

Annual Report

2011-2012















ASIA-PACIFIC NETWORK FOR GLOBAL CHANGE RESEARCH

APN Annual Report 2011-2012

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APN Secretariat

East Building 4F, 1-5-2 Wakinohama Kaigan Dori Chuo-ku, Kobe 651-0073 JAPAN

TEL: +81 78 230 8017; FAX: +81 78 230 8018

Email: info@apn-gcr.org

Website: http://www.apn-gcr.org

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MESSAGE FROM THE DIRECTOR

It is my pleasure to present to you the APN Annual Report 2011-2012.

Fostering collaboration has been central to APN's work towards achieving its strategic goals of supporting research, capacity development and science-policy interactions in the Asia-Pacific region. This year we supported and managed 40 research and capacity-building projects under the core programmes of ARCP and CAPaBLE. Additionally, six focused activities, which are funded through a special call for proposals launched in 2010, entered their second year of implementation with exciting progress being made.

In October 2011, we published a report entitled Climate in Asia and the Pacific: A Synthesis of APN Activities, which summarized the work of over fifty projects funded by APN that have a climate-related element. It is our hope that the report will contribute to the development of policy options to respond to climate vulnerability and impacts, especially in the Asia-Pacific region. The synthesis report forms a solid basis for follow-up work on an academic book detail-

ing the latest developments in the climate research domain in Asia-Pacific, which will be published in 2013.

With tremendous support from members in Viet Nam and Bhutan, we successfully held the fourth sub-regional cooperation meeting for Southeast Asia in July 2011, and the third meeting for South Asia in January 2012. The two groups may have different priorities in terms of global change challenges and research needs, but a commonality is the strong sense of ownership and the active input from our country members that have driven the development of new initiatives to address shared concerns.

This year we organized three Proposal Development Training Workshops in China, Viet Nam and Bhutan respectively, as part of our larger efforts to facilitate young and early-career scientists in enhancing their scientific capacity and establishing professional networks fundamental for their future work.

Just as collaboration is important to our project leaders, so is partnership to APN as

a regional network. In 2011-2012, we continued to build and strengthen partnership with key actors in the global change community, which includes joint implementation of projects that are important to the region, co-designing strategic activities in areas of common interest, and knowledge sharing and networking in major international meetings.

Together with the Hyogo Prefectural Government and other international partners including DIVERSITAS, IHDP and the United Nations University, we organized and supported three international events to share new knowledge on reforestation, environment management of enclosed coastal seas, and studies on the socio-ecological management of satoyama landscapes.

Taking this opportunity, I thanked all national Focal Points, Scientific Planning Group members and invited experts who have been actively supporting APN by sharing their expertise and providing input for the scientific and institutional development of APN.

I would also like to thank the governments of Japan, United States, Republic of Korea, New Zealand, and all other member countries for their support in cash and in kind that made possible what we have achieved so far.

My sincere gratitude also goes to all project leaders and collaborators engaged in the projects implemented in 2011-2012. Last but not least, we are deeply grateful to our partners in the global change research community for their wonderful cooperation and support, and we look forward to further strengthening collaborations with you in the future.



Akio Takemoto, PhD Director, APN Secretariat



HIGHLIGHTS OF 2011-2012

PROJECT MANAGEMENT

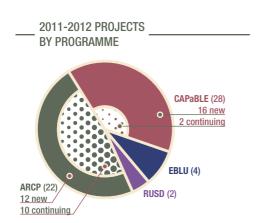
In fiscal year 2011, APN supported and managed 22 regional research projects under the Annual Regional Call for Research Proposals (ARCP) programme and 18 capacity-building projects under the Scientific Capacity Building/Enhancement for Sustainable Development in Developing Countries (CAPa-BLE) programme. In addition, it continues to manage six multi-year projects funded through the 2010 Special Calls for Focused Activities that looked into two aspects of APN's science agenda: 1) Ecosystems, Biodiversity and Land Use, with focus on forestry and REDD+; and 2) Resource Utilization and Pathways for Sustainable Development.

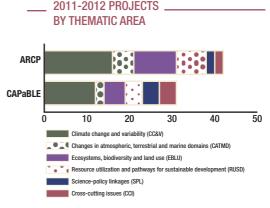
A list of these projects is included in Section 2, "2011-2012 Projects" on page 13.

CALLS FOR PROPOSALS

The 2011 Annual Calls for Proposals under the ARCP and CAPaBLE programmes were launched on 26 May 2011. A total of 95 summary proposals were received, 30 of which, after further development, went through two stages of rigorous screening and review by APN's Scientific Planning Group (SPG) and Capacity Development Committee (CDC) and were approved for funding at the 17th IGM in March 2012.

To facilitate interested proponents, especially those young and aspiring scientists who are seeking collaboration in the region, the APN Secretariat coordinated a round of voluntary advisory service before the summary proposal submission stage, involving APN country members and experts to provide ad-





vice and assistance, including on the appropriate scope of the envisaged activity, potential collaborators, among others.

SYNTHESIS OF APN CLIMATE ACTIVITIES

The release of the synthesis report Climate in Asia and the Pacific: A Synthesis of APN Activities in October 2011 marks a major milestone of APN's synthesis activity on climate-related projects.

The report summarized over fifty scientific research and capacity-building projects funded by APN that have a climate-related element. Contributing authors of the report are leaders in their field and many of them are authors for the Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC AR5).

The report aims to contribute to the development of policy options for appropriate responses to climate vulnerability and impacts, including adaptation and mitigation, which in turn will contribute to sustainable development.

Since its official launch, the report has been brought to the WCRP Open Science Conference in Denver, USA; the COP17/CMP7 of UNFCCC in Durban, South Africa; the Planet Under Pressure conference in London, United Kingdom, and many other major global change events around the world for dissemination among the global change community. The electronic version of this report has recorded over 10,000 downloads as of the date of reporting.

The report is a precursor to an academic book entitled "Climate in Asia and the Pacific: Security, Society and Sustainability" to be published by Springer in 2013 as another key outcome of APN's climate synthesis activity.



