



**PROCEEDINGS OF THE  
10<sup>TH</sup> INTER-GOVERNMENTAL MEETING  
AND  
10<sup>TH</sup> SCIENTIFIC PLANNING GROUP MEETING**

**Kobe, Japan  
12-14 March 2005**



## PREFACE

The APN's 10<sup>th</sup> anniversary joint Inter-Governmental Meeting (IGM) and Scientific Planning Group Meeting (SPG), that convened in Kobe, Japan, from 12-14 April 2005, concluded successfully. As ten years is a major milestone, the 10<sup>th</sup> anniversary meeting was considered to be an appropriate occasion to review the APN's activities so as to learn from the past and plan for the future.

The 1<sup>st</sup> APN Inter-Governmental Meeting was held in March 1996 in Chiang Mai, Thailand and the 1<sup>st</sup> Scientific Planning Group (SPG) meeting was held in August 1996 in Kuala Lumpur, Malaysia, respectively. After 10 years, some of the original national Focal Points and SPG members, who attended those early meetings, are still actively participating in APN activities; our new members also contribute to the APN bringing with them new perspectives. The APN's activities have developed and have been promoted through the tremendous and sustained efforts of member countries, stakeholders, our Global Change partners, and the Secretariat.

Moreover, the five years after the First Strategic Plan was launched in 1999 coincides with the establishment of a full time Secretariat in Kobe with a full time Secretariat Director in that same year. It has been rewarding reviewing the efforts of the APN over the past years; this review culminated in the writing of the Evaluation Report (1996-2004) and the preparation of the Second Strategic Plan. Undoubtedly, this is the time to share new ideas of how we can strengthen the APN with an innovative outlook towards the future as we enter into our Second Strategic Phase (2005-2009).

Indeed, there is a growing national, regional and global awareness of the APN and its potential role is highly regarded by the international community. We should think more about how the APN's status can become more robust. With this in mind, the 10<sup>th</sup> IGM/SPG meeting kicked off discussions toward the Steering Committee Reform and formulated its new structure.

The Secretariat will do its best to implement agreed decisions and suggestions in a successful manner and to prepare for the 11<sup>th</sup> IGM/SPG meetings in a timely and proper manner. As agreed at the 10<sup>th</sup> IGM/SPG the Secretariat will be actively working to:

- Ensure effective interaction with the new Steering Committee;
- Implement the Second Strategic Plan; prepare an operating plan;
- Prepare the revisions for the Framework Document;
- Support the Resources Development Committee to secure future resources; and
- Implement the agreed budget plan with specific focus on science activities.

I am convinced that the 10<sup>th</sup> IGM/SPG meeting will be noted as a milestone in the history of the APN; many positive initiatives resulted from the IGM/SPG, particularly the acceptance of the APN Evaluation Report and the adoption of the Second Strategic Plan. The IGM/SPG also gave a clear indication of what we must aim to achieve over the next year. Now I am very pleased to be able to declare that we have entered the second strategic phase. We very much appreciate and look forward to your continued support as we enter this exciting phase.



Sombo T. Yamamura  
Director  
APN Secretariat



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## **SECTION I**

### **10<sup>th</sup> APN Inter-Governmental Meeting and 10<sup>th</sup> APN Scientific Planning Group Meeting**

**Kobe, Japan  
12-14 April 2005**

**Chairperson's Summary**

## Chairpersons' Summary

### APN 10<sup>th</sup> Inter-Governmental Meeting (IGM) and Scientific Planning Group (SPG) Meeting 12-14 April 2005, Kobe, Japan

Representatives attended the meeting from: Australia, Bangladesh, Cambodia, Fiji, India, Indonesia, Japan, Lao P.D.R., Malaysia, Mongolia, Nepal, New Zealand, Pakistan, Philippines, People's Republic of China, Republic of Korea, Sri Lanka, Thailand, the USA, and Viet Nam. APN Liaison Officers, START, and observers from IGBP, IHDP and the National Science Foundation (USA) also participated. The lists of participants are provided as **Attachments I and II**.

#### 12 April - DAY ONE

#### IGM and SPG Joint Session

##### Opening

Mr. Sombo Yamamura, the APN Secretariat Director, introduced and invited Mr. Seizo Matsumoto, Vice Minister for Global Environmental Affairs, Ministry of the Environment, Japan, to give an opening speech. In his speech Mr. Matsumoto highlighted the following points:

- The establishment and subsequent success of the CAPaBLE Programme; established in March 2003;
- Appreciation to Australia, New Zealand and the USA for their monetary contributions and to all member countries for their dedication and active participation and in-kind contributions to the Programme;
- 3<sup>rd</sup> EOS was held in Brussels in February 2005 and a ten-year implementation plan for the Global Earth Observation System of Systems (GEOSS) was adopted. The APN will positively contribute to earth observations;
- The APN is recognised as a significant international network; thanks governments, members and the APN Secretariat;
- Significant contributions from Hyogo Prefecture for hosting the APN in addition to their monetary contributions for scientific activities; and
- Japanese Ministry of the Environment (MOEJ) will continue its strong participation in APN activities.

##### Welcome

Mr. Sombo Yamamura thanked Mr. Matsumoto for his opening remarks and then expressed his special thanks to all participants for attending the meetings. The APN Director then thanked stakeholders, MOEJ and the Hyogo Prefectural Government as well as Mr. Kazuhiko Takemoto, APN national Focal Point (nFP) for Japan and Dr. Nobuo Mimura, Scientific Planning Group (SPG) member for Japan for their support in hosting and helping to organise the 10<sup>th</sup> Inter-Governmental Meeting (IGM)/ Scientific Planning Group Meeting (SPG). Member countries, Global Change partners and the Secretariat also received appreciation for their sustained efforts. Mr. Yamamura went on to highlight some of the APN's activities:

- 10 years is a major milestone and an appropriate time to review activities to
  - learn from the past and plan for the future;
- In the past 12 months, the Secretariat has worked closely with Mr. Randal Helten, consultant to the APN, to perform the evaluation and draft a second strategic plan for the next phase of APN activities;



- All functions of the APN Secretariat were transferred to IGES in April 2004. Some innovative results were produced including the establishment of an independent account for the APN;
- There is growing awareness of the APN at the global level and within global change activities such as the GEOSS; and
- Cooperation and contribution throughout the meeting and beyond to implement the second strategic phase.

### **1. Election of Officers**

Mr. Yamamura proposed that Mr. Kazuhiko Takemoto, the APN national Focal Point for Japan and Mr. Sovannang Ieng, the APN national Focal Point for Cambodia be elected as Chair and Vice Chair, respectively. The delegates accepted the proposal. Mr. Kazuhiko Takemoto thanked the delegates for their election.

### **2. Adoption of the Agenda**

Mr. Takemoto introduced the agenda noting that flexibility was welcomed. The agenda was adopted as proposed.

### **3. Review of 2004/2005 Activities**

Mr. Martin Rice, Programme Manager for Communications and Development gave a brief overview of the history of the APN and its place within the international Global Change community. He then presented a review of APN's activities since the 9th IGM/SPG Meetings in Canberra, Australia. Highlights are as follows:

#### **Outstanding activities:**

- Completed the evaluation of APN's activities (1996-2004);
- Prepared the Evaluation Report and the Second Strategic Plan;
- Started the APN Programme Fellowship Initiative (Capacity Building); and
- Published the APN Global Change Coastal Zone Management Synthesis Report (ISBN4-990-25000-1 C3244).

#### **Publicity and Communications:**

- Distributed the first APN annual report (2003/2004);
- Issued quarterly newsletters electronically;
- Featured APN activities in national and local newspapers, radio and television;
- Disseminated APN information at national and international fora;
- Published a CAPaBLE brochure and poster;
- Published the APN Project and Regional Reports 2004/2005;
- Produced custom made posters;
  1. APN (general)
  2. 4 CAPaBLE Posters (1 general; 3 project-specific)
  3. Climate calamities and human health
- Produced APN/WHO Proceedings for public forum on climate calamities and human health (World Conference on Disaster Reduction);
- Produced an APN brochure in Japanese for local outreach activities;
- Project impacts, highlighting project and regional activity report publication for 2004/2005; and
- APN/Hyogo joint Public Forum on Global Change Research and Environmental Education.

#### **Programme Development:**

- Evaluation of the APN;
- Second Strategic Plan;
- Annual Regional Call for Proposals (ARCP);
- CAPaBLE Programme; and
- Synthesis activities.

Mr. Rice informed the meeting of the success of the public forum on “Environmental Education and Global Change Research” held on 11 April 2005, at which the Minister for Environment Japan and Governor of Hyogo Prefecture both gave opening remarks. This public forum was hosted by the APN and the Hyogo Prefectural Government.

#### **4. Financial Report of 2004/2005**

Mr. Yukihiro Imanari, APN Secretariat Executive Manager, introduced the Financial Report for 2004/2005 explaining that, due to the transfer of operations from AIRES to IGES, there were changes to the reporting system. Revenue for fiscal year (FY) 2004/2005 amounted to US\$ 2.15 million. US\$ 1.5 million and US\$ 443,000 were spent on scientific activities and administration expenses, respectively; US\$ 136,000 was carried over to the next year. Dr. Andrew Matthews, national Focal Point and Scientific Planning Group Member for New Zealand thanked the MOEJ for its continued support and the NSF/USCCP for increasing its contributions to the APN. Dr. Matthews also stressed the importance of acknowledging Hyogo Prefecture Government for both their monetary and in-kind contributions to the APN Secretariat.

Mr. Yasuo Takahashi, MOEJ, commented that he was pleased that the transfer of the APN to IGES had resulted in financial benefits, including tax reductions. Mr. Takahashi joined Dr. Matthews in thanking Hyogo Prefecture Government, NSF/USCCP, and the governments of Australia and New Zealand for their strong contribution. It was reiterated that MOEJ wishes to continue its support but that increased contribution is difficult. The importance of diversification of financial resources for the APN’s further development was stressed and member countries were asked to consider this during the 10th IGM/SPG.

**Action: APN Members**

Mr. Hanjin Cho, representative of the APN national Focal Point for the Republic of Korea (ROK) extended his appreciation to the APN Secretariat for its active participation in the Eminent Scientists Symposium hosted by the Korean Environment Institute in March, 2005; and the financial support provided by APN. Mr. Cho stated that the ROK has a continued interest in the APN and that it is actively trying to secure funds for APN activities. Mr. Takemoto welcomed the support of ROK and extended his full appreciation for hosting the UNESCAP 5<sup>th</sup> MCED Meeting in the ROK, in which APN participated.

Dr. A.P. Mitra, APN SPG member for India commented on the improved ratio of scientific expenditure against administrative expenses. His compliments went out to the Secretariat for their careful management. Dr. Mitra also mentioned the importance of high-level in-kind contributions made by member countries when hosting APN-related meetings and workshops, and performing research activities. The Chair thanked Dr. Mitra for his valuable comments and thanked the member countries for their strong and continued support with in-kind contributions.

#### **5. Evaluation of the APN**

The Chair introduced the background of the APN evaluation and the commission of the consultant, Mr Randal Helten. Mr. Helten briefed the IGM by summarising the evaluation process and highlighting the following points:

- Active involvement of all members in the process;
- The mission of the APN;
- Tools used during the evaluation including: a member survey, project leader assessments, external scientific expert reviews, etc.;
- Timeline for the evaluation process;
- Call for Proposals, including average amounts awarded and number of projects;

- Augmented Steering Committee Meeting to review APN's scientific themes against the six goals of the APN highlighted in the First Strategic Plan;
- Results showed that the APN had performed well in general; and
- Dr. Michael Stoddart, national Focal Point for Australia, congratulated the APN, the Secretariat and Mr. Randal Helten for extensively examining the past activities of the APN and the role of the APN in the future. Dr. Stoddart also strongly emphasised the importance of new partnerships for the APN.

The IGM congratulated Mr. Randal Helten and the Augmented Steering Committee Members for extensively examining the past activities of the APN and for laying the foundations for the future role for the APN as it enters into the Second Strategic Phase.

The IGM noted the following:

- The Evaluation Report is a useful tool for governments;
- It is important for the APN not only to develop partnerships with other Global Change programmes but also with political institutions in the region;
- In future the APN will need to enhance its response to emerging issues and connect more with member countries and their institutions;
- The APN needs to be relevant to its members. It is incumbent on the national Focal Points to bring the APN to the attention of national decision-makers and their respective governments; and
- Modest investments in the APN have been very impressive.

The Evaluation Report was accepted by the IGM.

**Action: APN Members**

## **6. APN Second Strategic Plan (2SP)**

Mr. Helten briefed the meeting on the process of writing the Second Strategic Plan (2SP). This included:

- Process timeline;
- Mission;
- Definitions for the APN;
- Goals;
- Three Agendas; Science, Policy, and Institutional; and
- Implementation and Evaluation.

After extensive discussion that included a general overview and a roundtable discussion, at which time each section was reviewed in detail, the IGM chair charged the consultant and the Secretariat with drafting a list of substantive amendments and editorial comments from members; this list was to be presented on Day Two of the IGM.

## **7. Institutional Issues**

Three institutional issues were discussed as highlighted below:

### **a. Membership Development**

Mr. Sombo Yamamura welcomed and recognised seven new national Focal Points and 3 new SPG members from APN member countries. Mr. Yamamura confirmed the continued efforts to find appropriate representation of the Pacific Island Countries with a range of potential organs. The following member countries have new national Focal Points: Bangladesh, Fiji, Mongolia, Nepal, Pakistan, Sri Lanka and Thailand. There are new SPG members for People's Republic of China, Sri Lanka, and Viet Nam.

### **b. Steering Committee Reform**

Mr. Kazuhiko Takemoto presented a draft Steering Committee (SC) proposal for SC

reform. This proposal would be discussed further on Day Two at an ad-hoc small group meeting. This meeting was open to any delegate from an APN member country.

### **c. Establishment of the Resources Development Committee**

Mr. Yukihiro Imanari introduced the proposal of a newly formed Resources Development Committee (RDC) within the SC. This proposal was to be discussed further on Day One at an ad-hoc small group meeting. This meeting was open to any APN member country delegate. The small group would present their recommendations to the IGM on Day Three.

## **SPG Session**

### **8. 2005/2006 APN-funded Activities**

It was announced that the total budget available for APN funded projects would be approximately US\$790,000; Dr. Andrew Matthews, SPG Co-Chair, presented this to the SPG for their approval. The Small Group recommended continuing Multi-Year Projects. Dr. Matthews emphasised that the recommendations were based on the progress reports, which were compared against the original aims and objectives stated in the project proposals, as well as other supporting evidence from project leaders.

Dr. Matthews then went on to explain the rationale behind the Small Group recommendations for funding proposals short-listed at Stage 2 of the Proposals Process. The SPG members' ratings for scientific excellence and average score were used as the main basis for the funding recommendations. Other major factors included written reviews by external reviewers drawn from the international global change community, budgetary aspects and regional balance. Dr. Matthews acknowledged APN's appreciation to the international peer-review global change community for extensively reviewing the proposals.

After an in-depth discussion on the proposals being recommended, the SPG agreed on the funding recommendations made by the Small Group as:

- 5 continuing multi-year projects;
- 15 new projects;
- 4 projects to receive a Seed Grant; and
- 1 project to be funded under CAPaBLE.

The SPG agreed that these funding recommendations be presented to the IGM for endorsement.

**Action: Scientific Planning Group**

**13 April – DAY TWO**

## **IGM and SPG Joint Session**

### **9. Annual Regional Call for Proposals and Project Management**

Dr. Linda Stevenson, Programme Manager for Scientific Affairs, gave an overview of the proposals process and project management in the past year. Dr. Stevenson highlighted specific information about pre-proposals, full proposals, the review process; the quality of the proposals received and project management. A marked improvement in the quality of proposals received was noted; potentially due to the success of the pre-proposal stage, the transparency of the proposals process and improvement of the guidelines for proponents. It was suggested that in the next call for proposals, a section requesting proponents to provide an extensive literature

review is to be included.

**Action: Secretariat and Steering Committee**

#### **10. Proposed New Activities 2005/2006**

Mr. Sombo Yamamura presented on proposed new activities that included:

- APN Advisor for 2SP Implementation in FY2005/2006;
- After intensive discussions the IGM approved up to US\$ 32,000 be made available for small expert consultancies to assist the APN Secretariat in advancing the implementation of the 2SP in consultation with the Steering Committee; and
- APN Capacity Building Workshop on Global Earth Observation System of Systems (GEOSS).

As part of a "partnership-based approach to capacity building" that is "tailored to suit regional or local requirements," a planning workshop on capacity building activities for GEOSS implementation in the Asia-Pacific region, organised by the APN, is proposed to convene in Japan in autumn 2005. This workshop aims to establish an appropriate methodology to effectively implement the capacity building component of GEOSS, as well as to discuss how to share the roles between key players. Target groups to be invited include representatives from: APN member countries, the Secretariat of the Group on Earth Observation (GEOSEC), international organizations, international funding agencies which participate in the GEO, and related ministries and independent administrative institutions.

The Japanese delegation emphasised that the priority area is climate change impacts and this initial workshop would invite potential donors to support a series of future meetings in the Asia-Pacific region. The IGM approved this activity as a positive and timely initiative that would enhance APN's capacity building capability. This activity is to function under the CAPaBLE Programme.

**Action: Steering Committee,  
CSC and Secretariat**

#### **IGM Session**

#### **11. Proposed Budget Plan for 2005/2006**

Mr. Yukihiro Imanari presented the proposed budget plan for 2005/2006. The IGM recommended that the contingency fund be used for programme development and for unforeseen projects that may arise throughout the fiscal year.

**Action: Secretariat**

#### **IGM and SPG Joint Session**

#### **12. APN Liaison Officers' Annual Reports**

- The APN Liaison Officers provided overviews of the past year's activities in Oceania, South Asia, Southeast Asia and Temperate East Asia. To enhance the role of Liaison Officers, the following points were discussed:
- Printing a limited number of hard copies of the APN quarterly newsletter for Liaison Officer distribution;
- More flexibility be given in the use of the Liaison Officer budget; and
- Liaison Officers, the Secretariat and APN Members continue to be proactive in strengthening communications.

**Action: APN Members, Liaison  
Officers, Secretariat**

#### **13. APN Global Change Coastal Zone Management Synthesis**

Professor Nick Harvey, Project Leader, presented the APN Global Change Coastal Zone Management Synthesis and, in particular, the key components of the first

output, the synthesis report, that was launched at this 10th IGM. The second synthesis output will be a scientific book on the new directions of global change coastal zone management in the Asia-Pacific region. The book will be published by Springer in 2006. The IGM noted the efforts of the synthesis team members, led by Professor Harvey in producing this outstanding synthesis report. The IGM recommended that, through this publication, a meeting or symposium should be arranged for policy-makers at the appropriate level to facilitate science-policy interface.

**Action: APN Members and Secretariat**

#### **14. APN Second Strategic Plan**

Mr. Randal Helten presented the 2SP revisions, based on IGM recommendations from Day One. Mr. Takemoto thanked Mr. Helten for his tremendous efforts at producing the 2SP. The IGM, recognising that the 2SP is a flexible document that concisely articulates what the APN is trying to achieve, adopted the 2SP by acclamation. The adopted 2SP is provided as **Attachment III**.

### **Scientific Symposium**

#### **“Contribution of APN-Evaluation of Vulnerability and Adaptation Measures in the Asia-Pacific Region – Focussing on Coastal Zones”**

The APN and the Ministry of the Environment, Japan (MOEJ) organised a Science Symposium on 13 April at the International Conference Centre to exchange information and views on (1) the latest global change related vulnerability studies, including extreme climate events and (2) adaptation measures of the coastal zones in the Asia-Pacific region. The symposium panel discussion was chaired by Dr. Nobuo Mimura and included presentations from: Dr. Shoji Kusunoki, Dr. Kiyoshi Takahashi, Prof. Toshiyuki Asano and Dr. Arshad Muhammad Khan, respectively.

**14 April – DAY THREE**

### **SPG Session**

#### **15. SPG Meeting: Election of SPG Co-Chairs**

Mr. Sombo Yamamura explained that two new SPG Co-Chairs have to be elected since, according to APN procedures, both Drs. Andrew Matthews and Amir Muhammed's term ends following the present IGM/SPG meetings. Mr. Yamamura, through Steering Committee consultation, proposed that Dr. Tsogtbaatar Jamsran, SPG member for Mongolia, be nominated to serve as SPG Co-Chair for a two-year term, and that Dr. Nobuo Mimura, SPG member for Japan, be nominated for a one-year term. The nomination was supported by SPG members and accepted by both Drs. Jamsran and Mimura.

### **IGM Session**

#### **16. Scientific Planning Group Report and APN Funded Activities (2005/2006)**

On behalf of the SPG, Dr. Andrew Matthews explained that the total budget available for APN funded projects would be approximately US\$ 790,000. Dr. Matthews presented to the IGM for their approval the SPG recommendations for continuing Multi-Year Projects. He emphasised that the recommendations were based on the progress reports, which were compared against the original aims and objectives stated in the project proposals, as well as other supporting evidence from project leaders.

Dr. Matthews then explained the rationale behind the recommendations for funding proposals short-listed at Stage 2 of the Proposals Process. The SPG members' ratings for scientific excellence and average score were used as the main basis for the funding recommendations. Other major factors included written reviews by the global change international community, budgetary aspects and regional balance. Dr. Matthews acknowledged the APN's appreciation to the international peer review community for providing detailed comments on Stage 2 proposals. After detailed discussion on the proposals being recommended, as well as the system used for scoring and ranking the proposals, the IGM agreed on the funding recommendations made by the SPG as follows:

- 5 continuing multi-year projects;
- 15 new projects;
- 4 projects to receive a seed grant;
- 1 project to be funded under CAPaBLE.
- 

The list of projects is provided as **Attachment IV**.

<b>IGM and SPG Joint Session</b>
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### 17. CAPaBLE Programme Update

Dr. Amir Muhammed presented an update on the CAPaBLE Programme by giving a brief history of CAPaBLE since its launch in March 2003. Dr Muhammed discussed the formation of the CAPaBLE Standing Committee and that it reports to the IGM annually and to the Steering Committee when acting on behalf of the IGM intersessionally. Dr. Muhammed then discussed the first Call for Proposals for Capacity Building that was distributed among member countries in December 2004. Dr. Muhammed confirmed that US\$ 105,000 from last year's budget, i.e. the 2004/2005 fiscal budget, was available for funding projects under this call, in which 13 proposals were received. Dr Muhammed continued his presentation by making a recommendation to the IGM that the first 4 proposals on the ranking list provided be awarded for funding with the 2004/2005 unspent budget of US\$ 105,000. Dr Muhammed then presented the available budget for 2005/2006 activities as outlined in the table below:

CAPaBLE Budget 2005/2006	Total: US\$ 520,000
1. MY Projects: Comprehensive Research	\$180,000
CRP (Shukla)	\$90,000 (max. pending review)
CRP (Khan)	\$90,000 (max. pending review)
2. MY Projects: Capacity Building	\$275,000
Multi-Year Project (Koshy)	\$50,000 (max. pending review)
Multi-Year Project (Nakane)	\$40,000 (max. pending review)
3. New Capacity Building Projects	\$185,000

Dr. Muhammed explained that from the available US\$ 520,000, US\$ 180,000 was allocated for two continuing multi-year comprehensive research projects and that US\$ 90,000 was allocated for two continuing multi-year capacity building projects. Therefore, US\$ 185,000 is available for new capacity building activities in 2005/2006. Recommendations were then made to the IGM that the remaining proposals, from the original 13, are returned with feedback and comments from reviewers and that the proponents are asked to rewrite and resubmit their proposals to compete for the available US\$ 185,000. It was clarified that only proposals considered suitable under the CAPaBLE Programme would be asked to resubmit. A deadline was confirmed for the end May 2005, with assurance from the Secretariat that all proponents would be

given a six-week timeframe for this process. The CSC would then convene in June 2005 and re-evaluate the updated proposals and, at the same time, evaluate any new proposals received from the APN membership. The CSC would then make their recommendations for funding to the SC for approval by end June, 2005.

A new call for proposals for capacity building activities will be launched after projects have been endorsed and the timeframe for the call would be in line with the Annual Regional Call for Proposals. Following extensive discussions, the IGM agreed to this process and endorsed four new capacity building projects and four continuing multi-year projects for funding in 2005/2006.

The list of projects is provided as **Attachment V**.

The discussion during this item is summarised as follows:

- Mr. Yasuo Takahashi confirmed that Japan strongly supports the continuation of CAPaBLE. This was reiterated by other members as well, including national Focal Points of Indonesia, New Zealand, and Japan. Mr. Takahashi is pleased with the progress of Dr. Arshad Khan, Project Leader of a Comprehensive Research Project who presented at the MOEJ Global Change Symposium held on Day Two of the meetings.
- Dr. Andrew Matthews, national Focal Point for New Zealand stated that he was pleased with the progress of CAPaBLE and that he appreciated the efforts of the international Global Change community for their active participation in the CAPaBLE Programme. He also stressed the relevance of APN support of the GEOSS capacity building under CAPaBLE. Dr. Matthews encouraged members to continue investing in CAPaBLE and recommended that it continues as a strong pillar of APN activities
- The CSC was asked to consider:
  - a. Devising an effective mechanism for communications between all members and stakeholders;
  - b. Clarifying in the proposal guidelines exactly what kinds of activities are of interest under the ARCP and CAPaBLE Call for CB Proposals, respectively;
  - c. Discussing effective ways to improve proposal-writing skills, particularly of proponents from developing countries;
  - d. Ensuring that Capacity Building experts who sit on the CSC have an understanding of the capacity needs of the developing countries of the APN;
  - e. Devising a mechanism to involve Liaison Officers and Members in capacity building efforts in their respective countries and sub-regions;
  - f. Reviewing the Conflict of Interest policy to ensure the integrity of the review process; and
  - g. Devising an effective mechanism for the evaluation of CAPaBLE be devised in collaboration with the international GC programmes
  - h. Ms. Liana Bratasida, national Focal Point of Indonesia urged all members to actively participate in APN activities and communications to proponents and project leaders should be carbon copied to the Focal Points and SPG members of their countries. She also highlighted that the role of national Focal Points is crucial in developing skills in proposal writing and enhancing the research capacity in the region.

**Action: APN Members, CSC, Steering  
Committee, Liaison Officers and  
the Secretariat**

## **18. Steering Committee Reform**

Mr. Kazuhiko Takemoto presented a paper outlining the suggested reform of the Steering Committee. Mr. Takemoto emphasised that there is not a great change and



that three Focal Points, one of whom will be from the country that agrees to host the next IGM/SPG meeting, and the two SPG Co-Chairs would make up the Steering Committee. Invited experts will also be invited to the Steering Committee as needed. Following his explanation, the members accepted the proposal as presented. The following nominations were presented to the IGM for endorsement:

- **Scientific Planning Group Co-Chairs:**

- Dr. Jamsran Tsgotbaatar

- Dr. Nobuo Mimura

- **National Focal Points:**

- Dr. Liana Bratasida, Indonesia

- Dr. Andrew Matthews, New Zealand

- Mr. Kazuhiko Takemoto, Japan

The following members were nominated as invited experts and will serve on the Steering Committee:

- **Invited Experts:**

- Mr. Louis Brown, NSF/USCCSP

- Dr. Roland Fuchs, START Secretariat

- Mr. Petipong Pungbun Na Ayudhya, Thailand

The proposal was accepted by acclamation.

**Action: Steering Committee**

## **19. APN Framework**

Ms. Jody Chambers, Programme Manager for Communications and Development, presented a timeline to revise the APN Framework Document, incorporating the Second Strategic Plan and changes to the membership of the Steering Committee. This would essentially be carried out by the Steering Committee and the Secretariat and presented to the IGM for endorsement at the 11th IGM.

**Action: Steering Committee, Secretariat**

## **20. Resources Development**

Dr. Michael Stoddart, Chair of the ad-hoc Resources Development Meeting presented the findings of the meeting to the IGM. The ad-hoc meeting convened to discuss the issue of the development of APN's future resources. Delegates from the following member countries participated in the meeting: Australia, China, Indonesia, Japan, Malaysia, ROK, Thailand and an observer from the NSF. The meeting recognised a major challenge faced by the APN was the restricted funding base of the organisation and that strenuous efforts were needed to find new sources of financial support.

The meeting recalled that the APN was established as an inter-governmental body charged with distributing funds provided by the Japanese and USA Governments. The 10<sup>th</sup> anniversary of its foundation is an appropriate time for it to examine how funds can be diversified and that the sources of funds needs to expand for the programmes and the relevance to the nations in the Asia-Pacific region. The meeting noted that the organisation needs to develop the capacity to identify research projects and seek funding, in addition to its role in the distribution of research funds.

The meeting recommends the establishment of a formal Resources Development Committee (RDC), to report to the Steering Committee, charged with developing APN's funding base. It recommends the RDC should consist of 5 or 6 members, being large enough to share its workload but not so large as to be unworkable. It considered the issue of who should chair the RDC and recommends that a Chair be appointed by the Steering Committee. The meeting expected that the task facing the

RDC, and particularly its Chair, would be very onerous requiring a high level of drive, energy and commitment to the aims and future of APN.

In considering how the RDC might approach its task the meeting considered that there were at least three major areas in which the RDC would have to work. The RDC would have to identify what value APN provides to a project that would not be provided by one, or more than one country working together. In other words, the RDC would have to define and clearly articulate the 'product'

**Action: Steering Committee**

### **21. Any Other Business (AOB)**

Mr. Sombo Yamamura, the APN Secretariat Director pointed out recent and future Secretariat staff changes. Outgoing staff were thanked for their tremendous contributions to the APN and the new staff was welcomed to the APN family.

