

ACID DEPOSITION MONITORING NETWORK IN EAST ASIA

The Intergovernmental Meeting

The Fifth Session of the Intergovernmental Meeting (IG5) was held in Pattaya, Thailand on 27-28 November 2003. The main objectives of the meeting are: to make decision on further financial arrangement for EANET; to discuss the future development of EANET; to adopt the outcomes of the Third Session of the Scientific Advisory Committee (SAC3); and to consider the Work Program and Budget in 2004.

Representatives of Cambodia, China, Indonesia, Japan, Lao PDR, Malaysia, Mongolia, Philippines, Republic of Korea, Russia, Thailand and Viet Nam participated in the Session. A representative from Myanmar and some representatives

from Pollution Control Department of Thailand attended as observers. Experts of the international organizations namely: Asian Development Bank (ADB), United Nations Economic Commission for Europe (UN/ECE), United Nations University/Institute of Advanced Studies (UNU/IAS), United Nations Environmental Programme, Regional Resource Centre for Asia and the Pacific (UNEP RRC.AP), as well as the Chairperson of the SAC3 attended the Session.

The meeting was opened by Ms. Leong Chow Peng, Malaysia, Chair of the Fourth Session of the Intergovernmental Meeting. Mr. Surendra Shrestha, Director of UNEP RRC.AP delivered the

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opening address on behalf of the Secretariat. Dr. Supat Wangwongwatana from Thailand was elected as Chairperson, Ms. Liana Bratasida from Indonesia as Vice-Chairperson, and Mr. Shinichi Arai from Japan as Rapporteur.

Meeting Highlights

1. The participants reached the consensus on the Decision on the Further Financial Arrangement for EANET and endorsed the Memorandum on More Efficient and Transparent Activities of the Network Center for EANET.
2. The IG5 endorsed the SAC3 Report and in particular the recommendation of SAC3 in principle including the Detailed Mechanism of Article 4 of the Procedures on Data and Information Disclosure for EANET.
3. The Secretariat and the Network Center were requested to develop: a paper to disseminate major outcomes of EANET activities; a questionnaire to determine the level of public awareness in the participating countries; a brief information paper on EANET activities to be provided and used by countries at important meetings at global, regional, sub-regional and national levels; and a paper to brief high level policy makers. The Network Center and the Secretariat were requested to consider if the EANET website could be separated from ADORC website with links from the present one.
4. Regarding future development, participating countries supported the proposal to establish a new Working Group. Effort should be continued and further strengthened to explore support by relevant international organizations, especially the Asian Development Bank (ADB) and the World Bank.
5. The session adopted the Work Program and Budget in 2004 for EANET subject to the modification.
6. IG5 nominated, by consensus, Dr. Supat Wangwongwatana, Thailand, as the senior representative to the Policy Advisory Committee of UNEP RRC.AP.



The Fifth Session of the Intergovernmental Meeting, Pattaya, Thailand, 27-28 November 2003

Consultation on Further Financial Arrangement for EANET

In line with the decision at the Third Session of the Intergovernmental Meeting on EANET (IG3) the Working Group on Further Financial Arrangement for EANET (hereinafter referred to as the "Working Group"), is established, based on the Article 6.2 of the Rules of Procedures of EANET (EANET/IG 3/12).

The Working Group is under the guidance of the Intergovernmental Meeting. In every meeting of the Working Group, the members should be nominated by the National Focal Points of the participating countries. As stated in the Terms of Reference (TOR) of the Working Group, its main task is to prepare the Report on Further Financial Arrangement for EANET to be submitted and considered by the Fifth Session of the Intergovernmental Meeting (IG5). Three series of meetings were held in order to complete the task assigned to the Working Group.

The First Session of the Working Group on Further Financial Arrangement for EANET

The Working Group on Further Financial Arrangement for EANET held its First Session in Pathumthani, Thailand, on 8-9 July 2002. The session adopted the TOR of the Working Group with specific tasks and scopes: consider appropriate size of financial resources required for EANET activities, based on the review of the present activities; consider various options for securing financial resources required for EANET activities on a long term basis; prepare a preliminary paper describing various options to be submitted to and considered by the Fourth Session of the Intergovernmental Meeting on EANET (IG4);

and prepare the Report on Further Financial Arrangement for EANET to be submitted to and considered by IG5.

