TECHNOLOGY AND

New technologies are being used to detect strains in the earth

NEW TECHNOLOGIES

There is much happening in the earth that we can now detect using new technologies.
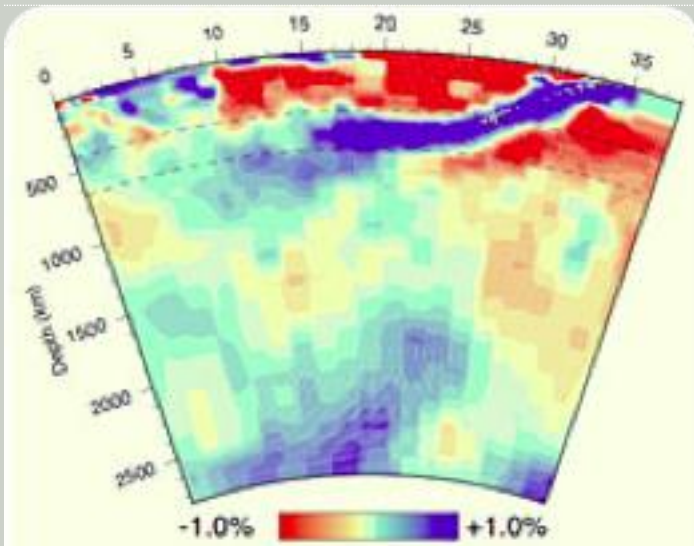
Seismic image showing Japan-Pacific plate (blue, top R) subducting beneath Eurasia.

to detect plate movement. There are seismographs that detect vibrations deep underground or near volcanic vents. Pick a technology and outline how it works and how results are interpreted. Some questions to consider:

1. How reliable is the data obtained using this technology?

2. Can the data obtained be used to predict future events? If so, how reliable are the predictions.

CATEGORY	4	3	2	1
Knowledge Quality of Information /12	Information clearly relates to the main topic. It includes several supporting details and/or examples. 12	Information clearly relates to the main topic. It provides 1-2 supporting details and/or examples. 10	Information clearly relates to the main topic. No details and/or examples are given. 8	Information has little or nothing to do with the main topic. 6
Thinking Discussion /12	Information is very organized with well-constructed paragraphs and subheadings. Comparisons are excellent with many (3 or more) examples 12	Information is organized with well-constructed paragraphs. Comparisons are good with 2 examples 10	Information is organized, but paragraphs are not well-constructed. Comparisons are adequate with an example 8	The information appears to be disorganized. Comparisons are poorly done with no examples or evidence 6
Communication Diagrams, Illustrations, Sources /12	Diagrams and illustrations are neat, accurate and add to the reader's understanding of the topic. All sources (information and graphics) are accurately documented in the desired format. 12	Diagrams and illustrations are accurate and add to the reader's understanding of the topic. All sources (information and graphics) are accurately documented, but a few are not in the desired format. 10	Diagrams and illustrations are neat and accurate and sometimes add to the reader's understanding of the topic. All sources are accurately documented, but many are not in the desired format.8	Diagrams and illustrations are not accurate OR do not add to the reader's understanding of the topic. Some sources are not accurately documented. 6
Application /12	1 connections are made between this technology and all of science, society, and the environment	2 connections are made between this technology and all of science, society, and the environment	3 connections are made between this technology and all of science, society, and the environment	4 connections are made between this technology and all of science, society, and the environment

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