



© ROMANIAN ASSOCIATION OF CLIMATOLOGY

ROMANIAN JOURNAL OF CLIMATOLOGY



Volume II



**Editura Universitară,
București, 2011**

Tehnoredactare computerizată: Prof. dr. Nicoleta Ionac
Coperta: Angelica Mălăescu

Copyright © 2011
Editura Universitară
Director: Drd. Vasile Muscalu
B-dul. N. Bălcescu nr. 27-33, Sector 1, București
Tel.: 021 - 315.32.47 / 319.67.27
www.editurauniversitara.ro
e-mail: redactia@editurauniversitara.ro

EDITURĂ RECUNOSCUTĂ DE CONSILIUL NAȚIONAL AL CERCETĂRII ȘTIINȚIFICE DIN ÎNVĂȚĂMÂNTUL SUPERIOR
(C.N.C.S.I.S.)

ISSN 1841-513X

© Toate drepturile asupra acestei lucrări sunt rezervate Asociației de Climatologie din România.

Distribuție: tel.: 021-315.32.47 /319.67.27,
comenzi@editurauniversitara.ro

DOI: 10.5682/1841513X

CONTENTS

Volume II, 2011

LETTERS

Global warming – certainties and doubts	1-10
.....STERIE CIULACHE	

ARTICLES

Solar Forcing of Changes in Atmospheric Circulation, Earth's Rotation and Climate	11-16
.....ADRIANO MAZZARELLA	

Caractéristiques climatiques comparatives entre le littoral roumain de la Mer Noire et le littoral français de la Mer Méditerranéenne.....	17-26
.....OCTAVIA BOGDAN, ANNICK DOUGUÉDROIT	

Bioclimatic Stress due to Overheating in Romania.....	27-36
.....NICOLETA IONAC	

Rime and Glazed Frost Trends in Romania.....	37-48
.....IOAN RALIȚĂ, ALEXANDRU DUMITRESCU	

The Meteorological Conditions Leading to the Extreme Floods in Moldavia, in July 2008.....	49-56
.....ELENA ERHAN, GHEORGHE CANACHE, CRISTIAN VALERIU PATRICHE	

Climatic Risk Phenomena in the Criș Plain, in the Warm Period of the Year.....	57-66
.....GHEORGHE MĂHĂRA, EUGENIA ȘERBAN	

Urbanization-Induced Variations in Air Temperature and Rainfall in Naples – Southern Italy.....	67-77
.....ADRIANO MAZZARELLA, ANDREA GIULIACCI	

Classical and Automatic Measurements of Solar Radiation: Preliminary Results.....	78-83
.....ANCUȚA MANEA, CRISTIAN OPREA	

NOTES

The Angot Monthly Pluviometric Coefficient in the Republic of Moldova.....	84-86
.....ANATOLIE PUȚUNTICĂ, MIHAELA IACOB	

REVIEWS

Atlasul Bioclimatic al României (Romania's Bioclimatic Atlas).....	87-88
.....ELENA ERHAN	

Chief Editor

Prof. Dr. STERIE CIULACHE
University of Bucharest
Romanian Association of Climatology

Editorial Committee

Prof. Dr. NICOLETA IONAC
University of Bucharest

Prof. Dr. ELENA ERHAN
„Al. I. Cuza” University of Iassy

Prof. Dr. GÉRARD BELTRANDO
University Paris 7 “Denis Diderot”–
France

Prof. Dr. OCTAVIA BOGDAN
„Dimitrie Cantemir”
Christian University of Sibiu
Geographical Institute
of the Romanian Academy

Prof. Dr. LIVIU APOSTOL
„Al. I. Cuza” University of Iassy

Prof. Dr. ADRIANO MAZZARELLA
„Federico II” University of Naples -
Italy

Prof. Dr. GHEORGHE MĂHĂRA
University of Oradea

*Referents**Editorial Staff*

Prof. Dr. STERIE CIULACHE
Romanian Association of
Climatology
University of Bucharest

Dr. CARMEN DRAGOTĂ
Geographical Institute of the
Romanian Academy

Volume editor
NICOLETA IONAC (ACR)

Prof. Dr. NICOLETA IONAC
University of Bucharest

Prof. Dr. ELENA ERHAN
„Al. I. Cuza” University of Iassy

Technical Editor
NICOLETA IONAC (ACR)

Prof. Dr. OCTAVIA BOGDAN
„Dimitrie Cantemir”
Christian University of Sibiu
Geographical Institute
of the Romanian Academy

Prof. Dr. LIVIU APOSTOL
„Al. I. Cuza” University of Iassy

Editorial Secretary
NICOLETA IONAC (ACR)

Prof. Dr. GHEORGHE MĂHĂRA
University of Oradea

English edition revised
NICOLETA IONAC (ACR)

Conf. dr. OVIDIU GACEU
University of Oradea

Editorial Assistant / Cover Design
ELENA GRIGORE

The ROMANIAN JOURNAL OF CLIMATOLOGY publishes articles on climate research, mainly concerned with climate variability, changes in the climate system (including those caused by human activities), climate observing, modeling and forecasting, air-pollution meteorology, urban climatology, agricultural and forest meteorology, topo- and micro-climatology, methods for data acquisition, processing and interpretation, current scientific controversy and debate, as well as review articles.

INFORMATION FOR CONTRIBUTORS

Articles dealing with climate and its impacts should be sent to the Chief Editor, Romanian Journal of Climatology. When an article is submitted, the author must inform the Chief Editor if it has been previously published in any language or if it is under consideration for publication by another journal. The author must also promptly inform the Chief Editor if it is submitted for publication elsewhere before its disposition by the ROMANIAN JOURNAL OF CLIMATOLOGY. Four sections are maintained in the journal: *Letters, Articles, Notes and Reviews*.

Letters provide rapid publication of timely contributions relating to the climatological community or of scientific topics that are of general interest to the ACR membership. *Articles* present significant scientific research results. *Notes* may be brief papers describing short development projects or comments on the application of theory. *Reviews* represent short accounts of most important paperworks that have lately been published in the field of climatology.