



Asia-Pacific Network for Global Change Research

# WHAT IS APN?

- 🌐 Inter-governmental Network to foster **global change research** in the Asia-Pacific region
- 🌐 Established in '96 as a result of the '90 White House Conference on Science & Economics Research Related to Global Change
- 🌐 22 Member countries
- 🌐 Full time Secretariat in Kobe, Japan since '99
- 🌐 Major activities
  - ✓ Funding research projects (ARCP)
  - ✓ Funding capacity building projects (CAPaBLE)
  - ✓ Science-policy linkages

## What do we mean by “Global Change”?

- 🌍 The set of natural and human-induced changes in the Earth; in its physical and biological systems that, when aggregated, are significant at a global scale.....
- 🌍 **Global Change Research** is research regarding global change and its implications for sustainable development in the Asia-Pacific region

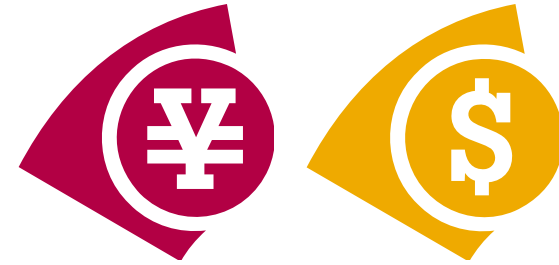
# APN MEMBER COUNTRIES



 Pacific Island Countries and Singapore are approved countries whose scientists are eligible to receive funding under APN awards.

# FINANCIAL RESOURCES

The APN is sponsored by the governments of:



- Japan (Ministry of the Environment and Hyogo Prefecture)
- New Zealand (Ministry for the Environment)
- Republic of Korea (Ministry of Environment)
- United States of America (National Science Foundation, US Global Change Research Program)

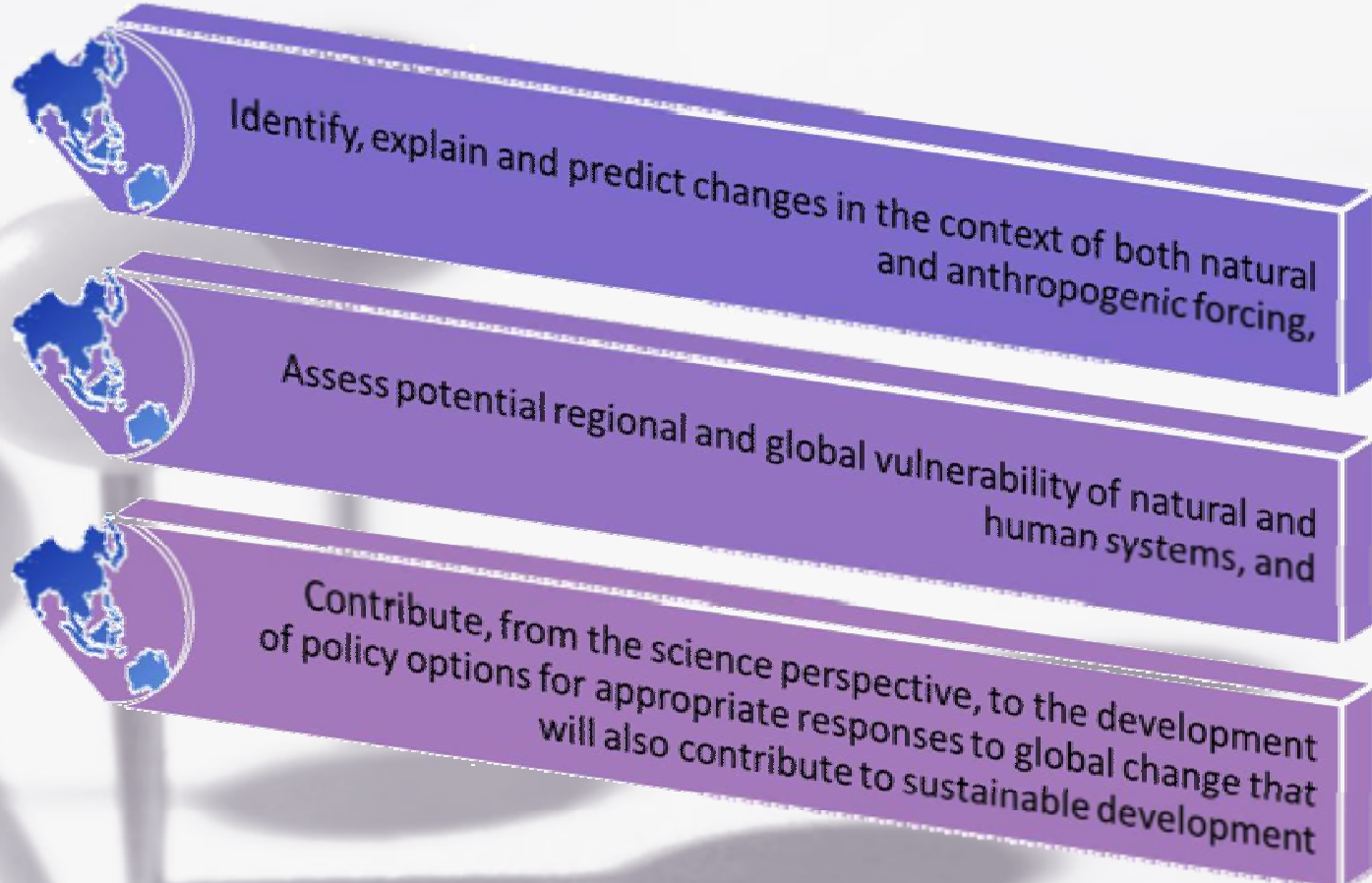


Ministry for the  
**Environment**  
*Manatū Mo Te Taiao*



United States  
Global Change  
Research Program

The APN supports investigations that will:



Identify, explain and predict changes in the context of both natural and anthropogenic forcing,

Assess potential regional and global vulnerability of natural and human systems, and

Contribute, from the science perspective, to the development of policy options for appropriate responses to global change that will also contribute to sustainable development



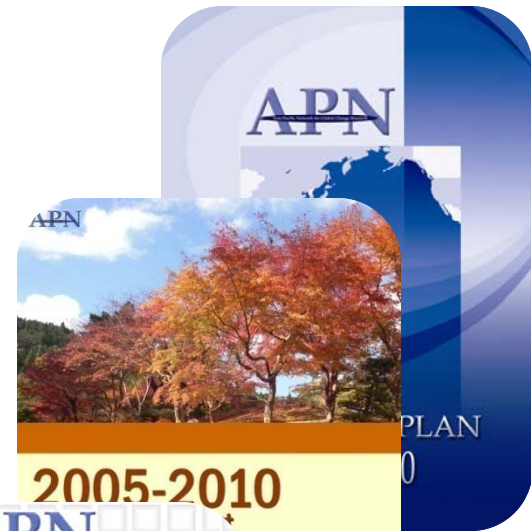
## 3<sup>RD</sup> STRATEGIC PHASE

2010-2015  
Third Strategic Plan

### APN GOALS

- Supporting regional cooperation in global change research on issues particularly relevant to the region
- Strengthening appropriate interactions among scientists and policy-makers, and providing scientific input to policy decision-making and scientific knowledge to the public
- Improving the scientific and technical capabilities of nations in the region, including the transfer of know-how and technology
- Cooperating with other global change networks and organisations

# HIGHLIGHTS OF THE 2<sup>ND</sup> STRATEGIC PHASE





# HIGHLIGHTS OF THE 2<sup>ND</sup> STRATEGIC PHASE



APN  
Asia-Pacific Network for Global Change Research

### APN Scientific Review

Evaluation of the Second Strategic Phase (2005-2010)  
(Leading to the formulation of the Third Strategic Plan)

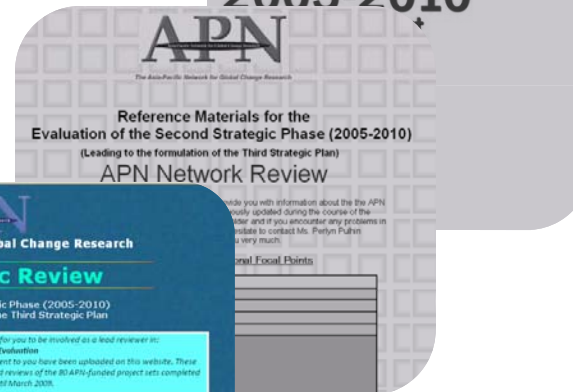
You have reached this secure site in response to our request for you to be involved as a lead reviewer in:  
Stage Two Lead Reviewer Evaluation

All of the necessary documents as outlined in the Terms of Reference sent to you have been uploaded on this website. These provide you with all of the information you will need to perform selected reviews of the 80 APN-funded project sets completed in the period from April 2005 until March 2008.

This website will continue to be updated over the coming weeks with documents that you may find useful to perform the review. Many files are compressed (zipped) into one folder and if you encounter any problems in accessing the files that you want to view, please do not hesitate to contact:

Dr. Linda Anne Stevenson ([lstoivasson@apn.acr.org](mailto:lstoivasson@apn.acr.org)) of the APN Secretariat.

Thank you very much.



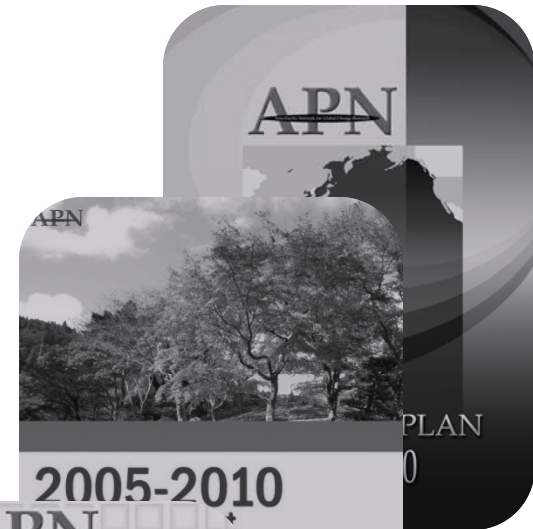
APN  
The Asia-Pacific Network for Global Change Research

### Reference Materials for the Evaluation of the Second Strategic Phase (2005-2010) (Leading to the formulation of the Third Strategic Plan)

#### APN Network Review

Provides you with information about the APN  
regularly updated during the course of the  
year and if you encounter any problems in  
accessing the files that you want to view,  
please do not hesitate to contact:

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APN  
2005-2010  
Strategic Plan

APN-funded projects overall had **very good success in terms of meeting the five goals** stated in the APN Second Strategic Phase (2005-2010).

## Evaluation of Projects under the ARCP and CAPaBLE Programmes



CAPaBLE

- ❑ Many projects reviewed were **policy relevant**
- ❑ Successful and highly rated projects:
  - ✓ *focussed on specific impacts on the environment and society*
  - ✓ *identified relevant problems*
  - ✓ *proposed well-developed methodologies to achieve outcomes beneficial to either a scientific community or the public at large*
- ❑ Projects **improved regional and national networking of scientists** in specialised fields of research, which resulted in improved collaboration
- ❑ Research outcomes resulted in **better understanding of the impacts of climate change in the region and an increased awareness of these issues** by policy-makers and resource managers
- ❑ All projects were designed to **meet the needs for scientific information** relevant to regional issues





- ❑ Projects **augmented technical training of scientists and science support personnel and produced some well-designed educational and training materials** for local application. Local outreach through workshops was **very effective** in disseminating information

- ❑ Capacity building **provided opportunities** for young scientists **to discuss relevant issues on global change and developed professional networking** for future collaborative efforts
- ❑ Workshops and meetings **provided excellent fora for interactions between scientists and policy-makers as well as enhanced the knowledge base of information** relevant to regional climate change impacts

# Key Highlights of the APN's Scientific Activities

ACTIVITIES

**APN's Capacity Building** endeavour, in line with **GEOS** principle "...to be driven by user needs"

OUTCOMES of the APN Scoping Workshops on Global Observations and Capacity Building Needs of the Region: Focus - Climate

**Goals Where Capacity Building is Needed**

- inadequate user involvement
- lack of access to data
- scarcity of scientists, technical infrastructure and funding
- limited research experience
- lack of familiarity with methods and models
- limited archived data and analytical interpretation
- weak link of collaboration among scientists of multiple disciplines

**Most Vulnerable Sectors**

- food and fibre
- biodiversity
- water resources
- coastal ecosystems
- human health and settlements
- land degradation

Continuous **Training and Capacity Development** are needed to advance efforts towards a comprehensive and sustained understanding of Earth processes

**COASTAL SYSTEMS AND CONTINENTAL MARGINS**

**Global Change and Integrated Coastal Management**  
The Asia-Pacific Region  
Edited by Nick Harvey

Springer

**Water Pollution and Ecosystem Degradation**

**Drought and Water Scarcity**

**Climate Change Impacts on Water Cycle**

**CAPaBLE Phase 1 In Review**  
Climate Change

transferring knowledge  
education and training  
promoting tools and technology

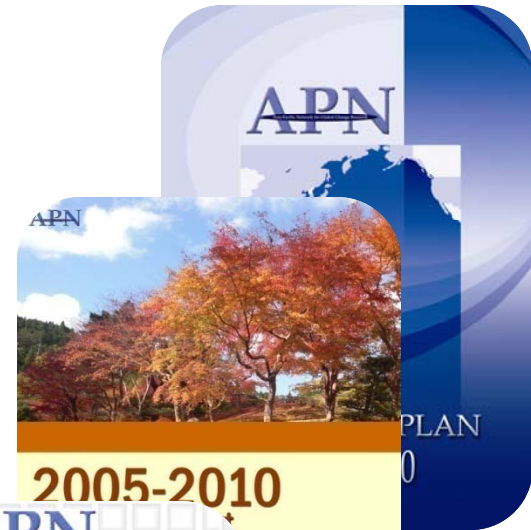
empowerment  
improvement results  
dissemination of results  
scientific and technical

Scientific Capacity Building and Enhancement for Sustainable Development in Developing Countries

- ❑ Incorporated the **CAPaBLE Programme** as an integral part of APN's activities
- ❑ **Financially supported/managed 143 projects** and streamlined the proposals submission and review process under the ARCP and CAPaBLE annual Calls for Proposals
- ❑ Devised and implemented an **external mail review system** as part of the proposals review process
- ❑ Launched Phases II (focussing on Water and Food Security) and III (focussing on Climate Change Impacts, Adaptation and Vulnerability) of the **comprehensive research element of CAPaBLE**; six projects are being implemented
- ❑ Published APN's first book: ***Global Change and Integrated Coastal Management: The Asia Pacific Region (Springer edition)***. *Chapters from this book and a number of outputs such as peer-reviewed papers from selected APN-funded research and capacity building projects and activities were cited in the Intergovernmental Panel on Climate Change (IPCC) 4<sup>th</sup> Assessment Report (AR4).*

- ❑ **Initiated and conducted in-house seminars and capacity development activities**, including two scoping workshops in Global Earth Observations, three international seminars on biodiversity supported by Hyogo Prefectural Government, Japan, and four proposal-development training workshops
- ❑ **Evaluated 18 activities conducted during Phase I of CAPaBLE**, which focussed on Climate Change and ran from April 2003 to March 2006, the results of which indicated that the CAPaBLE Programme is timely and crucial for the Asia-Pacific region. Three publications were devised and distributed throughout the global change community and showcased at various international for a
- ❑ **Launched a Special Call for Proposals for a Focused Activity: *Scientific Capacity Building for Climate Impact and Vulnerability Assessments (SCBCIA)***; Seven projects are being implemented

# HIGHLIGHTS OF THE 2<sup>ND</sup> STRATEGIC PHASE





# HIGHLIGHTS OF THE 2<sup>ND</sup> STRATEGIC PHASE

**APN Scientific**  
Evaluation of the Second Strategic Phase (2005-2010)  
(Leading to the formulation of the Third Strategic Plan)

You have reached this secure site in response to our request for Stage Two Lead Reviewer feedback. All of the necessary documents as outlined in the Terms of Reference sent to you will provide you with all of the information you will need to perform selected reviews at the period from April 2008 until March 2009.

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**APN**  
The Asia-Pacific Network for Global Change Research

**Reference Materials for the Evaluation of the Second Strategic Phase (2005-2010)**  
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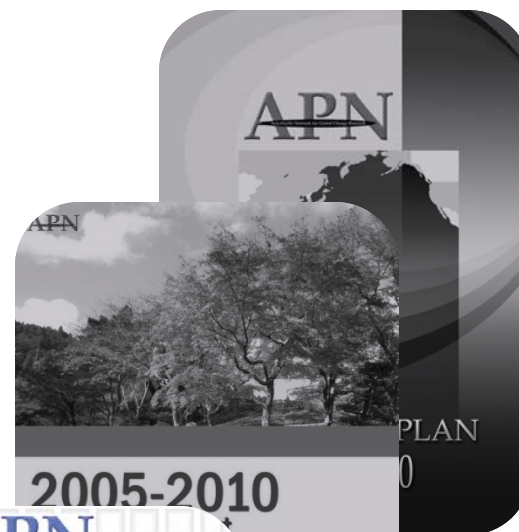
**APN Network Review**

Please note that this secure site was created to provide you with information about the APN activities from 2005 until March 2009 and will be continuously updated during the course of the evaluation. Many files are compressed (zipped) into one folder and if you encounter any problems in accessing the files that you want to view, please do not hesitate to contact Ms. Petyln Pullen (pullen@apn.ac.nz) of the APN Secretariat. Thank you very much.

**Questionnaire for the national Focal Points**

**Communications**

- Communications Strategy
- Country Reports
- Website Content
- Publications
- Annual Report
- APN Guide
- Brochures
- 2005-2010 Strategic Plan I Brochure
- APN
- APN Directory



The APN has steadily improved and expanded its interactions with policy- and decision-makers, thus helping to ***provide a sound scientific basis for policy- and decision-making*** related to global change in the region.

## Overall evaluation of the APN as a Network



- ❑ Continued and increasing involvement of member countries in APN's activities resulting in a **greater sense of ownership** among the member states, particularly evidenced by increased contributions, both in-kind and financially
- ❑ **Marginally increased its budget** despite economic difficulties and the strain on government budgets throughout the period of the second strategic phase
- ❑ **Enhanced communication and outreach tools/strategies**
- ❑ **Increased visibility** in the region, coupled with new and **stronger linkages** with other organisations and **strengthened alignment of its programmes** with the global change scientific community

- ❑ Unique structure that is **effective and useful in the efficient management of its organs**
- ❑ Operating Plan has been an **effective tool in ensuring that APN's activities are implemented** to meet the goals of the strategic plan
- ❑ **Steadily improved and expanded its interactions with policy-and decision-makers**, thus helping to provide a sound scientific basis for policy-and decision-making related to global change in the region
- ❑ **Effective management of the network's programmes and activities** that has not only built the research base in the region, but also increased the scientific research capabilities of the developing countries in the Asia-Pacific region

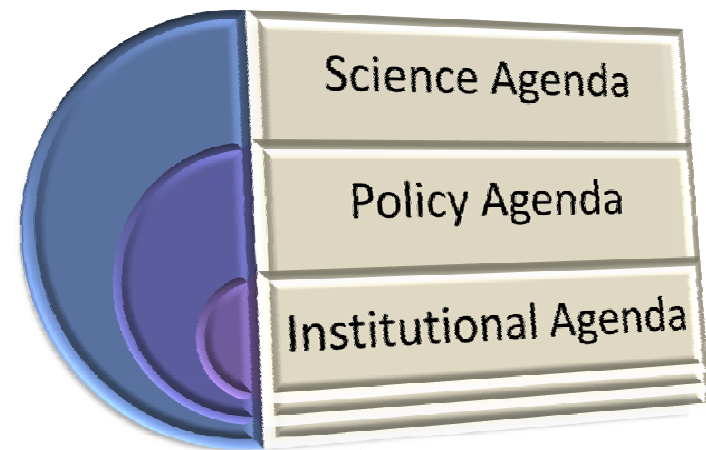
# Key Highlights of Institutional Development



