

The Fifth Session of the Scientific Advisory Committee  
on Acid Deposition Monitoring Network in East Asia  
1-3 September 2005, Niigata, Japan

## **Overview of the Progress on Development of the Periodic Report on the State of Acid Deposition in East Asia**

### **I. INTRODUCTION**

1. The Third Session of the Scientific Advisory Committee (SAC3) decided to start the preparation of the First Periodic Report on the State of Acid Deposition in East Asia based on the accumulated EANET monitoring data for regular phase. After the discussions at the Fourth Session of the Scientific Advisory Committee (SAC4), it was defined that the first periodic report will be completed at the Sixth Session of the Scientific Advisory Committee (SAC6) in 2006.
2. The Drafting Committee (DC) for the periodic report was established in accordance with the "Procedures to prepare the periodic report on the state of acid deposition in East Asia" (Report of the Session of SAC4, Appendix II) developed and agreed by SAC4. The process of nomination for membership of DC was started at the beginning of December 2004 with the letter of Chair of the Scientific Advisory Committee (SAC) bureau, and it had almost been completed at the beginning of April 2005.

### **II. DRAFTING COMMITTEE MEETING**

3. The First Meeting of DC for the Periodic Report on the State of Acid Deposition in East Asia (PRSAD) was held on 14-15 April, 2005 in Niigata, Japan. The meeting was attended by DC members and some alternatives from 11 participating countries, namely, Cambodia, China, Indonesia, Japan, Lao PDR, Malaysia, Mongolia, Philippines, Republic of Korea, Thailand and Viet Nam. The Secretariat for EANET also took part in the meeting.
4. DC appointed Prof. Muhamad Awang, Chair of SAC bureau, as the Head of DC. The list of DC members is presented in Annex 1.
5. The Network Center (NC) presented draft content of periodic report for consideration by DC. The certain examples of EANET data evaluation and presentation were introduced and provided for participants. DC revised draft Content of PRSAD based on the discussions on the session as presented in Annex 2.
6. DC defined and agreed the list of lead and contributing authors for the corresponding chapters.
7. DC discussed the implementation plan for preparation of PRSAD with major suggestions:
  - Second scientific workshop (SWS2) would be held as a workshop for DC to prepare the preliminary draft of the PRSAD. The lead authors are expected to prepare the presentations on the preliminary drafts of the respective chapters.

- The volume and number of pages of PRSAD will be decided at the next DC meeting, utilizing the EMEP report as a general format.
  - The Secretariat was requested to secure the budget for color printings and linguistic editing of report.
  - National Focal Points (NFPs) are expected to prepare and submit the national assessments to NC. The deadline of the submission of the preliminary drafts on the national assessments will be by the end of July 2005.
8. During the discussion on procedures and outline for SWS2, DC suggested that SWS2 for DC would have three-day duration or more in conjunction with the Fifth Session of the Scientific Advisory Committee (SAC5), and it was decided to be on 29 – 31 August 2005.
  9. Meeting has agreed to establish a website for exchange of texts and opinions among the DC members. Some measures to secure information were proposed to be done by NC.

### **III. FOLLOW-UP ACTIVITY OF DRAFTING COMMITTEE**

10. To share the information on the process of PRSAD preparation the adopted Minutes of DC meeting (Annex 3) were sent to NFPs, SAC members and national centers in April 2005 for their information. The Proceedings of the First DC Meeting were compiled and printed by NC.
11. NC distributed a special CD-ROM with verified initial EANET data from 2001 to 2003 for using by DC members after the meeting. Some additional information was sent as addendum.
12. NC requested NFPs in April 2005 to submit the preliminary draft of country's National Assessment for PRSAD by the end of July 2005 by using the draft Content for National Assessment recommended by DC. NFPs were also asked to support the duty of DC members and contributing authors of PRSAD including to secure the financial support for them for these important works.
13. NC also asked all NFPs, SAC members and other relevant persons to send the references and copies of published materials (in English) to support the work of DC by these publications.
14. SWS2 are held 29–31 August 2005 in Niigata, Japan to discuss the prepared materials of the regional assessment, to overview the outlines of national assessments and to review the process of PRSAD preparation. All DC members and some observers took part at this working seminar. The draft conclusion of SWS2 is supposed to be distributed at SAC5.

