Date



Studying Seafloor Spreading on Land

You know from your textbook how seafloor spreading changes the ocean floor. You know that magma rises at the mid-ocean ridge and flows away from the ridge. In general, this activity is hidden beneath the ocean's water. But there is a place where seafloor spreading can be seen on land.

Figure 2 Figure 1 Iceland Vort merica Africa South Pacific merica Ocean 100 km n Atlant Key Ocean Active volcanoes; formed from today to 10,000 years ago Formed 10,000 to 2,000,000 years ago Key ─ Mid-ocean ridge Active volcanoes . Formed 2,000,000 to 63,000,000 years ago

1. What is the name of the landmass through which the mid-ocean ridge in the Atlantic Ocean passes?

- 2. How do the land structures of Iceland help confirm seafloor spreading?
- **3.** Why do you think geologists might find Iceland a useful place to conduct research on seafloor spreading?