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Millennial-Scale Interhemispheric Asymmetry of Low-Latitude Precipitation: Speleothem Evidence and Possible High-Latitude ForcingAdjustment of the Global Climate to an Abrupt Slowdown of the Atlantic Meridional Overturning Circulation; Impact of the Ocean's Overturning Circulation on Atmospheric CO₂; Antarctic Stratification, Atmospheric Water Vapor, and Heinrich Events: A Hypothesis for Late Pleistocene Deglaciations; Section 7. Future Projections; Response of the Meridional Overturning Circulation During Differing Pathways Toward Greenhouse Gas Stabilization

Projected Strengthening of the Southern Ocean Winds: Some Implications for the Deep Ocean CirculationEffect of the Greenland Ice-Sheet Melting on the Response and Stability of the AMOC in the Next Centuries

Sommario/riassunto

Published by the American Geophysical Union as part of the Geophysical Monograph Series, Volume 173. The ocean's meridional overturning circulation (MOC) is a key factor in climate change. The Atlantic MOC, in particular, is believed to play an active role in the regional and global climate variability. It is associated with the recent debate on rapid climate change, the Atlantic Multi-Decadal Oscillation (AMO), global warming, and Atlantic hurricanes. This is the first book to deal with all aspects of the ocean's large-scale meridional overturning circulation, and is a coh
