

# APN

Asia-Pacific Network for Global Change Research

## **PROCEEDINGS** of the **14th Inter-Governmental Meeting (IGM)/ Scientific Planning Group (SPG) Meeting**

**Kuala Lumpur, Malaysia  
18-20 March 2009**



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## PREFACE

The APN's 14<sup>th</sup> joint Inter-Governmental Meeting (IGM) and Scientific Planning Group (SPG) Meeting successfully convened in Kuala Lumpur, Malaysia, from 18-20 March, 2009. This Meeting and the associated committee meetings that were held prior to the main joint IGM/SPG Meeting were hosted by the Ministry of Science Technology and Innovation (MOSTI) through its agency, Malaysian Meteorological Department (MMD).

This year's IGM/SPG Meeting approved 33 projects under the Annual Regional Call for Research Proposals (ARCP) and the Scientific Capacity Building and Enhancement for Sustainable Development in Developing Countries (CAPaBLE) Programmes for funding in 2009-2010. The APN hopes that the results of the projects' research and capacity building activities will contribute to science and policy development relating to Global Change in the Asia-Pacific region and provide input to the Intergovernmental Panel on Climate Change Fifth Assessment Report (IPCC AR5).

Another major outcome of the IGM/SPG Meeting is the endorsement of a climate synthesis activity. This is regarded very timely in that the results are expected to feed into the IPCC SR5 due for release in 2014. The Meeting also approved a focussed activity on Scientific Capacity Building for Climate Impact and Vulnerability Assessments under the Capacity Building pillar of the CAPaBLE Programme.

Recognising that effective communication is crucial to the success of any organisation and noting that the APN has been implementing a number of specific actions to realise the broad strategies in many communication aspects that are highlighted in the APN Second Strategic Plan (2SP) under the Institutional Agenda, the IGM adopted a new communications strategy devised by the Secretariat.

This year's IGM/SPG Meeting elected new Steering Committee (SC) Members, including a new SC Chair and SPG Co-Chair, to work together and in close interaction with the Secretariat to guide the APN in the intercessional period between the IGMs for the next two years (2009-2011). The full contact details of the new SC members are posted under the *Who's Who in APN?* section of the APN website.

The Operating Plan for 2009-2010 was endorsed and the Secretariat was requested to continue implementing the Operating Plan. It was also agreed to continue APN efforts in Sub-Regional Cooperation (SRC). The APN members were divided into their respective sub-regions and were given the opportunity to discuss relevant issues at the sub-regional level and brainstorm on the way forward in the SRC parallel session. Representatives of each sub-regional committee reported the results of their respective discussions to the IGM.

With regards to the evaluation of the Second Strategic Phase (2005-2010) which is currently underway, the IGM expressed high hope that this would lead to the effective development/formulation of a third strategic plan. Two major outputs are expected by the end of March 2010: a detailed evaluation report for institutional purposes and a brief glitzy report for policy-makers, stakeholders, GC partners and the general public.

In forging stronger collaboration with the Hyogo Prefectural Government, a number of activities were endorsed: 1) Building a Sound Scientific Basis for Low Carbon Societies for Sustainability; 2) Climate Synthesis Scoping Workshop; and 3) Partnership with the ASEAN Centre for Biodiversity (ACB) for the ASEAN Biodiversity Conference.

To further raise the visibility of APN at high-level science-policy fora, the Meeting agreed to be actively involved in the following events: 17<sup>th</sup> Session of the United Nations Commission on Sustainable Development (UNCSD-17) by conducting a Proposal Development Training Workshop and showcasing the APN via an exhibition booth;

Informal Dialogue Meeting at 30<sup>th</sup> Session of the Subsidiary Body for Scientific and Technological Advice (SBSTA30); and United Nations Framework Convention on Climate Change 15<sup>th</sup> Conference of the Parties/Meeting of the Parties (UNFCCC COP/MOP 15) and SBSTA31; and other relevant global environmental change events.

The Meeting, indeed, indicated the right way forward and outlined the priorities that must be achieved over the next year.

Major activities undertaken by the APN since the 13<sup>th</sup> IGM/SPG Meeting, including the successful conduct of the APN's First Proposals-Writing Training Workshop, were reported and the Meeting agreed to publish a flyer highlighting the network's major achievements in 2008/2009. The flyer will be translated in the vernacular language of the APN member countries and disseminated at the community, local, national and regional levels. The newly published 2007/2008 Annual Report and Volume 4 of the Project Bulletin, were presented to Members. These were considered very useful tools to highlight the work of the APN, particularly for policy-makers and the general public. APN's representation at national and international events was acknowledged as a strategic step in raising its visibility and recognition particularly in the Asia-Pacific region.

The APN was thankful for the annually consistent presence of representatives from the global change community: Inter-American Institute for Global Change Research (IAI), Earth System Science Partnership (ESSP); International Council for Science Regional Office for Asia and Pacific (ICSU-ROAP); Southeast Asia Regional Center for START-SysTem for Analysis Research and Training (SARCS); Temperate East Asia Committee for START (TEACOM); and Universiti Kebangsaan Malaysia. IAI, ESSP and University Kebangsaan Malaysia who provided informative and interesting updates on major and ongoing activities being carried out by their respective organisations during the Informal Dialogue Session.

Let me express my earnest gratitude for the open and active involvement of the participants (including representatives from various Global Change Programmes and partner organisations) of the 14<sup>th</sup> IGM/SPG, which, I am confident, will contribute to the greater success of the APN in the coming years. I urge you to continually promote APN and its activities at the national, sub-regional, international, regional and global level whenever there is an opportunity and I also welcome your suggestions on how we can further improve our efforts. With pride and optimism, I look forward to APN's further progress and development relying on your support and cooperation. Again, sincere gratitude to all who were involved in realising a very successful IGM/SPG Meeting



Tetsuro Fujitsuka  
Director  
APN Secretariat



**National Focal Points:**

Bangladesh – KHAN (8)  
 Cambodia – SEM (4)  
 Indonesia – KARTAKASUMA\* (44)  
 Japan – TADAMI\* (20)  
 Lao PDR – BOUNVILAY (3)  
 Malaysia – YAP (42)  
 Mongolia – DASHZEVEG (24)  
 Nepal – KHANAL (33)  
 New Zealand – MATTHEWS (41)  
 Pakistan – HAFEEZ (34)  
 Rep. of Korea – KIM\* (2)  
 Sri Lanka – JAYATILAKE (36)

Thailand – TUMMAKIRD (19) and  
 SURAPHRUK (18)

USA – BROWN (37)  
 Viet Nam – NGUYEN (30)

**Scientific Planning Group Members:**

Bangladesh – MIAH (9)  
 Cambodia – HOURT (7)  
 China – DONG (14)  
 Fiji – PRASAD (27)  
 India – GOSWAMI (21)  
 Japan – MIMURA (13)  
 Lao PDR – ONGKEO (12)

Malaysia – MOTEN (45)  
 Mongolia – JAMSRAN (25)  
 Nepal – SHRESTHA (22)  
 New Zealand – MATTHEWS (41)  
 Pakistan – MUHAMMED (26)  
 Philippines – TANDUG (32)  
 Rep. of Korea – SONG (1)  
 Russian Federation – STERIN (10)  
 Sri Lanka – DHARMARATNA (23)  
 Thailand – BOONJAWAT (30)  
 USA – TUPAS (6)

**Invited Experts to SPG**

SARCS – WANG (28)  
 TEACOM – AILIKUN (5)

**Guests and Global Change Partners**

ESSP – RICE (29)  
 ICSU ROAP – HASAN (35)  
 MMD, Malaysia – ISMAIL (17)  
 MOST, Malaysia – TUAN HAJI FADILLAH  
 MOST, Malaysia – DATIN MADINAH  
 UKM – ABDULLAH (31)

**APN Secretariat**

FUJITSUKA (38)  
 GARCIA (15)  
 IMANARI (11)  
 PULHIN (16)  
 STEVENSON (43)

*\*nFP or SPG Member alternate*

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## **SECTION I**

**14<sup>th</sup> Inter-Governmental Meeting/  
Scientific Planning Group Meeting**

**Kuala Lumpur, Malaysia  
18-20 March 2009**

**Chairperson's Summary**

## Chairperson's Summary

### 14<sup>th</sup> Inter-Governmental Meeting (IGM/ Scientific Planning Group (SPG) Meeting 18-20 March 2009, Kuala Lumpur, Malaysia

Delegates from Bangladesh, Cambodia, China, Fiji, India, Indonesia, Japan, Lao P.D.R., Malaysia, Mongolia, Nepal, New Zealand, Pakistan, Philippines, Republic of Korea (ROK), Russian Federation, Sri Lanka, Thailand and the United States of America (U.S.A.) attended the Meeting. Invited experts and representatives from the following Global Change Programmes and partners were also represented at the Meeting: Earth System Science Partnership (ESSP), International Council for Science Regional Office for Asia and the Pacific (ICSU-ROAP), Southeast Asia Regional Center for START (SARCS), Temperate East Asia Committee for START (TEACOM), Universiti Kebangsaan Malaysia. The list of participants is provided as **Attachment I**.

#### Session One

##### 1. Welcome Remarks from the National Focal Point of Malaysia

The APN national Focal Point (nFP) for Malaysia, Dr. Kok Seng Yap, welcomed the participants to Malaysia (Welcome remarks is provided as **Attachment II**). Dr. Yap highlighted that global environmental change is one of the biggest challenges facing mankind today. For policy-makers to formulate the right policies to minimise the impacts of human activities on the global earth system and the impacts of global environmental change on us, systematic observation and research on understanding the impacts of human activities on the earth system, the projected changes and the linkage between such sciences for policy-making are required.

While discussing the APN's role in global environmental issues, he noted his understanding that the quality of research proposals that APN receives annually has seen a steady increase over time. He noted the heartening point that scientists from developing countries are becoming more directly involved in many APN sponsored research activities and, today, in some countries in the Asia-Pacific, there is a larger pool of scientists who are committed and well-trained to undertake global change research. This is due, at least in part, to the APN efforts.

He ended by stressing that, in the coming years, he hopes the APN will be successful in developing more funding from donor organisations and agencies to enable more capacity building activities and much-needed research in the region. He expressed his hope that the developed countries would, in order to achieve this objective, continue to increase their funding to APN despite the ongoing economic and financial crisis in their countries.

##### 2. Welcome Remarks from the APN Secretariat Director

The Secretariat Director, Mr. Tetsuro Fujitsuka, welcomed all participants to the 14<sup>th</sup> IGM and SPG Meetings, particularly those new nFPs and Scientific Planning Group (SPG) Members attending for the first time (Opening Remarks is provided as **Attachment III**). He expressed his sincere gratitude to the Malaysian Government for hosting the Meetings and for providing a warm welcome to the APN.

Following a brief history of the APN, Mr. Fujitsuka noted the striking and unique characteristics of the APN in that both scientists and government officials work together to enhance global change research in the Asia-Pacific region. He underscored the strong support of the APN member countries in enabling scientists in the region to cooperatively

develop research projects under the APN's Annual Regional Call for Research Proposals (ARCP), and Comprehensive Research Projects (CRP) and Capacity Building Projects under the APN's Capacity Development Programme, CAPaBLE.

Before finishing, Mr. Fujitsuka expressed his strong earnest in interacting with all delegates in the three days ahead and looked forward to continued positive contributions and cooperation for further success, not only during the deliberations, but also in the coming year.

Finally, Mr. Fujitsuka relayed the message from the Governor of the Hyogo Prefecture, Japan, Mr. Toshizo Ido to the participants of the IGM/SPG Meeting (Message is provided as **Attachment IV**).

### **3. Opening Address**

The opening address (provided as **Attachment V**) was delivered by the Honourable Deputy Minister of Science, Technology and Innovation, Malaysia, Y.B. Tuan Haji Fadillah Bin Haji Yusof. The Deputy Minister expressed immense pleasure in hosting the 14<sup>th</sup> IGM noting, in particular, that Malaysia had the honour of hosting the 1<sup>st</sup> Meeting of the SPG in Malaysia in 1996.

On behalf of the Government of Malaysia, the Deputy Minister extended a warm welcome to their distinguished friends from overseas. He noted that the Asia-Pacific region has a unique position in the diverse and complex natural environment of the globe, emphasising that the region has more than half the world's population and is experiencing phenomenal economic growth as well. In particular, he noted the heartening fact that research projects funded by the APN are initiated by the member countries who collaboratively highlight issues of relevance.

The Deputy Minister stressed that it is important for the developing countries of this region to support regional initiatives, particularly through implementation of research programmes at the national level that could enhance understanding of the regional perspective of global science. The Deputy Minister expressed his hope that the Meeting would steer greater cooperation and commitment towards the understanding and tackling of global environmental issues for the benefit of all mankind.

He ended by thanking wholeheartedly the members of the APN, particularly Japan, for their strong support and leadership in making this regional network a success.

### **4. Group Photograph**

All members, experts, guests and staff gathered for a group photograph.

### **5. Election of Officers**

The Secretariat Director proposed that the nFP for Malaysia, Dr. Yap, be elected as the Chair, and that the current Acting Steering Committee (SC) Chair and the nFP for the U.S.A., Mr. Louis Brown, be elected as the Vice Chair. This was accepted by acclamation. The Chair and Vice Chair were invited to take their positions and both thanked the Meeting for their support and invited their cooperation in the ensuing deliberations.

### **6. Item 1: Adoption of the Agenda**

The Chair asked the Meeting to consider the agenda for the next three days. No changes were made and the agenda was adopted as presented.

<b>Session Two</b>
--------------------

**7. Item 2: Major Activities in 2008/2009**

The Secretariat Scientific Officer, Dr. Linda Anne Stevenson reported on the activities of the APN from April 2008 to March 2009 on behalf of the SC Chair and nFP for the Philippines, Mr. Samuel Peñafiel. In the report, she highlighted the major activities that had been conducted, including the research and capacity building projects funded under the ARCP and CAPaBLE programmes as well as the launch of the CAPaBLE Phase III Call for Comprehensive Research Proposals. She also noted the completion of the evaluation of CAPaBLE Phase I, which ran from April 2003 to March 2006, the report of which would be presented by the Capacity Development Committee (CDC) during the Meeting.

The Secretariat Scientific Officer indicated that the APN had been represented at various project-related and other global change (GC) conferences, seminars and workshops at the national, regional and international levels. She noted issues beyond the 14<sup>th</sup> IGM, including: implementation of CAPaBLE Phase III; an APN Climate Synthesis; resources development; initiation of the process to perform an evaluation of the 2<sup>nd</sup> Strategic Phase; and formulation of the Third Strategic Plan (3SP), an activity which had been endorsed at the 13<sup>th</sup> IGM. Following the presentation, the Vice Chair opened the floor for discussion.

The nFP for the U.S.A. noted that this was a very positive and encouraging report and that the APN seems to be more engaged in activities in the region. In noting the recent collaboration with GEOSS/AWCI, it was stressed that water issues in the region were important and APN should continue to strengthen its efforts in this area.

The APN's 3<sup>rd</sup> International Biodiversity Seminar was also highlighted and, in this context, the nFP for the U.S.A. stressed the importance of engaging DIVERSITAS in such activities. The occasion of the 10<sup>th</sup> Conference of the Parties to the United Nations Convention on Biological Diversity (CBD/COP10) in October 2010, Nagoya, Japan would be a good opportunity for further collaboration.

**Action: Secretariat**

The Coordinator of the Earth System Science Partnership (ESSP), Mr. Martin Rice, noted the successful side-event of the APN and the Inter-American Institute for Global Change Research (IAI) at the 28<sup>th</sup> Subsidiary Body on Scientific and Technological Advice for the United Nations Framework Convention on Climate Change (UNFCCC/SBSTA28), as well as the informal meeting between the Parties and the global change (GC) research community, including the APN. He informed the Meeting of the opportunity to continue this dialogue with the Parties at SBSTA30 on 3<sup>rd</sup> June, 2009.

The Secretariat Scientific Officer noted that, in terms of communication and dissemination of APN activities, all members of the APN are provided with hard and soft copies of collated project activities approximately two months following the award announcement of new projects endorsed for funding at the recent IGM. Project Leaders are also strongly encouraged to contact their respective nFPs and SPG Members in their respective countries for information exchange on project activities.

The translation of the APN flyers was considered a positive step in raising the APN profile in member countries and the efforts of members to undertake the translation of the APN flyers was highly appreciated.

It was proposed that the Secretariat continue to produce annual flyers highlighting the major activities of the APN. This proposal was adopted.

**Action Secretariat**

**8. Item 3: Report on the APN Proposal-Writing Training Workshop**

The SPG Member for Bangladesh, Prof. Giashuddin Miah, reported on the outcomes of the APN's 1st Proposal-Writing Training Workshop, which had been held in October 2008 in Shanghai, China. This Meeting was held back to back with the 8<sup>th</sup> Conference of the Environmental Management of Enclosed Coastal Seas (EMECS8). The SPG Member for Bangladesh highlighted the success of this activity and strongly recommended that these kinds of training sessions be continued in the future in other countries in the region.

The SPG Member for the U.S.A., Dr. Luis Tupas, noted that the technical aspect of the proposal-writing workshop was very important for scientists and the APN should use this forum as a vehicle for trainees to raise and discuss common regional issues.

The APN Secretariat Director expressed his hope that this activity would increase the number of proposals submitted to the APN for funding, particularly from early-career scientists in developing nations of the APN.

It was suggested by the SPG Member for Malaysia, Dr. Subramaniam Moten, that the materials presented at the workshop be disseminated on the APN website. This was agreed.

**Action: Secretariat**

The nFP Alternate for Thailand, Ms. Aree Wattana Tummakird, proposed that the workshop activities be renamed as Proposal Development Training Workshops. This was agreed.

**Action: Secretariat**

**9. Item 4: Financial Reporting**

The Secretariat Executive Manager, Mr. Yukihiro Imanari, presented a final financial report for 2007/8 for approval by the IGM and a draft financial report for 2008/9. In his presentation Mr. Imanari noted the milestone of having NSF funds directly transferred to the APN account via the START International Secretariat for sole management by the APN. The nFP for U.S.A. commended the Secretariat for responding to the action points at the 10<sup>th</sup> SC Meeting in changing the way in which the financial reports were presented so as to give a more realistic perception of how the funds are being used. The floor was opened for discussion.

The nFP for New Zealand, Dr. Andrew Matthews, suggested that a footnote be added regarding the changes in the budget and accounting procedures.

**Action: Secretariat**

The final financial report for 2007/8 was approved by the Meeting.

**10. Item 5: Membership Development**

The Secretariat Coordinator, Ms. Perlyn Pulhin, introduced the new Members of the APN, including nFPs, SPG Members and Secretariat staff. She reported that four new nFPs and five new SPG Members had been appointed since the 13<sup>th</sup> IGM/SPG Meeting.

The nFP for the U.S.A. suggested that the APN reconsider the current approved status of Singapore in the APN and whether this status should be removed, as it was reported at this IGM Meeting Singapore has decided to defer its decision on whether to join the APN as a full member. Following further discussion, it was agreed that the APN Secretariat will continue to engage Singapore in membership discussions, particularly in light of the opportunity for APN to showcase its activities at the ASEAN Conference on Biodiversity in

Singapore in October, 2009. In addition, to facilitate negotiations, the Secretariat is to draft a letter, which is to be signed by the SC Chair, and posted to the Government of Singapore at a high level.

**Action: Secretariat and SC**

### Session Three

#### **11. Item 6: Communications Strategy**

The Secretariat Coordinator introduced the draft Communications Strategy to Members for information and reminded them that the item paper was for further discussion and approval on day two (under Item 12). She provided a brief presentation on how communication aspects are highlighted in the APN Second Strategic Plan (2SP), past and ongoing communication efforts and how communication can be used as a tool in empowering APN Members. The Members were requested to read the draft Communications Strategy out of session and be prepared to discuss under Item 12 on day two 2.

**Action: All**

#### **12. Item 7: Evaluation of the 2008/2009 Operating Plan (OP)**

The Secretariat Director explained the procedure for evaluating the 2008/9 Operating Plan, noting that the draft evaluation was included in Members' folders under the present item. He referred the Members to the middle column of the Operating Plan explaining that it outlined details of the Secretariat's evaluation of its performance over the past year.

He explained that the evaluation of performance is based on the activities outlined in the three agendas of science, policy and institutional, as outlined in the second strategic plan. The Secretariat Director noted that the draft 2009/10 Operating Plan was available to members for information and further discussion.

The Secretariat Director suggested that the Members read the draft evaluation and the draft 2009/10 Operating Plan out of session. Both items would then be presented for discussion and endorsement on day three of the Meeting under Item 18. The Vice Chair asked the delegates to review the documents as suggested for further discussion under Item 18.

#### **13. Item 8: Country Reports (CRs)**

The Secretariat Coordinator briefly presented the results of the Country Report (CR) Analysis based on the twenty (20) reports submitted by nFPs for the 14<sup>th</sup> IGM. In the report a general overview was provided on, among other things, emerging scientific themes, the influence of international assessments and conventions in formulating national strategies for climate change, and national-level best practices in science and policy interactions.

A tour of the table followed, during which each nFP gave a brief update on developments/emerging issues of priority in their respective countries that had not been included in their submitted CRs. Following this, the floor was opened for discussion.

It was suggested that, while the CR analysis was a good document in providing a general overview of the trends in the Asia-Pacific Region, it could be more informative if the individual CRs could be shared with the Members. However, the consensus was that, due to the sensitive nature of the documents and how they might be portrayed and/or misinterpreted if circulated in the public domain, the CRs would not be distributed to the Members. Rather, the Secretariat would provide more specific information upon request.

**Action: Secretariat**

It was also agreed that more key contacts would be added to the list of key contacts generated from the analysis. This list would be provided in the 14<sup>th</sup> IGM proceedings and the Members were asked for their cooperation in this task. Further, the importance of the role of nFPs was stressed in facilitating communications with the APN and their governments, scientific communities, research centres and other organisations.

**Action: nFPS, SPG members, Secretariat**

**14. Item 9: SRC Background/Activities**

The Secretariat Coordinator provided a brief overview on the background of sub-regional cooperation activities, particularly activities that had been carried out in the Southeast Asia (SEA) sub-region over the past year. Information was then provided on the parallel sessions for sub-regional cooperation in which groups would be asked to gather in their respective sub-regional groups of SEA, South Asia (SA), Oceania and the Pacific (OAP), and Temperate East Asia (TEA).

The purpose of these sessions was to discuss cooperation among nFPs and SPG Members in facilitating communications, sharing information and discussing common issues at the sub-regional level. The Vice Chair stressed that, when the groups meet, there should be a great deal of flexibility in how, if any, sub-regional cooperation via a committee is generated and which partners, by way of scientific organisations, are invited to attend/join these groups, if any.

**15. Item 10: Parallel Session (SRC)**

The members grouped into their respective sub-regions to discuss the way forward for each sub-regional committee. A report from each sub-regional group would be presented in the morning of day two under Item 11.

**Session Four:**

**16. Item 11: SRC Report/Conclusion**

The Chair thanked the members for their work the previous day and asked each sub-group to provide an overview of their discussions. Reports were then delivered by TEA, OAP, SEA and SA. The reports are attached as **Attachment VI**. In summary, all Members stressed the importance of sub-regional cooperation not only among nFPs and SPG Members but with other research and decision-making communities. Particularly stressed was the importance of information exchange among the countries to facilitate relevant scientific research at the sub-regional level.

Of the four groups it is clear that TEA and OAP did not feel that formally establishing sub-regional committees was high priority, since existing mechanisms are fully adequate for this purpose. The needs of SA are quite clear and the sub-region would like to establish a sub-regional committee. SEA has already established a sub-regional committee and will be planning the 2<sup>nd</sup> SEA Sub-Regional Committee Meeting in August or September 2009.

**Action: nFPs and SPG Member for SEA, Secretariat**

The Chair summarised the discussion noting that each sub-region showed different needs and requirements so further discussion is needed before the APN can think of formally establishing these committees in the framework document. The Secretariat reported that the APN has US\$25,000 to facilitate sub-regional meetings in SA and SEA. However, at this time, these are to be considered as informal committees/groups and the status of the sub-regional groupings will be addressed again by the Members at the 15<sup>th</sup> IGM. This includes steps towards improving collaboration with the international programmes based in the sub-regions with, for example, ICSU-ROAP and START.

**Action: Secretariat, nFPs and SPG members from SEA and SA**

**17. Item 12: Communications Strategy**

The Secretariat Coordinator presented the draft Communications Strategy for discussion and approval. In her presentation she highlighted the key items in the Communications Strategy and emphasizing that it had been devised to facilitate communications and outreach in the region. Other key tools for communications and outreach would be attractive publications, the APN Website and the APN's Electronic Mailing List (EML). She further stressed the importance of press releases, policy briefs and synthesis reports, and reported that these would be written to ensure that the results of APN activities are communicated effectively to decision-makers and to the general public.

The Chair opened the floor for discussion. The nFP for New Zealand agreed with the ESSP Coordinator that the Communications Strategy was comprehensive, not only for the APN but also for the wider global change community as well. The Members also agreed that the strategy would provide increased visibility for the APN.

Further suggestions and comments were made along the following lines:

- The Secretariat was requested to prepare a small number of printed newsletters for distribution
- The Secretariat was requested to clearly identify the target audience(s) of the Communications Strategy
- The document is very important in facilitating communications with, in particular, the Global Change programmes and strengthening their relationships and it is pertinent to share the strategy with the GC community to strengthen the engagement of the GC community in APN activities.

The Communications Strategy (provided as **Attachment VII**) was proposed for endorsement by the SPG Member for Pakistan, Dr. Amir Muhammed; seconded by the nFP for New Zealand and adopted by the Meeting.

**Action: Secretariat**

**Session Five**

**18. Item 13: SPG Report to IGM**

On behalf of the SPG, the SPG Co-Chair and SPG Member for Sri Lanka, Dr. G.H.P Dharmaratna reported to the IGM on the scientific activities of the APN, which had been discussed in detail at the SPG Pre-Meeting that had been held the previous day. In his presentation, the SPG Co-Chair noted a number of activities, including the ARCP and CAPaBLE Annual Calls for Proposals and subsequent recommendations that will be presented to the Meeting (under Item 22) for IGM consideration; the APN's policies on data sharing and management; and a conflict of interest policy for reviewers, proponents and APN staff. Emerging themes were also considered including issues of importance generated from analysis of the 14<sup>th</sup> IGM Country Reports.

With regards to the APN's data policy, the nFP for the U.S.A. noted that the budget for the APN is increasing and with these increases in funding, the APN and its programmes are becoming more visible. As such, he suggested that the APN, over the next year, look closely at its data policy with the aim of strengthening it to ensure full and open access to data generated by APN-funded projects.

Similarly, the APN's Conflict of Interest (COI) Policy for the proposals process was considered not as strong as it could be. It was recommended that this Policy be revised to ensure that APN staff and reviewers work in an ethical manner. In particular, a strengthened COI will provide assurance that persons involved in the process, especially reviewers and APN staff, act in an open and unbiased manner.



It was agreed that the APN would work on the two documents for presentation at the 15<sup>th</sup> IGM/SPG Meeting for consideration and endorsement.

**Action: Secretariat, SC and SPG-SC**

It was stressed during the discussions that the results of the scientific research funded by the APN should be fed into the 5<sup>th</sup> Assessment Report of the Intergovernmental Panel on Climate Change (IPCC AR5). The nFP Alternate for Thailand expressed her willingness to coordinate the process.

**Action: Secretariat, nFPs particularly Thailand, SPG Members**

The SPG Co-Chair and SPG Member for Sri Lanka also noted that the SPG had elected a new SPG Co-Chair for a 2-year term, the SPG Member from Indonesia, Dr. Erna S. Adiningsih and a new SPG Sub-Committee Member for a 1-year renewable term, the SPG member for Bangladesh. The IGM endorsed the elected persons and thanked the SPG Member for Sri Lanka and the SPG Member for Malaysia for their service to the SPG and IGM as SPG Co-Chair and Member of the SPG Sub-Committee, respectively, for the period 2006-2008.

Following a discussion on the science agenda and the review of the scientific themes, the SPG noted that the present APN scientific themes remain highly valid and that thus they considered it unnecessary to identify additional themes to those agreed by the 12<sup>th</sup> and 13<sup>th</sup> IGMs. For example, it was pointed out that essentially all of the scientific issues identified at this SPG and IGM could be covered adequately by the existing themes. The Chair moved accordingly to endorse the existing themes for one more year. The IGM agreed.

**Action: Secretariat**

#### **19. Item 14: CDC Report to IGM**

In the CDC report to the IGM, the SPG Co-Chair and SPG Member for New Zealand, Dr. Andrew Matthews, highlighted the progress of the CAPaBLE programme over the past year. In particular, he highlighted the completed evaluation of Phase I of the CAPaBLE Programme, which focused on climate change, and that, in general, CAPaBLE was considered as having excellent outputs during this phase.

He noted that the two comprehensive research projects (CRPs) had produced a significant number of reports, proceedings and peer-reviewed papers, a number of which had been cited in the 4<sup>th</sup> Assessment Report (AR4) of the IPCC. He also highlighted that the CDC and SPG Members would be looking more closely at the recommendations highlighted in the report in order to come up with robust recommendations for the future.

The SPG Co-Chair and SPG Member for New Zealand then provided a summary of the two calls for proposals that had been launched under the CAPaBLE programme in 2008, the results of which would be presented to the IGM for endorsement under Item 21 of the present Meeting.

In the discussion that ensued, the following points were noted:

- The ESSP is launching an open journal in the Elsevier Global Environmental Change Series later in 2009. Contributions from the activities of the CAPaBLE programme, and other APN activities as well, would be pertinent and welcomed.
- The project leaders of training and awareness-raising workshops are to continue to extend invitations to the nFPs and SPG Members of the countries where the workshops are being held, as attendance at various meetings had been very useful.

**Action: Secretariat, CDC and SPG**

Following the discussions, the Chair moved to endorse the Phase I Evaluation Report (Revision 1). This was endorsed by the Members.

**Session Six:**

**20. Item 15: Evaluation of the 2<sup>nd</sup> Strategic Phase and Formulation of the 3<sup>rd</sup> Strategic Plan**

The Secretariat Coordinator presented on progress of the 2<sup>nd</sup> Strategic Phase evaluation. She explained that the evaluation would be in two parts: (1) A review of the APN network, and (2) a review of the funded project sets under the ARCP and CAPaBLE programmes. She stressed that the process for the evaluation and progress to date had the full involvement of the SC. As such, suggestions/guidance provided at the 10<sup>th</sup> and 11<sup>th</sup> SC meetings had already been incorporated.

The Secretariat Coordinator noted that a writing team is expected to be formed to facilitate the writing of the 3<sup>rd</sup> Strategic Plan (3SP) for endorsement at the 15<sup>th</sup> IGM. This would be considered further at the interim SC Meeting that would likely take place around the end of August 2009. An augmented SC meeting (ASCM) would also discuss, at this time, the results of the scientific evaluation of the second strategic phase.

Following detailed discussion, the process of the evaluation was endorsed and the Secretariat was instructed to ensure that all Members were kept informed of progress throughout the process. The nFP for the U.S.A. also stressed that the Secretariat allow the group involved in the evaluation to have a degree of flexibility in implementing the evaluation, particularly with regards to the timeframe.

**Action: Secretariat**

**21. Item 16: Election of the SC Members**

The SC Acting Chair provided the process taken so far regards the nomination of candidates. The members were also alerted to the small change in the mandate of the SC and were asked to agree on the revised mandate before considering nominations for the new SC (2009-2011). To facilitate the discussions members were alerted to the current members on the SC as well as the process for electing a new committee.

Following the discussions, nFPs from Malaysia; Mongolia, Mr. Bayarbat Dashzeveg; and ROK, Mr. Jung-kyun Na, were nominated by delegates from New Zealand (nFP); Japan (nFP Alternate, Mr. Yasushi Tadami); and Thailand (nFP Alternate), respectively. The nominations were accepted by acclamation. In addition it was also noted that the SPG Members for New Zealand and Indonesia, as SPG Co-Chairs, would serve on the SC as Ex-officio Members.

**Session Seven**

**22. Item 17: Proposed New Activities**

The Secretariat Director presented the following proposed new activities: (1) Climate Synthesis of APN Projects (2-year activity; budget US\$50-100,000); (2) Scientific Capacity Building for Climate Impact & Vulnerability Assessments (US\$150,000); (3) Hyogo Prefecture Government Collaborative Activities (US\$30,000); and (4) APN Visibility at Science-Policy Fora (US\$30,000 and the APN Secretariat travel budget).

The Vice Chair thanked the Secretariat Director for his presentation and alerted the Members to the papers distributed by the Secretariat before opening the floor for discussion. In discussing the activities sequentially, the following points were highlighted:

(1) Climate Synthesis

During the thorough discussion that ensued under Sub-item (1), the following comments and suggestions were noted:

- There is a need to look into the impacts of climate change on water resources.
- The Secretariat is to ensure involvement of all the APN organs in the synthesis activity.
- The Secretariat, together with the SPG Sub-Committee, is to identify the purpose of the synthesis, what kinds of information it will require, and its specific scope.
- The synthesis activity is regarded as very timely in that the outcomes will contribute to the IPCC AR5 due for release in 2014. As such, every effort is to be made to feed the results of the synthesis activity into the IPCC AR5.
- The APN Secretariat is to ensure that a clear plan and timeframe is developed.
- The APN Secretariat is to inform the Members of the plan and timeframe in a timely manner so they can provide timely and appropriate suggestions to aid the synthesis activity and thus assure that the report is useful and relevant.

**Action: Secretariat**

The new activity was endorsed.

(2) Scientific Capacity Building for Climate Impact & Vulnerability Assessments

During the discussions that ensued under Sub-item (2), the following points were noted:

The SPG Member for the U.S.A. suggested that there be a separate call for proposals and those proposals should come from and be led by one country. He also stressed the need to identify a local government unit that will have a direct connection between the policy-making body and the technical/scientific community.

The Vice Chair highlighted that he could see APN moving in a new and unexplored area and he noted the importance of continually looking into geographical consideration and regional balance. It was stressed that the APN should also be careful in defining which proposals will be eligible for funding under this focussed activity.

It was noted that the participation of the Members is particularly important and the Secretariat should be careful in implementing this proposed activity. The Vice Chair also highlighted that the APN has been slowly but steadily moving towards an area of scientific capacity building. This was reflected in the increasing funding for capacity development under the CAPaBLE programme.

**Action: Secretariat**

The nFP for the U.S.A. indicated that, from the discussions in the Meeting, it appeared that many IGM delegates would like their nFPs to be more involved, as appropriate. The SPG Member for India, Dr. Bhupendra Nath Goswami, agreed on the point raised particularly on involving national Governments and confirming the active participation of local scientists to assure success of the proposed activity.

The SPG Member for Japan, Dr. Nobuo Mimura, stressed that, while it is important to focus in individual countries, regional implication is also important as some countries may have similar needs. He also recognised that the APN is often regarded as *only* a funding agency and that the APN itself should be proactive in initiating its own activities outside of funding independent projects through the calls for proposals process. This is to be considered further when developing a methodology for using the allocated funding for this activity.

**Action: Secretariat, CDC, SPG**

The Secretariat Scientific Officer stressed that the suggestions will be noted by the Secretariat and discussed in detail with the CDC and SPG-SC when formulating the methodology for implementation of the focussed activities. There will be a launch of an

independent call for proposals, probably in April 2009, under the Capacity Building pillar of the CAPaBLE programme.

**Action Secretariat, CDC, SPG-SC**

The SPG Member for Malaysia suggested that the APN should initiate a focussed training session on standardising a guideline for climate model downscaling from global to regional levels. It was agreed that this would be considered further by the CDC and SPG-SC.

**Action Secretariat, CDC, SPG**

Following further discussion specifically on the potential for continued financial support under this new activity beyond 2009/10, the nFP Alternate for Japan noted that the Ministry of the Environment, Japan (MOEJ) has made efforts to increase contributions and is hopeful that this will be continued in the future.

The nFP and SPG Member for New Zealand encouraged other Member countries to also consider providing funds to assure the continuity of the proposed new activity.

**Action: All**

The active discussions continued and a question was raised on the definition that APN uses for capacity building. The SPG Member for Japan provided an explanation, which he extracted from the definition outlined in the CAPaBLE Programme Terms of Reference.

The Vice Chair reminded the Meeting that the activities are being developed in response to an increased financial contribution from the MOEJ and he expressed his hope that the representatives from Japan could report to the MOEJ noting that issues related to the new activity were thoroughly discussed at the IGM.

The Vice Chair proposed that the new activity be endorsed with the understanding that the Secretariat will take into account the suggestions provided by the Members. The new activity was endorsed.

**Action: Secretariat**

(3) Hyogo Prefecture Government Collaborative Activities

Following the discussion that ensued under Sub-item (3), the following points were noted:

The nFP for the U.S.A. suggested that the APN work closely with DIVERSITAS in engaging in activities related to issues of biodiversity.

**Action: Secretariat**

The nFP for New Zealand reminded the Secretariat to broaden the involvement of APN Members in all the collaborative Hyogo Prefecture Government activities that are being proposed for IGM endorsement.

**Action: Secretariat**

The Secretariat Director emphasised that the Secretariat expects very strong involvement from APN member countries.

The new activities were endorsed.

(4) APN Visibility at Science-Policy Fora

Following the discussion that ensued under Sub-item (4), the following was noted:

The nFP for the U.S.A. encouraged APN to continue working with the IAI and explore opportunities where the two networks could make representation in various high-level science-policy fora.

**Action: Secretariat**

The new activities were endorsed.

**23. Item 18: Proposed 2009/2010 Operating Plan**

The Secretariat Director proposed the APN's 2009/2010 Operating Plan for discussion and approval by the Meeting. He referred the Members to the item paper on the Operational Plan and introduced items under the science, policy and institutional agendas of the 2nd Strategic Plan.

In the discussion that ensued, the following was noted:

The nFP Alternate for Indonesia, Mr. Dana Adyana Kartakusma, noted that the Operating Plan was very comprehensive and a good plan for the year ahead. He noted that, in the short-term Policy Agenda item that refers to whether the right questions are being asked regards policy relevancy, the APN should also consider issues related to climate change (such as land-use change and forests that are being pressured by human activities) and how the results of the science in these areas can feed into policy decision-making.

The nFP for Bangladesh, Md. Nazrul Islam Khan, noted the sense of obligation in terms of communication among the Members and he hoped that the Communications Strategy, as outlined under the short term institutional agenda, would facilitate strengthened communications. He also suggested that the need for research regarding the biological diversity of developing nations and small island states be considered further by the APN.

The nFP for Cambodia, Mr. Sundara Sem, expressed concern regarding the capability of the Secretariat to accomplish the large task of the short term plan in the year ahead due to the large number of activities outlined.

The nFP for the U.S.A. asked that the Secretariat consider giving greater priority (i.e. move it up on the list) to the bullet item that addresses the ARCP and CAPaBLE processes in terms of whether the right questions are being asked regards policy relevancy in the short-term Policy Agenda

**Action Secretariat**

The Operating Plan for 2009/10 (provided as **Attachment VIII**) was endorsed and the Secretariat was requested to continue implementing the Operating Plan.

**Action: Secretariat**

**24. Item 19: Proposed Budget Plan**

The Secretariat Executive Manager presented the APN 2009/10 proposed budget plan for discussion and endorsement by the Members, noting that the total revenue for the next fiscal year is expected to be US\$2,246,000 with US\$2,061,000 allocated for scientific and policy activities and US\$185,000 for administrative/overhead costs. He noted that the figures for additional contributions vis-à-vis fund matching and in-kind contributions were presented as estimated figures and that the Secretariat will aim to improve the document further to reflect the true nature of all contributions to the APN. In addition, efforts would be made to articulate the terminology to avoid misinterpretation of how the APN budget is allocated and spent.

**Action: Secretariat**

The nFP for New Zealand noted that the APN financial reporting has been improving but suggested that the Secretariat should be careful in using the correct terminologies when preparing the report. For example, the terminology "Secretariat Service" does not convey the APN Secretariat's actual involvement in activities related to science and policy. He further noted that the financial report needs to be self-contained (i.e., one document) so that Members do not need to refer to any another document. He also noted that the

funding allocation for general operational costs of the APN Secretariat has been increased from US\$53,500 last year to US\$80,000 in this year's proposed budget plan.

Following further explanation by the Secretariat Executive Manager, it was agreed that the Secretariat make every effort to keep general operational costs to a minimum. In so doing the Secretariat is to consider leased equipment and rationalise the volume of documents that the APN Secretariat distributes to its members and other institutions.

**Action: Secretariat**

The nFP for the U.S.A. asked the Secretariat to reflect in the financial report the in-kind contributions by each country in order to recognise the efforts of specific APN member countries in assisting the APN in conducting its activities.

**Action: Secretariat**

The Vice Chair suggested including a reference in the Chairperson's summary that the IGM recommend that the Secretariat seek ways to improve its dissemination of materials in the most effective and cost-efficient manner.

**Action: Secretariat**

With respect to the distribution of printed materials, the SPG Member for Bangladesh noted that printed materials are still relevant in the South Asia region. The Vice Chair responded by noting that the IGM recognises the importance of printed publications, but suggested the Secretariat maximise the use of technology whenever appropriate.

He ended by noting that an organization which is involved in global change research should make every effort to be as environmentally friendly as possible. This was agreed by the Members.

**Action: Secretariat**

The Vice Chair proposed that the 2009/10 budget be approved, taking the comments made by the Members into consideration for future budget presentations. This was agreed by the Members.

**Action: Secretariat**

## **25. Item 20: Resources Development**

The Secretariat Executive Manager highlighted the action points related to resources development as stated under the Institutional Agenda of the 2008/9 Operating Plan. He highlighted that a number of the action points had not yet been addressed. In particular, neither a Financial Working Plan (short-term action point) nor a Resources Development Plan (medium- to long-term action point) has been formulated. He noted the Secretariat's view that this is partly due to the limited human resources at the Secretariat. If the APN wishes to pursue an efficient strategy of resources development, more time and effort by the Secretariat, in consultation with the SC, solely dedicated to this issue is probably essential.

The nFP for the U.S.A. recognised the importance of developing additional resources and approaching new funding sources. He suggested that the Secretariat continue its efforts in formulating a brief Resources Development Plan based on the document presented and, in so doing, advised the Secretariat to work closely with the SC.

**Action: Secretariat and SC**

In closing the item, he urged the Secretariat to seek funds from private foundations. He cited that IAI has been successful in resourcing additional funding support in this area.

**Action: Secretariat and SC**

<b>Session Eight</b>
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**26. Item 21: CAPaBLE Projects for Funding**

The SPG Co-Chair and SPG Member for New Zealand, on behalf of the SPG and the CDC, reported that a total of US\$330,000 was available for CAPaBLE funding in 2009/10 for new and continued projects under the capacity building element of the CAPaBLE programme. In addition, US\$180,000 was available for new projects under Phase III of the comprehensive research element of the CAPaBLE programme. Recommendations for two (2) continuing multi-year projects were presented to the IGM for approval. Of the eighteen (18) new CAPaBLE proposals considered, ten (10) were recommended for funding. Of the Phase III Comprehensive Research proposals, two (2) out of the seven (7) proposals considered were recommended for funding.

The recommended allocation is outlined in the table below:

<b>(1) CAPaBLE: Capacity Building</b>	
2 continuing multi-year Capacity Building Projects (1 project does not have funding requirement)	<b>US\$ 37,500</b>
10 new projects	<b>US\$ 282,400</b>
Contingency Fund	<b>US\$ 10,100</b>
<b>(2) Phase III Comprehensive Research</b>	
2 new projects	<b>US\$ 120,000</b>
Unallocated funding	<b>US\$ 60,000</b>
<b>TOTAL</b>	<b>US\$ 510,000</b>

In the discussion that ensued, the following comments were noted:

The nFP for Pakistan, Ms. Neelofur Hafeez, noted her disappointment that one of the proposals submitted by Pakistan on GHG inventories had not been recommended for funding. The SPG Co-Chair and SPG Member for New Zealand noted that the spreadsheets provided do not contain the detailed comments from the reviewers. Offline discussions were suggested as potential way forward so that reconsiderations could be given to other submitted proposals.

The nFP for Bangladesh noted that capacity building is a serious issue in developing countries and there seem to be fewer activities in capacity building in the region.

The nFP for the U.S.A. noted that all of the proposals have received very thoughtful and thorough review and that the SPG has been acting very responsibly. He also pointed out that the importance of science-driven capacity building is reflected in the increased budget under the CAPaBLE programme. If some of the smaller countries need help in developing improved proposals, perhaps that is a matter for the APN Secretariat to give increasing priority in the coming year. This was agreed.

**Action: Secretariat**

The SPG Co-Chair and SPG Member for New Zealand clarified that, from the spreadsheets provided, although it may seem that a number of developed states (as project proponent) are receiving funds for capacity building, the activities are being undertaken in developing nations. He stressed that capacity building is for the benefit of young career persons in and from developing countries.

**The list of recommended continuing projects and new proposals for funding under the CAPaBLE programme was approved by acclamation (Attachment IX).**

**Action: Secretariat**

**27. Item 22: ARCP Projects for Funding**

The SPG Co-Chair and SPG Member for Sri Lanka, on behalf of the SPG, explained that the total budget available for new and continuing activities under the 2008 Annual Regional Call for Research Proposals (ARCP) process was US\$ 755,000.

Eight (8) multi-year projects were recommended for continuation in 2009/10 following highly satisfactory progress in their first year activities. However, it was recommended by the SPG that one multi-year project that had not progressed at all in the past year, be terminated.

The SPG Co-Chair and SPG Member for Sri Lanka highlighted that eighteen (18) proposals were considered for funding recommendation following the revised proposals process that was adopted by the 12<sup>th</sup> IGM in 2007, which included a pre-screening of summary proposals by the SPG SC, eleven (11) of which were recommended to the IGM for funding.

In his presentation, he also noted that, this year, the success rate was well above the 50% mark, which is expected to be highly encouraging to future proponents who submit proposals to the APN for funding.

The recommended allocation is outlined in the table below:

<b>ARCP Proposals and Continuing Multi-Year Projects</b>	
8 continuing multi-year projects	<b>US\$ 285,000</b>
11 new projects	<b>US\$ 465,670</b>
Contingency	<b>US\$ 4,330</b>
<b>TOTAL</b>	<b>US\$ 755,000</b>

In the discussion that ensued, the following comments were noted:

The nFP for Bangladesh asked whether Bangladesh could be considered in the proposed project on Carbon Offset Protocols. The Secretariat will facilitate a discussion in this regard.

The SPG Member for Japan commented that the APN needs more research diversity in the thematic areas of the APN. The nFP for the U.S.A. asked whether the SPG had considered in any detail the scientific themes last year or this year with a view to expanding them or focussing them more sharply in the future. The SPG Co-Chair and SPG Member for New Zealand commented that, indeed, the SPG annually reviews the scientific themes of the APN for relevancy as well as identifies any new or emerging themes. In fact, as highlighted in the meeting earlier, the themes from 2007 and 2008 were still considered relevant.

The SPG Member for Japan noted the limited focus of the proposals submitted to the APN this year and the fact that most of them are climate-related. He stressed the issue of how to broaden, in general, the thematic focus of proposals submitted to the APN for funding.

After the discussions on this item were closed, the IGM expressed its great appreciation and respect for the efforts of the SPG and commended the SPG Members for their contributions of time and effort to this very positive review process.

**The list of recommended continuing projects and new proposals for funding under the ARCP was approved by acclamation (Attachment X).**

**Action: Secretariat**



<b>Session Nine</b>
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**28. Session on the Confirmation of SC Membership**

Before moving to Item 23, the Chair opened the session and invited the nFP Alternate for ROK, Mr. Joon-ki Kim, to introduce the new SC Members. The nFP Alternate for ROK, on behalf of the nFP for ROK and the elected Chair of the SC, presented the new SC members. These are confirmed as follows:

For two-year term• **Elected members**

1. ROK: Mr. Jung-kyun NA
2. Mongolia: Mr. Bayarbat DASHZEVEG
3. Malaysia: Dr. Kok Seng YAP

Varied term for 1 or 2 years• **Ex-officio**

4. New Zealand: Dr. Andrew MATTHEWS (SPG Co-Chair for one-year term)
5. Indonesia: Dr. Erna ADININGSIH (SPG Co-Chair for two-year term)

For one-year term• **Co-opted members**

6. Sri Lanka: Mr. M.A.R.D. JAYATILAKE
7. Japan: Mr. Hiroshi ONO
8. U.S.A.: Mr. Louis BROWN
9. Prof. Roland FUCHS of the East-West Center and former START International Secretariat Director (for scientific and capacity building expertise)

**29. Item 23: Hosting of IGM/SPG Meetings**

The nFP Alternate for ROK confirmed ROK's willingness to host the 15<sup>th</sup> IGM/SPG Meeting. This was accepted by acclamation. Meantime, the nFP Alternate for ROK was thanked for his representation of ROK and, particularly, for the Government of ROK's cooperation to host the 15<sup>th</sup> IGM/SPG Meeting. Concerning the host country for the 16<sup>th</sup> IGM/SPG Meeting, Member countries were asked to consider this and contact the Secretariat should their respective countries be interested in hosting the 16<sup>th</sup> IGM/SPG.

**Action: nFPs and Secretariat**

The SPG Member for Malaysia and the nFP for New Zealand requested that a list of locations where all APN Meetings have been held, including SPG and SC Meetings, be included in the 14<sup>th</sup> IGM/SPG Meeting Proceedings. It was also suggested that an electronic version of the Proceedings that includes the PowerPoint presentations from the session "Informal Dialogue with the GC Community" would be placed on the APN website in due course.

The Secretariat Director noted that the suggestions will be taken into consideration when finalising the Proceedings.

**Action: Secretariat**

**30. Item 24: Chairperson's Summary**

A draft Chairperson's Summary was provided for discussion and approval. Each member country was asked to check the contents for clarity and to ensure that what had been written reflected the discussions.

While some revisions were noted, all SPG Members and nFPs, as well as observers, were invited to check the document and send editorial comments to the Secretariat by 14<sup>th</sup> April 2009. It was noted that a final summary would then be prepared in close consultation with the Chair and Vice Chair of the 14<sup>th</sup> IGM/SPG Meeting. The final summary will also include a list of action points (**Attachment XI**).

**31. Final Remarks and Closing of the Joint 14<sup>th</sup> IGM/SPG Meeting**

The Secretariat Director expressed his heartfelt thanks to the Members and observers for attending the 14<sup>th</sup> IGM/SPG Meeting in the beautiful City of Kuala Lumpur in Malaysia.

The Vice Chair underscored the IGM's greatest appreciation to the Malaysian Government for hosting the Meeting and to the local Organising Committee from the Malaysian Meteorological Department for their hard work to ensure the success of the Meeting.

The Chair thanked the nFPs, the SPG Members, and observers for their very thoughtful and positive contributions to the Meeting. He also highlighted his deepest appreciation for the funding support provided by the Sponsors of the APN.

The Chair and the Secretariat Director expressed, respectively, their thanks to the staff of the Secretariat for the support that they had provided throughout the Meeting.

**List of Participants**  
**14<sup>th</sup> Inter-Governmental Meeting (IGM)/**  
**Scientific Planning Group (SPG) Meeting**  
**18-20 March 2009, Kuala Lumpur, Malaysia**

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**Welcoming Remarks: Dr. Yap Kok Seng,  
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*Yang Berhormat* (means Honourable in Malay language) Tuan Haji Fadillah bin Haji Yusof, Deputy Minister of Science, Technology and Innovation Malaysia; Mr Tetsuro Fujitsuka, Director of APN Secretariat; distinguished delegates; ladies and gentlemen, *selamat datang* and a very good morning.

First, on behalf of all the delegates here today I would like to thank our Honourable Deputy Minister, Yang Berhormat Tuan Haji Fadillah bin Haji Yusof for taking time off from his very busy schedule to be with us here today to grace open this very important 14<sup>th</sup> Inter-Governmental Meeting (IGM)/Scientific Planning Group (SPG) Meeting of the APN.

Let me also take this opportunity to extend a very warm welcome to our new APN Director Mr Tetsuro Fujitsuka. Mr Fujitsuka, we look forward to working with you very closely over the next few years to further strengthen the excellent work done by APN in enhancing and promoting global change research in the Asia-Pacific region.

In our midst today, we also have some new members who are attending this meeting for the first time. I would like to welcome you to the APN family. Not forgetting is our partners from the various international global change programmes and various regional networks who are here with us today, a very warm welcome to you too, ladies and gentlemen.

In slightly over a decade, APN has established itself as the only inter-governmental network in the Asia-Pacific region that is very actively promoting global change research from a multi disciplinary perspective and at the same time fostering regional cooperation. Given the limited funds available to support the scientific activities of APN, the achievements over the years are truly remarkable. Credit must be given to the excellent APN Secretariat staff for their dedication and efficient management of the APN funds and projects. Members of the IGM and SPG who have contributed immensely to make APN to what it is today also deserve mention.

The quality of research proposals that APN receives annually under its annual call for proposals has seen a steady increase over time and I understand that the SPG is having a difficult task of rejecting proposals because all the proposals that we receive are of high standard and the number of proposals that can be funded are limited by the funds available. We hope that APN will be succeed in sourcing more funds from donor organisations and agencies so that more research and capacity building activities can be funded in the future. It is also heartening to note that developing country scientists are getting more directly involved in many of the APN-sponsored research activities and today if we have a larger pool of scientists who are committed and well-trained to undertake global change research, it is partly due to APN.

Last but not least I would like to take this opportunity to thank the APN Secretariat, especially Mr Yukihiro Imanari and my own staff who have been working hard to make this meeting a success.

To my friends from abroad, I wish all of you a pleasant stay and I hope you will extend your stay and get to see more of Kuala Lumpur City and other beautiful places in Malaysia.

Once again, I would like to express my thanks to our honourable Deputy Minister, Yang Berhormat Tuan Haji Fadillah bin Haji Yusof for being with us today.

Thank you.

**Opening Remarks: Mr. Tetsuro Fujitsuka,  
Director, APN Secretariat**

Good morning, ladies and gentlemen. My name is Tetsuro Fujitsuka, and I am the Director of the APN Secretariat.

Distinguished participants from member countries, international organisations, ladies and gentlemen. As the Director of the APN Secretariat, let me provide some welcome remarks on the occasion of the APN's 14<sup>th</sup> Inter-Governmental Meeting (IGM) and Scientific Planning Group (SPG) Meeting. First, I would like to express my special thanks to all the participants, who are attending this week's meetings far from their homeland.

Ladies and Gentlemen, now, as always in the past, we have many new friends here with us this morning; we have four new national Focal Points (nFPs) from Fiji, Japan, Lao P.D.R. and Pakistan; and five new SPG Members from Fiji, India, Lao P.D.R., Philippines, and Republic of Korea as well as several new officials working for the APN and colleagues representing global change scientific organisations as observers. I would like to welcome all of you to our network and to the APN family.

For those new to us, let me briefly explain what the APN is all about and what we are supposed to do here in Kuala Lumpur at the 14<sup>th</sup> IGM/SPG Meeting.

Responding to the proposal by the U.S.A. in 1990 to create regional networks for North-South scientific cooperation at the inter-governmental level for global environmental change research, the APN was established in 1996 for the Asia-Pacific region, which supports more than half of the world's population.

Since 1999, the APN Secretariat has been located in Kobe, and is hosted by Hyogo Prefectural Government. Now, we as a network, have 21 member countries. With the financial contributions from Japan, the U.S.A., Australia, New Zealand and the Republic of Korea, we have financially supported numerous scientific research and capacity building projects and activities over the past 13 years.

It is one of the striking and unique characteristics of the APN that both scientists and governmental officials work together for the enhancement of global change research. Scientists in the region cooperatively develop research projects under the APN's Annual Regional Call for Research Proposals (ARCP), and Comprehensive Research Projects (CRP) and Capacity Building projects under our capacity development programme, CAPaBLE.

Twenty-one (21) leading scientists, one from each member country and representing the SPG review project proposals and recommend which among those, for funding endorsement by the Inter-Governmental Meeting, which is the highest body of the APN. The IGM consists of nFPs or representatives of each member country. As the decision-making body of the APN, the IGM approves policies, budget, rules and procedures, as well as work plans of the APN, including the approval of proposals recommended by the SPG for funding.

Since 2004, we have been holding IGMs and SPG Meetings together with several parallel sessions to synergise these two important forces. This joint and annual IGM/SPG Meeting is really the best occasion to formulate plans of action to enhance global change research in the Asia-Pacific region.

In spite of the probable international attention to the Asia-Pacific region, we know research on global change is still far from sufficient in our region and that is exactly why we all gather together here today.

The year 2008/2009 that ends on March 31<sup>st</sup>, two weeks from now, was really a year when global change, most notably climate change, was listed at the top of the international policy agenda.

On behalf of Mr. Samuel Peñafiel, the Steering Committee Chair, who unfortunately could not attend this meeting, the Secretariat will report later this morning on how the APN has been effectively working in past year.

The meetings from today will determine research and capacity building projects that the APN will fund in the coming year, and by so-doing, are expected to bear yet more precious fruit in the future. Talking about the future of the APN is another important topic of this IGM/SPG Meeting. We will soon enter into the final year of the current five-year Second Strategic Phase of the APN covering the period from 2005 to 2010. We are now entering the implementation stage of the review of this second phase and the development of the Third Strategic Plan, which will be discussed on the second day of this 3-day meeting.

I look forward to your continued positive contributions and cooperation throughout the next three days and beyond, for further success in the year ahead. Also, I hope you can enjoy and learn about Kuala Lumpur, and the beautiful country of Malaysia during your stay here. Thank you very much.

**Message from Governor Toshizo Ido  
of Hyogo Prefecture, Japan**

I would like to offer my sincere congratulations for the grand opening of the 14<sup>th</sup> Inter-Governmental Meeting/Scientific Planning Group Meeting of the Asia-Pacific Network for Global Change Research, in Kuala Lumpur, Malaysia, with many participants from 21 member countries.

It has become a common concern across the world that environmental problems, including global warming, will have severe influence on our daily lives and business activities in the near future. It is utmost importance for us to gather our strength and wisdom worldwide to tackle these problems in order to pass rich nature on the future generations.

It is scientific intelligence which lays the foundation that will allow us to protect the environment. We were greatly encouraged by the concerted effort made by many governments and researchers based on the APN. I would like to take this opportunity to express my sincere appreciation for their hard work on the promotion of research.

I sincerely hope that this joint meeting will be successful and pave the way for further effective approaches towards worldwide environmental protection.

In closing please accept my best wishes for your good health and continued success.

**Opening Address: Hon. Tuan Haji Fadillah B. Haji Yusof,  
Deputy Minister, Ministry of Science, Technology  
and Innovation, Malaysia**

Dr. Kok Seng Yap, Director General, Malaysian Meteorological Department; Mr. Tetsuro Fujitsuka, Director of APN; Y. Bhg. Dato-Dato, Datin-Datin, today it gives me great pleasure to officiate the 14<sup>th</sup> APN's Inter-Governmental Meeting (IGM) and Scientific Planning Group (SPG) Meeting of which I understand is the first time Malaysia is hosting this joint meeting after a lapse of 13 years when Malaysia had the honour of hosting the first Scientific Planning Group Meeting in August 1996 also in this same city. For those of you who were present in that meeting more than a decade ago would have notice the dramatic transformation the city of Kuala Lumpur had undergone. On behalf of the government of Malaysia may I extend a very warm welcome to our distinguished friends from overseas, many of whom are visiting our country for the first time.

About 30 years ago, in 1979 the World Climate Research Program was established as a joint initiative of World Meteorological Organization (WMO), International Council of Scientific Unions (ICSU) and Intergovernmental Oceanographic Commission (IOC) to address issues specifically related to climate variability and predictability. Since then the issue has taken on a new dimension and is no longer limited to global warming and climate change but the causes, effects, impacts and the interaction between the various systems including the human intervention that together drive the global system or mother earth. It is thus only appropriate that the current environmental issues be viewed from a global change perspective, that takes into account the consequences of natural processes and human activities that affect the global environment directly and cumulatively.

I am delighted to know that the Asia-Pacific Network for Global Change Research (APN) is an inter-governmental body established to further the understanding of the problems and mechanisms involved in global change so as to reduce the scientific uncertainties associated to global environmental and related social changes in the Asia-Pacific region. It is important and necessary that the scientific knowledge and understanding regarding the interaction between global change and human activities be further enhanced and elucidated so that scientist will be in a better position to provide advice and make appropriate recommendations to avert or minimise the impact of global change.

The Asia Pacific region presents a unique position in the diverse and complex natural environment of the globe. The impact of the Asian monsoon system and the EL Niño-Southern Oscillation (ENSO) phenomenon on the regional climate and the ecosystems in the Asia-Pacific region is well known apart from the dire economic consequences that results from the failure of monsoons.

The Asia-Pacific region has also more than half the world's population and is experiencing phenomenal economic growth as well. As we entered the 21<sup>st</sup> century, many of the nations in this region are striving towards achieving developed status through industrialisation. It then becomes even more urgent that policy decisions and planning be based on sound scientific knowledge so as to avert any environmental deterioration or loss of biodiversity at the expense of industrialisation and economic growth.

I am made to understand that the APN over the last 13 years had funded numerous research projects, capacity building activities, open science conferences and various forms of collaboration with regional and international organisations pursuing the same interest in global change research. What is really heartening to note is that the research projects are initiated by the countries themselves in the region in a collaborative manner that is of relevance to them and most often with assistance from their counterparts from the more developed countries. I have being informed that the APN-sponsored activities covers the entire spectrum of global change from sea to space, with cross-cutting themes and an emphasis on human dimension issues included so that any research activities will

have science-policy linkages that will help decision makers in making the right decision.

The Malaysian government on its part has adopted an integrated approach to address the various global change issues which are cross-sectoral by forming various national committees with specific terms of reference to coordinate and implement activities related to global environmental change. Among the committees that are being coordinated by the various Ministries are; National Committee on Bio-diversity, National Committee on Climate Change, Ministerial Level Committee to coordinate and implement activities under AGENDA 21. Malaysia also recently came out with its guidelines on the national environmental policy.

Since the task of undertaking global change research is enormous in its scope and range, therefore a multi-disciplinary effort at international level becomes indispensable. Global change research requires coordinated action at the global, regional and national level. Scientific initiatives like those of APN on global change research carried out at the regional level whose contribution would be subsequently integrated at the global level. For individual countries in the region, it would be important to support such regional initiatives particularly through the implementation of research programs at national level that could enhance the understanding of the regional perspective of global science.

I am very pleased to note that the APN will be a network of networks providing a link between the various national and regional research centres to further enhance and synergise the already excellent activities that are in place. I am also encouraged to note that the APN would be collaborating closely with its counterpart network, the Inter-American Institute for Global Change Research (IAI) and other international global change research organisations like World Climate Research Programme (WCRP), International Geosphere-Biosphere Programme (IGBP), International Human Dimensions Programme on Global Environmental Change (IHDP), DIVERSITAS (an international programme of biodiversity science, SysTem for Analysis Research and Training (START) and ICSU. Such cooperation between the regional networks is not only important but necessary as many of the consequences of global environmental changes cut across the entire face of the earth.

I hope this scientific meeting will steer us to greater cooperation and commitment towards the understanding and tackling of global environmental issues for the benefit of all mankind.

Finally, I would like to take this opportunity to thank the Japanese Government and the APN Secretariat for their strong support and leadership thus far in making this regional network a reality.

I would like to express my thanks to all the distinguished participants present here who are experts in their various fields of global change research for their contribution and I wish you every success in your deliberations over the next three days.

On this note, ladies and gentlemen, I have great pleasure in declaring this meeting officially opened.

## Sub-Regional Cooperation Reports/Conclusion

### OCEANIA AND PACIFIC

- **Not formally organizing a sub-regional committee.**
- Prepare a directory of national agencies involved in climate change research and policy from the respective member countries.
- Prepare a directory of scientific experts in member countries and their areas of expertise related to global change research.
- Prepare a list of websites from respective member countries that address global change issues.
- Establish an electronic bulletin board for communications, hosted by USDA-CSREES.
- Explore educational opportunities for undergraduate and graduate students to obtain foundation degrees for professional development in climate change careers.
- Explore sources for regional experts to access current information, including teaching material, on best management practices and strategies for global change issues.
- Explore scientist exchange and training programs for regional scientists, e.g. East-West Center, Hawaii and University of South Pacific.
- Explore promotion of APN activities and collaborations with academic institutions and other Pacific Island intergovernmental bodies, such as the Pacific Regional Environmental Programme (SPREP) and the Pacific Islands Applied Geosciences Commission (SOPAC).

### SOUTH ASIA (SA) SUB-REGIONAL COMMITTEE

- South Asia reiterated the recommendation of last year Meeting that APN facilitate holding of a meeting of its nFPs and SPGs from South Asia to prepare and prioritize list of main issues of global change in the region requiring for the research.
- Besides country representatives, experts from START and ICSU may also be invited to the meeting. This list may be used as a guideline to develop regional projects proposals possibly with participation of scientists from the developing countries for submission to the APN and other funding agencies.

### SOUTHEAST ASIA (SEA) SUB-REGIONAL COMMITTEE

#### Participants

- Cambodia (nFP and SPG Member)
- Lao PDR (nFP and SPG Member)
- Indonesia (nFP)
- Malaysia (nFP and SPG Member)
- Philippines (SPG Member)
- Thailand (nFP and SPG Member)
- SARCS

#### Election of Chairperson

- Thailand is elected as the Chairperson of the SEA-SRCom

#### Conclusion

- Thailand has been elected as Chairperson of SEA-SRCom during 2009-2011 (starting from August 2009 to July 2011)
- The 2<sup>nd</sup> SEA-SRCom Meeting will be held in August or September 2009 (prior to the SC Meeting)
- APN will provide financial support for the meeting

Proposed Agenda

- Finalize TOR of SEA SRCCom and general guidance for the APN SRC
- Common interest
  - Synthesis of APN funded researches from phase II
  - Simplify the previous scientific research outputs into executive summary for policy makers (APN)
  - Policy research (impact on health, water resource and agriculture)
  - Contribution of member countries to APN

Example of Partnership

- Thailand inform the meeting on “Thai-German Cooperation on Climate Policy” and discussion among the SRC members.
- By providing long-term consultant on climate policy (adaptation, mitigation, R&D, capacity building, public awareness and international cooperation)
- Co-funding for implementation on CC activities

**TEMPERATE EAST ASIA (TEA) SUB-REGIONAL COMMITTEE****1. Do we need to establish sub-regional committee in TEA?**

General feeling of the group is that, though the sub-regional collaboration is important, member countries are not ready to establish the TEA Sub-Regional Committee.

The reasons are:

- a. The goal and function of the Sub-Regional Committee for TEA are not clear.
- b. As there are already many projects, programs and networks for global change research in the region, the role of APN Sub-Regional Committee in TEA should be clearly identified. It is more relevant to establish a common platform to exchange information on the ongoing projects and scientific meetings.
- c. It is costly and time-consuming to introduce a complex structure in the APN management.

**2. What kind of sub-regional collaboration do we need in TEA?**

We should identify the common issues in the region. The possible issues are:

- a. information exchange and discussion within the APN groups,
- b. information exchange with other international projects, programs and networks,
- c. more impact and vulnerability studies in TEA as well as the whole Asian region, to contribute to the IPCC AR5 WG2 report,
- d. water resource, land degradation and desertification particularly in the Central Asia'
- e. as there is no APN member country in the Central Asia, possibility of joint proposals and enhanced collaboration should be discussed in APN,
- f. young scientists training is needed in TEA.

After the experience of collaboration for such themes, the TEA Sub-regional Committee may be a subject for more realistic discussion.



## APN's Communications Strategy

This draft Communications Strategy has been devised to facilitate continuity and to advance APN efforts in:

- Demonstrating its work within and outside the region;
- Effectively communicating the outcomes of the projects it supports;
- Strategically disseminating the results and outputs of its activities to the global change (gc) community, including scientists, decision-makers and the public through various platforms
- Enhancing communications among the APN organs and with the wider global change community

### **STRATEGY 1: Continue to produce and improve the communication tools**

#### Publications

Continue to produce (in-house) and improve the appearance and quality (in terms of conciseness and clarity) of the following publications to make them more interesting and effective in providing information to the broader scientific community, policy-makers and the public.

- Proceedings of meetings, symposia, workshop
- Brochure that provides general introduction about APN
- Flyer that highlights major activities undertaken by the APN in the previous year and summarises the current projects being supported
- Project bulletin
- Annual report
- Quarterly newsletters
- Posters
- CD-ROMs containing APN publications and project reports

#### Website

Revamp the APN website to attract more visitors who access information on global change and thus further promote APN and its activities in the public domain. Changes may include but not be limited to: enhanced navigation structure, extensive linkages to other appropriate organisations, continuously updated content that clearly and accurately reflects APN's structure, activities under the ARCP and CAPaBLE Programme, and a number of searchable databases for contacts, meetings and publications, etc.

### **STRATEGY 2: Develop new communication tools**

- Press release – actively consider press releases to the media; issue joint press releases from the Secretariat and the country where an APN-related activity is taking place and ensure that the national Focal Points are well-informed
- Policy briefs – start from the submitted country reports by the member countries
- Synthesis reports or book from the synthesis activities

### **STRATEGY 3: Organising outreach activities**

Continue to organise outreach activities and disseminate APN materials to further promote the network in the region and to encourage involvement of more stakeholders in APN activities.

### **STRATEGY 4: Establish/strengthen partnerships**

- Maintain close liaison and strengthen the relations with the global change programmes and key organisations to explore better ways of collaboration in achieving shared goals
- Be more open and pro-active in establishing new ties/collaboration with other organisations in the region involved in global change research, capacity building/enhancement and policy development
- Explore mechanisms of engaging other countries (institutions) outside the region for mutually beneficial endeavours

**STRATEGY 5: Raise APN visibility**

- Expand more substantive APN activity to and supportive of policy-making, such as policy fora and symposia to contribute in raising APN profile in the region
- Use all opportunities to mention the APN at high-level ministerial meetings attended by national Focal Points
- Fully utilise other available infrastructure (such as the IGES facility) in promoting APN and disseminating information

**STRATEGY 6: Empower APN members**

The use of an appropriate communication platform is important in engaging the APN members to be more actively involved in APN activities.

- Create a web-based information tool where Members can have free access (or password-protected) to all the APN materials that they need.
- Add a portal on the APN website that will serve as a forum where Members can exchange information and ideas. This portal could be later expanded and opened to the public.
- Provide/supply the APN Members with useful materials for information and dissemination to their own networks.
- Convene a meeting (or include as a separate session/item of the IGM) devoted solely on empowering the Members and assessing how they progress on being more involved in APN activities and defining specific actions they have done as an APN Member. This strategy requires strengthening of the membership and full support/commitment from the Members should be realised beforehand.
- Be more proactive and diligent in reminding the Project Leaders to report the progress and outcomes of their activities to the nFPs and SPG Members in their countries/sub-regions.

## APN's 2009/2010 Operating Plan

### **Introduction**

It is highlighted in the Second Strategic Plan that the Secretariat and the Steering Committee will prepare an annual operating plan for approval by the IGM.

At the end of each year, the Steering Committee will evaluate APN's achievements related to the annual operating plan.

Based on the draft prepared by the Secretariat with the advise of Subramanian Moten, SPG Member for Malaysia, the 3<sup>rd</sup> SC (March 2006, Bangkok) developed the APN's Second Strategic Phase 2005-2010 Operating Plan. The 11<sup>th</sup> IGM endorsed it.

In the year 2006/2007, the Operating Plan was in effect equivalent to an annual Operating Plan for the year. At the end of 2008/2009, like in the previous year, the Secretariat and the SC reviewed APN's achievements related to the Operating Plan based on the annual report of activities and the Secretariat's review note on the implementation of the Operating Plan together with the audited financial report, and prepared the Operating Plan for 2009/2010 with two timescales:

- Short-term (April 2009 to March 2010) and
- Medium- and long-term (April 2009 to March 2010 and beyond into 3<sup>rd</sup> Strategic Phase).

### **SCIENCE AGENDA**

#### **Short-term (Year 2009/2010)**

- Establish, revise, update scientific priorities annually, based on input from nFP, SPG members and others.
- Launch two calls for proposals simultaneously for ARCP and CAPaBLE and encourage submission of proposals.
- Identify global change events – meetings, conferences, etc, appropriate to the APN. Create a calendar of events and plan attendance and/or discuss opportunities to co-organise, co-host.
- Consider co-organising a joint side event at SBSTA30 with the GC community.
- Participate in the SBSTA30 informal dialogue with the GC community.
- Participate in the UNCSD17 to showcase the results of CAPaBLE Phase One evaluation and conduct a training session.
- Produce a synthesis of CAPaBLE phase 1 activities showcasing successes (base the synthesis on the Phase 1 brochure).
- Produce an Annual Science Bulletin for all ongoing projects under the ARCP and CAPaBLE processes.
- Produce an Annual Report in the 2<sup>nd</sup> to 3<sup>rd</sup> quarter of the fiscal year – detail projects that were completed during each particular year and cite any publications, regardless of whether WIP (Work In Progress), in press, or already published.
- Follow-up on completed projects from the first strategic phase (1999-2004) and identify peer-reviewed publications.
- Continue to be pro-active in devising science (and policy) calendars of events.

- Capacity Development Committee (CDC) addresses the CAPaBLE strategies outlined in the Second Strategic Plan and devises an appropriate plan.
- Implement Phase III of the CAPaBLE programme following endorsement of new CRPs at the 14<sup>th</sup> IGM.
- Implement a new focus of activities on Scientific Capacity Building for Climate Impact and Vulnerability Assessments.
- Implement a 2-year Climate synthesis of APN-funded.
- Conduct the scientific evaluation of the Second Strategic Phase then hold a scientific evaluation meeting (Augmented Steering Committee Meeting) back-to-back with the 13<sup>th</sup> SC meeting to conclude the evaluation of funded projects and to discuss and plan phase 3 issues and the formulation of the 3<sup>rd</sup> Strategic Plan. Devise science and policy section for the draft Strategic Plan for Phase 3.
- Encourage APN-supported projects to produce publications that will feed into governmental policy-processes such as the IPCC 5<sup>th</sup> AR, Panels of the Montreal Protocol, Millennium Ecosystem Assessment, and International Panel on the Sustainable Use of Natural Resources.

#### **Medium and Long-term (Year 2009/10 and beyond)**

- Continue to encourage APN-supported projects to produce publications that will feed into governmental policy-processes such as the IPCC 5<sup>th</sup> AR, Panels of the Montreal Protocol, Millennium Ecosystem Assessment, and International Panel on the Sustainable Use of Natural Resources.
- Consider options for co-organising an event with IAI and/or other GC partners.
- Plan (see short-term for climate synthesis) and conduct one or more syntheses of APN activities on a topic (or topics) that are identified.
- Publish a synthesis of APN activities from identified topic(s).
- Endorse a new strategic plan for 3<sup>rd</sup> Strategic Phase.

#### **POLICY AGENDA**

##### **Short-term (Year 2009/2010)**

- Identify Calendar of Policy Events appropriate to the APN and plan attendance, as needed (annually).
- Strongly encourage project leaders to publish science or policy briefs.
- Strongly encourage project leaders and collaborators to communicate more with their national Focal Points. Continue to follow up on this issue throughout the year.
- Publish a flyer (one to two pages) of APN major activities/achievements in 2008/2009.
- Continue to encourage APN members to translate and publish the briefing produced by the Secretariat in the vernacular language.
- Expand on science-policy question of interactions and strengthen policy-relevance of APN activities. Engage members by discussing the issue by email, personal visits to nFPs and at the 15<sup>th</sup> IGM and beyond.

- Make personal contact/visits to national Focal Points/SPG members.
- Continue to look at the ARCP process and the CAPaBLE process and determine, "Are we asking the right questions? How is your project effective? How will it feed into policy processes? What concrete initiatives do you have in place for policy-relevance?" Review these with the SPG. Ask project proponents to elaborate these points in their proposals.
- Continue to raise the issue of science-policy interactions. Ask national Focal Points and Scientific Planning Group members to provide examples of successful science-policy interactions in their countries? For example at meetings, etc. Collate information for discussion at 14<sup>th</sup> IGM and onward.
- Continue to identify regional and international governmental processes other than IPCC and UNFCCC processes where scientific results of APN projects can be considered and/or presented. In the call for proposals, etc. encourage contribution to these processes.
- Continue to participate in international/regional conferences to highlight APN's scientific activities to promote science/policy interactions and to promote APN. The UNFCCC SBSTA30 and COP15 may be a good occasion.
- Perform an evaluation of Phase 2.
- Develop a draft Strategic plan for Phase 3.

#### **Medium and Long-term (Year 2009/2010 and beyond)**

- Further investigate the possibility of encouraging (by funding and/or supporting) seminars (local, national initially) where GC scientific results are presented to government officials.
- Be more proactive in highlighting publications from APN-funded projects that might feed into regional and international governmental processes such as the IPCC (AR5) and UNFCCC processes, and others processes identified.
- Identify calendar of policy-related activities and events.
- Endorse a new strategic plan for 3rd Strategic Phase.

#### **INSTITUTIONAL AGENDA**

##### **Short-term (Year 2009/2010)**

- Continue to pursue new country membership of interested countries.
- Implement the APN Communications Strategy.
- Initiate discussion on collaborating/association with countries outside the APN region.
- Perform an evaluation of phase 2.
- Continue to address process for active member-country participation in hosting APN meetings.
- Identify and communicate to IGM and SPG members' information on global change events relevant to the APN by compiling information received from international programmes and other sources.

- Identify, up to 4 years in advance, main meetings being scheduled by the international GC programmes such as the global change programmes, WCRP, IGBP, ESSP, IHDP, DIVERSITAS. Identify an exhaustive list and a calendar of activities (for at least 2 years in advance).
- Consider inviting scientific experts to the APN meetings on issues expected to be emphasised at their meetings.
- Have APN-initiated and APN-funded projects proactively seek collaboration with institutes and organisations that provide co-sponsorship and in-kind contributions.
- Continue to seek active involvement of host institutions in order to provide greater sustainability of projects.
- Address membership inactivity.
- Continue to work with those presently funding APN Programmes and activities to assure long-term stability of such funding.
- Based on the review of discussions held in the past, formulate financial working plan with concrete and targeted action points (divided in two separate groups, one with actions to raise additional funds, and a second one with actions to reduce expenses).
- Report in-kind contributions (in figures) in the financial reporting at IGM/SPG.
- Continue to encourage members from developing countries to consider sharing costs of travelling to IGM.
- Encourage sub-regional liaison trials in the Southeast and South Asian sub-regions.
- Perform an evaluation of Phase 2.
- Develop a draft Strategic plan for Phase 3.
- Formulate a Resources Development Plan according to the advice of the 14<sup>th</sup> IGM/SPG Meeting.

**Medium and Long-term (Year 2009/2010 and beyond)**

- Address the legal status of APN.
- Consider the possibility of looking to member countries to invest in the APN, with in-kind or financial contributions.
- Continue to mobilise funds for scientific and CB activities from sources within and outside of the APN region.
- Co-organise activities with other agencies, for the purpose of cost efficiency.
- Endorse a new strategic plan for 3rd Strategic Phase.

## 2009/2010 CAPaBLE Projects

Original Project/ Proposal Reference Number	New Project Reference Number	Project Title	Project Leader	Email Address	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	2009/10 Funding Awarded (US\$)
<b>CAPACITY BUILDING PROJECTS</b>									
BA2008-05NMY-Ailikun	<b>CBA2009-01CMY-Ailikun</b>	The Capacity Building for Drought Monitoring and Studying in Monsoon Asia Under the Framework of Asian Water Cycle Initiative (AWCI)	Dr. Ailikun, Chinese Academy of Science, CHINA	<a href="mailto:aili@mairs-essp.org">aili@mairs-essp.org</a>	Use of Resources and Pathways for Sustainable Development	Capacity building for drought monitoring in various Asian countries and development of early warning system of drought hazard in related countries	Japan, China, Mongolia, Thailand, Viet Nam, Pakistan, Philippines, Nepal	2 years	37,500
CBA2008-12NMY-Ishida	<b>CBA2009-02CMY-Ishida</b>	The Global Earth Observation System of Systems Asian Water Cycle Initiative Observation Convergence and Data Integration (GEOSS/AWCI/OCDI)	Mr. Chu Ishida, Japan Aerospace Exploration Agency (JAXA), JAPAN	<a href="mailto:ishida.chu@jaxa.jp">ishida.chu@jaxa.jp</a>	Crosscutting-Issues and Science-Policy Linkages; Use of Resources and Pathways for Sustainable Development	Data handling, exchange policies and an overall climate (water and energy cycle) data management strategy that will meet the goals of the Global Earth Observation System of Systems (GEOSS) within the context of GEOSS Work Plan	Bangladesh, Cambodia, China, India, Indonesia, Japan, Korea, Lao PDR, Mongolia, Nepal, Pakistan, Philippines, Sri Lanka, Thailand, Viet Nam	2 years	N/A
2008CB-FP02-Bishry	<b>CBA2009-03NSY-Bishry</b>	Project Scoping and Training Workshop for REDD in Indonesia, Cambodia, and Lao PDR	Dr. Rony Bishry, BPPT - The Agency for the Assessment and Application of Technology, INDONESIA	<a href="mailto:rbishry2000@yahoo.com">rbishry2000@yahoo.com</a>	Climate; Ecosystems, Biodiversity and Land Use; Use of Resources and Pathways for Sustainable Development	Training and capacity-building in understanding REDD and methodologies for implementing REDD activities and initial identification of potential REDD activities in each of the three countries.	Indonesia, Cambodia, Lao PDR	1 year	24,400

Original Project/ Proposal Reference Number	New Project Reference Number	Project Title	Project Leader	Email Address	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	2009/10 Funding Awarded (US\$)
2008CB-FP03-Visarto	<b>CBA2009-04NSY-Visarto</b>	Workshop on Climate and Agricultural Risk Management, Phnom Penh, 2009	Dr. Preap Visarto, Department Agricultural Directorate, Ministry of Agriculture Forestry and Fisheries (MAFF), CAMBODIA	<a href="mailto:visarto09@yahoo.com">visarto09@yahoo.com</a>	Climate; Use of Resources and Pathways for Sustainable Development	Follow-up on the project " Climate and Crop Disease Risk Management: An International Initiative in the Asia-Pacific Region" to continue the association of the research team and expanding the network more widely into SEA, thus, allowing effective research	Cambodia, Australia, Thailand, Viet Nam, India, Bangladesh, USA, Philippines	1 year	30,000
2008CB-FP04-Salinger	<b>CBA2009-05NSY-Salinger</b>	International Workshop on the Content, Communication and Use of Weather and Climate Products and Services for Sustainable Agriculture	Dr. Michael James Salinger, University of Auckland, NEW ZEALAND	<a href="mailto:j.salinger@auckland.ac.nz">j.salinger@auckland.ac.nz</a>	Climate; Use of Resources and Pathways for Sustainable Development; Crosscutting Issues and Science-Policy Linkages	The workshop aims to provide scientists from emerging and developing countries to interact with experts from different regions and build their capacity in the area of strategies for more targeted weather and climate information and forecasting for increased preparedness to sustainable agricultural development, especially in the Asia-Pacific region.	New Zealand, Australia, Bangladesh, Cook Islands, China, Fiji, Indonesia, Kiribati, Malaysia, Samoa, Philippines, Russian Federation, USA, Vanuatu, Viet Nam	1 year	25,000



Original Project/ Proposal Reference Number	New Project Reference Number	Project Title	Project Leader	Email Address	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	2009/10 Funding Awarded (US\$)
2008CB-FP05-Trieu/Huy	<b>CBA2009-06NSY-Trieu/Huy</b>	Capacity Building for Mainstreaming Climate Change Issues into Socio-Economic Development Planning in Viet Nam	Dr. Vu Van Trieu and Dr. Luong Quang Huy, IUCN Viet Nam Country Office, VIET NAM	<a href="mailto:vuvantrieu@iucn.org.vn">vuvantrieu@iucn.org.vn</a> <a href="mailto:huy@iucn.org.vn">huy@iucn.org.vn</a>	Climate; Crosscutting Issues and Science-Policy Linkages	Raising awareness and building capacity to mainstream climate change issues into socio-economic development plans for policy makers through a series of workshops in the North, Central and South of Vietnam.	Viet Nam	1.5 years	30,000
2008CB-FP08-Larigauderie	<b>CBA2009-07NSY-Larigauderie</b>	Second DIVERSITAS Open Science Conference: "Biodiversity and Society: Understanding Connections, Adapting to Change": Ensuring a Strong Scientific Contribution from the Asia-Pacific Region	Dr. Anne Larigauderie, DIVERSITAS	<a href="mailto:anne@diversitas-international.org">anne@diversitas-international.org</a>	Ecosystems, Biodiversity and Land Use; Changes in Atmospheric, Terrestrial and Marine Domains; Use of Resources and Pathways for Sustainable Development	Participation of scientists from Asia Pacific region to attend the Second DIVERSITAS Open Science Conference entitled: "Biodiversity and society: understanding connections, adapting to change" (DIVERSITAS OSC2), which will take place in Cape Town, S-Africa	Philippines, Japan, Indonesia, other Asia-Pacific countries	1.5 years	15,000
2008CB-FP09-Almoite	<b>CBA2009-08NSY-Almoite</b>	Scaling-Up Agroforestry Promotion Towards Mitigating Climate Change in Southeast Asia	Dr. Orlando P. Almoite, Philippine Agroforestry Education and Research Network, University of the Philippines Los Baños, PHILIPPINES	<a href="mailto:opalmoite@yahoo.com">opalmoite@yahoo.com</a> <a href="mailto:dmmmsu_lawm@yahoo.com">dmmmsu_lawm@yahoo.com</a> <a href="mailto:ldgavina@yahoo.com">ldgavina@yahoo.com</a>	Climate; Crosscutting Issues and Science-Policy Linkages	Capacity building, exchange/sharing of knowledge and technical expertise, and public awareness programs about the potentials of Agroforestry in mitigating climate change in Southeast Asia.	Philippines, Thailand, Indonesia, Viet Nam, Lao PDR	1 year	35,000

Original Project/ Proposal Reference Number	New Project Reference Number	Project Title	Project Leader	Email Address	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	2009/10 Funding Awarded (US\$)
2008CB-FP17-Walland	<b>CBA2009-09NSY-Walland</b>	Pacific Islands Climate Outlook Forum (PICOF): A Network Approach for Regional Climate Change Assessments	Dr. David Walland, Bureau of Meteorology, AUSTRALIA	<a href="mailto:d.walland@bom.gov.au">d.walland@bom.gov.au</a>	Climate; Crosscutting Issues and Policy Linkages	Development of a regional network approach to assess the relevant aspects of regional climate change, including observed changes and impacts, downscaling of climate change scenarios and the potential impacts of the projected climate change and facilitation	Australia, New Zealand, USA, Fiji Islands, other island states in the South Pacific	1 year	25,000
2008CB-FP19-Li	<b>CBA2009-10NSY-Li</b>	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	Dr. Guoqing Li, Centre for Earth Observation and Digital Earth, Chinese CHINA	<a href="mailto:gqli@ceode.ac.cn">gqli@ceode.ac.cn</a>	Climate; Crosscutting Issues and Science-Policy Linkages	The target of this proposed project is to bring the experience and knowledge from CEOS/WGISS to the GCR scientists in the APN region, to discuss how to access and use the next generation EO information technology, and to find appropriate approaches to development	China, Japan, Mongolia, Russian Federation, Republic of Korea, Thailand, USA	1 year	38,000

Original Project/ Proposal Reference Number	New Project Reference Number	Project Title	Project Leader	Email Address	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	2009/10 Funding Awarded (US\$)
2008CB-FP11-Sang-arun	<b>CBA2009-11NMY-Sang-arun</b>	Promoting Sustainable Use of Waste Biomass in Cambodia, Lao People's Democratic Republic and Thailand: Combining Food Security, Bio-energy and Climate Protection Benefits	Dr. Janya Sang-arun, Institute for Global Environmental I, JAPAN	<a href="mailto:sang-arun@iges.or.jp">sang-arun@iges.or.jp</a>	Climate; Use of Resources and Pathways for Sustainable Development; Crosscutting Issues and Science-Policy Linkages	A research to identify the suitability of organic waste management options in terms of technical and economic conditions and their benefits for climate change mitigation, livelihoods and self-reliance in Lao PDR, Cambodia, and Thailand	Japan, Cambodia, Lao PDR, Thailand	2 years	30,000
2008CB-FP12-Togtohyn	<b>CBA2009-12NMY-Togtohyn</b>	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)	Dr. Chuluun Togtohyn, Institute for Dryland Sustainability (IDS), National University of Mongolia, MONGOLIA	<a href="mailto:chuluun@nrel.colostate.edu">chuluun@nrel.colostate.edu</a>	Climate; Ecosystems, Biodiversity and Land Use	Improving the adaptive capacity to climate and land use changes of people living in the Southern Khangai Mountains, Mongolia and making the Dryland Development Paradigm (DDP) based policy recommendation.	Mongolia	2 years	30,000
<b>COMPREHENSIVE RESEARCH PROJECTS</b>									
2008CRP-FP03-Weber	<b>CRP2009-01NMY-Weber</b>	Vulnerability Mapping as Policy Tool in Developing Countries	Dr. Eberhard Weber, The University of the South Pacific, FIJI	<a href="mailto:weber_e@usp.ac.fj">weber_e@usp.ac.fj</a>	vulnerability, people and places	Investigates vulnerability of people related to Climate Change through vulnerability mapping. It focuses on people's vulnerabilities, the ways they sustain their livelihoods and how they cope with / adapt to adverse events.	Fiji, India, Thailand	3 years	50,000

Original Project/ Proposal Reference Number	New Project Reference Number	Project Title	Project Leader	Email Address	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	2009/10 Funding Awarded (US\$)
2008CRP- FP04-Pereira	<b>CRP2009- O2NMY- Pereira</b>	Strengthening Capacity for Policy Research on Mainstreaming Adaptation to Climate Change in Agriculture and Water Sectors	Dr. Joy Jacqueline Pereira, Institute for Environment and Development (LESTARI), Universiti Kebangsaan Malaysia (UKM), MALAYSIA	<a href="mailto:joy@ukm.my">joy@ukm.my</a>	climate change, adaptation, agriculture and water resources	Strengthening the research capacity on mainstreaming climate change adaptation concerns into agricultural and water policies and creating a consortium for adaptation policy research in Asia (ARNAP: Adaptation Research and Policy Network for Asia and the Pacific).	Malaysia, Viet Nam, India, Japan	3 years	70,000
<b>CBA</b>							<b>Total Funding Awarded</b>	<b>319,900</b>	
<b>CRP</b>							<b>Total Funding Awarded</b>	<b>120,000</b>	

## 2009/2010 ARCP Projects

Original Project/ Proposal Reference Number	New Project Reference Number	Project Title	Project Leader	Email Address	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	2009/10 Funding Awarded (US\$)
ARCP2008- 13NMY- Fukami	<b>ARCP2009- 01CMY- Fukami</b>	Flood Risk Management Demonstration Project (phase 1) Under the Asian Water Cycle Initiative for the Global Earth Observation System of Systems (FRM/AWCI/GE OSS)	Mr. Kazuhiko Fukami, Leader of Hydrologic Engineering Research Team, ICHARM, Public Works Research Institute (PWRI), JAPAN	<a href="mailto:k-fukami@pwri.go.jp">k-fukami@pwri.go.jp</a>	Crosscutting-Issues and Science-Policy Linkages	Provide methodologies, tools and basic data sets to derive such required information to assess flood risks and evaluate mitigation options, at the same time provide data and tools for scientists and practitioners to make best possible forecasts for operational flood management through data integration and downscaling.	Australia, India, Indonesia, Japan, Pakistan, Philippines, Sri Lanka, Viet Nam	2 years	42,000
ARCP2008- 14NMY- Okladnikov	<b>ARCP2009- 02CMY- Okladnikov</b>	Human Impact on Land-cover Changes in the Heart of Asia	Dr. Igor Okladnikov, Siberian Center for Environmental Research and Training/ Institute for Monitoring of Climatic and Ecological Systems ,RUSSIAN FEDERATION	<a href="mailto:oig@scert.ru">oig@scert.ru</a> , <a href="mailto:oig@ngs.ru">oig@ngs.ru</a>	Climate; Changes in Atmospheric, Terrestrial and Marine Domains; Crosscutting-Issues and Science-Policy Linkages	Understanding human impact on land-cover and capacity to monitor change to address Global Change and ensure sustainable development.	Russian Federation, USA, Mongolia	2 years	18,000

Original Project/ Proposal Reference Number	New Project Reference Number	Project Title	Project Leader	Email Address	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	2009/10 Funding Awarded (US\$)
ARCP2008- 15NMY- Nikitina	<b>ARCP2009- 03CMY- Nikitina</b>	Reducing Water Insecurity through Stakeholder Participation in River Basin Management in the Asia-Pacific	Dr. Elena Nikitina, Director, EcoPolicy Research and Consulting, Moscow, RUSSIAN FEDERATION	<a href="mailto:elenanikitina@bk.ru">elenanikitina@ bk.ru</a>	Climate; Ecosystems, Biodiversity and Land Use; Use of Resources and Pathways for Sustainable Development; Crosscutting Issues and Policy Linkages	Combination of human response options (scientific, engineering, institutional, financial, social, economic) and partnerships (domestic and transboundary), as a powerful tool in good water governance and a precondition for effective policy process towards sustainable development.	Australia, China, Russian Federation, Thailand, Viet Nam	2 years	40,000
ARCP2008- 16NMY- Shrestha	<b>ARCP2009- 04CMY- Shrestha</b>	Impacts of Global Change on the Dynamics of Snow, Glaciers and Runoff over the Himalayan Mountains and Their Consequences for Highland and Downstream Regions	Dr. Kedar Lal Shrestha, Institute for Development and Innovation, NEPAL	<a href="mailto:klshrestha@wlink.com.np">klshrestha@wli nk.com.np</a>	Climate; Use of Resources and Pathways for Sustainable Development; Crosscutting- Issues and Science-Policy Linkages	Assessment of the impacts of climate change on dynamics of snow, glaciers and runoff over the Himalayan mountains and their consequences for people's livelihood as well as the economy and societies in the upland and downstream regions of the Himalayan river system.	China, India, Nepal, Pakistan	2 years	40,000
ARCP2008- 17NMY- Sellers	<b>ARCP2009- 05CMY- Sellers</b>	Peri-Urban Development and Environmental Sustainability: Examples from China and India	Dr. Jefferey Sellers, Geography and Public Policy, University of Southern California, UNITED STATES OF AMERICA (USA)	<a href="mailto:sellers@usc.edu">sellers@usc.ed u</a>	Ecosystems, Biodiversity and Land use	Use of Models of expected urban developmental trajectories and assessments of alternative policies and institutions to contribute to capacity building that can make urbanization more sustainable.	Australia, China, Singapore, USA, India ( <b>agreed cooperation with ARCP2007-13NMY- Li</b> )	2 years	40,000

Original Project/ Proposal Reference Number	New Project Reference Number	Project Title	Project Leader	Email Address	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	2009/10 Funding Awarded (US\$)
ARCP2008- 18NMY- Braimoh	<b>ARCP2009- 06CMY- Braimoh</b>	Managing Ecosystems Services in Asia: A Critical Review of Experiences in Montane Upper Tributary Watersheds	Dr. Ademola Braimoh, Global Land Project, Sapporo Nodal Office, Hokkaido University, JAPAN	<a href="mailto:abrainmoh@glp.hokudai.ac.jp">abrainmoh@glp.hokudai.ac.jp</a>	Ecosystems, Biodiversity and Land use; Crosscutting- Issues and Science-Policy Linkages	Framework development for analyzing information on the production and delivery of ecosystem services that will be inventoried, valued, mapped and the costs of their conservation be assessed.	Indonesia, Thailand, China, Japan	2 years	45,000
ARCP2008- 19NMY- Zou	<b>ARCP2009- 07CMY-Zou</b>	Temperature Sensitivity of Soil CO <sub>2</sub> Efflux as Altered by Rubber Tree Plantations in Southeast Asia	Dr. Xiaoming Zou, Xishuangban na Tropical Botanical Garden, Chinese Academy of Sciences, CHINA	<a href="mailto:xzou2000@yahoo.com">xzou2000@yahoo.com</a>	Climate; Ecosystems, Biodiversity and Land Use; Use of Resources and Pathways for Sustainable Development; Crosscutting- Issues and Science-Policy Linkages	Effect of land conversion from tropical forests to rubber plantations on the cycling of carbon in Southeast Asia, and how biotic factors would regulate the temperature sensitivity of soil respiration to global climate warming in undisturbed tropical forests and rubber plantations	China, Viet Nam, Lao PDR	2 years	30,000
ARCP2008- 20NMY- Iqbal	<b>ARCP2009- 08CMY- Iqbal</b>	Assessment of Food and Water Security in South-Asia under Changing Climate Scenario Using Crop Simulation and Water Management Models, and Identification of Appropriate Strategies to Meet Future Demands	Dr. M Mohsin Iqbal, Head Agriculture Section, Global Change Impact Studies Centre (GCISC), Islamabad, PAKISTAN	<a href="mailto:mohsin.iqbal@gcisc.org.pk">mohsin.iqbal@gcisc.org.pk</a>	Climate; Use of Resources and Pathways for Sustainable Development	Assessment food and water security in South Asian countries for sustainable development under changing climate and help national planners and policy makers to introduce appropriate strategic corrective measures, as necessary.	Pakistan, Nepal, Bangladesh, USA	2 years	30,000

Original Project/ Proposal Reference Number	New Project Reference Number	Project Title	Project Leader	Email Address	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	2009/10 Funding Awarded (US\$)
2008ARCP- FP05-Skole	<b>ARCP2009- 09NSY- Skole</b>	Developing Small-holder Agroforestry Carbon Offset Protocols for Carbon Financial Markets – Twinning Sustainable Livelihoods and Climate Mitigation	Dr. David L. Skole, Michigan State University, UNITED STATES OF AMERICA (USA)	<a href="mailto:skole@msu.edu">skole@msu.edu</a> <a href="#">u</a>	Climate; Ecosystems, Biodiversity and Land Use; Use of Resources and Pathways for Sustainable Development	Development of small- holder agroforestry protocols for the Chicago Climate Exchange working directly with farmers and communities in Laos, Thailand and Vietnam.	USA, Lao PDR, Viet Nam, Thailand	1 year	40,000
2008ARCP- FP09- Gautam	<b>ARCP2009- 10NSY- Gautam</b>	Assessment of Role of Community Forests (CFs) in CO2 Sequestration, Biodiversity, and Land Use Change	Dr. Chinta Mani Gautam, Nepal Development Research Institute (NDRI), NEPAL	<a href="mailto:gautamcm@gmail.com">gautamcm@gmail.com</a> <a href="mailto:info@ndri.org.np">info@ndri.org.np</a>	Climate; Ecosystems, Biodiversity and Land Use	Estimation of CO2 sequestration and document species diversity in selected CFs and analyse the role of CF in land use changes.	Nepal, Indonesia , Japan	1 year	38,050
2008ARCP- FP12-Roy	<b>ARCP2009- 11NSY-Roy</b>	Role of Experiments in Sustainability Transitions in Asia	Prof. Joyashree Roy, Global Change Programme, Jadavpur University, INDIA	<a href="mailto:jroy@cal2.vsnl.net.in">jroy@cal2.vsnl.net.in</a>	Use of Resources and Pathways for Sustainable Development; Crosscutting Issues and Science-Policy Linkages	Scoping workshops to develop a full international research program on the role of innovative development project level experiments in 'sustainability transitions' in Asia and to understand how experiments can come to influence Asian development pathways	India, Philippines, Thailand, USA	1 year	40,000



Original Project/ Proposal Reference Number	New Project Reference Number	Project Title	Project Leader	Email Address	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	2009/10 Funding Awarded (US\$)
2008ARCP-FP16-Sampson	<b>ARCP2009-12NSY-Haeefe</b>	Biochar for Carbon Reduction, Sustainable Agriculture and Soil Management (BIOCHARM)	Dr. Stephan M. Haeefe, International Rice Research Institute, PHILIPPINES	<a href="mailto:s.haeefe@CGIAR.ORG">s.haeefe@CGIAR.ORG</a>	Use of Resources and Pathways for Sustainable Development	A research on identifying the potentials of Biochar sources to reduce CO2 emissions and exploring opportunities for acquiring carbon credits from Biochar for local farmers and char produces through Clean Development Mechanism or voluntary schemes as appropriate.	Cambodia, Philippines, India	1 year	40,000
2008ARCP-FP02-Sthiannopkao	<b>ARCP2009-13NMY-Sthiannopkao</b>	Collaborative Research on Sustainable Urban Water Quality Management in Southeast Asian countries: Analysis of Current Status (comparative study) and Develop a Strategic Plan for Sustainable Development	Dr. Suthipong Sthiannopkao, Gwangju Institute of Science and Technology (GIST), REPUBLIC OF KOREA (ROK)	<a href="mailto:suthi@gist.ac.kr">suthi@gist.ac.kr</a> <a href="mailto:suthisuthi@hotmail.com">suthisuthi@hotmail.com</a>	Use of Resources and Pathways for Sustainable Development; Crosscutting Issues and Science-Policy Linkages	A comparative study in SEA on (1) current and future of urbanization expansion; (2) current water management policies; (3) water quality impacts caused by urban activities and climate change and (4) development of a strategic plan including capacity building programmes.	ROK, Cambodia, Indonesia, Thailand, Viet Nam	2 years	40,000
2008ARCP-FP11-How	<b>ARCP2009-14NMY-Phua</b>	Integrated Prediction of Dipterocarp Species Distribution in Borneo for Supporting Sustainable Use and Conservation Policy Adaptation	Dr. Phua Mui How, School of International Tropical Forestry, Universiti Malaysia, MALAYSIA	<a href="mailto:pmh@ums.edu.my">pmh@ums.edu.my</a>	Ecosystems, Biodiversity and Land Use; Crosscutting Issues and Science-Policy Linkages	Filling the gap of missing information about the dipterocarp species distribution and conservation gap at a landscape scale through an integrated approach that combines remote sensing, GIS and field data.	Malaysia, Indonesia, Japan	2 years	35,350

Original Project/ Proposal Reference Number	New Project Reference Number	Project Title	Project Leader	Email Address	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	2009/10 Funding Awarded (US\$)
2008ARCP- FP13- Marambe	<b>ARCP2009- 15NMY- Marambe</b>	Vulnerability of Home Garden Systems to Climate Change and its Impacts on Food Security in South Asia	Prof. Buddhi Marambe, Faculty of Agriculture, University of Peradeniya, SRI LANKA	<a href="mailto:bmarambe@pdn.ac.lk">bmarambe@pdn.ac.lk</a>	Climate; Ecosystems, Biodiversity and Land Use; Use of Resources and Pathways for Sustainable Development; Crosscutting Issues and Science-Policy Linkages	Assessment of the degree of vulnerability and impacts of changing climates in home garden systems in South Asia using bio-economic models. Obtaining inventories of trees, crops and farm animals to establish current status.	Sri Lanka, India, Bangladesh, USA	2 years	35,000
2008ARCP- FP14- Wang	<b>ARCP2009- 16NMY- Wang</b>	Building Asian Climate Change Scenarios by Multi-Regional Climate Models Ensemble	Dr. Shuyu Wang, Institute of Atmospheric Physics, Chinese Academy of Sciences, CHINA	<a href="mailto:wsy@tea.ac.cn">wsy@tea.ac.cn</a>	Climate	Building of high resolution climate change scenarios for Asia for 2040-2070 using nine regional climate models' outputs. Development of the envelope analysis of ensemble for Asian regional climate projection with the full evaluation and assessment uncertainty originating from RCM downscaling.	China, ROK, Japan, Australia, USA, Thailand	3 years	39,760
2008ARCP- FP15-Luck	<b>ARCP2009- 17NMY-Luck</b>	The Effects of Climate Change on Pests and Diseases of Major Food Crops in the Asia Pacific Region	Dr. Joanne Elizabeth Luck, Cooperative Research Centre for National Plant Biosecurity, AUSTRALIA	<a href="mailto:jo.luck@dpi.vic.gov.au">jo.luck@dpi.vic.gov.au</a>	Climate; Use of Resources and Pathways for Sustainable Development	Investigating the impacts of climate change on the biology and distribution of key agricultural pests and diseases in the Asia Pacific region, encompassing key sites in India and Bangladesh and its implications on cropping.	Australia, India, Bangladesh	2 years	78,240

Original Project/ Proposal Reference Number	New Project Reference Number	Project Title	Project Leader	Email Address	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	2009/10 Funding Awarded (US\$)
2008ARCP- FP17- Schaefer	<b>ARCP2009- 18NMY- Schaefer</b>	Quantifying the Role of Dead Wood in Carbon Sequestration	Dr. Douglas Schaefer, Xishuangban na Tropical Botanical Garden, Chinese Academy of Sciences, CHINA	<a href="mailto:xiedaoan@xtbg.ac.cn">xiedaoan@xtbg.ac.cn</a>	Climate; Ecosystems, Biodiversity and Land Use	Use of advanced techniques of respiration monitoring in quantifying the role of dead wood in carbon sequestration, coupled with woody material manipulations in a variety of Asian forests, and under a wide range of soil conditions.	China, Lao PDR , Viet Nam	2 years	39,270
2008ARCP- FP18-Bai	<b>ARCP2009- 19NMY-Bai</b>	Asian Coastal Ecosystems: An Integrated Database and Information Management System (DIMS) for Assessing Impact of Climate Change and its Appraisal	Dr. V. Ramani Bai, University of Nottingham Malaysia Campus, MALAYSIA	<a href="mailto:Ramani-Bai.V@nottingham.edu.my">Ramani-Bai.V@nottingham.edu.my</a>	Climate	Development of an Integrated Database and Information Management System (DIMS) for understanding Asian Coastal region's ecosystems.	Malaysia, India, Singapore	2 years	40,000

## List of Major Action Points

1. In noting the recent collaboration with GEOSS/AWCI, it was stressed that water issues in the region were important and APN should continue to strengthen its efforts in this area. (Secretariat)
2. The occasion of the 10<sup>th</sup> CBD/COP10 in October 2010, Nagoya, Japan would be a good opportunity for further collaboration with DIVERSITAS. (Secretariat)
3. The Secretariat is to continue to produce annual flyers highlighting the major activities of the APN. (Secretariat)
4. The materials presented at the Proposals Training Workshop are to be disseminated on the APN website. (Secretariat)
5. The technical aspect of the proposal-writing workshop is very important for scientists and the APN is to use this forum as a vehicle for trainees to raise and discuss common regional issues. (Secretariat)
6. The proposals-writing training workshops are to be renamed "Proposal Development Training Workshops". (Secretariat)
7. The Proposal Development Training Workshops are to continue in the future in different countries taking action points 4, 5 and 6 into consideration. (Secretariat)
8. In the financial report, a footnote is to be added regards changes to the budget and accounting procedures. (Secretariat)
9. The APN Secretariat is to continue to engage Singapore in membership discussions, particularly in light of the opportunity for APN to showcase its activities at the ASEAN Conference on Biodiversity in Singapore in October, 2009. (Secretariat)
10. To facilitate negotiations with Singapore, the Secretariat is to draft a letter, which is to be signed by the SC Chair, and posted to the Government at a high level. (Secretariat and SC)
11. Country Reports are NOT to be circulated among the members; however, upon request by the nFPs, the Secretariat may extract and provide specific information from the Country Reports. (Secretariat).
12. More key contacts are to be added to the list of key contacts generated from the analysis. This list is to be provided in the 14<sup>th</sup> IGM proceedings. (nFPs, SPG members, Secretariat)
13. The needs of SA are quite clear and the sub-region would like to establish a sub-regional committee. (Secretariat and members of the SA region)
14. SEA-SRCom Members are planning the 2<sup>nd</sup> SEA Sub-Regional Committee Meeting in August or September 2009. (Secretariat and members of the SEA-SRCom)
15. SRCs are to be considered as informal committees/groups and the status of the sub-regional groupings will be addressed again by the Members at the 15<sup>th</sup> IGM. This includes steps towards improving collaboration with the international programmes based in the sub-regions with, for example, ICSU-ROAP and START. (all members and Secretariat)

16. Secretariat is to implement the Communications strategy and consider the related points as noted in the Chairperson's summary. (Secretariat)
17. The Secretariat is to work on the APN's data policy and Conflict of Interest policy for presentation and endorsement at the 15<sup>th</sup> IGM/SPG. (Secretariat)
18. Need to ensure that the results of the scientific research funded by the APN are fed into the 5<sup>th</sup> Assessment Report of the Intergovernmental Panel on Climate Change (IPCC AR5). The nFP Alternate for Thailand expressed her willingness to coordinate the process. (Secretariat and Thailand)
19. Scientific themes of the past 2 years (12<sup>th</sup>/13<sup>th</sup> IGMs) as well as those identified in the 14<sup>th</sup> IGM are considered relevant for one more year. (Secretariat)
20. The project leaders of training and awareness-raising workshops are to continue to extend invitations to the nFPs and SPG Members of the countries where the workshops are being held, as attendance at various meetings had been very useful. (Secretariat)
21. Conduct the evaluation of the second strategic phase and, in so doing, keep members informed of progress. The Secretariat is to allow for a degree of flexibility in implementing the evaluation, particularly with regards to the timeframe. (Secretariat)
22. Plan and implement a two-year climate synthesis considering all points highlighted in the Chairperson's summary. (Secretariat)
23. Develop methodology, launch a call for proposals, and implement a new focussed activity on *Scientific Capacity Building for Climate Impact & Vulnerability Assessments* considering all points highlighted in the Chairperson's summary. APN-initiated training workshops are also to be considered. (Secretariat, CDC, SPG-SC)
24. All Member countries are to consider providing funds for the activity under action point 23 to ensure continuity of the proposed new activity (Secretariat and all member countries).
25. Implement all collaborative Hyogo activities taking note that the Secretariat is to broaden the involvement of APN Members in all endorsed activities. (Secretariat).
26. The APN is to work closely with DIVERSITAS in engaging in activities related to issues of biodiversity. (Secretariat).
27. The APN is to implement all activities under Visibility at High-Level Fora. (Secretariat)
28. The APN is to continue working with the IAI and explore opportunities where the two networks could make representation in various high-level science-policy fora. (Secretariat)
29. The Secretariat is to implement the 2009/10 Operating Plan (Secretariat)
30. The Secretariat is to consider giving greater priority (i.e. move it up on the list) to the bullet item that addresses the ARCP and CAPaBLE processes in terms of whether the right questions are being asked regards policy relevancy in the short-term Policy Agenda. (Secretariat)

31. Concerning budget plans and financial reports, efforts are to be made to articulate the terminology. (Secretariat)
32. Budget plans and financial reports are to be self-contained and presented in one document only. (Secretariat)
33. General operational costs of the Secretariat are to be kept at a minimum by considering leased equipment and rationalising the volume of printed documents that the APN Secretariat distributes to its members and other institutions. The Secretariat is to seek ways to improve the dissemination of materials in the most effective and cost-efficient manner and is to make every effort to be as environmentally friendly as possible. (Secretariat)
34. The Secretariat is to reflect in the financial report the in-kind contributions per country to recognise the efforts of specific APN member countries in assisting the APN in conducting its activities. (Secretariat)
35. The Secretariat is to continue its efforts in formulating a brief Resources Development Plan working closely with the SC. (Secretariat and SC)
36. The Secretariat is to attempt to seek funds from private foundations. (Secretariat)
37. Implement and manage continuing multi-year projects and new funded projects under the CAPaBLE programme. (Secretariat)
38. Upon request, if some smaller countries need help in developing improved proposals, the Secretariat is to give increasing priority in the coming year (upon request). (Secretariat)
39. Implement and manage continuing multi-year projects and new funded projects under the ARCP programme. (Secretariat)
40. Member countries are to consider hosting the 16<sup>th</sup> IGM/SPG and contact the Secretariat if interested. (nFPs and Secretariat)
41. The 14<sup>th</sup> IGM/SPG proceedings are to contain a list of the locations of all APN meetings and the electronic version of the proceedings is to contain the presentations of the informal dialogue with the GC and be placed on the APN website. (Secretariat).
42. The members are to check the Chairperson's summary for clarity and respond to the Secretariat by 13<sup>th</sup> April. The final summary is to include a list of action points. (Secretariat)

## **SECTION II**

**Item Papers of the  
14<sup>th</sup> APN Inter-Governmental Meeting/  
Scientific Planning Group Meeting**

**Timetable: 14<sup>th</sup> Inter-Governmental Meeting/Scientific Planning Group Meeting  
Kuala Lumpur, Malaysia, 18-20 March 2009**

Day One: Wednesday 18th March		Day Two: Thursday 19th March		Day Three: Friday 20th March	
Time	Item	Time	Item	Time	Item
Session One		Session Four		Session Seven	
09:00-09:20	Opening Address	09:00-10:00	Item 11: SRC Report/Conclusion	09:00-09:30	Item 17: Proposed New Activities
09:20-09:30	Welcome Remarks	10:00-10:30	Item 12: Communications Strategy (for endorsement)	09:30-10:00	Item 18: Proposed 2009/2010 Operating Plan
09:30-09:50	Group Photograph	10:30-10:45	Tea/Coffee Break	10:00-10:30	Tea/Coffee Break
09:50-10:10	Tea/Coffee Break	Session Five		10:30-10:45	Item 19: Proposed Budget Plan
10:10-10:15	Election of Officers	10:45-11:15	Item 13: SPG Report to IGM	10:45-11:15	Item 20: Resources Development
10:15-10:30	Item 1: Adoption of Agenda	11:15-11:45	Item 14: CDC Report to IGM	Session Eight	
Session Two		11:45-12:00	Logistics	11:15-12:00	Item 21: CAPaBLE Projects Recommended for Funding
10:30-11:00	Item 2: Major Activities	12:00-13:00	Lunch	12:00-14:00	Lunch
11:00-11:15	Item 3: Proposal-Writing Training Workshop	Session Six		14:00-14:45	Item 22: ARCP Projects Recommended for Funding
11:15-11:45	Item 4: Financial Reporting	13:00-14:00	Item 15: Evaluation of the 2SP	Session Nine	
11:45-12:00	Item 5: Membership Development	14:00-14:30	Item 16: Election of the SC Members	14:45-15:15	Item 23: Hosting of IGMs (background and discussion)
12:00-13:00	Lunch	14:30	Free Time	15:15-15:45	Item 24: Chairperson's Summary
Session Three				15:45-16:00	Final Remarks and Closing
13:00-13:15	Item 6: Communications Strategy (for info)			16:00-16:30	Farewell Tea/Coffee
13:15-13:30	Item 7: Evaluation of the 2008/2009 Operating Plan			12th Steering Committee Meeting	
13:30-14:45	Item 8: Country Reports			16:30-18:00	12th SC Meeting to introduce new members and to discuss 14th IGM Action Points
14:45-15:00	Item 9: SRC Background/Activities				
15:00-15:45	Item 10: Parallel Session (sub-regional committees)				
15:45-16:15	Tea/Coffee Break				
16:15-17:00	sub-regional committees reconvene				
17:00-17:15	Closing/Logistics				
18:00-19:30	APN & GC Community Informal Dialogue	20:00-24:00	Night Tour for Firefly Viewing organised by the Malaysian Government		
20:00-	Reception Dinner hosted by the Malaysian Government	19:30-	Reception Dinner hosted by the APN Secretariat		



**Agenda of the 14<sup>th</sup> IGM/SPG Meeting  
Kuala Lumpur, Malaysia, 18-20 March 2009**

**Day One: Wednesday 18<sup>th</sup> March**

<b>Session One</b>		<i>Document Reference (action)</i>
<i>09:00-09:10 (IGM/SPG)</i>	<b>Welcome Remarks</b> The APN national Focal Point for Malaysia, Dr. Kok Seng Yap, will provide welcome remarks and welcome participants.	
<i>09:10-09:20 (IGM/SPG)</i>	<b>Welcome Remarks</b> The Secretariat Director, Mr. Tetsuro Fujitsuka, will welcome participants.	
<i>09:20-09:30 (IGM/SPG)</i>	<b>Opening Address</b> The Honorable Minister of Science, Technology and Innovation, YB Datuk Dr. Maximus J. Ongkili, Government of Malaysia, will open the IGM/SPG Meeting.	
<i>09:30-09:50 (IGM/SPG)</i>	<b>Group Photograph</b> All members, experts, guests and staff have a group photograph taken.	
<i>09:50-10:10</i>	<i>Tea/Coffee Break</i>	
<i>10:10-10:15 (SPG Observes)</i>	<b>Election of Officers</b> IGM delegates will elect a Chair and a Vice-Chair. SPG Members observe this session.	
<i>10:15-10:30 (IGM/SPG)</i>	<b>Item 1: Adoption of the Agenda</b> The elected Chair of the meeting will seek adoption of the agenda. Items of Any Other Business (AOB) may be raised.	<b>Item 1:</b> <i>IGM-SPG/14/01</i> (for adoption)
<b>Session Two</b>		
<i>10:30-11:00 (IGM/SPG)</i>	<b>Item 2: Major Activities in 2008/2009</b> The Secretariat Scientific Officer, Dr. Linda Anne Stevenson, on behalf of the Steering Committee (SC) Chair, Mr. Samuel Peñafiel, will report on the activities of the APN from April 2008 to March 2009.	<b>Item 2:</b> <i>IGM-SPG/14/02</i> (for information)
<i>11:00-11:15 (IGM/SPG)</i>	<b>Item 3: Report on the APN Proposal-Writing Training Workshop</b> Prof. Giashuddin Miah will report on the outcomes of the Proposal-Writing Training Workshop, October 2008, Shanghai, China.	<b>Item 3:</b> <i>IGM-SPG/14/03</i> (for information)

11:15-11:45 (SPG Observes)	<b>Item 4: Financial Reporting</b> The Secretariat Executive Manager, Mr. Yukihiro Imanari, will present a final financial report for 2007/8 for approval by the IGM and a draft financial report for 2008/9. SPG observes this session.	<b>Document Reference</b> (action)
11:45-12:00 (IGM/SPG)	<b>Item 5: Membership Development</b> The Secretariat Coordinator, Ms. Perlyn Pulhin, will report on Membership Development.	<b>Item 4:</b> <b>IGM/14/04-1</b> (for approval) <b>IGM/14/04-2</b> (for information)
12:00-13:00	Lunch	<b>Item 5:</b> <b>IGM-SPG/14/05</b> (for information)
<b>Session Three</b>		
13:00-13:15 (IGM/SPG)	<b>Item 6: Communications Strategy</b> Ms. Pulhin will introduce the Communications Strategy to members for information and remind them that the item paper is for further discussion/approval on day two (Item 12).	<b>Item 6:</b> <b>IGM-SPG/14/06</b> (for information)
13:15-13:30 (IGM/SPG)	<b>Item 7: Evaluation of the 2008/2009 Operating Plan (OP)</b> Mr. Fujitsuka will explain the Evaluation of the 2008/9 OP and also present the draft APN's 2009/10 OP to members for information and further discussion. The 2009/10 OP will be approved on day two (Item 18).	<b>Item 7:</b> <b>IGM-SPG/14/07</b> (for discussion)
13:30-14:45 (IGM/SPG)	<b>Item 8: Country Reports (CRs)</b> Ms. Pulhin will briefly present on the outcomes of the CR analysis based on the CRs submitted by national Focal Points (nFPs) for the 14 <sup>th</sup> IGM. A 'tour of the table' will follow, where each nFP introduces themselves and gives a very brief (one-two) minutes update on developments/emerging issues of priority in their respective countries that were not included in the submitted CR. The floor will then be opened for discussion.	<b>Item 8:</b> <b>IGM/14/08</b> (for discussion)
14:45-15:00 (IGM/SPG)	<b>Item 9. SRC Background/Activities</b> Ms. Pulhin will provide a brief background of Sub-Regional Cooperation and the activities conducted to date.	<b>Item 9:</b> <b>IGM-SPG/14/09</b> (for information)
15:00-15:45 (IGM/SPG)	<b>Item 10: Parallel Session (SRC)</b> The members will group into their respective sub-regions to discuss the way forward for each sub-regional committee.	<b>Item 10:</b> <b>IGM-SPG/14/10</b> (for information)
15:45-16:15	Tea/Coffee Break	
16:15-17:00	(Item 10) sub-regional committees reconvene	
17:00-17:15 (IGM/SPG)	<b>Closing and Logistical Arrangements</b> The Chair will adjourn the meeting for the day and the Secretariat will provide logistical information.	

*18:00-19:30*  
*(IGM/SPG)*

**Informal Dialogue with the GC Community**

GC community presentation/poster session (with  
light buffet and drinks) and open discussion

----- END OF DAY ONE -----

**AGENDA**  
**APN Joint 14<sup>th</sup> Inter-Governmental Meeting (IGM)/**  
**Scientific Planning Group (SPG) Meeting**  
**Kuala Lumpur, Malaysia, 18-20 March 2008**

**Day Two: Thursday 19<sup>th</sup> March**

**Session Four**

- |                          |   |
|--------------------------|---|
| 09:00-10:00<br>(IGM/SPG) | <b>Item 11: SRC Report/Conclusion</b><br>Each sub-regional committee will report on the conclusion of the discussion on day one. The floor will be opened for any further discussion. |
| 10:00-10:30<br>(IGM/SPG) | <b>Item 12: Communications Strategy</b><br>Ms. Pulhin will propose the Communications Strategy for discussion and approval.   |
| 10:30-10:45              | <i>Tea/Coffee Break</i>   |

**Session Five**

- |                          |   |
|--------------------------|---|
| 10:45-11:15              | <b>Item 13: SPG Report to IGM</b><br>On behalf of the SPG, the SPG Co-Chair will report to the IGM on the Science Agenda and recommended scientific themes for 2009/10 for discussion and approval. |
| 11:15-11:45              | <b>Item 14: CDC Report to IGM</b><br>A member from the Capacity Development Committee (CDC) will report on the CAPaBLE Programme: CDC Membership, Phase I Evaluation and Call for CRPs.             |
| 11:45-12:00<br>(IGM/SPG) | <b>Logistical Arrangements</b><br>The Secretariat will provide logistical information for the activities in the afternoon.  |
| 12:00-13:00              | <i>Lunch</i>  |

**Session Six**

- |                          |   |
|--------------------------|---|
| 13:00-14:00<br>(IGM/SPG) | <b>Item 15: Evaluation of the 2<sup>nd</sup> Strategic Phase and Formulation of the 3<sup>rd</sup> Strategic Plan</b><br>The Secretariat will report on the progress of the evaluation based on the suggestions/guidance provided by the SC at the 10 <sup>th</sup> SC Meeting. |
| 14:00-14:30<br>(IGM/SPG) | <b>Item 16: Election of the SC Members</b><br>The SC Acting Chair will report the process taken so far regards the nomination of candidates then the election will follow.  |
| 14:30                    | <i>FREE TIME</i>  |

----- END OF DAY TWO -----

**Document Reference**  
(action)

**Item 11:**  
**IGM-SPG/14/11**  
(for information)

**Item 12:**  
**IGM-SPG/14/12**  
(for discussion and approval)

**Item 13:**  
**IGM-SPG/14/13**  
(for discussion and approval)

**Item 14:**  
**IGM/14/14**  
(for discussion)

**Item 15:**  
**IGM-SPG/14/15**  
(for information and discussion)

**Item 16:**  
**IGM-SPG/14/16**  
(for discussion and election)

**DRAFT AGENDA**  
**APN Joint 14<sup>th</sup> Inter-Governmental Meeting (IGM)/**  
**Scientific Planning Group (SPG) Meeting**  
**Kuala Lumpur, Malaysia, 18-20 March 2008**

**Day Three: Friday 20<sup>th</sup> March**

<b>Session Seven</b>		<i>Document Reference</i> (action)
09:00-09:30 (IGM/SPG)	<b>Item 17: Proposed New Activities</b> Secretariat Staff will present on a number of proposed new activities including an event in May 2009 at the 17 <sup>th</sup> UNCSO, Climate Synthesis of APN climate-funded projects, SBSTA 30 (for science-policy interfacing and dialogue between SBSTA and the GC community), a Hyogo-Prefecture earmarked activity for 2008/9 for discussion and approval.	<b>Item 17:</b> <b>IGM-SPG/14/17</b> (for discussion and approval)
9:30-10:00 (IGM/SPG)	<b>Item 18: Proposed 2009/2010 Operating Plan</b> Secretariat Director, Mr. Fujitsuka, will propose the APN's 2009/2010 Operating Plan for discussion and approval.	<b>Item 18:</b> <b>IGM-SPG/14/18</b> (for discussion and approval)
10:00-10:30	<i>Tea/Coffee Break</i>	
10:30-10:45 (SPG Observes)	<b>Item 19: Proposed Budget Plan</b> Mr. Imanari will propose the APN 2009/10 budget plan for discussion and approval.	<b>Item 19:</b> <b>IGM/14/19</b> (for discussion and approval)
10:45-11:15 (IGM/SPG)	<b>Item 20: Resources Development</b> Mr. Imanari will report on Resources Development then the floor will be opened for discussion.	<b>Item 20:</b> <b>IGM/14/20</b> (for discussion)
<b>Session Eight</b>		
11:15-12:00 (SPG Observes)	<b>Item 21: CAPaBLE Projects for Funding</b> On behalf of the SPG, the SPG Co-Chair will recommend CAPaBLE Continuing Multi-Year Projects and New Projects for approval by the IGM. SPG Observes this session.	<b>Item 21:</b> <b>IGM/14/21-1</b> (for approval) <b>IGM/14/21-2</b> (for approval)
12:00-14:00	<i>Lunch</i>	
14:00-14:45 (SPG Observes)	<b>Item 22: ARCP Projects for Funding</b> On behalf of the SPG, the SPG Co-Chair will recommend ARCP Continuing Multi-Year Projects and New Projects for approval by the IGM. SPG observes this session.	<b>Item 22:</b> <b>IGM/14/22-1</b> (for approval) <b>IGM/14/22-2</b> (for approval)

<b>Session Nine</b>
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14:45-15:15  
(IGM/SPG)

**Item 23: Hosting of IGMs**

Secretariat Director, Mr. Fujitsuka, will provide a background of the IGM hosting and discuss hosts for the 15<sup>th</sup> and 16<sup>th</sup> IGMs.

15:15-15:45  
(IGM/SPG)

**Item 24: Chairperson’s Summary**

Members will review and discuss the draft Chairperson’s Summary.

15:45-16:00  
(IGM/SPG)

**Final Remarks and Joint IGM/SPG Closing**

Chair and Secretariat Director will make closing remarks. Secretariat will provide logistical details, if any.

16:00-16:30

*Farewell Tea/Coffee*

**Item 23:**  
**IGM-SPG/14/23**  
(for information)

**Item 24:**  
**IGM-SPG/14/24**  
(for discussion and adoption)

----- END OF DAY THREE -----

## Report and Review of 2008/2009 Activities

This paper summarises the work undertaken by the APN since the 13<sup>th</sup> IGM/SPG Meeting in Kobe, Japan.

### Major Activities since 13<sup>th</sup> IGM/SPG Meeting

- Supporting/managing 20 projects (9 new and 11 continuing) from funded activities budget under the ARCP process
- Supporting/managing 12 new and 1 continuing capacity building (CBs) projects and 3 continuing comprehensive research projects (CRPs) from the funded activities budget under CAPaBLE
- Launching of the 2008 APN Annual Calls for Proposals under ARCP & CAPaBLE Programmes - Received 58 letters of intent; 37 summary proposals for the ARCP and 37 summary proposals for CAPaBLE; 18 full proposals for the ARCP and 19 full proposals for CAPaBLE
- Launching a special Call for Comprehensive Research Proposals and managing the proposal submission and review process – received 11 summary proposals for and 8 full proposals
- CAPaBLE Phase I Evaluation – completed the draft evaluation report (summary for stakeholders) for Phase I of the CAPaBLE Programme
- Organised the 1<sup>st</sup> APN and GEOSS/AWCI Joint Scoping Workshop in Tokyo, Japan on 16-17 April 2008
- Organised an exhibit on the occasion of the G8 Environment Ministers Meeting in Kobe, Japan on 23-26 May 2008
- Organised a Joint Side Event (*Building Joint Capacities in Science and Policy Sectors for Environmental Decision Making*) with IAI at SBSTA 28 in Bonn, Germany on 3<sup>rd</sup> June 2008
- 10<sup>th</sup> Steering Committee Meeting in Manila, Philippines on 6-7 October 2008
- Organised the first APN Proposals-Writing Training Workshop in Shanghai, China on 28<sup>th</sup> October 2008
- Organised the APN International Seminar on Biodiversity and Human Dimensions: Promoting Harmonious Coexistence in Kobe, Japan, on 1<sup>st</sup> February 2009
- Completed preparatory stage of the evaluation of the 2<sup>nd</sup> Strategic Phase and Formulation of the 3<sup>rd</sup> Strategic Plan
- Devised a communications strategy
- APN members and secretariat participated at various national and international fora (more details below)

### Communications and Outreach

#### Publications and other communication tools

- 13<sup>th</sup> IGM/SPG Meeting Proceedings
- Khaskura (Nepal) version of the APN General Brochure
- APN 2008 Flyer (English) and translated into native languages of APN member countries:
  - Japanese
  - Khmer (Cambodia)
  - Korean
- Proceedings of the APN International Seminar on Global Warming and Ecosystem/Biodiversity Changes: Facing the Challenges of Changing Ecosystems
- Proceedings of the 1<sup>st</sup> APN and GEOSS/AWCI Joint Scoping Workshop
- Proceedings of the APN Proposals-Writing Training Workshop
- Annual Report 2007/2008, December 2008
- Project Bulletin, Volume 4, March 2009
- Quarterly Newsletters (electronic copy only)
- Regular updating and maintenance of the APN website and the electronic mailing list (EML)

**Representation at National and International Events**

The APN attended and made presentations at various international fora (including project-related events) to further raise its visibility/recognition in the region.

**April 2008**

- 2<sup>nd</sup> GEOSS Symposium on Integrated Observation for Sustainable Development in the Asia-Pacific Region. Tokyo, Japan (YI, HH, LS)

**May 2008**

- International Workshop on Open Data and Knowledge Environments for Innovative Research and Development. Shanghai, China (HB, LS)
- G8 Environment Ministers Meeting and related events. Kobe, Japan (KG, HH, PP, AS, CT)

**June 2008**

- APN/IAI Side Event at the 28<sup>th</sup> Session of SBSTA. Bonn, Germany (HH, AM, LiB)
- Informal Session on Developments in Research Activities with the parties at SBSTA28. Bonn, Germany (HH, AM, LiB, DW)
- 15<sup>th</sup> Meeting of the IAI CoP. Buenos Aires, Argentina (LoB)
- IGES 10<sup>th</sup> Anniversary Symposium – Symposium on “Strategy to Combat Climate Change in Asia and the Pacific”. Yokohama, Japan. (KG, YI)

**July 2008**

- IGES in-House Seminar. Kanagawa, Japan (YI)
- Proposal Development Meeting (APN Seed Grant). Bangkok, Thailand (LS)

**September 2008**

- 16<sup>th</sup> Environment Congress Meeting for Asia and the Pacific – ECO Asia 2008. Nagoya, Japan (TF, SP, PP)
- IGFA Annual Meeting. Mexico City, Mexico (TF, LoB)

**October 2008**

- EMECS 8<sup>th</sup> International Conference. Shanghai, China (KG, LS)

**February 2009**

- Global Environmental Change and Food Systems (GECAFS) “Environmental Change and Food Security in the Indo-Gangetic Plains: A Briefing and Agenda-Setting Discussion”. New Delhi, India (YI)
- Third GEOSS Asia-Pacific Symposium “Data Sharing for a Transverse GEOSS”. Kyoto, Japan (KG, LS)
- 4<sup>th</sup> AWCI International Coordination Group Meeting. Kyoto, Japan (KG, LS)
- International Symposium on “Realizing Low Carbon Cities: bridging Science and Policy”. Nagoya, Japan (KG, LS)
- Synthesis Workshop for the Project “Regional Collaborative Research on Climate Change Impacts on Surface Water Quality in Eastern Monsoon Asia: Towards Sound Management of Climate Risks. Kota Kinabalu, Malaysia (LS)
- Workshop on Cities at Risk: Building Adaptive Capacity for Climate Change in Asia's Coastal Megacities. Bangkok, Thailand (PP)

**March 2009**

- The APN co-sponsored the 11<sup>th</sup> Pacific Science Inter-Congress: Pacific Countries and their Ocean, Facing Local and Global Changes that took place on 2-6 March 2009 in Tahiti, French Polynesia.

