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3 June 1997

From: Pierre Flament *PF*

To: John Sibert, Program Manager, Pelagic Fisheries Project

Subject: fourth annual report
"Physical oceanography environment of pelagic fishes"

Cc: Thomas Schroeder, Director, JIMAR

Please find below my report for the fourth year of this project (1 August 1996 to 30 June 1997). The main activities are summarized below.

We are now in the final phase of analysis and publication of the data set collected by this project.

Rick Lumpkin, who will base his PhD dissertation on a combined analysis of drifter, satellite and model data for the Hawaii EEZ, is now well advanced in his work. He is expected to graduate from the University in July 1998. In collaboration with Jean Tournadre, JIMAR visiting scientist, we are presently completing a manuscript to be submitted to Nature this summer, on eddy generation in the lee of the Hawaiian islands and our discovery of the Hawaii Lee Counter-Current. We are also preparing two additional papers based on this data set, once on case studies of eddy formation in the lee of Hawaiian islands, to be submitted Journal of Geophysical Research, and the other on eddy statistics inferred from the drifter array, to be submitted to Journal of Physical Oceanography. Both papers are in advanced states of preparation. We therefore anticipate a total of three refereed papers from this project by the time Rick graduates.

In addition to these refereed publications, we have completed the "Ocean Atlas of Hawaii", a general public presentation of the physical oceanography of Hawaii waters. This text has been on the world-wide-web at <http://satftp.soest.hawaii.edu/atlas/> since January 1996, encountering about 150 hits/day. It will be published in the UH Press' new edition of the Atlas of Hawaii to appear this Fall. We are also printing a 24"x36" poster that will be widely distributed to fishermen, marine stores, etc.. thorough the State, as well as to our PFRP co-investigators. It is expected to be ready by 30 June 1997.