### **22. Date and Venue of 11<sup>th</sup> IGM/SPG**

Mr. Sombo Yamamura informed the IGM/SPG that discussions with Thailand, regarding the hosting of the 11th IGM/SPG, are progressing well. Upon official approval the Secretariat will inform all APN members and observers of the venue and tentative date of the 11th IGM/SPG.

### **23. IGM/SPG Joint Closing**

The IGM Chair, Mr. Kazuhiko Takemoto, thanked the Vice Chair, Mr. Sovannora Ieng and SPG Co-Chairs, Drs. Amir Muhammed and Andrew Matthews for guiding the 10th IGM/SPG to success. Mr. Takemoto also thanked the participants for their open and active contributions and the Secretariat for its efforts during the past year. Mr. Sovannora Ieng expressed his gratitude on behalf of Cambodia, as a developing country, to have been given the unique opportunity for its national Focal Point to be the 10th IGM vice Chair. Mr. Sombo Yamamura, the APN Secretariat Director thanked the Ministry of Environment, Japan and the Hyogo Prefectural Government for hosting the IGM/SPG and expressed sincere thanks to Mr. Takemoto for skilfully chairing the IGM/SPG. He also thanked the participants for their outstanding efforts; particularly their acceptance of the evaluation report and the adoption of the Second Strategic Plan.

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## **SECTION II**

**Item Papers of the 10<sup>th</sup> APN Inter-Governmental  
Meeting  
and  
10<sup>th</sup> Scientific Planning Group Meeting**



**Opening Remarks - Mr. Seizo Matsumoto  
Vice Minister for Global Environmental Affairs  
Ministry of the Environment, Japan  
12 April 2005**

Good morning, distinguished guests, ladies and gentlemen.

I would like to welcome all of the distinguished delegates who are visiting Kobe to participate in the 10<sup>th</sup> Inter-Governmental Meeting and Scientific Planning Group Meeting of the APN.

On behalf of the Japanese Government, I would like to mention a few points regarding the contribution of the APN to the Asia-Pacific region.

**The Importance of the Asia-Pacific region**

The Asia-Pacific region comprises a variety of natural environments ranging from tropical forests to deserts, arid areas, high mountains and small islands, much of which are vulnerable to global change.

On the other hand, the Asia-Pacific region accounts for almost two-thirds of the world's population. In addition, its economic growth rate is the highest of any region in the world. The population growth rate and economic activity of this region means that it contributes to global climate change in a major way.

**The Mission of the APN**

The APN is an inter-governmental network; it was formally established in 1996. Its mission is to foster global environmental change research in the Asia-Pacific region, increase developing country participation in that research, and strengthen interactions between the science and policy-makers.

**The Contribution to the International Community**

The APN has steadily grown over the past decade to the point where it is recognised internationally as a global change research network, largely due to the active participation and strong commitment of member countries.

In particular, in 2003, the APN established the CAPaBLE programme. Under this program, capacity-building and enhancement activities for researchers in developing countries such as assessment of green house gas emissions and research on vulnerability to climate change have been implemented. I am grateful to Australia, New Zealand, and the United States for their dedication to the program, and to developing countries for extensive and active participation. I confidently believe that CAPaBLE activities will contribute to the evolution of scientific knowledge and the implementation of measures on climate change.

Furthermore, at the 3rd Earth Observation Summit held in February 2005 in Brussels, the 10-Year Implementation Plan for establishing a Global Earth Observation System of Systems (GEOSS) was adopted by Ministers from approximately 60 countries. Due to the APN's funded research projects and capacity-building activities, I am certain that the APN is in a position to positively contribute to earth observation systems in areas such as climate change and ecosystems.

### **The Contribution of Secretariat and Hyogo Prefecture**

As a result of these successful activities, the APN is recognised as a significant international network. I would like to thank the governments and experts from member countries as well as the APN Secretariat for their remarkable contributions. Furthermore, I would like to show appreciation for the significant contribution from the Hyogo Prefecture; it supports the Secretariat and its activities.

Ladies and Gentlemen, based on our 10-year efforts, I expect that the APN will go on to the next step towards a new era under the new APN strategic plan which will be adopted at this meeting. The Japanese Ministry of the Environment will continue its full commitment to APN activities. We strongly hope to realize further development of APN by making all the member countries cooperate with each other.

I would like to conclude by extending my sincere wish that dynamic discussion over the next three days will lead to the renovation of the APN.

Thank you for your attention.

**Welcome Address – Mr. Sombo Yamamura**  
**Director, APN Secretariat**  
**12 April 2005**

Thank you Mr. Matsumoto for your warm opening address and impressive remarks.

Honourable Mr. Seizou Matsumoto, Deputy Minister for Global Environmental Affairs, Japan, distinguished participants, ladies and gentlemen. My name is Sombo Yamamura, Director of the APN Secretariat. I am very pleased to meet you here today in Kobe for the APN's tenth anniversary and IGM/SPG.

First of all, on behalf of the APN Secretariat, I would like to express my special thanks to all the participants, who are attending the meetings far from their home land. This is a considerable commitment, one which we are extremely grateful of. At the same time, I would like to thank our stakeholders, in particular the **Japanese Ministry of the Environment and Hyogo Prefectural Government**. I also thank **Mr. Kazuhiko Takemoto**, the APN national Focal Point of Japan, and **Dr. Nobuo Mimura**, SPG Member of Japan, and also the staff of the **MOEJ and Hyogo Prefectural Government**, for all their help in hosting and organising the 10th IGM/ SPG meetings in Kobe; as well as yesterday's public forum and tomorrow's science symposium, which I hope you will attend.

We are pleased to have you all in Kobe particularly during one of the most beautiful times of the year; the well-known "cherry blossoms" have been in full bloom.

Ladies and Gentlemen, dear Colleagues: It was March and August 1996 when the First APN Inter-Governmental Meeting was held in Chiang Mai, Thailand and the Scientific Planning Group (SPG) meeting was held in Kuala Lumpur, Malaysia, respectively. Today, we have in attendance some of the national Focal Points and SPG members, who attended those meetings, while there are many new members here as well. Since then, the APN's activities have developed and been promoted through the tremendous and sustained efforts of member countries, stakeholders, our global change partners (many of whom are here today), and the Secretariat. As ten years is a major milestone, the tenth anniversary meeting was considered to be an appropriate time to review activities so as to learn from the past and plan for the future.

Moreover, the five years, after the First Strategic Plan was launched in 1999, coincides with the establishment of a full time Secretariat in Kobe with a full time Secretariat Director in that same year, 1999. Over the past twelve months, the Secretariat has worked with Randy Helten, a consultant to the APN, on the Evaluation Report and preparation of the Second Strategic Plan. I am very pleased to have been able to submit the report of Institutional and Scientific Evaluation to this meeting for endorsement and the draft Second Strategic Plan for approval. Taking this opportunity, I would like to emphasize the importance of the sessions on days 1 and 2 in this regard.

As you are aware, all the functions of the APN Secretariat were transferred to the

Institute for Global Environmental Strategies (IGES) last April and thus introduced some innovative measures, including an independent APN account. The year 2004/2005 was the first year under this new arrangement and we fully recognized its efficiency and the benefit from the flexibility of the new financial system. This will be explained in more detail in the Financial Report of 2004/2005 on day 1.

Without doubt, there is a growing national, regional and global awareness of the APN and its potential role is highly regarded by international initiatives such as the Global Earth Observation System of Systems. With these recent changes in mind, we should think more about how the APN's status can become more robust. Indeed, an important proposal has been submitted by the Steering Committee in this regard. This will be explained in more detail during the Institutional issues session on day 1 and the Steering Committee Reform session on day 3.

Indeed, we have many important agenda issues to consider during this meeting, especially to establish the APN's future course as we enter our second strategic phase. I am sure that this joint 10<sup>th</sup> IGM/SPG meeting, with both the APN policy and scientific communities here in Kobe, will be a milestone event in the history of APN. I look forward to your positive contributions and cooperation throughout the next three days and beyond; as we implement the Second Strategic phase.

Thank you very much.

**(DRAFT) Agenda**  
**Annual Meeting of the Asia-Pacific Network for Global Change Research (APN)**  
**10<sup>th</sup> Inter-Governmental Meeting and Scientific Planning Group Meeting**  
**Kobe, Japan, 12-14 April 2005**

Time	12 April - Day 1		Time	13 April - Day 2		Time	14 April - Day 3	
	IGM	SPG		IGM	SPG		IGM	SPG
0920-0930	<b>Opening</b> Mr. Seizo Matsumoto Vice Minister for Global Environmental Affairs Ministry of the Environment, Japan		0830-0915	<b>Time Slot Allocation for Ad-hoc Issues</b>		0845-0930	<b>IGM Observe</b>	SPG Meeting Election of SPG Co-Chairs  <b>Other Business</b> Members may raise issues of concern that have not already been addressed <i>(Item 12)</i>
0930-0940	<b>Welcome</b> Mr. Sombo Yamamura Director, APN Secretariat		0915-0945	<b>Annual RCP* Process and Project Management</b> APN Secretariat, Dr. Linda Stevenson <i>(Item 7)</i>  *Regional Call for Proposals		0930-1030	<b>Scientific Planning Group Report and APN Funded Activities (2005/2006)</b> Dr. Andrew Matthews, SPG Co-Chair, will present the SPG report and seek IGM approval of SPG recommendations for funded activities in 2005/2006 <i>(Item 13)</i>	<b>SPG Observe</b>
0940-0955	Group Photograph							
0955-1005	<b>Election of Officers</b> Delegates will elect a chair from the host country and a vice chair from a member country (Separate SPG sessions will be chaired by the SPG Co-Chairs)		0945-1005	Proposed New Activities for 2005/2006 APN Secretariat, Mr. Sombo Yamamura <i>(Item 8)</i>				
1005-1010	<b>Adoption of Agenda</b> <i>(Item 1)</i>		1005-1025	<b>Proposed Budget Plan for 2005/2006</b> APN Secretariat Mr. Yukihiro Imanari <i>(Item 9)</i>	<b>SPG Observe</b>			
1010-1040	<b>Review of 2004/2005 Activities</b> APN Secretariat, Mr. Martin Rice <i>(Item 2)</i>		1025-1040	Coffee Break				
1040-1055	<b>Financial Report of 2004/2005</b> APN Secretariat Mr. Yukihiro Imanari <i>(Item 3)</i>	<b>SPG Observe</b>	1040-1140	<b>APN Liaison Officers Annual Reports</b>  <ul style="list-style-type: none"> <li>• <b>Oceania</b>, Ms. Mosmi Bhim</li> <li>• <b>South Asia</b>, Dr. Chhemendra Sharma</li> <li>• <b>Southeast Asia</b>, Dr. Anond Snidvongs</li> <li>• <b>Temperate East Asia</b>, Ms. Ying Yang <i>(Item 10)</i></li> </ul>		1030-1100	Coffee Break	
			1140-1200	<b>APN Global Change Coastal Zone Management Synthesis</b> Prof. Nick Harvey, Synthesis Project Leader <i>(Item 11)</i>		1100-1200	<b>CAPaBLE Programme Update (2004/2005)</b> CSC member and SPG Co-Chair, Dr. Amir Muhammed <i>(Item 14)</i>	
			1200-1220	<b>APN Second Strategic Plan</b> The 2SP will be presented for endorsement <i>(Item 4 continued)</i>				
1055-1115	Coffee Break		1220-1400	Lunch		1200-1330	Lunch	

April 12 - Day 1			April 13 - Day 2			April 14 - Day 3		
Time	IGM	SPG	Time	IGM	SPG	Time	IGM	SPG
1115-1215	<b>Evaluation of APN</b> Mr. Randal Helten, Consultant to the APN, will describe the preparation process and present the APN evaluation report for endorsement <i>(Item 4)</i>		1400-1730	<b>APN 10<sup>th</sup> Anniversary Global Change Science Symposium</b>  (Organised by the MOEJ)		1330-1445	<b>Steering Committee Reform</b> (SC member) <i>(Item 15)</i>	
1215-1330	Lunch					1445-1500	<b>APN Framework (11<sup>th</sup> IGM)</b> APN members will be informed of an annual work plan to incorporate second phase reforms into the APN Framework for endorsement at the 11 <sup>th</sup> IGM. APN Secretariat, Ms. Jody Chambers <i>(Item 16)</i>	
1330-1530	<b>APN Second Strategic Plan (2SP)</b> Mr. Randal Helten, Consultant to the APN, will present the preparation process for the 2SP <i>(Item 4 continued)</i>					1500-1515	Coffee Break	
1530-1600	<b>Institutional Issues</b> <ul style="list-style-type: none"> <li>Membership Development, APN Secretariat, Mr. Sombo Yamamura</li> <li>Steering Committee Reform, SC member</li> <li>Establishment of Resources Development Committee, SC member</li> </ul> <i>(Item 5)</i>					1515-1545	<b>Resources Development</b> Resources Development: Report from meeting held on day 1. (RDC Meeting Chair) <i>(Item 17)</i>	
1600	<b>IGM/SPG Session Adjourns</b>					1545-1600	<b>Other Business</b> Members may raise issues of concern that have not already been discussed <i>(Item 18)</i>	
1600-1615	Coffee Break					1600-1605	<b>Date and Venue of 11<sup>th</sup> IGM/SPG</b> <i>(Item 19)</i>	
1615-1715	<b>Informal Sub-Region* Meetings with APN Liaison Officers and IGM Members</b>  *Oceania, SA, SEA, TEA	<b>2005/2006 APN Funded Projects</b> Dr. Andrew Matthews, SPG Co-Chair, will recommend MY projects and proposals for funding to the SPG for discussion and approval. <i>(Item 6)</i>	1730	<b>Symposium Adjourns</b>		1605-1700	<b>Chairperson's Summary</b> <i>(Item 20)</i>	
1715-1815	<b>Ad Hoc Committee Meeting on Resources Development</b> Topics for discussion will include: Committee membership, mandate, operational mode and future strategy. Meeting will be led by the appointed Chair of this Committee (TBA).	<b>Informal Sub-Region* Meetings with APN Liaison Officers and SPG Members</b>  *Oceania, SA, SEA, TEA				1700	<b>IGM and SPG Joint Closing</b> Chair and Director, APN Secretariat	
1900-	<b>Reception Dinner</b> (hosted by APN)					1800-	<b>Reception Dinner</b> (hosted by MOEJ)	

## Review of 2004-2005 Activities

This paper is a summary of work undertaken by the APN since the 9<sup>th</sup> IGM in Canberra, Australia.

### Outstanding Activities since 9<sup>th</sup> IGM/SPG

- Completed evaluation of APN activities (1996-2004)
- Prepared evaluation report and Second Strategic Plan
- APN Programme Fellows (capacity building)
- Produced the APN global change coastal zone synthesis report

### Publicity/Communications

- Distributed first APN annual report (2003/2004)
- Quarterly newsletters issued
- APN activities featured on national and local newspapers, radio and TV
- Disseminated APN information at national and international fora
- Produced CAPaBLE brochure and poster
- Published the APN global change coastal zone synthesis report
- Published the APN project and regional reports 2004/2005
- Produced (courtesy of NIWA) custom made posters
  - APN (general)
  - CAPaBLE programme
  - Climate calamities and human health
- Produced proceedings of the APN/WHO public forum on climate calamities and human health (World Conference on Disaster Reduction)
- Produced an APN brochure in Japanese for local outreach activities
- The APN Secretariat/APN members attended/made presentations at:
  - GEO-4 and EOS-II. Tokyo, Japan. 22-23 April 2004
  - Environment Congress for Asia and the Pacific (ECO ASIA 2004) Yonago, Tottori Prefecture, Japan. 19-20 June 2004
  - 14<sup>th</sup> Asia-Pacific Climate Change Seminar. Sydney, Australia. 21-24 September 2004
  - ESCAP Subcommittee on Environment and Sustainable Development First Session. Bangkok, Thailand. 29 September – 1 October 2004
  - 16<sup>th</sup> IGFA Meeting. Reykjavik, Iceland. 6-8 October 2004
  - 2<sup>nd</sup> AIACC Regional Workshop for Asia and the Pacific. Manila, Philippines. 2-5 November 2004
  - APN Global Change Coastal Zone Management Synthesis Workshop. Kobe, Japan. 8-10 November 2004
  - APN/WHO Public Forum on Climate Calamities and Human Health. World Conference on Disaster Reduction. 22 January 2005
  - START SSC. Amsterdam, the Netherlands. 7-9 February 2005
  - GEO-6 and EOS-III. Brussels, Belgium. 14-16 February 2005
  - APN/IGBP/UNESCAP Symposium on Global Change, Environment and Development. The Fifth Ministerial Conference on Environment and Development in Asia and the Pacific 2005. Seoul, Republic of Korea. 24-25 March 2005
- APN members and Secretariat staff also attended the following APN funded project meetings:
  - 2003-CRP-Theme II. Integrated Assessment Model for Developing

Countries and Analysis of Mitigation Options and Sustainable Development Opportunities. Bangkok

- CAPaBLE 2003-CB01. Capacity Building for Greenhouse Gas Inventory Development in Asia-Pacific Developing Countries. Laos
- CAPaBLE 2003-CB02. PICs Training Institute on Climate Extremes. Fiji
- CAPaBLE 2003-CB04. (APN-IAI) Creating Climate Knowledge Networks through Strategic, Global Linkages. Australia
- CAPaBLE 2003-CB05. Climate Change Mitigation with Locally Owned Technology and Systems. Japan
- CAPaBLE 2003-CB06. UNFCCC Workshop. Philippines
- CAPaBLE 2003-CB07. Capacity Building Workshop. Pakistan
- CAPaBLE 2004-CB05. GHG Inventories in Asia Region. China
- APN 2004-02-CMY. Water Resources. Thailand
- APN 2004-07-CMY. Integrating Carbon Management into Development Strategies of Cities—Establishing a Network of Case Studies of Urbanisation in the Asia-Pacific. Thailand
- APN 2004-09-NSY. Biodiversity Measures in Different Biomes: The Challenge for the Next Decade. Cambodia
- APN 2004-14-NMY. MAIRS Rapid Assessment for East Asia. China
- APN 2004-16-NSY. Groundwater Discharge as an Important Land-Sea Pathway in Southeast Asia. Thailand
- APN 2004-18-NMY. Climate Variability and Human Activities in Relation to Northeast Asia and their Land-Ocean Interactions and their Implications for Coastal Zone Management. China

### **Programme Development**

- Evaluation of the APN
- Second Strategic Plan
- Annual Regional Call for Proposals
- CAPaBLE Programme
- Synthesis activities



**Financial Report (Final) FY 2003/2004**

	<b>Draft Budget</b>	<b>Financial Report (Draft)</b>	<b>Financial Report (Final)</b>
<b>1. INCOME</b>	<b><u>2,065,470</u></b>	<b><u>2,176,400</u></b>	<b><u>2,182,000</u></b>
Ministry of the Environment of Japan	1,428,000	1,525,000	1,525,000
Hyogo Prefecture	280,000	299,000	299,000
NSF/USCCSP	340,270	330,000	336,000
Environment Australia through Australian Greenhouse Office (AUS\$ 30,000)	17200	17,200	17,200
Ministry of Foreign Affairs and Trade, New Zealand (NZ\$ 10,000)		5,200	5,200
<b>2. EXPENDITURE</b>	<b><u>2,065,470</u></b>	<b><u>2,176,400</u></b>	<b><u>2,182,000</u></b>
<b>A. Scientific Activities</b>	<b>1,527,200</b>	<b>1,588,000</b>	<b>1,584,000</b>
Approved Projects from Regular Call for Proposals Process	752,000	740,000	740,000
CAPaBLE CRP	280,000	240,000	240,000
CAPaBLE CB Projects	257,000	243,000	243,000
CAPaBLE Project Development Workshop (Kobe, Japan)	0	10,000	11,000
1st Coastal Zone Management Synsthesis Woekshop	0	16,000	10,000
EMECS 2003 (Bangkok, Thailand)	0	17,000	17,000
LUCC Synsthesis Report	0	10,000	10,000
Brochures on APN (English and Japanese) and CAPaBLE Programme	0	20,000	21,000
Local Outreach Meeting (Tokyo, Japan)	0	2,500	2,000
Consultancy Fee for Evaluation and Second Strategic Plan	0	40,000	40,000
Asia-Pacific Environmental Innovation Strategy Project (APEIS)	40,000	40,000	40,000
Travel Support for Scientific Activities	14,400	14,000	16,000
Inter-Governmental Meeting and Scientific Planning Group Meeting	88,000	120,000	115,000
Networking	24,000	0	0
Liaison Officers	28,800	31,500	26,000
Publications	42,800	44,000	53,000
<b>B. Administrative Expenses</b>	<b>538,270</b>	<b>588,400</b>	<b>598,000</b>
Travel Costs	32,800	32,200	35,000
Salaries and Social Welfare	282,000	313,600	325,000
Communications, Postage	26,400	24,000	21,000
Others	125,670	141,000	140,000
APN's Contribution to AIRIES Overheads	71,400	77,600	77,000

**Financial Report (Draft) 2004/2005**

**Revenues in FY 2004/2005**

		<b>US\$</b>
<b>Revenues</b>	MOEJ <sup>1)</sup>	1,440,000
	Hyogo Prefectural Government	305,000
	NSF/USCCSP	380,000
	Environment Australia through AGO (AUS\$ 30,000)	21,000
	Ministry for the Environment through NZ Climate Change Office	6,000
	<b>Revenues Total</b>	<b>2,152,000</b>

1) Including additional JPYen 9,900,000 from the MOEJ as "restricted funds", to be used by 31 March 2005.

**Expenditures in FY 2004/2005**

		<b>US\$</b>
<b>Expenditures</b>	Expenses made in US\$	1,321,000
	Expenses made in JPYen	695,000
	Total Expenditures in FY 2004/2005	2,016,000
	Total Carry Over to FY 2005/06	136,000
<b>Equal to Total Revenue FY 2004/2005</b>		<b>2,152,000</b>

## Detailed Breakdown of the Financial Report (Draft) FY 2004/2005

	Budget US\$	Actual Expenses US\$		Budget JPYen	Actual Expenses JPYen
		USA <sup>1)</sup>	Other Countries <sup>2)</sup>		
<b>Scientific Activities</b>	ARCP	760,000	330,000	430,000	
	CAPaBLE				
	CRP	191,000		180,000	
	CB	315,000	45,000	268,000	
	1st CSC Meeting			0	480,000
	Posters	0		4,000	
	CZM Synthesis	52,000		50,000	
	WCDR Side Event APN/WHO			1,725,000	1,500,000
	Earth Observation	4,000		4,000	
	Eminent Scientists Symposium (MCED)	0		10,000	
	2SP + Evaluation Report			2,530,000	2,300,000
	Fellowship Programme			2,420,000	3,800,000
	Travel for Scientific Purposes			3,500,000	2,400,000
	IGM/SPG (incl. SC Mtg.)			12,650,000	12,300,000
	Liaison Officers			3,600,000	3,600,000
	Publications			3,910,000	2,380,000
Website Management			230,000	155,000	
<b>Administrative Expenses</b>	Travel for Administrative Purpposes			2,420,000	1,350,000
	Salaries and Related Costs				
	Salaries			30,400,000	30,350,000
	Insurance and Social Welfare			4,830,000	5,230,000
	Contribution to Severance Payment Fund			1,270,000	1,050,000
	Communications, Postage, General Office Expenses			3,000,000	1,950,000
	Leasing of Office Equipment			1,800,000	2,260,000
	PC and Server			2,100,000	2,350,000
	Interest on Loan			1,150,000	900,000
	Tax			170,000	12,000
	Depreciation on Fixed Assets			690,000	0
	Bank Charges/Remittance Fee			0	170,000
	Miscellaneous			230,000	185,000
	Equipment Transfer			290,000	150,000
	Payment to AIRIES			575,000	690,000
	APN's Contribution to IGES' Adm. Overheads			4,660,000	4,650,000
	<b>Total</b>	<b>1,322,000(A)</b>	<b>375,000(B)</b>	<b>946,000(C)</b>	<b>84,150,000(D)</b>

1) Expenses made in US\$ using US contributions.

2) Expenses made in US\$ using contributions from Australia, Japan and New Zealand.

**Carry Over from FY 2004/05 to FY 2005/06**

Gains through Exchange Rate: Total Expenses made in US\$ using Contribution from Australia, Japan and New Zealand ( C ) x (115.00 - 109.62) / 108.00	US\$ 47,000
Savings made in JPYen Expenses (D) - (E) / 108.00	US\$ 88,000 <sup>1)</sup>
Sub Total	US\$ 135,000
Savings made in US\$ Expenses (A) - ((B) + (C)):	US\$ 1,000
<b>Total Carry Over to FY 2005/2006:</b>	<b>US\$ 136,000 (F)</b>

1) Including remaining funds freed by the MOEJ's "Restricted Funds".

## Membership Development

### APN Members (national Focal Points and SPG members)

Following the 9th IGM in Canberra, new national Focal Points were appointed from seven member countries, in addition to new SPG members from three member countries. However, the role of national Focal Point for the Russian Federation and SPG member for Bangladesh are still vacant. The Secretariat will seek assistance from these APN members to nominate a national Focal Point and SPG member, respectively.

<b>FP</b>	<b>Former</b>	<b>Current</b>
Bangladesh	Mr. S.M. Kamruzzaman	Mr. Quazi Liaquat ALI
Fiji	Mr. Bhaskaran Mair	Mr. Cama TUILOMA
Mongolia	Ms. P. Baigalmaa	Mr. Bayarbat DASHZEVEG
Nepal	Mr. Ashok Kumar Saraf	Mr. Swoyambhu Man AMATYA
Pakistan	Mr. Khalid Khan Toru	Mrs. Shaher Bano WALAJAHI
Sri Lanka	Mr. Thosapala Hewage	Mr. Anura JAYATILAKE
Thailand	Dr. Plodparsop Suraswadi	Mr. Petipong PUNGBUN NA AYUDHYA
<b>SPG</b>	<b>Former</b>	<b>Current</b>
China	Prof. Zong-ci Zhao	Dr. Wenjie DONG
Sri Lanka	Mr. N.A. Amaradasa	Mr. G.H.P. DHARMARATNA
Viet Nam	Dr. Dung Le	Ms. Nga MAI NGOC

### APN Membership

Pursuant to recommendation from the 9th IGM/SPG, the Secretariat communicated with Brunei and Singapore to inform and sensitise them of APN activities; however, further follow-up is needed to facilitate their participation. Furthermore, endeavours to find appropriate representation of Pacific Island Countries will also continue with a range of potential organs.

## Draft Steering Committee Proposal: SC Reform

### 1. Function

The APN Steering Committee acts on behalf of the APN members between IGMs and also provides advice and guidance to the Secretariat during this period.

### 2 Members

- Focal Points (3), including one from the country to host the next IGM;
- SPG Co-chairs (2); and
- If an SPG Co-chair is also a Focal Point, then another Focal Point will be added.

### 3. Procedure to elect SC members

- The IGM will elect the Steering Committee members.

### 4. The Chair

- The Steering Committee will elect its Chair from among its members.

### 5. Experts

- The Steering Committee may invite additional experts upon its agreement.

### 6. Term

- The Chair; two years with possible extension of one additional term (two years).
- The host country; one year; and
- Other members; two years with possible extension of one additional term (2 years).

### 7. Meetings

- The Steering Committee will normally have one intercessional meeting each year, and additional meetings back-to-back with the IGM as necessary.

### 8. Support

- The APN Secretariat will provide the Steering Committee and its meetings with the necessary support.

## Resources Development Committee

In order to work intensively and effectively on the important issues relating to funding and other resources, the "Report of Institutional and Scientific Evaluation of Phase 1" strongly recommends the establishment of a Resources Development Committee (RDC). These recommendations are also incorporated into the APN Second Strategic Plan (Second Phase, 2005-2009).

In light of preparations for the official establishment of the RDC by the 10<sup>th</sup> IGM on day 3, the members of the Ad Hoc Resources Development Committee<sup>1</sup> are requested to start to discuss on issues necessary for the successful implementation of the recommendations and strategies stated in the aforementioned documents.

While some details of the structure and methodology of the work of the RDC will be intensively addressed among members of this new committee after the closing of the 10<sup>th</sup> IGM, the members of the Ad Hoc Resources Development Committee are requested to discuss salient issues (as shown below), during the 10<sup>th</sup> IGM. Some members of the Steering Committee will also attend this meeting. The chairperson of the Ad Hoc Resources Development Committee will report the outcomes to the 10<sup>th</sup> IGM on day 3.

Issues to be discussed by the Ad Hoc Resources Development Committee include:

- Digestion of the recommendations on funding and other resources made in the Report of Institutional and Scientific Evaluation of Phase 1;
- Recommendation on the establishment of the RDC to the IGM;
- Membership of the RDC and nominations for the chairperson of the RDC; and
- RDC's initial work plan for the period immediately after the 10<sup>th</sup> IGM.

Issues to be discussed in detail over the coming months by the RDC may include:

- RDC mandate/terms of reference;
- Operational mode (means of communications, etc);
- Future strategy (how to approach potential donors, etc); and
- Detailed time line and operation plan.