56 climate-related projects

13
years of projects
synthesized

98
peer-reviewed papers,
special editions, books
and monographs

70
training manuals, user guides, resource kits and lectures



Courtesy of IISD/Earth Negotiations Bulletin

One of the underpinning goals of APN is to strengthen appropriate interactions among scientists and policy makers, and provide scientific input to decision-making for better-informed policy options. Policy relevance has always been an important criterion for APN in evaluating proposals for funding. In addition, APN has taken active part in international events that promote linkages and interaction among the science and policy-making communities.

UNFCCC COP/CMP AND RELATED WORKSHOPS

APN contributed to multiple science and policy talks hosted by the UNFCCC, taking the opportunities to share knowledge and best practices from a regional perspective, and to engage in a dialogue on issues related to global change research, capacity development and science-policy interfacing mechanisms within the Asia-Pacific region.

SBSTA research dialogue. At the 34th session of the Subsidiary Body for Scientific and Technological Advice (SBSTA 34), Bonn, Germany, June 2011, APN shared its latest work on synthesizing its past and ongoing climate

activities, highlighted lessons learned and key recommendations. APN also introduced the outcomes of its recent gap analysis workshop for biodiversity and ecosystem services, particularly those gaps and potential research themes that have strong links with impacts of climate change.



Loss and damage workshop. APN contributed to the UNFCCC workshop to identify challenges and gaps in the implementation of risk management approaches to the adverse effects of climate change, Lima, Peru, October 2011, which brought together experts from governments, international and regional organizations, and key institutions working on disaster risk management. With solid experience and understanding of adaptation issues at the regional level, APN is well-positioned to improve disaster risk re-

duction through research and capacity development in the Asia-pacific region.

COP17/CMP7 conference. The 17th session of the Conference of the Parties/7th Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol (COP7/CMP7) was held in Durban, South Africa from 28 November to 9 December 2011. This annual round of climate change negotiations drew together over 12,000 participants from governments, UN bodies and agencies, inter-governmental organizations, civil society organizations and the media. In collaboration with Australian National University Climate Change Institute (ANU CCI), APN organized a booth to launch its recently published climate synthesis report.

PLANET UNDER PRESSURE CONFERENCE, LONDON, UNITED KINGDOM



In the lead-up to Rio+20, the United Nations Conference on Sustainable Development, almost 8,000 leading environmental change specialists from around the world from different sectors and various disciplines across the spectrum of natural and social sciences, met at the Planet Under Pressure conference in London to look at global environmental challenges and suggest innovative solutions.

APN hosted an exhibition at the conference, featuring the latest work undertaken by APN-funded projects. In addition, it provided financial support that made possible the participation of over 25 aspiring young and early career scientists to the conference.

SCIENCE-POLICY DIALOGUE ON CHALLENGES OF GLOBAL CHANGE

In cooperation with START International and with tremendous support from APN Southeast Asia Sub-Regional Committee (SEA-SRCom), APN started preparations for a science-policy dialogue on challenges of global change, to be held in 2012.

The forum was expected to bring together leading scientists from the Asia-Pacific region to review advances in global change research and interact with regional policy and practitioner communities. The forum would also explore how knowledge about risks and vulnerability can best be communicated to multiple audiences, including the public and the media, and be integrated into the decision-making process. Contributions from policy makers and practitioners would provide a basis for identifying priority research areas for supporting informed decision-making, capacity-building and outreach activities.



Through the sub-regional approach, APN is able to enhance the flow of information within groups of members that share common challenges and opportunities in global change research, and to strengthen their collaboration with key partners at the sub-regional level.

Sub-Regional Committees meet during intersessional period of the IGM/SPG Meetings to discuss issues of sub-regional importance, identify research priorities for the sub-region, and to explore collaborative opportunities to address such priorities.

3RD SOUTH ASIA SUB-REGIONAL COOPERATION MEETING (SA-SRC)

The meeting was hosted by the National Environment Commission, Royal Government of Bhutan, in Paro, Bhutan from 16–19 January 2012. Participants exchange information on major scientific trends, issues and emerging gaps in each country, especially those related to science-policy interaction and sustainable development. This was followed by a discussion session that aimed to categorize and prioritize these gaps identified. As an outcome of the meeting, a set of potential activities were summarized for future development.



4TH SOUTHEAST ASIA SUB-REGIONAL COOPERATION MEETING (SEA-SRC)

The meeting was hosted by the Institute of Natural Products Chemistry, Viet Nam Academy of Science and Technology in Hanoi, Viet Nam from 25–29 July 2011. Discussions centred on further developing the plans for: (1) The first science-policy dialogue with focus on Southeast Asian countries; (2) A summer school programme on urbanization and climate change adaptation.

SOUTHEAST ASIA CLIMATE DOWNSCALING TRAINING WORKSHOP

Recognizing the need for further region-wide efforts in developing regional climate models and statistical downscaling methods to help localize global climate model results and to quantify the uncertainties associated with these results, the Southeast Asia SRCom organized a downscaling training workshop back-to-back with the 4th SEA-SRC Meeting.

From the basics of global and regional climate models and their application to country-level experience in downscaling experiments and strategies for creating scenarios in the region, experts shared a wealth of knowledge and experience, and catalyzed opportunities for international collaboration within Southeast Asia.

PROPOSAL DEVELOPMENT TRAINING WORKSHOPS

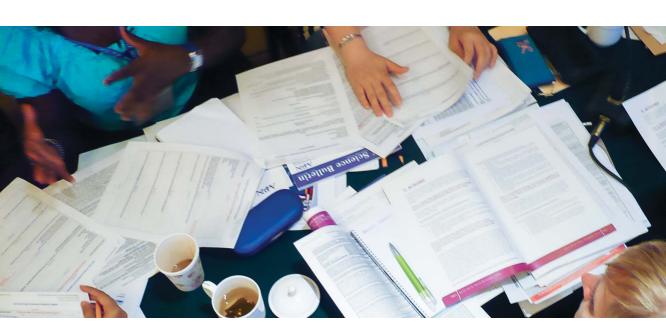
Improving the scientific and technical capabilities of countries in the Asia-Pacific region is among the four goals of APN. Young and early-career scientists, in particular, are APN's focus when working towards attainment of this strategic goal. Since 2008, APN has been regularly conducting Proposal Development Training Workshops in countries within the Asia-Pacific region. Objectives of the workshops are to:

- Raise awareness of APN among young/ early career scientists;
- Increase their capacity to submit competitive proposals to APN;
- Facilitate the exchange of knowledge and experience among APN members.

