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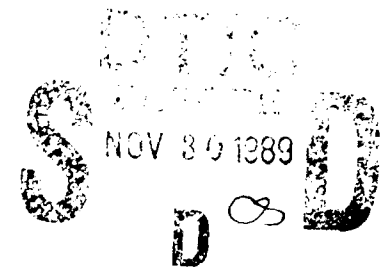
1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE 1 Feb 84	3. REPORT TYPE AND DATES COVERED Quarterly & Development (1/10/83-12/83)	
4. TITLE AND SUBTITLE ATTENUATION IN THE WESTERN GREAT BASIN			5. FUNDING NUMBERS 61101E A04397	
6. AUTHOR(S) Drs. Keith F. Priestley & Alan S. Ryall				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) University of Nevada Reno, NV 89557			8. PERFORMING ORGANIZATION REPORT NUMBER	
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11. SUPPLEMENTARY NOTES

12a. DISTRIBUTION / AVAILABILITY STATEMENT	12b. DISTRIBUTION CODE
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13. ABSTRACT (Maximum 200 words)

Progress during the reporting period: (1) Installed relay-link for Mina digital station on Mt Ferguson (2) Prepared digital station for installation at Bodie (3) Designed fourth digital station for installation south of NTS for S (c) S study



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APPROX. 29-1-115

1 February 1984

Quarterly Research and Development Status Report

No. 5

1 October 1983 - 31 December 1983

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ARPA Order:	4397
Program Code:	3D60
Name of Grantee:	University of Nevada - Reno
Grant Expiration Date:	30 September 1984
Amount of Grant:	\$203,692
Grant Number:	49620-83-C-0012
Principal Investigators:	Keith F. Priestley Alan S. Ryall
Program Manager:	Keith F. Priestley
Short Title of Work:	ATTENUATION IN THE WESTERN GREAT BASIN

A-1



Sponsored by
Advanced Research Projects Agency (DOD)
ARPA Order No. 4397
Monitored by AFOSR Under Grant 49620-83-C-0012

1. Research Program and Plan

- (a) Operate three wideband, digital seismic stations in the western Great Basin as a dispersed network.
- (b) Use data from these stations to examine variations in m_b and t^* from area to area in the western Great Basin.
- (c) Investigate ways in which high-quality digital stations may be used to improve seismic verification at regional distance ranges.
- (d) Study variations in the attenuation operator for multiple S_cS recorded at western U.S. stations.
- (e) Study m_b/M_s relationships for Mammoth earthquake sequence.

2. Status of Project

(a) Progress During the Reporting Period:

- (1) Installed relay-link for Mina digital station on Mt. Ferguson.
- (2) Prepared digital station for installation at Bodie.
- (3) Designed fourth digital station for installation south of NTS for S_cS study.

(b) Major Equipment Purchased During Reporting Period:

- (a) replace 11/03 in digital recording system with 11/23 which allows more stations to be added to the digital network.
- (b) Telectronics graphic terminals.

(c) Change in Key Personnel During the Reporting Period: None.

(d) Trips, Meetings, Papers Given During the Reporting Period:

(1) Priestley's travel:

- (a) to LaJolla, Calif. 10/19-22 for Global Digital workshop.
- (b) to Livermore, Calif., 11/1-3 to collect broad-band digital data for Mammoth Mb/Ms study.
- (c) to Menlo Park, Calif., 11/15-16 for Canadian Network data for Mammoth Mb/Ms study.
- (d) to Sacramento, Calif., 11/21 to for CDMG strong motion data for Mammoth Mb/Ms study.
- (e) to San Francisco, Calif., 12/7-8 for AGU meeting.

(2) Ryall's travel:

(a) 11/3-4 DARPA panel meeting--TTBT--Washington, D.C.

(b) 12-6-8 AGU, San Francisco.

(e) Problems Encountered: None.

(f) Request made for a no-cost extension due to delay in installing final digital stations for $S_c S$ study, and due to Ryall's anticipated leave to work for ARPA.

(g) Fiscal Status:

1. Amount currently provided in contract: \$203,692
2. Expenditures and commitments to date: \$72,236
3. Estimated funds required to complete this work: \$203,692
4. Estimated date of completion of work: 30 June 1985