The Second Session of the Working Group on Further Financial Arrangement for EANET

The Working Group held its Second Session in Pathumthani, Thailand, on 11-12 August 2003. Representatives of Cambodia, China, Indonesia, Japan, Lao PDR, Malaysia, Mongolia, Philippines, Thailand, and Viet Nam participated in the second session. The representatives of the Secretariat and the Network Center, as well as experts from international organizations, namely: United Nations University/Institute of Advanced Studies (UNU/IAS) and the United Nations Environment Programme (UNEP) also attended the meeting.

The Session was opened by the Secretariat. Mr. Surendra Shrestha, Director, UNEP Regional Resource Centre for Asia and the Pacific (RRC.AP) delivered the opening remarks on behalf of the Secretariat. The remarks included: the trends on environment and sustainable development; the need for a quantitative base for sound decision making; the importance of EANET for prevention of air pollution; and the progress of the Secretariat's discussion with participating countries. He requested the Working Group to look seriously at financial sustainability of the Network.

The main objective of the meeting was to discuss the draft Report on Further Financial Arrangement for EANET. This report, prior to the meeting, was distributed to all participating countries for comment. The expenses of the Secretariat and the Network Center as well

as the expenses on national monitoring activities were also presented during the session as requested by IG4 held in Pathumthani, Thailand, on 28-29 November 2002. Likewise, the Secretariat and the Network Center presented the progress of EANET since IG4.

The Third Session of the Working Group on Further Financial Arrangement for EANET

Two months after the Second Session of the Working Group on Further Financial Arrangement for EANET (WG2), the Third Session of the Working Group on Further Financial Arrangement for EANET (WG3) was held in the same venue as WG2 on 9-10 October 2003. Representatives from the EANET participating countries, except China, attended the session as well as experts from UNU/IAS and UNEP.

After receiving the comments from the participating countries on the Report on Further Financial Arrangement (EANET/WG 3/4) that was discussed and as a result of WG2, WG3 again discussed and further elaborated the report. Major discussions on the item agenda on further financial arrangement included: voluntary sharing options, stepwise approach, voluntary nature of contribution and medium-term plan.

The session agreed to submit the revised draft report (EANET/WG 3/4 rev.1) with modifications suggested by the participants to IG5 for its consideration. The Secretariat made a presentation on the proposed date, venue, agenda items, program and other arrangements for IG5 and SAC3. Regarding other issues, the Secretariat mentioned a possibility to send a request for a regional assistance project to ADB.



The Second Session of the Working Group on Further Financial Arrangement for EANET, Pathumthani, Thailand, 11-12 August 2003



The Third Session of the Working Group on Further Financial Arrangement for EANET, Pathumthani, Thailand, 9-10 October 2003

The Senior Technical Managers Meet for Progress

It is important for technical managers to meet and exchange information every year in order to ensure the data quality and discuss other technical issues of EANET. Thus, the Fourth Senior Technical Managers' Meeting (STM4) was held from 1-3 October 2003 in Niigata, Japan. The main objectives of STM4 were: to report the progress on scientific and technical matters related to EANET since STM3 in 2002; to consider revisions of the national monitoring plans of the participating countries; to consider the monitoring data and results of the inter-laboratory comparison projects in 2002; and to discuss other technical issues to be considered further at SAC3. It was expected that this meeting had a function as a preparatory meeting for SAC3 that was held one month thereafter.

The three-day meeting was attended by 70 participants including senior technical managers from 12 participating countries and from Myanmar as an observer, experts from universities, research institutes, Japanese local governments and other relevant bodies. It was informative and useful for the participating countries to exchange information and have discussions about the national monitoring plans and other technical issues among senior technical managers who are responsible for technical issues in each country.

Based on the agenda, after the election of officers and adoption of the agenda, the meeting started with the review of the scientific and technical activities of EANET since the Third Senior Technical Managers' Meeting (STM3). Then, the Network Center presented the overview of the national monitoring plans of the participating countries including their revisions. After the overview, the EANET activities of each participating country were presented by its representative.

During the second day of the meeting, the Network Center has presented a preliminary Draft Data Report on Acid Deposition Monitoring in 2002 and there was also a discussion on detailed mechanism for data disclosure on the basis of proposal by the Network Center.

Furthermore, there was a presentation of the ongoing research activities on acid deposition in collaboration with existing initiatives on developing emission inventories and numerical modeling. The participants also visited the Maki Monitoring Station and Sakata lagoon.



