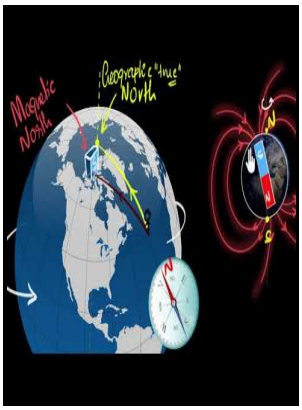
Earths magnetism.

- - Magnetism



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Measuring Earth's Magnetism

Magnetic Field Of Earth - Earth's Magnetism If you have ever used a compass either the traditional mechanical one or the one built in your Smartphone , then you know it always points north. It is straight down at the and rotates upwards as the latitude decreases until it is horizontal 0° at the magnetic equator.

EMAG2 : Earth Magnetic Anomaly Grid (2

. A , caused by the overall planetary rotation, tends to organize the flow into rolls aligned along the north—south polar axis. The types of metals that are attracted to magnets are iron, nickel, and cobalt.

AAmag

These lines always close on themselves, so that if they enter a certain volume at some point, they must also leave that volume. Then a Danish scientist, Hans Christian Oersted, while demonstrating to friends the flow of an electric current in a wire, noticed that the current caused a nearby compass needle to move.

Earth's Magnetism: Definition, Cause, Theory, Components

If you were to stand directly over the magnetic pole with a compass, the needle would point straight downward.

Magnetic Field of the Earth

Reversals also provide the basis for , a way of rocks and sediments. It has a magnetic north and a magnetic south, which is what the needle on a compass points to. It induced currents strong enough to short out telegraph lines, and aurorae were reported as far south as Hawaii.

8 Strange Facts About Magnets and Magnetism

The mechanism by which the Earth generates a magnetic field is known as a. The lowest-degree Gauss coefficient, g 0 0, gives the contribution of

an isolated magnetic charge, so it is zero.

Measuring Earth's Magnetism

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NASA

The dipole is roughly equivalent to a powerful bar , with its south pole pointing towards the geomagnetic North Pole. Iron magnets are a very special case, which Ampere was also able to explain. The geomagnetic field changes on time scales from milliseconds to millions of years.

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