**Preliminary Exam Questions: Dr. Dinsmore**

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1. Most sampling strategies are comprised of two primary elements: an estimator and a sampling design. Together, these two elements can be used to attain a desirable balance between precision and bias. Focusing on bias, the three primary sources are statistical bias, selection bias, and measurement bias. Provide a definition and example(s) of each and then rank and justify these biases according to *your view* of the extent to which they have, or currently are, detracting from the quality of data guiding fisheries science. [2-3 pages]

* Statistical bias
  + define
  + extrapolate/condense as necessary
  + example(s)
* Selection Bias
  + define
  + extrapolate/condense as necessary
  + example(s)
* Measurement bias
  + define
  + extrapolate/condense as necessary
  + example(s)
* Ranks, based on the extent to which they detract from the quality of data in fish science, with justification
  + largest detraction
  + middle detraction
  + least detraction
* Concluding paragraph discussing my opinions, and further justification/examples as necessary