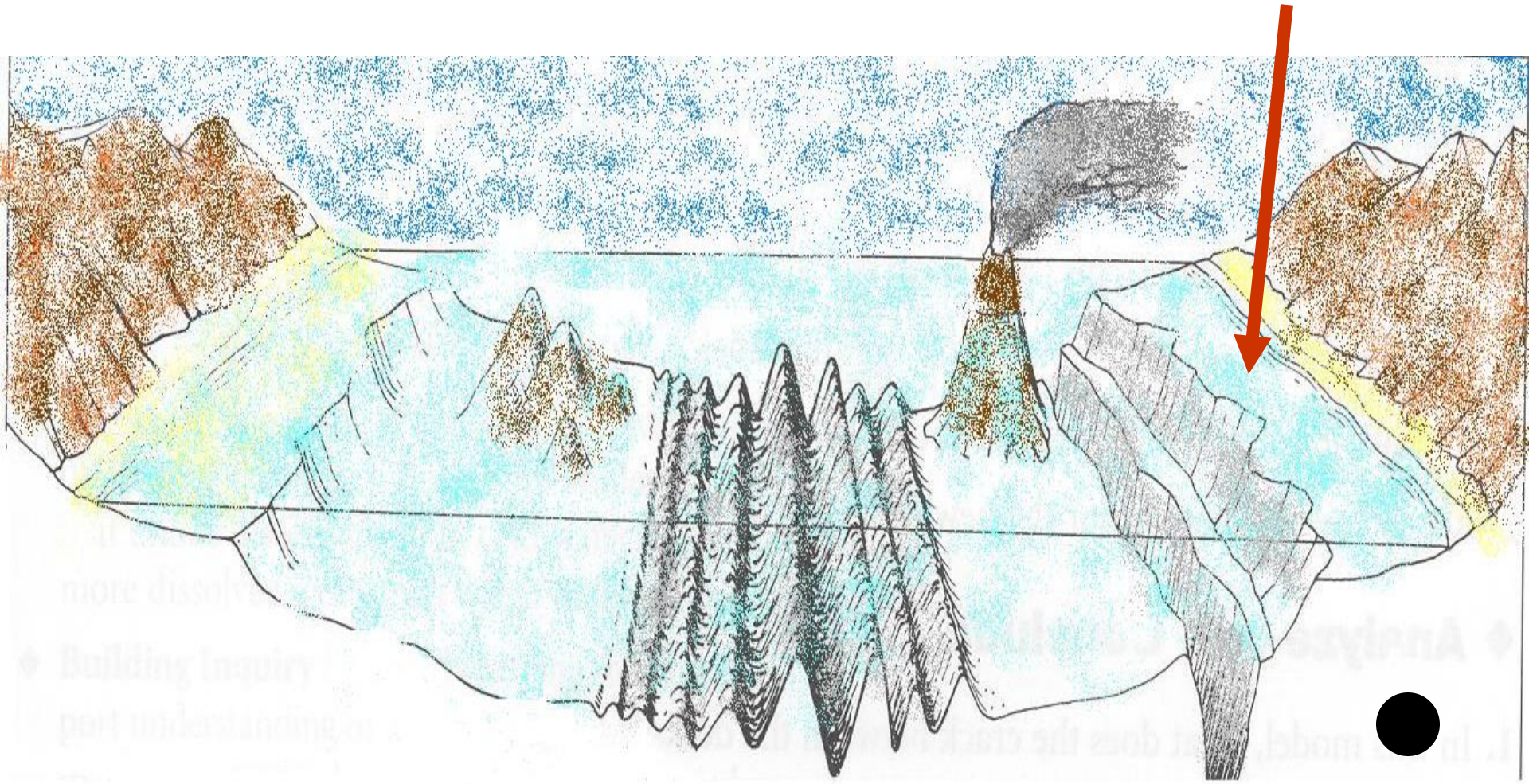
5-3.2 Illustrate the geologic landforms of the ocean floor:

- *continental shelf
- *continental slope
- *mid-ocean ridge
- *rift zone
- *trench
- *ocean basin

