

## **JIMAR – PFRP ANNUAL REPORT FOR FY 2005**

P.I./Sponsor Name: Keith Bigelow (NMFS, PIFSC), Adam Langley (SPC), John Hampton (SPC), and John Sibert (UH, JIMAR, PFRP)

Project Proposal Title: **Fishery Dynamics in the Samoan Archipelago**

Funding Agency: NOAA

NOAA Goal (Check those that apply):

- ☒ To protect, restore, and manage the use of coastal and ocean resources through ecosystem-base 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

### **1. Purpose of the Project (one paragraph)**

The immediate goal of the proposed research will be to quantify the spatial and temporal dynamics of longline fisheries in the Samoan archipelago. Local scale fishery impacts of catch levels on CPUE will be investigated within the A. Samoa and Samoa longline fisheries targeting albacore and compared to other albacore longline fisheries in the south Pacific. Detection of local fishery impacts on CPUE is a primary objective of the WPRFMC and other Pacific Island Management authorities and will assist in developing policy within these expanding island-based fisheries. The project will also seek to improve the regional south Pacific albacore stock assessment.

### **2. Progress during FY 2005 (One-two paragraphs, including a comparison of the actual accomplishments to the objectives established for the period, and the reasons for slippage if established objectives were not met):**

This project was funded in November 2004 with a scheduled two-year duration. A recruitment notice for a JIMAR fisheries research analyst was advertised in February and a shortlist was developed in April 2005. The spatial stratification of the MULTIFAN-CL south Pacific albacore assessment has been revised to investigate the impact of different structural assumptions of the model, including the assumptions regarding seasonal movement. The assessment now includes a separate fishery for the

Samoan archipelago, thereby, enabling local scale trends in biomass to be examined relative to fisheries in adjacent areas.

3. Plans for the next fiscal year (one paragraph):

Quantifying the spatial and temporal dynamics of longline fisheries in the Samoan archipelago will commence with the recruitment of the JIMAR scientist. Research will continue on comparing catch rates in American Samoa with neighboring Pacific Island fisheries and conducting project collaboration with SPC staff in Noumea. Refinements to the south Pacific albacore assessment will be presented in August 2005 at the Scientific Committee of the Western and Central Pacific Fisheries Commission. Project presentations may also be presented at the 57<sup>th</sup> annual Tuna Conference to be held at Lake Arrowhead, CA in May 2006 (exact meeting dates to be determined).

4. List of papers published in refereed journals during FY 2005.

None

5. Other papers, technical reports, meeting presentations, etc.

None

6. Graduates (Names of students graduating with MS or PhD degrees during FY 2005. Provide titles of their thesis or dissertation):

None

7. Awards (List awards given to JIMAR employees or to the project itself during the period): None

8. Publication Count (Total count of publications for the reporting period and previous periods categorized by NOAA lead author and Institute (or subgrantee) lead author and whether it was peer-reviewed or non peer-reviewed (not including presentations):

	JL Lead Author			NOAA Lead Author			Other Lead Author		
	FY03	FY04	FY05	FY03	FY04	FY05	FY03	FY04	FY05
Peer-reviewed						0			0
Non-peer reviewed						0			0

9. Students and Post-docs (Number of students and post-docs that were associated with NOAA funded research. Please indicate if they received any NOAA funding. For institutes that award subcontracts, please include information from your subgrantees):

None

10. Personnel:

- (i) Number of employees by job title and terminal degree that received more than 50% support from NOAA, including visiting scientists (this information is not required from subgrantees): None
- (ii) Number of employees/students that received 100% of their funding from an OAR laboratory and/or are located within that laboratory. None
- (iii) Number of employees/students that were hired by NOAA during the past year: None

11. Images and Captions (JIMAR will be including images in the annual report. Please send two of your best high-resolution, color images (photo, graphic, schematic) as a JPEG or TIFF with a caption for each image. Hardcopies of images can be dropped off at the JIMAR office if no electronic versions are available.

- Caption 1:
- Caption 2: