

UNESCO
Catalogue of Publications
Natural Sciences
2010-2011



UNESCO
Catalogue of Publications in the Natural Sciences
2010-2011

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Natural Sciences

UNESCO Science Report



UNESCO Science Report, 2010: the current status of science around the world

ISBN: 978-92-3-104132-7

Published in 2010 by UNESCO

Editor: Susan Schneegans

CD available

520 p. illus. (ENG)

Incl. bibl. (Foreword by Irina Bokova, Director General of UNESCO)

The UNESCO Science Report 2010 analyses the trends and developments that have shaped scientific research, innovation and higher education over the past five years. The report depicts an increasingly competitive environment, one in which the flow of information, knowledge, personnel and investment has become to a two-way traffic. Taking up from where its predecessors left off in 2005, the UNESCO Science Report 2010 proposes a world tour of the status of science today that should enable 'science watchers' everywhere to decipher the trends that are shaping our rapidly changing world.

<http://unesdoc.unesco.org/images/0018/001899/189958e.pdf> (.pdf)



Executive Summary - UNESCO Science Report 2010

ISBN: 978-92-104132-7

Published in 2010 by UNESCO

Editor: Susan Schneegans

32p. illus. (ENG, FRE, SPA, RUS, GER, ARA, POR, CHI)

This Executive Summary is drawn from the first chapter of the UNESCO Science Report 2010. It has been printed as a supplement in Arabic, Chinese, English, French, Russian, Spanish, Portuguese and German.

<http://unesdoc.unesco.org/images/0018/001898/189883E.pdf>

<http://unesdoc.unesco.org/images/0018/001898/189883F.pdf>

Newsletter



A World of Science

Published by UNESCO

Editor: Susan Schneegans

A World of Science is published quarterly and covers a wide variety of scientific areas of topical interest and of relevance to UNESCO's programmes in science.

Vol.9 No.4

Published in 2011

24p., illus. (ENG, FRE)

Incl.bibl.

Topics covered: 40th anniversary of MAB Programme, space technologies for cultural and natural heritage, tsunami warning system, chemical contaminants

<http://unesdoc.unesco.org/images/0021/002122/212222e.pdf>

Vol.9 No.3

Published in 2011

24p., illus. (ENG, FRE)

Incl.bibl.

Topics covered: green societies, tectonic map of Africa, nuclear power

<http://unesdoc.unesco.org/images/0019/001938/193840E.pdf>

Vol.9 No.2

Published in 2011

24p., illus. (ENG, FRE)

Incl.bibl.

Topics covered: biotechnology, precipitation, floods, flood control, science policy

<http://unesdoc.unesco.org/images/0019/001920/192090E.pdf>

Vol.9 No.1

Published in 2011

28p., illus. (ENG, FRE, SPA)

Topics covered: International Year of Chemistry 2011, environmental forensics

<http://unesdoc.unesco.org/images/0019/001905/190542E.pdf>

Vol.8 No.4

Published in 2010

24p., illus. (ENG, FRE, SPA, RUS)

Incl. bibl.

Topics covered: science, scientific development, research trends, scientific innovations, biological diversity, nature conservation, natural heritage

<http://unesdoc.unesco.org/images/0018/001896/189685e.pdf>

Vol.8 No.3

Published in 2010

24p., illus. (ENG, FRE, SPA, RUS)

Topics covered: biological diversity, cultural diversity, medicinal plants, endangered species, marine ecosystems, nature conservation

<http://unesdoc.unesco.org/images/0018/001884/188440e.pdf>

Vol.8 No.2

Published in 2010

24p., illus. (ENG, FRE, SPA, RUS)

Incl. bibl.

Topics covered: nature conservation, women scientists, aircraft, biological diversity, fisheries, fishery resources, climate change

<http://unesdoc.unesco.org/images/0018/001875/187515e.pdf>

Vol.8 No.1

Published in 2010

24p., illus. (ENG, FRE, SPA, RUS)

Incl. bibl.

Topics covered: biological diversity, global warming, biogeography, space exploration, moon, biosphere reserves, technology of dyes

<http://unesdoc.unesco.org/images/0018/001865/186519e.pdf>

Science Policy for Sustainable Development

Science policy publications



Science and Education Policies in Central and Eastern Europe, Balkans, Caucasus and Baltic Countries

Document code: IT/2010/SC/PI/2

Published in 2010 by UNESCO Office in Venice

Edited by Iulia Nechifor and Elena Severin

161p., illus. (ENG)

Incl. bibl.

The publication provides insights on subjects related to the linkages between higher education and research and their importance for the development of a knowledge-based society in countries of Central and Eastern Europe, Balkans, Caucasus and Baltic Countries. Experiences from other regions are also included. The following topics are addressed throughout the volume: Strengthening the International Impact of National Research and Education Programmes, Enhancing Research in Higher Education, Developing a Knowledge-Based Economy, Best Practices on Stemming and Reversing 'Brain Drain'.

<http://unesdoc.unesco.org/images/0018/001878/187823e.pdf> (.pdf)



Use of Renewable Energy Sources in Central Asia. Perspectives and Capacity Building Needs.

Document code: SC/2010/PI/H/1

Published in 2010 by UNESCO

140p. (RUS)

Incl. bibl.

The purpose of this review is to give a general description of the current status of usage of renewable energy sources in Central Asian countries, paying special attention to the demand of each country for capacity building. In the framework of this research, experts describe the existing potential, especially human resources in the field of renewable energy sources in Central Asia (CA). The publication clarifies the positions of most parties, interested in the development of this sector and describes measures for organizing and implementing teaching programs and training to promote capacity building in the

renewable energy technologies in CA. Experts devoted much attention to analysing the results of interviews with stakeholders (state bodies, universities, non-governmental organizations, business organizations already working with RES,) to get a real picture reflecting the usage of RES and human resources in the sector in Central Asia.

<http://unesdoc.unesco.org/images/0018/001882/188236R.pdf> (.pdf)



Ciencia para la paz y el desarrollo: El caso del Juramento Hipocrático para Científicos

ISBN: 978-92-9089-142-0

Published in 2010 by UNESCO's Regional Bureau for Science in Latin America and the Caribbean (Montevideo) in the series Documents and Studies on Science Policy in Latin America and the Caribbean

Edited by Guillermo A. Lemarchand

192 p., illus. (SPA)

A collection of essays from a workshop organized by UNESCO at the University of Buenos Aires in 2008 on World Science Day, which summarizes an ongoing debate as to whether or not a code of ethics should be drawn up for scientists along the lines of the Hippocratic Oath for medical doctors. The annex includes the Science Agenda – Framework for Action adopted by the World Conference on Science (1999), which stated that ‘governments and NGOs, in particular scientific and scholarly organizations, should organize debates, including public debates, on the ethical implications of scientific work’ and that ‘scientific associations should define a code of ethics for their members’. The article presents UNESCO’s efforts in the promotion of a socially responsible science, one that is committed to the improvement of human life by working towards the solution of the most pressing problems we currently face. It focuses on the annual UNESCO World Science Day for Peace and Development and on the debate about the need to implement a Code of Ethics for scientists.

<http://www.unesco.org.uy/institucional/fileadmin/ciencias%20naturales/Políticas%20Científicas/CienciaParaLaPaz-Web.pdf> (.pdf) (in Spanish)



National Science, Technology and Innovation Systems in Latin America and the Caribbean

ISBN: 978-92-9089-154-3

Published in 2010 by UNESCO

Edited by Guillermo A. Lemarchand, Regional Bureau for Science in Latin America and the Caribbean, Science Policy Studies and Documents in LAC, Vol.1.

308p., illus. (SPA, ENG)

Incl. bibl.

The present volume is the first of the new collection named “Latin American and Caribbean Science Policy Studies and Documents” and is divided into two major sectors. The first includes a regional analysis of the recent evolution of science, technology and innovation (STI) policies and national systems in Latin America and the Caribbean (LAC), while the second part presents an inventory of national STI structures, a synthesis of the most outstanding programmes and a summary analysis of the evolution of the main science and technology input and output indicators for each country of the region. The volume ends with several appendixes that provide complementary information used while preparing the report.

<http://unesdoc.unesco.org/images/0018/001898/189823e.pdf> (.pdf) (in English)



Nanotecnologia para o Mercosul: edição 2010 do Prêmio Mercosul de Ciência e Tecnologia

ISBN: 978-85-7652-134-1

Published in 2010 by UNESCO, MBC, RECyT/ MERCOSUL, CNPq

180 p., illus. (POR)

Incl. bibl.

The Mercosur Science and Technology Award was established in 1998 by the Science and Technology Specialized Meeting – RECyT/Mercosur. In its seventh edition, the call for submission was launched on the 5th of April, 2010, with partnership from United Nations Educational, Scientific and Cultural Organization (UNESCO), Brazilian Ministry of Science and Technology (MCT), Brazilian Competitive Movement (MBC) and National Council for Scientific and Technological Development (CNPq), and sponsorship from the Argentinean Ministry of Science, Technology and Productive Innovation (MINCYT), and the Argentinean Nanotechnology Foundation (FAN). The goal of the Award is to recognize and award prizes to the best research works that represent potential contribution to scientific and technological development of Mercosur countries. It also provides incentives for scientific and technological research to be carried out, directed at the regional integration process amongst the countries in the block. In 2010, nanotechnology was chosen as the topic with four categories: Scientific Initiation for

students of upper secondary education up to 21 years of age, University Student for higher education undergraduates with no age limit, Young Researcher for graduated scholars of up to 35 years of age and Integration for teams that have graduated, with no age limit and involving at least two different countries. This book presents the Award winners and the Honour received works in its four categories.

<http://unesdoc.unesco.org/images/0018/001899/189921por.pdf> (.pdf) (in Portuguese)



Ciência, tecnologia e cidadania: desafios para a sociedade

Document code: BR/2010/PI/H/12

Published in 2010 by UNESCO

18p. illus. (POR)

Incl. bibl.

This document was prepared during the workshop 'Ciência, Tecnologia e Cidadania' [Science, Technology, and Citizenship] to serve as subsidies for discussions on the National Conference on Science and Technology to be taking place in May 26 to 28, 2010. The workshop, taken place in March 23, 2010, in Brazilian Delegation of European Union, was promoted by the Spanish Presidency of European Union, the Brazilian Delegation of European Union, UNESCO and Universia. The theme discussed was based on two subthemes: "Scientific Education and the Citizen's Education" and "Governance and the Role of Science and Technology in Society".

<http://unesdoc.unesco.org/images/0018/001882/188260por.pdf> (.pdf) (in Portuguese)

Online Encyclopedia



The **Encyclopedia of Life Support Systems (EOLSS)** is an integrated knowledge base focusing on various aspects of sustainable development, from ecological issues and water & energy management to science & technology policy and human security.

More than 8,000 experts from 110 countries have contributed to this unique virtual and dynamic library, which brings together an equivalent of approximately 600 printed volumes. It is a joint project between UNESCO and EOLSS Publishers Co Ltd.