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<sup>1</sup> When the Ad Hoc Resources Development Committee was established in March 2003 in Hanoi, Viet Nam at the 8<sup>th</sup> IGM/SPG, the following member countries volunteered to take part: Australia, China, Japan, Malaysia, New Zealand, Republic of Korea, Sri Lanka, Thailand, and the USA.

## 2005/2006 APN Funded Projects

2004 Project Number	Project Number	Title	Theme	Main Activity	Keywords	Regional Focus	Countries involved	PI, Institution & country	Email	Proposal History	IGM Recommended		
											2005 Funds	Yrs Total	Negotiated
2004-11-NMY	APN2005-01-CMY	<b>Institutional capacity in natural disasters risk reduction: A comparative analysis of institutions, national policies, and cooperative responses to floods in Asia</b>	human dimensions of global change	research	disaster risk reduction to flooding	SEA, TEA	Japan, Russia, Thailand, Viet Nam	E. Nikitina, Russian Academy of Sciences, RUSSIA	<a href="mailto:enikitina@mtu-net.ru">enikitina@mtu-net.ru</a>		45,000		
2004-12-NMY	APN2005-02-CMY	<b>Role of institutions in global environmental change</b>	human dimensions of global change	research, capacity building	global change	SA	India, Nepal, Sri Lanka	S. Sonak, TERI, INDIA	<a href="mailto:ssonak@teri.res.in">ssonak@teri.res.in</a>		0		
2004-13-NMY	APN2005-03-CMY	<b>Synergy between ecosystem change and biodiversity studies in the Western Pacific and Asia: Establishing case studies for carbon management and biodiversity conservation</b>	changes in terrestrial ecosystems & biodiversity	research	DIWPA, carbon management, biodiversity	SEA, SA, TEA	China, Indonesia, Japan, Philippines, Russia, Sri Lanka	K. Kitayama, Kyoto University, JAPAN	<a href="mailto:kitayama@ecology.kyoto-u.ac.jp">kitayama@ecology.kyoto-u.ac.jp</a>		39,860		
2004-14-NMY	APN2005-04-CMY	<b>Integrated regional studies of global change in monsoon Asia: Phase 1: APN/SCOPE/START rapid assessment project of global change in Monsoon Asia</b>	cross-cutting issue	assessment	global change assessment	Pan Asia	All countries in Asia	A. Snidvongs, SEA START RC, THAILAND	<a href="mailto:anond@start.or.th">anond@start.or.th</a>		45,000		
2004-18-NMY	APN2005-05-CMY	<b>Climate variability and human activities in relation to Northeast Asia and their land-ocean interactions and their implications for coastal zone management</b>	Changes in Terrestrial Ecosystems and Biodiversity, Climate Change & Variability, Cross-Cutting Issue, Human Dimensions of Global Change	research	CC, Land-Ocean & CZM	TEA	Russia, ROK, P.R. China	V. Kasyanov, Russian Academy of Scientists, RUSSIA	<a href="mailto:vlkasyanov@freemail.ru">vlkasyanov@freemail.ru</a>		60,000		
	APN2005-06-NSY	<b>PAGES SECOND OPEN SCIENCE MEETING</b>	All themes	Open Science Meeting	PAGES (Past Global Change)	Pan AP	Australia, India, Japan, Nepal, New Zealand, Philippines, PR of China, Russian	J. Brigham-Grette, University of Massachusetts, USA	<a href="mailto:juliebg@geology.umass.edu">juliebg@geology.umass.edu</a>	Pre-proposal submitted	25,000	1	



							Federation, Thailand, USA						
APN2005-07-NMY	<b>Standardization and Systematization of Carbon-budget Observation in Asian Terrestrial Ecosystems Based on AsiaFlux Framework</b>	Changes in Atmospheric Composition, Changes in Terrestrial Ecosystems and Biodiversity, Human Dimensions of Global Change	Workshop	Carbon-budget Observation, terrestrial ecosystem, flux measurement	SA, SEA, EA	Bangladesh, Indonesia, Japan, Republic of Korea, Thailand	S. Yamamoto, National Institute of Advanced Industrial Science and Technology, JAPAN	<a href="mailto:yamamoto.emtech@aist.go.jp">yamamoto.emtech@aist.go.jp</a>	Pre-proposal submitted	<b>25,000</b>	<b>2</b>		
APN2005-08-NSY	<b>The Surface Ocean - Lower Atmosphere Study (SOLAS) International Summer School 2005: Attendance of young scientists from the APN region.</b>	Changes in Atmospheric Composition, Changes in Coastal Zones and Inland Waters, Climate Change and Variability, Human Dimensions of Global Change	Workshop	Surface ocean-lower atmosphere system, Biogeochemical-physical interactions	Oceania, EA	Australia, India, Japan, New Zealand, P. R. China, Republic of Korea, Russian Federation, USA	G. Shi, Chinese Academy of Sciences, CHINA	<a href="mailto:shigy@mail.iap.ac.cn">shigy@mail.iap.ac.cn</a>	New	<b>15,000</b>	<b>1</b>		
APN2005-09-NSY	<b>The 2005 Open Meeting of the Human Dimensions of Global Environmental Change Research Community</b>	Human Dimensions of Global Change	Open meeting	Human Dimensions, Global Change Research	Pan AP	Australia, USA, Bangladesh, Cambodia, Fiji, India, Indonesia, Japan, Lao PDR, Malaysia, Mongolia, Nepal, New Zealand, Pacific Island Countries, Pakistan, Philippines,	L. Srivastava, The Energy and Resources Institute, INDIA	<a href="mailto:leena@teri.res.in">leena@teri.res.in</a>	Pre-proposal submitted	<b>25,000</b>	<b>1</b>		

							P.R. China, Republic of Korea, Russian Federation, Sri Lanka, Thailand, Viet Nam						
APN2005-10-NSY	<b>Development and Application of Climate Extreme Indices and Indicators for monitoring Trends in Climate Extremes and their Socio-economic Impacts in South Asian Countries.</b>	Climate Change and Variability	Training workshop, Research	Climate Extreme Indices	SA, Oceania	Australia, Bangladesh, India, Nepal, Pakistan, Sri Lanka, USA	M. M. Sheikh, Global Change Impact Studies Centre (GCISC), PAKISTAN	<a href="mailto:mmunirsheikh@yahoo.com">mmunirsheikh@yahoo.com</a> , <a href="mailto:gcisc@comsats.net.pk">gcisc@comsats.net.pk</a>	New	<b>35,000</b>	<b>1</b>		
APN2005-11-NSY	<b>DIVERSITAS First Open Science Conference 2005: Travel fund for scientists from developing countries in the Asia Pacific region</b>	Climate Change and Variability, Changes in Terrestrial Ecosystems and Biodiversity, Human Dimensions of Global Change	Open Science Conference, Travel Support	change in terrestrial and marine biodiversity, human dimension	SA, EA	India, Japan, P. R. China	K. S. Bawa, Ashoka Trust for Research in Ecology and the Environment, INDIA	<a href="mailto:kamal.bawa@umb.edu">kamal.bawa@umb.edu</a>	New	<b>15,000</b>	<b>1</b>		
APN2005-12-NSY	<b>Vulnerabilities of the carbon-climate system: Carbon pools in Wetlands/Peatlands as positive feedbacks to global warming</b>	Climate Change and Variability, Changes in Terrestrial Ecosystems and Biodiversity	Synthesis of current datasets, modelling analysis, assessment, workshop	carbon-climate system, global warming	EA, SEA, Oceania	Australia, Indonesia, Japan, Malaysia, P. R. China, Russian Federation	F. Parish, Global Environment Centre, MALAYSIA	<a href="mailto:fparish@ge.net.po.my">fparish@ge.net.po.my</a>	New	<b>50,000</b>	<b>1</b>		

APN2005-13-NSY	<b>Supporting regional capacity contributions to LOICZ II development at the IGBP/IHDP LOICZ II Inaugural Open Science Meeting 27-29 June 2005.</b>	Changes in Coastal Zones and Inland Waters, Human Dimensions of Global Change	Open Science Meeting, Workshop, Travel support	Land-Ocean Interactions in the Coastal Zone, natural and human dimension, earth system, regional coastal sustainability	Pan AP	Australia, Bangladesh, India, Philippines, Russian Federation, Sri Lanka, Thailand	F. Lansigan, UPLB, Philippines	<a href="mailto:fpl@instat.uplb.edu.ph">fpl@instat.uplb.edu.ph</a>	New	<b>15,000</b>	<b>1</b>	
APN2005-14-NSY	<b>Community relocation as an option for adaptation to the effects of climate change and climate variability in Pacific Island Countries (PICs)</b>	Human Dimensions of Global Change	Research, Workshop	community relocation, climate change variability	Oceania	New Zealand, Pacific Island Countries, USA	J. Campbell, University of Waikato, NEW ZEALAND	<a href="mailto:jrc@waikat.ac.nz">jrc@waikat.ac.nz</a>	submitted in 2003, backup for funding	<b>45,000</b>	<b>1</b>	
APN2005-15-NSG	<b>Climate change impacts on the ecology of the rice pest complex and the resulting threat to food security and farming economy in South Asia.</b>	Climate Change and Variability, Changes in Terrestrial Ecosystems and Biodiversity, Human Dimensions of Global Change	Synthesis of current datasets	rice pest complex, food security,	SA	Bangladesh, India, Pakistan, Sri Lanka	N. Pallewatta, University of Colombo, SRI LANKA	<a href="mailto:nirmalip@sltnet.lk">nirmalip@sltnet.lk</a> , <a href="mailto:nimmi@zology.cmb.ac.lk">nimmi@zology.cmb.ac.lk</a>	Pre-proposal submitted	<b>15,000</b>	<b>SG</b>	
APN2005-16-NSY	<b>Asian Neighbours Network: Training Through Research</b>	Climate Change and Variability, Human Dimensions of Global Change	Research, Workshop, e-learning	Training Through Research, Global Change	Pan AP	Australia, Fiji, India, Indonesia, Japan, Malaysia, New Zealand, Pacific Island Countries, Philippines, P. R. China, Republic of Korea, Thailand, Viet Nam	C. G. Skilbeck, University of Technology, Australia	<a href="mailto:g.skilbeck@uts.edu.au">g.skilbeck@uts.edu.au</a>	New	<b>15,000</b>	<b>1</b>	

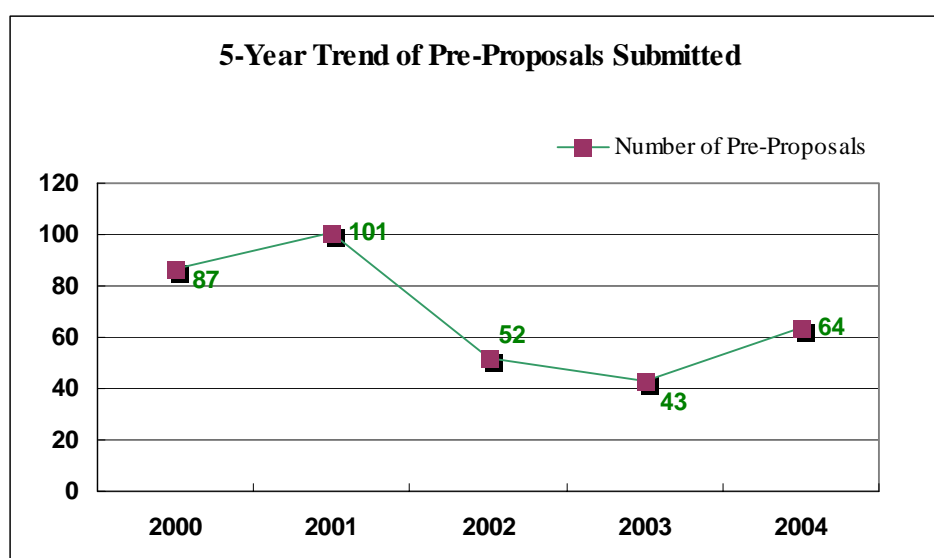
APN2005-17-NSG	<b>Optimization strategies for the management of change in coastal zones and inland waters caused by Salinity Intrusion.</b>	Changes in Coastal Zones and Inland Waters	Research	change in coastal zones and inland waters, Salinity Intrusion	Oceania, EA, SA	Australia, India, Japan, New Zealand, Sri Lanka	G. Costa, Open Polytechnic of New Zealand, NEW ZEALAND	<a href="mailto:gregory.decosta@openpolytechnic.ac.nz">gregory.decosta@openpolytechnic.ac.nz</a>	New	<b>20,000</b>	<b>SG</b>	
APN2005-18-NMY	<b>The Human Dimensions of Urban Ecosystems: Applying the Human Ecosystems Model (HEM) to Urban Environmental Management in ASEAN</b>	Climate Change and Variability, Human Dimensions of Global Change	Workshop	Human Ecosystems Model, Urban Environmental Management	SEA	Cambodia, Indonesia, Lao PDR, Malaysia, Philippines, Thailand, USA, Viet Nam	P. Marcotullio, United Nations University Institute of Advanced Studies, JAPAN	<a href="mailto:pjmarco@ias.unu.edu">pjmarco@ias.unu.edu</a>	New	<b>35,000</b>	<b>2</b>	
APN2005-19-NSG	<b>Implementation of the LOICZ II Science Plan through Regional and National Workshops, Synthesis and Policy Assessment, Gap-filling Studies, Capacity Building and Networking in the South Asian Region</b>	Changes in Coastal Zones and Inland Waters, Human Dimensions of Global Change	Capacity Building	LOICZ scientific framework, coastal zone management	SA, Oceania	Australia, Bangladesh, India, Nepal, Pakistan, Sri Lanka	N. Wikramanayake, National Science Foundation, Sri Lanka	<a href="mailto:tomwicks@yahoo.com">tomwicks@yahoo.com</a> <a href="mailto:dir@nsf.ac.lk">dir@nsf.ac.lk</a>	New	<b>15,000</b>	<b>SG</b>	
APN2005-20-NMY	<b>Assessment of the Effects of High Particulate Pollutants on Pulmonary Health Status in Selected Mega-cities of South Asia</b>	Changes in Atmospheric Composition, Climate Change and Variability, Human Dimensions of Global Change	Research, Workshop	Particulate Pollutants, Pulmonary Health Status, Mega cities	SA	Bangladesh, India, Nepal, Pakistan, Sri Lanka	A. P. Mitra, National Physical Laboratory, INDIA	<a href="mailto:apmitra@mail.nplindia.ernet.in">apmitra@mail.nplindia.ernet.in</a>	New	<b>60,000</b>	<b>2</b>	
APN2005-21-NMY	<b>Agricultural Land Use Policy in East and South Asia – Rapidly Changing Landscapes and its Impacts on Regional Food Security and its Future Scenario</b>	Climate Change and Variability, Changes in Terrestrial Ecosystems and Biodiversity, Human Dimensions of Global Change	Research, Workshop	Land use policy, food security	SA, EA	India, Japan, P. R. China	K. S. Rajan, International Institute of Information Technology, INDIA	<a href="mailto:rajan@iiit.net">rajan@iiit.net</a> <a href="mailto:rajan@skl.iis.u-tokyo.ac.jp">rajan@skl.iis.u-tokyo.ac.jp</a>	New	<b>30,000</b>	<b>2</b>	

APN2005-22-NMY	<b>Asian Ozone Pollution in Eurasian Perspective</b>	Changes in Atmospheric Composition	Workshop	surface ozone	SA, EA, SEA	India, Japan, Malaysia, P. R. China	H. Akimoto, Japan Agency for Marine-Earth Science and Technology, JAPAN	<a href="mailto:akimoto@jammstec.go.jp">akimoto@jammstec.go.jp</a>	Pre-proposal submitted	<b>40,000</b>	<b>2</b>	
APN2005-23-NSY	<b>The degraded ecosystem restoration in the arid and semi-arid Northern China-Mongolia Region</b>	Changes in Terrestrial Ecosystems and Biodiversity, Human Dimensions of Global Change	Workshop	desertification control, degraded ecosystem restoration	EA, OCEANIA	Australia, Mongolia, P. R. China	H. Wang, Chinese Academy of Science, CHINA	<a href="mailto:eerc2502@vip.sina.com">eerc2502@vip.sina.com</a>	Pre-proposal submitted	<b>35,000</b>	<b>1</b>	
APN2005-24-NSG	<b>Impact of Global Change on the Availability of Fodder &amp; Forage and Performance of Livestock in South Asia</b>	Climate Change and Variability	Research	global change, fodder, livestock	SA	Bangladesh, India, Pakistan	M. E. Babar, University of veterinary and Animal Sciences, PAKISTAN	<a href="mailto:masroorbar@hotmail.com">masroorbar@hotmail.com</a>	Pre-proposal submitted	<b>20,000</b>	<b>SG</b>	

## Report on 2004 Annual Regional Call for Proposals (ARCP)<sup>2</sup>

### 1. Pre-proposals: 64 received

- For Table of Pre-proposals see: **IGM10/07-01/Appendix 1**  
**SPG10/07-01/Appendix 1**
- Number received slightly higher compared with 43 and 52 in 2003 and 2002 respectively. Number of pre-proposals received is 87 in 2001 and 101 in 2000.
- 31% submitted a full proposal.
- 18 of the 20 pre-proposals submitted as full proposals advanced to Rapid Assessment Stage process, 2 were rejected. All of those 18 full proposals passed to stage 1 of review process.
- **13 of the 20 pre-proposals (65%) submitted as full proposals passed to final stage and have been short-listed to receive funding.**



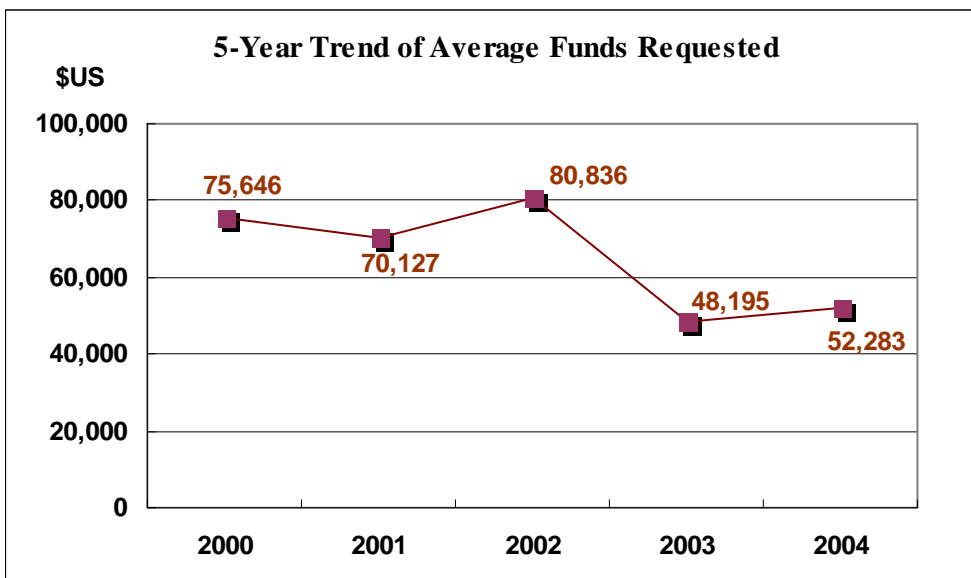
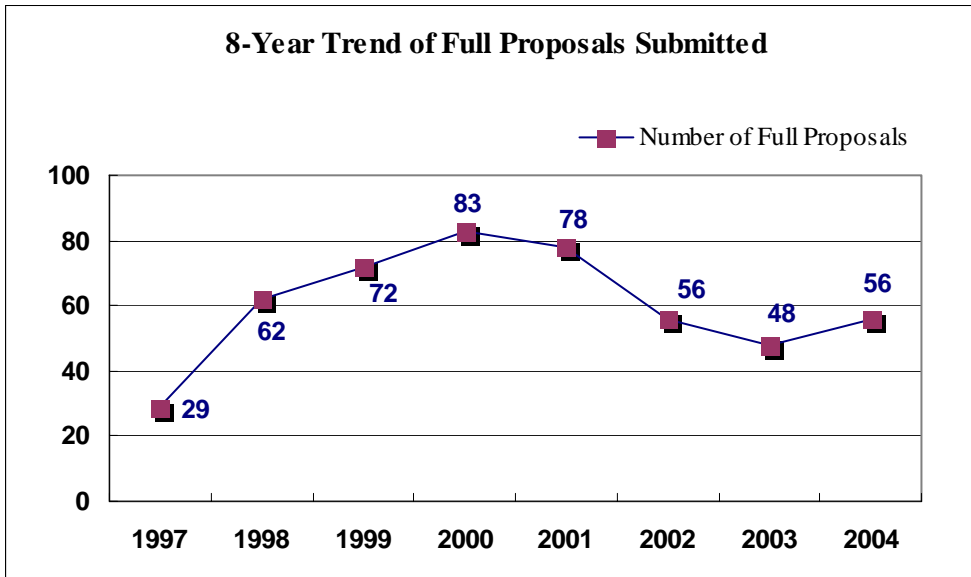
### 2. Full-proposals: 56 received (5 were ineligible)

- For Table of Full Proposals see: **IGM10/07-01/Appendix 2**  
**SPG10/07-01/Appendix 2**
- Number of eligible full proposals (51) received is up 6% on 2003, the number of proposals **was manageable** this year, given that 19 reviewers responded in the review process.
- Eight full proposals were eliminated at the Rapid Assessment Stage (RAS); leaving 43 full proposals were reviewed by the Scientific Planning Group at Stage One.
- Thirty proposals (70%) advanced to the final stage (cut-off line was set at scores of 6 and above).
- Twenty one external mail reviewers were selected according to their area of interest and expertise to provide comments on a number of "borderline proposals."

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<sup>2</sup> This report is on the "Process" and will not cover proposals recommended for funding.

- The average funds requested was **US\$52,283** in 2004 compared with **US\$48,195** in 2003. The average funds requested in 2000, 2001, and 2002 were US\$75,646, US\$70,127 and US\$80,836 respectively.



## ARCP & Project Management

### **ACRP Management: Review Process**

Evolving annually and both rapid assessment stage and reviewer guidelines for members are being further streamlined. SPG member feedback will be requested this year following the launch of the APN's second strategic phase; interactive tool for reviewers is planned.

### **ACRP Management: External Mail Review Process**

The concept of an APN Mail Review System was devised in 2001 as an outcome of APN's Inter-Governmental Meetings, where an effective review process of APN proposals would be implemented. Under this review system we created a pool of about 108 scientists to review APN proposals in their chosen field(s) of expertise. The Mail Review System was incorporated this year. Information seeking reviewers is posted on the APN website and has been circulated by members of the global change community.

- A database has been compiled in Microsoft Access
- We have a list of 196 external mail reviewers and new reviewers are regularly submitting applications
- Number has almost doubled since our first call for external reviewers
- Twenty one external reviewers were invited to comment on proposals that passed stage 2 – feedback rate about 43%.
- Mechanisms to improve the external mail review process will continue to be investigated further with Steering Committee and APN members.

### **ARCP Management: Financial Guidelines**

Per Diem rates have been checked and revised accordingly as shown in:

**IGM/10/07-02 Appendix 1**

**SPG/10/07-02 Appendix 1**

### **Project Management: Contracts**

The **Terms of Agreement** established following the 8<sup>th</sup> IGM have been revised to allow projects a **full 12 months** in a year to implement project activities according to their timelines.

### **Project Management: Disbursement of Project Funds**

APN Secretariat visited with NSF in January to discuss prospect of NSF fund contributions being remitted to APN directly. Discussions are in progress and funds will continue to be remitted by the START International Secretariat on an interim basis.

### **Project Management: Communications and Reporting:**

Communications between Secretariat and project leaders is improving and we are receiving very positive feedback from our project leaders regard implementation of their projects; financial reporting, project reporting etc.

- 6-month progress (electronically)
- Short report for publication (electronically)
- Multi-year project progress report (electronically)
- Final report (hard/soft versions and electronically)

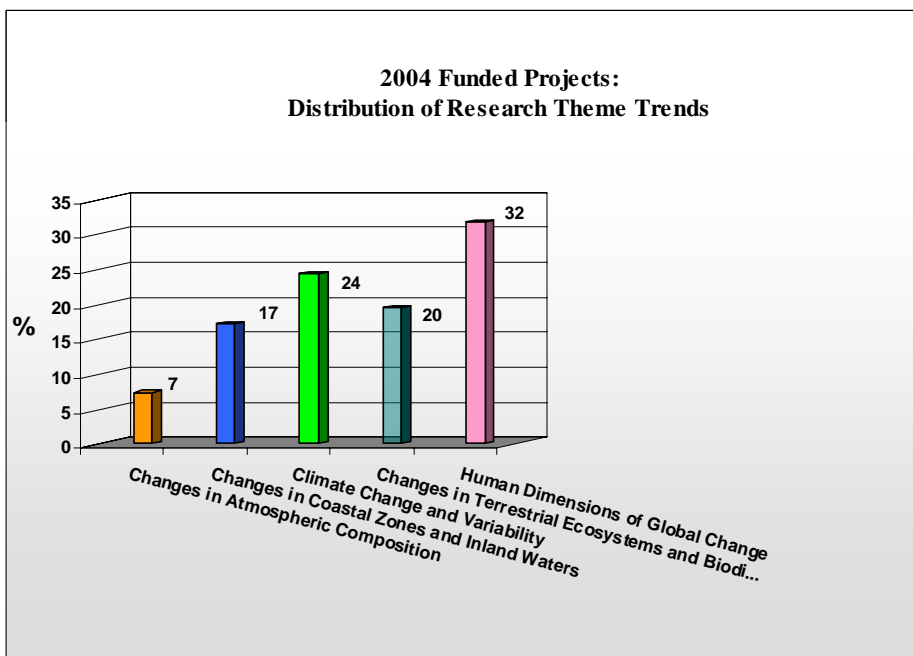
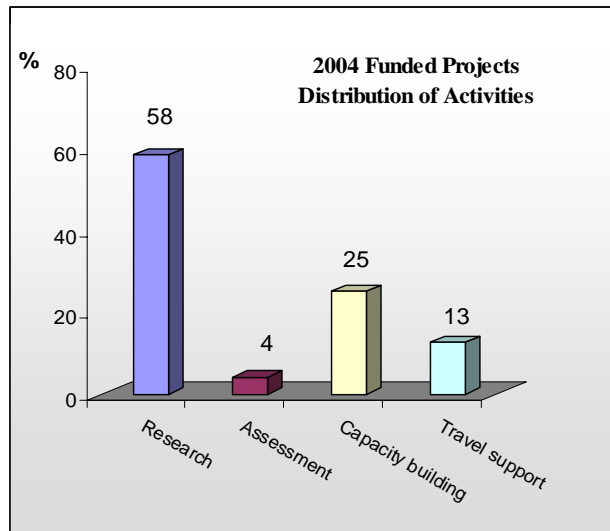


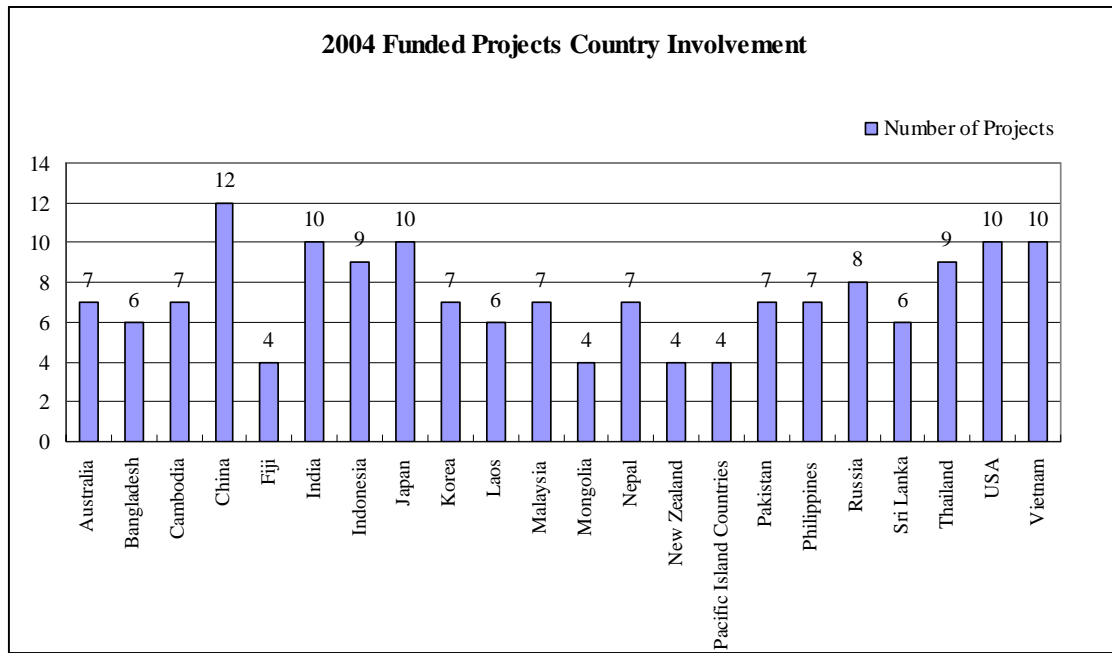
- Review Questionnaire is incorporated into the template for the final report and needs to be completed by the PI before 20% remaining grant is remitted.

**Project Management: No-Cost Extensions**

One request was received this year for an extension (12 months). This is currently under investigation by the APN Secretariat.

