

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

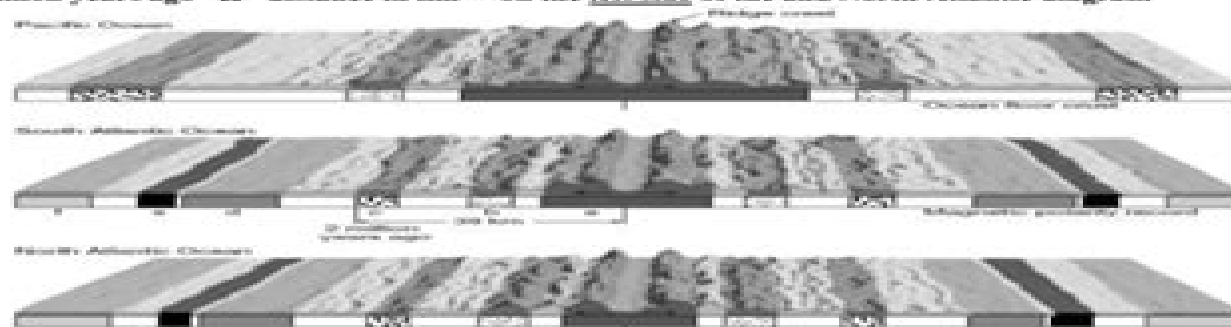


Figure 2

Answers To Paleomagnetism And Ocean Floor

AN Whitehead



Answers To Paleomagnetism And Ocean Floor:

Physical Geology Today Damian Nance, Brendan E. Murphy, 2016 This text presents a clear and conceptual understanding of how Earth works emphasizing the role of tectonic plates throughout Using clear focused and engaging prose the authors discuss connections between concepts processes and principles in a straightforward manner The text introduces themes using stunning overview graphics at the beginning of each chapter and features hundreds of meticulously developed figures throughout in order to illustrate ongoing processes and changes over time *PGT Geography Question Bank Chapterwise - for PGT Teachers* Mocktime Publication, PGT Geography Question Bank Chapterwise for PGT Teachers **Physical**

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