

AD CHART



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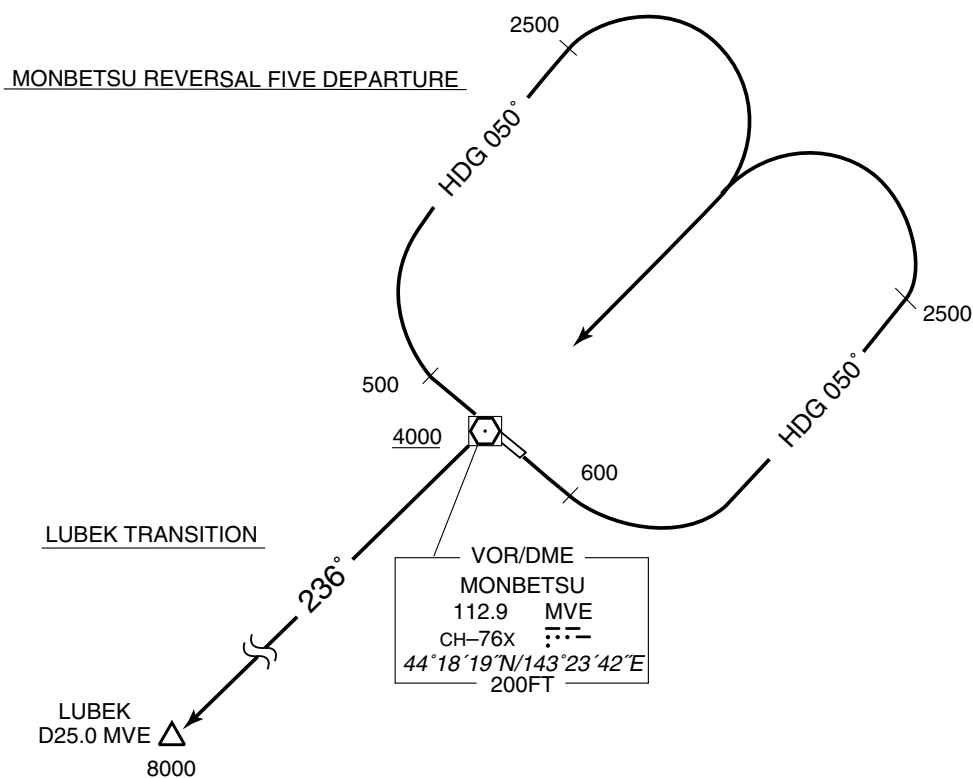
SID and TRANSITION

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.

