

Table 1.4-3. Goals and Current, Short, Long-term Research Implementation

	Current	Short-Term	Long-Term		
			Phase 1	Phase 2	Phase 3
Goals	<ul style="list-style-type: none"> • Increase recreational fishery dependent sampling • Coordinate activities of various groups collecting fishery independent data 	<ul style="list-style-type: none"> • Improve fishery dependent sampling data • Implement and coordinate fishery independent studies • Incorporate environmental data 	<ul style="list-style-type: none"> • Continue to improve fishery dependent data • Continue independent studies • Incorporate other types of data 	<ul style="list-style-type: none"> • Continue monitoring • Incorporate environmental and remote sensing information into models • Begin developing multi-component fishery tools • Refine/re-evaluate techniques 	<ul style="list-style-type: none"> • Continue monitoring • Implement use of multi-component fishery tools
Fishery Dependent	<ul style="list-style-type: none"> • Enhance MRFSS sampling • Evaluate current data sampling and existing databases • Develop recreational and commercial short-term and long-term plans • Plan collaborative field and laboratory studies to gather EFI on the nearshore fishery 	<ul style="list-style-type: none"> • Coordinate and improve logbook system • Refine and coordinate statewide sampling programs • Implement short-term sampling plans (e.g. develop and implement pilot study for skiffs) • Evaluate improved CPFV sampling • Implement collaborative field and laboratory studies to gather EFI 	<ul style="list-style-type: none"> • Implement long-term sampling plans • Evaluate skiff study 	<p>Refine/re-evaluate techniques</p> <p>↑</p> <p>↑</p> <p>↑</p>	<p>↑</p>

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Fishery Independent	<ul style="list-style-type: none"> Coordinate activities of various groups through Nearshore Cooperative Monitoring Group Develop ROV/SCUBA protocols Develop tagging studies Identify ways to incorporate novel survey data into management Plan database to utilize a spatial and temporal framework Plan collaborative field and laboratory studies to gather EFI on the nearshore fishery Develop fisherman/academic/agency collaborative studies 	<ul style="list-style-type: none"> Implement coordinated ROV/SCUBA and tagging studies Incorporate MPA network into survey Begin incorporating other survey data into management Develop and update database Implement collaborative field and laboratory studies to gather EFI Implement fisherman/academic/agency collaborative studies 	<ul style="list-style-type: none"> Expand survey data 	<p>Refine/re-evaluate techniques</p>	

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Environmental/Remote Sensing	<ul style="list-style-type: none"> Consolidate and catalog in-house and Department-associated habitat and environmental data sources High-resolution, geo-referenced mapping of nearshore habitat 	<ul style="list-style-type: none"> Identify additional data sources Design database on a spatial and temporal framework Begin incorporating environmental data Investigate technologies for incorporation satellite information 	<ul style="list-style-type: none"> Make environmental data available for fishery managers Develop technologies for incorporating satellite information 	<ul style="list-style-type: none"> Make environmental data and remote sensing data available for fishery managers Refine/re-evaluate techniques 	
Socio-economic Studies	<ul style="list-style-type: none"> Identify needed socio-economic studies Identify collaborative approaches Plan collaborative field studies to gather EFI on the nearshore fishery 	<ul style="list-style-type: none"> Develop RFP/IFB and bid calendar for socio-economic (SE) surveys Advertise for bids 	<ul style="list-style-type: none"> Review and evaluate bid packs Select successful bid 	<ul style="list-style-type: none"> Refine/re-evaluate techniques Refine tech approach with successful bidder 	<ul style="list-style-type: none"> Collect SE survey information Analyze SE information, in concert with other FD/FI information Develop demand functions for discrete user-groups
Modeling-Including Ecosystem Models	<ul style="list-style-type: none"> Investigate use of models 	<ul style="list-style-type: none"> Expand data assimilation to provide inputs for models 	<ul style="list-style-type: none"> Develop single-species models using new inputs 	<ul style="list-style-type: none"> Integrate fisheries environmental/satellite data, etc. into models 	<ul style="list-style-type: none"> Develop ecosystem models
Fisheries Management Strategies	Developed using fishery dependent data	Developed using fishery dependent data and some survey, fishery independent, and environmental data	Developed using fishery dependent, survey, and environmental data and some fishery independent data	Developed using fishery independent and dependent data, environmental data, some satellite data and some model inputs	Developed using a multi-component approach on a spatial and temporal framework