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10 December 1975

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Type II Progress Report for Period 1 September 1975 to 30 November 1975

Prepared for: National Aeronautics and Space Administration
Goddard Space Flight Center
Greenbelt, Maryland 20771

- A. Problems - None
- B. Accomplishments

(1) The San Pablo Bay correlation project is in the last stages of refinement. Seven months of LANDSAT data from 1974 were used as the basis for the project (March, May, June, July, August, October and November). For each month, density contour maps have been made from the LANDSAT imagery for the San Pablo Bay--Suisun Bay area. Spot densitometer readings were also taken from areas of maximum and minimum suspended sediment levels. These readings along with seatruth measurements and LANDSAT imagery density wedge levels are being used as calibration. The resulting information from the LANDSAT imagery is being programmed into a correlation coefficient utilizing the data from numerous sediment sampling stations in San Pablo Bay. For each individual station a correlation coefficient is being calculated. In viewing the data as a whole, the correlation between LANDSAT density and sediment deposition is to be determined.

(2) The flight test over the Ventura Harbor and Anacapa Island was completed on 16 October. Aircraft photography was collected simultaneously with the LANDSAT overpass. Coastal and shipboard seatruth included: wind, waves, suspended particulate matter, secchi disk, temperature and current measurements. These data have all been compiled for utilization in sediment transport and current studies in the Anacapa

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Inclosure 1

(E76-10113) CALIFORNIA COAST NEARSHORE
PROCESSES STUDY USING ERTS-B DATA Progress
Report, 1 Sep. - 30 Nov. 1975 (Army Engineer
District, San Francisco, Calif.) 2 p HC
\$3.50
N76-16536
Unclas
CSCL 08J G3/43 00113

Channel. Sixteen ocean stations were occupied. The suspended particulate content was determined by weight and filtration method at the University of Southern California Sedimentary Processes Lab. When the LANDSAT imagery arrives, a detailed correlation and interpretation will be made.

(3) Mosaics of the three California coastal current seasons are being assembled. Current and suspended sediment patterns are being mapped.

(4) Information from the U.S. Army Corps of Engineers project LEO (Littoral Environmental Observation) from coastal areas are being used in interpreting the LANDSAT imagery. The Ventura County area in Southern California is a major area of study.

C. Significant Results - None

D. Publications - None

E. Recommended Changes - None

F. Funds Expended - \$24,000

G. Data Use Tabulation

| | | |
|------------------------|----|----------------|
| Value of data allowed | \$ | 9,800.00 |
| Value of data ordered | \$ | Standing Order |
| Value of data received | \$ | 3,256.00 |

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