

RJEB / MONBETSU

AD CHART



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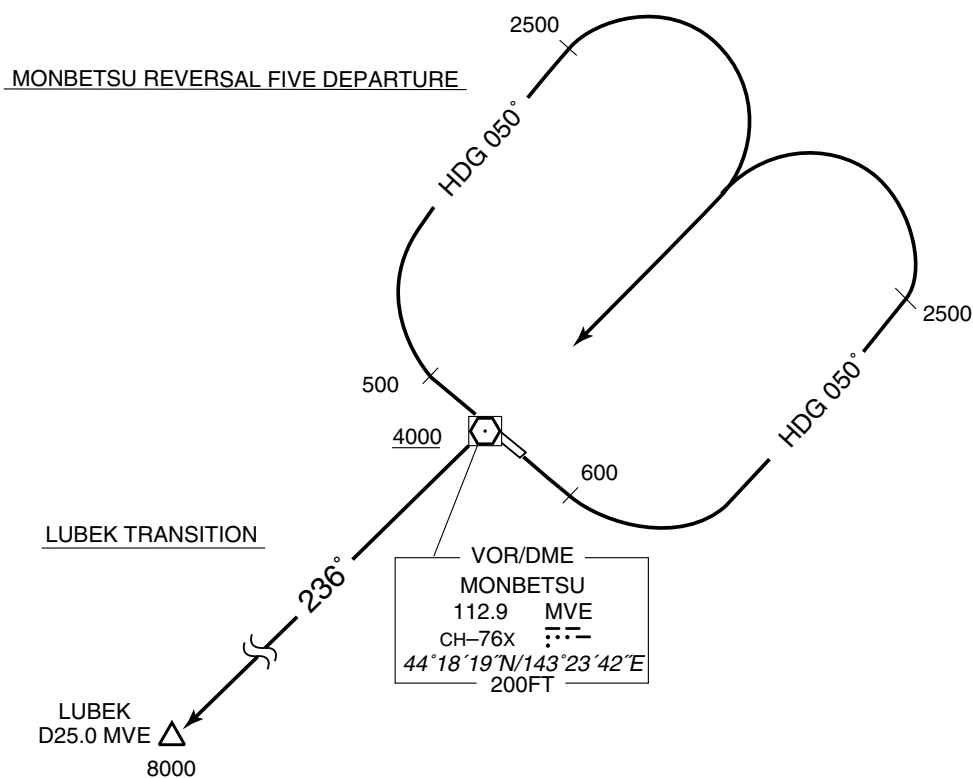
SID and TRANSITION

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.

From over MVE VOR/DME, proceed via MVE R236 to LUBEK.
Cross LUBEK at or above 8000FT.