Universities in least developed and developing countries and many other institutions have free access to the online EOLSS. For further information on how to subscribe to access publications on EOLSS: http://www.eolss.net/eolss_signup.aspx

Some exceptional volumes have been translated and published in print, in collaboration with outside partners such as Magister Press Publishing House (Russia), Mongolian Academy of Sciences (Mongolia) and the China Population and Development Research Center (China). EOLSS is a contribution to the United Nations Decade for Sustainable Development (2005-2014)

For more information: www.eolss.net or contact unesco-eolss@unesco.org



Demography - Encyclopedia of Life Support Systems

ISBN: 978-7-5101-0419-0

Published in 2010 by EOLSS Publishers and China Population and Development Research Center

Edited by Yi Zeng (multi-authored work)
(CHI)

Following the introductory essay, each of the 22 chapters covers a sub-field of demography in depth and contains relevant and necessary details of the established knowledge associated with it. This volume, written by international experts, aims to be of value to the various audiences of both non-specialists and experts who seek a comprehensive understanding of issues related to human population.

English online version available on www.eolss.net



Nanoscience and Nanotechnologies - Encyclopedia of Life Support Systems

ISBN: 978-92-3-4042-01-7

Published in 2011 by UNESCO and EOLSS Publishers and Magister Press Publishing House, 2nd edition

(RUS)

This Volume offers a rich table of contents and includes articles by Laureates of the newly-established UNESCO medal “For contributions to the development of nanoscience and nanotechnologies.” It is intended for the advanced students dealing with nanotechnologies, for professors preparing lectures and seminar studies, professionals, experts who wish apply their knowledge in the fields beyond their specialty, for analysts, managers and executives intending to use the acquired knowledge in the process of decision-making.

First edition available on <http://publishing.unesco.org/results.aspx?QS=nanoscience>

English online version available on www.eolss.net

CD ROM



Water-related component of the Encyclopedia of life Support Systems

Published in 2010 by UNESCO and EOLSS Publishers
(ENG)

This CD on water components of the EOLSS is part of the vast online EOLSS body of knowledge, dedicated to water issues and sustainable development. Readers will find this collection of water-related themes to be a rich source of sound information and in-depth knowledge on the fundamental aspects of water resources, water management and policy, water and health, as well as water systems modeling and hydraulic structures. This CD will be an essential tool for students, researchers and decision-makers. It was produced with the support of the International Hydrological Programme (IHP).

For more information, contact: unesco-eolss@unesco.org

Local and Indigenous knowledge



Learning and Knowing in Indigenous Societies Today

Document code: SC.2009/WS/1

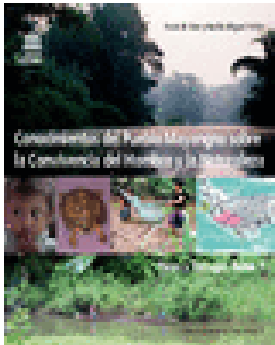
Published in 2009 by UNESCO

128p., illus. (ENG)

Incl.bibl.

The loss of their specialised knowledge of nature is a grave concern for many indigenous communities throughout the world. Education, as it is understood in a Western context, occupies a pivotal role in this process, highlighted by many as both a major cause of the decline of indigenous knowledge, and also as a potential remedy for its demise. Commendable efforts are being made to better align educational curricula with indigenous realities and to incorporate local knowledge and language content into school curricula, but the interrelationship and balance between these two different ways of learning remain delicate. These issues, and attempts to address them, are explored within the UNESCO publication 'Learning and Knowing in Indigenous Societies Today'.

<http://unesdoc.unesco.org/images/0018/001807/180754e.pdf> (.pdf)



Conocimientos del Pueblo Mayangna sobre la Convivencia del Hombre y la Naturaleza: Peces y Tortugas. Tomo 1.

ISBN: Vol.1 SP: 978-92-3304-149-3

Vol.2 SP: 978-92-3304-150-9

Vol.1 Mayangna: 978-92-3404-149-2

Vol.2 Mayangna: 978-92-3404-150-8

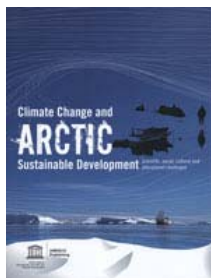
Published in 2010 by UNESCO

Authors: Gros, Paule M. and Frithz, Nacilio Miguel

284 pp. (SPA. YAN)

After several rounds of community-level interviews, discussions and reviews, the project has resulted in a two-volume book of over 400 pages on Mayangna knowledge and know-how. The book, *Conocimientos del Pueblo Mayangna sobre la Convivencia del Hombre y la Naturaleza: Peces y Tortugas*, is divided into two volumes and published in two language versions: Mayangna and Spanish. It captures in meticulous detail the breadth and depth of indigenous knowledge about the aquatic world. A wide range of information about the 30 fishes and six turtles that frequent Mayangna waterways are presented, weaving together empirical observations on behaviour, habitat, reproduction and migration patterns, with social commentaries on sharing, learning or harvesting, and cosmological reflections on human-animal relations and master spirits.

<http://unesdoc.unesco.org/images/0018/001875/187592s.pdf> (.pdf) (in Spanish)



Climate Change and Arctic Sustainable Development - scientific, social, cultural and educational challenges

ISBN: FRE : 978-92-3-2041-39-5 ENG: 978-92-3-1041-39-6

Published in 2010 by UNESCO

420p. (FRE, ENG), illus., maps

Incl. bibl. (Foreword by HSH Prince Albert II of Monaco).

(Foreword by Koïchiro Matsuura, Director-General of UNESCO)

This book brings together the knowledge, concerns and visions of leading Arctic scientists in the natural and social sciences, prominent Chukchi, Even, Inuit and Saami leaders from across the circumpolar North, and international experts in education, health and ethics. They highlight the urgent need for a sustained interdisciplinary and multi-actor approach to monitoring, managing and responding to climate change in the Arctic, and explore avenues by which this can be achieved.

For sale:

http://publishing.unesco.org/details.aspx?&Code_Livre=4736&change=F (French version)

http://publishing.unesco.org/details.aspx?Code_Livre=4722 (English version)



Savoirs des femmes: médecine traditionnelle et nature; Maurice, Réunion, Rodrigues

ISBN: 978-92-3-2041-97-5

Published in 2011 by UNESCO

Author: Laurence Pourchez

120p., illus. (FRE)

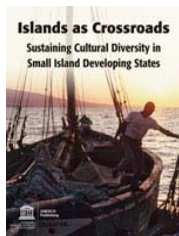
Incl. bibl.

The Islands of Reunión, Mauritius and Rodrigues have their own unique medical traditions. These medical traditions have emerged from multiple origins through a process of creolisation, but they are also closely tied to the natural world in which they have adapted and evolved. They thus provide a key to understanding the wider societies, which are engaged in a constant dialectic between tradition and modernity. This book brings to our attention the knowledge of medicinal plants and medical practices of these women, with special focus on childbirth. It also considers the place of medicinal knowledge within these evolving societies who are actively confronting the threats and opportunities that globalization poses to local identities.

For sale

http://publishing.unesco.org/details.aspx?Code_Livre=4823 (in French)

Small Island Developing States



Islands as Crossroads: sustaining cultural diversity in Small Island Developing States

ISBN: 978-92-3-1041-81-5

Published in 2011 by UNESCO

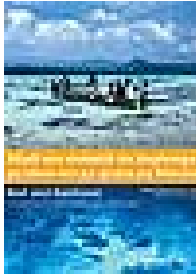
Edited by Tim Curtis

224p. (ENG)

This book brings together scholars of various disciplines from the three main island regions of the world – the Caribbean, Indian Ocean and Pacific Ocean – to explore the ways in which the peoples of small islands have lived, and continue to live, in their culturally diverse societies. Leading anthropologists, historians, economists, archaeologists and others unpack the complexity and dynamics of societies in small island developing states. It reflects the outcomes of a UNESCO symposium held in the Seychelles in 2007.

For sale:

http://publishing.unesco.org/details.aspx?Code_Livre=4799



Study Guide and Teacher's Manual: Reef and Rainforest - An Environmental Encyclopedia Education of Marovo Lagoon, Solomon Islands - A Pilot Project in Vernacular Environmental Education for the Pacific Islands.

Document code: SC.2010/WS/27

Published in 2010 by UNESCO

Knowledge of Nature Series

Author: Edvard Hviding

40p., illus. (ENG)

In addition to describing the plants and animals that make up the lagoon environment, Reef and Rainforest proposes a voyage of discovery into the lives of the Marovo people. The author depicts their daily preoccupations in this complex environment, including their use and management of natural resources, and their role as keepers of these resources, as the traditional owners of clan-based territories on land and sea.



The Jarawa Tribal Reserve Dossier: Cultural & Biological Diversities in the Andaman Islands

Document code: SC.2009/WS/25

Published in 2010 by UNESCO

Edited by Pankaj Sekhsaria and Vishvajit Pandya

215p., illus. (ENG)

Incl. bibl.

One of the most distinctive, but relatively little known features of the Andaman Islands is an entity of land and sea called the Jarawa Tribal Reserve (JTR) – a space legally notified in the name and, arguably, the interests of the Jarawa tribal community. Until recently, the Jarawa were hostile to outsiders. As a result, those who might otherwise have exploited the resources of the reserve – poachers, settlers and developers – were denied access. However, the Jarawa have now chosen to cease hostilities, and the borders of the Jarawa Tribal Reserve have become permeable to intrusion, even though legally off limits to outsiders. The multiple changes that have ensued have enormous ramifications for both the Jarawa people and their lands. As much information relating to the Jarawa and the Reserve remains scattered and difficult to access, this Dossier has undertaken to bring together within the covers of one publication, information and views about the JTR emanating from a number of distinct disciplines. Indeed, one cannot comprehend the complex interactions between the biological and cultural diversity of this unique people and place without adopting an interdisciplinary perspective.

<http://unesdoc.unesco.org/images/0018/001876/187690e.pdf> (.pdf)



Sandwatch: adapting to climate change and educating for sustainable development

ISBN: 978-92-3-1041-79-2

Published in 2010 by UNESCO

Authors: Gillian Cambers and Paul Diamond

Edited by Khalissa Ikhlef, David McDonald and Hans D. Thulstrup

136p., illus. (ENG)

Incl. bibl.

Sandwatch is a global programme, implemented in more than 50 countries worldwide. It provides a framework for children, youth and adults - along with teachers and local communities - to work together to critically evaluate the problems and conflicts facing their beach environments and to develop sustainable approaches to address these issues. This new revised and expanded edition of the Sandwatch manual integrates climate change into all chapters and activities presented in the first edition, and adds a number of new activities, including a guide to documenting and sharing Sandwatch results through the use of social networking websites and other online resources.

<http://unesdoc.unesco.org/images/0018/001894/189418e.pdf> (.pdf)

Basic and Engineering Sciences

Publications



Engineering: Issues, Challenges and Opportunities for Development

ISBN: 978-92-3-1041-56-3

Published in 2010 by UNESCO

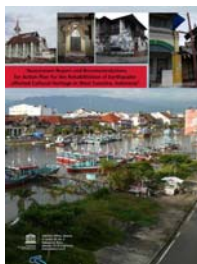
Corporate author: World Federation of Engineering Organizations (WFEO); International Council of Academies of Engineering and Technological Sciences (CAETS); International Federation of Consulting Engineers (FIDIC)

396 p., illus. (ENG)

Incl. bibl.

