

# Asia-Pacific Network for Global Change Research (APN)

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[www.apn-gcr.org](http://www.apn-gcr.org)

**9<sup>th</sup> GEO CBC Meeting, Athens, Greece 27-28 April 2009**

# Brief Overview of the APN



## The **A**sia-**P**acific **N**etwork for Global Change Research (APN)

- Established in 1996;
- Inter-Governmental Network of 21 member countries to foster global change research in the Asia-Pacific region;
- Secretariat in Kobe, Japan, since 1999;
- Provides financial support towards scientific research (ARCP) & capacity building activities (CAPaBLE).
- Mandate to strengthen science and policy interactions

# Brief Overview of the APN



- Australia
- Bangladesh
- Cambodia
- China
- Fiji
- India
- Indonesia
- Japan
- Lao PDR
- Malaysia
- Mongolia
- Nepal
- New Zealand
- Pakistan
- Philippines
- Republic of Korea
- Russian Federation
- Sri Lanka
- Thailand
- United States of America
- Viet Nam



Pacific Island Countries and Singapore are approved countries eligible to receive funding through the competitive call for proposals

# Brief Overview of the APN



**APN is financially supported by the Governments of:**



**Australia**



**Department of Environment, Water, Heritage & Arts**

**Japan**



**Ministry of the Environment, Hyogo Prefecture**

**New Zealand**



**Ministry for the Environment**

**Republic of Korea**



**Ministry of Environment**

**United States of America**



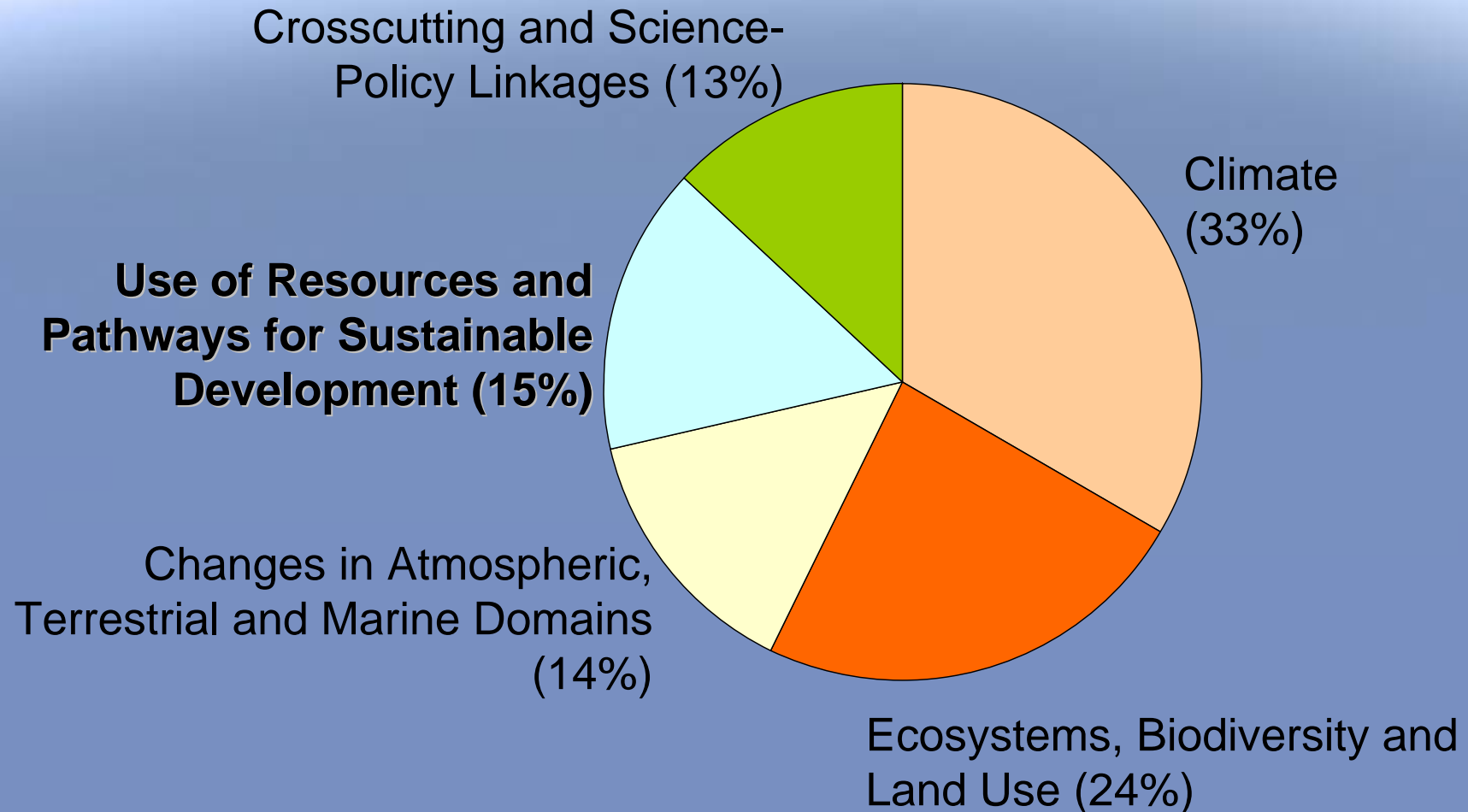
**National Science Foundation/ US Climate Change Science Program**



