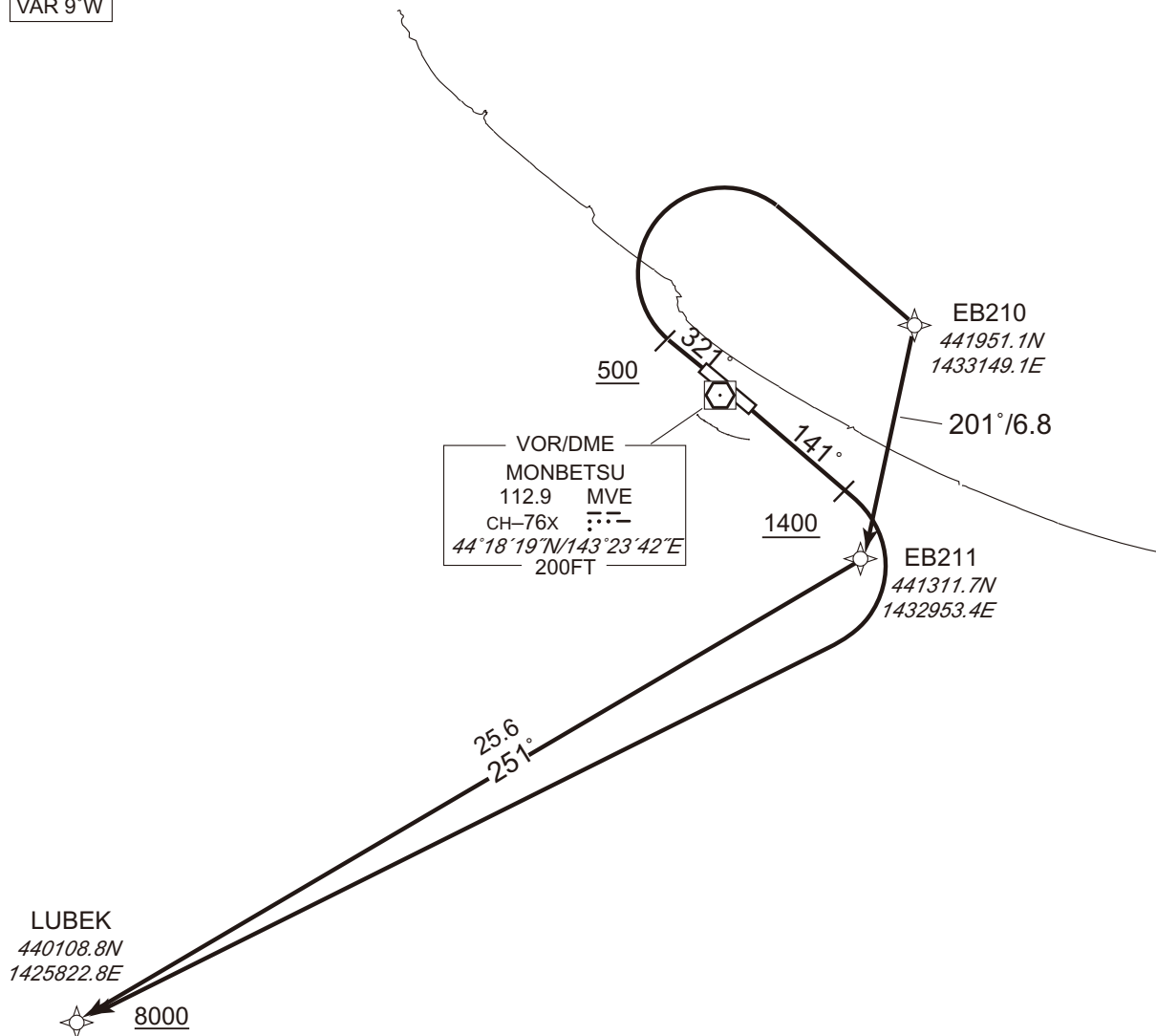


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<u>RNAV SID</u>	Altitude	Speed	Heading	Remarks
01	1000	180	180	Initial climb
02	1500	180	180	Climb to 1500 ft
03	2000	180	180	Climb to 2000 ft
04	2500	180	180	Climb to 2500 ft
05	3000	180	180	Climb to 3000 ft
06	3500	180	180	Climb to 3500 ft
07	4000	180	180	Climb to 4000 ft
08	4500	180	180	Climb to 4500 ft
09	5000	180	180	Climb to 5000 ft
10	5500	180	180	Climb to 5500 ft
11	6000	180	180	Climb to 6000 ft
12	6500	180	180	Climb to 6500 ft
13	7000	180	180	Climb to 7000 ft
14	7500	180	180	Climb to 7500 ft
15	8000	180	180	Climb to 8000 ft
16	8500	180	180	Climb to 8500 ft
17	9000	180	180	Climb to 9000 ft
18	9500	180	180	Climb to 9500 ft
19	10000	180	180	Climb to 10000 ft
20	10500	180	180	Climb to 10500 ft
21	11000	180	180	Climb to 11000 ft
22	11500	180	180	Climb to 11500 ft
23	12000	180	180	Climb to 12000 ft
24	12500	180	180	Climb to 12500 ft
25	13000	180	180	Climb to 13000 ft
26	13500	180	180	Climb to 13500 ft
27	14000	180	180	Climb to 14000 ft
28	14500	180	180	Climb to 14500 ft
29	15000	180	180	Climb to 15000 ft
30	15500	180	180	Climb to 15500 ft
31	16000	180	180	Climb to 16000 ft
32	16500	180	180	Climb to 16500 ft
33	17000	180	180	Climb to 17000 ft
34	17500	180	180	Climb to 17500 ft
35	18000	180	180	Climb to 18000 ft
36	18500	180	180	Climb to 18500 ft
37	19000	180	180	Climb to 19000 ft
38	19500	180	180	Climb to 19500 ft
39	20000	180	180	Climb to 20000 ft
40	20500	180	180	Climb to 20500 ft
41	21000	180	180	Climb to 21000 ft
42	21500	180	180	Climb to 21500 ft
43	22000	180	180	Climb to 22000 ft
44	22500	180	180	Climb to 22500 ft
45	23000	180	180	Climb to 23000 ft
46	23500	180	180	Climb to 23500 ft
47	24000	180	180	Climb to 24000 ft
48	24500	180	180	Climb to 24500 ft
49	25000	180	180	Climb to 25000 ft
50	25500	180	180	Climb to 25500 ft
51	26000	180	180	Climb to 26000 ft
52	26500	180	180	Climb to 26500 ft
53	27000	180	180	Climb to 27000 ft
54	27500	180	180	Climb to 27500 ft
55	28000	180	180	Climb to 28000 ft
56	28500	180	180	Climb to 28500 ft
57	29000	180	180	Climb to 29000 ft
58	29500	180	180	Climb to 29500 ft
59	30000	180	180	Climb to 30000 ft
60	30500	180	180	Climb to 30500 ft
61	31000	180	180	Climb to 31000 ft
62	31500	180	180	Climb to 31500 ft
63	32000	180	180	Climb to 32000 ft
64	32500	180	180	Climb to 32500 ft
65	33000	180	180	Climb to 33000 ft
66	33500	180	180	Climb to 33500 ft
67	34000	180	180	Climb to 34000 ft
68	34500	180	180	Climb to 34500 ft

RNP1

VAR 9°W



RWY32 : 5.0% climb gradient required up to 700FT.
OBST ALT 657FT located at 3.4NM 318° FM end of RWY32.

CHANGE : Navigation Specification(Basic RNP1 \rightarrow RNP1).

STANDARD DEPARTURE CHART-INSTRUMENT

RJEB / MONBETSU

RNAV SID

LUBEK ONE DEPARTURE

RWY14

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	-	-	141 (132.0)	-9.2	-	-	+1400	-	-	RNP1
002	DF	LUBEK	-	-	-9.2	-	R	+8000	-	-	RNP1

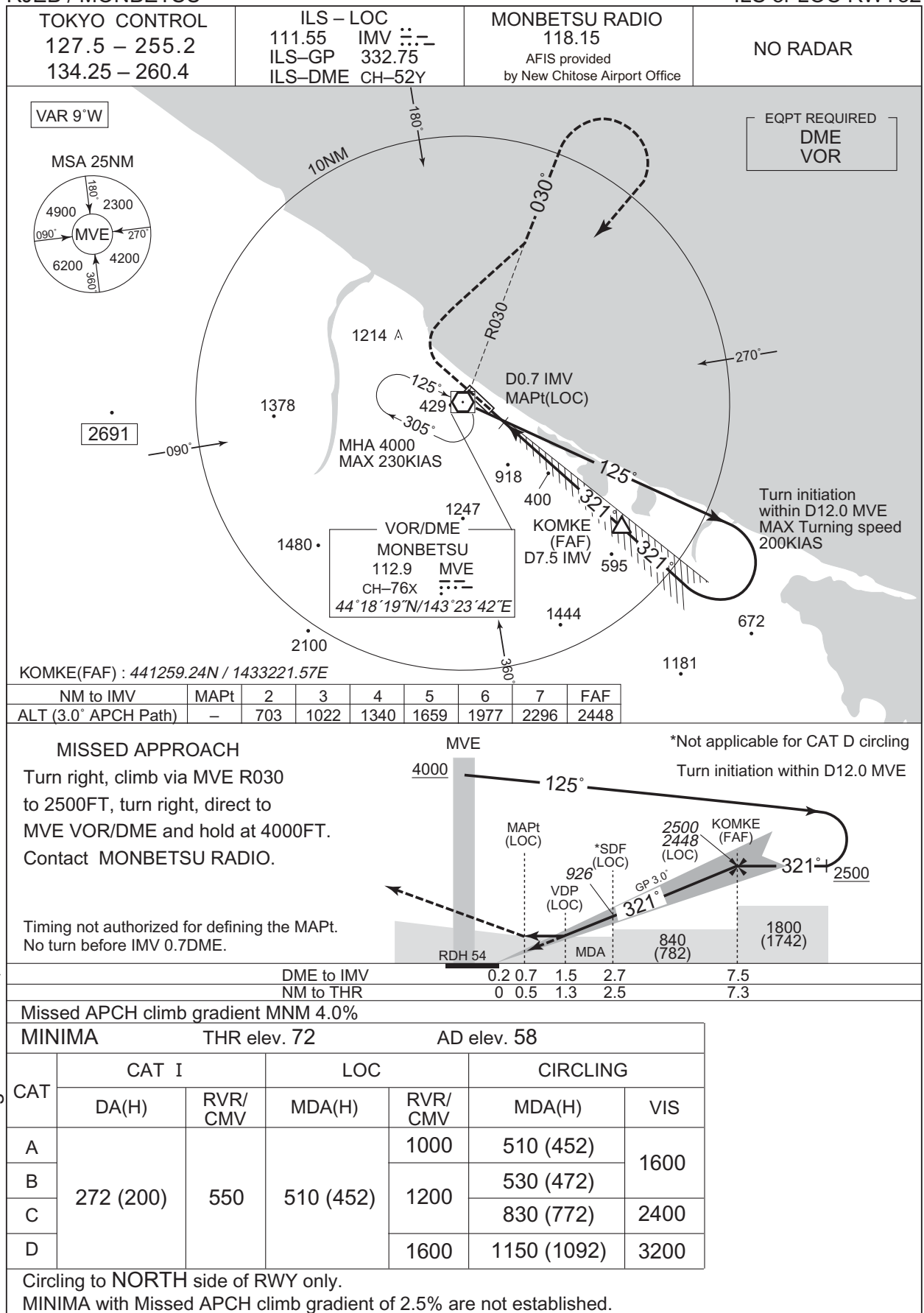
RWY32

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	-	-	321 (312.0)	-9.2	-	-	+500	-	-	RNP1
002	DF	EB210	-	-	-9.2	-	R	-	-	-	RNP1
003	TF	EB211	-	201 (191.7)	-9.2	6.8	-	-	-	-	RNP1
004	TF	LUBEK	-	251 (242.1)	-9.2	25.6	-	+8000	-	-	RNP1

INSTRUMENT APPROACH CHART

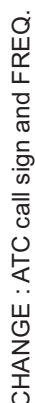
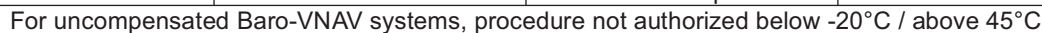
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ILS or LOC RWY32



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RNP RWY14(AR)



Climb to 8000FT, to EB456,
to EB457, to LUBEK and hold.
Contact MONBETSU RADIO.

Missed APCH climb gradient MNM 5.0%				
MINIMA		THR elev. 80	AD elev. 58	
CAT	RNP 0.10		RNP 0.30	
	DA(H)	CMV	DA(H)	CMV
A	-	-	-	-
B		-	-	-
C	384(304)	1400	653(573)	1600
D		1600		1800
MINIMA with Missed APCH climb gradient of 2.5% are not established.				

Authorization Required

INSTRUMENT APPROACH CHART

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RNP RWY14(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	LUBEK	-	-	-9.8	-	-	+8000	-	-	-
002	TF	EB450	-	040 (030.0)	-9.8	16.0	-	+4200	-	-	1.0
003	TF	EB451	-	040 (030.1)	-9.8	5.8	-	3300	-	-	1.0
004	TF	EB452	-	040 (030.2)	-9.8	1.5	-	2836	-165	-3.00	0.10 0.30
005	RF Center: EBRF1 r=2.30NM	EB453	-	-	-9.8	4.8	R	1303	-	-3.00	0.10 0.30
006	TF	EB454	-	160 (150.4)	-9.8	0.6	-	1112	-	-3.00	0.10 0.30
007	RF Center: EBRF2 r=2.01NM	EB455	-	-	-9.8	0.6	L	906	-	-3.00	0.10 0.30
008	TF	RW14	Y	142 (132.0)	-9.8	2.4	-	130	-	-3.00/50	0.10 0.30
009	TF	EB456	-	142 (132.0)	-9.8	6.9	-	-	-	-	1.0
010	TF	EB457	-	227 (216.9)	-9.8	8.0	-	-	-	-	1.0
011	TF	LUBEK	-	261 (251.0)	-9.8	19.6	-	8000	-	-	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	LUBEK	056 (046.6)	-9.8	1.0 (-14000)	R	8000	FL140	-230 (-14000)	1.0

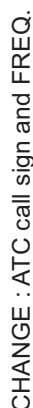
Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
LUBEK	440108.77N / 1425822.82E	EBRF1	442006.33N / 1431723.55E
EB450	441459.20N / 1430931.88E	EBRF2	442143.27N / 1432301.39E
EB451	442000.44N / 1431336.15E		
EB452	442115.89N / 1431437.46E		
EB453	442114.78N / 1432010.52E		
EB454	442043.51N / 1432035.39E		
EB455	442013.50N / 1432109.15E		
RW14	441835.73N / 1432340.93E		
EB456	441358.25N / 1433050.46E		
EB457	440734.71N / 1432409.46E		

CHANGE : VAR. PROC course. RNAV HLDG established. Missed APCH course.

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RNP RWY32(AR)



INSTRUMENT APPROACH CHART

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RNP RWY32(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	LUBEK	-	-	-9.8	-	-	+8000	-	-	-
002	TF	EB250	-	070 (060.6)	-9.8	16.0	-	+4200	-	-	1.0
003	TF	EB251	-	071 (060.8)	-9.8	3.5	-	+3100	-	-	1.0
004	TF	EB252	-	071 (060.8)	-9.8	2.6	-	2700	-	-	1.0
005	TF	EB253	-	071 (060.9)	-9.8	1.3	-	2282	-165	-3.00	0.14 0.30
006	RF Center: EBRF3 r=2.27NM	EB254	-	-	-9.8	4.3	L	906	-	-3.00	0.14 0.30
007	TF	RW32	Y	322 (312.1)	-9.8	2.4	-	126	-	-3.00/54	0.14 0.30
008	TF	EB255	-	322 (312.0)	-9.8	6.6	-	-	-	-	1.0
009	TF	EB256	-	237 (226.8)	-9.8	6.8	-	-	-	-	1.0
010	TF	LUBEK	-	219 (208.8)	-9.8	18.8	-	8000	-	-	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	LUBEK	056 (046.6)	-9.8	1.0 (-14000)	R	8000	FL140	-230 (-14000)	1.0

