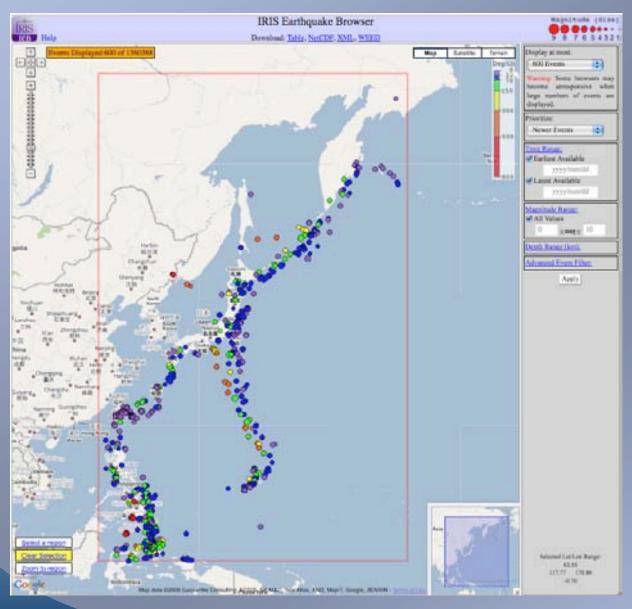
# IRIS Active Earth Display Cascadia and Basin and Range Content Modules



Patrick McQuillan
Education and Outreach Specialist
IRIS

#### IRIS Earthquake Browser



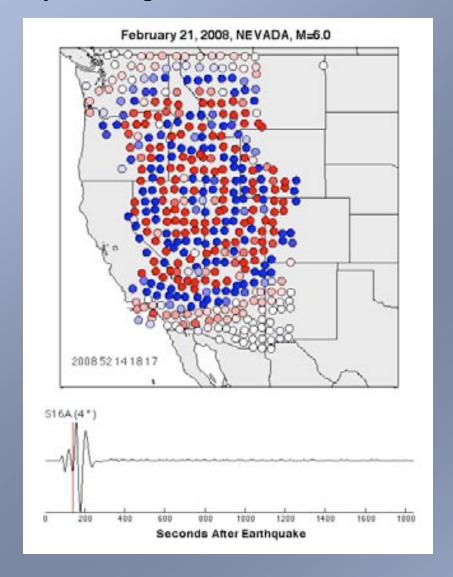
Explore regional Seismicity

Discover Plate Boundaries

Examine earthquake databases



#### USArray Earthquake Wave Visualizations



Watch actual earthquake waves move across the USArray.

New animations available Within hours of every large Earthquake occurrence.

http://www.iris.edu/hq/programs/education\_and\_outreach/visualizations



An interactive, customizable, real-time earth science display and educational tool for National Parks, Museums, University Lobbies, Libraries, Schools, Planetariums, Aquariums, ...





An interactive, customizable, real-time earth science display and educational tool for National Parks, Museums, University Lobbies, Libraries, Schools, Planetariums, Aquariums, ...





# **Iris Active Earth Displays**

- Inspire public interest in the science of seismology and related fields
- Demonstrate that we live on an active planet
- Highlight active research and geophysics data
- Written for general museum audience
- Easily customizable
- Automatically updated
- Over 75 accounts with over 50,000 annual users









Free:

Operating System software
IRIS developed content
-70 pages and growing
Content from users network
Free account through IRIS website
Online forum

#### You Provide:

Windows or Mac computer Internet connection 1280 x 1024 touch screen monitor

#### **Optional:**

One screen table top kiosk
One screen floor kiosk
Two screen floor kiosk







#### **Easily Customized:**

Choose content pages
Add links to your web pages
Create new content pages

#### Interactive or non-interactive:



Touch screen monitor

Monitor and mouse/trackball

Monitor behind glass no mouse
-auto advance



# Where can you find Iris Museum Displays?

American Museum of Natural History, New York City
Smithsonian Museum of Natural History, Washington, DC
Franklin Institute, Philadelphia, PA
Birch Aquarium, Scripps Institution of Oceanography, La Jolla, CA
Carnegie Museum of Natural History, Pittsburgh, PA
New Mexico Museum of Natural History, Albuquerque, NM
Maryland Science Center, Baltimore, MD
Sunset Crater National Monument, Flagstaff, AZ
National Science Foundation Headquarters, Washington, DC
Congressman and Senators offices, Capital Hill, Wash, DC
State Geologists Visitor Centers in current USArray states
Amundsen-Scott Station, The South Pole, Antarctica
Your National Park, planetarium, museum, visitor center,
library, school



### **Active Earth Software**

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#### **Cascadia Module**

#### ACTIVE EARTH



Touch a scene to explore how it can be linked to danger.



