APN Adaptation Activities

Akio Takemoto, Ph.D.
Director, AP Secretariat
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Background

Essence of Cancun Agreements

- Climate Adaptation Framework
  - Planning, prioritizing and implementing, assessment
  - Institutional capacity
  - Building resilience
  - Disaster risk reduction strategies
  - Research, technologies, data, information, observation
  - Adaptation Committee
- National adaptation plans (NAPs)
- Synergies and engagement with national, regional and international organizations, centres and networks
- Loss and damage insurance

2011 Climate Synthesis Report in AP Recommendations (adaptation)

- Climate change and disaster risk management needs to be mainstreamed into national development strategies
- Critical infrastructure adaptation research, practice and policy are demonstrated
- Need to develop
- Need to develop climate change impact assessment
- Need to develop and implement strategies on adaptation
- Need to build and adapt to reduce vulnerability and building resilience, require much more attention
- Need to develop programmes to enhance the capacity of major players in adaptation planning and management by local authorities and academic institutions, organisations and local governments

APN’s Climate Adaptation Programme from April 2012 to March 2015

- Component 1: Scoping workshop to enhance climate adaptation action of APN developing countries
  - Collaboration with ICAS Tokyo University
  - Determine prioritized thematic areas
  - Design methodologies and tools to support developing countries
  - Component 2: Joint Training Course on adaptation planning and implementation in the AP region
  - Collaboration with UN-CECAR (UN Climate and ecosystem Adaptation Research)
  - Invite researchers and practitioners in prioritized thematic areas
  - Component 3: Proposal Development: Training Workshop (PDWT) with focus on adaptation
  - Results of 1st year activities will be input for a new adaptation programme

Communication for developing adaptation programme (since IGCM, March 2012)

- 5th GEOSS International Asia-Pacific Symposium: April 2-4, 2012, Tokyo, Japan
- Adaptation Policy & Technology Forum for Impacts of Global Change: May 11, 2012, Min, Japan: Meeting with ICAS, Tokyo University:
- UNFCCC/EPIC Asia: International Research Dialogue with Parties: May 19, 2012, Bonn, Germany
- Adaptation Finance Conference 2012: Networking Beyond Business
- Climate Adaptation Partnerships for Sustainable Development: May 28-31, 2012, Tokyo, Japan
- Meeting with Asian Development Bank: July 16, 2012, Musu, Philippines
- APN-START Science-Policy Dialogue on Challenges of Global Environmental Change in Southeast Asia: July 19-21, 2012, Bangkok, Thailand
Essence of Cancun Agreements

- Cancun Adaptation Framework
  - Planning, prioritizing and implementing; Assessment
  - Institutional capacities
  - Building resilience
  - Disaster risk reduction strategies
  - Research, technologies, data, information, observation..
  - Adaptation Committee
  - National adaptation plans (NAPs)
  - Synergies and engagement with national, regional and international organizations, centres and networks
  - Loss and damage (insurance)
2011 Climate Synthesis Report in AP Recommendations (adaptation)

- Climate change and disaster risk management must be mainstreamed into national development strategies....
- Critical to climate adaptation research, practice, and policy are downscaled climate data....
- Develop localized climate change impact assessment tools, especially IAMs...
- Encourage APN member countries to increase the capacity to formulate national strategies on adaptation....
- Community-based climate adaptation, as well as reducing vulnerability and building resilience, requires much more attention....
- Develop programmes to enhance the capacity of major players in adaptation planning and implementation; local universities and academic institutions, communities and local governments....
APN's Climate Adaptation Programme from April 2012 to March 2015

- **Component 1**: Scoping workshop to enhance climate adaptation actions of APN developing countries
  - Collaboration with ICAS Ibaraki University
  - Determine prioritized thematic areas
  - Determine methodologies and tools to support developing countries

- **Component 2**: Joint Training Course on adaptation planning and implementation in the AP region
  - Collaboration with UN-CECAR (UN Climate and ecosystem Adaptation Research)
    - Invite researchers and practitioners in prioritized thematic areas

- **Component 3**: Proposal Development Training Workshop (PDTW) with focus on adaptation
  - Results of 1st year activities will be input for a new adaptation programme (proposed to IGM18 (March 2013) for approval)
Communication for developing adaptation programme (since IGM17, March 2012)