**Issues beyond 14<sup>th</sup> IGM**

- CAPaBLE Phase III (2009–)
- APN Climate Synthesis
- Resources Development
- Evaluation of the 2<sup>nd</sup> Strategic Phase and Formulation of the 3<sup>rd</sup> Strategic Plan



## Proposals-Writing Training Workshop

The executive summary of the APN's First Proposals-Writing Training Workshop is provided below for information and soft copies of the Workshop Proceedings are available in the CD-ROM (reference *IGM-SPG/14/03-Appendix 1*). Professor Giash Miah, SPG Member for Bangladesh will provide an overview of the workshop vis-à-vis a PowerPoint presentation.

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### **Executive Summary Proposals-Writing Training Workshop**

Shanghai, China  
28<sup>th</sup> October 2008

The Proposals-Writing Training Workshop (PWTW) was organised for young/early career scientists in the Temperate East Asia (TEA) and South Asia (SA) sub-regions of the Asia-Pacific by the Asia-Pacific Network for Global Change Research (APN) in partnership with the East China Normal University and EMECS on 28<sup>th</sup> October 2008 in Shanghai, China.

The workshop was structured with the goal of providing information on the Annual Calls for Proposals under the APN's regional research programme (ARCP) and its capacity development programme (CAPaBLE) and enhancing the capacity of young/early career scientists in writing proposals intended for submission to the APN to allow them to compete effectively in the proposals process. In addition, the workshop served as an opportunity for young/early career scientists to participate in the EMECS-8 International Conference: Harmonizing River Catchment and Estuary, which was also held in Shanghai, China.

Eighteen participants from five countries in TEA and SA, i.e. Bangladesh, China, Mongolia, Nepal and Pakistan, as well as 2 resource persons from the APN Secretariat, the Scientific Planning Group (SPG) member for Bangladesh and 2 APN Project Leaders attended the workshop. The first half of the workshop focussed on presentations and discussions on the APN Calls for Proposal Process, Writing a Competitive Proposal for the APN and Lessons Learned, Roles of Scientific Planning Group (SPG) members and national Focal Points (nFPs) in the proposals process and, lastly, on Guidelines and Advice on Proposal Writing. The second half of the workshop covered the hands-on training for the participants in writing and reviewing APN proposals followed by an open discussion and feedback session.

## Financial Management and Reporting

### **Management of Financial Contributions from NSF/USCCSP, U.S.A.**

After many years of discussions with US National Science Foundation and International START Secretariat, an agreement was finally achieved that the financial contribution from the U.S.A. towards the APN can be directly transferred to (through the International START Secretariat) and administered by the APN Secretariat.

The amount of US\$ 384,000 (80% of the total grant of US\$ 480,000) was remitted to the APN's bank account on 16<sup>th</sup> September 2008. The remaining 20% of the total grant (US\$ 96,000) will be remitted to the APN Secretariat, when all reports, including financial reports, of those projects/activities that are supported by funds from NSF/USCCSP's contribution, have been duly submitted and approved by NSF.

The APN Secretariat would like to thank the US National Science Foundation and the APN national Focal Point for the U.S.A., as well as colleagues of the International START Secretariat, for their unfailing cooperation and efforts to realise this very important landmark for the APN.

### **Financial Reporting**

The Steering Committee (SC) recommended in its 10<sup>th</sup> Meeting, held from 06 to 07 October 2008 in Manila, Philippines, to undertake some changes in the way of how APN finances are presented to the members, stakeholders and wider community:

1. In the past, the expenditures in the Financial Reports and Proposed Budget Plans were presented as either "Scientific Activities" or "Administrative Expenses", making the APN to appear an organisation with a huge overhead portion. In the new format, "Scientific Activities" will be renamed to "Science and Policy Activities", which would enable, for instance, IGM/SPG Meetings being included under this new block.
2. It was strongly suggested that "Salaries and Related Costs" of the Secretariat staff must be differentiated in, for instance, "Professional Service for Science and Policy" and "Salaries and Related Costs, Administration". The reason in doing so is that plainly speaking most of the work performed by the Secretariat is not an overhead as such, but should be included under "Science and Policy Activities".
3. In order to avoid any wrong impressions that the APN is not able to use up the available funds in a fiscal year, any indication of remaining operative assets must be considered carefully. In particular, it should be clearly stated what portion of the "operative assets" are due to the very conservative and economical management of the budget and exchange rate fluctuations.
4. The APN Secretariat was instructed to clearly reflect what co-funding/ fund-matching and in-kind contributions are provided to the APN, by showing in a footnote, for instance, what approximate amounts of monetary and in-kind support are given to the APN. It was explicitly noted that this kind of information would be essential for the donating member countries in their attempts of securing more funds for the APN.

## Financial Report (Final) for FY 2007/2008

All figures in US\$

	Financial Report (Final) FY 07/08	Financial Report (Draft) FY 07/08	Budget Plan FY 07/08
<b>REVENUES</b>	<b>1,888,000</b>	<b>1,888,000</b>	<b>1,876,000</b>
Ministry of the Environment, Japan	917,000	917,000	917,000
Hyogo Prefectural Government, Japan	282,500	282,500	280,000
NSF/USCCSP, USA	460,000	460,000	460,000
Australian Greenhouse Office, Australia	23,000	23,000	23,000
Ministry for the Environment, New Zealand	17,000	17,000	17,000
Ministry of Environment, Republic of Korea	10,000	10,000	10,000
Carry Over from FY 06/07 to FY 07/08	178,500	178,500	169,000
<b>EXPENDITURES</b>	<b>1,740,500</b>	<b>1,750,500</b>	<b>1,876,000</b>
<b><u>Science and Policy Activities</u></b>	<b>1,609,000</b>	<b>1,388,000</b>	<b>1,493,000</b>
Annual Regional Call for Proposals (ARCP)	669,000	669,000	685,000
CAPaBLE CRPs	180,000	180,000	180,000
CAPaBLE CBs	314,000	314,000	315,000
International Seminar <sup>1)</sup>	21,000	21,000	20,000
CB Activity on Biodiversity in GEOSS related Issues <sup>2)</sup>	4,000	4,000	40,000
APN/AWCI Collaboration			10,000
COP/MOP 13 (Bali, Indonesia, 03~14 December 2007)	6,000	6,000	10,000
Liaison Trial Activities (Sub-Regional Cooperation Meetings)	13,000	8,000	15,000
13th IGM/SPG (including 7th SC Meeting)	92,000	97,000	100,000
Professional Service for Science and Policy	224,000	--	--
Programme Fellowship	45,000	45,000	45,000
Travel for Science, Policy and Institutional Activities	17,000	16,000	30,000
Publications & Website Management	24,000	28,000	28,000
Contingency for Scientific Activities	0	0	10,000
Reserve for Exchange Rate Fluctuations	0	0	5,000
<b><u>Administrative Expenses</u></b>	<b>131,500</b>	<b>362,500</b>	<b>383,000</b>
Salaries and Related Costs, Administration	48,000	282,000	306,000

General Operational Cost of the APN Secretariat	56,000	53,000	50,000
IGES Overhead (3% of MOEJ's contribution to the APN)	27,500	27,500	27,000
<b>Carry Over to FY 2008/09</b>	<b>147,500</b>	<b>138,000</b>	--

1) "Global Warming and Ecosystem/Biodiversity Changes: Facing the Challenge of Changing Exosystems"

1) & 2) These activities were explicitly conducted by using contributions from Hyogo Prefectural Government

Exchange Rate FY 2007/2008:

US\$ 1.00 = JPYen 125

US\$ 1.00 = AUS\$ 1.30

US\$ 1.00 = NZ\$ 1.47

## Draft Financial Report for FY 2008/2009

All figures in US\$

	<b>Financial Report (Draft) FY 08/09</b>		<b>Budget Plan FY 08/09</b>		
<b>REVENUES</b>	<b>1,927,000</b>		<b>1,917,000</b>		
Ministry of the Environment, Japan	963,000			963,000	
Hyogo Prefectural Government, Japan	294,000			294,000	
NSF/USCCSP, USA	480,000			480,000	
Australian Greenhouse Office, Australia	--			--	
Ministry for the Environment, New Zealand	20,000			20,000	
Ministry of Environment, Republic of Korea	10,000			10,000	
Operative Assets from FY 07/08 to FY 08/09	160,000			150,000	
<b>EXPENDITURES</b>	<b>1,886,000</b>		<b>1,917,000</b>		
<b>Science and Policy Activities</b>		<b>1,722,000</b>			<b>1,760,500</b>
Annual Regional Call for Proposals (ARCP)	718,000			720,000	
CAPaBLE	525,000			510,000	
- Comprehensive Research Projects:	180,000		180,000		
- Capacity Building Projects:	345,000		330,000		
Other Scientific Activities	68,000			81,000	
- EMECS 2008 (Shanghai, China) <sup>1)</sup>	25,000		15,000		
- Int'l Seminar <sup>2)</sup>	16,000		20,000		
- APN/IAI Joint Side Event at SBSTA 28	13,000		13,000		
- Capacity Building Activity in GEOSS related Issues	14,000		33,000		
- APN/AWCI Collaboration <sup>3)</sup>					
Sub-Regional Cooperation Meetings	0			15,000	
IGM/SPG (including SC Meetings)	97,000			97,000	
Professional Service related to Science/Policy	250,000			235,000	
Programme Fellowships	30,000			48,500	
Travel for Science, Policy and Institutional Activities	22,000			18,000	
Publications & Website Management	12,000			28,000	
Contingency for Scientific Activities	0			5,000	

Reserve for Exchange Rate Fluctuations		0		3,000	
<b>Administrative/Overhead Costs</b>			<b>164,000</b>		<b>156,500</b>
Salaries and Related Costs, Administration		70,000		74,000	
General Operational Cost of the APN Secretariat <sup>4)</sup>		65,000		53,500	
IGES Overhead (3% of MOEJ's contribution to the APN)		29,000		29,000	
<b>Remaining Operative Assets from FY 2008/09</b>			<b>41,000</b>		

1), 2) and 3) were conducted as Hyogo Activities: APN/AWCI Joint Scoping Workshop (Tokyo, Japan, April 2008), EMECS 2008 (Shanghai, China, October 2008), and APN International Seminar "Biodiversity and Human Dimensions: Promoting Harmonious Coexistence" (Kobe, Japan, February 2009).

4) including US\$ 4,000 for Electricity

Exchange Rates FY 2008/09:

US\$ 1.00 = JPYen 115

NZ\$ 1.00 = US\$ 0.80

**Additional Contribution:**

Co-Funding/Fund Matching from APN Funded Projects/Activities: **US\$ 600,000**

In-Kind Contribution from APN Funded Prjects/Activities: **US\$ 350,000**

In-Kind Contribution of Member Country Governments: **US\$ 530,000**

Malaysian Government's Contribution towards the 14th IGM/SPG: **US\$ 6,000**

**Remaining Operating Assets and Savings through Exchange Rate Fluctuations vs.  
Additional Support of Scientific Activities**

Remaining Operating Assets from FY 2008/2009	41,000
Savings through Exchange Fluctuations	76,000
	<b>117,000</b>
Greenhouse 2009, Perth, Australia, March 2009	19,000
ARCP2008-20NMY-Iqbal, Supplemental Support	10,000
Pacific Science Inter-Congress, Tahiti, French Polynesia, March 2009	10,000
CBA2008-06NSY-Fuchs/Lewis, Supplemental Support	10,000
	<b>49,000</b>
<b>Operative Assets from FY 08/09 to FY 09/10</b>	<b>68,000</b>

## Membership Development

### New APN Members

Following the 13<sup>th</sup> IGM/SPG Meeting in Kobe, Japan, four new national Focal Points (nFP) and five new Scientific Planning Group (SPG) members were appointed. The position of nFP for the Russian Federation remains vacant.

FP	Former	New
Fiji	vacant	Mr. Epeli NASOME <i>Director</i> <i>Department of Environment</i> <i>Ministry of Lands, Mineral</i> <i>Resources and Environment</i>
Japan	Mr. Naoya TSUKAMOTO <i>Director</i> <i>Global Environment Research</i> <i>Office, Ministry of the Environment</i>	Mr. Hiroshi ONO <i>Director</i> <i>Global Environment Research Office</i> <i>Ministry of the Environment</i>
Lao PDR	Mr. Phonechaleune NONTHAXAY <i>Deputy Director General</i> <i>Environment Research Institute</i> <i>Science, Technology and</i> <i>Environment Agency</i>	Dr. Bountanh BOUNVILAY <i>Deputy Director General</i> <i>Water Resources and Environment</i> <i>Research Institute</i>
Pakistan	Mr. Muhammad Tanvir BUTT <i>Deputy Secretary</i> <i>Ministry of Environment</i>	Ms. Neelofur HAFEEZ <i>Deputy Secretary</i> <i>Ministry of Environment</i>
SPG	Former	New
Fiji	Mr. Epeli NASOME <i>Director</i> <i>Department of Environment</i> <i>Ministry of Lands, Mineral</i> <i>Resources and Environment</i>	Mr. Rajendra PRASAD <i>Director</i> <i>Fiji Meteorological Service</i>
India	vacant	Prof. B.N. GOSWAMI <i>Director</i> <i>Indian Institute of Tropical</i> <i>Meteorology</i>
Lao PDR	Mr. Chanthanet BOUALAPHA <i>Deputy Director</i> <i>Water Resources and Environment</i> <i>Administration, Prime Minister's</i> <i>Office</i>	Mr. Oulapnone ONGKEO <i>Deputy Director</i> <i>Water Resources and Environment</i> <i>Research Institute</i>
Philippines	Mr. Marcial AMARO, Jr. <i>OIC-Director</i> <i>Ecosystems Research and</i> <i>Development Bureau</i>	Dr. Leuvina TANDUG <i>OIC-Director</i> <i>Ecosystems Research and</i> <i>Development Bureau</i>
Republic of Korea	Dr. Kwang-woo CHO <i>Senior Scientist</i> <i>Korea Environment Institute</i>	Dr. Chang-keun SONG <i>Senior Researcher</i> <i>National Institute of Environmental</i> <i>Research</i>



To fill the position of nFP for the Russian Federation, the Secretariat sought the advice of Prof. Alexander Sterin (SPG Member for Russian Federation) on exploring possible channels. Prof. Sterin identified a contact person and the Secretariat approached Dr. Alexander Bedritsky, Head of Roshydromet, seeking his support in nominating the nFP for the Russian Federation to participate in APN's activities. The Russian Government is undergoing structural changes and Prof. Sterin advised that it might take time before a new nFP will be appointed. The Secretariat will follow-up with Prof. Sterin and Dr. Bedritsky.

### Changes in the APN Secretariat

The APN Secretariat has undergone many changes since the 13<sup>th</sup> IGM/SPG Meeting. New Members joined the Secretariat in the positions of Director, Administrative Manager, Administrative Assistant and Programme Fellow for Scientific Affairs, Support Staff (part-time).

Position	Former	New
Director	Hiroki Hashizume	Tetsuro Fujitsuka
Administrative Manager	Ryoichi Gotou	Akihiro Shiomi
Communications Officer	Jody Chambers	none
Coordinator	Maricel Tapia	Perlyn Pulhin
Administrative Assistant	Kanako Tamada	Chiyo Tokushima
Programme Fellow for Scientific Affairs	Herbert Benzon	Kristine Garcia
Programme Fellow for Communications and Development	Perlyn Pulhin	none
Support Staff (part-time)	Natsuki Niimi	

With the changing needs and continuous growth of the APN, discussions on Secretariat staffing are underway in order to cope with the increasing work demand.

### New Member Countries

#### Singapore

The APN has been in communication with the Ministry of Environment and Water Resources (MEWR) of Singapore since 2005. Mr. Hiroki Hashizume, APN Secretariat former Director, met with Mr. Eng Tiang Sing and Mr. Soon Beng of MEWR in February 2008, following up on a visit in August 2006. The new APN Secretariat Director, Mr. Tetsuro Fujitsuka, formally extended an invitation to Singapore by sending a letter in January 2009 to once again consider membership in the APN.

This letter stressed that membership within the APN will undoubtedly promote a stronger relationship between Singapore and other countries in the Asia-Pacific region, resulting too in stronger regional capabilities in the area of global environmental change research. Singapore is considered to be a huge missing part for the network covering Asia and the Pacific and while the country is already eligible to submit proposals to the network for funding as an approved country of the APN (provided that all requirements for eligibility are met), full membership would allow further collaboration and participation in all APN activities. Mr. Fujitsuka took the opportunity to invite Singapore to participate at the 14<sup>th</sup> IGM/SPG Meeting as an observer since the country is at the doorstep of Malaysia and to discuss membership issues in more detail and for Singapore to become better informed of the APN and its activities.

In response, and after giving due consideration, Singapore decided to defer the decision of becoming an APN member to a more appropriate time in the future and they are unable join the Meeting. Discussions will continue in the future.

#### Bhutan

As part of the continuing pursuit of new country membership of interested parties in the Asia-Pacific region, the Secretariat sent follow-up correspondence to Mr. Karma Chhopel of the National Environment Commission, Bhutan to confirm if the Government is still

interested to become a member of the APN. The Secretariat received a response that the Minister of the National Environment Commission Secretariat was informed about the membership process and the APN Secretariat will be notified about the progress in due course.

## Devising the APN's Communications Strategy

At the 10<sup>th</sup> SC Meeting, a paper was presented seeking guidance on including the various past and ongoing communication efforts of the APN in a 'Communications Strategy' that is specific, attainable, realistic and appropriate to the network. This is in view of recognising that effective communication is crucial to the success of any organisation and noting that the APN has been implementing a number of specific actions to realise the broad strategies in many communication aspects that are highlighted in the APN Second Strategic Plan (2SP) under the Institutional Agenda.

**This paper and the appended IGM-SPG/14/06-App1 aims to:**

- Highlight the communications elements in the APN 2SP;
- Report past and ongoing efforts, summarising the work of APN to date in making 'communication' an effective tool in achieving more relevance in the region;
- Solicit further suggestions on the way forward especially on using communication as a tool to empower the APN national Focal Points and SPG Members; and
- Seek IGM approval to endorse the appended 'APN Communications Strategy' as part of short and long-term plan under the Institutional Agenda

### **Communication aspects in the APN Second Strategic Plan**

Since the 2SP was adopted at the 10<sup>th</sup> IGM, the Steering Committee and the Secretariat has been implementing the actions and strategies outlined in the Strategic Plan. On the "Implementation and Evaluation," section (pages 14-15 of the 2SP); several strategies are listed that fall under the broad umbrella of Communication:

*(#5) The Secretariat will develop, update, and implement a "communications and information plan" including procedures for information collection, handling and dissemination in a strategic way that will support the entire network.*

*(#6) The APN will ... find ways to strengthen member governments' sense of partnership and ownership, including more frequent efforts to determine their policy needs and priorities relating to global change.*

*(#7) The APN will enhance year-round communications between national Focal Points, SPG members, Liaison Officers and the Secretariat and strengthen the role of the IGM, develop a more interactive relationship with national Focal Points, and strengthen the role of Focal Points within the APN and the global change research community (scientific and policy-making). The APN will also conduct a review of the role of Liaison Officers and make changes to better meet APN objectives.*

*(#9) The APN will engage more proactively in dialogue with each of the main global change research partners (especially DIVERSITAS, IGBP, IHDP, WCRP, ESSP, START; and APN's sister network, the IAI) to identify ways to contribute to the achievement of each other's goals.*

### **Past and ongoing communication efforts**

Below is a summary of the work that APN has done and is currently doing that are associated with the above strategies from the 2SP. Please note that the below list does not include the independent work of the project leaders and their collaborators in communicating the outcomes of the APN-supported projects to intended audiences.

- **Website (related to #5).** This is an important communication tool of the APN which, from the time it was established, has become a source of useful information about APN, how it is structured, who are the key players; details on the projects that APN supported and is currently supporting as well as outputs from these activities; publications that were produced; global change events; and other activities that

were conducted in the past. The website is maintained and updated on a regular basis to further disseminate information to the public and to make the project outputs accessible to the global change community.

- ***Electronic Mailing List (related to #5)***. APN is maintaining an electronic mailing list (EML) and making use of this to strategically disseminate information and support the network. Aside from the quarterly Newsletter, periodic announcements and notifications that are related to global/climate change or to APN activities are also distributed via EML. These include: upcoming GC events, calls for abstracts/papers, release of new publications such as technical papers, policy briefs, etc. APN also welcomes requests from partner organisations to post announcements on the website and distribute via the APN EML. The Secretariat also subscribes to other mailing list groups of various organisations in order to receive up-to-the-minute information and further disseminate it to its Members and the GC community.
- ***Publications (related to #5)***. Publications, in hard and electronic formats, are being produced to provide scientific information to policy-makers and the public, to further promote the network in the region, and to encourage involvement in APN activities. APN disseminates the following: annual report; newsletter; evaluation report; strategic plan; activity, project and regional reports; project bulletin; reports of funded activities; proceedings of meetings; synthesis reports; flyers; posters; brochures, etc. Recent efforts include the translation of information materials to the native language of member countries and dissemination of these local versions at the national level.
- ***Strengthening member governments' sense of partnership/ownership (related to #6)***. During the IGM, the members (nFPs in particular) are given the opportunity to share their policy needs and priorities relating to global change. The APN also seeks guidance from the members on best practices and opportunities to promote interactions between science and policy. With regards to projects, the Secretariat is making efforts to communicate with the APN members the details about the projects being conducted in their countries. The members are also continuously reminded to represent APN as far as possible and promote its activities at appropriate events.
- ***Enhancing communications within the APN organs and with the wider global change community (related to #7 and #9)***. The Secretariat has been pro-active in enhancing communication with the members and in the past two and a half years, more interactive and strengthened roles have been realised with the active involvement and cooperation of the members in the translation, printing and dissemination of the APN general brochure and flyer. With regards to communication among the members and with the GC community, the APN is fully utilising the IGM/SPG Meeting to provide a forum where the APN nFPs, SPG members, Secretariat and the GC community could share information and exchange ideas on planning future collaborative activities of mutual interest.
- ***Sub-regional activities (related to #7)***. To further enhance communications among APN members and project leaders at the sub-regional level, a new Liaison Model was introduced as an alternative mechanism to the APN-appointed Liaison Officers. With the new model, the APN is pursuing sub-regional activities through sub-regional committees; subject to further review of the SC and the IGM.
- ***Outreach and visibility***. The APN has been engaged in a number of outreach activities since the adoption of the 2SP (please see below list). We define outreach here in the context of connecting APN ideas, practices, and activities to the efforts of other organisations, groups, specific audiences or the public and framed as an engagement rather than solely dissemination of information.

<b>Year</b>	<b>Outreach activities</b>
2005-2006	APN Capacity Building/Scoping Workshops on GEOSS
2006	Side-Event at SBSTA 24
	Asia-Pacific Session at EMECS 7
2007	Side Event at COP13-COP/MOP3
2007-2008	AWCI/GEOSS-related activities
2008	APN-IAI Joint Side-Event at SBSTA 28

As regards raising visibility/recognition of APN in the region, the Secretariat and the Members have been attending and making presentations in various international fora. Attendance at these events is regularly reported to the IGM under 'Summary of Activities'. The Secretariat also has become more proactive in exploring occasions where APN could further raise its profile.

### **Communication as a tool in empowering APN Members**

The success of the APN over the years has been made possible by the continuous support of the nFPs and SPG Members and the network heavily relies on their cooperation. It is, therefore, crucial to empower them so they can deal effectively with the changes that APN undergoes and to be of greater help in realising its goals.

Empowerment involves developing confidence in ones' own capacities and unless the Members are sufficiently empowered, they cannot be expected to become fully confident in representing APN in various occasions. Before the members could communicate the relevance of APN to others, they themselves should be aware of what is going on in the network and they should be assertive in making suggestions on how APN could improve its initiatives and current endeavours.

Though it is difficult to provide continuous empowerment to APN members as they continue to rotate (especially the nFPs), the appended Communications Strategy contains suggestions on how to engage the members to be more actively involved in APN activities.

## (DRAFT) APN's Communications Strategy

This draft Communications Strategy has been devised to facilitate continuity and to advance APN efforts in:

- Demonstrating its work within and outside the region;
- Effectively communicating the outcomes of the projects it supports;
- Strategically disseminating the results and outputs of its activities to the global change (gc) community, including scientists, decision-makers and the public through various platforms
- Enhancing communications among the APN organs and with the wider global change community

### **Continuously producing and improving the communication tools**

#### Publications

Continue to produce (in-house) and improve the appearance and quality (in terms of conciseness and clarity) of the following publications to make them more interesting and effective in providing information to the broader scientific community, policy-makers and the public.

- Proceedings of meetings, symposia, workshop
- Brochure that provides general introduction about APN
- Flyer that highlights major activities undertaken by the APN in the previous year and summarises the current projects being supported
- Project bulletin
- Annual report
- Quarterly newsletters
- Posters
- CD-ROMs containing APN publications and project reports

#### Website

Revamp the APN website to attract more visitors who access information on global change and thus further promote APN and its activities in the public domain. Changes may include but not be limited to: enhanced navigation structure, extensive linkages to other appropriate organisations, continuously updated content that clearly and accurately reflects APN's structure, activities under the ARCP and CAPaBLE Programme, and a number of searchable databases for contacts, meetings and publications, etc.

### **Developing new communication tools**

- Press release – actively consider press releases to the media; issue joint press releases from the Secretariat and the country where an APN-related activity is taking place and ensure that the national Focal Points are well-informed
- Policy briefs – start from the submitted country reports by the member countries
- Synthesis reports or book from the synthesis activities

### **Organising outreach activities**

Continue to organise outreach activities and disseminate APN materials to further promote the network in the region and to encourage involvement of more stakeholders in APN activities.

### **Establishing/strengthening partnerships**

- Maintain close liaison and strengthen the relations with the global change programmes and key organisations to explore better ways of collaboration in achieving shared goals
- Be more open and pro-active in establishing new ties/collaboration with other organisations in the region involved in global change research, capacity building/enhancement and policy development

- Explore mechanisms of engaging other countries (institutions) outside the region for mutually beneficial endeavours

#### **Raising APN visibility**

- Expand more substantive APN activity to and supportive of policy-making, such as policy fora and symposia to contribute in raising APN profile in the region
- Use all opportunities to mention the APN at high-level ministerial meetings attended by national Focal Points
- Fully utilise other available infrastructure (such as the IGES facility) in promoting APN and disseminating information

#### **Empowering APN members**

The use of an appropriate communication platform is important in engaging the APN members to be more actively involved in APN activities.

- Create a web-based information tool where Members can have free access (or password-protected) to all the APN materials that they need.
- Add a portal on the APN website that will serve as a forum where Members can exchange information and ideas. This portal could be later expanded and opened to the public.
- Provide/supply the APN Members with useful materials for information and dissemination to their own networks.
- Convene a meeting (or include as a separate session/item of the IGM) devoted solely on empowering the Members and assessing how they progress on being more involved in APN activities and defining specific actions they have done as an APN Member. This strategy requires strengthening of the membership and full support/commitment from the Members should be realised beforehand.
- Be more proactive and diligent in reminding the Project Leaders to report the progress and outcomes of their activities to the nFPs and SPG Members in their countries/sub-regions.

## Operating Plan

<b>APN's Operating Plan 2008/2009 (approved at IGM-SPG 13)</b>	<b>Secretariat's Review of the Current Status of Implementation of the Operating Plan 2008/2009</b>	<b>APN's Operating Plan 2009/2010 (draft)</b>
<p><b>Introduction</b> It is highlighted in the Second Strategic Plan that the Secretariat and the Steering Committee will prepare an annual operating plan for approval by the IGM.</p> <p>At the end of each year, the Steering Committee will evaluate APN's achievements related to the annual operating plan.</p> <p>Based on the draft prepared by the Secretariat with the advice of Subramanian Moten, SPG Member for Malaysia, the 3<sup>rd</sup> SC (March 2006, Bangkok) developed the APN's Second Strategic Phase 2005-2010 Operating Plan. The 11<sup>th</sup> IGM endorsed it.</p> <p>In the year 2006/2007, the Operating Plan was in effect equivalent to an annual Operating Plan for the year. At the end of 2007/2008, like in the previous year, the Secretariat and the SC reviewed APN's achievements related to the Operating Plan based on the annual report of activities and the Secretariat's review note on the implementation of the Operating Plan together with the audited financial report, and prepared the Operating Plan for 2008/2009 with two timescales:</p> <ul style="list-style-type: none"> <li>• Short-term (April 2008 to March 2009) and</li> </ul>		<p><b>Introduction</b> It is highlighted in the Second Strategic Plan that the Secretariat and the Steering Committee will prepare an annual operating plan for approval by the IGM.</p> <p>At the end of each year, the Steering Committee will evaluate APN's achievements related to the annual operating plan.</p> <p>Based on the draft prepared by the Secretariat with the advice of Subramanian Moten, SPG Member for Malaysia, the 3<sup>rd</sup> SC (March 2006, Bangkok) developed the APN's Second Strategic Phase 2005-2010 Operating Plan. The 11<sup>th</sup> IGM endorsed it.</p> <p>In the year 2006/2007, the Operating Plan was in effect equivalent to an annual Operating Plan for the year. At the end of 2008/2009, like in the previous year, the Secretariat and the SC reviewed APN's achievements related to the Operating Plan based on the annual report of activities and the Secretariat's review note on the implementation of the Operating Plan together with the audited financial report, and prepared the Operating Plan for 2008/2009 with two timescales:</p> <ul style="list-style-type: none"> <li>• Short-term (April 2009 to March 2010) and</li> </ul>



<ul style="list-style-type: none"> <li>• Medium- and long-term (April 2008 to March 2010 and beyond into 3<sup>rd</sup> Strategic Phase).</li> </ul>		<ul style="list-style-type: none"> <li>• Medium- and long-term (April 2009 to March 2010 and beyond into 3<sup>rd</sup> Strategic Phase).</li> </ul>
<p><b>SCIENCE AGENDA</b> <b>Short-term (Year 2008/09)</b></p> <ul style="list-style-type: none"> <li>• Establish, revise, update scientific priorities annually, based on input from nFP, SPG members and others.</li> <li>• Launch two calls for proposals simultaneously for ARCP and CAPaBLE and encourage submission of proposals.</li> <li>• Identify global change events – meetings, conferences, etc, appropriate to the APN. Create a calendar of events and plan attendance and/or discuss opportunities to co-organise, co-host.</li> </ul>	<ul style="list-style-type: none"> <li>- Priorities in the 2nd SP were confirmed at IGM 13. To be discussed at 14<sup>th</sup> IGM/SPG with the outcomes of the country report in 2008/2009. 14<sup>th</sup> SPG/IGM is expected to identify relevant priorities for 2009/2010</li> <li>- Done for 2008/2009 call for proposals. Similar number of proposals as in the past was submitted under ARCP while number of proposals received under CAPaBLE was the highest by far. An additional call for proposals was launched for Phase III of the CAPaBLE comprehensive research programme</li> <li>- Done as shown in the APN Newsletters, Website, the Annual Report 2007/2008 and periodical special notice mails. Some APN members found such information is very useful to plan their work. Further cooperation from members and GC communities is expected. Participated in several global change events of international importance.</li> </ul>	<p><b>SCIENCE AGENDA</b> <b>Short-term (Year 2009/10)</b></p> <ul style="list-style-type: none"> <li>• Establish, revise, update scientific priorities annually, based on input from nFP, SPG members and others.</li> <li>• Launch two calls for proposals simultaneously for ARCP and CAPaBLE and encourage submission of proposals.</li> <li>• Identify global change events – meetings, conferences, etc, appropriate to the APN. Create a calendar of events and plan attendance and/or discuss opportunities to co-organise, co-host.</li> <li>• Consider a joint side event at SBSTA30 with the GC community (tentative). Attend the Informal Side Event of SBSTA Secretariat with the GC community, APN and IAI.</li> </ul>

<ul style="list-style-type: none"> <li>• Produce an Annual Science Bulletin for all ongoing projects under the ARCP and CAPaBLE processes.</li> <li>• Annual Report – detail projects that were completed during each particular year and cite any publications, regardless of whether WIP (Work In Progress), in press, or already published.</li> <li>• Follow-up on completed projects from the first strategic phase (1999-2004) and identify peer-reviewed publications.</li> <li>• CAPaBLE Phase I activities.</li> <li>• Continue to be pro-active in devising</li> </ul>	<ul style="list-style-type: none"> <li>- Done for 2007/2008 projects as already distributed. 2008/9 will be presented at the 14<sup>th</sup> IGM in hard copy. Electronic Copy is available on the website.</li> <li>- Done for 2006/2007 projects as already distributed. 2007/8 completed in December 2008 and published electronically. Hard copies will be presented at the 14<sup>th</sup> IGM.</li> <li>- Done as in the Project Bulletin and in the Annual Report. Some publications are known to be in preparation. (In 2008/09, the last projects based on the first SP were finalised.)</li> <li>- Progressing well. CAPaBLE Phase I brochure was completed in December 2007 and showcased internationally. Evaluation of Phase I was completed in 2008/9 and, based on the 10<sup>th</sup> SC, a synthesis of successful outputs is to be published based on the first brochure and showcased at various fora including the 17<sup>th</sup> UNCSD in May 2009.</li> <li>- Done as shown in the Newsletter</li> </ul>	<ul style="list-style-type: none"> <li>• Attend 17<sup>th</sup> UNCSD and showcase CAPaBLE Phase I activities (vis-à-vis a synthesis of successful outputs)</li> <li>• Produce an Annual Science Bulletin for all ongoing projects under the ARCP and CAPaBLE processes.</li> <li>• Produce an Annual Report in the third quarter of the fiscal year (Oct-Dec) – detail projects that were completed during each particular year and cite any publications, regardless of whether WIP (Work In Progress), in press, or already published.</li> <li>• Follow-up on completed projects from the first strategic phase (1999-2004) and identify peer-reviewed publications. As a part of the second strategic phase evaluation, identify sustainability of first phase completed and current status (aim of identifying impact of APN funding).</li> <li>• CAPaBLE Phase One evaluation results have to be showcased vis-à-vis a synthesis of successful activities based on the design of the Phase I brochure. Suggested fora: 17<sup>th</sup> UNCSD, SBSTA32, COP/MOP15, etc.</li> <li>• Continue to be pro-active in devising science</li> </ul>
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<p>science (and policy) calendars of events.</p> <ul style="list-style-type: none"> <li>• Capacity Development Committee (CDC) addresses the CAPaBLE strategies outlined in the Second Strategic Plan and devise an appropriate plan.</li> <li>• Identify priority topics and timelines for CAPaBLE in and after 2009/10.</li> </ul>	<p>and the APN website (Global Change Announcements and Calendar of GC Activities). Further cooperation from members and GC communities is expected.</p> <ul style="list-style-type: none"> <li>- Being done. Every year, the CDC and the SPG review the CAPaBLE processes and implement the programme in an improved manner.</li> <li>- IGM/SPG 13 confirmed the need for continuation of CRPs. Call for Proposals was launched in impacts, vulnerabilities and adaptation. 14<sup>th</sup> IGM expected to endorse new CRPs for funding from April 2009 for 3 years until March 2012. 14<sup>th</sup> IGM will also be asked to endorse a proposed new activity (by MOEJ) for capacity building activities in climate and related impact assessments for funding from September 2009.</li> </ul>	<p>(and policy) calendars of events.</p> <ul style="list-style-type: none"> <li>• Capacity Development Committee (CDC), with the aid of the Secretariat, under its Terms of Reference will continue to address the CAPaBLE strategies outlined in the Second Strategic Plan and devise an appropriate plan.</li> <li>• Implement new Phase III CRP projects and track progress in Year 1 and beyond.</li> <li>• Identify and implement a process for funding climate and related assessment activities with funding from September 2009 under the CAPaBLE programme.</li> </ul>
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<b>Medium and Long-term (Year 2008/09 and beyond)</b>		<b>Medium and Long-term (Year 2009/10 and beyond)</b>
<ul style="list-style-type: none"> <li>• Encourage APN-supported projects to produce publications that will feed into governmental policy-processes such as the IPCC 5<sup>th</sup> AR, Panels of the Montreal Protocol, Millennium Ecosystem Assessment, and International Panel on the Sustainable Use of Natural Resources.</li>   <li>• Consider options for co-hosting an event with IAI and/or other GC partners.</li>   <li>• Plan and conduct one or more syntheses of APN activities on a topic (or topics) that are identified.</li>   <li>• Publish a synthesis of APN activities from identified topic(s).</li>   <li>• Perform an evaluation of Phase 2</li> </ul>	<ul style="list-style-type: none"> <li>- Done in the Call for Proposals for 2008/2009 based on the suggestion at the 13<sup>th</sup> SPG. Suggestions by IGM/SC/SPG members for identifying such processes, other than the below, are appreciated. <ul style="list-style-type: none"> <li>➤ Assessment panels of the Montreal Protocol</li> <li>➤ MEA (Millennium Ecosystem Assessment) and CBD, CCD and Ramsar Convention</li> <li>➤ IPSUNR (Int'l P on the Sust Use of Nat Res) and Marrakech Process, MEA</li> </ul> </li>   <li>- Conducted a joint event at SBSTA28 in May 2008 with IAI in mainstreaming science into policy.</li>   <li>- SPG 12 and 13 feels such has been well realised by publishing the Annual Reports, Project Bulletins. Currently producing a synthesis of CAPaBLE Phase 1 activities (from 10<sup>th</sup> SC Meeting) based on successful outputs of Phase 1 evaluation. Synthesis of climate activities will be introduced as a proposed new activity for 2 years for 14<sup>th</sup> IGM endorsement.</li>   <li>- Currently being undertaken and is</li> </ul>	<ul style="list-style-type: none"> <li>• Continue to encourage APN-supported projects to produce publications that will feed into governmental policy-processes such as the IPCC 5<sup>th</sup> AR, Panels of the Montreal Protocol, Millennium Ecosystem Assessment, and International Panel on the Sustainable Use of Natural Resources.</li>   <li>[--&gt; Short-term]</li> <li>• Consider options for co-organising events with the global change community (SBSTA30, for example)</li>   <li>[--&gt; Short-term]</li> <li>• Publish a synthesis of successful Phase I activities using the Phase I brochure template.</li>   <li>[--&gt; Short to Medium-term]</li> <li>• Conduct a 2-year synthesis of APN climate projects for publication and presentation to the 16<sup>th</sup> IGM in March 2011.</li>   <li>[--&gt; Short-term]</li> <li>• Organise an evaluation workshop with SPG</li> </ul>

<ul style="list-style-type: none"> <li>• Devise a draft Strategic plan for Phase 3</li> <li>• Endorse a new strategic plan for 3rd Strategic Phase</li> </ul>	<p>work in progress. Results to date and updated timeline to be presented to the 14<sup>th</sup> IGM for approval.</p> <ul style="list-style-type: none"> <li>- Basic framework, timeline and work plan were devised and discussed at the 13<sup>th</sup> IGM/SPG. An update on progress to date will be provided to 14<sup>th</sup> IGM, including status and revised timeline for discussion and endorsement.</li> </ul>	<p>members, SC members and external experts and hold back to back with the 13<sup>th</sup> SC meeting in the Autumn of 2009.</p> <p>[--&gt; Short-term]</p> <ul style="list-style-type: none"> <li>• Finalise work plan to devise a draft Strategic plan for Phase 3 (April 2010 to March 2015).</li> <li>• Develop a draft Strategic plan for Phase 3</li> <li>• Endorse a new strategic plan for 3rd Strategic Phase</li> </ul>
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<p><b>POLICY AGENDA</b> <b>Short-term (Year 2008/09)</b></p> <ul style="list-style-type: none"> <li>• Identify Calendar of Policy Events appropriate to the APN and plan attendance, as needed (annually).</li>   <li>• Produce a booklet based on capacity building and research projects on climate change, such as in the CRPs targeting the policy audience that can be disseminated at science/political fora and on the APN website.</li>   <li>• Expand on science-policy question of how do we bridge science/policy? Engage members by discussing the issue at the 13<sup>th</sup> IGM and beyond.</li> </ul>	<ul style="list-style-type: none"> <li>- Done as shown in the APN Newsletter, the Annual Report 2007/2008 and periodical special notice mails. Some APN members found such information is very useful to plan their work. Further cooperation from members and GC communities is expected.</li>   <li>- A CAPaBLE Phase I brochure was published in 2007. It was distributed at international meetings. (also available for download at the APN website). One for general introduction purpose was prepared in various languages in 2007 as well. Annual Reports, Project Bulletins are also published. Some project leaders have also produced such briefing notes. One-page briefing was also published by the Secretariat on 2007/8 activities and disseminated. These briefs have also been translated into local languages by the APN members.</li>   <li>- Introduced into the 13<sup>th</sup> Country report templates and results amalgamated and presented at SBSTA 28 and other fora via PowerPoint.</li> </ul>	<p><b>POLICY AGENDA</b> <b>Short-term (Year 2009/10)</b></p> <ul style="list-style-type: none"> <li>• Identify Calendar of Policy Events appropriate to the APN and plan attendance, as needed (annually).</li>   <li>• Encourage PLs to publish science or policy briefs.</li>   <li>• Publish a briefing (one to two pages) of APN major activities/achievements for 2008/09</li>   <li>• Continue to encourage APN members to translate and publish 1-page briefings produced by the Secretariat in the vernacular language.</li>   <li>• Expand on science-policy question of how do we bridge science/policy? Engage members by continuing to address the issue at the 14<sup>th</sup> IGM and beyond.</li> </ul>
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<ul style="list-style-type: none"> <li>• Personal contact/visits to national Focal Points/SPG members.</li> <li>• Look at the ARCP process and the CAPaBLE process and determine, "Are we asking the right questions? How is your project effective? How will it feed into policy processes? What concrete initiatives do you have in place for policy-relevance?" Review these with the SPG. Ask project proponents to elaborate these points in their proposals.</li> <li>• Raise the issue of science-policy interactions. Ask national Focal Points and Scientific Planning Group members to provide examples of successful science-policy interactions in their countries? For example at meetings, etc. Collate information for discussion at 13<sup>th</sup> IGM and onward.</li> <li>• Identify regional and international governmental processes other than IPCC and UNFCCC processes where scientific results of APN projects can be considered and/or presented. In the call for proposals, etc. encourage contribution to these processes.</li> </ul>	<ul style="list-style-type: none"> <li>- Done on various occasions and needs to be continued by all APN members.</li> <li>- Done in the calls for proposals for 2008/2009. Review is to be done at SPG 14.</li> <li>- To be discussed at the IGM 14 using the new country report templates to the member countries. Some examples were identified in the previous country reports, such as governments commissioning research to help develop policies.</li> <li>- Work in Progress: Feedback from members welcomed for as the following <ul style="list-style-type: none"> <li>➤ Assessment Panels of the Montreal Protocol</li> <li>➤ MEA (Millennium Ecosystem Assessment) and CBD, CCD and Ramsar Convention</li> <li>➤ IPSUNR (Int'l P on the Sust Use of Nat Res) and Marrakech Process, MEA</li> </ul> </li> <li>- APN was showcased at SBSTA28 in</li> </ul>	<ul style="list-style-type: none"> <li>• Personal contact/visits to national Focal Points/SPG members.</li> <li>• Continue to look at the ARCP process and the CAPaBLE process and determine, "Are we asking the right questions? How is your project effective? How will it feed into policy processes? What concrete initiatives do you have in place for policy-relevance?" Review these with the SPG. Ask project proponents to elaborate these points in their proposals.</li> <li>• Continue to raise the issue of science-policy interactions. Ask national Focal Points and Scientific Planning Group members to provide examples of successful science-policy interactions in their countries? For example at meetings, etc. Collate information for discussion at 14<sup>th</sup> IGM and onward.</li> <li>• Continue to identify regional and international governmental processes other than IPCC and UNFCCC processes where scientific results of APN projects can be considered and/or presented. In the call for proposals, etc. encourage contribution to these processes.</li> <li>• Continue to participate in</li> </ul>
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<ul style="list-style-type: none"> <li>Participate in international/regional conferences to highlight APN's scientific activities to promote science/policy interactions and to promote APN. The UNFCCC SBSTA 28 may be a good occasion.</li> </ul>	<p>2 events: Joint APN/IAI side event and the SBSTA/GC community Informal Dialogue that takes place annually.</p>	<p>international/regional conferences to highlight APN's scientific activities to promote science/policy interactions and to promote APN. The UNFCCC SBSTA 30 and COP15 may be a good occasion.</p>
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<p><b>Medium and Long-term (Year 2008/09 and beyond)</b></p>		<p><b>Medium and Long-term (Year 2009/10 and beyond)</b></p>
<ul style="list-style-type: none"> <li>• Investigate the possibility of encouraging (by funding and/or supporting) seminars (local, national initially) where GC scientific results are presented to government officials.</li> <li>• Highlight publications from APN-funded projects that might feed into regional and international governmental processes such as the IPCC (5thAR) and UNFCCC processes, and others processes identified.</li>   <li>• Identify calendar of policy-related activities and events.</li>   <li>• Perform an evaluation of Phase 2</li> <li>• Devise a draft Strategic plan for Phase 3</li> <li>• Endorse a new strategic plan for 3rd Strategic Phase.</li> </ul>	<ul style="list-style-type: none"> <li>- Ready to support participation in a few events of international or regional importance.</li>   <li>- Is being followed up (work in progress) for the processes identified by communicating regularly with project leaders?</li>   <li>- Done as shown in the APN Newsletter, the Annual Report 2007/2008 and periodical special notice mails. Some APN members found such information is very useful to plan their work. Further cooperation from members and GC communities is expected.</li>   <li>- Basic framework, timeline and work plan are to be discussed at the 14<sup>th</sup> IGM/SPG.</li>   <li>- Basic framework and 14<sup>th</sup> IGM/SPG.</li> </ul>	<ul style="list-style-type: none"> <li>• Further investigate the possibility of encouraging (by funding and/or supporting) seminars (local, national initially) where GC scientific results are presented to government officials.</li> <li>• Be more proactive in highlighting publications from APN-funded projects that might feed into regional and international governmental processes such as the IPCC (5thAR) and UNFCCC processes, and others processes identified.</li> </ul> <p>[--&gt; Short term]</p> <ul style="list-style-type: none"> <li>• Address this issue in the second phase evaluation of APN funded activities</li> </ul> <ul style="list-style-type: none"> <li>• Continue to identify calendar of policy-related activities and events.</li> </ul> <p>[--&gt; Short-term]</p> <p>[--&gt; Short-term]</p> <p>[--&gt; Short-term]</p>

