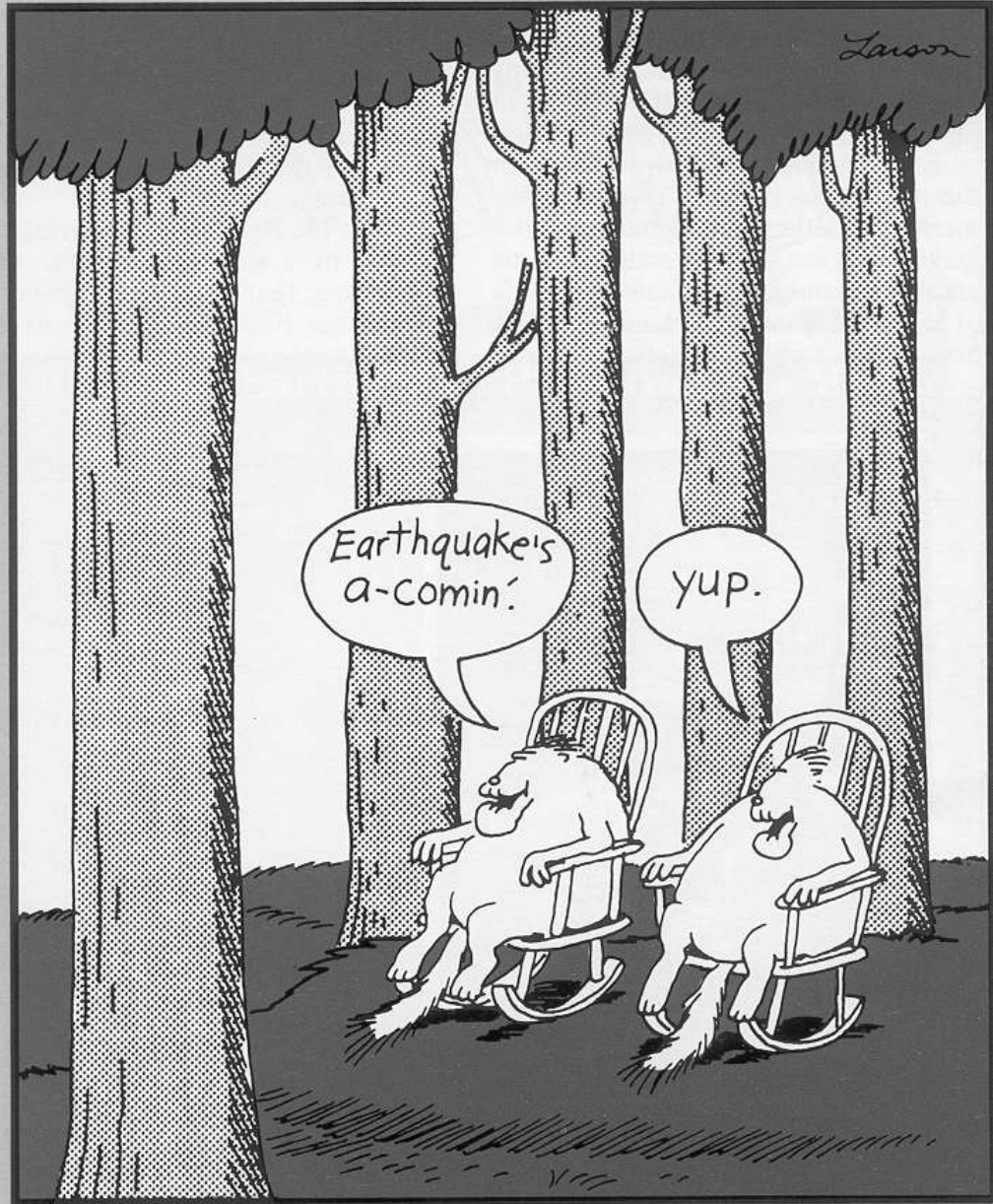


Cal EMA Earthquake Warning & Response Procedures



Kate Long
Earthquake
Program Deputy

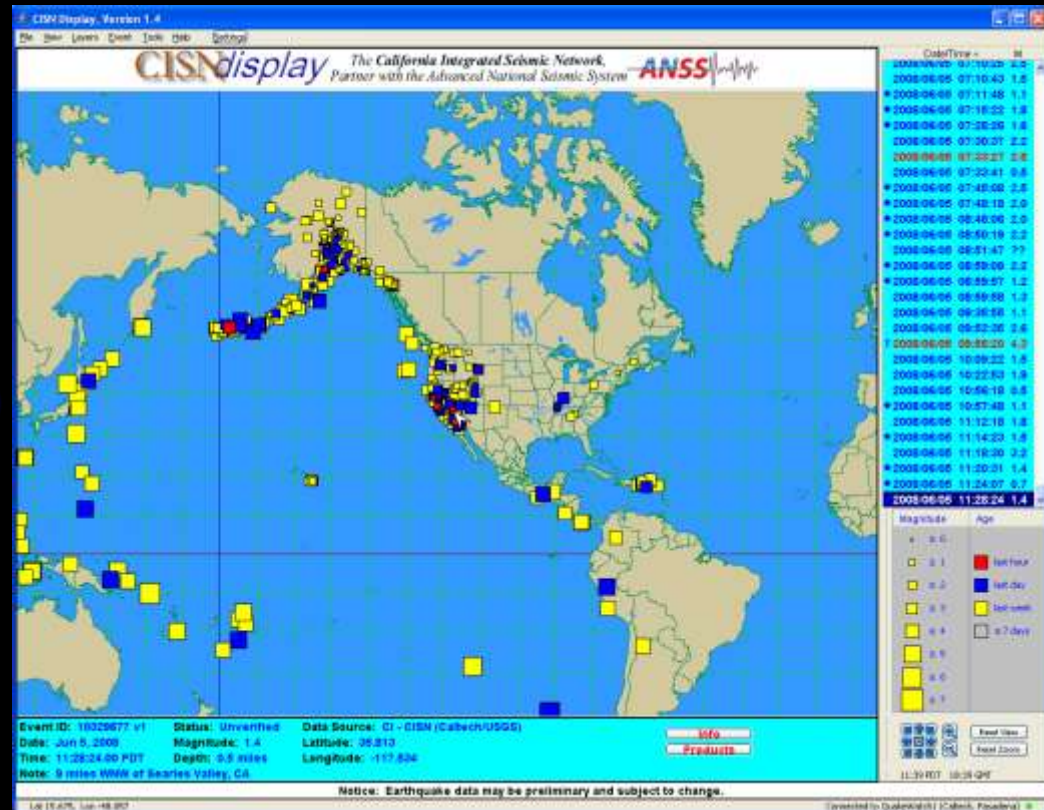


The mysterious, innate intuition of some animals

The FAR SIDE cartoon by Gary Larson is reprinted by permission of Chronicle Features, San Francisco.

How does Eq Duty Officer learn an earthquake has occurred?

