

# NETWORK NEWSLETTER



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## EDITORIAL

### *Rethinking the IPCC: Is It Time?*

The Intergovernmental Panel on Climate Change (IPCC) was jointly established in the late 1980s by the World Meteorological Organization (WMO) and the UN Environment Programme (UNEP). It was a timely process. Information and concern was mounting about the human potential for contributing to the naturally occurring greenhouse effect. Governments convened meetings to discuss possible approaches to prevent, mitigate, or adapt to the consequences of global warming.

The goal of the IPCC was to assess the state of the science of the climate system as it relates to the increase of carbon dioxide and other greenhouse gases in the atmosphere. A few thousand scientists from around the globe were brought together to focus on the science of greenhouse gas buildup, the impacts of climate variability and climate change, and the policy aspects of global warming. Each topic was attacked by a working group: science, impacts, and policy.

The IPCC assessment reports have been published five years apart, based on the research and review efforts of the scientists, beginning in 1990. To date there have been three major assessments. Lots of new information was included in the 2001 report, when compared to the first. There has been progress on most fronts, and the number of scientists who support the IPCC findings appears to have grown sharply, while those who oppose the idea that the climate is changing as a result of human activities has stayed about the same, with a few vocal spokespersons.

I believe there is value in the undertaking of assessments of the state of our knowledge about the global climate system and about human activities that might affect or be affected by global climate change. Clearly, there are many positive aspects of the IPCC

process and its outputs, such as the entrainment of future researchers and capacity building with regard to climate change issues in developing countries.

My primary concern centers on the frequency at which IPCC assessments have been undertaken. Several of my colleagues who have participated in the preparation of IPCC reports have voiced their reluctance to participate in yet another assessment so soon after the issuance of a report. Are scientists being burned out by the numerous meetings and writing assignments? The question people seem to be reluctant to ask is this: is it time to rethink the frequency of the IPCC reports?

Obviously, new and useful scientific research findings do not occur automatically every five years. While these reports are issued every five years, the research going into them is drawn from work done on a shorter time frame. For example, the most recent report was issued in 2001, and senior researchers are already being contacted about serving as lead authors for the next IPCC review in 2005. When does the scientific research that goes toward the next assessment get done?

I am concerned that there is hidden pressure to provide scientific advances in various areas of these reports, when in fact only minor advances may have been made. Is it time to review the IPCC process of the 1990s? Is, for example, the five-year timetable appropriate? Are the numerous consensus-building meetings necessary? Is the institutionalization of the Secretariat an appropriate mechanism, now that the global warming issue has been placed on the agenda for most countries? And what is UNEP's role, given that its Atmosphere Unit has been decimated?

Reviewing past experience, perhaps it would be better to have eight-year intervals between IPCC assessments, allowing a year and a half to digest the previous report, five years for research, and a year and a half for preparation of the new assessment.

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I want to say that I believe that, scientific uncertainties notwithstanding, human activities can alter local to global climate conditions. Discussing the IPCC process or raising the possibility of a review could open up the proverbial Pandora's Box. I do not want to see it weakened by the "naysayers" (those who do not believe that human activities can influence global climate). On the contrary, I want to see a more effective IPCC, one that enables researchers more time to do the research.

–Michael H. Glantz

### LET'S HEAR FROM YOU!!

This newsletter depends on YOUR input. Please send relevant information that comes across your desk, whether it is a news item, meeting, job opening, or publication, to the address on the back cover. Information to be included in the next newsletter must be received by **30 November 2001**. If you prefer to receive the newsletter on line, please let us know at [www.esig.ucar.edu/newshp](http://www.esig.ucar.edu/newshp) and you will be reminded when a new issue is released. Thanks for your input!

**Editor's Note:** The *Network Newsletter* has been published for the past 17 years by the Environmental and Societal Impacts Group as a result of ESIG's Networkshop. When we began, the climate impacts research community was in a formative stage. Now, the advent of the Internet has opened up the world of information resources to all. We would like to hear from you about whether the *Network Newsletter* still serves a useful purpose in your activities. Please let us know by writing to us at the address on the back cover, or email [jan@ucar.edu](mailto:jan@ucar.edu) as we consider the newsletter's usefulness in the future.

### CLIMATE IN 2000

The year 2000 was the 22nd consecutive year with a global mean surface temperature above the 1961–90 normal, and was the seventh warmest year in the past 140 years, despite the persistent cooling influence of the prolonged La Niña event. Most of the non-tropical Northern Hemisphere experienced above-average temperatures throughout much the year, except during the September–November period, when much of Asia

and the west-central parts of North America were colder than normal. The remainder of the tropics and the Southern Hemisphere had a variety of anomalies, with a predominance of warmth (from *World Climate News*, [www.wmo.ch](http://www.wmo.ch)).



### GLOBAL WARMING: EARLY WARNING SIGNS

An innovative map, available on the Web and also in hard copy, illustrates the local consequences of global warming and categorizes events into "fingerprints" and "harbingers." Each of the organizations involved in producing this map provides useful resources for further understanding the "fingerprint" and "harbinger" events taking place around the world. These organizations include the World Resources Institute, the Union of Concerned Scientists, and the Environmental Defense Fund. To see the website, go to [www.climatehotmap.org](http://www.climatehotmap.org) or email [lauralee@wri.org](mailto:lauralee@wri.org) or [climateinfo@ucsusa.org](mailto:climateinfo@ucsusa.org). Order the hard-copy map for US\$5 from the Environmental Defense Fund, Publications/Climate Map, 1875 Connecticut Ave. NW, Washington, DC 20009 USA; tel: 1-800-684-3322.

### CLIMAG UPDATE

Climate Prediction and Agriculture (CLIMAG) was initiated by START (SysTEM for Analysis, Research and Training). CLIMAG seeks to apply new knowledge of seasonal climate forecasts to agricultural systems in developing regions, where the enhancement of production and food security are urgent. START coordinated the development of the project, including review of state-of-the-science that could contribute to CLIMAG during the next few years. Last year a demonstration project in South Asia was carried out with funding from the Asia-Pacific Network and START. This project has demonstrated how cropping systems management can be beneficially altered by adapting to the underlying climatic variability. The CLIMAG South Asia team is now developing a multi-year program that will refine and deliver a general methodology for reducing vulnerability in agricultural systems operating under climatic risk. For more information, see the Web site at [www.start.org/Projects/Climag/SAupdate.html](http://www.start.org/Projects/Climag/SAupdate.html) or contact the International START Secretariat, Suite 200, 2000 Florida Ave. NW, Washington, DC 20009 USA; Tel: 1-202-462-2213; fax: 1-202-457-5859; email: [start@agu.org](mailto:start@agu.org)

## IUCN'S PRESIDENT WINS ZAYED PRIZE

Yolanda Kakabadse Navarro, The World Conservation Union (IUCN) President, was awarded the Zayed Prize in April 2001. This prize represents a highly valued environmental award and is intended for outstanding organizations or personalities whose merit and qualifications for the award are recognized by the global environmental community. Kakabadse was chosen for her leading role in the preparation of the Agenda 21 chapter on NGOs in preparation for the Rio conference (Earth Summit) of 1992. For more information, please contact Wendy Goldstein, Head of Communications, IUCN, Rue Mauverney 28, 1196 Gland, Switzerland; Tel: 41-22-999-0282; email [wendy.goldstein@iucn.org](mailto:wendy.goldstein@iucn.org) or see the Web site at [www.iucn.org](http://www.iucn.org)

## GLOBAL EARTHQUAKE SAFETY INITIATIVE

The usefulness of a worldwide urban earthquake disaster index was recently illustrated by the RADIUS (Risk Assessment Tools for the Diagnosis of Urban Areas against Seismic Disasters) Initiative of the UN International Strategy for Disaster Reduction. The conclusions of the project indicated that a comparative index would be a successful way to assess risk, raise disaster awareness, and promote a worldwide network of earthquake professionals. The Global Earthquake Safety Initiative (GESI) was developed in order to offer cities an access to necessary information to address urban earthquake safety. The website for the project is hosted by GeoHazards International. For more information, please go to [www.geohaz.org/project/gesi/GesIntro.htm](http://www.geohaz.org/project/gesi/GesIntro.htm) or email [info@geohaz.org](mailto:info@geohaz.org) or write to GeoHazards International, 200 Town & Country Village, Palo Alto, CA 94301 USA; tel: 1-650-614-9050; fax: 1-650-614-9051.



## COMPROMISE AGREEMENT ON CASPIAN SEA CAVIAR

In June 2001, three caviar-exporting states agreed to halt sturgeon fishing in the Caspian Sea for the remainder of the year and have committed to a series of urgent measures aimed at addressing alarm over

plummeting sturgeon stocks. TRAFFIC, the wildlife trade monitoring program of the World Wildlife Fund and the IUCN World Conservation Union, stressed that progress must be made within the next six months if these countries wish to avoid an international ban on caviar exports in 2002. The agreement was announced at the end of a CITES (Convention on International Trade in Endangered Species) meeting in Paris. Four Caspian Sea states – Russia, Azerbaijan, Kazakhstan, and Turkmenistan – face the prospect of a full suspension of caviar exports unless sufficient progress is made by the end of the year. For more information, contact Sabri Zain at TRAFFIC International, Cambridge, UK; tel: 44-1223-277427; email [sabri.zain@trafficint.org](mailto:sabri.zain@trafficint.org) or see the website at [www.traffic.org](http://www.traffic.org)

## UPDATE ON JOHANNESBURG 2002

The World Summit on Sustainable Development (WSSD), to be held in Johannesburg in September 2002, has set dates for the 2001 Asian sub-regional and regional preparatory committee meetings (Prepcoms): South Pacific, 5–7 September in Apia, Samoa; Central Asia, 19–20 September in Almaty, Kazakhstan; South Asia, 27–29 September in Colombo, Sri Lanka; Southeast Asia, 17–19 October in Manila, Philippines; and Regional, 27–29 November in Phnom Penh, Cambodia. The registration form for stakeholder participation in the sub-regional meetings in Central Asia, South Asia and Southeast Asia is now available on the website at [www.rrcap.unep.org/wssd/NGOparticipation.cfm](http://www.rrcap.unep.org/wssd/NGOparticipation.cfm). If an organization wishes to participate in the Summit or its Prepcoms, it must first be accredited. The United Nations considers all major group organizations as NGOs and accredits them as such even though they may represent major groups such as women's organizations, youth groups, scientific bodies, farmers organizations, and so forth. NGOs not currently on the list may apply for accreditation at [www.johannesburgsummit.org/web\\_pages/participation/summit\\_registration\\_and\\_accreditation.htm](http://www.johannesburgsummit.org/web_pages/participation/summit_registration_and_accreditation.htm). For more information, contact Zehra Aydin-Sipos, Johannesburg Summit Secretariat at [aydin@un.org](mailto:aydin@un.org) or 2002participation@un.org, or write to Johannesburg Summit Secretariat, 2 UN Plaza, 22nd Floor, New York, NY 10017.

## LEARNING TO MANAGE GLOBAL ENVIRONMENTAL RISKS

In June 2001, the MIT Press released the two-volume book, *Learning to Manage Global Environmental Risks*. The book examines how the interplay of ideas and

actions applied to environmental problems has laid the foundation for global environmental management. The book focuses on efforts to deal with climate change, ozone depletion, and acid rain from 1957 (the International Geophysical Year) through 1992 (the UN Conference on Environment and Development). Volume 1 provides an overview of the project, of global environmental management in general, and the 3 central environmental issues studied. Volume 2 contains the management function studies and the book's conclusion. Edited by William C. Clark and colleagues of the Social Learning Group, which comprises 37 scholars from 10 nations, these two volumes can be ordered from the MIT Press at [mitpress.mit.edu/0262194449](http://mitpress.mit.edu/0262194449) or contact Jud Wolfskill, Associate Publicist, MIT Press, 5 Cambridge Center, 4th Floor, Cambridge, MA 02142 USA; Tel: 1-617-253-2079; Fax 1-617-253-1709; email [wolfskil@mit.edu](mailto:wolfskil@mit.edu)

### **CHINA: RENEWABLE ENERGY SCALE-UP PROGRAM (CRESP)**

CRESP is a partnership between the Global Environmental Facility (GEF) and China to highlight the production and use of renewable energy. For the first time, China is formally addressing greenhouse gas emissions and climate change through a new energy plan that includes projects such as CRESP. The program is expected to reduce barriers to the introduction of cost-effective renewable energy sources in China, as well as reduce the cost and improve the performance of hydro, wind, and selected biomass technologies. It also aims to increase market penetration of renewable energy and consequently reduce greenhouse gas emissions from power generation. CRESP is part of a broader China initiative on renewable energy and responds to China's energy sector and environmental objectives as outlined in its tenth Five-Year Plan. This is the first of China's Five-Year Plans to address greenhouse gas emissions and climate change. For more information, please contact Hutton Archer, GEF, 1818 H St. NW, Suite G6-150, Washington, DC 20433 USA; tel: 1-202-458-7117; fax: 1-202-522-3240; email [harcher@worldbank.org](mailto:harcher@worldbank.org); Web [www.gefweb.org](http://www.gefweb.org)

### **GLOBAL ENVIRONMENTAL CHANGE AND FOOD SYSTEMS (GECAFS)**

The World Climate Research Program (WCRP) has joined forces with the International Geosphere-Biosphere Program (IGBP) and the International Human Dimensions Program (IHDP) to develop a new joint project, GECAFS. GECAFS was formally launched by

the Chairs and Directors of the three sponsoring programs on 15 July. Research implementation will begin in 2002. GECAFS aims to respond to the need to understand the link between global environmental change and societal well-being by promoting effective interventions and an innovative interdisciplinary approach. Three interrelated science themes are of direct interest to the sponsoring programs: (1) *vulnerability and impacts*: effects of global environmental change on food provision; (2) *adaptations*: global environmental change and options for enhancing food provision; and (3) *feedbacks*: environmental and socioeconomic consequences of adapting food systems. GECAFS will undertake studies designed by end users, donors, other stakeholders, and the global environmental change research community. An international Scientific Advisory Committee will determine and prioritize the research agenda. For more information, see the website at [www.gecafs.org](http://www.gecafs.org) or write to John Ingram, GECAFS Executive Officer, NERC Centre for Ecology & Hydrology, Wallingford, OX108BB, UK; tel: 44-1491-692410; fax: 44-1491-692313; email [jsii@ceh.ac.uk](mailto:jsii@ceh.ac.uk)

### **NEPAL: STATE OF THE ENVIRONMENT 2001**

ICIMOD (International Centre for Integrated Mountain Development) is hosting the Executive Summary for *Nepal: State of the Environment 2001*, Nepal's national report, on its website. This is one of a number of country documents prepared under the auspices of UNEP (UN Environment Programme) and includes a general overview of the issues addressed. The key issues are forest depletion, soil degradation, solid waste management, water quality, and air pollution. This report was prepared on the best data available, but there are clear limitations and gaps. The authors, however, have done their best to ensure that an accurate idea of the state of the environment in Nepal is communicated to the reader. Ordering information for the full report is also available on line at the ICIMOD website. See [www.icimod.org](http://www.icimod.org) for more information, or download the Executive Summary on the website at [www.icimod.org/publications/soe2000/ex\\_summ.htm](http://www.icimod.org/publications/soe2000/ex_summ.htm) or contact Sangeeta Pandey, ICIMOD, Jawalakhel, Kathmandu, Nepal; email [sangeeta@icimod.org.np](mailto:sangeeta@icimod.org.np)

UNEP/ICIMOD, 2001: *Nepal: State of the Environment 2001*. Bangkok: UNEP/Kathmandu: ICIMOD. 211pp.

## **METHYL BROMIDE PHASEOUT WEB TOOL**

To enable developing countries to efficiently phase out an extremely toxic and ozone-depleting pesticide, methyl bromide, 58 projects in 36 countries have been financed by the Multilateral Fund of the Montreal Protocol. MAP (Methyl bromide Alternatives Project) to a Healthy Harvest is a new collaborative website between UNEP and the UN Industrial Development Organization (UNIDO), which has been set up to communicate the results of demonstration projects. Launched on World Environment Day (June 5), the website is the first to provide information on the experiences and results of such projects and can be used as a tool in efforts to adopt more environmentally sustainable agricultural practices. See the website at [www.uneptie.org/ozonaction/unido-harvest](http://www.uneptie.org/ozonaction/unido-harvest) or for more information contact Seniz Yalcindag, UNIDO, Vienna International Centre, PO Box 300, A-1400 Vienna, Austria; email [yalcindag@unido.org](mailto:yalcindag@unido.org)

## **PIELKE JR. LAUNCHES NEW CENTER**

Former ESIG scientist Dr. Roger A. Pielke, Jr. has moved to the University of Colorado's CIRES (Cooperative Institute for Research in Environmental Sciences) to create a new center called "Center for Science and Technology Policy Research." His new contact information is: Center for Science and Technology Policy Research, University of Colorado/CIRES, 1333 Grandview Ave., Campus Box 488, Boulder, CO 80309-0488 USA, Tel: 1-303-735-3940; fax: 1-303-735-1576; email [roger.pielke@colorado.edu](mailto:roger.pielke@colorado.edu)

## **GILBERT F. WHITE NATURAL HAZARDS MITIGATION CHAIR**

The University of Colorado and the Natural Hazards Research and Applications Information Center have launched a major fundraising effort to establish an endowed faculty position dedicated to understanding and reducing loss caused by disasters. Named after the Center's founder, the Gilbert F. White Natural Hazards Mitigation Chair will honor White by reflecting his lifelong dedication to furthering knowledge and research regarding ways to alleviate human suffering caused by natural hazards. The Chair will be open to any relevant discipline and will reside at the Natural Hazards Center, which is part of the university's Institute of Behavior Science. The campaign is attempting to endow the Chair

by White's 90th birthday on 26 November 2001. Persons interested in learning more about the Chair or donating toward it should contact Linda Bachrach, CU Foundation, PO Box 1140, Boulder, CO 80306-1140; Tel 1-303-492-5689; email [linda.bachrach@cufund.colorado.edu](mailto:linda.bachrach@cufund.colorado.edu)



Earth Vision, the Tokyo Global Environmental Film Festival, has been held annually in Tokyo as a visual forum to examine our environment through film and photographs. Since its establishment in 1992, the film category has provided a forum for discussion between filmmakers and audiences. In 1998 the photography category was established to provide more chances for people to participate in Earth Vision. A video library is available at the Global Environment Information Centre, operated by the UN University and the Environment Agency in Aoyama, Tokyo. To apply for 2001, please see the website at [www.webfront.ne.jp/~earth-vision](http://www.webfront.ne.jp/~earth-vision) or write to Earth Vision, c/o Global Environmental Forum, Iikura Bldg., 3rd Floor, 1-9-7 Azabudai, Minato-ku, Tokyo 106-0041, Japan; Tel: 81-3-3585-8957; fax: 81-3-3585-8959; email [earth-vision@webfront.ne.jp](mailto:earth-vision@webfront.ne.jp)

## **APFEJ EXPANDING**

The Asia-Pacific Forum of Environmental Journalists (APFEJ) recently decided to expand its boundaries to encompass Central Asia and West Asia. The organization is particularly interested in establishing national chapters in Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan, Afghanistan, Kuwait, Lebanon, Oman, Saudi Arabia, Syria, Yemen, Iran, and UAE. APFEJ is holding its 13th Annual Congress in Manila, The Philippines 22–26 October 2001 and will sponsor one representative from the area. The sponsorship would cover expenses during the Congress period. For more information about the Congress or APFEJ, see the website at [www.oneworld.org/slejf](http://www.oneworld.org/slejf) or contact Dharman Wickremaratne, APFEJ, PO Box 26, 434/3, Sri Jayawardenapura, Sri Lanka; Tel: 94-1-873131; fax: 94-1-883187; email [afej@sri.lanka.net](mailto:afej@sri.lanka.net)

## GREENHOUSE GAS (GHG) REDUCTION PILOT PROGRAM

The World Energy Council has established a GHG Emissions Reduction Pilot Program and has recorded emissions reduction projects around the world in a comprehensive database located at [www.worldenergy.org/ghg](http://www.worldenergy.org/ghg). The database was developed to provide an opportunity for industry around the world to have a central site to demonstrate voluntary emissions reductions at present and in the next few years. The database allows the public, politicians, and industry to see existing opportunity and provides contacts for specific projects. For more information, contact Elena Virkkala Nekhaev, Program Manager, World Energy Council, 5th Floor, Regency House, 1-4 Warwick St., London W1B 5LT UK; Tel: 44-20-7734-5996; Fax: 44-20-7734-5926; email [nekhaev@worldenergy.org](mailto:nekhaev@worldenergy.org)