The First Meeting of the Drafting Committee for the Periodic Report  
on the State of Acid Deposition in East Asia  
14-15 April 2005, Niigata, Japan

**The Members of the Drafting Committee for the Periodic Report  
on the State of Acid Deposition in East Asia**

SAC4 Bureau

<b>Name</b>	<b>Country</b>	<b>Position</b>
Prof. Muhamad Bin Awang	Malaysia	Professor, Department of Environmental Science, Universiti Putra Malaysia
Prof. Seok-Yeon Cho	Republic of Korea	Professor, Environmental Engineering, Inha University
Dr. Pojanie Khummongkol	Thailand	Associate Professor, Environmental Technology Division, King Mongkut's University of Technology

<b>Name</b>	<b>Country</b>	<b>Position</b>
Mr. Hang Dara	Cambodia	Vice Chief of Air Quality, Noise and Vibration Management Office, Department of Pollution Control, Ministry of Environment
Mr. Wang Ruibin	China	Director, Department of Air Quality Monitoring, China National Environmental Monitoring Center (CNEMC)
Dr. Esrom Hamonangan	Indonesia	Air Quality Laboratory, Environmental Impact Management Facility
Dr. Hajime Akimoto	Japan	Program Director, Atmospheric Composition Research Program, Frontier Research Center for Global Change, Japan Agency for Marine-Earth Science and Technology (JAMSTEC)
Dr. Tomoyuki Hakamata	Japan	Advisor, Hamamatsu Photonics K.K.
Prof. Hiroshi Hara	Japan	Professor, Field Science Center, Faculty of Agriculture, Tokyo University of Agriculture and Technology
Ms. Bounyaseng Sengkhummy	Lao PDR	Techn.Staff, Environment Quality Monitoring Centre, Environment Research Institute, Science Technology and Environment Agency (STEA)
Prof. Muhamad Bin Awang	Malaysia	Professor, Department of Environmental Science, Universiti Putra Malaysia
Ms. Bulgan Tumendemberel	Mongolia	Chief Engineer, Central Laboratory of Environmental Monitoring
Dr. Apolonio Malabanan Ocampo	Philippines	University Researcher III, Institute of Plant Breeding, University of the Philippines at Los Banos
Prof. Seok-Yeon Cho	Republic of Korea	Professor, Environmental Engineering, Inha University
Dr. Jin-Seok Han	Republic of Korea	Director, Atmospheric Chemistry Division, Air Quality Research Department, National Institute of Environmental Research (NIER)
Dr. Tamara Khodzher	Russia	Vice Director, Limnological Institute, Russian Academy of Sciences/Siberian Branch (RAS/SB)
Dr. Pojanie Khummongkol	Thailand	Associate Professor, Environmental Technology Division, King Mongkut's University of Technology
Dr. Duong Hong Son	Viet Nam	Director, Center for Environment Research, Institute of Meteorology and Hydrology

## Contents of the first periodic report

(Revised draft)

### *Executive Summary*

### **Introduction**

### **Part I Regional Assessment**

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- 1.1 Objective of EANET
- 1.2 Objective of periodic reports
- 1.3 History of EANET
- 1.4 Institutional framework of EANET
- 1.5 Monitoring stations
- 1.6 Monitoring program from 2001 to 2004
- 1.7 Outline of sampling and measurement methods
- 1.8 Outline of the national monitoring plans

#### **Chapter 2.** QA/QC activities and their evaluation

- 2.1 Program on QA/QC activity
- 2.2 Results of Inter-Laboratory Comparison Projects
- 2.3 Evaluation of meta data
- 2.4 Evaluation of the measurements

#### **Chapter 3.** State of acid deposition in East Asia

- 3.1 Regional geography and climatology
- 3.2 Atmospheric deposition
  - 3.2.1 Atmospheric and precipitation chemistry
  - 3.2.2 State of deposition
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- 3.3 Ecological impacts
  - 3.3.1 State of soil and vegetation
  - 3.3.2 State of inland aquatic environment
- 3.4 Comprehensive analysis