In fiscal year 2011, APN organized three Proposal Development Training Workshops, two back-to-back with Sub-Regional Cooperation Meetings, and one in Yantai, China as part of the 2011 Young LOICZ Forum, which brought together coastal zone scientists and coastal managers from across the world.



Through these training workshops and in fiscal year 2011 alone, APN has created the enabling environment for learning and networking for 55 young and early-career scientists from 22 countries.



COLLABORATION WITH HYOGO PREFECTURAL GOVERNMENT

Hyogo Prefecture, where the APN Secretariat is located, is home to many international research projects and programmes whose work covers a wide range of areas, including disaster management and prevention, enclosed coastal seas, public health, and global environmental change, among others.

Every year, APN works closely with the Hyogo Prefectural Government and major partners in Hyogo Prefecture to support international collaborative research and public awareness raising activities, contributing to knowledge sharing and information dissemination among the research and policy communities as well as the general public.

SYMPOSIUM AND TRAINING WORKSHOP: REFORESTATION IN MONGOLIA

Ulaanbaatar, Mongolia, 12-14 September 2011

A joint effort by Hyogo Environmental Advancement Association (HEAA) and Mongolian Forest Forum (MOFF) and APN, the symposium-cum-workshop aimed to share knowledge on the impacts and vulnerability of forests and grassland in Mongolia with regard to climate change, forestry, biodiversity, and ecosystem services.

The event attracted over 100 participants from research institutes in Mongolia, Japan and Russia, as well as university students in Mongolia. Invited speakers specialize in various fields such as environmental law, forestry, as well as ecosystem assessment and management.

NINTH INTERNATIONAL MEETING ON THE ENVIRONMENTAL MANAGEMENT OF ENCLOSED COASTAL SEAS (EMECS 9)

Baltimore, Maryland, USA, 28-31 August 2011

The International EMECS Center promotes international exchange on environmental management of enclosed coastal seas across the world. The organization is based in Kobe, Japan, which is situated along the coast of Seto Inland Sea, the largest enclosed coastal sea in Japan.

The purpose of EMECS 9 was to improve our ability to manage enclosed or semi-enclosed coastal seas in all their ecological, economic, and cultural dimensions. The conference worked to cross barriers of discipline and culture by bringing together experts and stakeholders from different backgrounds to share information, insights, and lessons learned. APN provided conference and financial support and hosted an interactive side event with the International EMECS Center.





Courtesy of LIE/IFAS Office of Conferences and Institutes

INTERNATIONAL WORKSHOP: BUILDING RESILIENCE WITH COMMON CAPITAL

Tokyo, Japan, 23-25 January 2012

Satoyama is a Japanese term for a mosaic of different ecosystem types—secondary forests, farm lands, irrigation ponds, and grasslands—along with human settlements, which has been managed to produce bundles of ecosystem services for human well-being. It is a classical illustration of symbiotic interactions between ecosystems and humans.

As a joint initiative by APN, DIVERSITAS, IHDP, UNU-ISP and the Hyogo Prefectural Government, three workshops were planned to bring together a core group of experts from Japan and the international scientific community, to draw on case studies in Japan and other countries in the Asia-Pacific region that have satoyama-type landscapes.

The objectives of the workshops are to identify new governance systems to manage the "new commons", to regulate ecosystem services and to enhance socioecological resilience against climate and ecosystem changes in an efficient and equitable manner across a range of stakeholders.

The first workshop, held in UNU-ISP in Tokyo, Japan in January 2012, brought together a multinational and multidisciplinary team of more than 20 scientists and policy makers to share knowledge and design key outputs and outcomes of the project, which would be implemented by the two future workshops to be held in 2012-2013.





COMMUNICATIONS AND OUTREACH

Revamped website. The APN website was redesigned and launched in July 2011 to improve the experience of locating and accessing information. The new website features better organization and presentation of content, a new calendar of events, a separate section for announcements from the global change community, and RSS subscription feature for all updates.

New email list. A new email list feature was integrated into the new website, allowing users to sign up for APN news alerts more easily. This also enables APN to maintain a database of researchers and disseminate targeted information to a specific group of audience—according to their country and research interest, for example.

Metadata portal. "APN E-Lib" was set up to store information on all completed and ongoing projects, including metadata such as funding level, project leader and collaborator information and research keywords, as well as all project outputs and links to published journal articles. The E-Lib has become an important tool for researchers to review past efforts and to find potential collaborators for their research.

Project outputs and publications are available in the APN E-Lib at: www.apn-gcr.org/resources











2011-2012 PROJECTS

ANNUAL REGIONAL CALL FOR RESEARCH PROPOSALS (ARCP)

