

The about deep-sea  
volcanoes. if you ever



**ASSIGN  
BUSTER**

The cold volcanic glass. The spewing bacteria. The thick black smokers.

Deep-sea volcanoes can be very cool but also very dangerous to people like you and I.

Obsidian Volcanic glass is called, obsidian.

Obsidian is caused when lava or magma cools rapidly when it encounters deep, cold ocean water.

Obsidian is low in the ocean water, and ancient glasses are very rare to find.

There are only a few ancient obsidian around.

Black

Smokers Black smokers are black smoke hydrothermal vents and can be dangerous to submarines. It spews hot liquid over three times the boiling point for water on land! The superheated water immediately cools when it reaches cold ocean waters. If your planning on going to a deep-sea volcano be aware of black smokers!

Bacteria Scientists

have observed bacteria spewing from opened cracks in the ocean floor. This bacteria is called snowblowers, it's in the deep part of the ocean floor.

It blows 160 feet high and forms in the crack/breakage in earth's surface!

The Giant ClamThe giant clam and mussel are from hydrothermal vents. One species hydrothermal vent clam grew 3 times as fast compared to a regular sea clam. Typical sea clams had grown a third of an inch in a hundred years!

The Vesicomid clam populates the deep-sea hydrothermal vents.

Chemosynthetic Food Chain Deep-sea volcanoes involve the

Chemosynthetic food chain. It goes in this order: sulfide, carnivores, bacteria sulfide-energy, reduced carbon compounds, and hydrothermal vents.

Primary producers, primary consumers, first order carnivores, and top order carnivores.

Photosynthetic Food Chain Deep-sea volcanoes also

relate to the photosynthetic food chain.

It goes in this order: The sun, green plants, carnivores, herbivores, reduced carbon compounds, and chloroplasts light-energy. This process is called photosynthesis. Now you know about black smokers, volcanic glass, bacteria and more about deep-sea volcanoes. If you ever run into one take my advice: think about what you have learned and be careful!