



Asia-Pacific Network for Global Change Research (APN) merupakan rangkaian ahli kerajaan-kerajaan di Asia-Pasifik dengan visi untuk membolehkan negara-negara di rantau ini menyuarakan isu-isu berkaitan perubahan global melalui strategi-strategi dan pengukuran tindakbalas berdasarkan sains, hubungan efektif antara polisi dan sains, serta pembangunan kapasiti saintifik.

Aktiviti-Aktiviti Utama sepanjang 2009/2010

- Panggilan Tahunan Serantau bagi Program Cadangan Penyelidikan (ARCP): menaja/menguruskan **19 projek**
- Program Pembangunan Kapasiti Saintifik/Pengukuhan bagi Pembangunan Lestari di Negara-Negara Membangun (CAPaBLE): menaja/menguruskan **14 projek**
- Panggilan Khas bagi Cadangan-Cadangan Aktiviti Terfokus: Pembangunan Kapasiti Saintifik bagi Kesan Iklim dan Penilaian Ancaman (SCBCIA); menerima **82 cadangan dan menguruskan 7 projek**
- **Panggilan Cadangan Tahunan dan Proses Pertimbangan APN** bagi Tahun 2009 di bawah Program ARCP & CAPaBLE
- Dua-tahun Aktiviti Sintesis - **Iklim di Asia dan Pasifik: gabungan kerja bagi 50 projek iklim APN**
- Mengendali dan menjalankan penilaian 2-peringkat bagi fasa strategik kedua APN (sains/polisi dan institusi) serta memformulasikan Pelan Strategik Ketiga (3SP)
 - Projek-projek tajaan APN secara keseluruhan telah **berjaya memenuhi 5 matlamat utama Fasa Strategik Kedua APN** (projek-projek cemelang dipilih)
 - APN terus berusaha unruk menambahbaik dan mengembangkan interaksinya dengan penggubal polisi dan membuat keputusan, demi **membantu menyediakan asas saintifik yang kukuh bagi membuat keputusan dan menggubal polisi berkaitan perubahan global** di rantau ini.
- **Bhutan** telah diiktiraf sebagai ahli baru APN di Mesyuarat ke-15 *Inter-Governmental (IGM)/Scientific Planning Group (SPG)* dan ini **menjadikan jumlah bilangan negara ahli APN kepada 22**
- Satu **laman web baru APN** telah dilancarkan mulai April 2010 selaras dengan kemasukan APN ke fasa strategik ketiga
- Telah memperkenalkan **Resources Development Strategy** yang telah diiktiraf di Mesyuarat ke -15 *Inter-Govermental (IGM) / Scientific Planning Group (SPG)*
- Dua orang **Programme Fellows** telah menyertai Sekretariat APN (semasa musim luruh) sebagai sebahagian daripada program pembangunan kapasiti APN
- Telah menyumbang kepada proses-proses polisi dan badab-badan seperti *United Nations Framework Convention on Climate Change (UNFCCC)*, *Subsidiary Body for Implementation (SBI)*, *Subsidiary body for Scientific Technological Advice (SBSTA)* dan *the Intergovernmental Panel on Climate Change (IPCC)* melalui **penyelidikan** dan aktiviti pembangunan kapasiti, terutamanya di negara-negara membangun
- Mengutarakan keperluan-keperluan yang telah dikenalpasti oleh *United Nations Commission for Sustainable Development (UNCSD)* dalam memastikan semua aktiviti dan output **mengutamakan isu-isu berkaitan pembangunan mapan** serantau
- Berkomunikasi dan **bekerjasama erat dengan organisasi-organisasi utama di komuniti perubahan global** (global change community) untuk mencapai sasaran bersama, memaksimumkan sumber-sumber yang sedia ada serta memberikan keputusan dan hasil penemuan yang terbaik



Penerbitan-Penerbitan Utama bagi Tahun 2009/2010

APN mengeluarkan penerbitan untuk mehebahkan output daripada projek-projek tajaannya serta menyebarluaskan hasil-hasil penyelidikan kepada komuniti sains dan bukan-sains.

- **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)

Aktiviti-Aktiviti utama yang dianjurkan/dijalankan serta tajaan bersama sepanjang 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 UNCSD 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



Projek-Projek yang diluluskan untuk diteruskan dan projek-projek baru dalam tahun 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-Togtohyn: 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 TOGTOHYN, 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, jamblang@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, lsalinger@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, dhirajmet@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@emeecs.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 hlotia@lead.org.pk

Projek-Projek yang diluluskan untuk diteruskan dan projek-projek baru tajaan bagi tahun 2010/2011

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 STHANNOPKAO, suthi@gist.ac.kr; suthisuthi@hotmail.com

ARCP2010-02CMY-Phua: Integrated Prediction of Dipterocarp 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 (DIMIS) 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, forestation@wlink.com.np; dharam.uprety@gmail.com

ARCP2010-13NMY-Bae: Climate Change Impact Assessment on the Asia-Pacific Water Resources under AWC/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, jli2008@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@igsee.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.primorye.ru; lutaenko@mail.ru

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