ARCP2011- 01CMY-Wang	Building Asian climate change scenarios by multi-regional climate models ensemble	Shuyu Wang, Chinese Academy of Sciences, CHINA	CC&V
ARCP2011- 02CMY-Koike	River management system development in Asia based on data integration and analysis system (DIAS) under the GEOSS	Toshio Koike, The University of Tokyo, JAPAN	CC&V, RUSD, SPL
ARCP2011- 03CMY- Asanuma	Intercomparison of land surface process modelling at Asian drylands	Jun Asanuma, University of Tsukuba, JAPAN	EBLU, CATMD
ARCP2011- 04CMY-Paudel	Community-based forestry and livelihoods in the context of climate change adaptation	Naya Sharma Paudel, ForestAction, NEPAL	CC&V, RUSD
ARCP2011- 05CMY-Bae	Climate change impact assessment on the Asia-Pacific water resources under AWCI/ GEOSS	Deg-Hyo Bae, Sejong University, REPUBLIC OF KOREA	CC&V, RUSD
ARCP2011- 06CMY-Li	Analysis on urban land-use changes and its impacts on food security in different Asian cities of four developing countries using modified CA model	Jianlong Li, Nanjing University, CHINA	EBLU
ARCP2011- 07CMY-Han	The impact of spatial parameters on greenhouse gas emission: a comparative study between cities in China and India	Sun Sheng Han, The University of Melbourne, AUSTRALIA	RUSD, EBLU
ARCP2011- 08CMY-Huda	Food security and climate change in the Asia-Pacific region: evaluating the mismatch between crop development and water availability	Samsul Huda, University of Western Sydney, AUSTRALIA	CC&V, RUSD
ARCP2011- 09CMY- Towprayoon	Strategic rice cultivation for sustainable low carbon society development in Southeast Asia	Sirintornthep Towprayoon, King Mongkut's University of Technology, THAILAND	CC&V, RUSD
ARCP2011- 10CMY- Lutaenko	Coastal marine biodiversity of Viet Nam: regional and local challenges and coastal zone management for sustainable development	Konstantin Lutaenko, Institute of Marine Biology, RUSSIAN FEDERATION	EBLU
ARCP2011- 11NMY-Patra/ Canadell	Greenhouse gas budgets of South and Southeast Asia	Prabir K. Patra, Research Institute for Global Change (JAMSTEC), JAPAN, and Josep Canadell, Global Carbon Project (GCP), AUSTRALIA	CC&V, CATMD



ARCP2011- 12NMY-Fortes	Seagrass-mangrove ecosystems: bio shields against biodiversity loss and impacts of local and global change along Indo-Pacific coasts	Miguel Fortes, University of the Philippines, PHILIPPINES	CC&V, EBLU
ARCP2011- 13NMY-Herath	Developing ecosystem-based adaptation strategies for enhancing resilience of rice terrace farming systems against climate change	Anura Srikantha Herath, United Nation University, JAPAN	CC&V, EBLU
ARCP2011- 14NMY-Salik	Impact of climate change on mangroves ecosystem in South Asia	Kashif Majeed Salik, Global Change Impact Studies Centre (GCISC), PAKISTAN	CC&V, EBLU
ARCP2011- 15NMY-Zhen	Holistic assessment of land-use change and impacts on ecosystem services of wetlands	Lin Zhen, Chinese Academy of Sciences, CHINA	EBLU
ARCP2011- 16NMY-IGBP	An international geosphere-biosphere programme synthesis theme on: global environment change and sustainable development: needs of least developed countries	João M. F. DE Morais, International Geosphere- Biosphere Programme (IGBP)	CCI, SPI
ARCP2011- 17NMY- Mathukumalli	Tracing nitrogen and carbon biogeochemical processes in the inter-tidal mangrove ecosystem (Sundarban) of India and Bangladesh: implications of the global environmental change	Bala Krishna Prasad Mathukumalli, University of Maryland, UNITED STATES	CC&V, EBLU
ARCP2011- 18NMY-Jung	Impacts of global warming on coastal and marine ecosystems in the Northwest Pacific	Sukgeun Jung, National Fisheries Research and Development Institute, REPUBLIC OF KOREA	CC&V, EBLU, CATMD, RUSD
ARCP2011- 19NSY- Koottatep	Affordable sanitation as an adaptive strategy to emerging waterborne diseases due to climate change	Thammarat Koottatep, Asian Institute of Technology, THAILAND	CC&V, CCI
ARCP2011- 20NSY-McEvoy	Assessment of climate change risks and adaptation options for secondary cities in southwestern Bangladesh and central Viet Nam	Darryn McEvoy, Royal Melbourne Institute of Technology University, AUSTRALIA	CC&V
ARCP2011- 21NSY- Manurung	Reconstruction of sea level change in southeast Asia (RESELECASEA) waters using combined coastal sea level data and satellite altimetry data	Parluhutan Manurung, National Coordinating for Survey and Mapping Agency, INDONESIA	CC&V, CATMD
ARCP2011- 22NSG-Liu	The impact of global warming on ocean- atmosphere feedback strength at tropical Indian Ocean	Lin Liu, First Institute of Oceanography, CHINA	CC&V, CATMD

- CC&V: climate change and climate variability
 EBLU: ecosystems, biodiversity and land use
- **CATMD**: changes in atmospheric, terrestrial and marine domains
- RUSD: resource utilization for sustainable development
 SPL: science-policy linkages
- **CCI**: cross-cutting issues

SCIENTIFIC CAPACITY BUILDING/ENHANCEMENT FOR SUSTAINABLE DEVELOPMENT IN DEVELOPING COUNTRIES (CAPable)

CBA2011- 01CMY-Kawai	Capacity-building of biodiversity research in the coastal zones of the Asia-Pacific region: phycology taxonomy analysis training using genetic marker	Hiroshi Kawai, Kobe University, JAPAN	EBLU
CBA2011- 02CMY- Kaihotsu	Drought monitoring system development by integrating in situ data, satellite data and numerical model output	Ichirow Kaihotsu, Hiroshima University, JAPAN	CC&V, RUSD
CBA2011- 03NSY-WCRP	WCRP Open Science Conference: climate research in service to society	Guoxiong Wu, Chinese Academy of Science, CHINA	CC&V
CBA2011- 04NSY-IHDP	IHDP training workshops on Asian development pathways in the context of transitions towards a green economy	Anantha Kumar Duraiappah, International Human Dimensions Programme (IHDP)	CCI, SPL
CBA2011- 05NSY-Schang	National dialogues on adapting biodiversity management to climate change	Scott Schang, Environmental Law Institute, UNITED STATES	CC&V, EBLU, SPL
CBA2011- 06NSY-LOICZ	Young LOICZ Forum 2011: capacity-building in the Asia-Pacific region	Cheng Tang, Chinese Academy of Sciences, CHINA	CATMD, CCI
CBA2011- 07NMY-Abawi	Building scientific capacity in seasonal climate forecasting (SCF) for improved risk management decisions in a changing climate	Yahya Abawi, Bureau of Meteorology, AUSTRALIA	CC&V
CBA2011- 08NSY-Baker	Towards engagement in the United Nations regular process for global assessment of the marine environment: strengthening capacity of developing countries in the seas of East Asia	Elaine Baker, UNEP GRID- Arendal/The University of Sydney, AUSTRALIA	CCI, SPL
CBA2011- 09NSY-Aligaen	Climate change integrated education model: building adaptive capacity for the next generation	Julito C. Aligaen, Regional Centre for Education in Science and Mathematics, MALAYSIA	CC&V, CCI
CBA2011- 10NSY-Ngari	International workshop on climate and oceanic fisheries	Arona Ngari, Cook Islands Meteorological Service, COOK ISLANDS	CC&V, CATMD, RUSD
CBA2011- 11NSY- Tienhaara	Climate change governance in the Asia- Pacific region: agency, accountability and adaptativeness	Kyla Tienhaara, Australian National University, AUSTRALIA	CC&V
CBA2011- 13NSY- Tolentino	Institutionalizing agroforestry as a climate change adaptation strategy through local capacity and policy development in Southeast Asia	Lutgarda Tolentino, Philippine Agroforestry Education and Research Network, PHILIPPINES	EBLU
CBA2011- 14NSY-Ng	Water safety from source to tap—strategies and implementations	How Yong Ng, National University of Singapore, SINGAPORE	CC&V

