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CalESCO

CALIFORNIA EARTH SCIENCE CORPORATION

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August 5, 1975

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Contract NAS 2-7698
MONTHLY PROGRESS REPORT NO. 26
August 1975

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

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

Dear Mrs. Elder:

California Earth Science Corporation (CalESCO) is pleased to submit its 26th
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 prepare the final reports
on our analysis of Skylab data, and to prepare and analyze S192 images. Field
studies of the area covered by the S192 images will be accomplished when the
technical reports in preparation are completed.

Significant Progress

1. Technical Report 75-2 entitled "Application of Skylab and ERTS Images to
the Fault Tectonics and Earthquake Hazards of the Peninsular Ranges,
Southwestern California" was completed. This constitutes one of the final
reports on the subject contract and describes all work accomplished in the
Peninsular Ranges of southwestern California.
2. An abstract entitled "Application of Skylab and U-2 Imagery to Fault
Investigations in Southern California" was submitted for presentation at
the 18th Annual Convention of the Association of Engineering Geologists,
2-8 November, 1975, Lake Tahoe, California.

(E75-10385) FAULT TECTONICS AND EARTHQUAKE
HAZARDS IN THE PENINSULAR RANGES, SOUTHERN
CALIFORNIA Monthly Progress Report. Aug.
1975 (California Earth Science Corp., Santa
Monica.) 2 p HC \$3.25

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CSCL 08G G3/43 00385

3. A paper entitled "Enhancement of Geologic Features Near Mojave, California by Spectral Band Ratioing of ERTS MSS Data" was accepted for presentation (and publication) at the 10th International Symposium on Remote Sensing, Ann Arbor, Michigan, 6-10 Oct 1975. A comparison of ERTS and Skylab 192 data is planned.
4. An abstract entitled "Discrimination of Alluvial Deposits on the Mojave Desert by Skylab 192 and ERTS Multispectral Data" submitted to the Geomorphology Session of the Annual Meeting of the Geological Society of America was rejected.
5. An invitation was received to submit a paper describing work in the Peninsular Ranges to the San Diego Association of Geologists Guidebook to be published in October 1975.

Expected Accomplishments, Current Month

1. Work will continue on a technical report describing our analysis of the enhancement characteristics of pseudocolor transformations.
2. A talk entitled "Newly Detected Faults within the Peninsular Ranges of Southern California by Use of Spacecraft Imagery" will be presented at the Southern California Section Meeting of the Association of Engineering Geologists.
3. Ratio images of all usable S192 channels of the Mojave test area will be generated.

Travel Summary and Plans

No travel is planned during August.

Very truly yours,

CALIFORNIA EARTH SCIENCE CORP.

Paul M. Merifield
Paul M. Merifield
Principal Investigator

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