### IRI NEWS

The International Research Institute for climate prediction (IRI) has appointed Michael McElroy as Chairman of the Board of Directors and Roberto Lenton as Executive Director of the Secretariat for International Affairs and Development. McElroy's research is directed at studies of the wide-ranging effects of human activities on the global environment. Lenton is a water resource specialist with extensive experience in environment and development issues. The IRI was founded in 1996 and is a member of the Columbia Earth Institute. For more information, please contact the IRI, 61 Rt. 9W, PO Box 1000, Palisades, NY 10964-8000; tel: 1-845-680-4468; fax: 1-845-680-4866; email [info@iri.columbia.edu](mailto:info@iri.columbia.edu) or see the website at [iri.ideo.columbia.edu](http://iri.ideo.columbia.edu)

## Job Opportunities and Internships

The National Ice Center (NIC), located in Washington, DC, invites applications for a postdoctoral research position in the newly established Science and Applied Technology Department. The mission of NIC is to provide assessments and predictions of global sea ice conditions. This program is managed through the University Corporation for Atmospheric Research and offers a visiting research appointment, renewed annually for up to three years. Qualified applicants will have a strong background in remote sensing, ice modeling, or ice physics research. The position is available immediately and will remain open until filled. Application screenings begin 15 September 2001. Send application

materials to UCAR Visiting Scientist Programs, PO Box 3000, Boulder, CO 80307-3000 USA. Complete description of position and online application available at [www.vsp.ucar.edu](http://www.vsp.ucar.edu) or call 1-303-497-8649 or email [vsp@ucar.edu](mailto:vsp@ucar.edu). UCAR is an Equal Opportunity/Affirmative Action Employer.

The Journal of International Wildlife Law and Policy is a four year old publication of Kluwer Law International that focuses on legal and policy-based efforts to conserve endangered wildlife species. The journal is currently seeking a new **Documents Editor** who will be responsible for developing the content for the documents section of each issue of the journal, as well as the online documents section. Members of the staff are not compensated for their participation. If you are interested in this position, please contact Wil Burns, Editor-in-Chief, Journal of Wildlife Law & Policy, 1210 Floribunda Ave. #7, Burlingame, CA 94010, USA; tel: 1-605-703-3280; fax: 1-801-838-4710; email: [jiwlp@pacbell.net](mailto:jiwlp@pacbell.net); Web: [www.jiwlp.com](http://www.jiwlp.com)

The Inter-American Institute for Global Change Research (IAI) was established in 1992 and has 18 ratified member countries. The IAI is seeking a **Director of the Institute** who will be elected by a two-thirds majority at the Ninth Meeting of the Conference of the Parties in February or March of 2002. The Director will be responsible for preparing long-range plans and policies, proposing the annual work program and budget, promoting and representing IAI and designing and implementing fund-raising strategies. The Director will manage the Directorate, located in São Paulo, Brazil. Please note that the Director cannot be a Brazilian citizen. Applications of interested candidates should include a cover letter that addresses the qualifications of the position, a current curriculum vitae, and the names/addresses/phones/faxes of three referees. These materials, which will be accepted until October 19, 2001, should be submitted directly to an IAI-ratified country. For additional information, contact Vanessa Richardson at [vrichard@nsf.gov](mailto:vrichard@nsf.gov) or visit the IAI Web site: [ww2.iai.int/director\\_search\\_announce.htm](http://ww2.iai.int/director_search_announce.htm)

Applications are invited for a **Lectureship in the School of Ocean Sciences**. The School has substantial interests in applied marine biology, benthic ecology, dynamical oceanography, geological oceanography and marine biogeochemistry and hence places particular emphasis on interdisciplinary research. Candidates of proven research ability in any aspect of fish biology (e.g., finfish aquaculture, marine fisheries, fish physiology, biochemistry, ethology, genetics, etc.) will be considered. The candidate will be expected to contribute to both undergraduate and M.Sc. teaching in fish biology, fisheries and aquaculture as well as to

supervise research projects on fish. Application forms and further particulars should be obtained by contacting Personnel Services, University of Wales, Bangor, Gwynedd, LL57 2DG, UK; tel: 44-1248 382926/388132; email: pos020@bangor.ac.uk. Please quote reference number 01-1/19 when applying. Closing date for applications: 28 September 2001.

## Past Meetings

A meeting entitled **Early Warning Systems for Drought Preparedness and Drought Management** was held 5–7 September 2000. Some of the following recommendations were made: a drought preparedness and mitigation plan should incorporate an early warning system, an impact assessment and institutional arrangements; a vulnerability profile should be completed; existing observation networks should be improved and new ones should be established; develop institutional capacity for national drought policy and planning. For more information, contact M.V.K. Sivakumar, Agricultural Meteorology Division, World Meteorological Organization, 7 bis, Avenue de la Paix, P.O. Box 2300, 1211 Geneva 2, Switzerland; tel: 41-22-730-8111; fax: 41-22-730- 8181.

The **Third International Conference on Environmental Problems in Coastal Regions** was held 18–20 September 2000 in Las Palmas de Gran Canaria, Spain. Discussions took place on pollution management, hydrodynamic modeling, sediment transport, erosion and drift, water quality and coastal environment problems and management. The conference showed that significant changes had been made since the last meeting to generate ways of predicting and controlling different agents on coastal regions. For a full report on the conference, contact Wit Press, Ashurst Lodge, Ashurst, Southampton, SO40 7AA, U.K.; tel: 44-23-8029-3223; fax: 44-23-8029-2853; email: marketing@witpress.com; Web: [www.wessex.ac.uk/conferences/2000/coastal2000/](http://www.wessex.ac.uk/conferences/2000/coastal2000/)

The **IUCN World Conservation Congress** was held 4–11 October 2000 in Amman, Jordan. With delegates from 143 countries, this was the largest environmental gathering in 2000. The delegates tried to find ways to fight the extinction crisis, as the loss of biological species has dramatically increased in speed and magnitude. The meeting ended with the approval of an ambitious IUCN action plan and program to address the intertwined problems of species loss and ecosystem integrity. Some of the resolutions of the plan include linking climate change to biodiversity, conservation of marine ecosystems and identifying protection measures for

ecosystems and species. For more information, email: [jth@iucn.org](mailto:jth@iucn.org). Web: [www.iucn.org/amman/](http://www.iucn.org/amman/)

The **Symposium on Global Monitoring for Environment and Security (GMES)** was held 16–17 October 2000 in Lille, France. The event was attended by the major players in the European space endeavor. The GMES addressed the need for Europe to have its own operational systems for the observation and analysis of environmental data, both to facilitate an independent political decision-making capability on global matters, and for dealing specifically with European environmental issues. Europe's Weather Satellite Organization (EUMETSAT) reiterated at the meeting that its Satellite Application Facilities on Climate, Oceans and Sea Ice and Ozone were targeted to develop products in the wider environmental field. For more information, contact CNES- Délégation à la Communication et à l'Education, Département Expositions-Colloques, 18 avenue Edouard Belin, 31401 Toulouse cedex 4, France; tel: 33-5-61-27-40- 68. Web: [www.cnes.fr/espace\\_pro/colloques/GMES/ accueil.html](http://www.cnes.fr/espace_pro/colloques/GMES/accueil.html)