Engineering drives social, economic and human development and underpins our knowledge societies and infrastructures. It is a major factor in innovation and indeed the rise and fall of civilizations. Major issues and challenges facing the world include the need for poverty reduction, sustainable development, climate change mitigation and adaptation and recovery from the recent financial and economic crisis. Specific challenges facing engineering include reported shortages of engineers around the world. Engineering is also often overlooked by the public and by policy-makers. As this report shows, solutions to these issues and challenges are linked and provide opportunities for change: solving issues facing engineering will help solve challenges facing the world. This UNESCO report, the first ever international study on engineering, includes contributions, case studies, examples of good practice and solutions to the issues and challenges we face from over a hundred leading engineers and commentators around the world.

<http://unesdoc.unesco.org/images/0018/001897/189753e.pdf> (.pdf)



Assessment Report and Recommendations for Action Plan for the Rehabilitation of Earthquake-Affected Cultural Heritage in West-Sumatra, Indonesia

ISBN: 978-979-19957-7-1

Published in 2010 by UNESCO

187p., (ENG)

The “Assessment Report and Recommendations for Action Plan for the Rehabilitation of Earthquake-affected Cultural Heritage in West Sumatra“ presents the results of careful assessments of the damaged Adityawarman Museum and its ceramic collections, the city’s historic architecture and city planning in the earthquake-affected areas.

<http://unesdoc.unesco.org/images/0018/001874/187405M.pdf> (.pdf)



Make the people a part of the solution

Document code: SC/BES/DR/2010/3

Published in 2010 by UNESCO

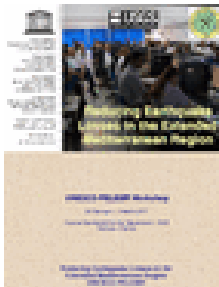
Corporate author: Istanbul Technical University (Turkey)

301p., illus., (ENG)

Incl. bibl.

(extracted from the foreword): The UNESCO-IPRED Workshop on 'Make the Citizens a Part of the Solution' hosted by the Istanbul Technical University (ITU) and supported by the UNESCO and the Japan International Cooperation Agency (JICA) gave the opportunity to advance international cooperation in the evaluation, prevention and mitigation of earthquake disasters. The Workshop held in Istanbul, and its outcomes, which are compiled in this publication, are steps in the acceleration of cooperative work for quick implementation of new findings in rehabilitation techniques as well as in new construction. The outcomes of this Workshop will contribute to the reduction of earthquake losses, and to the health and safety of the millions of people worldwide.

<http://unesdoc.unesco.org/images/0018/001884/188438e.pdf> (.pdf)



Reducing Earthquake Losses in the Extended Mediterranean Region

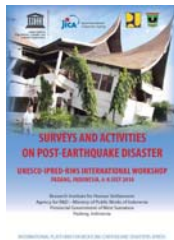
Document code: SC/BES/DR/2011/1

Published in 2011 by UNESCO

69p., (ENG)

The Mediterranean region, because of its geological structure, seismicity, active tectonics, topography and climate, has been frequently subjected to natural disasters resulting in great losses of life and property. UNESCO and the U.S. Geological Survey ([USGS](http://www.usgs.gov)) launched the Reducing Earthquake Losses in the Eastern Mediterranean Region (RELEMR) programme in Cairo in 1993 with the purpose of assessing, evaluating and reducing expected earthquake losses in this region. The goals of RELEMR workshops are to foster data exchange among countries in the region; to conduct joint activities and experiments that would improve the quality of seismic data; to improve hazard assessments in the Mediterranean region; to improve the dissemination of earthquake engineering data; and, ultimately, to improve the seismic provisions of building codes in the region.

<http://unesdoc.unesco.org/images/0019/001913/191307e.pdf> (.pdf)



Surveys and Activities on Post-earthquake Disaster

UNESCO-IPRED-RIHS International workshop

ISBN: 978-92-3-104222-5

Published by UNESCO in 2011

Editorial coordinators: Fani Deviana, Yasuo Katsumi, Jaír Torres

217 p. (ENG)

The UNESCO–IPRED–RIHS Workshop on ‘Surveys and Activities of Post-Earthquake Disaster’ hosted by the Research Institute for Human Settlements (RIHS) and the Ministry of Public Works of Indonesia in cooperation with the Provincial Government of West Sumatra, and supported by the United Nations Educational, Scientific and Cultural Organization (UNESCO) and the Japan International Cooperation Agency (JICA) provided an opportunity to advance international cooperation in the evaluation, prevention and mitigation of earthquake disasters. The workshop, which aimed in particular at discussing activities for post-earthquake reconstruction, provided a fresh impetus for coordinated initiatives in public preparedness and the rehabilitation of buildings. It considered the roles of national and local authorities before, during and after disasters as well as the need for more practitioners who are well-educated, trained and prepared. The outcomes of this workshop, compiled in this publication, will contribute to the reduction of earthquake losses, and to the health and safety of millions of people worldwide.

<http://unesdoc.unesco.org/images/0021/002138/213843e.pdf>



Astrobiología: del Big Bang a las Civilizaciones

ISBN: 978-92-9089-163-5

Published in 2010 by UNESCO

Edited by Guillermo A. Lemarchand and Gonzalo Tancredi,
Oficina Regional de Ciencia para América Latina y el Caribe

371p., illus. (SPA)

Incl. bibl.

During the Second Iberoamerican Graduate School on Astrobiology interesting debates arose among the experts from the biological and physical backgrounds about the probability of the existence of extraterrestrial intelligent beings in the universe. For this reason, it is appropriate to reproduce – for the first time in Spanish – the debate on the subject conducted, in 1995, between Carl Sagan and Ernst Mayr. This debate was organized by Guillermo A. Lemarchand and published in the pages of two consecutive numbers of Bioastronomy News. This publication reproduces the complete debate, including its original introduction.

http://spin.unesco.org.uy/subida/referencias/ref_802.pdf (.pdf) (in Spanish)



LHC: Large Hadron Collider

Photo book

ISBN: 978-3-901753-28-2

Published in 2011 by UNESCO/CERN/Edition Lammerhuber

Peter Ginter, Rolf-Dieter Heuer, Franzobel

274 p., (ENG, FRA, ESP)

The LHC collides lead ions to recreate the conditions just after the Big Bang under laboratory conditions. The data obtained will allow physicists to study a state of matter known as quark-gluon plasma, which is believed to have existed soon after the Big Bang. The ATLAS detector is one of two general-purpose detectors at the LHC. It will investigate a wide range of physics, including the search for the Higgs boson, extra dimensions, and particles that could make up dark matter. ATLAS will record sets of measurements on the particles created in collisions. More than 2,900 scientists from 172 institutes in 37 countries work on the ATLAS experiment. The LHC experiment will help us to understand why we live in a Universe that appears to be composed almost entirely of matter, but no antimatter. It specialises in investigating the slight differences between matter and antimatter.

For sale:

http://publishing.unesco.org/details.aspx?&Code_Livre=4851&change=E

Water Sciences

Publications



Water History of our Times

IHP essays on water history; 2

Document code: SC-2011/WS/5

Published in 2011 by the International Hydrological Programme (IHP) of the UNESCO

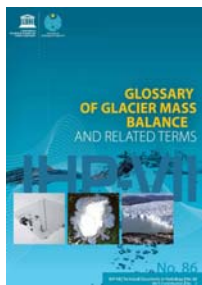
Author: Hassan, Fekri

122 p. (ENG)

Incl. Bibl.

The book purpose is to foster a better understanding of the historical development, cultural diversity and ethics of freshwater use and management, and its relationship to issues of equity, cooperation and social cohesion, which is considered a prerequisite for the equitable and peaceful sharing of water resources. The essay deploys an innovative transformational theory that connects global, history-bending developments and structural changes in the relationship between water management and societies. Spanning the period from the first adoption of agriculture about 10,000 years ago until today, *Water History for our Times* casts a new light on world history, illuming it through the vital prism of water.

<http://unesdoc.unesco.org/images/0021/002108/210879e.pdf>



Glossary of Glacier Mass Balance and Related terms

Technical documents in hydrology no. 86

Document code: SC.2011/WS/4

Published in 2011 by the International Hydrological Programme (IHP) of the UNESCO

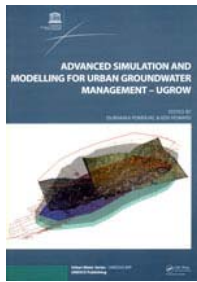
Authors: Cogley, J.G.; Hock, R.; Rasmussen, L.A.; Arendt, A.A.; Bauder, A.; Jansson, P.; Braithwaite, R.J.; Kaser, G.; Möller, M.; Nicholson, L.; Zemp, M.

124p., illus. (ENG)

Incl. bibl.

This glossary, produced by a Working Group of the International Association of Cryospheric Sciences (IACS), is the first comprehensive update of glacier mass –balance terms for more than 40 years. The mass balance of the glacier is a measure of the change in mass of the glacier, or part of it, over a period of time. Mass-balance information is essential for defining the links between past, present and future climate changes and changes to glaciers in assessments such as those made by the Intergovernmental Panel on Climate Change (IPCC). Having a systematic, concise and unambiguous mass-balance terminology is a critical part of this.

<http://unesdoc.unesco.org/images/0019/001925/192525e.pdf> (.pdf)



Advanced Simulation and Modelling for Urban Groundwater Management – UGROW - Urban Water Series

ISBN: 978-92-3-104173-0

Published in 2010 by UNESCO

Edited by Dubravka Pokrajac and Ken Howard

252 p., illus. (ENG) + 1 CD-ROM

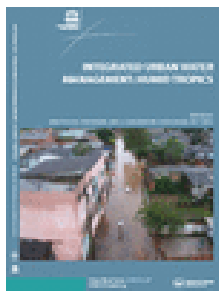
Incl. bibl.

Groundwater plays a vital role in the urban water cycle but is frequently ignored. The assessment and evaluation of urban water systems rarely consider the contribution of groundwater to the urban water budget, and available decision-support tools for integrated urban water management often fail to include aquifer storage and the strong two-way interaction that commonly occurs between groundwater and surface water and other urban water system components.

Advanced Simulation and Modelling for Urban Groundwater Management – UGROW presents the result of a project of UNESCO’s International Hydrological Programme on the topic. The book presents UGROW—a complete and fully integrated Modelling package—for simulating urban water systems. As a decision-support tool for urban water management, it focuses on urban groundwater, but all other key urban water system elements are fully represented and seamlessly linked. The theory behind UGROW is thoroughly described in the book, with three case studies illustrating how UGROW can be applied in practice. A CD-ROM containing a fully functional version of UGROW is included in the book.

For sale

http://publishing.unesco.org/details.aspx?&Code_Livre=4776&change=E



Integrated Urban Water Management: Humid Tropics

ISBN: 978-92-3-1040-65-8

Published in 2010 by UNESCO

Edited by Parkinson, Jonathan N.; Goldenfum, Joel.A.; Tucci, Carlos E.M.

182p. illus. (ENG)

Excess water in the urban environment leads to flooding, which in turn causes structural damage, risks to personal safety and disruption to city life. Water is also a major contributory factor in disease transmission as well as being the transport medium of many pollutants. These problems are of increasing concern due to climate changes and are particularly apparent in the humid tropics. Integrated Urban Water Management: Humid Tropics – the output of a project by UNESCO’s International Hydrological Programme on the topic – focuses on engineering aspects related to water supply, wastewater and stormwater management in the humid tropics. Flood control is dealt with, focusing on

reducing vulnerability to flood disasters in urban areas. The book also addresses environmental health concerns related to the different components of the urban water system and proposes strategies for their control. It illustrates different aspects of integrated water management in the urban environment by drawing upon a set of case studies – predominantly from South America.

