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REMOTE SENSING OF OCEAN CURRENT BOUNDARY LAYER

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MONTHLY REPORT



**U.S. DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
**ENVIRONMENTAL RESEARCH LABORATORIES**

Date : May 5, 1975

From : George A. Maul

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Subject : Monthly Progress Report, T-4713-B

This is the twenty-second report on project EREP 108, which covers the month of April 1975.

The P. I. traveled to JSC to perform image enhancement experiments on the Houston Facility. The Line-straightened S192 data was found to be unacceptable for ocean analysis because of a "ringing" which distorted the data. The ocean information problem on skylab appears to be similar to the ERTS problem in that the ocean information is contained in a narrow range of radiance. In order to extract the information, computer enhancement is required. The computer experiments this month showed that the general processing routines, which production necessitates, cause unwanted signals in the ocean with amplitudes as large as ocean signal amplitudes.

In order to test the S192 for ocean data, it is necessary to request data in conical format. This will produce geographically distorted information, which is of no consequence, but more importantly, the radiometric quality will be affected only to a minor degree. The data should be calibrated and unfiltered except for the low frequency filtration inherent in the calibration process. Specifically, it is requested that USC rebuild a 51-7 from a 51-1 and then process it into a 51-2. A final decision on high frequency filtering for the noise at about every 15-16 scan spots will be made by telecon with Dr. R. Shell after receipt here of the report 74-FM-14.

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