

Pre-order Form only valid if received by 28 February 2003

Pavel Kabat, Martin Claussen, Paul A. Dirmeyer, John H.C. Gash, Lelys Bravo de Guenni, Michel Meybeck, Roger A. Pielke, Sr., Charles J. Vörösmarty, Ronald W.A. Hutjes, Sabine Lütkeimer (Eds.)

Vegetation, Water, Humans and the Climate

A New Perspective on an Interactive System

Date of publication: April 2003

Approx. 650 pp. 246 figs., 126 in color, 58 tabs., Book.

(Global Change - The IGBP Series)

Hard cover. EUR 91,- (please note: this price is only valid till 28 February 2003.

Afterwards it will be approx. EUR 143,-)

ISBN 3-540-42400-8



Springer

This book presents a state-of-the-art science overview of the influence of the terrestrial vegetation and soils within the Earth system, especially the interactions between the terrestrial biosphere and atmosphere via the hydrological cycle, and their interactions with anthropogenic activities. Measurements in integrated field experiments in the Sahel, Amazon, Northern America and South-East Asia, confirm the importance of these interactions, but a substantial data consolidation effort needs still to be undertaken. Observations are complemented by modelling studies, including regional models that simulate flows and transport in river catchments, coupled land-cover and climate regional systems, and global Earth system and circulation models. Water and nutrient and sediment fluxes in river basins are also discussed and shown to be highly impacted and regulated by humans through land use, pollution, and river engineering. Finally, the book discusses environmental vulnerability and methodologies of assessing the risks associated with regional and global climate and environmental changes. The authors wish to emphasise that the results reported in this book are based on research work of many individual scientists and teams around the world, associated with the objectives of the IGBP-BAHC and WCRP-GEWEX international research programmes.

From the contents:

Does land surface matter in climate and weather?- How measurable is the Earth system?- The value of land surface data consolidation.- The integrity of river and drainage basin systems: challenges from environmental change.- How to evaluate vulnerability in changing environmental conditions?

Keywords:

Biospheric feedbacks, climate change, water resources, biogeochemical cycling, river catchment, field experiments, data consolidation, vulnerability, Earth system science

Global Change - The IGBP Series:

The aim of the IGBP International Geosphere-Biosphere Programme book series is to present major results of IGBP research – at both the core-project and the programme-wide level – in a single series. The volumes emphasise the key findings of the programme and each is based on an integration of a large body of work carried out around the world under the auspices of the programme. The IGBP synthesis project, involving most core projects, will produce at regular intervals a set of state-of-the-science volumes on the nature of the changing environment of the Earth and prospects for the future.

Pre-order Form valid till 28 February 2003

- I will transfer 91,- Euro to:
Rabobank
BIC-code: RABO2UNL
Plantsoen 55, Wageningen
Accountnumber: 3670.54612

- Please see my cheque enclosed

publication: 05.2003 Yes, please send me

---- copies

ISBN 3-540-42400-8

EUR 91,00

Price only valid till 28 February 2003

Ms Cora Boesenach
CCB-Wageningen UR
c/o Alterra
Lawickse Allee 11
6701 AN WAGENINGEN
The Netherlands

Tel.: +31 (0)317 47 47 13

Fax: +31 (0)317 49 55 90

E-mail: c.d.a.boesenach@alterra.wag-ur.nl

Name: _____

Institution: _____

Street: _____

City/Zip Code: _____

Country: _____

E-mail: _____

Date/Signature: _____