

JIMAR ANNUAL REPORT FOR FY 2008

P.I./SPONSOR NAME: John Kaneko, Paul Bartram, John Sibert

NOAA OFFICE (Of the primary technical contract): PIFSC

PROJECT PROPOSAL TITLE: Incidental catch of Non-target Fish Species and Sea Turtles: Comparing Hawaii's Pelagic Longline Fishery Against Others.
(Project No. 658849)

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 purpose is to evaluate the incidental catch rates of non-target fish species and sea turtles in Hawaii's longline fishery and make comparisons with other pelagic longline fisheries using a methodology patterned after Hall (1999). The final report titled: *Catch to Bycatch Ratios: Comparing Hawaii's Longline Fisheries with Others*, was prepared and distributed as SOEST 0-05 JIMAR Contribution 04-352. Later in 2005, an extension of the project was awarded. The purpose of the extension is to develop (where possible) pelagic longline gear profiles of Japanese and Taiwanese longline fleets in the WCPO producing ultra-low temperature (ULT) frozen sashimi bigeye tuna. Efforts will be made to expand (where possible) the pelagic longline profiles to include information on the number and size of vessels, fish hold capacity, type of refrigeration/freezer, target species and target market in addition to the information on gear and fishing practices.

PROGRESS DURING FY 2008 (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):

Travel to Taiwan to collect information detailing fishing gear configurations and operating methods from Taiwanese ULT freezer tuna longline vessels could not be made due to scheduling conflicts. Graphic presentation of Bycatch top Catch (B/C) ratios for sea turtles for longline fisheries using circle diagrams was refined during this period.

Work began on drafting a manuscript on the use of B/C ratios to differentiate longline caught pelagic fisheries products.

PLANS FOR THE NEXT FISCAL YEAR (One paragraph):

The trip to Kaohsiung Taiwan is being planned for October 2008 coordinating with the bilingual tuna industry specialist and contacts in Taiwan. The longline fishing gear and operational profiles for the Japanese and Taiwanese ULT frozen sashimi tuna longliners will then be summarized and included in the final project report. The manuscript will be finalized and submitted for publication in an appropriate peer reviewed journal. The article will address the use of bycatch to catch ratios (for sea turtles) to differentiate Hawaii longline fishery products based on bycatch impacts.

LIST OF PAPERS PUBLISHED IN REFERRED JOURNALS DURING FY 2008, 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.

Kaneko, JJ and NVC Ralston, 2007. Selenium and Mercury in Pelagic Fish in the Central North Pacific Ocean near Hawaii. *Biol Trace Elem Res* 119:242-254.

OTHER PAPERS, TECHNICAL REPORTS, ETC.:

Bartram, P. 2007. Assessing the sustainability of fresh Pacific bigeye tuna supplies entering the Hawaii market. Case study for World Bank/IUCN Conference on Corruption in Seafood Supply Chains. Presented January 29-31, 2008, Washington, D.C.

Poepoe, K.K., P.K. Bartram and A.M. Friedlander. 2007. The use of traditional knowledge in the contemporary management of a Hawaiian community's marine resources. Chapter 6, p. 119-143 In: (N. Hagggen, B. Neis, I.G. Baird, eds.) *Fishers' Knowledge in Fisheries Science and Management. Coastal Management Sourcebooks 4*, UNESCO Publishing, Rome.

GRADUATES (Names of students graduating with MS or PhD degrees during FY 2008; Titles of their Thesis or Dissertation): Does not apply.

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):

| | JI Lead Author | NOAA Lead Author | Other Lead Author |
|-------------------|----------------|------------------|-------------------|
| Peer Reviewed | 1 | | 2 |
| 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. None.

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: We do not have photographs.