



Calculation Methodology for Representativeness of Observer Coverage (ERSWG Agenda Item 10)

1. Background

The CCSBT's Effectiveness of Seabird Mitigation Measures Technical Group (SMMTG, held in November 2014 in Tokyo) recommended that spatial-temporal representativeness is an important metric of observer program data and agreed on the method for calculating a measure of "representativeness".

Since 2019, the Secretariat has provided a representativeness score for observer coverage as part of its reporting to the Ecologically Related Species Working Group (ERSWG) and the Compliance Committee (CC).

2. Current calculation methodology of the representativeness

The SMMTG in 2014 recommended that % coverage be calculated as number of hooks observed per stratum divided by total fishing effort per stratum, and that representativeness should be evaluated using the calculated proportion of strata which have met the target level of observer coverage (paragraph 17 of the [SMMTG report](#)).

3. Recent discussions on the representativeness within the CCSBT

The calculated representativeness is provided through the following documents:

- (1) The Secretariat's paper "Summaries from the ERSWG Data Exchange" for the ERSWG meetings; and
- (2) The Secretariat's paper "[Annual Report on Members' implementation of ERS measures and performance with respect to ERS](#)" for the CC meetings¹.

At CC 18, queries were raised regarding the representativeness score, including whether there needs to be a minimum amount of effort in an area before it is included in the representativeness calculation. In addition, CC 18 requested that the ERSWG review the current methodology for calculating the representativeness of scientific observer coverage at the next ERSWG meeting (paragraphs 16 and 119 of the [CC18 report](#)).

4. Recommended actions by the ERSWG

Based on the request from the CC, the ERSWG is asked:

- (1) To review the current calculation methodology of the representativeness; and
- (2) If necessary, to recommend a revised calculation methodology for the Compliance Committee and the Extended Commission's consideration.

Prepared by the Secretariat

¹ Following paragraph 8 of [the Resolution to Align CCSBT's Ecologically Related Species \(ERS\) measures with those of other tuna RFMOs](#) (adopted in 2018) and paragraph 71 and 72 of the [CCSBT 25 report](#).