# Figures

**Model convergence**



Figure S1.

**Bias – Length at 50% maternity**
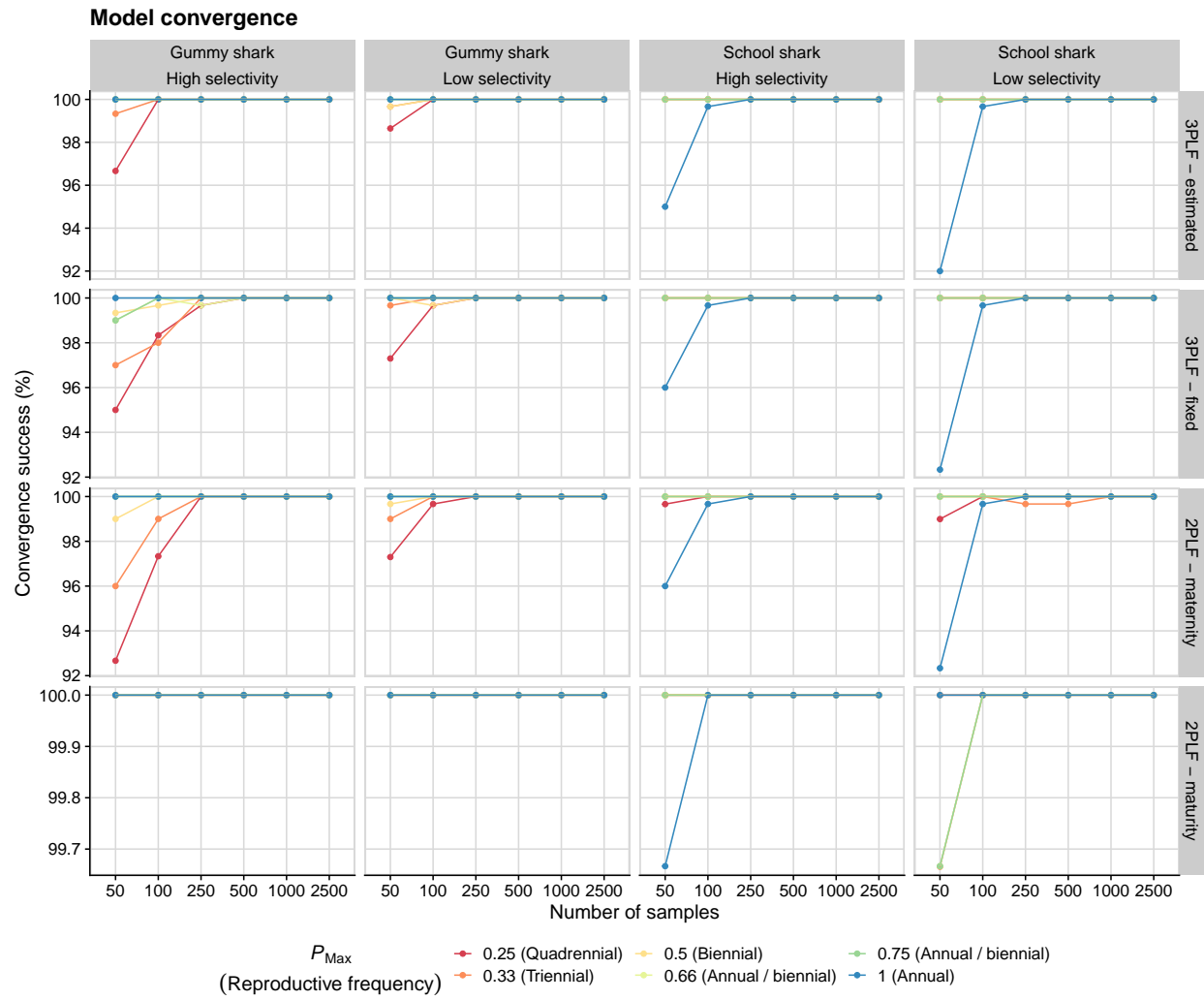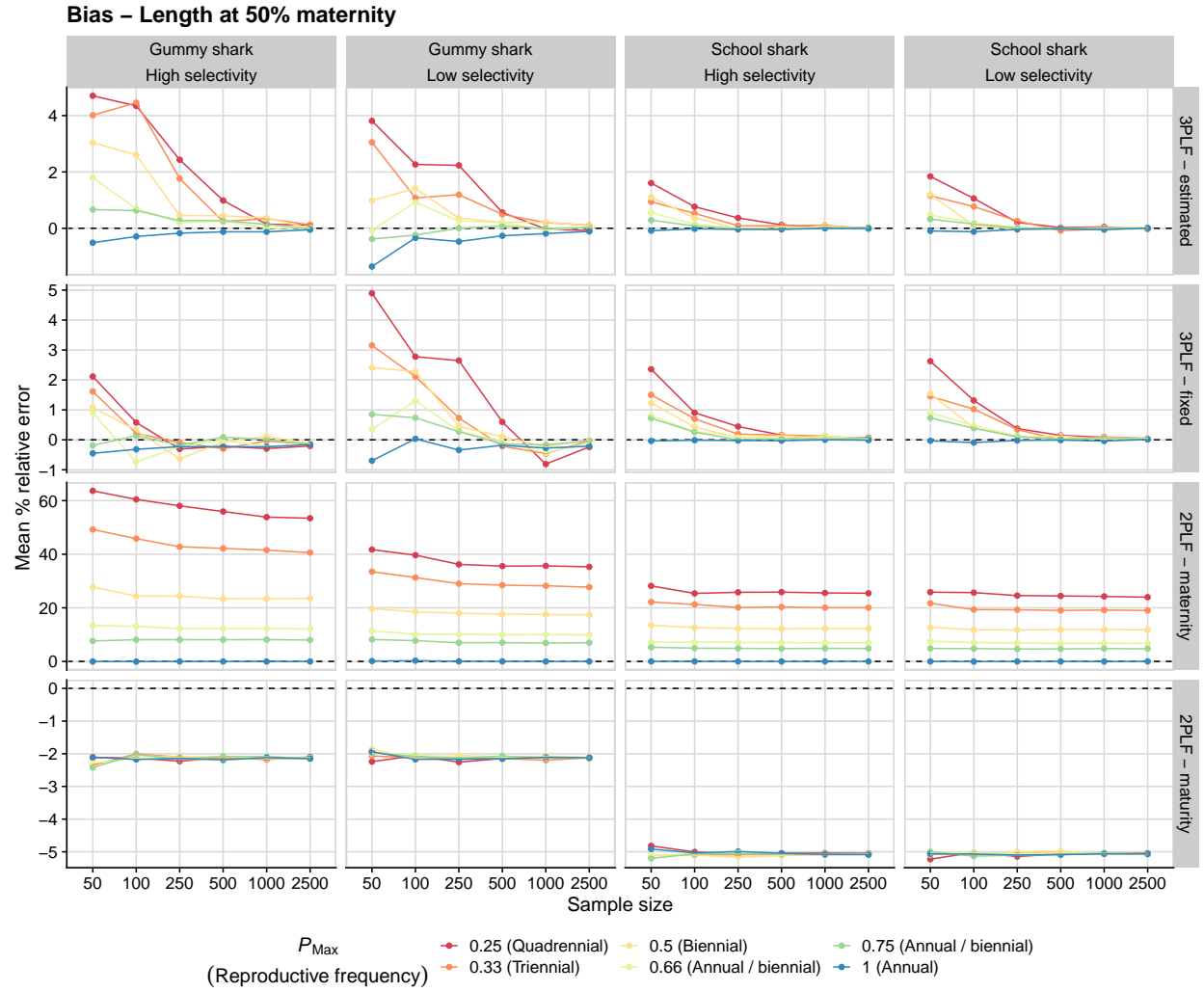


Figure S2.

