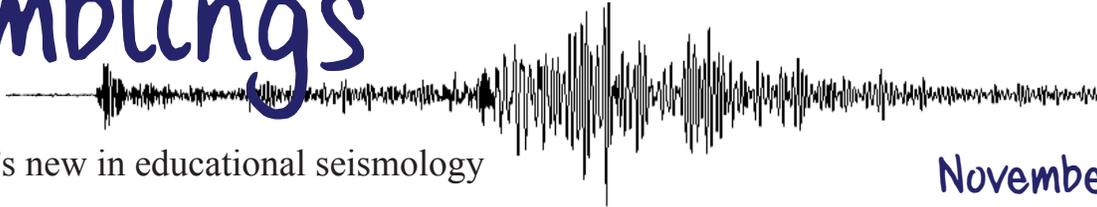


Rumblings



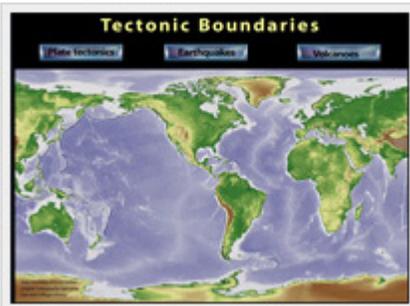
...what's new in educational seismology

November 2009

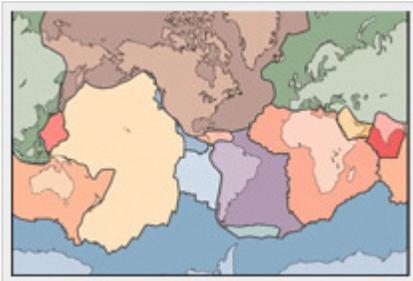
New! Interactive!

The IRIS animation collection has grown to include Interactive Flash Animations. These animations span topics from Earthquakes and Volcanoes to concepts in the Basin and Range to the Pacific Northwest.

http://www.iris.edu/hq/programs/education_and_outreach/animations



Rollover buttons align earthquakes and volcanoes with tectonic plate margins.



Rollover plates to reveal the names of the major tectonic plates.



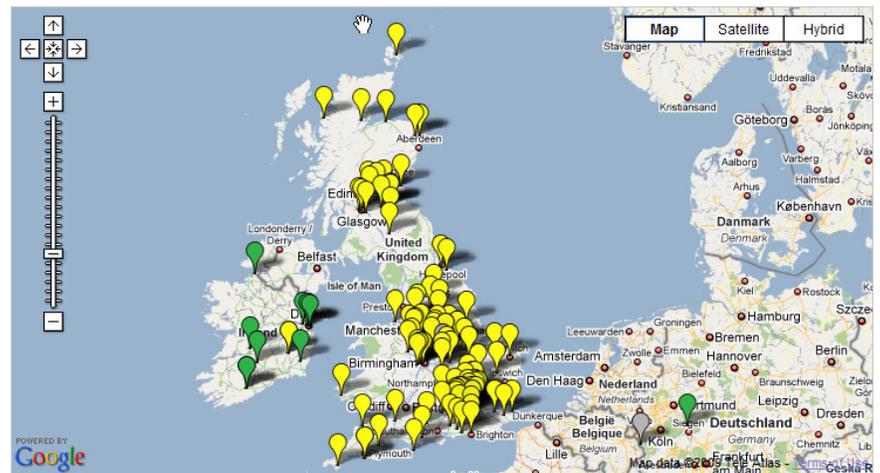
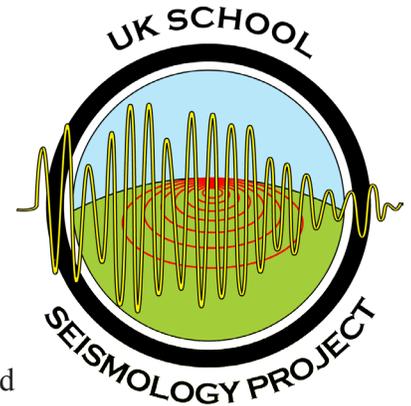
Basin and Range Earthquakes

Going International!

The IRIS Seismographs in Schools program has just completed an 8 month project with the British Geological Survey (BGS) and the Dublin Institute for Advanced Studies (DIAS). The end result of this collaboration is an IRIS Seismographs in Schools website that now features data from British and Irish schools. Foreign schools are grouped by regional network and assigned a distinct color so they are easy to spot.

To view all of the new schools you can visit:

<http://www.iris.edu/hq/ssn/schools>



BGS schools are Yellow and DIAS schools are green. Be sure to compare data from these schools for the next earthquake you record. Past data from the BGS has also been imported, so you can now view a wider range of data for earthquakes.

IRIS Seismographs in Schools Program
<http://www.iris.edu/hq/sis>



Advanced App...

The IRIS SIS website now serves as a platform for educators who want to start their own regional network anywhere in the world.

Each regional network receives customized upload and register forms with their logo. Any data that is uploaded to the SIS website can also be pulled back down through a REST API. This means that the majority of pages on the IRIS website can be duplicated and customized tailored to meet the needs of a regional network.

The REST API is available at http://www.iris.edu/hq/ssn/api_doc

and can also be used by anyone to repurpose the majority of data stored on the IRIS SIS website. Information on schools, earthquakes, and .SAC files can be retrieved by calling the various functions of the API.

The API can be used in a wide variety of ways such as listing your recent data uploads on your school website, listing recent earthquakes, or checking to see when other stations have uploaded data for a specific event.

Need Help?

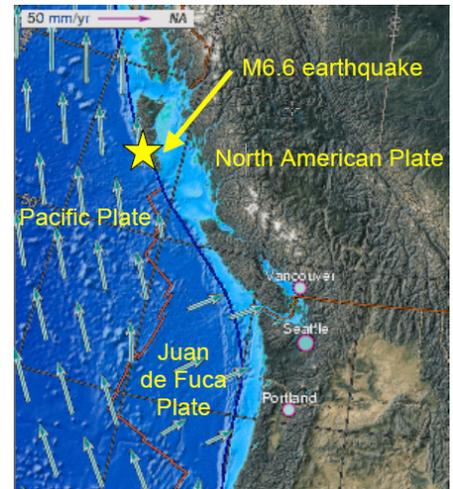
Post your question or problem in our forum.

Or contact us at sishelp@iris.edu

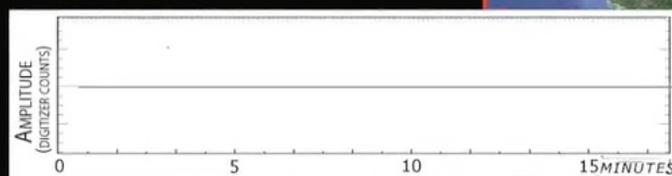
Earthquakes!

The November 17th magnitude 6.6 Queen Charlotte Islands Earthquake offered an opportunity to explore the varied paths that body wave energy travels to reach a seismic station.

The first P wave energy arrives to the UPOR AS-1 as Pn. Pn is a phase only seen in earthquakes that are nearby to the recording station. While P-wave energy travels a curved path through the mantle, Pn travels in the upper mantle just below the Mohorovicic discontinuity (Moho) at the base of the crust.



Magnitude 6.6 earthquake
10 km below Queen Charlotte Island
November 17, 2009.
Recorded by Station UPOR in Portland OR
8.72° (968 km, 600 miles) away



This Pn path is highlighted in an animation created for the earthquake which can be found on the IRIS E&O animation page.

http://www.iris.edu/hq/programs/education_and_outreach/animations