

Study Guide For Seafloor Spreading

Discovered during the mapping of California's coast in 1933, Davidson Seamount is named after geographer George Davidson of the United States Coast and Geodetic Survey. Studied only sparsely for decades, NOAA expeditions to the seamount in 2002 and 2006 cast light upon its unique deep-sea... 7d2370073d The first discovered mid-ocean ridge was the Mid-Atlantic Ridge, which is a spreading center... 7d2370073d Deepwater drilling has not been technologically or economically feasible for many years, but with rising oil prices, more companies are investing in this sector. Major investors include Halliburton, Diamond Offshore, Transocean, Geoservices, and Schlumberger. The deepwater gas and oil market has been back on the rise since the 2010 Deepwater Horizon disaster, with total expenditures of around US\$35 billion per year in the market and total global capital expenditures of US\$167 billion in the past four years. Industry analysis by business... 7d2370073d

Deepwater drilling On average, about Deepwater drilling, or deep well drilling, is the process of creating holes in the Earth's crust using a drilling rig for oil extraction under the deep sea. Spar Platform (SP) – Spar Platforms use a large cylinder to support the floating deck from the seafloor. There are approximately 3400 deepwater wells in the Gulf of Mexico with depths greater than 150 meters. popular choice for companies 7d2370073d

The program began a new 10-year phase with the International Ocean Discovery Program, from the end of 2013. 7d2370073d

Hydrothermal vent “A laboratory and theoretical study of the growth of “black Hydrothermal vents are fissures on the seabed from which geothermally heated water discharges. p. Hydrothermal deposits are rocks and mineral ore deposits formed by the action of hydrothermal vents. They are commonly found near volcanically active places, areas where tectonic plates are moving apart at mid-ocean ridges, ocean basins, and hotspots. The dispersal of hydrothermal fluids throughout the global ocean at active vent sites creates hydrothermal plumes. Turner, J. S. 2. (1987-03-01). ; Campbell, I. Smokers: Incubators on the Seafloor” (PDF). H 7d2370073d

Hydrothermal vents exist because the Earth is both geologically active and has large amounts of water on its surface and within its crust. Under the sea, they may form features called black smokers or white smokers, which deliver a wide range of elements to the world's oceans, thus contributing to global marine biogeochemistry. Relative... 7d2370073d

Lwandle plate This spreading ridge separates Lwandle The Lwandle plate is one of three tectonic microplates, along with the Rovuma plate and Victoria plate, that make up the African plate with the Somali plate and the Nubian plate. Ridge, an ultra-slow spreading ridge with a slow spreading rate of about 12–18 mm/yr, acts as the southern boundary. The Lwandle plate lies between 30°E and 50°E, sharing a boundary with the Nubian, Somali, and Antarctic plates. Many experiments are ongoing to quantify this. Its discovery is very recent, so the velocity of the plate is neither well known nor well understood 7d2370073d

Mid-ocean ridge This feature is where seafloor spreading takes place along a divergent plate boundary. The rate of seafloor spreading determines the morphology of the crest of the mid-ocean ridge and its width in an ocean basin. This feature is where seafloor spreading takes place along a divergent plate boundary. The rate of seafloor spreading determines the morphology of A mid-ocean ridge (MOR) is a seafloor mountain system formed by plate tectonics. basin. It typically has a depth of about 2,600 meters (8,500 ft) and rises about 2,000 meters (6,600 ft) above the deepest portion of an ocean basin 7d2370073d

Plate tectonics century. Plate tectonics came to be accepted by geoscientists after seafloor spreading was validated in the mid- to late 1960s. The model builds on the concept of continental drift, an idea developed during the first decades of the 20th century. The processes that result in plates and shape Earth's crust are called tectonics. Plate tectonics came to be accepted by geoscientists after seafloor spreading was validated in the mid- to late 1960s. The processes that result Plate tectonics (from Latin tectonicus, from Ancient Greek τεκτονικός (tektonikós) 'pertaining to building') is the scientific theory that Earth's lithosphere comprises a number of large tectonic plates, which have been slowly moving since 3–4 billion years ago 7d2370073d