<b>INSTITUTIONAL AGENDA Short-term (Year 2008/09)</b>		<b>INSTITUTIONAL AGENDA Short-term (Year 2009/10)</b>
<ul style="list-style-type: none"> <li>• Pursue new country membership of interested countries.</li> <li>• Devise and implement a Communications Plan for the APN Members and the wider GC community.</li> <li>• Review the Second Strategic Phase through the review of annual Operating Plan.</li> <li>• Address process for active member-country participation in hosting APN meetings.</li> <li>• Identify and communicate to IGM and SPG members' information on global change events relevant to the APN by compiling information received from international programmes and other sources.</li> <li>• Identify, up to 4 years in advance, main</li> </ul>	<ul style="list-style-type: none"> <li>- Singapore and Bhutan are under contact.</li> <li>- Communications Strategy (covering past and ongoing efforts as well as future plans) was devised and further developed at the 10<sup>th</sup> SC Meeting. This will be presented at the 14<sup>th</sup> IGM for approval.</li> <li>- This review of annual Operating Plan constitutes such a review Preparation for the 2SP review started in the 10<sup>th</sup> SC in Oct 2008.</li> <li>- Successful for the 10<sup>th</sup> SC (Philippines), 14<sup>th</sup> IGM/SPG (Malaysia). Continued participation is expected.</li> <li>- Updated information of GC events relevant to APN is available on the APN website (Global Change Announcements and Calendar of Events) for the members to view. Selected events are also included in the Newsletter Calendar, which is also being disseminated to members on a quarterly basis. Further cooperation from members and GC communities is expected.</li> <li>- Being done but heavily depends on</li> </ul>	<ul style="list-style-type: none"> <li>• Continue to pursue new country membership of interested countries.</li> <li>• Implement the APN Communications Strategy</li> <li>• Initiate discussion on collaborating/association with countries outside the APN region.</li> <li>• Review the Second Strategic Phase according to the work plan to be developed by the IGM/SPG14.</li> <li>• Continue to address process for active member-country participation in hosting APN meetings.</li> <li>• Identify and communicate to IGM and SPG members' information on global change events relevant to the APN by compiling information received from international programmes and other sources.</li> <li>• Identify, up to 4 years in advance, main</li> </ul>

<p>meetings being scheduled by the international GC programmes such as the global change programmes, WCRP, IGBP, ESSP, IHDP, DIVERSITAS. Identify an exhaustive list and a calendar of activities (for at least 2 years in advance).</p> <ul style="list-style-type: none"> <li>• Consider inviting scientific experts to the APN meetings on issues expected to be emphasised at their meetings.</li> <li>• Have APN-initiated and APN-funded projects proactively been seeking collaboration with institutes and organisations that provide co-sponsorship and in-kind contributions.</li> <li>• Seek active involvement of host institutions in order to provide greater sustainability of projects.</li> <li>• Decide on means of communications and modality of discussions.</li> <li>• Address membership inactivity.</li> </ul>	<p>cooperation of members and GC communities. Such cooperation is very much expected.</p> <ul style="list-style-type: none"> <li>- Being realised in the discussion on GEOSS and AWCI (12<sup>th</sup> IGM); ESSP community (13<sup>th</sup> IGM) and with ICSU-ROAP, ESSP and SEARRIN at the 14th IGM.</li> <li>- Done in the calls for proposals after 2008/2009. Practice at the proposals stage; however, after a PL has received APN funding, difficult to gauge whether pro-activeness in this area is continued. Indicator at the review stage is the sustainability of the project beyond APN funding.</li> <li>- Continues to be followed up by asking project proponents by explicitly including such in the conditions of funding.</li> <li>- (See the above bullets on “devising communications plan”)</li> <li>- Raised at the Bangkok IGM and members are reminded of their roles, as needed. Further cooperation by the members is expected utilising the Guidance document for the roles of nFPs,</li> </ul>	<p>meetings being scheduled by the international GC programmes such as the global change programmes, WCRP, IGBP, ESSP, IHDP, DIVERSITAS. Identify an exhaustive list and a calendar of activities (for at least 2 years in advance).</p> <ul style="list-style-type: none"> <li>• Consider inviting scientific experts to the APN meetings on issues expected to be emphasised at their meetings.</li> <li>• Have APN-initiated and APN-funded projects proactively seek collaboration with institutes and organisations that provide co-sponsorship and in-kind contributions.</li> <li>• Continue to seek active involvement of host institutions in order to provide greater sustainability of projects.</li> <li>• Address membership inactivity.</li> </ul>
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<ul style="list-style-type: none"> <li>• Work with those presently funding APN Programmes and activities to assure long-term stability of such funding.</li> <li>• Based on the review of discussions held in the past, formulate financial working plan with concrete and targeted action points (divided in two separate groups, one with actions to raise additional funds, and a second one with actions to reduce expenses).</li> <li>• Report in-kind contributions (in figures) in the financial reporting at IGM/SPG.</li> <li>• Encourage members from developing countries to consider sharing costs of travelling to IGM.</li> <li>• Conduct sub-regional liaison trials, starting (but not limited to) the one in the south-East Asian sub-region.</li> </ul>	<p>SPG members established at the IGM12.</p> <ul style="list-style-type: none"> <li>- Being done</li> <li>- Secretariat worked hard with contributors to expand the contributions along with the current move such as more emphasis on adaptation to climate change.</li> <li>- Being prepared for the 14<sup>th</sup> IGM/SPG from the Secretariat based in Hyogo.</li> <li>- Done from the invitation for the 13th IGM/SPG Meeting and succeeded in 14<sup>th</sup> IGM/SPG.</li> <li>- The South-East Asian Sub-regional Committee is in progress. The South Asian sub-regional meeting is to be organised in KL.</li> </ul>	<ul style="list-style-type: none"> <li>• Continue to work with those presently funding APN Programmes and activities to assure long-term stability of such funding.</li> <li>• Based on the review of discussions held in the past, formulate financial working plan with concrete and targeted action points (divided in two separate groups, one with actions to raise additional funds, and a second one with actions to reduce expenses).</li> <li>• Report in-kind contributions (in figures) in the financial reporting at IGM/SPG.</li> <li>• Continue to encourage members from developing countries to consider sharing costs of travelling to IGM.</li> <li>• Encourage sub-regional liaison trials in the Southeast and South Asian sub-regions.</li> </ul>
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<p><b>Medium and Long-term (Year 2008/09 and beyond)</b></p> <ul style="list-style-type: none"> <li>• Address the legal status of APN.</li>   <li>• Establish a Resources Development Plan and consider the possibility of looking to member countries to invest in the APN, with in-kind or financial contributions.</li>   <li>• Continue to mobilise funds for scientific and CB activities from sources within and outside of the APN region.</li>   <li>• Co-organise activities with other agencies, for the purpose of cost efficiency.</li>   <li>• Perform an evaluation of Phase 2.</li>   <li>• Devise a draft Strategic plan for Phase 3 and endorse a new strategic plan for 3<sup>rd</sup> Strategic Phase.</li> </ul>	<ul style="list-style-type: none"> <li>- To be followed up in the IGM as needed</li>   <li>- Resource development is to be discussed at the IGM 14. Some APN member countries fully shouldered or co-shared in the printing expenses and dissemination of the local brochures in 2008/2009. Contacted private sector in Japan. To be followed up and be substantiated with further discussion at SC Meeting/IGM</li>   <li>- Work in progress. Started discussions with IAI and have been contacted by organisation based in the UK (for collaboration). Further discussion is needed to overcome obstacles, such as distance between the two regions.</li>   <li>- Work in progress</li>   <li>- Basic framework and timeline are to be discussed at the 14<sup>th</sup> IGM/SPG.</li> </ul>	<p><b>Medium and Long-term (Year 2009/10 and beyond)</b></p> <ul style="list-style-type: none"> <li>• Address the legal status of APN.</li>   <li>• Establish a Resources Development Plan. Consider the possibility of looking to member countries to invest in the APN, with in-kind or financial contributions.</li>   <li>• Continue to mobilise funds for scientific and CB activities from sources within and outside of the APN region.</li>   <li>• Co-organise activities with other agencies, for the purpose of cost efficiency.</li> </ul> <p>[--&gt; Short-term]</p> <ul style="list-style-type: none"> <li>• Develop a draft Strategic plan for Phase 3 and endorse a new strategic plan for 3<sup>rd</sup> Strategic Phase</li> </ul>
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## Country Reports

### Introduction

The 'Country Reports' item has been a very constructive agenda of the Inter-Governmental Meeting (IGM)/Scientific Planning Group (SPG) Meeting in the last three years, facilitating fruitful discussion among the APN members on global change, and both APN-relevant and national issues. The reports submitted by member countries have produced interesting results that are seen as very useful in planning for APN's future strategies, particularly in the evaluation of the Second Strategic Phase and in demonstrating the challenges that are being faced by member countries in the field of global change.

Considering the information gathered from previous country reports as well as the suggestions provided by the members during the discussion on 'Country Reports' at the 13<sup>th</sup> IGM/SPG Meeting, the appended country report template (see [IGM-SPG/14/08-App.1](#)) was developed for completion by the national Focal Points, with input from the Scientific Planning Group Members, to facilitate reporting and fruitful discussion at the 14<sup>th</sup> IGM/SPG Meeting. This template was also discussed further at the 10<sup>th</sup> Steering Committee Meeting in Manila last October and was sent to all national Focal Points (nFPs) for feedback before it was finalised.

At the time of writing this paper, the Secretariat has received the Country Reports from 20 out of 21 member countries of the APN and is analysing the information for dissemination to members at the 14<sup>th</sup> IGM/SPG.

### Procedure during the present "country reports" item

1. Based on the submitted reports, the Secretariat will briefly present the main outcomes of the country report analysis, which will be distributed at the 14<sup>th</sup> IGM/SPG.
2. A 'tour of the table' will follow, where each national Focal Point introduces themselves and gives a very brief (one-two minutes) update on developments/emerging issues of priority in their respective countries
3. The floor will be opened for discussion. The discussion may be continued under *Item 10: Parallel Session*, where APN Members will be grouped into their respective sub-regions.

**Country Report Template for the 14th IGM/SPG Meeting**

Please address the questions below for discussion at the 14<sup>th</sup> IGM/SPG Meeting in Malaysia and as your contribution to APN's future planning.

**Science Agenda**

- 1) Are there emerging research priorities, scientific trends or issues in your country with regard to global environmental change/climate change? What are they? Please list in order of priority.

<i>Answer:</i>	

Are the above-listed emerging research priorities, scientific trends or issues in your country resulted from or are being influenced by scientific assessment reports (e.g. IPCC assessment reports) and international conventions/treaties (e.g. UNFCCC, CBD, etc.)?

\_\_\_\_\_ Yes                      \_\_\_\_\_ No

In what way or how did they result from/are they being influenced by the assessment reports and international conventions/treaties)? *(You could also explain to what extent they are being influenced by the reports and conventions.)*

<i>Answer:</i>
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**Policy Agenda**

- 2) Are there any significant changes that have occurred over the past one or two years in your national programs/policies for global change (including climate change)? What are they?

<i>Answer:</i>
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- 3) Are there people/group/organisations in your country that are key contacts in climate-related decision and policy-making processes that you would like to be included in our APN electronic mailing list (EML) and publication (in hard copies) distribution list? Please provide a comprehensive list including complete mailing address, email address, and website (if applicable).

*Answer:*

- 4) Are there climate change adaptation strategies being implemented in your country? What are these strategies?

*Answer:*

\_\_\_\_\_ Yes

\_\_\_\_\_ No

- 5) Could you cite one or two best practice(s) of science-policy linkage in your country?

*Answer:*

**Institutional Agenda**

- 6) Are there other issues in your country that you perceive important in tackling APN-related concerns? What are they? Please also write down, if you can identify any, important issues in the sub-region that are APN-related.



*Answer:*

*Issues in your country*

*Issues in the sub-region*

**Thank you!**

## 14th IGM Country Report Pre-Analysis

### Introduction

Based on the results of the three previous country reports, climate appears as the foremost concern among the APN member countries. Climate change impacts, vulnerability and adaptation assessments, as well as climate modelling and prediction are the areas under which research is most commonly conducted.

Results of the previous country reports also show that research and institutional capacity as well as limited financial resources are the main challenges in implementing research in APN member countries. Mainstreaming research results into policy processes is seen as a challenge or difficult area by most APN member countries. However, significant developments are taking place in many APN member countries in terms of increased recognition shown by the governments.

This year is the 4<sup>th</sup> consecutive year of country reporting and members were asked to respond to various questions related to the 3 agendas of the APN (science, policy and institutional) as outlined in the Second Strategic Plan (2005-2010). The responses provided were collated and are summarised in the present report.

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### A. QUESTIONS POSED TO APN MEMBERS

#### SCIENCE AGENDA

- 1) Are there emerging research priorities, scientific trends or issues in your country with regard to global environmental change/climate change? What are they? Please list in order of priority.
- 2) Are the above-listed emerging research priorities, scientific trends or issues in your country resulted from or are being influenced by scientific assessment reports (e.g. IPCC assessment reports) and international conventions/treaties (e.g. UNFCCC, CBD, etc.)?
- 3) In what way or how did they result from/are they being influenced by the assessment reports and international conventions/treaties)? *(You could also explain to what extent they are being influenced by the reports and conventions.)*

#### POLICY AGENDA

- 4) Are there any significant changes that have occurred over the past one or two years in your national programs/policies for global change (including climate change)? What are they?
- 5) Are there people/group/organisations in your country that are key contacts in climate-related decision and policy-making processes that you would like to be included in our APN electronic mailing list (EML) and publication (in hard copies) distribution list? Please provide a comprehensive list including complete mailing address, email address, and website (if applicable).
- 6) Are there climate change adaptation strategies being implemented in your country? What are these strategies?
- 7) Are these strategies being mainstreamed/integrated or linked in the sustainable development plan or national policy/programme of your country?
- 8) Could you cite one or two best practice(s) of science-policy linkage in your country?

## INSTITUTIONAL AGENDA

9) Are there other issues in your country that you perceive important in tackling APN-related concerns? What are they? Please also write down, if you can identify any, important issues in the sub-region that are APN-related.

## B. SUBMISSIONS

Twenty (20) out of 21 member countries responded: 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 and USA.

## C. METHODOLOGY

- Qualitative Synthesis
- Highlights in the reports noted
- Enumeration

## D. SYNTHESIS/PRE-ANALYSIS

### SCIENCE AGENDA

#### Emerging research priorities, scientific trends or issues in the APN member country with regard to global environmental change/climate change

Most countries continue to identify climate vulnerability, impacts, and adaptation and/or mitigation assessments as their priority concerns. GHG emissions, inventories, and the capacity to conduct activities in these areas are also considered important, particularly in the least developed nations. Some countries are placing growing emphasis on researching and/or promoting clean, alternative/renewable energy, and using energy more efficiently. Climate change projections, uncertainties and model downscaling are important as is access to and sharing of data across national borders for conducting climate research, which is currently an obstacle that many countries are facing.

The main "hot" issues highlighted by APN member countries are summarised:

- Climate change vulnerabilities and impacts, including extreme weather events, in various sectors (livelihoods, food and water resources, fragile ecosystems including mountains and coastal zones)
- Climate change vulnerability assessments and adaptation options
- Adaptation and mitigation *needs* assessments;
- Climate modelling scenarios: projections, uncertainties and downscaling
- Forestry, land-use/cover change, land degradation/preservation, loss of biodiversity and marine ecosystem changes
- Global change-related disasters and early warning systems
- National GHG emissions, inventories and assessments; plan for sustainable economic growth with proper mitigation of GHG emissions
- Promoting low carbon societies; energy efficiency; conducting renewable energy assessments
- Socioeconomics: including waste management, energy efficiency, air pollution and public health, urbanisation, economic management and financing, etc.
- Rescue, archiving/digitising of meteorological data; sharing of and access to climate and related data

#### Emerging research priorities, scientific trends or issues in the APN member country that resulted from or are being influenced by scientific assessment reports (e.g. IPCC assessment reports) and international conventions/treaties (e.g. UNFCCC, CBD, etc.)

Most countries responded positively to this question. The findings of the IPCC reports, particularly the IPCC AR4, are used by the majority of countries in determining climate-related activities undertaken by the member countries. Many member countries are also actively involved in the IPCC process. The UNFCCC is considered an important body for

all countries particularly for financial and technological needs assessments, GHG inventories and CDM. Many countries are also actively involved in UNFCCC processes.

All countries reported that national assessments are important in determining priorities. In this context, for example, the US Climate Change Science Program (CCSP) recently completed all of its 21 Synthesis and Assessment Products (SAP's) as described in its 2003 Climate Change Science Program Strategic Plan. The products can be viewed at the following site: <http://www.gcric.org/library/sap-final-reports.htm>.

Besides defining research priorities to target important issues, the various conventions and assessment reports play a significant role in raising general awareness, resulting in enhanced appreciation of related issues and concerns. In addition to international assessment reports and conventions, national studies and assessments bring out detailed issues and requirements in various key areas of concerns. On the other hand, one country reported that, occasionally, local assessment reports result in the delay in the implementation of international conventions/treaties/satellite agreements.

While national, regional and international assessments and conventions/treaties have a major role in determining national priorities one country reported that actual events (weather events, disasters, etc.) also play a significant role. Advances in scientific capabilities and newly identified public needs were also considered as playing a role in identifying and prioritising issues.

Some examples of the influence of various national and international reports/assessments/conventions are highlighted below:

- IPCC for climate scenarios: regional climate model predictions/uncertainties; rainfall projections, extreme weather projections; national strategies for adaptation and/or mitigation; increased public awareness (for example, low carbon societies); national and regional-level research on glacier retreating impacts on water/agriculture security;
- UNFCCC for financial and technological needs assessments, national adaptation strategies and GHG inventories; CDM
- UNCCD (United Nations Convention to Combat Desertification) on the influence of climate change on herders' incomes, negative human impacts on land degradation/desertification, particularly in rural areas of affected countries
- National commissioned reports and assessments, for example, vulnerability and impact assessments, renewable energy assessments
- Advances in scientific capabilities, public needs, programme renewal and evolution
- Local/federal governments and other agencies
- National climate change research communities
- To an extent other international bodies such as the APN and WCRP, as well as international conferences and symposia

## **POLICY AGENDA**

*Significant changes that have occurred over the past one or two years in the national programs/policies for global change (including climate change) in APN member countries*

All member country governments are active in climate change-related initiatives and a significant number of changes have taken place at the national level in most countries in the past 2 years. All countries are either planning or implementing a number of action plans to combat climate change and/or have set up, or are setting up, a body within or linked to the government to tackle climate change issues.

Government funding is on the increase in some countries for climate change issues, and capacity building of government officials on the science and impacts of climate change is also being undertaken. Some countries noted that their governments are currently in periods of transition where significant changes are likely to take place and have noted,

too, that the current global financial crisis may present further challenges for tackling climate change in years ahead.

Some of the changes that have taken or are taking place are highlighted below:

- Formation of climate change units/councils/task forces/high-level ministerial committees within governments.
  - These include scientists from institutions and universities
  - Tasks on climate change issues and related research, development, training and planning activities at national and regional levels
- Adoption/implementation of national strategies and action plans for climate change issues including adaptation and mitigation, renewable/alternative energy sources; reducing energy consumption and promoting low carbon societies
- Promotion of green environments and setting targets for local governments in good environmental governance; identification by local governments of best practices in adaptation and mitigation
- Cooperation/collaboration in climate change research at national, regional and international levels for climate change; working with international bodies (example WWF, UNDP in Nepal) in realising national actions plans for climate change and adaptation
- Consideration or implementation of an Emissions Trading Scheme (EMS)
- Increased funding for climate change research
- Capacity building through increased awareness and education of government officials, national planners and policy-makers on climate change and its impacts.

**Main sectors being targeted:**

Agriculture, water (floods and drought), forests, transport sectors, energy (energy efficiency and alternative/renewable energies), coastal zones, mangroves, maritime resources

*People/group/organisations in the APN member country that are key contacts in climate-related decision and policy-making processes (For inclusion in the APN electronic mailing list and publication distribution list).*

(A separate list is attached. The key contacts will be included in the APN electronic mailing list and publication distribution list.)

*Climate change adaptation strategies being implemented in the APN member countries*

Countries are either developing adaptation strategies (and mitigation strategies) or implementing them in many related fields and all countries see the adoption of adaptation strategies as important to counter the impacts of climate change. Nevertheless, there are many limiting factors and developing countries in particular have yet to conduct much-needed vulnerability and impact assessments in many areas/sectors (see vulnerable sectors below) in order to plan appropriate adaptive strategies and streamline these into national policy and plans.

In some countries there is no current systematic effort to implement adaptation strategies (even though in some cases it is evident that adaptation is taking place) in various sectors which are likely to be affected by climate change. Interestingly, one country highlighted that it is promoting better management and conservation of natural resources in various sectors and promoting energy security, with and without linking them directly to climate pressure and greenhouse gas emission reduction.

It is clear that many countries lack the human and institutional capacity to plan and adopt effective adaptation strategies. The integration of various elements such as climate risk assessments, sectoral adaptation plans and international cooperation is seen as a systematic, coherent and sound basis for developing appropriate adaptation strategies.

The U.S. Climate Change Science Program has released a synthesis and assessment product related to adaptation: Final Report, Synthesis and Assessment Product 4.4 Preliminary review of adaptation options for climate-sensitive ecosystems and resources which can be viewed at the site: <http://www.climatescience.gov/Library/sap/sap4-6/final-report/default.htm>.

#### **Adaptation/Mitigation Strategies:**

- All countries are investigating, planning or implementing various viable adaptation strategies in, among others, disaster management, water resources management, coastal zone management (including stringent guidelines on infrastructure development); geohazard mapping
- Human and institutional capacity development, particularly in developing countries; awareness programmes for communities on impacts, vulnerability and adaptation
- Forming multi-disciplinary teams that involve public/private sectors, planners and decision-makers to develop adaptation strategies; fostering national, regional and international cooperation
- Passing national acts and guidelines for appropriate building of infrastructure in coastal areas
- Restoring and conserving biodiversity
- Implementation of strategies to lower/limit GHG emissions
- Developing and using alternative energies (rather than fossil fuel use) and providing incentives to do so; passing related acts; promoting energy efficiency, for example limiting temperature range for air conditioning; taking advantage of new technology for promoting energy efficiency; cutting investment to low energy efficiency sectors
- Conducting research to fund climate-resistant crops and animals (resilient to floods or droughts, etc)

#### **Vulnerable Sectors:**

Vulnerable sectors identified where adaptation strategies are being considered, planned, or implemented: Agriculture, fisheries, pastures & animal husbandry, forests, water resources: supply & consumption, health and social welfare; coastal areas.

#### *Some experiences/best practices of science-policy linkages in the APN member countries*

Specific national-level best practices adopted by the APN member countries were identified and can be categorised into six main areas:

- Informed decision-making from science-based reports/assessments for developing climate change strategies. These have been from international processes such as the MDGs, UNFCCC and the IPCC processes, as well as nationally commissioned scientific reports.
- Establishing global/climate change research centres for informed decision-making, and passing and implementing various acts and policies at the national level.
- Establishing, within government ministries or departments, committees or working groups of scientists and policy-makers.
- Engaging the public/science/policy communities in dialogue for sharing information and raising awareness
- Implementing national-level projects on, among others, renewable energy sources, energy production from waste, and biofuels.
- Promoting various initiatives at the national level, including low carbon society, use of biofuel, energy efficiency, and green technologies.

The U.S.A. identified online resources that highlight best practices in science-policy interfacing and engagement of the wider community for informed decision-making. These include:

- Public Participation in Environmental Assessment and Decision Making [http://www.nap.edu/catalog.php?record\\_id=12434](http://www.nap.edu/catalog.php?record_id=12434)

- Final Report of Synthesis and Assessment Product: 5.2 Best Practice Approaches for Characterizing, Communicating, and Incorporating Scientific Uncertainty in Decision-making <http://www.climate-science.gov/Library/sap/sap5-2/final-report/default.htm>

## **INSTITUTIONAL AGENDA**

*Issues at the national level that APN member countries perceive important in tackling (APN-related) concerns*

### **Main issues that were raised:**

- Impacts of climate change
  - increased temperature and increased rainfall
  - increased flood frequency and intensity leading to landslide
  - glacial lake outburst floods (accelerated retreat of glaciers which lead to enlargement of several glacial lakes causing natural hazards in mountainous areas)
  - variability in crop yields
  - decreased wet forest area
  - increased moist forest area
  - high rate of deforestation
  - loss of biodiversity
  - incidence of vector-borne disease
  - sea level rise
  - land degradation
- Conservation of ecosystem resources
- Management and use of resources
  - Effect of land management on hydrology and greenhouse gas emission control
  - Energy and economic management
- Financing instruments
- Urbanisation and emergence of mega-cities

### **Vulnerable sectors:**

agriculture, forestry, health, transport, coastal zone

### **Way forward:**

One country noted that global environmental change/climate change is a long-range issue; thus individual (or one country) short-range project cannot make significant influence. This is where APN becomes highly important, supporting regional cooperation in global change research on issues relevant to the region. It was suggested that members might wish to select two to three core institutions whose work is aligned with the goals of the APN and then establish a network of collaborating institutions.

Another aspect of collaboration was stressed in one of the responses, raising the need to create strong ties among scientists in the Pacific Island Countries (PICs) with those in developed countries for more effective research on climate change. For example, scientists from developed countries can assist PIC scientists with the processes and requirements in obtaining information from the scientific literature. This will address the general lack of means or inability to undertake scientific research in the PICs, which is evident by way of the little information included in the IPCC AR4 concerning small islands in the Pacific.

Related to the above, it was noted that various types of global environmental research is being conducted in Japan under the global environment research fund and it is hoped that sharing the information from these activities to the world will enhance scientific collaboration among scientists of APN member countries.

Some **general suggestions** from the members on way forward are provided below:

- Raising climate change awareness among rural people, especially in coastal areas
- Increasing research and capacity building on adaptation and vulnerabilities
- Strengthening research inputs in policy formulation
- Empowerment in the implementation of global environmental change action programmes by enhancing local government capacity, raising community awareness and participation in these programmes
- Enhancing scientific capacity by using appropriate and user-friendly tools to improve decision-making in priority areas and for evaluation processes related to climate change and other global environmental issues at national and local levels as well
- Increasing the number of scientists in research institutions to undertake global change research through capacity building
- Training of young scientists in the area of natural resource management

A few **specific suggestions** on way forward are also gathered from the responses:

- Capacity enhancement for coastal zone management in different climate change scenarios
- Technology transfer to facilitate sustainable development (needs should be identified and assessed first)
- Assessment of impact, vulnerability and adaptation on rice production and water balance
- Capacity building on drought monitoring and studying in Monsoon Asia under the framework of the Asian Water Cycle Initiative (AWCI)
- Developing adaptive capacity for climate change in Asia's coastal mega-cities
- Global Earth Observation System of Systems convergence and data integration
- Capacity building on identifying forest carbon dynamics and sustainability issues

*Important issues in the sub-region that are APN-related as identified by the APN member countries (suggestions on way forward are incorporated in some of the responses).*

#### **Oceania and the Pacific** (Australia, Fiji, **New Zealand, USA**)

- Water resource management – this issue will become increasingly important for small island Pacific States; not only the adequate supply of freshwater from shifting rainfall patterns but also storage being threatened through salt water intrusion driven by the increased frequency of storm surges and rising sea levels
- Data sharing – there is a continued difficulty in data sharing and data-related problems for the USA in dealing with the Asia-Pacific region. It would be worthwhile for the APN, with representatives from the region, to review and possibly bolster its data policy in support of broader, improved scientific cooperation

#### **South Asia** (**Bangladesh**, India, **Nepal, Pakistan, Sri Lanka**)

- Ensuring flow of riparian rivers (regional cooperation among Bangladesh, Nepal, Bhutan, India and China)
- Control and land-based pollution, over exploitation and illegal exploitation of marine resources in the Bay of Bengal (sub-regional cooperation among Bangladesh, Myanmar and India) or Indian Ocean (regional cooperation among Bangladesh, Myanmar, India and Sri Lanka)
- Glacial Lake Outburst Floods (GLOFs)
- Lack of awareness, scarcity of resources
- Lack of data on the impacts climate change and integration of development planning with climate change strategies
- Food and water security
- Climate change impacts on fragile ecosystems (mountainous region, coastal areas, and rangelands)

#### **Southeast Asia** (**Cambodia**, Indonesia, **Lao PDR, Malaysia, Philippines, Thailand, Viet Nam**)

- Haze boundary from burning of fossil fuel (coal, oil, natural gas) from industry and transport sectors



- Technology transfer for clean technology
- Water shortages
- Poor networking among institutions in the sub-region to undertake regional research activities of common interest to the region on global change
- Exchange of data and information on global change research
- Transboundary issues
- Atmospheric Brown Clouds (ABCs), their radiative forcing and impacts on agriculture, human health, food security, etc

**Temperate East Asia (*China, Japan, Mongolia, Republic of Korea, Russian Federation*)**

- Strengthening regional collaboration by selecting two to three core institutions per member country whose thrusts are aligned with the goals of the APN and establishing a network
- Policies in data and information access/sharing to enhance the scientific collaboration among the researchers of APN member countries
- Improving the opportunity to cooperate with other scientists from APN member countries in the area of research
- Relations between and among countries on addressing transportation problems that are related to environment (safety of air traffic, effects of oil and gas transportation on environment)
- Responsibilities of countries on ocean pollutions and Joint efforts in monitoring oceans
- Inter-countries policies against diseases propagations
- Joint efforts in earthquake and tsunami prediction/information dissemination
- Exchange of scientists in environmental issues

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Chairman, Presidential Task Force on Climate Change

Chairman, Committee on Environment and Natural Resources, House of Representatives, Congress of the Philippines

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Green Movement of Sri Lanka, 9, 1st Lane, Wanatha Road, Gangodawila, Nugegoda, Emails: [office@greensl.net](mailto:office@greensl.net)

Justice for Nature, 146/34, Havelock Road, Colombo 5, Email: [efl@slt.net.lk](mailto:efl@slt.net.lk), [eflprojects@slt.net.lk](mailto:eflprojects@slt.net.lk)

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Thailand Research Fund (TRF)



Office of the National Economic and Social Development Board (NESDB)

National Science and Technology Development Agency (NSTDA)

Geo-Informatics and Space Technology Development Agency (GISTDA)

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## Sub-Regional Cooperation (SRC)

The aim of this paper is to provide a brief background of Sub-Regional Cooperation (SRC), a summary of the activities conducted to date, and present some issues for consideration at the Parallel Session.

### Background

It is outlined in the Second Strategic Plan (2SP) under the strategies for implementation and evaluation (page 14 of the 2SP) that the *APN will conduct a review of the role of Liaison Officers and make changes to better meet APN objectives*; thus the APN 11<sup>th</sup> IGM/SPG Meeting endorsed the trial of a new model based on an existing mechanism, for example the 'ASEAN model'<sup>1</sup> in order to further enhance the flow of information among members of the APN at the sub-regional level.

### Major Activities on SRC to date

#### AUGUST 2006. Sub-Regional Committee (SRCom) Meeting. Jakarta, Indonesia

The Southeast Asia (SEA) SRCom was formed, initiated by the national Focal Point for Indonesia, Ms. Liana Bratasida.

#### MARCH 2007. 12<sup>th</sup> IGM/SPG Meeting. Honolulu, USA

An item paper outlining the membership, roles, organisation and arrangement of the SEA-SRCom was discussed and revised. Another paper providing some procedures that should be considered when drafting a Terms of Reference (TOR) for the SR Committees was presented and revised. The IGM allocated a budget for the trial model and Indonesia was requested to host the first SEA-SRCom Meeting.

#### AUGUST 2007. 1<sup>st</sup> SEA-SRCom Meeting. Jakarta, Indonesia

The SEA-SRCom laid out its medium to long-term work plan and agreed on the organisational structure, membership, functions and modalities. Scientific priorities of the SEA-SRCom were identified and a mechanism for scientists and policy-makers dialogue was introduced. Thailand was asked to host the next SEA SRCom Meeting.

#### MARCH 2008. 2<sup>nd</sup> SEA-SRCom Meeting. Kobe, Japan

SEA-SRCom expressed interest in developing a research proposal for the APN's next Call. It was raised that in order to enhance the ability of each member country to develop a strong regional proposal to the APN, communication among the scientists in SEA sub-region should be enhanced first.

#### MARCH 2008. 13<sup>th</sup> IGM/SPG Meeting. Kobe, Japan

Many issues were raised, particularly on proposal submission, and the IGM agreed that before any decision could be reached on functionality within the APN, the discussion was to be pursued further in a careful, thorough and thoughtful manner. The SC was asked to consider the issues in the inter-sessional period for further consideration. The Secretariat is to explore institutional and financial implications on how to tackle the issue under the supervision of the SC and in coordination with the SEA-SRCom.

#### OCTOBER 2008. 10<sup>th</sup> SC Meeting. Manila, Philippines

The SC stressed that the sub-regional committees are to focus on strengthening the role of nFPs and their relation to the science community (the role intended for the sub-regional committees as opposed to writing proposals for submission to the APN).

#### FEBRUARY 2009. APN Secretariat Brief Informal Meeting with the host of the next SEA-SRCom Meeting. Bangkok, Thailand

Two main issues that were discussed was the chairperson of the SEA-SRC and agenda items for the SEA group at the SC parallel sessions. The summary of this Meeting is appended to this paper for information and to seek further suggestions on the way forward.

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<sup>1</sup> *A model whereby the Association of Southeast Asian Nations of 10 countries located in SEA was established to accelerate the economic growth, social progress and cultural development among its members; to protect peace and stability of the region; and to provide opportunities for member countries to discuss differences peacefully (ASEAN, Secretariat, 2008).*

### **Issues for consideration**

#### TOR of the SEA-SRCom and functions of the sub-regional committees

The TOR for the SEA-SRCom has not yet been finalised or endorsed by the IGM. However, there is an existing "Guideline" that was approved at the 11<sup>th</sup> IGM/SPG Meeting to guide the SEA-SRCom in portraying an effective role to enhance communications among APN Members at the sub-regional level. According to this Guideline, the SEA-SRCom will:

- i. Maintain regular contact among countries in the sub-region
- ii. Maintain regular contact among SPG Members in the sub-region
- iii. Maintain regular contact between APN project leaders and nFPs in the sub-region
- iv. Attend APN-project workshops, as necessary
- v. Represent and promote the APN at various fora in the sub-region
- vi. Provide summary briefings to each respective Ministry about the APN and its work
- vii. Report to the IGM at the APN Annual Meeting
- viii. Submit quarterly reports to the Secretariat for submission in the APN Newsletter and website
- ix. Plan and implement what is deemed appropriate in order to enhance sub-regional activities to develop and promote the APN

The SEA-SRCom members may wish to review the above at the Parallel Session (Item 10) to see whether this guideline has been useful in the operation of the SEA-SRCom and revise this guideline as appropriate to make it applicable for the SEA group. The outcomes of the discussion should be presented under Item 11: SRC Report/Conclusion and SEA-SRCom TOR is to be finalised for IGM endorsement. The document will be provided to all sub-regional groups at the Parallel Session for further discussion.

#### Looking at completed projects

As no mechanism for proposal submission is to be considered independently outside the current ARCP and CAPaBLE Calls for Proposals, sub-regional groups may wish to focus in other activities such as looking at completed projects to assess whether the results are ready for dissemination to policy-makers or how these can be effectively used in the region.

#### Evaluation of the trial model

Any form of evaluation is always vital in determining the merit, worth and significance of something. In this regard, it was stressed at the 13<sup>th</sup> IGM/SPG Meeting, that the SC should consider an evaluation of the trial model before exploring the possibility of increased funding allocation to SRC activities. Further suggestions are sought from the members on designing and conducting the evaluation of the trial model to refine existing approaches and clear procedures. It is expected, too, that this evaluation might feed into the evaluation of the second strategic phase in order than effective mechanism for cooperating at the sub-regional level may be reflected in the 3<sup>rd</sup> strategic phase of the APN from April 2010. The Parallel Session is open for discussing this issue.

## SRC Parallel Session

This paper provides the procedure for the Parallel Session. The members will group into their respective sub-regions to discuss the issues raised in the previous item (Item 9: Sub-Regional Cooperation) and brainstorm on the way forward. A draft agenda, together with all necessary documents, will be provided by the Secretariat to each sub-regional group for their consideration.

Each sub-regional group should prepare a summary of the discussion (WORD FILE) for submission to the Secretariat before the Closing. Under Item 11 on Day 2, a representative of each sub-regional committee will give a brief presentation/report (10-12 minutes) on the conclusion of the discussion on Day 1 before opening the floor for further discussion.

### **Member countries for each sub-regional group**

#### Oceania and Pacific

Australia  
Fiji  
New Zealand  
USA

#### South Asia

Bangladesh  
India  
Nepal  
Pakistan  
Sri Lanka

#### Southeast Asia

Cambodia  
Indonesia  
Lao PDR  
Malaysia  
Philippines  
Thailand  
Viet Nam

#### Temperate East Asia

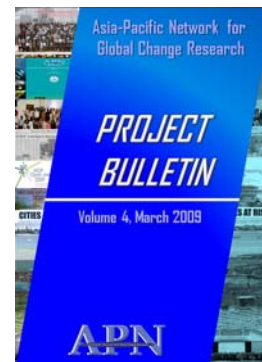
China  
Japan  
Mongolia  
Republic of Korea  
Russian Federation

## Update on Activities involving the Scientific Planning Group: (Supplement to the Report by the SPG)

### Activities Conducted in 2008/9

#### 1. Projects Funded

20 projects are currently being supported under the Annual Regional Call for Research Proposals (ARCP) Programme. ARCP Projects supported in 2008/9 are summarized in Volume 4 of the Project Bulletin, published March 2009, of which both hard and soft copies are available. A summary sheet of projects is appended as [IGM-SPG/14/13-App.1](#).



#### 2. Proposals Submitted & Reviewed

With regards to the Annual Regional Call for Research Proposals launched in May 2008, 37 summary proposals were received and, following review by the SPG Sub-Committee, 18 proponents were requested to submit full proposals, which were reviewed by the SPG. SPG recommendations for funding will be discussed separately on Day 3 under Item 22 of the 14<sup>th</sup> IGM/SPG agenda. Please also refer to Item 22 in your folders for a summary spreadsheet of the 18 full proposals.

#### 3. Other activities to be conducted at the Pre-Meeting on 17<sup>th</sup> March and reported to the 14<sup>th</sup> IGM on Day 2

- **Review of APN's Policy on Data Sharing & Management**

As the APN becomes increasingly involved in the development and deployment of new observing systems that will collect increasing amounts of data that will provide needed input to research, we need to aim to ensure that all of the data that is collected using APN funds is shared on a full and open flow and exchange of all such scientific data. The SPG is asked to review the current policies in place with a view to strengthening and encouraging the improvement of these policies and their fullest possible application. **The results of the discussion will be presented to the IGM in the SPG report.**

##### 1.1 APN Terms of Agreement attached to Project Leader Contracts

**VII. Accessibility to Data:** When an APN-funded project/activity generates new data or datasets and/or collects existing data or datasets, the Project Leader must make the said data/datasets available to the APN within twelve (12) to twenty-four (24) months of project/activity completion in order that the APN can freely disseminate the said data/datasets.

##### 1.2 Criteria in the Annual Regional Call for Research Proposals (ARCP)

**Criterion #10. Meeting standardised data collection and user needs, and open access to data and research sites:** In the interests of the greatest benefit in the shortest time for the greatest number of countries in the region, the best proposals will promote *better data collection, analysis and dissemination, open access to existing and new datasets, and access to research material and sites.*

- **Annual Calls for Proposals (ARCP and CAPaBLE)**

This item is to discuss the annual calls for proposals and, in particular, two related items: scientific themes and conflict of interest policy.

### 2.1 *Review of Scientific Themes*

Current/emerging scientific themes were discussed at the previous two SPG Pre-Meetings (in Honolulu in 2007 and in Kobe in 2008) and presented to the respective IGM(s) for approval. The box below outlines identified topics of relevance and placed in the "Frequently Asked Questions" documentation in the 2007 and 2008 Calls for Proposals. The SPG has also used the information generated from the country reports of APN members over the past 2 years and information will be collated and provided for the SPG in this regard for 2009.

#### **2007**

Climate: change & variability, observation, GEOSS, adaptation; Water: water quality, floods and drought; Agriculture and food security; Air quality; Health Education for Sustainable Development

#### **2008**

Education continues to be relevant; Development of mega-cities (social and physical perspective); Bio-fuels; Vulnerability to climate change, adaptation (physical and social science interaction); integrated global change science and society – how society adapts; vulnerability assessment and adaptation; low carbon society; climate prediction; air quality and human health; ecosystem degradation, desertification in arid, semi-arid regions

### 2.2 *Review of APN's Reviewer Conflict Of Interest Policy*

The time has come to revisit the APN's Conflict of Interest Policy for SPG members and for external experts who review proposals submitted to the APN. As the APN will enter into its 3<sup>rd</sup> strategic phase from April 2010, the SPG is asked to review the current policy and suggest changes, if needed.

During the 7<sup>th</sup> IGM a revised Conflict of Interest policy was approved, which is outlined below. An additional review made in 2005 following the 10<sup>th</sup> IGM, did not result in any changes.

Before reviewing the proposals assigned to you, please read the points below very carefully. Should any of points 1 to 5 apply, you **MUST** declare a Conflict of Interest (CI). Furthermore, if "CI" is present in your area of the **Reviewer Matrix**, a conflict of interest has been noted and you are asked not to review the proposal.

1. Reviewers should not review, seek to review, or be seen to influence the review of their own proposals.
2. Reviewers should declare a conflict of interest if any of the following applies:
  - (a) they are a collaborator in the project or have collaborated directly with the proponent in the past four years;
  - (b) the reviewer is employed by the same organization or institution as the proponent or has a similar connection (e.g. board member or advisor of that organization); or
  - (c) the proponent is a family member or business partner.
3. When a reviewer declares a conflict of interest, the Secretariat will decide whether the declared conflict might preclude or might be perceived to preclude the reviewer from providing an unbiased review.
4. If the reviewer disagrees with the decision the reviewer may appeal the Secretariat's decision to the Scientific Planning Group, which shall review the decision; reach a conclusion; and so inform the reviewer and the Secretariat.
5. Reviewers in doubt as to whether they should review a proposal may consult the APN Secretariat for advice.

