



The **Asia-Pacific Network for Global Change Research (APN)** is a network of member governments in the Asia-Pacific whose vision is to enable countries in the region to successfully address global change challenges through science-based response strategies and measures, effective science and policy linkages, and scientific capacity development.

Highlights of 2009/2010

- Annual Regional Call for Research Proposals Programme (ARCP): supported/managed **19 projects**
- Scientific Capacity Building/Enhancement for Sustainable Development in Developing Countries Programme (CAPaBLE): supported/managed **14 projects**
- Special Call for Proposals for a Focussed Activity: Scientific Capacity Building for Climate Impact and Vulnerability Assessments (SCBCIA); received **82 proposals and managing 7 projects**
- 2009 APN **Annual Proposal Calls and Review Process** under ARCP & CAPaBLE Programmes
- Two-year synthesis activity - **Climate in Asia and the Pacific: synthesising the work of over 50 APN climate projects**
- Facilitated and conducted 2-tier evaluation of the APN's second strategic phase (science/policy and institutional) and formulated the 3rd Strategic Plan (3SP).
 - *APN-funded projects overall had **very good success in meeting the 5 goals of the APN 2nd Strategic Phase** (outstanding projects were selected)*
 - *APN has steadily improved and expanded its interactions with policy- and decision-makers, thus **helping to provide sound scientific basis for policy- and decision-making** related to global change in the region*
- **Bhutan** was endorsed as a new member at the 15th Inter-Governmental Meeting (IGM)/Scientific Planning Group (SPG) Meeting, **bringing the number of APN member countries to 22**
- Launched a **new APN website** as the APN entered its third strategic phase, from April 2010
- Devised **Resources Development Strategy** that was endorsed at the 15th IGM/ SPG Meeting
- Two **Programme Fellows** joined the APN Secretariat (in autumn) as part of APN's capacity development programme
- Contributing to policy processes and bodies such as the United Nations Framework Convention on Climate Change (UNFCCC), Subsidiary Body for Implementation (SBI), Subsidiary Body for Scientific Technological Advice (SBSTA) and the Intergovernmental Panel on Climate Change (IPCC) through **research and capacity development activities, particularly in developing countries**
- Addressing the needs identified by United Nations Commission for Sustainable Development (UNCSD) in ensuring that activities and outputs fully **address issues of sustainable development** for the region
- Communicating and **collaborating closely with key organisations in the global change community** to achieve shared goals, maximise available resources, and deliver the best possible results



Ministry of Environment
Environment
Resource Use & Conservation



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

Major Publications in 2009/2010

The APN produces publications to communicate the outcomes of the projects it supports and widely disseminate the results to science and non-science communities.

- **Proceedings** of the following:
 - APN International Seminar on Biodiversity and Human Dimensions: Promoting Harmonious Coexistence
 - APN International Symposium on Challenge 25 Beyond Borders?: Promoting a Low Carbon Society
 - 14th IGM/SPG Meeting
 - 2009 Proposal Development Training Workshop
- CAPaBLE Phase One 'In Review' **Brochure**
- **4 Posters** highlighting APN activities
- APN 2009 General **Brochure in nine (9) languages**: Bahasa Malaysia, Chinese, English, Japanese, Khmer, Laotian, Sinhala, Thai, Urdu
- CAPaBLE **Policy Brief**, Vol. 1 Issue 1
- APN **Annual Report** 2008-2009
- APN **Project Bulletin**, Volume 5
- Quarterly issues of the APN **Newsletter** (soft/electronic copy)