- Planet Under Pressure 2012: March 26-29, 2012, London, UK
- 5th GEOSS International Asia-Pacific Symposium: April, 2-4, 2012, Tokyo Japan
- Adaptation Policy & Technology Forum for Impacts of Global Change: May 11, 2012, Mito, Japan (Meeting with ICAS, Ibaraki University)
- UNFCCC/SBSTA36, International Research Dialogue with Parties: May 19, 2012, Bonn, Germany
- Meeting with Asian Development Bank: July 16, 2012, Manila, Philippines
Objective of the Workshop

- The objective of the workshop is to develop a strategy that can be incorporated into the APN Strategic Plan for enhancing climate adaptation in the Asia-Pacific region from the viewpoint of mainstreaming scientific knowledge into the formulation and implementation of climate adaptation plans.
- The workshop aims to identify needs, gaps, and lessons on planning and implementation of adaptation, and to develop a strategy for APN to enhance adaptation activities in the region by collaborating with international and regional organizations and networks.

Objective: 1

Questions: points for discussion
- What needs, gaps and lessons are identified for planning and implementing adaptation?
- How can we mainstream scientific approaches into climate adaptation policy in Asia-Pacific region?
- What thematic areas, approaches and tools should APN focus on?
- How can APN collaborate with other organizations and networks in order to maximize their own functions for implementing climate adaptation activities

Observation
- Climate Adaptation is mainstreamed into science and technology policy, but not into environment policy (even in developed countries).
- In some developed countries, local governments (prefecture/municipality) established adaptation frameworks and plans, but it is not clear whether science-based climate risk assessment is implemented for public projects.
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Question 1
Status-quo on adaptation plans in USA

Adaptation planning process (suggested by expert group of MOEJ)

Figure 2. Overview of steps for planning and implementation of adaptation measures (relationship between A-track and B-track)

© Approaches to climate change adaptation, Ministry of the Environment, Japan, 2010
Large amount of money is spent for climate adaptation research in Japan
**Observation**

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Objective: 2

Question (2) Strategic thinking for mainstreaming scientific approach

- What are the roles of APS?
- Can we enhance adaptation activities under existing programmes (APCC)? Call MILE?
- Do we need to establish new research and capacity building programmes focusing on adaptation?
- How much is feasibility of the new program proposal?
- What are the roles of other organizations and networks in collaborating with APS?

Question (3) Focused areas, innovative tools and methodologies

- Do we need to set up new tools or data that are supposed to support APS?
- What are innovative tools and methodologies to support developing countries in promoting science-based adaptation activities?

- Developing a training module for capacity building activities
- Developing evaluation tools for assessment of climate-proof policies/through competition process
- NAGI for ready-to-use collaboration with international organizations and networks

Question (4) Possible collaboration

- National Adaptation Programme (NAP)
- APCC countries
- Partnering with the World Bank, UNESCO, FAO, Food and Agriculture Organization, etc.

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Question (2)
Strategic thinking for mainstreaming scientific approach

- How can we support member countries to formulate adaptation plans based on scientific assessment
- How can we support member countries to undertake climate risk assessment as a screening tool for policy planning
  - Infrastructure projects (i.e., traffic roads, irrigation, power plants, bank protection)
  - City planning (i.e., facilities’ layout, emergency measures, disaster risk management)
  - Agriculture / food security (i.e., water resource management, Selection of varieties)
Question (2)
Strategic thinking for mainstreaming scientific approach

• What are the roles of APN?
  • Can we enhance adaptation activities under existing programmes (ARCP, CaPABLE)?
  • Do we need to establish new research and capacity building programmes focusing on adaptation?
  • How much is feasibility of the new program proposal?
  • What are the roles of other organization and networks in collaborating with APN?
Questions (3)  
Focused areas, innovative tools and methodologies

• Do we need to set up focused thematic areas to be supported by APN?
• What are innovative tools and methodologies to support developing countries in promoting science-based adaptation activities? (examples)
  • Developing a training modules for capacity building activities
  • Developing evaluation methods for effectiveness of climate-proof projects (thorough competitive process)
  • MOU for multi-year collaboration with international organizations and networks
Question (3) 
Necessary tools for two approaches

- Top-down approach (in particular)
  - Database (temperature, rainfall, water resources, land use, etc.)
  - Climate modeling, Downscaling, GIS
  - Good practices
  - Impact and Vulnerability Assessment methodology
- Bottom-up approach (in particular)
  - Database
  - accessible for local government and community
  - Good practices
  - System for stakeholder involvement
  - IVA Guidance for infrastructure projects planned by local government
Question (4) Possible collaboration

