

The Fifth Session  
of the Intergovernmental Meeting  
on the Acid Deposition Monitoring Network  
in East Asia  
27-28 November 2003, Pattaya, Thailand

## **WORK PROGRAM AND BUDGET IN 2004 FOR THE ACID DEPOSITION MONITORING NETWORK IN EAST ASIA (EANET)**

### **I. INTRODUCTION**

1. At the Second Session of the Intergovernmental Meeting (IG2) on Acid Deposition Monitoring Network in East Asia (EANET) ten countries in East Asia decided to start the activities of EANET on a regular basis, based on the experience obtained through their preparatory-phase activities during 1998-2000. The regular phase of EANET started from January 2001.
2. The Second Session of the Scientific Advisory Committee (SAC2) and the Fourth Session of the Intergovernmental Meeting (IG4) were held in November 2002. The agenda of SAC2 included consideration of the national monitoring plans of the participating countries for the regular phase, data report and QA/QC activities for 2001 and other important issues. The application of Lao PDR to participate in EANET was approved by IG4.
3. The United Nations Environment Programme (UNEP) has made necessary arrangements for establishing the office of the Secretariat at the Regional Resource Centre for Asia and the Pacific (RRC.AP) including recruitment of Secretariat staff. EANET and UNEP made the agreement on “Framework on the Establishment of the Secretariat of the Acid Deposition Monitoring Network in East Asia (EANET)” in October 2002. The Acid Deposition and Oxidant Research Center (ADORC), designated as the Network Center for EANET, appointed a person from a participating country as Deputy Director General in charge of the Network Center in October 2002.
4. After presentation and consideration of the draft “Data Report on the Acid Deposition in the East Asia Region 2001” at SAC2, the report was finalized and disclosed outside EANET according to the “Procedures on Data and Information Disclosure for EANET” adopted at the Third Session of the Intergovernmental Meeting (IG3) in 2001.
5. The EANET activities that were promoted in 2003 will be continued and improved in the next year. This document describes the work program of EANET in 2004 (calendar year).

## II. OBJECTIVES

6. The long-term objectives of the EANET activities are:

- 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 and regional levels with goals to prevent or reduce adverse impacts on the environment caused by acid deposition; and
- to promote the mutual cooperation on the issues related to acid deposition among the participating countries.

7. Toward the achievement of these long-term objectives, the EANET activities in 2004 aim at, among others:

- implementing the national monitoring plan in each participating country toward ensuring an adequate assessment of the state of acid deposition in East Asia;
- improving quality assurance /quality control (QA/QC) in monitoring activities;
- developing monitoring methodologies, particularly for dry deposition and impacts on soil and vegetation to be applicable and adequate for East Asia;
- continuing studies and researches on further scientific issues;
- sharing experiences and information on research results in emission inventory and numerical modeling;
- developing a project proposal for possible funding by some international organizations; and
- consideration on future development of EANET.

## III. INSTITUTIONAL ASPECTS

(Intergovernmental Meeting)

8. The Intergovernmental Meeting (IG), composed by representatives of the participating countries, will continue to serve as the decision making body for EANET. The Working Group (WG) to be organized for discussion of important issues of EANET, for example, on Further Financial Arrangement or with wider scope of issues, will be in operation under the guidance of IG.

(Scientific Advisory Committee)

9. The Scientific Advisory Committee (SAC), composed as a committee of scientific and technical experts from the participating countries, will continue to serve as a subsidiary body of IG to advise and assist IG with various scientific and technical matters related to EANET. The participating countries are requested to nominate one or two expert(s) as member(s) of SAC. It is recommended to nominate one expert in deposition monitoring, and one expert in impact monitoring. Any changes in SAC members should be communicated to the Secretariat in written form.

(Task Forces)

10. The Task Force on Dry Deposition Monitoring, the Task Force on Soil and Vegetation Monitoring, and the Network of Soil and Vegetation Specialists are in operation under the guidance of SAC as subgroups to develop monitoring methodologies and discuss important issues for EANET. Participating countries may notify in written form any changes or additional nomination of the members of these subgroups to the Network Center.

