Journal Editorial Board

ISSN 2160-0414 (Print)  ISSN 2160-0422 (Online)
http://www.scirp.org/journal/ac

Editor in Chief

Dr. Shaocai Yu  U.S. Environmental Protection Agency, USA

Editorial Board (According to Alphabet)

Prof. Viney P. Aneja  North Carolina State University, USA
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. Paolo Di Girolamo  Università degli Studi della Basilicata, Italy
Dr. Ke Du  Chinese Academy of Sciences, China
Dr. Jiwen Fan  Pacific Northwest National Laboratory, USA
Dr. Guobin Fu  CSIRO Land and Water, Australia
Dr. Andreas Hofzumahaus  Institute of Energy and Climate Research, Germany
Dr. Daniel A. Knopf  Stony Brook University, USA
Dr. Yanqing Lian  University of Illinois, USA
Prof. Athanasios Nenes  Georgia Institute of Technology, USA
Prof. Junboum Park  Seoul National University, South Korea
Dr. Alessandro Pezzoli  Turin Polytechnic, Italy
Prof. Nicole Riemer  University of Illinois at Urbana-Champaign, USA
Dr. 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  University of Arizona, USA
Prof. Fangqun Yu  State University of New York at Albany, USA
Prof. Qiang Zhang  Sun Yat-sen University, China

Guest Reviewer

Dujuan Kang
# TABLE OF CONTENTS

**Volume 3  Number 2  April 2013**

**Observed Changes in Long-Term Climatic Conditions and Inner-Regional Differences in Urban Regions of the Baltic Sea Coast**  
M. Richter, S. Deppisch, H. V. Storch ................................................................. 165

**GOSAT CH₄ and CO₂, MODIS Evapotranspiration on the Northern Hemisphere June and July 2009, 2010 and 2011**  
R. R. Muskett ................................................................. 177

**Mineral and Sea-Salt Aerosol Fluxes over the Last 340 kyr Reconstructed from the Total Concentration of Al and Na in the Dome Fuji Ice Core**  

**Evaluation of Spatial-Temporal Variability of Drought Events in Iran Using Palmer Drought Severity Index and Its Principal Factors (through 1951-2005)**  
M. Zoljoodi, A. Didevarasl ................................................................. 193

**Spatial Interpolation of Climatological Information: Comparison of Methods for the Development of Precipitation Distribution in Distrito Federal, Brazil**  
P. Borges, J. Franke, M. Tanaka, H. Weiss, C. Bernhofer ................................................................. 208

**The Formation of Lee Reversal Flow and Moisture Distribution Effect on the Characteristics of Precipitation**  
J. Q. Liu, Z. L. Li ................................................................. 218

**Influence of Land Use Activities on Spatial and Temporal Variation of Nutrient Deposition in Mwanza Region: Implication to the Atmospheric Loading to the Lake Victoria**  
S. A. H. Vuai, J. D. Ibbembe, N. W. Mungai ................................................................. 224

**Comparison of Gridded Precipitation Time Series Data in APHRODITE and Asfazari Databases within Iran’s Territory**  
E. Nasrabadi, S. A. Masoodian, H. Asakereh ................................................................. 235

**An Independent Assessment of the Monthly PRISM Gridded Precipitation Product in Central Oklahoma**  
J. M. Schneider, D. L. Ford ................................................................. 249

**Characteristics of Central Southwest Asian Water Budgets and Their Impacts on Regional Climate**  
K. M. Malik, P. A. Taylor, K. Szeto, A. H. Khan ................................................................. 259

---

The figure on the front cover is from the article published in *Atmospheric and Climate Sciences*, 2013, Vol. 3, No. 2, pp. 208-217 by Pablo Borges de Amorim, *et al.*

Copyright © 2013 SciRes.
Atmospheric and Climate Sciences (ACS)

Journal Information

SUBSCRIPTIONS


Subscription rates:
Print: $59 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)
E-mail: sub@scirp.org

COPYRIGHT

Copyright©2013 Scientific Research Publishing, Inc.
All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as described below, without the permission in writing of the Publisher.

Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

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 assumes 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
Call for Papers

Atmospheric and Climate Sciences (ACS)

ISSN 2160-0414 (Print)  ISSN 2160-0422 (Online)
http://www.scirp.org/journal/acs

Editor-in-Chief
Dr. Shaocai Yu  U.S. Environmental Protection Agency, 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 andvariability
- 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