

## General Disclaimer

### One or more of the Following Statements may affect this Document

- This document has been reproduced from the best copy furnished by the organizational source. It is being released in the interest of making available as much information as possible.
- This document may contain data, which exceeds the sheet parameters. It was furnished in this condition by the organizational source and is the best copy available.
- This document may contain tone-on-tone or color graphs, charts and/or pictures, which have been reproduced in black and white.
- This document is paginated as submitted by the original source.
- Portions of this document are not fully legible due to the historical nature of some of the material. However, it is the best reproduction available from the original submission.

"Made available under NASA sponsorship  
in the interest of early and wide dis-  
semination of Earth Resources Survey  
Program information and without liability  
for any use made thereof."

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)  
CSSL 05B  
1 p HC \$3.50