

# Geowissenschaftliches Kolloquium

## *Assessing the role of the Indian Ocean for global climate change: lessons from modern and Holocene corals*

Donnerstag, 3. November 2017 - 16.15 Uhr

Miriam Pfeiffer  
(RWTH Aachen)

The Indian Ocean is the smallest of all three major oceans, yet the countries around its rim are home to roughly two-thirds of the world's population. Economically, almost all of these countries still heavily depend on agriculture, and are particularly vulnerable to climate change. Moreover, during the 20th century, the tropical Indian Ocean has warmed faster than any other ocean and appears to be a major contributor to the global temperature rise. Understanding the dynamics of the Indian Ocean is therefore of primary importance. Dr. Pfeiffer will explore the potential of highly resolved paleo-biological archives to infer the nature and causes of Indian Ocean warming, and its consequences for climate and hydrology in the region.



**Dr. Pfeiffer** is a Heisenberg fellow at RWTH Aachen University. For her habilitation thesis on coral paleoclimatology she was awarded the Friedrich Wilhelm award of RWTH Aachen University. She has worked at the GEOMAR in Kiel, at Sapporo University and at the University of Cologne. Her work has focused on the use of seasonally resolved biological archives from various parts of the world.

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