

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

## **Report on the Progress of EANET after the Fourth Session of the Scientific Advisory Committee (SAC4) and the Sixth Session of the Intergovernmental Meeting (IG6)**

### **I. INTRODUCTION**

1. This report is prepared to review the progress of EANET activities after the Fourth Session of the Scientific Advisory Committee (SAC4) and the Sixth Session of the Intergovernmental Meeting (IG6) held in Siem Reap, Cambodia on 3-5 November and 7-8 November 2004, respectively.

### **II. INSTITUTIONAL AND ADMINISTRATIVE ASPECT**

2. In February and March 2005, the Ministry of the Environment (MoE), Japan and the United Nations Environment Programme, Regional Resource Centre for Asia and the Pacific (UNEP RRC.AP) signed agreements regarding the Japanese contribution in 2004 for the EANET activities including both the Secretariat and NC budget, and for NC budget covering the period January to March 2005 as well. Similarly, in March 2005 the Japan Environmental Sanitation Center (JESC) and the UNEP RRC.AP finalized the agreements for the transfer of budget for the implementation of NC core activities and additional budget activities in 2004 and for the first quarter of 2005.
3. The Secretariat received communications from some National Focal Points (NFPs) regarding few changes on institutional bodies of EANET in their respective countries, e.g. NFPs, Scientific Advisory Committee (SAC) members, etc.
4. In accordance with the revised "Guidelines for Recruiting the Deputy Director General of the Acid Deposition and Oxidant Research Center (ADORC) in charge of the Network Center of EANET (2004)", JESC in cooperation with the Secretariat for EANET carried out the recruitment procedure of the next Deputy Director General of ADORC in charge of the Network Center from August 2004. The Selection Committee of JESC was held in February 2005, and decided to re-select Dr. Gromov for this position based on evaluation of his appropriateness and opinions of some participating countries. His contract will expire at the end of September 2006.

5. The Secretariat prepared the Draft Report for Policy Makers and the Draft Report on Feasibility Study on an Appropriate Instrument to Provide a Sound Basis for Financial Contribution on EANET as decided by IG6, for discussion at the Second Session of the Working Group on Future Development of EANET (WGFD2) and for consideration at the Seventh Session of the Intergovernmental Meeting (IG7) to be held in November 2005.
6. Publications of Proceedings and Summaries of the following meetings were completed and distributed to the participating countries and participants of the sessions:
  - The First Session of the Working Group on Future Development of EANET (WGFD1)
  - The Fifth Senior Technical Managers' Meeting (STM5)
  - The Fifth Workshop on Public Awareness for Acid Deposition Problems (WSPA5)

### **III. INTERGOVERNMENTAL MEETING/ITS SUBSIDIARY BODIES**

#### **III- 1 WORKING GROUP ON FUTURE DEVELOPMENT OF EANET**

7. During IG6, the participants agreed to hold the Second Session of the WGFD. In order to discuss Draft Report on the Feasibility Study on appropriate instrument to provide sound basis for financial contribution, 5 Year Medium Term Plan (MTP5), Report for the Policy Makers and so on, the WGFD2 was held on 20-21 June 2005 in Bangkok, Thailand.

#### **III-2. TASK FORCES**

8. The Network Center (NC) continued the services as the secretariats of the Task Force on Dry Deposition Monitoring, the Task Force on Soil and Vegetation Monitoring, and the Network of Soil and Vegetation Specialists to promote the improvement of monitoring methodologies.
9. Following the discussion on the issues of Dry Deposition Monitoring in EANET at SAC4, NC as the Secretariat of the Task Force on Dry Deposition Monitoring prepared the draft of "Revised Edition of Strategy Paper for Future Direction of Dry Deposition Monitoring of EANET" and distributed it to NFPs, Heads of National Centers, SAC members and the Task Force members in April 2005 for asking comments.

