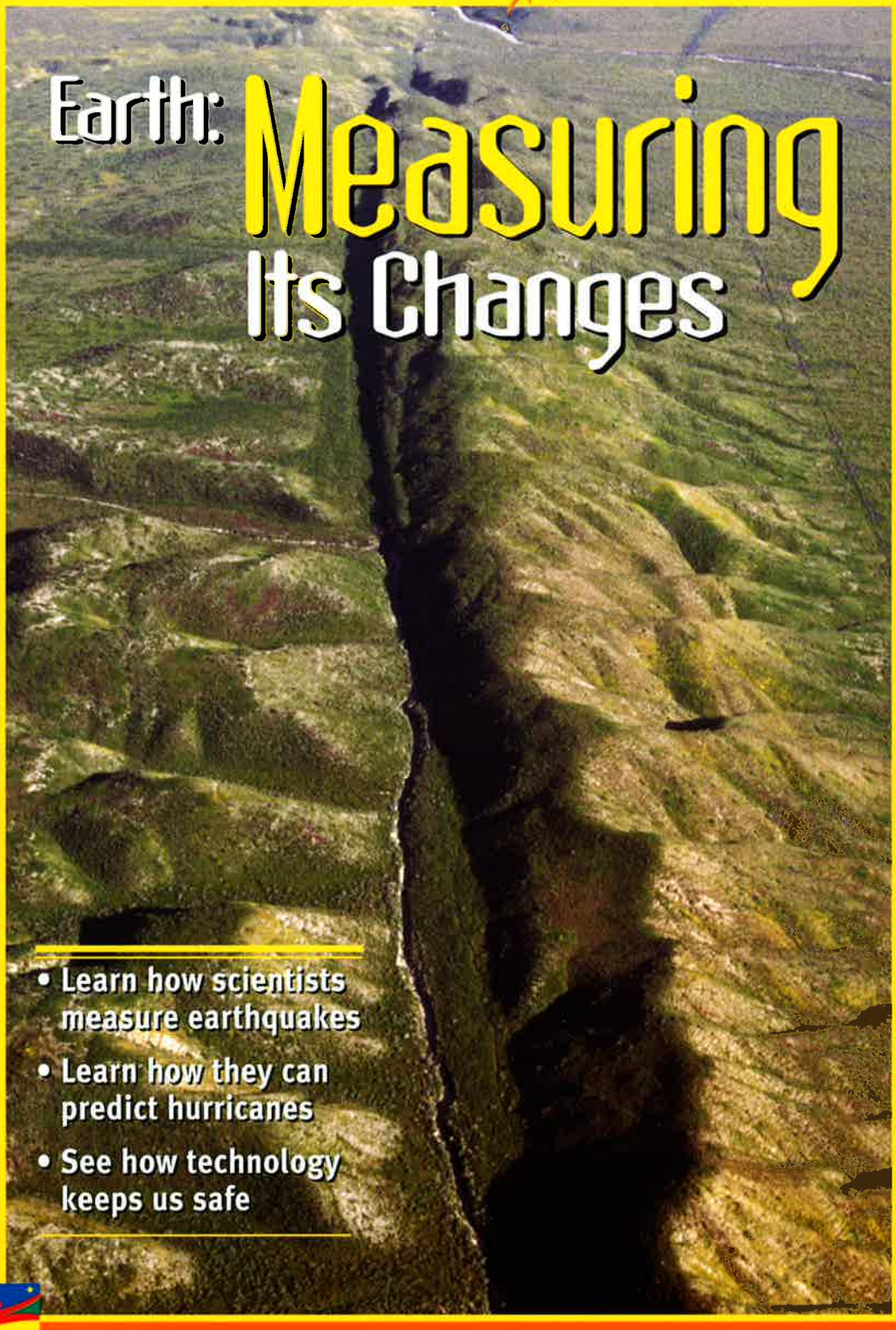
BRIDGES™

Earth: Measuring Its Changes



- Learn how scientists measure earthquakes
- Learn how they can predict hurricanes
- See how technology keeps us safe

BARBARA M. LINDE

Benchmark EDUCATION



SCIENCE AND MATH
What Changes Our Earth
Level 28 M

For teachers' inspection ONLY

READING

Comprehension Skill:

Draw Conclusions

As you read, look for many clues and pieces of evidence that help you draw conclusions. Conclusions are not stated in the book but have enough evidence to be proven.