(Secretariat)

11. The UNEP RRC.AP will continue to serve as the Secretariat for EANET.

(Network Center)

12. ADORC will continue to serve as the Network Center of EANET.

(National Focal Points)

13. The national focal points of participating countries will represent their countries in communication with the Secretariat, other participating countries and relevant bodies, and coordination of the EANET activities within their countries. If a country wishes to change the national focal point, the correspondent notification should be sent to the Secretariat in written form on the name and affiliation of the new national focal point as well as its mailing address, numbers of telephone and facsimile and e-mail address.

(National Centers and National QA/QC Managers)

14. The national centers and national QA/QC managers will continue their duties. If a country wishes to change them, the appropriate notification should be provided to the Secretariat in written form with the name, affiliation, mailing address, telephone and facsimile numbers and e-mail address of the new national center and/or the new national QA/QC manager.

#### IV. MONITORING ACTIVITIES

15. The participating countries are requested to revise the national monitoring plans where appropriate based on the experiences on previous years and correspondent scientific advices at the Third Session of SAC (SAC3). Revised plans will be submitted to the Network Center with information on all monitoring sites such as their names, addresses and geographical descriptions.

16. The participating countries will continue the acid deposition monitoring based on the national monitoring plans.

17. The participating countries are requested to submit their data and related information obtained through the EANET monitoring activities for the calendar year 2003 to the Network Center by 30 June 2004.

V. ACTIVITIES OF THE INTERGOVERNMENTAL MEETING

18. The Sixth Session of IG (IG6) will be held in autumn 2004. Countries willing to host IG6 are invited to express their intention to the Secretariat. The Secretariat will discuss the date and venue of IG6 with the host country. Each participating country, in principle, should cover finance expenses of its representatives to attend at IG6.

19. IG6 may wish to consider the following agenda items, which will be elaborated later by the Secretariat in communication with the participating countries:

- review and endorsement of the outcomes of SAC4;
- review of the progress of EANET activities and financial report;
- consideration of future development of EANET;
- consideration of the work program and budget in 2005; and
- any other issues raised by the participating countries.

20. The Session of the Working Group to be decided at IG5 will be held in spring 2004. The outcomes of WG will be reported and considered at IG6.

VI. ACTIVITIES OF THE SCIENTIFIC ADVISORY COMMITTEE

21. The Fourth Session of SAC (SAC4) will be held immediately before IG6 in autumn 2004. The participating countries are encouraged to bear the expenses of their SAC members to participate in SAC4.

22. SAC4 may wish to consider the following agenda items, which will be elaborated later by the Secretariat and the Network Center in communication with the participating countries:

- review of the EANET activities since SAC3/IG5 from scientific and technical viewpoints;
- consideration of revisions of national monitoring plans to be presented by the participating countries;
- review of the data report on the acid deposition monitoring in 2003;
- consideration of improvement of the monitoring methodologies;
- consideration of research activities on acid deposition including collaboration with initiatives on emission inventory studies and numerical modeling;
- consideration of future development of EANET from scientific and technical viewpoints;
- consideration on the Work Program and Budget for 2005 from scientific and technical viewpoints;
- update of other international programs on acid deposition; and
- any other issues raised by the SAC members or the participating countries.

23. The Task Force on Dry Deposition Monitoring will implement its activities in line with the “Strategy Paper for Future Direction of Dry Deposition Monitoring of EANET” endorsed by Interim Scientific Advisory Group in September 1999, by developing and discussing technical issues for monitoring of atmospheric pollutant concentration, and reviewing research activities for inferring dry deposition velocities at some reference sites.

24. The Task Force on Soil and Vegetation Monitoring will implement its activities in line with the “Strategy Paper for Future Direction of Soil and Vegetation Monitoring of EANET” endorsed by SAC in November 2002. The Network of Soil and Vegetation Specialists will promote dissemination and exchange of technical information on soil and vegetation monitoring in East Asia.