- World Climate Research Programme (WCRP)
  - CORDEX Asia (Coordinated Regional climate Downscaling Experiment Asia)
- Global change research community
  - Contribution to the “Future Earth” process
- [Innovative approach]
  - United Nations University
    - Training course for early career scientists and practitioners (1st APN-UNCECAR joint training course: November 11-23, 2012, Bangkok, Thailand)
- Asian Development Bank
  - Data sharing, joint analytical works and joint capacity building projects on climate risk assessment tools
  - A regional climate scenarios and library
Question (4)  
Possible collaboration

• [Innovative approach]
  • Japan International Cooperation Agency
    • Good practices for mainstreaming adaptation into development projects
  • Asia-Pacific Adaptation Network (APAN)
    • Utilizing databases for developing assessment tools and for capacity building activities
      • Database of good practices on adaptation
      • Database of adaptation technologies
      • Adaptation Forum
  • Ministry of Interior, Thailand
    • Development of climate risk assessment tools for community-based adaptation
  • Institute of Global Change Adaptation Science (ICAS)
    • Contribution from Japanese Research Community
Suggestions for Future APN Strategic Programme to Enhance Climate Adaptation in the Asia-Pacific Region

- The new programme aims to enhance science-based adaptation activities of APN developing countries and comprises the following components:
  - Regional research programme that has a capacity building element
  - 2) capacity building programme (including projects at national and sub-national scales)
  - 3)activities jointly conducted with other organizations and networks

Activities in priority

- Regional research and capacity building projects should contribute to improving applicability by users, focusing on the following themes:
  - Development of high-resolution observational, model and downscaled datasets that can contribute to filling data gaps
  - Sharing of needs-oriented data
  - Calibration and validation of regional climate models and analysis of projections and assessment of uncertainties
  - Development and utilization of impact, vulnerability, risk and economic assessments
  - Improvement of communication skills of scientists and practitioners with stakeholders including local government, community, private sector and civil society, for encouraging policymakers to formulate and implement adaptation plans based on the latest scientific knowledge
  - Utilisation of available information including climate data in applications for adaptation

Outcome of the Scoping Workshop

APN New partnerships (under development)

- ADP
  - Collaboration on a regional climate change communications and library in the areas of monitoring of data collection, research, training and dissemination
- DFID
  - Collaboration on needs assessment of users in national and local levels
- APN
  - Multi-year millennium development projects for awareness and practitioners on climate adaptation including themes: adaptation plans and "how to do it" activities and organization of a follow-up meeting for recommendations on strengthening partnerships at the 2013 Adaptation Forum
- ICAS
  - Involvement of Japanese scientists for adaptation activities implemented by APN and its partners
  - Organization of follow-up events with APN
- Ministry of Interior, Thailand
  - Cooperation with the APN National Focal Point for Thailand on development of community-based adaptation activities that involve local governments and communities in Thailand
- UNESCO
  - Training activities for scientists and practitioners on climate adaptation including modeling, downscaling, etc.
- WCRP
  - Collaboration with COREX Asia capacity development in climate downscaling

Involvement in UNFCCC Process

Input to the Expert meeting on a range of approaches to address loss and damage associated with the adverse effects of climate change, Bangkok, Thailand, 27-29 August, 2012
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  - Utilization of available information including climate data in applications for adaptation
APN new partnerships (under development)

ADB
- Collaboration on a regional climate scenarios consortium and library in the areas of coordination of data collection, rescue, mining and calibration
- Collaboration on needs assessment of users at national and local levels

APAN
- Multi-year collaboration on capacity development for scientists and practitioners on climate adaptation including themes on adaptation plans and “train the trainers” activities
- Organization of a follow-up meeting for recommendations to strengthen partnerships at the 2013 Adaptation Forum

ICAS
- Involvement of Japanese scientists for adaptation activities implemented by APN and its partners
- Organization of follow-up events with APN

Ministry of Interior, Thailand
- Cooperation with the APN national Focal Point for Thailand on the development of community-based adaptation activities that involves local governments and communities in Thailand

UNU (UN-CECAR)
- Training activities for scientists and practitioners on climate adaptation including modeling, downscaling, resilience, etc

WCRP
- Collaboration with CORDEX-Asia on capacity development in climate downscaling
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