The Third Session of SAC, Pattaya, Thailand, 24-26 November 2003

Towards Assessment - The Scientific Advisory Committee Initiative

The Third Session of the Scientific Advisory Committee

The Scientific Advisory Committee on the Acid Deposition Monitoring Network in East Asia (EANET) (hereinafter referred to as SAC) held the Third Session in Pattaya, Thailand, from 24-26 November 2003. The Session was organized by the Secretariat and the Network Center for EANET. The Session was attended by the members of SAC and their alternates nominated by the participating countries: Cambodia, China, Indonesia, Japan, Lao PDR, Malaysia, Mongolia, the Philippines, Republic of Korea, Russia, Thailand and Viet Nam. It was also attended by the representative from Myanmar as observer, as well as experts from the United Nations Economic Commission for Europe (UN/ECE) representing the Convention on Long-Range Transboundary Air Pollution (CLRTAP), the Chemical Coordinating Center of the Co-operative Programme for Monitoring and Evaluation of the Long Range Transmission of Air Pollutants in Europe (EMEP/NILU), Programme Coordinating Centre of the International Co-operative Programme on Assessment and Monitoring of Air Pollution Effects on Forests (PCC/ICP Forest), and United Nations University/Institute of Advanced Studies (UNU/IAS). Representatives from Pollution Control Department of Thailand and Environmental Research and Training Center also observed the Session.

The agenda of the meeting included: review of the EANET activities since the Second Session of the Scientific Advisory Committee (SAC2) and IG4 from scientific and technical viewpoints; consideration on the revisions of the national monitoring plans of the participating countries; review of the data report on acid deposition monitoring in 2002; review of QA/QC activities in the participating countries; consideration of improvement of monitoring methodologies; consideration of research activities on acid deposition; consideration of the Work Program and Budget for 2004; review of the progress of other international programs on acid deposition; and other issues.

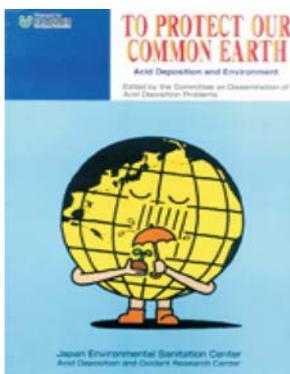
Participants agreed with several proposals on scientific evaluation of EANET activities:

- General paper on EANET activities should be prepared by the Network Center to be submitted for scientific journal by the time of SAC4, after reviewing by SAC members;
- More specific papers for the respective monitoring items could be prepared by leading scientists of the Network Center;
- The first periodic report on the state of acid deposition in East Asia is expected to be prepared by SAC in 2005. The Secretariat and/or the Network Center were invited to present plan for the report to SAC4;
- The scientific workshop on evaluation of state of acid deposition in East Asia was recommended to be organized next year as the first step for initiating preparation of periodic in East Asia;
- It was also suggested that in the future a summary of the periodical assessment report should be prepared for decision makers.

Since 1999, the Interim Network Center/the Network Center has been undertaking joint projects with selected participating countries to develop their own national brochures and/or videotapes on acid deposition. In 2002, the Network Center undertook joint projects with Mongolia to develop brochures, and held in-country workshops in Indonesia in October 2002 and in Viet Nam in January 2003. The new joint projects on developing a brochure with Russia and for holding in-country workshop with Mongolia are undertaken by the Network Center for 2003. The Network Center also has been developing an e-Learning program on acid deposition problems for environment education in collaboration with Institute for Global Environmental Strategies (IGES) since 2002.

The Network Center organized the Third Workshop on Public Awareness for Acid Deposition Problems on 20-21 February 2003 in Niigata, Japan. The Workshop was attended by approximately thirty participants and observers from Cambodia, China, Indonesia, Japan, Lao PDR, Malaysia, Mongolia, Russia, Thailand and Viet Nam. The main objectives of the Workshop were to exchange information and share experiences on public awareness and environmental education in the participating countries, and to discuss how to promote public awareness and environmental education. The Network Center developed the proceedings of this workshop and distributed to NFPs, the participants and other relevant organizations in May 2003.

The Fourth Workshop on Public Awareness on Acid Deposition Problems was held in Niigata, Japan, on 19-20 December 2003. This workshop involved the participation of local citizens and school children together with experts from participating countries of EANET.



EANET Brochure

The Network Center dispatched technical missions to the participating countries to exchange information and experiences, to provide technical advice and to disseminate the latest technical information. The NC missions were sent to China, Philippines, and Viet Nam in January 2003; Republic of Korea in February 2003; Thailand in February/March 2003; Mongolia and Russia in July/August 2003; Indonesia in September 2003; and China and Philippines in January 2004.

The missions visited network monitoring sites and laboratories, and had technical discussions with local experts on acid deposition and exchanged information and experiences on the preparatory and regular-phase activities. These missions were considered very useful for the Network Center in grasping the current and potential capacities of the participating countries and for the participating countries to have detailed technical discussions among various experts from relevant agencies and academies.