STANDARD DEPARTURE CHART-INSTRUMENT

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RNAV SID

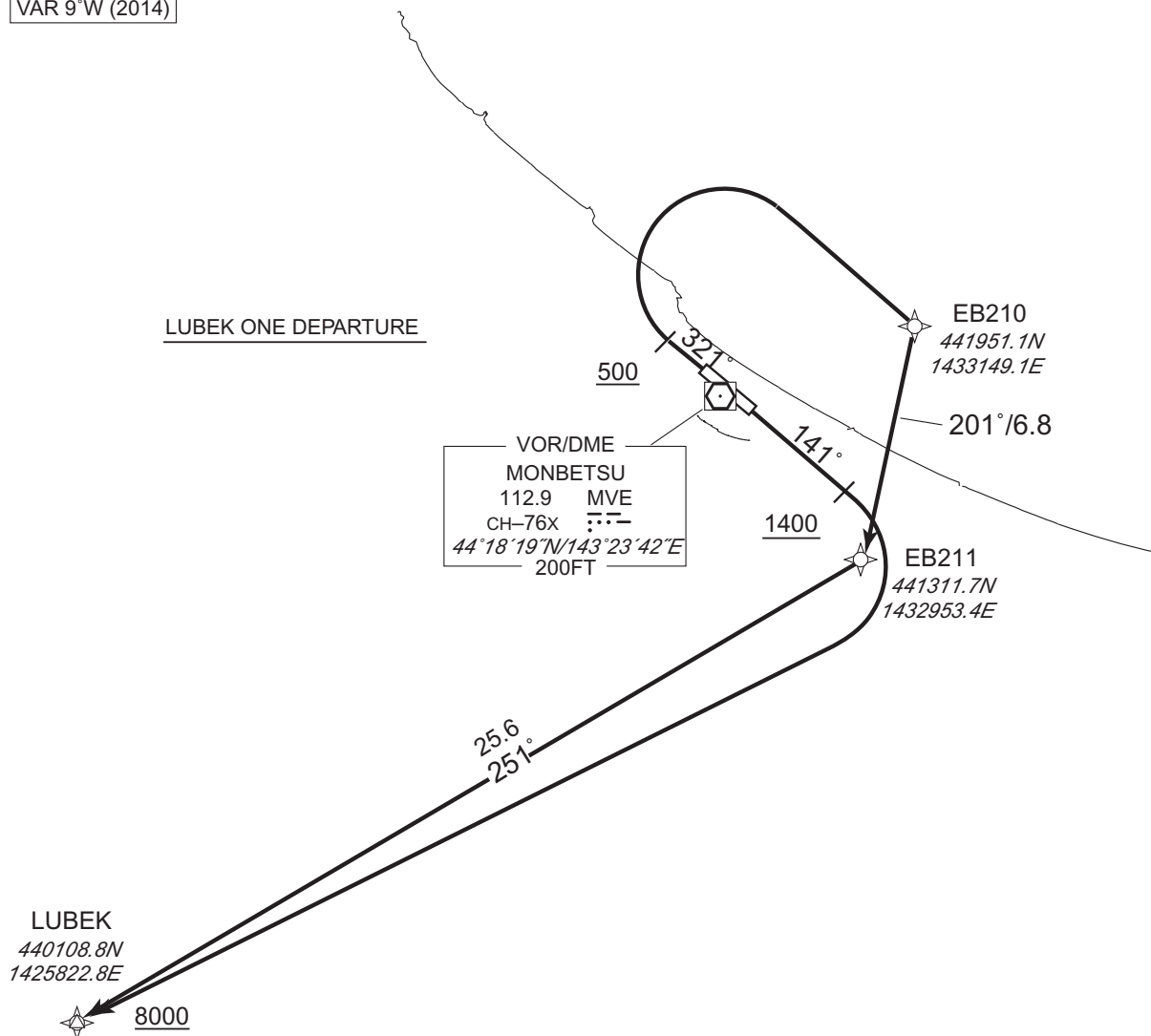
LUBEK ONE DEPARTURE

Basic RNP1

Note GNSS required.

VAR 9°W (2014)

LUBEK ONE DEPARTURE



LUBEK ONE DEPARTURE

RWY14 : Climb on HDG141° at or above 1400FT, turn right direct to LUBEK at or above 8000FT.

RWY32 : Climb on HDG321° at or above 500FT, turn right direct to EB210, to EB211, to LUBEK at or above 8000FT.

Note RWY14 : 5.0% climb gradient required up to 1400FT.
OBST ALT 1182FT located at 2.9NM 172° FM end of RWY14.

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

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

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SAPPORO CONTROL 127.5 – 246.1 134.25 – 260.4	ILS – LOC 111.55 IMV ::- ILS-GP 332.75 ILS-DME CH-52Y	MONBETSU REMOTE 118.15	NO RADAR
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VAR 9°W (2016)

MSA 25NM

EQPT REQUIRED
DME
VOR

2691

1247
 VOR/DME
 MONBETSU
 112.9 MVE
 CH-76X ::-
 44°18'19"N/143°23'42"E

NM to IMV	MAPt	2	3	4	5	6	7	FAF
ALT (3.0° APCH Path)	-	703	1022	1340	1659	1977	2296	2448

*Not applicable for CAT D circling

Turn initiation within D12.0 MVE

4000

125°

2500

2448 (LOC)

KOMKE (FAF)

321°

2500

321°

GP 3.0°

926

VDP (LOC)

*SDF (LOC)

MAPt (LOC)

RDH 54

MDA

840 (782)

1800 (1742)

0.2 0.7 1.5 2.7 7.5

0 0.5 1.3 2.5 7.3

Circling to **NORTH** side of RWY only.
MINIMA with Missed APCH climb gradient of 2.5% are not established.