- ❑ **Increased membership** and further developed the APN Framework document
- ❑ Initiated **Country Reports** submission which have been used to streamline and plan the APN's strategies
- ❑ Established **Southeast and South Asia Sub-Regional Committees** that improved the flow of information among members of the APN at the sub-regional level and strengthened collaboration with key partners



- ❑ **Engaged at numerous international fora organised by the global change community** and other institutions including the United Nations Framework Convention on Climate Change (UNFCCC) Conference of Parties and Meeting of the Parties (COP/MOP) and Subsidiary Body for Scientific and Technological Advice (SBSTA) and also in a number of outreach activities
- ❑ Devised **Communications and Resources Development Strategies**
- ❑ **Completed the review process of all three APN agendas** based on the strategies outlined in the 2<sup>nd</sup> Strategic Plan and formulated the 3<sup>rd</sup> Strategic Plan



# COMMUNICATIONS and DEVELOPMENT

**b) effectively communicate the outcomes of the projects it supports;**

**c) strategically disseminate the results and outputs of its activities to the global change community; and**

**a) demonstrate its work within and outside the region;**

**APN recognises that effective communication is crucial to the success of any organisation and has been working hard to strengthen the implementation of its Communication Strategy to...**

**d) enhance communications among the APN organs and with the wider global change community.**





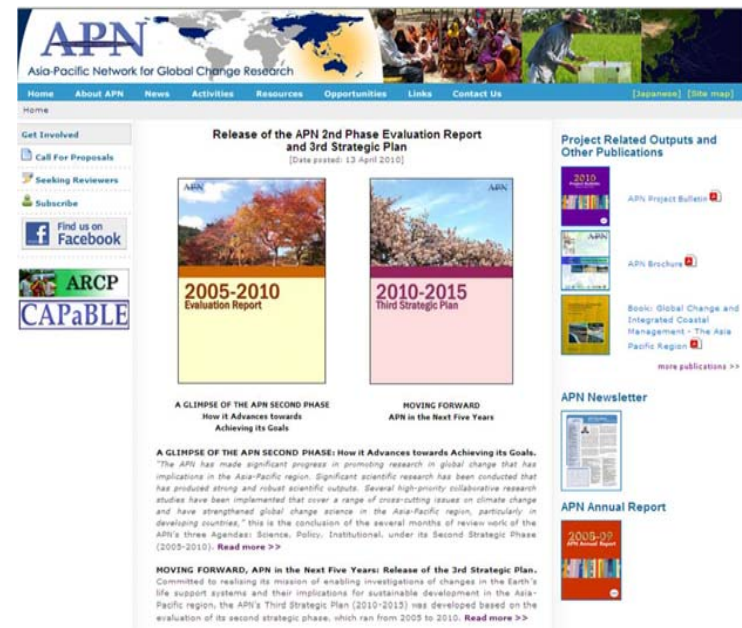
# Strategies for communications and recent developments

- Continue to produce and improve the information materials translated in vernacular language of member countries and various communication tools
- Develop special publications: synthesis reports, book, policy-relevant document
- Attract favourable media attention and increase visibility through news/press releases and proactive communication with editors at the newspapers, magazines, radio stations, television stations and/or television networks in APN member countries

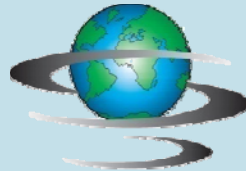


# Strategies for communications and recent developments

- ❑ Continue to improve the website with dynamic features
- ❑ Encourage involvement of more stakeholders in APN outreach activities and of country representatives
- ❑ Strengthen collaboration with the Core Projects of the global change programmes
- ❑ Expand more substantive APN activity to and supportive of policy-making
- ❑ Continue to empower the members by using appropriate platforms in engaging them to be more actively involved in APN activities.



# ENGAGEMENT OF THE GC COMMUNITY



## Strategies for engagement of the Global Change Community and the wider global change audience

- ❑ Invite other global change research organisations to be involved in APN meetings and committees and for the APN to be represented at relevant meetings organised by others
- ❑ Exchange publications with relevant organisations
- ❑ Set common agendas and initiate cooperative arrangements where appropriate
- ❑ Communicate and collaborate closely with organisations in the global change community to achieve shared goals through: a) joint research projects; b) scientific capacity development activities; c) science-policy interfacing; d) enabling Asia-Pacific participation at international conferences; e) scoping workshops; f) developing and strengthening networks of scientists and policy-makers

## Strategies for engagement of the Global Change Community and the wider global change audience

- ❑ Encourage APN-initiated and APN-funded projects to proactively seek collaboration with institutes and organisations that provide co-sponsorship and in-kind contributions; APN will also seek the active involvement of host institutions;
- ❑ Consider entering into formal arrangements with partners, where appropriate
- ❑ Consider establishing partnerships with institutions outside the Asia-Pacific region that have an interest in global change research and scientific capacity development being conducted inside the region



# APN ACTIVITIES INVOLVING GC COMMUNITY

**CITIES AT RISK PARTNERS & SPONSORS**

Enhancing adaptive capacity will require sustained collaborative efforts between the research, science, education, policy and decision-making communities.

To participate in future *Cities at Risk* activities or to request more information about the *Cities at Risk* initiative please contact Clark Siegel ([clark.siegel@iccu.org](mailto:clark.siegel@iccu.org)) at START or Roland Fuchs ([roland.fuchs@iccu.org](mailto:roland.fuchs@iccu.org)) at the East West Center. Additional information about past and future activities may also be found on the web at: <http://start.org/program/citiao-at-risk>



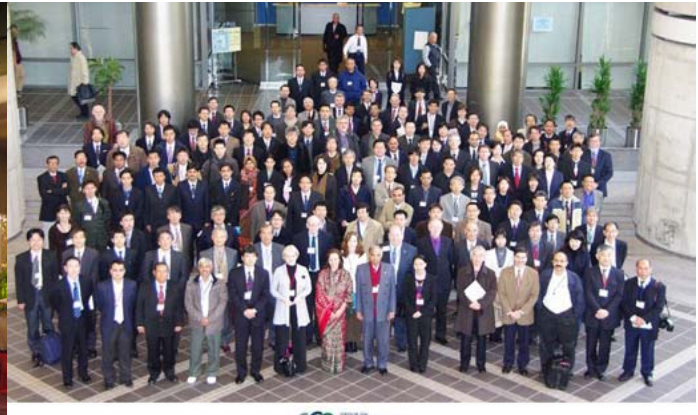
## CITIES AT RISK

### Developing Adaptive Capacity for Climate Change in Asia's C

Unprecedented, rapid urban growth is occurring in the coastal regions of Asia's most regularly devastated the region, particularly when high tides are combined with storm surges. Large coastal cities are particularly at risk from rising sea levels, storms and storm surges aspects of climate change. Indeed, the region's densely populated deltas and other areas are identified in the IPCC Fourth Assessment Report as "key societal hotspots with many millions of people potentially affected."