Phonics/Word Study:

Long a Digraphs

As you read, look for words with long **a** digraphs, like **layers**. This sound in a syllable rhymes with the word **day**.

Look for these text and graphic features.

Text Features

- Table of contents
- Introduction
- Sidebars
- Conclusion
- Glossary
- Index
- Information about the author
- Vocabulary words in boldfaced type
- Captions for photos, diagrams, and illustrations
- Checkpoints. Check yourself to see that you understand what you have read. Pages 12, 28

Graphic Features

- Photographs
- Maps. Pages 5, 13
- Labeled diagrams. Pages 4, 6

SCIENCE

The Big Idea:

This book describes how scientists measure changes in Earth. It explains how earthquakes, glaciers, water, and wind can change the face of Earth over time.

Look for these special information features.

Content Sidebars

- It's a Fact. Interesting facts about measuring Earth's changes. Pages 5, 13, 25
- Solve This. Solve these math problems to learn more about measuring Earth's changes. Pages 8, 9, 14, 15, 17, 18, 23
- Everyday Science. See how science is part of your daily life. Page 26
- Careers in Science. Learn about jobs for people interested in measuring Earth's changes. Page 10
- They Made a Difference. Meet people who were important to the study of Earth's changes. Pages 9, 21, 28

Content Vocabulary

debris
earthquake
epicenter
erosion
fault
force
glacier
plate
seismograph
seismologist
tsunami

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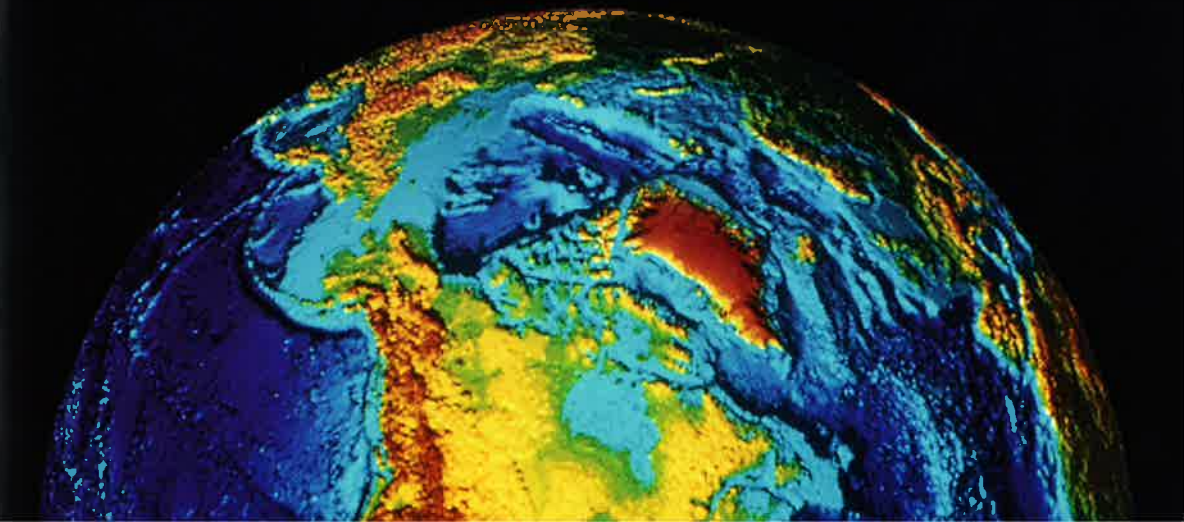
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Earth: Measuring Its Changes

