JIMAR ANNUAL REPORT FOR FY 2009

P.I./SPONSOR NAME: Kim Holland, Laurent Dagorn

NOAA OFFICE (Of the primary technical contact): PIFSC

PROJECT PROPOSAL TITLE: Instrumented Buoys as Autonomous Observatories of Pelagic Ecosystems

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): Development and testing of autonomous devices for observing and quantifying the assemblage of pelagic organisms (especially those of commercial interest) that are found in association with fish aggregating devices (FADs)

PROGRESS DURING FY 2009: Specialized batteries for powering the sonar unit in Hawaii were purchased and tested. The prototype "Smart FAD" was tested in "Second Phase" testing in California.

PLANS FOR THE NEXT FISCAL YEAR

Budget shortfalls associated with the efforts of our collaborators at Scripps Institute of Oceanography resulted in the prototype device not being equipped with a robust housing suitable for field deployment in Hawaii or with the appropriate batteries for powering the unit once it is reassembled in Hawaii. The appropriate (AUV-type) batteries have been acquired and are in Hawaii. This housing will be constructed in Hawaii with remaining project funds. Remaining funds will also be used to underwrite the construction of a housing and vessel costs associated with deploying and testing the device.

LIST OF PAPERS PUBLISHED IN REFERRED JOURNALS DURING FY 2009

None

OTHER PAPERS, TECHNICAL REPORTS, ETC.:

GRADUATES (Names of students graduating with MS or PhD degrees during FY 2008; 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):

- Caption 1:

- Caption 2: