MINUTES

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

- 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.

Annex 1

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

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Annex 2

Contents of the first periodic report

(Revised draft)

Executive Summary

Introduction

Part I Regional Assessment

Chapter 1. Basic information on EANET activities

- 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
 - 3.2.2.1 Wet deposition
 - 3.2.2.2 Dry deposition
- 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
- 4.3 Status of emission inventory for EANET region
- 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 Malaysia Mongolia Philippines Lao PDR Republic of Korea Russia Thailand Viet Nam

Information of the Contents

Executive Summary

Introduction

Part I Regional Assessment

Chapter 1. Basic information on EANET activities

- 1.1 Objective of EANET
- 1.2 Objective of periodic reports
- 1.3 History of EANET
 - Implementation and outcomes of Preparatory Phase activities
 - Commencement of Regular Phase activities
 - Objective of EANET
- 1.4 Institutional framework of EANET
 - Participating countries
 - Relation with other international activities such as CLRTAP etc.
- 1.5 Monitoring stations
 - Introduction of each monitoring stations
 - Map for the locations of monitoring stations
 - ➤ Information of classifications and monitoring conducted (urban, rural, remote)
- 1.6 Monitoring program from 2001 to 2004
 - Introduction and target of each monitoring media
 - > wet, dry, soil and vegetation, inland aquatic
- 1.7 Outline of sampling and measurement methods
 - Introduction of sampling methods
 - > wet, dry, soil and vegetation, and inland aquatic
 - > sampling period or interval
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 - Outline of the analytical 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
 - Precipitation
 - Atmospheric circulation
 - Temperature
 - Humidity
 - Other meteorological parameters
- 3.2 Atmospheric deposition
 - 3.2.1 Atmospheric and precipitation chemistry

- SO_2/SO_4^{2-}
- NOx/NO₃
- NH_3/NH_4
- O_3
- Ca²⁺
- Other species
- Acidity (pH, H⁺)

3.2.2 State of deposition

3.2.2.1 Wet deposition

- Geographical distribution of wet deposition
 - > Deposition amounts of each components
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- Seasonal variations of concentrations and depositions
- Regional Comparison
 - Rural, remote and urban area
 - North and South region

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- Geographical distribution of atmospheric concentrations of each components
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- 3.3.1 State of soil and vegetation
 - Discussion of tree decline in East Asia
 - Information of soil feature in East Asia
 - Possible impact on soil and vegetation
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 - Seasonal variations of concentrations in inland water
 - Possible impacts on inland water

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- Overview of national/regional criteria and standards
- Relationship among wet deposition, dry deposition, soil and vegetation, and inland aquatic environment

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
 - Review of existing activities
 - Trajectory, LTP project, MICS-Asia, Rains-Asia, etc.
- 4.3 Status of emission inventory for EANET region
 - Review of existing activities
 - LTP project, Rains-Asia, etc.
- 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

Malaysia

Mongolia

Philippines

Lao PDR

Republic of Korea

Russia

Thailand

Viet Nam

Note:

Chapter 1. Basic information on acid deposition activities of each country

- 1.1 Outline of the activities on acid deposition
- 1.2 Monitoring stations
- 1.3 Monitoring program from 2001 to 2004
- 1.4 Outline of sampling and measurement

Chapter 2. State of acid deposition in each country

- 2.1 Atmospheric deposition
 - 2.1.1 State of wet deposition
 - 2.1.2 State of dry deposition
- 2.2 Ecological impacts
 - 2.2.1 State of soil and vegetation
 - 2.2.2 State of inland aquatic environment
- 2.3 Overall analysis

Annex 3

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