## **Scallop Plan Team Research Priorities**

141	Estimate scallop stock abundance
-	Status: No Action
	Estimate scallop stock abundance in un-surveyed areas using fishery independent methods including computerized image analysis of current camera sled data.
151	Acquire basic life history information (e.g., natural mortality, growth, size at maturity) for data-poor stocks.
	Status: Partially Underway
	Acquire basic life history information needed for stock assessment, PSC, and bycatch management of data-poor stocks, such as scallops, sharks, skates, sculpins, octopus, grenadiers, squid, and blue king crab (Bering Sea), golden king crabs (Aleutian Islands), and red king crab (Norton Sound). Specifically, information is needed on natural mortality, growth, size at maturity, and other basic indicators of stock production/productivity). Source/sink dynamics for scallop stocks is critical to understanding stock structure [note highest overall priority for assessment]
163	Expanded studies to identify stock and management boundaries
	Status: Underway
	To identify stock boundaries, expanded studies are needed in the areas of genetics, mark-recapture, reproductive biology, larval distribution, and advection. Such boundaries are to be evaluated so that consequences of management and risks are clear. Verify stock structure and source/sink dynamics including physical oceanographic, genetic and life-history studies.[Note refer to 151 as well]
166	Develop age-structured models for scallop assessment
	Status: Partially Underway
	Age structured models for scallop are needed to increase understanding of population dynamics and harvestable surpluses.
154	Conduct multivariate analysis of bycatch data from the scallop observer program
	Status: Completed
	Conduct multivariate analysis of bycatch data from the scallop observer program (haul composition data) and camera sled data.
316	Ocean Acidification and Scallops: monitoring water quality
	Status: No Action
-	Seasonal water quality monitoring in known scallop areas
317	Effects of Ocean Acidification on Scallops
	Status: No Action
	Studies to understand the mineralization of scallop shells through life cycle and across spatial variability
106	Improve discard mortality rate estimates for scallop
	Status: Partially Underway
	Field studies estimating Alaskan scallop discard mortality: relationship between capture, release condition and survival of scallops

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