Antarctic Peninsula Climate Variability: Historical and Paleoenvironmental Perspectives

Eugene Domack (Editor), Amy Leventer (Editor), Adam Burnett (Editor), Robert A. Bindschadler (Editor), Peter Convey (Editor), Matthew Kirby (Editor)

O-Book ISBN: 978-1-118-66845-0 April 2013 Available on Wiley Online Library

DESCRIPTION

Published by the American Geophysical Union as part of the Antarctic Research Series, Volume 79.

The Antarctic Peninsula region represents our best natural laboratory to investigate how earth's major climate systems interact and how such systems respond to rapid regional warming. The scale of environmental changes now taking place across the region is large and their pace rapid but the subsystems involved are still small enough to observe and accurately document cause and affect mechanisms. For example, clarification of ice shelf stability via the Larsen Ice Shelf is vital to understanding the entire Antarctic Ice Sheet, its climate evolution, and its response to and control of sea level. By encompassing the broadest range of interdisciplinary studies, this volume provides the global change research and educational communities a framework in which to advance our knowledge of the causes behind regional warming, the dramatic glacial and ecological responses, and the potential uniqueness of the event within the region's paleoclimate record. The volume also serves as a vital resource for public policy and governmental funding agencies as well as a means to educate the large number of ecotourists that visit the region each austral summer.

ABOUT THE AUTHOR

Eugene Walter Domack was an American geologist. Born in Milwaukee to Benjamin and Vivian Domack, Eugene Domack obtained a bachelor's degree from the University of Wisconsin-Madison and completed graduate studies at Rice University. Amy Leventer is an American Antarctic researcher specialising in micropaleontology, with specific research interests in marine geology,
marine biology, and climate change. Leventer has made over a dozen journeys to the Antarctic, which began at the age of 24 and led to the pursuit of her PhD.