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By American Meteorological Society Ocean  
We advance understanding through high-impact, peer-reviewed scientific publications—including the Bulletin of the American Meteorological Society (BAMS). Community We bring together atmospheric scientists, professionals, students, authors, educators, researchers, and weather enthusiasts from around the world to share and collaborate.

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AMS Ocean Studies is an introductory college-level course developed by the American Meteorological Society for implementation at undergraduate institutions nationwide. Produced in cooperation with the National Oceanic and Atmospheric Administration and prepared by an experienced team of oceanographers and science educators, AMS Ocean Studies places students in a dynamic educational environment where they investigate the role of the ocean in the Earth system by using real-world current ...

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### Ocean Studies - American Meteorological Society

Enhance public understanding of the ocean in the Earth system Check out the public, real-time data portal for DataStreme Ocean . Created and sustained with major support from NOAA, the DataStreme Ocean course has a strong leadership component where participants become a local ocean science leader and a part of a national community facilitated by the American Meteorological Society.

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### DataStreme Ocean - American Meteorological Society

in Bulletin of the American Meteorological Society 3 November 2020 Radiative Relaxation Timescales Quantified from Sudden Stratospheric Warmings in Journal of the Atmospheric Sciences Email Alerts. Stay up to date with the latest content from the American Meteorological Society. ...

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### American Meteorological Society

The sea ice in the Arctic Ocean is projected to become seasonal or disappear entirely from some places, making the continental margins of the Arctic more prone to damaging storms and ocean waves. Warming in Alaska, which is faster than in other parts of the United States, will continue, with likely further thawing of permafrost.

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### Climate Change - American Meteorological Society

Experience exciting, interactive learning through exclusive hands-on activities designed by the American Meteorological Society. From analyzing high and low pressure systems to visualizing the effects of El Niño and La Niña, these inquiry-based investigations allow students to observe properties of the ocean and atmosphere first hand and are reusable to reinforce concepts until subjects are ...

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### K-12 Teachers - American Meteorological Society

Over the decades, AMS has championed the publication of unique textbooks and literature for the weather, water, and climate community, including enthusiasts.

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The Journal of Physical Oceanography (JPO) publishes research related to the physics of the ocean and to processes operating at its boundaries. Observational, theoretical, and modeling studies are all welcome, especially those that focus on elucidating specific physical processes.

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Journal of Physical Oceanography | American Meteorological ...

The tropics is dominated by redistribution (65%) and the midlatitude Southern Ocean has significant passive and redistributed contributions, the latter being stronger in the Atlantic and the Indian Ocean (Figs. 1b and 3b,d). The subpolar North Atlantic exhibits a large decrease in surface heat loss (Fig. 3b).

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Ocean Heat Storage in Response to Changing Ocean ...

Changes in atmospheric forcing can affect the subsurface water column of the ocean by three different mechanisms. First, warmed mixed-layer water that is subducted into the ocean interior will cause subsurface warming; second, the subducted surface water can be freshened through changes in evaporation and precipitation; and third, the properties at a given depth may be changed by the vertical ...

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Diagnosing Climate Change and Ocean Ventilation Using ...

Heat associated with oceanic currents originating from lower latitudes provides an important, and year-round, source of heat to the Arctic Ocean (e.g., Carmack et al. 2015). The dominant external source of oceanic heat is the warm (temperature  $> 0^{\circ}\text{C}$ ) and salty water of Atlantic origin [Atlantic Water (AW)], which is distributed throughout the deep basins at intermediate depths ( $\sim 150\text{--}900\text{ m}$  ...

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Weakening of Cold Halocline Layer Exposes Sea Ice to ...

Ocean salinity records the hydrological cycle and its changes, but data scarcity and the large changes in sampling make the reconstructions of long-term salinity changes challenging. Here, we present a new observational estimate of changes in ocean salinity since 1960 from the surface to 2000 m.

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Improved estimates of changes in upper ocean salinity and ...

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## File Type PDF By American Meteorological Society Ocean Studies Investigations Manual 9th Edition 9th Paperback

A good understanding of the general circulation features of the oceans, particularly of the coastal waters, and ability to predict the key oceanographic parameters with good accuracy and sufficient lead time are necessary for the safe conduct of maritime activities such as fishing, shipping, and offshore industries.

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High-Resolution Operational Ocean Forecast and Reanalysis ...

32 1. Introduction 33 Changes over the past two decades in upper-ocean temperatures in the Indian Ocean 34 have recently received increasing attention (e.g., Vialard 2015). The Indian Ocean 100{35 300m depth layer has warmed significantly since 2003 (Nieves et al. 2015). Rapid increases 36 are also seen in the top 700m Indian Ocean heat content since the early 2000s (Lee et al.

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AMERICAN METEOROLOGICAL SOCIETY. 1 Secondary ice formation during freezing of levitated droplets ... §Current address: Geomar, Helmholtz Center for Ocean Research, Düsternbrooker Weg 20, 24105 Kiel, Germany †Corresponding author. E-Mail thomas.leisner@kit.edu

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We relate about the custom-made modification of a Benthos deep-ocean acoustic release into a “deep caller,” an acoustic transducer for calling and releasing ocean acoustic transponding releases that cannot be reached from a standard deck unit. ... American Meteorological Society. For information regarding reuse of this content and general ...

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Deep Caller for Ocean Acoustic Releases | Journal of ...

The Southern Ocean State Estimate (SOSE; Mazloff et al. 2010) is a state-of-the-art data-assimilation product that incorporates millions of ocean and sea ice observations while maintaining dynamically consistent ocean state variables. Given the sparsity of observations in many regions around Antarctica, SOSE offers a comprehensive, physically based estimate of ocean properties that would ...

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Impacts of Ice-Shelf Melting on Water-Mass Transformation ...

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The National Ocean Service plays an important role in helping coastal communities prepare for, respond to, recover from, and be more resilient to extreme weather. This week, I'm participating at the American Meteorological Society's (AMS) annual meeting in Atlanta, Georgia.

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