Special Issue

The North Atlantic Ocean Dynamics and Climate Change

Message from the Guest Editor

The ocean dynamic measures: The dynamics of the North Atlantic Ocean are characterized with several time series, the North Atlantic oscillations, NAO, the Atlantic Multidecadal oscillation, AMO, and the Atlantic Meridional overturning circulation, i.e., the AMOC. Two of the series, the AMO and the AMOC, require several observation points to be constructed, whereas the NAO only measures the sea level pressure at two observation points. In addition to the three major measures, there are measures of ocean dynamics in ocean basins north and south of the North Atlantic that affect the dynamics of the North Atlantic. Although the three time series give information on the dynamics of the same ocean basin, it is not well known how the dynamics described by the series relates to each other. Do they show similar variability or oscillating behavior? Do they differ in some characteristics on the annual, decadal, multidecadal, and centennial, or millennial scale?

Guest Editor

Prof. Dr. Knut Lehre Seip
Department of Technology, Arts and Design, Oslo Metropolitan University, Oslo, Norway

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Climate
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
climate@mdpi.com

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Message from the Editor-in-Chief

Climate (ISSN 2225-1154) was established in 2013 to provide an open-access outlet for innovative research, review articles, new direction papers, and short communications relevant to all disciplines related to climate at all scales. The journal encourages papers ranging from climate change detection and attribution and Earth system modeling to ecosystem, hydrologic, and socioeconomic impacts and climate mitigation and adaptation measures. The influence of *Climate* is strong and growing (IF 3.2 in 2024, CiteScore 5.7 in 2024).

Editor-in-Chief

Dr. Timothy G. F. Kittel
Institute of Arctic and Alpine Research, University of Colorado Boulder, Boulder, CO 80309-0450, USA

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