**Statistics for 2004 Funded Projects**





**Proposed New Activities for 2005/2006:  
Advisor for the Second Strategic Plan (2SP) Implementation in  
FY2005**

The 2SP recommends that the APN prepares: (1) annual operating plan, (2) communications and information plan, and (3) resource development plan. These action points are vital for the successful implementation of the 2SP in the FY2005. At the same time, in the FY2005, the revision of the APN Framework will have to be prepared according to the 2SP and the draft should be submitted to the 11<sup>th</sup> IGM for discussion and approval.

Considering that the FY2005 is the first year of the implementation of the new 2SP and that the success of the work is crucial to ensure the smooth implementation of the plan, a special budget should be prepared to invite an advisor, who is familiar with the APN activities, travelling for 24 days in a year to the APN Secretariat in Kobe, Japan. The advisor is also requested to make two one-week missions to discuss with potential donors for exploring APN resources development.

A total sum of US \$32,000 (see breakdown below) is proposed in the science activity budget of FY2005 as a one-time arrangement for Year 1 of the 2SP, as it is needed for the transition phase from 1SP to 2SP.

Nomination of the advisor will be decided in consultation with the Steering Committee.

Duties of the advisor:	Cost		
Two 7 days travel and one 10 days travel to Kobe to perform an agreed mandate (see Note 1 below)	Sub	total	Air fare for three business trips: \$5,500 Hotel and per diem for three business trips: \$2,700 Advisor's fee \$11,200
Two one-week missions (see Note 2) to potential donors with the APN secretariat director (or staff)	Sub	total	Air fare for two business trips: \$4,600 Hotel and per diem for two business trips : \$1,800 Advisor's fee \$6,200
	Total	US	
	\$32,000		

*Note 1:*

(1) 7 days in May-June 2005: to provide expert advice for preparing the annual operating plan for the FY2005.

(2) 10 days in September-October 2005: to provide expert advice for preparing a communications and information plan, APN resources development plan and Framework revisions, plus to chair a web-based conference for CAPaBLE CSC.

(3) 7 days in January-February 2006: to provide expert advice for preparing the annual operating plan for the FY2006 and the APN resources development plan.

*Note 2:*

Two one-week missions to potential donors are tentatively proposed for (1) early November and (2) mid February.

**Proposed New Activities for 2005/2006:**

**APN Capacity Building Workshop  
on  
Global Earth Observation System of Systems (GEOSS)**

Launched at the first Earth Observation Summit in Washington in July 2003 the intergovernmental ad hoc Group on Earth Observations (GEO) was tasked with developing a ten-year implementation plan for a Global Earth Observation System of Systems (GEOSS). The plan entails the coordination of a wide range of space-based, air-based, and ocean-based environmental monitoring platforms, resources and networks – presently operating independently.

The goals of APN are aligned with the Earth Observation System (EOS) objectives of understanding planet Earth that “is crucial to enhancing human health, safety and welfare, alleviating human suffering including poverty, protecting the global environment, and achieving sustainable development.” Moreover, a high priority APN goal is to improve the scientific and technical capabilities of Asia-Pacific nations. This goal is currently being addressed by the APN’s CAPaBLE programme and by other activities including projects supported directly through the competitive Annual Call for Regional Proposals (ACRP).

At the Earth Observation Summit III in Brussels in February 2005, where APN was represented as an “organisation requesting participation,” the GEOSS ten-year implementation plan was approved with capacity building as an integral part of the implementation strategy. In particular, the implementation plan emphasises that:

- Specific capacity building activities, however, need to be tailored to suit regional or local requirements on the basis of existing capacity.
- There are significant advantages to taking a coordinated, focused, co-financed and partnership-based approach to capacity building.

**Proposed Activity:  
Capacity Building Workshop**

As part of a “partnership-based approach to capacity building” that is “tailored to suit regional or local requirements,” a planning workshop on capacity building activities for GEOSS implementation in the Asia-Pacific region, organised by the APN, is proposed to convene in Japan in autumn 2005.

The main objective of this workshop will be to establish an appropriate methodology to effectively implement the capacity building component of GEOSS, as well as to discuss how to share roles between key players. Target groups to be invited include representatives from: \*APN member countries, Secretariat of the Group on Earth Observation (GEOSEC), International Organisations and

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\* APN member countries that are also GEO countries include: Australia, China, India, Indonesia, Japan, Nepal, New Zealand, Republic of Korea, Russian Federation, Thailand, and the United States.

international funding agencies\*\* which participate in the GEO, and related ministries and independent administrative institutions.

Proposed Budget:  
US \$65,000

Note:

1. With a strong component of capacity building in mind, this activity is placed under the CAPaBLE programme.
2. Due to the reason that the budget is earmarked by the Ministry of the Environment in Japan for this specific activity; this project will not be subject to the regular CAPaBLE project selection process but be handled directly by the APN Secretariat. However, the Project Leader for this activity will be nominated in consultation with CAPaBLE/CSC and other CAPaBLE conditions, such as reporting, will be applied to this project.
3. Some relevant issues to be identified at major international meetings, such as the G8 Summit to be held in Scotland, UK, from 6-8 July, that will focus on the challenges of Africa and climate change may be included, as appropriate, from the view point of APN's experience with regional collaboration.

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\*\* including those in charge of economic development in addition to those in charge of global change research

## Budget Plan (Draft) FY 2005/2006

		Draft Budget FY05/06	Budget FY04/051)
<b>R e v e n u e s</b>		<b>2,166,000</b>	<b>2,007,000</b>
	MOE Japan	1,259,000 <sup>2)</sup>	1,346,000
	Hyogo Prefectural Government	323,000	304,000
	NSF/USCCSP	425,000 <sup>3)</sup>	330,000
	Environment Australia through Australian Greenhouse Office (AUS\$ 30,000)	23,000	21,000
	New Zealand Climate Change Office4)		6,000
	Carry Over FY04/055)	136,000	
	<b>2,166,000</b>	<b>2,007,000</b>	
<b>E x p e n d i t u r e s ( S c i e n t i f i c )</b>	<b>Scientific Activities</b>	<b>1,699,000</b>	<b>1,542,000</b>
	Annual Regional Call for Proposals (ARCP)	790,000	760,000
	CAPaBLE	520,000	461,000
	- Comprehensive Research Projects:	180,000	191,000
	- Capacity Building Projects:	275,000 <sup>6)</sup>	270,000
	- APN International Workshop on the Design of the Capacity Building Activities on Earth Observation	65,000	
	Other Hyogo Activities	25,000	67,000
	- Public Symposium on Global Change Research and Environmental Education	10,000	
	- Other Activities	15,000	
	- Coastal Zone Management Synthesis	0	52,000
	- World Conference on Disaster Reduction (January 2005, Kobe, Japan)	0	15,000
	Evaluation/2nd Strategic Plan and Local Outreach Meeting	0	22,000
	Advisor for 2nd Strategic Plan Implementation	32,000	
	Internship	0	21,000
	Programme Fellowship	50,000	
	4th Group on Earth Observation (GEO) Meeting (April 2004, Tokyo, Japan)	0	4,000
	Travel Support for Scientific Activities	30,000	30,000
	IGM/SPG	110,000	110,000
	Liaison Officers	31,000	31,000
	Publications & Website Management	45,000	
Publications (Newsletters & Printing)	0	34,000	
Website Management	0	2,000	
Contingency for Scientific Activities	29,000		
Reserve for Exchange Rate Fluctuations7)	37,000		

		Draft Budget FY05/06	Budget FY04/051)
<b>Expenditures (Administrative)</b>	<b>Administrative Expenses</b>	<b>467,000</b>	<b>465,000</b>
	Travel for Administrative Purposes	13,000	21,000
	Salaries and Related Costs	346,000	317,000
	· Salaries	290,000	264,000
	· Insurance and Social Benefits	49,000	42,000
	· Contribution to Severance Payment Fund (under IGES)	7,000	11,000
	Communications, Postage, Remittance Fee	20,000	26,000
	Others	53,500	55,500
	· General Office Expenses	9,000	15,500
	· Leasing of Office Equipment	23,000	18,000
	· Books, Newspapers and Magazines, Maintenance of PC and Server	11,000	10,000
	· Interest on Loan	0	1,500
	· Tax	0	6,000
	· Bank Charges (Remittance Fee)	0	2,000
	· Copies	9,500	0
· Miscellaneous	1,000	2,500	
Equipment Transfer Payment to AIRIES	0	5,000	
APN's Contribution to IGES Administration	34,500	40,500	

- 1) As approved by the 9th IGM in 2004 in Canberra, Australia.
- 2) In this amount are included: US\$ 111,000 as "restricted funds", to be used by 31 March 2006.
- 3) NSF/USCCSP's increase of US\$ 45,000 from US\$ 380,000 to US\$ 425,000 is still tentative and subject to a final approval.
- 4) Final decision regarding financial contribution from New Zealand towards the FY 05/06 is not made yet.
- 5) US\$ 107,000 carry-over due to general savings on exchange rates, administrative expenses etc., and MOEJ additional contribution of "restricted funds" to be used by 31 March 2005. This freed some funds from 04/05 IGM-approved budget.
- 6) Total support of new CB for 2004/05 and CB for 2005/06 together: US\$380,000 (105,000+275,000).
- 7) In order to compensate major currency fluctuations (higher US\$ value towards JPYen) the APN Secretariat is entitled to use some funds from the reserve, and, if necessary, to revise, with approval from the Steering Committee, the budget plan.

Used Exchange Rates:

Budget Plan FY 04/05:

US\$ 1.00 = JPYen 115  
AUS\$ 1.00 = JPYen 80.50  
NZ\$ 1.00 = JPYen 69.00

Draft Budget Plan 05/06

US\$ 1.00 = JPYen 108  
AUS\$ 1.00 = JPYen 82.80

**APN Liaison Officer  
Reports**

**2004/2005**



***APN Liaison Officer Report for Oceania***

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## ***APN Liaison Officer Report for Oceania***

- **Overview of work carried out on behalf of the APN:**

1. Submitted, quarterly, regional reports to the APN newsletter.
2. APN activities included in the two editions of the Oceanic Waves newsletter that were published in 2004.
3. Information about the APN was presented at meetings attended by the APN Liaison Officer and the APN SPG member/Director of START-Oceania Secretariat. (Please refer to the list of meetings given below.)
4. APN activities and opportunities were disseminated to our regional network. Many regional contacts have expressed interest in the APN Call for Proposals and it is anticipated that there will be more applications, in 2005.
5. The new START-Oceania website highlights APN activities and provides a link to the APN website.

### **15-17 March, 2004. Inter-linkages Regional Meeting on Integrated Capacity Development in the Pacific on Multilateral Environmental Agreements. Nadi, Fiji**

This meeting was coordinated by the South Pacific Regional Environmental Programme (SPREP), the United Nations University (UNU) and the Ministry of the Environment, Japan. The main goal of the meeting was to develop practical and applicable frameworks of cooperation and activities for possible consideration by Pacific Island Countries on MEA Management, particularly capacity building within the context of National Capacity Self Assessment (NCSA). In working groups and plenaries, the meeting discussed various aspects of MEA compliance, MEA inter-linkages, knowledge management for capacity building and the partnerships required for moving forward. (The Okinawa projects, highlighted later in this report, were also discussed in the meeting.) Dr. Koshy represented the APN at this meeting.

### **22-24 March, 2004. The 9th APN Inter-Governmental Meeting and Scientific Planning Group Meeting. Canberra, Australia**

Dr. Koshy attended this meeting and presented the APN Liaison Officers regional report for Oceania and updated the meeting on the APN CAPaBLE capacity building project 'Climate and Extreme Events in the Pacific,' which was held at USP, Suva, 15-26 June, 2004.

### **29 March – 2 April, 2004. Institutional Capacity Building on Renewable Energy Training in Pacific Island Developing States (PIDS). Pilot Training on Wind Energy Conversion Systems (WECS). University of the South Pacific, Suva, Fiji**

The one-week workshop discussed renewable energy sources and the need for sustainable energy policies. Wind power was a particular focus of the workshop. Participants were introduced to wind resources, factors affecting wind speed, selection of potential sites for wind turbines, modelling techniques, wind generation and components of the wind turbine. In addition, they were introduced to physical, theoretical and technical aspects of Wind Energy Conversion Systems (WECS). Twenty-six participants from the Cook Islands, Fiji, Samoa, Solomon Islands, Tonga and Vanuatu attended the workshop from different energy sectors of governments, non-government organisations and tertiary institutions. The workshop was facilitated by SOPAC and USP's Department of Physics, organised by USP's Department of Physics and funded by USP and UNESCAP. Ms. Mosmi Bhim attended this meeting.

**15-26 June, 2004. (APN CAPaBLE Programme) Pacific Island Training Institute on Climate and Extreme Events**

This joint training institute was convened by USP's Pacific Centre for Environment and Sustainable Development (PACE-SD), the East-West Center (EWC), Hawaii, and the National Institute of Water and Atmospheric Research (NIWA), New Zealand, at the USP campus, Suva. The training institute was coordinated by Prof. Koshy, Ms. Eileen O'Shea (EWC) and Dr. Jim Salinger (NIWA). The APN's CAPaBLE programme, and the U.S. National Oceanic and Atmospheric Administration were the major sponsors with additional contributions from USP, EWC and NIWA. Small Islands Developing States (SIDS), such as those in the Pacific region, are considered among the most vulnerable to the consequences of climate variability and change and associated extreme weather events. The training institute is expected to assist in the development of a regional network of scientists, forecasters, disaster management officials and resource managers, skilled in the development and the use of climate information to increase the resilience of Pacific Island nations in the face of climate-related extreme events. The institute was comprised of an intensive programme of lectures, small group discussions, training sessions, in a computer lab, and collaborative research activities. About 35 participants, including resource people, participated in the Training. Mosmi Bhim also participated in this training.

**28-30 June 2004. Pacific Regional Stakeholders Planning Workshop**

The South Pacific Applied Geoscience Commission (SOPAC) hosted the Regional Stakeholders Planning Workshop to develop a Pacific Regional Strategic Disaster Risk Reduction Action Plan, to assist the Pacific Island region's preparations for the 2<sup>nd</sup> World Conference on Disaster Reduction which was held in Kobe, Japan, 18-22 January, 2005. To ensure that the interests of the Pacific region were represented in Kobe, over 40 participants representing 16 countries, as well as regional and national organisations, attended the regional planning workshop. The workshop was designed to provide a platform through which participants could contribute ideas towards regional policies that would support disaster risk reduction decision-making; to reduce the vulnerability of the Pacific Small Island Developing States (SIDS) and strengthen their national sustainable development planning. Ms. Mosmi Bhim attended this meeting and gave a presentation on APN and START activities in the region related to the workshop theme.

**1-3 July 2004. South Pacific Tsunami Awareness Workshop Forum Secretariat. Suva, Fiji**

The workshop was organised by the South Pacific Applied Geosciences Commission (SOPAC), the International Tsunami Information Centre and the Intergovernmental Oceanographic Commission. Following the presentations, group sessions were held to prepare a draft document titled 'Strategic Recommendations for Addressing Tsunami Risks'. SOPAC is expected to consider these recommendations in relation to the development of the Pacific Regional Strategic Action Plan for Disaster Reduction. Presentations were made by experts and country reports were also presented by the National Disaster Management Officers (NDMO), of various countries. At the end of this workshop, a Draft Strategic Recommendation for Addressing Tsunami Risks was prepared. This draft document set out a framework whereby Pacific countries' capacity could be enhanced to aid tsunami risk identification, preparedness and reduction. Ms. Mosmi Bhim, the APN liaison officer, attended this workshop.

**8-10 November 2004. The 2nd APN Global Change Coastal Zone Management Synthesis Workshop. Kobe, Japan**

This project is led by Prof. Nick Harvey of the University of Adelaide, Australia. Prof. Harvey is also the Chair of the START-Oceania Regional Committee. Prof. Kanayathu

Koshy and Prof. Patrick Nunn also attended, from the University of the South Pacific (USP). The APN Global Change Coastal Zone Synthesis Report will be launched at the 10<sup>th</sup> APN Inter-Governmental Meeting and Scientific Planning Group Meeting that will convene in Kobe from 12-14 April, 2005. At the above workshop, the group agreed to focus their attention on the production of the Synthesis Report, which is intended to be a summary of APN-funded global change research projects. It was agreed to target a broad audience including policy-makers, APN members, educationalists and the general public. The group agreed on a schedule for the report drafting, review and publication. The proposed outline, geographic coverage, and other issues, were also agreed upon.

- **Overview of Regional Activities:**

**26-30 January, 2004. Report on the Inter-regional Preparatory Meeting for the Ten-year Review of the Barbados Programme of Action for the Sustainable Development of Small Island Developing States. Nassau, Bahamas**

Over 300 participants, including 13 ambassadors, 22 ministers, deputy ministers, and representatives of UN agencies, and inter-governmental and non-governmental organisations, attended the meeting. The week-long meeting synthesised the regional position papers into an *AOSIS Strategy Paper*, accommodating all aspects of the special issues discussed during panel discussions into the *Nassau Declaration* highlighting SIDS achievements and challenges in the implementation of BPOA. The results of this meeting will be forwarded to the G-77/China for consideration in advance of the New York PrepCom in April 2005.

**2-6 February, 2004. Pacific Islands Regional Ocean Forum (PIROF). University of the South Pacific, Suva, Fiji**

The PIROF meeting was jointly organised by the University of the South Pacific (USP), the Secretariat of the Pacific Community (SPC) and the South Pacific Applied Geoscience Commission (SOPAC), to examine options and initiatives for the implementation of the Pacific Islands Regional Ocean Policy (PIROP). More than 200 people from 20 Pacific countries participated in PIROF, including senior government officials, diplomats, representatives from environmental departments, international bodies and, regional and non-government organisations. The PIROF participants adopted the Pacific Islands Regional Ocean Policy and reaffirmed their commitment to sustainable ocean development, as expressed in the ocean and coast components of Agenda 21. They also reaffirmed their commitment to the Global Action Plan for Small Island Developing States, agreed to in Barbados, in 1994, and to the Johannesburg Plan of Implementation. PIROF is to be implemented through the development of a Framework for Integrated Strategic Action (ISA). The PIROF meeting agreed on a process, through which ISA will be finalised.

**March, 2004. The Expert Meeting on Project Design for Pacific Islands. Okinawa, Japan**

About 35 participants from international/regional organisations (UNESCO-IOC, UNDP, FAO, SPREP), universities (UNU, Hawaii, Hokkaido, Ryukyus, USP), NGOs (WWF, ISME, LEAD Japan), Ministry of Foreign Affairs (MOFA Japan), Okinawa Prefecture and, Okinawa International Centre etc., attended the meeting. Dr. Koshy was also in attendance. The major objective of the meeting was to discuss project design for Pacific Islands in the thematic areas of *environment, health and human resource development*, as a follow-up measure to the 3rd Pacific Islands Forum Meeting (PALM-3) held in Okinawa, May 2003. These project ideas were grouped into two

broad thematic areas matching the programmatic approach to sustainable development activities, gaining prominence in the Pacific region.

**14-16 April 2004. Preparatory Meeting for the Ten-Year Review of the Barbados Programme of Action (BPOA+10). United Nations Headquarters, New York, USA**

Director of the START, Oceania Secretariat, Prof. Kanayathu Koshy was among the delegation which participated in this meeting. Prof. Koshy gave a presentation on 'Capacity Building for Sustainable Development' in one of the side events. Pacific SIDS emphasised that causes beyond their direct control impede full and effective implementation of the BPOA. These included: overall decline in overseas development assistance, decline in commodity prices, loss of preferential trade arrangements, global pressure to reduce the size of the public sector, increase in the cost of imported fossil fuels and, instigation of some donor driven projects that may be inconsistent with the BPOA. On top of this, there was deep concern with regards to the impacts of climate change, climate variability, sea-level rise and extreme weather events as an impediment to sustainable development, and called on countries that had not done so, to ratify the Kyoto Protocol, and urged the international community to support implementation of the Regional Framework for Climate Change, Climate Variability and Sea-Level Rise.

**26-27 May, 2004. AIACC Stakeholders Meeting. Suva, Fiji**

The meeting, held at the University of the South Pacific, Suva, Fiji, was attended by stakeholders in the AIACC project: Integrated Methods and Models for Assessing Coastal Vulnerability and Adaptation to Climate Change in Pacific Island Countries. It was organised by the Pacific Centre for Environment and Sustainable Development (PACE-SD) and was attended by project implementers, which included representatives of PACE-SD, South Pacific Regional Environment Programme and the International Global Change Institute (IGCI) of the University of Waikato. Health, environment workers and NGOs from Fiji, Cook Islands and Vanuatu, also attended and country reports were presented.

**28 June–9 July 2004. National Summit for Sustainable Development. Funafuti, Tuvalu**

Prof. Kanayathu Koshy attended this meeting, as a facilitator on behalf of the University of the South Pacific (USP). Representatives from the Forum Secretariat, SOPAC, SPC, SPREP and USP, also participated as facilitators. Since the expiry of the 'Kakeega o Tuvalu 1995-1998,' Tuvalu has been without an up-to-date set of agreed national development priorities and strategies, or a prioritised public sector investment programme. The NSSD intended to correct this situation and to provide a clear set of national priorities and guidelines, policies and a strategic framework for the future development of Tuvalu over the period 2005-2015. At the summit, plenary sessions were held each day on seven thematic areas. An average of about 250 people, from a broad spectrum of sectors, participated. The plenary sessions were followed by working group discussions. With the exception of two evenings, side events were held on each evening covering a number of cross-cutting themes. Prof. Koshy, together with Mr. John Low, from the Forum Secretariat, and Mr. Bhaskaran Nair, from SOPAC, made a formal presentation during one of these side-events on the theme of 'Capacity Building for Sustainable Development,' placing special emphasis on the development challenges identified during the Summit. A detailed summary matrix, highlighting the key challenges in each of the thematic areas, key policy outputs and key performance indicators, will be one of the major outputs of the Summit. In addition, there will be a National Sustainable Development Framework, containing a 10-year performance based vision.

**5-9 July 2004. Pacific Islands Renewable Energy Project Meeting (PIREP).  
Apia, Samoa**

The Pacific Islands Renewable Energy Project (PIREP) meeting was held at the South Pacific Regional Environment Programme (SPREP) office in Apia, Samoa, from 5-9 July, 2004. The week-long meeting was attended by stakeholders from the South Pacific region. The meeting was organised by SPREP, who are implementing the initial preparatory phase of the PIREP project, and funded by the Global Environment Facility (GEF) and the United Nations Development Programme (UNDP). The meeting examined how renewable technologies can better contribute to reducing greenhouse gas emissions. Delegates looked at various fiscal, regulatory, technical, institutional, policy and awareness barriers that Pacific Island Countries need to overcome, if renewable energy is to have a significant impact on reducing fossil fuel consumption, according to PIREP coordinator Mr. Solomon Fifita. A log-frame matrix was drawn up for a multi-million dollar project proposal, to be submitted to GEF later in the year. The proposal is a joint effort by the international, regional and national agencies currently dealing with regional climate change and energy issues.

**3-6 August 2004. SIDS Universities Consortium Development Workshop.  
Virgin Islands, USA**

The initial concept of the consortium emerged at the SIDS Ministerial meeting, held in Montego Bay, Jamaica in May, 2002, as part of the preparations for the World Summit on Sustainable Development (WSSD). The Consortium was further developed at an expert meeting organised by the Pacific Centre for Environment and Sustainable Development (PACE-SD) on 'Capacity Building for the Sustainable Development of SIDS' held from 3-8 December 2003 at USP. Consortium partners met again during the Nassau SIDS inter-regional meeting and the PrepCom for BPOA+10 at the UN headquarters, New York. About 22 participants representing UWI, USP, UVI, UoMalta, UoMauritius, NUS, UoH, UoBelize, UoArcadia, UNESCO, UNDP, and UNDESA, including Ambassador Jagdish Koonjul, Chair of AOSIS, attended the meeting. Training areas relevant for the sustainable development of SIDS were identified by the consortium. A draft MOU will be prepared and the University Heads will hold a mini PrepCom, in November, to finalise details before the Mauritius meeting. Prof. Koshy attended this meeting. Funding for travel and accommodation was provided by UNDP.

**31 August 2004. Public Lecture on Climate Change and its Interactions with  
Tourism in Fiji. University of the South Pacific. Suva, Fiji**

Dr. Susanne Becken presented a public lecture on the findings of her research on 'Climate Change and its Interactions with Tourism in Fiji' on 31 August, 2004, at the University of the South Pacific (USP), Suva, Fiji. The findings were from the project 'Climate Change and Tourism in Fiji,' funded by the European Union under the 8<sup>th</sup> EDF and carried out this year at USP's Department of Tourism and Hospitality. Dr. Becken's research focused on the interactions between climate change and tourism whereby, both tourism's vulnerability to climate change impacts (and possible adaptation measures) and tourism's contribution to climate change (ie greenhouse gas emissions) were considered. The research also explored tourists' perceptions of climate change and their willingness to contribute financially to adaptation or mitigation measures. A final report titled 'Climate Change and Tourism in Fiji—Vulnerability, Adaptation and Mitigation' was published, which has recommendations for tourist industry stakeholders, tourists, government and environment officials. The report details the impact climate change already has on the tourism industry (especially tourism accommodation), amount of energy consumed by the industry, and the mitigation and adaptation measures already in place. This presentation was

attended by Prof. Koshy and Mosmi Bhim. Dr. Becken is a researcher at Lincoln University, New Zealand.

### **31 August 2004. National Waste Forum 1. Suva, Fiji**

This one-day event was organised by the Department of Environment of Fiji's Ministry of Local Government Housing, Squatter Settlement and Environment. The main objective of the Forum was to establish the content, direction and responsibilities to be undertaken for the development of a National Waste Management Strategy. A new waste strategy for Fiji is expected to set a direction for developing sustainable waste management practices. The strategy will be produced after widespread consultations and through a process of partnership with the main stakeholders involved in the production and management of waste. Through the Waste Forum and Working Groups, expertise will be drawn from industry, NGOs, academia and specialist bodies.

A second waste forum is expected to be held in Fiji's Western Division in November and a third one is to be held in April 2005 and the fourth one is likely to be held in June, 2005. By June, 2005, a National Waste Management Strategy is expected to be produced. After this, a national waste forum is expected to be held once every year. The first draft of the National Waste Management Strategy for Fiji has been produced by Fiji's Department of Environment and the University of the South Pacific's (USP) Pacific Centre for Environment and Sustainable Development (PACE-SD). Prof. Koshy attended this meeting as a facilitator and as the Director of PACE-SD.

### **12-14 October 2004. Workshop on Adaptation to Climate Change and the Clean Development Mechanism. Apia, Samoa**

This three-day workshop, held at the Training and Education Centre of the South Pacific Regional Environment Programme (SPREP), was jointly organised by the Institute for Global Environmental Strategies (IGES), Japan and the UNEP Risoe Centre (URC), Denmark. In attendance were experts, policy-makers, and other stakeholders, from the Asia-Pacific region. The workshop received local support from SPREP and additional financial support from the governments of Australia, Japan, and New Zealand. The objectives of the workshop included: 1) identifying adaptation policies and measures and assessing their implementation across a range of sectors and stakeholders, 2) assessing status and identifying opportunities for effective implementation of CDM in the region and, 3) identifying ways for future collaborative actions in facilitating adaptation and Clean Development Mechanism (CDM). CDM is one of the mechanisms of the Kyoto Protocol, to reduce Greenhouse Gas (GHG) emissions. Through CDM, developed countries are able to provide assistance to developing countries to undertake CDM activities, such as planting trees (afforestation and reforestation) and mangroves to absorb carbon dioxide, and renewable energy and energy efficiency projects.

2-5 November 2004. The 2nd AIACC Regional Workshop for Asia and the Pacific. Manila, Philippines

Assessments of Impacts and Adaptations to Climate Change (AIACC) are implemented jointly by START and the Third World Academy of Sciences, on behalf of the United Nations Environment Programme (UNEP). The workshop in Manila was funded by AIACC and locally hosted and organised by the Environmental Forestry Programme of the University of Philippines, which is home of an AIACC regional study. In the South Pacific, the AIACC project is being conducted by the Pacific Centre for Environment and Sustainable Development (PACE-SD) at the University of the South Pacific (USP) in conjunction with the University of Waikato's

International Global Change Institute (IGCI) and the South Pacific Regional Environment Programme (SPREP). The South Pacific AIACC study is entitled 'Integrated Methods and Models for Assessing Coastal Vulnerability and Adaptation to Climate Change in Pacific Island Countries'. AIACC implementers from PACE-SD gave presentations on its progress at the Manila meeting.

**1-2 December 2004. START-Oceania Regional Committee Meeting. Noumea, New Caledonia**

The Institute of Research and Development (IRD) in Noumea, New Caledonia hosted the annual START-Oceania Regional Committee meeting. The past year's activities, including the current and past APN-funded projects, were reviewed and plans for the future were developed. Committee members also met with the Director of IRD, the Director of Meteo-France, the French government representative, and the government of New Caledonia delegate for research. The possibility of research collaboration, through new partnerships, was explored. The committee plans to develop four additional projects in the area of climate change. These include: 1) a project on adapting to climate change, 2) a regional project linking climate change and El Nino, 3) a project on coastal management in Oceania and, 4) a project on the impacts of climate change on communities. Additional projects in other areas that will be developed during the year were identified.

