Core data elements – May 11, 2016

Table 1, comparing data collected by the SE Heaboat Survey, the SC for hire survey, and the proposed core variables for the charter reporting amendment.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Type | Headboat Existing | SC for hire Existing | PROPOSED CORE Variables | WHY CORE? |
| TRIP | Depart Date:Time | Trip Date | Start Date | Identification, link to possible observer report or bio sample report, or future set level detail reports. End location designates landing point, may be important if regional allocations are implemented, and validation |
|   | Start Time  | Start Time |
| Return Date:Time |  | End Date |
|  |  | End Time |
|   | Start Location | Start Location |
|   | Trip Number  | End Location |
| ID | Vessel Name |  | Vessel ID (name, Lic#) |
| Captain Name | License number | Captain ID (name, Lic#) |
| Effort | Number of Anglers | Number Anglers | Number of fishermen | Effort, reg compliance evaluation, S-E value |
| Number of Paying Passengers |  |  |
| Number of Crew |  | Number of crew |
|  | Method | Method (general - troll, bottom, spear etc) | ID trips for CPUE, reg evals etc |
|  | hours fished | Hours fished | Effective effort |
| DEPTH | Minimum depth fished | min depth  |  | Important to discard mortality.  |
| Maximum depth fished | max depth |  |
| Primary depth fished |  | Primary (or range) |
| Location | Latitude/Longitude Degrees | 10x10 | Location, 10x10 minimum | Many uses for the “where” info |
| Latitude/Longitude Minutes |  |  |  |
|  | Locale |  |  |
|  | Reef |  |  |
| Catch | Species caught | Species | Species | For catch report |
| Number kept | number kep | Number kept (by spp) | Catch report |
| Number released | # rel Live  | # released (by spp) | # released |
|   | # rel dead |  |  |
|   | target species | Target, as categories | e.g., FMP |
| Econ | Fuel used (gallons) |  |  |  |
| Price per gallon (estimate) |  |  |  |

Table 2 provides further details on the core variables.

|  |  |
| --- | --- |
| Start Date | Higher detail on when vessels are out, when return, and where they operate from necessary for validation, esp if combined with info on home berth/location where appropriate. Also necessary for managing bio sample effort and linking trips to bio samples, and identifying days with multiple trips.  |
| Start Time |
| End Date |
| End Time |
| Start Location |
| End Location |
| Vessel ID (name, Lic#) | General identifier info, could be part of a log in profile.For validation, staff could visit a berth location and note if vessel is in or out.  |
| Captain ID (name, Lic#) |
| Home port/berth/location |
| Number of fishermen | Effective fishing effort and useful for compliance evaluations and SE evaluation. |
| Number of crew |
| Hours fished |
| Method  | Suggested drop down menus with general categories, such as trolling or spear or lines/bottom drop |
| Target, as categories | Drop down menu of general categories. By-species detail is often of limited value, whereas this combined with method could enable distinguishing a dolphin trolling trip for a grouper bottom fishing trip. This will be useful for characterizing the fishery, effort, and CPUE. |
| Location, 10x10 minimum | Could be useful, but aware that it will be an approximation for a multi-stop trip, especially as the resolution decreases. |
| Depth (primary or Range) | Will be an approximation; generally useful for discard mortality rate estimation although ‘set’ level info is preferred. |
| Species | Need to know the catch. Discussion has been on discards, whether to collect total (as in headboat) or by fate (as done by SC, MRIP). Given the many variables that affect discard mortality, it may be best to collect general info from all trips and then supplement with an add on or sub sample to collect detailed info, by set and even individual fish, for an accurate discard characterization. |
|  |
| Number kept (by spp) |
| # released (by spp) |
|  |  |

Other Considerations

* Split Trip Reporting: Allow an angler to provide multiple reports on effort, methods, targets and catch for one overall trip. Requested by some during public hearings, based on the example of a trip that primarily trolls for dolphin/tuna and also bottom fishes on the way out
* Use of descenders and perhaps venting: Could be used to better define discard mortality. Should consider whether it will be useful reported on every trip or if it should be part of a discard supplement.

**NOTE: A suggestion was made at the Snapper-Grouper AP to collect information on descender device usage.**

* Depth: Depth is important to discard mortality rates, but reporting at the trip level is not generally considered useful to truly refine rates. A major issue is that vessels can cover a range of depths in a trip, and there is no way on a trip report to know which species or how much of the catch is taken at the reported depth. It is possible that information equivalent to a ‘primary’ depth fished could be derived from the reported location. One option considered is having depth range categories in a drop down menu, with ranges perhaps based on barotrauma (e.g., under 100, 100 to 150, beyond 150). Will still suffer in areas where the bottom drops sharp and fishermen can cover the range in a trip.