

relatively short period of time during which Antarctica became abruptly much warmer."

brief but rapid period of warming about 15 million years before present.

These palynomorphs, a term used to described dust-size organic material such as pollen, spores and cysts of dinoflagellates and other algae, provide hard evidence that Antarctica underwent a

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"This event will lead to a better understanding of global connections and climate forcing, in other words, it will provide a better understanding of how external factors imposed fluctuations in Earth's climate system," said Harwood. "The Mid-Miocene Climate Optimum has long been recognized in global proxy records outside of the Antarctic region. Direct information from a setting proximal to the dynamic Antarctic ice sheets responsible for driving many of these changes is vital to the correct calibration and interpretation of these proxy records."

These startling results will offer new insight into Antarctica's climatic past—insights that could potentially help climate scientists better understand the current climate change scenario.

"In the case of these results, the microfossils provide us with quantitative data of what the environment was actually like in Antarctica at the time, showing how this continent reacted when climatic conditions were warmer than they are today," said Warny.

According to the researchers, these fossils show that land temperatures reached a January average of 10 degrees Celsius—the equivalent of approximately 50 degrees Fahrenheit—and that estimated sea surface temperatures ranged between zero and 11.5 degrees Celsius. The presence of freshwater algae in the sediments suggests to researchers that an increase in meltwater and perhaps also in rainfall produced ponds and lakes adjacent to the Ross Sea during this warm period, which would obviously have resulted in some reduction in sea ice.

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## antarctica

oh well it was once warm in what has been known to us as a cold place that has been cold for a longtime. maybe we humans are not at fault, but rather the earth is in one of its cycles. are these the same scientist that just noticed tha when you have an earthquake in one area of the ring of fire, you might just get one further down the line? IT IS CALLED THE RING OF FIRE it is all connected. this is a read duh!! I figured this out without a college education. It is called commonsense.

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