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CBA2011- 15NSY-Wagan	Capability enhancement of the local experts from state universities and colleges in assessing climate change vulnerability and adaptive capacity of crop-based farming systems in various agroecological settings	Amparo M. Wagan, University of the Philippines Los Baños, PHILIPPINES	CC&V, RUSD
CBA2011- 16NSY-Li	Demonstration study on advancing global change research approaches based on inter- agency collaboration and data infrastructure of GENESI and GeoBrain	Guoqing Li, The Centre for Earth Observation and Digital Earth, CHINA	EBLU, RUSD
CBA2011- 17NSG-Devy	Building partnerships for developing a south Asian canopy science research programme	M. Soubadra Devy, Ashoka Trust for Research in Ecology and the Environment, INDIA	CC&V, EBLU
CBA2011- 18NSY-Peñalba	Awareness raising and capacity building on alternative water management for communal irrigator's association in the Philippines	Linda Peñalba, University of the Philippines Los Baños, PHILIPPINES	CC&V, SPL
CRP2011- 01CMY-Pereira	Strengthening capacity for policy research on mainstreaming adaptation to climate change in agriculture and water sectors	Joy Jacqueline Pereira, Universiti Kebangsaan Malaysia (UKM), MALAYSIA	CC&V

FOCUSED ACTIVITIES: ECOSYSTEMS, **BIODIVERSITY AND LAND USE (EBLU)**

EBLU2011- 01CMY(R)-Takeuchi	Critical analysis of effectiveness of REDD+ for forest communities and shifting cultivation based on lessons learned from conservation efforts in Laos and Thailand	Kazuhiko Takeuchi, United Nations University, JAPAN
EBLU2011- 02CMY(C)-Skole	Developing an MRV system for REDD+: scaling up from project level to a national level REDD+ MRV systems for Laos and Viet Nam	David L. Skole, Michigan State University, UNITED STATES
EBLU2011- 03CMY(C)-Sekiya	Capacity building of ALOS satellite data to support mapping and monitoring deforestation and degradation in Indonesia	Tomotaka Sekiya, Remote Sensing Technology Center of Japan (RESTEC), JAPAN
EBLU2011- 04CMY(R)- Scheyvens	Participatory approaches to forest carbon accounting to mitigate climate change, conserve biodiversity, and promote sustainable development	Henry Scheyvens, Institute for Global Environmental Strategies (IGES), JAPAN

FOCUSED ACTIVITIES: RESOURCE UTILIZATION AND PATHWAYS FOR SUSTAINABLE DEVELOPMENT (RUSD)

RUSD2011- 01CMY(C)-Sun	Assessment and promotion of Japanese strategies and techniques for biomass use in countryside of China — concentrating on agricultural straw residue	
RUSD2011- 02CMY(R)-Surjan	Advancing locally based green practices to realize establishment of sound material cycle society in Asian cities	Akhilesh Surjan, United Nations University, JAPAN

LIST OF MAJOR EVENTS

Below is a list of events from April 2011 to March 2012 that are solely or jointly organized by APN, or in which it has taken active part.

April 2011	
Greenhouse 2011	Cairns, Australia
APN 16th IGM/SPG Meetings	Colombo, Sri Lanka
Rio+20 Regional Workshop for Asia and the Pacific	Kuala Lumpur, Malaysia
June 2011	
Workshop on Research and Systematic Observations to Discuss Policy-Science Interactions	Bonn, Germany
34th Session of the Subsidiary Body for Scientific and Technological Advice (SBSTA)	Bonn, Germany
UNESCO Science Meeting on IPBES	Paris, France
July 2011	
International Forum for Sustainable Asia and the Pacific (ISAP) 2011	Yokohama, Japan
APN 4th Southeast Asia Sub-Regional Cooperation Meeting, Downscaling Workshop and Proposal Development Training Workshop	Hanoi, Viet Nam
August 2011	
EMECS 9	Baltimore, United States
September 2011	
LOICZ Young Scientist Forum and APN Proposal Development Training Workshop	Yantai, China
HEAA Symposium and Training Workshop on Forest Restoration	Ulaanbaatar, Mongolia
International Symposium on Costs and Benefits	Kuala Lumpur,

Malaysia

of REDD+: What, Whose, How and When?

