Figure S3. Note 2PLF-maturity and 3PLF-fixed methods are identical

**Precision – Length at 50% maternity**



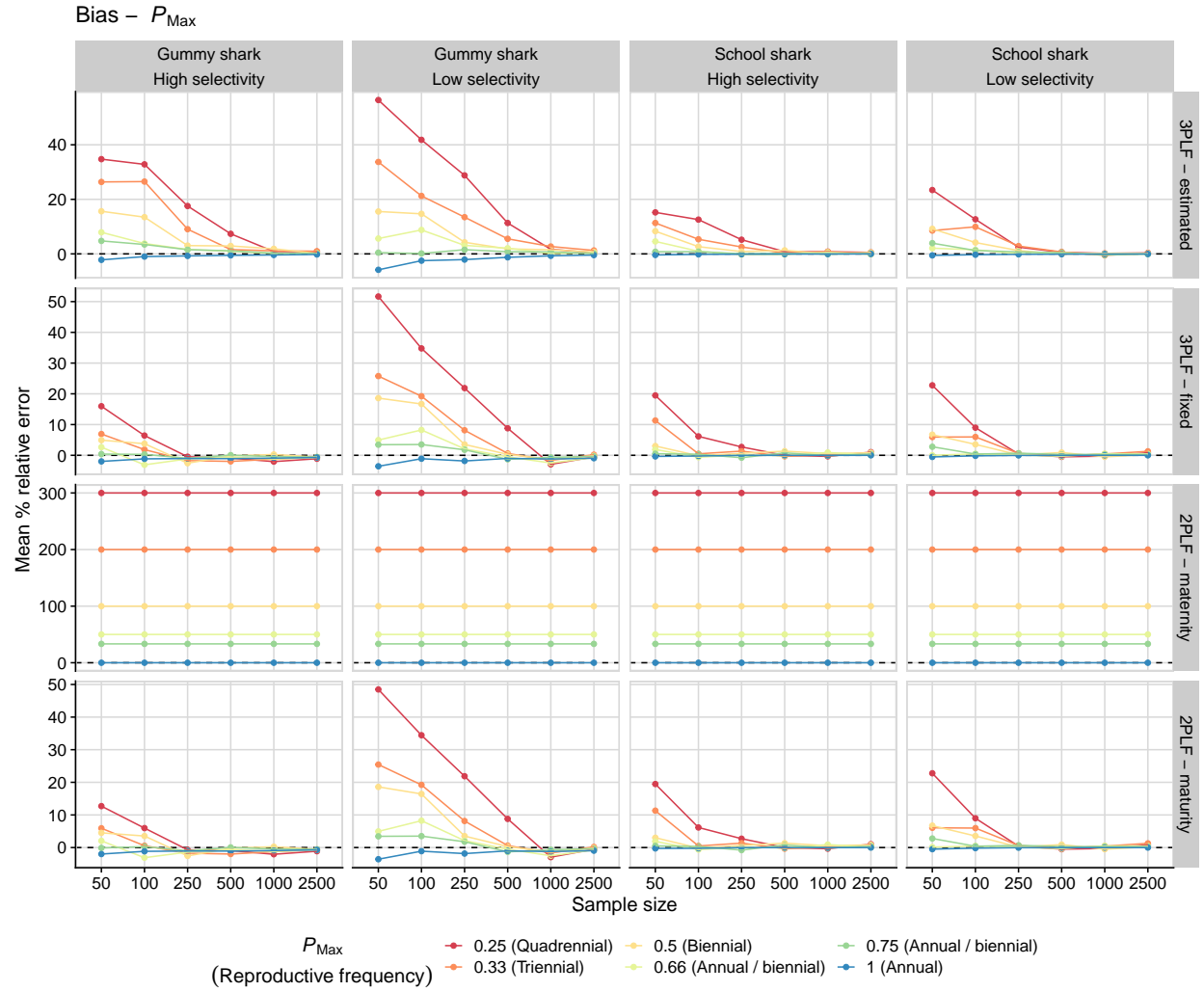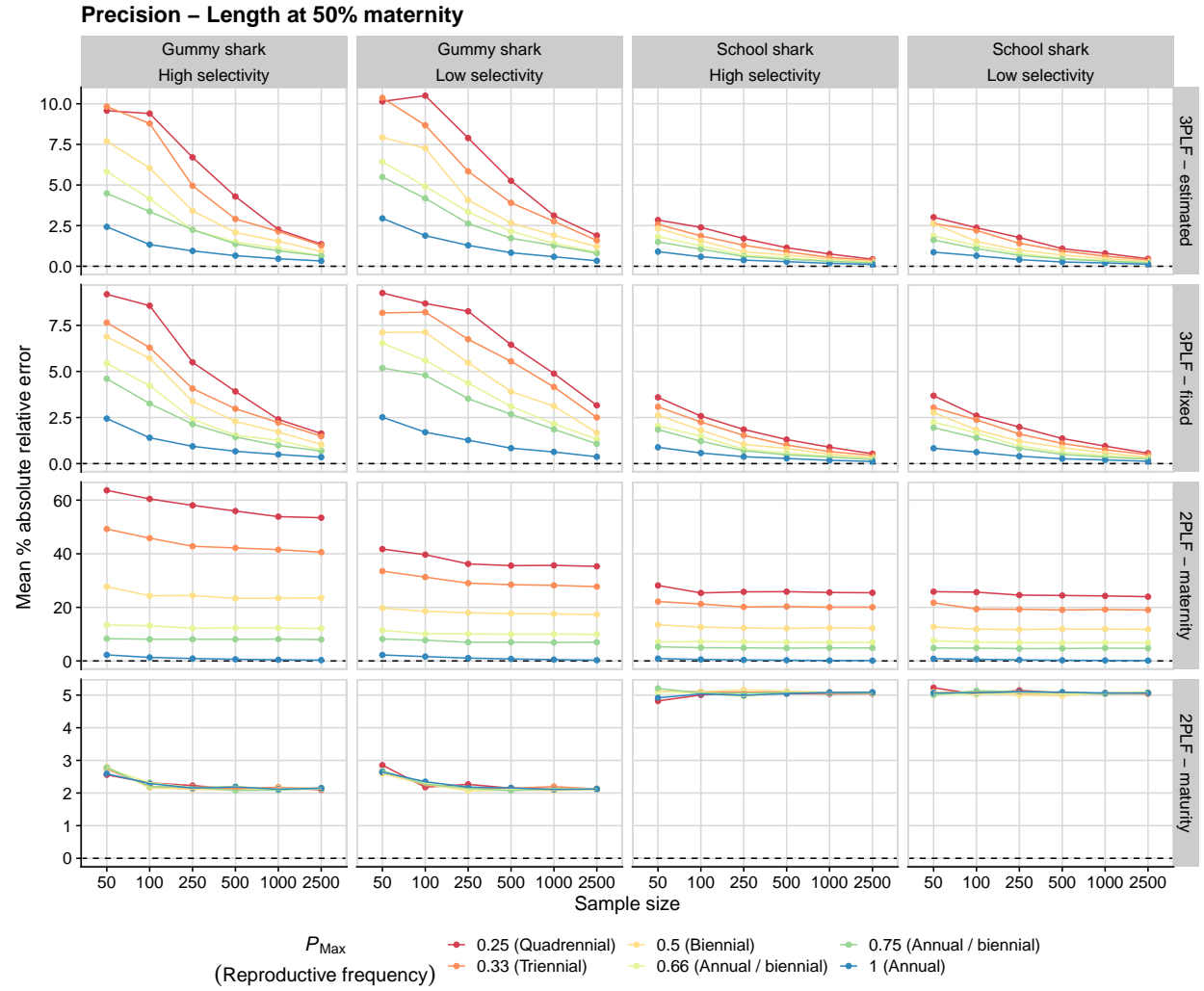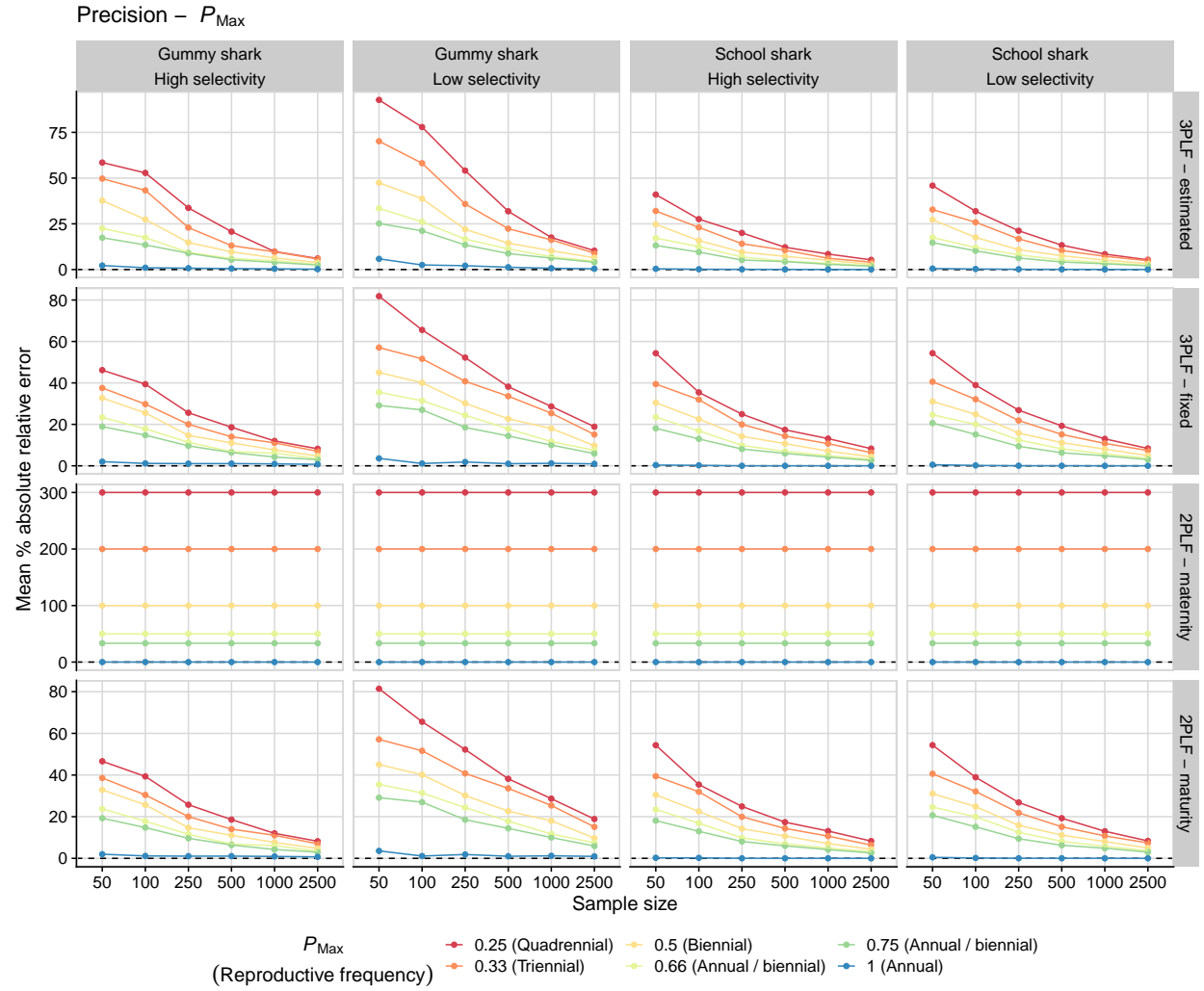Figure S4.

