

## JIMAR ANNUAL REPORT FOR FY 2010

P.I./SPONSOR NAME: Kevin Weng

NOAA OFFICE (Of the primary technical contract): NMFS/PIFSC

PROJECT PROPOSAL TITLE: Pelagic Fisheries Research Program: Program Management

FUNDING AGENCY: NOAA

NOAA GOAL (Check those that apply):

- To protect, restore, and manage the use of coastal and ocean resources through ecosystem-based management
- To understand climate variability and change to enhance society's ability to plan and respond
- To serve society's needs for weather and water information
- To support the nation's commerce with information for safe, efficient, and environmentally sound transportation

PURPOSE OF THE PROJECT (One paragraph):

Manage the activities of the PFRP, solicit and implement new research proposal, and promote science based management of fisheries for highly migratory fisheries in the western Pacific Ocean.

PROGRESS DURING FY 2010 (One-two paragraphs, including a comparison of the actual accomplishments to the objectives established for the period, and the reasons for the slippage if established objectives were not met):

Request For Proposals (RFP). Program manager met with WPRFMC and PIFSC to discuss important topics, and wrote a request for proposals (RFP) to reflect these priorities. An RFP was published and announced in February 2010. Of the 35 letters of interest received, 13 were invited to submit proposals (of which 2 letters of interest were requested to combine their research into one proposal). External peer reviews of all proposals were obtained, and a science review panel meeting was conducted. Of these, 8 proposals were approved for funding by the steering committee.

International collaboration in research on pelagic fisheries. The SPC's Pacific Tuna Tagging Program (PTTP) has received many tag returns, providing a great deal of new data on tuna movements. A collaborating project in Hawaii, the Hawaii Tuna Tagging Project 2, has begun releasing tagged fish. The PFRP is supporting this program.

The PFRP has taken a leadership role in the ADMB Project, an international effort to ensure that the AD Model Builder software will be maintained in the future. (This software is used in over 200 fisheries management agencies for statistical modeling and assessment of fish population around the world; see <http://admb-project.org/>.)

Visiting Scientist program. A postdoctoral scholar was hired in March 2010 after an international search.

**PLANS FOR THE NEXT FISCAL YEAR (One paragraph):**

Disburse funds to successful projects proposed during FY2010 RFP. These projects are: 1) The Role of Social Networks on Fishermen Economic Performance in Hawaii's Longline Fishery; 2) Biological, Economic, and Management Drivers of Fishery Performance: A Global Meta-analysis of Tuna and Billfish Stocks; 3) Age and Growth of Striped Marlin, *Kajikia audax* Caught in the Hawaii-based Longline Fishery; 4) Integrating Electronic and Conventional Tagging Data into Modern Stock Assessment Models; 5) Integrating Conventional and Electronic Tagging Data into the Spatial Ecosystem and Population Model SEAPODYM; 6) Early Life Stage Dispersal of Yellowfin tuna (*Thunnus albacares*) in the Central North Pacific; 7) Biotelemetry Tag Retention in Pelagic Tunas; 8) Ocean Acidification Impacts on Tropical Tuna Populations. PFRP will also be providing funding for Analyses of Catch Data for Blue and Striped Marlins (Istiophoridae).

PFRP will continue to support HTTP2 as well as continued support of graduate education in the fishery sciences. One graduate student is being directly supported by the PFRP, while others are supported within PRFP-funded projects.

**LIST OF PAPERS PUBLISHED IN REFERRED JOURNALS DURING FY 2009, in the following format: (Author or authors with last name and initials, publication year: Article title. *Journal name*, volume, page range.) For example: Charney, J.G., and A. Eliassen, 1964: On the growth of the hurricane depression. *J. Atmos. Sci.*, 21, 68-75.**

See PFRP Publications List

**OTHER PAPERS, TECHNICAL REPORTS, ETC.:** See PFRP Publications List

**GRADUATES (Names of students graduating with MS or PhD degrees during FY 2009; Titles of their Thesis or Dissertation):**

**AWARDS (List awards given to JIMAR employees or to the project itself during the period):**

PUBLICATION COUNT (Total count of publications for the reporting period and categorized by NOAA lead author and Institute (or subgrantee) lead author and whether it was peer-reviewed or non peer-reviewed (not including presentations):

	JI Lead Author	NOAA Lead Author	Other Lead Author
Peer Reviewed			
Non-Peer Reviewed			

**PERSONNEL:**

For projects that awarded subcontracts in the fiscal year, please provide the number of supported postdocs and students from each subgrantee.

**IMAGES AND CAPTIONS** (We will also be including images for the annual report.

Please send two of your best high-resolution, color images (photo, graphic, schematic) as a **JPEG or TIFF (300 dpi)** with a caption for each image. If you do not have an electronic version of the image, a hardcopy version may be dropped off at the JIMAR office located in the Marine Sciences Building, Room 312):

**Acronyms:**

WPRFMC – Western Pacific Regional Fishery Management Council

SPC – Secretariat of the Pacific Community

ADMB – Advection Diffusion Model Builder

SEAPODYM – Spatial Ecosystem and Populations Dynamics Model