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picked up, making
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variability than
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This paper reviews
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[PDF] Indian Ocean
circulation and
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...

Climate change
also affects ocean
circulation, the
movement of water
around the ocean.

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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),

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is responsible for...
This is how climate
change is
reshaping the
entire planet
[1] In recent years,
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(IO) has been
discovered to have
a much larger
impact on climate
variability than
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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.

Indian Ocean

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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

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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.

Ice Drift, Ocean
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response of the
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eruption (-4 W m^{-2}
for a year) in

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parameter $\mu = q/\lambda$

with $\lambda = 1.5 \text{ W m}^{-2} \text{ K}^{-1}$. All other

parameters are as

in Table 1. The

“area under the

curve” is the same

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Differences in
water density,

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resulting from 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
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water loses heat to

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the atmosphere
and becomes cold
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exchange, and (2)

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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

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dependent (Russell
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The Western

Tropical Pacific

(WTP) Ocean holds
the largest area of
warm water

(>28°C) in the

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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

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warming,
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dynamics that link to the sea ice, atmosphere, and terrestrial environment. Given the rapid pace of Arctic change, it is vital to take stock of present understanding of the ocean circulation to address knowledge

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