10. The Task Force on Soil and Vegetation Monitoring of EANET is preparing the sub-manual on forest monitoring as one of the activities in line with the strategy paper. The leading authors of the respective (sub-) chapters have prepared manuscripts based on the document, "Contents and authors for the sub-manual on forest monitoring in East Asia (EANET/SAC 4/11/2/Annex 2). NC as the Secretariat of the Task Force is editing the manuscripts for circulation among Task Force members, SAC members, and relevant experts for their consideration. The international workshop is expected to be held in 2006 for reviewing the draft sub-manual. It is expected that the sub-manual will be endorsed at the Sixth Session of the Scientific Advisory Committee (SAC6) in 2006.

### III-3. THE DRAFTING COMMITTEE FOR THE PERIODIC REPORT ON THE STATE OF ACID DEPOSITION IN EAST ASIA

11. In accordance with the "Procedures to prepare the periodic report on the state of acid deposition in East Asia" decided by SAC4 in November 2004, the members of the Drafting Committee (DC) were nominated from the participating countries by the end of March 2005, and the First Meeting of the Drafting Committee (DC1) for the Periodic Report on the State of Acid Deposition in East Asia (PRSAD) was held in April 2005 in Niigata Japan. The meeting decided the draft contents of the first periodic report, lead authors and time schedule as well as other tasks reported in the "Minutes of DC1 for PRSAD". National reports will be also included in part II of PRSAD. Detailed information is presented in the document of "The Outcome of the First Drafting Committee for the Periodic Report on the State of Acid Deposition in East Asia" (EANET/WGFD 2/4/3).

### IV. PREPARATION AND DISSEMINATION OF INFORMATION MATERIALS AND PARTICIPATION IN EANET-RELATED MEETINGS AND WORKSHOPS

12. The NC attended the Fifth Collaborating Assessment Network (CAN5) Meeting which was held in Pathumthani, Thailand, November 2004. NC presented the overview of EANET activity for 2003-2004 as well as recent progress of NC. Collaboration with UNEP environmental programs and with related founding organization was also discussed.

### V. COMMUNICATION WITH PARTICIPATING COUNTRIES AND OTHER RELEVANT AGENCIES

13. The Secretariat and NC maintained close communication with the participating countries in all related activities of EANET and relevant organizations such as United Nations Economic Commission for Europe (UN/ECE).

## **VI. COMPILATION OF DATA AND DISSEMINATION OF DATA AND RELEVANT INFORMATION**

14. After presentation and consideration of the draft “Data Report on the Acid Deposition in the East Asia 2003 (Data Report 2003)” at SAC4, NC finalized it taking into account the comments at SAC4 and then distributed it to NFPs, National Centers, SAC members and other relevant organizations in January 2005. Data Report 2003 was disclosed outside of EANET.
15. Scientific and technical information of EANET such as “Data Report 2003”, “Reports of Inter-laboratory Comparison Projects in 2003” and other relevant information was disseminated among the participating countries, as well as other countries, relevant organizations and individuals by means of web-site after SAC4/IG6.
16. In accordance with the Detailed Mechanism of Article 4 of the Procedures on Data and Information Disclosure for EANET decided by the Third Session of the Scientific Advisory Committee (SAC3) and the Fifth Session of the Intergovernmental Meeting (IG5) held in Pattaya, Thailand in 2003, all of the EANET monitoring data in 2001 and 2002 were disclosed outside of EANET by means of CD.
17. EANET all monitoring data in 2004 have already been submitted from the participating countries to NC.

## **VII. STRENGTHENING OF TECHNICAL CAPACITY IN THE PARTICIPATING COUNTRIES**

### **VII-1. Dispatch of technical missions**

18. NC dispatched technical missions to the participating countries to exchange information and experiences, to provide technical advices and to disseminate the latest technical information. As of the end of May 2005, NC missions were sent to Malaysia (December 2004), China and Philippines (January 2005), Indonesia and R. of Korea (February 2005) Viet Nam and Thailand (March 2005), Cambodia and Lao PDR (June 2005) and Viet Nam (July-August 2005) after SAC4/IG6. (See Annex 1:

Technical Missions of NC since SAC4/IG6).