Figure S5.

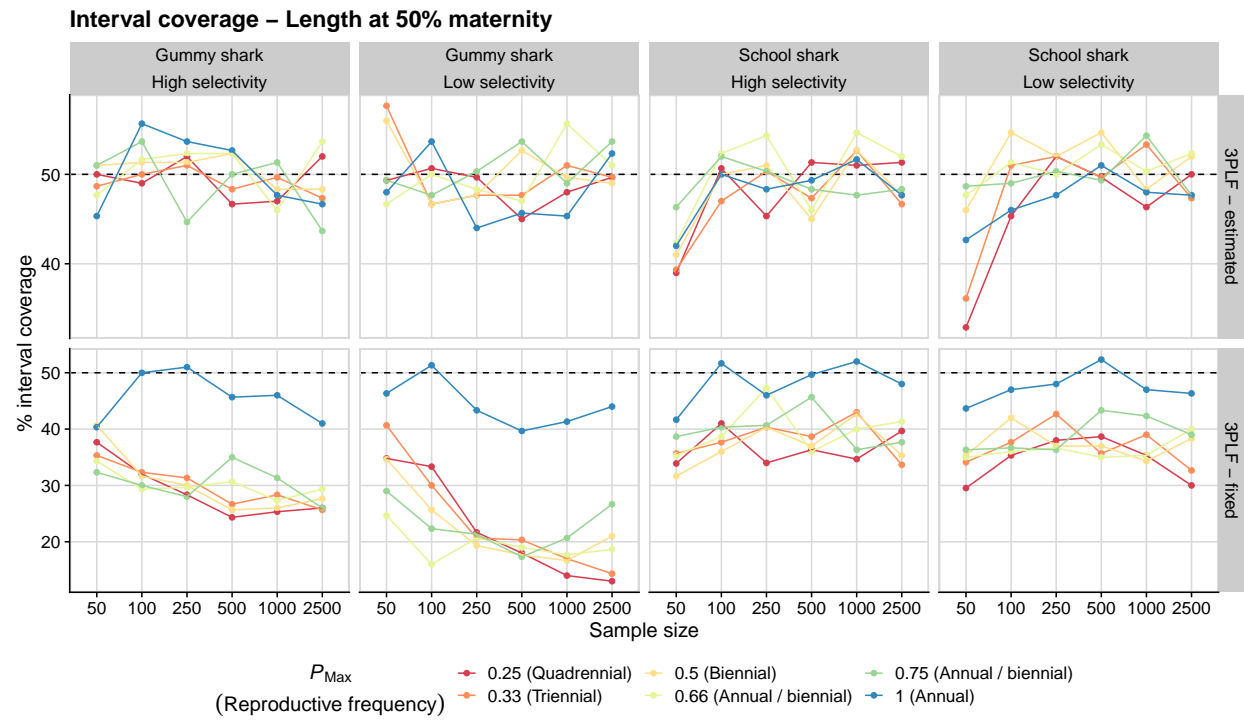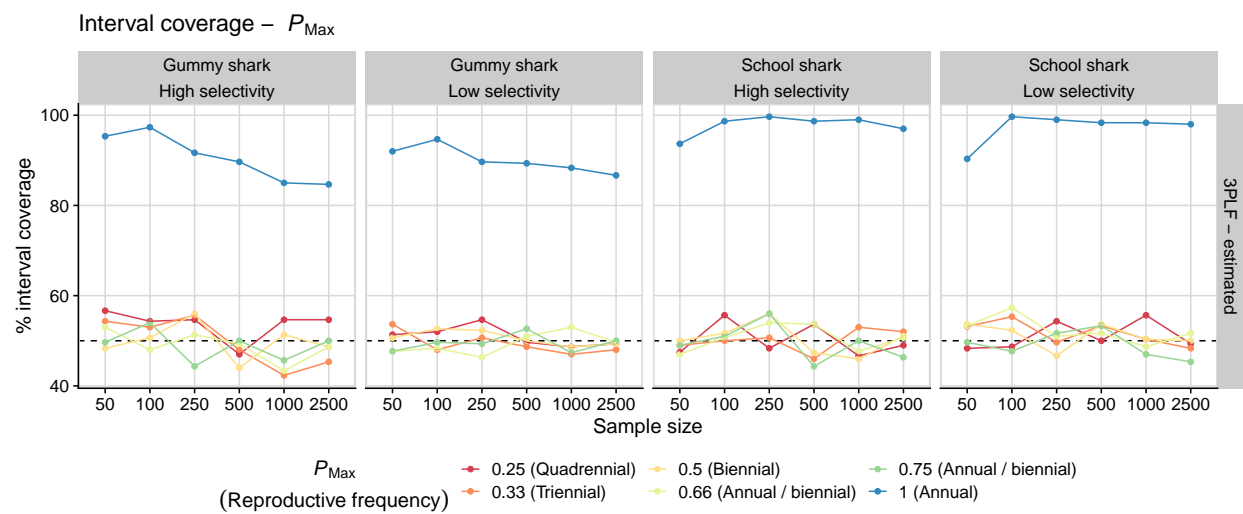**Interval coverage – Length at 50% maternity**
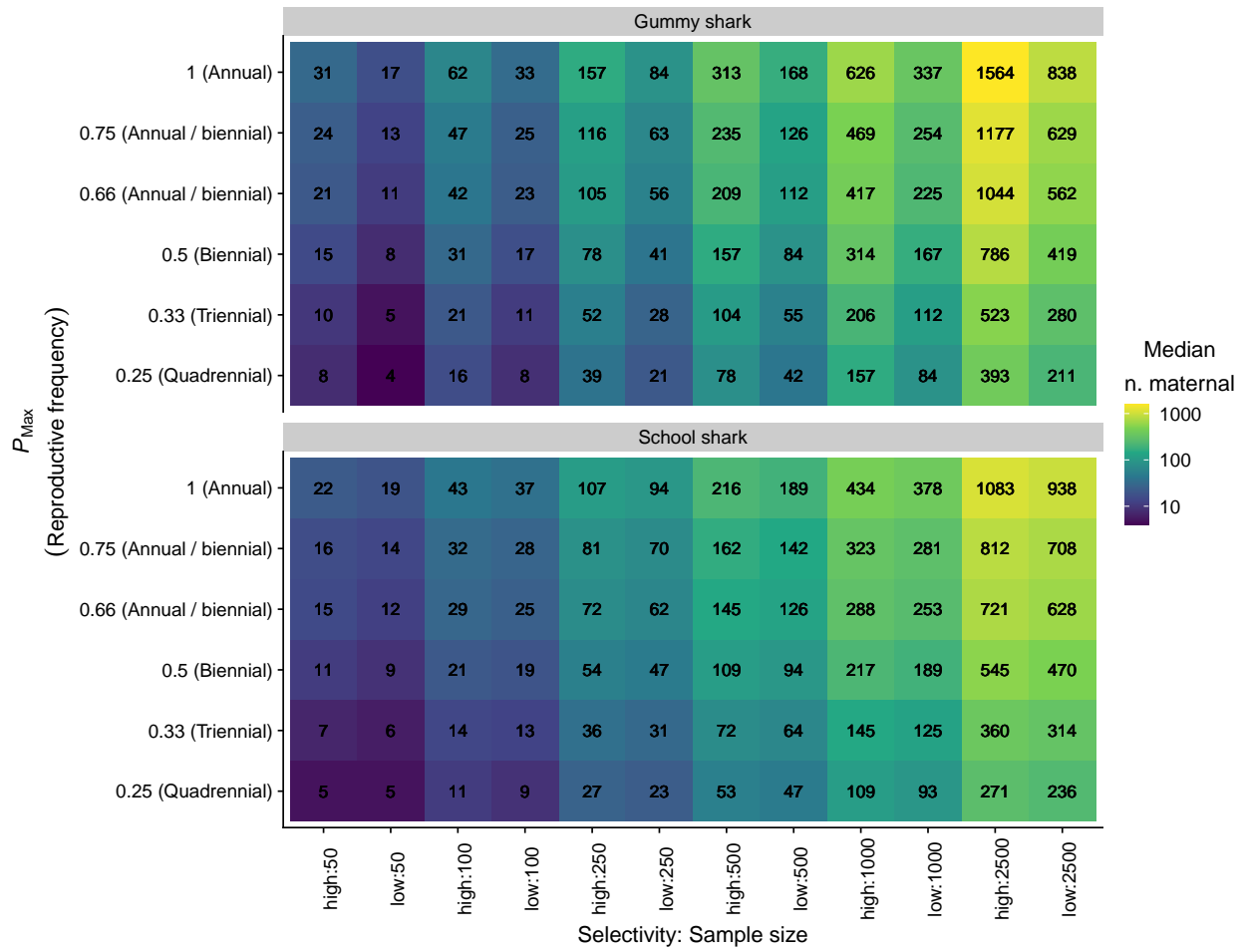
Figure S6.

Figure S7.

Figure S8. Median number of females in maternal condition in simulated data that were used to estimate maternity parameters subject to varying sample size, gear selectivity, reproductive frequency. 250 iterations were carried out for each simulation.
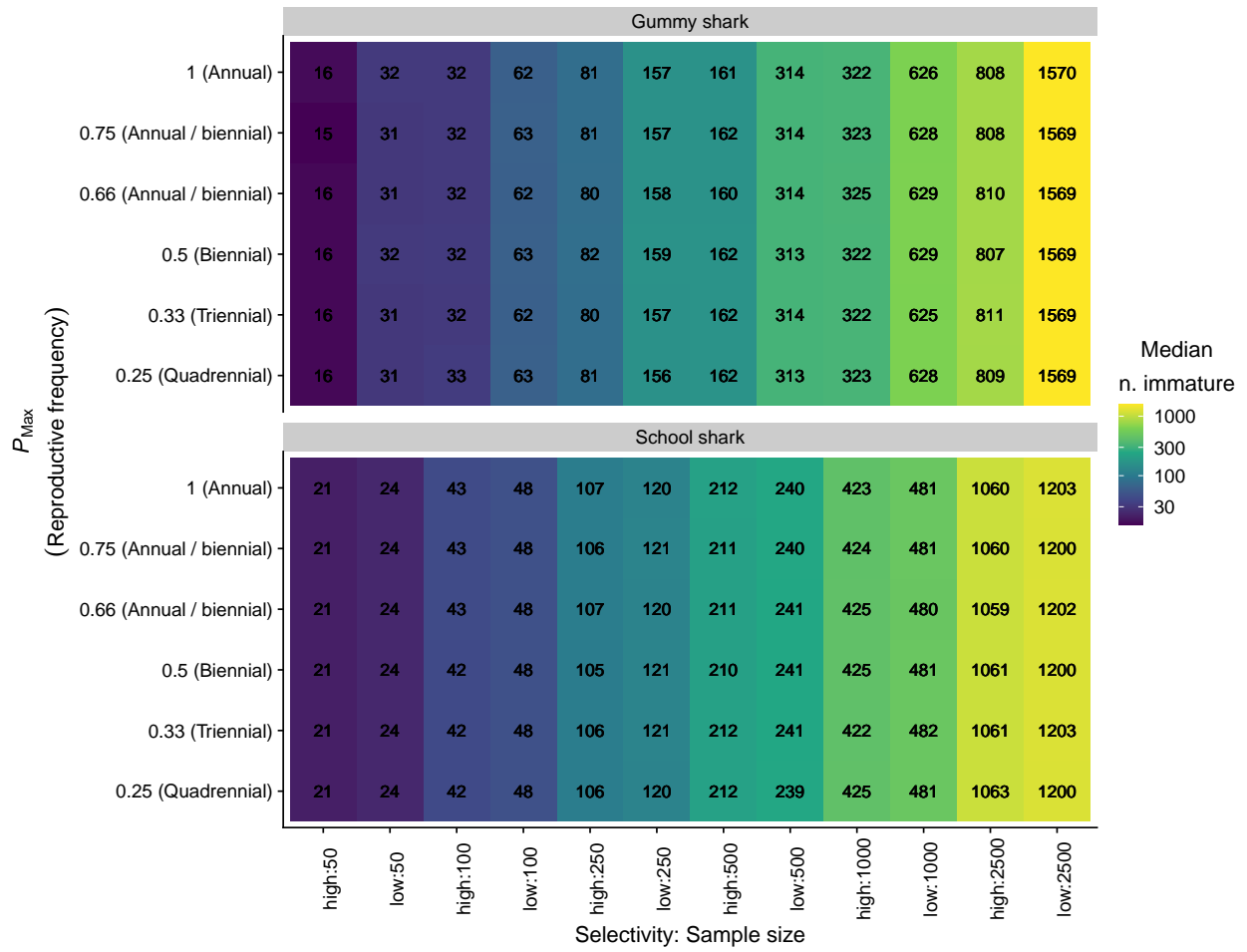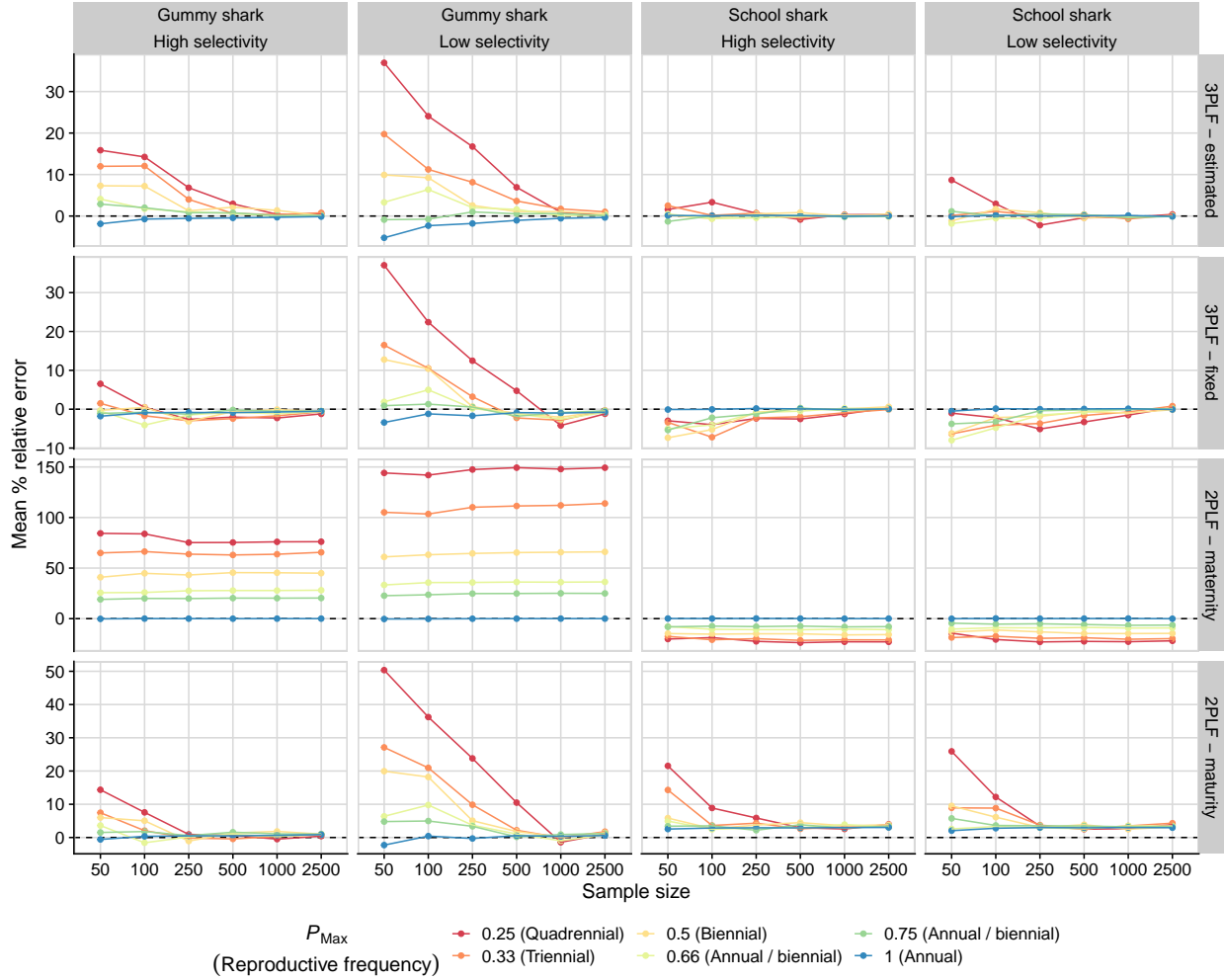
Figure S9. Median number of immature females in simulated data that were used to estimate maternity parameters subject to varying sample size, gear selectivity, reproductive frequency. 250 iterations were carried out for each simulation.

# Bias – Reproductive Output

**Precision – Reproductive Output**