The Steering Committee on **World Climate Programme – Water** held its first meeting 23–25 October 2000 in Geneva, Switzerland. During this meeting, the goal of the Programme was revised: to promote hydrological activities in the World Climate Programme and related conventions, and to provide the water community with current data and information on hydrological and water resources conditions and variations, in a climatic context, over a wide range of time and space scales. Three priority areas were identified: (1) climate, water and health; (2) climate, water and food security; and (3) climate-related natural disasters and hydrological extremes in vulnerable basins. The main achievement of this meeting was to ensure that the program has a viable framework for achieving its goals. For additional information, contact Michael Coughlan, Director-Coordinator, World Climate Applications Programme, Case Postale 2300, 7 bis, Avenue de la Paix, CH-1211 Geneva 2, Switzerland; tel: 41-22-730-82-69; fax: 41-22-730-80-42; email: [coughlan\\_m@gateway.wmo.ch](mailto:coughlan_m@gateway.wmo.ch)

UNEP's Finance Initiative held its **Annual Roundtable on Globalization and Sustainable Development** 16–17 November 2000 in Frankfurt, Germany. Bankers, insurers and asset managers, and representatives from civil society and intergovernmental organizations attended the meeting. Some of the issues discussed during this meeting included environmental management, environmental performance, financing of renewable energy technologies, poverty alleviation, corporate responsibility, sustainable development and globalization. One of the messages that emerged during the meeting is that the finance industry can play a pivotal

role in driving new sustainable markets that respect the environment. For more information, contact Paul Clements-Hunt, Coordinator for the Finance Initiatives; email: pch@unep.ch

**The Second International Conference and Workshop on Forecasting Monsoon from Days to Years** was held 21–28 March 2001 in New Delhi, India. Participants from 30 WMO member countries reviewed recent advances in research on the characteristics and prediction of monsoons. Researchers and forecasters were able to discuss mutual problems and solutions for forecasting the monsoon from the short to the long term. For additional information on the findings of this workshop, contact Prof. S. K. Dube, Chairman, Local Organising Committee, Centre for Atmospheric Sciences, Indian Institute of Technology, Delhi, Hauz Khas, New Delhi – 110 016, India; tel: 91-11-4694639; fax: 91-11-4690108; email: skdube@cas.iitd.ernet.in; Web: www.ncmrwf.gov.in/icom.html

**The Conference on Equity and Global Climate Change** took place 17–18 April 2001 in Washington, DC. It was organized by the Pew Center on Global Climate Change. The conference aimed to explore how best to ensure fair and reasonable actions by all countries in addressing climate change in a manner that would reflect the significant differences between countries in terms of their capacity to respond to climate change, their historic and projected emissions, and their vulnerability to climate change impacts. Participants convened in panel discussions to address: approaches to equity; economic considerations; ethical, moral and cultural considerations; and fair and reasonable actions, including first steps such as negotiations aimed at setting rules under the Kyoto Protocol, as well as the path forward. For additional information, contact the Pew Center on Global Climate Change, 2101 Wilson Blvd., Suite 550, Arlington, VA 22201; tel: 1-703-516-4146; fax: 1-703-841-1422; Web: www.pewclimate.org/events/iisd\_summary.cfm

**The National Oceanic and Atmospheric Administration (NOAA) Constituent Planning Workshop** was held 19 April 2001 in Washington, DC. The workshop was designed to solicit long-term, strategic views from NOAA's constituents. Input generated from 7 thematic clusters (weather, climate, marine transportation, NOAA employees, fisheries, ocean and coastal habitat and environment, and protected species and places) will serve as basis for the NOAA strategic plan update. For additional information contact NOAA, 14th Street & Constitution Avenue, NW, Room 6013, Washington, DC 20230; tel: 1-202-482-6090; fax: 1-202-482-3154; Web: www.constituentaffairs.noaa.gov

**The South Asian Consultation on Atmospheric Issues** was held 17 May 2001 in New Delhi, India. The meeting was organized by the UNEP, Consumer Unity & Trust Society and South Asia Watch on Trade Environment and Economics. The Consultation was organized to find out how five South Asian countries (Bangladesh, India, Nepal, Pakistan and Sri Lanka) have responded to atmospheric issues such as ozone depletion and climate change. Each of these countries has made certain commitments to phase out ozone depleting substances and greenhouse gases under the Montreal Protocol. It was agreed that more measures needed to be taken and that financial as well as technical help was needed in order to meet their international environmental commitments. For additional information, contact Arjun Dutta or Ms. Mita Dutta, Consumer Unity & Trust Society (CUTS), 3 Suren Tagore Road, Calcutta 700019, India; tel: 91-33-4601424; fax: 91-33-4407669; email: cutscal@vsnl.com

**UNEP Expert Consultations on International Environmental Governance** was held 28–29 May 2001 in Cambridge, United Kingdom. Twenty-seven participants, including academics, policy specialists from non-governmental organizations, and veterans of international environmental negotiating processes attended the consultations. Participants conducted an extensive survey of the institutional, financial and conceptual dimensions of international environmental governance and the need to evolve new responses together with a review of UNEP's role within these wider issues. There was a consensus that UNEP must be empowered, both in terms of its financial support and a review of its functions, to meet the challenges of an evolving and increasingly complex web of international environmental governance institutions in need of improved coordination, rational organization and expert support. For more information, contact United Nations Environment Programme, United Nations Avenue, Gigiri PO Box 30552, Nairobi, Kenya; tel: 254-2-621234; fax: 254-2-624489/90; Web: www.unep.org/IEG/Meetings.asp

**Istanbul +5: Appraising Progress Five Years After Habitat II** was held 6–8 June 2001 in New York, New York. The General Assembly of the United Nations held a special session to review and appraise implementation of the Habitat Agenda worldwide. No heads of state were present, but speakers from 16 countries gave presentations on their experiences dealing with urban development, poverty, transport, water and environmental management. In terms of future activities, governments agreed to take action on broad areas relating to participation and poverty eradication, gender equity, finance, refugees and environmental



management. The vital importance of partnerships between local authorities, NGOs, business and women's groups was recognized. Additional information can be found at [www.unchs.org/istanbul+5/](http://www.unchs.org/istanbul+5/)