On 4-6 September and 6-9 September 2003, the Network Center dispatched technical mission to Lao PDR and Cambodia. Since these two countries are newly participating countries to EANET, the Secretariat joined the technical missions. The objectives of the missions to Lao PDR and Cambodia were: to exchange information and views on institutional and technical arrangements for the activities of EANET in Lao PDR and Cambodia; to exchange information and views on technical cooperation by the Network Center; to know the condition of the wet-only sampler; and to visit the laboratories and candidate monitoring sites for EANET activities.

The Network Center dispatched experts to provide technical support for national training programs on acid deposition monitoring in China (December 2002), Indonesia (February 2003) and Thailand (March 2003). The Network Center also dispatched an expert to China to provide technical support for an annual national workshop on acid deposition monitoring held in March 2003.



Monitoring Site in Cambodia

Brief History of EANET

Background

One of the distinctive features of the acid deposition is the fact that deposition of acidifying substances can occur thousands of kilometers from the original emission sources. Thus, acid deposition has become an international issue.

Four experts meetings were held in East Asia from 1993 to 1997 to discuss the issue of acid deposition. The First Intergovernmental Meeting (IG1) was held in 1998 and agreed to start the preparatory-phase activities of EANET. Ten countries: China, Indonesia, Japan, Malaysia, Mongolia, Philippines, Republic of Korea, Russia, Thailand and Viet Nam joined the preparatory-phase activities from 1998 through 2000. At the Second Session of the Intergovernmental Meeting (IG2) the meeting concluded that the preparatory-phase activities of EANET had been successful. The meeting decided to start the activities on a regular basis from January 2001 based on the “Joint Announcement on the Implementation of EANET” and the “Tentative Design”. It also designated the United Nations Environment Programme (UNEP) as the Secretariat for EANET and the Acid Deposition Oxidant Research Center as the Network Center. The application of Cambodia was approved by IG3 while IG4 considered and approved the application of Lao PDR to participate in EANET. Currently, there are twelve participating countries to EANET.

Objectives

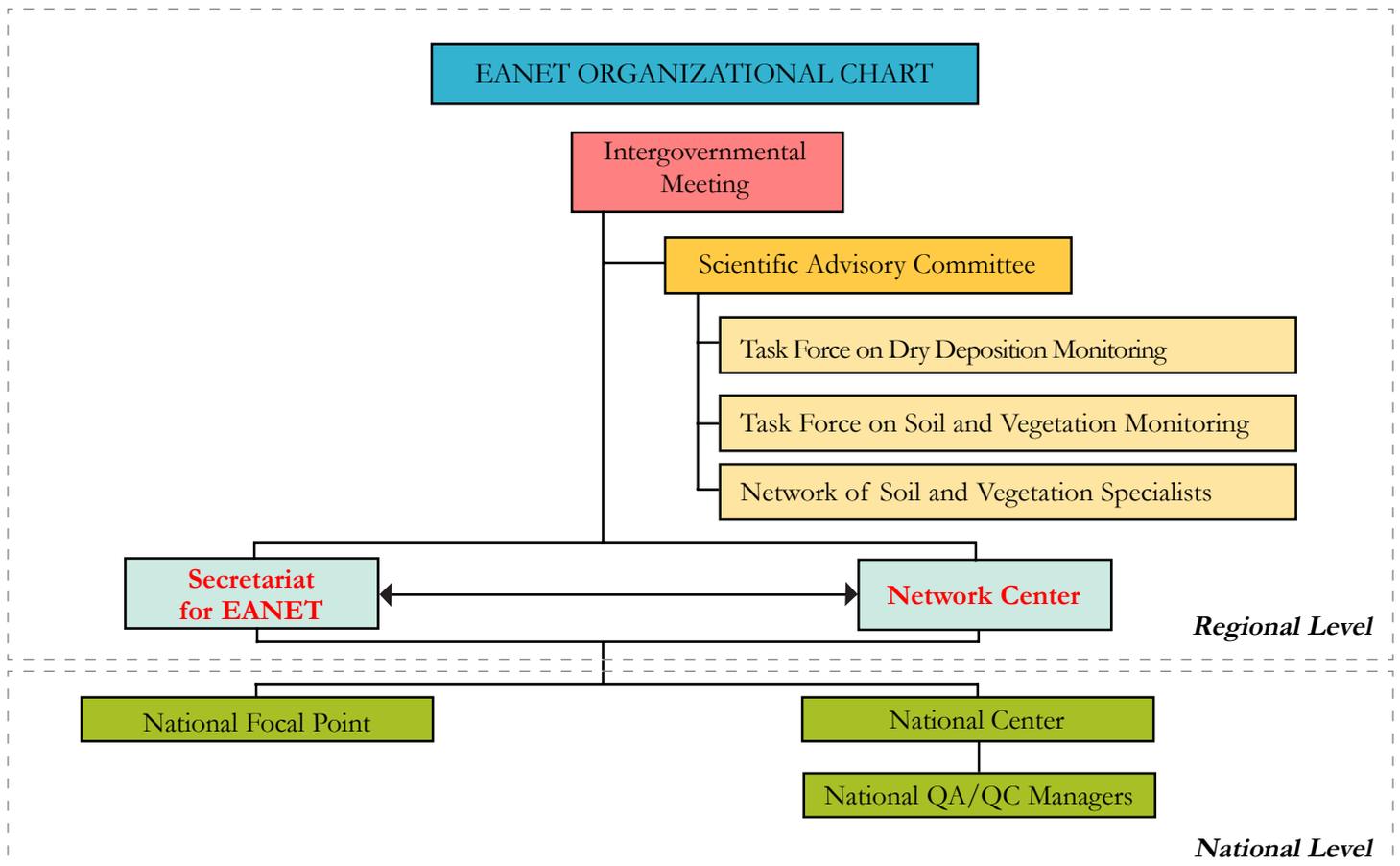
- To create a common understanding of the state of the acid