**8-9 December, 2004. The 2nd Fiji National Integrated Coastal Management Workshop. University of the South Pacific (USP). Suva, Fiji**

This workshop was organised by USP's Institute of Applied Sciences (IAS). The objectives of the workshop were to evaluate the progress of the Integrated Coastal Management (ICM) project since the 2002 National ICM Workshop, to verify and incorporate lessons learned, to review the national mechanisms for ICM and ICM related initiatives in Fiji and, to recommend priority actions and mechanisms for the continuation of ICM in Fiji. The ICM is a joint project between the Fijian Government, the IAS and the Coastal Resources Center of the University of Rhode Island. The workshop determined that there could be improvement on the strategies for implementation. The following were activities targeted for improvement: 1) training at village/provincial level, 2) disseminating information, 3) improving communications between chiefs and villagers, 4) monitoring of coastal activities using appropriate methods and feedback delivery, 5) increasing media awareness and, 6) creating links to world/national days on environment and water, etc. Through these approaches, it was recommended to establish multi-stakeholder Tikina Committees; to establish and utilise village committees with appropriate representatives and involve women and youth from the outset and in all phases. Activities recommended for the national level include ensuring that the Environment Management Bill integrates with the Fisheries, Health and National Disaster Management Bills. Emphasis was also placed on reporting best practices and lessons learned into the school system. Approaches for national integration and coastal development planning at the local and national levels were also discussed and final overall recommendations and areas of expansion for ICM work was decided upon.

• **Outcomes and Products:**

1. Oceanic Waves, Vol. 6, Issue 1 & 2, 2004.
2. Oceanic Waves, Vol. 6, Issue 3 & 4, 2004.
3. CD for (CAPaBLE Programme) Pacific Island Training Institute on Climate and Extreme Events.
4. Report on (CAPaBLE Programme) Pacific Island Training Institute on Climate and Extreme Events.



5. START-Oceania Secretariat Annual Report 2003-2004.
6. Climate Change Roundtable Matrix of Projects.
7. New START-Oceania Secretariat website ([www.usp.ac.fj/start/](http://www.usp.ac.fj/start/)).

• **Future Activities:**

1. Four issues of the quarterly newsletter Oceanic Waves, to be published over the year.
2. A brochure for the START-Oceania Secretariat giving general information on START-Oceania and the APN liaison network.
3. Liaising, networking, and information dissemination with our regional contacts.
4. Regular updating of our website to raise awareness of new publications and global change related activities and opportunities.
5. Active participation at national and regional meetings to contribute and disseminate information.
6. Following up on APN funded projects and publicise activities.
7. Preparing quarterly reports for the APN.
8. START-Oceania Regional Committee meeting and the APN Inter-Governmental Meeting and Scientific Planning Group Meeting.
9. Four new project proposals, to be developed this year and some others to be explored.

***New Projects on Global Change:***

At the START-Oceania Regional Committee meeting, held from 1-2 December, 2004, in Noumea, New Caledonia, it was decided that four new projects would be developed in 2005. The projects are:

1. A project on the second phase of AIACC to be developed by Prof. Koshy, by mid-June.
2. An IRD-led proposal on regional climate change issues, to be developed by Dr. Ganachaud.
3. A project on institutional arrangements for coastal management in Oceania, to be developed by Prof. Koshy, Prof. Harvey and Dr. Mike Hilton and a draft to be taken to the Kobe meeting, in April.
4. A preliminary outline of a project on human dimensions of climate change, to be developed by Dr. Campbell, by April.

**Research Project on Intraseasonal Variations in Precipitation (Indian to west Pacific Ocean)**

The Department of Geography at East Carolina University is conducting research on intraseasonal variations in precipitation from the Indian to west Pacific Ocean as a forcing mechanism for El Niño/Southern Oscillation (ENSO). The study region includes the countries of Sri Lanka, Maldives, Indonesia, Malaysia, Philippines, Brunei, Papua New Guinea, Australia, Micronesia, and Fiji. The three-year project, funded by NASA's Precipitation Measurement Mission, is headed by principal investigator Dr. Scott Curtis. The study will analyse Tropical Rainfall Measuring Mission (TRMM) and other current satellite-based precipitation information for evidence of climate variations within the Indo-Pacific sector that are related to the development of El Niño. Part of the work, the climatology of precipitation over and surrounding key islands of the Maritime Continent, is the basis of Mr. Ahmed Salahuddin's Ph.D. thesis. For more information about the project please see: (<http://www.personal.ecu.edu/curtisw/>). A NASA web feature can be found at: ([http://www.nasa.gov/vision/earth/lookingatearth/el\\_nino\\_ocean.html](http://www.nasa.gov/vision/earth/lookingatearth/el_nino_ocean.html)).

Other project areas identified for development during the year are:

1. Waste management, to be conducted by Prof. Koshy with SPREP.
2. Exploration of a possible project on water security by Prof. Koshy, Dr. James Terry, Dr. Biman Chand and Alastair Woodward.
3. Prof. Mike Hamnett will explore the possibility of another climate and health related project.
4. A project on population, to be discussed by Prof. Koshy and Ms. Kesaia Seniloli.

***APN Liaison Officer Report for South Asia***

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## ***APN Liaison Officer Report for South Asia***

- **Overview of work carried out on behalf of the APN:**

**Contribution to the APN Newsletter:**

1. Submitted quarterly inputs about global change activities carried out in South Asia for the APN Newsletter.
2. Interacted with project leaders of APN funded projects in South Asia to submit articles for the APN Newsletter.

**Information Exchange:**

1. Disseminated the APN 'Call for Proposals' among researchers and scientists of South Asia.
2. Assisted South Asian scientists in finding potential partners from the region, for collaborative research.
3. Assisted South Asian global change scientists in the development of their proposals, for submission to the APN.
4. Disseminated the APN's role and activities among South Asian researchers.
5. Distributed the APN Newsletter throughout the region.
6. Distributed reports of workshops and information of other global change events to the South Asian global change community.
7. Distributed information about START activities in the region.
8. Interacted closely with various START activities in the region.

**Workshops Attended:**

Discussion Meeting on Urban Air Quality Management with Respect to Suspended Particulate Matter. 5 March 2004. New Delhi, India.

National Workshop on India's Initial National Communication (NATCOM) to the United Nations Framework Convention on Climate Change. 26 March 2004. New Delhi, India.

Workshop on Persistent Organic Pollutants (POPs). 7 May 2004. New Delhi, India.

IES-India Policy Makers Meeting. 29 June 2004. New Delhi, India.

India-US Meeting on Climate Change Science. 26-28 July 2004. Manesar, India.

Indo-EU Workshop on Climate Change and Natural Disasters. 6-10 September 2004. Hyderabad, India.

Round Table Consultation of Resource Panellists on Climate Change. 9 October 2004. New Delhi, India.

GCOS Regional Workshop for South & South-West Asia. 11-13 October 2004. New Delhi, India.

The 5<sup>th</sup> Authors/Experts Meeting for the Preparation of 2006 IPCC National Greenhouse Gas Inventories Guidelines: Waste. 2-4 November 2004. Ottawa, Canada.

Better Air Quality 2004. 6-8 December 2004. Agra, India.

UTURN Asia Combined APN Synthesis Workshop and SARCS Emission Project Initial Meeting. 6-8 January 2005. Chiang Mai, Thailand.

The 2nd Workshop on GHG Inventories in Asia Region. (APN CAPaBLE Programme.) 7-8 February 2005. Shanghai, China.

CGE Hands-on Training Workshop on National Greenhouse Gas Inventories for the Asian Region Shanghai. 8-12 February 2005. Shanghai, China.

- **Overview of Regional Activities:**

***Workshops and Meetings:***

**5 March, 2004. Discussion Meeting on Urban Air Quality Management with Respect to Suspended Particulate Matter. New Delhi, India**

The Department of Science and Technology (DST) of India and the Japan International Cooperation Agency (JICA) organised a meeting to discuss the issue of urban air quality management, with specific focus on suspended particulate matter (SPM) in mega-cities like Delhi, due to their adverse impacts on human health.

**26 March, 2004. National Workshop on India's Initial National Communication (NATCOM) to the United Nations Framework Convention on Climate Change. New Delhi, India**

This workshop was held to apprise the Indian stakeholders and to discuss India's 'Initial National Communication,' which was prepared to fulfill India's commitment to the UNFCCC. A general description of steps taken or envisaged to implement the convention, in addition to other information related to the achievement of the objectives of the convention, was discussed during the workshop.

**7 May, 2004. Workshop on Persistent Organic Pollutants (POPs). New Delhi, India**

The 'Workshop on Persistent Organic Pollutants' (POPs) discussed the steps which are required to be undertaken by the Government of India to fulfill its commitment to 'The Stockholm Convention'. This is a global treaty to protect human health and the environment from persistent organic pollutants. Participants of this workshop discussed, in detail, the methodologies for preparing inventories of stock and emissions of POPs and monitoring mechanisms.

**7-9 June, 2004. Regional Seminar on the United Nations Convention to Combat Desertification (UNCCD). Islamabad, Pakistan**

The seminar launched the 'Thematic Programme Network (TPN6)' on the implementation of 'Integrated Local Areas Development Programme (LADPs)' initiatives in the context of the regional action programme to combat desertification, in Asia. Sixteen countries attended this seminar, which was expected to develop strategies to challenge the problem of desertification, by directly involving and coordinating with local communities. It is hoped that these strategies will help foster the growth of locally developed initiatives of combating desertification and assisting the poor, in managing natural resources.

**29 June, 2004. IES-India Policy Makers Meeting. New Delhi, India**

The U.S. Environmental Protection Agency (USEPA), U.S. Agency for International Development (USAID), the Environmental Protection Training and Research Institute (EPTRI) and the National Renewable Energy Laboratory (NREL) organised a 'Policy Makers Meeting,' in New Delhi, to disseminate the results of their 'Integrated Environmental Strategy (IES) Program,' in India. The 'IES-India Program' is a co-benefit assessment program that focuses on the following themes: identifying and analysing clean energy policies and measures that reduce local air pollution, calculating the associated public health and economic value of the air quality improvements, and qualifying the reduction of greenhouse gas emissions. This program includes education/outreach activities, targeting the private sector and the general public, to help build collaboration for implementation of cost effective measures.

**26-28 July, 2004. India-US Meeting on Climate Change Science. Manesar, India**

This meeting brought together scientists from India and the U.S. to discuss specific technical and research integration aspects of joint science projects. These projects are intended to address gaps in the knowledge base and, therefore, improve the overall observational and predictive capabilities in the climate change arena. This meeting on climate change focused on key priority areas such as, aerosols forcing, seasonal forecasting, ocean observations and monitoring atmospheric gases.

**6-10 September, 2004. Indo-EU Workshop on Climate Change and Natural Disasters. Hyderabad, India**

This workshop provided a forum for experts, from the European Union and India, to discuss both current and long-term issues related to natural disasters and climate change. Various research areas under 'Climate Change' include: global warming and climate change, atmospheric pollutants and climate forcing, albedo reduction, micro and meso-scale climate modelling, ocean atmosphere coupling, stratospheric ozone and climate interactions, tropical monsoon dynamics, satellite climatology and, medium range weather forecasting, etc. Under the theme of 'Natural Disasters,' research issues include: floods and flash floods, earthquakes, landslides, forest fires, desertification and droughts.

**9 October, 2004. Round Table Consultation of Resource Panellists on Climate Change. New Delhi, India**

The primary objective of the workshop was to bring together key scientists, legislators, administrators and non-governmental organisations, from the international and national community, to assess the rapidly changing environment and examine new proposals for international cooperation, based on principles of contraction and equity. During this conference, the participants from India and Europe debated the global campaign for the principle of equity to be incorporated into international climate change policy.

**11-13 October, 2004. GCOS Regional Workshop for South and South-West Asia. New Delhi, India**

The regional workshop of Global Climate Observing Systems (GCOS) for South and South-West Asia was hosted by India Meteorological Department in New Delhi from 11-13 October, 2004, during which delegates from South and South-West Asia discussed opportunities to improve the GCOS network, in this region.

**9-11 November, 2004. The 22<sup>nd</sup> Session of the IPCC. New Delhi, India**

The Inter-governmental Panel on Climate Change (IPCC) met from 9-11 November, 2004, in New Delhi to discuss the scope, content, and process of its 4th Assessment Report (AR4). The IPCC's 22nd session addressed the following: AR4 Synthesis Report, various other AR4 products, outreach and communications strategies for AR4 and, the IPCC's programme and budget for 2005-8, and election procedures. Delegates also heard progress reports on: working group contributions to the AR4, the Special Report on Safeguarding the Ozone Layer, the Global Climate System, the Special Report on Carbon Dioxide Capture and Storage, the 2006 IPCC Guidelines for National Greenhouse Gas Inventories and, the work of the Task Group on Data and Scenario Support for Impact and Climate Analysis.

**24-26 November, 2004. GFSE Regional Workshop - Access to Energy for Sustainable Development and Policies for Rural Areas. Paro, Bhutan**

The Global Forum on Sustainable Energy organised the workshop to discuss access to energy supplies as a means of securing sustainable development in the rural

areas of a region. The regions cover parts of Afghanistan, Bangladesh, Bhutan, China (Tibet), India, Myanmar/Burma, Nepal, and Pakistan. In addition, the workshop included discussions on the Millennium Development Goals, and on the EU-Energy Initiative (EUEI), which focuses on poverty eradication and sustainable development.

**5-6 December, 2004. Securing Sustainable Livelihoods in the Hindu Kush-Himalayas: Directions for Future Research, Development, and Cooperation. Kathmandu, Nepal**

The International Centre for Integrated Mountain Development (ICIMOD) organised the symposium to reflect on the Centre's achievements during the past two decades and to look into the future in order to meet the challenges emerging in the HKH region.

**6-8 December, 2004. Better Air Quality 2004. Agra, India**

The Clean Air Initiative for Asian Cities of the Asian Development Bank organised the Better Air Quality (BAQ) 2004 regional workshop, in Agra. More than 600 experts from around the globe gathered, during BAQ 2004, to discuss air quality issues and present updated information on air quality management research and strategies. The workshop also provided a venue for senior policy-makers and stakeholders, in Asia, to exchange experiences. The details of BAQ 2004 and the various presentations made during the workshop are available at ([www.baq2004.org](http://www.baq2004.org)).

**Capacity-Building Activities:**

**The APN CAPaBLE Programme:**

Under the APN CAPaBLE Programme, the following workshops have been organised for capacity building/capacity enhancement of South Asian researchers:

1. South Asia Regional Training Workshop on Crop Simulation Modelling. June 28 - July 9 2004 at Chiang Mai University, Thailand, under APN CABaBLE project (2003-CRP-Theme I- Khan).
2. Workshop on Integrated Assessment Models for Developing Countries- Sustainable Development and GHG Mitigation Opportunities. 9-10 August 2004 at Asian Institute of Technology, Bangkok, Thailand, under APN CABaBLE project (2003-CRP-Theme II- Shukla).
3. South Asia Training Workshop on Watershed/Water Management Modelling. 4-15 October 2004, Islamabad, Pakistan, under APN CABaBLE project (2003-CRP-Theme I- Khan).
4. South Asia Workshop on Review and Harmonisation of Climate Change Scenarios. 13-17 December 2004, Kathmandu, Nepal, under APN CABaBLE project (2003-CRP-Theme I- Khan).

**START Advance Institutes:**

**START Advance Institute 1: Climatic Variability and Food Security – Projects in South Asia**

1. Application of Seasonal Climate Forecast for Sustainable Agriculture Production in Telangana sub-division of Andhra Pradesh, India – K.K. Singh.
2. Improving Food Security and Resource Use of Irrigated Crop Production Systems through Climate Forecasts in Southern India - R. Selvaraju.
3. Will Climate Forecasting and New Knowledge Tools Help Resource-Poor Farmers From Debt to Prosperity? Farmers' Participatory Approach to Manage Climate Variability (India) - *Nageswara Rao*.

**4. Localised Climate Forecasting System: Seasonal Climate and Weather Prediction for Farm Level Decision-Making (India) - Rengalakshmi Raj.**

**START Advance Institute 2: Urbanisation, Emissions, and the Global Carbon Cycle – Projects in South Asia**

1. Energy, Environment, and Mobility in South Asian Cities - Ranjan Bose.
2. Economic Analysis of Health Benefits from Air Pollution Reduction: A Comprehensive Study of Delhi and Calcutta - Mitali Das Gupta.
3. Urban Transportation and Emission Interactions in Kathmandu Valley, Nepal: Strategies for integrated carbon concerns into local air pollution - Shobhakar Dhakal.
4. A Quality-of-Life Approach to Sustainable Transportation in the Colombo Metro Region, Sri Lanka: A model for other South Asian Cities - Rohinton Emmanuel.

**START Advance Institute 3: Assessing Vulnerability to Global Change and Global Environmental Risks – Participants selected from South Asia**

1. Ulka Kelkar (India), Upasana Sharma (India) & Archana Shrestha (Nepal).

• **Outcomes and Products:**

1. The 'Sri Lanka National Committee of IGBP' published the final report of the APN project on 'Assessment of Nutrient, Sediments and Carbon Fluxes to the Coastal Zone in South Asia and their Relationship to Human Activities'. Australia, Bangladesh, India, Nepal, Pakistan, Sri Lanka and the USA participated in this project. The final report is available at ([www.nsf.ac.slk/slaas/cfweb](http://www.nsf.ac.slk/slaas/cfweb)) and CD-ROM.
2. LOICZ is establishing a 'Regional IPO Node,' in Colombo, Sri Lanka, under its programme of setting up a network of regional IPO Nodes during its second phase (2003-2012). The National Science Foundation of Sri Lanka will host this facility.
3. The Ministry of Environment and Forests, in India, has released the following publications under activities related to India's Initial National Communication to UNFCCC:
  - a. Proceedings of the Workshop on Uncertainty Reduction in Greenhouse Gas Inventories.
  - b. Proceedings of the Workshop on Vulnerability Assessment and Adaptation Due to Climate Change on Indian Agriculture, Forestry and Natural Ecosystems.
  - c. Proceedings of the Workshop on Vulnerability Assessment and Adaptation Due to Climate Change on Indian Water Resources, Coastal Zones and Human Health.
  - d. Proceedings of the Workshop on Scenarios and Future Emissions.

• **Future Activities:**

**Reinforcement of networking efforts among the scientists, researchers and other stakeholders in the South Asian region.**



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**APN Liaison Officer Report for Southeast Asia**

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## APN Liaison Officer Report for Southeast Asia

- **Overview of work carried out on behalf of the APN:**

1. During 2004/2005, the Liaison Officer (hereinafter referred to as LO) submitted a total of 17 reports in all 4 issues of the APN Newsletter: Vol.10, No.2-4, and Vol.11, No. 1.
2. The LO attended seven conferences and workshops in the region, on behalf of the APN. Some of the major workshops and conferences were:
  - a. CAPaBLE 2003-CB01, in Lao PDR and Thailand; CAPaBLE CRP Theme II, in Patumthani, Thailand.
  - b. The Dialogue: Climate-Sustainable Development – Society: Implications and Response, in Bangkok, Thailand.
  - c. The ESCAP Subcommittee on Environment and Sustainable Development First Session, in Bangkok, Thailand.
  - d. The Second AIACC Regional Workshop for Asia and the Pacific, in Manila, Philippines.

- **Overview of Regional Activities:**

During 2004/2005, there were a number of regional and international activities on global change organised in the Southeast Asia Region.

1. One of the major activities on climate change impacts and climate variability was the CAPaBLE CB-01 project on 'Building Capacity of Mekong River Countries to Assess Impacts from Climate Change - Case Study Approach on Assessment of Community Vulnerability and Adaptation to Impact of Climate Change on Water Resources and Food Production,' which was jointly funded by the APN and the AIACC. The objective of this project was to study the regional climate scenarios and impacts of climate change of food products and water resources. Workshops and training sessions on theoretical foundations and computer models and techniques were organised with the objective to build human resources capacity in Lao PDR, Thailand, and Viet Nam, as well as to develop networks at local, national, and regional levels. Following the workshops, research studies were carried out in four selected pilot sites within the lower Mae Kong catchments, comprising the three countries. The project was concluded during the regional synthesis workshops, which delivered impressive results on capacity building and collaboration networks of scientific communities, within the region. Additionally, public awareness was raised through public media in Lao PDR and Thailand; with emphasis on the importance of climate change to the livelihood and social-economic development of countries in the region.
2. Besides this integrated comprehensive regional program, there were other activities such as:
  - a. The 5th APN workshop on indices and indications for monitoring trends in climate extremes in Melbourne, Australia.
  - b. The CAPaBLE CRP Theme II workshop on integrated assessment models for developing countries: assessing sustainable development of greenhouse gas mitigation opportunities in Patumthani, Thailand
  - c. The 2nd AIACC regional workshop for Asia and the Pacific in Manila, Philippines Dialogue: climate-sustainable development-society: implications and response in Bangkok, Thailand.

Policy-makers, scientists, from countries in the region, and international representatives participated in these activities.

3. Major activities organised under the theme of coastal zones and marine systems include the 5th International Conference on Asian Marine Geology, and the 1st Annual meeting of IGCP475 DeltaMAP project and the APN Mega-Delta project in Bangkok and Ayudhaya, Thailand; and the 2nd SEAGOOS Consultative Meeting Interim Working Group (IWG) in Hangzhou, China. During the 1st Annual meeting of IGCP475 DeltaMAP and the APN Mega-Deltas, scientists were given the opportunity to exchange ideas on and discuss the mega-deltas in the Asia Region. During the second quarter of fiscal 2004, there was an initiative to set-up a Southeast Asia Global Ocean Observing System (SEAGOOS). The terms of reference was drafted by Dr. Liew Soo Chin. This activity was part of an initiative of IOC and will be funded by the EU.
4. There was also an activity on integrated assessment under the topic of Monsoon Asia Integrated Regional Study (MAIRS) where SARCS members and local experts discussed integrated regional studies on the Rapid Assessment Project (RAP) for Southeast Asia. Currently, chapter outlines, a list of contributors and author review literature are being developed. This MAIRS study is also supported by the APN.
5. Two governmental and non-governmental policy relevant activities, which addressed the topic of sustainable development, were organised within the region. The ESCAP subcommittee on environmental and sustainable development 1<sup>st</sup> session in Bangkok, Thailand and, the 3<sup>rd</sup> IUCN world conservation congress in Bangkok, Thailand. During the 1<sup>st</sup> session of ESCAP, conference policy-makers at national, regional and global levels participated and addressed the promotion of sustainable development in Asia and the Pacific. Almost 1,000 of the world's leading scientists and over 200 business representatives attended the IUCN conference.
6. A major global event – the 10<sup>th</sup> ASEAN Summit was organised in Vientiane, Lao PDR. During the session, ASEAN leaders addressed issues on environmental and natural resource protection and sustainable development.
7. On 26<sup>th</sup> December 2004, an underwater earthquake, off the Coast of Indonesia, triggered the Tsunami that took the lives of over 156,000 people and affected the livelihoods of over 5 million people throughout the following 11 countries: Indonesia, Sri Lanka, India, Thailand, Malaysia, Maldives, Burma, Somalia, Bangladesh, Kenya and Tanzania. The catastrophe attracted attention from countries in the region on disaster management and relief operations which led to building regional collaboration. So far the APN's role in this area within the region is still limited. It is suggested that the APN increases its role in developing awareness of disaster management and mitigation at national and regional levels. It should, however, be noted that the APN organised and convened a joint public forum, with the WHO, on 'climate calamities and human health' at the recent World Disaster Reduction Conference in Kobe in January 2005. A follow-up activity is currently being developed and will be presented, for approval, at the APN's 10<sup>th</sup> Inter-Governmental Meeting in Kobe in April 2005.

#### **Workshops and Meetings:**

**19-21 April 2004. The 2nd SEAGOOS Consultative Meeting Interim Working**

**Group (IWG). Hangzhou, China**

Nearly twenty scientists and administrators from Southeast Asian countries and China met during the 6th IOC/WESTPAC International Scientific Symposium to further discuss the Terms of Reference (hereinafter referred to as ToR) for the Southeast Asia Global Ocean Observing System (SEAGOOS). The ToR was drafted by Dr. Liew Soo Chin, National University of Singapore, based on the agreement made during the 1st Consultative Meeting in Kuala Lumpur, in October 2003. During the 2nd Consultative Meeting, experts discussed how SEAGOOS would operate under the framework of IOC/WESTPAC and suggested that modifications be made to the drafted ToR.

**7-8 June 2004. SARCS Meeting and MAIRS SEA-RAP Initial Planning Meeting. Chung-Li, Chinese-Taiwan**

The annual meeting of the Southeast Asia Regional Committee for START (SARCS) was held at and sponsored by the National Central University in Chung-Li, Chinese-Taiwan; it was hosted by the Secretariat Office. Participants of the meeting included committee members from eight Southeast Asian countries, local guests and Hassan Virji, Deputy Director of the International START Secretariat. During the meeting, the committee reviewed and discussed past regional activities carried out by the SARCS Secretariat, SEA START RC and SARCS Science Coordinator. In addition, the leaders of five regional projects, strongly related to SARCS, gave updates on the progress of their projects. Potentially new regional activities were also discussed and coordinators for each activity were assigned. The coordinators role is to develop proposals which are to be submitted to appropriate funding agencies, such as the APN.

In conjunction with the SARCS meeting, SARCS members and local experts also discussed and agreed on the outline of sections and chapters of the Rapid Assessment Project (RAP) for Southeast Asia. This will be an important step towards the research framework of the Monsoon Asia Integrated Regional Study (MAIRS). The APN allocated funds to provide partial support to the MAIRS RAP in Southeast Asia.

**29-30 July 2004. APN CAPaBLE CB-01 Synthesis Workshop on the Study of Climate Change Impacts on Water Resources and Rain-fed Agriculture Production. Vientiane, Lao PDR**

This synthesis workshop marked the conclusion of the first phase of the APN CAPaBLE CB-01 Project, "Building Capacity of Mekong River Countries to Assess Impacts from Climate Change: Case Study Approach on Assessment of Community Vulnerability and Adaptation to Impact of Climate Change on Water Resources and Food Production". From January 2004, a series of training workshops, pilot research studies, using the tools and real data of studied areas in Lao PDR, Thailand and Viet Nam, conferences and capacity building activities, were arranged.

This workshop was organised by the APN LIAISON OFFICE/SEA START RC and locally hosted by the Science, Technology, and Environment Agency (STEA) of Lao PDR. The main objective of the project was capacity building. Capacity building not only initiated the establishment of scientific capacity for Laos, Thai, and Vietnamese scientists on the assessment methodology for the impact of climate change, but also through the projects, it aided in the development of a collaborative network of scientific communities for future cooperation on the study of climate change impacts, at the regional scale.

Mr. Sakhone Chaleunvong, Vice-Chair of STEA gave the opening address at the workshop. The following key people on climate change in the region presented and made comments during the workshop: an IPCC Working Group I vice chair and Bureau member, Dr. Kansri Boonpragob, an official Representative of Thailand and representative of the APN national Focal Point, Dr. Asdaporn Krairapanond, the APN SPG member from Lao PDR, Mr. Chanthanet Boualapha, and, the APN SPG member from Thailand, Dr. Jariya Boonjawat. Prior to the main workshop, an information assembly for project team members and the media from Lao PDR and Thailand was organised. The purpose of this information assembly was to establish community awareness on the importance of climate change to the livelihood and social-economic development of countries in the region.

Participants of the workshop included 22 scientists from Lao PDR, Thailand and Viet Nam; they represented over ten government line agencies, national research institutes, and universities. The participants presented their research findings from selected sites since the two earlier training workshops on theoretical foundations and computer modeling applications in the assessment of climate change impacts, especially on water resources and the agriculture sector. The regional outcomes of the impacts of future climate change on the two sectors were compiled from pilot site studies and synthesised by respective focus group leaders, Drs. Anond Snidvongs and Attachai Jintrawet.

The research outcomes and capacity gained by the scientists that participated in the CAPaBLE CB-01 were very impressive. Participants and policy-makers from the workshop are looking forward to Phase 2 of this APN CAPaBLE project which will cover the human dimensions of vulnerability and adaptation to climate change. Studies will also include the assessment of human and institutional adaptive capacity and policy analysis for appropriate strategic development in order to manage the future impact of climate change as part of the sustainable development process.

**9-10 August 2004. CAPaBLE CRP Theme II Workshop on Integrated Assessment Models for Developing Countries: Assessing Sustainable Development and Greenhouse Gas Mitigation Opportunities. Pathumthani, Thailand**

The objective of this CAPaBLE workshop, led by Professor P. R. Shukla of the Indian Institute of Management, was to make researchers and policy-makers in Asia aware of the efforts of using Integrated Assessment Models for policy analysis on sustainable development, in developing countries. Participants of the workshop included approximately 25 policy-makers and senior technical experts from Bangladesh, India, Indonesia, Japan, Philippines, Sri Lanka, Thailand, and Viet Nam, as well as the United Nations and other international agencies. During the workshop, there was detailed discussion on the integrated assessment models and their applications, and on the state-of-the-art environmental innovations and strategies for sustainable development. Since the topic of greenhouse gas emissions is quite a sensitive issue among countries in the region, a recommendation was made to increase communications between the countries concerned. This should not only be at the national Focal Point level but also with academics, agencies and civil society as well. To facilitate this, it was proposed that the APN, as a global change research network, could potentially be a mechanism for such communications.