Waypoint Coordinates

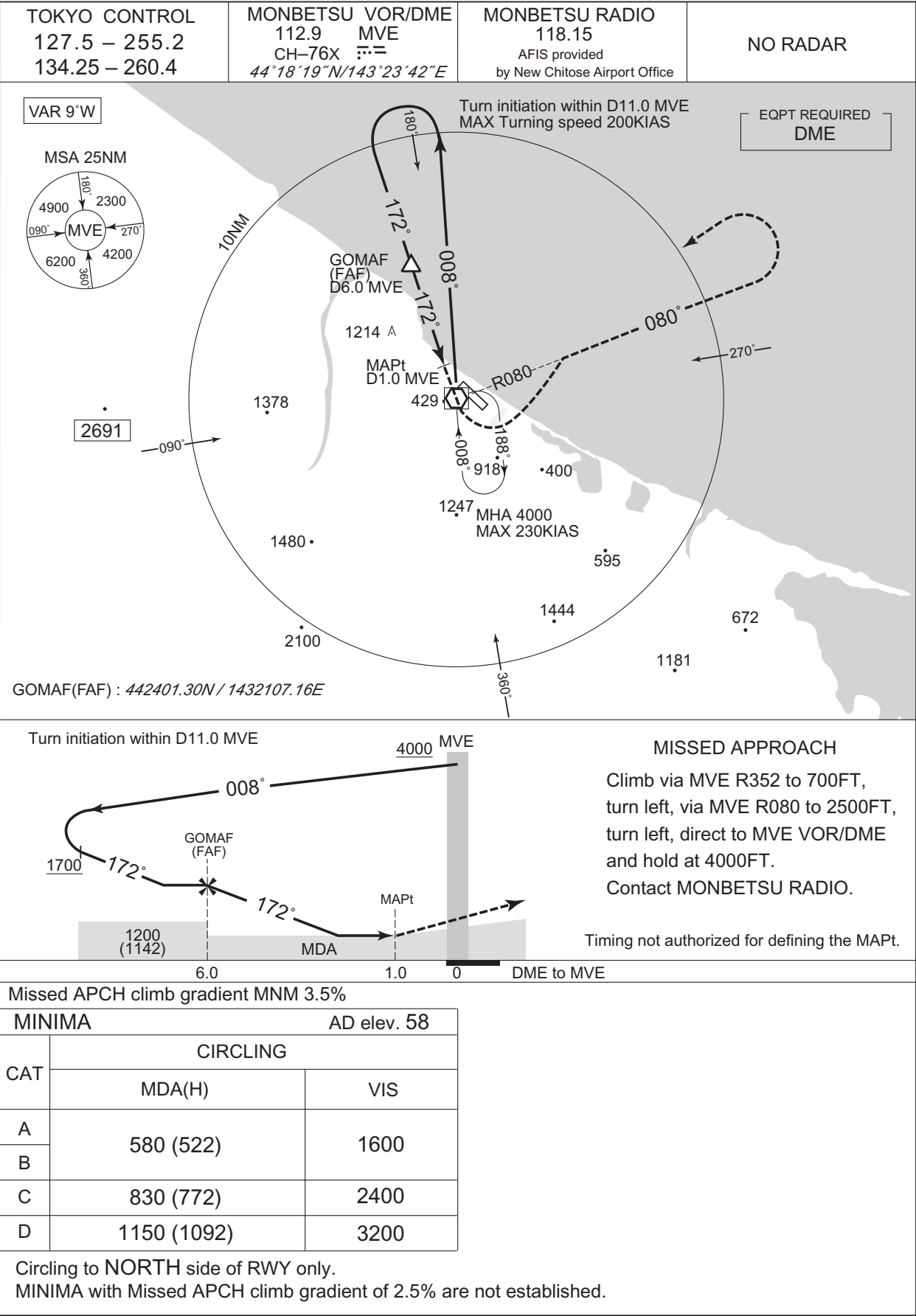
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
LUBEK	440108.77N / 1425822.82E	EBRF3	441432.89N / 1432513.59E
EB250	440857.66N / 1431745.13E		
EB251	441039.77N / 1432200.05E		
EB252	441155.58N / 1432509.72E		
EB253	441233.80N / 1432645.48E		
EB254	441614.19N / 1432720.26E		
RW32	441752.44N / 1432448.06E		
EB255	442218.71N / 1431754.45E		
EB256	441739.47N / 1431100.00E		

CHANGE : VAR. PROC course. RNAV HLDG established. Missed APCH course.

