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IDENTIFICATION AND INTERPRETATION OF TECTONIC
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EREP Investigation No. 438

Monthly Report

January 1, 1975 - January 31, 1975

Contract No. NAS9-14440

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

Status

During this period we completed mapping linears related to the Texas tectonic zone in the Mojave Desert block. A map of transverse linears has been assembled from imagery overlays covering the Mojave block, southern Arizona and parts of Chihuahua, Mexico. We completed a more detailed study in the western Mojave Desert of faults showing evidence of recent movement and older segments of transverse faults.

Significant Results

1. Two alternate models for the extension of the Texas zone through the Mojave Desert block have been developed:
 - a. Along the Pisgah Line
 - b. Along the eastern Transverse Ranges; this model suggests a counterclockwise rotation of the Mojave block.
2. Analysis of S190B photographs of the western Mojave Desert provides strong evidence for the feasibility of identifying recent fault breaks.

Plans for Next Period

We plan to conduct a comparison of a selected S190B color frame covering the western Mojave-San Bernardino Mountains area with IR U-2 imagery. We hope to correlate the quality of imagery in the specific application of identifying recent fault breaks.

Problems

None

Published Articles

None