

California Institute of Technology

“Roadmap” to sources of useful information in the event of a significant earthquake

USGS Earthquake Hazards Program

<http://earthquake.usgs.gov>

This site gives a comprehensive overview containing links to diverse sources of earthquake information

Seismic Information and Earth Sciences

California Institute of Technology(Caltech)

www.trinet.org

315 S. Hill Street, Pasadena, CA 91125

Contact:	Jill Perry, Media Relations	626/395-3227
General Info:	Margaret Vinci, Office of Earthquake Programs	626/395-6318
Hot Line:	Recorded updates	626/395-6977

California Division of Mines and Geology(CDMG)

www.conserv.ca.gov/dmg

Contact:	Jim Davis, State Geologist	916/445-1923
	Tony Shakal, State Geologist, SMIP program	916/322-7481
	801 “K” Street, MS 12-3, Sacramento, CA 95814-3531	

The CDMG plays an important part in loss-reduction from earthquakes, landslides and other geologic hazards. They collect information on ground and structure shaking from instruments installed in and outside buildings, dams, bridges, schools and commercial buildings under SMIP (small ground motion instrument program)

Local office:	655 S. Hope Street #700, Los Angeles, CA 90017	213/239-0878
<i>Available information::</i>	Statewide earthquake risk maps, maps and reports of seismic hazard zones, data from maps and digital images of earthquake fault zone map	

National Earthquake Information Center(NEIC)

<http://neic.usgs.gov>

<http://geohazards.cr.usgs.gov/eq/>

Contact:	General information	303/273-8500
	24 hr. duty seismologist/emergency	303/273-8427 or 303/273-8428
	1711 Illinois Street, Golden Colorado, 80401	

The NEIC determines the location and size of all significant earthquakes nationally (4.5 mag) and worldwide (6.5 mag) and disseminates information to national and international agencies. They collect and provide seismic information from digital national and global seismograph networks. The NEIC is the national data center and archive for earthquake information.

Available information: Seismicity maps and information on national or international earthquakes

National Strong Motion Program

<http://nsmp.wr.usgs.gov/>

The U.S. Geological Survey National Strong-motion Program has the primary Federal responsibility for recording each damaging earthquake in the United States on the ground and in man-made structures in densely urbanized areas to improve public earthquake safety. The program maintains a national cooperative instrumentation network, a national data center, and a supporting strong-motion data analyses and research center in support of this responsibility.

Southern California Earthquake Center(SCEC)

213/740-5843

<http://www.scecdc.scec.org/faultmap.html>

Contact: Mark Benthien, Associate Director (benthien@usc.edu)

213/740-0323

The Southern California Earthquake Center (SCEC), headquartered at USC, gathers new information about earthquakes, integrates this knowledge into a comprehensive and understanding of earthquake phenomena, and communicates this understanding to the public. The SCEC Outreach Office offers formal and information education activities and technical resources, and serves as a media interface for SCEC scientists at USC, Caltech, Columbia, Harvard, MIT, SDSU, Stanford, USGS, UCLA, UC San Diego, UC Santa Barbara, Univ. of Nevada, Reno., and 26 other institutions throughout the country. SCEC can provide historical information and current viewpoints related to recent earthquakes and science, via telephone and on-camera interviews, fact sheets, and SCEC's web site at www.scec.org.

Southern California Integrated GPS Network(SCIGN)

Contact: Ken Hudnut, USGS

626/583-7232

<http://www.scign.org>

SCIGN is an array of Global Positioning System (GPS) stations distributed throughout Southern California with emphasis on the greater Los Angeles metropolitan area to provide coverage for estimating earthquake potential in Southern California, to identify active blind thrust faults, to measure local variations in strain rate that might reveal properties of potential faults and, in the event of an earthquake, to measure permanent crustal deformation not detectable by seismographs as well as the response of other faults to a change in the strain during an earthquake.

University of California Berkeley Seismo Lab

<http://www.seismo.berkeley.edu/seismo/Homepage.html>

Contact: Lind Gee, REDI Coordinator

510/643-9449

The U.C Berkeley Seismological Laboratory has along history in the fields of earthquake science and earthquake information. Since 1887, the Seismological Laboratory has been involved in operating seismic networks in central and northern California.