Major activities organised/conducted and co-sponsored in 2009/2010

- APN International Symposium on Challenge 25 Beyond Borders?: Promoting a Low Carbon Society, *Kobe, Japan, January 2010*
- Scoping Workshop for Climate Synthesis, *Kobe, Japan, November 2009*
- APN/Hyogo Low Carbon Society Scoping Workshop, *Kobe, Japan, October 2009*
- Side-event and exhibit at the Association of Southeast Asian Nations (ASEAN) Conference on Biodiversity, *Singapore, October 2009*
- 13th Steering Committee (SC) Meeting, Augmented SC Meeting (ASCM) and Writing Workshop (drafted the Evaluation Report of the second strategic phase and formulated the 3SP with the stakeholders and scientific experts), *Kobe, Japan, August 2009*
- 2nd Southeast Asia Sub-Regional Cooperation (SRC) Meeting, *Bangkok, Thailand, August 2009*
- 1st South Asia SRC Meeting, *Colombo, Sri Lanka, July 2009*
- Cool Earth Partnership Japan International Cooperation Agency (JICA) Training, *Osaka, Japan, July 2009*
- Proposal Development Training Workshop (PDTW) at the 17th Session of the UNCSO Partnerships Fair, *New York, May 2009*
- 9th Global Earth Observation System of Systems (GEOSS) Capacity Building Committee Meeting, *Athens, Greece, April 2009*
- Exhibit at the Greenhouse 2009: Climate Change and Resources, *Perth, Australia, March 2009*

APN also continues to engage at numerous international fora organised by the global change community.



Approved continued and new projects for funding in 2010/2011

CAPaBLE

CBA2010-01CMY-Sang-arun: Promoting Sustainable Use of Waste Biomass in Cambodia, Lao PDR and Thailand; Combining Food Security, Bio-energy and Climate Protection Benefits; **Project Leader:** Dr. Janya SANG-ARUN, sang-arun@iges.or.jp

CBA2010-02CMY-Togtohyun: Dryland Development Paradigm (DDP) Application for the Most Vulnerable to Climate and Land Use Change of Pastoral Systems in the Southern Khangai Mountains of Mongolia (DDPPaS); **Project Leader:** Dr. Chuluun TOGTOHYUN, chuluun@nrel.colostate.edu

CBA2010-03NSY-Indrawan: Developing the Capacity for Teaching Biodiversity and Conservation in the Asia-Pacific Region; **Project Leader:** Dr. Mochamad INDRAWAN, jambalang@cbn.net.id

CBA2010-04NSY-Dhakal: Carbon Governance in Asia: Bridging Scales and Disciplines **Project Leader:** Dr. Shobhakar DHAKAL, shobhakar.dhakal@nies.go.jp

CBA2010-05NSY-Lorrey: Improving Pacific Island Meteorological Data Rescue and Data Visualisation Capabilities through Involvement in Emerging Climate Research Programmes; **Project Leader:** Dr. Andrew LORREY, a.lorrey@niwa.co.nz

CBA2010-06NSY-Kench: Improving Understanding of Local-Scale Vulnerability in Atoll Island Countries: Developing Capacity to Improve In-Country Approaches and Research; **Project Leader:** Assoc. Prof. Paul KENCH, p.kench@auckland.ac.nz

CBA2010-07NSY-Stone: Web-based 'Discussion-support' Agricultural-Climate Information for Regional India; **Project Leader:** Prof. Roger STONE, stone@usq.edu.au

CBA2010-08NSY-Salinger: Addressing the Livelihood Crisis for Farmers: Weather and Climate Services for Sustainable Agriculture – Development of Tools; **Project Leader:** Dr. Jim SALINGER, j.salinger@auckland.ac.nz

CBA2010-09NSY-Rupakheti: Scientific Capacity Development of the Trainers and Policy Makers for Climate Change Adaptation Planning in Asia and the Pacific; **Project Leader:** Dr. Maheswar RUPAKHETI, Maheswar.Rupakheti@rrcap.unep.org

CBA2010-10NSY-Chen: Promoting a Data Sharing Environment within the Earth Observation System of Systems: The Asia-Pacific Perspective; **Project Leader:** Dr. Robert S. CHEN, bchen@ciesin.columbia.edu

CBA2010-11NSY-De Guzman: Capacity Building for Research and Monitoring of Marine Protected Areas: An Adaptive Mechanism for Climate Change in the Asia-Pacific Region; **Project Leader:** Dr. Asuncion DE GUZMAN, sony_deguzman@yahoo.com

CBA2010-12NSY-Pradhananga: Graduate Conference on Climate Change and People; **Project Leader:** Mr. Dhiraj PRADHANANGA, dirajmet@hotmail.com; smallearth@wlink.com.np