continental shelf



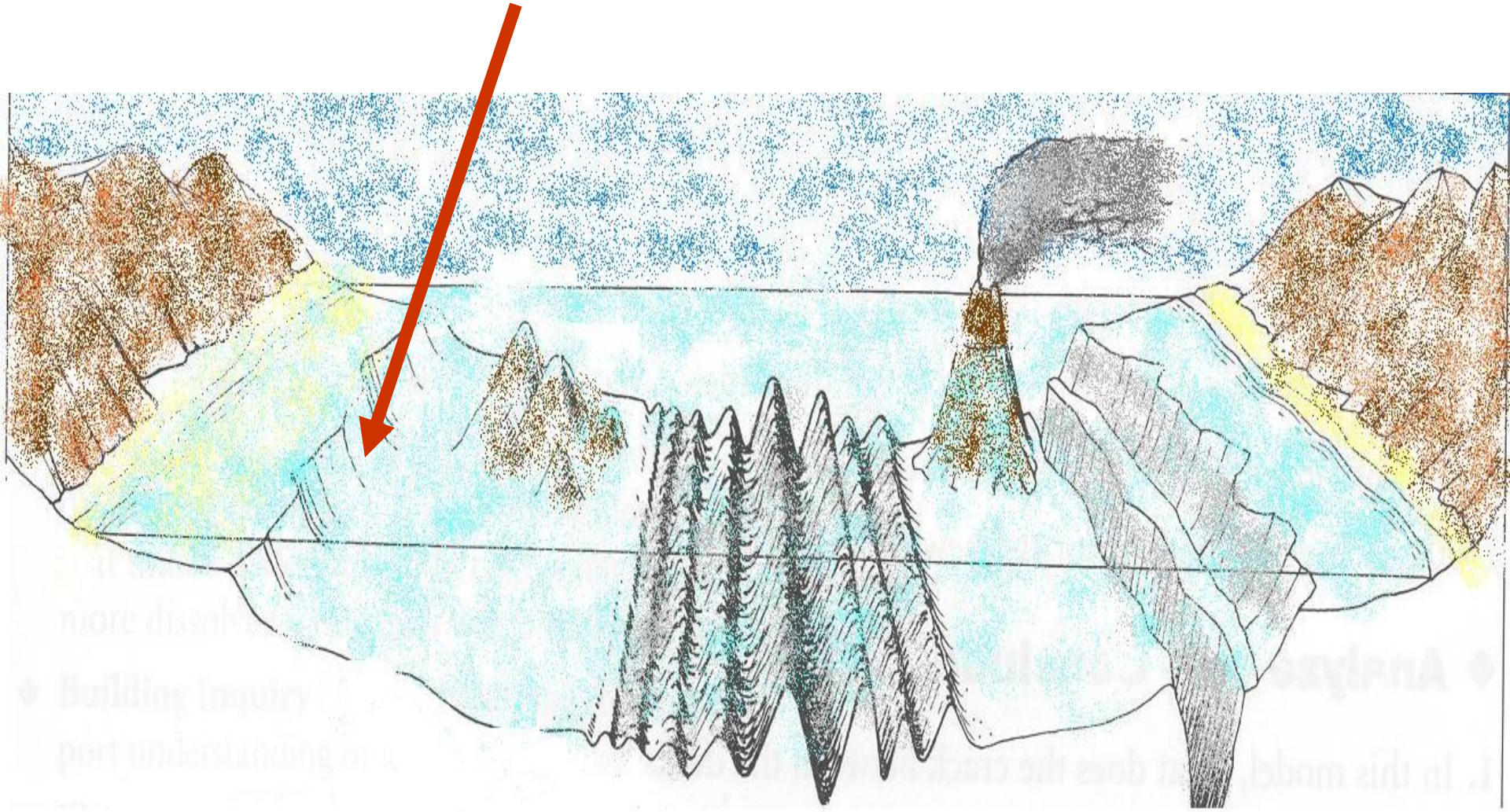
The edges of the continents slope down from the shore into the ocean.

The part of the continent located under the water is known as the continental shelf.

The width of the continental shelf varies around the edges of the continents.

In some places the continental shelf is fairly shallow and in some places it becomes very deep, but it is not the deepest part of the ocean.

