

# What Is Sea Floor Spreading Yahoo Answers

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What is Seafloor Spreading? (with pictures)

## Theory and Evidence of Seafloor Spreading | Earth Eclipse

Seafloor spreading is a geologic process where there is a gradual addition of new oceanic crust in the ocean floor through a volcanic activity while moving the older rocks away from the mid-oceanic ridge. The mid-ocean ridge is where the seafloor spreading occurs, in which tectonic plates—large slabs of Earth's lithosphere—split apart from each other.

## **What is sea floor spreading? - ProProfs Discuss**

sea floor spreading The process by which new material that lies under the ocean rises and pushes the existing tectonic plates aside, creating new crust as it does so. notes for sea floor spreading Sea floor spreading is making the Atlantic Ocean wider by a few inches each year.

## **Sea-floor spreading - definition of sea-floor spreading by ...**

Hess went on to say that as the ocean crust spreads and cools over millions of years, it becomes denser and eventually sinks down into oceanic trenches, or subduction zones, a long way from where it forms at the mid-ocean ridge crest. As ocean crust descends toward the hot mantle, it melts and becomes recycled into the mantle.

## **Seafloor Spreading | National Geographic Society**

The EMU is known to extend over the entire NW Borneo margin and is probably related to the Sabah Orogeny which marks the cessation of sea-floor spreading in the South China Sea and collision of Dangerous Grounds block with Sabah.

## **Seafloor spreading Facts for Kids | KidzSearch.com**

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Seafloor spreading is a geologic process in which tectonic plates—large slabs of Earth's lithosphere—split apart from each other. Seafloor spreading and other tectonic activity processes are the result of mantle convection. Mantle convection is the slow, churning motion of Earth's mantle.

### **seafloor spreading | Evidence & Process | Britannica**

In 1960, Hess proposed a radical idea. He suggested that a process he called sea-floor spreading continually adds new material to the ocean floor. In sea-floor spreading, the sea floor spreads apart along both sides of a mid-ocean ridge as new crust is added. This material hardens to form the rock of the ocean floor.

### **Plate tectonics - Seafloor spreading | Britannica**

Seafloor spreading happens at the bottom of an ocean as tectonic plates move apart. The seafloor moves and carries continents with it. At ridges in the middle of oceans, new oceanic crust is created.

### **Seafloor Spreading Flashcards | Quizlet**

Seafloor spreading. As upwelling of magma continues, the plates continue to diverge, a process known as seafloor spreading. Samples collected from the ocean floor show that the age of oceanic crust increases

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with distance from the spreading centre —important evidence in favour of this process. These age data also allow the rate of seafloor spreading to be determined, and they show that rates vary from about 0.1 cm (0.04 inch) per year to 17 cm (6.7 inches) per year.

### **Seafloor spreading - Wikipedia**

Seafloor spreading is a process that occurs at mid-ocean ridges, where new oceanic crust is formed through volcanic activity and then gradually moves away from the ridge.

### **Magnetic Striping and Seafloor Spreading - YouTube**

Seafloor spreading is a constant geologic phenomenon and a primary driver of continental drift. The process begins when the crust is heated from beneath by upwelling in the mantle, sometimes called a mantle plume. This creates a three-armed rift called a triple junction, usually with each rift at a 120° angle to the rest.

### **Seafloor Spreading | Definition of Seafloor Spreading by ...**

Seafloor spreading is a process that occurs at mid-ocean ridges, where new oceanic crust is formed through volcanic activity and then gradually moves away from the ridge. Seafloor spreading helps explain continental drift in the theory of plate tectonics. When

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oceanic plates diverge, tensional stress causes fractures to occur in the lithosphere.

### **What are the steps in the process of sea floor spreading?**

Definition of seafloor spreading : the divergence at mid-ocean ridges of the tectonic plates underlying the oceans that is due to upwelling from the earth's interior of magma which solidifies and adds to the spreading plates Examples of seafloor spreading in a Sentence

### **Seafloor spreading | Definition of Seafloor spreading at ...**

The Process of how stars are made. The process by which the ocean floor sinks beneath a deep ocean trench and back into the mantle again.

### **Sea-Floor Spreading | Other Quiz - Quizizz**

Seafloor spreading, theory that oceanic crust forms along submarine mountain zones, known collectively as the mid-ocean ridge system, and spreads out laterally away from them. This idea played a pivotal role in the development of the theory of plate tectonics, which revolutionized geologic thought during the last quarter of the 20th century.

### **What Is Sea Floor Spreading**

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The discovery of magnetic stripes in oceanic crust and how this supports Wegener's Theory of Continental Drift or, as we now know it, Plate Tectonics! Presen...

### **Bing: What Is Sea Floor Spreading**

A chain of underwater mountains along which seafloor spreading occurs. Subduction. The process by which the ocean floor sinks into the mantle. Seafloor Spreading. The process that continually adds new material to the ocean floor. Deep Ocean Trench. A canyon on the ocean floor where the crust bends downward.

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