October 2011	
APN 19th Steering Committee Meeting	Phnom Penh, Cambodia
UNFCCC Workshop: Gaps and Challenges in Risk Management Approaches in the Face of Climate Impacts	Lima, Peru
APN Follow-up Meeting on Climate Synthesis	Kobe, Japan
WCRP Open Science Conference	Denver, United States
2nd Climate Change Adaptation Forum	Bangkok Thailand
November 2011	
Sustainable Urban Water Quality Management in Southeast Asia: Implementation of Research Development Tools	Bangkok, Thailand
17th UNFCCC COP/MOP7 and Related Meetings and Side Events	Durban, South Africa
January 2012	,
APN 3rd South Asia Sub-Regional Cooperation Meeting and Proposal Development Training Workshop	Paro, Bhutan
First workshop on Building Resilience with Common Capital	Tokyo, Japan
February 2012	
Global Carbon Project (GCP) Workshop	Tokyo, Japan
March 2012	
APN 17th IGM/SPG Meetings	Jakarta, Indonesia
Beyond Carbon: Ensuring Justice and Equity of REDD+ Across Levels of Governance	Oxford, United Kingdom
Planet Under Pressure Conference	London, United Kingdom

PUBLICATIONS

SELECTED PROJECT OUTPUTS

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APN REPORTS AND PROCEEDINGS

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VOICES FROM YOUNG SCIENTISTS

Following are a number of selected feedbacks from young scientists involved in major APN capacity-building activities during the reporting period.

APN fully recognizes the importance of engaging young and early career scientists especially from developing countries in the region. Each year, APN supports hundreds of aspiring young researchers from the Asia-Pacific through various programmes and projects that aim to transfer scientific knowledge, share practical skills and build professional networks, all of which are crucial for their career development.



II find the training contents very useful to me. Through the workshop I became familiar with the working principles of new DNA sequencing methods and tools, and undoubtedly I will be able to get better results when using the same techniques in the future. Equally importantly, the programme helped build up a network among researchers for information exchange. Trainees meet and get on well with each other throughout the training program. So it should be possible for us to share taxonomical information in the near future."

Tsz Yan NG, The Chinese University of Hong Kong, China

(Tsz Yan is among the 12 trainees from Cambodia, China, Indonesia, Malaysia, Thailand and Viet Nam that participated in this 10-day workshop under APN project CBA2011-01CMY-Kawai held in Kobe, Japan. The workshop provided practical training on investigation techniques for molecular phylogenetic analyses.)



or me as a PhD student, the conference was the first real chance to present my research to a truly international scientific community. $% \left(\frac{1}{2}\right) =\left(\frac{1}{2}\right) \left(\frac{1}{2}\right$ During the conference I found good ideas, learned new knowledge and generated even more enthusiasm for my research. My sincere appreciation goes to APN and WCRP who made possible my participation at the conference."

Natalia D. Tilinina, P.P. Shirshov Institute of Oceanology, Moscow, **Russian Federation**

Natalia presented two posters at the WCRP Open Science Conference in Denver, United States in October 2011 and one of them won the best poster presentation award. Like that of 23 other young scientists from the Asia-Pacific region, Natalia's participation was fully sponsored by APN through CAPaBLE project CBA2011-03NSY-WCRP.

t is very timely and important to conduct a training programme on the application of water safety plans, as Sri Lanka does not have enough practical experiences on applying such concepts. Understandings on hazard identification in distribution system and at household level are important and provide a solid basis to evaluate the consumer impacts of a water safety plan from a sociological perspective."



N. I. Wickramasinghe, Senior Sociologist, National Water Supply and Drainage Board, Sri Lanka

Wicky provided substantial input as a social scientist to the trainings delivered through this project on the development of water safety plans (**CBA2011-14NSY-Ng**). A key objective of this project was to facilitate the transfer of knowledge related to ensuring the delivery of safe water through sustainable means.

would like to thank APN for the funding support and for giving me the opportunity to be one of the participants to the LOICZ-YLF conference-workshop. Thanks also to the support staff who cheerfully and patiently assisted us in our daily adventures in Yantai, China. To my fellow participants, thank you for the friendship and for brilliant ideas you have shared during discussions. I am grateful to our mentors who were very knowledgeable and to each one of them who effectively delivered relevant information on their respective expertise. It was a great learning experience for me to join a global network of young and seasoned scientists.



After this conference-workshop I am looking forward to take the opportunities to initiate collaboration between APN and with my home institution, the University of the Philippines Visayas, which serves as center of excellence for fisheries and ocean sciences in the country."

Shiela Villamor, Kagoshima University, Japan

Shiela participated in the Young LOICZ Forum 2011 held in Yantai, China, which was an intensive week for coastal scientists and managers from around the world. The forum started with a Proposal Development Training Workshop organized by APN, which was followed by cross-disciplinary lectures and practical exercise that helped develop skills and establish networks that are vital for their future careers. APN provided supported the participation of young scientists to this event through project CBA2011-06NSY-LOICZ.



THE MITRA AWARD FOR GLOBAL CHANGE RESEARCH

The Mitra Award for Global Change Research was established in 2010 in memory of Dr. Ashesh Proshad Mitra, APN SPG Member for India from 1996 to 2007. Dr. Mitra was a doyen in atmospheric research in India, and was recipient of the Padma Bhushan award by the Indian government in recognition of his distinguished service to the nation in the field of scientific research.

Dr. Mitra's diligent and impeccable work for the APN was instrumental in the formulation of a strong and effective scientific agenda that has successfully led to the international recognition that APN is held today in global change research.

The award recognizes outstanding young scientists conducting global change research in Asia-Pacific region. It is presented in conjunction with the annual APN IGM/SPG Meetings, where a poster session is organized and the winner is selected by SPG members, nFPs and other esteemed members of the science and policy communities.



WINNERS OF THE MITRA AWARD

- Evi Gusmayanti (2012), Centre for Wetlands People and Biodiversity, Universitas Tanjungpura, Indonesia: Natural Properties of Carbon Stock in Customary Peat Forest at Danau Sentarum National Park, West Kalimantan, Indonesia
- * W.G.D. Lakmini (2011), Faculty of Agriculture, University of Ruhuna, Sri Lanka: Plant mediator to tackle climate change
- Woo-Seop Lee (2010), Department of Atmospheric Sciences, Kongju National University, Republic of Korea: The relationships between absorbing aerosols and snow cover/snow water equivalent over the Himalayas and the western Tibetan Plateau during boreal spring

PEOPLE IN APN

The Inter-Governmental Meeting (IGM) is the main decision-making body of APN. It consists of national Focal Points (nFPs) appointed by Member Country governments. The IGM approves APN's programmes of work and annual budget based on recommendations from the Scientific Planning Group (SPG). The Steering Committee (SC) acts on behalf of the IGM and provides guidance to the Secretariat on scientific, policy and institutional matters. The lists below are current at the time of publication.



