



The Asia-Pacific Network Global Change Research (APN) is an inter-governmental network in the Asia-Pacific whose aim is to foster global change research in the region, increase developing country involvement in that research, and strengthen interactions between the science community and policy makers. The APN's membership includes 21 countries (as of May 2008).

Major Activities in 2007-2008

- Annual Regional Call for Proposals (ARCP): supported/managed 20 projects
- Scientific Capacity Building/Enhancement for Sustainable Development in Developing Countries (CAPaBLE): supported/managed 12 projects
- Implemented the new system for the APN's Calls for Proposals for ARCP & CAPaBLE
- 2nd Southeast Asia Sub-Regional Committee Meeting
- APN participated at various international and national fora
- Conducted capacity building through Programme Fellowship
- APN International Seminar on "Global Warming and Ecosystem/Biodiversity Changes: Facing the Challenge of Changing Ecosystems"

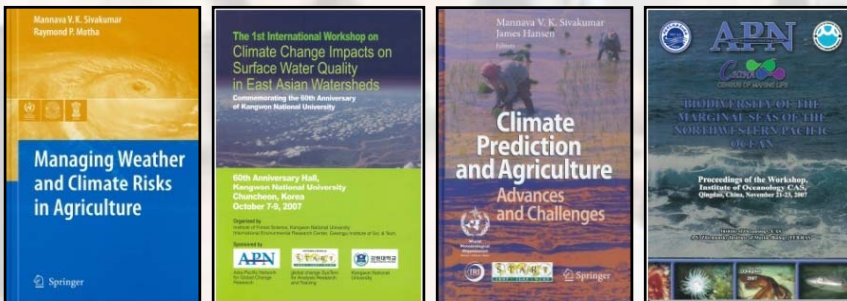


Publications

The APN produces publications in order to help achieve its goal of "providing scientific input to policy decision-making and scientific knowledge to the public." In 2007/2008, the following were published:

- 12th IGM/SPG Meeting Proceedings
- APN General Brochure (English) and translated into native languages of APN member countries (11 translations)
- CAPaBLE Phase One Publication
- Annual Report 2006/2007, March 2008
- Project Bulletin, Volume 3, March 2008
- Quarterly Newsletter (electronic copy)
- Inclusion of the results of the two APN Scoping Workshops in the publication "The First 100 Steps to GEOSS" as achievements towards the GEOSS 10-Year Implementation Plan
- Proceedings of the International Seminar on "Global Warming and Ecosystem/Biodiversity Changes: Facing the Challenge of Changing Ecosystems"

selected project outputs



Participation at Various Fora

- United Nations Framework Convention on Climate Change (UNFCCC) 26th Sessions of the Subsidiary Body for Scientific and Technological Advice (SBSTA) and the Subsidiary Body for Implementation (SBI)
- Inter-American Institute for Global Change Research (IAI) 14th Conference of the Parties
- 15th Environment Congress for Asia and the Pacific (ECO Asia 2007)
- Global Change System for Analysis, Research, and Training (START) Scientific Steering Committee Meeting
- Asia-Pacific Regional Workshop on GEOSS Information Access
- International Group of Funding Agencies for Global Change Research (IGFA) Annual Meeting
- UNFCCC COP13 and COP/MOP3
 - 2 Unofficial Side Events (one under an APN CAPaBLE Project)
 - 1 Official Side Event (UNU-IHDP)
 - 1 Official Side Event and Exhibit under an APN ARCP Project
- 3rd Asian Water Cycle Symposium

Many APN project-related events also took place throughout the year.

various activities conducted under APN-funded projects



water monitoring

hands-on training on Netlogo

collecting core wood samples



APN Sponsors



The APN relies heavily on the generosity and commitment of all its member countries for financial and in-kind support.

Approved continued and new projects for funding in 2008/2009

ARCP2008-01CMY-Ziegler: Sediment Dynamics and Down-stream Linkages in Tropical Streams as Affected by Projected Land-Cover/Land-Use and Climatic Change; **Project Leader:** Dr. Alan D. Ziegler; Email: adz@hawaii.edu

ARCP2008-02CMY-David: Integrated Vulnerability Assessment of Coastal Areas in the Southeast Asia and East Asian Region; **Project Leader:** Dr. Laura T. David; Email: ldavid@upmsi.ph

ARCP2008-03CMY-Baguinon: Collaborative Studies in Tropical Asian Dendrochronology: Addressing Challenges in Climatology and Forest Ecology; **Project Leader:** Dr. Nestor T. Baguinon; Email: ntbaguinon2001@yahoo.com