**19 August 2004. Dialogue: Climate—Sustainable Development—Society: Implications and Response. Bangkok, Thailand**

The Dialogue was an event of the 5th Princess Chulabhorn International Science Congress held during 16-20 August 2004. It was co-hosted by the following

organisations: the International Research Institute for Climate Prediction, IRI, Columbia University; the United Nations Environment Programme; the Global Environment Action, GEA, Japan; and the Thailand Environmental Institute (TEI). This event was organised under the patronage of Professor Dr. H.R.H. Princess Chulabhorn to honor the 72<sup>nd</sup> Birthday of Her Majesty Queen Sirikit of Thailand. This event was participated by approximately 60 senior level participants from government agencies, business corporations, and academic and research institutes. Participating institutes included: H.E. Suwit Khunkitti, Minister of Natural Resources and Environment, Thailand, Professor Nay Htun, Former UN Assistant Secretary General, Professor Michael McElroy, Chair IRI Board of Overseers, Hon. Kazuo Aichi, Director General Global Environmental Action and former Minister of the Environment Agency of Japan, Mr. Kazuhiko Takemoto, Deputy Director General, Ministry of the Environment, Japan/APN national Focal Point, and, Dr. Tariq Banuri, Director Stockholm Environment Institute Asia. The Dialogue addressed the impacts of climate variation on health, agriculture, food security, and water resources. Topics for discussion during the event included: measurement and monitoring of climate variation and change, climate effects on human health, agriculture and food security: the role of climate variation and change, climate and water, and a round table discussion on potential opportunities for collaboration to increase knowledge for response options. Participants also examined and discussed the opportunities to increase protection and improvement of the health and well-being of people, enhance food security, manage water resources, and review the state of scientific knowledge to support policies to promote sustainable development.

### **29 September–1 October 2004. ESCAP Subcommittee on Environment and Sustainable Development First Session. Bangkok, Thailand**

International organisations, United Nations bodies and specialised agencies, and 26 UN member countries throughout Asia and Australia participated in the 1st Session of ESCAP Subcommittee on Environment and Sustainable Development, in Bangkok. During the session, the APN was represented by Dr. Jariya Boonjawat, SPG member for Thailand, and Dr. Anond Snidvongs, Liaison Officer for SEA. Three key themes, covering the multi-stakeholder partnerships in promoting sustainable development in Asia and the Pacific, were addressed. These key themes were: 1) energy services for sustainable development in rural areas, 2) water resources management for sustainable development and, 3) prevention and control of dust and sandstorms.

There was also discussion on the possibility of support from the APN and partnership with UNESCAP regarding the sustainable development of the Asia-Pacific region. In particular, the theme of dust and sand storms, which is linked with two research priorities of the APN; changes in atmospheric composition and changes in terrestrial ecosystems. Hence, UNESCAP will communicate with the APN members to discuss the opportunities of future cooperation.

The plan for the next ministerial conference on environmental and development in Asia and the Pacific, which will convene in March 2005 in Seoul, Republic of Korea, was also discussed. The APN will co-sponsor and organise, along with ESCAP and IGBP, the eminent scientists' symposium on global change, environment and development.

### **2-5 November 2004. The 2nd AIACC Regional Workshop for Asia and the Pacific. Manila, Philippines**

The Environmental Forestry Programme at the University of Philippines hosted the 1st workshop in March 2003, in Bangkok, Thailand. The 2nd Regional Workshop on UNEP/START/TWAS projects under the 'Assessments of Impacts and Adaptations to

Climate Change (AIACC)' global initiative for Asia and the Pacific followed the 1st workshop. The AIACC granted eight regional pilot studies on climate change and its vulnerability and adaptation, during the past year. These pilot studies involved eight countries, in addition to the eight Small Island States, in the Asia-Pacific Region.

The meeting and workshop covered topics such as: Climate Change Assessments and Capacity Building in Asia and the Pacific Islands, the National Communications to the UNFCCC, the Stakeholder Engagement and Linking to Decision-Making, the Vulnerable Island and Coastal Communities, the Vulnerable Deltas and Watersheds, the Adaptation Opportunities and Capacities, the Vulnerable Production Systems, the Assessments and Adaptation Needs and Opportunities and Climate Variability, and Changes and Scenarios. During the four-day workshop, 98 participants from 20 countries, around the world, discussed their findings and developed the next step in responding to climate variation and its vulnerability. As well, the development of the Phase II of the AIACC project, which, for some countries, included national communications to the UNFCCC, was also discussed. In addition, several issues from their projects and the usage of climate modelling, particularly the GCM Models were presented.

During the workshop, Dr. Anond Snidvongs, as Liaison Officer for Southeast Asia, represented the APN, and also gave a presentation on 'Climate Means and Climate Variability Scenarios for Mainland Southeast Asia for Impact and Vulnerability Assessments'. The studies of which had been carried out by SEA START RC on future climate scenarios for mainland Southeast Asia.

#### **17-25 November 2004. The 3rd IUCN World Conservation Congress. Bangkok, Thailand**

Co-hosted by the Government of Thailand and IUCN, the World Conservation Union, the 3rd IUCN World Conservation Congress was held under the theme of 'Peace and Nature: Only One World'. This premier conservation event attracted over 4,900 people from states, government agencies and non-governmental organisations (NGOs) across the globe. Among the 4,900, almost 1,000 of the world's leading scientists, and over 200 business representatives, were also in attendance. The Congress, held every four years, addresses the business of the Union, and functions as a forum for debate on critical environmental issues and provides an opportunity to meet with representatives of IUCN members and environmental organisations working around the world.

Dr. Richard Cooper, Research Fellow from the SEA START RC and Coordinator of the SEA Regional Learning Center at Chulalongkorn University participated at the three-day World Conservation Forum. This forum addressed critical sustainable development issues under four broad themes including: 1) Ecosystem Management, 2) Health, Poverty and Conservation, 3) Biodiversity Loss and Species Extinction, and 4) Markets, Business and the Environment. There were more than 300 sessions including Global Synthesis Workshops and related workshops and events organised by IUCN members.

The congress presented an opportunity to highlight up-to-date scientific findings regarding the state of the global environment and growing business sector participation. It also recognised people and organisations for environmental excellence. Furthermore, more than 100 resolutions and recommendations, concerning major conservation policies and actions, were adopted at the Congress.

#### **29-30 November 2004. The 10th ASEAN Summit. Vientiane, Lao PDR**



During the summit, ASEAN leaders addressed the following issues: the economy and prosperity; security and peace; socio-cultural matters; and humanity. In addition, they agreed to accelerate the integration of 11 priority sectors under the Framework Agreement towards the ASEAN Economic Community (AEC), to be established by 2020. Memoranda and agreements, on comprehensive economic corporations between the Association of Southeast Asian Nations, and, Australia, China, New Zealand, India, Japan, Republic of Korea, and the Russian Federation, were developed.

Environmental and natural resource protection and sustainable development were among the topics under ASEAN Socio-Cultural Community's goals. These have been embedded into the ASEAN Vision 2020, by promoting a culture of science and technology, and enhancing cooperation in the utilisation of appropriate applied science and technology in socio-economic activities to improve social well-being and develop mechanisms for environmental governance. The ASEAN Socio-Cultural Committee's action plan marked ASEAN's commitment to the Johannesburg Plan of Implementation of the World Summit for Sustainable Development (WSSD). It focussed on the following ten priority areas: 1) global environmental issues; 2) land and forest fires and trans-boundary haze pollution; 3) coastal and marine environment; 4) sustainable forest management; 5) sustainable management of natural parks and protected areas; 6) freshwater resources; 7) public awareness and environmental education; 8) promotion of environmentally sound technologies and cleaner production; 9) urban environmental management and governance; and 10) sustainable monitoring and reporting, and database harmonisation. The strategic planning included regional and national driven initiatives set up of regional mechanism or standards, strengthen networks and partnerships, community building efforts, promote environmental education, and improve science and technology competence of ASEAN's human resources.

- **Outcomes and Products:**

The following outcomes have resulted from the 2004/2005 activities:

1. Two regional research networks, consisting of climate change scientists, were established for water resources and crop production.
2. Capacity building of human resources, networks, and collaboration at inter-governmental and institutional levels were initiated.
3. Training for scientists on tools and techniques was created to improve their know-how in conducting future research and studies in their respective countries.
4. Experts and scientists in the region will share their research results and studies as knowledge exchange sessions to enhance their capability in their future studies.
5. Development of institutional awareness, the collaborative network of the scientific community, and capacity; and an improvement of communications and coordination activities in the region.

- **Future Activities:**

7-9 April 2005. Meeting of the Southeast Asia Chapter Coordinators of the APN/SCOPE/START Rapid Assessment of Global Change in Monsoon Asia. Chiang Mai, Thailand.

23-27 May 2005. The 6th Session of the WESTPAC Sub-Commission. Nha Trang, Viet Nam.

29 August –1 September 2005. The SCOR Executive Committee Meeting. Cairns, Queensland, Australia.

19-23 September 2005. The 15th International Federation of Agricultural Movements (IFOAM) Congress. Adelaide, Australia.

13–17 November 2005. Greenhouse 2005: Action on Climate Control. Melbourne, Australia.

***APN Liaison Officer Report for Temperate East Asia***

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## ***APN Liaison Officer Report for Temperate East Asia***

- **Overview of work carried out on behalf of APN:**

1. Contribution to APN newsletter
  - a. Submitted quarterly regional reports for the APN newsletter.
2. Information exchange
  - a. Distributed the announcement of the APN call for proposals 2004-2005 to individual scientists, corresponding institutes and TEACOM members.
  - b. Distributed APN newsletters, leaflets and other related information to individual scientists, corresponding institutes and TEACOM members.
  - c. Communicated regularly with APN national Focal Points, SPG members and project leaders of APN Projects in East Asia.
3. Workshops attended as APN Liaison Officer
  - a. 26-28 July, 2004. The first review meeting of the APN/SCOPE/START book: A Review of Global Change Research in East Asia: Changes in the Human-Monsoon System of East Asia. Beijing, China.
  - b. 6-8 October, 2004. Workshop on APN/START/SCOPE Rapid Assessment of Global Environmental Change in East Asia. Hangzhou, China.
  - c. 4-9 December, 2004. Workshop on Climate Variability and Human Activities in Relation to Northeast Asian Land-ocean Interactions and Their Implications for Coastal Zone Management (APN 2004-18-NMY). Nanjing, China.

- **Overview of Regional Activities:**

### ***Workshops and Meetings***

March 22-26, 2004. The International Conference on High-Impact Weather and Climate: Understanding, Prediction, and Socio-Economic Consequences (ICHWC 2004). Seoul, Republic of Korea

ICHWC 2004, organised by KMA, KMS and the World Meteorological Organization (WMO), commemorated the centennial anniversary of modern meteorological observations by the Korea Meteorological Administration (KMA) and the 40th anniversary of the Korean Meteorological Society (KMS).

The conference consisted of three sub-conferences: weather, climate, and socio-economic impacts. Recently, the world has been suffering from extreme changes in weather and climate, which has caused a significant impact on human lives, societies, and economies. The conference offered an opportunity to disseminate knowledge, experience, and information on the diverse fields of high-impact weather and climate, among the participating scientists. It also contributed to the future organisation of international cooperative research on high-impact weather and climate.

24-29 May, 2004. The 4th International Symposium on Asian Monsoon System (ISAM4). Kunming-City, Yunnan Province, China

The symposium was organised by the Institute of Atmospheric Physics, Chinese Academy of Sciences (IAP/CAS), the University of Tokyo (Japan), and the Korea Meteorological Administration (KMA). It was hosted by the Project of Research on

the Formation Mechanism and Prediction Theory of Severe Climate Disasters in China—National Key Programme for Developing Basic Sciences, the IAP/CAS, the National Natural Science Foundation of China (NSFC) and the University of Yunnan. The symposium was supported by the State Ministry of Science and Technology (SMST) and NSFC.

Symposium topics included: Variability and Predictability of Asian Monsoon Systems, Physical Processes of Monsoon Variations, Impact of the Asian Monsoon on Droughts and Floods, Linkages between Monsoon Climate and Monsoon Weather, Analysis and Application of Monsoon-Related Field Experimental Data, Application of Satellite Remote Sensing Techniques to Asian Monsoons, Interaction between Monsoon and ENSO, Modelling of Asian Monsoon System, and Impacts of Global Warming on Asian Monsoons.

The symposium provided a good opportunity to exchange advanced ideas and experiences on the Asian Monsoon System, to discuss and re-evaluate our ability to predict monsoons by understanding their physical processes, and to exchange cooperative activities among monsoon scientists in East Asia and other countries. Furthermore, indices for measuring monsoons were also discussed at this symposium.

**25-28 May, 2004. International Conference on the Urban Dimensions of Environmental Change: Science, Exposures, Policies and Technologies. Shanghai, China**

This conference was sponsored by Montclair State University and East China Normal University, and partially funded by the U.S. National Science Foundation, National Natural Science Foundation of China, Shanghai Commission of Science and Technology, Hunter College and City University, New York.

Among the fundamental challenges of the present era are the range, complexity and interlocking nature of environmental problems, in urban areas and the limited response capacity and capability of cities. The conference addressed these challenges by integrating the concepts of vulnerability, sustainability, and environmental equity into the analysis of urban environmental management. These concepts have been formally theorised to a varying extent, but they do not yet to play a significant role in informed discussions of the urban environmental management community.

This conference, examined the causes, impacts, and responses to environmental change in the world's major cities and urban areas, as they relate to the issues of science and management. Topics included: policy, regulation, technology, impact adaptation, mitigation, remediation, and the need for integrated management structures, which relate to the complexity of environmental problems in urban areas. Discussions also pivoted on the implications of new and emerging environmental stresses, such as global climate change and the need for increased stakeholder involvement in urban environmental management. A fundamental question is: how current processes of urban environmental change and management (including problem identification, policy development, and policy implementation) intersect with issues of vulnerability, sustainability, and equity? All of which are emerging as crucial issues, in both developed and developing cities.

19-20 June, 2004. The 12th Environment Congress for Asia and the Pacific (ECO ASIA 2004). Tottori, Japan

The Ministry of Environment of Japan organised and hosted the Environment

Congress for Asia and the Pacific, which is an informal meeting of Environment Ministers from the Asia-Pacific region. The objective of the congress is to provide a forum in which Environment Ministers freely exchange views, as well as to promote cooperation in the environmental field in the Asia-Pacific region.

This congress was participated by Environment Ministers from Australia, Bangladesh, Brunei, Cambodia, Canada, China, Fiji, India, Indonesia, Japan, Lao PDR, Malaysia, Mongolia, Myanmar, Nepal, New Zealand, Pakistan, Papua New Guinea, Philippines, Republic of Korea, Russia, Samoa, Singapore, Sri Lanka, Thailand, Tonga, Tuvalu, United States of America and Viet Nam. Representatives from international organisations, including APN, were also in attendance.

27-30 June, 2004. The 3rd International Ocean-Atmosphere Conference of the Global Chinese. Beijing, China

The Third International Ocean-Atmosphere Conference of the Global Chinese, hosted by the Institute of Atmospheric Physics, Chinese Academy of Sciences, convened in Beijing, China. The conference, jointly organised by the Chinese Meteorological Society (CMS), the Chinese Oceanic Society (COS), the Institute of Atmospheric Physics (IAP) and the Chinese-American Oceanic and Atmospheric Association (COAA), provided a forum to present state-of-the-art science and technology, to discuss new developments, and to exchange ideas between different disciplines. What's more, the conference afforded the opportunity for professional networking; a great opportunity for individual and group collaboration between international scientists and engineers.

The theme of COAA 2004 was monitoring, prediction and understanding of extreme weather and climate, environmental protection, and oceanic resources. The conference program consisted of plenary sessions, scientific sessions, poster sessions, social activities and tours. A number of workshops and summer classes will follow the conference.

Presentations were given on the following issues: (A.1) Modelling and forecast of weather and climate, (A.2) Climate variability, global change and implications for East Asia, (A.3) Severe storms and flash floods, (A.4) Tropical meteorology, (A.5) Atmospheric remote sensing and data assimilation, (A.6) Boundary layer, and air-land interaction, (A.7) Air/cloud chemistry, aerosols, and urban environment, (A.8) Observations and modelling of hydrological processes, (O.1) New concepts, theories, methods and applications to oceanic sciences, (O.2) Field observations, (O.3) Laboratory and numerical simulations, (O.4) Oceanic remote sensing and data assimilation, (O.5) Ocean technology/engineering and navigation, (O.6) Air-sea interaction, (O.7) Physical oceanography, and other related topics.

#### **5-9 July, 2004. Training Workshop on Sea and Human Security. Hiroshima, Japan**

Forty-two participants, resource persons and observers, from 17 countries of the Asia-Pacific region, attended the week-long event. Participants included mid-career and high-level officials from Government organisations, as well as researchers and academics from oceanography or scientific institutions. The workshop was the first event of a three-year succession (2004-2006), on sea and human security. It followed the United Nations Institute for Training and Research (UNITAR) International Conference on Sea and Human Security (2002). Its objectives were to study the multiple dimensions of human security pertaining to seas and to contribute to national policy and institutional capacity in the management and protection of seas and oceans, through training.

The focus of discussion at the 2004 training workshop included: International maritime dispute settlement, Ocean governance structure, Balance between development and environmental protection, Coastal zone management, Marine environmental management and industrial involvement, Ports and sustainable development, Marine environmental monitoring and, Presentations of selected case studies (country reports and project reports).

The second cycle of the Sea and Human Security succession aims at conducting follow-up national/sub-regional sessions, in order to further intensify UNITAR's, training of trainers (ToT), objective. Participants of the 2004 workshop submitted project documents for UNITAR to consider follow-up possibilities and needs. Each year, two-to-three countries/institutions will be selected to co-organise modules at a country or sub-regional level, together with UNITAR. The overall (Asia-Pacific) regional objective will be to address the trade-off between development and conservation. HOAP, in cooperation with resource persons and partner institutions, will identify the main topics for each session throughout autumn and winter 2004, and training sessions could be organised in spring 2005.

**16-25 July, 2004. International Conference on Environmental Observations, Modelling and Information Systems ENVIROMIS—2004 and INTAS Strategic Scientific Workshop “Towards Integrated Multidisciplinary Study of the Northern Eurasia Climatic Hot Spot”. Tomsk, Russian Federation**

The conference was jointly organised by the Siberian Center for Environment Research and Training ([www.scert.ru](http://www.scert.ru)), the Institute for Optical Monitoring of the Siberian Branch of the Russian Academy of Sciences and, the Institute for Numerical Mathematics RAS, under the auspices of INCO Programme, INTAS and the IGBP National Committee.

The whole event was also aimed at overcoming the interdisciplinary barriers between specialists from different fields of environmental science, in addition to, narrowing the generation gap occurring in Environmental Sciences. It was also crucial for NIS countries, which are not yet in the EC. In order to mitigate its consequences and to facilitate professional skill growth for young scientists, a number of lectures were presented by leading NIS and European specialists, which allowed young participants to get first hand information about the hot topics of Environmental Science. Hopefully, this will draw them professionally to this vital field.

Amongst the participants were young and prominent scientists from Russia, Azerbaijan, Belarus, Georgia, Ukraine, Uzbekistan, Belgium, Germany, France and Italy. All participants unanimously thanked funding organisations, notably EC INCO Programme and INTAS, for their support of this significant event. The INTAS Strategic Scientific Workshop resulted in a clear vision regarding the development of the integrated regional study of the Earth System Science Partnership and identified the steps needed to be taken to aid the process.

The event had a strong impact on the new generation of cooperative links between NIS and INTAS country researchers. This should result in the establishment of a coherent set of new cooperative environmental projects.

**26-28 July, 2004. The 1st Review Meeting of the APN/SCOPE/START Book: A Review of Global Change Research in East Asia: Changes in the Human-Monsoon System of East Asia. Beijing, China**

This review meeting in Beijing received financial support from the START Regional Center for Temperate East Asia (START TEA-RC) and the International START Secretariat. In attendance were the International START Secretariat Director and Deputy Director, ICSU Vice-President, SCOPE Editor-in-Chief, Director of Department of High and New Technology Industrialisation of MOST, Deputy Director of Bureau of Resources and Environment of CAS, Lead Authors of the APN/SCOPE/ START Book in China and START TEA-RC researchers.

To meet the original design of the APN/SCOPE/START rapid assessment project, each chapter initially focused on major progress related to "what we know". The main scientific issues needed to be addressed, i.e., "what we do not know, but need to know".

As Part I of the APN/SCOPE/START Rapid Assessment Project, this workshop has been a good experience for follow-up activities in two other regions. Moreover, based on the current process summarised by this Beijing Workshop, the MAIRS East Asia Rapid Assessment Workshop will convene on 6-8 October, 2004, in Hangzhou.

#### **4-6 August, 2004. The 4th International Symposium on the Tibetan Plateau. Lhasa, Tibet, China**

The symposium was facilitated by the Institute of Tibetan Plateau Research, the Chinese Academy of Sciences (ITP, CAS), the Bureau of Sciences and Technology, the Tibet Autonomous Region and, the P. R. China and China Society on the Tibetan Plateau (CSTP).

The China State Key Project on Fundamental Research Planning "Formation and Evolution of Tibetan Plateau with its Environment and Resource Effects," which has been in operation since 1998, has already made great progress in fundamental theories and practical applications including: continental collision dynamics, plateau uplifting and abrupt environmental changes, ecology system of the plateau and global change, epigenetic processes of the plateau and their interaction mechanisms and, regional sustainable development on the plateau, etc. Internationally, Tibetan plateau research has been continuously developed and strengthened. It is, from a series of joint projects, based upon regional integrated investigations, developed as a scientific field with synthetic characters. This symposium provided a forum for scientists, interested in Tibetan plateau research, to strengthen the exchanges of achievements made thus far and to promote further research cooperation and improvement, in the quality of research.

#### **6-8 October, 2004. Workshop on APN/START/SCOPE Rapid Assessment of Global Environmental Change in East Asia. Hangzhou, China**

The Workshop, jointly supported by the APN, START funding from IGBP/ICSU, the Chinese Academy of Sciences (CAS), the Chinese Association of Science and Technology (CAST) and IGAC, was held in Hangzhou, China, 6-8 October, 2004.

The workshop was attended by lead authors of the APN/START/SCOPE East Asia Rapid Assessment Book, Monsoon Asia Integrated Regional Study (MAIRS) SSC members, scientists and experts in related areas, representatives from supported international organisations, and TEACOM members. Prof. Guo Huadong, the Secretary General and Director of Bureau of International Cooperation, Chinese Academy of Sciences, Prof. Shao Liqin, Director of Department of High and New Technology Industrialisation, The Ministry of Science and Technology, Prof. Peter Tyson, Vice-president of ICSU, Prof. Roland Fuchs and Prof. Hassan Virji, Director and Deputy Director of International START Secretariat, Prof. Mike MacCracken,



President of IAMAS, Prof. Fu Congbin, Chief Editor of APN/START/SCOPE East Asia Rapid Assessment Book and Director of START TEA-RC, Prof. John Steward, Chief Editor of SCOPE and, Ms. Yang Ying, APN Liaison Officer for East Asia Region, were also in attendance.

The workshop was opened by the host, Prof. Fu, and received welcome remarks from Prof. Guo Huadong of CAS and Prof. Shao Liqin of MOST. Prof. Peter Tyson and Prof. Roland Fuchs, on behalf of ICSU and START expressed their expectations and anticipations for the 4-day meeting and appreciated the support of MAIRS Project from the Chinese Government and scientists.

Presentations were given by the authors of the following five chapters: Driving forces of change, Variability of the East Asia Monsoon, Changes in land cover, ecosystems and regional climate and, Atmospheric composition changes and related impacts, and Changes in marine/coastal ecosystems.

During the 2-day workshop, participants were divided into four working groups to share their views and suggestions to improve these 24 chapters. The reporters of each group wrote a summary report of their session, which was then presented by the session chair in the Plenary Session. On the last day of the workshop, participants reviewed recommendations for observations and research from working groups 1-4 and considered a proposal for a coordinated regional observational, monitoring and modelling program. The participants also made recommendations on the direction of future research, under the MAIRS program for East Asia.

An Editorial Group Meeting and MAIRS Steering Group Meeting were held on 9 October 2004.

The APN/SCOPE/START Rapid Assessment book, part 1, A Review of Global Change Research in East Asia, will be published 9 months after the October workshop.

#### **9-12 November, 2004. The 4th APCN Working Group Meeting and the 3rd APCN Steering Committee Meeting. Busan, Republic of Korea**

The 4th APCN Working Group Meeting and the 3rd APCN Steering Committee Meeting were held in Busan, Republic of Korea, from 9-12 November, 2004.

APCN is a regional climate program designed to establish a communication channel for the exchange of regional climate information, among APEC economies.

APCN is aimed at producing reliable seasonal predictions to user communities, based on a well-validated, multi-model ensemble system (MMES). APCN produces real-time, seasonal forecasts and disseminates forecast products to member economies, which assist in the management of climate risks in the Asia-Pacific region.

The meeting received a welcome address from Kyung-Sup Shin, Administrator of KMA and was followed by four keynote lecturers: Prof. Yadowsun Boodhoo, President of CCI, WMO, Prof. Jose Luis Santos, Director of CIIFEN, Prof. Lorenz Maggaard, University of Hawaii and, Prof. In-Sik Kang, Seoul National University. Prof. Chuang-Kyu Park introduced the current status of APCN. The workshop is divided into three sessions:

Session I: Participating Models

Session II: APCN Seasonal Prediction System

Session III: Verification of APCN Products/Member Report

The APCN Steering Committee Meeting was held on 12 November, 2004.

**4-9 December, 2004. Workshop on Climate Variability and Human Activities in Relation to Northeast Asian Land-ocean Interactions and Their Implications for Coastal Zone Management (APN 2004-18-NMY). Nanjing, China**

This Project meeting received funding from APN and was kindly supported by the Geography Department of Nanjing University. Over 30 participants from Russia, People's Republic of China and Hong Kong, China attended this workshop. Also present was the APN Liaison Officer for East Asia Region, as the representative of APN.

Prof. Shu Gao, the Director of the Geography Department of Nanjing University, opened the workshop, followed by the APN Liaison Officer for East Asia Region, who then provided an update of APN activities. Dr. Konstantin A. Lutaenko, summarised the research that had been done so far and the remaining tasks that needed to be completed during this fiscal year. The participants then agreed on the main discussion points of 6th December.

On 5th December, the scientific presentations of the workshop were held in the lecture room of the Science and Technology Building of Nanjing University. Scientists of this APN project reported their research findings and some Chinese scientists introduced their related work on the Pearl River in China. Over 30 students, from the Geography Department of Nanjing University, were involved in this one-day scientific presentation.

On 6 December, participants discussed the outline of the monograph submitted to APN in 2006 and the final activity report for APN this year. After this workshop, participants of the project were asked to write a 3-page summary of their work, for the final activity report. At least one poster, such as the research about the Heilongjiang (Amur) River, will be provided to APN. Russian Scientists will try to include some results of this project to the Russian IGBP Annual Report. A number of research papers will be published in Russian.

7-8 December, participants participated in field observations of the Changjiang (Yangtze) River Delta, in Nanjing City and Zhenjiang City.

Proceedings of the workshop consisted of 30 scientific presentations which had been published before the meeting. This workshop also provided a good opportunity for the students of the Geography Department of Nanjing University to learn about current research results of the coastal zone areas and practice their English. Communications have been established between Chinese and Russian Scientists, as a result of the APN Project.

**10-17 January, 2005. The 2nd-Year Workshop of an APN Project the Mega-Deltas of Asia: Conceptual Model and its Application to Future Delta Vulnerability (APN 2004-06-CMY)**

Following the 1st year workshop, this workshop was jointly held with IGCP-475 and CCOP project (also headed by APN co-leaders, Dr. Y. Saito, and Dr. S. Goodbred). In total, more than 100 participants attended, of which more than 70 were from 22 countries and 30 from the host country, Viet Nam. As planned, the workshop focused on critiques of delta conceptual models, in light of the model establishment, in the past year. Modelling and management, both on natural and human dimensions, were key elements of the workshop. Individual Asia mega-delta models were addressed by local specialists in a series of keynote and oral presentations. During the workshop, a special session of delta-coast vulnerability, linked to the recent tsunami disaster, was organised. Invitations were given to those countries

which suffered as a result of the tsunami, including Indonesia, India, Philippines, Sri Lanka, and Thailand, to make presentations. Japanese scientists were also invited to present their long-term observations on how to recognise tsunami events in terms of mechanisms and the prevention of major impacts. Communications between physical and social scientists, engineers, and policy-makers went well. Issues were discussed at great length during the poster session, which added up to approximately 6 hours of the 3-day workshop. The workshop was beneficial for the 20 or so M.S and PhD local scientists, who are working on coastal environmental conservation. During the workshop, the opportunity for all participants to have an open discussion was arranged in order to hear feedback from the public, on our project themes. Comments can be viewed on the following website: ([www.megadelta.ecnu.edu.cn](http://www.megadelta.ecnu.edu.cn)). Pre-and-post meeting field trips took place to observe the evidence of sea-level fluctuations, sediment re-suspension, and coastal erosion of the Mekong delta coast.

### **May, 2004. Chinese-Taiwan Funds for Environment Projects**

Chinese-Taiwan has awarded a total of US \$125,000 to the South Pacific Applied Geoscience Commission (SOPAC), for 2004 Projects. This includes a \$25,000 grant for new scholarships and \$100,000 for five small projects. The five smaller projects include: continued support of Regional Earth Day celebrations, capacity building exercises for Tuvalu in reducing vulnerability to disasters and, water quality monitoring in the region. Other major areas such as, monitoring change in the Pacific Ocean and continuing the assessment of wave energy potential towards establishing a pilot project in the Pacific, will also benefit from these funds.

