Table 1: Comparison between the true total lake area in the simulated dataset against frequentist and Bayesian estimates. The true total is a point estimate while uncertainty is displayed via differences between the 95th and 5th quantile.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Q50 (mil km2) | Q5 (mil km2) | Q95 (mil km2) | Q95-Q5 |
| True (point estimate) | 3.278 | - | - | - |
| True (80% non-detect) | 3.205 | 3.205 | 3.205 | 673 |
| Frequentist | 3.274 | 3.274 | 3.274 | 14 |
| Bayesian | 3.199 | 3.158 | 3.273 | 115172 |