

Disentangling the Ocean-Atmosphere Interactions in the North Atlantic

Objective

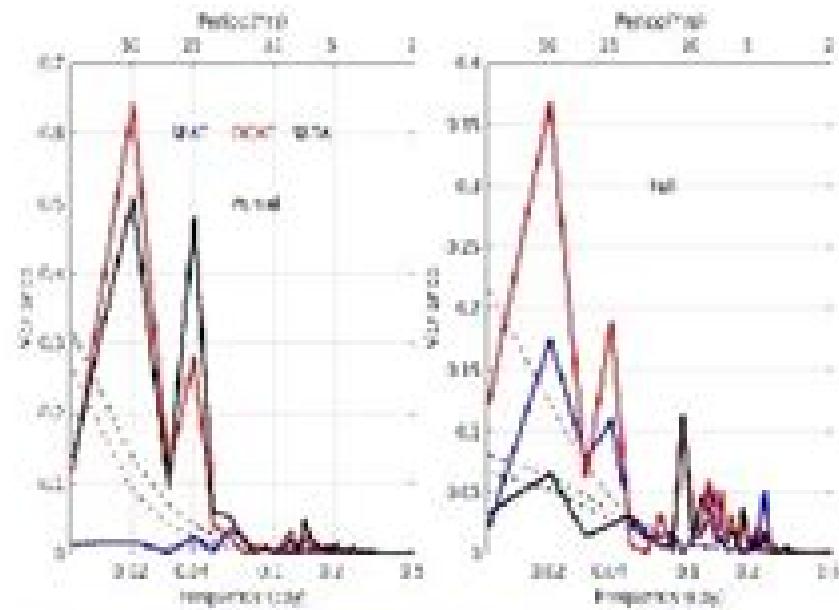
- Isolate the roles of the ocean and atmosphere and their interaction in generating Atlantic Multidecadal Variability (AMV)

Approach

- Decompose ocean temperature variability into ocean circulation variability and surface heat flux exchange between components
- Decouple the exchanges associated with ocean driven temperature anomalies from those driven by the atmosphere to produce a "partially coupled" simulation
- Compare North Atlantic variability in fully- and partially-coupled mode to identify the mechanisms that drive and dissipate that variability

Impact

- This study identifies some of the important physical mechanisms responsible for SST changes and heat transport in the North Atlantic, with the main driver of variability due to ocean-driven circulation features
- Models with a weak AMV compared to observations probably have too-strong surface coupling



Power spectra of the AMV index (black) and their ocean-driven (red) and surface-driven (blue) components in the partially (left) and fully (right) coupled simulations. Note the ordinate range change in the two panels.

The difference in amplitude of the variance and relative importance of surface and ocean variability in the two simulations indicates that ocean circulation features drive the AMV, and surface heat fluxes help to dissipate the variability.

Caruso OA, J Lu, MH Singh, F Liu, and PJ Rasch Jr. 2018. "On the relative roles of the atmosphere and ocean in the Atlantic multidecadal variability." *Geophysical Research Letters*, 45 9186-9196. DOI:10.1029/2018GL078821.

Oceanatmosphere Interactions

**Michael A. Kelly, Colorado State
University. Department of
Atmospheric Science**

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Ocean-Atmosphere Interactions Y. Toba,2010-12-04 This book presents an up to date analysis of ocean atmosphere interaction Well known experts examine diverse subjects such as ocean surface waves air sea exchange processes ocean surface mixed layer water mass formation as well as general circulation of the oceans El Nino and Southern Oscillation ENSO and the deep ocean circulation Other areas described are basic dynamics data analysis techniques numerical modelling and remote sensing This book is primarily aimed at graduate and senior undergraduate courses in the area of ocean atmosphere research

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Ocean Atmosphere Interaction and Climate Modeling Boris A.

Kagan,1995-03-09 A comprehensive 1995 treatment of all aspects of ocean atmosphere interactions for advanced students and professional researchers *A Simple Model of Ocean-atmosphere Interactions in the Topical Climate System* Michael A. Kelly,Colorado State University. Department of Atmospheric Science,1999

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Climate Modeling Boris A. Kagan,2006-04-20 This book aims to acquaint readers with the recent advances in experimental and theoretical investigations of ocean atmosphere interactions a rapidly developing field in earth sciences Particular attention is paid to the scope and perspectives for satellite measurements and mathematical modeling Current approaches to the construction of coupled ocean atmosphere models from the simplest one dimensional to comprehensive three dimensional ones for the solution of key problems in climate theory are discussed in detail Field measurements and the results of numerical climate simulations are presented and help to explain climate variability that arises from various natural and anthropogenic factors *Ocean-atmosphere Interactions* European Geophysical Society,1995

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Wang,2004-01-09 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 147 It is more than 30 years since the publication of Jacob Bjerknes groundbreaking ideas made clear the importance of ocean atmosphere interaction in the tropics It is now more than 20 years since the arrival of a massive El Ni o in the fall of 1982 set off a cascade of observational and theoretical studies During the following decades the climate research community has made exceptional progress in refining our capacity to observe earth s climate and theorize about it including new satellite based and in situ monitoring systems and coupled ocean atmosphere predictive numerical models Of equal importance is the expanding scope of research which now reaches far beyond the Pacific El Ni o and includes climate phenomena in other ocean basins In order to cover the now global context of ocean atmosphere interaction we have organized this monograph around five principal themes each introduced by one or more broad overview papers Theme I covers interaction and climate variability in the Pacific sector with extensive discussion of El Ni o Southern Oscillation and with the possible causes and consequences of variability on both shorter and longer timescales Theme II is devoted to interaction in the Atlantic sector This basin exhibits complex behavior reflecting its geographic location between two major zones of convection as well as neighboring the tropical Pacific Theme III reviews the recent exciting progress in our understanding of climate variability in the Indian sector Theme IV addresses the interaction between the tropics and the extratropics which are linked through the presence of shallow meridional overturning cells in the ocean Finally Theme V discusses overarching issues of cross basin interaction *A Simple Model of Ocean-atmosphere Interactions in the Tropical Climate System* Michael A. Kelly,1998

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