CBA2010-13NMY-Kawai: Capacity Building of Biodiversity Research in the Coastal Zones of the Asia Pacific Region: Phycology Taxonomy Analysis Training Using Genetic Marker; **Project Leader:** Prof. Hiroshi KAWAI, kawai@kobe-u.ac.jp; furukawa@emecs.or.jp

CBA2010-14NMY-Kaihotsu: Drought Monitoring System Development by Integrating In-situ Data, Satellite Data and Numerical Model Output; **Project Leader:** Prof. Ichiro KAIHOTSU, kaihotu@hiroshima-u.ac.jp

CBA2010-15NSY-South: Global Change and Coral Reef Management Capacity in the Pacific: Engaging Scientists and Policy Makers in Fiji, Samoa, Tuvalu and Tonga; **Project Leader:** Prof G. Robin SOUTH, robin_south@orda.com.au; south_g@usp.ac.fj

CRP2010-01CMY-Weber: Vulnerability Mapping as a Policy Tool in Developing Countries; **Project Leader:** Dr. Eberhard WEBER, weber_e@usp.ac.fj

CRP2010-02CMY-Pereira: Strengthening Capacity for Policy Research on Mainstreaming Adaptation to Climate Change in Agriculture and Water Sectors; **Project Leader:** Dr. Joy Jacqueline PEREIRA, joy@ukm.my

SCBCIA

Through additional support from the Ministry of the Environment, Japan, APN has awarded 7 grants to developing nations in the region.

CIA2009-01-SNIDVONGS: Climate Change Vulnerability Assessment and Urban Development Planning for Asian Coastal Cities; **Project Leader:** Dr. Anond SNIDVONGS, anond@start.or.th

CIA2009-02-PULHIN: Capacity Development on Integration of Science and Local Knowledge for Climate Change Impacts and Vulnerability Assessments; **Project Leader:** Dr. Juan PULHIN, jmpulhin@uplb.edu.ph

CIA2009-03-LUN: Climate Change in Eastern Himalayas: Advancing Community-Based Scientific Capacity to Support Climate Change Adaptation; **Project Leader:** Dr. Yin LUN, lun.yin@gmail.com

CIA2009-04-GAOL: Increasing Capacity of Local Scientists for Climate Change Impact and Vulnerability Assessments in Indonesia Archipelagos: Training in In-Situ/Satellite Sea Level Measurements; **Project Leader:** Dr. Jonson Lumban GAOL, jonsonrt@yahoo.com

CIA2009-05-JITPRAPHAI: Building Research Capacity on Assessing Community Livelihood Vulnerability to Climate Change Impacts in Central Viet Nam and the Mekong River Delta; **Project Leader:** Dr. Somrudee JITPRAPHAI, somdeem@yahoo.com

CIA2009-06-DUC: Capacity Development for Adaptation to Climate Change in the Rural Coastal Zone of Viet Nam; **Project Leader:** Dr. Do Minh DUC, ducdm@vnu.edu.vn

CIA2009-07-LOTIA: Capacity Development of the Scientific Community for Assessing the Health Impacts of Climate Change; **Project Leader:** Ms. Hina LOTIA, lotia@lead.org.pk

Approved continued and new projects for funding in 2010/2011

ARCP

ARCP2010-01CMY-Sthiannopkao: Collaborative Research on Sustainable Urban Water Quality Management in Southeast Asian Countries: Analysis of Current Status (comparative study) and Development of a Strategic Plan for Sustainable Development;

Project Leader: Dr. Suthipong STHIANNOPKAO, suthi@gjst.ac.kr; suthisuthi@hotmail.com

ARCP2010-02CMY-Phua: Integrated Prediction of Diptero-carp Species Distribution in Borneo for Supporting Sustainable Use and Conservation Policy Adaptation; **Project Leader:** Dr. Mui How PHUA, pmh@ums.edu.my

ARCP2010-03CMY-Marambe: Vulnerability of Home Garden Systems to Climate Change and its Impacts on Food Security in South Asia; **Project Leader:** Prof. Buddhi MARAMBE, bmarambe@pdn.ac.lk

