

Activity 4: Locating an Earthquake Epicenter

Objectives: If you complete all the problems, you should be able to:

- ▶ Identify P, S, and surface waves on a simple seismogram.
- ▶ Locate the epicenter of an earthquake using seismograms and travel-times curves.
- ▶ Complete an earthquake intensity map by drawing isoseismals from intensity data.
- ▶ Describe how the geology of a region can affect the intensity of an earthquake.



Examining Seismograms

The three basic types of seismic wave generated by an earthquake at its focus are P-waves, S-waves, and Surface waves. P and S-waves are body waves and travel through the interior of the earth. P-waves have the greatest velocity and reach the seismic station first. S-waves arrive at the seismic station after the P-waves. The amount of time that passes between the P-wave arrival and the S-wave arrival is important in helping seismologists determine the epicenter of the earthquake.

Today we will be using a travel-time graph, where the vertical separation between the P and S curves is equal to the difference in the arrival times between the P-wave and S-wave. To accurately locate an earthquake epicenter, records from three seismograms are necessary.

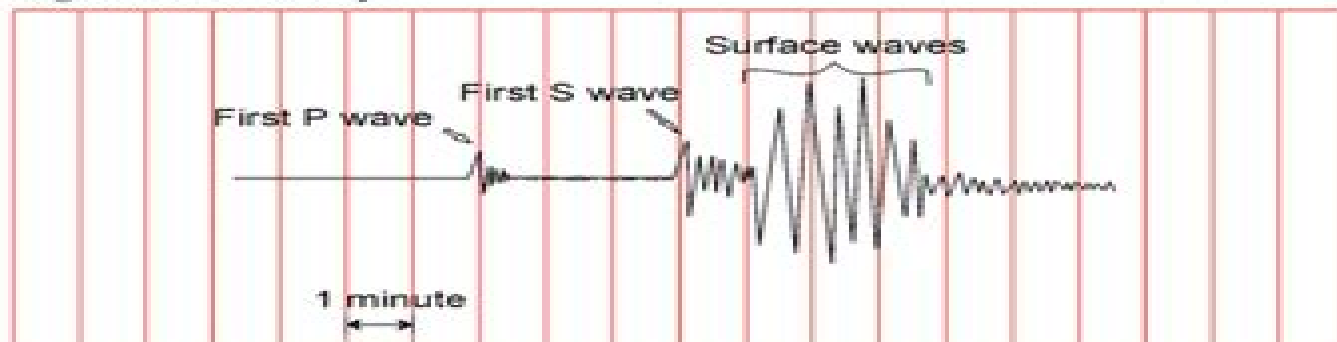


Figure 1. A typical seismogram.

(Earlier)



(Later)

Locating Earthquake Epicenter Lab Answers

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Kennedy**



Locating Earthquake Epicenter Lab Answers:

America's Lab Report National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Board on Science Education, Committee on High School Laboratories: Role and Vision, 2006-01-20 Laboratory experiences as a part of most U S high school science curricula have been taken for granted for decades but they have rarely been carefully examined What do they contribute to science learning What can they contribute to science learning What is the current status of labs in our nation s high schools as a context for learning science This book looks at a range of questions about how laboratory experiences fit into U S high schools What is effective laboratory teaching What does research tell us about learning in high school science labs How should student learning in laboratory experiences be assessed Do all student have access to laboratory experiences What changes need to be made to improve laboratory experiences for high school students How can school organization contribute to effective laboratory teaching With increased attention to the U S education system and student outcomes no part of the high school curriculum should escape scrutiny This timely book investigates factors that influence a high school laboratory experience looking closely at what currently takes place and what the goals of those experiences are and should be Science educators school administrators policy makers and parents will all benefit from a better understanding of the need for laboratory experiences to be an integral part of the science curriculum and how that can be accomplished

Integrated Science Laboratory Manual Michael J. Padilla, 2000 Includes 74 investigations pre lab discussions and critical thinking questions safety manual and student safety test teaching support

The Annual Report of the Secretary of Commerce United States. Department of Commerce, 1961

Reports of the Department of Commerce. Report of the Secretary of Commerce and Reports of Bureaus United States. Department of Commerce,

ESSA Technical Report ERL-ESL ,1970

Geology From Experience E. Kirsten Peters, Larry E. Davis, 2000-11-05 Moving away from the observation and vocabulary focus of traditional physical geology lab manuals Peters and Davis s *Geology from Experience* offers experiments that favor hands on involvement and scientific problem solving Students are asked to use geological tools and techniques analyze data from observation experiment and research solve simple equations and make assessments and relevant predictions This approach class tested with great success by the authors gives students a real taste of the scientific experience by revealing the ways geologists actually do their work

Earth Science ,2001

Focus on Earth Science ,2001

Im Earth Lab Explore Earth Sci Claudia Owen, Diane Pirie, 2001-08

EAS 220 Lab Book ,2007

Open-file Report ,1979

Scientific and Technical Aerospace Reports ,1995-05

Seismic Engineering Program Report, September-December 1977 ,1978

Contemporary Issues in Science and Technology Education Ben Akpan, Bulent Cavas, Teresa Kennedy, 2023-02-24 This edited volume discusses major issues in present day science and technology education STE It is divided into three thematic sections philosophical foundations and curriculum development sustainable development technology and society and the learning sciences and 21st

century skills Section I examines the history and future of STE curriculum development along with specific issues within this dynamic area Section II explores sustainable development in three important aspects economic development social development and environmental protection Section III covers the 21st century skills that are of overarching importance to the success of learners in school and the world of work Anchoring each chapter is an assemblage of veteran science and technology education specialists selected from across the world The book s target is a worldwide audience of undergraduate post graduate students and their teachers as well as researchers This book s exploration of the ever increasing advances in STE and its narrative writing style will be of interest to a broad range of readers

U.S. Geological Survey Open-file Report ,1993 *U.S. Government Research & Development Reports* ,1970 *NOAA Technical Report ERL*. United States. National Oceanic and Atmospheric Administration,1973 *Nuclear Science Abstracts* ,1975 *The Changing Earth: Teacher's ed* ,2005 *Geophysical Studies* Open University. S2-4 Course Team,Open University. Geophysics Course Team,1973

The Top Books of the Year Locating Earthquake Epicenter Lab Answers The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have enthralled audiences this year. Locating Earthquake Epicenter Lab Answers : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Locating Earthquake Epicenter Lab Answers : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Locating Earthquake Epicenter Lab Answers : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

http://www.technicalcoatingsystems.ca/data/detail/Download_PDFS/Forensic%20Accounting%20And%20Financial%20Fraud%20In%20Nigeria%20An.pdf

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