APPLICATION OF REMOTE SENSING FOR FISHERY RESOURCE ASSESSMENT AND MONITORING

SKYLAB EXPERIMENT NO. 240

CONTRACT NO. T-8217B

PROGRESS REPORT NO. 17

REPORTING PERIOD: 1 May to 31 May 1975

Approved: _____
K. J. Savastano
Principal Investigator

Date Submitted: _____

Technical Monitor: KH Faller
NASA/JSC Earth Resources Laboratory
National Space Technology Laboratories
Bay Saint Louis, Mississippi 39520

APPLICATION OF REMOTE SENSING FOR FISHERY RESOURCE ASSESSMENT AND MONITORING

INTRODUCTION

This is report #17 of a series of progress reports required by the Statement of Work for Skylab Experiment #240 entitled "Application of Remote Sensing for Oceanic Gamefish Assessment and Monitoring" under Contract No. T-8217B.

ITEMS RECEIVED FROM NASA/JSC

The Earth Resources Data Format Contract Book (TR 543, Volume II, Revision A) was received on 6/13/75.

OVERALL STATUS

A. S190B

Analysis of the S190B imagery was completed this month. Negative and positive spliced transparencies with the test site and white marlin distribution data superimposed were density sliced and color enhanced. As with the S190A imagery, no relationship between white marlin location and image density level could be identified. This could be expected since the best correlation was between temperature and white marlin distribution and not with any of the oceanographic parameters that could possibly be inferred from remotely sensed data in the .4 to .7 micrometer range. Resulting density sliced/color enhanced images have been film recorded and processed. A draft of the S190B section of the final report has been prepared, typed, and edited.

B. S190A

A draft of the S190A section of the final report has been typed and edited.

C. S192

Presently awaiting delivery of reprocessed S192 data from NASA (JSC).

D. Other

1. Worked on the preparation of two papers entitled "The Feasibility of Utilizing Remotely Sensed Data to Assess and Monitor Oceanic Gamefish" and "Fisheries Utilization of Remotely Sensed Data" to be presented at technical symposiums in June.

2. Work was performed on the development of software to process S192 radiance data and white marlin distribution data to determine the relationship of one to the other.

EXPECTED ACCOMPLISHMENTS

The completion of the papers previously listed and the presentation of those papers at the Earth Resources Survey Symposium and the Purdue Symposium will be accomplished in the next month. Continued work on software to process S192 data when the reprocessed data are received.