Increased population in coastal areas is subject to increased potential for loss of life and risks and vulnerabilities are exacerbated by a deficit of institutional resources as well as access to relief effectively with current climate hazards and adapt to

Only recently have local governments and the int consider the implications of climate change on rapidl the Cities at Risk initiative. START and its partners ar institutions and the public to support regional and



**The Third GEOSS Asia-Pacific Symposium**  
Data Sharing for Transverse GEOSS  
February 4<sup>th</sup> – 6<sup>th</sup>, 2009  
Kyoto, Japan

but also block outward

**IHDP Open Meeting 2009**  
The International Science Coordinator on the Human Dimensions of Global Environmental Change  
26-30 April 2009, Bonn, Germany

### Open Meeting Programme

- Concept
- Participation
- Programme
- Value & Logistics
- Organizers
- Sponsorship
- FAQs
- Contact
- Media
- Photo Galleries
- Documents

Demographic Challenges  
27 April 2009  
How do we deal

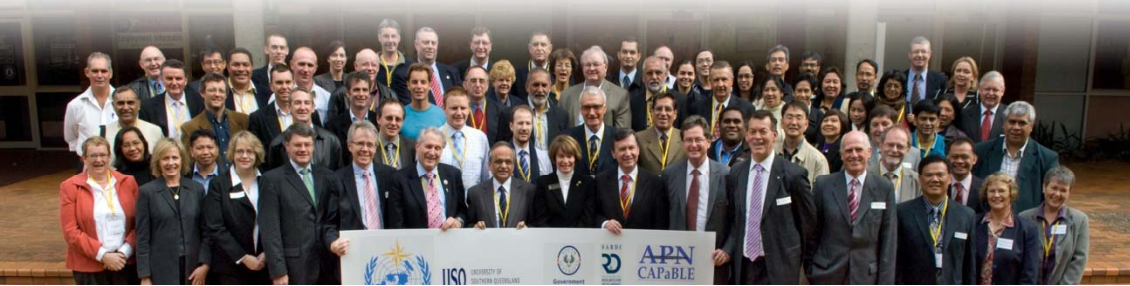
Res and Tech Inn



### 亚太地区城市信息化论坛第七周年会

The 7<sup>th</sup> Annual Forum on City Informationization in the Asia-Pacific Region

以创新研究和发为导向的科学数据与知识共享建设国际研讨会  
暨 UN GAID e-SDDC 2008-2009 年实施计划研讨会  
International Workshop on Open Data and Knowledge  
Environments for Innovative Research and Development  
暨 UN GAID e-SDDC Implementation Plan for 2008-2009



# APN ACTIVITIES IN GEOSS

## APN Scoping Workshops on Global Earth Observations and the Capacity Building Needs of the Region: Focus Climate

Key Financial Sponsors: MOEJ (JAPAN); NSF/USCCSP (USA)

### Key Objectives:

- Identify capacity building needs for research in global earth observations and climate change and its impacts
- Identify the role of the APN in such research
- Underpin systematic observations and create road maps for designing ideas appropriate for capacity building activities



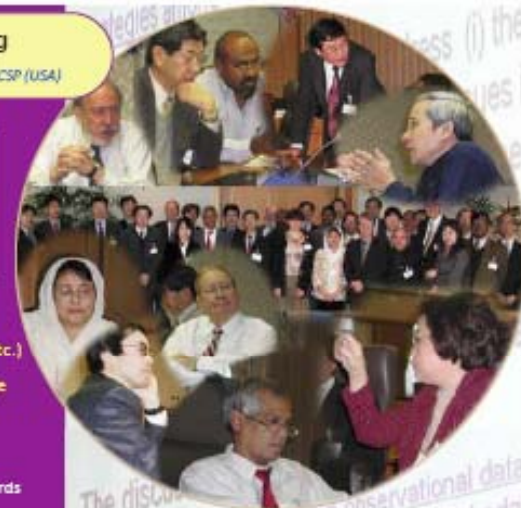
Senior Vice-Minister Shuichi Kato of the MOEJ (EOS II, 2004): "Japan will continue to work to strengthen its support of capacity building in the area of earth observations through the framework of APN."

### Key Constraints:

- Lack of observational data (meteorological, oceanographic, socio-economic, etc.)
- Inaccessibility to existing data
- Scarcity of experienced scientists and lack of adequate scientific infrastructure
- Lack of familiarity with relevant methods and models

### Overarching Capacity Needs:

- Continuous training and capacity development to advance efforts towards comprehensive and sustained understanding of the Earth's processes
- Research on climate modelling and socio-economic impacts and adaptation
- Collection, rescue and analysis of historical data
- Linking earth observations and climate modelling



The discussion (a) Exchange of information on observational data experience and views on climate change and adaptation from the countries in Asia and the Pa...



### Vulnerable Sectors

food and fibre; biodiversity; water resources; coastal ecosystems; human health and settlements; land degradation

### Key Outputs and Impacts:

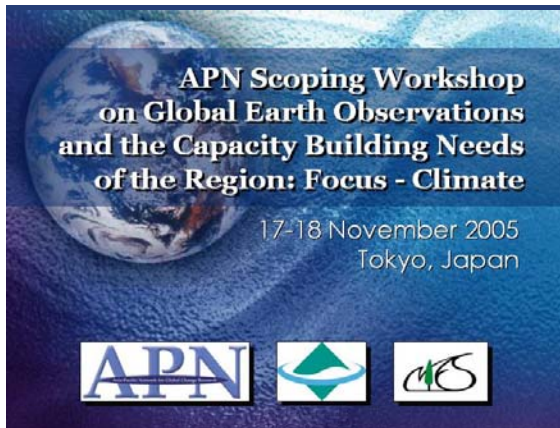
- Scoping workshop outputs published as early achievement in the GEO Publication *First One Hundred Steps to GEOSS*
- APN funding for a number of activities under the *GEOSS Asian Water Cycle Initiative (AWCI)*
- Alignment of GEO and APN goals for the region and strengthened collaboration

SBSTA 24 (2006), Dr. Andrew Matthews, APN SPG Member and MP for New Zealand noted "Accessing EO data requires promoting political commitment to data sharing and removing practical barriers by enhancing electronic interconnectivity and accessibility to metadata."