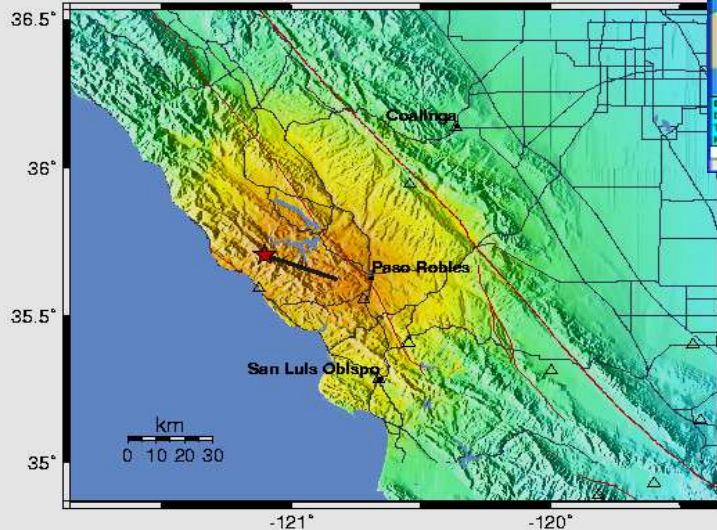
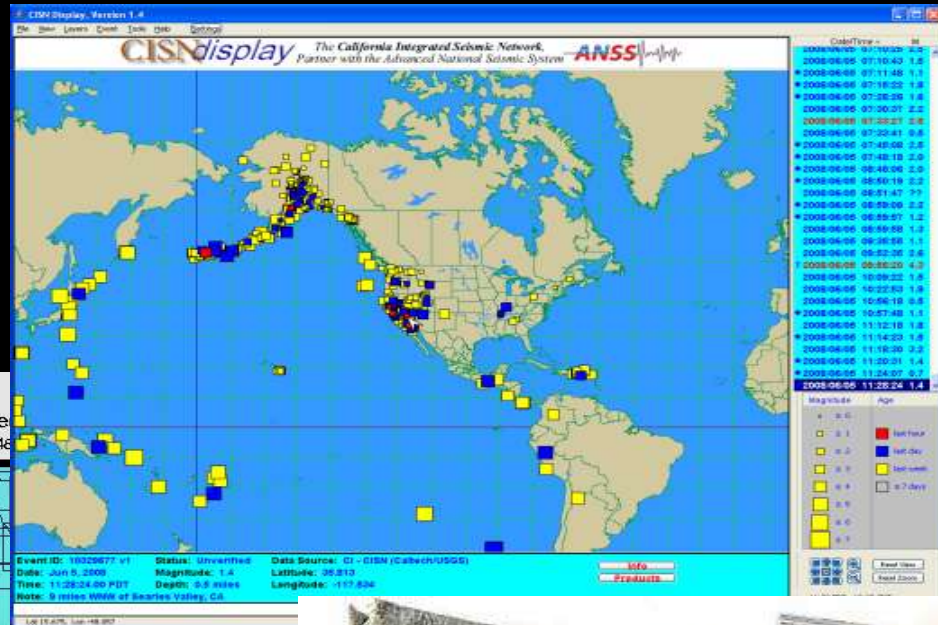
- Feel the shaking
- News media
- Earthquake Notification Systems (ENS-USGS)
- CISN Display
- CSWC page



Response Tools



CISN Rapid Instrumental Intensity Map Epicenter: 11 km NE of San Simón
Mon Dec 22, 2003 11:15:56 AM PST M 6.5 N35.71 W121.10 Depth: 7.6km ID:40146



PROCESSED: Tue Jan 6, 2004 04:59:22 PM PST.

PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	none	none	none	Very light	Light	Moderate	Moderate/Heavy	Heavy	Very Heavy
PEAK ACC (%g)	< .17	.17-1.4	1.4-3.9	3.9-9.2	9.2-18	18-34	34-65	65-124	>124
PEAK VEL (cm/s)	<0.1	0.1-1.1	1.1-3.4	3.4-8.1	8.1-16	16-31	31-60	60-116	>116
INSTRUMENTAL INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+

What Could Happen?