INSTRUMENT APPROACH CHART

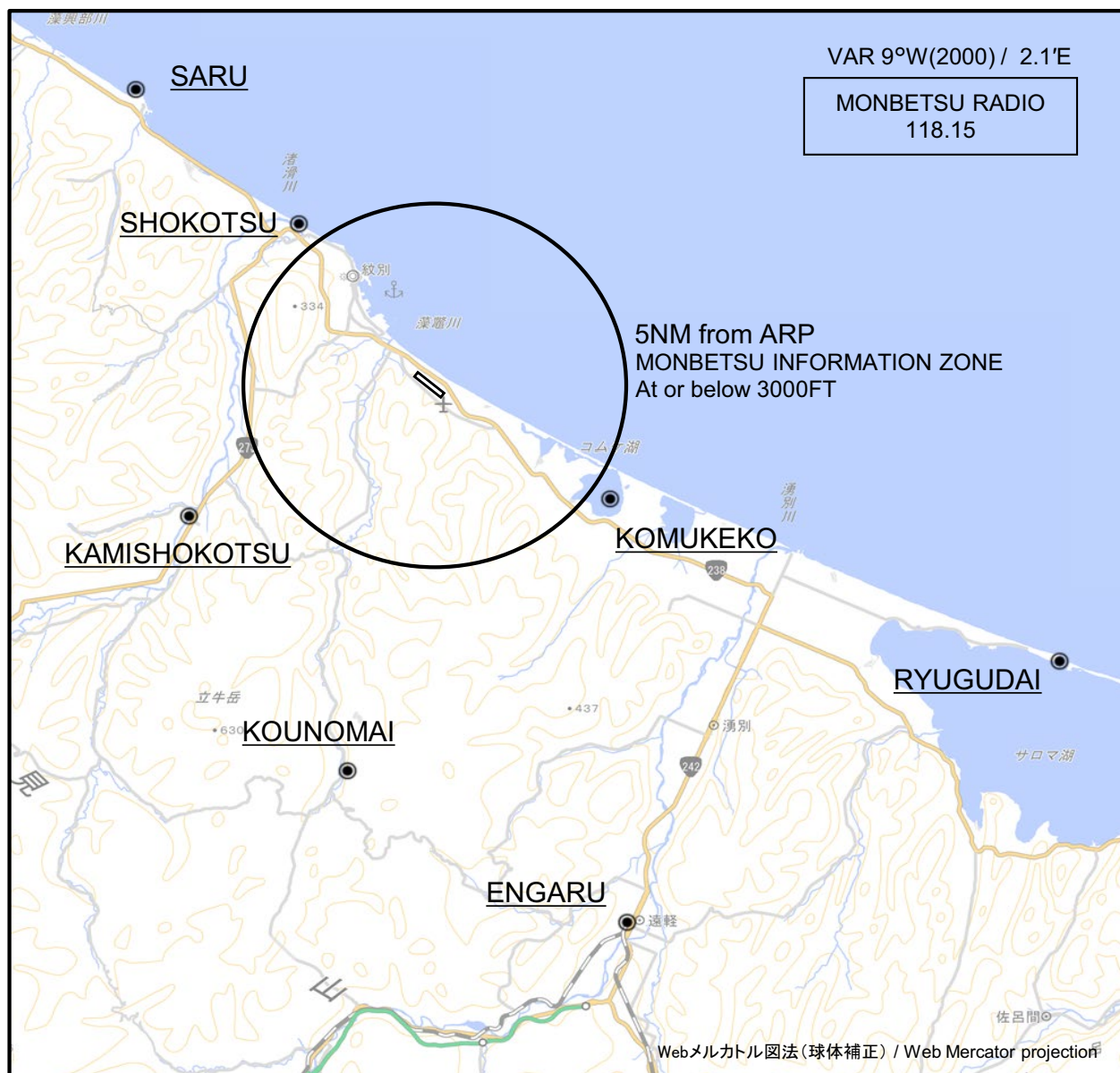
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VOR A



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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 : Call sign(REMOTE→RADIO).

Call sign	BRG / DIST from ARP	Remarks
沙留 Saru	317°T / 11.3NM	岬 Cape
渚滑 Shokotsu	323°T / 5.8NM	渚滑川河口 Mouth of Shokotsu river
コムケ湖 Komukeko	123°T / 5.5NM	湖 Lake
上渚滑 Kamishokotsu	242°T / 7.3NM	橋 Bridge
竜宮台 Ryugudai	114°T / 18.0NM	灯台 Lighthouse
鴻之舞 Kounomai	193°T / 10.6NM	発電所 Power Station
遠軽 Engaru	161°T / 15.5NM	駅 JR Station

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Minimum Vectoring Altitude CHART

CHANGE : Description of VAR.

