

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#)	Effort, reg compliance evaluation, S-E value
	Captain Name	License number	Captain ID (name, Lic#)	
Effort	Number of Anglers	Number Anglers	Number of fishermen	ID trips for CPUE, reg evals etc
	Number of Paying Passengers			
	Number of Crew		Number of crew	Effective effort
		Method	Method (general - troll, bottom, spear etc)	
	hours fished	Hours fished		
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	Effective fishing effort and useful for compliance evaluations and SE evaluation.
Number of fishermen	
Number of crew	
Hours fished	Suggested drop down menus with general categories, such as trolling or spear or lines/bottom drop 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. Could be useful, but aware that it will be an approximation for a multi-stop trip, especially as the resolution decreases.
Method	
Target, as categories	
Location, 10x10 minimum	Will be an approximation; generally useful for discard mortality rate estimation although 'set' level info is preferred.
Depth (primary or Range)	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.
Species	
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.