

## **JIMAR ANNUAL REPORT FOR FY 2009**

P.I./SPONSOR NAME: Kevin Weng, Dr. Minling Pan

NOAA OFFICE (Of the primary technical contract): National Marine Fisheries Service/Pacific Islands Fisheries Science Center

PROJECT PROPOSAL TITLE: Economic Fieldwork on Pelagic Fisheries in Hawaii

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):

The main objective of the research has been to investigate possible potential long-term pricing relationships among the major landings of the Hawaii tuna longline fishery (for bigeye, yellowfin, skipjack, and albacore). In FY2009, the project staff completed the on-going study and launched a new study on fish price/demand on the Hawaii tuna market. It is important for fishery managers to understand fish price responses to changes in market structure, ecosystem conditions, and regulatory regimes. This study intends to identify regime shifts and price responses in relation to their own landings, to explore potential price linkages with tuna sashimi prices in Japan, and to investigate ENSO (El Niño/Southern Oscillation) cycles on tuna biomass (represented by CPUE), landings, and price.

PROGRESS DURING FY 2009 (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):

A project titled "Structural Breaks and Price Linkage between Hawaii and Japanese Tuna Sashimi Markets" was conducted to understand fish price responses to changes in market structure, ecosystem conditions, and regulatory regimes for the Hawaii tuna market. This study was carried out through a collaborative effort between Dr. Minling Pan of the Pacific Islands Fisheries Science Center and Dr. Jenny Sun, a visiting scholar of the Inter-

American Tropical Tuna Commission and Professor of National Taiwan Ocean University. The following summarizes the major activities:

- Investigated the market trends of the tuna market in Hawaii and Japan during the period of 1995-2008;
- Assessed the ecosystem conditions of the major fishing grounds of the Hawaii tuna fishery;
- Reviewed literature and finalized the model specification for the analyses; and
- Completed an abstract and submitted it to the North Pacific Marine Science Organization (PICES) 2009 Annual Meeting on “Understanding ecosystem dynamics and pursuing ecosystem approaches to management.”

PLANS FOR THE NEXT FISCAL YEAR (One paragraph):

Complete the analysis and present the results in PICES 2009 Annual Meeting and prepare a report for publication

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.

OTHER PAPERS, TECHNICAL REPORTS, ETC.:

None

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

None

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

None

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):

None

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

**PERSONNEL: 0**

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):

- Caption 1:
  
- Caption 2: