

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 4 million years = _____



Figure 1
The diagram shows the pattern of Earth's magnetic polarity reversals over the last 4 million years. The pattern repeats every 2 million years, with a reversal occurring at the boundary between 2 mya and 3 mya.

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: _____

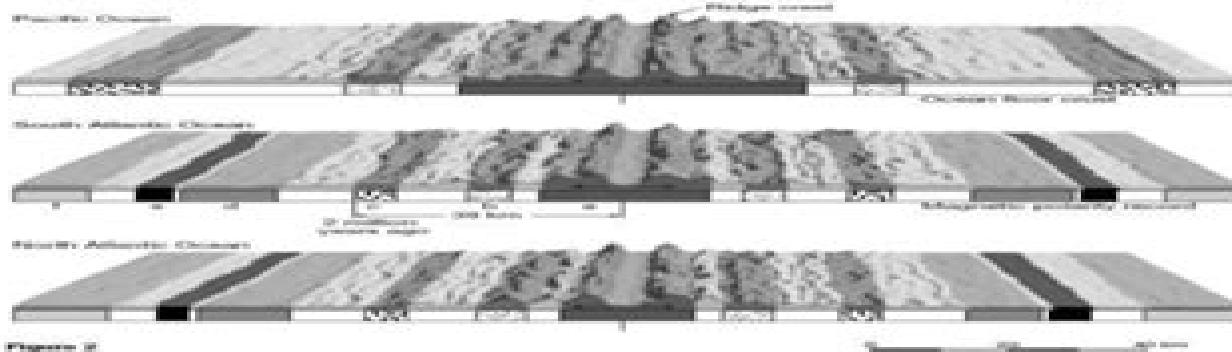
3. On the three ocean-floor diagrams:

- 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 2 million 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 North Atlantic diagram



Paleomagnetism And The Ocean Floor Lab Answers

Ocean Drilling Program

Paleomagnetism And The Ocean Floor Lab Answers:

People, Land & Water ,2004 *Proceedings of the Ocean Drilling Program* Ocean Drilling Program,1986 **Initial Reports of the Deep Sea Drilling Project** Scripps Institution of Oceanography,1969 *Petroleum Abstracts* ,1997 Oceanic Index Citation Journal ,1968 **Ferromanganese Deposits on the Ocean Floor** David R. Horn,1972 **Proceedings of the Ocean Drilling Program** Scripps Institution of Oceanography,1983 **Statistical Surface Wind Prediction in Finland** Antti Lange,1974 Aquatic Sciences and Fisheries Abstracts ,1989 *Oceanic Citation Journal with Abstracts* ,1971 *Government Reports Announcements* ,1974 Government Reports Announcements & Index ,1975 **Initial Reports of the Deep Sea Drilling Project** Scripps Institution of Oceanography,1987 **Physics Briefs** ,1994 *Carolina Science and Math* Carolina Biological Supply Company,2003 Conference Papers Index ,1984 Monthly Papers presented at recent meeting held all over the world by scientific technical engineering and medical groups Sources are meeting programs and abstract publications as well as questionnaires Arranged under 17 subject sections 7 of direct interest to the life scientist Full programs of meetings listed under sections Entry gives citation number paper title name mailing address and any ordering number assigned Quarterly and annual indexes to subjects authors and programs not available in monthly issues **Geophysical Abstracts** ,1979 **Rapport du Comité d'examen de la Direction de la physique du globe** Canada. Comité d'examen de la Direction de la physique du globe,1987 Proceedings of the Ocean Drilling Program Ocean Drilling Program,1991-03 *U.S. Government Research & Development Reports* ,1968

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