#### **• Outcomes and Products:**

1. The IGBP Series: Global Change and the Earth System, A Planet under Pressure, W. Steffen, A. Sanderson, P. D. Tyson, J. Jager, P.A. Matson, B. Moore III, F. Oldfield, K. Richardson, H. J. Schellnhuber, B. L. Turner II, R. J. Wasson, Springer, ISBN 3-540-40800-2, 2004
2. Proceedings of the APN Workshop on Climate Variability and Human Activities in Relation to Northeast Asian Land-ocean Interactions and Their Implications for Coastal Zone Management (APN 2004-18-NMY)
3. Outputs of the APN Project The Mega-deltas of Asia: Conceptual Model and its Application of Future Delta Vulnerability (APN 2004-06-CMY): 1) Workshop abstract proceedings and field trip guide; 2) APN Proceedings (being published at China Ocean Press, available in the late 2005); 3) APN project website: ([www.megadelta.ecnu.edu.cn](http://www.megadelta.ecnu.edu.cn)); 4) Peer-reviewed papers; draft manuscripts prepared by APN leaders participants; 5) A summary of the Ho-Chi-Minh Workshop on CD-ROM.

#### **• Future Activities:**

##### **1. Monsoon Asia Integrated Regional Studies (MAIRS)**

As part of the Monsoon Asia Integrated Regional Studies (MAIRS), the APN/SCOPE/START Rapid Assessment Project will continue the rapid assessment book in South Asia and Southeast Asia region. The first APN/SCOPE/START Rapid Assessment book will be published within 9 months of the October Hangzhou meeting. The International Project Office (IPO) formally opens in early 2005 at the Institute of Atmospheric Physics, Chinese Academy of Sciences. A Deputy Director and Information Officer will be appointed to work at the IPO.

## **2. The Mega-deltas of Asia: Conceptual Model and its Application to Future Delta Vulnerability (APN 2004-06-CMY)**

It is imperative for further collaboration through new funding, aimed at: 1) regional workshops to disseminate information, 2) field work in selected key areas and, 3) continuation of the effort to expand the knowledge of the delta model. Such efforts are already underway with the joint IGCP-475 Delta-MAP and CCOP DeISEA project co-led by Drs. Saito and Goodbred. Limited funding (less than US \$10,000) can, however, be used to support many participants from developing nations. Now, the APN Mega-Delta leaders and participants have found a renewed urgency to continue our work that began in the 1<sup>st</sup> and 2<sup>nd</sup> year of the APN project.

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## CAPaBLE Update

### 1. Summary of Progress

Following the launch of the CAPaBLE Programme on April 16<sup>th</sup> 2003, there have been considerable developments:

#### Year 1: April 2003-March 2004

- Announcement on the APN website and other websites in the GC community;
- Preparation of a poster and pamphlet for dissemination;
- Call for Proposals for comprehensive research project proposals;
- CAPaBLE Programme Development Workshop in Kobe an electronic version can be downloaded from the APN website at:  
<[http://www.apn.gr.jp/en/activity/capable/proceedings\\_pdw.pdf](http://www.apn.gr.jp/en/activity/capable/proceedings_pdw.pdf)>.
- Submission of proposals from various stakeholders within the APN community;
- The selection of CRP proposal reviewers and the establishment of an interim CAPaBLE Standing Committee (under the Steering Committee);
- Establishment of a review process for CRPs;
- Establishment of a "proposal application" for capacity building activities in 2003;
- Review of CRP and CB proposals by an Interim CAPaBLE Standing Committee and external IPCC reviewers;
- Selection and approval of two CRPs and eight capacity building activities;
- Establishment of a logo; and
- The opportunity to showcase CAPaBLE at various scientific and political fora in the region including:
  - PALM, Okinawa (2003)
  - Sustainable Development Conference, Perth, WA (Sep. 2003)
  - Climate & Policy Dialogue, Tokyo, Nov. 2003

#### Year 2: April 2004-March 2005

- 1 additional project selected for funding at the 9<sup>th</sup> IGM in Canberra (transferred from the regular call for proposals).
- The opportunity to showcase CAPaBLE at various scientific and political fora in the region including:
  - CAPaBLE 1<sup>st</sup> National Capacity Building Workshop (Pakistan) supported by IHDP and IGBP, June 2004.
  - 14<sup>th</sup> Asia-Pacific Seminar on Climate Change, Australia, September 2004
  - IGFA Meeting, Iceland, October 2004
  - 1<sup>st</sup> IAI/APN Interregional Activity – Workshops in Brazil (August 2004) and Australia (October 2004)
  - 5<sup>th</sup> Ministerial Conference on Economic Development (Side Event: Eminent Scientists Symposium), ROK, March 2005
- Headlines in national/local press and media coverage on TV in Fiji, Thailand and Pakistan.
- Convened the 1<sup>st</sup> **CAPaBLE Standing Committee (CSC) Meeting**
  - Chair Summary attached as **IGM/10/14-01/Appendix 1**  
**SPG/10/14-01/Appendix 1**

- Created (Draft) Terms of Reference for the CSC:

**IGM/10/14-01/Appendix 2**

**SPG/10/14-01/Appendix 2**

- Launched Call for Proposals for CB Activities (see 2 below).
- Produced 2 publications and 4 posters (see 3 below)

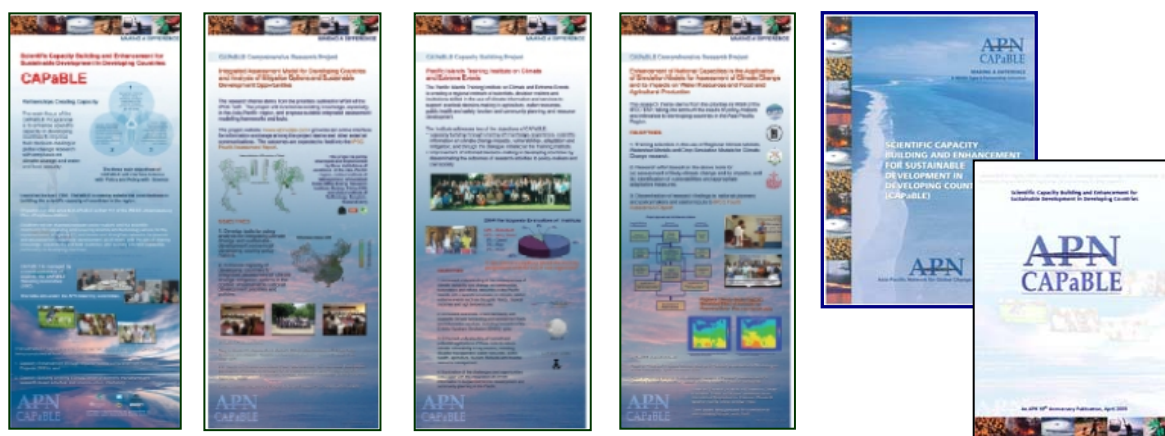
**2. First Call for Proposals for Capacity Building Activities**

The first call for proposals for capacity building activities was launched in November 2004 following the 1<sup>st</sup> CSC meeting. An “expression of interest” paper was posted and e-mailed to national Focal Points and SPG members.

- 13 proposals received: **IGM/10/14-01/Appendix3**  
**SPG/10/14-01/Appendix3**
- 4 members submitted as proponents; 9 others were supported by member countries (SPG member and/or nFP).
- Member countries responded with SPG and/or national Focal Point support. Bangladesh (3); Cambodia (1); India (2); Indonesia (1); Japan (2); Malaysia (1); Philippines (1); Sri Lanka (1); USA (1). Mongolia expressed interest to submit at a later date.

**3. CAPaBLE Publications and Publicity**

- 8-page brochure prepared for distribution at various scientific and political arenas
- 24-page CAPaBLE Publication for 10<sup>th</sup> Anniversary highlights **nine capacity building projects** and **two comprehensive research projects**.
- Four professional posters created: one general poster of CAPaBLE; two comprehensive research projects and one project for the Pacific Islands Training Institute



## 1<sup>st</sup> CAPaBLE Standing Committee (CSC) Chairperson's Summary

### **Opening**

APN Secretariat Director, Mr. Sombo Yamamura, opened the meeting by expressing his feelings of satisfaction in terms of the good recognition and progress that CAPaBLE has made since its launch in April, 2003. (Pakistan, Thailand etc). Mr. Yamamura emphasized that now we are in Year 2 of CAPaBLE, the name and quality should go hand in hand. Main objective of today's CSC is to discuss how we can ensure the quality of CAPaBLE in the future. Mr. Yamamura mentioned that the 3 main components of the 1<sup>st</sup> CSC Meeting were to review first year projects; discuss a plan for the current year, and discuss a plan for the future with the incorporation of CAPaBLE into APN's 2<sup>nd</sup> Strategic Plan for 2005-2010.

### **Item 1**

Dr. Andrew Matthews, SPG Co-Chair was elected as Chair of the meeting and the agenda was adopted as written.

### **Item 2**

As some of the participants were fairly new to the CAPaBLE Programme, Drs. Matthews and Stevenson gave an overview of the history of the Programme and its progress since the official launch in April, 2003. The key points are highlighted:

#### *History and Progress of the CAPaBLE Programme*

- The initiative was registered as a Type II Partnership Programme at WSSD, Sep. 2003, by the Ministry of the Environment, Japan. The Type II Partnership addressed mainly *Item 111 of the Johannesburg Plan of Implementation (JPOI)*.
- The proposal was presented to APN 8<sup>th</sup> IGM and was approved and endorsed.
- The focus of the Programme is "*Scientific Capacity Building & Enhancement for Sustainable Development in Developing Countries*" with an initial 5-year phase related to Climate Change and Water & Food Security.
- A "Programme Development Workshop" convened in Kobe in May 2003 to create an effective implementation plan for the CAPaBLE Programme, particularly in its first 3-year phase. Additional information is available from the APN website: CAPaBLE Programme Development Workshop
- Since the launch of the Programme, Hyogo Prefecture Government of Japan and 3 other member countries, Australia, New Zealand and USA have become stakeholders and are contributing financially to the Programme.
- The CAPaBLE Programme effectively has 2 pillars: that of "Capacity Enhancement – vis-à-vis regional-based Comprehensive Research Projects (CRPs)," and "Capacity Building" covering a broad range of activities at the national, regional and global levels.
- The main objectives of the CRPs are taken from IPCC TAR: WGII and WGIII.
- 2 Comprehensive research projects and 8 capacity building projects have been funded since the launch of CAPaBLE; a summary table is attached as **Appendix 1**.
- CAPaBLE and its activities are being showcased vis-à-vis brochures, posters presentations at various scientific and political arenas, and the APN and other GC-related organizations' websites.

### **Item 3**

The current CAPaBLE Standing Committee (CSC) and the Capacity Building

Committee (CBC) were discussed. Outcomes of the discussion highlighted a number of important issues and, effectively, the restructuring of the current CSC. The main changes are highlighted:

- Mentorship would be an element of the CAPaBLE Programme but specific mentors would not be assigned for the current Comprehensive Research Projects.
- Any assigned mentors would report to the Secretariat and, in addition to being a communication route between CSC and the CRP project leaders, would have an effective and real mentoring role. It is important that there be no “overseeing” but rather an “assistance and advisory” role for the “mentors”.
- APN needs to find which areas under the capacity building umbrella are relevant to APN. The area is too broad for APN to effectively cover all.
- Need to instil external expertise into the CSC particularly of those experts who have recently focused much effort in the area of capacity building. ICSU and UNESCO-IOC endeavours were highlighted.
- The CSC agreed that as a committee it should work under the SC to ensure transparency in terms of the implementation of the Programme and the mechanisms in place.
- Role and membership of the CSC:
  - How does the CSC work – mode of operation – important (TOR)
  - How do we embed CAPaBLE in the broader landscape
  - Strategic feature – finance/support/connections to the science community/connections to the policy interface etc.
  - Generally accepted by the CSC that mentors/advisors needed but NOT required as members.
  - Membership of CSC – no separate CB committee, rather CB advisers to CSC CB expert, Graeme Pearman (for example, Barbara Goebel, Roland Fuchs, Erlich Desa, ICSU, etc.).
  - ICSU will have a CB role in the Asia-Pacific region and we should communicate regularly to ensure there is no DUPLICATION.
  - This needs to be done in a way that builds our capacity to do things.

#### ***Item 4***

One of the outstanding issues since the launch of the CAPaBLE Programme was creating a terms of reference for the CSC to ensure effective implementation of the CAPaBLE Programme. The following key points were noted:

- CSC mode of operation – important that Terms of Reference (TOR) be established.
- CAPaBLE should be engaged in the broader global change community (the broader landscape)
- Strategic features need to be applied and there is a need to address finance/support/connections to the science community and connections to the policy interface etc.
- Logical progression and effective mechanisms to proceed from Phase I to Phase II (i.e. climate change to water and food security) is needed. What kind of mechanisms need to be implemented? A Call for Proposals? If so, when? This has to be discussed in more detail.
- Water & Food Security should perhaps become the 3<sup>rd</sup> pillar of CAPaBLE activities.
- National, regional and global activities are synergistically related to implement an effective Programme.
- Expertise could (should) be drawn from all global to regional levels; and problems tackled from both need to be considered.



- In assuring financial stability, and both sustainability and sustainable development; continuity is important and CAPaBLE should not be viewed as a “limited” programme with a shelf life.
- Both success of the Programme and transparency of procedural aspects and dissemination is of prime significance to ensure a future for CAPaBLE

The summarized points above led to the development of a draft TOR (**Appendix 2**).

#### ***Item 5: Financial Report and 2004 Budget Status***

The CAPaBLE Budget was presented by Mr. Yukihiro Imanari. A summary of the presentation and discussion is outlined:

- Approximately USD 80,000 is available for funding for the current year (2004)
- A contingency fund of about USD 20,000 (buffer to offset any negative exchange rate fluctuations) is also available.
- Approximately USD 11,000 is available for mentors (advisors). These funds are to be used for both CB and CRP activities.
- In total, there is currently USD 111,000 available under the CAPaBLE Programme.
- The CSC Committee agreed that, while there needs to be important emphasis on financial reports, there needs to be major review on the OUPUTS versus the original objectives.

The financial report is attached as **Appendix 3**

#### ***Items 6 and 7: Comprehensive Research Projects & Capacity Building Activities***

Main outcomes:

- The two current CRPS (**see Appendix 2**) were considered to be progressing extremely well and continuation into the second year was approved with some specific recommendations.
- The four continuing capacity building projects were also accepted for additional funding again with specific recommendations.
- Three completed projects are to submit a final report according to the specified template with emphasis on follow-up and self-sustainability in respect of the original objectives of the CAPaBLE Programme and the activity itself.
- For project 2003-CB-07 the project is ongoing and moving into Phase II. The balance available from the original allocation is to be used for phase 2 activities of the project. Justification – request **modification to a plan of activities** but the original objectives must be kept in place. This is a formless application.
- Mechanism for follow-up needs to be effectively put into place.
- Award letters to be issued and budget negotiated as per APN's standard practice.
- For the 10<sup>th</sup> IGM a Phase I intermediate product to be published highlighting the activities and successes to date. This is foreseen to be a glossy document, perhaps 10-15 pages that can be distributed to the wider audience in a strategic effort to enhance the CAPaBLE Programme and attract other stakeholders.
- Concept of a contact point between the CAPaBLE Standing Committee and the project is a must that PIs would have to live with but the role of mentoring should be at the higher advisory level that implies “helping” not “supervising” to ensure the project meets its goals.

### **Recommendations for 2 CRPs for Years 2 and 3 (& generally for CB activities)**

- Executive summary to be produced (include specifics) that details “non-technical” results and outcomes
- Workshop proceedings need not be produced in mass. These kinds of proceedings are intended for workshop participants. Therefore, submit proceedings in soft copy to APN that includes, as a major output, an executive summary of the workshop.
- How would we distribute the information? Executive summary – yes; but not the specific step-by-step information; all PowerPoints etc. The workshop proceedings could be distributed among participants.
- For wider dissemination, there is a need to concentrate more on producing peer reviewed papers rather than printing costly workshop proceedings, etc.

### **Review and Evaluation**

- Need to establish an effective review process and evaluation
- CAPaBLE, being a Type II capacity building programme, has a unique requirement in terms of providing decision-making tools.
- In establishing the review and evaluation, it is important to remember that Capacity building is different for different countries.  
For example in Global Change in Pakistan an effective mechanism would be to:
  - Step 1: Approach governmental level
  - Step 2: Approach scientists
  - Step 3: Fill in the gaps
  - Step 4: .....(One workshop highlighting GC is NOT ENOUGH.)
- Quantification, measurable and transferable results for CB activities is difficult. Can't measure “gut feelings” of successes.
- From a strategic perspective evaluation should be carried out as **an ongoing process** as opposed to **an evaluation at the end**.
- Measuring dissemination - what is a tangible method?
- Master Plan: How do you make a critical investment and measure its success?
- How can we take advantage of the Pakistan national capacity building workshop and try and use it at a pragmatic regional level?
- Pakistan: motivator was national interest from APN. This interested the Pakistan Academy of Sciences intrigued in that they are willing to leverage funds with APN to conduct another national activity for the scientists to come and discuss appropriate research that might be used for such an activity as capacity building for basic research in global change research.
- Mechanism for effective assessment:
  - Template is to be formatted that incorporates
    1. the original criteria in the proposals
    2. the criteria and goals of the CAPaBLE Programme
    3. need to avoid “scoring points” in assessment. Perhaps consider “strong” comments against the higher weight criteria; more general comments against the lower weight criteria.

### **Timeline and Outputs in Phase I (project completion; input to IPCC AR4; etc.)**

- The donor will want to know, in what tangible terms has capacity been built?
- What difference have you made?

- There needs to be some formal wording to ensure that the next review process is not "ad-hoc".
- "On the basis of the information, we ....."

#### **Outputs for 10<sup>th</sup> IGM for all CB/CRPs:**

- Glossy report to be produced. 15-page document....self evaluation according to the criteria. This is to be a summary report of ALL projects.
- Posters to be requested from the continuing MY projects
- Timeline: End February deadline (28<sup>th</sup> February).
- Two PIs for CRPS – can they be invited to make presentations at the IGM or at the Symposia? (Idea from Akio Takemoto).
- Key point is how to deliver the output of CAPaBLE to the 10<sup>th</sup> anniversary participants – we want to sell the Programme to the developing countries so now actually provide a glossy input by way of a publication for disseminating the results.

#### ***Item 8: New Capacity Building Activities for 2004/2005***

The discussion focussed more on an effective and transparent process for being able to invite proposals or expressions of interest from member countries and stakeholders. This was deemed important to ensure a sense of ownership that APN member countries need to feel a sense of belonging to APN. In this context, more emphasis was placed on implementing an effective procedure to invite proposals from APN member countries. While a number of concept papers had already been submitted, these were not given any attention but, rather, would be encouraged to resubmit after the formal request for expressions of interest from the member countries. Furthermore, in doing so, the member countries will be encouraged to contact their GC national committees which could be one or more of the four main Global Change Programmes, a country or other- initiated GC national programme. Activities at all geographical levels from national to regional and global are acceptable.

#### **Procedure and timeline for inviting new proposals:**

- 1st week in December – opportunity is announced to members
- 31st January deadline for submissions
- end-February deadline for review
- Open for APN members only (at least initially)
- Specifically asked to go through the national committees of the Global Change Programmes (example Earth System Science Partnership – in Australia)
- IHDP has tried this because it needs a dialogue between members of governing bodies of the GC programmes as well as the national committees and others.
- Capacity building proposal guidelines for new proposals to be updated and distributed to APN Members.
  - Set of guidelines outlining criteria for submission needs to be updated
  - This to be based on the first year CB Guide for proponents
  - Procedure for review, selection and endorsement of new projects to be discussed among the CSC members via e-mail in the ensuing 2 months.

#### ***Item 9: How should CAPaBLE be incorporated into the 2<sup>nd</sup> Strategic Plan?***

The following points were noted for consideration by the Steering Committee and the consultant when drafting the 2<sup>nd</sup> Strategic Plan:

- Strategic placement? Under the Science Agenda? Under Core Activities/Strategies?
- Should perhaps have 1-page in the 2<sup>nd</sup> SP with some narrative text and a diagram of the CAPaBLE Standing Committee and how it fits under the framework of the APN
- Opening: Opportunity to implement a Partnership Programme like CAPaBLE:
- In April, 2003 the APN launched a new programme on scientific capacity building and enhancement for sustainable development in developing countries under the framework of the APN. The CAPaBLE programme is an initiative to realize parts 107 to 114 of the Plan of Implementation for the WSSD<sup>3</sup> and was registered as a WSSD Type II Partnership initiative. Of particular relevance in the WSSD Plan of Implementation to the proposed programme is part 111: Establish regular channels between policy-makers and the scientific community for requesting and receiving science and technology advice for the implementation of Agenda 21, and create and strengthen networks for science and education for sustainable development, at all levels, with the aim of sharing knowledge, experiences and best practices, and building scientific capacities, particularly in developing countries. CAPaBLE is enhancing scientific capacity in developing countries to improve decision-making in climate change and Water and Food Security that are directly linked to their sustainable development. This is being achieved through a two-track process of capacity enhancement for experienced leading scientists and capacity building for aspiring scientists.....*follow on with main strategies:*

#### Points for consideration:

- Strategically we do NOT want to lose the CAPaBLE element and integrate it into the element of APN fully. Portfolio needed to ensure that CAPaBLE is a stand alone pillar of activities.
- Look at the initial timeframe: Capacity Building activities will not be limited to climate change but will focus on what the title states: **SCIENTIFIC CAPACITY BUILDING FOR SUSTAINABLE DEVELOPMENT** but in the broader global change context.
- Important question is how to raise the profile of the CAPaBLE Programme and get agencies and governments to invest in CAPaBLE. For example, how can we look at GEF as a potential sponsor of APN or some aspects of APN?
- Where can we find the information we need to determine whether approaching agencies such as GEF is a lost cause (or not)? A great deal of work needed here to determine the relationship that makes the difference.
- APN needs to think of *where* to focus the effort and *how* to focus the effort. Someone needs to commit some real time which means we need to invest some real resources.
- Strategic investment is needed. "Partnership" approach was the major key for funding and we need to show the current stakeholders that there is a good reason to continue to invest in CAPaBLE.
- Finances development and capacity development of CAPaBLE go with the member countries initiatives and leveraging of funds
- APN could certainly use the links to the WSSD; have general component of sustainable development but covering the global change element and not limit to climate change and water and food security.

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<sup>3</sup> World Summit on Sustainable Development

- Many organizations only see APN as a network for “research” this is not attractive for funds from some governmental bodies. Sustainable Development in that aspect is more attractive. CAPaBLE – for Scientific Capacity Building for SUSTAINABLE DEVELOPMENT. APN – Asia-Pacific Network for Global Change Research. Wording should be perfected to suit the donor (for example, poverty alleviation if that is pertinent).
  - General lack of understanding that science brings quality in the policy generation.
  - Does “sustainable development” need to be defined?

**Item 10:**

Chairperson’s Summary: Present document

**Item 11:**

The 2<sup>nd</sup> CSC Meeting (date and mode of operation; i.e. web/tele/conventional?) has to be decided. General consensus is that contact will be by e-mail initially until the documents cited in the present summary have been prepared. Schedule should be timely and strategic, perhaps back to back with the 11<sup>th</sup> Steering Committee Meeting in April, 2005. As Chairperson, Dr. Matthews thanked the Committee for their time and concerted efforts in ensuring the effective implementation and the very promising successful outputs of the CAPaBLE Programme. More importantly, the CSC was thanked for ensuring that effective mechanisms would be put into place in order for CAPaBLE to become an integral part of the APN.

## CAPaBLE Standing Committee: Terms of Reference (Draft)

1. **Scientific Capacity Building and Enhancement for Sustainable Development: CAPaBLE** is a Programme of the Asia Pacific Network for Global Change Research (APN) with the objectives of building and enhancing scientific capacity for sustainable development in developing countries of the region.
2. The Programme is managed by the APN Secretariat. The CAPaBLE Standing Committee (CSC) is responsible to the APN Steering Committee for both the oversight of the processes related to the operation of the CAPaBLE Programme and the development of strategies for its development and future. A schematic diagram showing how the CSC fits under the structure of the APN is provided in **Figure 1**.
3. The CSC will meet primarily via e-mail communication as appropriate.
4. The membership of the CSC will consist of:
  - Three Ex-officio members of APN's Steering Committee (2 Scientific Planning Group Co-chairs; Director of APN's Secretariat);
  - Two Experts in the field of science capacity building; at least one of whom is a member with strong links to the International Programmes (e.g. UNESCO, ICSU, WCRP, IGBP, IHDP, DIVERSITAS) and from regional programmes that are involved in capacity building activities to maintain alignment, connection and continuity but to avoid duplication; and
  - One donor representative (1).
5. The CSC will:

### A. PROGRAMME

- (1) Ensure that CAPaBLE operates and develops in accordance with the **Objectives of the APN vis-à-vis**:
  - Fostering global change research;
  - Promoting developing-country scientists participation;
  - Science-policy interfacing;
  - Specific objectives of CAPaBLE; and
  - Directives of the Intergovernmental meeting and/or the APN Steering Committee.
- (2) Ensure that CSC deliberations and actions are **transparent and communicated** widely, especially to the APN Steering Committee and the Intergovernmental Meeting.
- (3) **Establish and review the procedures** of the CAPaBLE Programme related to:
  - Call(s) for Proposals for funding through the Programme;
  - The selection of proposals for funding including the disciplinary areas of research and regional focus that reflect the priorities established by the IGM;
  - The review of overall performance of the projects;
  - Ensuring the dissemination of materials generated; and
  - Developing guidelines to focus activities around current and developing themes in global change.

- (4) **Identify contact point persons**<sup>4</sup> who will:
- Act as a link between a specific CAPaBLE project and the CSC providing feedback to the CSC;
  - Assist APN recipients of CAPaBLE support to achieve their objectives; and
  - Provide advice and mentoring to the Project.
- (5) Establish **effective mechanisms for the communication** of activities and outcomes of the CAPaBLE Programme to all members and stakeholders.

## **B. STRATEGY**

- (1) Assist with the development of strategies for the growth of investment in APN's capacity building activities and ensure not only continuity of the CAPaBLE Programme but that capacity building is imbedded as a core activity of APN.

This will include:

- (a) Developing a strategy for the transition from CAPaBLE Phase I (Climate Change) to Phase II (Water and Food security), while continuing to address the general global change issues identified by the APN.
- (b) Developing a strategy for building the **financial support, diversity, continuity and reporting** for the Program including:
- More inclusive financial participation from across the members nations
  - Higher profile of CAPaBLE within members nations (government) and appreciation of the value of capacity development
  - Engagement with alternative funding sources.
- (2) Through its membership, the CSC will use its networks to **create linkages** into the activities of a range of International agencies (e.g. UNESCO, IOC, ICSU, IPCC) and Programmes (e.g. WCRP, IGBP, IHDP, DIVERSITAS, START) involved in global change research and capacity building activities so that APN's work aligns and complements the works of the other agencies but also provides for the continued development and integration of those individuals and groups supported by APN.
- (3) Develop a conceptual framework of the **Science-Policy Interface**, explicitly identifying the role of APN and CAPaBLE and develop methodologies for enhancing the process and promoting the incorporation these methodologies into research activities.

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<sup>4</sup> A contact point person will normally be a senior scientist from the country in which the Project is being performed who will by virtue of his/her experience be available to the Project members as a source of advice and as a formal contact with the CAPaBLE Standing Committee.

