Core data elements – June 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	
			End Location	
		Trip Number		
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	Latitude/Longitude Degrees	Many uses for the "where" info. Council preference is to mirror the HB reporting approach.
	Latitude/Longitude Minutes		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)		Fuel used (gallons)	
	Price per gallon (estimate)		Price per gallon (estimate)	
			Charter Fee	

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)	