

The Seventh Session of the Intergovernmental Meeting
on Acid Deposition Monitoring Network in East Asia
21-22 November 2005, Niigata, Japan

Report on the Review of the Performance of the Secretariat and the Network Center

I. INTRODUCTION

1. The Fifth Session of the Intergovernmental Meeting (IG5) held in Pattaya, Thailand, November 2003, decided to include the review of performance of the Secretariat and the Network Center (NC) in the Terms of Reference (TOR) of the Working Group on Future Development of EANET (WGFD).

2. The Report on the Review of Performance of the Secretariat and NC was presented and discussed at the Sixth Session of the Intergovernmental Meeting (IG6), the Fourth Session of the Scientific Advisory Committee (SAC4) held in November 2004 in Siem Reap Cambodia and the Second Session of the Working Group on Future Development of EANET (WGFD2) held in Bangkok Thailand in June 2005. Based on the discussion at these meetings, the Secretariat and NC revised the draft report and submitted to the Seventh Session of the Intergovernmental Meeting of EANET (IG7) that will be held in Niigata Japan in November 2005.

II. RECENT PROGRESS OF THE SECRETARIAT AND THE NETWORK CENTER ACTIVITIES

3. The participating countries during IG5 agreed that in order to improve transparency and efficiency, the working procedures shall be established. In accordance with the guidance of IG6, the Secretariat and NC submitted the draft "Guidelines on Administration and Financial Management for the Secretariat and NC" to WGFD2. The revised draft will be submitted to IG7 held in 2005 (EANET/IG 7/4).

4. IG5 endorsed the Memorandum on More Efficient and Transparent Activities of the Network Center (EANET/IG 5/6 Annex 3). In addition to the Deputy Director General in charge of NC, the Acid Deposition and Oxidant Research Center (ADORC) would assign a staff member to be exclusively in-charge of NC activities from 2004, as the first step. The personnel arrangement after 2005 would be further considered, based on the evaluation of the performance of NC in the regular phase.

5. By accumulating experiences, NC is expected to improve its efficiency and reduce the man-months for its core budget activities gradually from 71.8 to 60 in three years, starting with 68 in 2004. According to the "Draft Work Program and Budget in 2006 for EANET (EANET/IG 7/11)" to be submitted to IG7, it is estimated to be less than 60 (man-month) in 2006.

6. Based on the revised “Guidelines for Recruiting the Deputy Director General of the Acid Deposition and Oxidant Research Center in charge of the Network Center of EANET” of Japan Environmental Sanitation Center (JESC) , the recruiting procedure was carried out by JESC as the mother organization of ADORC in cooperation with the Secretariat, and finished in March 2005.

7. NC has been expressing its view that additional staff members from participating countries would be welcomed if sufficient resources are available, or if non-reimbursable experts are seconded by the participating countries. NC expects offers from participating countries to dispatch non-reimbursable experts.

8. It was pointed out by an international organization that joint activities with experts from participating countries, for a certain period (one or two months) are more efficient to improve transparency rather than recruiting a long-term staff in ADORC from participating countries. The possible external support is searched and explored by NC for this purpose.

9. NC applied for Fellowship Program to invite Russian researcher to Japan Society for the Promotion of Science (JSPS) Fellowship Program for Research in Japan (short term) in September 2003. The application was accepted by JSPS. The researcher came to NC in April 2004 to study monitoring methodologies of lichens in East Asia for two months.

10. NC started the procedures to invite some other researchers from the participating countries to ADORC for a short-term (two months) research activities for EANET using the saving of the Secretariat in September 2005. The themes of research would be decided based on their proposal for the research and new Guideline for Fellowship of NC.

(Work Program and Budget of next year and Financial Report of previous year)

11. The Secretariat and NC will implement the activities in the work program of each calendar year of the regular phase of EANET as approved by IG. Both offices collaborates with each other and submit the draft “Work Program and Budget” of next year and “Financial Report” of previous year to WGFD before the sessions of the Intergovernmental Meeting (IG).

12. The Secretariat and NC have developed the draft Work Program and Budget of EANET in 2006 in order to discuss at WGFD2. The document was revised based on the discussion at WGFD2 and the Fifth Session of the Scientific Advisory Committee (SAC5) and will be submitted to IG7.