## VII. ACTIVITIES OF THE SECRETARIAT

25. UNEP will continue to implement the Secretariat functions.

26. The Secretariat will make necessary arrangement for the sessions of IG, SAC, and WG in cooperation with the Network Center and the participating countries. Such arrangement includes preparation and coordination of meeting documents, communication with the host country, reporting, publication of proceedings, logistic service such as preparation for conference facilities and so on.

27. The Secretariat will make administrative and financial arrangement for EANET, such as regular communication with the national focal points, contracting with ADORC for the Network Center activities, promotion of public awareness of EANET, etc.

28. The Secretariat as well as the Network Center will promote further communication and cooperation with relevant organizations and programs relating to acid deposition such as the Northeast Asian Subregional Environmental Cooperation Program, United Nations Transboundary Air Pollution Modeling Program, European Monitoring and Evaluation Program under the UN ECE Convention on Long Range Transboundary Air Pollution, etc.

## VIII. ACTIVITIES OF THE NETWORK CENTER

(Central compilation, evaluation and storage of data)

29. The Network Center will compile, evaluate and store the monitoring data obtained through the EANET activities. Special attention will be paid to the QA/QC activities in the participating countries as well as data verification, and therefore, the data verification group in the Network Center will review the data for mentioned purpose.

(Preparation of data report)

30. The Network Center will prepare the data report for 2003, based on the data submitted by the participating countries. The draft data report will be distributed among SAC members in autumn 2004 for their review and comments.

(Dissemination of data and relevant information)

31. The data submitted to the Network Center will be provided to participating countries in accordance with the procedures on data and information disclosure for EANET. Relevant scientific and technical information will be disseminated among the participating countries, as well as other countries, relevant organizations and individuals, either through technical documents, the EANET website or other means in accordance with the mentioned procedures. Periodic updating of EANET website will be undertaken to include the records of the EANET activities as appropriate.

(Strengthening of technical capacity in the participating countries)

32. The Network Center will continue to dispatch technical missions to the participating countries to exchange information and experiences with local experts, to provide technical advice and to disseminate the latest technical information. Participating countries are encouraged to organize a technical workshop during these technical missions.

33. The Network Center will organize the Fifth Senior Technical Managers' Meeting (STM5) in September/October 2004 in collaboration with relevant organizations. The major objectives of this meeting are to disseminate the latest scientific and technical information, to review EANET activities of the participating countries, to clarify some important technical issues and to identify necessary activities to be carried out by the participating countries.

34. In addition, the Network Center will continue to provide assistance and technical support to individual participating countries, depending on their situation. In this connection, close cooperation and coordination will be undertaken with relevant international and bilateral organizations.

(Implementation and coordination of QA/QC activities)

35. Following the inter-laboratory comparison surveys from 1998 to 2003, the Network Center will undertake the 2004 inter-laboratory comparison surveys in November/December 2004. The 1998 survey covered artificial precipitation samples for analysis, and additionally the soil samples were distributed in 1999 for inter-comparison. Further surveys for 2000 through 2003 covered also artificial samples on inland aquatic environment. The 2004 surveys will cover these three fields of sample analysis, namely wet deposition, soil and inland aquatic environment. The Network Center will prepare reports on the inter-laboratory comparison surveys in 2003, based on the data submitted by the participating laboratories for review and comments by SAC members. The Network Center will consider the QA/QC activities of EANET on Filter Pack Method.

36. The Network Center will continue to disseminate technical information on the QA/QC programs of EANET and other technical documents, to provide technical advice for the participating countries in developing national QA/QC programs and standard operating procedures for all the monitoring activities, etc.

(Implementation of training activities)

37. The Network Center will implement the following training activities.

- Survey for implementation status of national training activities in the participating countries;
- Continuation of the development of detailed training materials, technical documents for monitoring wet deposition, dry deposition, soil and vegetation and inland aquatic environment;
- Assistance for national training activities by providing technical materials, dispatching of technical experts, etc.; and
- Individual training at the Network Center.