For sale

http://publishing.unesco.org/details.aspx?Code_Livre=4735



Sharing water, sharing benefits: working towards effective transboundary water resources management; a graduate/professional skills-building workbook

ISBN: 978-92-3-1044-67-9

Published in 2010 by UNESCO

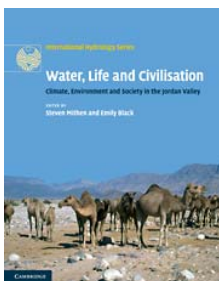
Compiled and edited by Prof. Aaron T. Wolf

284p., illus. (ENG)

Incl. bibl. (Adapted from the World Bank International Waters Course)

Many solutions to water problems lie in better governance, with sharing water as one of the key challenges to be addressed. Although there is a growing literature in the field of water conflict resolution, many water professionals still lack the necessary tools to resolve water conflicts. UNESCO has thus partnered with the World Bank in the publication of this workbook, developed through training courses and seminars funded by the International Waters Window of the World Bank-Netherlands Water Partnership Program (BNWPP), with the goal of making the information available to a wider audience across the globe. The publication is meant for use by mediators, instructors, and facilitators in collaborative learning exercises. The material focuses on the skills necessary for managing water disputes at all levels, from the interpersonal to the international.

<http://unesdoc.unesco.org/images/0018/001893/189394e.pdf> (.pdf)



Water, Life and Civilisation: Climate, Environment and Society in the Jordan Valley

ISBN: 978-05-2176-957-0

International Hydrology Series

Published in 2011 by

Edited by Steven Mithen and Emily Black

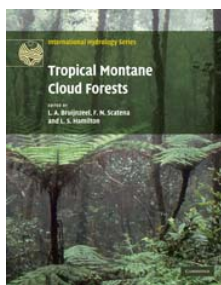
239p., illus. (ENG)

(extracted from CUP website): A unique interdisciplinary study of the relationships between climate, hydrology and human society from 20,000 years ago to the present day within the Jordan Valley. It describes how state-of-the-art models can simulate the past,

present and future climates of the Near East, reviews and provides new evidence for environmental change from geological deposits, builds hydrological models for the River Jordan and associated wadis and explains how present day urban and rural communities manage their water supply. The volume provides a new approach and new methods that can be applied for exploring the relationships between climate, hydrology and human society in arid and semi-arid regions throughout the world. It is an invaluable reference for researchers and advanced students concerned with the impacts of climate change and hydrology on human society, especially in the Near East.

For sale

http://www.cambridge.org/gb/knowledge/isbn/item5687726/?site_locale=en_GB



Tropical Montane Cloud Forests: Science for Conservation and Management

Series: The International Hydrology Series

ISBN: 978-05-2176-035-5

Published in 2011 by Cambridge University Press

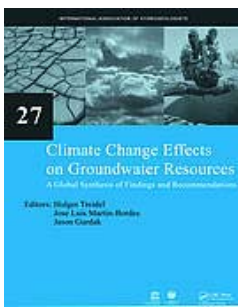
Edited by L.A. Bruijnzeel, F.N. Scatena, L.S. Hamilton

768p., illus. (ENG)

(extracted from CUP website): This volume represents a uniquely comprehensive overview of our current knowledge on tropical montane cloud forests. Seventy-two chapters cover a wide spectrum of topics including cloud forest distribution, climate, soils, biodiversity, hydrological processes, hydrochemistry and water quality, climate change impacts, and cloud forest conservation, management, and restoration. The final chapter presents a major synthesis by some of the world's leading cloud forest researchers, which summarizes our current knowledge and considers the sustainability of these forests in an ever-changing world. This book presents state-of-the-art knowledge concerning cloud forest occurrence and status, as well as the biological and hydrological value of these unique forests. The presentation is academic but with a firm practical emphasis. It will serve as a core reference for academic researchers and students of environmental science and ecology, as well as practitioners (natural resources management, forest conservation) and decision makers at local, national, and international levels.

For sale

http://www.cambridge.org/gb/knowledge/isbn/item2713605/?site_locale=en_GB



Climate Change Effects on Groundwater Resources

A Global Synthesis of Findings and Recommendations

ISBN: 978-0415689366

Published in 2011 by CRC Press

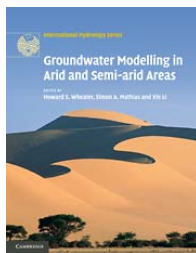
Edited by: Holger Treidel, José-Luis Martín-Bordes and Jason J. Gurdak

414 p. (ENG)

Climate Change is modifying the global hydrological cycle and affects freshwater resources, both in terms of quantity and quality. This is also true for groundwater resources that form an important part of the water cycle, and are a critical source of drinking water for almost half the world's population, supply irrigated agriculture and sustain streams, wetlands and associated ecosystems. But despite this importance our knowledge on how groundwater resources respond to the pressures of climate change & variability and increased human activities has remained limited compared to climate change effects on surface water.

In the framework of UNESCO's GRAPHIC project (Groundwater Resources Assessment under the Pressures of Humanity and Climate Change) numerous case studies have been carried out over the past years, investigating the effects of climate change and human activities on groundwater resources. 20 of these case studies from diverse aquifer systems, and climatic settings around the world have now been published with Taylor and Francis – CRC Press in cooperation with the International Association of Hydrogeologists (IAH). This book presents a current and global synthesis of scientific findings and derived policy recommendations for scientists, water managers and policy makers towards adaptive management of groundwater sustainability under future climate change and variability.

For sale: <http://www.crcpress.com/product/isbn/9780415689366>



Groundwater Modelling in Arid and Semi-Arid Areas

ISBN: 978-05-2111-129-4

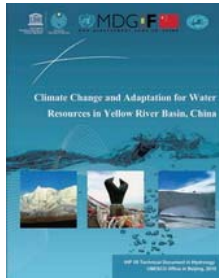
Published in 2010 by Cambridge University Press

Edited by Howard Wheater, Simon Mathias and Xin Li

150p., illus. (ENG)

(extracted from CUP website): Arid and semi-arid regions face major challenges in the management of scarce freshwater resources under pressures of population, economic development, climate change, pollution and over-abstraction. Groundwater is commonly the most important water resource in these areas. Groundwater models are widely used globally to understand groundwater systems and to guide decisions on management. However, the hydrology of arid and semi-arid areas is very different from that of humid regions, and there is little guidance on the special challenges of groundwater modelling for these areas. This book brings together the experience of internationally-leading experts to fill a gap in the scientific and technical literature. It introduces state-of-the-art methods for modelling groundwater resources, illustrated with a wide-ranging set of illustrative examples from around the world. The book is valuable for researchers, practitioners in developed and developing countries, and graduate students in hydrology, hydrogeology, water resources management, environmental engineering and geography.

For sale: http://www.cambridge.org/gb/knowledge/isbn/item5562470/?site_locale=en_GB



Climate Change and Adaptation for Water Resources in Yellow River Basin, China

IHP VII Technical Document in Hydrology
Published in 2010 by UNESCO Office in Beijing
126p., illus. (ENG)
Incl. bibl.

This publication is compilation of research papers on impact of climate change and adaptation for water resources in Yellow River Basin under the MDG Achievement Fund supported UN China initiative of Climate Change Partnership Framework (CCPF). Some of the research papers were presented during the inception workshop and 4th Yellow River Forum.

<http://unesdoc.unesco.org/images/0018/001879/187933e.pdf> (.pdf)

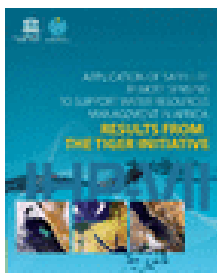


Managing shared aquifer resources in Africa: proceedings

IHP-VII Series on Groundwater
Published in 2010 by UNESCO
322p., (MUL)

This volume compiles the proceedings of the Third International Conference on ‘Managing Shared Aquifer Resources in Africa’, convened in Tripoli from 25–27 May 2008. The Conference gave recognition to the importance of shared groundwater resources in Africa, in supporting livelihoods and thus providing a basis for human welfare. The conference likewise emphasized the lack of data, knowledge and capacity that is hindering sustainable management of the shared resources in many places. The outcomes of the conference will provide beneficial information for groundwater resources-related activities to be organized by international organizations during the next years.

<http://unesdoc.unesco.org/images/0018/001884/188462m.pdf> (.pdf)

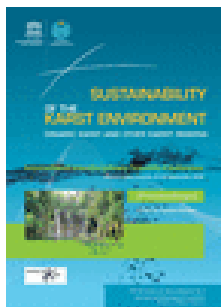


Application of Satellite Remote Sensing to Support Water Resources Management in Africa: Results from the TIGER Initiative

Document code: SC.2010/WS/15
Published in 2010 by UNESCO
153p., illus. (MUL)

The European Space Agency (ESA) in the context of the Committee of Earth Observation Satellites (CEOS) started the TIGER initiative as a concrete action following the resolutions of the World Summit on Sustainable Development held in Johannesburg. The initiative aims at assisting African countries to overcome problems faced in the collection, analysis and dissemination of water related geo-information by exploiting the advantages of Earth Observation (EO) technology. In the last few years, under the leadership of the African Ministerial Council on Water (AMCOW), TIGER has evolved with main contributions by ESA, UNESCO and the Canadian Space Agency (CSA) and with collaboration of other partners such as the Economic Commission for Africa (UNECA), the African Development Bank (AfDB) and other African and International organizations. UNESCO through its International Hydrological Programme (IHP), agreed to publish the results provided by several different groups involved in the TIGER research and pre-operational projects in the series IHP Technical Documents in Hydrology. It hoped that this publication will stimulate researchers worldwide to perform additional in-depth work and analysis on the exploitation of space borne remote sensing technology for water resources in Africa.

<http://unesdoc.unesco.org/images/0018/001880/188045m.pdf> (.pdf)



Sustainability of the karst environment: dinaric karst and other karst regions; International Interdisciplinary Scientific Conference: proceedings
IHP-VII Series on Groundwater; 2
Published in 2010 by UNESCO
Edited by Ognjen Bonacci
186p., illus. (ENG)
Incl. bibl.

The objective of the international interdisciplinary scientific conference “Sustainability of the karst environment - Dinaric karst and other karst regions”, organized by Centre for Karst, Gospić, Croatia, was to give a theoretical and practical contribution to the concept of sustainable development in karst regions, with a special emphasis on the experiences achieved in the Dinaric karst region. The exchange of information and findings obtained in other karst regions worldwide allows for an integral approach to this complex issue, and thereby contribute towards finding reliable solutions. The basic objective of the conference was to apply an interdisciplinary approach to scientifically assess the issues of sustainable development of all forms of karst.

<http://unesdoc.unesco.org/images/0018/001885/188582e.pdf> (.pdf)



Water and Peace for the People – Possible solutions to water disputes in the Middle East (Arabic edition)

ISBN: 978-92-3-6040-86-8

UNESCO-IHP Water and Conflict Resolution Series

Published in 2010 by UNESCO

By Jon Martin Trondalen

Revised by Dr Joseph Abou Najm

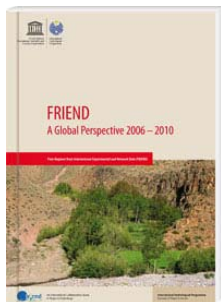
246p., illus. (ARA)

Incl. bibl.