ARCP2008-04CMY-Park: Regional Collaborative Research on Climate Change Impacts on Surface Water Quality in Eastern Monsoon Asia: Towards Sound Management of Climate Risks; **Project Leader:** Dr. Ji-Hyung Park; Email: treepark@gist.ac.kr

ARCP2008-05CMY-Adrianov: Marine Biodiversity of the Coastal Zones in the Northwest (NW) Pacific: Status, Regional Threats, Expected Changes and Conservation; **Project Leader:** Dr. Andrey V. Adrianov; Email: inmarbio@mail.primorye.ru

ARCP2008-06CMY-Li: Quantification of Land-Use Urbanisation Level in Three Developing Asian Countries Based on the Analysis of Scale Effects in Landscape Pattern; **Project Leader:** Prof. Jianlong Li, Nanjing University; Email: jlli2008@nju.edu.cn; jianlongli@hotmail.com

ARCP2008-07CMY-Dutta: Climate Perturbation and Coastal Zone Systems in Asia Pacific Region: Holistic Approaches and Tools for Vulnerability Assessment and Sustainable Management Strategy; **Project Leader:** Dr. Dushmanta Dutta; Email: dushmanta.dutta@sci.monash.edu.au

ARCP2008-08CMY-Chen: Asian Mega-Deltas: Monsoon Circulation in Relation to Deltaic-Coastal Hazards and Future Mitigation – Millennial to Seasonal Dimensions
Project Leader: Prof. Zhongyuan Chen; Email: Z.Chen@ecnu.edu.cn

ARCP2008-09CMY-Espaldon: Assessing Vulnerability of Communities and Understanding Policy Implications of Adaptation Responses to Flood-Related Landslides in Asia; **Project Leader:** Dr. Ma. Victoria O. Espaldon; Email: voespaldon@yahoo.com

ARCP2008-10CMY-Sheikh: Development and Application of Climate Extreme Indices and Indicators for Monitoring Trends in Climate Extremes and their Socio-Economic Impacts in South Asian Countries; **Project Leader:** Dr. Muhammad Munir Sheikh; Email: gcisc@comsats.net.pk; munir.sheikh@gcisc.org.pk

ARCP2008-11CMY-Samarawickrama: Developing an Integrated Framework for Science Policy Interactions towards Enhanced Management of Coastal Systems in South Asia; **Project Leader:** Dr. Saman Samarawickrama; Email: sujini@nsf.ac.lk; samans@civil.mrt.ac.lk; anuama@nsf.ac.lk

ARCP2008-12NSY-Eastwood: Historical Reconstruction and Mapping of Pacific Island Coasts; **Project Leader:** Dr. Paul Eastwood; Email: paul.eastwood@sopac.org

ARCP2008-13NMY-Fukami: Flood Risk Management Demonstration Project (phase 1) under the Asian Water Cycle Initiative for the Global Earth Observation System of Systems (FRM/AWCI/GEOSS); **Project Leader:** Mr. Kazuhiko Fukami; Email: k-fukami@pwri.go.jp

ARCP2008-14NMY-Okladnikov: Human Impact on Land-cover Changes in the Heart of Asia; **Project Leader:** Dr. Igor Okladnikov; Email: oig@scert.ru

ARCP2008-15NMY-Nikitina: Reducing Water Insecurity through Stakeholder Participation in River Basin Management in the Asia-Pacific; **Project Leader:** Dr. Elena NIKITINA; Email: elenanikitina@bk.ru

ARCP2008-16NMY-Shrestha: Impacts of Global Change on the Dynamics of Snow, Glaciers and Runoff over the Himalayan Mountains and their Consequences for Highland and Downstream Regions; **Project Leader:** Dr. Kedar Lal Shrestha; Email: klshrestha@wlink.com.np

ARCP2008-17NMY-Sellers: Peri-Urban Development and Environmental Sustainability: Examples from China and India; **Project Leader:** Dr. Jefferey M. Sellers; Email: sellers@usc.edu

ARCP2008-18NMY-Braimoh: Managing Ecosystems Services in Asia: A Critical Review of Experiences in Montane Upper Tributary Watersheds; **Project Leader:** Dr Ademola Braimoh; Email: abrainoh@glp.hokudai.ac.jp

ARCP2008-19NMY-Zou: Temperature Sensitivity of Soil CO₂ Efflux as Altered by Rubber Tree Plantations in Southeast Asia; **Project Leader:** Dr. Xiaoming Zou; Email: xzou2000@yahoo.com

