

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

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