This book proposes practical and objective solutions to the entrenched water conflicts in the Middle East. The author reveals and clarifies the complexity of the water conflicts, drawing on years of experience facilitating and chairing water negotiations in the region. The publication of this book follows the objective of UNESCO's PCCP Programme: it facilitates multi-level and interdisciplinary dialogue in order to foster peace, co-operation and development in the management of shared water resources.

The bottom line is: Unless the countries involved co-operate, the consequences will be devastating. The lack of plentiful and clean water for the people will not only result in severe human suffering, but could also have grave geopolitical consequences.

http://publishing.unesco.org/details.aspx?Code_Livre=4780



FRIEND – a global perspective 2006 – 2010

Published in 2010 by the German National Committee for IHP/UNESCO and HWRP/WMO, in cooperation with the FRIEND Intergroup Coordinating Committee

Edited by Yan Huang and Siegfried Demuth.

150p., illus. (ENG)

On the occasion of the 6th FRIEND World Conference "Global Change: Facing Risks and Threats to Water Resources" held in October 2010 in Fez, Morocco, the report titled "FRIEND, A Global Perspective 2006-2010" has been drawn up and published. Divided into the 8 FRIEND regions, i.e. Europe, Mediterranean, Latin America and Caribbean, Southern Africa, West and Central Africa, Asian Pacific, Hindu-Kush Himalayan and Nile Basin, the report gives an outline of current databases and research activities. It points out hydrological challenges and exemplifies projects. Another chapter provides information on FRIEND's capacity development programmes. The enclosure lists i.a. the scientists involved as well as the FRIEND publications 2006-2010.

This report is available free of cost from the IHP/HWRP Secretariat (conde@bafg.de)



Status and Perspectives of Hydrology in Small Basins: Results and recommendations of the International Workshop in Goslar-Hahnenklee, Germany 2009 and Inventory of Small Hydrological Research Basins

ISSN: 1614-1180

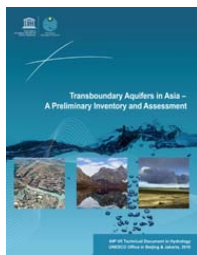
Published in 2010 by Koblenz

Authors: Sybille Schumann, Britta Schmalz, Henning Meesenburg, Ulrich Schröder

70p., (ENG)

This technical report releases the Braunschweig Declaration, summarizes the main results of the working groups and provides a hard copy of the Inventory of Small Hydrological Research Basins including European Representative Basins (ERB) representing the status of the end of 2009.

To order: <http://ihp.bafg.de/servlet/is/15658/>



Transboundary aquifers in Asia: a preliminary inventory and assessment

Technical documents in Hydrology

Published in 2010 by UNESCO

Corporate authors: UNESCO Office Beijing, UNESCO Office Jakarta and Regional Bureau for Science in Asia and the Pacific

146p., illus., (ENG)

Incl. bibl.

This publication is a compilation of research papers prepared as a contribution to a transboundary aquifer inventory in Asia under UNESCO-IHP VII theme on Internationally Shared Aquifer Resources Management. As a regional atlas, this volume presents hydrogeological data and other information crucial to the future sustainability of transboundary aquifers in the region. The volume is organized into three parts: a) groundwater conditions in Asia, b) regional major transboundary aquifers inventory and c) case studies from country/basin level. The publication also provides a factual backdrop to the Resolution of the United Nations General Assembly on the Law of Transboundary Aquifers by a lead expert of the United Nations International Law Commission.

<http://unesdoc.unesco.org/images/0019/001902/190240e.pdf> (.pdf)



Groundwater for Emergency situations: A Methodological Guide

Document code: IHP-VII/2011/GW-3

IHP-VII series on groundwater

Published in 2011 by UNESCO

Edited by Jaroslav Vrba and Balthazar Verhagen

317p. illus. (ENG)

The precipitate growth of disasters that affect ever-increasing numbers of humanity in recent years and the inevitable attendant crisis in the emergency of supplying drinking water has prompted the UNESCO International Hydrological Programme (IHP) to undertake a project entitled 'Groundwater for Emergency Situations' (GWES). The aim of the GWES project is to identify emergency groundwater resources bodies resistant to natural and man-made disasters that could replace damaged public and domestic drinking water supplies. This Methodological Guide provides indications for the protection and management of aquifers to be used in emergency. It also outlines the governance policy framework in which groundwater as an emergency resource may be integrated into overall emergency management and service provision.

<http://unesdoc.unesco.org/images/0019/001921/192182e.pdf> (.pdf)



Transboundary aquifers: challenges and new directions; abstracts

Document code; SC.2010/WS/28

Published in 2010 by UNESCO

180p + CD-ROM, (ENG)

The UNESCO International Shared Aquifer Resources Management (ISARM) programme is a multidisciplinary initiative that works in close cooperation with IAH, FAO, UNECE, OAS, UN-ESCWA as well as with other international, regional and national institutions. The timing of the ISARM2010 Conference was crucial as it marked the end of Phase I of the ISARM Programme (2000-2010) and the start of Phase II. The first phase of the programme was dedicated to compiling a global inventory of Transboundary aquifers that has since been published by UNESCO-IHP. The debates that took place during the Conference are expected to contribute towards the formulation of the second phase of ISARM as well as provide guidance to stakeholders in the management of these 'invisible', and yet essential, groundwater resources. This publication contains the abstracts of papers and posters that were presented during the UNESCO International Conference on Transboundary Aquifers (ISARM2010) in Paris, 6-8 December 2010.

<http://unesdoc.unesco.org/images/0019/001901/190140e.pdf> (.pdf)



GHG Measurement Guidelines for Freshwater Reservoirs

ISBN: 978-0-9566-228-0-8

Published in 2010 by UNESCO

138p., (ENG)

A major milestone has been reached in the UNESCO/IHA Greenhouse Gas Status of Freshwater Reservoirs Project, with the publication of the GHG Measurement Guidelines for Freshwater Reservoirs, a landmark publication and the current standard on measuring GHG emissions from reservoirs. The publication provides individuals responsible in this area with a comprehensive tool to assess the GHG status of Freshwater reservoirs, including definitive guidance on measurement and qualification of emissions resulting from the formation of reservoirs. Guidance covers: concepts and processes involved in making such measurements, the approach to conducting field measurements, and guidance on calculating results.

For more information on how to order:

http://www.hydropower.org/climate_initiatives/GHG_Measurement_Guidelines.html

Hydrocomplexity: New Tools for Solving Wicked Water Problems

ISBN: 978-1-9071-61-11-7

Published in 2010 by UNESCO

272p. (ENG)

Human activities have become major drivers of change in the Earth's biosphere, resulting in deterioration of water quality, overexploitation of freshwater resources, adverse effects of hydrological hazards and landscape degradation, which make water problems complex and wicked. The same activities also affect the functioning of ecosystems and their ability to provide goods and services on which human well-being depends. There is a need for community-based transdisciplinary management tools to provide a better understanding of water as both an abiotic resource and as a service delivered by ecosystems. This book, launched at the 10th International Hydrology Programme (IHP)/IAHS Kovacs Colloquium, held at UNESCO, Paris, contains the keynote papers by the invited speakers and extended abstracts of the posters, focusing on the issues of complexity of wicked water problems and the type of tools that can be used to solve them.

For sale:

<http://iahs.info/redbooks/338.htm>

Global Change : Facing Risks and Threats to Water Resources: Proceedings of the 6th World FRIEND Conference, Fez (Morocco), 25-29 October 2010

ISBN: 978-1-9071-61-13-1

Published in 2010 by UNESCO

Edited by Eric Servat, Siegfried Demuth, Alain Dezetter & Trevor Daniell

704p., (ENG)

Substantial contributions address: Hydro-hazards, Adaptation Strategies, Human Pressure on Limited Resources, Environmental Information and Monitoring Systems, and Large Scale Hydroclimatic Variability and Impact; these are the edited proceedings of the 6th World FRIEND Conference. FRIEND (Flow Regimes from International Experimental and Network Data) is an international research programme that helps to set up regional networks for analysing hydrological data, and aims to improve the understanding of hydrological variability and similarity across time and space through a mutual exchange of data, knowledge and techniques at the regional level.

For sale:

<http://iahs.info/redbooks/340.htm>



Minería sustentable en zonas áridas - Aportes temáticos del Proyecto CAMINAR (PHI-VII/Documento Técnico N° 15)

ISBN: 978-92-9089-133-8

Published in 2009 by UNESCO

PHI Uruguay

220p., (SPA)

This publication considers the following aspects: (1) the availability of water in northern Chile, where he puts most of the resources and the country's mining operations, (2) the interrelationships between water demands of the mining industry water needs for irrigation in agriculture, (3) basic water requirements of indigenous communities in northern Chile, (4) potential environmental or economic conflicts arising from the granting of rights over water and its effect on lack of resources, (5) climate changes of global and continental levels that may affect the fragile water balance of this part of Chilean territory, and (6) the different options that mining companies can take to meet their present needs and demands expansion.

<http://www.unesco.org.uy/phi/biblioteca/bitstream/123456789/476/1/Mineria+Sustentabl+en+Zonas+Aridas.PDF> (.pdf) (in Spanish)



Documento Técnico PHI No 16 - Cianobacterias Planctónicas del Uruguay: Manual para la identificación y medidas de gestión (PHI-VII PHI-VII/Documento Técnico N° 16)

ISBN: 978-92-9089-138-3

Published in 2009 by UNESCO

PHI Uruguay

105p., (SPA)

This book seeks to leave academia to provide quality information to a wider audience. It aims to provide tools for better understanding and management of cyanobacterial blooms in freshwater systems for use by trained technicians, researchers, tertiary students and educators. This project was made possible by gathering information from various researches on water quality and phytoplankton carried out by the Limnology Section, Faculty of Science, University of the Republic, since its inception in 1984.

<http://www.unesco.org.uy/phi/biblioteca/bitstream/123456789/473/1/Cianobacterias+Planctonicas+del+Uruguay.pdf> (.pdf) (in Spanish)



Agua y Minería en Cuencas Áridas y Semiáridas: Guía para la gestión integral. Proyecto CAMINAR: Catchment Management and Mining Impacts in Arid and Semi-arid South America / Gestión de Cuencas con Actividad Minera en Regiones Áridas y Semiáridas en Sudamérica

ISBN: 978-92-9089-136-9

Published in 2009 by UNESCO

Edited by Virginia López Castellanos PHI Uruguay

231p., illus. (SPA)

Incl. bibl.

Facing the increasing demand for hydrological resources, in moments when the threat of climate change is making more and more uncertain the availability of freshwater, various of the international entities have launched programmes and projects with the aim of improving the administration and conservation of water. The CAMINAR project (Catchment Management and Mining Impacts in Arid and Semi-Arid South America; Gestión de Cuencas con Actividad Minera en Regiones Áridas y Semiáridas en Sudamérica) of the Sixth Framework Programme of the European Commission is aimed at improving the administration of water and the mining activities in the arid and semi-arid zones of South America in particular Peru, Bolivia and Chile, countries where the economy highly relies on the exportation of natural resources, and in particular metals from the mining industry. The book is divided in two parts: Planning of the administration of water and the mining administration in arid and semi-arid areas.

