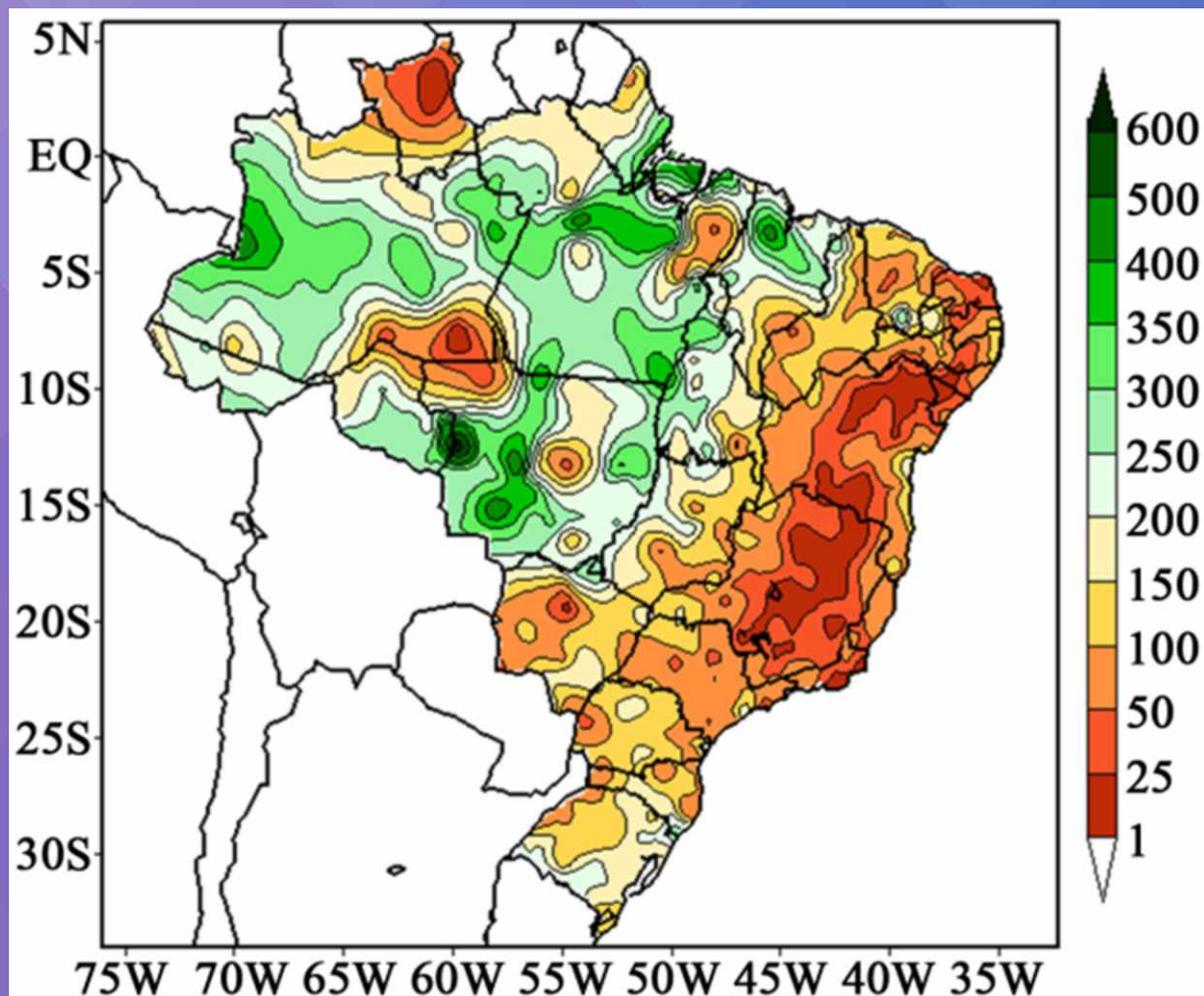


Atmospheric and Climate Sciences



ISSN: 2160-0414



Journal Editorial Board

ISSN 2160-0414 (Print) ISSN 2160-0422 (Online)

<http://www.scirp.org/journal/acs>

Editor-in-Chief

Prof. Shaocai Yu North Carolina State University, USA

Editorial Board

Dr. Jørgen Brandt Aarhus University, Denmark
Prof. Chak K. Chan Hong Kong University of Science and Technology, China
Prof. Yoon-Seok Chang Pohang University of Science and Technology, South Korea
Dr. Ke Du University of Calgary, Canada
Dr. Jiwen Fan Pacific Northwest National Laboratory, USA
Dr. Guobin Fu CSIRO Land and Water, Australia
Dr. Paolo Di Girolamo Università degli Studi della Basilicata, Italy
Dr. Andreas Hofzumahaus Institute of Energy and Climate Research, Germany
Dr. Yanqing Lian University of Illinois at Urbana-Champaign, USA
Prof. Ioannis Liritzis University of the Aegean, Greece
Prof. Junboun Park Seoul National University, South Korea
Dr. Alessandro Pezzoli Turin Polytechnic, Italy
Prof. Rajib Shaw Kyoto University, Japan
Prof. Daniel Tong US NOAA Air Resources Laboratory, USA
Dr. Krishna Prasad Vadrevu University of Maryland, USA
Prof. Julian X. L. Wang US NOAA Air Resources Laboratory, USA
Prof. Tijian Wang Nanjing University, China
Dr. Jianjun Xu George Mason University, USA
Prof. Fangqun Yu State University of New York at Albany, USA
Prof. Qiang Zhang Sun Yat-sen University, China