**Note: The fact that a proposal involves, or has originated from, the country of a reviewer is not considered, in and of itself, to be a conflict of interest.**

### **SPG Activities in 2009/10 and Beyond**

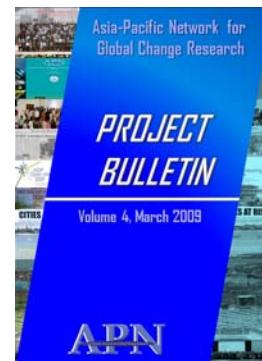
- Launch an annual call for proposals for ARCP activities
- Conduct, upon 14<sup>th</sup> IGM approval as a proposed new activity, a Synthesis of APN Climate Projects
- Perform an evaluation of the “Funded Project Sets” of the second Strategic Phase review, and provide input to the Science and Policy agendas, among others, for the evaluation report and for the third strategic plan

## Update on Capacity Development & the CAPaBLE Programme: Report from the Capacity Development Committee (CDC)

### Activities Conducted in 2008/9

#### 1. Projects Funded

16 projects are currently being supported under the CAPaBLE Programme (3 comprehensive research projects and 13 capacity building projects). CAPaBLE Projects supported in 2008/9 are summarized in Volume 4 of the Project Bulletin, published March 2009, of which both hard and soft copies are available. A summary sheet of projects is appended as [IGM-SPG/14/14-App1](#).



#### 2. Proposals Submitted & Reviewed

With regards to the CAPaBLE Calls for Proposals launched in May 2008, 37 summary proposals were received and, following review by the CDC, 18 proponents were requested to submit full proposals. One APN seed-grant recipient also submitted a full proposal thus 19 proposals proceeded to Stage 2 and are being considered for funding from 2008/9. Recommendations for funding will be discussed separately on Day 3 under Item 21 of the 14<sup>th</sup> IGM/SPG agenda. Please also refer to Item 21 in your folders for a summary spreadsheet of the 18 full proposals.

#### 3. Launch of Call for Proposals for Comprehensive Research Project for Phase III of the CAPaBLE Programme

The APN launched an independent call in July 2008 inviting proposals for funding for Comprehensive Research Projects (CRPs) that will run for up to 3 years during Phase III of the CAPaBLE Programme from April 2009. The APN received 8 full proposals and the outcomes of the review process and recommendations for funding endorsement by the 14<sup>th</sup> IGM will be presented under Item 21. Please also refer to Item 21 in your folders for a summary spreadsheet of the 8 full proposals.

The Call for Comprehensive Research Proposals specifically targeted capacity enhancement of leading researchers in developing countries to produce comprehensive scientific information on **climate change impacts, adaptation and vulnerability** which are made available for policy-makers in developing countries and which will contribute to international scientific exercises such as the Intergovernmental Panel on Climate Change (IPCC).

#### 4. Evaluation of Phase One: Climate (April 2003 to March 2006):

It was endorsed at the 13<sup>th</sup> IGM in 2008 that an evaluation of Phase One of the CAPaBLE programme would be performed, with the results published by 2008. The report of the evaluation, which was conducted from May to August 2008, was reviewed at the 10<sup>th</sup> Steering Committee Meeting and the following action points were noted:

- a. Finalise the CAPaBLE Phase I Evaluation Report: Summary for Stakeholders incorporating the suggestions from the SC (refer to the summary of the SC Pre-Meeting and the Chairperson's Summary for detailed suggestions). Revision 1 of the evaluation report is attached as [IGM-SPG/14/14-App2](#).
- b. In preparing a synthesis of the CAPaBLE projects, it is more important to highlight (excellent) examples of the activities implemented and this would serve as the synthesis itself. The synthesis is to be completed in 2009 (refer to point 4 below).
- c. A quantitative measure for the evaluation of capacity building should be looked at more closely, understanding that it is difficult to select appropriate indicators to measure the success of capacity development. [Work in Progress](#)



- d. The Secretariat is to research capacity development success indicators adopted by other institutions with a view, too, of preparing quantified data. [Work in Progress](#)
- e. In addition to a summary for stakeholders, there is a need to synthesise, at the programme level, the outcomes of the CAPaBLE programme focusing more on the research/activity contents, rather than number of projects, number of publications, etc (more on the outcome and how it makes a difference to the global research community and policy makers). Current CAPaBLE Phase One brochure is to be used as the template and expanded to provide important outputs and successes of projects conducted during Phase One. The synthesis report is for wider dissemination. [Work in Progress](#)

### **Activities in 2009/10 and Beyond**

- Finalise a synthesis product, based on the CAPaBLE Phase One brochure, for showcasing at the 17<sup>th</sup> UNCCD in May 2009 (subject to 14<sup>th</sup> IGM approval)
- Launch an annual call for proposals for capacity building activities
- Conduct, upon 14<sup>th</sup> IGM approval as a proposed new activity, projects on climate impact assessments (and related topics)
- Implement the 3-year Phase III of the comprehensive research element of the CAPaBLE programme

**Progress and Way Forward in the Evaluation of the APN's  
Second Strategic Phase (2005-2010)**  
(Leading to the Formulation of the Third Strategic Plan)

This paper aims to report on progress of the evaluation of APN's Second Strategic Phase (2005-2010) leading to the formulation of the Third Strategic Plan (3SP).

### Background

- The 13<sup>th</sup> IGM approved the timeline and plan of the evaluation of the APN's Second Strategic Phase (2SP) which comprises two parts: *Funded Project Set Review* and *APN Network Review*.
- With regards to the *APN Network Review*, the 10<sup>th</sup> SC Meeting provided clear guidance and suggestions on how to proceed, considering the shortened timeline for the evaluation (which was placed on hold until October 2008 due mainly to staffing issues within the Secretariat). The suggestions from the 10<sup>th</sup> SC Meeting were noted, including additional comments from an SC Pre-Meeting held prior to the 10<sup>th</sup> SC Meeting and feedback received from the SC Members by email.
- The 11<sup>th</sup> SC Meeting that took place last 17<sup>th</sup> March 2009 provided further guidance on the way forward.

### Target outputs

- An evaluation report for internal use (a simple working document with lesser number of pages than the evaluation report of the First Strategic Phase)
- A comprehensive report on the *Funded Project Set Review* (similar to CAPaBLE Phase I brochure but with detailed key findings and recommendations)

### Progress to date and major work ahead

- Completed preparatory stage of the evaluation of the 2SP and formulation of the 3SP
- A questionnaire will be distributed to gauge the APN's progress towards achieving its goals and implementing the strategies outlined in the 2SP and will encourage the active involvement not only of its organs but of the global change community as well; then responses will be reported at the next SC Meeting.
- The APN will arrange visits to countries for informal talks with the Focal Points and other key persons in the government.
- The SC will meet for one day (more if deemed necessary) prior to the Augmented SC Meeting (ASCM)<sup>1</sup>, which will be held around mid-September to first week of October, to finalise the review process and provide input for the evaluation report and the 3SP.
- The SC will assign a writing team, involving two or three members from the SC (and at least one SPG Co-Chair), to work with the Secretariat in completing the evaluation report and finalise a timeline and draft outline for writing the 3<sup>rd</sup> strategic plan.
- A detailed timeline will be devised by the assigned writing team to finalise the draft evaluation report and draft/finalise the 3<sup>rd</sup> strategic plan ensuring that the SC, national Focal Points and Scientific Planning Group Members have an opportunity to comment on the final drafts at least six (6) weeks prior to the 15<sup>th</sup> IGM/SPG meeting where endorsement will be sought.

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<sup>1</sup> The ASCM will comprise of SC members and scientific "lead external reviewers" for the "funded project sets review"

## Responsibilities and Expected Roles of SC Members

### Direct citation from the APN Framework Document:

#### **B. The Steering Committee**

##### **1. Mandate**

*The Steering Committee (SC) as designated by the IGM:*

- i. acts on behalf of the IGM during the period between the IGMs, implementing IGM decisions, with assistance from the Secretariat*
- ii. facilitates administrative and management arrangements necessary to implement the programme of activities of the APN. This includes thorough consideration of the APN budget ~~implications for project proposals that are found, by the SPG, to fit the APN research priorities so that it can make recommendations to the IGM;~~*
- iii. consults the national Focal Points regarding the potential attendance of observers as referred to in section A. 2 Participation - iii*

*In particular, the SC guides the Secretariat in:*

- iv. developing funding for the APN and its programmes and activities by encouraging member countries to contribute funds or in-kind support*
- v. exploring potential funding from other sources, e.g., international agencies and the private sector*
- vi. liaising with international global change agencies and seeking their support and involvement in APN activities.*

#### **Guidance for Steering Committee (SC) Members**

*Steering Committee (SC) Members, after being selected by the Inter-Governmental Meeting (IGM), are expected to work very closely together and in close interaction with the APN Secretariat to guide the APN in the intercessional period between the IGMs, especially to promote and encourage effective implementation of IGM decisions. SC members are expected to be very proactive and to initiate action to improve the APN program, planning and operations, especially via electronic communications.*

*SC members may be called upon to participate in SC efforts to identify important issues, evaluate these, consider options for resolving them, and take decisions to implement them. Such issues could include, but are not limited to: administrative and financial management arrangements to implement the APN program; development of funding for the APN and its programs from member countries, international agencies and the private sector, either on a cash or in-kind basis; interacting with the international global change research programs and international intergovernmental and non-governmental organisations; preparation, in cooperation with the APN Secretariat, of an annual operating plan; keeping under review the roles, responsibilities, performance and achievements of the APN using appropriate metrics; and reporting to the IGM and keeping the APN Secretariat informed regarding SC activities.*

*NFPs are encouraged to serve on the SC when called upon to do so (Note: the two SPG Co-chairs are automatically SC Members). An SC Member who is not able to fulfil his/her responsibilities for any reason should step down so that a new member may be*

*appointed. If an nFP serving on the SC no longer serves as his/her country's nFP, then the newly appointed nFP for that country is expected to take his/her place on the SC in the capacity of an observer, until the next IGM at which a new SC Member will be selected.*

*The SC Chair, who is elected by the SC from among its national Focal Points, is expected to manage the IGM on an effective and timely basis, keeping in mind the need to do so on a fair and open-minded basis and to seek appropriate balance among the APN's scientific, scientific management, administrative and financial management interests and, when appropriate, set aside his/her personal scientific, managerial, and/or national official interests. The Chair is strongly encouraged to seek solutions to issues based on consensus.*

*The SC Chair and other SC Members as well are expected to work closely with the APN Secretariat to represent the APN in a wide range of international meetings and related activities, carrying to these audiences information regarding the APN program, planning and operations; inviting input to the APN program, planning and operations within and from these fora; and encouraging, when appropriate, improved interaction with the APN.*

*If the Chair finds it necessary to be absent or is otherwise unavailable (e.g., because of a conflict of interest), another SC Member may be asked to serve as an Acting Chair on an interim basis and, in doing so, to act in accordance with the above guidance.*

*SC Members from developed countries are expected to seek and obtain funding from their programs, institutions and/or governments to participate in SC meetings and related activities. Travel support may be provided for SC Members from developing countries.*

**Note:**

The elected SC Chair is expected to write a Message for the quarterly APN Newsletter and SC Members are also welcome to contribute in the Newsletter through article submission.

**Provisions on Steering Committee (SC)  
Membership and Election Procedures**  
(from the Framework Document)

**Membership**

- i. The SC includes:*
  - a. three Focal Points elected by the IGM, in addition to one Focal Point from the country to host the next IGM*
  - b. the Focal Point from the country to host the next IGM has a one-year term on the SC while the other three Focal Points are elected for a two-year term*
  - c. the two SPG Co-Chairs*
  - d. if an SPG Co-Chair is also a Focal Point, then another Focal Point will be included*
- ii. The SC may co-opt experts as members to participate in SC activities for a term of one-year (renewable).*

**Procedures**

- i. The SC elects from among its national Focal Points a Chair and Vice-Chair.  
~~The SC elects one of its Focal Points to act as its Chair.~~
- ii. The Chair is responsible, with the assistance of the Secretariat, for managing SC activities.

## Current Members of the APN Steering Committee

### **Chair:**

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## Synthesis of APN Climate Projects

**What is a synthesis?** In the present context, the term “synthesis” is a combination of outputs via APN-funded projects and generated ideas vis-à-vis next steps. A synthesis not only summarises the findings of the outputs, but also considers the underpinning questions, identifies commonalities and generalizations, i.e. identifies higher-level concepts, patterns and needs (research gaps and future direction).

Background to APN Synthesis Activities: The APN has conducted two previous syntheses on “Land-Use Cover Change: An Initial Synthesis (2003)” and “Global Change and Coastal Zone Management: A Synthesis Report (2004)” The latter synthesis resulted in a number of citations in the IPCC Fourth Assessment Report (AR4) as well as the publication of APN’s first book on “Integrated Coastal Zone Management” published by Springer in 2006.

The 7<sup>th</sup> Inter-Governmental Meeting (IGM) of the APN and the Operating Plans developed for APN’s second strategic phase also underscored the need for the APN to regularly perform synthesis activities in order to remain dynamic and to contribute effectively to global change dialogues. In particular, synthesis activities would further ensure that the APN is contributing to global change research for the Asia-Pacific region in terms of its five goals highlighted in its Second Strategic Plan (2005-2010).

**Proposed Synthesis Activity:** Scientific understanding of climate change is advancing at a significant rate, with new information emerging about the likely impacts of climate change, the options to adapt to these changes, and new approaches for mitigation. Through many national and international fora, it is becoming clear that climate is one of the most, if not *the* most, pressing issues in the political arena today. The most recent 34<sup>th</sup> G8 Toyako Summit underscored its commitments to climate change, both adaptation and mitigation, as well as the need to support developing countries for financing, transferring technology and capacity building activities for these nations to be able to respond effectively to climate change.

With this, the APN proposes a two-year synthesis on *APN and Climate Change: Perspectives from Asia and the Pacific*; 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.

Involvement from both the scientific and decision-making bodies within the APN community is expected. The assessment will have strong scientific leadership and take into account the results of research undertaken in this area by other programmes (such as the GC programmes under the ICSU umbrella; the AIACC programme, etc.) in order to establish the widest possible basis for the assessment. The final product might also include a book.

The objectives of the proposed synthesis will be to:

- a) Evaluate the relevance, achievements and present status of APN climate change activities by reviewing current and past projects under the APN’s two main pillar of activities – the ARCP and the CAPaBLE programmes.
- b) Highlight significant problems of climate change, including impacts and vulnerabilities, and identify urgent research needs (in-so-doing APN can identify gaps between research needs and APN activities.)
- c) Identify a future research direction for climate change that is relevant to the region.
- d) Identify projects that have generated (or utilised) data which can be used according to the data sharing principles of the Global Earth Observation System of Systems (GEOSS)

- e) Report the results to the Inter-Governmental Meeting and Scientific Planning Group Meeting to review and thus determine future APN policy.
- f) Disseminate the results to the global scientific community (via international journals, websites, relevant fora, etc) policy and decision-making community (via policy-briefs; a synthesis summary report and information exchange at relevant fora), and to the public (via the media and general publications).
- g) Discuss the activity at relevant policy -fora, and feed the results into policy processes including the IPCC (particularly the 5<sup>th</sup> Assessment report) and UNFCCC COP15/16/17/, SBSTA30/32/34.

*Expected outcomes:*

- a) Synthesis Report (book, peer reviewed publications, etc.) that synthesises and assesses the climate activities undertaken by the APN.
- b) Report is expected to contain results of a wide exploration of the present situation and problems of climate change in the region.
- c) Suggestions for future directions of APN climate change activities, for example by:
  - Identifying gaps between needs and present research in climate change;
  - Identifying best practices, particularly in the capacity building needs of the region
  - Identifying the links between climate change and sustainable development
  - Identifying priority foci for future projects, both research-based and in capacity building
  - Enhancing dialogue with the scientific and policy communities
  - Ensuring that future activities are both regionally and policy-relevant

**Suggested Timeline for Synthesis Activity:**

**Late October/Early November 2009.** *Scoping Meeting* in Kobe (2 to 3 days) to discuss the synthesis programme, nominate experts to be involved in the work, and decide on activities to be carried out at the Synthesis workshop (August 2010)

**February to July 2010.** Material Collection for Initial Synthesis workshop.

**August 2010**

*Synthesis Workshop:* Activities will include, among others, the following

- general review of APN's past activities
- summarise the first phase of activities conducted by the APN in climate change (1996-2004) particularly highlighting identified outstanding projects
- consider the evaluation of the second strategic phase, particularly the evaluation of climate-related projects
- identify best practices and research gaps, and discuss the contents of the synthesis report (book, peer review journals, etc.)
- highlight the capacity building needs of the region
- highlight focus areas for APN to work in the future

**September 2010-January 2011**

Synthesis team to complete draft report and work on key issues raised.

**March 2011**

Draft report and outcomes presented to the IGM for approval and follow-up activities.

**May 2011**

Synthesis product(s) are completed for dissemination

**Budget for 2009-2011:**

US\$ 50,000 approx (US\$10,000 of which are from Hyogo funds)

**Proposed New Activity: Climate Impact &  
Vulnerability Assessments (& related topics)  
Under the CAPaBLE Programme**

**1. Background**

The Ministry of the Environment, Japan, has announced that there will be an approximate 20% increase in budget in the fiscal year running from April 2009 to March 2010 for APN activities. Following a meeting to discuss the areas of activities where the budget could be used, it was agreed that the APN Secretariat would develop a concept paper for 14<sup>th</sup> IGM approval to provide funds for capacity building activities in local/national/regional climate-related impact assessments.

**2. Concept: Capacity Building Activities for Climate and Related Impact & Vulnerability Assessments**

It is expected that approximately US\$150,000 will be available for projects in capacity building for scientists and stakeholders in climate impact and vulnerability assessments (and related topics) at the local and regional levels.

The approach to funding specific activities may be considered as follows, although will be subject to further streamlining with the Capacity Development Committee and the SPG, before submitting to the 14<sup>th</sup> IGM for approval:

1. By identifying current proposals submitted under the 2008 ARCP and CAPaBLE annual calls for proposals and shifting some of them to the present focus group.
2. By launching an independent call for proposals as soon as possible following the 14<sup>th</sup> IGM and to provide funding from September 2009 for focussed activities.
3. As well as other activities, REDD activities are considered appropriate.
4. Local-level capacity building activities of policy-makers (provincial/city-level) in impact and vulnerability assessments are also considered appropriate.
5. At the latest, it is expected that proposals that have been approved will begin work in this focus area from September 2009.

**3. Examples of Current Proposals that *may* have some relevance in the 2008 system currently undergoing Review (note the below is not an endorsement of any kind, but a list provided by the Secretariat to facilitate discussions)**

1. Evaluating Adaptation Options for Sea-Level Rise by Studies of Long-Enduring Responses in Fiji, Kiribati, and Samoa
2. Identification and Management of "HOT SPOT" Areas of Climate Change, Adaptation and Vulnerability for Sustainable Rice (*Oryza sativa* L.) Crop Production
3. Enhancement of Knowledge Base to Counter the Impacts of Climate Change on the Biodiversity and Associated Livelihoods of Mangrove Ecosystem in South Asia
4. Project Scoping and Training Workshop for REDD in Indonesia, Cambodia, and Lao PDR
5. Workshop on Climate and Agricultural Risk Management, Phnom Penh, 2009
6. Assessment of climate change impacts on marine environment and productivity of the eastern Indian Ocean
7. Vulnerability of Home Garden Systems to Climate Change and Its Impacts on Food Security in South Asia
8. Building Asian Climate Change Scenarios by Multi-Regional Climate Models Ensemble
9. Asian Coastal Ecosystems: An Integrated Database and Information Management System (DIMS) for Assessing impact of Climate change and its Appraisal
10. Assessment of Role of Community Forests (CFs) in CO<sub>2</sub> Sequestration, Biodiversity, and Land Use Change

**Expected Budget: US\$150,000**

**Proposed New Activities with Funding (US\$30,000)  
from Hyogo Prefecture Government, Japan**

For Fiscal Year 2009/10, the Hyogo Prefecture Government, host of the APN Secretariat, will provide US\$30,000 to the APN for earmarked activities in global change research. With this in mind and, particularly, considering the action points from the 13<sup>th</sup> Inter-Governmental Meeting and the 10<sup>th</sup> Steering Committee Meeting, the following (summary of) activities are proposed:

**Activity 1: International Symposium on Low Carbon Societies for Sustainability**

Considering action points 2 and 5 of the 10<sup>th</sup> SC Meeting, the APN is discussing the possibility of holding an international symposium on Low Carbon Societies with the Hyogo Prefecture Government. This activity, which will be over 2 years, will involve a number of key scientific and governmental institutions including Nagoya City Government, Nagoya University, ICLEI, IGES, NIES (Global Carbon Project), Hyogo Prefecture Government, Hyogo Prefecture University and GEN (Global Eco-Labeling Network). A scoping meeting is to be planned back-to-back with a GEN meeting, being held in Kobe end November 2009. The date for the international symposium will be set at the scoping meeting.

**Budget:** US\$10,000 for scoping meeting

**Activity 2: Climate Synthesis Scoping Workshop**

This activity has already been presented under *IGM-SPG/14/17-01*. As the scoping workshop for the Climate Synthesis is planned to be held in Kobe at (or in the vicinity of) the APN Secretariat, US\$10,000 is to be earmarked from Hyogo funds for this APN/Hyogo co-sponsored scoping workshop.

**Budget:** US\$10,000 for scoping meeting

**Activity 3: Partnership with ASEAN Biodiversity Centre for the ASEAN Biodiversity Conference**

While attempting to strategically implement APN's policy agenda in its second strategic phase and considering action point 37 of the 13<sup>th</sup> IGM: *the Secretariat is to consider APN's visibility and expanding more substantive APN activity to and supportive of policy-making, such as science-policy fora and symposia*, APN with Hyogo Prefecture as its co-sponsor, will partner with the ASEAN Biodiversity Centre in the "ASEAN Biodiversity Conference - Progress Towards 2010 and Beyond," to be held 21-23 October 2009, in Singapore. By providing co-funding of US\$10,000 the APN will be able to hold a side event that showcases (and synthesises) the 3 APN biodiversity international symposia held in Kobe and supported by Hyogo Prefecture Government in 2007, 2008 and 2009, the outputs of which are also expected to be highlighted at the CBD COP10 to be held in Nagoya, Japan in 2010.

**Budget:** US\$10,000 for scoping meeting

## APN Visibility at High-Level Science-Policy Fora

**Activity 1: 17<sup>th</sup> UNCCD, New York, USA.** In line with the action points from the 10<sup>th</sup> Steering Committee Meeting, the APN Secretariat is registering its attendance at the 17<sup>th</sup> UNCCD Partnerships Fair, being held in New York from 4-12 May 2009.

The objectives are two-fold:

(1) To highlight the successes identified from the Evaluation of Phase I of the CAPaBLE programme, which is a registered WSSD type II partnership initiative, by joining in the interactive discussion sessions and displaying and disseminating materials at an exhibition booth

(2) The CSD Secretariat has expressed considerable interest in APN holding a training session on proposals writing and has offered a one-day timeslot in the first week of the 17<sup>th</sup> CSD to hold this session (6<sup>th</sup>, 7<sup>th</sup> or 8<sup>th</sup> May). This will be the APN's Second Proposals-Writing Training Workshop (PWTW) with the aim of providing essential information on how to write proposals for the CAPaBLE "partnership programme." APN-related themes of agriculture, land and climate vulnerability and impacts would be the core topics (showcasing in particular successful projects in these areas as well as addressing the thematic clusters of the 2-year cycle thematic cluster of the UNCCD). Particular emphasis will be placed on the CAPaBLE programme for ensuring regional-level cooperation for sustainable development.

**Budget:** US\$20,000

**Activity 2: SBSTA30 Informal Dialogue and (Potential) Side Event.** As mandated at the twenty-fourth session of the SBSTA, the SBSTA secretariat organized a meeting for an informal discussion among Parties to explore how the SBSTA might facilitate a more effective dialogue between Parties and regional and international climate change research programmes and organizations in the context of decision 9/CP.11. APN's continued presence at these "informal dialogues" is crucial as these meetings provide a very useful platform for a two-way communication between Parties and research programmes and organizations.

This year, the 3<sup>rd</sup> "informal dialogue" is expected to take place in June 2009 at the thirtieth session of the Subsidiary Body for Scientific and Technological Advice (SBSTA30) and the Subsidiary Body for Implementation (SBI) of the UNFCCC. This meeting is expected to have active participation of representatives from the IPCC, ESSP, WCRP, IGBP, IHDP, START, IAI and the APN. At the time of writing the specific topic(s) for discussion have not been decided.

Following the success of the APN-IAI side event at SBSTA28, the APN is currently exploring with members of the GC community the possibility of co-hosting a side event. Should a side event materialize, the agenda will be devised in close consultation with the APN Steering Committee.

**Budget:** Minimum US\$10,000

**Activity 3: UNFCCC COP/MOP15 and SBSTA31.** Attendance at COP15 will be specifically to highlight the APN's Climate Synthesis activities (see *IGM-SPG/14/17-01*) and progress; as well as to highlight the outputs of the CAPaBLE Phase One Evaluation. While there is no current plan for a side event, an exhibition booth will be sought.

**Budget:** from the APN allocated Travel Budget

## Proposed APN's 2009/2010 Operating Plan

### Introduction

It is highlighted in the Second Strategic Plan that the Secretariat and the Steering Committee will prepare an annual operating plan for approval by the IGM.

At the end of each year, the Steering Committee will evaluate APN's achievements related to the annual operating plan.

Based on the draft prepared by the Secretariat with the advise of Subramanian Moten, SPG Member for Malaysia, the 3<sup>rd</sup> SC (March 2006, Bangkok) developed the APN's Second Strategic Phase 2005-2010 Operating Plan. The 11<sup>th</sup> IGM endorsed it.

In the year 2006/2007, the Operating Plan was in effect equivalent to an annual Operating Plan for the year. At the end of 2008/2009, like in the previous year, the Secretariat and the SC reviewed APN's achievements related to the Operating Plan based on the annual report of activities and the Secretariat's review note on the implementation of the Operating Plan together with the audited financial report, and prepared the Operating Plan for 2009/2010 with two timescales:

- Short-term (April 2009 to March 2010) and
- Medium- and long-term (April 2009 to March 2010 and beyond into 3<sup>rd</sup> Strategic Phase).

### SCIENCE AGENDA

#### Short-term (Year 2009/2010)

- Establish, revise, update scientific priorities annually, based on input from nFP, SPG members and others.
- Launch two calls for proposals simultaneously for ARCP and CAPaBLE and encourage submission of proposals.
- Identify global change events – meetings, conferences, etc, appropriate to the APN. Create a calendar of events and plan attendance and/or discuss opportunities to co-organise, co-host.
- Consider co-organising a joint side event at SBSTA30 with the GC community.
- Participate in the SBSTA30 informal dialogue with the GC community.
- Participate in the UNCSD17 to showcase the results of CAPaBLE Phase One evaluation.
- Produce a synthesis of phase 1 activities showcasing successes (base the synthesis on the Phase 1 brochure).
- Produce an Annual Science Bulletin for all ongoing projects under the ARCP and CAPaBLE processes.
- Produce an Annual Report in the 2<sup>nd</sup> to 3<sup>rd</sup> quarter of the fiscal year – detail projects that were completed during each particular year and cite any publications, regardless

of whether WIP (Work In Progress), in press, or already published.

- Follow-up on completed projects from the first strategic phase (1999-2004) and identify peer-reviewed publications.
- Continue to be pro-active in devising science (and policy) calendars of events.
- Capacity Development Committee (CDC) addresses the CAPaBLE strategies outlined in the Second Strategic Plan and devise an appropriate plan.
- Implement Phase III of the CAPaBLE programme following endorsement of new CRPs at the 14<sup>th</sup> IGM.
- Implement a new focus of activities on Climate and related assessments subject to endorsement by the 14<sup>th</sup> IGM
- Implement a 2-year Climate synthesis of APN-funded activities subject to endorsement of the 14<sup>th</sup> IGM.
- Plan and hold a scientific evaluation meeting back-to-back with the 13<sup>th</sup> SC meeting to conclude the evaluation of funded projects and to discuss and plan phase 3 issues.
- Perform an evaluation of Phase 2.
- Prepare work plan to devise a draft Strategic plan for Phase 3.
- Encourage APN-supported projects to produce publications that will feed into governmental policy-processes such as the IPCC 5<sup>th</sup> AR, Panels of the Montreal Protocol, Millennium Ecosystem Assessment, and International Panel on the Sustainable Use of Natural Resources.

### **Medium and Long-term (Year 2009/10 and beyond)**

- Continue to encourage APN-supported projects to produce publications that will feed into governmental policy-processes such as the IPCC 5<sup>th</sup> AR, Panels of the Montreal Protocol, Millennium Ecosystem Assessment, and International Panel on the Sustainable Use of Natural Resources.
- Consider options for co-organising an event with IAI and/or other GC partners.
- Plan (see short-term for climate synthesis) and conduct one or more syntheses of APN activities on a topic (or topics) that are identified.
- Publish a synthesis of APN activities from identified topic(s).
- Endorse a new strategic plan for 3<sup>rd</sup> Strategic Phase.

## **POLICY AGENDA**

### **Short-term (Year 2009/2010)**

- Identify Calendar of Policy Events appropriate to the APN and plan attendance, as needed (annually).
- Encourage PLs to publish science or policy briefs.

- Publish a flyer (one to two pages) of APN major activities/achievements in 2008/2009
- Continue to encourage APN members to translate and publish the briefing produced by the Secretariat in the vernacular language.
- Expand on science-policy question of how do we bridge science/policy? Engage members by discussing the issue at the 14<sup>th</sup> IGM and beyond.
- Personal contact/visits to national Focal Points/SPG members.
- Continue to look at the ARCP process and the CAPaBLE process and determine, "Are we asking the right questions? How is your project effective? How will it feed into policy processes? What concrete initiatives do you have in place for policy-relevance?" Review these with the SPG. Ask project proponents to elaborate these points in their proposals.
- Continue to raise the issue of science-policy interactions. Ask national Focal Points and Scientific Planning Group members to provide examples of successful science-policy interactions in their countries? For example at meetings, etc. Collate information for discussion at 14<sup>th</sup> IGM and onward.
- Continue to identify regional and international governmental processes other than IPCC and UNFCCC processes where scientific results of APN projects can be considered and/or presented. In the call for proposals, etc. encourage contribution to these processes.
- Continue to participate in international/regional conferences to highlight APN's scientific activities to promote science/policy interactions and to promote APN. The UNFCCC SBSTA30 and COP15 may be a good occasion.
- Perform an evaluation of Phase 2.
- Develop a draft Strategic plan for Phase 3.

### **Medium and Long-term (Year 2009/2010 and beyond)**

- Further investigate the possibility of encouraging (by funding and/or supporting) seminars (local, national initially) where GC scientific results are presented to government officials.
- Be more proactive in highlighting publications from APN-funded projects that might feed into regional and international governmental processes such as the IPCC (AR5) and UNFCCC processes, and others processes identified.
- Identify calendar of policy-related activities and events.
- Endorse a new strategic plan for 3rd Strategic Phase.

## **INSTITUTIONAL AGENDA**

### **Short-term (Year 2009/2010)**

- Continue to pursue new country membership of interested countries.



- Implement the APN Communications Strategy.
- Initiate discussion on collaborating/association with countries outside the APN region.
- Review the Second Strategic Phase according to the work plan to be developed by the IGM/SPG14.
- Continue to address process for active member-country participation in hosting APN meetings.
- Identify and communicate to IGM and SPG members' information on global change events relevant to the APN by compiling information received from international programmes and other sources.
- Identify, up to 4 years in advance, main meetings being scheduled by the international GC programmes such as the global change programmes, WCRP, IGBP, ESSP, IHDP, DIVERSITAS. Identify an exhaustive list and a calendar of activities (for at least 2 years in advance).
- Consider inviting scientific experts to the APN meetings on issues expected to be emphasized at their meetings.
- Have APN-initiated and APN-funded projects proactively seek collaboration with institutes and organisations that provide co-sponsorship and in-kind contributions.
- Continue to seek active involvement of host institutions in order to provide greater sustainability of projects.
- Address membership inactivity.
- Continue to work with those presently funding APN Programmes and activities to assure long-term stability of such funding.
- Based on the review of discussions held in the past, formulate financial working plan with concrete and targeted action points (divided in two separate groups, one with actions to raise additional funds, and a second one with actions to reduce expenses).
- Report in-kind contributions (in figures) in the financial reporting at IGM/SPG.
- Continue to encourage members from developing countries to consider sharing costs of travelling to IGM.
- Encourage sub-regional liaison trials in the Southeast and South Asian sub-regions.
- Perform an evaluation of Phase 2.
- Develop a draft Strategic plan for Phase 3.

#### **Medium and Long-term (Year 2009/2010 and beyond)**

- Address the legal status of APN.
- Establish a Resources Development Plan.
- Consider the possibility of looking to member countries to invest in the APN, with in-kind or financial contributions.

- Continue to mobilise funds for scientific and CB activities from sources within and outside of the APN region.
- Co-organise activities with other agencies, for the purpose of cost efficiency.
- Endorse a new strategic plan for 3rd Strategic Phase.

## Proposed Budget Plan for FY 2009/2010

All figures in US\$

	Proposed Budget Plan FY 09/10		Budget Plan FY 08/09	
<b>REVENUES</b>	<b>2,246,000</b>		<b>1,917,000</b>	
Japan: Ministry of the Environment	1,342,000		963,000	
Japan: Hyogo Prefectural Government	322,000		294,000	
USA: NSF/USCCSP	480,000		480,000	
New Zealand: Ministry for the Environment	14,000		20,000	
Republic of Korea: Ministry of Environment	10,000		10,000	
Operative Assests from FY 2008/2009	78,000			
Operative Assests from FY 2007/2008			150,000	
<b>EXPENDITURES</b>	<b>2,246,000</b>		<b>1,917,000</b>	
<b>Science and Policy Activities</b>	<b>2,061,000</b>		<b>1,760,500</b>	
Annual Regional Call for Proposals (ARCP)	720,000		720,000	
CAPaBLE	660,000		510,000	
- Comprehensive Research Projects:	180,000		180,000	
- Capacity Building Projects:	330,000		330,000	
- Science in Building Capacity for Climate Impact and Vulnerability Assessment	150,000		--	
Other Scientific Activities	130,000		81,000	
- Climate Synthesis <sup>1)</sup>	50,000		--	
- UNCSD and PWTW	20,000		--	
- SBSTA 30	10,000		--	
- Hyogo Activities <sup>2)</sup>	50,000		--	
Sub-Regional Cooperation Activities	25,000		15,000	
15th IGM/SPG (incl. SC Meetings)	100,000		97,000	
Secretariat Service <sup>3)</sup>	290,000		235,000	
Programme Fellowships	55,000		48,500	
Travel Related to Science, Policy and Institutional Activities	35,000		18,000	
Publications & Website Management	32,000		28,000	
Contingency for Scientific Activities	10,000		5,000	
Reserve for Exchange Rate Fluctuations	4,000		3,000	

<b>Administrative/Overhead Costs</b>	<b>185,000</b>			<b>156,500</b>		
Salaries and Related Costs, Administration <sup>3)</sup>		65,000			74,000	
General Operational Cost of the APN Secretariat		80,000			53,500	
IGES Overhead (3% of MOEJ's Contribution to the APN)		40,000			29,000	

1) including US\$ 10,000 from Hyogo contribution.

2) Other Hyogo Activities: Evaluation 2nd SP + Drafting 3rd SP WS (US\$ 30,000), Low Carbon Society Scoping WS (US\$ 10,000) and ASEAN Biodiversity Conference (US\$ 10,000).

3) Salaries and Related Costs of the Secretariat have been divided in two items (following the scheme introduced in Item Paper IGM-SPG/14/04-01).

Exchange Rates FY 2009/2010:

US\$ 1.00 = JPYen 100

NZ\$ 1.00 = US\$ 0.55

**Additional Contribution:**

Co-Funding/Fund-Matching from APN Funded Projects/Activities: **US\$ 750,000**

In-Kind Contribution from APN Funded Projects/Activities: **US\$ 2,100,000**

In-Kind Contribution of Member Country Governments: **US\$ 530,000**

## Resources Development

Following action points, related to resources development, are stated under the Institutional Agenda of the Operating Plan 2008/2009:

### **Short-term action points for 2008/2009**

- Have APN-initiated and APN-funded projects proactively seek collaboration with institutes and organisations that provide co-sponsorship and in-kind contributions.
- Work with those presently funding APN Programmes and activities to assure long-term stability of such funding.
- Based on the review of discussions held in the past, formulate financial working plan with concrete and targeted action points (divided in two separate groups, one with actions to raise additional funds, and a second one with actions to reduce expenses).
- Report in-kind contributions (in figures) in the financial reporting at IGM/SPG.
- Encourage members from developing countries to consider sharing costs of travelling to IGM.

### **Medium and long term action points for 2009/2010 and beyond**

- Establish a Resources Development Plan.
- Consider the possibility of looking to member countries to invest in the APN, with in-kind or financial contributions.
- Continue to mobilise funds for scientific and CB activities from sources within and outside of the APN region.
- Co-organise activities with other agencies, for the purpose of cost efficiency.

As last year, some of the action points haven't been taken up yet. In particular, neither a financial working plan (short-term action point) nor a Resources Development Plan (medium- and long-term action point) has been formulated so far.

The secretariat believes that currently this is partly due to lack of secretariat human resources. If the APN wishes to pursue an efficient strategy of resources development, more time and effort by the Secretariat (in consultation with the Steering Committee) solely dedicated to this issue are probably essential, also keeping in mind that our past attempts in delegating the task to a 'Resources Development Committee (RDC)' was, unfortunately, unsuccessful.

Advice is sought on the issue from IGM/SPG.

## CAPaBLE Review Information

The task of the IGM is to review the recommendations made by the SPG (who meet on the 17<sup>th</sup> March) for continuing multi-year projects who wish to continue funding for one more year, for new capacity building projects from the annual call for proposals, and for new comprehensive research projects from the independent call for proposals under the CAPaBLE programme.

### **1. Available Budget for 2009/10**

The proposed budget plan for the fiscal year 2009/10 indicates **US\$330,000** is available for Capacity Building activities and **US\$180,000** for Comprehensive research activities in FY 2009/2010.

### **2. Review and Recommendation of Multi-Year Projects**

Of the 2008/9 CAPaBLE projects, 2 are multi-year projects that wish to continue project activities for a further year in 2009/10. These are 2 capacity building projects moving into their second and final year of activities. Summary details are outlined in the spreadsheet (*Appendix 1*).

### **3. Review and Recommendation of New CAPaBLE projects**

Summary details of the 18 proposals received under the annual call for CB proposals and the 8 proposals received under the independent call for comprehensive research proposals being considered for funding recommendation by the SPG are presented in the attached spreadsheets (*Appendices 2 and 3 respectively*) for your information. Proposals selected by the SPG for recommendation to the IGM for funding will be presented on day 3 under the present Item 21.

*Please note that, during the presentation made by the SPG Co-Chairs under Item 21, the spreadsheets will be re-distributed in ranking order highlighting recommendations and SPG comments.*

### 2008/09 CAPaBLE Continuing Multi-Year Projects: Recommended for 2009/2010 Funding

Project Reference Number	Project Title	Project Leader	Email Address	Relevance to 2SP Science Agenda	Summary of Project	Regional Collaboration Countries Involved	Project Duration	Funding Awarded (US\$)			Recommendations to the IGM
								2008/9 Funding Awarded	2009/10 Funding Requested	2009/10 Funding Awarded	
<b>CBA2008-05NMY-Ailikun</b>	The Capacity Building for Drought Monitoring and Studying in Monsoon Asia Under the Framework of Asian Water Cycle Initiative (AWCI)	Dr. Ailikun, Chinese Academy of Science, CHINA	<a href="mailto:aali@mairs-essp.org">aali@mairs-essp.org</a>	Use of Resources and Pathways for Sustainable Development	Capacity building for drought monitoring in various Asian countries and development of early warning system of drought hazard in related countries	Japan, China, Mongolia, Thailand, Viet Nam, Pakistan, Philippines, Nepal	2 years	<b>40,000</b>	<b>40,000</b>	<b>37,500</b>	<b>Funding Recommended at USD37,500:</b> Budget needs to be trimmed in terms of working lunches and reception dinner, particularly in light of the per diems being received for all participants. In the approval award request update on the progress in data collection from Thailand, Nepal and Pakistan.
<b>CBA2008-12NMY-Ishida</b>	The Global Earth Observation System of Systems Asian Water Cycle Initiative Observation Convergence and Data Integration (GEOSS/AWCI/OCDI)	Mr. Chu Ishida, Japan Aerospace Exploration Agency (JAXA), JAPAN	<a href="mailto:ishida.chu@jaxa.jp">ishida.chu@jaxa.jp</a>	Crosscutting-Issues and Science-Policy Linkages; Use of Resources and Pathways for Sustainable Development	Data handling, exchange policies and an overall climate (water and energy cycle) data management strategy that will meet the goals of the Global Earth Observation System of Systems (GEOSS) within the context of GEOSS Work Plan	Bangladesh, Cambodia, China, India, Indonesia, Japan, Korea, Lao PDR, Mongolia, Nepal, Pakistan, Philippines, Sri Lanka, Thailand, Viet Nam	2 years	<b>75000</b>	<b>No funding requirement</b>	<b>No funding requirement,</b> project is moving along well and recommend approving for a second year.	

**Total Awarded**

**37500**

### 2008 CAPaBLE Proposals Recommended for 2009/2010 Funding

Proposal Reference Number	Project Title	Project Leader	Email Address	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	Funding (US\$)			Recommendations to the IGM
								2009/10 Funding awarded	2010/11 Funding requested	Maximum Funding expected	
<b>CAPACITY BUILDING PROPOSALS</b>											
<b>2008CB-FP02-Bishry</b>	Project Scoping and Training Workshop for REDD in Indonesia, Cambodia, and Lao PDR	Dr. Rony Bishry, BPPT - The Agency for the Assessment and Application of Technology, INDONESIA	<a href="mailto:rbishry2000@yahoo.com">rbishry2000@yahoo.com</a>	Climate; Ecosystems, Biodiversity and Land Use; Use of Resources and Pathways for Sustainable Development	Training and capacity-building in understanding REDD and methodologies for implementing REDD activities and initial identification of potential REDD activities in each of the three countries.	Indonesia, Cambodia, Lao PDR	1 year	<b>24,400</b>	<b>N/A</b>	<b>24,400</b>	Funding recommended. Positive in terms of supporting sustainability at the local community level and globally as well. Very well organised and comprehensive response given. Relevant to COP15 in Denmark and issues of REDD implementation in the region.
<b>2008CB-FP03-Visarto</b>	Workshop on Climate and Agricultural Risk Management, Phnom Penh, 2009	Dr. Preap Visarto, Department Agricultural Directorate, Ministry of Agriculture Forestry and Fisheries (MAFF), CAMBODIA	<a href="mailto:visarto09@yahoo.com">visarto09@yahoo.com</a>	Climate; Use of Resources and Pathways for Sustainable Development	Follow-up on the project " Climate and Crop Disease Risk Management: An International Initiative in the Asia-Pacific Region" to continue the association of the research team and expanding the network more widely into SEA, thus, allowing effective research	Cambodia, Australia, Thailand, Viet Nam, India, Bangladesh, USA, Philippines	1 year	<b>30,000</b>	<b>N/A</b>	<b>30,000</b>	Funding recommended. Considered a good proposal. Considered that the project could be undertaken at the average award of a CAPaBLE project, which is US\$30,000.