#### VII-2. The Sixth Senior Technical Managers' Meeting (STM6)

19. At WGFD1 held in August 2004, NC was suggested to consider a possibility of convening the future Senior Technical Managers' Meetings in the participating countries other than Japan. In accordance with the suggestion, NC asked the participating country if they could host STM6 in February 2005. Viet Nam expressed their willingness to host STM6 in their country.
20. NC in cooperation with the Secretariat and Viet Nam (Institute of Meteorology and Hydrology) held STM6 from 27 through 29 July 2005 in Hanoi, Viet Nam. The participants from 12 countries, observers and experts discussed the important technical issues on EANET activities including the progress on scientific and technical matters related to EANET since STM5 in 2004, MTP5 for EANET (2006-2010), consideration of the monitoring data and results of the inter-laboratory comparison projects in 2004, improvement of the monitoring methodologies and discussions on other issues to be considered further at SAC5.

#### VII-3. Implementation of the technical cooperation programs

21. With the financial support by Ministry of the Environment (MoE), Japan, NC has implemented the technical cooperation programs for some participating countries in Japanese Fiscal Year (JFY) 2004 and 2005 by providing technical and financial support to the countries. Technical and financial assistance were rendered for the Cambodia, Indonesia, Mongolia, Philippines and Viet Nam.

### **VIII. IMPLEMENTATION AND COORDINATION OF QA/QC ACTIVITIES**

22. Following the discussion on the draft reports of 2003 inter-laboratory comparison projects (the sixth one on wet deposition, the fifth one on soil and the fourth one on artificial surface water) at SAC4, NC finalized these reports taking into account the comments at SAC4 and distributed them to the participating laboratories in January 2005.
23. NC distributed samples of the 2004 inter-laboratory comparison projects (the seventh one on wet deposition, the sixth one on soil and the fifth one on artificial surface water) to participating countries in December 2004. All of the results were already submitted to NC. NC prepared the preliminary draft reports for consideration at STM6. NC informed all of the participating laboratories of the

prepared values of the inter-laboratory comparison projects in 2004 on wet deposition and inland aquatic environment.

## **IX. IMPLEMENTATION OF TRAINING ACTIVITIES**

24. The following training activities have been implemented in accordance with the “Training Programs for EANET in the Regular Phase” endorsed at the Third Session of the Intergovernmental Meeting (IG3).

### **IX-1. Assistance for national training activities**

25. NC dispatched an expert to China to provide technical support for national training program on acid deposition monitoring in November 2004.

### **IX-2. Utilization of existing training programs (Japan International Cooperation Agency (JICA) Training Course)**

26. “JICA Country Focused Training Course on EANET” in JFY 2004 was held from 11 October through 19 December 2004 in Kobe, Japan. Ten trainees from ten East Asian countries participated, namely Cambodia, China, Indonesia, Lao P.D.R., Malaysia, Mongolia, Philippines, Thailand, Viet Nam and Myanmar. NC delivered several lectures in the training course. In addition, during the visit of JICA trainees to Niigata, NC presented lectures and demonstrated practices on acid deposition monitoring of EANET. In 2005, the same JICA course is planned to be held in Kobe, too.

27. NC has maintained close communication and coordination with the organizers of JICA training course on the curriculum by sending its staff to the steering committee and informing them of the EANET activities in a timely manner.

28. Regarding the JICA Third Country Training on “The Acid Deposition Monitoring and Assessment in Thailand” held on 17-28 January 2005, NC dispatched experts to Thailand during this training as lecturers of the training. Twenty two (22) trainees from 9 EANET countries, namely Cambodia, China, Indonesia, Lao P.D.R., Malaysia, Mongolia, Philippines, Thailand and Viet Nam, and Myanmar also participated in the training course. The Phase I of this course will continue until 2007.

29. JICA Third Country Training Course in JFY 2005 on Emission Inventory and Modeling for Acid Deposition Assessment will be held on 15 January –3 February 2006. In accordance with the request from Thailand, NC disseminated the

information on this course to NFPs of the relevant participating countries in August 2005.

**IX-3. Implementation of individual training**

30. The individual training at NC has been implemented taking into account specific situations in the participating countries. One trainee each from Cambodia and Lao P.D.R. received individual training at NC from 31 January through 25 February 2005, on wet deposition monitoring, overview of dry deposition and soil/vegetation monitoring and data management.

