

Support of the Southern California
Geophysical Data and Analysis Center

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U.S. Geological Survey
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FINAL TECHNICAL REPORT

1 April 1980 - 31 September 1980

Contract Number: U.S. Geological Survey Contract
No. 14-08-0001-18330

Name of Contractor: Seismological Laboratory
California Institute of Technology
Pasadena, California 91125

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Short Title of Contract: Support of the Southern
California Geophysical Data
and Analysis Center

Effective Date of Contract: October 1, 1979

Contract Expiration Date: September 30, 1980

Amount of Contract: \$160,000

Date of Report: October 30, 1980

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are those of the authors and should not be interpreted
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Goals

1. To support the data collection and processing activities of the CEDAR (Caltech Earthquake Detection And Recording) system and CROSS (Caltech Remote Observatory Support System).

Results

1. CEDAR

CEDAR operations, originally developed and supported by this contract and its predecessors (contracts # 14-08-0001-16629,17642), is now an element of the joint USGS-Caltech SCARLET system (Southern California Array for Research on Local Earthquakes and Teleseisms). As such its product is a component of the results produced by the contract "Southern California Seismic Arrays", contract # 14-08-0001-16719. The result of this effort will be reported on for the latter contract (16719).

2. CROSS

This contract supplies continuing operational support for CROSS developed under the predecessor contracts (given above). During this reporting period, three sites have been abandoned (Buck Canyon - Clark, Valyermo - Clark, Valyermo - Lamar/Merifield), two are temporarily out of service (Bouquet Reservoir - Teng, Caltech Campus - Ahrens), and one site added (Riverside - Teng). They are as follows:

SITE LOCATION	# CHAN. IN USE	TYPE of MEASUREMENTS	PRINCIPAL INVESTIGATOR	NOTES
Anza	1	water well	Lamar/Merifield	
Bouquet Reservoir	1	Gravimeter	L. Teng	1
Hollister	8	tellurics	T. Madden	
Kresge Lab.	6	tilt,gravimeter	J. Whitcomb	
Palmdale	8	tellurics	T. Madden	
Riverside	3	radon	L. Teng	
Caltech campus	6	tilt	T. Ahrens	1

Notes: (1) Currently out of service at the discretion of the Principal Investigator.

The data at these sites is collected once a day via the telephone telemetry polling procedure and is being accumulated as a data base on the Caltech Seismo. Lab. PRIME computing system. The data is available externally via a modem port on the computer system but the current method of data delivery for non-Caltech investigators is by use of magnetic tape.