#### **Chapter 4.** Other regional studies in East Asia

- 4.1 Existed initiatives on monitoring for EANET region
- 4.2 Status of atmospheric transport modeling for EANET region
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- 4.4 Overview of ecological modeling and assessment studies in EANET region related acid deposition impact

#### **Chapter 5.** Conclusions and recommendations

### **Part II National Assessments**

*Cambodia*

*China*

*Indonesia*

*Japan*

*Lao PDR*

*Malaysia*

*Mongolia*

*Philippines*

*Republic of Korea*

*Russia*

*Thailand*

*Viet Nam*

**MINUTES**  
**of the First Meeting of the Drafting Committee**  
**for the Periodic Report**  
**on the State of Acid Deposition in East Asia**

1. The First Meeting of the Drafting Committee (DC) for the Periodic Report on the State of Acid Deposition in East Asia (PRSAD) was held 14-15 April, 2005 in Niigata, Japan. Meeting was attended by DC members and some alternatives from 11 participating countries, namely, Cambodia, China, Indonesia, Japan, Lao PDR, Malaysia, Mongolia, Philippines, Republic of Korea, Thailand, and Viet Nam. The Secretariat of EANET took part in the meeting.
2. The list of participants is attached as Annex 1.
3. Prof. Muhamad Awang, Chair of SAC bureau delivered opening address. Dr. Hiromasa Ueda, Director General of ADORC made opening address.
4. Mr. Nakayama, the Network Center (NC), presented draft content of periodic report for consideration by DC (EANET/DC 1/4). The examples of EANET data evaluation and presentation were introduced and provided for participants. Main topics of the discussion included the following:
  - Geographical and climatological information should be taken into consideration to aid evaluation of the monitoring data.
  - An independent chapter for QA/QC activities should be established accordingly.
  - The chapter for QA/QC activities should include evaluations of meta data and the measurements.
  - Data on wet deposition and dry deposition should be evaluated together as atmospheric deposition.
  - Overview on emission inventory would be included as references.
  - Detailed information on National Monitoring Plan would be moved to Part II, while outline of the plan would be described in Part I.
  - Description on critical value or toxic level is important to interpret EANET data.
  - The report would be of a technical and scientific nature, however it would be understandable by policy makers and the general public.
  - Trajectory analysis would not be included in the regional assessments but might be used in the national assessments.

5. Draft Content of PRSAD was revised according to the discussions.
6. The revised Content of PRSAD was agreed as Annex 2 by DC.
7. DC has adopted the organizing measures and additional procedures for preparation of PRSAD (EANET/DC1/5).
8. DC appointed Prof. Muhamad Awang, Chair of SAC bureau, as the Head of DC.
9. The list of lead and contributing authors with corresponding chapters is presented as Annex 3.
10. DC discussed the implementation plan for preparation of PRSAD. The major suggestions are as follows.
  - SWS2 would be held as a scientific workshop for DC to prepare the preliminary draft of the PRSAD. It is expected that the lead authors prepare the presentations for proposal of the preliminary drafts of the respective chapters.
  - The volume and number of pages of PRSAD will be decided at the next DC meeting, utilizing the EMEP report as a general format.
  - The Secretariat was requested to secure the budget for color printings and linguistic editing.
  - National Focal Points are expected to prepare and submit the national assessments to NC.
  - The deadline of the submission of the preliminary drafts on the national assessments will be by the end of July 2005.
  - It was suggested NC would prepare the list of published papers related to EANET activities.
11. NC presented the proposed procedures and outline for the Second Scientific Workshop. DC suggested that SWS for DC would have three-day duration or more in conjunction with SAC5.
12. NC will distribute CD-ROM with EANET data from 2001 to 2003 soon after the meeting.
13. Meeting has agreed to establish a website for the use until SAC5 Meeting.
14. NC informed the date of a scientific workshop for DC had been decided to be 29 – 31 August 2005.
15. The meeting considered and adopted this minutes.