**IX-4. Implementation of questionnaires on national training activities**

31. NC sent questionnaires on national training activities in 2004 to the participating countries in July 2005. NC has prepared a report on results of this survey for submission to SAC5. The result of this survey is attached as Annex 2. (National Training Activities in the Participating Countries of EANET in 2004)

**X. RESEARCH ACTIVITIES**

32. In order to attain the objectives of EANET, it is important to evaluate appropriately the actual situation of environmental impacts of acid deposition and to research on monitoring methodologies and development of analytical methods suitable for East Asia. NC performed the following research activities under considerations of the regional characteristics.

**X-1. Joint research project with Russia**

33. The joint research project Phase 2 with the Limnological Institute, Russian Academy of Science, Siberian Branch (RAS/SB) has been implemented. Annual acid deposition as well as heavy metals (mercury and lead) and lead isotope ratio in snow have been determined at four sites in East Siberia and Primorsky Region in Russia. The methodologies on data analysis used in the project for the acid deposition data were very useful for data analysis of EANET network. The monitoring data were important to evaluate long-range transportation of air pollutants from Europe and industrial regions of Russia to East Asia.

**X-2. Joint research project with Thailand**

34. In order to investigate the deposition velocities above specific surfaces in East Asia, NC has been promoting a joint research project on dry deposition flux with

Pollution Control Department (PCD), Thailand. A flux observation system using micrometeorological techniques was established in a teak forest located in Mae Moh, Lampang Province, Thailand, and then the observation was started in late 2001. The available data for over three years were accumulated as of December 2004 to be used for scientific evaluation. The report of the data analysis was presented at STM6.

X-3. Joint research project with Mongolia

35. Since 2001, NC has been promoting joint research project on plant sensitivity to acid deposition with the Central Laboratory of Environmental Monitoring (CLEM), Mongolia. Based on results of this project, presentations were made in the international symposium, which was held in Tsukuba, Japan in October 2004. The scientific paper will also be published in the international journal within the year 2005. The data will be informative for the activities in line with the Strategy Paper for Future Direction of Soil and Vegetation Monitoring of EANET.

X-4. Joint research project with Republic of Korea

36. During NC technical mission to Republic of Korea in February 2005, NC and National Institute of Environmental Research (NIER), Ministry of the Environment, Republic of Korea discussed the possibility of joint research project on the measurement of aerosol. NC and NIER agreed to start the project from this autumn.

X-5. Other research activities

37. Catchment analysis is one of the issues described in the Strategy Paper for Future Direction of Soil and Vegetation Monitoring of EANET. For obtaining basic data on this issue, research activities were implemented in a small catchment area in Kajikawa Village, Niigata Prefecture, Japan. In the area, monitoring on input (deposition) and output (stream water) fluxes in/from the catchment area, and analyses on other biogeochemical aspects have been carried out continuously, and nutrient dynamics and acid deposition impacts in the area would be estimated. A part of outcomes in this study was presented in ACID RAIN 2005, in June 2005, Prague, Czech Republic.

38. NC obtained the research budget for catchment analysis in Thailand from the Global Environment Research Fund, the Ministry of the Environment, Japan in February 2005. Discussion on the detailed study plan has just started in cooperation with Royal Forest Department (RFD), Thailand, and the study will become actual joint research project with RFD. The official letter was already sent to the national Focal Point of Thailand. The project will be informative for evaluation of adverse



effect on ecosystems in line with the Strategy Paper for Future Direction of Soil and Vegetation Monitoring of EANET.

39. Technical Document for Filter Pack Method in East Asia endorsed by SAC3 suggests further studies on the methodology. Based on the comments on sampling efficiency of the method at SAC3, NC conducted a research on the methodology of 4-stage (Teflon, Nylon, Alkali impregnated cellulose, and Acid impregnated cellulose) filter pack method for the air concentration monitoring. The applicability of the filter pack method with open face and aluminum PM<sub>10</sub> impactor was examined. Sampling efficiency of SO<sub>2</sub> was also examined.

