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Experiment 8 Locating An Epicenter

possible location to some degree, but at least three seismograms are required in order to accurately plot the epicenter. In this lab, you will. You will use the P and S wave arrival time difference to determine distance to epicenter, then use a compass to record the distance radius measured by each station. Remember, accuracy is important.

Locating an Epicenter - Manchester High School

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Add more stations to pinpoint the epicenter location. Repeat steps 2-4 for additional stations until you are confident about the location of the epicenter. When making additional seismograms, examine the data you have already plotted on the station map and think carefully about which station will provide the most valuable additional information.

Locating the Epicenter of an Earthquake | Science Project

To find those epicentral distances, seismologists construct travel time curves, which plot distance versus time. Since Earth is a sphere, "Great Circle Distance" is usually calculated using the latitudes and longitudes of different stations and this equation:
$$\cos(D) = (\sin a \sin b) + (\cos a \cos b \cos |c|)$$

Steps to Locating the Epicenter of an Earthquake : 8

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Steps ...

The faster the P-wave travel time, the _____ to the epicenter. 6. List in order the 3 cities seismologists would detect the earthquake in order from first to last? 7. When you are trying to locate an epicenter, why is it necessary to know the distance from the epicenter for three recording stations? 8.

LAB: Locating An Epicenter - Norwich High School

To locate the epicenter of an earthquake, you must estimate the time interval between the arrivals of the earthquake's P and S waves (the S-P interval) on the seismograms from three different stations. The interval is measured to the closest second and then a graph is used to convert the S-P interval to the epicentral distance.

Finding Epicenters and Measuring Magnitudes Worksheet

Title: Microsoft Word - LAB Locating Epicenters.docx Author:

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Kaitlin Moore Created Date: 11/3/2016 11:53:44 AM

LAB Locating Epicenters - NYS Earth Science

This is a video showing you how to work through some of the problems concerning the location of earthquake epicenters.

Locating the Epicenter Lab.avi

You may type in the answers, but you will need to print this lab report to draw the epicenter. In this laboratory experiment, you will be working as an amateur seismologist to locate the epicenter of a fictional ... Step 3: Locating the Epicenter 1. Locate a seismograph station on the map. 2. Locate the scale on the map.

Graded Assignment: Lab Report 2

The simulation renders three circles on a map and directs students to find the epicenter. Success is figuring out that the

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epicenter is just off the coast of Chile, where the three circles intersect. To make a magnitude determination, two measurements are needed: the S-P interval (already determined earlier in the tutorial) and the maximum amplitude of the seismic waves.

Earthquakes Living Lab: Finding Epicenters & Measuring

...

Here is the link to the activity itself: goo.gl/3kB29 Students learn how to determine the epicenter of an earthquake using seismographic data.

Locating the Epicenter of an Earthquake - YouTube

one point, which is the epicenter. (If the three circles do not intersect at a unique point, choose a point equidistant between the three circles.) The location of the epicenter is: Latitude between 30oN and 40oN Longitude between 110oW and 13oW

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Need to indicate N and W, and report correct one for each, not have them switched. 4.

EARTHQUAKES: Epicenter Determination, Seismic Waves, and ...

Make Your Own Seismograph and Find Out! (Earthquakes)
Seismographs are important tools when it comes to helping scientists measure earthquakes. Children can make their own seismographs and even test them by following these directions.

STEM-Works - Earthquakes Activities

The point of origin of an earthquake is called its focus and the point on the earth's surface directly above the focus is the epicenter. You are to locate the epicenter of an earthquake by making simple measurement on three seismograms that will be sent to you by the Virtual Earthquake program.

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Geology Labs Online - Virtual Earthquake

Using a drafting compass (or alternately, tie a string to a pencil, cut the string the length of the distance to the epicenter, pin it at the station, and draw a circle, with the pencil stretched out the full distance of the string), you will create the circle.

13.5: Lab Exercise (Part A) - Geosciences LibreTexts

This zip file contains materials a for middle school science lesson on earthquake epicenters and how to locate an epicenter using triangulation as part of an Earth science unit. The unit was designed for 7th graders in NYC. Includes: SMARTboard .notebook lesson presentation (11 slides) 1 lab shee...

Earthquakes: Locating the Epicenter - Lesson Presentation ...

Locating an Epicenter Scientists have come up with a number of ways to figure out the location of an epicenter. The simplest

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requires the positioning of seismographs, equipment that measure the...

What is the Epicenter of an Earthquake? - Definition ...

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