ARCP2008-20NMY-Iqbal: Assessment of Food and Water Security in South-Asia under Changing Climate Scenario Using Crop Simulation and Water Management Models, and Identification of Appropriate Strategies to Meet Future Demands; **Project Leader:** Dr. M Mohsin Iqbal, Head Agriculture Section; Email: Mohsin.iqbal@gcisc.pk

CBA2008-01CMY-Boer: Increasing Adaptive Capacity of Farmers to Extreme Climate Events and Climate Variability through Enhancement of Policy-Science-Community Networking; **Project Leader:** Dr. Rizaldi Boer; Email: rizaldiboer@yahoo.com

CBA2008-02CMY-Mathur: Communicating Economic Implications of Climate Change Impacts and Net Benefits of Adaptation Measures to Policy Makers to enable them to take Informed Decisions; **Project Leader:** Dr. Udit Mathur; Email: achatterjee@devalit.org; umathur@devalit.org

CBA2008-03NSY-Park: Training Course on Regional Downscaling for Asia-Pacific Region using Asia-Pacific Economic Cooperation (APEC) Climate Centre Global Seasonal Climate Prediction; **Project Leader:** Dr. Chung-kyu Park; Email: ckpark@apcc21.net

CBA2008-04NSY-Nakashizuka: Training in Science-Policy Interfacing to Promote the Application of Scientific Knowledge on Adaptation of Forests and Forest Management to Climate Change; **Project Leader:** Prof. Tohru Nakashizuka; Email: toron@mail.tains.tohoku.ac.jp

CBA2008-05NMY-Ailikun: The Capacity Building for Drought Monitoring and Studying in Monsoon Asia under the Framework of Asian Water Cycle Initiative (AWCI); **Project Leader:** Dr. Ailikun; Email: aili@mairs-essp.org

CBA2008-06NSY-Fuchs/Lewis: Cities At Risk: Developing Adaptive Capacity for Climate Change in Asia's Coastal Mega Cities; **Project Leaders:** Prof. Roland Fuchs and Dr. Nancy Lewis; Email: fuchsr@eastwestcenter.org; rfuchs@aqu.org; lewisn@eastwestcenter.org

CBA2008-07NSY-Srivastava: Social Challenges of Global Change: The 7th International Science Conference on the Human Dimensions of Global Change (IHDP Open Meeting 2008); Delhi, India, 16-19 October 2008; **Project Leader:** Dr. Leena Srivastava; Email: leena@teri.res.in

CBA2008-08NSY-Andonowati: Integrating Indonesian Capacity for Coastal Zone Management; **Project Leader:** Dr. Andonowati; Email: aantrav@attglobal.net

CBA2008-09NSY-Peñalba: Enhancing the Climate Change Adaptation Capacity of Local Government Units and Scientists in the Philippines; **Project Leader:** Dr. Linda M. Peñalba; Email: lmpeñalba@yahoo.com

CBA2008-10NSY-Dye: Regional Participation in the US-Japan Workshop on Monsoon Asia Tropical Forest Carbon Dynamics and Sustainability; **Project Leader:** Dr. Dennis G. Dye; Email: dye@jamstec.go.jp

CBA2008-11NSY-Bai: 6th Biennial International Human Dimensions Workshop (IHDW) on Global Change Research: A Series of Capacity Building Training Seminars; **Project Leader:** Dr. Xuemei Bai; Email: xuemei.bai@csiro.au

CBA2008-12NMY-Ishida: The Global Earth Observation System of Systems Asian Water Cycle Initiative Observation Convergence and Data Integration (GEOSS/AWCI/OCIDI); **Project Leader:** Mr. Chu Ishida; Email: ishida.chu@jaxa.jp

CBA2008-13NSG-Li: Seed Grant for Inter-agency Earth Observation (EO) Information Technologies for Changing Global Change (GC) Research in Asia Pacific (AP) Region; **Project Leader:** Dr. Guoqing Li; Email: gqli@ne.rsgs.ac.cn

CRP2008-01CMY-Dixit: Improving Policy Responses to Interactions between Global Environmental Change and Food Security across the Indo-Gangetic Plain; **Project Leader:** Dr. Ajaya Dixit; Email: nwcf@wlink.com.np

CRP2008-02CMY-Yan: Integrated Model Development for Water and Food Security Assessments and Analysis of the Potential of Mitigation Options and Sustainable Development Opportunities in Temperate Northeast Asia; **Project Leader:** Prof. Xiaodong Yan; Email: yxd@tea.ac.cn

CRP2008-03CMY-Jintrawet: Climate Change in Southeast Asia and Assessment on Impact, Vulnerability and Adaptation on Rice Production and Water Balance; **Project Leader:** Dr. Attachai Jintrawet; Email: attachai@chiangmai.ac.th



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