

Volcanoes at Convergent Boundaries

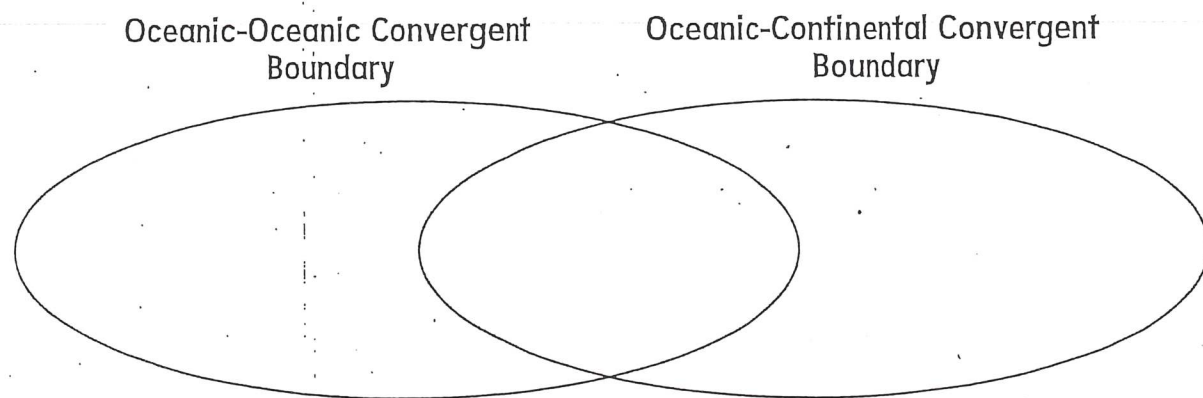
Use with textbook pages 306-307.

1. Explain how volcanoes form at convergent plate boundaries.

2. What characteristic of the converging plates determines which plate is subducted? You may wish to refer back to Topic 4.2 in your textbook, if necessary.

3. List the hazards that volcanoes can present.

4. Use the Venn diagram to compare the geologic features at the two types of oceanic convergent boundaries.

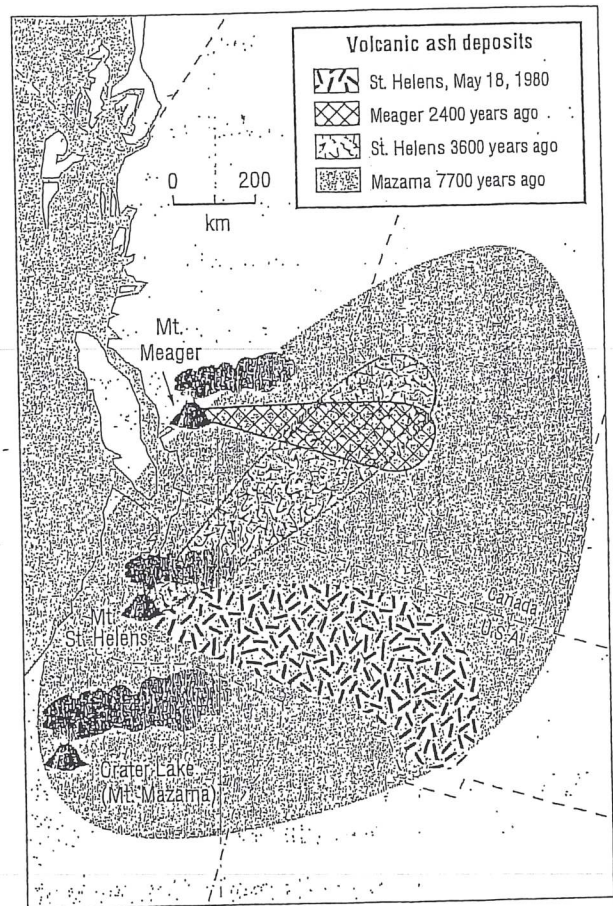


5. Why do islands form at an oceanic-oceanic convergent plate boundary?

6. Why do mountain ranges form at an oceanic-continental convergent plate boundary?

Volcanic Ash Analysis

An erupting volcano can produce huge clouds of ash that extend hundreds of kilometres. The ash can cause breathing problems as well as damage to crops, buildings, and machinery. The map at right shows deposits of volcanic ash in western North America over a long period of time. Use the map to answer the questions that follow.



1. Which volcano created the largest expanse of ash? When did it happen?

2. What direction do you think the wind was blowing when the volcanoes erupted?
What evidence are you using to make your inference?

3. Why are cities in the interior of B.C. more likely than coastal cities to receive ash from the volcanoes shown?

