

Rocky Mountain Geographic Science Center

# Natural Hazards Monitoring

## Customized Internet Mapping Applications

The United States Geological Survey (USGS) Rocky Mountain Geographic Science Center (RMGSC) has implemented several sophisticated Web-based applications to support natural hazards monitoring and emergency response. Each near-real-time application combines easy access to dynamic natural hazards information, geospatial data, and unique functionality to help monitor and respond to natural hazards events.

Development of these applications relies on the integration, display, and dissemination of near-real-time dynamic natural hazards information and key geospatial data. In addition, the advanced functionality in these applications provides state of the art decision support tools for federal agencies and emergency responders.



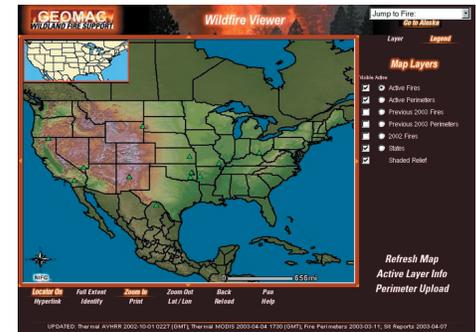
## Natural Hazards Support System



[nhss.cr.usgs.gov](http://nhss.cr.usgs.gov)

The Natural Hazards Support System (NHSS) is being developed by the United States Geological Survey RMGSC to aid in monitoring and responding to all types of natural hazards. The primary goal of NHSS is to provide a comprehensive view containing all current natural hazard events combined with geospatial information. This Web-enabled combination of information can aid both the federal and emergency response community in planning for response and recovery activities. NHSS currently contains dynamic data feeds from a wide variety of sources such as the National Earthquake Information Center (earthquakes), the National Oceanic and Atmospheric Administration (weather), the National Hurricane Center (hurricanes) and the National Interagency Fire Center (wild fires). This application provides both an overview of all natural hazards events in a single area, and direct access to the source agency site for more detailed information on each event.

## Geospatial Multi-agency Coordination (GeoMAC) Wildland Fire Response Application



[geomac.gov](http://geomac.gov)

GeoMAC is a real-time Internet mapping system that allows wildland fire managers and the public to pinpoint the location and size of existing wildfires using geospatial information. GeoMAC is a collaboration between federal, state, and local stakeholders.

Each of these sites not only advance the state-of-the-art in Web-based natural hazards monitoring and response, they also widen the role of USGS with our federal partners.

### For more information:

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USGS - Natural Hazards Support System

**USGS** Natural Hazards Support System

USGS Home  
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Zoom In Zoom Out Last Extent Full Extent Find Place Pan Identify Clear Hyperlink Print Map Help

Map Mode: North America Global  
Menu Mode: Layers Legend  
Active Layer: Earthquakes

Visible Active

**Transportation**

- Airports
- Interstates

**Utilities**

- Pipelines

**Orthoimagery**

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Station 46404 - D128

Owned and maintained by National Data Buo Center  
2.5-meter discus buoy  
DART payload  
45.859 N 128.778 W (45°51' 32" N 128°46' 41" W)

[Important Notice to Mariners](#)

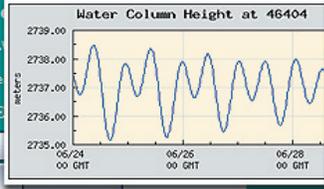
[Meteorological Observations from Nearby Stations and Ships](#)

[Latest Satellite Wind Map for this Area](#)

[DART Program Description](#)



**Water Column Height at 46404**



Accessibility | FOIA | Privacy | Policies and Notices  
U.S. Department of the Interior | U.S. Geological Survey  
URL: <http://nhss.usgs.gov>  
Application Contact: [Application Manager](#)  
Last Modification: Tuesday, February 15, 2005 @ 01:29 PM MST

Map: -135.45, 50.42 -- Image: 17, 2

**Recent Earthquake Activity in the USA**

**Magnitude 4.8 - NORTHERN CALIFORNIA**  
**2005 June 26 18:45:57 UTC**

**Preliminary Earthquake Report**  
California Integrated Seismic Network  
USGS/ Caltech/ CGS/ UCB/ UCSD/

A light earthquake occurred at 18:45:57 (UTC) on Sunday, June 26, 2005. The magnitude 4.8 event has been located in Northern California. The hypocentral depth was estimated at 7.1 km (4.4 miles). (This event has been reviewed by a seismologist.)

**Magnitude 4.8**  
**Date-Time** Sunday, June 26, 2005 18:45:57 UTC  
= Coordinated Universal Time  
Sunday, June 26, 2005 12:06 PM  
= local time at epicenter

**Location** 39.310°N, 120.06°W  
**Depth** 7.1 km (4.4 miles)  
**Region** NORTHERN CALIFORNIA

**Distances**  
7 km (4 miles) NNW (348°) from Tahoe Vista, CA  
9 km (5 miles) NNW (334°) from Kings Beach, CA  
12 km (8 miles) ESE (107°) from Truckee, CA  
32 km (20 miles) SW (221°) from Reno, NV  
147 km (92 miles) NE (55°) from Sacramento, CA

**Location** horizontal +/- 0.3 km (0.2 miles); depth +/- 1.1 km (0.7 miles)  
**Uncertainty**  
**Parameters** Nst=250, Nph=250, Dmin=4 km, Rmss=0.07 sec, Cp=101°  
M<sub>max</sub>=regional moment magnitude (M<sub>max</sub>)

INCIDENT NAME	ST	UNIT	SIZE	% CTN	EST CTN	TOTL PERS	AV	ENG	HELI	STRC LOST	SSS CTD	ORIGIN OWN
CAVE CREEK COMPLEX	AZ	TNF	116,550	25	UNK	850	23	27	12	11	3.44M	N/A
THREE FIRE COMPLEX	AZ	TNF	19,370	40	6/30	387	7	25	6	1	1.25M	N/A
SNAKE RIDGE	AZ	ASF	1,800	NR	7/31	12	0	0	0	0	5K	ST
MATUCK	AZ	TCA	886	80	7/1	63	3	0	2	0	NR	BIA
HINDU	AZ	TCA	1,000	95	6/29	71	3	0	2	0	NR	BIA
PLAIN TANK	AZ	TCA	398	90	UNK	20	1	0	0	0	NR	BIA
HUMBURG	AZ	AZS	3,136	80	UNK	232	7	1	0	0	250K	ST
NORTH GILA COMPLEX - WFU	NM	GNF	13,431	N/A	N/A	103	4	1	0	0	450K	FS
BLACK RANGE COMPLEX - WFU	NM	GNF	20,500	N/A	N/A	35	2	3	0	0	374K	FS
PERKINS COMPLEX	AZ	PHD	21,600	100	---	89	0	3	2	0	1.60M	N/A

PHD= Phoenix Field Office, Bureau of Land Management

Detailed situation reports can be selected to display dynamically updated information about a user-specified natural hazard.