b) Luton

$s_p = \frac{0.2 \times 570}{2} = 57 \text{ mm/yr}^{-1}$

$s_b = \frac{6.1 \times 172.99}{2} = 8.62 \text{ mm/yr}^{-1}$

$s_{ET} = \sqrt{(57)^2 + (8.62)^2} = 57.65 \text{ mmyr}^{-1}$

$\mu_{ET} = \frac{57.65 \times 2}{397.51} = 0.21$

$P\{292.23 \text{ mmyr}^{-1} \leq \mu_{ET} \leq 512.79 \text{ mmyr}^{-1}\} = 0.95$

c) Epsrates

$s_p = \frac{0.1 \times 300}{2} = 15$

$s_b = \frac{0.1 \times 110.03}{2} = 5.50$

$s_{ET} = \sqrt{(15)^2 + (5.50)^2} = 15.98 \text{ mmyr}^{-1}$

$\mu_{ET} = \frac{2 \times 15.98}{189.97} = 0.17$

$P\{157.68 \text{ mmyr}^{-1} \leq \mu_{ET} \leq 222.26 \text{ mmyr}^{-1}\} = 0.95$