continental slope

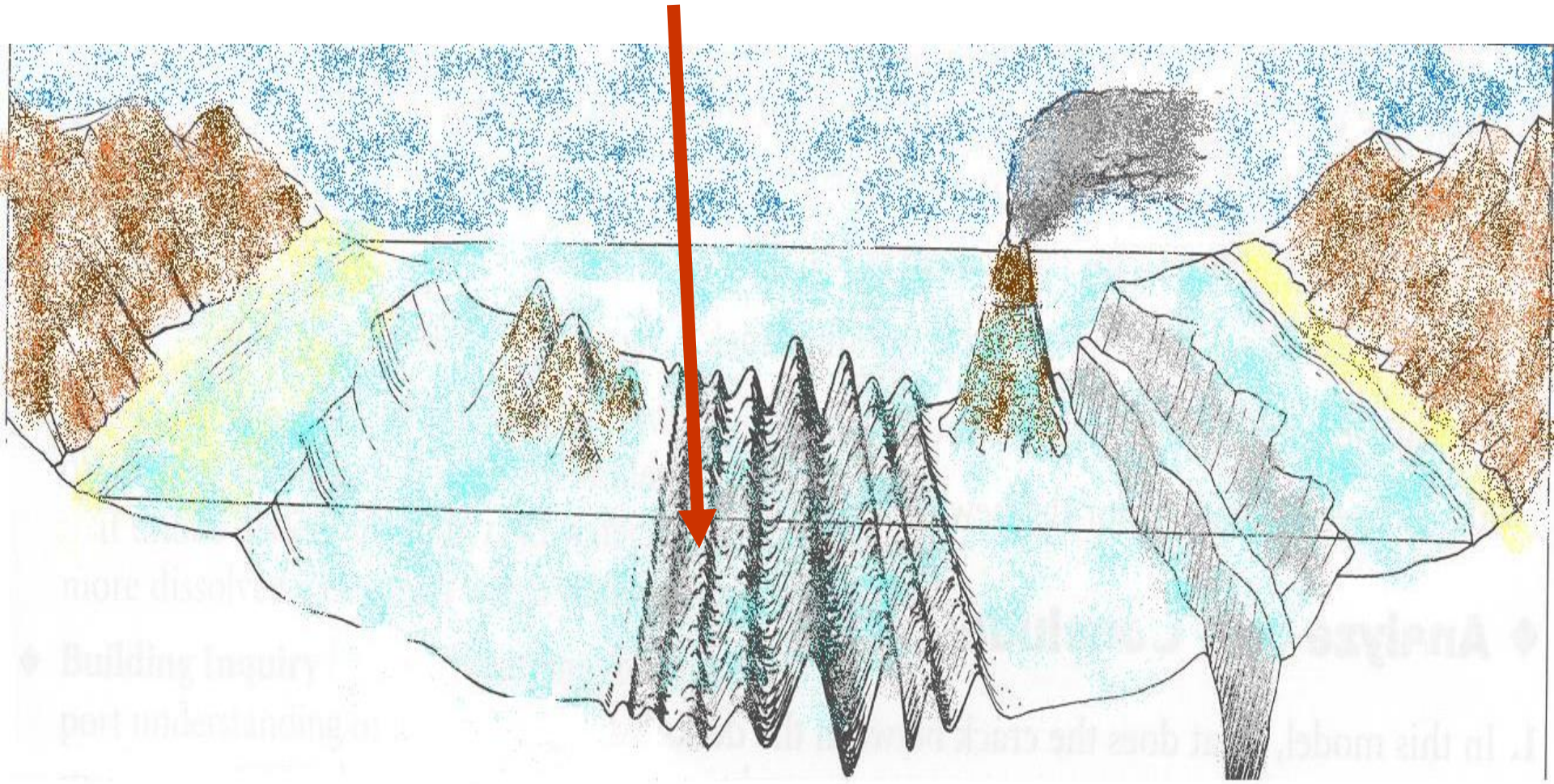


The steep slope where the continental shelf drops to the bottom of the ocean floor is called the continental slope.

The depth of the ocean water increases greatly here.

Continental shelf, slope, rise

mid-ocean ridge



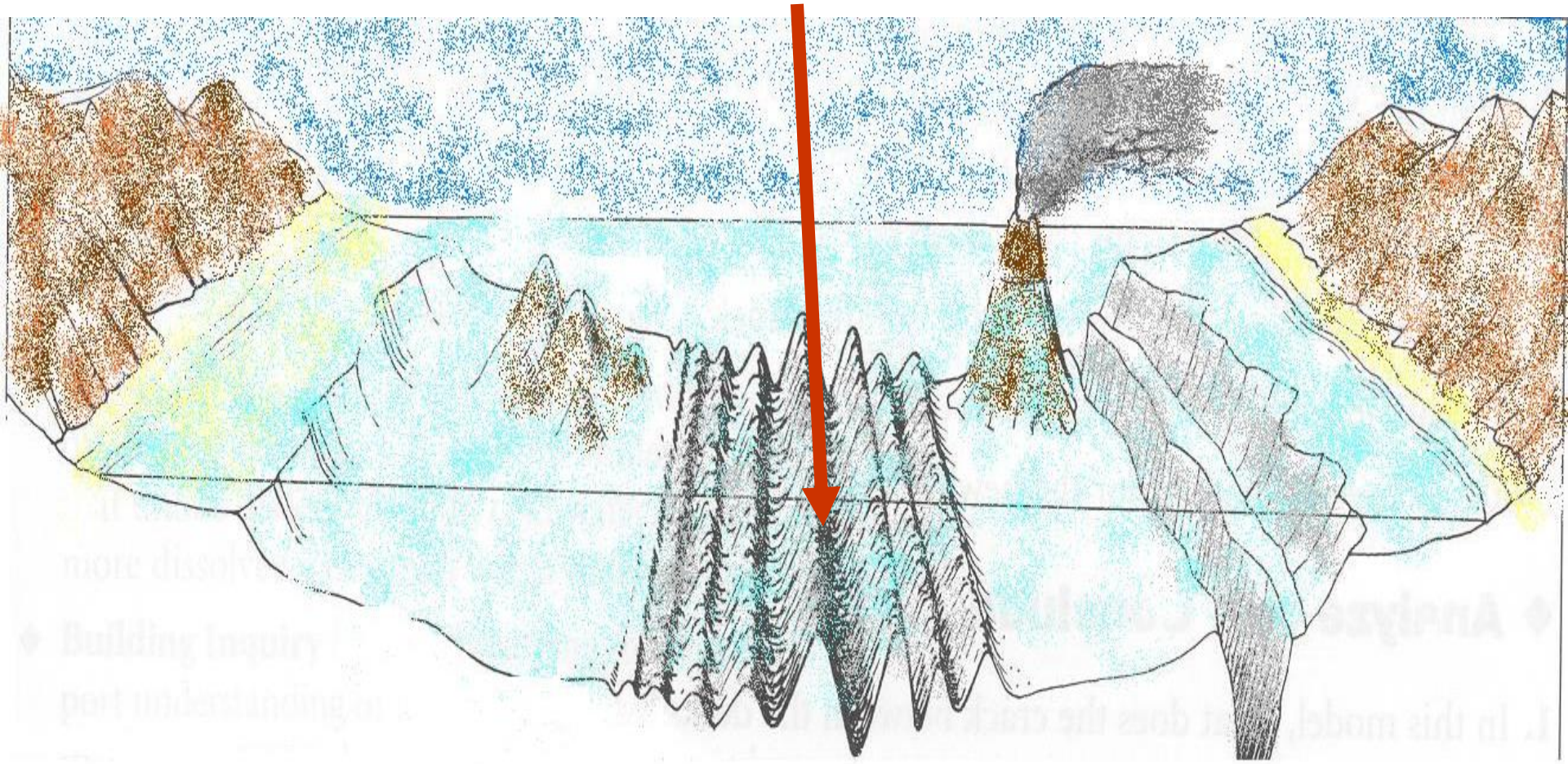
On the bottom of the ocean, there is a central ridge, or mountain range, that divides the ocean floor into two parts.