ARCP2010-04CMY-Wang: Building Asian Climate Change Scenarios by Multi-Regional Climate Models Ensemble; **Project Leader:** Dr. Shuyu WANG, wsy@tea.ac.cn

ARCP2010-05CMY-Luck: The Effects of Climate Change on Pests and Diseases of Major Food Crops in the Asia Pacific Region; **Project Leader:** Dr. Joanne Elizabeth LUCK, jo.luck@dpi.vic.gov.au

ARCP2010-06CMY-Schaefer: Quantifying the Role of Dead Wood in Carbon Sequestration; **Project Leader:** Dr. Douglas SCHAEFER, xiedaoan@xtbg.ac.cn

ARCP2010-07CMY-Bai: Asian Coastal Ecosystems: An Integrated Database and Information Management System (DIMS) for Assessing Impact of Climate Change and its Appraisal; **Project Leader:** Dr. V. Ramani BAI, Ramani-Bai.V@nottingham.edu.my

ARCP2010-08NSY-Freeman: Impact of Climate Change on Food Security and Biosecurity of Crop Production Systems in Small Pacific Nations; **Project Leader:** Dr. Angela FREEMAN, angela.freeman@dpi.vic.gov.au

ARCP2010-09NSY-Patwardhan: Enhancing Adaptation to Climate Change by Integrating Climate Risk into Long-Term Development Plans and Disaster Management; **Project Leader:** Prof. Anand PATWARDHAN, anand@iitb.ac.in

ARCP2010-10NMY-Koike: River Management System Development in Asia Based on Data Integration and Analysis System (DIAS) under the GEOSS; **Project Leader:** Prof. Toshio KOIKE, tkoike@hydra.t.u-tokyo.ac.jp

ARCP2010-11NMY-Asanuma: Intercomparison of Landsurface Process Modelling at Asian Drylands; **Project Leader:** Dr. Jun ASANUMA, asanuma@suiri.tsukuba.ac.jp

ARCP2010-12NMY-Uprety: Community Based Forestry and Livelihoods in the Context of Climate Change Adaptation; **Project Leader:** Dr. Dharam Raj UPRETY, forestaction@wlink.com.np; dharam.uprety@gmail.com

ARCP2010-13NMY-Bae: Climate Change Impact Assessment on the Asia-Pacific Water Resources under AWCI/GEOSS; **Project Leader:** Prof. Deg-Hyo BAE, Sejong University, dhbae@sejong.ac.kr

ARCP2010-14NMY-Li: Analysis on Urban Land-Use Changes and its Impacts on Food Security in Different Asian Cities of Four Developing Countries using Modified Cellular Automata (CA); **Project Leader:** Prof. Jianlong LI, jlli2008@nju.edu.cn; jianlongli@sina.com.cn

ARCP2010-15NMY-Han: The Impact of Spatial Parameters on Greenhouse Gas Emissions: A Comparative Study between Cities in China and India; **Project Leader:** Dr. Sun Sheng HAN, sshan@unimelb.edu.au

ARCP2010-16NMY-Huda: Food Security and Climate Change in the Asia-Pacific Region: Evaluating Mismatch between Crop Development and Water Availability; **Project Leader:** Prof. Samsul HUDA, s.huda@uws.edu.au

ARCP2010-17NMY-Towprayoon: Strategic Rice Cultivation for Sustainable Low Carbon Society Development in Southeast Asia; **Project Leader:** Dr. Sirintornthep TOWPRAYOON, sirin@jgsee.kmutt.ac.th

ARCP2010-18NMY-Lutaenko: Coastal Marine Biodiversity of Viet Nam: Regional and Local Challenges and Coastal Zone Management for Sustainable Development; **Project Leader:** Dr. Konstantin LUTAENKO, lutaenko@mail.primorje.ru; lutaenko@mail.ru

Asia-Pacific Network for Global Change Research (APN)

APN Secretariat, East Building, 4th Floor,

1-5-2 Wakinhama Kaigan Dori, Chuo-ku, Kobe 651-0073, JAPAN

Tel: +81-78-230-8017; Fax: +81-78-230-8018;

Email: info@apn-gcr.org; Website: www.apn-gcr.org