## **XI. ACTIVITIES RELATED TO PUBLIC AWARENESS FOR ACID DEPOSITION PROBLEMS**

### **XI-1. Joint projects with selected participating countries**

40. Since 1999, INC/NC has been undertaking joint projects with selected participating countries to develop their own national brochures and/or videotapes on acid deposition. In 2004, NC undertook a project with Cambodia to develop brochures, and held an in-country workshop in Russia in November 2004.

### **XI-2. Workshop on Public Awareness for Acid Deposition Problems**

41. NC organized the Fifth Workshop on Public Awareness for Acid Deposition Problems on 28 - 29 January 2005 in Niigata, Japan. The Workshop consisted of the Part I and the Part II. The Part I was attended by approximately forty participants and observers from Cambodia, China, Indonesia, Japan, Lao P.D.R., Malaysia, Mongolia, Philippines, Republic of Korea, 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.
42. In addition to the participants of the Part I, approximately three hundred local residents in Niigata attended the Part II of the Workshop. They included children from elementary school in Niigata City.

### **XI-3. Development of e-Learning program**

43. NC also has been developing an e-Learning program on acid deposition problems for environmental education in collaboration with Institute for Global

Environmental Strategies (IGES) since 2002. Its English version will be finalized before IG7.

## **XII. OTHER ACTIVITIES**

### **XII-1 Communication with relevant organizations/programs**

44. In order to investigate the differences among the long-range transport models developed for East Asian region, NC has been collaborating with the Model Inter-comparison Study (MICS-Asia) Phase II. The Sixth Workshop on the Transport of Air Pollution in Asia was held at International Institute for Applied Systems Analysis (IIASA), Austria on 14-15 February 2005, financially supported by ADORC. The progress on the model simulation (Phase II) was presented by each participant. Analysis framework of the model inter-comparison was developed at the Workshop.

## Annex 1

## Technical Missions of NC since SAC4/IG6

Country	Period	Main Purposes
Malaysia	5 – 11 December 2004	(i) to discuss and exchange information on wet and dry deposition sampling performed by Malaysian Meteorological Service (MMS) including dry deposition monitoring method; (Filter Pack method and Passive Sampler); (ii) to discuss conditions of wet and dry deposition analysis at Department of Chemistry (DOC); and (iii) to discuss and exchange information on inland aquatic environmental monitoring performed by University Teknologi Mara (UiTM).
China	5 – 14 January 2005	(i) to exchange information and views on progress of the monitoring activity on EANET in China; (ii) to visit urban and remote monitoring sites and laboratories in China (Xiamen and Xi'an); and (iii) to exchange the other information and views on acid deposition, such as new monitoring plan of China including new monitoring sites and monitoring methodology, QA/QC activities and data reporting of EANET, and implementation of filter-pack method, etc.
Philippines	16 – 22 January 2005	(i) to exchange views and information on the institutional arrangement on the acid deposition monitoring of EANET in the Philippines; (ii) to discuss and exchange information on technical issues, especially QA/QC activities and data reporting, for wet and dry deposition monitoring including check on condition of sampling and analytical instruments; and (iii) to visit the candidate monitoring site for wet/dry deposition and inland aquatic environment, and discuss on the arrangement of suitable site performance with the relevant experts.
Indonesia	6 – 12 February 2005	(i) to exchange views and information on progress of activities on the acid deposition monitoring in Indonesia with the staff of Ministry of the Environment, Indonesia; (ii) to discuss technical issues such as QA/QC activities for monitoring activities with the staff of the Environmental Impact Control Facility (SARPEDAL) and Research Institute for Water Resources (RIWR); and (iii) to visit the new (candidate) monitoring site for inland aquatic environment.

