

imposed by data from the field," the co-chiefs pointed out. "Measurements of parameters such as age, temperature, and carbon dioxide concentration provide invaluable inputs that help increase the accuracy of these models. The more we can constrain the models, the better they'll perform -- and the better we can predict ice sheet behavior."

What's next? The science team now embarks on a multi-year process of on-shore analyses to further investigate the Wilkes Land cores. Age-dating and chemistry studies among other analyses are expected to resolve changes in Antarctica's climate over unprecedented short timescales (50-20,000 years). Data collected from the Wilkes Land expedition will complement previous research from drilling operations conducted elsewhere in the Antarctic over the last 40 years. Together, this research will provide important age constraints for models of Antarctic ice sheet development and evolution, thereby forming the basis for models of future ice sheet behavior and polar climatic change.

IODP is an international marine research program dedicated to advancing scientific understanding of the Earth through drilling, coring, and monitoring the sub-seafloor. The JOIDES Resolution is a drilling vessel managed by the U.S. Implementing Organization of IODP (USIO), and funded by the U.S. National Science Foundation (NSF). Together, Texas A&M University, Lamont-Doherty Earth Observatory of Columbia University, and the Consortium for Ocean Leadership comprise the USIO.

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For more information about IODP Expedition 318 -- Wilkes Land Glacial History, visit http://iodp.tamu.edu/scienceops/expeditions/wilkes\_land.html

For video clips from IODP Expedition 318 -- Wilkes Land Glacial History, visit http://www.oceanleadership.org/category/news-and-resources/videos/

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