

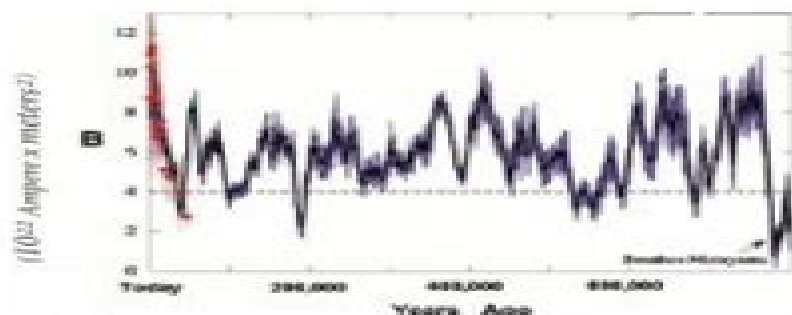
Activity 8 - Geomagnetism II: Magnetic Reversals

TEACHER'S GUIDE

Earth's magnetic field does, in fact, flip its poles every 300,000 years or so. Currently the South Magnetic Pole is in the Northern Hemisphere in northern Canada. Magnetized compass needles marked with 'N' are actually north-type magnetic poles that are attracted to the south-type polarity of the South Magnetic Pole. About 800,000 years ago, it was Earth's North Magnetic Pole that was located in our Arctic Region. The plot below shows that there have been many times in the last 800,000 years when the strength has dipped well below 50% of its current value (8.0×10^{22} Ampere \times meters²). During the last magnetic reversal that happened 780,000 years ago, the value of B reached almost zero. Also, the rate of change of the field was very rapid. Is there a magnetic reversal in our future? This seems very likely, but it's nearly impossible to predict exactly when this might happen.

GOALS

- 1) Students will recognize how Earth's magnetic field strength has changed over the last 800,000 years.
- 2) Students will determine at what time Earth's magnetic field will reach zero.



MATERIALS

- Graph paper

PROCEDURE

In this activity, students will plot the changes in Earth's magnetic field during the last 800,000 years, and investigate answers to some important questions about past magnetic variations and future magnetic reversals. The data for the student table used in this study and plotted in the figure above are from the research by Yohan Guyodo and Jean-Pierre Valet at the Institute de Physique in Paris and were published in the journal *Nature* on May 20, 1999 (pages 249-252). Note, the units used in the figure above to represent the magnetic dipole strength, B, are 10^{22} Ampere \times meters². The dashed line represents the approximate lowest intensity of the magnetic field for which reversals are not likely to be a significant issue.

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Science Citation Index ,1992 Vols for 1964 have guides and journal lists **Reversals of the Earth's Magnetic Field** J. A. Jacobs,2005-07-14 This book deals with the particular case of reversals of the Earth's magnetic field These have played a major role in the development of plate tectonics and in establishing a geological time scale The magnetism of rocks is discussed in some detail with a warning of possible misinterpretations of the record The latest observational results and theories are reviewed with special attention to the structure and geometry of the transition field Changing conditions at the core mantle boundary their effect on reversals the generation of plumes and the possible correlation of reversals with tectonic changes ice ages or mass extinctions are thoroughly discussed including suggested periodicities in the reversal record and in other geophysical data **Reversals of the Earth's Magnetic Field** John Arthur Jacobs,1984 *Reversals of the Earth's Magnetic Field* John A. Jacobs,1976

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