U.S. Geological Survey(Northern California)USGS

<http://quake.wr.usgs.gov>

345 Middlefield Road, Menlo Park, CA

Contact: Susan Garcia

650/329-4668

Stephanie Hannah(Seattle/Western Regional Director)

U.S. Geological Survey(Southern California)USGS

<http://pasadena.wr.usgs.gov> and www.trinet.org

535 Wilson Ave., Pasadena, CA 91125

Contact: Linda Curtis

626/583-7811

Earthquake Engineering

California Institute of Technology Civil Engineering

315 S. Hill Street, Pasadena, CA 91125

Contact: Jill Perry, Media Relations

626/395-3227

Consortium of University for Research in Earthquake Engineering (CUREE)

www.curee.org

A non-profit organization devoted to the advancement of earthquake engineering research, education and implementation

Earthquake Engineering Research Institute(EERI)

www.eeri.org

Contact: Ms. Susan Tubbesing, Executive Director

499 14th Street, Suite 320, Oakland, CA

510/451-0905

The objective of EERI is to reduce earthquake risk by advancing the science and practice of earthquake engineering, by improving understanding of the impact of earthquakes on physical, social, economic, political and cultural environment, and by advocating comprehensive and realistic measures for reducing the harmful effects of earthquakes.

Available information: general earthquake information, building performance, learning from earthquakes, reconnaissance of earthquakes national and international

Multidisciplinary Center for Earthquake Engineering Research (MCEER)

<http://mceer.buffalo.edu>

MCEER's overall goal is to enhance the seismic resiliency of communities through improved engineering and management tools for critical infrastructure systems (water supply, electric power, hospitals). Seismic resilience (technical, organizational, social and economic) is characterized by reduced probability of system failure, reduced consequences due to failure, and reduced time to system restoration.

Pacific Earthquake Engineering Research Center

<http://peer.berkeley.edu>

NSF sponsored research center that is a collaboration of UCB, Caltech, Stanford, UCI, UCLA, UCSD, UCSD, USC and University of Washington

Structural Engineers Association of California SEAOC

www.seaoc.org

SEOC's mission is to advance the structural engineering profession; to provide the public with structures of dependable performance through the application of state of the art structural engineering principles; to assist the public; to promote natural hazard mitigation; to provide continuing education and encourage research to provide structural engineers with the most current information and tools to improve their practice and to maintain the honor and dignity of the profession.

Emergency Service Agencies

During an event these agencies can provide information relative to emergency response, damage, reconnaissance and recovery

City of Los Angeles Emergency Preparedness Department (EPD)

<http://www.lacity.org/epd/>

Contact: Ellis Stanley, General Manager, Emergency Preparedness Department 213/485-3469
200 N. Main Street, Room 1500, Los Angeles, CA 90012

State of California Research Clearing House

Contact: Dr. Tousson Topozada, Senior Seismologist 916/322-9309
801 "K" Street, MS 12-30, Sacramento, CA 95814-3531

The Clearinghouse is comprised of various representatives from a wide range of fields including researchers, practicing engineers, seismologists/geologists, municipal officials and representatives of organizations concerned with seismic safety. This group will be deployed as a working group in the event of an earthquake to collect critical information from field investigations and provide a single point of contact for easy exchange of information among researchers, emergency managers and practitioners.

Federal Emergency Management Agency (FEMA)

www.FEMA.gov

Headquarters: 500 C Street S.W., Washington, D.C. 20472

Regional Office: Presidio of San Francisco, P. O. Box 29998, San Francisco, CA 94129

Local Disaster Field Office: 75 N. Fair Oaks, Pasadena, CA 626/431-3000

Contact: Brett Hansard, Public Relations 626/431-3230

FEMA strives to reduce loss of life and property and protect our nation's critical infrastructure from all types of hazards through a comprehensive, risk-based, emergency management programs of mitigation, preparedness, response and recovery.

Available information: Latest disaster news, advisories and recommendations, photos and graphics of situations and situation updates.