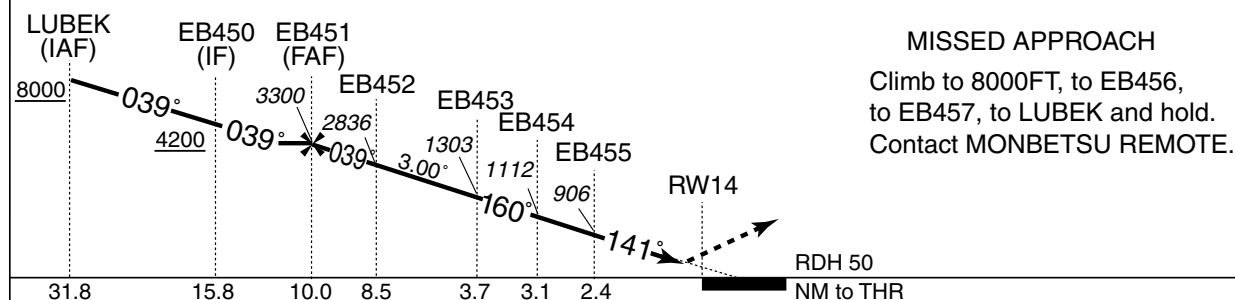
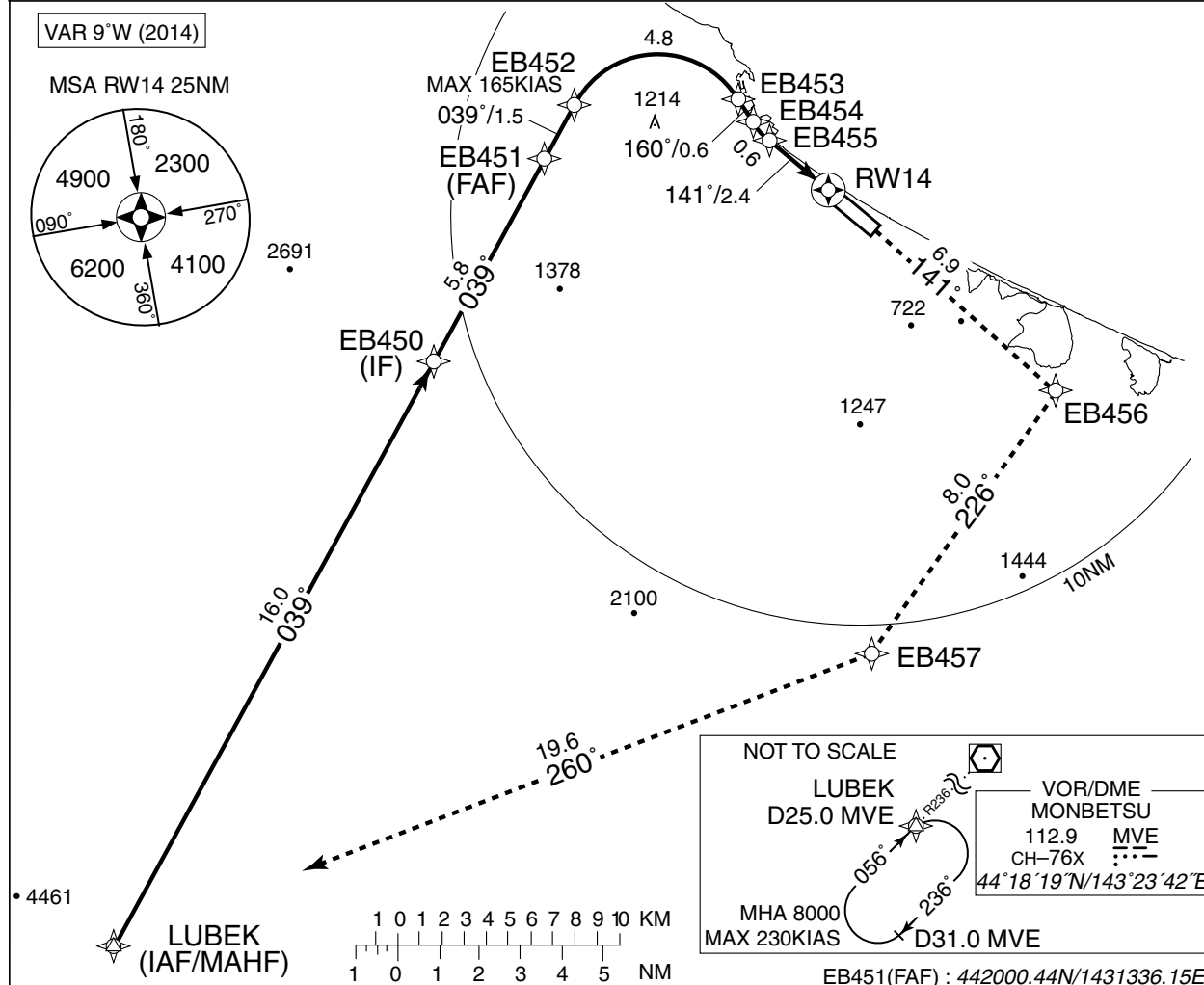
INSTRUMENT APPROACH CHART

