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Sumantra Earthquake & Tsunami Lab

Partners: _____
Adapted from D. Robinson & S. Kluge

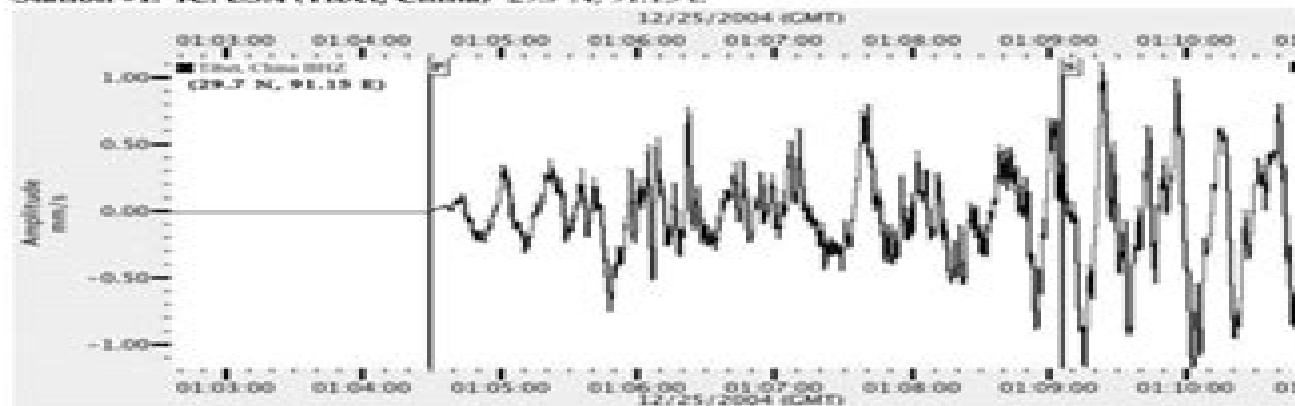
Introduction: In this lab you'll study seismograms from six different seismic stations recording the magnitude 9.0 Sumatra earthquake of December 26th, 2004. *By comparing the arrival times of the P and S waves on each seismogram, you'll be able to determine the distance from the epicenter to each station.* Once you know the distance to the epicenter from three stations you can pinpoint the epicenter using a process known as triangulation.

Procedure Part 1: Finding the Epicenter

1. Read the time of the P and S waves at each station and place that information in your data table below. Read each arrival time to the nearest second.
2. Determine the amount lag or lapse time between the arrival of the P and S waves at each station. Subtract the P-wave arrival time from the S-wave arrival time. Record your results in DATA TABLE 1.
3. Use the P and S wave travel-time curves (ESRT p.11) to find the distance from each station to the earthquake epicenter and record that distance in your data table.
4. On MAP #1, use the map scale and your safety compass to draw circles around each station of a radius equal to the epicenter distances that you just found using your reference tables.
5. Label the intersection of the 3 circles as the epicenter of the earthquake.

Data: Seismographs

Station #1: IC. LSA (Tibet, China) 29.7 N, 91.15 E



Sumatra Earthquake And Tsunami Lab Answers

Acoustical Society of America



Sumatra Earthquake And Tsunami Lab Answers:

U.S. Tsunami Warning System and S. 50, "The Tsunami Preparedness Act of 2005" United States. Congress. Senate. Committee on Commerce, Science, and Transportation, 2005 Earth Lab Claudia Owen, Diane Pirie, Grenville Draper, 2006

