

Asia-Pacific Network for Global Change Research (APN)

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Outline

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- * APN and GEOSS
- * APN and Asian Water Cycle Initiative

APN in Brief

- Inter-Governmental Network to foster global change research and capacity building in the Asia-Pacific region;
- Established in 1996 as a result of the 1990 White House Conference on Science & Economics Research Related to Global Change;
- Currently 21 member countries;

APN in Brief, II

- Dedicated secretariat in Kobe, Japan, since 1999;
- Major activities:
 - Providing grants to research projects (ARCP);
 - Providing grants to capacity building activities and research projects (CAPaBLE); and
 - Activities to foster science-policy linkage.

The 21 Member Countries are:

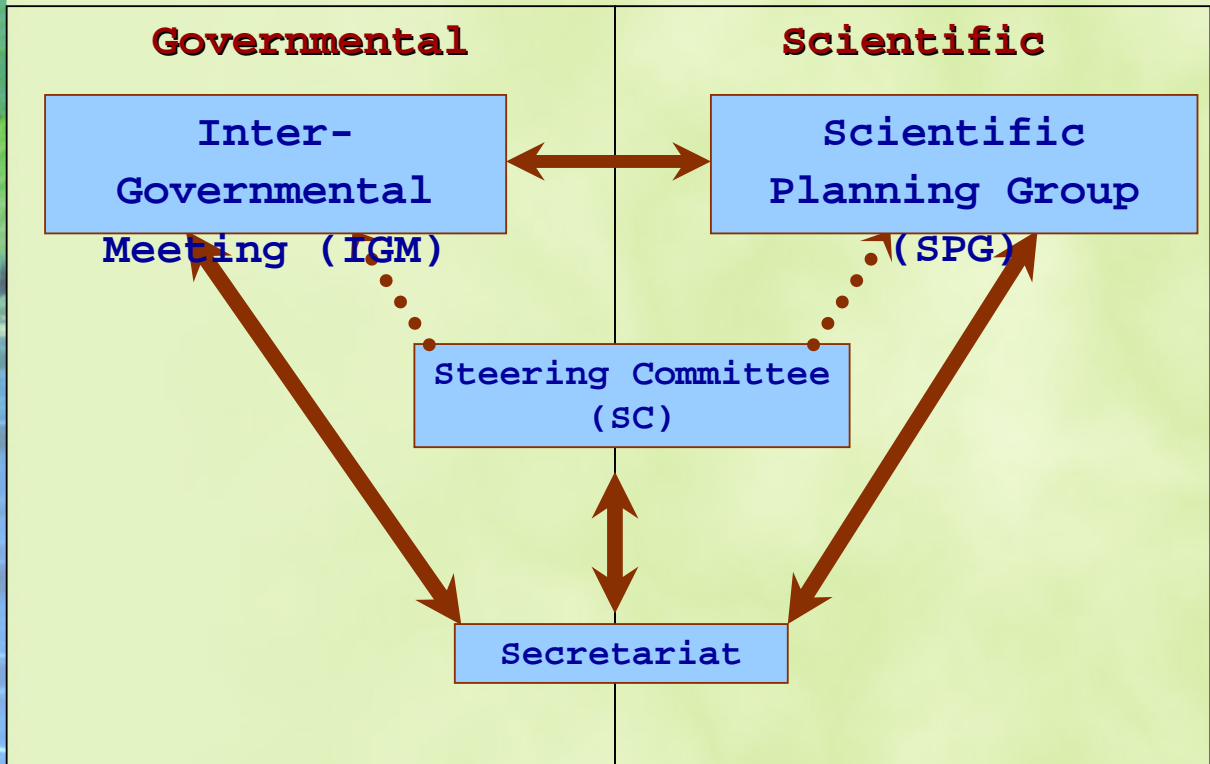
- Australia
- Bangladesh
- Cambodia
- China
- Fiji
- India
- Indonesia
- Japan
- Lao PDR
- Malaysia
- Mongolia
- Nepal
- New Zealand
- Pakistan
- Philippines
- Republic of Korea
- Russian Federation
- Sri Lanka
- Thailand
- USA
- Viet Nam

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

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:

- **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**

Organisational Structure



International Scientific Community for GCR

Earth System Science Partnership

DIVERSITAS

International Geosphere-Biosphere Programme

International Human Dimensions Programme on Global Change Research

World Climate Research Programme

Global Change System for Analysis, Research and Training

Regional Networks for GCR

Inter-American Institute for Global Change Research

Asia-Pacific Network for Global Change Research






African Network of Earth System Science - Global Change Research in Africa

Financial Resources

Currently, the APN is supported by following Governments through direct financial contributions:

- **Japan** (Ministry of the Environment and Hyogo Prefecture)
- **United States of America** (National Science Foundation/US Climate Change Science Program)
- **Australia** (Department of Environment and Water Resources)
- **New Zealand** (Ministry for the Environment)
- **Republic of Korea** (Ministry of

Scientific Agenda (Strategic Plan 2005~2010)

-  Climate;
-  Ecosystems, biodiversity and land use;
-  Changes in Atmospheric, Terrestrial and Marine Domains
-  Use of Resources (food, **water**, energy, materials) and Pathways for Sustainable Development
-  Crosscutting and Science-Policy Linkages

APN and GEOSS

- GEOSS' goal is to enable societies to make decisions and plan actions based on coordinated, comprehensive and sustained Earth observations and information;
- Aligned goals of the APN and GEOSS in:
 - *Enhancing human health, safety and welfare; and*
 - *Improving the scientific and technical capabilities of Asia-Pacific nations, as well as interfacing between policy and science*

APN and GEOSS II

- APN organised two "Scoping Workshops on Global Earth Observations and Capacity Building Needs of the Region: Focus - Climate", in November 2005 in Tokyo and March 2006 in Bangkok with the objectives of:
 - *considering the capacity building necessary for research and monitoring related to climate change and its impacts;*
 - *discussing the role of the APN in such capacity building; and*
 - *creating road maps for designing*

APN and GEOSS

III

- APN has also participated in numerous GEO/GEOSS related events and emphasized that capacity building activities must be driven by **user needs**.

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APN and the Asian Water Cycle Initiative (AWCI)

One of the priority areas of APN's scientific agenda is:

Use of Resources (food, water, energy, materials) and Pathways for Sustainable Development

APN and the Asian Water Cycle Initiative (AWCI) II

The APN has been always supporting research projects related to water, e. g. :

- *Water Resources in South Asia: An Assessment of Climate Change Associated Vulnerabilities and Coping Mechanisms, Project Leader: Prof. Amir MUHAMMED, Pakistan;*


- *International Integrated Water Data Access and Transfer in Asia (IIWaDATA) Project,*

APN and the Asian Water Cycle Initiative (AWCI) III

Exploring exciting possibilities of new partnership between the Japanese Ministry of Education, Culture, Sports, Science and Technology (MEXT), AWCI and the APN:

- *MEXT, the leading governmental agency in Japan for GEOSS, is advancing the creation of the "Data Integration and Analysis System (DIAS)";*

APN and the Asian Water Cycle Initiative (AWCI) IV

 *AWCI, trying to better understand the mechanism of water cycle and its variability - in order to provide applicable tools for informed decision-making in water management; and*

 *APN, very much committed to capacity building of scientists and policy-makers (they are the users of the data and information!) in the Asian Pacific region.*

APN and AWCI:

Possible Ways of Collaboration

- **Joint research of AWCI and APN scientists on water management: bringing together data producers and data users;**
- **Capacity building activities to train public officials and decision makers in the use of the water management models.**

Discussion on a new mechanism of project management and co-funding is needed

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