by Barbara M. Linde

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Pictures To Think About

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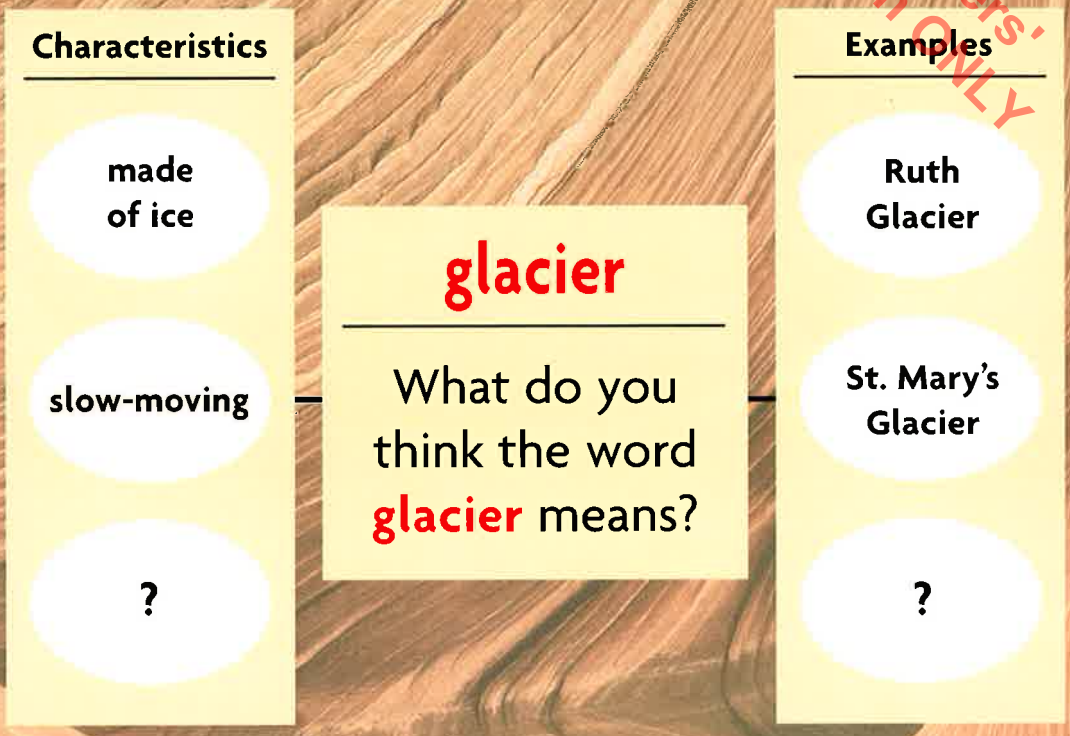