NFP AND SPG MEMBERS

COUNTRY	nFP	SPG Member	
AUSTRALIA	(Identifying nominees is in progress)		
BANGLADESH	Faiz AHMED	Md. Giashuddin MIAH	
	Ministry of Environment and Forests	Bangabandhu Sheikh Mujibur Rahman Agricultural University	
BHUTAN	Peldon TS	SHERING	
	National Environ	ment Commission	
CAMBODIA	Sundara SEM	Veasna KUM	
	Ministry of Environment	Zaman University	
CHINA	Chengyong SUN	Wenjie DONG	
	Ministry of Science and Technology	Beijing Normal University	
FIJI	(Identifying nomi	nees is in progress)	
INDIA	Subodh SHARMA	B.N. GOSWAMI	
	Ministry of Environment and Forests	Indian Institute of Tropical Meteorology	
INDONESIA	Hendra SETIAWAN	Erna Sri ADININGSIH	
	Ministry of Environment	National Institute of Aeronautics and Space	
JAPAN	Hiroshi TSUJIHARA	Kensuke FUKUSHI	
	Ministry of the Environment	The University of Tokyo	
LAO PEOPLE'S	Sangkhane THIANGTHAMMAVONG	Bounyaseng SENGKHAMMY	
DEMOCRATIC REPUBLIC	Ministry of Natural Resources and Environment	Ministry of Natural Resources and Environment	
MALAYSIA	Che Gayah ISMAIL	Subramaniam MOTEN	
	Ministry of Science, Technology and Innovation	Malaysian Meteorological Department	
MONGOLIA	Bayarbat DASHZEVEG	Tsogtbaatar JAMSRAN	
	Ministry of Nature, Environment and Tourism	Mongolian Academy of Sciences	

COUNTRY	nFP	SPG Member
NEPAL	Gokarna Mani DUWADEE	Madan Lall SHRESTHA
	Ministry of Science, Technology and Environment	Academy of Science and Technology
NEW ZEALAND	(Identifying nominees is in progress)	Andy REISINGER
		New Zealand Agricultural Greenhouse Gas Research Centre
PAKISTAN	Syed Mujtaba HUSSAIN	Amir MUHAMMED
	Ministry of Environment	National University of Computer and Emerging Sciences
PHILIPPINES	Eriberto C. ARGETE	Marcial C. AMARO Jr.
	Department of Environment and Natural Resources	Department of Environment and Natural Resources
REPUBLIC OF	Kyeong Yun JEONG	Soojeong MYEONG
KOREA	Ministry of Environment	Korea Environment Institute
RUSSIAN	Andrey V. ADRIANOV	Alexander STERIN
FEDERATION	Russian Academy of Sciences	Russian Research Institute for Hydrometeorological Information – World Data Center
SRI LANKA	B. M. U. D. BASNAYAKE	S. H. KARIYAWASAM
	Ministry of Environment	Department of Meteorology
THAILAND	Chote TRACHU	Jariya BOONJAWAT
	Ministry of Natural Resources and Environment	Chulalongkorn University
UNITED STATES	Maria UHLE	Luis M. TUPAS
OF AMERICA	National Science Foundation	United States Department of Agriculture
VIET NAM	Xuan Bao Tam NGUYEN	Kim Chi NGO
	Ministry of Natural Resources and Environment	Vietnam Academy of Science and Technology



STEERING COMMITTEE

Elected Members	Peldon TSHERING	nFP for Bhutan
	Chengyong SUN	nFP for China
	Hendra SETIAWAN	nFP for Indonesia
	Gorkana Mani DUWADEE	nFP for Nepal
	B. M. U. D. BASNAYAKE	nFP for Sri Lanka
Host of the 19th IGM/SPG Meeting	Sundara SEM	nFP for Cambodia
Ex Officio Members	Alexander STERIN	SPG Member for Russian Federation
	Luis M. TUPAS	SPG Member for United States of America
	Hiroshi TSUJIHARA	nFP for Japan
	Kyeong Yun JEONG	nFP for Republic of Korea
	Maria UHLE	nFP for United States of America
Co-opted Members	Louis BROWN	International Cooperation in Global Change Research, United States
	Roland J. FUCHS	East West Center, United States
	Andrew MATTHEWS	National Commission for UNESCO, New Zealand
	Kazuhiko TAKEMOTO	United Nations University, Japan

SPG SUB-COMMITTEE

Alexander STERIN	SPG Member for Russian Federation
Luis M. TUPAS	SPG Member for United States of America
Kensuke FUKUSHI	SPG Member for Japan
Jariya BOONJAWAT	SPG Member for Thailand
Amir MUHAMMED	SPG Member for Pakistan

CAPACITY DEVELOPMENT COMMITTEE

Alexander STERIN	SPG Member for Russian Federation
Luis M. TUPAS	SPG Member for United States of America
Andrew MATTHEWS	National Commission for UNESCO, New Zealand
Roland J. FUCHS	East West Center, United States
Srikantha HERATH	United Nations University, Japan
Harini NAGENDRA	Ashoka Trust for Research in Ecology and the Environment, India
Hiroshi TSUJIHARA	nFP for Japan

INVITED EXPERTS TO THE SPG

AILIKUN	International Program Office of Monsoon Asia Integrated Regional Study (MAIRS)
Congbin FU	Temperate East Asia Regional Committee for START (TEACOM)
Lance Clive HEATH	Australian National University Climate Change Institute
Kanayathu Chacko KOSHY	Centre for Global Sustainability Studies, Universiti Sains Malaysia
Chao Han LIU	Southeast Asia Regional Committee for START (SARCS)