Earthquakes can shake up cities without warning, reminding us that we are living on an active Earth.



The majestic Cascades volcanoes formed by one tectonic plate sinking under another.

#### DANGER BENEATH THE PACIFIC MORTHWEST



Tsunami waves from undersea earthquakes have drowned the coast of the Pacific Northwest in the past.



The Coast Ranges would not exist if two tectonic plates were not smashing together beneath them. 4 Chapters

16 pages

Live data

Animations

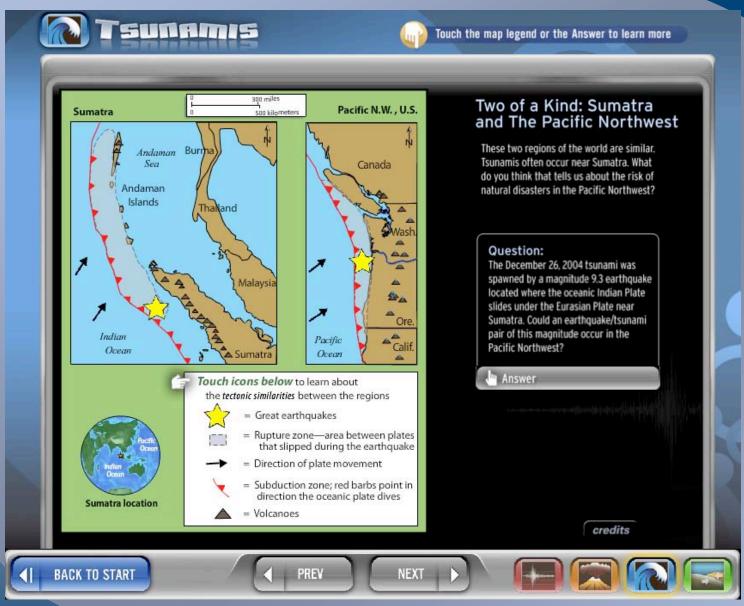


#### **Cascadia Module**





#### Cascadia Module









Look for 🕞 or links to learn more



Continental rifting results in the development of long, parallel mountain ranges and valleys that have had dramatic impact on the history of the Basin and Range Province.

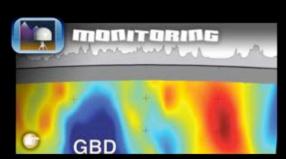


As the region rifts, the landscape shifts, sometimes with violent consequences.

EXPLORING THE BASIN AND RANGE



As North America rips apart, rising hot mantle melts and spews lava across parts of the Basin and Range.



Scientific programs measure the moving landscape of the Basin and Range Province and help us appreciate how, when and why earthquakes and volcanic eruptions occur. 4 Chapters