The **Pacific Islands Regional Meeting on Climate Change** was held 15 June 2001 in Nadi, Fiji. The environment ministers met to consider the future climate-related activities in their region. The need for ongoing and expanded capacity-building assistance for responding to the challenges of climate change was recognized and the efforts being made by Pacific Island countries to respond to the challenges of climate change and variability were acknowledged. In addition, the importance of an integrated and participatory approach to responses to climate change and variability within national development plans and priorities was highlighted. For more information, contact Fatu Tuafiafi, Information and Publications Officer, South Pacific Regional Environment Programme (SPREP), PO Box 240, Vaitele, Apia, Samoa; tel: 685-21929; fax: 685-20231; email: [fatut@sprep.org.ws](mailto:fatut@sprep.org.ws). Web: [www.sprep.org.ws/](http://www.sprep.org.ws/)

**Challenges of a Changing Earth** was held 10–13 July in Amsterdam, The Netherlands. The Amsterdam Declaration on Global Change was drafted during the meeting. Its main points are that an ethical framework for global stewardship and strategies for Earth System management are urgently needed. Strategies of good management that sustain the Earth's environment while meeting social and economic development objectives are needed. A new system of global environmental science is required: integrated across disciplines, environment and development issues and the natural and social sciences; collaborate across national boundaries on the basis of shared and secure infrastructure; intensify efforts to enable the full involvement of developing country scientists; and employ the complementary strengths of nations and regions to build an efficient international system of global environmental science. The global change programs are committed to working closely with other sectors of society and across all nations and cultures to meet the challenge of a changing Earth. For more information, contact Will Steffen, Secretary, IOC, Royal Swedish Academy of Sciences, Stockholm, Sweden; email: [will@igbp.kva.se](mailto:will@igbp.kva.se) or Web: [ww.sciconf.igbp.kva.se/fr.html](http://ww.sciconf.igbp.kva.se/fr.html)

## Upcoming Meetings

**Global Forces and their Impacts on the Pacific's Biodiversity: Towards Local and Regional Response Strategies**, the First Regional Session of the Global Biodiversity Forum for the Pacific will be held 25–28 September 2001 in Honolulu, Hawaii, USA. Global forces, such as climate, trade, and economic policies, over which Pacific Islanders have little control, threaten the region's biodiversity, its knowledge about biodiversity and how to manage it. The purpose of GBF-Pacific is to better understand these forces, analyze their impacts, and formulate local and regional strategies that respond effectively to the significant impacts these forces have on biodiversity and on the livelihoods of the Pacific Islanders who depend on that biodiversity. GBF-Pacific will address four priority issues: climate change, trade in marine biological resources, invasive species, and protecting and using traditional knowledge. For additional information, contact Charles Barber, GBF-Pacific Coordinator, World Resources Institute, 14 Cabbage Street, Valle Verde 5, Pasig, Manila, Philippines; tel: +63-2-31-0421; fax: +63-2-631-0406; email: [cvbarber@attglobal.net](mailto:cvbarber@attglobal.net). Web: [www.gbf.ch/present\\_session.asp](http://www.gbf.ch/present_session.asp)

The **6<sup>th</sup> International Carbon Dioxide Conference** will be held 1–5 October 2001 in Sendai, Japan. The purpose of the Conference is to assess our present scientific knowledge of the global carbon cycle. To achieve this objective, the Conference will call for papers from a wide area of carbon research, such as variations of carbon in the atmosphere, the oceans and the terrestrial biosphere, processes and mechanisms of carbon exchange among the carbon reservoirs, and estimates of the carbon budget. Participation by young members of the CO<sub>2</sub> community, as well as by newcomers to the community, in addition to more experienced researchers, is especially encouraged. For more information, contact Dr. Shuji Aoki, Center for Atmospheric and Oceanic Studies, Graduate School of Science, Tohoku University, Sendai 980-8578, Japan; tel: 81-22-217-5792; fax: 81-22-217-5797; email: [secre@co2.geophys.tohoku.ac.jp](mailto:secre@co2.geophys.tohoku.ac.jp). Web: [co2.geophys.tohoku.ac.jp](http://co2.geophys.tohoku.ac.jp)

**A Workshop on Climate, Tourism and Recreation** will be held 5–10 October 2001 in Chalkidiki, Greece, and is organized by the International Society of Biometeorology, Commission on Climate, Tourism and Recreation. The workshop will cover the following topics: methods for assessing relationships between climate

and tourism, implications of extreme atmospheric events for tourism and recreation, climate as a natural resource-base for tourism, economic significance of climate and climate variability for the tourism industry, effects of weather and climate on tourism 'demand,' needs of the tourist and travel industries for climate and weather information, role and significance of climate in itinerary planning and air-travel schedules, advisory services for proper climatic adaptation of travelers, weather and climate as limiting factors in tourism, and climate change and its effects on tourism and recreation. For more information, contact Dr. Andrea Matzarakis, Meteorological Institute, University Freiburg, Werderring 10, D-79085 Freiburg, Germany; tel: 49 761 203 3585; fax: 49 761 203 3586; email: matzarak@uni-freiburg.de. Web: [www.mif.uni-freiburg.de/isb/](http://www.mif.uni-freiburg.de/isb/)

**NOAA's 26th Annual Climate Diagnostics and Prediction Workshop** will be held *22–26 October 2001* in La Jolla, California. The workshop will provide an opportunity to exchange information, ideas and opinions on a wide variety of topics, including: the 2000-2001 climate, assessment of climate predictions in 2000-2001, precipitation forecasting in complicated terrain, drought/water monitoring in the western U.S., monsoons, diagnosis and prediction of intra-seasonal oscillations, diagnosis and prediction of decadal variations and global, regional and local ocean-land-atmosphere interactions. For more information, contact the NOAA Climate Prediction Center, World Weather Building, 5200 Auth Road, Camp Springs, MD 20746; tel: 1-301-763-8000. Web: [www.cpc.ncep.noaa.gov/products/outreach/CDW26.html](http://www.cpc.ncep.noaa.gov/products/outreach/CDW26.html)

The **13<sup>th</sup> Congress of the Asia Pacific Forum of Environmental Journalists (AFEJ)** will be held *22–26 October 2001* in the Philippines. AFEJ is a non-government organization dedicated to promoting education, understanding and awareness of the environment through the honest and accurate reporting of local, regional and international environmental and development issues. Members include journalists working for newspapers, magazines, radio, broadcasters, NGOs, environmental groups, government departments and agencies and as freelancers. Some of the topics of this congress will include: environmentally sound and sustainable development, further implementation of Agenda 21, biological diversity and desertification, environmental health, marine conservation, urban development and international environmental law. For more information, contact Asia-Pacific Forum of Environmental Journalists, P.O. Box 26, 434/3 Sri Jayawardenapura; tel: 94-1-829519; fax: 94-1-826607 or 869340; email: [afej@sri.lanka.net](mailto:afej@sri.lanka.net); Web: [www.oneworld.org/slejf/index.htm](http://www.oneworld.org/slejf/index.htm)

The **Third International Disaster & Emergency Readiness Conference** will be held *23–25 October 2001* in The Hague, The Netherlands. The main theme of the conference is to promote best practices in disaster management by bringing together experts from many parts of the world. Conference sessions include lessons learned from responding to major disasters such as earthquakes and the development of better coordination and cooperation between international organizations. For more information, contact Peter LeMarchand, Andrich International Ltd., 51 Market Place, Warminster, Wiltshire BA12 9AZ, UK; Tel 44-1985-846181; fax: 44-1985-846163; email [ider@andrich.com](mailto:ider@andrich.com); Web: [www.andrich.com/ider/](http://www.andrich.com/ider/)

The **International Symposium on Arctic Feedbacks to Global Change** will be held from *25–27 October 2001* in Rovaniemi, Finland. It is sponsored by the Nordic Arctic Research Programme and the Academy of Finland, and will feature a summary of Global Climate Model results for the Arctic, including in relation to the marine sector, terrestrial ecosystems, freshwater ecosystems and icecaps/glaciers. For more information contact: Peter Kuhry; Tel: 358-16-341-2758; email: [peter.kuhry@urova.fi](mailto:peter.kuhry@urova.fi)

The **Seventh Conference of the Parties to the UN Framework Convention on Climate Change** will be held *29 October–9 November 2001* in Marrakesh, Morocco. Conscious of the ecological threats that weigh on the planet, Morocco adhered to more of 60 agreements and international conventions in order to fully take part in efforts aiming toward a research solution able to guarantee the protection of the environment ([www.minenv.maroc.ma](http://www.minenv.maroc.ma)). Facing the alarming report of continuous deterioration of the worldwide climate and in view of its desire to participate in a global answer to this problem, Morocco is holding the conference in 2001, the Seventh Conference of the Framework Convention on Climate Change (COP7). For additional information, contact the Secretariat, PO Box 260124, D-53153 Bonn, Germany. Tel: 49 228 815 1000; fax: 49 228 815 1999; Web: [www.cop7.org.ma/](http://www.cop7.org.ma/) or email [info@minenv.gov.ma](mailto:info@minenv.gov.ma)

An international conference entitled **Changes in Climate at High Latitudes** will be held *31 October–2 November* in Tromsø, Norway. The main purpose of the conference is to bring together geo-scientists studying late Quaternary climates and sedimentary processes in high-latitude areas. The conference will cover topics such as palaeoclimate, palaeoceanography, sedimentary processes on the continental margin and in fjords, and glacial/deglacial history. For additional information, contact Kai-Rune Mortensen, Department of Geology, University of Tromsø, N-9037 Tromsø,

Norway; tel: 47-77-64-44-28; fax: 47-77-64-56-00; email: kairm@ibg.uit.no or Web: www.ibg.uit.no/geologi/konferanser/clienvir/index.html

**The First Annual Records of Tropical Systems Open Sciences Meeting** will be held *4–7 November 2001* in Nouméa, New Caledonia. Scientists and graduate students engaged in studies of tropical climate variability at seasonal to annual timescales within the Pacific and Indian basins and surrounding continental regions should consider attending this meeting. Those working with the modern instrumental record, modelers, and paleoscientists working with annual resolution archives such as tree rings, corals and ice cores are encouraged to attend. Abstracts will be accepted until October 15. For more information, contact Rob Dunbar, Department of Geological and Environmental Sciences, Stanford University, Stanford, CA 94305-2115; tel: 1-650-725-6830; fax: 1-650-725-0979; email: dunbar@stanford.edu Web: pangea.stanford.edu/Oceans/ARTS/Noumea2001.html

**The ISES 2001 Solar World Congress** will be held *25 November–2 December 2001* in Adelaide, Australia. The theme of 'Bringing Solar Down to Earth' includes: the business opportunities arising from the implementation of renewable energy technologies, community awareness of the benefits of using renewable energy and striking the balance between developed and developing regions. The technical program, covering all aspects of renewable energy and energy sustainability, includes research and development, industry, applications, demonstrations, education, and socio-economic and political issues. For more information please contact: ISES 2001 Solar World Congress, c/o Hartley Management Group Pty Ltd, P.O. Box 20, Kent Town 5071, South Australia; tel: 61-8-8363-4399; fax: +61-8-8363-4577; email: ises2001@hartleymgt.com.au; Web: www.unisa.edu.au/ises2001congress

**The 4<sup>th</sup> International Symposium on Sustainable Development in the Andes: The Andean Challenge for the 21<sup>st</sup> Century** will be held *25 November–3 December 2001* in Mérida, Venezuela. The main objective of the symposium is to analyze the challenges and opportunities the Andean region will be confronted with in the 21<sup>st</sup> century. Major topics include climate and water resources in the Andes, climate variability, ENSO, extreme events, climate change, impacts on glaciers, desertification, and quality of life. For more information, contact Maximina Monasterio or Rigoberto Andressen, Instituto de Ciencias Ambientales y Ecológicas (ICAE), Facultad de Ciencias, Universidad de Los Andes, Mérida 5101, Venezuela; tel: +58-274-2401255/2441575; fax: +58-274-2401286; email:

amamrd@ciens.ula.ve; Web: liscano.forest.ula.ve/~amamerida/english/

**The International Conference on Freshwater** will be held *3–7 December 2001* in Bonn, Germany. The conference is aimed at representatives of national governments, international organizations and NGOs. Serving as a preparatory step for the 2002 World Summit on Sustainable Development in Johannesburg the conference offers an opportunity to discuss practical incentives on how to establish a forward-looking process to improve freshwater management. Some of the themes that will be covered include water and sanitation for the poor, water resources protection, competing water uses, transboundary water issues, floods and droughts. For additional information, contact the Secretariat of the International Conference on Freshwater, Tulpenfeld 7, 53113 Bonn, Germany; tel: 49-228-28046-55; fax 49-228-28046-60; email: info@water-2001.de; Web: www.water-2001.de/2001/

**The Solutions to Coastal Disasters Conference 2002** will be held *24–27 February 2002* in San Diego, California. The goal of the conference is to bring together coastal researchers, scientists and managers to exchange information about coastal disasters; to project future trends in coastal disaster occurrence and management options by examining past events; to demonstrate and improve links between coastal research, engineering, management and decision-making; to identify gaps in information exchange between researchers and managers; and to offer potential solutions to close the gaps. For more information, contact Ms. Lesley Ewing, CCC, 45 Fremont Street, Suite 200, San Francisco, CA 94105; tel: 1-415-904-5291; email: lewing@coastal.ca.gov; Web: www.asce.org/conferences/cd2002/home.html

**The 9<sup>th</sup> Biennial Conference of the Association** will be held *17–21 July 2002* in Victoria Falls, Zimbabwe. The theme of the conference is "**The Commons in an Age of Globalization.**" Topics are not restricted to natural resource management, and also include: issues of governance, economic systems and hidden values, tourism and global ideology; carbon sinks and climatic change; state versus local common property resource; globalization as econo-centric and its relationship to sustainable use; and marginalization and globalization links. All inquiries regarding the conference should be directed to: IASCP Conference Secretariat, Center for Applied Social Sciences (CASS), University of Zimbabwe, PO Box MP 167, Mount Pleasant, Harare, Zimbabwe. Papers and panel abstracts not exceeding 500 words should be submitted by **1 October 2001** to iascp@cass.org.zw. Web: www.indiana.edu/~iascp/themes2002.html

