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CALIFORNIA EARTH SCIENCE CORPORATION

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December 5, 1974

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CR-141097

Contract NAS 2-7698
MONTHLY PROGRESS REPORT NO. 18
November 1974

Fault Tectonics and Earthquake Hazards in the Peninsular Ranges, Southern California, EREP Investigation 463

NASA-Lyndon B. Johnson Space Center
Technical Support Procurement Branch
Houston, Texas 77058

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semination of Earth Resources Survey
Program information and widest availability
for any use made thereof."

Attention: Mrs. Ruth Elder, Mail Stop BB631 (B9)

Dear Mrs. Elder:

California Earth Science Corporation (CalESCO) is pleased to submit its 18th Monthly Progress Report on the application of Skylab imagery to analysis of fault tectonics and earthquake hazards in the Peninsular Ranges, Southern California under NASA Contract No. NAS 2-7698.

Summary Outlook

The principal plans for the immediate future are to continue analysis of images from SL1/SL2 and SL3. The milestone plan provides a time-oriented schedule of the entire effort to be performed.

Significant Progress

1. S192 tapes 926525, 926526 and 926527 were read. The area covered is in the San Joaquin Valley and is outside our test site. The images and a discussion of the problems observed with these tapes are being sent under separate cover.
2. The program to generate a test chart for pseudocolor transformation is still being debugged.
3. Work was continued on a technical report describing our analysis of the Tract 63 190A images from San Geronio Pass to the Gulf of California, including the San Andreas and San Jacinto fault zones.
4. A paper describing our study of faults and lineaments in the Peninsular Ranges was submitted for publication in the GSA Cordilleran Section

(E75-10074) FAULT TECTONICS AND
EARTHQUAKE HAZARDS IN THE PENINSULAR
RANGES, SOUTHERN CALIFORNIA Monthly
Progress (California Earth Science Corp.,
Santa Monica.) 2 p HC \$3.25 CSCL 08E

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Guidebook for the March 1975 meeting. It will also be distributed as a technical progress report to NASA.

5. Field work was carried out on the San Diego River and Sweetwater River lineaments.

Expected Accomplishments, Current Month

1. Pseudocolor transformations of the computer generated test charts will be produced.
2. Work on current technical reports will be continued.
3. Field work will be continued on the northeast trending lineaments of the Peninsular Ranges.

Travel Summary and Plans

Several days will be spent in the field near Julian, California.

Special Urgent Request

It is urgently requested that first priority to filling our S192 orders be given to Mission SL2, Task/Site 286121, Roll 570, Exp/Sys S192-669, EREP Pass 2, GMT 73/6/2/20 7'29" to 8'16".

Very truly yours,

CALIFORNIA EARTH SCIENCE CORPORATION

Donald L. Samon for

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Principal Investigator

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