Table of Contents

Volume 5 Number 4

October 2015

Changes in Vegetation and Rainfall over West Africa during the Last Three Decades (1981-2010)	
A. Bamba, B. Dieppois, A. Konaré, T. Pellarin, A. Balogun, N. Dessay, B. Kamagaté, I. Savané, A. Diédhiou.....	367
Relationship between Disruptions of Carbon's Cyclic Set Natural Transfers and the Upsurge of Weather Conditions with Strong Winds and Heavy Rains	
C. Mbane Biouele.....	380
Atmospheric Blocking in the South Atlantic during the Summer 2014: A Synoptic Analysis of the Phenomenon	
W. Luiz Silva, M. X. Nascimento, W. F. Menezes.....	386
Kinetic Energy Budget of a Tropical Cyclone	
H. Abdel-Basset, M. A. A. Husin, H. Hasanen.....	394
MJO Modulation of Station Rainfall in the Semiarid Seridó, Northeast Brazil	
C. E. A. Valadão, P. S. Lucio, R. R. Chaves, L. M. V. Carvalho.....	408
No Solar Signal in Temperature Proxies from Antarctica	
M. Ogurtsov, M. Lindholm, R. Jalkanen, S. Veretenenko.....	418
Relationship between the Concentration of Impurity and Albedo in Snow Surface	
Y. Komuro, T. Suzuki.....	426
Local Altruism as an Environmental Ethic in CO₂ Emissions Control	
M. Otaki.....	433
Characterization of the Atmospheric Dynamics in Riobamba City Using the Chaos Theory	
A. Haro, C. Limaico, Y. Llosas.....	441

Atmospheric and Climate Sciences (ACS)

Journal Information

SUBSCRIPTIONS

The *Atmospheric and Climate Sciences* (Online at Scientific Research Publishing, www.SciRP.org) is published quarterly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$79 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: sub@scirp.org

COPYRIGHT

COPYRIGHT AND REUSE RIGHTS FOR THE FRONT MATTER OF THE JOURNAL:

Copyright © 2015 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY).

<http://creativecommons.org/licenses/by/4.0/>

COPYRIGHT FOR INDIVIDUAL PAPERS OF THE JOURNAL:

Copyright © 2015 by author(s) and Scientific Research Publishing Inc.

REUSE RIGHTS FOR INDIVIDUAL PAPERS:

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

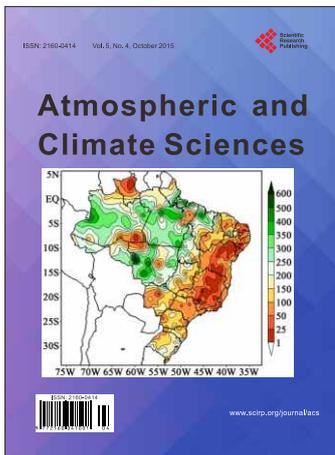
DISCLAIMER OF LIABILITY

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: acs@scirp.org



Atmospheric and Climate Sciences (ACS)

ISSN 2160-0414 (Print) ISSN 2160-0422 (Online)

<http://www.scirp.org/journal/acs>

Editor-in-Chief

Prof. Shaocai Yu

North Carolina State University, USA

Subject Coverage

This journal invites original research and review papers that address the following issues. Topics of interest include, but are not limited to:

ACS aims to rapidly publish original scientific papers in all the fields of applied and/or climate atmospheric science. It covers the latest achievements and developments in the applied climate and atmospheric sciences, including but not limited to the following scopes as well as the theoretical and practical aspects of these disciplines:

- Agricultural climatology
- Air chemistry and the boundary layer, clouds and weather modification
- Air quality, atmosphere & health
- Applied meteorology
- Atmospheric acoustics, electricity, optics, physics, radiation and sounding
- Atmospheric and oceanic physics
- Atmospheric and solar-terrestrial physics
- Atmospheric chemistry
- Atmospheric environment
- Aviation climatology
- Biometeorology
- Building climatology and forestry climatology
- Climate change and broadcast meteorology
- Climate dynamics and variability
- Climate policy
- Clouds and precipitation physics
- Cosmical meteorology
- Dendroclimatology
- Dynamics of atmospheres and ocean
- Hydrology, oceans and atmosphere
- Hydrometeorology
- Marine meteorology and meteorology-associated geophysics
- Medical meteorology and medical climatology
- Meteorological, climatological and atmospheric environmental issues
- Navigation climatology
- Phenology and paleoclimatology
- Polar meteorology
- Radar meteorology and radio meteorology
- Remote sensing
- Satellite meteorology and synoptic meteorology
- Theoretical and applied climatology
- Tropical meteorology
- Weather systems, numerical weather prediction

We are also interested in short papers (letters) that clearly address a specific problem, and short survey or position papers that sketch the results or problems on a specific topic. Authors of selected short papers would be invited to write a regular paper on the same topic for future issues of the **ACS**.

Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

Website and E-Mail

<http://www.scirp.org/journal/acs>

E-mail: acs@scirp.org