These underwater volcanic mountains are known as the mid-ocean ridge.

Volcanic mountains not formed on the mid-ocean ridge are called seamounts.


The Global Ocean Realm
What is the
mid-ocean ridge?

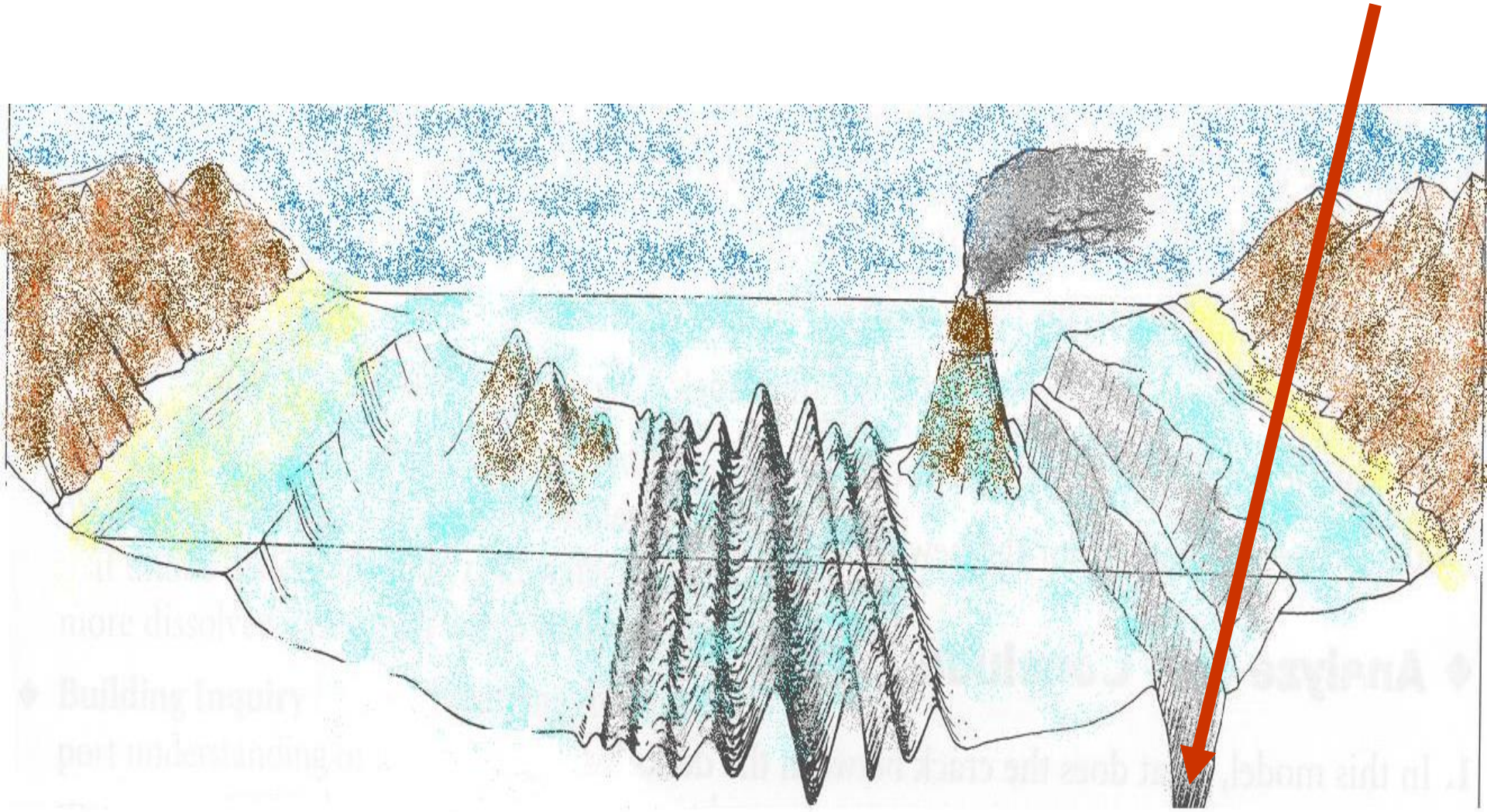
rift zone



