

TAKE HOME EXAM

Use the graphs on the other sheet of paper to answer the following questions

Questions

1. What information about tectonic plates do the straight lines tell us?

2. Which seamount in Samoa is older, Tutuila or Combe? How do you know from the graphs? Explain your answer.

3. How is the data in the two graphs different for the island of Savai'i? What information does this tell us?

4. Which set of data is more linear (follows the straight line better)? What does this tell us about the age progression of the islands and seamounts in Samoa?

5. Do you think that the islands and seamounts of Samoa are formed by a mantle plume/hotspot, like Hawaii is?

IF YES: Explain why you think so, based on the data.

IF NO: Explain why you think so and explain what you think caused Samoa to form.