38. Various training programs and other technical assistance activities implemented by donor agencies will be utilized to a maximum extent for the promotion of EANET. The Network Center will closely communicate and coordinate with such donor agencies on this matter.

(Research activities)

39. The Network Center will continue research activities to improve monitoring methodologies with particular emphasis on dry deposition and soil/vegetation monitoring.

40. The following research activities will be undertaken in 2004, depending on availability of necessary financial resources. Such research activities will be also promoted under the cooperation with the participating countries by exploring use of existing fellowship schemes for joint studies and to invite researchers to the Network Center for several weeks for a joint study. .

- Joint project with Thailand will be continued to evaluate the dry deposition fluxes as well as dry deposition velocity;
- Joint research on evaluation of atmospheric environment in East Siberia and Primorsky region in Russia.
- Collaboration with existing initiatives on developing of emission inventories and numerical modelling; and
- Other research activities as appropriate.

(Task Forces, etc.)

41. The Network Center will continue to provide a support to the Task Force on Dry Deposition Monitoring, the Task Force on Soil and Vegetation Monitoring, and the Network of Soil and Vegetation Specialists, being as their Secretariat.

(Other activities)

42. The Network Center will undertake following activities, depending on availability of necessary financial resources.

- Promotion of public awareness in selected participating countries through joint projects on developing their own national brochures on acid deposition, supporting to hold their in-country workshops, operating an educational material for internet use, etc, and by organization of a workshop to exchange experience on public awareness among participating countries; and
- Close communication and coordination with acid deposition monitoring networks in other regions, relevant international/bilateral organizations and research programs, etc. on scientific and technical issues.

#### IX. PROPOSED BUDGET

43. The amount required for the core Network activities was estimated to be approximately USD one million, which includes USD 400,000 to be directly spent by the Secretariat for organization of key EANET meetings such as IG and SAC, and USD 600,000 to be contracted to the Network Center for essential technical activities such as organization of Senior Technical Managers' Meetings, preparation of data reports and key QA/QC activities. It should be noted that these figures would be subject to further review by an Working Group to be renewed or newly set up. The cost estimate of the budget required for the activities directly to be spent by the Secretariat in 2004 is shown in Attachment 1.

44. The annual budget required for the activities of the Network Center in 2004 is estimated as presented in Attachment 2 and 3. The budget in Attachment 2 is divided into two parts, i.e. core budget and additional budget. The core budget describes the cost for providing the minimum basis to be indispensable for promoting the Network activities, such as data management and QA/QC, and will be financed under the contract between Secretariat and NC as the budget from the trust fund established by the Secretariat. The additional budget describes the cost for strengthening the Network activities by providing technical assistance to the participating countries and by promoting further research activities, which may be supported directly by donors or through contracts between the Network Center and relevant organizations.

45. The participating countries are particularly encouraged to support the budget for the Network activities by making cash contribution to the trust fund.

46. The participating countries are also encouraged to support the additional budget for the Network Center by providing cash and/or in-kind contributions to the Network Center activities.



**Attachment 1: Estimated Budget for the Secretariat in 2004**

<i>Items</i>	<b>RRC.AP/AIT Based, 2004 in US \$</b>
<b><i>Personnel Costs</i></b>	<b>116,700</b>
<b><i>Staff</i></b>	
Coordinator (1) (AIT-IA)	60,000
Program Officer (1) (AIT-III)	40,500
Administrative Assistant (1) (AIT-A12)	16,200
<b><i>Rental of premises based on 100 sq. m.</i></b>	<b>30,000</b>
<b><i>Operating Costs</i></b>	<b>185,000</b>
- Reporting and publications of proceedings	8,000
- Stationary	5,000
- Communication facilities	10,000
- Travel of Secretariat staff to meetings	42,000
- Meetings and DSA	120,000
<b><i>Contingency (10%)</i></b>	<b>33,170</b>
<b><i>Overhead (5%)</i></b>	<b>18,244</b>
<b>Total</b>	<b>US\$ 383,114</b>