III. PERFORMANCE REVIEW OF THE SECRETARIAT ACTIVITIES

13. As the Secretariat became fully operational by the end of 2002, it performed the

following functions under the guidance of IG:

- Made the necessary arrangement for the sessions of IG (IG4, IG5, IG6 and IG7); the Scientific Advisory Committee (SAC2, SAC3, SAC4, and SAC5), the Working Group on Further Financial Arrangement for EANET (WG1, WG2, and WG3) and the First and Second Session of the Working Group for Future Development of EANET (WGFD1 and WGFD2) in cooperation with NC and the participating countries.
- Such arrangement included the 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.
- Made administrative and financial arrangement for EANET, such as regular communication with the national focal points, contracting with ADORC for NC activities, promotion of dissemination of information on EANET such as preparation of a newsletter and EANET materials for policy makers, etc.
- Promoted further communication and cooperation with relevant organizations and programs related to acid deposition such as United Nations Economic Commission for Europe (UNECE), Asian Development Bank (ADB), United Nations University/Institute of Advanced Studies (UNU/IAS).

14. The Secretariat assured that the needs of the participating countries, the Scientific Advisory Committee (SAC), IG and NC in acquiring the necessary information related to EANET activities are met as defined by the Secretariat functions. In relation to the above, annual progress reports have been prepared by the Secretariat together with NC and disseminated to all EANET countries including the outcomes of all meetings of EANET.

15. The Secretariat collaborated with NC and provided financial resources for NC activities from established trust fund for EANET as described in the Work Program and Budget in each calendar year.

16. All the Secretariat activities described in the Work Program and Budget in 2002, 2003, and 2004 were sufficiently implemented. In 2002, much of these activities were carried out by the Interim Secretariat and UNEP.RRC.AP, due to the delay of establishment of the Secretariat. Since both the Interim Secretariat and UNEP.RRC.AP did their activities as their voluntary contributions, the expenditures of the Secretariat were much below the budget, which was based on the assumption that the secretariat be established from January 2002. In 2003, the expenditures of the Secretariat were still much below the budget mainly because of the lower expenditures for personnel cost and arrangements for the EANET meetings, all meetings were held in Thailand. In 2004, the Secretariat received a voluntary contribution from the Ministry of Environment, Japan, a total amount of \$290,284 which was indicated in EANET/IG6/7/3/2 as

the total of actual expenditure up to September and remaining estimated expenses for October to December in 2004, but it was found later, that actually the Secretariat had spent \$329,814. This balance amount is filled in with reserved Trust Fund, which was emerged in IG6 (EANET/IG6/9). The balance (remaining amounts) of the Secretariat trust fund in 2002 and 2003 are presented on Table 4 of the Attachment 1. "Detailed Explanation of Planned and Performed Activities and Evaluation of the Secretariat in 2002,2003 and 2004" is attached as Attachment 3.

IV. PERFORMANCE REVIEW OF THE NETWORK CENTER ACTIVITIES

17. ADORC, serving as NC for EANET, has been implementing a number of activities described in the Work Program and Budget every year. NC activities are divided into two parts, i.e. core budget activities and additional budget activities. The core budget activities cover activities for providing the minimum basis to be indispensable for promoting the Network activities, such as data management and QA/QC. The additional budget activities cover activities for strengthening the Network activities by providing technical assistance to the participating countries, such as training, researches and public awareness activities.

18. NC submitted annual progress reports on the following activities to the Secretariat, the Ministry of the Environment, Japan and the relevant organizations in Japan a year thereafter, in accordance with the contracts.

(1) Implementation of the Core Budget Activities

19. NC implemented the following activities that are described as the "core budget activities" in Work Program and Budget in 2002, 2003 and 2004 for EANET.

- Central compilation, evaluation and storage of data, etc.;
- Preparation of data report;
- Dissemination of data and relevant information;
- Organization of the Senior Technical Managers' Meeting (STM);
- Implementation and coordination of QA/QC activities;
- Development of annual training programs;
- Technical support for EANET meetings; and
- Administrative works for the activities above.

(2) Implementation of the Additional Budget Activities

20. NC implemented the following activities that are described as the "additional budget activities" in the Work Program and Budget in 2002, 2003 and 2004 for EANET.

- Technical assistance to the participating countries;
- Training activities (except for development of annual training programs);
- Research activities;
- Other Activities related to EANET including public awareness; and
- Administrative works related to the activities above.