deposition problems in East Asia.

- To provide useful inputs for decision-making at local, national regional levels aimed at preventing or reducing adverse impacts on the environment caused by acid deposition.
- To contribute to cooperation on the issues related to acid deposition among the participating countries.

Major Activities

- Implementation of acid deposition monitoring by using common methodologies:
 - wet deposition monitoring;
 - dry deposition monitoring;
 - soil and vegetation monitoring; and
 - monitoring on inland aquatic environment.
- Compilation, evaluation, storage and provision of data obtained through the EANET monitoring.
- Promotion of quality assurance/quality control (QA/QC) activities to obtain high quality monitoring data.
- Preparation and publication of data reports.
- Conduct Intergovernmental Meetings, Scientific Advisory Committee Meetings, Working Group Meeting and other related meetings.
- Promotion of research and studies related to acid deposition and public awareness.
- Other activities necessary to achieve the objectives of the Network.



Upcoming Events

No.	Activities	Proposed Date/Venue
1.	The First Session of the Working Group on Future Development of EANET	July or Aug. 2004 UNEP RRC.AP, Thailand
2.	The Fifth Senior Technical Managers' Meeting (STM5)	Sept. or Oct. 2004 Niigata, Japan
3.	The Scientific Workshop on Evaluation of the State of Acid Deposition in East Asia	Sept. or Oct. 2004 Niigata, Japan
4.	The Fifth Workshop on Public Awareness	October 2004 Niigata, Japan
5.	The Fourth Session of the Scientific Advisory Committee (SAC4)	To be decided (participating country)
6.	The Sixth Session of the Intergovernmental Meeting (IG6)	To be decided (participating country)

National Center for EANET of Participating Countries

Cambodia	Department of Pollution Control, Ministry of Environment
China	China National Environmental Monitoring Center
Indonesia	SARPEDAL, Environmental Impact Control Facility
Japan	Acid Deposition and Oxidant Research Center (ADORC)
Lao PDR	Environment Research Institute, Science Technology and Environment Agency
Malaysia	Malaysian Meteorological Service
Mongolia	Central Laboratory of Environmental Monitoring, Ministry of Nature & Environment
Philippines	Environmental Management Bureau, DENR
Republic of Korea	National Institute of Environmental Research
Russia	Institute of Global Climate and Ecology (and Limnological Institute)
Thailand	Pollution Control Department
Vietnam	Environment Research Center, Institute of Meteorology, MONRE

The Secretariat

EANET Secretariat UNEP RRC.AP

c/o Asian Institute of Technology
3rd Floor, Outreach Building
P.O. Box 4, Klongluang, Pathumthani 12120
Thailand
Tel: +66-2-524-5366, 524-6244
Fax: +66-2-516-2125, 524-6233
Web: <http://www.rrcap.unep.org>

The Network Center

Acid Deposition and Oxidant Research Center (ADORC)

1182 Sowa, Niigata 950-2144
Japan
Tel: +81-25-263-0550
Fax: +81-25-263-0566
Web: <http://www.adorc.gr.jp>