RJEB / MONBETSU

RNAV(RNP) RWY14

SAPPORO CONTROL 127.5 – 246.1 134.25 – 260.4	GNSS and RF required.	MONBETSU REMOTE 118.15	NO RADAR
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For uncompensated Baro-VNAV systems, procedure not authorized below -20°C / above 45°C



Missed APCH climb gradient MNM 5.0%

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.

RNP AR

Special Authorization Required

INSTRUMENT APPROACH CHART

RJEB / MONBETSU

RNAV(RNP) RWY14

RNAV(RNP) RWY14Coding 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	—	—	-9.2	—	—	+8000	—	—	—
002	TF	EB450	—	039 (030.0)	-9.2	16.0	—	+4200	—	—	1.0
003	TF	EB451	—	039 (030.1)	-9.2	5.8	—	3300	—	—	1.0
004	TF	EB452	—	039 (030.2)	-9.2	1.5	—	2836	-165	-3.00	0.10 0.30
005	RF Center: EBRF1 r=2.30NM	EB453	—	—	-9.2	4.8	R	1303	—	-3.00	0.10 0.30
006	TF	EB454	—	160 (150.4)	-9.2	0.6	—	1112	—	-3.00	0.10 0.30
007	RF Center: EBRF2 r=2.01NM	EB455	—	—	-9.2	0.6	L	906	—	-3.00	0.10 0.30
008	TF	RW14	Y	141 (132.0)	-9.2	2.4	—	130	—	-3.00/50	0.10 0.30
009	TF	EB456	—	141 (132.0)	-9.2	6.9	—	—	—	—	1.0
010	TF	EB457	—	226 (216.9)	-9.2	8.0	—	—	—	—	1.0
011	TF	LUBEK	—	260 (251.0)	-9.2	19.6	—	8000	—	—	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		

INSTRUMENT APPROACH CHART

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RNAV(RNP) RWY32

RNAV(RNP) RWY32Coding 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	—	—	-9.2	—	—	+8000	—	—	—
002	TF	EB250	—	070 (060.6)	-9.2	16.0	—	+4200	—	—	1.0
003	TF	EB251	—	070 (060.8)	-9.2	3.5	—	+3100	—	—	1.0
004	TF	EB252	—	070 (060.8)	-9.2	2.6	—	2700	—	—	1.0
005	TF	EB253	—	070 (060.9)	-9.2	1.3	—	2282	-165	-3.00	0.14 0.30
006	RF Center: EBRF3 r=2.27NM	EB254	—	—	-9.2	4.3	L	906	—	-3.00	0.14 0.30
007	TF	RW32	Y	321 (312.1)	-9.2	2.4	—	126	—	-3.00/54	0.14 0.30
008	TF	EB255	—	321 (312.0)	-9.2	6.6	—	—	—	—	1.0
009	TF	EB256	—	236 (226.8)	-9.2	6.8	—	—	—	—	1.0
010	TF	LUBEK	—	218 (208.8)	-9.2	18.8	—	8000	—	—	1.0

