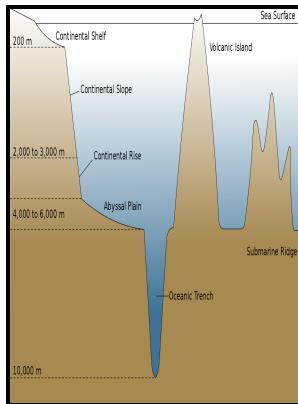


# Origin of continents and ocean basins

## Mir - Ocean Basins: Definition, Formation, Features & Types



Description: -

- Origin of continents and ocean basins
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Notes: Includes bibliographies.

This edition was published in 1977



Filesize: 60.75 MB

Tags: #Ocean #Basins #and #Continents

### (World Geography) Origin of Continents and Ocean Basins, Tectonics Plate

An abyssal hill has sharply-defined edges but will remain relatively small, generally growing not much larger than 500 feet in height and a few miles in width. In the process the outer shell of the earth crust can crack fault creating gaps within which magma will escape to cooler parts of crust; cooling into igneous rocks.

### GEO1/5 ORIGIN OF CONTINENTS AND OCEAN BASINS

Erosional features include; spits, bay bars, tombolos, beaches, cuspatate forelands, lagoons, sand dunes, mudflats, salt marshes and berms. They are usually asymmetrical with a gentle slope towards the subducted plate, and a steeper slope towards the subducting plate. Both the continental shelf and slope are considered structurally part of the continents, even though they are below the sea surface.

### Origin of Continents and Ocean Basins: Problem Solved

Early expeditions like that of the Beagle Charles Darwin brought some preliminary knowledge, compilations of data by ship captains brought some initial knowledge about ocean currents and migration of fish swarms mention Melville, Captain Ahab , but by and far we did not know much about the topography of the ocean floor, much less about its geological features. Active ocean basins undergo change mainly due to plate tectonics.

### Origin of Continents and Ocean Basins: Problem Solved

We will slowly pile up small batches of magma, that in their geometric arrangement are not unlike a pile of sausages, or squirts out of a toothpaste tube. Due to tidal currents resulting from rotation of the earth, the continental drift was westwards.

### Origin of Continents and Ocean Basins: Problem Solved

Mass wasting and continental drift; mass wasting is a general term that includes all forms of slope failure ranging from slowest process to the fastest landslides. The earth's crust breaks due to heat and pressure from the layer beneath the crust, called the mantle. Even before the theory of plate tectonics, there were a variety of geologic observations that suggested that the continents were on the move, but because nobody had a good idea what the underlying driving mechanisms might be, the idea languished in obscurity for the first half of the 20th century.

## GEO1/5 ORIGIN OF CONTINENTS AND OCEAN BASINS

Fold Mountains only form when there are compressional forces acting in the same direction. These evaporites are believed to have formed long ago when Laurasia was still enjoying hot and dry tropical conditions. Map of the Pacific Basin and parts of the central Atlantic.

### Ocean Basins: Definition, Formation, Features & Types

Mostly by basic magma which can curve.

### Read Wegener's (1912: 2002) The Origins of Continents

The width of the slope varies from 20 to 100 kilometers. Many of these subduction zones occur at the where oceanic crust meets.

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