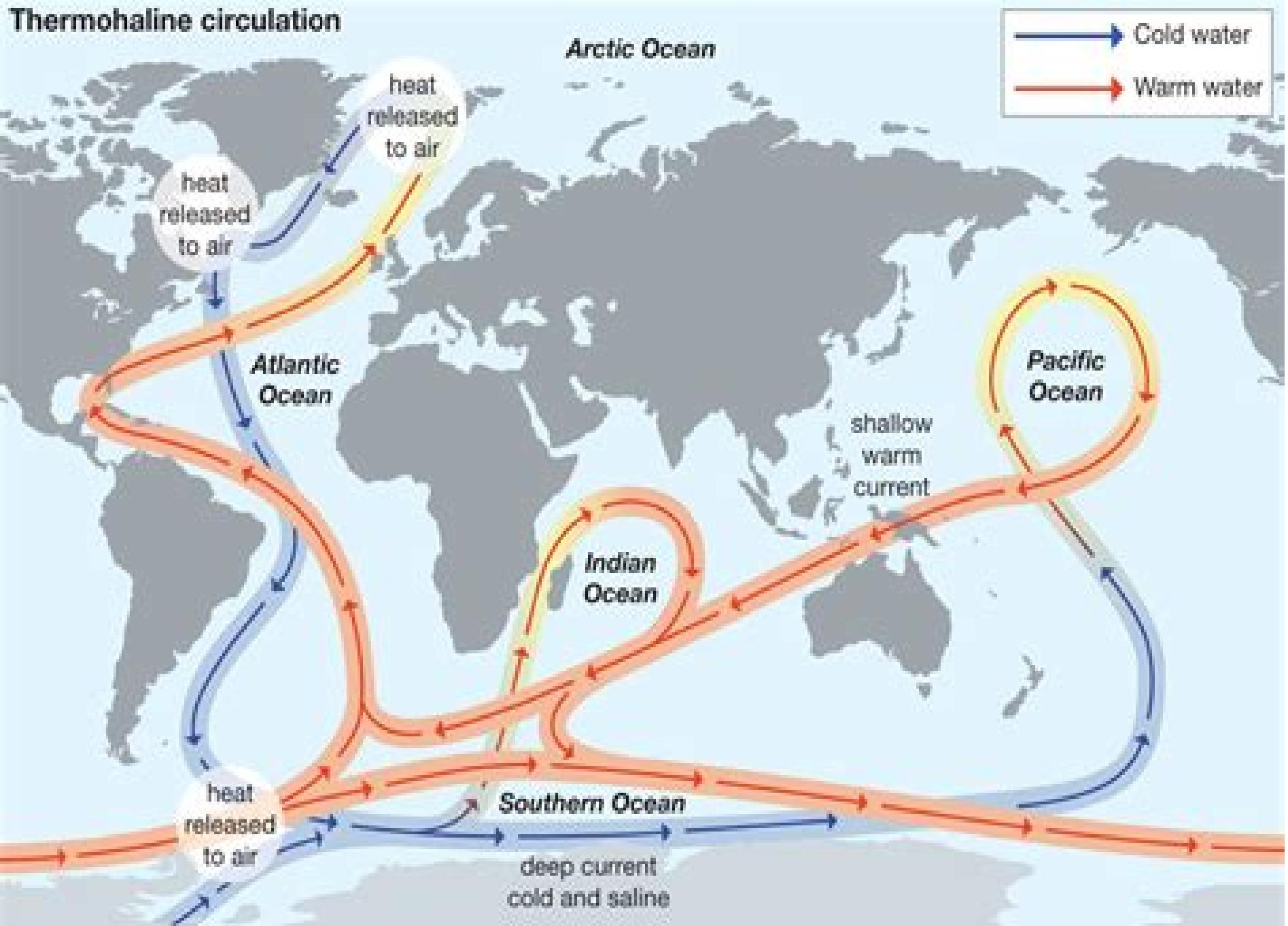


Thermohaline circulation



Ocean Circulation And Climate

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Ocean

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,2013-10-22 The book represents all the knowledge we currently have on ocean circulation It presents an up to date summary of the state of the science relating to the role of the oceans in the physical climate system The book is structured to guide the reader through the wide range of world ocean circulation experiment WOCE science in a consistent way Cross references between contributors have been added and the book has a comprehensive index and unified reference list The book is simple to read at the undergraduate level It was written by the best scientists in the world who have collaborated to carry out years of experiments to better understand ocean circulation Presents in situ and remote observations with worldwide coverage Provides theoretical understanding of processes within the ocean and at its boundaries to other Earth System components Allows for simulating ocean and climate processes in the past present and future using a hierarchy of physical

biogeochemical models

Ocean Circulation and Climate Shiro Imawaki,Amy S. Bower,Lisa Beal,Bo Qiu,2013-10-22 Strong persistent currents along the western boundaries of the world s major ocean basins are called western boundary currents WBCs This chapter describes the structure and dynamics of WBCs their roles in basin scale circulation regional variability and their influence on atmosphere and climate WBCs are largely a manifestation of wind driven circulation they compensate the meridional Sverdrup transport induced by the winds over the ocean interior Some WBCs also play a role in the global thermohaline circulation through inter gyre and inter basin water exchanges After separation from the boundary most WBCs have zonal extensions which exhibit high eddy kinetic energy due to flow instabilities and large surface fluxes of heat and

carbon dioxide The WBCs described here in detail are the Gulf Stream Brazil and Malvinas Currents in the Atlantic the Somali and Agulhas Currents in the Indian and the Kuroshio and East Australian Current in the Pacific Ocean *Ice Drift, Ocean Circulation and Climate Change* Jens Bischof,2000-11 The issue of global warming and climate change is of continuous concern Since the 1970s it has been shown that the pack ice around the Arctic Ocean is thinning the margin of permafrost is moving north and the vegetation in the high northern parts of the world is changing the greening of the Arctic But are these changes the result of human activity or simply regular variations of the Earth's climate system Over thousands of years a continuous archive of iceberg and sea ice drift has formed in the deep sea sediments revealing