Country	Period	Main Purposes
Republic of Korea	21 – 24 February 2005	<ul style="list-style-type: none"> <li>(i) to exchange information and views on progress of the monitoring activity on EANET in Republic of Korea;</li> <li>(ii) to exchange information and views in detail on the progress of wet &amp; dry deposition and the soil &amp; vegetation monitoring of EANET in Republic of Korea; and</li> <li>(iii) to discuss the possibility of joint research project for the measurement of aerosol and joint public awareness project with Republic of Korea.</li> </ul>
Thailand	27 February – 4 March 2005	<ul style="list-style-type: none"> <li>(i) to exchange information and views on the progress of activities on the acid deposition monitoring in Thailand</li> <li>(ii) to visit monitoring sites at Pollution Control Department (PCD), Meteorological Department (TMD), Environmental Research and Training Center (ERTC) and their laboratories; and</li> <li>(iii) to visit the candidate site for Inland aquatic environment monitoring (Sakaerat).</li> </ul>
Viet Nam	7 – 15 March 2005	<ul style="list-style-type: none"> <li>(i) to exchange information and views on the progress of EANET activities and activities on the acid deposition monitoring in Viet Nam;</li> <li>(ii) to visit the candidate sites for soil and vegetation/inland aquatic environment monitoring in Tam Dao near Hanoi City and Bach Ma near Da Nang City; and</li> <li>(iii) to visit relevant agencies for exchange information and discussion on the cooperation in acid deposition monitoring activities in Viet Nam.</li> </ul>
Cambodia and Lao PDR	23 – 28 June 2005	<ul style="list-style-type: none"> <li>(i) to exchange information and views on institutional and technical arrangements for the activities of EANET in Cambodia and Lao PDR;</li> <li>(ii) to exchange information and views on technical cooperation by NC and public awareness activities in Cambodia and Lao PDR; and</li> <li>(iii) to visit relevant organizations and exchange information and views on technical support to Cambodia and Lao PDR.</li> </ul>
Viet Nam	31 July – 3 August 2005	<ul style="list-style-type: none"> <li>(i) to exchange information and views on the progress of activities on the acid deposition monitoring in Viet Nam; and</li> <li>(ii) to visit relevant agencies for exchange information and discussion on the cooperation in acid deposition monitoring Activities.</li> </ul>

**Annex 2**

**National Training Activities in the Participating Countries  
of EANET in 2004**

**I . INTRODUCTION**

1. The “Training Programs for EANET in the Regular Phase (EANET/IG 3/10/2)” was endorsed at the Third Session of the Intergovernmental Meeting for EANET (IG3), held on 19-20 November 2001 in Chiang Mai, Thailand. In order to submit the draft document, the Network Center (NC) for the Acid Deposition Monitoring Network in East Asia (EANET) implemented a “Questionnaire Survey for Training/capacity Building Needs”.
2. In line with the “Training Programs for EANET in the Regular Phase” and the “Work Program and Budget in 2005”, NC implemented the “Questionnaire Survey for National Training Activities in 2004” in this summer. This report was developed to disseminate the result of this survey.

**II. RESULTS OF QUESTIONNAIRE SURVEY FOR NATIONAL TRAINING IN  
2003**

3. The summary of the result of the “Questionnaire Survey for National Training in 2004” is attached. In 2004, totally 37 (2003: 22) events of national training/capacity building activities such as national workshops, technical meetings and individual training, etc. were carried out in 8 (2003: 8) participating countries. They were implemented various kinds of training/capacity building activities in line with specific needs of their countries and under existing institutional framework in the participating countries.
4. The major topics of national training in 2004 were wet deposition monitoring (including sampling and analysis of samples), dry deposition monitoring (including air quality monitoring and analysis). Training on Soil/vegetation and/or inland aquatic environment monitoring (including sampling and analysis of inland water) were also implemented in three countries (Japan, Russia and Thailand) as well as data management and/or modeling in two countries (Malaysia and Russia). Training course on ozone was also carried out in Malaysia. NC dispatched experts as lecturers of national training based on the request from participating country (China) for the national training courses. If other countries request to dispatch experts as the lecturers, NC would like to accept as possible as NC can.