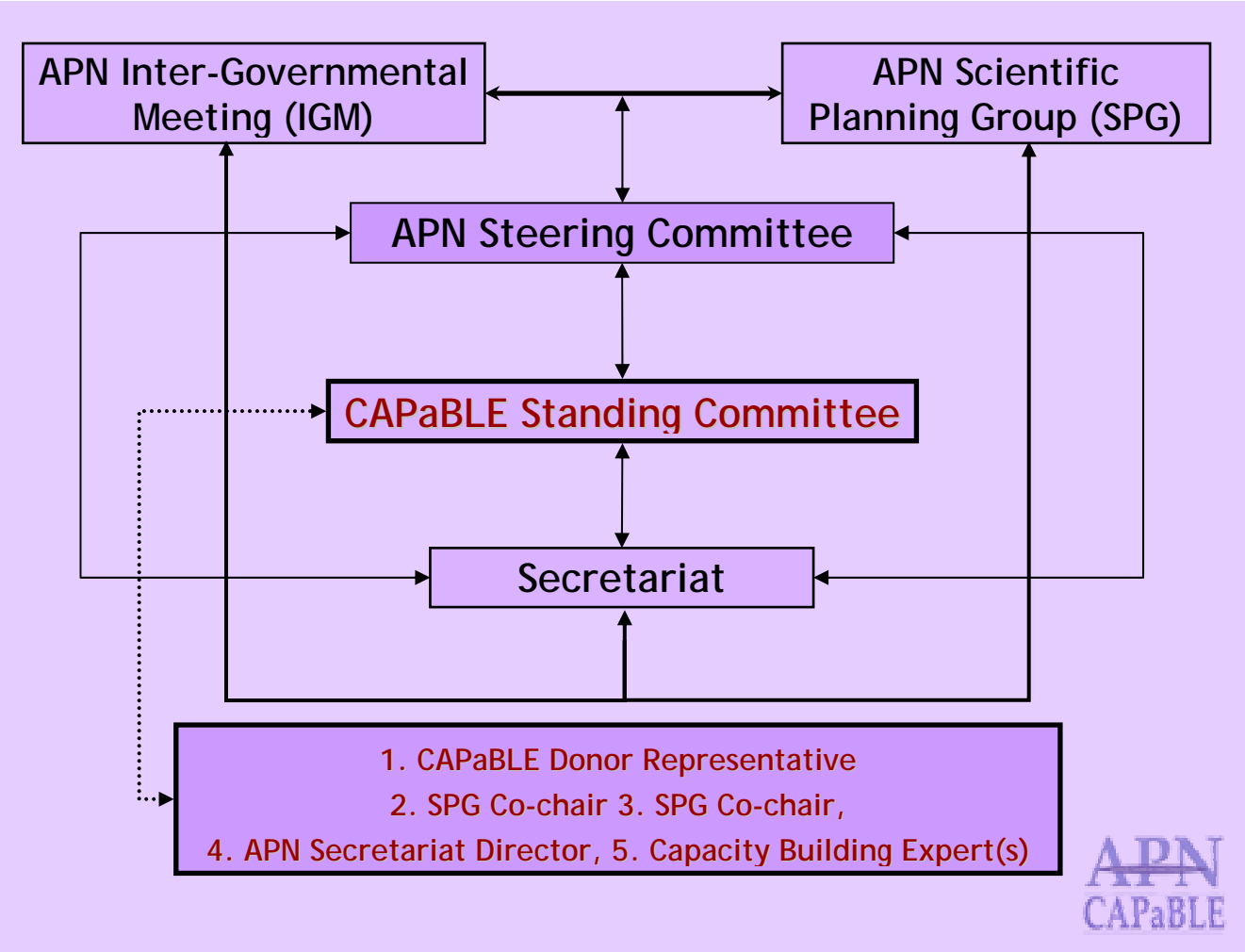


Figure 1. Schematic of CAPaBLE Standing Committee Position in the APN



## Framework of the APN

The "Framework of the APN" (hereinafter referred to as "Framework") functions as the governing document for the APN. It is the culmination of extensive discussions that began during planning workshops, in the early 1990s, and continued until its adoption, at the 7<sup>th</sup> IGM in Manila, Philippines, in 2002. Minor revisions were made at the 9<sup>th</sup> IGM in Canberra, Australia, 2004 to reflect the shift of the Secretariat from AIRIES to IGES. Its legitimacy arises from its adoption by the 7<sup>th</sup> IGM, the APN's inter-governmental decision-making body.

The Second Strategic Plan (hereinafter referred to as 2SP) recommends that the APN will empower a committee to propose changes to the Framework for approval at the 11<sup>th</sup> IGM. The 2SP suggests amendments to clauses concerning the Mission, Goals and Activities, Organs, IGM, SPG, Steering Committee and Secretariat (specific details are outlined below). However, it should be noted that the evaluation report also states, based on the current Framework, that APN's present position, as a non-legal entity, is perhaps the most realistic, flexible and practical way to proceed over the next few years. Although in the future, it may be deemed advantageous to seek formal status as an international organisation.

Suggested timeline:

April 14, 2005:

- The 10<sup>th</sup> IGM empowers a committee to propose changes to the Framework. This committee will function under the umbrella of the Steering Committee.

May-June 2005:

- The Steering Committee will set up an Ad-hoc Committee to draft changes to the Framework document. The newly formed committee will consist of five to six members who will be selected based on their experience and the regional balance of membership. Furthermore, one member will be selected from the resources development committee to ensure coordination between the two committees. In order to be both economical and environmentally friendly, meetings will be held electronically.

June-August 2005:

- The Ad-hoc Committee will prepare a questionnaire to collect comments and suggestions from member countries and then summarise points for discussion.

September-October 2005:

- The Ad-hoc Committee will interact and draft a set of revisions.

November-December 2005:

- The Ad-hoc Committee will submit the draft revisions to the Steering Committee.

January 2006:

- Draft revisions will be circulated to member countries for their comments.

March 2006:

- Final draft will be submitted to the 11<sup>th</sup> IGM for approval.

Responsible officers at the Secretariat: Programme Manager (Communications and Development) and the Secretariat Director.

The 2SP includes suggestions for possible revisions to the Framework of the APN. It should be noted, however, that suggestions are not be limited to the outlined points only. The following points are to be considered:

- The APN empowers a committee to propose changes to the Framework Document for approval at the 11<sup>th</sup> IGM/SPG.

- Revisions made to the Mission should be noted accordingly. Also, "Core Strategies" and "Vision" were introduced; therefore, this clause should be revised accordingly.
- Revisions were made to the Goals; therefore, this clause should be revised accordingly.
- Revisions were made to the activities; therefore, this clause should be revised accordingly.
- The APN must find ways to strengthen member governments' sense of partnership and ownership, including increased efforts to determine their policy needs and priorities relating to global change.
- The roles of each organ within the Framework should be reviewed.
- The role of the "Small Group," which was implemented to pre-process proposals, should be clearly defined.
- The APN must increase on-going communications between national Focal Points, SPG members, Liaison Officers and the Secretariat. It must also strengthen the role of the IGM, to develop a more interactive relationship with national Focal Points, and to strengthen the role of national Focal Points within the APN and the global change research community (science and policy-making). Revisions to the Framework Document should be made accordingly.
- The APN should consider reforming the Steering Committee to enhance its ability to provide guidance to the APN in the months between IGM sessions. Revisions should be made according to the suggested reform.
- The APN should consider reforming the Secretariat. Revisions should be considered accordingly.

A Resources Development Committee, which would fall under the umbrella of the Steering Committee, should be established. Revisions should be considered according to the outcome of discussion on the committee.

## Resources Development

Report of a meeting of the *Ad Hoc* Resources Development Committee held on Tuesday 12<sup>th</sup> April 2005, Kobe

The *Ad Hoc* Resources Development Committee (*Ad Hoc* RDC) met to discuss the issue of the development of APN's future resources. Delegates from the following member countries participated in the *Ad Hoc* RDC: Australia, China, Indonesia, Japan, Malaysia, ROK and Thailand (and an observer from NSF). The *Ad Hoc* RDC recognised a major challenge facing the APN was the restricted funding base of the organisation and that strenuous efforts were needed to find new sources of financial support.

The *Ad Hoc* RDC recalled that the APN was established as an inter-governmental body charged with distributing funds provided by the Japanese and USA Governments. The 10<sup>th</sup> anniversary of its foundation is an appropriate time for it to examine how it can diversify the sources of funds it needs to expand its programmes and its relevance to the nations in the Asia-Pacific region. The *Ad Hoc* RDC noted that the organisation needs to develop the capacity to identify research projects and seek funding, in addition to its role in the distribution of research funds.

The *Ad Hoc* RDC recommends the establishment of a formal Resources Development Committee (RDC), to report to the Steering Committee, charged with developing APN's funding base. It recommends the RDC should consist of 5 or 6 members, being large enough to share its workload but not so large as to be unworkable. It considered the issue of who should chair the RDC and recommends that a Chair be appointed by the Steering Committee. The *Ad Hoc* RDC expected that the task facing the RDC, and particularly its Chair, would be very onerous requiring a high level of drive, energy and commitment to the aims and future of APN.

In considering how the RDC might approach its task the *Ad Hoc* RDC considered that there were at least three major areas in which the RDC would have to work.

1. The RDC would have to identify what value APN provides to a project that would not be provided by one, or more than one country working together. In other words, the RDC would have to define and clearly articulate the 'product' that APN is able to offer investors. To be successful the APN had to be seen to be offering a research capability that is clearly distinct and different from 'products' offered by other global change organisations. This was considered to be a key – if not *the* key - requirement for obtaining funds.
2. The RDC would need to know from APN's member countries what priority projects those countries would wish to pursue, with a view to obtaining earmarked funds to support those projects. It may need to consider hitherto novel ways of building funding packages perhaps utilising matching funds from the country or countries involved, and the APN.
3. The RDC would have to build partnerships and alliances with political bodies in the region (e.g. ASEAN, APEC) in order for those bodies to be able to support APN's activities to obtain funds from international funding agencies such as the GEF, EU etc. Partnerships with other global change bodies, such as IGBP, IHDP, and DIVERSITAS would strengthen the RDC's ability to obtain funds from major international funding bodies.

The issues for future discussion listed in the meeting document IGM/10/05-03 and SPG/10/05-03 were considered a useful initial agenda for the RDC over the coming months.


On the matter of initial membership the *Ad Hoc* RDC recommends that the Steering Committee invites nominations from those countries which attended the meeting, and in addition approaches such other individuals it thinks are well-placed to serve the RDC's objectives.

## **Presentation**

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

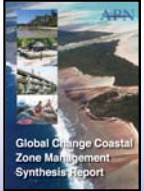
**10th IGM/SPG**  
Kobe, Japan  
12-14 April 2005

**APN Global Change Coastal Zone Management Synthesis**  
Professor Nick Harvey



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

**8th IGM** *Decision on coastal synthesis*



**AIMS**

- Evaluate achievements of APN coastal projects
- Review current coastal issues and research
- Identify future research direction for the region
- Report results to the APN to assist future policy

**OUTPUTS**

1. Synthesis report for 10th IGM, 2005
2. Scientific book on research directions

**APN Scientific Book**  
to be published by Springer  
2006

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

**Output 1 - CONTENTS**

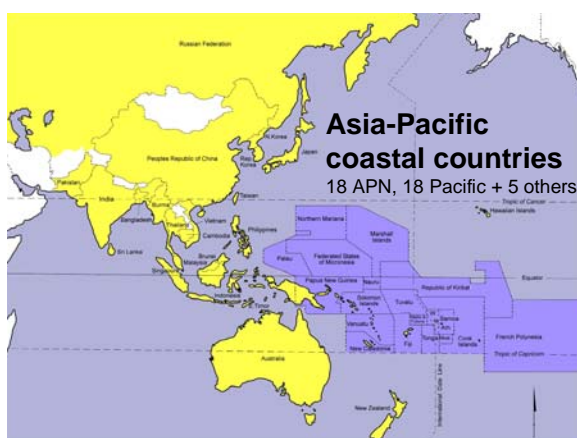
1. Introduction
2. Overview A-P coastal zone
3. Impacts of APN coastal projects
4. Global change issues for A-P
5. Priorities for the future



**Global Change Coastal Zone Management Synthesis Report**

**Asia-Pacific coastal countries**

<b>APN Countries (18)</b>	<b>Pacific (18)</b>	<b>Non-APN Asia (5)</b>
Australia	American Samoa	Burma
Bangladesh	Cook Islands	Brunei
Cambodia	French Polynesia	East Timor
China	FSM	North Korea
Fiji	Kiribati	Singapore
India	Marshall Islands	
Indonesia	Nauru	
Japan	New Caledonia	
Malaysia	Northern Mariana	
New Zealand	Niue	
Pakistan	Palau	
Philippines	Papua New Guinea	
Republic of Korea	Tonga	
Russian Federation	Tuvalu	
Sri Lanka	Solomon Islands	
Thailand	Vanuatu	
USA (Hawaii only)	Wallis and Fortuna	
Viet Nam	Western Samoa	



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

**Coastal projects**

- 20 coastal projects have been sponsored from 1998 to 2004
- 11 of these have coastal issues as the core
- 9 have the coast as a cross-cutting issue
- APN has provided a total funding of around US\$ 750,000
- These projects have produced good outcomes
- Three projects are identified as 'best practice'

## APN Coastal projects

Table 1. APN coastal zone and inland water projects

APN Project Reference Number	Project Leader	Title	Number of Participating Countries	Regional Focus	Funding (USD)	Major Outputs
1998-02	Mark ENGLISH/John JOLLEY	Vulnerability Assessment of Major Wetlands in the Asia-Pacific Region Toward an Integrated Regional Model of River Basin Systems in the Coastal Zones of Southeast Asia	3	Asia Pacific	50,000	Published project report
1998-03	John LUNDBERGAN	Workshop on Water and Human Security for Asia	15	Asia	30,000	Twenty-eight scholars from fifteen countries attended the workshop, and fifteen papers were presented over three days
1998-11	Katharine ROBERT	Planning Workshop - Marine and Coastal Zone Studies in the Asia-Pacific Region	9	Asia-Pacific	20,000	Ecological baseline program
1999-14	Sherry KROEMER	LCRZ Open System Meeting	3	East Asia	10,275	SEASL Coastal Zone Assessment completed during Workshop SEASL coastal workshop led to the East Asia Baseline Assessment and synthesis in 2001 (in APN support)
2000-06	Nick HARVEY	International Thematic Discussion Workshop 2000 - Ocean Ecosystem Issues in the Coastal Zone	4	Asia-Pacific	10,000	Developed a network of young scientists in developing regions
2000-07	Jenika BURNASIRE	Training Workshop for Capacity Building and Networking in the Area of the Environmental Impact Assessment and Ocean Resource Management including Thematic Discussion Aspects in the Coastal Systems of South Asia	11	South Asia	21,500	Capacity building in the professional field, using both LCRZ models and community models APN project allowed developing countries to undertake coastal studies in a more systematic and sustainable manner Networking between leading research institutions and universities Follow up proposed regional funding (APN 2002-05-Banquet)
2000-09	Neha SERRA	APN/UNEP/IOC/ICZ Joint Conference on Coastal Impacts of Climate Change and Adaptation	20	Asia-Pacific	70,000	Open response for civil society and policy makers Proceedings published Results submitted to the Global Freshwater Workshop coordinated by a global coalition of the impacts of climate change and sea level rise
2000-11	Nick HARVEY	Recent Sea Level Change and Coastal Management Implications for Oceania	7	Oceania	84,800	Capacity building program through field training of coastal researchers in the region Provided new scientific data on sea level change Workshop proceedings Coordination of selected regional coastal researchers with professional training training in integrated coastal management

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2001-07	Helen NALAGA	Workshop on the Causes and Consequences of Climate-Related Changes in Inland Freshwater Availability in East Asia	6	East Asia	20,000	Project identified research gaps and potential new programs Present status of CLREIC/ENIC projects of each participating country are well documented
2001-11	Joe BANNETT Mark BRISSE	Biogeographic Perspectives on Resilience to Climate Variability in Pacific Island Countries	11	Pacific	40,800	Established a network of social scientists, climate change researchers, and climate change policy officers in the region Identified future research and policy needs Produced a book of abstracts and short papers First ever website budget contribution in South Asia
2001-20	Jenika BURNASIRE	An Assessment of National Endowment and Climate Factors in the Coastal Zone of South Asia and their Relationship to Human Activities	9	South Asia	40,000	Project strengthened the network of researchers and institutions involved in studies related to the research, identification and impacts of erosion and sediment fluxes
2002-03			7		13,000	Proceedings of regional workshop
2002-11	Joe BRISSE	Asian Support for Experiments on Adaptation of Asia and Pacific to Global Change in the 21st Pacific Science Congress	9	Asia-Pacific	30,000	Published Proceedings and preparation for further adaptation studies in the Asia-Pacific region
2002-26	Nick HARVEY	Asia Island Change and Linkages to Sea Level Variations in Oceania	6	Oceania	22,900	Published APN Asia Monitoring Workshop Proceedings Established a Pacific Asia Coastal Monitoring Analysis Network (PACMAN) Completed an 'in progress' geo-referenced data island baseline survey Completed two PACMAN activities to improve data island baseline

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## APN Coastal projects

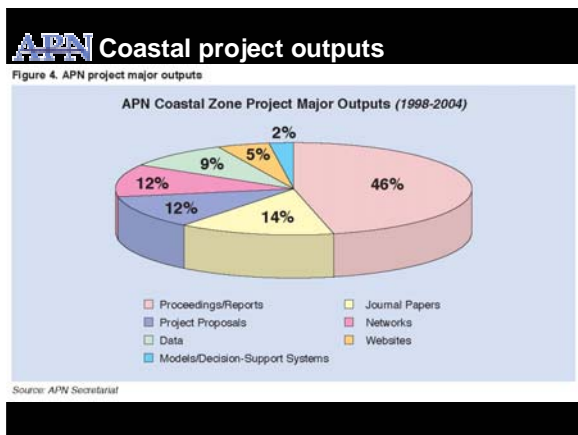
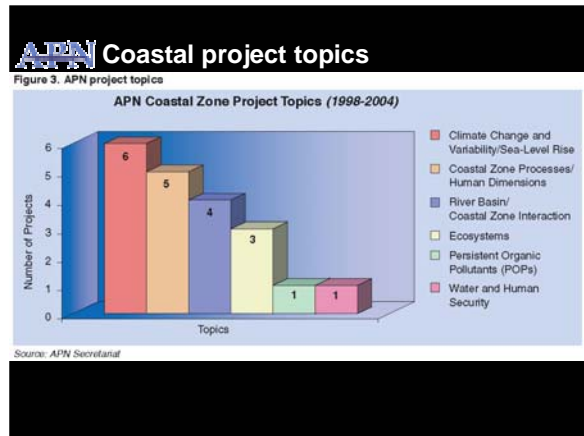
Table 1. APN coastal zone and inland water projects

APN Project Reference Number	Project Leader	Title	Number of Participating Countries	Regional Focus	Funding (USD)	Major Outputs
2002-27	Elaine WHEELER DOMINIQUE	PAIETRA Network for Collaborative Research on the Ecology of Coastal Change in Inland Landscapes of the Tropical Pacific	9	Oceania	45,000	Certificate of Participation awarded to members Project progress feature on PAIETRA website www.inland.org.au/online
2004-06 (2002*)	Changping CHEN	The Mega-Cities of Asia: A Conceptual Model and its Application to the Coastal Zone Vulnerability	12	Asia	15,000	Website for scientists and policy makers www.megacities.asia.org/online Database printing database Build capacity website
2005-13	Zuhir AKSEL Charles KENY	Capacity Development Training for Monitoring of PDVs in the East Asian Hydrograph	10	East Asia	41,000	Knowledge diffusion to scientists and policy makers Capacity-building policy workshop paper and/or development by the United Nations University (UNU)
2005-15	Alan JAMORON	Travel support for Asian Science Students to attend the East Asia Open System Conference	10	Asia	12,000	Conference website (http://openstc.whoi.edu/2005.html)
2004-18 (2002*)	Charles R. KATZNER	Climate Variability and Human Activities in Relation to Southeast Asian Land Use Interactions and their Implications for Coastal Zone Management	3	East Asia	15,000	Project website will contain databases, lists of relevant references and a description of project related global change research activities (http://www.cack.asia/online/updates.htm) Monograph is being planned for publication

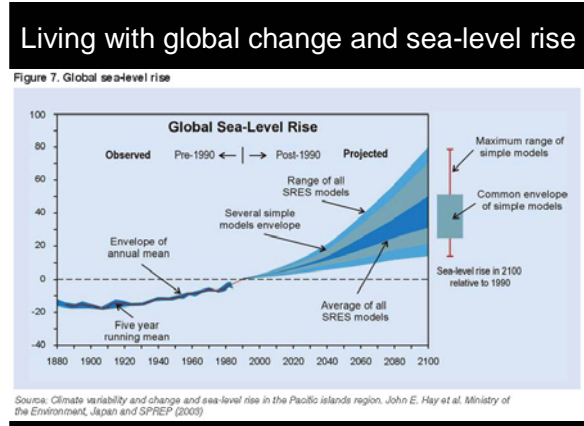
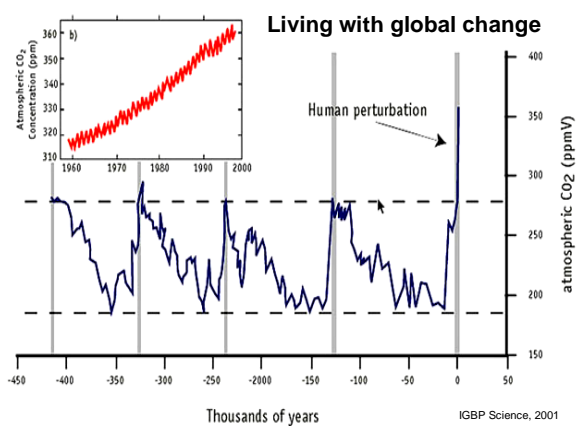
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2002-06			7		31,815	Project grantee list on INSITRA website <a href="http://www.insitra.net/insitra/">www.insitra.net/insitra/</a>
2004-06-0001*	Zhongren CHEN	The Mega Cities of Asia: A Conceptual Model and an Application to Recent Data on Vulnerability	12	Asia	39,000	Website for scientists and policy makers <a href="http://www.megacities.asia.asia/">www.megacities.asia.asia/</a> Workshop creating database Field capacity networks Knowledge database for scientists and policy makers
2003-10	Zafar AZEEL (Sri Lanka KNO)	Capacity Development Training for Monitoring of PCBs in the East Asian Hydrophere	10	East Asia	41,000	Comprehensive project overview paper under development by the United Nations University (UNU) UNU website containing abstracts, presentations and summary of the workshop - <a href="http://baseline.bgu.ac.il/Workshop/Workshop2003-programme.htm">http://baseline.bgu.ac.il/Workshop/Workshop2003-programme.htm</a> Proceedings (book form) containing papers and abstracts of the workshop presentations and a summary report Database website - <a href="http://inggis.kit.edu/asia/2003.html">http://inggis.kit.edu/asia/2003.html</a>
2003-19	Mari ZAROVIC	Travel support for Asian Marine Scientists to attend the 1st JCRP Open Science Conference	10	Asia	13,000	Project website with contact information, list of relevant references and a description of project related global change research activities - <a href="http://www.scripps.edu/~mari/zen.htm">http://www.scripps.edu/~mari/zen.htm</a>
2004-08-0001*	Yoshiko K. KATAYAMA	Climate Vulnerability and Resilience Activities in Relation to Nonlinear Asian Land-Use Change Interactions and their Implications for Coastal Zone Management	9	East Asia	15,000	Project website with contact information, list of relevant references and a description of project related global change research activities - <a href="http://www.scripps.edu/~yoshiko/zen.htm">http://www.scripps.edu/~yoshiko/zen.htm</a> Monograph in progress for publication

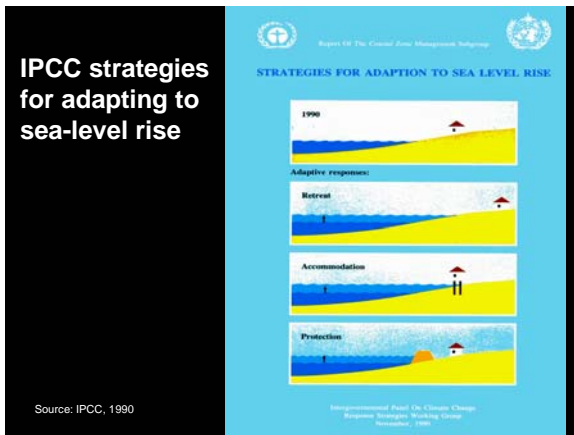
\* APN 2004-08-0001 (Climate Resilience) completed in 2007 and APN 2004-08-0001 (Coastal Zone Management) completed in 2008



- ### APN Coastal projects GOALS
1. Support regional cooperation in global change research
  2. Strengthen interactions between scientists and policy makers
  3. Improve scientific and technical capabilities
  4. Facilitate collection, analysis and exchange of scientific data
  5. Cooperate with other global change networks & organizations
  6. Facilitate development of research infrastructure
- Table 2. Overall project ratings in relation to the APN goals (rank order)
- | Ranking   | Independent Reviewer | Synthesis Workshop Report |
|-----------|----------------------|---------------------------|
| Excellent | Goals 1 and 5        | Goal 1                    |
| Good      | Goal 4               | Goal 3                    |
| Average   | Goals 3 and 6        | Goals 2 and 5             |
| Poor      | Goal 2               | Goals 4 and 6             |







**Coastal resources and sustainability**

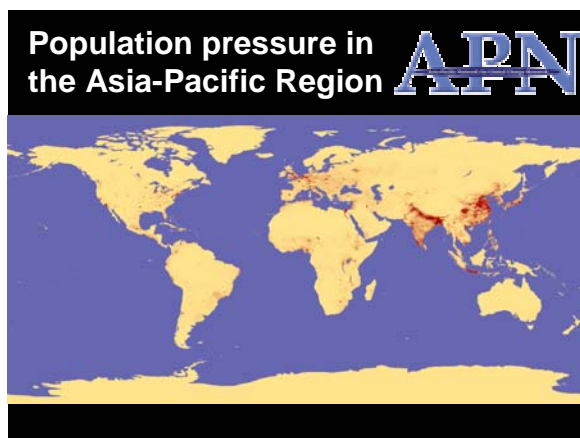
**APN**

- Importance of coral reefs, mangroves and seagrass meadows
- Growing demand for goods and services
- Degradation of coastal ecosystems impacts greater on rural population
- Threats to regional food security

**Catchment-coast interaction**

**APN**

- Globally important rivers (eg Mekong, Red, Brahmaputra-Ganges)
- Environmental pressures related to agriculture and urbanisation
- Issues of dam construction affect water and sediment flow patterns
- Nutrient and pollutant discharges
- Need to better understand processes, mechanisms and management



### **APN** Future urban pressure on coast

**Table 3. Asian megacities in 2015**

Urban conglomeration	Population (millions)
Tokyo, Japan	36.2
Mumbai, India	22.6
Delhi, India	20.9
Dhaka, Bangladesh	17.9
Jakarta, Indonesia	17.5
Calcutta, India	16.8
Karachi, Pakistan	16.2
Shanghai, China	12.7
Metro Manila, Philippines	12.6
Osaka-Kobe, Japan	11.4
Beijing, China	11.1

Source: World Urbanization Prospects: The 2003 Revision. UN Department of Economic and Social Affairs/Population Division

### Pressure on rural coasts **APN**

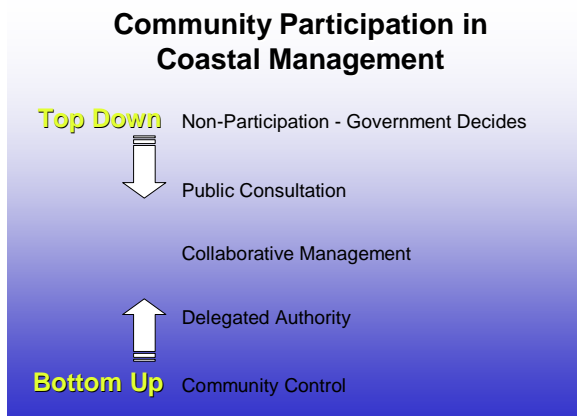
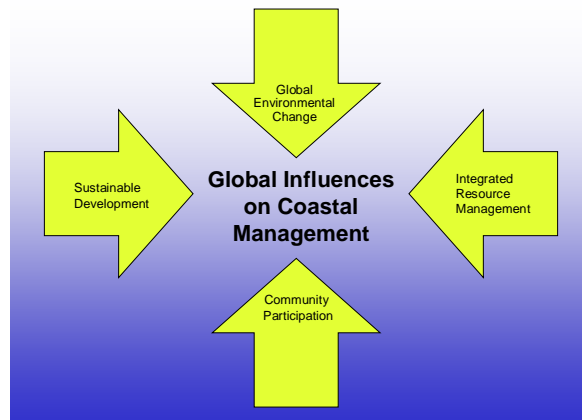
- 1 billion people on A-P rural coasts
- Over-fishing, coastal degradation affect sustainability of fishing and tourism
- Over 80% of global fishers and fish farmers
- 45-62% of global fish production and 68-87% of global aquaculture
- Many rural coastal dwellers live in poverty and vulnerable areas



## Coastal management



- Coastal management influenced by global and local pressures
- Asia-Pacific region characterized by diversity of management practices
- Integrated Coastal Management (ICM) seen as solution to problems
- Barriers to ICM and problems such as loss of community responsibility
- Need to recognize differences between countries

## Integrated Coastal Management

**Definition**

*Integrated coastal (zone) management involves the comprehensive assessment, setting of objectives, planning and management of coastal systems and resources, taking into account traditional, cultural and historical perspectives and conflicting interests and uses; it is a continuous and evolutionary process for achieving sustainable development.*

(World Coast Conference Report, 1994 p.40)

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## Appropriate education

1. Importance of education in adapting to global change
2. Need to focus on positive aspects
3. Global or regional perspective not always useful
4. Need for local examples and also use of appropriate language



## Priorities for action

1. Focus on coastal issues relating to global change in A-P region
2. More effective ways to achieve goals
3. Opportunities for young scientists
4. Linkages with policy development
5. Follow up for funded projects
6. Other donors and governments
7. Strategies for reducing impacts
8. More effective outputs from projects
9. Measures to reduce hazards
10. Materials to empower decisions on coasts



# APN

## OUTPUT 2 - Coastal scientific book

### Outline of book chapters

1. Introduction
2. State of the environment in A-P coastal zone
3. Global change implications for the A-P CZ
4. Approaches to coastal zone management
5. How are catchments (and their management) interacting with A-P CZ ?
6. The history of coasts in the Asia-Pacific region
7. Human response to coastal change
8. Hotspots of urbanization and population growth A-P CZ?
9. Pressures on rural coasts
10. Impacts of pollutants on the A-P CZ?
11. Maintaining coastal ecosystems
12. Conclusions/synthesis/future direction of global change coastal research

# APN

## CONCLUSION

1. APN's coastal projects very successful
2. Some APN goals were met better than others
3. Need for better linkage between science and policy-makers
4. OUTPUT 1 - APN Coastal Synthesis provides useful and readable overview of key issues
5. OUTPUT 2 - an important scientific contribution from APN with research directions for the future



**Global Change Coastal Zone Management Synthesis Report**

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