Proposal Reference Number	Project Title	Project Leader	Email Address	Relevance to 2SP Science Agenda	Project Summary	Regional Collaborati on Countries Involved	Project Duration	Funding (US\$)			Recommendations to the IGM
								2009/10 Funding awarded	2010/11 Funding requested	Maximum Funding expected	
<b>2008CB-FP04-Salinger</b>	International Workshop on the Content, Communication and Use of Weather and Climate Products and Services for Sustainable Agriculture	Dr. Michael James Salinger, University of Auckland, NEW ZEALAND	<a href="mailto:j.salinger@auckland.ac.nz">j.salinger@auckland.ac.nz</a>	Climate; Use of Resources and Pathways for Sustainable Development; Crosscutting Issues and Science-Policy Linkages	The workshop aims to provide scientists from emerging and developing countries to interact with experts from different regions and build their capacity in the area of strategies for more targeted weather and climate information and forecasting for increased preparedness to sustainable agricultural development, especially in the Asia-Pacific region.	New Zealand, Australia, Bangladesh, Cook Islands, China, Fiji, Indonesia, Kiribati, Malaysia, Samoa, Philippines, Russian Federation, USA, Vanuatu, Viet Nam.	1 year	<b>25,000</b>	<b>N/A</b>	<b>25,000</b>	Funding recommended at standard travel grant of US\$25,000

Proposal Reference Number	Project Title	Project Leader	Email Address	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	Funding (US\$)			Recommendations to the IGM
								2009/10 Funding awarded	2010/11 Funding requested	Maximum Funding expected	
<b>2008CB-FP05-Trieu/Huy</b>	Capacity Building for Mainstreaming Climate Change Issues into Socio-Economic Development Planning in Viet Nam	Dr. Vu Van Trieu and Dr. Luong Quang Huy, IUCN Viet Nam Country Office, VIET NAM	<a href="mailto:vuvantrieu@iucn.org.vn">vuvantrieu@iucn.org.vn</a> <a href="mailto:huy@iucn.org.vn">huy@iucn.org.vn</a>	Climate; Crosscutting Issues and Science-Policy Linkages	Raising awareness and building capacity to mainstream climate change issues into socio-economic development plans for policy makers through a series of workshops in the North, Central and South of Vietnam.	Viet Nam	1.5 years	<b>30,000</b>	<b>N/A</b>	<b>30,000</b>	Funding recommended. There is good engagement with stakeholders and there is strong institutional collaboration. Condition to funding is that APN is highly visible throughout the project activities.
<b>2008CB-FP08-Larigauderie</b>	Second DIVERSITAS Open Science Conference: "Biodiversity and Society: Understanding Connections, Adapting to Change": Ensuring a Strong Scientific Contribution from the Asia-Pacific Region	Dr. Anne Larigauderie, DIVERSITAS	<a href="mailto:anne@diversitas-international.org">anne@diversitas-international.org</a>	Ecosystems, Biodiversity and Land Use; Changes in Atmospheric, Terrestrial and Marine Domains; Use of Resources and Pathways for Sustainable Development	Participation of scientists from Asia Pacific region to attend the Second DIVERSITAS Open Science Conference entitled: "Biodiversity and society: understanding connections, adapting to change" (DIVERSITAS OSC2), which will take place in Cape Town, S-Africa	Philippines, Japan, Indonesia, other Asia-Pacific countries	1.5 years	<b>15,000</b>	<b>N/A</b>	<b>15,000</b>	Funding recommended, however as the meeting is being held outside the APN region, provide the minimum standard travel grant of US\$15,000 to express strong support for DIVERSITAS and to ensure representation of the Asia-Pacific region at the meeting.

Proposal Reference Number	Project Title	Project Leader	Email Address	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	Funding (US\$)			Recommendations to the IGM
								2009/10 Funding awarded	2010/11 Funding requested	Maximum Funding expected	
<b>2008CB-FP09-Almoite</b>	Scaling-Up Agroforestry Promotion Towards Mitigating Climate Change in Southeast Asia	Dr. Orlando P. Almoite, Philippine Agroforestry Education and Research Network, University of the Philippines Los Baños, PHILIPPINES	<a href="mailto:opalmoite@yahoo.com">opalmoite@yahoo.com</a> <a href="mailto:dmmmsu.iawm@yahoo.com">dmmmsu.iawm@yahoo.com</a> <a href="mailto:ldgavina@yahoo.com">ldgavina@yahoo.com</a>	Climate; Crosscutting Issues and Science-Policy Linkages	Capacity building, exchange/sharing of knowledge and technical expertise, and public awareness programs about the potentials of Agroforestry in mitigating climate change in Southeast Asia.	Philippines, Thailand, Indonesia, Viet Nam, Lao PDR	1 year	<b>35,000</b>	<b>N/A</b>	<b>35,000</b>	Funding recommended with conditions that the policy-related activities be modified.
<b>2008CB-FP17-Walland</b>	Pacific Islands Climate Outlook Forum (PICOF): A Network Approach for Regional Climate Assessments	Dr. David Walland, Bureau of Meteorology, AUSTRALIA	<a href="mailto:d.walland@bom.gov.au">d.walland@bom.gov.au</a>	Climate; Crosscutting Issues and Policy Linkages	Development of a regional network approach to assess the relevant aspects of regional climate change, including observed changes and impacts, downscaling of climate change scenarios and the potential impacts of the projected climate change and facilitation.	Australia, New Zealand, USA, Fiji Islands, other island states in the South Pacific	1 year	<b>25,000</b>	<b>N/A</b>	<b>25,000</b>	Funding recommended at standard travel grant of US\$25,000
<b>2008CB-FP19-Li</b>	Inter-Agency Collaborative Technologies in Earth Observations (EO) for Global Change Research in the Asia-Pacific	Dr. Guoqing Li, Centre for Earth Observation and Digital Earth, CHINA	<a href="mailto:gqli@ceode.ac.cn">gqli@ceode.ac.cn</a>	Climate; Crosscutting Issues and Science-Policy Linkages	The target of this proposed project is to bring the experience and knowledge from CEOS/WGISS to the GCR scientists in the APN region, to discuss how to access and use the next generation EO information technology, and to find appropriate approaches to	China, Japan, Mongolia, Russian Federation, Republic of Korea, Thailand, USA	1 year	<b>38,000</b>	<b>N/A</b>	<b>38,000</b>	Funding recommended. APN invested USD10,000 in a seed grant to strengthen the proposal for resubmission. The proposal now demonstrates strong collaboration with institutions including ICSU-CODATA, WGISS, GEOSS and

Proposal Reference Number	Project Title	Project Leader	Email Address	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration on Countries Involved	Project Duration	Funding (US\$)			Recommendations to the IGM
								2009/10 Funding awarded	2010/11 Funding requested	Maximum Funding expected	
	Region: Full Proposal submitted following conditions of APN Seed Grant CBA2008-13NSG-Li				development.						ICSU-ROAP. Project considered important.
<b>2008CB-FP11-Sang-arun</b>	Promoting Sustainable Use of Waste Biomass in Cambodia, Lao People's Democratic Republic and Thailand: Combining Food Security, Bio-energy and Climate Protection Benefits	Dr. Janya Sang-arun, Institute for Global Environmental, JAPAN	<a href="mailto:sang-arun@iges.or.jp">sang-arun@iges.or.jp</a>	Climate; Use of Resources and Pathways for Sustainable Development; Crosscutting Issues and Science-Policy Linkages	A research to identify the suitability of organic waste management options in terms of technical and economic conditions and their benefits for climate change mitigation, livelihoods and self-reliance in Lao PDR, Cambodia, and Thailand.	Japan, Cambodia, Lao PDR, Thailand	2 years	<b>30,000</b>	<b>36,700</b>	<b>66,700</b>	Funding recommended with conditions that the travel budget be re-addressed.
<b>2008CB-FP12-Togtohyun</b>	Dryland Development Paradigm (DDP) Application for the Most Vulnerable to Climate and Land Use Change of Pastoral Systems in the	Dr. Chuluun Togtohyun, Institute for Dryland Sustainability (IDS), National University of Mongolia, MONGOLIA	<a href="mailto:chuluun@nrel.colostate.edu">chuluun@nrel.colostate.edu</a>	Climate; Ecosystems, Biodiversity and Land Use	Improving the adaptive capacity to climate and land use changes of people living in the Southern Khangai Mountains, Mongolia and making the Dryland Development Paradigm (DDP) based policy recommendation.	Mongolia	2 years	<b>30,000</b>	<b>30,000</b>	<b>60,000</b>	Funding recommended. Considered important for the region and, compared with the other lower ranked proposals, good investment of APN funds.

Proposal Reference Number	Project Title	Project Leader	Email Address	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	Funding (US\$)			Recommendations to the IGM
								2009/10 Funding awarded	2010/11 Funding requested	Maximum Funding expected	
	Southern Khangai Mountains of Mongolia (DDPPaS)										
<b>COMPREHENSIVE RESEARCH PROPOSALS</b>											
<b>2008CRP-FP03-Weber</b>	Vulnerability Mapping as Policy Tool in Developing Countries	Dr. Eberhard Weber, The University of the South Pacific, FIJI	<a href="mailto:weber_e@usp.ac.fj">weber_e@usp.ac.fj</a>	vulnerability, people and places	Investigates vulnerability of people related to Climate Change through vulnerability mapping. It focuses on people's vulnerabilities, the ways they sustain their livelihoods and how they cope with / adapt to adverse events.	Fiji, India, Thailand	3 years	<b>50,000</b>	<b>70,000</b>	<b>145,000</b>	Funding recommended. Good regional collaboration; proponent is very active in the GC community. Activities are very important for the Pacific. Year 3 funding requested is US\$25,000
<b>2008CRP-FP04-Pereira</b>	Strengthening Capacity for Policy Research on Mainstreaming Adaptation to Climate Change in Agriculture and Water Sectors	Dr. Joy Jacqueline Pereira, Institute for Environment and Development (LESTARI), Universiti Kebangsaan Malaysia (UKM), MALAYSIA	<a href="mailto:joy@ukm.my">joy@ukm.my</a>	climate change, adaptation, agriculture and water resources	Strengthening the research capacity on mainstreaming climate change adaptation concerns into agricultural and water policies and creating a consortium for adaptation policy research in Asia (ARNAP: Adaptation Research and Policy Network for Asia and the Pacific).	Malaysia, Viet Nam, India, Japan	3 years	<b>70,000</b>	<b>95,000</b>	<b>250,000</b>	Funding recommended. Food and water security is a very important issue for the region, project leader is very capable researcher; strong institutional collaboration. Some budget issues that need to be addressed. Year 3 funding requested is US\$85,000

## ARCP Review Information

The task of the IGM is to consider the recommendations made by the SPG Pre-Meeting (who meet on the 17<sup>th</sup> March) for continuing multi-year projects and for new ARCP projects from the 2008 Annual Regional Call for Proposals.

### **1. Available Budget for 2009/10**

The proposed budget plan for the fiscal year 2009/10 indicates that **US\$720,000** is available for ARCP projects.

### **2. Review and Recommendation of Multi-Year Projects**

Of the 2008/9 ARCP projects, 9 are multi-year projects that wish to continue project activities for a further year in 2009/10. These projects are seeking additional funding for one more year in 2009/10. Summary details are outlined in the spreadsheet ([Appendix 1](#)).

### **3. Review and Recommendation of New ARCP projects**

Summary details of the 18 proposals received and being considered for funding recommendation by the SPG are presented in the attached spreadsheet ([Appendix 2](#)) for your information. Proposals from this summary sheet selected by the SPG for recommendation to the IGM for funding will be presented on day 3 under the present Item 22. *Please note that, during the presentation made by the SPG Co-Chairs under Item 22, the spreadsheets will be re-distributed in ranking order highlighting recommendations and SPG comments.*

### 2008/09 ARCP Continuing Multi-Year Projects: Recommended for 2009/2010 Funding

Proposal Reference Number	Project Title	Project Leader	Email	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	Funding (US\$)			Recommendations to the IGM
								2008/9 Funding Awarded	2009/10 Funding Requested	2009/10 Funding Awarded	
<b>ARCP2008-13NMY-Fukami</b>	Flood Risk Management Demonstration Project (phase 1) Under the Asian Water Cycle Initiative for the Global Earth Observation System of Systems (FRM/AWCI /GEOSS)	Mr. Kazuhiko Fukami, Leader of Hydrologic Engineering Research Team, ICHARM, Public Works Research Institute (PWRI), JAPAN	<a href="mailto:k-fukami@pwri.go.jp">k-fukami@pwri.go.jp</a>	Crosscutting-Issues and Science-Policy Linkages	Provide methodologies, tools and basic data sets to derive such required information to assess flood risks and evaluate mitigation options, at the same time provide data and tools for scientists and practitioners to make best possible forecasts for operational flood management through data integration and downscaling.	Australia, India, Indonesia, Japan, Pakistan, Philippines, Sri Lanka and Viet Nam	2 years	<b>42,000</b>	<b>42,000</b>	<b>42,000</b>	Funding recommended at the level requested. Project is progressing well.
<b>ARCP2008-14NMY-Okladnikov</b>	Human Impact on Land-cover Changes in the Heart of Asia	Dr. Igor Okladnikov, Siberian Center for Environmental Research and Training/ Institute for Monitoring of Climatic and Ecological	<a href="mailto:oig@scer.t.ru">oig@scer.t.ru</a> , <a href="mailto:oig@ngs.ru">oig@ngs.ru</a>	Climate: Changes in Atmospheric, Terrestrial and Marine Domains; Crosscutting-Issues and Science-Policy Linkages	Understanding human impact on land-cover and capacity to monitor change to address Global Change and ensure sustainable development.	Russian Federation, USA, Mongolia	2 years	<b>40,000</b>	<b>18,000</b>	<b>18,000</b>	Funding recommended at the level requested, although the progress report could have been more detailed. Note in the award letter that the APN looks forward to seeing some really good outcomes in fully

Proposal Reference Number	Project Title	Project Leader	Email	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	Funding (US\$)			Recommendations to the IGM
								2008/9 Funding Awarded	2009/10 Funding Requested	2009/10 Funding Awarded	
		Systems ,RUSSIAN FEDERATION									detailed final report according to the original objectives.
<b>ARCP2008-15NMY-Nikitina</b>	Reducing Water Insecurity through Stakeholder Participation in River Basin Management in the Asia-Pacific	Dr. Elena Nikitina, Director, EcoPolicy Research and Consulting, Moscow, RUSSIAN FEDERATION	<a href="mailto:elenanikitina@bk.ru">elenanikitina@bk.ru</a>	Climate; Ecosystems, Biodiversity and Land Use; Use of Resources and Pathways for Sustainable Development ; Crosscutting Issues and Policy Linkages	Combination of human response options (scientific, engineering, institutional, financial, social, economic) and partnerships (domestic and transboundary), as a powerful tool in good water governance and a precondition for effective policy process towards sustainable development.	Australia, China, Russian Federation, Thailand, Viet Nam	2 years	<b>45,000</b>	<b>40,000</b>	<b>40,000</b>	Funding is recommended at level requested. Project is progressing very well and this has the potential of being a good APN success story.



Proposal Reference Number	Project Title	Project Leader	Email	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	Funding (US\$)			Recommendations to the IGM
								2008/9 Funding Awarded	2009/10 Funding Requested	2009/10 Funding Awarded	
<b>ARCP2008-16NMY-Shrestha</b>	Impacts of Global Change on the Dynamics of Snow, Glaciers and Runoff over the Himalayan Mountains and Their Consequences for Highland and Downstream Regions.	Dr. Kedar Lal Shrestha, Institute for Development and Innovation, NEPAL	<a href="mailto:kshrestha@wlink.com.np">kshrestha@wlink.com.np</a>	Climate; Use of Resources and Pathways for Sustainable Development ; Crosscutting-Issues and Science-Policy Linkages	Assessment of the impacts of climate change on dynamics of snow, glaciers and runoff over the Himalayan mountains and their consequences for people's livelihood as well as the economy and societies in the upland and downstream regions of the Himalayan river system.	China, India, Nepal, Pakistan	2 years	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	Funding is recommended at level requested. Project is progressing well although there are some technical issues on running climate models in Nepal. Suggest whether the models can be run in one of the other collaborating countries.
<b>ARCP2008-17NMY-Sellers</b>	Peri-Urban Development and Environmental Sustainability: Examples from China and India	Dr. Jefferey Sellers, Geography and Public Policy, University of Southern California, UNITED STATES	<a href="mailto:sellers@usc.edu">sellers@usc.edu</a>	Ecosystems, Biodiversity and Land use	Use of Models of expected urban developmental trajectories and assessments of alternative policies and institutions to contribute to capacity building that can make urbanization more sustainable.	Australia, China, Singapore, USA, India (agreed cooperation with ARCP2007-13NMY-Li)	2 years	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	Funding is recommended at the level requested. Good progress report. Remind the project leader of whether collaboration with another APN project was successful and if it is contributing to the present project objectives.

Proposal Reference Number	Project Title	Project Leader	Email	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	Funding (US\$)			Recommendations to the IGM
								2008/9 Funding Awarded	2009/10 Funding Requested	2009/10 Funding Awarded	
<b>ARCP2008-18NMY-Braimoh</b>	Managing Ecosystems Services in Asia: A Critical Review of Experiences in Montane Upper Tributary Watersheds	Dr. Ademola Braimoh, Global Land Project, Sapporo Nodal Office, Hokkaido University, JAPAN	<a href="mailto:abraimoh@glp.hokudai.ac.jp">abraimoh@glp.hokudai.ac.jp</a>	Ecosystems, Biodiversity and Land use; Crosscutting-Issues and Science-Policy Linkages	Framework development for analyzing information on the production and delivery of ecosystem services that will be inventoried, valued, mapped and the costs of their conservation be assessed.	Indonesia, Thailand, China, Japan	2 years	<b>45,000</b>	<b>45,000</b>	<b>45,000</b>	Funding is recommended at the level requested. Excellent progress report.
<b>ARCP2008-19NMY-Zou</b>	Temperature Sensitivity of Soil CO <sub>2</sub> Efflux as Altered by Rubber Tree Plantations in Southeast Asia	Dr. Xiaoming Zou, Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences, CHINA	<a href="mailto:xzou2000@yahoo.com">xzou2000@yahoo.com</a>	Climate; Ecosystems, Biodiversity and Land Use; Use of Resources and Pathways for Sustainable Development ; Crosscutting-Issues and Science-Policy Linkages	Effect of land conversion from tropical forests to rubber plantations on the cycling of carbon in Southeast Asia, and how biotic factors would regulate the temperature sensitivity of soil respiration to global climate warming in undisturbed tropical forests and rubber plantations.	China, Viet Nam, Lao PDR	2 years	<b>40,000</b>	<b>30,000</b>	<b>30,000</b>	Funding is recommended at level requested. Lack of progress outwith the Project leader's control; funding for Year 2 to be secured at this time, but not remitted until all year one deliverables are completed.

Proposal Reference Number	Project Title	Project Leader	Email	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	Funding (US\$)			Recommendations to the IGM
								2008/9 Funding Awarded	2009/10 Funding Requested	2009/10 Funding Awarded	
<b>ARCP2008-20NMY-Iqbal</b>	Assessment of Food and Water Security in South-Asia under Changing Climate Scenario Using Crop Simulation and Water Management Models, and Identification of Appropriate Strategies to Meet Future Demands	Dr. M Mohsin Iqbal, Head Agriculture Section, Global Change Impact Studies Centre (GCISC), Islamabad, PAKISTAN	<a href="mailto:mohsin.iqbal@gcisc.org.pk">mohsin.iqbal@gcisc.org.pk</a>	Climate; Use of Resources and Pathways for Sustainable Development	Assessment food and water security in South Asian countries for sustainable development under changing climate and help national planners and policy makers to introduce appropriate strategic corrective measures, as necessary	Pakistan, Nepal, Bangladesh, USA	2 years	<b>40,000</b>	<b>30,000</b>	<b>30,000</b>	Funding is conditionally recommended at level requested. However, the fundamental problems with the lack of contribution from the 2 countries cited needs to be addressed and the APN recommends withdrawal of India and Nepal. The budget items to be re-allocated to other areas of the project and resubmitted for subsequent SPG Subcommittee review and approval.
								<b>Total awarded</b>	<b>285,000</b>		The SPG recommends the transfer of the US\$65,000 to new ARCP proposals.

### 2008 ARCP Proposals Recommended for 2009/2010 Funding

Proposal Reference Number	Project Title	Project Leader	Email	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	Funding (US\$)			Recommendations to the IGM
								2009/10 Funding Awarded	2010/11 Funding Requested	Maximum Funding Expected	
2008ARCP-FP05-Skole	Developing Small-holder Agroforestry Carbon Offset Protocols for Carbon Financial Markets – Twinning Sustainable Livelihoods and Climate Mitigation	Dr. David L. Skole, Michigan State University, UNITED STATES OF AMERICA (USA)	<a href="mailto:skole@msu.edu">skole@msu.edu</a>	Climate; Ecosystems, Biodiversity and Land Use; Use of Resources and Pathways for Sustainable Development	Development of small-holder agroforestry protocols for the Chicago Climate Exchange working directly with farmers and communities in Laos, Thailand and Vietnam.	USA, Lao PDR, Viet Nam, Thailand	1 year	40,000	N/A	40,000	Funding recommended. Excellent proposal. Work important for the region.
2008ARCP-FP09-Gautam	Assessment of Role of Community Forests (CFs) in CO2 Sequestration, Biodiversity, and Land Use Change	Dr. Chinta Mani Gautam, Nepal Development Research Institute (NDRI), NEPAL	<a href="mailto:gautamcm@gmail.com">gautamcm@gmail.com</a> <a href="mailto:info@ndri.org.np">info@ndri.org.np</a>	Climate; Ecosystems, Biodiversity and Land Use	Estimation of CO2 sequestration and document species diversity in selected CFs and analyse the role of CF in land use changes.	Nepal, Indonesia, Japan	1 year	38,050	N/A	38,050	Funding recommended. There is no established methodology currently on carbon dioxide sequestration in community forests, and this approach could be interesting for the region.

Proposal Reference Number	Project Title	Project Leader	Email	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	Funding (US\$)			Recommendations to the IGM
								2009/10 Funding Awarded	2010/11 Funding Requested	Maximum Funding Expected	
2008ARCP-FP12-Roy	Role of Experiments in Sustainability Transitions in Asia	Prof. Joyashree Roy, Global Change Programme, Jadavpur University, INDIA	<a href="mailto:jroy@cal2.vsnl.net.in">jroy@cal2.vsnl.net.in</a>	Use of Resources and Pathways for Sustainable Development ; Crosscutting Issues and Science-Policy Linkages	Scoping workshops to develop a full international research program on the role of innovative development project level experiments in 'sustainability transitions' in Asia and to understand how experiments can come to influence Asian development pathways	India, Philippines, Thailand, USA	1 year	40,000	N/A	40,000	Funding recommended. Strong linkages with global change programmes.
2008ARCP-FP16-Sampson	Biochar for Carbon Reduction, Sustainable Agriculture and Soil Management (BIOCHARM)	Dr. Stephan M. Haefele, International Rice Research Institute, PHILIPPINES	<a href="mailto:s.haefele@cgiar.org">s.haefele@cgiar.org</a>	Use of Resources and Pathways for Sustainable Development	A research on identifying the potentials of Biochar sources to reduce CO2 emissions and exploring opportunities for acquiring carbon credits from biochar for Icoal farmers and char produces through Clean Development Mechanism or voluntary schemes as appro	Cambodia, Philippines, India	1 year	40,000	N/A	40,000	Funding recommended. There is a growing interest in biochar for carbon reduction in the region and work is important at the global level.

Proposal Reference Number	Project Title	Project Leader	Email	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	Funding (US\$)			Recommendations to the IGM
								2009/10 Funding Awarded	2010/11 Funding Requested	Maximum Funding Expected	
2008ARCP-FP02-Sthiannopkao	Collaborative Research on Sustainable Urban Water Quality Management in Southeast Asian countries: Analysis of Current Status (comparative study) and Develop a Strategic Plan for Sustainable Development	Dr. Suthipong Sthiannopkao, Gwangju Institute of Science and Technology (GIST), REPUBLIC OF KOREA (ROK)	<a href="mailto:suthi@gist.ac.kr">suthi@gist.ac.kr</a> <a href="mailto:suthisuthi@hotmail.com">suthisuthi@hotmail.com</a>	Use of Resources and Pathways for Sustainable Development ; Crosscutting Issues and Science-Policy Linkages	A comparative study in SEA on (1) current and future of urbanization expansion; (2) current water management policies; (3) water quality impacts caused by urban activities and climate change and (4) development of a strategic plan including capacity build	ROK, Cambodia, Indonesia, Thailand , Viet Nam	2 years	40,000	40,000	80,000	Funding recommended. Suggest that the proponent identifies criteria for sites selection or, if the sites have been selected, confirm the criteria used.
2008ARCP-FP11-How	Integrated Prediction of Dipterocarp Species Distribution in Borneo for Supporting Sustainable Use and Conservation Policy Adaptation	Dr. Phua Mui How, School of International Tropical Forestry, Universiti Malaysia, MALAYSIA	<a href="mailto:pmh@ums.edu.my">pmh@ums.edu.my</a>	Ecosystems, Biodiversity and Land Use; Crosscutting Issues and Science-Policy Linkages	Filling the gap of missing information about the dipterocarp species distribution and conservation gap at a landscape scale through an integrated approach that combines remote sensing, GIS and field data.	Malaysia, Indonesia, Japan	2 years	35,350	39,650	70,700	Funding recommended. REDD issue to be addressed to increase value for the region.

Proposal Reference Number	Project Title	Project Leader	Email	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	Funding (US\$)			Recommendations to the IGM
								2009/10 Funding Awarded	2010/11 Funding Requested	Maximum Funding Expected	
2008ARCP-FP13-Marambe	Vulnerability of Home Garden Systems to Climate Change and its Impacts on Food Security in South Asia	Prof. Buddhi Marambe, Faculty of Agriculture, University of Peradeniya, SRI LANKA	<a href="mailto:bmarambe@pdn.ac.lk">bmarambe@pdn.ac.lk</a>	Climate; Ecosystems, Biodiversity and Land Use; Use of Resources and Pathways for Sustainable Development ; Crosscutting Issues and Science-Policy Linkages	Assessment of the degree of vulnerability and impacts of changing climates in home garden systems in South Asia using bio-economic models. Obtaining inventories of trees, crops and farm animals to establish current status.	Sri Lanka, India, Bangladesh, USA	2 years	35,000	40,000	75,000	Funding recommended at US\$35,000 for year 1 to see how it develops. Better definition of the home garden systems is needed.
2008ARCP-FP14-Wang	Building Asian Climate Change Scenarios by Multi-Regional Climate Models Ensemble	Dr. Shuyu Wang, Institute of Atmospheric Physics, Chinese Academy of Sciences, CHINA	<a href="mailto:wsy@tea.ac.cn">wsy@tea.ac.cn</a>	Climate	Building of high resolution climate change scenarios for Asia for 2040-2070 using nine regional climate models' outputs and develop the envelope analysis of ensemble for Asian regional climate projection with the full evaluation and assessment of uncertainty	China, ROK, Japan, Australia, USA, Thailand	3 years	39,760	40,000	79,760	Funding recommended. Good collaboration and linkages with other institutions and good engagement with the GC Community (MAIRS/ESSP).

Proposal Reference Number	Project Title	Project Leader	Email	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	Funding (US\$)			Recommendations to the IGM
								2009/10 Funding Awarded	2010/11 Funding Requested	Maximum Funding Expected	
2008ARCP-FP15-Luck	The Effects of Climate Change on Pests and Diseases of Major Food Crops in the Asia Pacific Region	Dr. Joanne Elizabeth Luck, Cooperative Research Centre for National Plant Biosecurity, AUSTRALIA	<a href="mailto:jo.luck@dpi.vic.gov.au">jo.luck@dpi.vic.gov.au</a>	Climate; Use of Resources and Pathways for Sustainable Development	Investigating the impacts of climate change on the biology and distribution of key agricultural pests and diseases in the Asia Pacific region, encompassing key sites in India and Bangladesh and its implications on cropping.	Australia, India, Bangladesh	2 years	78,240	0	78,240	Funding recommended. Builds and expands on former APN funded project. Allocate funds for second year from 2009 budget to ensure manageable "mortgage" of continuing projects in 2010. Year 1: US\$38,720; Year 2: US\$39,520
2008ARCP-FP17-Schaefer	Quantifying the Role of Dead Wood in Carbon Sequestration	Dr. Douglas Schaefer, Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences, CHINA	<a href="mailto:xiedaoan@xtbg.ac.cn">xiedaoan@xtbg.ac.cn</a>	Climate; Ecosystems, Biodiversity and Land Use	Use of advanced techniques of respiration monitoring in quantifying the role of dead wood in carbon sequestration, coupled with woody material manipulations in a variety of Asian forests, and under a wide range of soil conditions.	China, Lao PDR, Viet Nam	2 years	39,270	39,730	79,000	Funding recommended. carbon sequestration in forests important for the region.



Proposal Reference Number	Project Title	Project Leader	Email	Relevance to 2SP Science Agenda	Project Summary	Regional Collaboration Countries Involved	Project Duration	Funding (US\$)			Recommendations to the IGM
								2009/10 Funding Awarded	2010/11 Funding Requested	Maximum Funding Expected	
2008ARCP-FP18-Bai	Asian Coastal Ecosystems: An Integrated Database and Information Management System (DIMS) for Assessing Impact of Climate Change and its Appraisal	Dr. V. Ramani Bai, University of Nottingham Malaysia Campus, MALAYSIA	<a href="mailto:Ramani-Bai.V@nottingham.edu.m">Ramani-Bai.V@nottingham.edu.m</a>	Climate	Development of an Integrated Database and Information Management System (DIMS) for understanding Asian Coastal region's ecosystems.	Malaysia, India, Singapore	2 years	40,000	40,000	80,000	Funding recommended as this could be a good model for future. Data quality needs to be assured for all data including metadata. However, condition that second year of funding is really on the premise that the goals of the first year are fully achieved and project makes significant progress.

## Hosting of Inter-Governmental Meetings (IGMs)

The process of seeking potential IGM hosts usually starts by sending a letter from the APN Secretariat Director to member countries asking for their willingness to host. A list of all former IGM locations is provided below for your information.

### Locations of IGM (and associated meetings) since 1996

1. 1996 – ***Chiangmai, Thailand (SEA)***
  - 1<sup>st</sup> IGM, 25-26 March
2. 1997 – ***Tokyo, Japan (TEA)***
  - 2<sup>nd</sup> SPG Meeting, 24-26 March
  - 2<sup>nd</sup> IGM, 27-28 March
3. 1998 – ***Beijing, China (TEA)***
  - 3<sup>rd</sup> IGM, 11-13 March
4. 1999 – ***Kobe, Japan (TEA)***
  - 4<sup>th</sup> IGM, 18-20 March
5. 2000 – ***Islamabad, Pakistan (SA)***
  - 5<sup>th</sup> SPG Meeting, 26-27 March
  - 5<sup>th</sup> IGM, 29-30 March
6. 2001 – ***Jeju Island, Republic of Korea (TEA)***
  - Small Group Meeting, 18 March
  - 6<sup>th</sup> SPG Meeting, 19-20 March
  - 6<sup>th</sup> IGM, 22-23 March
  - SC Meeting, 24 March
7. 2002 – ***Manila, Philippines (SEA)***
  - Small Group Meeting, 17 March
  - 7<sup>th</sup> SPG Meeting, 10-11 March
  - 7<sup>th</sup> IGM, 13-14 March
  - SC Meeting, 15 March
8. 2003 – ***Hanoi, Viet Nam (SEA)***
  - Small Group Meeting, 9 March
  - 8<sup>th</sup> IGM and SPG Meeting, 10-14 March
  - 1<sup>st</sup> Ad Hoc RDC Informal Meeting, 12 March
9. 2004 – ***Canberra, Australia (Oceania)***
  - Small Group Meeting, 21 March
  - 9<sup>th</sup> SC Meeting, 25 March
  - 9<sup>th</sup> IGM/SPG Meeting, 22-24 March
10. 2005 – ***Kobe, Japan (TEA)***
  - 11<sup>th</sup> SC Meeting, 10 April
  - 2<sup>nd</sup> CSC Meeting, 11 April
  - 10<sup>th</sup> IGM/SPG Meeting, 12-14 April
11. 2006 – ***Bangkok, Thailand (SEA)***
  - 1<sup>st</sup> SPG-SC Meeting, 20 March
  - 3<sup>rd</sup> SC Meeting, 21 March
  - 4<sup>th</sup> CDC Meeting, 21 March
  - 11<sup>th</sup> Joint IGM/SPG Meeting, 22-24 March
12. 2007 – ***Honolulu, USA (Pacific)***
  - 5<sup>th</sup> SC Meeting, 17 March
  - 2<sup>nd</sup> SPG-SC Meeting, 18 March
  - 5<sup>th</sup> CDC Meeting, 19 March
  - 12<sup>th</sup> SPG Pre-Meeting, 20 March
  - 12<sup>th</sup> Joint IGM/SPG Meeting, 21-23 March
  - 6<sup>th</sup> SC Meeting 23 March
13. 2008 – ***Relocated from Sri Lanka to Kobe, Japan (TEA)***
  - 3<sup>rd</sup> SPG-SC Meeting, 15 March
  - 7<sup>th</sup> CDC Meeting, 16 March

- 8<sup>th</sup> SC Meeting, 17 March
  - 13<sup>th</sup> SPG Pre-Meeting, 17 March
  - 13<sup>th</sup> Joint IGM/SPG Meeting, 18-20 March
  - 9<sup>th</sup> SC Meeting, 20 March
14. 2009 – ***Kuala Lumpur, Malaysia (SEA)***
- 4<sup>th</sup> SPG-SC Meeting, 16 March
  - 8<sup>th</sup> CDC Meeting, 16 March
  - 4<sup>th</sup> SPG Pre-Meeting, 17 March
  - 11<sup>th</sup> SC Meeting, 17 March
  - 14<sup>th</sup> Joint IGM/SPG Meeting, 18-20 March
  - 12<sup>th</sup> SC Meeting, 20 March

#### **Locations of other APN Meetings**

1. 1<sup>st</sup> SPC Meeting – ***Tokyo, Japan*** (25-26 January 1996)
2. 1<sup>st</sup> SPG Meeting – ***Kuala Lumpur, Malaysia*** (29-30 August 1996)
3. 3<sup>rd</sup> SPG Meeting – ***Canberra, Australia*** (19-21 January 1998)
4. 4<sup>th</sup> SPG Meeting – ***Jakarta, Indonesia*** (2-4 February 1999)
5. 1<sup>st</sup> SC Meeting – ***Honolulu, USA*** (3-4 December 2000)
6. 4<sup>th</sup> SC Meeting – ***Manila, Philippines*** (16-17 December 2001)
7. 6<sup>th</sup> SC Meeting – ***Kuala Lumpur, Malaysia*** (9-10 December 2002)
8. 8<sup>th</sup> SC Meeting – ***Wellington, New Zealand*** (11-12 December 2003)
9. 2<sup>nd</sup> SC Meeting – ***Tokyo, Japan*** (19-20 November 2005)
10. 3<sup>rd</sup> CSC Meeting – ***Tokyo, Japan*** (18-19 November 2005)
11. 4<sup>th</sup> SC Meeting and Workshop on the New Liaison Model – ***Jakarta, Indonesia*** (24-26 August 2006)
12. 1<sup>st</sup> SEA Sub-Regional Committee Meeting – ***Jakarta, Indonesia*** (20-21 August 2007)
13. 7<sup>th</sup> SC and 6<sup>th</sup> CDC Meeting – ***Kobe, Japan*** (4-5 October 2007)
14. 10<sup>th</sup> SC Meeting – ***Manila, Philippines*** (6-7 October 2008)

#### **Host of the 15<sup>th</sup> IGM**

On 5<sup>th</sup> February 2009, the Republic of Korea responded to the Secretariat positively by offering to host the 15<sup>th</sup> IGM/SPG Meeting in 2010.

#### **Host of the 16<sup>th</sup> IGM**

The APN welcomes interested member countries to host future IGMs, particularly the 16<sup>th</sup> IGM in 2011.

#### **Sub-regions**

*SA – South Asia*

*SEA – Southeast Asia*

*TEA – Temperate East Asia*

#### **APN Groups/Committees**

*CDC – Capacity Development Committee*

*CSC – CAPaBLE Standing Committee*

*RDC – Resources Development Committee*

*SC – Steering Committee*

*SPC – Scientific Planning Committee*


*SPG – Scientific Planning Group*

*SPG-SC – Scientific Planning Group Sub-Committee*



## **SECTION III**

### **Presentations during the Informal Dialogue**

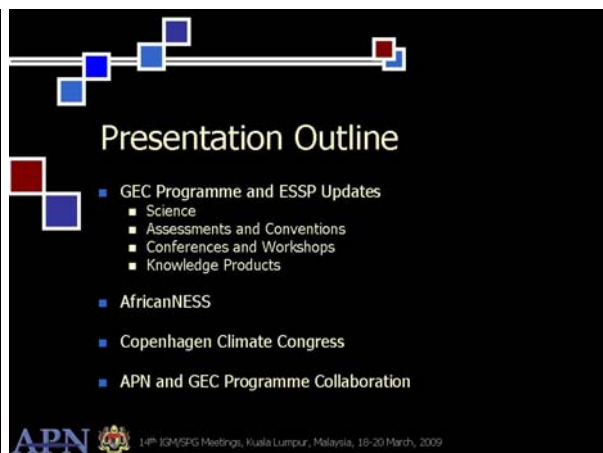


**APN and GEC Informal Dialogue**

Presentation of GEC Research Programmes (DIVERSITAS, IGBP, IHDP, WCRP) and their Partnership in Earth System Science (ESSP)

14<sup>th</sup> Inter-Governmental Meeting & Scientific Planning Group Meeting  
Kuala Lumpur, Malaysia  
18-20 March 2009

Logos: DIVERSITAS, GLOBAL CHANGE, IGBP, IHDP, WCRP



**Presentation Outline**

- GEC Programme and ESSP Updates
  - Science
  - Assessments and Conventions
  - Conferences and Workshops
  - Knowledge Products
- AfricanNESS
- Copenhagen Climate Congress
- APN and GEC Programme Collaboration

APN 14<sup>th</sup> IGM/SPG Meetings, Kuala Lumpur, Malaysia, 18-20 March, 2009



**DIVERSITAS**  
an international programme of biodiversity science

APN 14<sup>th</sup> IGM/SPG Meetings, Kuala Lumpur, Malaysia, 18-20 March, 2009



**International Year of Biodiversity: 2010**

- 2 on-going collaborations with CBD for COP10 (Japan, Oct 2010)
  - Beyond 2010: toward a new set of biodiversity indicators (policy paper by SC-DIVERSITAS; lead: G Mace)
  - Contribution to GBO-3: synthesis and critical analysis of global and regional biodiversity scenarios (lead: P Leadley)

In 2010, the SC-DIVERSITAS will meet in Japan (22-26 March 2010; local host: T Yahara)



**Science-Policy: IPBES**  
Intergovernmental Science-Policy Platform on Biodiversity & Ecosystem Services

- UNEP Global Ministerial Environment Forum (Feb 09) just approved a second intergovernmental and multi-stakeholder meeting (June 2009) to discuss all aspects of the establishment of IPBES.
- DIVERSITAS proposes to play a role in part of the work programme (on emerging issues).

78 countries  
25 organisations

14<sup>th</sup> IGM/SPG Meetings, Kuala Lumpur, Malaysia, 18-20 March, 2009



**GEO BON**

- GEO BON (GEO Biodiversity Observation Network) is a new global partnership to help collect, manage, analyse & report data relating to the status of the world's biodiversity
- DIVERSITAS and NASA mandated by GEO to lead planning phase of GEO BON.
- J-BON (Japan) under establishment
- Asia-Pacific GEO BON will be discussed soon (Kuala Lumpur, July 09).

Global Earth Observation System of Systems (GEOSS)

**2nd DIVERSITAS Science Conference**  
**"Biodiversity and Society: Understanding connections, adapting to change"**

13-16 October 2009  
 Cape Town, S-Africa

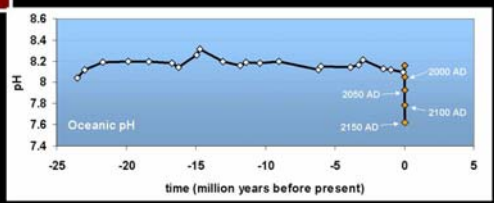
-Symposiums: 110 received; 20 selected  
 -Call for abstracts: \*\*deadline: **31 March 2009\*\***

Thanks to APN for spreading the message!




APN 14th IGM/SPG Meetings, Kuala Lumpur, Malaysia, 18-20 March, 2009


**the Oceans are Acidifying Fast**  
 at a rate and to a level not experienced by marine organisms for at least 20MY



Avoiding Dangerous Climate Change (Turley et al 2006)

APN 14th IGM/SPG Meetings, Kuala Lumpur, Malaysia, 18-20 March, 2009

**Production of Food and Energy**  
 have >2x input of fixed N to terrestrial ecosystems



APN 14th IGM/SPG Meetings, Kuala Lumpur, Malaysia, 18-20 March, 2009

**WATER IN A CHANGING CLIMATE: PROGRESS IN LAND-ATMOSPHERE INTERACTIONS AND ENERGY/WATER CYCLE RESEARCH**

Global Energy and Water Cycle Experiment  
**GEWEX**  
 WCRP

6th INTERNATIONAL SCIENTIFIC CONFERENCE ON THE GLOBAL ENERGY AND WATER CYCLE  
 24-28 AUGUST 2009 MELBOURNE, AUSTRALIA

2nd INTEGRATED LAND ECOSYSTEM-ATMOSPHERE PROCESSES STUDY SCIENCE CONFERENCE  
**ILEAPS**

Descriptions of the Conferences and Sessions

- Sixth International Scientific Conference on the Global Energy and Water Cycle
- Second ILEAPS Science Conference
- Joint GEWEX/ILEAPS Sessions

[/www.gewex.org/2009gewex\\_ileaps\\_conf.html](http://www.gewex.org/2009gewex_ileaps_conf.html)

APN 14th IGM/SPG Meetings, Kuala Lumpur, Malaysia, 18-20 March, 2009

**Future GLOBAL IGBP CHANGE Activities**

- 2009 IGBP SC meeting Otaru, Japan (April)
- 2009-2012 IGBP Synthesis & Integration (ongoing roll-out of synthesis publications)
- 2012 IGBP Open Science Conference

APN 14th IGM/SPG Meetings, Kuala Lumpur, Malaysia, 18-20 March, 2009



## Human Dimensions of Global Environmental Change



### New Science Projects and Initiatives

- Earth System Governance (ESG) – new IHDP core project
  - Governance as system of formal and informal rules, rule-making systems, and actor-networks at all levels of human society
  - People as drivers of change steering societies towards preventing, mitigating, and adapting to earth system transformation
- Integrated Risk Governance (IRG) - new IHDP pilot project
  - Dealing with risks that exceed current coping capacities of systems and societies
  - Studying entry and exit transitions within the dynamics of socio-ecological systems
- Knowledge, Learning and Societal Change Initiative (KLSC)
  - Studying societal change towards sustainable practice
  - Understanding the roles of production and communication of knowledge and individual or collective learning

### IHDP Capacity Development International Human Dimensions Workshop 2008

12-15th October 2008, New Delhi

- Largest IHDP so far, 5 workshops on
  - Transitions to Sustainability through System Innovation
  - Vulnerability, Resilience, Adaptation
  - Global Environmental Change and Human Health
  - From Research to Social Change: Ecosystem Services
  - Capacity Development in Adaptive Water
- 68 Participants from 40 Countries (29% Asia)
- 15 APN-funded scholars

### IHDP Open Meeting 2009 Social Challenges of Global Change

26th-30th April 2009, Bonn

- The Science
  - 1142 abstracts reviewed
  - 814 paper and posters expected
  - 120 sessions planned
- The Delegates
  - 800 delegates expected
  - 505 registrations completed
  - around 30% developing countries
  - around 38% female presenters
- Young Scholars
  - 175,000 USD raised for stipends
  - 140 stipends granted/expected
  - 14 APN-funded scholars

## WCRP Asian Monsoon Activities

World Climate Research Programme

- WCRP International Monsoon Study initiatives
  - Asian Monsoon Years 2007-12
    - Coordinates some 24 national and multinational activities (including modelling activities under WCRP GEWEX and CLIVAR) to improve monsoon prediction for societal benefit.
  - Monsoon Intra-Seasonal Oscillation
    - Project on reproduction and prediction of MISO proposed as outcome of 2nd pan-WCRP Monsoon Workshop (Beijing, Aug 2009)
    - Will link to studies of the MJO under the WCRP/WWRP Year of Tropical Convection and ISO field studies coordinated through CLIVAR's AAMP

National programs contributing to AMY

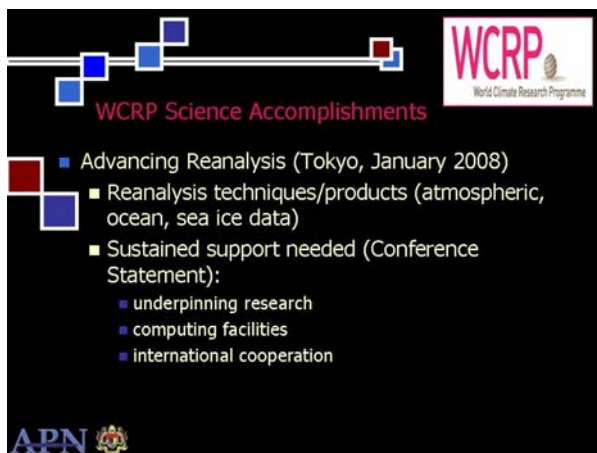
[www.wcrp-amy.org](http://wcrp-amy.org) <http://wcrp.wmo.int>

## WCRP Asian Monsoon Activities

World Climate Research Programme

- CLIVAR Asian Australian Monsoon Panel
  - Priorities - monsoon prediction
    - Assessment of multi-model ensemble runs, including, for the future, key WCRP coordinated seasonal and decadal prediction experiments
    - Improved understanding of intraseasonal variations and their impacts
    - Extreme weather/climate in monsoon regions
    - Climate change projections - monsoon regional impacts
    - [www.clivar.org/organization/aamp/aamp.php](http://www.clivar.org/organization/aamp/aamp.php)
  - GEWEX Monsoon Asian Hydro-Atmosphere Scientific Research and prediction Initiative (MAHASRI)
    - Component of GEWEX CEOP; led by Jun Matsumoto
    - 4 regional components: NE Asia, Tibet/Himalaya, E...





