

## Scientific scope of AMS Publications

It is important that potential authors understand the individual nature of each AMS journal, so that scientific papers may be submitted to the journal with the appropriate readership. In very broad terms, the scope of each existing AMS journal is as follows.

- *Journal of the Atmospheric Sciences (JAS)* publishes basic research related to the physics, dynamics, and chemistry of the atmosphere of Earth and other planets, with emphasis on the quantitative and deductive aspects of the subject.
- *Journal of Applied Meteorology and Climatology (JAMC)* publishes applied meteorological research related to physical meteorology, weather modification, satellite meteorology, radar meteorology, boundary layer processes, air pollution meteorology (including dispersion and chemical processes), agricultural and forest meteorology, and applied meteorological numerical models. The journal also publishes applied climatological research related to the use of climate information in decision making, impact assessments, seasonal climate forecast applications and verification, climate risk and vulnerability, development of climate monitoring tools, urban and local climates, and climate as it relates to the environment and society.
- *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. Papers that investigate interactions with other components of the earth system (e.g., ocean–atmosphere, physical–biological, and physical–chemical interactions) as well as studies of other fluid systems (e.g., lakes and laboratory tanks) are also invited, as long as their focus is on understanding the ocean or the ocean's role in the earth system.
- *Monthly Weather Review (MWR)* publishes research results relevant to the analysis and prediction of observed atmospheric circulations and physics, including technique development, data assimilation, model validation, and relevant case studies. This includes papers on numerical and data assimilation techniques that apply to the atmosphere and/or ocean environments as well as socioeconomic analyses of the impacts of weather and weather forecasts. *MWR* focuses on phenomena having seasonal and subseasonal time scales. Reviews of climatological aspects of high-impact events such as hurricanes, *as well as review articles*, are occasionally published.
- *Journal of Atmospheric and Oceanic Technology (JTECH)* publishes research describing instrumentation and methodologies used in atmospheric and oceanic research, including remote sensing instruments, measurements, validation, and data analysis techniques from satellites, aircraft, balloons, and surface-based platforms; in situ instruments, measurements, and methods for data acquisition, analysis, and interpretation; and information systems and algorithms.
- *Journal of Climate (JCLI)* publishes climate research and, therefore, welcomes manuscripts concerned with large-scale variability of the atmosphere, oceans, and

land surface, including the cryosphere; past, present, and projected future changes in the climate system (including those caused by human activities); and climate simulation and prediction. Occasionally *JCLI* will publish review articles on particularly topical areas. Such reviews must be approved by the chief editor prior to submission.

- *Weather and Forecasting (WAF)* publishes research that can lead without appreciable delay to improvements in operational forecasting, through implementation of new forecasting techniques relevant to case studies of significant weather events, modeling approaches, and dissemination of important information to operational forecasters. The journal covers research on deterministic and ensemble forecasting and analysis techniques applied to all time scales, forecast verification and new verification approaches, and methods to better forecast major weather events. This includes submissions that report on the capabilities of the latest physics, numerics, and data assimilation approaches within numerical models, ensembles and statistical postprocessing techniques, demonstrate the transfer of research results to the forecasting community, and illustrate the societal use and values of forecasts.
- *Journal of Hydrometeorology (JHM)* publishes research related to the modeling, observing, and forecasting of processes related to water and energy fluxes and storage terms, including interactions with the boundary layer and lower atmosphere, and including processes related to precipitation, radiation, and other meteorological inputs.
- *Earth Interactions (EI)* publishes in the electronic medium original research in the earth system sciences with emphasis on interdisciplinary studies. Within this framework, the journal particularly encourages submissions that address interactions among lithosphere, hydrosphere, atmosphere, and biosphere in the context of global issues or global change.
- *Weather, Climate, and Society (WCAS)* publishes scientific research and analysis on the interactions of weather and climate with society. The journal encompasses economic, policy, institutional, social, behavioral, and international research, including mitigation and adaptation to weather and climate change. Articles may focus on a broad range of topics at the interface of weather and/or climate and society, including the socioeconomic, policy, or technological influences on weather and climate, the socioeconomic or cultural impacts of weather and climate, ethics and equity issues associated with weather, climate, and society, and the historical and cultural contexts of weather, climate, and society. Because of the interdisciplinary subject matter, articles that involve both natural/physical scientists and social scientists are particularly encouraged.
- *Bulletin of the American Meteorological Society (BAMS)* publishes papers on historical and scientific topics that are of general interest to the AMS membership. It also publishes papers in areas of current scientific controversy and debate, as well as review articles.
- *Meteorological Monographs (MM)* are occasional publications on single meteorological, climatological, oceanographic, or hydrologic themes and may be extended single papers or a series of related shorter papers.

- *Historical Monographs (HM)* are occasional publications on the history or historical aspects of meteorology, climatology, oceanography, or hydrology.

These brief descriptions of scope may leave uncertainties as to the appropriate journal for certain manuscripts. In the final analysis, the Chief Editor's judgment will be the criterion for deciding whether the subject matter of a manuscript is suitable for the journal to which it has been submitted. Authors may find it helpful to review several recent issues of AMS journals to get a feel for the typical subject areas and scope of each journal.