In the center of the highest part of the mid-ocean ridge is a narrow trench called a rift.

Underwater volcanic activity that adds mountains to either side of the mid-ocean ridge occurs at the rift zone.

trench

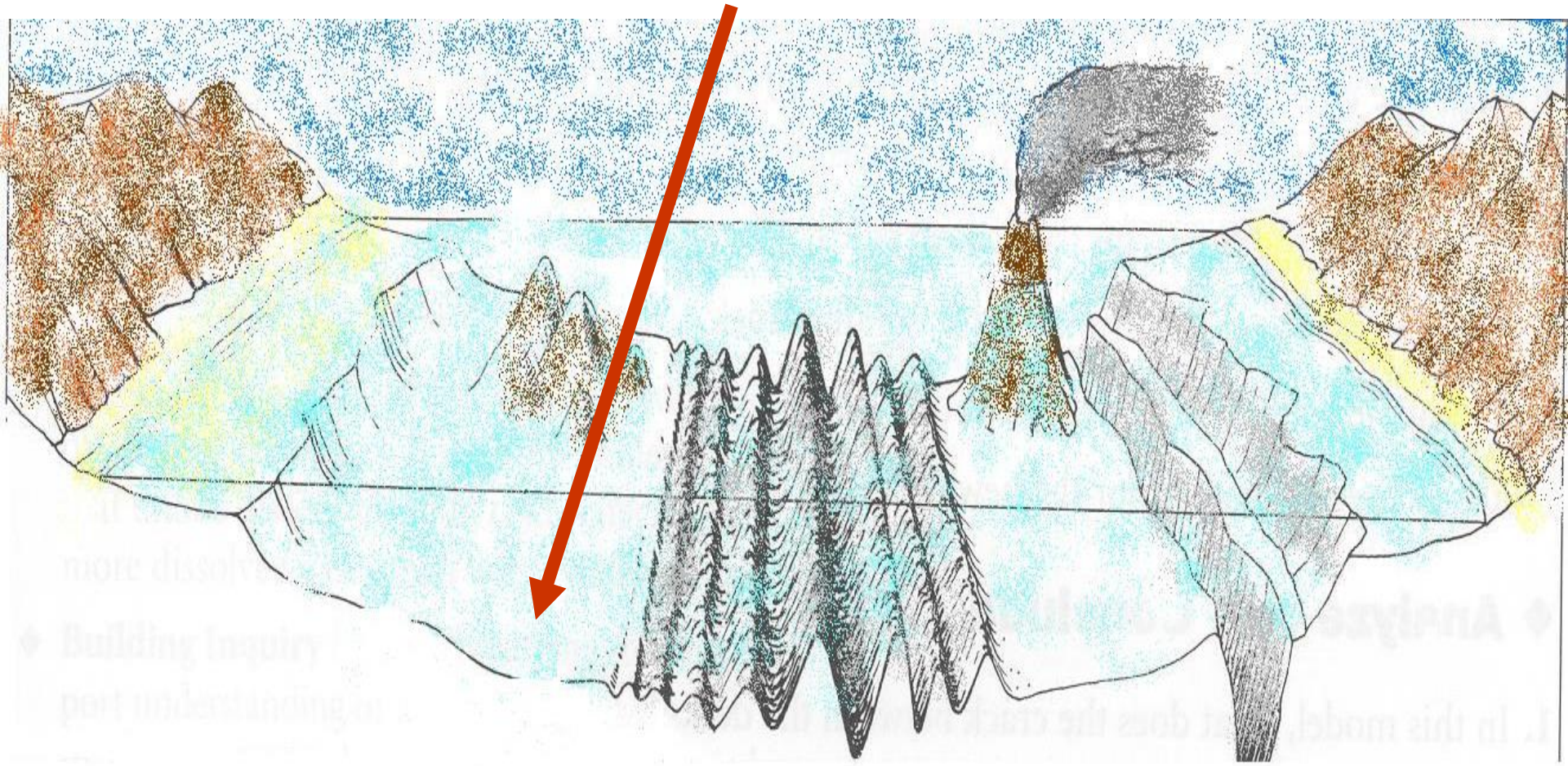


There are many steep-sided canyons and deep, narrow valleys in the bottom of the ocean.