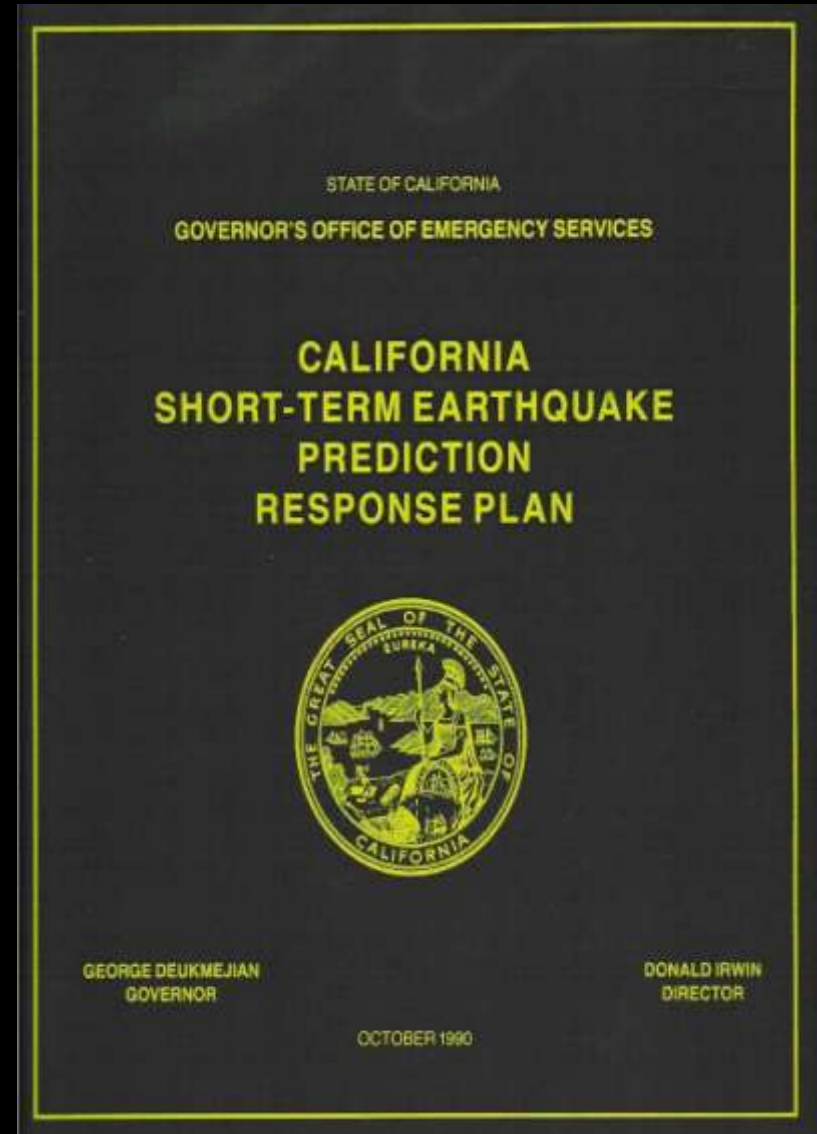
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Assessment of increased short-term seismic potential

- CEPEC addresses concern that event(s) may be followed by larger damaging EQ
- In 1990 developed California Earthquake Advisory plan to deal with these events
- Planning & Response under great uncertainty (low probability, high potential consequences)
- Earthquake Advisory Plan



CA Earthquake Advisory Plan

- Provides for Advisories post-event, using CEPEC advice about increased short-term possibility of subsequent damaging EQ's
- Promotes increased operational readiness
- Provides guidance for short-term mitigation/preparedness measures

Advisory Plan applies to

Agencies/Departments which

- Have emergency public safety functions
- Have Personnel/Resources in the area within the Advisory
- Maintain facilities which, if damaged could threaten public safety
- Provide an essential public service (utilities, communications)

Advisory Plan Notification – Four Elements

1. **Advisory** to State Agencies and Operational Areas within area of enhanced risk
2. **Notification of Advisory** to all State Departments, Federal Agencies and other counties within state
3. **Earthquake Advisory News Release**
4. **End of Earthquake Advisory Period** (usually within 3-5 days)

Advisory Plan also contains

- Notification Procedures/Checklists
- Short-Term Mitigation and Preparedness Checklists
 - General Facilities
 - EOCs
 - Comms Systems
 - Vehicles
 - Personnel
 - Utilities
 - Hospitals
 - Schools
 - Shelters
 - Public Information