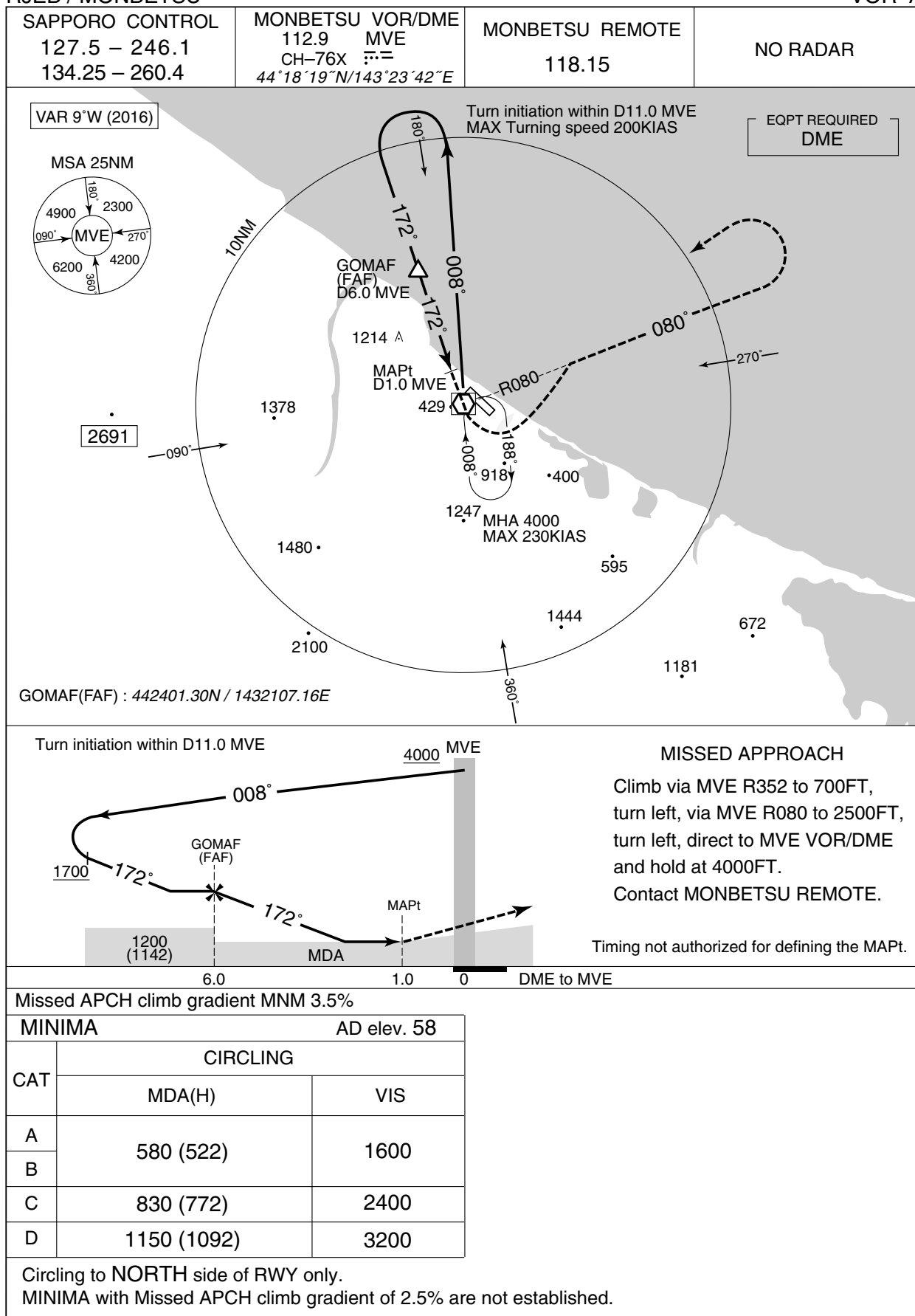
Waypoint Coordinates

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		

INSTRUMENT APPROACH CHART

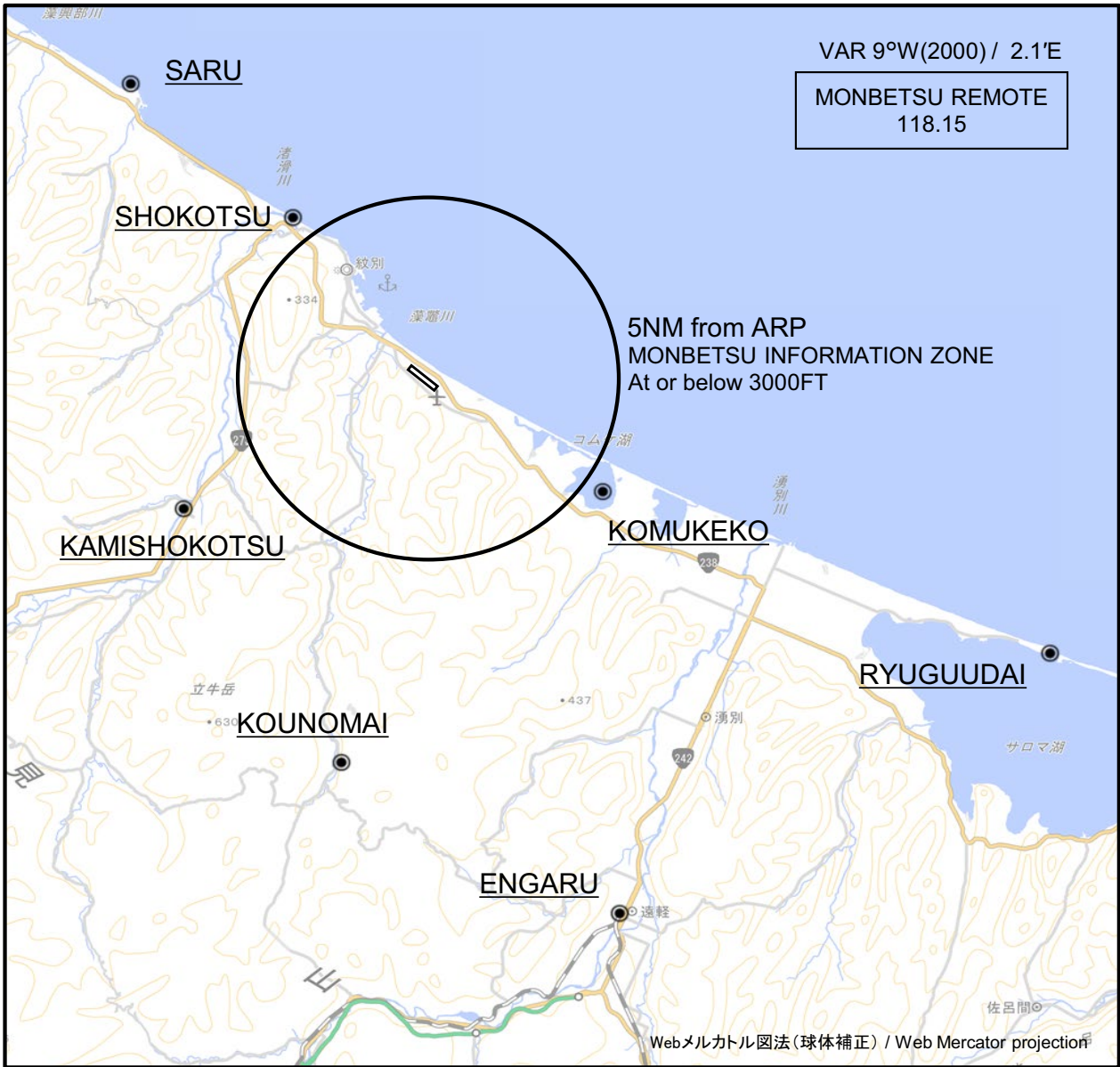
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VOR A



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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 : Map updated. BRG/DIST from ARP.	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 Ryuguudai	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