Ocean trenches are the deepest part of the ocean basin and are deeper than any valley found on dry land.


What are deep-sea trenches?

ocean basin



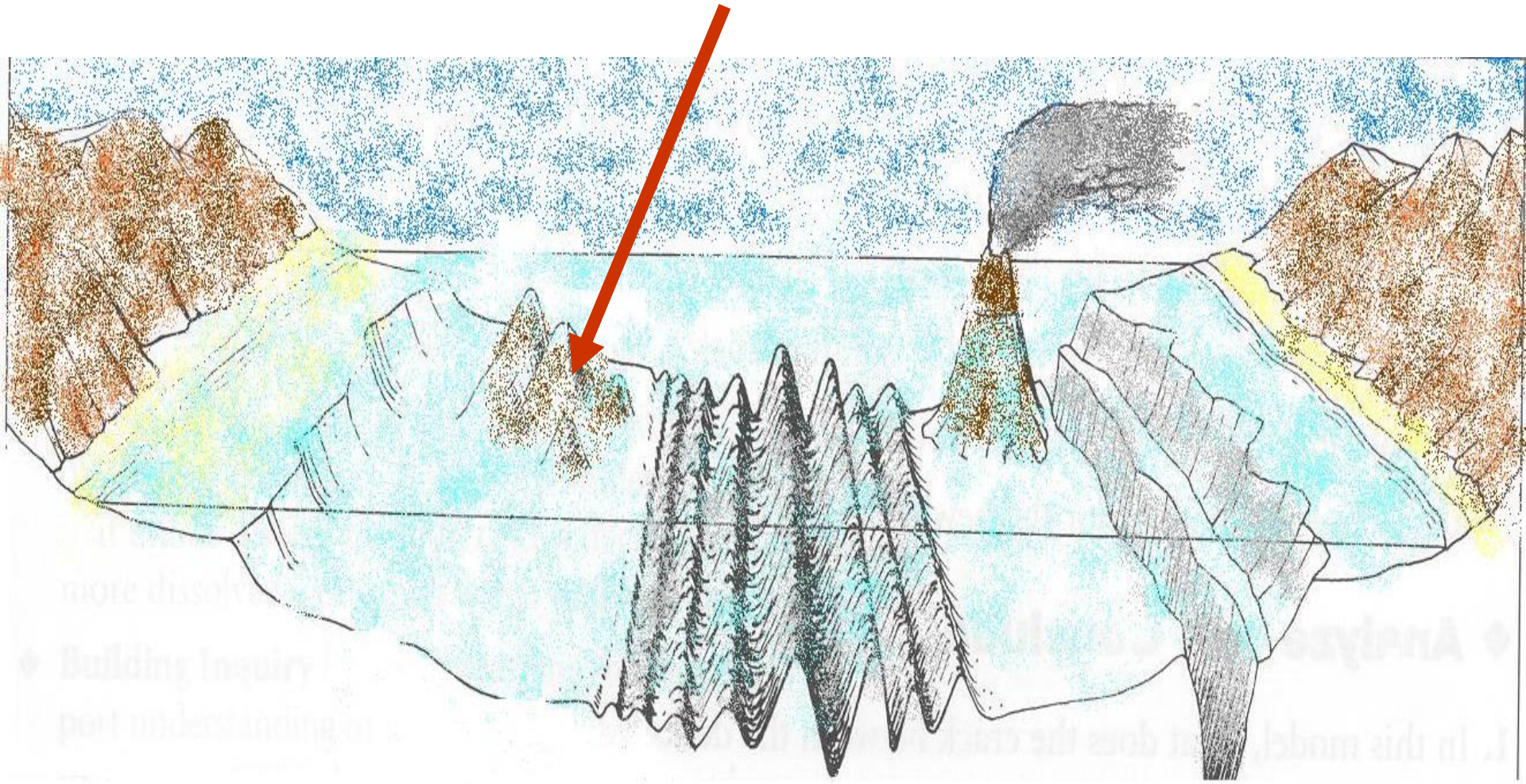
Located on either side of the mid-ocean ridge is the ocean basin.

It is made up of low hills and flat plains.

The flat area of the ocean basin is called the abyssal plain.

