

Paleomagnetism and the Ocean Floor

In the continental drift hypothesis, the ocean floors were not really involved. The hypothesis proposed that the continents moved through the oceans like icebreaking ships plowing through ice. Later studies of the oceans provided one of the keys to the plate tectonic theory. You will observe how the magnetic rocks on the ocean floor can be used to understand plate tectonics.

Problem: How are the paleomagnetic patterns on the ocean floor used to determine the rate of seafloor spreading?

Materials

- Re-created Scale from pg. 273
- calculator

Procedure & Data

1. Scientists have reconstructed Earth's magnetic polarity reversals over the past several million years. A record of these reversals is shown in **Figure 1**. Periods of normal polarity, when a compass would have pointed north as it does today, are shown in grayscale. Periods of reverse polarity are shown in white. Record the number of times Earth's magnetic field has had reversed polarity in the last 4 million years.

times reversed polarity has occurred in the last 4million years = _____



Figure 1

2. The three diagrams in **Figure 2** illustrate the magnetic polarity reversals across sections of the mid-ocean ridges in the Pacific, South Atlantic, and North Atlantic oceans. Periods of normal polarity are shown in the same grayscale in the illustration above. Observe that the patterns of polarity in the rock match on either side of the ridge for each ocean basin.

Describe the patterns of polarity that you observe on either side of the ridge for each OCEAN BASIN.

Pacific Ocean: _____

South Atlantic Ocean: _____

North Atlantic Ocean: _____

3. On the three ocean-floor diagrams:

- Identify and mark the periods of normal polarity with the letters *a-f*.

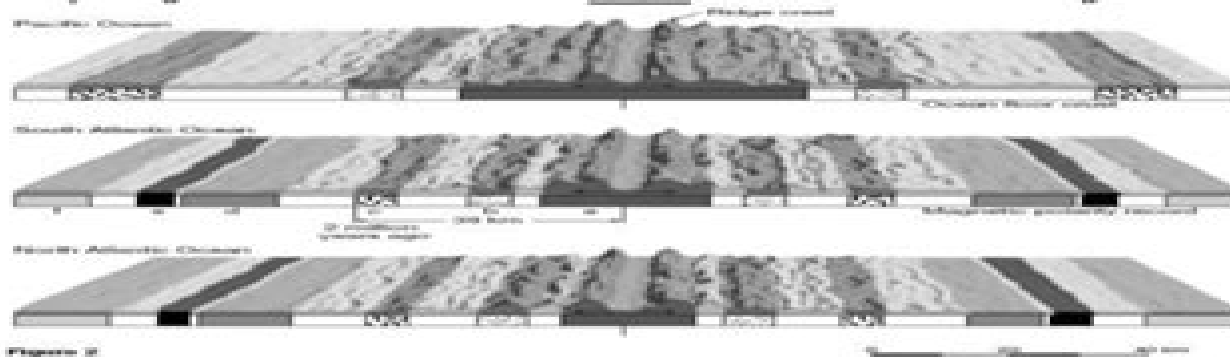
**Begin at the ridge crest and label along both sides of each ridge.*

(Hint: The left side of the South Atlantic has already been done and can act as a guide.)

- Measure from the Ridge Crest to the 2million years marking (green band - c) **Measure the diagram in your textbook pg. 273*

Label "2 million years ago" & "distance in km" - on the left side of the Pacific diagram

Label "2 million years ago" & "distance in km" - on the left side of the and North Atlantic diagram



Paleomagnetism And The Ocean Floor Lab Answers

Wolfgang Guggemos



Paleomagnetism And The Ocean Floor Lab Answers:

Encyclopedia of Geomagnetism and Paleomagnetism David Gubbins, Emilio Herrero-Bervera, 2007-07-19 Understanding the process underlying the origin of Earth magnetic field is one of the greatest challenges left to classical Physics Geomagnetism being the oldest Earth science studies the Earth's magnetic field in its broadest sense The magnetic record left in rocks is studied in Paleomagnetism Both fields have applications pure and applied in navigation in the search for minerals and hydrocarbons in dating rock sequences and in unraveling past geologic movements such as plate motions they have contributed to a better understanding of the Earth Consisting of more than 300 articles written by ca 200 leading experts this authoritative reference encompasses the entire fields of Geomagnetism and Paleomagnetism in a single volume It describes in fine detail at an assessable level the state of the current knowledge and provides an up to date synthesis of the most basic concepts As such it will be an indispensable working tool not only for geophysicists and geophysics students but also for geologists physicists atmospheric and environmental scientists and engineers **People, Land & Water**, 2004

Proceedings of the Ocean Drilling Program Ocean Drilling Program, 1985 Vol 174AX bound with Proceedings of the Ocean Drilling Program Scientific results Vol 174A Initial Reports of the Deep Sea Drilling Project Scripps Institution of Oceanography, 1969 **Petrology of the Ocean Floor** R. Hekinian, 2000-04-01 Petrology of the Ocean Floor

Petroleum Abstracts. Literature and Patents, 1989 Oceanic Index Citation Journal, 1968 Petroleum Abstracts, 1991 Proceedings of the Ocean Drilling Program Scripps Institution of Oceanography, **New Publications of the U.S. Geological Survey**, 1992

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