**Attachment 2: Estimated Budget in 2004 for the Network Center**

Activities	Man/ Month	Estimate (US\$)	Core budget	Additional budget
<b>1. Central compilation, evaluation and storage of data etc.</b>	<b>5</b>	<b>33,000</b>	<b>33,000</b>	
Data verification	4	27,000	27,000	
Maintenance of database	1	6,000	6,000	
<b>2. Preparation of data report</b>	<b>6</b>	<b>38,000</b>	<b>38,000</b>	
<b>3. Dissemination of data and relevant information</b>	<b>3</b>	<b>20,000</b>	<b>20,000</b>	
Analysis on the state of acid deposition in the region	2	14,000	14,000	
Development and updating of EANET website	1	6,000	6,000	
<b>4. Strengthening technical capacity in participating countries</b>	<b>25</b>	<b>315,000</b>	<b>103,000</b>	<b>212,000</b>
Dispatch of technical missions	7	127,000		127,000
STM Meeting	8	103,000	103,000	
Assistance and technical support to individual countries	8	70,000		70,000
Communication/coordination with donor agencies	2	15,000		15,000
<b>5. Implementation and coordination of QA/QC activities</b>	<b>12</b>	<b>87,000</b>	<b>87,000</b>	
Inter-laboratory comparison surveys	8	65,000	65,000	
Individual questions and answers	4	22,000	22,000	
<b>6. Implementation of training activities</b>	<b>25</b>	<b>167,000</b>	<b>6,000</b>	<b>161,000</b>
Development of annual training program	1	6,000	6,000	
Development of training materials, technical documents	7	38,000		38,000
Assistance for national training activities	4	23,000		23,000
Coordination with and support for other training programs	5	23,000		23,000
Individual training at NC	6	65,000		65,000
Communication/coordination with donor agencies	2	12,000		12,000
<b>7. Research activities</b>	<b>20</b>	<b>345,000</b>		<b>345,000</b>
Research for improving monitoring methodologies	7	180,000		180,000
Fellowship	3	35,000		35,000
Joint research with Russia	3	58,000		58,000
Joint research with Thailand	3	38,000		38,000
Other research	4	34,000		34,000
<b>8. Technical support for EANET meetings</b>	<b>21</b>	<b>154,000</b>	<b>154,000</b>	
Preparation of technical documents	9	53,000	53,000	
Attendance to the EANET meetings	3	44,000	44,000	
Support for Task Forces				
Task Force on Dry Deposition Monitoring	3	17,000	17,000	
Task Force on Soil and Vegetation	3	17,000	17,000	
Management of the network on soil/vegetation specialists	1	7,000	7,000	
Other follow-up activities of the meetings	2	16,000	16,000	
<b>9. Other activities</b>	<b>5</b>	<b>80,000</b>		<b>80,000</b>
Raising of public awareness on acid deposition problems				
Development of brochures etc.	2	40,000		40,000
Workshop on exchange of experiences	3	40,000		40,000
<b>10. Administrative works</b>	<b>33</b>	<b>231,000</b>	<b>84,000</b>	<b>147,000</b>
Communication/coordination	14	97,000	36,000	61,000
Management of budget and personal affairs	14	97,000	36,000	61,000
Miscellaneous	5	37,000	12,000	25,000
<b>Subtotal</b>	<b>155</b>	<b>1,470,000</b>	<b>525,000</b>	<b>945,000</b>
<b>11. Overhead (Secretariat: 5 %)</b>			<b>26,250</b>	
<b>Total (core budget: 5 % overhead)</b>			<b>551,250</b>	

(Note) Several staff members are non-reimbursable experts

**Attachment 3: Estimated Budget in 2004 for the Network Center (itemized)**

Unit: US \$

Items	Budget
Salary of staff members	750,000
External consultants/assistants	143,000
Travel costs	165,000
Meetings	168,000
Communication	28,000
Reporting (publication)	25,000
Equipment	100,000
Consumables	80,000
Miscellaneous	11,000
<b>TOTAL</b>	<b>1,470,000</b>