



LONG ISLAND UNIVERSITY

SCIENCE ENGINEERING RESEARCH GROUP

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ERTS 069

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15 February 1973

National Aeronautics & Space Administration
Goddard Space Flight Center
Greenbelt, Maryland 20771

Gentlemen:

RE: Type I Progress Report for the Period
December 15, 1972 to February 15, 1973

This document is submitted herewith in reference to Contract No. NAS5-21793 and includes the following:

- A) Title of the Investigation: In Situ Spectroradiometric Quantification of ERTS Data
- B) GSFC Identification Number: UN 295 (Dr. Edward Yost)
- C) An overall analysis of the imagery received from NASA for the test sites in consideration was performed. Candidate frames for additive color analysis were selected for the Phase III activity under this contract which is planned to start in April.
- D) A multispectral photo analysis of the Willcox Playa was also made using ERTS imagery on three consecutive overpasses. The results of the analysis showed that a time sequential multispectral color presentation relates color to environmental changes as a function of time, rather than spectral changes for any single date. Since the primary mission of ERTS is to detect changes in the environment, it is believed that this mode of data reduction would be employed further in conjunction with the conventional techniques.

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QUANTIFICATION OF ERTS DATA Progress
Report, 15 Dec. 1972 - 15 Feb. 1973
(Long Island Univ.) 2 p HC \$3.00

ERTS 069 Type I Progress Report continued ...

- E) Up to this date no changes are expected in the Data Analysis Plan. Underflight imagery under the Aircraft Program has been received and is currently being viewed. Correlation of the aircraft imagery with the ERTS imagery is planned for the next reporting period.

Very truly yours,



Edward Yost
Professor and Director