

Journal of Climate

Contents

Vol. 24, No. 15, 1 August 2011

ARTICLES

•	Evaluation of MERRA Land Surface Estimates in Preparation for the Soil Moisture Active Passive Mission	3797–3816
	Seasonal Variation of Surface Temperature Change during the Last Several Decades	3817-3821
	A Proposed Mechanism for the Asymmetric Duration of El Niño and La Niña	3822-3829
	Subduction over the Southern Indian Ocean in a High-Resolution Atmosphere-Ocean Coupled Model	
	Tropical Oceanic Response to Extratropical Thermal Forcing in a Coupled Climate Model: A Comparison between the Atlantic and Pacific Oceans	3830-3849 3850-3866
	Regime Change of the Boreal Summer Hadley Circulation and Its Connection with the Tropical SST	3867-3877
	Impacts of the Tropical Pacific/Indian Oceans on the Seasonal Cycle of the West African Monsoon E. Mohino, B. Rodriguez-Fonseca, C. R. Mechoso, S. Gervois,	
	The Probability Distribution of Land Surface Wind Speeds	3878-3891
	Teleconnection Pathways of ENSO and the IOD and the Mechanisms for Impacts on Australian Rainfall	3892-3909
	Do Climate Models Underestimate the Sensitivity of Northern Hemisphere Sea Ice Cover?	3910-3923
	Dominant Mode of Climate Variability, Intermodel Diversity, and Projected Future Changes over the	3924-3934
	Summertime Western North Pacific Simulated in the CMIP3 Models	3935-3955
	Characteristics of the Dominant Modes of Atmospheric Quasi-Biweekly Oscillation over Tropical-Subtropical Americas	3956-3970
	Simulated Response to Recent Freshwater Flux Change over the Gulf Stream and Its Extension: Coupled Ocean-Atmosphere Adjustment and Atlantic-Pacific Teleconnection	3330-3370
	New Gravity Wave Treatments for GISS Climate Models	3971–3988
	TIEHAN ZHOU, RETO RUEDY, IGOR ALEINOV, LARISSA NAZARENKO, NIKOLAI L. TAUSNEV, SHAN SUN, MAXWELL KELLEY, AND YE CHENG	3989-4002
	Northern Hemisphere Modes of Variability and the Timing of Spring in Western North America TOBY R. AULT, ALISON K. MACALADY, GREGORY T. PEDERSON,	3707-4002
	Evaluation of Model-Predicted Top-of-Atmosphere Radiation and Cloud Parameters over Africa	4003-4014
	with Observations from GERB and SEVIRI WOUTER GREUELL, ERIK VAN MEUGAARD,	4015-4036
	Evaluation of the HOMME Dynamical Core in the Aquaplanet Configuration of NCAR CAM4: Rainfall	4037-4055
	Rethinking the Ocean's Role in the Southern Oscillation	4056-4072
	Regionalization of Present-Day Precipitation in the Greater Monsoon Region of Asia	4073-4095

Influence of ENSO on Tropical Cyclone Intensity in the Fiji Region SAVIN S. CHAND	4096-4108
Evaluation of Biases in JRA-25/JCDAS Precipitation and Their Impact on the Global Terrestrial Carbon Balance	4109-4125
A Shift in Western Tropical Pacific Sea Level Trends during the 1990s MARK A. MERRIFIELD	4126-4138
Sea Surface Temperature Biases under the Stratus Cloud Deck in the Southeast Pacific Ocean in 19 IPCC AR4 Coupled General Circulation Models	4139-4164
Relative Controls of Asian-Pacific Summer Climate by Asian Land and Tropical-North Pacific Sea Surface Temperature	4165-4188

► Special Collection: The Modern Era Retrospective-Analysis for Research and Applications

PAPERS IN PRESS CAN BE VIEWED AS EARLY ONLINE RELEASES AT http://ams.allenpress.com/EOR

Publications of the American Meteorological Society

The JOURNAL OF THE ATMOSPHERIC SCIENCES 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.

The JOURNAL OF APPLIED METEOROLOGY AND CLIMATOLOGY 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 climatology research related to the use of climate information in decision making, impact assessments, seasonal climate forecast applications and verification, climate risk and velocrability, development of climate monitoring tools, urban and local climates, and climate as it relates to the environment and society.

MONTHLY WEATHER REVIEW 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. Monthly Weather Review 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.

The JOURNAL OF PHYSICAL OCEANOGRAPHY 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.

The JOURNAL OF ATMOSPHERIC AND OCEANIC TECHNOLOGY 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.

WEATHER AND FORECASTING 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.

The JOURNAL OF CLIMATE 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 the *Journal of Climate* will publish review articles on particularly topical areas. Such reviews must be approved by the Chief Editor prior to submission.

The JOURNAL OF HYDROMETEOROLOGY 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.

The BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY 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.

EARTH INTERACTIONS 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 deal with interactions among the lithosphere, hydrosphere, atmosphere, and biosphere in the context of global issues or global change.

WEATHER, CLIMATE, AND SOCIETY, a new quarterly journal, 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.

For information on becoming an AMS member and/or subscribing to the Society's journals, visit the AMS Web site: http://www.ametsoc.org.