**WCRP Science Accomplishments**

- Advancing Reanalysis (Tokyo, January 2008)
  - Reanalysis techniques/products (atmospheric, ocean, sea ice data)
  - Sustained support needed (Conference Statement):
    - underpinning research
    - computing facilities
    - international cooperation


APN



**Major Events in 2009**

- Climate Change: Global Risks, Challenges & Decisions Copenhagen, Denmark, March 2009
- OceanObs '09: Ocean Information for Society: Sustaining the Benefits, Realizing the Potential Venice, Italy, September 2009
- World Climate Conference-3 Geneva, Switzerland, August-September 2009

APN




**Earth System Science Partnership**

DIVERSITAS IGBP IHDP WCRP

**Vision:** To address complex Earth system questions that are important to society and that require problem solving skills from a range of natural and social sciences.

APN 1<sup>st</sup> IGM/SPG Meetings, Kuala Lumpur, Malaysia, 18-20 March, 2009



**Amsterdam Declaration (2001)**

The Declaration points out that "a new system of global environmental science is required" that will "...integrate across disciplines, environment and development issues and the natural and social sciences; collaborate across national boundaries on the basis of shared and secure infrastructure; intensify efforts to enable the full involvement of developing country scientists; and employ the complementary strengths of nations and regions to build an efficient international system of global environmental science".

In 2008, the ESSP Review Panel noted that the Amsterdam Declaration (2001) is more valid today than seven years ago.

APN

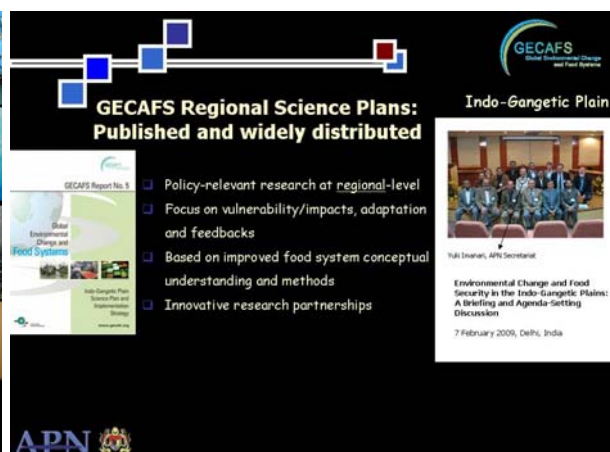


**Carbon Budget 2007**

- Anthropogenic CO<sub>2</sub> emissions have been growing about four times faster since 2000 than during the previous decade - despite efforts to curb emissions in a number of countries which are signatories of the Kyoto Protocol.
- Emissions from the combustion of fossil fuel and land use change reached 10 billion tonnes of carbon in 2007.
- Natural CO<sub>2</sub> sinks are growing, but more slowly than atmospheric CO<sub>2</sub>, which has been growing at 2 ppm per year since 2000. This is 33% faster than during the previous 20 years.
- All of these changes characterize a carbon cycle that is generating stronger climate forcing and sooner than expected.

For more details: [www.globalcarbonproject.org/carbontrends/index\\_new.htm](http://www.globalcarbonproject.org/carbontrends/index_new.htm)

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**GECAFS Regional Science Plans: Published and widely distributed**

- Policy-relevant research at regional-level
- Focus on vulnerability/impacts, adaptation and feedbacks
- Based on improved food system conceptual understanding and methods
- Innovative research partnerships

**Indo-Gangetic Plain**

Yali Desai, APN Secretariat

Environmental Change and Food Security in the Indo-Gangetic Plains: A Briefing and Agenda-Setting Discussion

7 February 2009, Delhi, India

APN

**QWSP Digital Water Atlas - Change In Discharge due to Deforestation - Mozilla Firefox**

Home | About | News | Links | Search

**Change In Discharge due to Deforestation**

Go to: Description | Dataset | Interactive Map

Change in river flow (Q) (discharge, km<sup>3</sup>/yr) due to historical forest conversion to agriculture.

**Description**

This map shows gridded fields of changes in river discharge (Q) due to historical deforestation from Google et al. (2005). This historical scenario compared distributed river flow (Q) generated from pre-industrial land cover with river flow derived from contemporary landcover.

**Interpretation**

Across the pan-tropical domain, approximately 5.5 million km<sup>2</sup> of tropical forest area has been converted to agricultural land use. One of the key factors in assessing the effects of land use change, loss of biodiversity and hydrological functional human vulnerability is the recognition that populations affected by these changes are linked to disturbance through river networks. Thus affected populations could be living both in the areas where the land use change takes place and in areas far downstream. Over the pan-tropical area, 32% of forests have been converted to agriculture by the year 1980s yielding an approximate 10% increase in annual basin water yield (a ratio of 1% water yield increase for every 2% forest area lost) from pre-industrial conditions. The largest proportion of both forest conversion and increased yield has occurred in southeast Asia, where a 44% forest conversion has yielded a 22% increase in annual basin yield.

**Source**

The dataset for this map was provided by: Charles J. Vörösmarty, Water Systems Analysis Group, Complex System Research Center, Institute for the Study of Earth, Oceans and Space, University of New Hampshire, USA.

**Background**

This dataset was developed for the World Water Development Report 1, Indicators for the World Water Assessment Program (http://www.wia.unh.edu/wwap.html) and in support of analysis outlined in Google et al.

**Cartogram: Greenhouse Gas Emissions**

Cartogram  
Billion metric tons C)

Country size scaled according to cumulative emissions in billion tonnes carbon equivalent in 2002. (Patz, Gibbs, et al, 2007)

APN

**Cartogram: Health Impacts of Climate Change**

Deaths from malaria & dengue fever, diarrhoea, malnutrition, flooding and (OECD countries) heatwaves

WHO regions scaled according to estimated mortality (per million people) in the year 2000, attributable to the climate change that occurred from 1970s to 2000 (Patz, Gibbs, et al, 2007)

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**MAIRS Science Plan: Integration 'Zones'**

Coastal Zone

Mountain Zone

Semi Arid Zone

Urban Zone

- 1-2 million inhabitants
- 2-3 million inhabitants
- 3-5 million inhabitants
- 5-10 million inhabitants
- More than 10 million

MAIRS

**Bioenergy and Earth Sustainability**

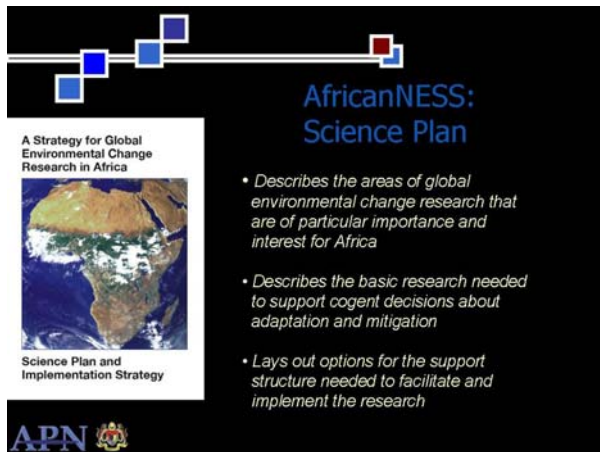
- Led by GCP on behalf of ESSP w/ IGBP regional office support
- Goal:** to identify the major opportunities and constraints for bioenergy in the context of earth system sustainability.
- Expected outcomes:** high-profile paper, report, and agreement on set of analyses to be performed.

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**ESSP-CGIAR Challenge Programme on Climate Change, Agriculture and Food Security**

- Overcome critical gaps in knowledge of how to enhance – and manage the tradeoffs between – food security, livelihood and environmental goals in the face of a changing climate.
- Develop and evaluate options for adapting to a changing climate to inform agricultural development, food security policy and donor investment strategies.
- Assist farmers, policymakers, researchers and donors to continually monitor, assess and adjust their actions in response to a changing climate.

APN



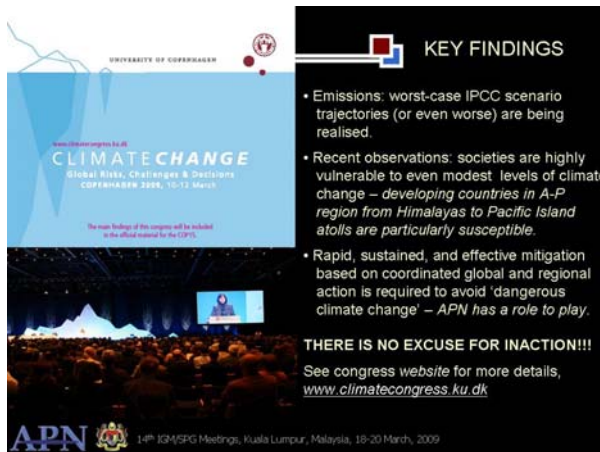
**AfricanNESS: Science Plan**

A Strategy for Global Environmental Change Research in Africa

Science Plan and Implementation Strategy

- Describes the areas of global environmental change research that are of particular importance and interest for Africa
- Describes the basic research needed to support cogent decisions about adaptation and mitigation
- Lays out options for the support structure needed to facilitate and implement the research

APN

UNIVERSITY OF COPENHAGEN

CLIMATE CHANGE

Global Risks, Challenges & Decisions

19-20 March 2009

KEY FINDINGS

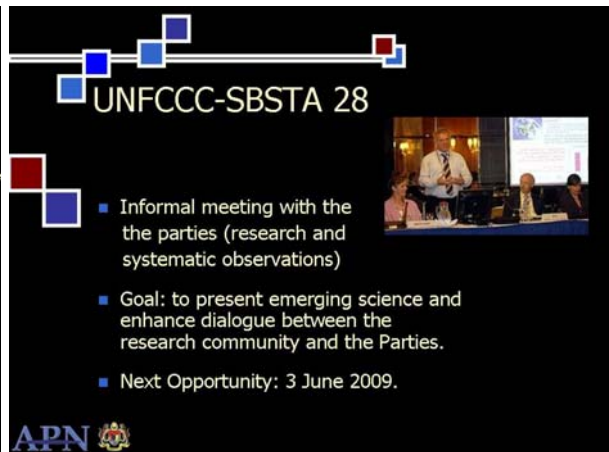
- Emissions: worst-case IPCC scenario trajectories (or even worse) are being realised.
- Recent observations: societies are highly vulnerable to even modest levels of climate change – developing countries in A-P region from Himalayas to Pacific Island atolls are particularly susceptible.
- Rapid, sustained, and effective mitigation based on coordinated global and regional action is required to avoid 'dangerous climate change' – APN has a role to play.

THERE IS NO EXCUSE FOR INACTION!!!

See congress website for more details, [www.climatecongress.ku.dk](http://www.climatecongress.ku.dk)

1<sup>st</sup> IGM/SPG Meetings, Kuala Lumpur, Malaysia, 18-20 March, 2009

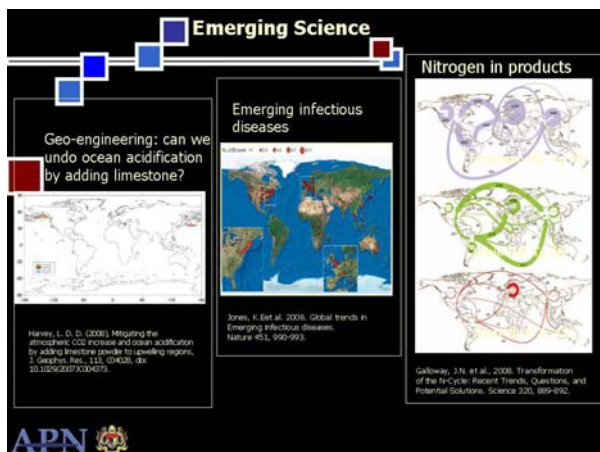
APN



UNFCCC-SBSTA 28

- Informal meeting with the the parties (research and systematic observations)
- Goal: to present emerging science and enhance dialogue between the research community and the Parties.
- Next Opportunity: 3 June 2009.

APN



**Emerging Science**

Geo-engineering: can we undo ocean acidification by adding limestone?

Emerging infectious diseases

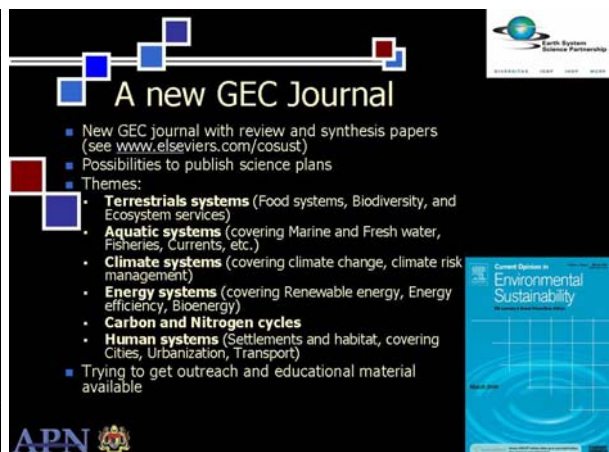
Nitrogen in products

Harvey, L. D. O. (2008). Mitigating the atmospheric CO<sub>2</sub> increase and ocean acidification by adding limestone powder to leeward regions. *J. Geophys. Res.*, 113, G4020. doi: 10.1029/2007JG004674

Jones, K. Bet al. 2008. Global trends in Emerging infectious diseases. *Nature* 451, 990-993.

Galloway, J.N. et al., 2008. Transformation of the N-Cycle: Recent Trends, Questions, and Potential Solutions. *Science* 320, 889-892.

APN




**A new GEC Journal**


- New GEC journal with review and synthesis papers (see [www.elsevier.com/cosust](http://www.elsevier.com/cosust))
- Possibilities to publish science plans
- Themes:
  - **Terrestrials systems** (Food systems, Biodiversity, and Ecosystem services)
  - **Aquatic systems** (covering Marine and Fresh water, Fisheries, Currents, etc.)
  - **Climate systems** (covering climate change, climate risk management)
  - **Energy systems** (covering Renewable energy, Energy efficiency, Bioenergy)
  - **Carbon and Nitrogen cycles**
  - **Human systems** (Settlements and habitat, covering Cities, Urbanization, Transport)
- Trying to get outreach and educational material available

APN

## Carbon Reductions and Offsets


- Carbon offsets are an **important early step**.
- Choose **comprehensive carbon calculators**.
- Set **meaningful limits** of responsibility.
- Put **efficiency first**.
- Purchase **100 per cent truly new renewable energy**.
- The **voluntary market** has developed many **credible offset projects**.
- Offset projects that **avoid emissions** are best for the long-term.
- Carbon sequestration in plants and soils can be **vulnerable** but has additional benefits.
- **Tropical reforestation and avoided deforestation** are efficient, cost effective land based strategies.
- Choose offset projects with **stringent standards**.
- **Integrate expenses** for offsetting into the cost of activities.
- Make a **carbon emissions inventory**.
- **Aim for zero net carbon emissions**.



APN  Get report from ESSP website: [www.essp.org](http://www.essp.org)

## APN and GEC Research Programmes / ESSP Collaboration

- **Current**
  - Research Projects
  - Open Conferences and workshops
  - Capacity building and training institutes
  - Science-Policy
- **Potential Areas**
  - Strategic plans – including science agenda
  - Knowledge transfer – journals, fora, policy-briefs
  - New science and insights

APN  1<sup>st</sup> IGM/SPG Meeting, Kuala Lumpur, Malaysia, 18-20 March, 2009

• Inter-American Institute for Global Change Research (IAI)  
- Update on the IAI Science Programs -

Louis B. Brown, Gerhard Breulmann, Ione Anderson

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### IAI Member Countries

1. Argentina
2. Bolivia
3. Brazil
4. Canada
5. Chile
6. Colombia
7. Costa Rica
8. Cuba
9. Dominican Republic
10. Ecuador
11. Guatemala
12. Jamaica
13. Mexico
14. Panama
15. Paraguay
16. Peru
17. United States of America
18. Uruguay
19. Venezuela



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13 CRN II projects (5 yrs, 2006-2011)	Countries	Grant US\$
CRN2005, From Landscape to Ecosystem: Across-scales <b>Transitioning</b> in Changing Environments, PI Guillermo SARMENTO	VEN, ARG, BRA, CAN, GER	497,720
CRN2014, Functional links between aboveground changes and belowground activity with land use in the Americas: <b>soil biodiversity and land use</b> , PI Ricardo BERRERA	BRA, BOL, CAN, CHI, CUB, ECU, MEX, USA	650,000
CRN2015, <b>Functional Biodiversity</b> : Effects on Changing Ecosystem Processes and Services and Sustainability: An Interdisciplinary Approach, PI Sandra DIAZ	ARG, BOL, CR, USA	711,937
CRN2017, South American <b>Communities, Mega-cities</b> , and Climate (SAEMC), PI Laura KLENNER	CHI, ARG, BRA, COL, PER, USA	633,560
CRN2021, Understanding the human, biophysical and political dimensions of <b>tropical</b> primary and secondary <b>dry forests</b> in the Americas, PI Arturo Sanchez AZOFEFA	CAN, BRA, CR, CUB, MEX, USA, VEN	1,064,485
CRN2031, <b>Land use change in the Rio de la Plata Basin</b> : Linking biophysical and human factors to predict trends, assess impacts, and support viable land-use strategies for the future, PI Esteban JOMBAGNY	ARG, BRA, PAR, URU, USA	921,452
CRN2047, Documenting, understanding and projecting changes in the <b>hydrological cycle in the Americas</b> , PI Brian LUCKMAN	CAN, ARG, BOL, BRA, CHI, MEX, USA	756,000
CRN2048, <b>Tropical rainforest</b> current characteristics and potential changes under a warmer climate, PI Graciela DE RAGA BINIMELIS	MEX, CR, CUB, USA	343,000
CRN2050, Paleontempestology of the Caribbean Region: A Multi-proxy, Multi-site Study of the Spatial and Temporal <b>Variability of Caribbean Hurricane Activity</b> , PI K. B. LIU	USA, CAN, CR, MEX	620,000
CRN2060, Effective <b>Adaptation Strategies and Risk Reduction</b> towards Economic and Climatic Shocks: the Coffee Crisis in Mesoamerica, PI Edwin CASTELLANOS	GUA, CR, MEX, USA	579,987
CRN2061, <b>Caribbean Coastal Resilience</b> , PI Michael MCCLEAN	USA, CUB, DR, JAM	427,425
CRN2076, SACC: An International Consortium for the Study of <b>Fire-related Global and Climate Change</b> in South America, PI Alberto PIZA	ARG, BRA, CHI, URU, USA	782,200
CRN2078, <b>The Spans of Land Cover and Land Use</b> Changes on the Hydroclimate of the La Plata Basin, PI Ricardo BERRERA	ARG, BRA, USA	526,679

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### SGP-HD approved projects


TITLE	Collaborating CRN II project(s) #, PI	Grant US\$
Climate Change and Irrigated Agriculture: Towards a better understanding of <b>driving forces and feedbacks</b> between <b>decision makers and biophysical environment</b> and their impacts on hydrological cycle and land use, PI Francisco Meza, Chile	CRN2031, Jobbagy CRN2047, Luckman	497,720
Coming down the Mountain: Understanding the <b>vulnerability of Andean communities</b> to hydroclimatic variability and GEC, PI David Gauthier, Canada	CRN2047, Luckman	149,820
Information Flow and Policy: Use of Climate Diagnostics and Cyclone Prediction for <b>Adaptive Water Resources Management</b> under Climatic Uncertainty in Western North America, PI Robert G. Varady, USA	CRN2048, De Raga	147,286
<b>Conservation Policy Impacts in Tropical Dry Forests</b> : regional and spatially focused analyses given other social and natural drivers of land use, PI Alex Pfaff, USA	CRN2021, Sanchez	109,850
Designing a methodology to <b>validate local knowledge on global change</b> and its role in the construction of future land use scenarios by local actors, J.F. Tourraud, Brazil	CRN2031, Jobbagy CRN2061, McClain	158,000
<b>Decision support system (DSS) for risk reduction in agriculture</b> , Phase II: Soybean DSS for Eastern Paraguay and Rio Grande do Sul, Clyde Fraisse, USA	CRN2031, Jobbagy	75,000

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### IAI Program & Project Status

1. CRN II projects on track, Year 3
2. IDRC project on “Land use change, biofuels and rural development in the La Plata Basin” – Year 1 report submitted
3. Approval and implementation of additional activities, strategic extensions under four CRN projects
4. IAI will apply for supplemental funds to NSF to extend the Small Grants program for the Human Dimensions (SGP-HD) so that its timeline coincides with CRN


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### CRN II additional activities


1. **CRN2015**: development of f-Diversity software, update of software manual, capacity-building courses to apply packages & tutorials
2. **CRN2017**: to provide a grid-enabled weather + climate application, integration of web portal and grid services, enhance, expand regional expertise on grid-computing weather/climate grid service, further consolidate grid-computing activities
3. **CRN2050**: study paleotempestology of Eastern North Pacific hurricanes along Pacific Coast of Mexico, workshop for co-PIs & students in Year 4
4. Phenology Tower Initiative led by **CRN 2021** involving four projects under CRN

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### IAI – NCAR joint activities (NSF funded)


- 2<sup>nd</sup> NCAR-IAI colloquium, “Seasonality and Water Resources in the Western Hemisphere”, 6 – 17 Oct 2008, Mendoza, Argentina
- Following up on the Boulder 2006 colloquium on ‘Policy planning and decision making involving climate change and variability’
- Local host IANIGLA, CRICYT – excellent support (Pepe Bonisegna, Ricardo Villalba et al), very dynamic group/participants
- 2 weeks of presentations, discussions, working groups, fieldtrip
- Outcomes: Policy brief (Draft HT) & publication (working groups with coordinators have been established)



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### Upcoming 2009 Events

- CRNII + SGP-HD PI meeting, Montevideo, Uruguay 24-26 June back-to-back with SAC mtg to start synthesis across projects & themes - will also involve IDRC & MacArthur project PIs & stakeholders
- IAI submitted input to Copenhagen CC conference (March 2009)
- IAI funded Governance Session at IHDP Open Meeting (June 30)
- IAI joint side-event with ESSP at SBSTA-30 (with presentation by APN?) - (Bonn, June 2009)




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### IAI Training Institutes 2009

Upcoming Events:

- IAI Training Institute on Remote Sensing Application to Hydrology in Semi-Arid Regions, April 20–24, 2009, Natal, Brazil
- Science-Policy Forum on Ecosystems Services and Climate Change Adaptation in the Andes, July 2-3, 2009, Quito, Ecuador
- Cities’ Responses to Climate Change, March 30 - April 3, 2009, Santiago, Chile



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### Project ‘Factsheets’ available on IAI website

Factsheets

One-pagers providing a quick overview on each project, periodically updated, main project information in very compact form ; available on TWIKI and IAI website




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### New products, publications

IAI - SCOPE:



- Spanish version SCOPE 68 “Communicating Global Change Science to Society”, translation finalized, book is with Island Press to sort out copyright issues.

CRN publication:

- CRN061/2076, Alberto Piola, Edmo Campos & team, ELSEVIER Special Issue on “Continental Shelf Research”

IAI online book:

- On-line book on “Applying Ecological Knowledge to Landuse decisions (IAI website)





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### Further info at [www.iai.int](http://www.iai.int)



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**APN and GC Informal Dialogue:**

**New International Research Programme on Humans, Ecosystems, and Wellbeing**

14<sup>th</sup> Inter-Governmental Meeting  
 & Scientific Planning Group Meeting  
 Kuala Lumpur, Malaysia  
 18-20 March 2009


**Let's go to Alaska!**



The pea growers of Palmer  
 Pea grown in summer for more than 40 years  
 Last year first ever outbreak of *Campylobacter* affecting 99 people

APN 14<sup>th</sup> IGM/SPG Meetings, Kuala Lumpur, Malaysia, 18-20 March, 2009

**Campylobacteria**




Campylobacteriosis: illness caused by bacteria of the same name; found in most of the poultry we eat as it exists in birds and does not make them sick.

It doesn't make us sick, either, if the chicken we eat is cooked properly and has not been contaminated with raw chicken juices.

Campylobacter is the most common bacterial cause of diarrhea in the world.

More serious illness may require the use of an antibiotic to clear up; in some cases people develop arthritis or a very rare nerve disease called Guillain-Barré syndrome after having campylobacter; causes the body's immune system to attack the nerves, resulting in paralysis.

APN 14<sup>th</sup> IGM/SPG Meetings, Kuala Lumpur, Malaysia, 18-20 March, 2009



Sandhill Crane (*Grus canadensis*) started appearing on the Palmer pea farms 3 to 4 years ago

APN 14<sup>th</sup> IGM/SPG Meetings, Kuala Lumpur, Malaysia, 18-20 March, 2009

**CDC Says Alaska's Campylobacter Outbreak Was From Cranes Over Peas**

Posted on October 14, 2008 by Campylobacter Attorney



Palmer, Alaska is located in the striking Matanuska Valley of Southcentral Alaska, between the Chugach and Talkeetna mountain ranges. Peas grow there in summer, the season when it's possible to go out and watch the Sandhill Cranes that frequent the area. This past summer, however, 99 people came down with Campylobacter.

The Centers for Disease Control and Prevention (CDC) in Atlanta determined that the outbreak of Campylobacter diarrhea was traced to eating uncooked peas that came from a field frequented by sandhill cranes.


Droppings from the cranes most likely contaminated the peas, said Dr. Tracie Gardner, an epidemiologist with the Alaska Division of Public Health.

APN 14<sup>th</sup> IGM/SPG Meetings, Kuala Lumpur, Malaysia, 18-20 March, 2009

**Why did the Sandhill Cranes appear in Palmer?**

- Ecosystem change (?)
- Climate change (?)
- Global change (?)
- Barry Commoner's "Everything is connected to everything else"

APN 14<sup>th</sup> IGM/SPG Meetings, Kuala Lumpur, Malaysia, 18-20 March, 2009




### New International Research Programme on Humans, Ecosystems and Wellbeing (HEW)

The overall goal is to stimulate additional research on coupled ecological and social systems using the MA conceptual framework.




14<sup>th</sup> IGM/SPG Meetings, Kuala Lumpur, Malaysia, 18-20 March, 2009



### Focal areas

1. The nature of interactions among drivers of change
2. The relative influence of ecosystem change on human well being
3. Interactions among ecosystem services
4. Cross-scale (temporal and spatial) interactions of drivers, services, and responses
5. How ecosystem services and human well-being outcomes can be modified by changes in policies or management
6. Better description of the relationship between humans and ecosystems at local, regional, and global scales




14<sup>th</sup> IGM/SPG Meetings, Kuala Lumpur, Malaysia, 18-20 March, 2009



### Draft implementation matrix\* for Asia and the Pacific

- Topics of research
- Issues to be addressed
- Research questions
- Possible research activities

\*The matrix will be circulated at the dialogue.



14<sup>th</sup> IGM/SPG Meetings, Kuala Lumpur, Malaysia, 18-20 March, 2009



### Thank you for your attention!



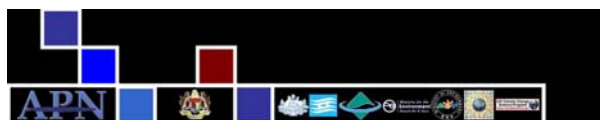
International Council for Science  
Regional Office for Asia and the Pacific

[www.icsu-asia-pacific.org](http://www.icsu-asia-pacific.org)



14<sup>th</sup> IGM/SPG Meetings, Kuala Lumpur, Malaysia, 18-20 March, 2009





**APN and GC Informal Dialogue**  
 14<sup>th</sup> Inter-Governmental Meeting  
 & Scientific Planning Group Meeting  
 Kuala Lumpur, Malaysia  
 18-20 March 2009

PROF. DR. SHARIFAH MASTURA SYED ABDULLAH  
 Earth Observation Centre  
 Universiti Kebangsaan Malaysia

**Earth Observation Centre (EOC) & South East Asia Regional, Research and Information Network (SEARRIN)**

Researchers and Institutions Directory

	Cambodia		Indonesia
	Laos		Malaysia
	Philippines		Thailand
	USA		Vietnam

APN 14<sup>th</sup> IGM/SPG Meetings, Kuala Lumpur, Malaysia, 18-20 March, 2009

**SEARRIN Current Projects**

- South East Asia collaborations on Carbon measurements and markets.
- The role of land cover change in montane mainland Southeast Asia in altering regional hydrological processes under a changing climate.
- Modeling and Data Integration for the study of land use and land cover change in the southern Johor : Focus on deforestation.

APN 14<sup>th</sup> IGM/SPG Meetings, Kuala Lumpur, Malaysia, 18-20 March, 2009

**SEARRIN Current Meetings**

- Regional, Multi-scaled, Multi-temporal Land Use and Land Cover Data to support Global Change Research, Land Use Management, and Policy Making: A SEARRIN LUCC Project, Hanoi, Vietnam, 28 - 31 August 2003
- Southeast Asian Burnt Area Mapping Training Workshop, Universiti Kebangsaan Malaysia, Bangi, Selangor, Malaysia, 17-19 May 2004
- Southeast Asia Regional Research Information Network (SEARRIN) Regional Report. START-SARCS Scientific Steering Committee. Central University of Taiwan. Chung -U, Taiwan, 7- 9 June 2004
- NASA-LCLUC Science Meeting with MAIRS, GOCF-GOLD & SeaStart Program on Land Use Change, Khon Kaen, Thailand, 12-17 January 2009
- GOCF-GOLD Fire Monitoring and Mapping IT Meeting 2nd Workshop on Geostationary Fire Monitoring and Applications, Darmstadt, Germany, 4 - 6 Desember 2006
- GOCF-GOLD Symposium on Forest and Land Cover Observations di Jena, Germany, 13 - 17 Oktober 2008

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**Earth Observation Centre (EOC) & University Research Areas**  
**Niche 5: Climate Change**

```

    graph TD
      CC[Climate Change (Perubahan Iklim)] --> EOC[EOC]
      CC --> TCC[Tropical Climate Change]
      CC --> PRA[Policy Responses and Adaptations]
      EOC --> EOC_Text[Global Warming: Local impact and their implications on environmental Management and Planning]
      TCC --> TCC_Text[Atmosphere, Ocean and Climate]
      TCC --> TCC_Text2[Ecosystems Response and Climate Change]
      TCC --> TCC_Text3[Mathematic Modelling and Data Mining]
      PRA --> PRA_Text[Adaptation and Benefits of Mitigation]
      PRA --> PRA_Text2[Liability, Climate Change for Ethical Linking]
      EOC_Text --- EOC_Th1[Core Theme 1: Land Use and Land Cover Change in the Tropics]
      EOC_Text --- EOC_Th2[Core Theme 2: Impact of Human Dimension in Land Use Change]
    
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APN 14<sup>th</sup> IGM/SPG Meetings, Kuala Lumpur, Malaysia, 18-20 March, 2009

**Core Theme 1**  
**Land Use and Land Cover Change in the Tropics**

The major concern of land use and land cover changes in Malaysia and other Southeast Asian countries is the fast pace in which forests are being converted to other land uses. Another concern is agricultural land being actively converted to settlement and industrial estates. As such it is important to monitor the extent and pattern of changes in land use over the years and to understand the causal factors or driving forces that changed them. Such work would result in the development of empirical diagnostic models of the deforestation process and improve our understanding of the causes of deforestation.

The changes involved in land use and land cover studies provide valuable inputs for greenhouse gases emission, which contribute to the global budget for sources and sink of carbon. Meanwhile, environmental degradation at downstream due to impact of change in land use and land cover is an important component for erosion and sedimentation studies as well as coastal zone studies. All are important areas linking to IPCC and FCCC.

APN 14<sup>th</sup> IGM/SPG Meetings, Kuala Lumpur, Malaysia, 18-20 March, 2009

**Core Theme 1**  
**Land Use and Land Cover Change in the Tropics**

The objectives are:

- to document the rates and spatial patterns of land use and land cover change;
- to understand the driving forces of land-cover conversion and subsequent land-use change;
- to project land use and land cover changes into the future, based on an improved understanding of local and external drivers;
- to recognise land use change due to forest fires;
- to upscale the studies to regional assessments;
- to link LUCC research to formulation national policy and needs;

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**Core Theme 1**  
**Land Use and Land Cover Change in the Tropics**

The objectives are: (cont'd)

- to study downstream impact of land use change:
  - Carbon emission and sequestration*
  - Air quality degradation*
  - Micro climatic change*
  - Accelerated erosion and siltation*
  - Water resources and hydrology*
  - Sea level rise*
  - Coastal and marine degradation due to fluxes of carbon, nutrients and pollutants.*
  - Habitat degradation and biodiversity loss*
- to establish of LUCC data base for future research

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**Core Theme 2**  
**Impact of Human Dimension in Land Use Change**

In the search for understanding the relative contributions to land cover and land use change to global warming, population and economic growth, technological change, various aspects of international and national policies and social and economic structure, one shall have to depend heavily on data. An analysis of time-series data over an extended period would enable one to capture *what* rate (*how*) the land use changes took place. Applying these data spatially would shed light as to *where* changes had occurred and the analysis of what and where together may lead us to answer the question of *why*. As such, data is highly needed in helping us to understand the processes of change that are taking place around us especially as pertain to land cover and land use changes.

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**Core Theme 2**  
**Impact of Human Dimension in Land Use Change**

There are multiple actors and structures, combining in complex, synergistic ways that bring about land cover and land use changes. The formers are mostly exogenous forces associated with human actions. They can be in the form of man's demographic and social standing, economic practice and advancement, policy decisions, etc. For the purpose of the niche cluster, we termed these forces as *socio-economic factors*. Another terms use by global change researchers is *human dimensions* in LUCC.

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**Core Theme 2**  
**Impact of Human Dimension in Land Use Change**

Objectives are:

- To understand socio economic factors that could cause land use and land cover change or human driving forces that caused LUCC.
- To identify the human driving factor at local and regional scale
- To establish relationship between LUCC and causal factors that can be written as  $LUCC = f(\text{population dynamics, economy, technology, political and economic institution, culture etc.})$
- To establish community type intervention programme to minimise accelerated LUCC
- To establish link between LUCC and education as well as public awareness programmes.

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**Future Research Project for Core Theme 1**

1. Land Use and Land Cover Change for Iskandar Region in South Johor.
2. Applications of Multi scale-Multi temporal Date to Support a Global Change Research at Nusajaya.
3. Developing Diagnostic Model of the Deforestation Process to Global Change Research Efficacy of an Intervention Program: Case of South Johor.
4. Deforestation and its Impact on the Environment in the Iskandar Region.
5. Carbon Budget Quantification Due to Land Use Land Cover Change (LUCC) in the Iskandar Region.
6. Spatial Data and Information for Land Use Forest Assessment and Management for Changes in Carbon Budget.

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### Future Research Project for Core Theme 1 (cont'd)

7. Various Scenarios to Sea Level Rise in the Iskandar Development Region.
8. Trend Analysis to Detect Changes in Global Warming Using Meteorological Indicators: A Case for Iskandar Regional Development.
9. Integrated Coastal Zone Management.
10. Integrated River Basin Management.
11. Environmental Baseline Data for Straits of Johor and South of South China Sea.

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### Future Research Project for Core Theme 2

1. Global Change and Human Security: Development and the Avoidance of Marginalization of Peripheral Population.
2. Global Change and Human Security: The Green Plan Intervention and the Enhancement of Ecological and Economic Resilience
3. Global Change and Community Development: Inculcating Innovation Culture in the Young Community Members Whilst Promoting the Infusion of Modern ICT Technologies to the Local Industries.
4. Global Change and Public Participation: The Role of Public Participation in the Activities Related to LUCC.
5. Global Change and Public Participation: Public Participation in the Management and Conservation of the Sg. Pulai Mangroves Forest Reserves.
6. The Role of Public Participation and Awareness Related to the Land Use land Cover Change (LUCC) in the Iskandar Development Region.
7. Socio-economic Modelling of Land Use / Land Cover Change.

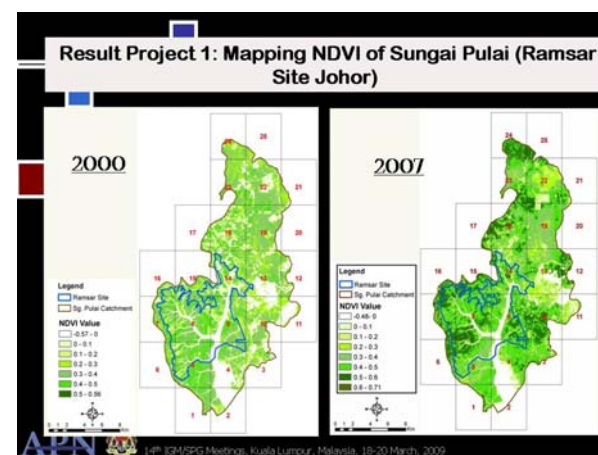
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### Current Short Term Research Project

Research University Grant

1. Deforestation and impact on the environment in the Iskandar Development Region.
2. Human dimension and deforestation in the Iskandar Development Region.
3. Amelioration of LUCC impacts by re greening and conservation program in the Iskandar Development Region.

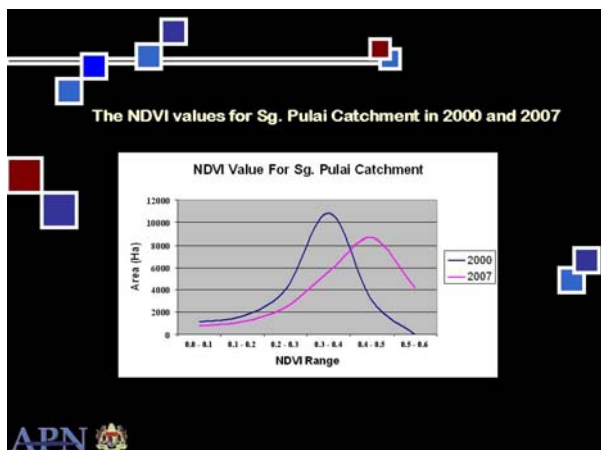
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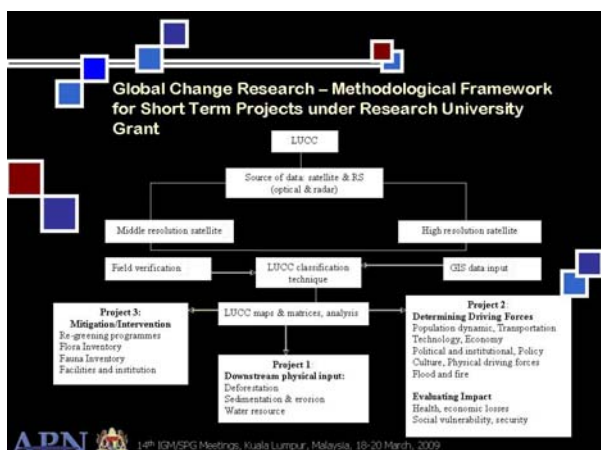
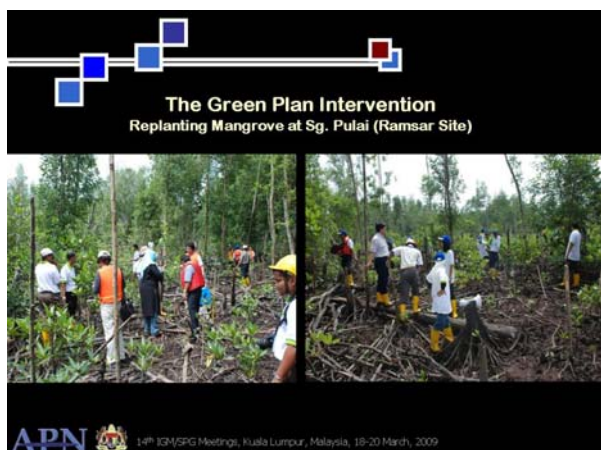
### The NDVI values for Sg. Pulai Catchment in 2000 and 2007

NDVI Value	Vegetation Density	Area (ha)		
		2000	2007	7 year change
0.0 - 0.1	Very Poor	1 598	774.5	+823.5 (51.5% decrease in density)
0.1 - 0.2	Poor	1 873	1 184.4	+688.6 (36.8% decrease in density)
0.2 - 0.3	Moderate	4 300.9	2 440.2	+1860.7 (43.3% decrease in density)
0.3 - 0.4	High	10 838.1	5 663.8	+5174.3 (47.7% decrease in density)
0.4 - 0.5	High	3 060.1	8 664.9	-5604.8 (183.2% increase in density)
0.5 - 0.6	Very High	400.0	4 176.1	-3726.1 (828.0% increase in density)

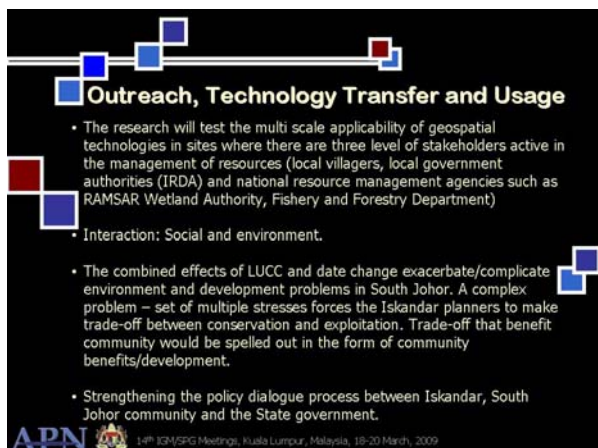
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- ### Enhancing Resiliency and Adaptive Capacity of the Mangrove Ecosystem of Pulai
1. No more encroachment is allowed in the areas.
  2. The buffer zone of 500 – 1000m must be adhered to at all costs.
  3. Damaged mangroves must be replanted with new seedlings to assist nature rebound faster and to increase the density of the mangrove: The Green Plan Intervention and the Enhancement of Ecological and Economic Resilience
  4. Stringent monitoring of water quality.
  5. The sites is to be used for low impact nature tourism, research and education.
  6. Regular monitoring and auditing of the ecosystems using satellite imageries.
  7. Integrated Wetland Research Network should be established by relevant authorities.
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- ### Expected Output
- Development of new resource measurement and assessment tools/which will involve the development of local and national methods for LUCC inventory and classification using remote sensing and GIS
  - Development of Spatial Decision Support System and Special Data Infrastructure for local assessment, planning and implementation
  - Production of research, report and publication
  - Student training and capacity building
  - Thesis, proceedings, etc.
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### Outreach, Technology Transfer and Usage

- The research will test the multi scale applicability of geospatial technologies in sites where there are three level of stakeholders active in the management of resources (local villagers, local government authorities (IRDA) and national resource management agencies such as RAMSAR Wetland Authority, Fishery and Forestry Department)
- Interaction: Social and environment.
- The combined effects of LUCC and date change exacerbate/complicate environment and development problems in South Johor. A complex problem – set of multiple stresses forces the Iskandar planners to make trade-off between conservation and exploitation. Trade-off that benefit community would be spelled out in the form of community benefits/development.
- Strengthening the policy dialogue process between Iskandar, South Johor community and the State government.

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# THANK YOU

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