Attachment

**National Training Programs in 2004**

Country Name		Title of Training course/ Meeting	Duration	No. of Participants	Major Topics
<b>Cambodia</b>	1	Basic knowledge of acid deposition and its harmful influence reduction	9-11 March 2004	47	<ul style="list-style-type: none"> <li>- General aspect of acid deposition (cause and effects)</li> <li>- Acid deposition in a transboundary formation and its harmful effects</li> <li>- Technical countermeasures (experience from countries in the region and Cambodia)</li> </ul>
	2	Basic knowledge of acid deposition and its harmful influence reduction	6-8 July 2004	57	<ul style="list-style-type: none"> <li>- General aspect of acid deposition (cause and effects)</li> <li>- Acid deposition in a transboundary formation and its harmful effects</li> <li>- Technical countermeasures (experience from countries in the region and Cambodia)</li> <li>- Related legislation to cut down the emission of acid deposition</li> </ul>
<b>China</b>	1	Training on SO <sub>2</sub> and acid deposition monitoring	6-17 June 2004	50	<ul style="list-style-type: none"> <li>- Laws and policy on the control of SO<sub>2</sub> emission;</li> <li>- Methods and technique of wet deposition monitoring;</li> <li>- Introduction of acid deposition monitoring in Chongqing;</li> <li>- Introduction of National Acid deposition monitoring; and</li> <li>- Lectures on national air quality monitoring network.</li> </ul>
	2	Workshop on acid deposition monitoring in Fuzhou, Fujian province	24 - 26 November 2004	80	<ul style="list-style-type: none"> <li>- Acid Deposition Monitoring Network in East Asia;</li> <li>- Wet deposition monitoring and QA/QC of EANET;</li> <li>- Dry deposition monitoring of EANET;</li> <li>- Introduction of the progress of national wet deposition survey; and</li> <li>- Introduction of Acid deposition monitoring activities in Fujian, Anhui and Zhejiang province.</li> </ul>
<b>Indonesia</b>	-				

Country Name	Title of Training course/ Meeting	Duration	No. of Participants	Major Topics	
Japan	1	Training on Instrumental Analysis	15 -30 January 2004	46	- Ambient air and water analysis (Including practice on Atomic Absorption Spectrometry 3 hours, Ion chromatography 3 hours)
	2	Meeting on National Acid Deposition Monitoring, JFY2003	30 January 2004 (3hours)	78	- Wet/Dry deposition monitoring
	3	Meeting on National Acid Deposition Monitoring (inland aquatic environment), JFY 2003	15 March 2004 (3hours)	29	- Inland aquatic environment monitoring
	4	Training on Water Analysis	10 - 25 May 2004	36	- Practices on water analysis ( related to inland aquatic)
	5	Meeting on National Acid Deposition Monitoring (soil & vegetation), JFY2004	7 July 2004 (3hours)	31	- Soil & vegetation monitoring
	6	Meeting on Survey and Research of Acid deposition	19 October 2004 (3 hours)	82	- Overview of acid deposition monitoring in Japan, Progress on EANET activities, Some topics related to acid deposition monitoring by local governments
	7	Training on Operation of Automatic Ambient Air Monitoring Instruments	8-10 November 2004 (Osaka) 17-19 November 2004 (Tokyo )	87	- Gaseous concentration monitoring (related to dry deposition)
	8	Training on Instrumental Analysis	29 November – 14 December 2004	49	- Ambient air and water analysis (Including practice on Atomic Absorption Spectrometry 3 hours, Ion chromatography 3 hours)

Country Name		Title of Training course/ Meeting	Duration	No. of Participants	Major Topics
Lao P.D.R	-				
Malaysia	1	Seventh GAWTEC Course	14-25 June 2004	15	- Ozone monitoring and studies, data quality assurance and control
	2	Eight GAWTEC Course	21 September – 1 October 2004	14	- Aerosol and precipitation chemistry; and - Data quality assurance and control
	3	Advance Aerosol Training Course	13- 17 December 2004	20	- Aerosol monitoring and analysis.
	4	Meeting with Dr Magnus Engardt on MATCH Model	2 days	6	- Transboundary acid transport and deposition
	5	Visit of post graduate students from University of Malaya	1 day	15	- Briefing on environment including acid deposition
	6	On-site training of students	6 weeks	2	- Acid deposition monitoring and analysis
	7	Dialogue between Malaysian Meteorological Service and Department of Chemistry.	1 day	10	- Dry and wet sampling and analysis, data QA and QC.
	8	Workshop on Regional GHG measurement and modeling	10 days	20	- Air pollution modeling
	9	Dialogue between Malaysian Meteorological Service and Department of Chemistry on 28/1/2004	28 January 2004 (1 day)	8	- Dry and wet sampling and analysis, data QA and QC.
	10	Dialogue between Malaysian Meteorological Service and Department of Chemistry on 4/8/2004	4 august 2004 (1 day)	10	- Dry and wet sampling and analysis, data QA and QC.