16 pages

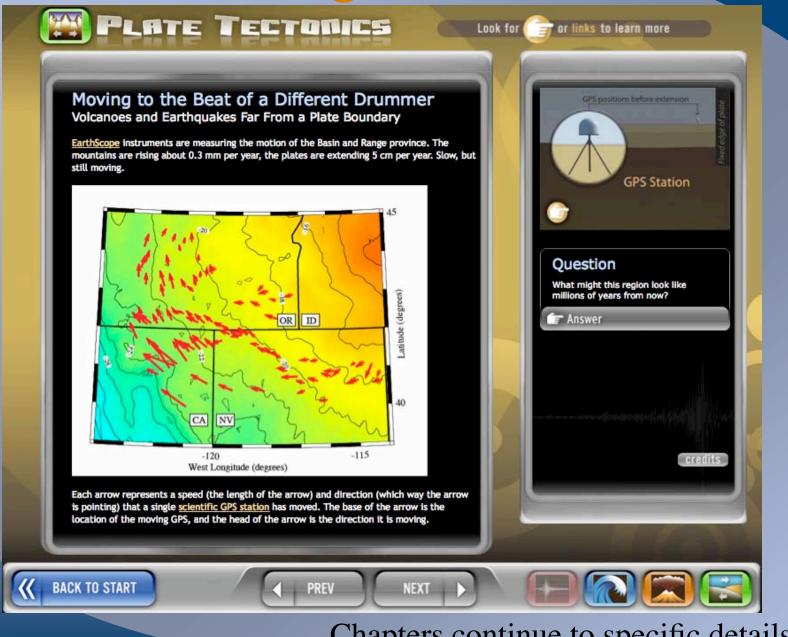
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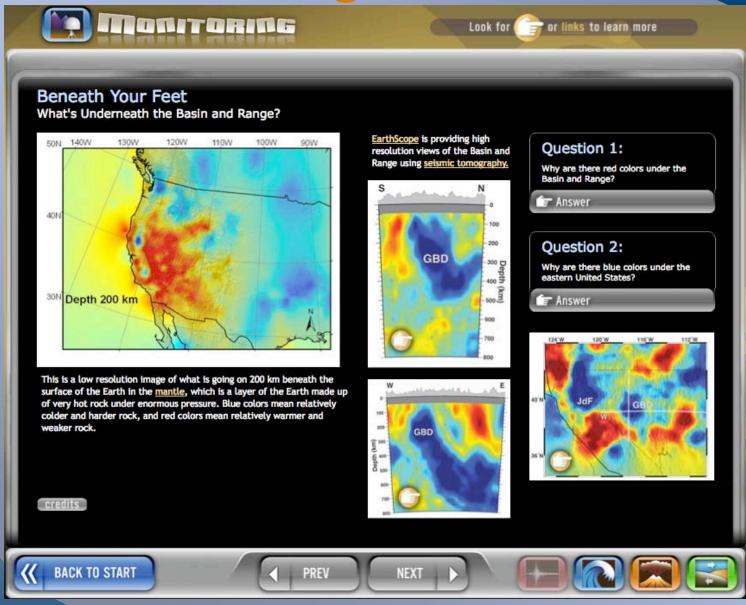






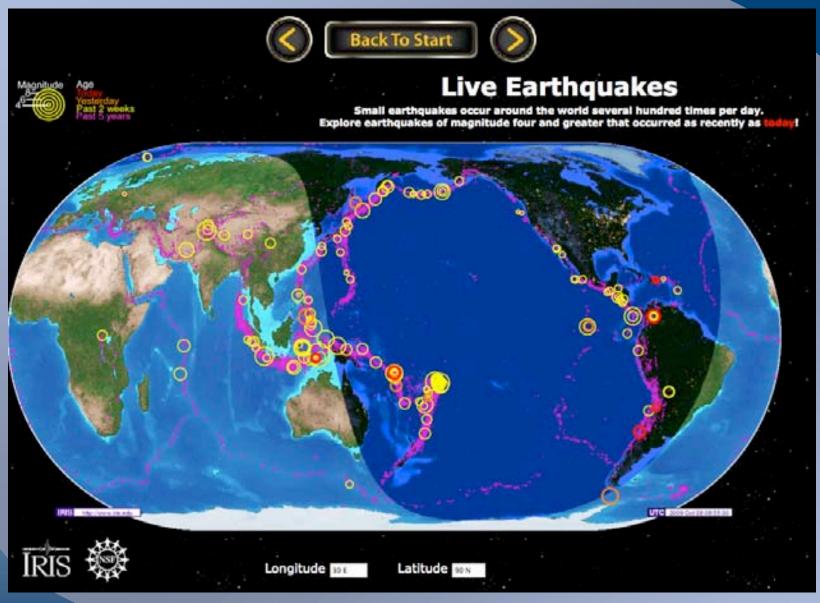








# **General Seismology Pages**





# **Active Earth Display Content Sets:**

**General Seismology Africa Array** Cascadia **Basin & Range Province** EarthScope/USArray San Andreas **PoleNet Colorado Plateau** YellowStone **New Madrid** Rapid Response EQ Page **Your Content** 

**Available Available Available December 2009 January 2010** Spring 2010 Spring 2010 **Summer 2010 Fall 2010** Spring 2011 **December 2009 Tomorrow** 

