

# Weather, Climate, and Society

WEATHER, CLIMATE, AND SOCIETY (WCAS) publishes research and reviews that address economics, policy analysis, political science, history, communication, and institutional, social, health, and behavioral scholarship and research relating to weather and climate, including both climate variability and longer-term climate change. Contributions must include evidence-based analysis and substantive discussion of the interactions of weather and climate with society, taking an integrated approach, drawing on both the social and physical sciences.

## Chief Editor

HENRY HUNTINGTON  
Huntington Consulting

## Editors

WALKER S. ASHLEY  
Northern Illinois University

RAJIV PANDEY  
Forest Research Institute, Dehradun

CARLA RONCOLI  
Emory University

MICHAEL A. GOLDSTEIN  
Babson College

TANYA SPERO  
U.S. Environmental  
Protection Agency

## Associate Editors

ANKIT AGARWAL  
Department of Hydrology, IIT Roorkee

SARIA HASSAN  
Emory University School of Medicine

THOMAS SCHMIDLIN  
Kent State University

BOGDAN ANTONESCU  
Remote Sensing Department,  
Romanian National Institute  
for Research and Development  
in Optoelectronics  
INOE 2000

JENNIFER HENDERSON  
Texas Tech University

KATHLEEN SHERMAN-MORRIS  
Mississippi State University

MUCAHID MUSTAFA BAYRAK  
National Taiwan Normal University

GRETE K. HOVELSRUD  
Nord University

ROOPAM SHUKLA  
Potsdam Institute for Climate  
Impact Research

RANDALL P. BENSON  
Avangrid Renewables

PETER HOWE  
Utah State University

DETLEF SPRINZ  
Potsdam Institute for Climate  
Impact Research and  
University of Postdam

HAROLD BROOKS  
National Oceanic and Atmospheric  
Administration

VLADIMIR JANKOVIC  
University of Manchester

ALAN STEWART  
University of Georgia

TODD A. CRANE  
Sustainable Livestock Systems,  
International Livestock Research Institute

JONGHUN KAM  
Pohang University of Science  
and Technology

STEPHEN M. STRADER  
Villanova University

KELSEY ELLIS  
University of Tennessee

KIMBERLY KLOCKOW  
CIMMS, University of  
Oklahoma and NOAA/  
National Severe Storms  
Laboratory

BENJAMIN SULTAN  
IRD, French National Research  
Institute of Sustainable  
Development and ESPACE-DEV

JOÃO P. A. GOBO  
Department of Geography,  
Federal University of Rondônia, Brazil

SHALINI LATA  
The University of Notre  
Dame Australia

CASTLE WILLIAMSBERG  
Cherokee Nation Strategic Programs, Supporting  
NOAA's Weather Program Office

KRISTINE HARPER  
University of Copenhagen

SULEMAN SARWAR  
University of Jeddah

MASOUD YAZDANPANAH  
Department of Agriculture Extension,  
Agriculture Science and Natural Resource  
University, Iran, and University of Florida

## Editorial Staff

### AMS Lead Technical Editor for WCAS

MARK E. FERNAU

### AMS Lead Copy Editor for WCAS

JESSICA A. LAPOINTE

### Peer Review Staff

ERIN GUMBEL (Assistant to Dr. Huntington)

DJ ARRUDA

CRISTINA BARLETTA

HALEY CHARNEY

ROBBIE MATLOCK

### AMS Scientific and Technical Journals Staff

#### Director of Publications

GWENDOLYN WHITTAKER

#### Production Manager

SHEILA F. GAFVERT

#### Managing Technical Editor

MARK E. FERNAU

#### Associate Director—Publishing Technology

MICHAEL A. FRIEDMAN

#### Production Team Coordinator

LIZ WRIGHT

#### Senior Technical Editors

HOLLIS E. BAGUSKAS

RICHARD R. BRANDT

#### Managing Copy Editor

JESSICA A. LAPOINTE

#### Peer Review Support Manager

ANDREA HERBST

#### Senior Production Assistant

DANIELLE M. JOYCE

#### Senior Copy Editors

KRISTIN GILBERT

#### Publications Billing and AMS Office Manager

CAITLIN GARRISON

#### Production Assistants

KATIE QUIRK

ABBY WOODWARD

RAMESH PILLAY

NICOLE E. RIETMANN

ANDREA L. SCHEIN

© Copyright 2023 American Meteorological Society (AMS). For permission to reuse any portion of this work, please contact [permissions@ametsoc.org](mailto:permissions@ametsoc.org). Any use of material in this work that is determined to be "fair use" under Section 107 of the U.S. Copyright Act (17 U.S. Code § 107) or that satisfies the conditions specified in Section 108 of the U.S. Copyright Act (17 USC § 108) does not require AMS's permission. Reproduction, systematic reproduction, posting in electronic form, such as on a website or in a searchable database, or other uses of this material, except as exempted by the above statement, require written permission or a license from AMS. All AMS journals and monograph publications are registered with the Copyright Clearance Center (<https://www.copyright.com>). Additional details are provided in the AMS Copyright Policy statement, available on the AMS website (<https://www.ametsoc.org/PUBSCopyrightPolicy>).

WEATHER, CLIMATE, AND SOCIETY (ISSN 1948-8327) is published quarterly by the American Meteorological Society at 45 Beacon Street, Boston, MA 02108-3693. Periodicals postage paid at Boston, MA, and additional mailing offices. Subscription rates for this and other AMS titles are available online at <https://www.ametsoc.org/index.cfm/ams/publications/subscription-information>. For information on becoming an AMS member and/or subscribing to the Society's journals, visit the AMS website: <https://www.ametsoc.org>. Subscription orders, claims for missing numbers, changes of address, and other business correspondence should be sent to [amsinfo@ametsoc.org](mailto:amsinfo@ametsoc.org) (or to the American Meteorological Society, 45 Beacon Street, Boston, MA 02108-3693). Periodical postage paid at Boston, MA, and additional mailing offices. POSTMASTER: Send address changes to the *Weather, Climate, and Society*, American Meteorological Society, 45 Beacon Street, Boston, MA 02108-3693.