

**JIMAR, PFRP ANNUAL PROGRESS REPORT
FY 2001**

P.I. Name: Sam Pooley, Industry Economist
NMFS Honolulu Laboratory

Project Proposal Title: Alternatives for Participation in International Management of Pelagic Fisheries, JIMAR # 653536

Funding Agency: Pelagic Fisheries Research Program/NOAA

1. Purpose of the project and indicative results.

This project is designed to investigate alternative methods for evaluating nation-state and interest group involvement in international management of highly migratory species.

2. Progress during FY 2001. Provide a thorough discussion of accomplishments and problems.

While substantial progress has been made in the MHLC (Multilateral High-level Conference) process, the actual choice and implementation of management regimes remains a possibly contested decision (e.g., the decision of Japan to opt out), as is the form of participation of interest groups within the U.S. delegation, the allocation of fishing rights for U.S. participants, etc. To date, international fisheries conventions tend to follow both traditional fishery management approaches (identifying a total allowable catch and allocating it to individual harvesting groups within participating countries) through standard international state-to-state negotiations and rule-making. This project will utilize the economic theory of strategic behavior (game theory) to model some elements of these inter-relationships.

Initiation of this project was delayed due to a lack of personnel but a University of Hawaii graduate student has just been selected to initiate on this project, beginning in July 2001. The work plan is to hold a multi-session workshop on the basic theory and application of game theory and to write a paper applying the methodology to international fisheries.

3. Plans for the next fiscal year.

A report on the strategic behavior modeling is planned by year's end.

4. List of papers published in refereed journals during FY 2001.

None

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

None

6. Names of students graduating with MS or Ph.D. degrees during FY 2001. Include title of thesis or dissertation.

N/A

7. For multi-year projects, provide budget for the next year on a separate page.

N/A