Annex 2: Terms of Reference for the Peer Review

Methodology for Sampling and Estimating Bycatch of the Hawaii Deep-Set Longline Fishery

1. Review the sampling design used to select trips for observer placement and determine if it is a preferred design for estimating bycatch considering constraints and reporting requirements.
2. Evaluate the point estimators and determine if they are good estimators given the sample design, observed frequency distribution of bycatch events, and constraints.
3. Evaluate the interval estimators and determine if they are good estimators given the sample design, observed frequency distribution of bycatch events, and constraints.
4. Evaluate estimators of total bycatch events resulting in a death or serious injury (DSI) classification and determine if they are good estimators given the sample design, observed frequency distribution of injury classifications (non-serious or DSI), and constraints.
5. Evaluate the subpopulation estimators being applied to estimate bycatch within a political geographical boundary and determine if they are good estimators given the sample design, reporting requirements under the MMPA, and constraints.
6. Suggest future research priorities to improve methods for estimating bycatch with increased efficiency given the current data structure. Suggest future research priorities for improving the sampling design for the purposes of estimating bycatch, with efficient use of sampling resources as a consideration.

Note – CIE reviewers typically address scientific subjects, hence ToRs usually do not involve CIE reviewers with regulatory and management issues unless this expertise is specifically requested in the SoW.

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