

Name: _____ Period: _____ Date: _____

Lab: Virtual Earthquake

I. Problem:

How does one find the epicenter and magnitude of an earthquake using a seismogram?

II. Hypothesis:

The epicenter will be located using travel times of _____ and _____ waves. The magnitude will be found using the maximum amplitude of _____ waves and a Richter Nomogram.

III. Materials:

Website: <http://www.sciencecourseware.org/VirtualEarthquake/VQuakeExecute.html>

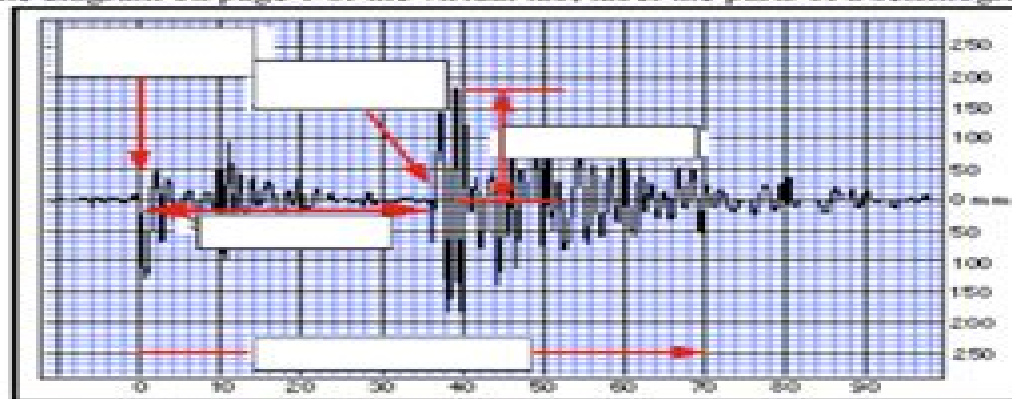
IV. Procedure:

1. Navigate to the laboratory website. If you don't want to type in the long address above, you can get to the website this way:

<http://sallyholl.com/science/rhs>

→ Study Help → Semester 2 → Earthquakes → Lab: [Virtual Earthquake](#)

2. Using the diagram on page 1 of the virtual lab, label the parts of a seismogram:



4. Follow the instructions on the virtual lab website and finish the lab.

5. When you are finished, print out the "Virtual Seismologist Certificate of Completion" and staple it to this worksheet. Be sure to include the data table below the certificate also.

V. Conclusions:

(*HINT: Use the table below your "Certificate of Completion" to answer these questions.*)

1. What is the difference between your predication and the actual magnitude of the earthquake? (*Hint: Subtract your magnitude from the actual magnitude.*)

2. Where was the source of the greatest error in your predictions: the S-P interval, the epicentral distance, or the maximum S-wave amplitude?

Virtual Earthquake Lab Answer Key

Steven J. Whitmeyer

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Virtual Earthquake Lab Answer Key:

Journal of Geoscience Education, 1996 Google Earth and Virtual Visualizations in Geoscience Education and Research Steven J. Whitmeyer, 2012-01-01 GSA Special Paper 492 consists of 35 papers that collectively synthesize the development and current uses of Google Earth and associated visualization media in geoscience education and research. Chapters focus on Google Earth and related tools such as SketchUp, Google Fusion Tables, GigaPan, and LiDAR. Many of these papers include digital media that illustrate and highlight important themes of the texts. This volume is intended to document the state of the art for geoscience applications of geobrowsers such as Google Earth along with providing provocative examples of where this technology is headed in the future. The Seismic Design Handbook Farzad Naeim, 2012-12-06 This handbook contains up to date existing structures computer applications and information on planning analysis and design seismic design of wood structures. A new and very useful feature of this edition of earthquake resistant building structures. Its intention is to provide engineers, architects, and the inclusion of a companion CD ROM disc developers and students of structural engineering containing the complete digital version of the handbook itself and the following very engineering and architecture with authoritative yet practical design information. It represents important publications, an attempt to bridge the persisting gap between UBC 1997, 2000 Structural advances in the theories and concepts of Comparisons and Cross References, ICBO earthquake resistant design and their 2000 implementation in seismic design practice. 2 NEHRP Guidelines for the Seismic Rehabilitation of Buildings FEMA 273 Federal Emergency Management Agency composed of 22 experts from industry and universities recognized for their knowledge and 1997 extensive practical experience in their fields. 3 NEHRP Commentary on the Guidelines for They have aimed to present clearly and the Seismic Rehabilitation of Buildings FEMA 274 Federal Emergency Management Agency concisely the basic principles and procedures pertinent to each subject and to illustrate with Management Agency 1997 practical examples the application of these 4 NEHRP Recommended Provisions for principles and procedures in seismic design. Seismic Regulations for New Buildings and practice Where applicable the provisions of Older Structures Part 1 Provisions various seismic design standards such as FEMA 302 Federal Emergency Management Agency 2000 UBC 97 FEMA 273 274 and ATC 40 Management Agency 1997. Seismic Interferometry Deyan Draganov, Johan O. A. Robertsson, 2008 Seismic Interferometry History and Present Status SEG Geophysics Reprint Series No 26 shows that developments in seismic interferometry, the methodology of generating new seismic responses by crosscorrelation, have taken an enormous flight since the beginning of this century. In 2006 the editors of this volume compiled a supplement to Geophysics dedicated to this new branch of science. The 22 papers of the well received supplement recognized by one award for best paper and two honorable mentions for best paper in Geophysics and more than 100 citations in the first 20 months form the basis for this reprint volume. The editors have added 50 papers from SEG and other journals including Science, Physical Review, and Geophysical Research Letters. The book contains an editors introduction with

extensive references and chapters on seismic interferometry without equations highlights of the history of seismic interferometry from 1968 until 2003 and a more detailed overview of the rapid developments since 2004 Seismic Interferometry is an invaluable source for researchers and students interested in the theory and applications of interferometry in geophysical exploration seismic and EM seismology ultrasonics and underwater acoustics **Report** ,1969

Mother Jones Magazine ,1995-03 Mother Jones is an award winning national magazine widely respected for its groundbreaking investigative reporting and coverage of sustainability and environmental issues **Teaching Geology Using the History and Philosophy of Science** Glenn Dolphin,2024-10-02 This book provides a case study on how to design and build an introductory geology course for non science majors The book presents a foundation with the status of geoscience education and research in geoscience conceptual development as a backdrop for the design process It then describes the instructional goal setting process and development of the structural components of the course based on the determined goals The book presents the three historical narratives the earth is a historical entity the earth is very old and the earth is dynamic that form the foundation of instruction It also describes examples of the implicit explicit and reflective treatments of the nature of science to help student develop a better sense of the process of geology Finally the book gives preliminary results from some innovative approaches to research on student learning within the domains of geological content knowledge and NOS content knowledge within the course **Stochastic Analysis of Offshore Tower Structures** Anil Kumar Malhotra,Joseph Penzien,1969 *Journal of Pressure Vessel Technology* ,1982 The Leading Edge ,2006-07 *Byte* ,1994-04 *Mother Jones* ,1995 *ACI Manual of Concrete Practice* American Concrete Institute,2002 School Library Journal ,1997 **The Software Encyclopedia** ,1986 *Safety Science Abstracts Journal* ,1978 **Forthcoming Books** Rose Arny,2000

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