

Geology: Topographic Development

Exercise: 1

Instructions: Answer the questions below.

1. What is the Continental Divide? How is it related to the Yellowstone Hot Spot?
2. Approximately when did the Snake River Plain begin to develop? Where was the Hot Spot?
3. About how fast is the Hot Spot migrating? In what direction?
4. What tectonic plate is moving over the Hot Spot? In what direction?
5. What is a rhyolitic caldera?
6. Where are East, Middle and Big Southern Buttes located? What are they?
7. About how frequently does the Hot Spot erupt? Where is the last place the Hot Spot erupted? Where is it today? Could it erupt again? When is this most likely to occur and where? Use the <i>geologic map of eastern Idaho</i> . This map can be accessed by going to <i>Rocks, Rails, and Trails</i> (Chapter 2) in the Geology of SE Idaho which is located in the geology section. Answer the following:

