



Current Ocean Studies 2 Ocean Trenches

Ocean trenches are steep valleys formed within the deepest parts of the ocean. In *Investigation 2B*, you studied the ocean floor with bathymetric vertical cross-sections. In those cross-sections, you examined evidence of prominent ridge and trench relief features at the boundaries of tectonic plates, specifically the Mid-Atlantic Ridge and the oceanic trench paralleling the west coast of South America. Deep ocean trenches are an important and largely unexplored feature of Earth.

Challenger Deep

With depths of over 6000 m (20,000 ft.), trenches are called the *hadal zone*. This zone is named after Hades, the Greek god of the underworld, because the exceptional depths are one of the most inhospitable places on Earth.

Trenches are formed at convergent boundaries called **subduction zones**, where one plate is forced under another where one is pushed deep into the mantle. The bottom plate bends downward to form an ocean trench as shown in **Figure 1**. As the bottom plate moves down into the mantle, the plate warms and begins to melt, producing an upwelling of magma that erupts at the surface to form volcanoes. This collection of volcanic activity typically aligns along plate boundaries, forming an arc on the top plate.



Figure 1. A subduction zone where an oceanic plate slides beneath a continental plate.
[USGS]

Geologically dynamic, trenches experience some of the largest and most frequent earthquakes, which have been the source of devastating tsunamis.

Ocean Studies 3rd Edition

Michael Seilmaier



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