

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*.

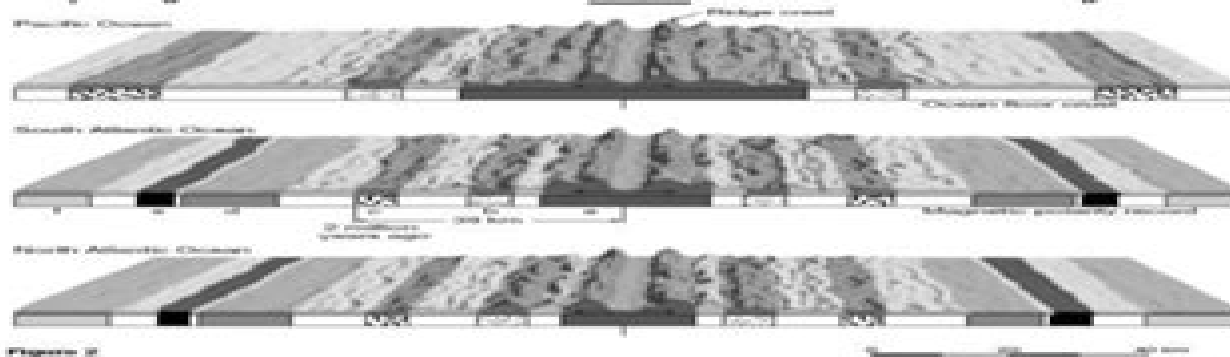
**Begin at the ridge crest and label along both sides of each ridge.*

(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

Scripps Institution of Oceanography



Paleomagnetism And The Ocean Floor Lab Answers:

Unveiling the Power of Verbal Beauty: An Mental Sojourn through **Paleomagnetism And The Ocean Floor Lab Answers**

In a world inundated with displays and the cacophony of quick connection, the profound energy and mental resonance of verbal beauty frequently disappear into obscurity, eclipsed by the constant barrage of noise and distractions. However, nestled within the lyrical pages of **Paleomagnetism And The Ocean Floor Lab Answers**, a captivating work of literary brilliance that impulses with natural feelings, lies an unforgettable journey waiting to be embarked upon. Published with a virtuoso wordsmith, that magical opus manuals readers on a psychological odyssey, softly exposing the latent possible and profound impact embedded within the intricate internet of language. Within the heart-wrenching expanse of this evocative evaluation, we shall embark upon an introspective exploration of the book is main subjects, dissect their fascinating writing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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