Utilizing graphs and simple calculations this clearly written lab manual complements the study of earth science or physical geology Engaging activities are designed to help students develop data gathering skills e g mineral and rock identification and data analysis skills Students will learn how to understand aerial and satellite images to perceive the importance of stratigraphic columns geologic sections and seismic waves and more **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 o 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 o Farm subsidies alone in 2004 cost taxpayers 16 2 billion o 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 Technical Report, 2006 *Identifying Emerging Issues in Disaster Risk Reduction, Migration, Climate Change and Sustainable Development* Karen Sudmeier-Rieux, Manuela Fernández, Ivanna M. Penna, Michel Jaboyedoff, J.C. Gaillard, 2016-08-29 The goal of this book is to explore disaster risk reduction DRR migration climate change adaptation CCA and sustainable development linkages from a number of different geographical social and natural science angles Well known scientists and practitioners present different perspectives regarding these inter linkages from around the world with theoretical discussions as well as field observations This publication contributes in particular to the discussion on the Sendai Framework for Disaster Risk Reduction SFDRR 2015 2030 and the debate about how to improve DRR including CCA policies and practices taking into account migration processes from a large perspective where both natural and social factors are crucial and mutually alloyed Some authors see

the SFDRR as a positive step forward in terms of embracing a multitude of issues others doubting that the agreement will lead to much concrete action toward real action on the ground This book is a timely contribution for researchers students and policy makers in the fields of environment human geography migration disaster and climate change studies who seek a more comprehensive grasp of contemporary development issues *People, Land & Water*, 2005 Scientific and Technical Issues in Tsunami Hazard Assessment of Nuclear Power Plant Sites United States. Science Review Working Group, 2007

Tsunami Information Sources Robert L. Wiegel, 2005 **The Journal of the Acoustical Society of America** Acoustical Society of America, 2005 **Teaching and Learning Science** Kenneth George Tobin, 2006 Teaching and Learning Science consists of 66 chapters written by more than 90 leading educators and scientists The contributions are informed by cutting edge theory and research and address numerous issues that are central to K 12 education The book is arranged according to themes that are central to science education language and scientific literacy home and school relationships equity new roles for teachers and students connecting science to other areas of the curriculum resources for teachers and learners and science in the news The authors address controversial topics such as evolution and present alternative ways to think about teaching learning the outcomes of science education and issues associated with high stakes testing In addition relationships between science and literacy are explored in terms of art and science making sense of visuals in textbooks reading writing children s literature and uses of comics to represent science Publisher s website

Bulletin of the New Zealand Society for Earthquake Engineering, 2005 **The Tsunami Threat** Nils-Axel Morner, 2011-01-29 Submarine earthquakes submarine slides and impacts may set large water volumes in motion characterized by very long wavelengths and a very high speed of lateral displacement when reaching shallower water the wave breaks in over land often with disastrous effects This natural phenomenon is known as a tsunami event By December 26 2004 an event in the Indian Ocean this word suddenly became known to the public The effects were indeed disastrous and 227 898 people were killed Tsunami events are a natural part of the Earth s geophysical system There have been numerous events in the past and they will continue to be a threat to humanity even more so today when the coastal zone is occupied by so much more human activity and many more people Therefore tsunamis pose a very serious threat to humanity The only way for us to face this threat is by increased knowledge so that we can meet future events by efficient warning systems and aid organizations This book offers extensive and new information on tsunamis their origin history effects monitoring hazards assessment and proposed handling with respect to precaution Only through knowledge do we know how to behave in a wise manner This book should be a well of tsunami knowledge for a long time we hope **The Seismogenic Zone of Subduction Thrust Faults** Timothy H. Dixon, J. Casey Moore, 2007 Subduction zones one of the three types of plate boundaries return Earth s surface to its deep interior Because subduction zones are gently inclined at shallow depths and depress Earth s temperature gradient they have the largest seismogenic area of any plate boundary Consequently subduction

zones generate Earth's largest earthquakes and most destructive tsunamis. As tragically demonstrated by the Sumatra earthquake and tsunami of December 2004, these events often impact densely populated coastal areas and cause large numbers of fatalities. While scientists have a general understanding of the seismogenic zone, many critical details remain obscure. This volume attempts to answer such fundamental concerns as why some interplate subduction earthquakes are relatively modest in rupture length (greater than 100 km) while others such as the great M greater than 9 1960 Chile 1964 Alaska and 2004 Sumatra events rupture along 1000 km or more. Contributors also address why certain subduction zones are fully locked, accumulating elastic strain at essentially the full plate convergence rate, while others appear to be only partially coupled or even freely slipping, whether these locking patterns persist through the seismic cycle and what is the role of sediments and fluids on the incoming plate. Nineteen papers written by experts in a variety of fields review the most current lab, field, and theoretical research on the origins and mechanics of subduction zone earthquakes and suggest further areas of exploration. They consider the composition of incoming plates, laboratory studies concerning sediment evolution during subduction, and fault frictional properties. Seismic and geodetic studies and regional scale deformation. The forces behind subduction zone earthquakes are of increasing environmental and societal importance.

