

FISH PROJECT
(Fisheries Internships and Student Help)

2016 Potential Project Descriptions

The following projects have been identified by Council Staff as potential FISH Project activities for interns. One of these projects may be assigned to a student intern, pending the student's interest and availability of a mentor. These project descriptions and scope of work will be developed further upon the selection of an intern.

- *Essential Fish Habitat and Mapping Assistance:* Conduct a literature review of adverse impacts to essential fish habitat from offshore development activities to update EFH descriptions; Develop a geodatabase and map for community-based management plans; Conduct spatial trends analysis of non-confidential commercial fishing effort data (*knowledge of GIS/completion of one GIS class required)
- *Social and Economic Impact on Fisheries:* Assist staff with the review of available socio-economic information for the Western Pacific region; Develop potential human dimension projects dealing with social and economic impacts on fisheries; Conduct analysis of data; Assist in the development and completion of annual report modules.
- *Pelagic and International Fisheries:* Document the influence the WPRFMC has had on the Western and Central Pacific Fisheries Commission; Develop a listing of management measures and the year it was approved/adopted; Compare and contrast the activities between the Council and the Commission; Develop outreach materials (e.g. brochures, handouts) for Council programs.
- *Community Resource Monitoring Toolkit:* Conduct a review of available marine resource monitoring techniques and methods and determine which are most suitable for community use; Work with community organizations to document the types of questions that communities have in monitoring their resources; Develop a pathway for communities to use for determining what, where, and how they will monitor their resources (to include identifying partners and potential management obstacles).
- *Climate Change Effects on Fishery Ecosystems:* Compile existing summaries/reports of work already undertaken to a) build stock assessment models that consider potential effect in fishery performance and management effectiveness due to change in climate and ocean chemistry, and b) to model ecosystems that explore changes in the North Pacific pelagic fish abundance and how this is influenced by fishing pressure, climate change and oceanographic factors and potential development of maximum sustainable yield.