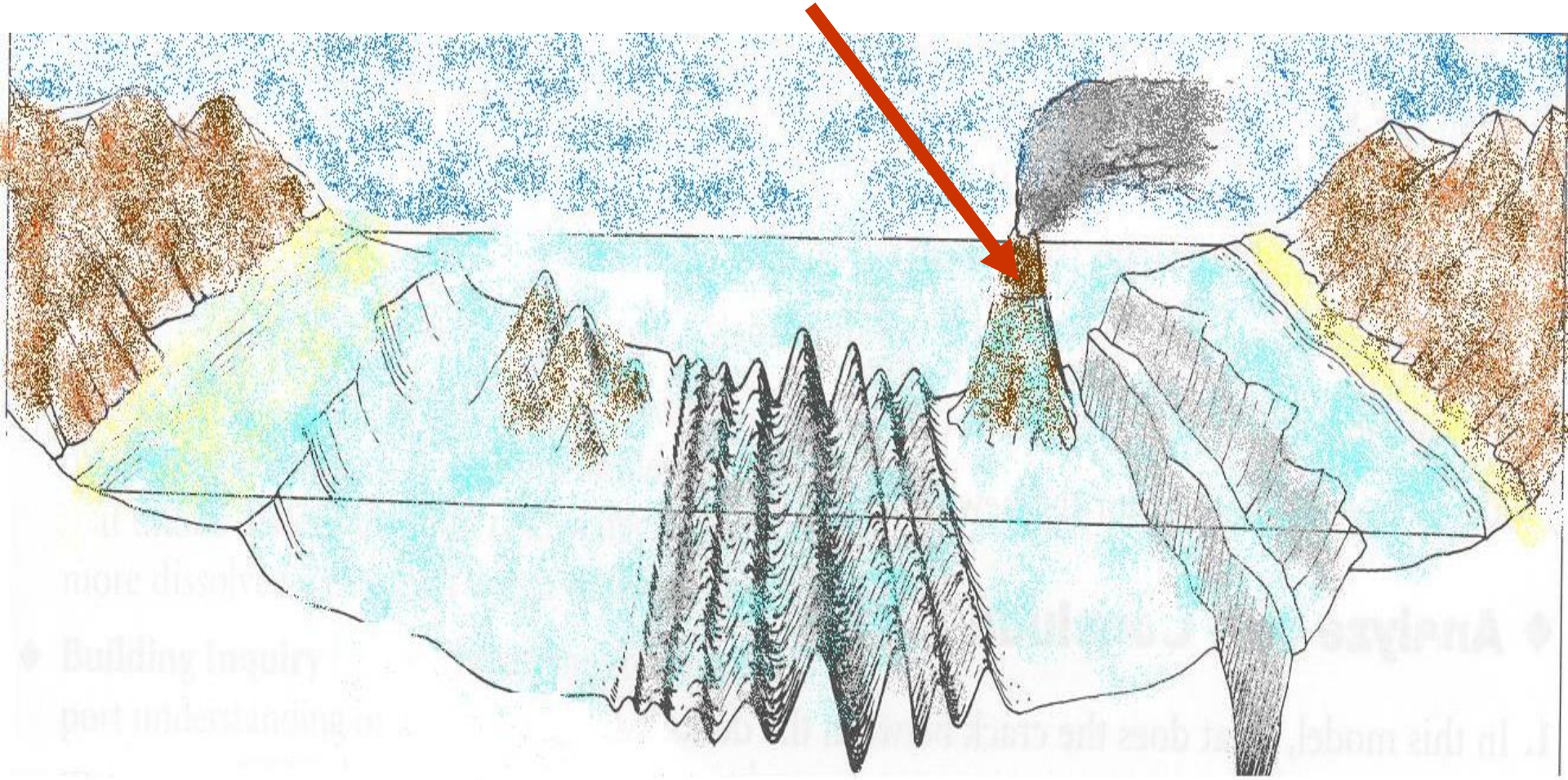
Seamounts are generally formed on the ocean basin.

