

Lab Activity 9: Locating an Earthquake

After preparing for this activity, introduce students to the concept of triangulation. The point is to show that you can locate a point if you know the distance from several known locations (triangulation).

Read the following passage about the method of triangulation and answer the following questions. (Source: Adapted from <https://www.britannica.com/science/earthquake>.)

Part A: Complete the first two steps of the triangulation method. Use the following information:



1. What is the magnitude of the earthquake?
2. What is the location of the epicenter of the earthquake?
3. What is the distance from the epicenter to the stations?

Part B: Complete the first two steps of the triangulation method. Use the following information:

1. Complete the first two steps of the triangulation method. Use the following information:

Station Name	Station Latitude (N)	Station Longitude (W)	Distance from Station (km)	Distance from Station (km)
Seattle, WA	47.6120	122.3300		
Denver, CO	39.7392	104.9903		
Los Angeles, CA	34.0522	118.2437		

Earthquake Location Lab Answers

Oak Ridge National Laboratory



Earthquake Location Lab Answers:

Earthquake Engineering Research Center Library Printed Catalog University of California, Berkeley. Earthquake Engineering Research Center. Library, 1975 **Strong Motion Instrumentation for Civil Engineering Structures** Mustafa Özder Erdik, Mehmet Çelebi, Vladimir Mihailov, Nurdan Apaydin, 2012-12-06 Most of the existing strong motion instrumentation on civil engineering structures is installed and operated as federal state university industry or private applications in many cases operated as a closed system This hampers co operation and data exchange hampering the acquisition of strong motion and structural data sometimes even within a single country There is a powerful need to inform engineers of existing strong motion data and to improve the accessibility of data worldwide This book will play a role in fulfilling such a need by disseminating state of the art information technology and developments in the strong motion instrumentation of civil engineering structures The subject has direct implications for the earthquake response of structures improvements in design for earthquake resistance and hazard mitigation Readership Researchers in earthquake engineering engineers designing earthquake resistant structures and producers of strong motion recording equipment *Mechanics of Earthquake Faulting* A. Bizzarri, S. Das, A. Petri, 2019-07-19 The mechanics of earthquake faulting is a multi disciplinary scientific approach combining laboratory inferences and mathematical models with the analysis of recorded data from earthquakes and is essential to the understanding of these potentially destructive events The modern field of study can be said to have begun with the seminal papers by B V Kostrov in 1964 and 1966 This book presents lectures delivered at the summer school The Mechanics of Earthquake Faulting held under the umbrella of the Enrico Fermi International School of Physics in Varenna Italy from 2 to 7 July 2018 The school was attended by speakers and participants from many countries One of the most important goals of the school was to present the state of the art of the physics of earthquakes and the 10 lectures included here cover the most challenging aspects of the mechanics of faulting The topics covered during the school give a very clear picture of the current state of the art of the physics of earthquake ruptures and also highlight the open issues and questions that are still under debate and the book will be of interest to all those working in the field

Applications of Research from the U.S. Geological Survey Program, Assessment of Regional Earthquake Hazards and Risk Along the Wasatch Front, Utah Paula Gori, 1993 This report documents how pertinent information about earthquake hazards along the Wasatch Front Utah was transferred to researchers public officials design professionals land use planners and emergency managers as part of the U S Geological Survey s effort to mitigate the effects of earthquake hazards **U.S. Geological Survey Professional Paper**, 1984 **Estimation of Response Spectra and Peak Accelerations from Western North America Earthquakes** D. M. Boore, 1994-05 Charts and graphs Hands-On General Science Activities With Real-Life Applications Pam Walker, Elaine Wood, 2008-04-21 In this second edition of Hands On General Science Activities with Real Life Applications Pam Walker and Elaine Wood have completely revised and updated their must have

resource for science teachers of grades 5-12. The book offers a dynamic collection of classroom ready lessons, projects, and lab activities that encourage students to integrate basic science concepts and skills into everyday life. **U.S. Geological Survey Open-file Report**, 1986. *Earthquake Research in NOAA, 1970-1971* James Taggart, 1972. **National Earthquake Hazards Reduction Program, Summaries of Technical Reports, Volume XXVI**, 1988. **NOAA Technical Report ERL**. United States. National Oceanic and Atmospheric Administration, 1973. *Energy Insider*, 1980. Strong Ground Motion Seismology Mustafa Erdik, M. Nafi Toksöz, 1987-07-31. Proceedings of the NATO Advanced Study Institute, Ankara, Turkey, June 10-21, 1985. Lawrence Livermore National Laboratory and Sandia National Laboratories, Livermore Sites, 1982. Neotectonics in Earthquake Evaluation E. L. Krinitzky, David B. Slemmons, 1990. This volume addresses recent developments in the principal seismically active regions of the United States: the Pacific Coast, the western mountain area, the New Madrid area, New England, and the southeastern United States, including Charleston, South Carolina. ESSA Technical Report ERL-ESL, 1970. **Simple Solutions** Patrick Kenji Takahashi, 2007-08-30. *Simple Solutions For Planet Earth* is a scientific book written in a popular style for the average reader. You have read about Peak Oil and Global Climate Warming and complained about 4 gallon gasoline, but how really serious are these headlines and annoyances? The author has worked his entire career on the science, technology, education, administration, and politics of these subjects and crystallizes this complex field into understandable elements, providing simple solutions for humanity. Does it make sense for the renewable energy budget of the Federal Government to be about 1 billion year when oil's annual tax incentives and government programs for the oil industry are supposedly in the range between 38 billion and 115 billion, although Lester Brown says 210 billion in 2005? Oil farm subsidies alone in 2004 cost taxpayers 16.2 billion. Our country spends 12 billion a month or 144 billion year on the Iraq and Afghanistan wars, ostensibly to protect oil, only to raise prices. The author's long experience with the Greenhouse Effect has led him to believe that methane, not carbon dioxide, could well be the critical gas of concern, for there is potential for global warming to cascade into what he terms the Venus Syndrome. The closing chapter speculates on a hypothesis regarding mega tsunamis, 100 meter waves from landslides. While simple solutions are suggested, the problem is the inability of our civilization to agree on a workable strategy, which is further weakened by the lack of will on part of the general populace. Thus, the reader is urged to help make that crucial difference. Instructions and examples are provided on how to attain Rainbow Vision to carry out this mission for a better Planet Earth. The simplest solution is for everyone to join in on the effort. **Energy Research Abstracts**, 1992-07. **Laboratory Manual in Physical Geology** American Geological Institute, 2000. For majors and non majors in undergraduate lab courses for Introductory Geology and Physical Geology. The best selling lab manual for undergraduate lab courses in Physical Geology or Introductory Geology for majors and non majors. With contributions from more than 120 highly regarded geologists and geoscience educators and an exceptional illustration program by Dennis Tasa, this user friendly laboratory manual focuses students on the basic principles

of geology and their applications to everyday life in terms of natural resources natural hazards and human risks This edition pushes the frontiers of geologic education even further with the inclusion of four new computer based labs Inventory of Current Energy Research and Development Oak Ridge National Laboratory,1972

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