

The California Strong Motion Instrumentation Program (CSMIP), a program within the California Geological Survey (CGS) of the California Department of Conservation, records the strong shaking of the ground and structures during earthquakes for analysis and utilization by the engineering and seismology communities, through a statewide network of strong motion instruments (www.conservation.ca.gov/CGS/smip). CSMIP is advised by the Strong Motion Instrumentation Advisory Committee (SMIAC), a committee of the California Seismic Safety Commission. Major program funding is provided by an assessment on construction costs for building permits issued by cities and counties in California, with additional funding from the California Governor's Office of Emergency Services (Cal OES), the Office of Statewide Health Planning and Development (OSHPD) and the California Department of Transportation (Caltrans)

In July 2001, the California Governor's Office of Emergency Services (Cal OES) began funding for the California Integrated Seismic Network (CISN), a newly formed consortium of institutions engaged in statewide earthquake monitoring that grew out of TriNet, funded by FEMA, and including CGS, USGS, Caltech and UC Berkeley. The goals are to record and rapidly communicate ground shaking information in California, and to analyze the data for the improvement of seismic codes and standards (www.cisn.org). CISN produces ShakeMaps of ground shaking, based on shaking recorded by stations in the network, within minutes following an earthquake. The ShakeMap identifies areas of greatest ground shaking for use by OES and other emergency response agencies in the event of a damaging earthquake.

The Center for Engineering Strong Motion Data (CESMD) is operated by the CSMIP in cooperation with the National Strong-Motion Project (NSMP), a part of the Advanced National Seismic System (ANSS) of the U.S. Geological Survey (USGS). The CESMD builds on and incorporates the CISN Engineering Data Center and will continue to serve the California region while expanding to serve other ANSS regions. The Data Center provides strong-motion data rapidly after a significant earthquake in the United States. Users also have direct access to data from previous earthquakes and detailed information about the instrumented structures and sites. The CESMD also provides access to the U.S. and international strong ground motion records through its Virtual Data Center (VDC). The Data Center is co-hosted by CGS and USGS at www.strongmotioncenter.org

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