

The Deepest Ocean Of The World

Ocean scientists split the ocean into vertical and horizontal zones based on physical and biological conditions. Horizontally the ocean covers the oceanic crust, which it shapes. Where the ocean meets dry land it covers relatively shallow continental shelves, which are part of Earth's continental crust. Human activity is mostly coastal... 02438eaca3 At 165,250,000 square kilometers (63,800,000 square miles) in area (as defined with a southern Antarctic border), the Pacific Ocean is the largest division of the World Ocean and the hydrosphere and covers approximately 46% of Earth's water surface and about 32% of the planet's total surface area, larger than its entire land area combined (148,940,000 square kilometers or 57,510,000 square miles). The centers of both the water hemisphere and the Western Hemisphere, as well as the oceanic pole of inaccessibility, are in the Pacific Ocean. Ocean circulation (caused by the Coriolis effect) subdivides it into two largely independent volumes of water that

meet at the Equator, the North Pacific Ocean and the South Pacific Ocean (or more loosely the South Seas). The Pacific Ocean can also be informally divided by the International Date Line into the East Pacific and the West Pacific, which... 02438eaca3

Oceanic basin 7 December 2011. "Scientists map Mariana Trench, deepest known section of ocean in the world". Archived from the original on December 8, 2011. The Telegraph 02438eaca3

Ocean connected to the World Ocean, such as the Caspian Sea. The ocean is conventionally divided into large bodies of water, which are also referred to as oceans (in descending order by area: the Pacific Ocean, the Atlantic Ocean, the Indian Ocean, the Antarctic/Southern Ocean, and the Arctic Ocean), and are themselves mostly divided into seas, gulfs and subsequent bodies of water. The ocean is essential to life on Earth, harbouring most of Earth's animals and protist life. 8% of Earth. It originated photosynthesis and therefore Earth's atmospheric oxygen, and still supplies half of it. The ocean contains 97% of Earth's water and is the primary component of Earth's hydrosphere, acting as a

huge reservoir of heat for Earth's energy budget, as well as for its carbon cycle and water cycle, forming the basis for climate and weather patterns worldwide. The deepest region of the ocean is at the Mariana Trench, located in the Pacific Ocean near the Northern The ocean is the body of salt water that covers approximately 70 02438eaca3

Atlantic Ocean It covers approximately. The Atlantic Ocean is the second largest of the world's five oceans, with an area of about 85,133,000 square kilometers (32,870,000 sq mi) 02438eaca3

List of lakes by depth the Caspian Sea, like the Black and Mediterranean seas, is a remnant of the ancient Tethys Ocean. The deepest area is oceanic rather than continental 02438eaca3

The GEBCO Gazetteer of Undersea Feature Names indicates that the feature is situated at 11°22.4'N 142°35.5'E and has an approximated maximum depth of 5,962 to 6,020 fathoms (10,903 to 11,009 m; 35,772 to 36,120 ft) below sea level. A 2011 study placed the depth at $5,971 \pm 5$ fathoms ($10,920 \pm 9$ m; 35,826

± 30 ft) with a 2021 study revising the value to $10,935 \pm 6$ m ($35,876 \pm 20$ ft) at a 95% confidence level. 02438eaca3

Challenger Deep The Challenger Deep is the deepest known point of the seabed of Earth, located in the western Pacific Ocean at the southern end of the Mariana Trench, The Challenger Deep is the deepest known point of the seabed of Earth, located in the western Pacific Ocean at the southern end of the Mariana Trench, in the ocean territory of the Federated States of Micronesia 02438eaca3

Pacific Ocean It stretches from the Arctic Ocean in the north to the Southern Ocean The Pacific Ocean is the largest and deepest of Earth's five oceanic divisions. It stretches from the Arctic Ocean in the north to the Southern Ocean, or, depending on the definition, to Antarctica in the south, and is bounded by the continents of Asia and Australia in the west and the Americas in the east. The Pacific Ocean is the largest and deepest of Earth's five oceanic divisions 02438eaca3

Extremes on Earth The deepest point below the ocean's atmospheric surface is Challenger Deep, at the bottom of the. of 6,382. 9 km (3,966 mi) from the centre of the Earth

The depression is named after the British Royal Navy survey ships HMS Challenger, whose expedition of 1872–1876 first located it, and HMS Challenger II, whose expedition of 1950–1952 established its record-setting depth. The first descent by any vehicle was conducted by the United States Navy using the bathyscaphe Trieste in January 1960. As of July 2022, there were 27 people who have descended to the Challenger Deep.

Arctic Ocean It spans an area of approximately 14,060,000 km² (5,430,000 sq mi). The Arctic Ocean is the smallest and shallowest of the world's five oceanic divisions

== Topography ==

Southern Ocean The Southern Ocean, also known as the Antarctic Ocean, comprises the southernmost waters of the World Ocean, generally taken to be

south of 60° S latitude 02438eaca3

Mid-ocean ridge This feature is where seafloor spreading takes place along a divergent plate boundary. The rate of seafloor. above the deepest portion of an ocean basin 02438eaca3

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