# APN ACTIVITIES IN GEOSS



1st Joint APN & GEOSS/AWCI Scoping Workshop (April 2008)



APN's Exhibition at GEO VI Plenary  
17-18 November 2009  
Washington, DC

Two scoping workshops were conducted in November 2005 and March 2006



The Third GEOSS Asia-Pacific Symposium  
Data Sharing for Transverse GEOSS  
February 4<sup>th</sup> - 6<sup>th</sup>, 2009  
Kyoto, Japan



The 5<sup>th</sup> International Coordination Group (ICG) Meeting GEOSS /AWCI  
Tokyo, Japan, 15-18, December 2009



APN's Exhibition at GEO III  
28-29, November 2006,  
Bonn, Germany



## APN ACTIVITIES IN GEOSS

### COMPLETED and ON-GOING APN-FUNDED PROJECTS

- ❑ Integrated Water Data Access and Transfer in Asia (IIWaDATA) Project; Project Leader: Toshio Koike
- ❑ The Global Earth Observation System of Systems Asian Water Cycle Initiative Observation Convergence and Data Integration (GEOSS/AWCI/OCDI); Project Leader: Chu Ishida
- ❑ Capacity Building for Drought Monitoring and Studying in Monsoon Asia under AWCI; Project Leader: Ailikun
- ❑ Flood Risk Management Demonstration Project (Phase 1) under the AWCI/GEOSS (FRM/AWCI/GEOSS) Project Leader: Kazuhiko Fukami
- ❑ Inter-Agency Collaborative Technologies in Earth Observations (EO) for Global Change Research in the Asia-Pacific Region: Full Proposal submitted following conditions of APN Seed Grant CBA2008-13NSG-Li Project Leader: Dr. Guoqing Li

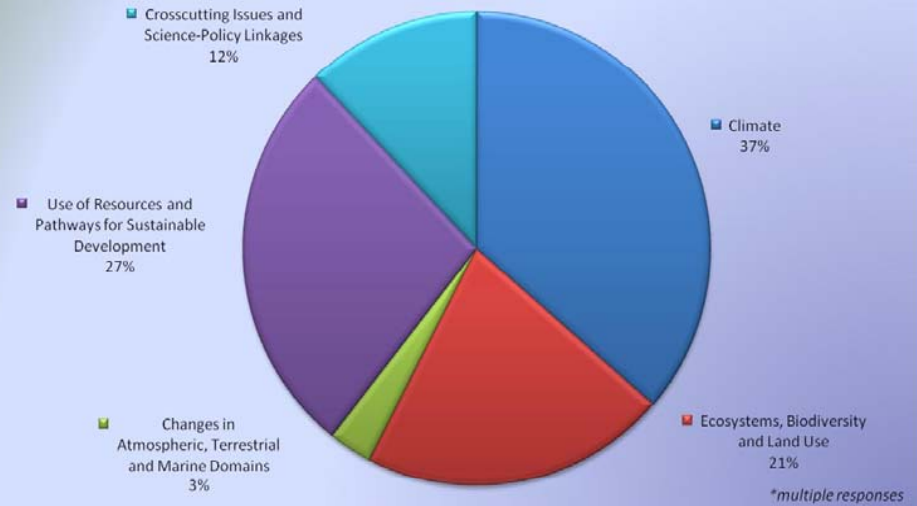
### NEW APN-FUNDED PROJECTS

- ❑ River Management System Development in Asia Based on Data Integration and Analysis System (DIAS) under the GEOSS; Project Leader: Toshio Koike
- ❑ Climate Change Impact Assessment on the Asia-Pacific Water Resources Under AWCI/GEOSS ; Project Leader: Prof. Deg-Hyo Bae, Sejong University
- ❑ Promoting a Data Sharing Environment within the Earth Observation System of Systems: The Asia-Pacific Perspective; Project Leader: Dr. Robert S. Chen, CODATA/CIESIN, Columbia University, USA

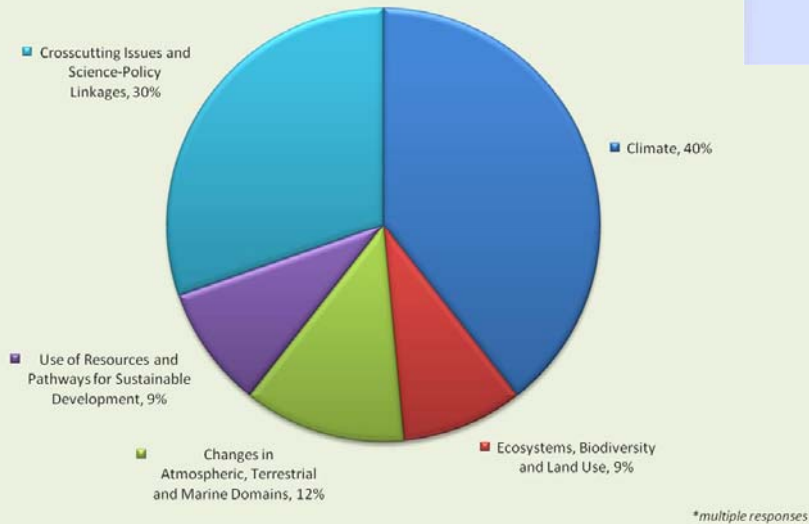
# New projects and activities for 2010/11



Theme Distribution of ARCP Funded Projects for 2010/11\*



Theme Distribution of CAPaBLE Funded Projects for 2010/11\*



CAPaBLE

## 2010-11 Research Projects under the ARCP Programme

- ❑ **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
- ❑ **ARCP2010-02CMY-Phua:** Integrated Prediction of Dipterocarp Species Distribution in Borneo for Supporting Sustainable Use and Conservation Policy Adaptation
- ❑ **ARCP2010-03CMY-Marambe:** Vulnerability of Home Garden Systems to Climate Change and its Impacts on Food Security in South Asia
- ❑ **ARCP2010-04CMY-Wang:** Building Asian Climate Change Scenarios by Multi-Regional Climate Models Ensemble
- ❑ **ARCP2010-05CMY-Luck:** The Effects of Climate Change on Pests and Diseases of Major Food Crops in the Asia Pacific Region
- ❑ **ARCP2010-06CMY-Schaefer:** Quantifying the Role of Dead Wood in Carbon Sequestration
- ❑ **ARCP2010-07CMY-Bai:** Asian Coastal Ecosystems: An Integrated Database and Information Management System (DIMS) for Assessing Impact of Climate Change and its Appraisal
- ❑ **ARCP2010-08NSY-Freeman:** Impact of Climate Change on Food Security and Biosecurity of Crop Production Systems in Small Pacific Nations
- ❑ **ARCP2010-09NSY-Patwardhan:** Enhancing Adaptation to Climate Change by Integrating Climate Risk into Long-Term Development Plans and Disaster Management

