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The real reason to be frightened is that we really don't understand what causes the pattern. We don't know why the ice ages are broken by the short interglacials. We do know something - that the driving force is astronomical. We'll describe how we know that in Chapter 2.

Chapter 1 of Ice Ages and Astronomical Causes

Buy Ice Ages and Astronomical Causes: Data, spectral analysis and mechanisms (Springer Praxis Books / Environmental Sciences) by Muller, Richard A., MacDonald, Gordon J. (2002) Hardcover by (ISBN:) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

Ice Ages and Astronomical Causes: Data, spectral analysis ...

A great deal has happened in the theory of the ice ages over the last decade, and it is now widely accepted that ice ages are driven by changes in the Earth's orbit. This work studies ice ages, covering geology, physics, glaciology, oceanography, atmospheric science, planetary orbit calculations astrophysics and statistics.

Ice Ages and Astronomical Causes: Data, spectral analysis ...

Milankovitch said the ice ages are caused by variations in sunlight hitting the continents. In his theory, the ice ages are linked to "eccentricity," a very gradual, cyclic change in the shape of the Earth's egg-shaped orbit around the sun that completes a cycle roughly every 100,000 years.

Astronomical Theory Offers New Explanation For Ice Age

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Ice ages are driven by a complex, interconnected set of factors, involving Earth's position in the solar system and more local influences, like carbon dioxide levels. Scientists are still trying to...

Why Do Ice Ages Happen? | Live Science

Nearly as soon as the ice ages were discovered, their origin was attributed to astronomical causes. In the late 1800s, James Croll assumed that the ice ages were driven by changes in insolation...

Glacial Cycles and Astronomical Forcing | Science

Ice Ages and Astronomical Causes is concerned with one of the most active interdisciplinary areas of the present day, with new discoveries and data emerging all the time. This information must be carefully and rigorously analysed using sophisticated mathematical techniques, and the authors successfully explain both the data an the methods of analysis.

Ice Ages and Astronomical Causes: Data, spectral analysis ...

The Quaternary glaciation, also known as the Pleistocene glaciation, is an alternating series of glacial and interglacial periods during the Quaternary period that began 2.58 Ma, and is ongoing. Although geologists describe the entire time period as an "ice age", in popular culture the term "ice age" is usually associated with just the most recent glacial period during the Pleistocene. Since planet Earth still has ice sheets, geologists consider the Quaternary glaciation to be ongoing, with the

Quaternary glaciation - Wikipedia

A century ago, Serbian scientist Milutin Milankovitch hypothesized the long-term, collective effects of changes in Earth's position relative to the Sun are a strong driver of Earth's long-term climate, and are responsible for triggering the beginning and end of glaciation periods (Ice Ages).

Milankovitch (Orbital) Cycles and Their Role in Earth's ...

A great deal has happened in the theory of the ice ages over the last decade, and it is now widley accepted that ice ages are driven by changes in the Earth's orbit. The study of ice ages is very...

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Ice Ages and Astronomical Causes: Data, spectral analysis ...

Nearly as soon as the ice ages were discovered, their origin was attributed to astronomical causes. In the late 1800s, James Croll assumed that the ice ages were driven by changes in insolation (solar heating) brought about by variations in the Earth's orbit and spin axis (1, 2).

Glacial Cycles and Astronomical Forcing - Richard A. Muller

Ice Ages and Astronomical Causes: Data, spectral analysis and mechanisms: Muller, Richard A., MacDonald, Gordon J.: Amazon.sg: Books

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6. Lastly, the book is very well written and quite accessible to people with technical maturity in Physics, Astronomy, Atmospheric Sciences, and Engineering. The main thesis of the book is that the occurrence of the ice ages is a feature of climate of Earth that is forced (driven) by astronomical causes.

Amazon.com: Customer reviews: Ice Ages and Astronomical ...

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