Los Angeles County Office of Emergency Management(OEM)

<http://www.lacoeoc.org>

Contact: Constance Perett, Manager, LACO OEM
1275 N. Eastern Avenue, Los Angeles, CA 90028

213/980-2261

The main function is that of the disaster communications service /Los Angeles County Emergency Operations Center

Available information: damage assessment in Los Angeles County, emergency training, preparedness and education to reduce loss during emergencies, photo archives and disaster assistance information

Orange County Office of Emergency Management(OEM)

Media contact: Jim Amormino, Public Relations Sheriff's Dept., Santa Ana, CA

714/647-7042

Emergency Center: 2644 Santiago Canyon Road, Silverado Canyon

714/628-7055

Emergency Management for Orange County is handled by the Sheriff's Department who maintains the control center in Silverado Canyon during an emergency

Riverside County Office of Emergency Services(OES)

Contact: Bonnie Reed, Supervisor Office of Emergency Services

909/955-4700

4080 Lemon Street, Suite 6, Riverside, CA 92502-1412

Emergency Duty Officer: Contact command center to page duty officer

909/940-6949

San Bernardino County Office of Emergency Services(OES)

<http://fire.co.san-bernardino.ca.us>

Contact: Denise Benson, Division Manager, 1743 Miro Way, Rialto, CA

909/356-3998

Emergency Services Officer: Dennis West

909/356-3967

State of California Office of Emergency Services(OES)

www.oes.ca.gov

Contact:

Southern California: Debbie Steffen, Regional Administrator

562/795-2900

Greg Renick, Information and Public Affairs

562/795-2941

4671 Liberty Avenue, Los Alamitos, CA 90720-5002

Statewide:

Tom Mullins, Director of information and Public Affairs

916/262-1843

Coordinates statewide emergency response efforts in the event of an emergency and provides earthquake preparedness, disaster assistance, damage assessment, hazard mitigation, geographic maps, photo lab, publications, emergency and public information through the media

Ventura County Office of Emergency Services(OES)

Laura Hernandez, Manager, Ventura County Sheriff Office of Emergency Services

805/654-2552

800 S. Victoria, Ventura, CA 93009

The Ventura County Sheriff's Department coordinates the emergency services for Ventura County.

Special Governor's Office Project

California Seismic Safety Commission

<http://www.seismic.ca.gov>

1755 Creekside Oaks Drive, Suite 100, Sacramento, CA 95833

916/263-5506

The commission investigates earthquakes, researches earthquake-related issues and reports, and recommends to the Governor and Legislature policies and programs needed to reduce earthquake risk. Provides decision makers and general public with cost-effective recommendations to reduce earthquake losses and speed recovery.

Specific Seismic Hazards

Liquefaction

<http://www.ce.washington.edu/~liquefaction/html/what/what1.html>

Liquefaction is a phenomenon in which the strength and stiffness of a soil is reduced by earthquake shaking or other rapid loading. Liquefaction and related phenomena have been responsible for tremendous amounts of damage in historical earthquakes around the world.

Landslides

http://landslides.usgs.gov/html_files/nlicsun.html

Tsunamis

<http://walrus.wr.usgs.gov/tsunami/>

Tsunami Warning Center

Thomas J. Sokolowski, Geophysicist-in-Charge
910 S. Felton Street, Palmer, Alaska 99645

<http://wcatwc.gov/main.htm>

907/745-4212

Volcanoes

<http://volcanoes.usgs.gov/>

Building Codes

<http://www.disastercenter.com/build.htm>

Maps and Other Points of Interest

Alquist-Priolo

<http://www.consrv.ca.gov/dmg/rghm/a-p/ap-intro.htm>

The Alquist-Priolo Earthquake Fault Zoning Act's main purpose is to prevent the construction of buildings used for human occupancy on the surface trace of active faults. The Act only addresses the hazard of surface fault rupture and is not directed toward other earthquake hazards

Fault Map of Southern California (SCEC)

<http://www.scecdc.scec.org/faultmap.html>

This page provides a “clickable” fault map of Southern California with specific information on each fault, including fault type, length, slip rate and possible magnitudes.

National Seismic Hazard Mapping Project (USGS)

<http://geohazards.cr.usgs.gov/eq/>

Seismic Hazard Zone Maps

<http://www.consrv.ca.gov/dmg/shezp/maps.htm>

The department’s Seismic Hazard Zone Mapping Program will ultimately chart areas prone to liquefaction (failure of water-saturated soil) and earthquake-induced landslides throughout California’s principal urban and major growth areas.