<http://www.unesco.org.uy/phi/biblioteca/bitstream/123456789/479/1/AGUA+Y+MINER%c3%8dA+EN+CUENCAS+%c3%81RIDAS+Y+SEMI%c3%81RIDAS+-+GU%c3%8dA+PARA+LA+GESTI%c3%93N+INTEGRAL.pdf> (.pdf) (in Spanish)



Propuesta de un modelo de estimación de erosión hídrica para la región de Coquimbo, Chile (PHI-VII Documento Técnico N° 18)

ISBN: 978-92-9089-137-6

Published in 2009 by UNESCO

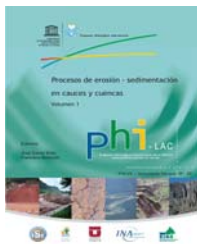
PHI Uruguay

Authors: R. Pizarro, C. Morales, L. Vega, C. Olivares, R. Valdes and F. Balocchi

102p., (SPA)

This book presents predicting models of water erosion, which are applicable for the region of Coquimbo in Chile, an arid and semi-arid region in Central Chile.

http://www.unesco.org.uy/phi/biblioteca/bitstream/123456789/483/1/Propuesta+modelo+estimacion+erosion+hidrica+Coquimbo+Chile_completo.pdf (.pdf) (in Spanish)



Procesos de erosión – sedimentación en cauces y cuencas – Volumen 1 (PHI-VII/Documento Técnico N° 22)

ISBN: 978-92-9089-152-9

Published in 2010 by UNESCO

PHI Uruguay

144p., (SPA)

On August 20, 2010 in the Secretariat of Water Resources of Argentina, Buenos Aires, was held the launching of the book "Erosion processes and sedimentation in bed and river basins, volume I", a scientific contribution by the ISI Programme (International Sediment Initiative) of the International Hydrological Programme. This program has been featured in the IHP Intergovernmental Council in Paris, which warned that erosion processes and sedimentation, and river basins management in rivers and water bodies, are increasingly important at a global level, and also highlighted the relevance these processes have from a socio-economic and environmental perspective.

<http://www.unesco.org.uy/phi/biblioteca/bitstream/123456789/477/1/Erosion+y+sedimentacion+vol+1.pdf> (.pdf) (in Spanish)



Aspectos Socioeconómicos, Ambientales y Climáticos de los Sistemas Acuíferos Transfronterizos de las Américas, Serie ISARM Americas N° 3

ISBN: 978-92-9089-157-4

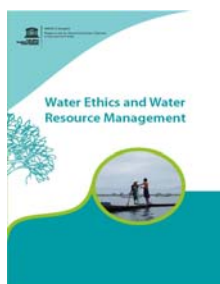
Published in 2010 by UNESCO

PHI Uruguay

559p., illus., (SPA)

The book presents the process and evolution of ISARM Americas, an overview of the transboundary aquifers (TBAs) in the region, information on socio-economic aspects, environmental and climatic of TBAs in the Americas, a regional knowledge analysis, the conclusions and recommendations for future actions.

http://www.unesco.org/uy/dspace/bitstream/123456789/481/1/ISARM_3_Esp.pdf (.pdf)
(in Spanish)



Water Ethics and Water Resources Management

ISBN: 978-92-9223-358-7 (print version)

ISBN: 978-92-9223-359-4 (electronic version)

Published in 2011 by UNESCO Bangkok

Edited by Darryl R.J. Macer

84p., illus., (ENG)

Incl.bibl.

This report examines ethical issues associated with water resource utilization and management, including its uses in energy and other domains. Under the “Ethics and Climate Change in Asia and the Pacific” (ECCAP) project, the Water Ethics working group has compiled a report with some case studies highlighting different ethical issues associated with water resource utilization and management. The report systematically discusses how water ethics can make a difference to water related practices and provides a cross-cultural review of the issues. The report reveals gaps in existing knowledge to researchers, policy makers and funders of research, which could be used to examine linkages between research and policy making, and presents areas of policy options to governments.

<http://unesdoc.unesco.org/images/0019/001922/192256e.pdf> (.pdf)

Atlas



Atlas pluviométrico del Ecuador (PHI-VII/Documento Técnico N° 21)

ISBN: 978-92-9089-140-6

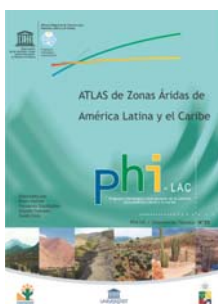
Published in 2010 by

PHI Uruguay

89p., (SPA)

This publication proposes a systematic presentation of information in relation to precipitation on the Ecuadorian territory between 1951 and 2007 on the basis of data from GPCC (Global Precipitation Climatology Centre, Deutscher Wetterdienst) Full data Reanalysis Version 4 (GPCC4).

<http://www.unesco.org.uy/phi/biblioteca/bitstream/123456789/474/1/Atlas+Pluviom%c3%a9trico+del+Ecuador..pdf> (.pdf) (in Spanish)



Atlas de Zonas Áridas de América Latina y el Caribe (CAZALAC) (PHI-VII/Documento Técnico N° 25)

ISBN: 978-92-9089-164-2

Published in 2010 by UNESCO

PHI Uruguay

55p., (SPA)

http://www.unesco.org.uy/phi/biblioteca/bitstream/123456789/482/1/Atlas_de_Zonas_Aridas_de_ALC_Espanol.pdf (.pdf) (in Spanish)

Aqua Lac Journal



Aqua-LAC

Published in 2010 by UNESCO and PHI Uruguay

A year-long goal widely pursued by the International Hydrological Programme for Latin America and the Caribbean (IHP-LAC) was the publication of a scientific magazine focusing on water resources. With this initiative, the magazine attempts to fill a niche that integrates, in a multi-disciplinary form, the results from scientific and socio-economic research, the legal aspects, the use of innovative technologies, and integrated and appropriate management of the available resources – all of which without disregarding the right transfer of the scientific advances to the society, and the administrative, managing and planning instances.

Aqua-LAC Vol.2 No.1

ISSN: 1688-2873

Published in March 2010

<http://www.unesco.org.uy/phi/aqualac/fileadmin/phi/aqualac/AquaLAC-Numero3-Vol2-web.pdf> (.pdf) (in Spanish)

Aqua-LAC Vol.2 No.2

ISSN: 1688 2873

Published in September 2010 by UNESCO

<http://www.unesco.org.uy/phi/aqualac/fileadmin/phi/aqualac/AqualacSet2010.pdf> (.pdf) (in Spanish)

World Water Development Report (WWDP3)

Publications



WWAP Special Report: Water, Energy and Climate Change
from
WWDR3: Water in a Changing World
ISBN: 978-9-23104-095-5
Published in 2009 by UNESCO
349p., (ENG)

The United Nations World Water Development Report, released every three years in conjunction with the World Water Forum, is the UN's flagship report on water. It is a comprehensive review that gives an overall picture of the state of the world's freshwater resources and aims to provide decision-makers with the tools to implement sustainable use of our water. Through a series of assessments, the Reports provide a mechanism for monitoring changes in the resource and its management and tracking progress towards achieving targets, particularly those of the Millennium Development Goals (MDGs) and the World Summit on Sustainable Development. The Reports also offer best practices as well as in-depth theoretical analyses to help stimulate ideas and actions for better stewardship in the water sector.

http://www.unesco.org/water/wwap/wwdr/wwdr3/pdf/WWDR3_Water_in_a_Changing_World.pdf (.pdf)

WWDR Policy Briefs



Water for Sustainable Urban Human Settlements
Published in 2010 by UNESCO -WWAP
8p. (FRE, ENG, SPA, ITA)

Already today, half of the world's people live in urban areas. By the middle of this century all regions will be predominantly urban. Building on the outcomes of the WWDR3 and on work implemented by UN-HABITAT, this Briefing Note restates the critical water-related challenges of this unprecedented urban expansion – from providing access to basic services to ensuring environmental and human security. The paper provides urban mayors, leaders and high-level decision makers with concrete policy options to meet these challenges, protect against potential water-related disasters and ensure the development of sustainable urban settlements.

http://www.unesco.org/water/wwap/wwdr/pdf/WWAP_Urban_Settlements_Web_version.pdf (.pdf)

Messages Series to Stakeholders

Published by WWAP
(FRE, ENG, SPA)

Available on:

<http://www.unesco.org/water/wwap/wwdr/wwdr3/messages.shtml>

Water for the Millennium Development Goals: Why managing water resources wisely is key to achieving the MDGs

Published by WWAP
2p., (ENG)

http://www.unesco.org/water/wwap/publications/WWAP_Water_and_MDGs.pdf (.pdf)

Oceans

Publications

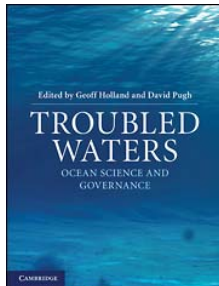


The international thermodynamic equation of seawater - 2010: Calculation and use of thermodynamic properties Intergovernmental Oceanographic Commission, Manuals and Guides No. 56

Published in 2010 by UNESCO
Corporate authors: IOC, SCOR, IAPSO
196 p. (ENG)
Incl. bibl.

The document outlines how the thermodynamic properties of seawater are evaluated using the International Thermodynamic Equation of Seawater - 2010 (TEOS-10). This thermodynamic description of seawater is based on a Gibbs function formulation from which thermodynamic properties such as entropy, potential temperature, enthalpy and potential enthalpy are calculated directly. The TEOS-10 Manual describes how the thermodynamic properties of seawater, ice and moist air are used in order to accurately represent the transport of heat in the ocean and the exchange of heat with the atmosphere and with ice.

<http://unesdoc.unesco.org/images/0018/001881/188170e.pdf> (.pdf)



Troubled waters: ocean science and governance

ISBN: 978-0-521-76581-7
Published in 2010 by Cambridge University Press
Edited by Geoff Holland and David Pugh
316p. (ENG)
Incl. bibl. (Foreword by HSH. Prince Albert of Monaco)

This volume has been compiled to commemorate the 50th anniversary of the Intergovernmental Oceanographic Commission of UNESCO, which for half a century has been the UN organization responsible for fostering intergovernmental cooperation on global ocean issues. With a focus on key topical issues such as marine pollution, exploitation and hazards, Troubled Waters reflects on past successes and failures in ocean management and emphasizes the need for knowledge and effective government action to direct decisions that will ensure a sustainable future for this precious resource.

For sale:

http://www.cambridge.org/gb/knowledge/isbn/item5601178/?site_locale=en_GB



Understanding sea-level rise and variability

ISBN: 978-1-4443-3451-7

Published in 2010 by Wiley-Blackwell

Edited by John A. Church, Philip L. Woodworth, Thorkild Aarup, W. Stanley Wilson

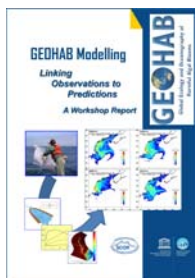
428p. (ENG)

Incl. bibl.

Sea-level rise is one of the most obvious manifestations of anthropogenic climate change, and it directly threatens coasts as a result of increased erosion, more frequent storm-surge flooding and loss of habitat. However, the wide range of uncertainty in projections of global and regional sea-level rise presented by the Intergovernmental Panel on Climate Change is a significant hindrance in agreeing to appropriate mitigation levels and in planning adaptation measures. This book identifies the major impacts of sea-level rise, presents up-to-date assessments of past sea-level change, thoroughly explores all of the factors contributing to sea-level rise, and explores how sea-level extreme events might change. The book is for everyone interested in sea-level rise and its impacts, including policy makers, research funders, scientists, students, coastal managers and engineers.

