

JIMAR Annual Report for FY 2000

P.I. NAME: Pierre Kleiber

PROJECT PROPOSAL TITLE: Estimation of bycatch and discards of sharks & other species in the Hawaii longline fishery

FUNDING AGENCY: NMFS/NOAA

1. Purpose of the Project:

The purpose of this project is to estimate catch and disposition of blue sharks and other incidentally caught or bycatch species in the Hawaiian longline fishery. Estimates are the results of various statistical analyses applied to data from the Turtle Observer Program and the Logbook Program of the Hawaiian longline fishery.

2. Progress during FY 2000:

Three manuscripts authored principally by William Walsh are in various stages of progress. One on use of cluster analysis to characterize sectors of the fishery is in internal review as is another manuscript which evaluates reporting practices of fishermen with and without observers on board. The latter was augmented this FY with statistical estimates of confidence intervals for logbook report rates. The results contributed significantly to a north Pacific blue shark stock assessment presented to the Western Pacific Regional Fishery Management Council. The third manuscript develops GAM and regression tree models for prediction of blue shark catch rates. It has been submitted for publication in *Fisheries Research*.

3. Plans for next Fiscal Year:

Revise manuscripts and submit for publication.

4. List of Papers Published in Referred Journals during FY 2000: none

5. Other Papers, Technical Reports, etc. none

6. Names of Students :..... none