# Brief Overview of the APN



## Key Scientific Themes (2SP)



# APN Activities in GEOSS



- The 10-year implementation plan endorsed at the 3<sup>rd</sup> GEO Summit (2005), the APN noted that “....**specific capacity building activities needed to be tailored to suit regional or local requirements.....**”
- Based on this principle and following the GEO 2006 work plan, the APN organized 2 capacity building scoping workshops (climate SBA focus)

# APN Activities in GEOSS



## **Problematic situations related to global earth observations and climate change research were identified:**

- Still considerable lack of observational data (meteorological, oceanographic, socio-economic, etc.);
- Lack of accessibility to existing data for researchers of the region;
- Scarcity of experienced scientists, lack of scientific infrastructure; and
- Lack of familiarity with relevant methods and models; and
- Lack of outreach of policy makers.

## **Sectors identified as most vulnerable (not in any priority order):**

- Food and fibre; Biodiversity; Water resources; Coastal ecosystems; Human health and settlements; and land degradation.

**APN's Capacity Building** endeavour, in line with **GEOSS** 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

**Gaps 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/lack 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**

**Priority Actions**

- intensify communication and information sharing
- research on climate modeling and socio-economic impacts and adaptation
- promote public awareness
- collect, rescue and analyse historical data
- detect ongoing phenomena related to climate change and variability
- link earth observation and climate modeling

**Asia and the Pacific Region** alongside **Global Community**

The Scoping Workshops were co-organised by the Ministry of the Environment, Japan, US National Science Foundation, Ministry of Natural Resources and Environment, Thailand and the National Institute for Environmental Studies, Japan.

**Asia-Pacific Network for Global Change Research (APN)**

For more information, please visit: [www.apn-gcr.org](http://www.apn-gcr.org)



# APN's Exhibition at GEO III

28-29, November 2006, Bonn, Germany



# Ongoing Activities

A hand with a yellow-gold skin tone is pointing its index finger towards a globe. The globe is partially visible, showing the continents of North and South America. The background is a soft, out-of-focus blue and white. The APN logo and website address are overlaid on the right side of the image.

**APN**  
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# APN Activities in GEOSS (2009-11: WA-06-07)



**GEOSS/AWCI Observation Convergence and Data Integration (GEOSS/AWCI/OCDI)” for Water Cycle Research and Water Resources Management under Climate change in Asia.**

**2-year funded project under the CAPaBLE programme**

**Project Leader: Chu Ishida (CEOP/JAXA)**



# APN Activities in GEOSS (2009-11: WA-06-07)



Flood Risk Management Demonstration Project (Phase 1)  
under the AWCI/GEOSS (FRM/AWCI/GEOSS)  
**2-year funded project under ARCP programme**

**Project Leader: Kazuhiko Fukami (PWRI)**



# APN Activities in GEOSS (2009-11: WA-06-07)



Capacity building for drought monitoring and studying in Monsoon Asia under the framework of Asian Water Cycle Initiative

**2-year funded project under CAPaBLE programme**

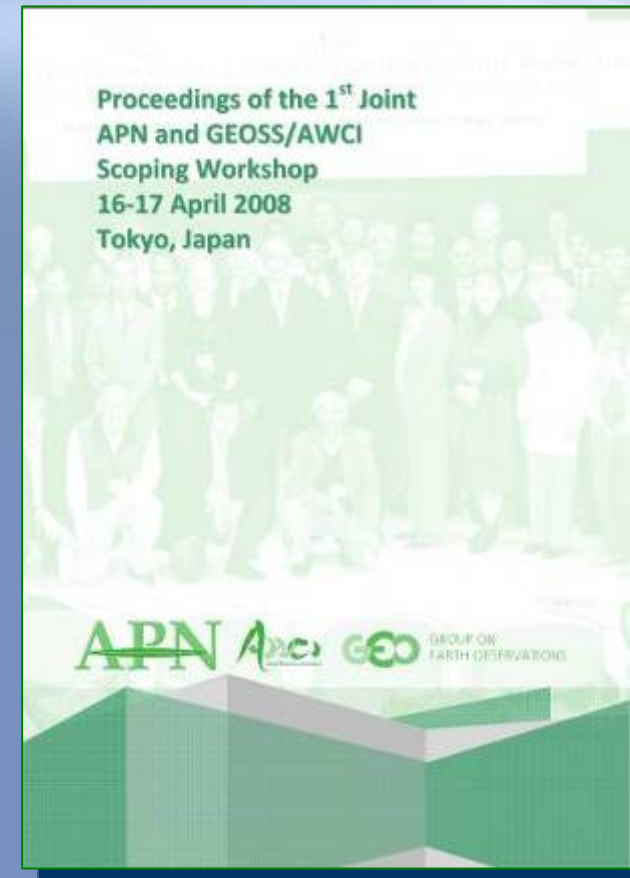
**Project Leader: Dr. Ailikun (MAIRS, CAS)**