SECRETARIAT

Akio TAKEMOTO	Director
Yukihiro IMANARI	Head, Division of Development and Institutional Affairs
Linda Anne STEVENSON	Head, Division of Communication and Scientific Affairs
Masayuki ISHIZU	Head, Division of Administrative Affairs
Xiaojun DENG	Programme Officer for Communications and Development
Taniya KOSWATTA	Coordinator
Erdenesaikhan NYAMJAV	Programme Officer for Scientific and Institutional Affairs
Chieko KODAMA	Administrative Officer
Christmas DEGUZMAN	Programme Fellow for Scientific and Institutional Affairs
Natsuki NIIMI	Support Staff (part-time)
Yayoi NAGAOKA	Support Staff (part-time)

FINANCIAL RESOURCES

Statement of income and expenditures fiscal year 2011 (1 April 2011 to 31 March 2012)

RESOURCES AVAILABLE (US\$)

Operative assets from the previous fiscal year		231,000
Donor contributions		
Japan	Ministry of the Environment	
	Hyogo Prefectural Government	
United States	National Science Foundation	3,391,000
	United States Global Change Research Program	
New Zealand	Ministry for the Environment	
Republic of Korea	Ministry of Environment	

Total resources available 3,622,000

USE OF RESOURCES (US\$)

Category	Executed & Committed
Scientific, policy and institutional activities	3,404,500
Administrative/operative costs	122,000
Reimbursement for services	72,000
Total use of resources	3,598,500

BREAKDOWN IN THE
USE OF RESOURCES

Focused activities
IGM/SC/SRC meetings
Hyogo activities
Posts &
programme
fellowship
Other workshops, forums,
publications, etc.

IN-KIND CONTRIBUTION AND MATCHING FUNDS

APN expresses special gratitude to its 22 member country governments, and the Hyogo Prefectural Government that hosts APN Secretariat in Kobe, Japan, for their in-kind contributions including staff time, equipment, supplies and other forms of support.

Additionally, nFPs, SPG Members and invited experts spend considerable time on activities directly related to APN, including hosting and participating in APN meetings; reviewing proposals, science activities and agendas; regularly communicating with the

Secretariat on strategic issues, and promoting APN at various levels within and outside of the Asia-Pacific region.

The Hyogo Prefectural Government generously supports the Secretariat by providing office space and fixtures, etc. This in-kind support amounts to more than US\$ 500,000 per year.

Furthermore, APN receives substantial inkind support and additional resources in the form of matching funds from the institutions of project leaders and collaborators.

ACKNOWLEDGEMENT

APN acknowledges the following partner organizations for their strong support and active collaboration in implementing APN's programme of work throughout fiscal year 2011–2012.

ANU Climate Change Institute (ANU CCI), Canberra, Australia · Asia Pacific Adaptation Network (APAN), Bangkok, Thailand · Asian Water Cycle Initiative (AWCI), Tokyo, Japan · Secretariat of the Pacific Regional Environment Programme (SPREP), Apia, Samoa · DIVERSITAS, Paris, France · Group on Earth Observations (GEO), Geneva, Switzerland · Hyogo Environmental Advancement Association (HEAA), Kobe, Japan · ICSU Regional Office for Asia and the Pacific (ICSU ROAP), Kuala Lumpur, Malaysia · International EMECS Center, Kobe, Japan · International Geosphere-Biosphere Programme (IGBP), Stockholm, Sweden · Institute for Global Environmental Strategies (IGES), Hayama, Japan · International Human Dimensions Programme on Global Environmental Change (IHDP), Bonn, Germany · International Research Network for Low-Carbon Societies (LCS-RNET), Hayama, Japan · Land-Ocean Interactions in the Coastal Zone (LOICZ), Geesthacht, Germany · START International, Washington DC, USA · SEA-START, Bangkok, Thailand · UNU Institute for Sustainability and Peace (UNU-ISP), Tokyo, Japan · World Climate Research Programme (WCRP), Geneva, Switzerland



ANU CCI	Australian National University Climate Change Institute	JAMSTEC	Japan Agency for Marine-Earth Science and Technology
APAN	Asia Pacific Adaptation Network	LCS-RNET	International Research Network for Low- Carbon Societies
APN	Asia-Pacific Network for Global Change Research	LOICZ	Land-Ocean Interactions in the Coastal Zone
ARCP	Annual Regional Call for Research Proposals	MOFF	Mongolian Forest Forum
AWCI	Asian Water Cycle Initiative	nFP	National Focal Point
CAPaBLE	Scientific Capacity Building/Enhancement for Sustainable Development in Developing Countries	PDTW	Proposal Development Training Workshop
CDC	Capacity Development Committee	REDD	Reducing emissions from deforestation and forest degradation
DIAS	Data Integration and Analysis System	Rio+20	United Nations Conference on Sustainable Development
EBLU	Ecosystems, Biodiversity and Land Use	RESTEC	Remote Sensing Technology Center of Japan
EMECS	Environmental Management of Enclosed Coastal Seas	RUSD	Resource Utilization and Pathways for Sustainable Development
ENSO	El Niño-Southern Oscillation	SCBCIA	Scientific Capacity Building for Climate Impact and Vulnerability Assessments
GCISC	Global Change Impact Studies Centre	SBSTA	Subsidiary Body for Scientific and Technological Advice
GCP	Global Carbon Project	SC	Steering Committee
GEO	Group on Earth Observations	SPG	Scientific Planning Group
HEAA	Hyogo Environmental Advancement Association	SPREP	Secretariat of the Pacific Regional Environment Programme
IHDP	International Human Dimensions Programme on Global Environmental Change	SRC	Sub-Regional Cooperation
IPBES	Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services	SRCom	Sub-Regional Committee
IPCC	Intergovernmental Panel on Climate Change	START	SysTem for Analysis Research and Training
ICSU	International Council for Science	UNESCO	United Nations Educational, Scientific and Cultural Organization
IGBP	International Geosphere-Biosphere Programme	UNFCCC	United Nations Framework Convention on Climate Change
IGES	Institute for Global Environmental Strategies	UNU-ISP	United Nations University Institute for Sustainability and Peace
ISAP	International Forum for Sustainable Asia and the Pacific	WCRP	World Climate Research Programme

The Asia-Pacific Network for Global Change Research (APN) is a network of 22 member country governments that promotes global change research in the region, increases developing country involvement in that research, and strengthens interactions between the science community and policy makers.











