

## The Sumatra Earthquake and Tsunami December 26, 2004

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(Thanks also to Bryce Hand and Michael Hubenthal)

**Introduction:** The incredible damage and tragic loss of life resulting from the 9.0 magnitude earthquake and ensuing tsunami was shocking and almost beyond belief. The event marked the most devastating natural disaster to hit the world in the last 100 years.

While earthquakes are somewhat unpredictable, and always beyond our control, earthquake related tsunamis can be measured and predicted in time to provide some warning to residents of susceptible coastal areas, and shoreline structures can be built to withstand the force of a tsunami. And there are natural warning signs of impending tsunamis, too, that properly understood and heeded can give individuals along the shore time to get to higher ground. Unfortunately for the tens of thousands of victims of the tsunami, a warning system did not exist in the Indian Ocean Basin, most shoreline structures were not built to withstand the force of a tsunami, and many people on the shores did not recognize or understand the warnings nature provided.

We will learn from this tragedy, and hopefully work to provide better warning systems, better construction, and better natural disaster preparedness education in the future.

In this lab you'll study seismograms from 3 different seismic stations recording the magnitude 9.0 Sumatra earthquake of December 26<sup>th</sup>, 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. Using that data, you can accurately map the location of the epicenter of the earthquake. Once you've located the epicenter, you'll calculate the position of the tsunami generated by the quake at one hour intervals. From those determinations, you will be able to predict how much time people had before the tsunami crashed onto their shores. Finally, you will investigate some of the ways people can lessen the impact of the next great tsunami.

### Materials:

- 2 sets of 3 seismograms from the same earthquake (included here)
- Drawing compass
- P- and S-wave travel time curves
- Tectonic map of the world
- Maps 1 and 2 for plotting the earthquake epicenter (included here)
- Scrap paper for calculations
- Web resources

### 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. Note: The first vertical line marks the P-wave arrival and the second vertical line marks the S-wave arrival time.
2. Devise a way to determine the amount of time that elapsed between the arrival of the P and S waves at each station. One way is to subtract the P-wave arrival time from the S-wave arrival time (S-P), though there is a more direct way to get that information off the seismogram. Double check and record your results in DATA TABLE 1.
3. Use the P and S wave travel-time curves to find the distance from each station to the earthquake epicenter. Do this by finding the unique epicenter distance where the difference in the P and S wave travel times is exactly equal to the difference you calculated from the seismogram. Record that distance in the last column of the data table.
4. On the "Indonesian Earthquake" map, use the map scale and your compass to draw circles around each station of a radius equal to the epicenter distances that you just determined using the travel time curves.
5. The intersection of the 3 circles marks the epicenter of the quake. Label it "Epicenter" on your map.

# Sumatra Earthquake And Tsunami Lab Answers

**Malini Shankar**



## 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      **Technical Report**, 2006      *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      *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      *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 [Tsunami Information Sources](#) Robert L. Wiegel,2005 **People, Land & Water** ,2005 *Bulletin of the New Zealand Society for Earthquake Engineering* ,2005 *The Journal of the Acoustical Society of America* Acoustical Society of America,2005 **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 *The Online Learning Idea Book* Patti Shank,2011-01-11 For those who think online learning can t be truly interactive Patti Shank and her colleagues clearly demonstrate in hundreds of examples that it can The real lesson in *The Online Learning Idea Book* is that technology doesn t build interactive learning creative thinking and good solid instructional design does Using even a smidgen of the great ideas in this book will increase the learning effectiveness of any online program Marc J Rosenberg consultant and author of *Beyond E Learning* Patti Shank has collected great ideas about online learning and teaching from all over the globe If you are an online instructor or instructional designer looking for new ways to involve and engage your learners you ll be inspired by this book Terry Morris associate professor William Rainey Harper Colleges Filled with techniques tools tips examples resources and dozens of great ideas this invaluable resource helps people who are looking to build online instructional materials or improve existing materials discover and implement what the best and brightest in industry and education are doing to make online learning more engaging and compelling Increase your know how in the following areas Look and Feel how to increase ease of use Graphics and Multimedia how to make instructional graphics

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 online tools Instructional Design how to design better and faster Science John Michels (Journalist),2007 A weekly record  
 of scientific progress *Preparing for the Day After* Malini Shankar,2014-12-22 The Picture E Book Preparing for the Day  
 After is part of a not for profit multimedia tribute of the same name to the millions of people who have lost their lives in  
 natural calamities The tribute is being published in time for the tenth anniversary of the Asian Tsunami **2005 Joint**  
**Assembly** American Geophysical Union. Joint Assembly,2005 *Northeastern Geology and Environmental Sciences* ,2005  
**Seismological Research Letters** ,2006 **Physics Briefs** ,1991 *Essentials of Health Policy and Law* Sara E.  
 Wilensky,Joel B. Teitelbaum,2019-03-18 Awarded by Book Authority one of the best Public Health books of all time *Essentials*  
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