Country Name		Title of Training course/ Meeting	Duration	No. of Participants	Major Topics
<b>Mongolia</b>	1	Yearly seminar for environmental monitoring	14-18 March 2004	10	Environmental quality monitoring including acid deposition monitoring, QA/QC program.
	2	Air pollution & acid deposition	14-18 May 2004	20	Air pollution; Wet & dry deposition
<b>Philippines</b>	1	Introduction of Passive Sampling Method / Preparation of Sampler	14 January – 06 March 2004	10	Lecture on passive sampling method; Preparation of passive sampler; Set up of three passive samplers at Metro Manila EANET station; and Collection of sample using passive sampler
	2	Second Seminar-Workshop on Acid Deposition Monitoring: Wet and Dry and Inland Aquatic Environment Monitoring	17 – 20 February 2004	40	Overview and updates on the activities of the Acid Deposition Monitoring Network in East Asia; Site selection criteria and overview of EANET's QA/QC procedures; Significant parameters for wet / dry deposition and inland aquatic; Sampling procedure and sample preparation; Demonstration and hands-on: laboratory analysis; and General discussion on acid deposition action plan.
	3	Bantay Ulan (Rain Watch) Launching Ceremonies cum Training Session	25 June 2004	45	Acid Deposition Overview; Bantay Ulan (Rain Watch); Bantay Ulan Demonstration; and Hands on exercises for teachers of participating schools.
<b><u>R. of Korea</u></b>	-				

Country Name	Title of Training course/ Meeting	Duration	No. of Participants	Major Topics
<b>Russia</b>	1 Training course on the water analysis Inter-laboratory comparison project on “reference material” of Baikal water	1-20 May 2004	15	Quality control of methods using for analyses of inland aquatic environment; and To find out the correctness of methods of analyses of inland aquatic environment in laboratories of Siberia.
	2 Environment training course for students of chemical faculty of Irkutsk State University	1-8 July and 2-6 September 2004	40	Sampling and analyses of wet and dry deposition, inland aquatic environment, effects of acid deposition for environment
	3 Meeting on “Aerosols of Siberia”	25-30 November 2004	83	Air pollution of Siberia, greenhouse gases, biological aerosol, processes of mathematical modelling in the atmosphere.
	4 Individual training	5-15 April 2004	8	Wet deposition, dry deposition, soil, inland aquatic environment.
	5 Individual training	6-20 July 2004	8	Wet deposition, dry deposition, soil, inland aquatic environment.
	6 Individual training	15-26 October 2004	8	Wet deposition, dry deposition, soil, inland aquatic environment

Country Name		Title of Training course/ Meeting	Duration	No. of Participants	Major Topics
Thailand	1	Seminar on Acid Deposition Problem in Thailand	6 February 2004	50	Mechanism, situation, monitoring activities, control strategy, case study of acid deposition problem.
	2	Third Country Training on Acid Deposition Monitoring and Assessment.	15-27 February 2004	24	General information of acid deposition monitoring; Wet Deposition Monitoring; Soil and Vegetation monitoring; Inland Aquatic Monitoring; Dry Deposition Monitoring; QA/QC for acid deposition Monitoring. Discussion on acid deposition monitoring; and Observation.
	3	National Training on Acid Deposition Monitoring in Thailand	3-6 August 2004	40	Wet , Dry Deposition; Soil and vegetation; and Inland Aquatic Environment.
Viet Nam	3	Advanced Training Workshop on Regional Greenhouse Gas Measurement and Modeling	22 November – 2 December 2004	4	Emissions of Air pollutants US & European Researches on Emissions and Modeling Air quality Modeling in Taiwan Air quality Observations in Taiwan Meteorological Modeling Modeling techniques Modeling findings preparations