the place of the ice's origin and allowing a reconstruction of the surface currents and the climate of the past However the drift of floating ice from one place to another is not just a passive record of past ocean circulation It actively influences and changes the surface ocean circulation thus having a profound effect on climate change *Ice Drift Ocean Circulation and Climate Change* is the first book to focus on the interactions between ice the ocean and the atmosphere and to describe how these three components of the climate system influence each other It makes clear the positive contribution of paleoclimatology and paleoceanography and should be read by anyone concerned with global warming and climate change *Ocean Circulation and Climate* Swadhin Behera,Peter Brandt,Gilles Reverdin,2013-10-22 The tropical oceans play important roles in the global climate system through ocean transports of heat and freshwater as well as ocean atmosphere interactions The developments in observational networks during recent decades have helped us to quantify the strength and variability of most of the ocean general circulations responsible for the transports Those are discussed in detail in individual sections covering each tropical basin separately with a special emphasis on recent research results Shallow overturning cells observed in all three tropical basins as well as the deep Atlantic meridional overturning circulation are such examples that are linked to ocean and climate variations on multiple timescales In addition tropical ocean atmosphere interactions associated with oceanic planetary waves cause large scale climate variations such as El Niño Southern Oscillation ENSO Indian Ocean Dipole Atlantic Niño and ENSO Modoki Recent advances in numerical modeling augmented by in situ and satellite observations are helping the research community to understand ocean process and to predict associated climate variations on seasonal to longer timescales

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for global climate and provide insight into the response of the Southern Ocean circulation to changes in forcing **Ocean Circulation** Andreas Schmittner, John C. H. Chiang, Sidney R. Hemming, 2013-05-02 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 coherent presentation from a mechanistic point of view of our current understanding of paleo, present day and future variability and change. It presents the current state of the science by bringing together the world's leading experts in physical, chemical and biological oceanography, marine geology, geochemistry, paleoceanography and climate modeling. A mix of overview and research papers makes this volume suitable not only for experts in the field but also for students and anyone interested in climate change and the oceans. [Ocean Circulation and Climate](#) Sybren S.