## 2010-11 Research Projects under the ARCP Programme

- ❑ **ARCP2010-10NMY-Koike:** River Management System Development in Asia Based on Data Integration and Analysis System (DIAS) under the GEOSS
- ❑ **ARCP2010-11NMY-Asanuma:** Intercomparison of Landsurface Process Modelling at Asian Drylands
- ❑ **ARCP2010-12NMY-Uprety:** Community Based Forestry and Livelihoods in the Context of Climate Change Adaptation
- ❑ **ARCP2010-13NMY-Bae:** Climate Change Impact Assessment on the Asia-Pacific Water Resources under AWCI/GEOSS
- ❑ **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)
- ❑ **ARCP2010-15NMY-Han:** The Impact of Spatial Parameters on Greenhouse Gas Emissions: A Comparative Study between Cities in China and India
- ❑ **ARCP2010-16NMY-Huda:** Food Security and Climate Change in the Asia-Pacific Region: Evaluating Mismatch between Crop Development and Water Availability
- ❑ **ARCP2010-17NMY-Towprayoon:** Strategic Rice Cultivation for Sustainable Low Carbon Society Development in Southeast Asia
- ❑ **ARCP2010-18NMY-Lutaenko:** Coastal Marine Biodiversity of Viet Nam: Regional and Local Challenges and Coastal Zone Management for Sustainable Development

## 2010-11 Research Projects under the CAPaBLE Programme

- ❑ **CBA2010-01CMY-Sang-arun:** Promoting Sustainable Use of Waste Biomass in Cambodia, Lao People's Democratic Republic and Thailand: Combining Food Security, Bio-energy and Climate Protection Benefits
- ❑ **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)
- ❑ **CBA2010-03NSY-Indrawan:** Developing the Capacity for Teaching Biodiversity and Conservation in the Asia-Pacific Region
- ❑ **CBA2010-04NSY-Dhakal:** Carbon Governance in Asia: Bridging Scales and Disciplines
- ❑ **CBA2010-05NSY-Lorrey:** Improving Pacific Island Meteorological Data Rescue and Data Visualisation Capabilities through Involvement in Emerging Climate Research Programmes
- ❑ **CBA2010-06NSY-Kench :** Improving Understanding of Local-Scale Vulnerability in Atoll Island Countries: Developing Capacity to Improve In-Country Approaches and Research
- ❑ **CBA2010-07NSY-Stone:** Web-based 'Discussion-support' Agricultural-Climate Information for Regional India
- ❑ **CBA2010-08NSY-Salinger:** Addressing the Livelihood Crisis for Farmers: Weather and Climate Services for Sustainable Agriculture – Development of Tools
- ❑ **CBA2010-09NSY-Rupakheti:** Scientific Capacity Development of the Trainers and Policy Makers for Climate Change Adaptation Planning in Asia and the Pacific

## 2010-11 Research Projects under the CAPaBLE Programme

- ❑ **CBA2010-10NSY-Chen:** Promoting a Data Sharing Environment within the Earth Observation System of Systems: The Asia-Pacific Perspective
- ❑ **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
- ❑ **CBA2010-12NSY-Pradhananga:** Graduate Conference on Climate Change and People
- ❑ **CBA2010-13NMY-Kawai:** Capacity Building of Biodiversity Research in the Coastal Zones of the Asia Pacific Region: Phycology Taxonomy Analysis Training Using Genetic Marker
- ❑ **CBA2010-14NMY-Kaihotsu:** Drought Monitoring System Development by Integrating In-situ Data, Satellite Data and Numerical Model Output
- ❑ **CBA2010-15NMY-South:** Global Change and Coral Reef Management Capacity in the Pacific: Engaging Scientists and Policy Makers in Fiji, Samoa, Tuvalu and Tonga
- ❑ **CRP2010-01CMY-Weber:** Vulnerability Mapping as a Policy Tool in Developing Countries
- ❑ **CRP2010-02CMY-Pereira:** Strengthening Capacity for Policy Research on Mainstreaming Adaptation to Climate Change in Agriculture and Water Sectors

# NEW ACTIVITIES FOCUSSED UNDER SCIENTIFIC RESEARCH THEMES 2 AND 4 OF THE APN'S 3<sup>RD</sup> STRATEGIC PLAN



Theme 2: Ecosystems,  
Biodiversity and Land Use  
**Key Focus Areas: Forestry  
and REDD-Plus**



Theme 4: Resources Utilisation and Pathways for Sustainable  
Development

**Key Focus Areas: Global change implications of efficient  
resource utilization; Action to establish international sound  
material cycle society**



<http://www.apn-gcr.org/newAPN/opportunities/opportunities.htm>

## New Activities Focused under Scientific Research Themes 2 and 4 of the APN's 3<sup>rd</sup> Strategic Plan

The kinds of activities that may be supported include:

- ❑ Promoting and strengthening **interdisciplinary regional global change research**, particularly addressing novel research, and/or identifying key gaps via synthesis and assessment work.
- ❑ Identifying and developing existing and/or new methodologies for capacity development, particularly in **effective transfer of scientific know-how and technology** to user communities, both science and non-science.
- ❑ **Strengthening interfaces between science and policy** communities and society in general for effective pathways to sustainable development.
- ❑ **Encouraging initiatives from developing nations** for place-based, integrative research activities.
- ❑ **Aligning with other programmes of the global change community.**



## NEW HYOGO INITIATIVES

- ❑ **Activity 1:** International Symposium Coexistence with and Blessing from Nature ~ Biodiversity and People – Hyogo Dialogue for the Future
- ❑ **Activity 2:** Side event at CBD COP1
- ❑ **Activity 3:** Exhibit at CBD COP 10

*These new activities will be implemented with funding from Hyogo Prefecture Government, Japan*



*In strengthening collaboration with the Hyogo Prefecture Government, Japan, a number of activities were endorsed at the 15<sup>th</sup> IGM/SPG Meeting.*



For more details, check the following sites:

<http://www.apn-gcr.org/newAPN/activities/symposiaInHyogo.htm>

<http://www.apn-gcr.org/newAPN/activities/synthesis.htm>

## Annual Calls for Proposals

The Annual Regional Call for Research Proposals (**ARCP**) and the Annual Call for Capacity Building Proposals under the Scientific Capacity Building and Enhancement for Sustainable Development in Developing Countries (**CAPaBLE**) Programme was launched on 14 May 2010. Submission of Summary Proposal is on 30 July 2010.

Vsvisit: <http://www.apn-gcr.org/newAPN/opportunities/opportunities.htm>.

## Science-Policy Interactions/Challenges

One of APN's goals is *“Strengthening appropriate interactions among scientists and policy-makers, and providing scientific input to policy decision-making and scientific knowledge to the public”*



# Science-Policy Interactions/Challenges

***To facilitate of appropriate science-policy interaction, APN will:***

- Support training workshops for scientists to develop skills and techniques in providing science-based tools to support policy development
- Provide scientific information to policy-makers in a suitable format
- Identify and maintain databases of key policy bodies for the region
- Improve communications and exchange of information with relevant governmental fora in the region and relevant inter-governmental bodies
- Cooperate with other organisations to provide scientific information to the public
- Improve access to APN products and activities through media by providing frequent press releases and enhancing communications with media groups
- Facilitate communications and interactions among APN members and the Secretariat
- Develop a set of metrics for science-policy interactions/linkages and define specific criteria for successful science-policy linkages
- Encourage projects to adopt interdisciplinary approaches that include natural, social, economic and political sciences

## Science-Policy Interactions/Challenges

- ❑ Continue to empower APN members, who represent their governments, in APN activities, by seeking their guidance on best practices and opportunities to promote science and policy interactions
- ❑ Increase the number of policy publications, including policy-briefs, synthesis reports and assessments
- ❑ Disseminate scientific results to non-science audiences in order for policy-makers, end-users and the public to have a better appreciation of global change issues
- ❑ Cooperate with other institutions and bodies (e.g. the global change programmes, Association of Southeast Asian Nations [ASEAN], Intergovernmental Panel on Climate Change [IPCC], United Nations Framework Convention on Climate Change [UNFCCC] and Subsidiary Body for Scientific and Technological Advice [SBSTA], etc), who, like the APN, address or face issues relating to science-policy interactions
- ❑ Provide increasing opportunities for interactions between scientists and policy-makers, and through policy-based workshops where participants include policy-making groups and a cross-section of stakeholders

# Commitment to Capacity Development

The **CAPaBLE** programme is enhancing scientific capacity in developing countries to improve decision-making relating to issues that are directly linked to their sustainable development. This effort is being achieved through a three-track mechanism: 1) capacity enhancement of experienced leading scientists; 2) capacity development for early-to-mid-career scientists; and 3) science-policy interfacing and awareness raising of scientists, decision-makers and civil society.

**Transferring Knowledge, Education and Training; Promoting Climate Tools and Technology**

**APN CAPaBLE MAKING A DIFFERENCE**

**Activities of Interest under CAPaBLE**

- scientific capacity building and enhancement for sustainable development
- science-policy interfacing
- awareness-raising activities
- dissemination activities

**In its first 3 years, CAPaBLE**

- trained over 300 scientists
- raised the awareness of more than 4000 people on climate and global change issues
- published over 50 peer-reviewed papers

**CAPaBLE Phase 1 in Review: KEY MESSAGES**

- facilitated development of research infrastructure and transfer of expertise and technology
- strengthened regional collaboration
- developed and enhanced scientific and technical capabilities of researchers
- new and enhanced awareness of policy-makers and civil society
- successful science-policy interactions
- successful development and better use of climate change tools for decision-making processes
- unique and timely outputs that can be incorporated into future work on climate change

**Climate in Asia and the Pacific: A Synthesis of APN Activities**

The APN has embarked on a two-year synthesis entitled *Climate in Asia and the Pacific: A Synthesis of APN Activities* taking into account APN project and other related activities on climate change and their contribution to the challenges that the global community is being faced with in the light of climate change.

The Climate Synthesis Team will be synthesizing the work of over 50 APN-funded climate projects, focusing specifically on:

- Food, Agriculture and Climate
- Seasonal Climate Prediction & Applications
- Climate Variability, Trends and Extremes
- Regional Climate Change Modelling
- Vulnerability & Adaptation to Climate Change
- Climate Change Mitigation
- Coastal Cities and Climate Change
- Climate Change Policy and Outreach

The synthesis will be published in March 2011 and is expected to be a key citation for the IPCC AR5.

**Scientific Capacity Development for Climate Impact and Vulnerability Assessments**

APN strongly recognises that science can support informed decisions and aims to develop the scientific capacity of vulnerable Asia-Pacific countries in order to make informed decisions on how best to reduce the risks associated with climate change.

**Asia-Pacific Region Highly Vulnerable** - There are sharp differences across regions when it comes to the distribution of vulnerabilities and those in the weakest economic positions are the most vulnerable to climate change.

Key vulnerabilities to climate change are associated with many climate-sensitive systems: Food and water resources, coastal systems, ecosystems, biogeochemical cycles, and modes of oceanic and atmospheric circulation.

APN has awarded seven grants to developing nations in the region:

- Vulnerability Assessment & Urban Development for Asian Coastal Cities (Thailand)
- Capacity Development on Integrating Science and Local Knowledge for Impact & Vulnerability Assessment (Philippines)
- Advancing Community-based Scientific Capacity to Support Climate Change Adaptation (China)
- Capacity Development for Impact & Vulnerability Assessments in Shallow-water Measurements of Sea-Level Rise (Indonesia)
- Developing Research Capacity on Assessing Community Resilience to Vulnerability to Climate Change Impacts in Coastal Wetlands and Mangrove River Deltas (Thailand)
- Capacity Development for Climate Change Adaptation in Rural Coastal Zones of Viet Nam
- Developing Capacity of the Scientific Community for Assessing the Health Impacts of Climate Change in Pakistan (Pakistan)

**Scientific Capacity Building and Enhancement for Sustainable Development in Developing Countries**

Visit Us! <http://www.apn-gcr.org>

Partners:
 

- Hyogo Prefectural Government (Japan)
- Ministry of the Environment (Japan)
- Ministry of Environment (Australia)
- National Science Foundation (United States of America)
- United States of America
- Environment (New Zealand)

# Commitment to Capacity Development

In this commitment to capacity development, the APN's strategies are to:

- ❑ Recognise that scientific capacity development is needed for both the science and non-science communities;
- ❑ Establish specific criteria and a set of metrics for evaluating successful capacity development for short- and long-term outcomes;
- ❑ Widen its scientific capacity development activities in the broader context of global change and the scientific themes identified in the present Strategic Plan;
- ❑ Continue its scientific capacity development efforts in science and education at all levels from the local and community levels (grass roots), to the national, regional and global levels, particularly in developing countries.

Contact  
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