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September 22, 1976

Progress Report #5

7.6-10486

673-148792

N. \ Contract #NAS5-20945, Investigation #2319B

- A. Problems - Mr. Bill Evans of Stanford Research Institute (SRI) has been working on the satellite images with the use of ESIAC (Electronic Satellite Image Analysis Console). One proposed product of this study was to have been a movie made from images of a specific bay area location taken during a one-year period. Looking at the images on ESIAC's TV monitors, there appeared to be significant pattern to make an informative movie. However, when these images (in various color combinations and polarity) were taken from the screen, there wasn't much detail left. Because of the poor image quality from the ESIAC, Mr. Evans suggested that a movie made by use of this process would not be very useful. Making a movie directly from the satellite image might be more useful but could not be made with the money left in the contract. We decided to drop the idea of a movie.

Looking at the images available from the Bay Area we found there were 17 days in which images were available (from July 1975 through June 1976), but there were only 6 dates in which conditions were most suitable for detailed study. One problem arose in comparing U-2 coverage with satellite, there were no days when both images were available even though all 3 U-2 flights were flown on days when the satellites passed over. The difficulty seems to be that the area of interest is right at the margin of two tracks and was not always present on images sent from the EROS data center. I have ordered the images again to try to obtain the required areal coverage.

- B. Accomplishments

The images are all stored in ESIAC and have been examined in detail. Ground truth data have been assembled. A limited literature reviewed has been started. During the forthcoming quarter the final report of the project will be prepared. Because of the small amount of money available for this study, the scope of final report will be somewhat limited.

One accomplishment of this study has been to demonstrate that a study of this nature cannot be conducted without more money. Getting boats and people into the water at the times and locations needed is an expensive proposition.

- C. Significant Results

None to date. Any significant findings will be summarized in the final report.

N76-32608

Unclas
G3/43 00486

(E76-10486) [WATER QUALITY CONDITIONS IN
SAN FRANCISCO BAY DELTA] Progress Report
(California State Dept. of Water Resources)
CSCI 05B
1 p HC \$3.50