Drijfhout, David P. Marshall, Henk A. Dijkstra, 2013-10-22 Conceptual models are a vital tool for understanding the processes that maintain the global ocean circulation both in nature and in complex numerical ocean models. In this chapter we provide a broad overview of our conceptual understanding of the wind driven circulation, the thermohaline circulation and their transient behavior. While our conceptual understanding of the time mean wind driven circulation is now fairly mature, basic questions remain regarding the thermohaline circulation for example surrounding its overall strength and stability. Similarly, basic questions remain regarding the transient adjustment and internal variability of the ocean circulation. [Ocean circulation and climate change](#), 1990. [Ocean Circulation and Climate](#) Peter R. Gent, 2013-10-22 Coupled climate models consist of atmosphere, ocean, land and sea ice components. Most climate models now do not need to use flux adjustments to maintain the present day climate in a control run when the forcings have a repeating annual cycle or are constant in time. A control run must simulate well known important large scale phenomena such as the El Niño Southern Oscillation and the North Atlantic overturning circulation. Climate models are used to simulate the climate of the twentieth century and to make projections of the future climate. The uses and limitations of climate models are then described and several cutting edge issues are discussed.

Ocean Circulation Rui Xin Huang, 2010 The interaction between ocean circulation and climate change has been an active research frontier in Earth sciences in recent years. Ocean circulation and its related geophysical fluid dynamical principles are now taught at graduate level in many Earth and atmospheric science departments. This is the first advanced textbook to discuss both wind driven and thermohaline driven processes, two important aspects of large scale ocean circulation. It provides a concise introduction to the dynamics and thermodynamics of oceanic general circulation. This includes sea water thermodynamics and the energetics of the ocean circulation, an exhaustive theory of wind driven circulation, thermohaline circulation with discussions on water mass formation, erosion, deep circulation and the hydrological

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necessarily global changes This new paradigm of abrupt climate change does not appear to be on the radar screens of military planners who treat climate change as a long term low level threat with mostly sociological not national security implications But intense and abrupt climate changes could escalate environmental issues into unanticipated security threats and could compromise an unprepared military The global ocean circulation system often called the Ocean Conveyor can change rapidly and shift the distribution patterns of heat and rainfall over large areas of the globe The North Atlantic region is particularly vulnerable to abrupt regional coolings linked to ocean circulation changes Global warming and ocean circulation changes also threaten the Arctic Ocean s sea ice cover Beyond the abrupt climatic impacts fundamental changes in ocean circulation also have immediate naval implications Recent evidence suggests that the oceans already may be experiencing large scale changes that could affect Earth s climate Military planners should begin to consider potential abrupt climate change scenarios and their impacts on national defense *Ocean Circulation* Andreas Schmittner,John C. H.

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central to our changing climate helping students and researchers develop an interdisciplinary approach to global environmental change **The Ocean's Role in Global Change** National Research Council, Division on Earth and Life Studies, Commission on Geosciences, Environment and Resources, Ocean Studies Board, 1994-02-01 What role does the ocean play in global climate change Although not fully understood there is general agreement that it is significant Therefore the scientific community has initiated large scale research programs based on studies of the ocean and its relation to global climate and climate related processes This volume provides brief summaries and reports on the progress of the major oceanographic research programs It looks at both programs that study processes that occur over periods ranging from days to hundreds of years the contemporary system and those that seek to understand long term variations ranging from thousands to millions of years the geological perspective

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