

APPENDIX C:

USGS TEMPORARY LAND STATION INFORMATION

On April 24-25, 2000, three temporary land stations were deployed for 1.5 months along the western side of Puerto Rico (Figures 1 and 5, and Table C1). These stations fill in the gaps in the north-south and east-west lines of ocean bottom seismometers. The sites were also chosen so as to augment the current coverage of PRSN land stations. While these three stations will not provide locations of new events, they will help reduce the relocation errors for most onshore or near-shore events.

Three short-period three-component land seismographs were provided by the USGS Menlo Park, CA, office. Table C3 describes the technical specifications for the temporary land seismographs. During the 45-day deployment, each station was

serviced twice to download data to tape. Continuous data was saved in Reftek format and later written as SEGY files.

Table C2. USGS temporary land station deployment personnel.

| Deployment Personnel |
|---------------------------------------------------------|
| Russell Sell, USGS |
| Dr. Erich Roth, USGS |
| Rafael Abreu, Puerto Rico Seismic Network, UPRM |
| Samuel Vega Figueroa, Puerto Rico Seismic Network, UPRM |

Table C1. USGS temporary land station information.

| Station | Location | Latitude | Longitude | Installed (UTC) | Removed | Comments |
|---------|----------------------|-------------|-------------|--------------------|-----------|-------------------------------------------------------------------------------------------------------------|
| OVEJ | North of Mayagüez | 18° 15.5' N | 67° 5.5' W | 4/25/2000 16:21 | 6/13/2000 | |
| GUAN | Guanica State Forest | 17° 58.0' N | 66° 52.5' W | 4/25/2000 20:54 | 6/13/2000 | |
| COAM | Banjo de Coamo | 18° 02.5' N | 66° 22.5' W | 4/26/2000 15:53 | 6/14/2000 | A bad disk was swapped out on 6/15/2000. This resulted in the loss of data for 6/13/2000 through 6/15/2000. |

Table C3. USGS temporary land seismometer specifications.

| | |
|-------------------------|----------------------------------------------------------------------------------------------|
| Instrument: | Mark Products L-22 seismometer |
| Type: | 3-component Short-period 2 Hz natural frequency |
| Data Recorder: | Reftek Data Acquisition System Model 72A-07/6 |
| Sample Interval: | 100 samples per second |
| Clock Accuracy: | Clock synchronized with REFTEK Model 111A GPS clock Time errors less than 10 milliseconds |
| Power: | 1 Standard 12-volt deep-cycle auto battery Continuously recharged with a trickle charger |