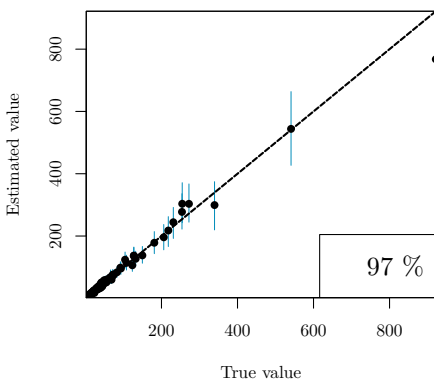
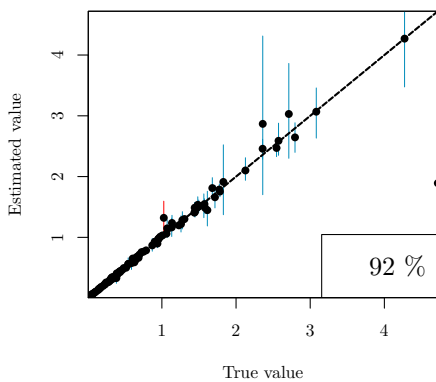
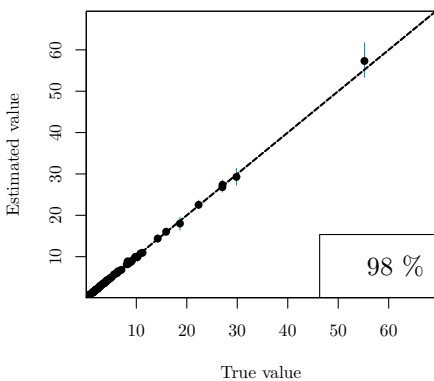
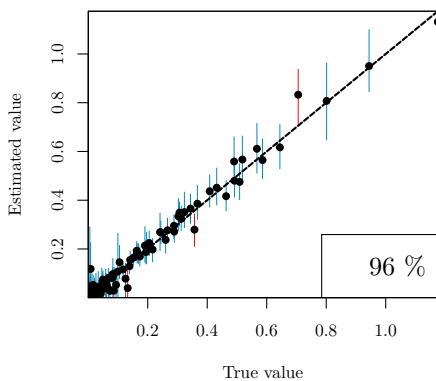
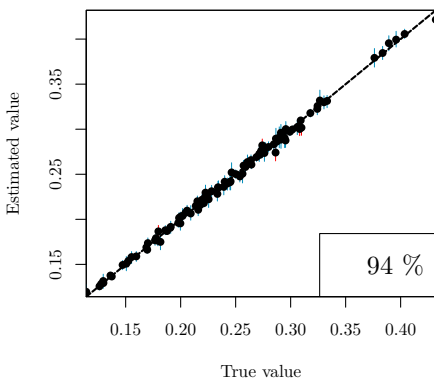


Birth rate  $\lambda$  $\Gamma$  $\kappa$  $\sigma$  $f_A$  $r_1$ 