## Recent Publications

### Books

Boldyrev, V.S., 2001: **Ecotechnology of Shelf Development: Case Study of the Caspian Sea**. Contact Igor Zonn, Baumanskaya ul., 43/1, Moscow 107005, Russia; email igorzonn@mtu-net.ru

Committee on Climate, Ecosystems, Infectious Diseases, and Human Health, Board on Atmospheric Sciences and Climate, National Research Council, 2001: **Under the Weather: Climate, Ecosystems, and Infectious Disease**. Contact David Reynolds, National Academy Press; tel: 1-202-334-3313; email: dreynold@nas.edu; Web: [www.nationalacademies.org](http://www.nationalacademies.org); available on line at [www.nap.edu/catalog/](http://www.nap.edu/catalog/)

Grigoryev, Al. A. and K. Ya. Kondratyev, 2001: **Ecodynamics and Geopolity: Volume 2 - Environmental Disasters**. (Table of Contents is in English; the book is in Russian.) Contact Russia's Art, Promyshlennaya St., 38-2, St. Petersburg 198099, Russia; or contact Prof. Dr. Kirill Ya. Kondratyev, Korpusnaya St., 18, St. Petersburg 197110, Russia; tel: 7-812-230-7837; fx: 7-812-230-7994; email: kirill.kondratyev@niersc.spb.ru

Jacobson, M., R.J. Charlson, and G.H. Orians, 2000: **Earth System Science: From Biogeochemical Cycles to Global Change**. Contact Academic Press, Marketing Dept. DM63045, 525 B St., Suite 1900, San Diego, CA 92101-4495; tel: 1-407-345-2000; email: ap@acad.com; web: [www.academicpress.com/geoscience](http://www.academicpress.com/geoscience)

Jenkins, J., 2000: **Balance Point: Searching for a Spiritual Missing Link**. Contact Leo Glenn, Marketing & Research Associate, Jenkins Publishing, PO Box 607, Grove City, PA 16127; tel: 1-724-794-3588; email: leo@jenkinspublishing.com; web: [www.jenkinspublishing.com](http://www.jenkinspublishing.com)

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Kondratyev, K. Ya., 1998: **Multidimensional Global Change**. John Wiley & Sons, Baffins Lane, Chichester, West Sussex, PO19 1UD, UK. For further information, contact Prof. Dr. Kirill Ya. Kondratyev, Korpusnaya St., 18, St. Petersburg 197110, Russia; tel: 7-812-230-7837;

fx: 7-812-230-7994; email: kirill.kondratyev@niersc.spb.ru

Markgraf, V. (Ed.), 2001: **Interhemispheric Climate Linkages**. Contact Academic Press, Inc., Order Fulfillment Department, 6277 Sea Harbor Drive, Orlando, Florida 32887; tel: 1-407-345-3800; email: apbcs@harcourt.com

Moench, M., E. Caspari, and A. Dixit (Eds.), 1999: **Rethinking the Mosaic: Investigations into Local Water Management**. Published by Nepal Water Conservation Foundation, Kathmandu, Nepal, and the Institute for Social and Environmental Transition, Boulder, CO. For further information, contact Jagadamba Press, PO Box 42, Patan Dhoka, Nepal.

Salt, J.E. (Ed.), 2001: **The Implications of Climate Change for the Insurance Industry: An Update and Outlook to 2020**. Order from BREcom, LPC Centre for Risk Sciences, Garston, WD25 9XX, UK; Web: [www.bre.co.uk](http://www.bre.co.uk)

### Articles

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Dolman, H., et al., 2001: **Terrestrial Carbon Sinks and the Kyoto Protocol: The Scientific Issues**, Report No. 410 200 068. Contact the Scientific Officer at the Dutch National Research Programme, Antonie van Leeuwenhoeklaan 9, PO Box 1, 3720 BA Bilthoven, The Netherlands; tel: 31-30-2743211; fx: 31-30-2744436; web: [www.nop.nl](http://www.nop.nl)

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## Web sites of Interest



### **[www.aaas.org/international/atlas/contents/aaas.html](http://www.aaas.org/international/atlas/contents/aaas.html)**

This atlas was produced by the American Association for the Advancement of Science (AAAS) is now available online in its entirety.

### **<http://uswrp.mmm.ucar.edu/uswrp/>**

This site provides an overview of the program structure and ongoing research of the U.S. Weather Research Program.

### **<http://ecpc.ucsd.edu/>**

The Scripps ECPC is a NOAA Applied Research Center. Their goal is to develop experimental global to regional predictions of the atmosphere, ocean, and land, at daily to interannual time scales.

### **[www.nacc.usgcrp.gov/](http://www.nacc.usgcrp.gov/)**

The US National Assessment of the Potential Consequences of Climate Variability and Change for the Nation provides a detailed understanding of the consequences of climate change for the nation and examines the possible coping mechanisms that exist to adapt to climate change.

### **[www.apu.ac.uk/geography/radix/](http://www.apu.ac.uk/geography/radix/)**

Radical Interpretations of Disasters and Radical Solutions (RADIX) is meant as a home for discussion, working papers, opinion pieces, resources, links that can help to develop radical interpretations of and radical solutions for all disasters in all parts of planet earth.

### **[reports.eea.eu.int/signals-2001/index\\_html](http://reports.eea.eu.int/signals-2001/index_html)**

The European Environment Agency published a report entitled *Environmental Signals 2001*. The full report, summary and presentations are available online in multiple languages.

### **[www.cip.ogp.noaa.gov/ranet/](http://www.cip.ogp.noaa.gov/ranet/)**

RANET (Radio and Internet) is an effort of several partners to make climate and weather-related information more accessible. The Climate Information Project contributes by creating and managing a multi-media broadcast of observations, forecasts, and bulletins.

### **[www.pacinst.org/wildlife.html](http://www.pacinst.org/wildlife.html)**

This bibliography of peer-reviewed and gray literature focuses on environmental change. 2880 citations have been included to date and the bibliography will be updated every two months.

### **[www.inetafrica.co.za/](http://www.inetafrica.co.za/)**

African Venture is a free on-line newsletter bringing you environmental, human sciences and earth sciences news, reviews and press releases from around the world, with a special focus on Africa.

### **[www.ilec.or.jp/database/database.html](http://www.ilec.or.jp/database/database.html)**

ILEC started a data collection project entitled "Survey of the State of World Lakes." The aim is to gather environmental information on natural and artificial lakes and its dissemination especially in developing countries and countries with economies in transition.

The NETWORK NEWSLETTER is intended for those interested and involved in climate-related impact assessment. It is hoped that it will serve to foster a growing network by keeping the community up to date on the many activities in this wide and varied field. Your involvement in supplying relevant information is essential to the success of this endeavor.

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[www.esig.ucar.edu/newshp](http://www.esig.ucar.edu/newshp)

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