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May 15, 1975

IDENTIFICATION AND INTERPRETATION OF TECTONIC
FEATURES FROM SKYLAB IMAGERY

ERP Investigation No. 438

Monthly Report

April 1 through April 30, 1975

General Order No. 5007

Contract No. NAS9-14440

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Principal Investigations Management Office
Lyndon B. Johnson Space Center
Earth Observations Division
Martin Miller, TF6
Houston, Texas 77058

Monem Abdel-Gawad
Principal Investigator

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1049 CAMINO DEL RIO
THOUSAND OAKS, CALIF. 91320
805/498 4345



EREP INVESTIGATION NO. 438

MONTHLY REPORT

April 1, 1975 - April 30, 1975

Title: Identification and Interpretation of Tectonic Features
from Skylab Imagery, Contract NAS9-14440

Status

During this period we carried out ground truth studies in western Mojave Desert and foothill area of the San Bernardino Mountains. The objectives of the field trip were to check the surface expression of faults observed in Skylab and U-2 photographs and estimate the ground resolution of S190B photograph. Progress was made in preparing illustrations to be included in the final report.

Significant Results

In spite of the inferior ground resolution of EREP S190B compared to U-2 photographs, we found that most known faults are more readily identifiable in EREP S190B photograph. Surface indications of recent faulting are generally observed in EREP S190B photographs. Comparison of secondary roads (asphalt and dirt) registered in EREP and U-2 photographs together with field measurements shows that dirt and asphalt roads about 7 meters wide can be detected in EREP S190B photograph where sufficient contrast exists between the tone of road surface and surrounding terrain. In low contrast cases roads more than 10 meters wide could not be detected.

Plans for Next Period

We plan to devote the remaining period to writing the final report and preparing illustrations.

Problems

None

Publications

None