

the variability of water temperature (thermo) and salinity (haline), also cause ocean currents. This process is known as thermohaline circulation. In cold regions, such as the North Atlantic Ocean, ocean water loses heat to the atmosphere and becomes cold and dense.

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Climate models project large changes in ocean circulation in response to increasing greenhouse gases. Atlantic meridional overturning circulation (AMOC) declines from 0% to more than 50% are projected for the twenty-first century (Solomon et al. 2007). Southern Ocean circulation response is also large and model dependent (Russell et al. 2006).

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[1] In recent years, the Indian Ocean (IO) has been discovered to have a much larger impact on climate variability than previously thought. This paper reviews climate phenomena and processes in which the IO is, or appears to be, actively involved. We begin with an update of the IO mean circulation and monsoon system.

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Climate change also affects ocean circulation, the movement of water around the ocean. Normally in the Atlantic Ocean, warm salty water is brought north by the Gulf Stream, cooling as it moves, and begins to sink just off the coast of Greenland. This phenomenon, known as Atlantic Meridional Overturning Circulation (AMOC), is responsible for ...

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The Western Tropical Pacific (WTP) Ocean holds the largest area of warm water ($>28^\circ\text{C}$) in the world ocean referred to as the Western Pacific Warm Pool (WPWP), which modulates the regional and global climate through strong atmospheric convection and its variability. The WTP is unique in terms of its complex 3-D ocean circulation system and intensive multiscale variability, making it crucial in ...

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