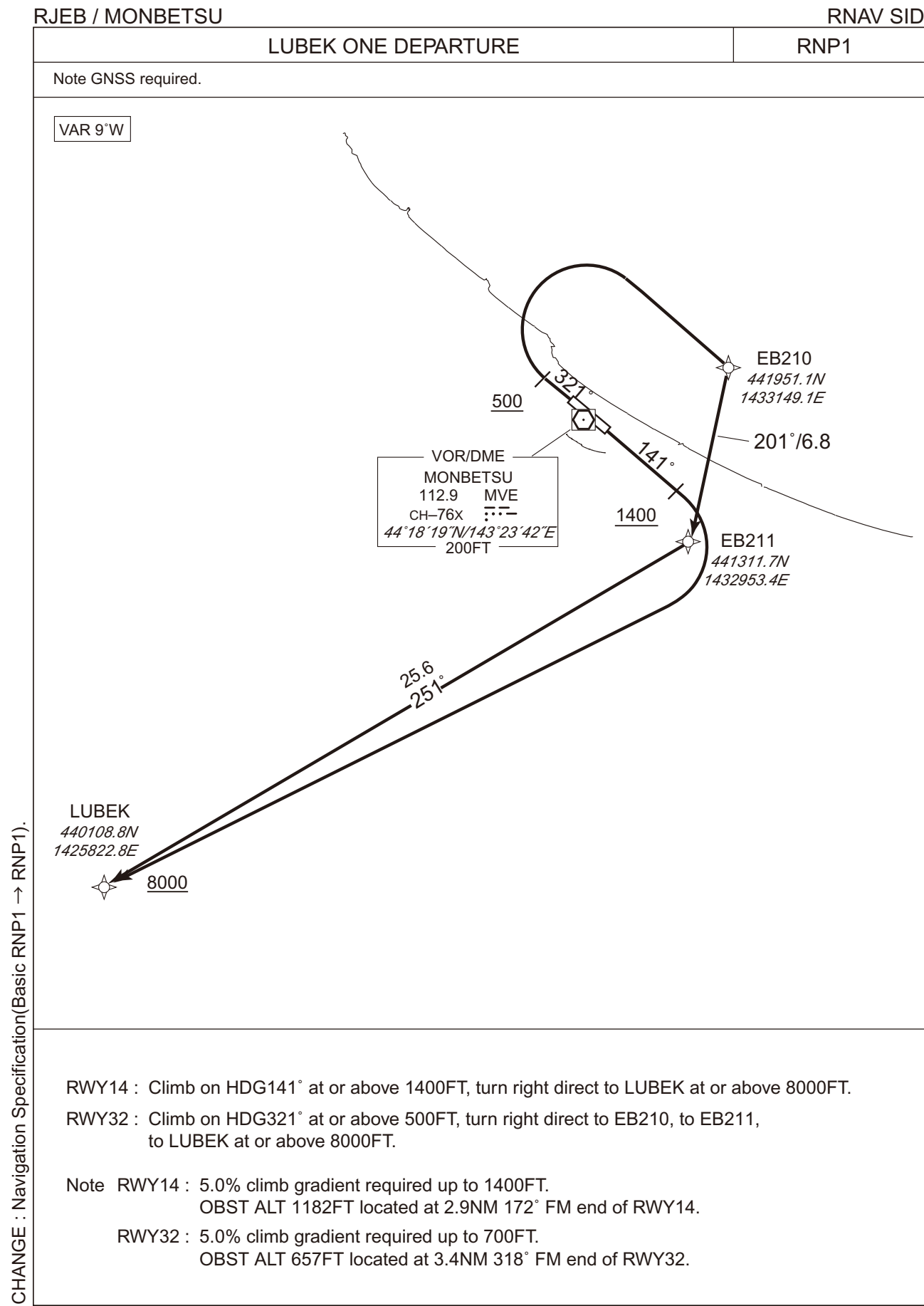
Note RWY14 : 5.0% climb gradient required up to 900FT.
OBST ALT 591FT located at 2.7NM 156° FM end of RWY14.

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



STANDARD DEPARTURE CHART-INSTRUMENT

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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

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ILS or LOC RWY32

CHANGE : ATC call sign and FREQ.