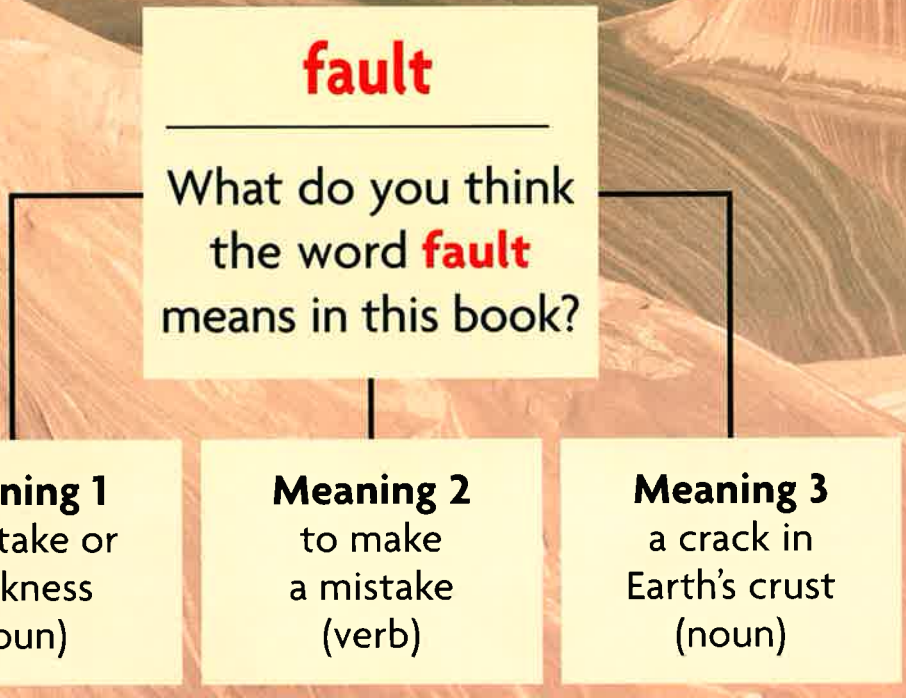




Words To Think About

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Read for More Clues
erosion, page 2
fault, page 5
glacier, page 2

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erosion

What do you think the word **erosion** means?

What can cause erosion?

- wind
- ?
- rain

What can erosion do?

- wash away beaches
- ?
- wear away mountains

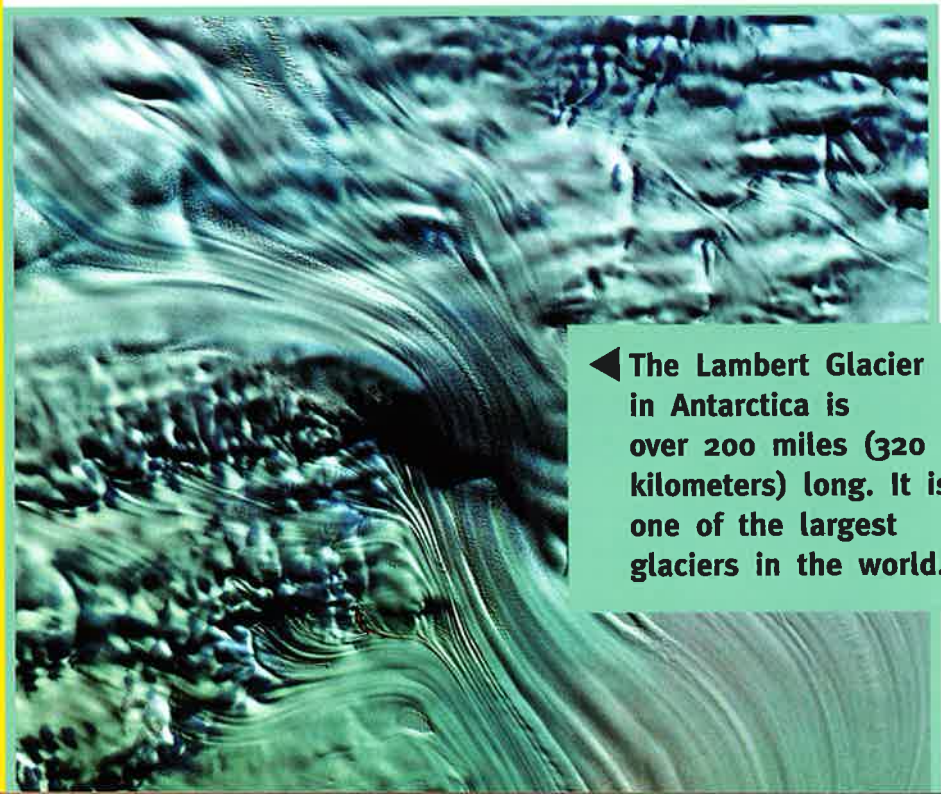


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Introduction

Earth is changing all the time. Different **forces** (FORS-uz) cause these changes. What are these forces?

Earthquakes (ERTH-kwakes) are a kind of force. They can change Earth's shape very fast. **Glaciers** (GLAY-sherz) are another force. Glaciers are giant chunks of ice. They move rocks and dirt. Wind and water are forces, too. They can cause **erosion** (ih-ROH-zhun). Erosion is the wearing away of dirt, rocks, and sand.



◀ The Lambert Glacier in Antarctica is over 200 miles (320 kilometers) long. It is one of the largest glaciers in the world.