seamounts

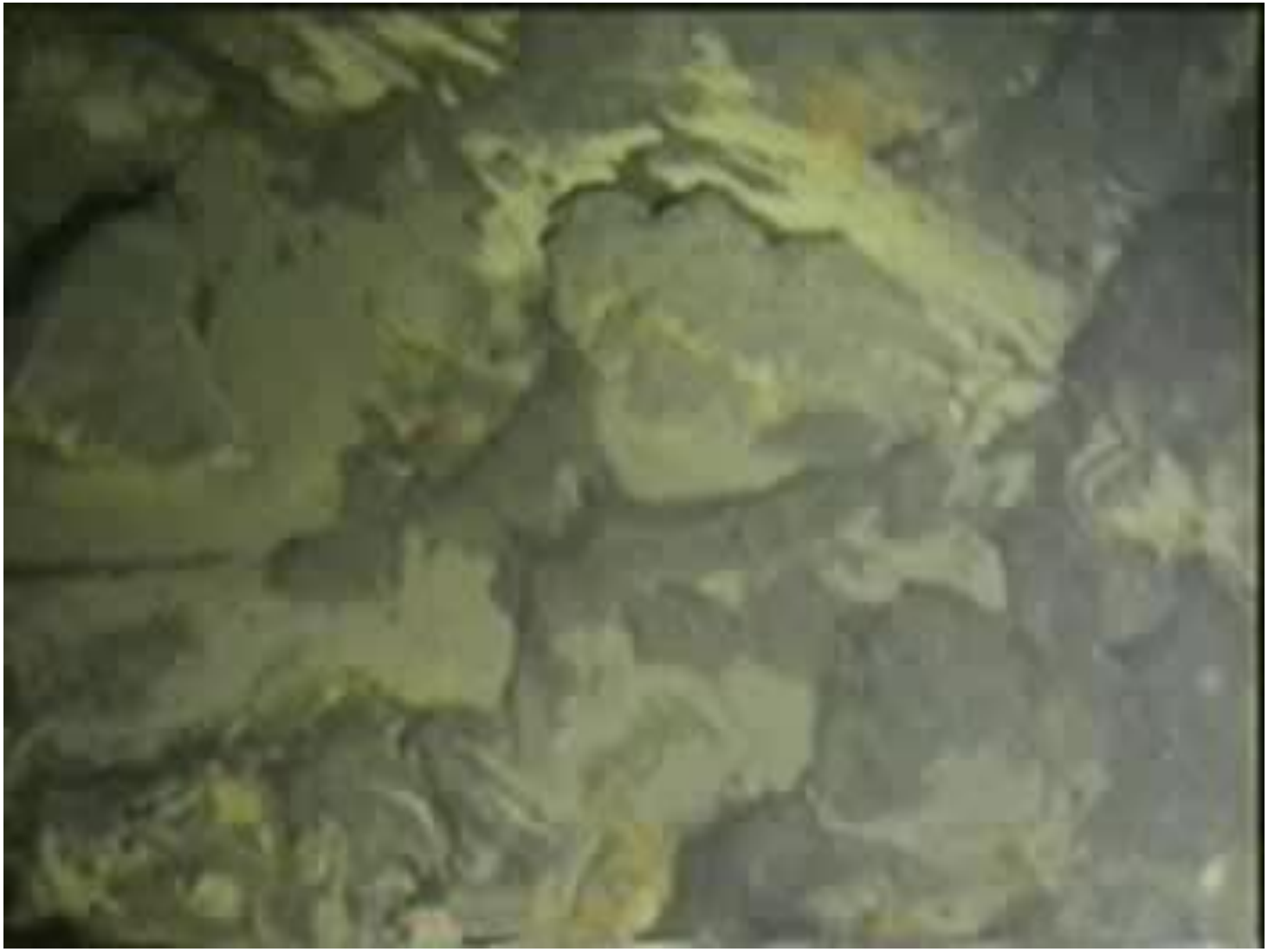


Seamounts

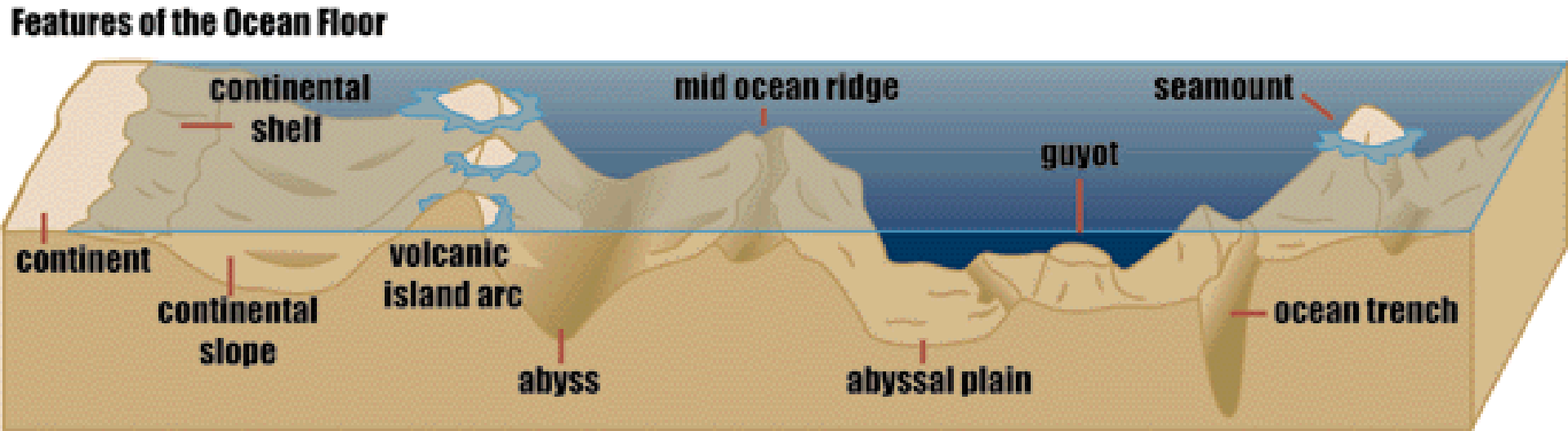
volcanic islands



Abyssal Plains



http://www.mos.org/oceans/planet/features.html



5-3.3 Compare continental and oceanic landforms.

Earth is made of solid land. Some of the land is located above Earth's water and some is located below the oceans.

Explain how landforms above the oceans are similar to those found below the oceans.

Continental Landform	**Oceanic Landform**
Canyon	Trench
Valley	Rift
Volcano	Seamount
Mountain range	Mid-ocean ridge
Low hills or plains	Ocean basin and plains

Valleys

Mountains