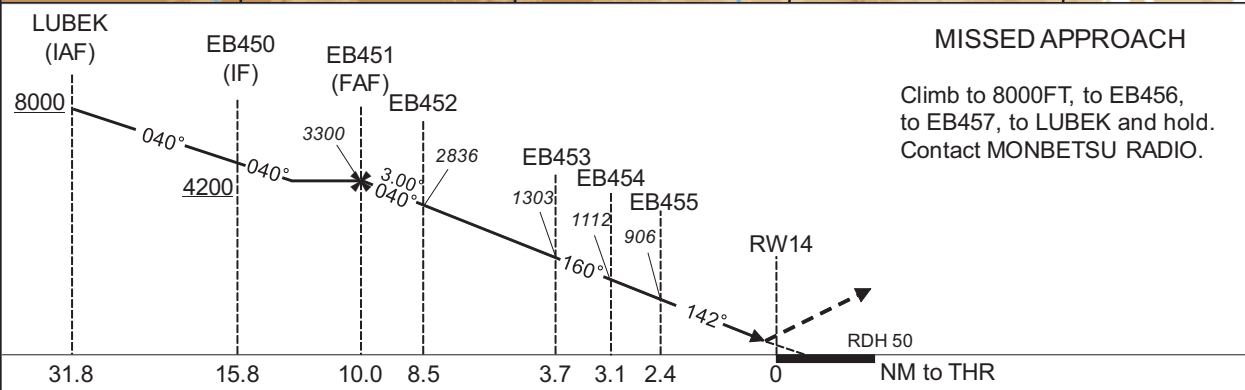
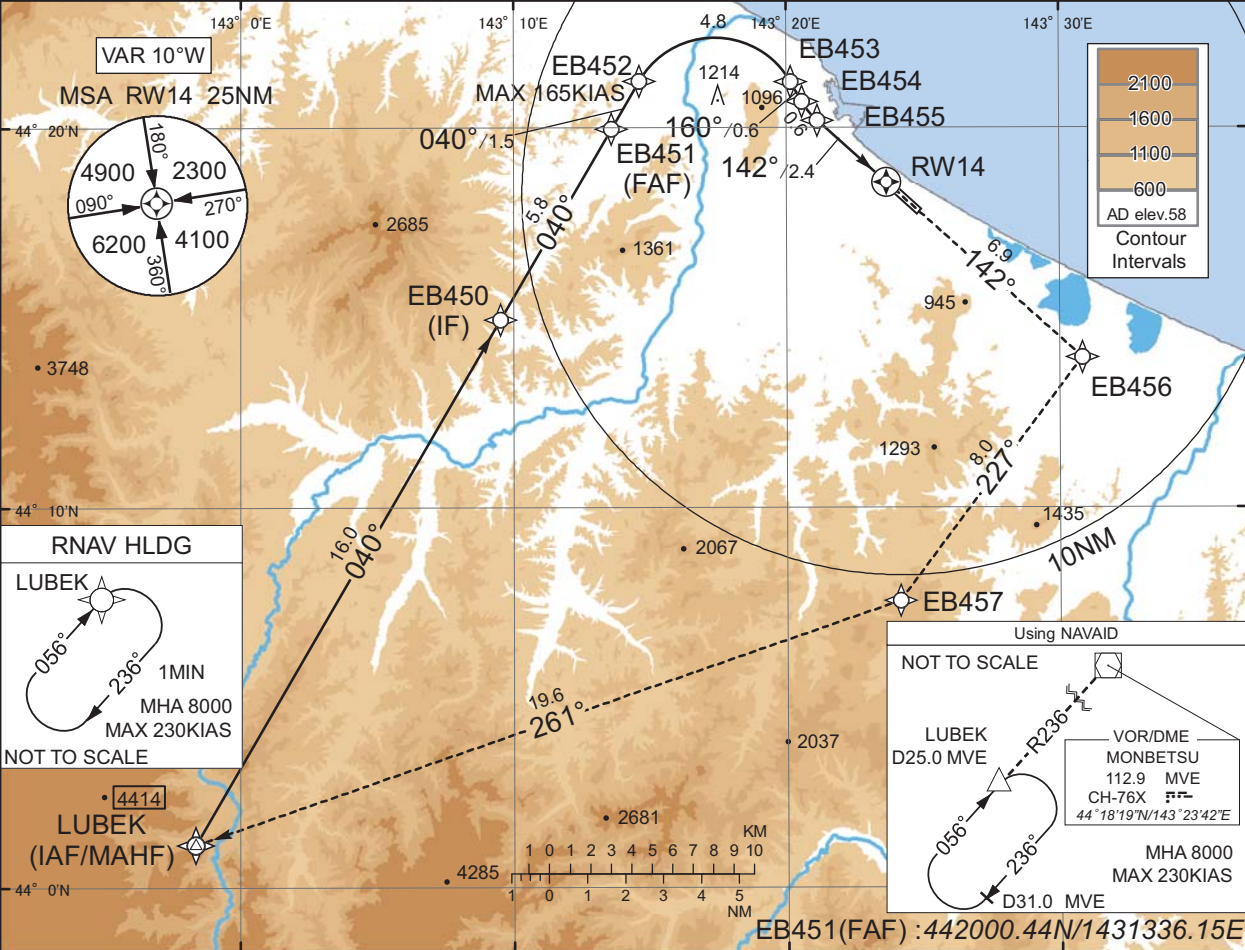
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RNP RWY14(AR)

TOKYO CONTROL 127.5 - 255.2 134.25 - 260.4	RNP AR RF required.	MONBETSU RADIO 118.15 AFIS provided by New Chitose Airport Office	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	THR elev. 80		AD elev. 58	
	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

CHANGE : ATC call sign and FREQ.

