

Projects under EM Cooperative Research Plan

updated April 27, 2015

Type	Project			Who		Time			Notes/tasking from April 27 2015 meeting
	Short title	Description	Key Outcomes	Project Lead	Other Team members	Discuss at July meeting	Need for analysis	Due date	
Written products	2016 Proposed EM pool, deployment model, vessel obligations, service ports, dockside monitoring	For 2016, develop a methods summary of the key elements of the preferred monitoring option and unresolved decision points. Key elements include vessel qualifying criteria, data requirements for catch estimation, vessel operator responsibilities, EM data collection specifications, and integration with other tools.	Discussion document summarizing the 2016 EM approach and decision points for an EM configuration that meets the Council's goal for estimating catch.	Diana Evans	Howard McElderry, Dan Falvey, David Polushkin, Malcolm Milne, Farron Wallace, Jennifer Mondragon, Brian Lynch, Dave Colpo	X	X	1-May	DE to revise HM/DF workproduct with 4/27 discussions FW to work on additional deployment options (around first trip)
	Fishery Demographics	Summarize the fishery demographics - number of vessels, gear used, landing ports, target fishery. Also, summary of effort (trips, length, hauls per day, length of sets), vessel configurations (side/stern haul, shelter deck or open).	Summary paper that describes demographics of the fixed gear fleet in terms of effort, retained and discarded catch by catch area and/or port.	Diana Evans	Mike Fey, Howard McElderry	X	X	27-Jul	Need demographics data for the 2016 vessels. 170 conditional release vessels, plus any others that have opted in by 7/25
	Catch Estimation	List potential catch estimation procedures for EM data for a presumed strata.	Discussion paper that describes the trade offs and assumptions of various catch estimation procedures for expanding catch to the fishery level.	Jennifer Mondragon		X	X	27-Jul	JM to create a roadmap for considering how 2016/ 2017 data gets used
	Weight	There are a number of potential methods to derive weight for piece counts. Each of these methods will have an accompanying list of assumptions and data collections that will be evaluated.	Summary paper that describes potential ways to derive weight estimates for piece counts.	Farron Wallace	Jennifer Mondragon, Dave Colpo, Bruce Leaman, Bernie Burkholder	X	X	27-Jul	FW/JM to continue work on outline from Nov 2014
	Catch Composition	Summarize the catch composition and disposition	Tables describing the catch composition in each fixed gear target fishery (halibut, sablefish, Pacific cod), and which species are discarded.	Jennifer Mondragon	Mike Fey, Howard McElderry	X	X	27-Jul	JM to prepare for pot vessels Also discuss wrt rockfish retention
	Alternatives	Refine the 'purpose and need' and alternatives document for the Council analysis	Discussion draft of 'purpose and need' and alternatives to be analyzed for a Council amendment package, and how the elements of the strawmen mesh with the amendment analysis.	Diana Evans	Jennifer Mondragon, Chris Rilling		X	early 2016	

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Written products	Cost Framework	How will costs be analyzed with respect to EM decision points, what is the framework that will be used in the analysis? What are major cost centers in the program, and how does that affect design or decisionmaking?	Discussion paper framing the range of costs that might be associated with different decisions in the suite of alternatives, and how fieldwork or other methods will be employed to inform those costs.	Sam Cunningham	Diana Evans, Howard McElderry, Dan Falvey, Dave Colpo, Mike Fey; Tom Meyer for Section 313	X	X	27-Jul	FW to work with HM, DC, SC to budget costs for 2016 (installs, ports, hardware units, overhead)
	Seabird Handling	Seabird procedures	Outline 1) the handling procedures that will be required for seabird interactions when operating EM, and 2) if any permits will be required of EM vessels	Chris Rilling	Kim Rivera, Nathan Lagerwey, Dan Falvey, Howard McElderry, David Polushkin, Don Lane	X	X	27-Jul	HM to update on status of seabird cameras preventing auto-shutoff of control boxes when engine shuts off.
	Datasheet data elements	Discussion of what self reported data elements need to be collected to support EM catch estimation	Outline of datasheet fields & how those compare to current IPHC and NMFS logbook data elements	Jennifer Mondragon	Dave Colpo, Malcolm Milne, Heather Gilroy, Farron Wallace	X	X	27-Jul	FW to prepare discussion paper on paper vs elogs for use in 2016
	Data review protocol	Identify which data elements should be extracted from the imagery obtained under the various field studies, and the review processes that should be followed.	Continue to refine the video data review protocol procedure document	Chris Rilling	D Colpo, H McElderry, J Mondragon, F Wallace, S Buckelew, D Falvey, H Gilroy		X		subcommittee to meet and discuss changes for 2015
	Video Review Tradeoffs	Analysis of how much video review is needed	Summary paper describing the tradeoffs of reviewing video for all fish, or only discards; subsampling; etc.	NMFS	Dave Colpo				longer term

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Field Testing/ research	Operational testing	Field program to evaluate program operational infrastructure in Sitka, Homer and Seward ports, continue to socialize EM technology with the fleet, and test aspects of the EM design options. This work will be a collaborative effort involving service providers, the fishing industry, NMFS and PSMFC.	The key outcomes of this program include EM data sets, dockside monitoring data, and a technical report, jointly prepared by PSMFC and service providers.	Howard McElderry	Dan Falvey, David Polushkin, Malcolm Milne, Farron Wallace, Jennifer Mondragon, Brian Lynch, Dave Colpo, Sam Cunningham	x	x	27-Jul	HM - update on ops testing PSMFC report on video review
	Research and development testing	The research is intended to provide field-tested methods that allow collection of quantifiable image-based data from pot and longline fisheries that can be used to estimate species-specific catch and at-sea discard amounts.	A research document that will describe results of testing: differences in count and species composition data between EM (single and stereo cameras) in a standard configuration at the rail and an at-sea biologist; ability to derive length from stereo camera.	Farron Wallace		x	x	27-Jul	FW - update on R&D testing PSMFC report on video review
	Halibut DMR research	Investigate the relationship between release methods and discard mortality rates. IPHC interested in pursuing this for fixed gear as well as trawl vessels.	Research study that will allow IPHC to assign discard mortality rates based on a release method, rather than based on injury codes.	Bruce Leaman	Dan Falvey, Bernie Burkholder				longer term. Looking at 2 streams of research, tagging and non-tagging. Working out issues.