Infrasound Monitoring for Atmospheric Studies Alexis Le Pichon, Elisabeth Blanc, Alain Hauchecorne, 2010-01-19. The use of infrasound to monitor the atmosphere has, like infrasound itself, gone largely unheard of through the years. But it has many applications, and it is about time that a book is being devoted to this fascinating subject. Our own involvement with infrasound occurred as graduate students of Prof. William Donn, who had established an infrasound array at the Lamont-Doherty Geological Observatory, now the Lamont-Doherty Earth Observatory of Columbia University. It was a natural outgrowth of another major activity at Lamont: using seismic waves to explore the Earth's interior. Both the atmosphere and the solid Earth feature velocity seismic or acoustic gradients in the vertical, which act to refract the respective waves. The refraction, in turn, allows one to calculate the respective background structure in these mediums, indirectly exploring locations that are hard to observe otherwise. Monitoring these signals also allows one to discover various phenomena, both natural and man-made, some of which have military applications.

Consumer Reaction, Food Production and the Fukushima Disaster Kentaka Aruga, 2017-06-09. This book examines the factors involved in consumer responses to food produced in regions near the Fukushima Daiichi Nuclear Plant following the March 2011 Eastern Japanese earthquake and assesses how responses to reports on food safety and risk of radiation contamination shaped consumer perceptions of and subsequent behavior toward products from the Fukushima prefecture. On the basis of a survey conducted in 2014 among 8,000 consumers from all parts of Japan and focusing on ten food products (rice, cucumbers, apples, shiitake mushrooms, beef, pork, eggs, tuna, fish, wakame seaweed, and mineral water), it investigates consumer choices specifically based on rumor, fuyou, and not fact, as well as how fuyou damage shaped such choices. It then goes on to analyze the differences between these customer choices.

Testing and Measurement:

Techniques and Applications Kennis Chan, 2015-06-11 Testing and Measurement Techniques and Applications is divided into 6 sections Microwave Ultrasonic and Acoustic Measurement and Application Material Performance and Measuring and Testing Technique Laser Optics Fiber and Sensor Industrial Autoimmunization and Measurement Artificial Intelligence and Application and Image Signal and In **Guide to Coal India Management Trainee Tier I Exam 2020 for all Streams** Disha Experts, 2019-12-24 **Science** John Michels (Journalist), 2007 A weekly record of scientific progress **Guide to Coal India Management Trainee Tier I & II Electrical Engineering Exam with 2022 Solved Paper 2nd Edition** Disha Experts, 2020-01-04 Guide to Coal India Management Trainee Tier I II Electrical Engineering Exam covers all the 5 sections including the Technical Ability section in detail The book covers the complete syllabus as prescribed in the latest notification The book is divided into 5 sections which are further divided into chapters which contains theory explaining the concepts involved followed by practice exercises The Technical section is divided into 13 chapters The book also provides 2022 Tier I II Solved Papers Guide to Coal India Management Trainee Tier I & II Civil Engineering Exam with 2022 Solved Paper 2nd Edition Disha Experts, 2019-12-24 Guide to Coal India management Trainee Tier I II Civil Engineering Exam covers all the 5 sections including the Technical Ability section in detail The book covers the complete syllabus as prescribed in the latest notification The book is divided into 5 sections which are further divided into chapters which contains theory explaining the concepts involved followed by practice exercises The Technical section is divided into 15 chapters The book also provides 2022 Tier I II Solved Papers The book is also very useful for the section Engineering exam

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