For sale:

<http://eu.wiley.com/WileyCDA/WileyTitle/productCd-1444334514.html>



GEOHAB 2011. GEOHAB Modelling: A Workshop Report.

ISSN: 1538 182X

Published in 2011 by IOC and SCOR, Paris and Newark

Editors: D.J.McGillicuddy, Jr., P.M. Glibert, E. Berdalet, C. Edwards, P. Franks, and O. Ross

85p.(ENG)

Incl. bibl.

GEOHAB is an international programme to coordinate and build upon related national, regional, and international efforts in HAB research. This report describes the approaches, needs and ongoing challenges required to incorporate modelling into all phases of GEOHAB Core Research.

To download the report: http://www.ioc-unesco.org/hab/index.php?option=com_oe&task=viewDocumentRecord&docID=6659



Proceedings of the GESAMP International Workshop on micro-plastic particles as a vector in transporting persistent, bio-accumulating and toxic substances in the oceans, 28-30th June 2010, UNESCO-IOC, Paris

ISBN: 978-92-801-4236-5
Published in 2010 by UNESCO
38p. (ENG)
Incl.bibl.

<http://unesdoc.unesco.org/images/0019/001922/192205e.pdf> (.pdf)



Where the first wave arrives in minutes: Indonesian lessons on surviving tsunami near their sources

ISBN: 978-979-19957-9-5
Published in 2010 by UNESCO Jakarta
Eko Yulianto et al; Editor: Brian F. Atwater, Ardito Kodijat
36p., (ENG)

This booklet draws public-safety lessons from recent Indonesian experience with fast-arriving tsunamis. Initially prepared for Indonesian readers, it is adapted here for international use.

<http://unesdoc.unesco.org/images/0018/001898/189842e.pdf> (.pdf)



Intergovernmental Oceanographic Commission of UNESCO: Annual Report 2009

IOC Annual Reports Series No. 16
Published in 2010 by UNESCO
Edited by Thomas Gross
58p., illus. (ENG, FRE)

This report summarizes IOC events during 2009 and provides an overview of what has been achieved during 2009 with regards to capacity development, ocean observations and services in the tsunami unit, oceans sciences as well as which regional activities have taken place.

<http://unesdoc.unesco.org/images/0018/001881/188136e.pdf> (.pdf)



**Intergovernmental Oceanographic Commission of UNESCO:
Annual Report 2010**

IOC Annual Reports Series No. 17
Published in 2010 by UNESCO
Edited by Thomas Gross
58p., illus. (ENG, FRE)

2010 found IOC celebrating its 50th year of existence and “thinking beyond itself” to better fulfil its mandate. This annual report presents results in improving governance and fostering intergovernmental cooperation to manage and protect oceans and coastal zones.

<http://unesdoc.unesco.org/images/0019/001930/193021e.pdf> (.pdf)

Policy Briefs



The Global Ocean Observing System - A Summary for Policy Makers

Published in 2009 by UNESCO IOC
15p. (ENG, FRE, SPA, RUS, CHI, ARA)

Topics covered: oceanographic research, scientific programmes

<http://unesdoc.unesco.org/images/0018/001856/185696e.pdf> (.pdf)



Ocean Fertilization. A scientific summary for policy makers

Published in 2010 by UNESCO IOC
Authors: DWR Wallace, CS Law, PW Boyd, Y Collos, P Croot, K Denman, PJ Lam, U Riebesell, S Takeda, & P Williamson
17p., illus. (ENG)
Incl. bibl.

Topics covered: global warming, carbon dioxide, plankton, iron, oceans

<http://unesdoc.unesco.org/images/0019/001906/190674e.pdf> (.pdf)



Sea-level Rise and Variability - A Summary for Policy Makers

Published in 2010 by UNESCO IOC

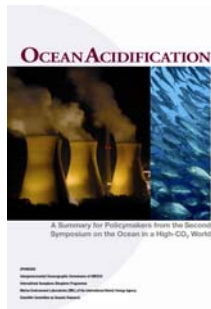
Edited by T. Aarup, J.A. Church, W.S. Wilson and P.L. Woodworth

12p., illus. (ENG, SPA, FRE)

Incl. bibl.

Topics covered: sea-level, monitoring, oceanographic measurement, oceanographic research, forecasting

<http://unesdoc.unesco.org/images/0018/001893/189369e.pdf> (.pdf)



Ocean Acidification - A Summary for Policymakers from the Second Symposium on the Ocean in a High-CO2 World

Published in 2009 by UNESCO IOC

Edited by Maria Hood, Wendy Broadgate, Ed Urban and Owen Gaffney

8p., illus. (ENG)

This document summarizes new research findings presented at the second symposium on the Ocean in a High-CO2 World, that was held on 6-9 October 2008.

<http://www.ocean-acidification.net/OAdocs/SPM-lorezv2.pdf> (.pdf)



Why monitor the Arctic Ocean? Services to society from a sustained ocean observing system

Published in 2010 by UNESCO IOC

Corporate author: IOC

16p. (ENG, FRE, RUS, KAL)

Incl. bibl.

<http://unesdoc.unesco.org/images/0018/001898/189843e.pdf> (.pdf)



The International Thermodynamic Equation of Seawater – 2010: A Summary for Policy Makers

Published in 2011 by UNESCO IOC

Corporate Author: IOC, SCOR and IAPSO

11p., illus. (ENG)

Incl. bibl.

A scientific summary of the TEOS-2010 Manuel published by IOC in 2010 and which describes how the thermodynamic properties of seawater, ice and moist air are used in order to accurately represent the transport of heat in the ocean and the exchange of heat with the atmosphere and with ice.

<http://unesdoc.unesco.org/images/0019/001930/193020e.pdf>

Newsletter



Harmful Algae News, No. 43

An IOC newsletter on toxic algae and algal blooms

Published in 2011 by UNESCO IOC

Compiled and edited by Tim Wyatt

24p., illus. (ENG)

Incl. bibl.

This journal provides a forum to promote knowledge of harmful micro- and macroalgae, including cyanobacteria, as well as monitoring, management and control of these organisms. Both original research and review papers will be considered.

<http://unesdoc.unesco.org/images/0019/001914/191429e.pdf> (.pdf)

Ecological and Earth Sciences

Publications



World Network of Biosphere Reserves 2010: Sites for Sustainable Development

ISBN: 978-92-9089-166-6 (eng)

ISBN: 978-92-9089-168-0 (fre)

ISBN: 978-92-9089-167-3 (spa)

Published in 2011

597p., illus. (ENG, FRE, SPA)

UNESCO MAB and Government of Spain

A compendium of information sheets on the 563 biosphere reserves in 110 countries (up to 2010).



Madrid Action Plan for Biosphere Reserves (2008-2013)

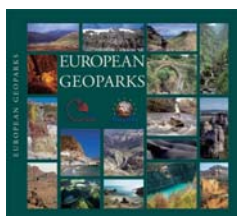
Document code: SC.2010/WS/22

Published in 2010 by UNESCO

33p., illus. (ENG, FRE, CHI, ARA, SPA, RUS, POR)

This Madrid Action Plan was agreed at the 3rd World Congress of Biosphere Reserves which was held in Madrid in February 2008. It builds on the Seville Strategy and aims to capitalize on the strategic advantages of the Seville instruments and raise biosphere reserves to be the principal internationally-designated areas dedicated to sustainable development in the 21st century.

<http://unesdoc.unesco.org/images/0016/001633/163301e.pdf> (.pdf)



European Geoparks: Earth Heritage Protection and Sustainable Local Development

ISBN: 978-960-7646-91-0

Published in 2009 by the Natural History Museum of the Lesvos Petrified Forest on behalf of the European Geoparks Network

163p., illus. (ENG)

Incl. bibl. (Foreword by Koïchiro Matsuura, Director General of UNESCO, Preface by Walter Erdelen, Assistant Director-General of the Natural Sciences Sector of UNESCO)

Established in 2000, the European Geoparks Network (EGN) aims to protect geodiversity, to promote geological heritage to the general public, as well as to support sustainable economic development of geopark territories, primarily through the development of geological tourism. The network has drawn together territories from across Europe that share these aims and now work together in an active and dynamic way in order to achieve them.

For more information and orders: www.petrifiedforest.gr



El Chaco sin bosques: la Pampa o el desierto del futuro

ISBN: 978-987-9260-73-9

Published in 2009 by UNESCO

Edited by Jorge H. Morello y Andrea F. Rodríguez

432p. (SPA)

In the recent accelerated clearance and clearance of land for grain and meat production, we are withdrawing assets and minimizing or negating their ecological services without being identified, recognized and properly assessing the variety of forest ecosystems that are dissected, fragmented and their stunted patches, redesigned or eliminated by the agroproductive expansion.

<http://www.unesco.org.uy/mab/fileadmin/ciencias%20naturales/mab/ElChaco.pdf> (.pdf)
(in Spanish)



Reservas de la Biosfera - Su contribucion a la provision de servicios de los ecosistemas - Experiencias exitosas en Iberoamerica

ISBN: 978-956-332-417-4

Published in 2010 by UNESCO

Edited by Pedro Araya Rosas and Miguel Clüsener-Godt

228p., (SPA)

The biosphere reserves have been established to answer one of the most essential questions in current debates: how to reconcile the preservation of biological biodiversity and of biological resources in a sustainable manner? The efficiency of a biosphere reserve requires from the specialists in natural and social sciences, the concerned groups in conservation and development, the administrative authorities and local communities to work together on this complex issue.

<http://www.unesco.org.uy/mab/fileadmin/ciencias%20naturales/mab/Conaf.pdf> (.pdf) (in Spanish)

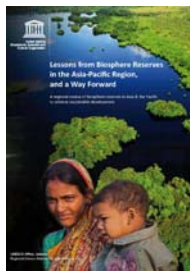


Lineamientos para la gestión nacional de especies exóticas invasoras

ISBN: 978-92-9089-162-8
Published in 2010 by UNESCO
141p. (SPA)
Incl. bibl.

‘Invasive Alien Species (IAS) are recognized as one of the main threats to the environment and economy of the planet, causing damage to biodiversity and natural systems, both pristine and modified by humans, show their impact on health, health and vitality of ecosystems. [...] The aim of this paper is to analyze the main aspects related to the IAS, the technical, legal and institutional frameworks to define a national strategy for managing and handling these species and propose basic guidelines to guide decision making in various areas of national life.’

<http://unesdoc.unesco.org/images/0019/001906/190691s.pdf> (.pdf) (in Spanish)



Lessons from Biosphere reserves in the Asia-Pacific Region, and a Way Forward - A regional review of biosphere reserves in Asia & the Pacific to achieve sustainable development

Document code: UHJAK/2010/PI/H/4
Published in 2010 by UNESCO
79p., (ENG)

This report provides the results of a quantitative and qualitative review of the biosphere reserves in Asia and the Pacific through the UNESCO Man and Biosphere (MAB) Programme.

