

Laboratory Exercise 11: Earthquakes, Part 1

PHYS-106A, Physical Geology

Student Name: Belle H.

Student Learning Outcome:

- Investigate USGS HayWired Scenario Storymap to learn more about earthquakes in high-risk zones and what people can do to be prepared.

USGS Storymap Link: <https://usgs.maps.arcgis.com/apps/MapSeries/index.html?appid=364fa6f34520464ba081cb0785671193>

Questions

The appropriate tab is listed before the question, so you know where to look. Do not simply copy and paste information when an explanation is needed; rephrase it in your own words.

1. Introduction: Why did USGS scientists develop an earthquake scenario for this particular area and present it in a Storymap? (2 pts)

It can help us understand and prepare for real earthquakes, by having a detailed, vivid, realistic picture of what it would be like if such an event occurred

2. Introduction: What does the HayWired Scenario consider and investigate? (2 pts)
They HayWired Scenario is not an earthquake scenario it is a hypothetical event. It considers what if a magnitude 7.0 earthquake beat the HayWired earthquake.
3. Ground Shaking: What is the magnitude of the HayWired earthquake as modeled in the scenario? (1 pt)
7.0 magnitude
4. Ground Shaking: What level of shaking intensity will people in Napa feel at 42 seconds? (1 pt)
It was reported as and intensity levels VI and VII
5. Aftershocks: How many years of ground shaking does the USGS show in its first ShakeMap? (1 pt)
Two years
6. Fault Slip and Afterslip: What is the difference between coseismic slip and afterslip? (2 pts)

Coseismic slip occurs suddenly during an earthquake, and occurs in all earthquakes
Afterslip occurs gradually, in the days, weeks, months – and even years – that follow an earthquake
7. Landslides: What three datasets were considered by scientists to estimate the probability that the HayWired mainshock would cause a landslide? (3 pts)
Ground Shaking intensity in terms of peak ground acceleration
Geology of the study area

Geology 1 exercise 28 Answers

Richard Bailey

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.

Geology 1 exercise 28 Answers:

This book delves into Geology 1exercise 28 Answers. Geology 1exercise 28 Answers is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Geology 1exercise 28 Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Geology 1exercise 28 Answers
- Chapter 2: Essential Elements of Geology 1exercise 28 Answers
- Chapter 3: Geology 1exercise 28 Answers in Everyday Life
- Chapter 4: Geology 1exercise 28 Answers in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Geology 1exercise 28 Answers. This chapter will explore what Geology 1exercise 28 Answers is, why Geology 1exercise 28 Answers is vital, and how to effectively learn about Geology 1exercise 28 Answers.
3. In chapter 2, the author will delve into the foundational concepts of Geology 1exercise 28 Answers. The second chapter will elucidate the essential principles that need to be understood to grasp Geology 1exercise 28 Answers in its entirety.
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6. In chapter 5, the author will draw a conclusion about Geology 1exercise 28 Answers. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Geology 1exercise 28 Answers.

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