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Climate change also affects  
ocean circulation, the

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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,

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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



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is, or appears to be, actively involved. We begin with an update of the IO mean circulation and monsoon system.

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components of the climate  
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response of the box model to  
an idealized Pinatubo  
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year) in the 1- (red) and  
2-box cases (blue) in terms  
of the ratio of ocean mixing  
strength to the climatic

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feedback parameter  $\lambda = q/\Delta T$   
with  $q = 1.5 \text{ W m}^{-2} \text{ K}^{-1}$ . All  
other parameters are as in  
Table 1. The “area under the  
curve” is the same in all  
cases ...

**The Climate Response to**

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cold regions, such as the North Atlantic Ocean, ocean water loses heat to the atmosphere and becomes cold and dense.

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sea surface, inducing a momentum exchange, and (2) thermohaline circulation driven by the variations in water density imposed at the sea surface by exchange of ocean heat and water with the ...

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meridional overturning  
circulation (AMOC) declines  
from 0% to more than 50% are  
projected for the twenty-  
first century (Solomon et  
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circulation response is also  
large and model dependent

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( $>28^{\circ}\text{C}$ ) 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

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unique in terms of its  
complex 3-D ocean  
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**Review on observational**

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control via Arctic Ocean  
warming, freshening, and  
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