<http://unesdoc.unesco.org/images/0018/001883/188345e.pdf> (.pdf)



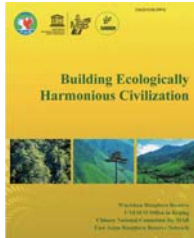
A sub-regional workshop "Biosphere reserve concept in the framework of national legislations: challenges, best practices and steps forward of cluster countries of the UNESCO Moscow Office, the Baltic States and Ukraine"

Published in 2011 by UNESCO
12p., (ENG)

The sub-regional workshop "Biosphere reserve concept in the framework of national legislations: challenges, best practices and steps forward of cluster countries of the UNESCO Moscow Office, the Baltic States and Ukraine" was held in Smolensk Lakeland biosphere reserve on 24-26 September, 2010. The final report briefly describes the UNESCO MAB programme and its interventions to support legal recognition of

biosphere reserves in national legislations, gives summary of participants' presentations and includes their final recommendations.

<http://unesdoc.unesco.org/images/0019/001904/190418E.pdf> (.pdf)



Building Ecologically Harmonious Civilization

Published in 2010 by UNESCO Office in Beijing

74p., illus. (ENG, CHI)

This article aims to share the experiences and lessons learned from Mt. Wuyi BR in preserving nature while promoting the development of the economy and maintaining harmony. The content of the report has been divided into five parts. It starts with general background information on Wuyishan Biosphere Reserve, and continues with the challenges faced in dealing with contradictions between protection and development within the local community. Furthermore, it describes the joint protection measures, unveils detailed information on various methods for joint protection such as setting up objectives, establishing proper organization, engaging local communities and identifying opportunities and constraints. In addition, this report provides in-depth views of the role of science and technology in solving the contradiction between conservation and development. Finally, it summarizes the achievements and challenges that Wuyishan BR has been facing during its journey to building a well preserved and well developed Biosphere Demonstration site demonstrating a harmonious area of ecological protection.

<http://unesdoc.unesco.org/images/0018/001880/188020m.pdf> (.pdf)



Mudanças climáticas e mudanças socioambientais globais

ISBN: 978-85-7652-083-2

Published in 2011 by UNESCO Brasil

Authors: Tassara, Eda Terezinha de Oliveiran and Rutkowski, Emília Wanda

184p. (POR)

This is a compilation of contributions from some of the researchers who participated in the discussions during the Symposium in 2007 and to which others were added. The are specialized readings of different dimensions involved in the phenomenon of climate change considering their interrelationships with social and environmental global changes.

<http://unesdoc.unesco.org/images/0019/001918/191897POR.pdf> (.pdf) (in Portuguese)



Fazendo as pazes com a Terra: qual o futuro da espécie humana e do planeta?

ISBN: 978-85-3493-194-6, 978-85-7652-107-5

Published in 2010 by UNESCO

214p., illus. (POR)

We now know that the human species, the planet and civilization may very well be immortal. Our ‘business-as-usual’ approach to environmental issues and lack of political will threatens to ruin us. Without immediate action to combat global warming, we face losing 5 to 20 per cent of the world’s Gross Domestic Product (GDP). Our very biosphere is in jeopardy: increased desertification, deforestation, air and soil pollution, dwindling biodiversity, water crises and the degradation of the oceans. A novel approach to our economy is needed, one that fosters less material forms of production, reduces superfluous consumption and wastes less raw material. We have to create and implement new styles of development that, without halting growth, spare the planet and preserve biodiversity. It is high time, as this volume proposes, for humanity to make a new pact, a ‘natural contract’, of co-development with the planet. UNESCO is actively involved in this forward-looking debate, as reflected in its 21st Century Talks series, which open a forum for discussion on key issues of the future. An ethic of the future must prevail if we are to make peace with the Earth.

For sale:

<http://publishing.unesco.org/default.aspx>



Dia mundial da ciência pela paz e pelo desenvolvimento, 10 de novembro: biodiversidade, trabalhos e desenhos premiados 2010

Document code: BR/2010/PI/H/23

Published in 2010 by UNESCO

206p. illus., (POR)

Incl. bibl.

This book brings a chapter written by the biologist Maria Carolina Hazin, master in ecology and specialist of the Natural Sciences Sector of UNESCO in Brazil, which features clearly and succinctly the focus on the importance of preserving biodiversity for life in general. This publication also contains the ten winners of the best artistic and written works by secondary school students under the supervision of their teachers. UNESCO and partners invite teachers, students, scientists, governmental representatives and private sector leaders to discuss how meaningful it is to preserve the balance of species to our own life and to the existence of the planet.

<http://unesdoc.unesco.org/images/0018/001899/189920POR.pdf> (.pdf) (in Portuguese)

Atlases

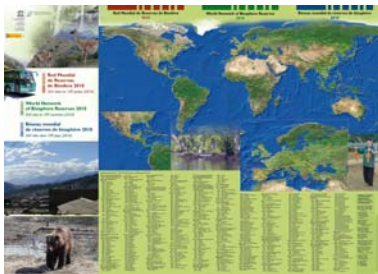


From Space to Place. An Image Atlas of World Heritage Sites on the “In Danger” List

Published in 2011 by UNESCO in cooperation with USGS
ISBN: 978-92-3-104227-0
92 p. (ENG)

The purpose of the Atlas is to emphasize the various applications that satellite images can provide to natural and cultural heritage conservation and documentation. It presents detailed satellite images of the 31 sites on the List of World Heritage in Danger (as per 2009). Textual, photographic and satellite image information is provided for each site depicted in the Atlas. The details of a site’s inscription onto the World Heritage List are given as well as a brief description of the cultural or natural values for which the site was inscribed. The threats to the site are then described, from pillaging to natural disasters, pollution, mass tourism and armed conflict. Explanations are also provided on what is discernable on satellite imagery. This is the first time that a Satellite Image Atlas illustrating the use of space technologies for World Heritage sites is published.

<http://unesdoc.unesco.org/images/0021/002143/214371E.pdf>

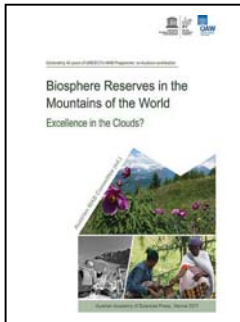


World Network of Biosphere Reserves 2010 Map

Published in 2010 by UNESCO

The World Network of Biosphere Reserves of the MAB Programme consists of a dynamic and interactive network of sites demonstrating different models of sustainable development. It fosters the harmonious integration of people and nature for sustainable development through participatory dialogue; knowledge sharing; poverty reduction poverty reduction and improvement to human well-being; respect for cultural values and society’s ability to cope with change - thus contributing to the Millennium Development Goals. Accordignly, the WNBR is one of the main international tools to develop and implement sustainable development approaches in a wide array of contexts.

http://www.unesco.org/new/fileadmin/MULTIMEDIA/HQ/SC/pdf/MAB_RB_2010_WEB.pdf (.pdf)



**Biosphere Reserves in the Mountains of the World:
excellence in the clouds**

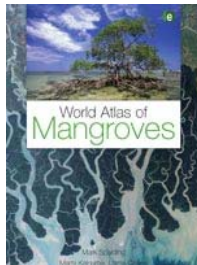
Published in 2011 by UNESCO MAB and the Austrian
Academy of Sciences

Authors: Austrian MAB National Committee. Preface by
Thomas Schaaf

ISBN: 978-3-7001-6968-0

122p., illus.

[http://www.unesco.org/new/fileadmin/MULTIMEDIA/HQ/SC/pdf/OAW_BR_Mountain
s_Exc_ellence_in_the_Clouds_2011.pdf](http://www.unesco.org/new/fileadmin/MULTIMEDIA/HQ/SC/pdf/OAW_BR_Mountains_Exc_ellence_in_the_Clouds_2011.pdf)



World Atlas of Mangroves

ISBN: 978-1-84407-657-4

Published in 2010 by Earthscan

Authors: Mark Spalding, Mami Kainuma and Lorna Collins

336p., illus. (ENG, FRE, SPA)

Incl. bibl.

This atlas provides the first truly global assessment of the state of world's mangroves. Written by a leading expert on mangroves, with support from the top international researchers and conservation organizations, this full colour atlas contains over 60 full-page maps, hundreds of photographs and illustrations and a comprehensive country-by-country assessment of mangroves.

For sale: <http://www.earthscan.co.uk/?tabid=34104> (.pdf)



Map on biosphere reserves of the Volga basin

Published in 2010 by UNESCO

(RUS)

The map depicts features of relief and sizes of all the allocated zones of each of 11 biosphere reserves, situated in the Volga River basin. Also, other strictly protected nature territories (state reserves and national parks) are shown. Thus, it provides more information for the better planning of the establishment of new biosphere reserves in the region. The map includes photos, which represent fauna and flora of the Volga basin. In addition, it presents the table, which shows dates of biosphere reserve establishment and areas of their zones. Information on the reverse side of the map describes UNESCO MAB programme and gives examples of multidisciplinary activities of biosphere reserves of the Volga River basin and in accompanied by colourful illustrations.

<http://unesdoc.unesco.org/images/0019/001903/190349R.pdf> (.pdf) (in Russian)

Policy briefs

UNESCO-SCOPE-UNEP Policy Briefs

ISSN 1998-0477

Published in 2010 - 2011

UNESCO and SCOPE undertook to develop a series of policy briefs that focuses on emerging and critical environmental issues. Each brief builds on the contributions of international experts at multidisciplinary workshops to review current knowledge, highlight trends and controversies, and open perspectives for policy planners, decision makers and stakeholders in the community.



Policy Brief No. 14 – Engineering the Climate

<http://unesdoc.unesco.org/images/0021/002144/214496e.pdf>



Policy Brief No. 13 – Third Pole Environment

http://www.unesco.org/new/fileadmin/MULTIMEDIA/HQ/SC/pdf/sc_env_Third_Pole_EN.pdf



Policy Brief No. 12 - Global environmental change and food security

<http://unesdoc.unesco.org/images/0018/001897/189745e.pdf>



Policy Brief No. 11 - Biodiversity, health and well-being – critical links

<http://unesdoc.unesco.org/images/0018/001897/189744e.pdf>

Educational Material



A Teaching Resource Kit for Mountain Countries: a creative approach to environmental education

ISBN: 978-92-3-1041-59-4

Published in 2011 by UNESCO

Author: Thomas Schaaf

213p. illus. (ENG, FRE)

The kit was produced by the UNESCO Division of Ecological and Earth Sciences and its Man and the Biosphere Programme (MAB). It includes a manual for teachers and an activity book to be completed by pupils, using an engaging approach so that 10 to 15 year-olds living in mountainous areas can learn about their environment and its specific issues, such as soil erosion. Its contents have been designed as part of the activities for the United Nations Decade of Education for Sustainable Development (2005-2014). The kit is available in English and French and is being distributed by the UNESCO Associated Schools Network (ASPnet), which comprises nearly 9,000 schools in 180 countries. It follows a similar resource kit on drylands that was published in four languages in 2008 by the MAB Programme and distributed worldwide.

<http://unesdoc.unesco.org/images/0019/001918/191873e.pdf> (.pdf) (in English)

<http://unesdoc.unesco.org/images/0019/001918/191881f.pdf> (.pdf) (in French)

Magazine



Sangsaeng - Living together helping each other

ISSN: 1599-4880

Published in 2010 by

Number 28, september 2010

(ENG)

This magazine is called Sang Saeng (Living Together Helping Each Other), published by the UNESCO Asia-Pacific Centre of Education for International Understanding, and aims to be a forum for constructive discussion of issues, methods and experiences in the area of Education for International Understanding.

http://www.unesco.or.id/publication/SangSaeng_No_28_20100917.pdf (.pdf)