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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

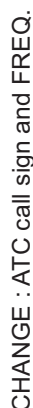
Waypoint Coordinates

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)



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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

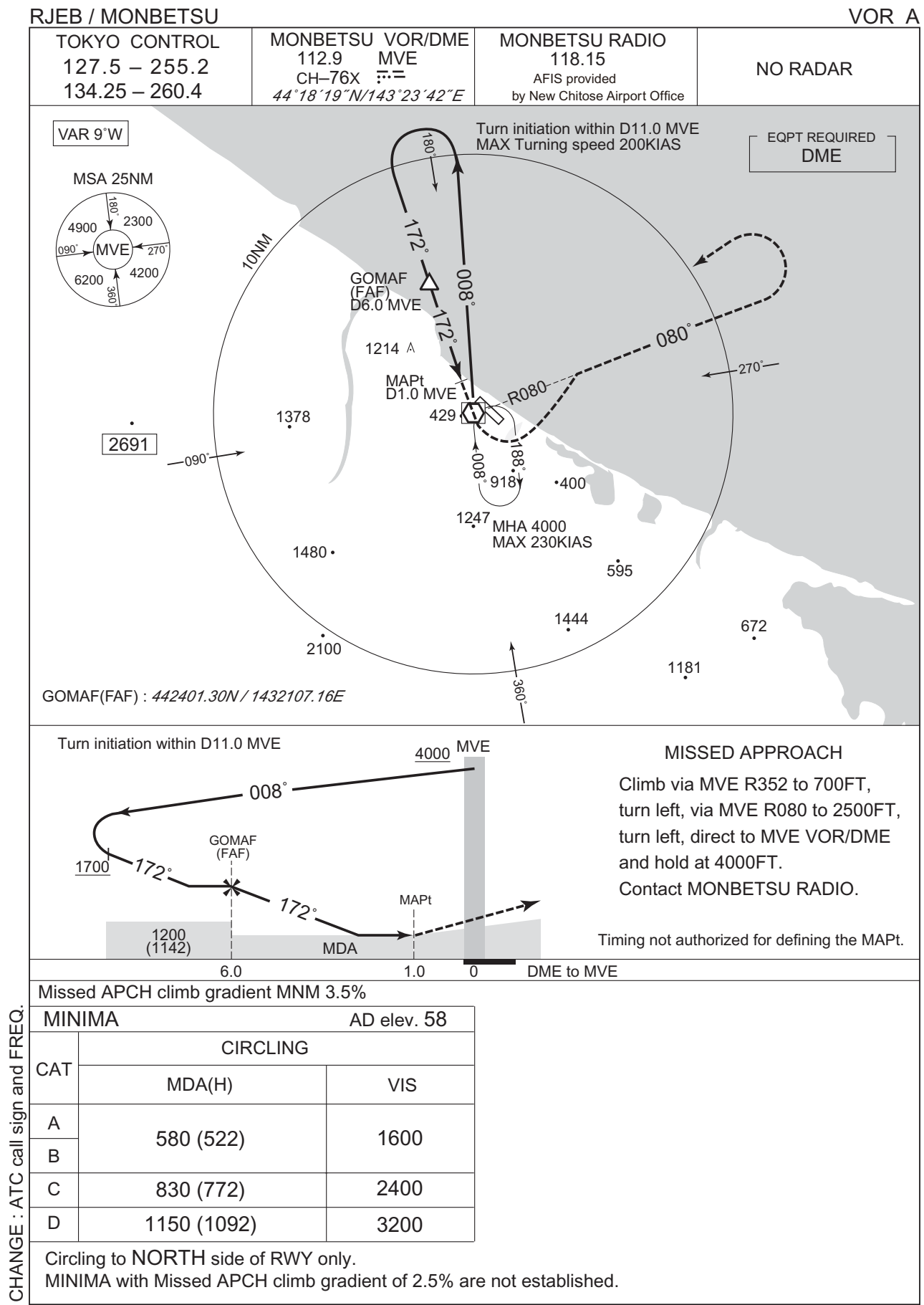
Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	RNP Value
Hold	LUBEK	056 (046.6)	-9.8	1.0 (-14000)	R	8000	FL140	-230 (-14000)	1.0

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.

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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.

