



To enable forests to meet diverse human needs in a sustainable way, close international cooperation in forest science and related disciplines is crucial – this is where APN's niche lies.

The Asia-Pacific Network for Global Change Research (APN) has been funding for several years a wide variety of forestry-related projects in the region. It has supported around **25 projects on 'Forestry'** and has provided over **US\$ 1.3 million** for both research and capacity development activities to ensure sustainable forestry in the future. This bulletin highlights selected forestry-related projects under APN's scientific research (ARCP) and scientific capacity development (CAPaBLE) programmes.



*"How and by whom forests are governed is what really matters to the people who live in and near them, or otherwise benefit from them."
- Critical States, 2009.*

In addition to the forestry-related projects that APN has supported, it also conducted a synthesis of APN-funded research activities focussed on understanding land-use and land-cover change (LUCC) as an agent of global change in Asia and the Pacific. APN is also currently screening **proposals for funding** under the focus topic: Reducing Emissions from Deforestation and Forest Degradation, Conservation of Forest Carbon Stocks, Sustainable Management of Forests, and Enhancement of Forest Carbon Stocks (**REDD+**).

Completed CAPaBLE Forestry-related Projects

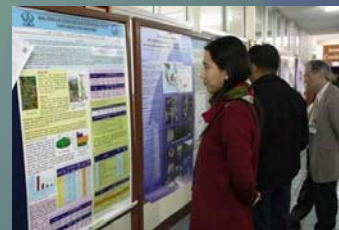
Training in Science-Policy Interfacing to Promote the Application of Scientific Knowledge on Adaptation of Forests and Forest Management to Climate Change; Project Leader: Prof. Tohru NAKASHIZUKA



- Improved understanding of the concepts, methods, and best practices on how to work effectively at the interface of forest science and forest policy
- Better insights into the nature and impacts of successes and failures of science-policy interactions, thus being able to incorporate these experiences into own research work
- Obtaining state-of-the-art scientific knowledge on climate change research and its impact on forests and forest management worldwide
- Strengthening communication and research cooperation through The Global Network for Forest Science Cooperation (IUFRO)

Regional Participation in the USA-Japan Workshop on Monsoon Asia Tropical Forest Carbon Dynamics and Sustainability; Project Leader: Dr. Dennis DYE

- Built regional capacity for identifying, understanding and predicting changes in carbon cycling in forest ecosystems in tropical Monsoon Asia and their relation to climate variability/change and human activities such as deforestation and biomass burning
- Provided participants with a venue to discuss and learn more about carbon dynamics in tropical forests and its relation to local human activities
- Identified and recommended research priorities and specific plans to engage in issues addressing both natural and anthropogenic dimensions of tropical forest carbon dynamics in the Monsoon Asia Region



Scaling-Up Agroforestry Promotion Towards Mitigating Climate Change in Southeast Asia;

Project Leader: Dr. Orlando ALMOITE

- Enhanced partnership development and collaboration among the Southeast Asian Network for Agroforestry Education (SEANAPE) member countries and provided avenues for information exchange and knowledge sharing
- Developed a policy brief to further increase awareness among various stakeholders on the potential role of agroforestry in climate change mitigation and adaptation
- Guided the policy-making bodies of various government institutions in sound decision-making as regards implementation and adoption of public policies towards climate change mitigation, in line with: (i) integration of climate change concepts in the education curricula at all levels and in the policy processes (environmental and agricultural sectors) at the national and local governments level; and (ii) incorporation of agroforestry in various public policies of the forestry, agricultural and environmental sectors



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



Carbon Financial Markets, Rural Poverty, and Global Climate Change in Southeast Asia – Scoping Workshop, Training and Project Site Development; Project Leader: Dr. David SKOLE

- Developed technical capacity of participants from Cambodia, Lao PDR, Thailand, and Viet Nam in carbon cycle science, carbon financial markets, and measuring, monitoring and managing forest-related carbon projects
- Identified potential sites in four countries to develop small-holder forestry and agroforestry community carbon sequestration pilot projects

Collaborative Studies in Tropical Asian Dendrochronology: Addressing Challenges in Climatology and Forest Ecology; Project Leader: Dr. Nestor BAGUINON

- Investigated and documented tree species with annual rings in per-humid and humid tropics to expand the existing network of tree species for climate and ecological studies
- Emphasised that increase of tree species for dendrochronology will cover greater geographic space and together with other meteorological data, the spatially expanded tree ring data would increase information detail for the development of a high resolution climate model for the region
- Developed a project website: <http://apnssead.tk/>



Developing Small-holder Agroforestry Carbon Offset Protocols for Carbon Financial Markets – Twinning Sustainable Livelihoods and Climate Mitigation; Project Leader: Dr. David SKOLE

- Developed small-holder agroforestry protocols for the Chicago Climate Exchange working directly with farmers and communities in Lao PDR, Thailand, and Viet Nam
- Developed technical capacity and implemented small-holder agroforestry carbon pilot activities in three countries to address climate change issues related to land-use change and sustainable development
- Created a working prototype of the Internet-enabled carbon offset management (MRV) system at www.carbon2markets.org

Assessment of the Role of Community Forests (CFs) in CO₂ Sequestration, Biodiversity, and Land-Use Change; Project Leader: Dr. Chinta Mani GAUTAM

- Raised awareness of community forest user groups (CFUGs) and other related stakeholders on the benefits of CFs in terms of ecosystem services and carbon trading in addition to the silvicultural practices and social equity
- Outcomes included: 1) A CF operational plan including action plan and management strategy; 2) Guidelines to operate particular CFs; 3) Support for policy and planning; and 4) Strengthened decision-making process of user and management authorities



Ongoing **ARCP** and **CAPaBLE** Forestry-related Projects

- *Temperature Sensitivity of Soil CO₂ Efflux as Altered by Rubber Tree Plantations in Southeast Asia*; Project Leader: Dr. Xiaoming ZOU
- *Integrated Prediction of Dipterocarp Species Distribution in Borneo for Supporting Sustainable Use and Conservation Policy Adaptation*; Project Leader: Dr. Mui How PHUA
- *Quantifying the Role of Dead Wood in Carbon Sequestration*; Project Leader: Dr. Douglas SCHAEFER
- *Community Based Forestry and Livelihoods in the Context of Climate Change Adaptation*; Project Leader: Dr. Dharam Raj UPRETY

The APN is a network of 22 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.

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