



Atmospheric and Climate Sciences



ISSN: 2160-0414



9 772160 041001 02

JOURNAL EDITORIAL BOARD

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

Editorial Board (According to Alphabet)

Prof. Yoon-Seok Chang Pohang University of Science and Technology, Korea (South)
Prof. Viney P. Aneja North Carolina State University, USA
Dr. Guobin Fu CSIRO Land and Water (Surface Water Hydrology program), Australia
Prof. Yanqing Lian University of Illinois, USA
Prof. Junbom Park Seoul National University, Korea (South)
Dr. Alessandro Pezzoli Turin Polytechnic, Italy
Dr. Rajib Shaw Kyoto University, Japan
Prof. Daniel Tong US NOAA Air Resources Laboratory, 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 Atmospheric Sciences Research Center, State University of New York at Albany, USA
Prof. Qiang Zhang Sun Yat-sen University, China

Guest reviewers

Resmi CT

Editorial Assistant

Kany Deng Scientific Research Publishing, USA

TABLE OF CONTENTS

Volume 1 Number 2

April 2011

An Examination of the Effects of Aerosol Chemical Composition and Size on Radiative Properties of Multi-Component Aerosols

S. C. Yu, Z. Yang.....19

Abrupt Climate Regime Shifts, Their Potential Forcing and Fisheries Impacts

A. M. Jr. Powell, J. J. Xu.....33

Eyjafjallajökull Volcanic Eruption: Ice Nuclei and Particle Characterization

B. Franco, S. Gianni, P. Franco.....48

Correlative Study between UV Irradiance and TOC Using AURA OMI at Kannur (12.3N, 75.4E)

T. Nishanth, S. M. Joseph, K. M. Praseed, M. K. S. Kumar.....55

Applications of Satellite Data for Aerosol Optical Depth (AOD) Retrievals and Validation with AERONET Data

S. Bhaskaran, N. Phillip, A. Rahman, J. Mallick.....61

The figure on the front cover is from the article published in *Atmospheric and Climate Sciences*, 2011, Vol. 1, No. 2, pp. 61-67, by Sunil Bhaskaran, Neal Phillip, Atiqur Rahman and Javed Mallick.

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: \$39 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©2011 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.

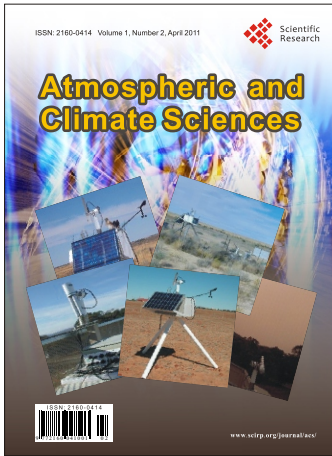
Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

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 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>

Atmospheric and Climate Sciences is an international journal dedicated to the latest advancement of wireless engineering and technology. The goal of this journal is to provide a platform for scientists, students, academics and engineers all over the world to promote, share, and discuss various new issues and developments in different areas of wireless engineering and technology.

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:

| | |
|---|---|
| Agricultural climatology | Hydrometeorology |
| Air chemistry and the boundary layer, clouds and weather modification | Marine meteorology and meteorology-associated geophysics |
| Applied meteorology | Medical meteorology and medical climatology |
| Atmospheric acoustics, electricity, optics, physics, radiation and sounding | Meteorological, climatological and atmospheric environmental issues |
| Atmospheric sciences | Navigation climatology |
| Aviation climatology | Phenology and paleoclimatology |
| Biometeorology | Polar meteorology |
| Building climatology and forestry climatology | Radar meteorology and radio meteorology |
| Climate dynamics and variability | Remote sensing |
| Clouds and precipitation physics | Satellite meteorology and synoptic meteorology |
| Cosmical meteorology | Tropical meteorology |
| Dendroclimatology | 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