# 1<sup>st</sup> Joint APN & GEOSS/AWCI Scoping Workshop (April 2008)



- Proceedings (draft) published January 2009
- Objective was to align water & climate activities related to GEOSS
- Focus quickly steered towards capacity building needs of the region rather than research activities
- **Potential for us to further enhance the dialogue, particularly in the area of the new WG Climate Impacts & Adaptation – focusing on training in model downscaling from global to basin-level.**
- Expected that this will cut across a number of tasks and sub-tasks outlined in the 2009-11 GEOSS Workplan



# CAPaBLE Phase 1: In Review

- Hot off the press (April 2009) is the CAPaBLE “In Review” Brochure which not only highlights GEO as an important partner (page 10), but also dedicates a full page (Page 6) to GEO-related activities.



# Future collaborative activities for a data-sharing transverse GEOSS



## Areas where APN can assist and collaborate

- Funding support for research and capacity building activities through the annual calls for proposals (CB.../DA.../WA...)
- Establishing channel/mechanism for sharing research results/accessing data, etc. (DA-06-01/DA-09-01)
- Training activities and technology transfer in the region in cooperation with other institutions (CB-09-02/CB-09-03)
- Encouraging involvement of scientists, end-users, decision-makers in the region in research and CB activities (ST-09-01/ST-09-02)
- Facilitating science-policy linkages
- Linking with partner research programmes and facilitating regional collaboration (AWCI is a current good example)

# APN's goals aligned with GEOSS



- ❏ **Goal 1: Supporting regional cooperation** in global change research on issues particularly relevant to the region
- ❏ **Goal 2: Strengthening appropriate interactions among scientists and policy-makers**, and providing scientific input to policy decision making and scientific knowledge to the public
- ❏ **Goal 3: Improving the scientific and technical capabilities** of nations in the region
- ❏ **Goal 4: Cooperating with other global change networks** and organisations
- ❏ **Goal 5: Facilitating the development of research infrastructure** and the **transfer of know-how and technology**

# Future collaborative activities for a data-sharing transverse GEOSS

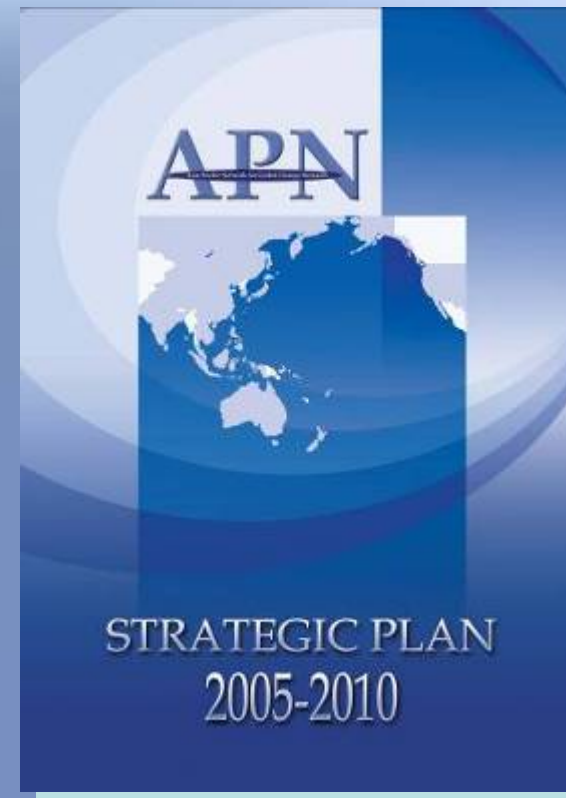


From APN's Mission Statement

“The mission of the APN is to enable investigation of change in the Earth's life support systems as it occurs in the Asia-Pacific Region to:.....”

From APN's Science Agenda

“.....The detection of global change, observing, and information gathering for early warning systems, disseminating this information to appropriate end-users, and contributing **to the Global Earth Observation System of Systems.....**”



# Thank You



**APN**  
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The logo features the acronym 'APN' in a large, blue, serif font. Below it, the full name 'Asia-Pacific Network for Global Change Research' is written in a smaller, blue, sans-serif font. At the bottom of the logo block, the website address 'www.apn-gcr.org' is displayed in a blue, sans-serif font. The background of the slide shows a hand pointing at a globe, with blue wavy borders at the top and bottom.