KlimaCampus Hamburg

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KlimaCampus Colloquium

Weiqing Han

Regional decadal sea level variability associated with internal climate modes

Sea level rise (SLR) can exert significant stress on highly populated coastal societies and low-lying island countries around the world. Regionally, SLR can deviate considerably from the global mean due to various geophysical processes, including changes of ocean circulations, which can be partly attributed to natural, internal climate modes of the climate system. The presentation first provides an overview on our current state of knowledge about regional patterns of decadal sea level variability associated with natural climate modes over the Atlantic, Pacific and Indian Ocean basins. Then, we report the results from our recent modeling and observational studies to provide detailed examinations on (1) the Indian Ocean decadal sea level variations: roles of climate modes, ocean internal variability and stochastic wind forcing, and (2) causes for the decadal change of the North Atlantic Oscillation (NAO) impact on US Northeast coast SLR.

Weiqing Han from the University of Colorado at Boulder is invited by Detlef Stammer and Armin Köhl from the Institute of Oceanography

Bundesstraße 53, Room 22/23 (ground floor)