Torlesse composite terrane It is named for the Torlesse Range in Canterbury. Its southern extent is a cryptic boundary with the Caples terrane within the Haast Schists in Central Otago. It contains the Rakaia, Aspiring and Pahau terranes and the Esk Head Belt. The Torlesse composite terrane is found east of the Alpine Fault in the Southern Alps of New Zealand. These sediments may have derived in part from the granitic rocks of northeastern Australia, as suggested by studies of the mineral The Torlesse composite terrane is a plate tectonic terrane forming part of the South Island of New Zealand. blanket the deep seafloor. Greywacke (or Torlesse Greywacke) is the dominant rock type of the composite terrane; argillite is less common and there are minor basalt occurrences 7d2370073d

InterRidge organisation that promotes interdisciplinary, international studies in the research of oceanic spreading centres, including mid-ocean ridge and back-arc basin InterRidge is a non-profit organisation that promotes interdisciplinary, international studies in the research of oceanic spreading centres, including mid-ocean ridge and back-arc basin systems. InterRidge is dedicated to reaching out to the public, scientists and governments, and to providing a unified voice for ocean ridge researchers worldwide. It does so by creating a global research community, planning and coordinating new science programmes that no single nation can achieve alone,

exchanging scientific information, and sharing new technologies and facilities 7d2370073d

Davidson Seamount area entirely. Davidson Seamount Davidson Seamount is a seamount (underwater volcano) located off the coast of Central California, 80 mi (129 km) southwest of Monterey and 75 mi (121 km) west of San Simeon. DNA studies may in the future help scientists prove seamounts are indeed sources of larvae for their surrounding seafloor. From base to crest, the seamount is 7,480 ft (2,280 m) tall, yet its summit is still 4,101 ft (1,250 m) below the sea surface. The seamount is biologically diverse, with 237 species and 27 types of deep-sea coral having been identified. At 26 mi (42 km) long and 8 mi (13 km) wide, it is one of the largest known seamounts in the world 7d2370073d

Integrated Ocean Drilling Program The program used heavy drilling equipment mounted aboard ships to monitor and sample sub-seafloor environments. step in verifying the hypothesis of plate tectonics associated with seafloor spreading, by dating basal sediments on transects away from the Mid-Atlantic The Integrated Ocean Drilling Program (IODP) was an international marine research program, running from 2003 to 2013. With this research, the IODP documented environmental change, Earth processes and effects, the biosphere, solid earth cycles, and geodynamics 7d2370073d

The production of new seafloor and oceanic lithosphere results from mantle upwelling in response to plate separation. The melt rises as magma at the linear weakness between the separating plates, and emerges as lava, creating new oceanic crust and lithosphere upon cooling. 7d2370073d While Earth is the only planet known to currently have active plate tectonics, evidence suggests that other planets and moons have experienced or exhibit forms of tectonic activity. For example, Jupiter's moon Europa... 7d2370073d

Bottom trawling Midwater trawling catches pelagic fish such as anchovies and mackerel, whereas bottom trawling targets both bottom-living fish (groundfish) and semi-pelagic species such as cod, squid, shrimp, and rockfish. Bottom trawling can be contrasted with midwater trawling (also known as pelagic trawling), where a net is towed higher in the water column. The scientific community divides Bottom trawling is trawling (towing a trawl, which is a fishing net) along the seafloor. It is also referred to as "dragging". It is also referred to as "dragging". trawling is trawling (towing a trawl, which is a fishing net) along the seafloor. Benthic trawling is towing a net at the very bottom of the ocean and demersal trawling is towing a net just above the benthic zone. The scientific community divides bottom trawling into benthic trawling and demersal trawling 7d2370073d

It was launched in 1992, and in 2011 InterRidge has 6 principal, 3 associate, and 21 corresponding member nations and regions. InterRidge has more than 2500 individual member scientists in disciplines ranging from marine geology... 7d2370073d The Lwandle plate is largely oceanic, lying off the southeast coast of Africa. It is currently believed that the southern part of Madagascar forms part of the Lwandlean plate, with one of the plate boundaries cutting through the island. 7d2370073d Trawling is done by a trawler, which can be a small open boat with only 30 hp (22 kW) or a large factory... 7d2370073d

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