21. Financial resources have been provided by the Ministry of the Environment, Japan through the annual contracts with UNEP RRC.AP and direct support, and by the relevant organizations in Japan. NC was also supported financially by Niigata Prefecture and Niigata City as the host municipalities of NC. Furthermore, several non-reimbursable staff members were dispatched from relevant organizations. Financial issue is described in the document of “Financial Report of the Secretariat and the Network Center in 2004 (EANET/WGFD 2/4/2)”. Financial reports (Fund, etc.) from 2002 to 2004 are attached in this report as Attachment 2.

22. The plan of activities, budget, performed activities and real expenditures are summarized in the Tables “Performance Review of the Network Center Activities in 2002, 2003 and 2004”. (Attachment 2). The actual expenditures in 2002, 2003 and 2004 were slightly below the budgets in both core and additional activities, making them same with the actual revenue to NC. It may need to be noted that NC activities were implemented not only through the core and additional budgets but also voluntary contributions for dispatching ADORC staff and host municipalities contributions, for instance for building maintenance.

23. All of NC activities described in the Work Program and Budget in 2002, 2003 and 2004 were sufficiently implemented. “Detailed Explanation of Planned and Performed Activities and Evaluation of the Network Center Activities in 2002,2003 and 2004” is attached as Attachment 4. Especially Quality Control and Quality Assurance (QA/QC) activity, research activity and transparency and efficiency of the Secretariat and NC should be further promoted.

V. TIMETABLE OF SUBMISSION OF THE REPORT TO IG

24. In order to review the performance of the Secretariat and NC activities, the following timetable was suggested and fulfilled.

- Review of the Performance of the Secretariat and NC for preparation of the interim report to IG for its guidance - 2004
- Preparation of the final report on review of performance for submission to IG7 – 2005

Attachment 1

Table 1- Performance Review of the Secretariat Activities in 2002

Planned Activities	<u>Proposed Budget in 2002 (US \$)</u>	Performed Activities	Expenditures in 2002 (US \$)
1. Recruitment of Staff	71,350.00 (personnel cost)	- Issued vacancy announcement for Secretariat staff; - Prepared short list of candidates; - Convened selection committee; - Hired staff of Secretariat; - Arranged for signing of the Framework on the Establishments of Secretariat; and - Performed Secretariat functions.	12,674.99
2. Maintain office of the Secretariat (Rental of premises as per Contract)	30,000.00	Made rental of premises in the AIT Outreach Bldg. as office of the Secretariat	30,000.00
3. Fix Furniture	9,000.00	Purchased furniture including cabinets, tables, chairs and fixed office partitions	9,0732.82
4. Purchase equipment of Secretariat	31,000.00	Purchased computers, fax machine, laser jet printer, and compaq pentium processor	30,583.11
5. Preparation of proceedings and reporting	5,000.00	Prepared proceedings and summaries of WG1.	29.42
6. Purchase of office supplies	3,000.00	Purchased office supplies.	1,123.80
7. Communication with participating countries, NC and relevant organizations	10,000.00	Communicated with participating countries, NC and other relevant organizations.	417.51
8. Participation of EANET Staff to meetings	30,000.00	The staff participated in Workshop on Elaboration and Development of Forest Monitoring in East Asia, Seremban, Malaysia and STM3 in Niigata, Japan.	2,708.42
9. Make arrangement for Meetings	149,760.00	Made necessary arrangement for WG1, SAC2 and IG4	32,828.92
- First Working Group Meeting on Future Development of EANET (WG1)		Made arrangement for WG1 in AIT, Thailand. Expenses included PTA tickets, DSA, cost for logistic services, conference venue, etc.	15,376.93
- Fourth Session of IG (IG4) and Second Session of SAC (SAC2)		Made necessary arrangement for SAC2 and IG4 in AIT, Thailand. Expenses included PTA tickets, DSA and cost for logistic services, conference venue, etc.	17,451.99
Contingency (10%)	33,911.00		-
Overhead (5%)	16,955.50		16,955.50
Total	389,976.50		136,395.49

Note: The Secretariat was able to save money in 2002 for the following reasons, among others: charges to personnel costs delayed due to late recruitment of personnel by 10 months and meeting costs were lower due to the in-kind contribution made by the Secretariat. The activities are accomplished as planned. The contribution received is the same as budget, so that there remained \$ 253,581.

Table 2 - Performance Review of the Secretariat activities in 2003

Planned Activities	<u>Proposed Budget in 2003</u> (US \$)	Performed Activities	Expenditures in 2003 (US \$)
1. Perform Secretariat function	126,700.00 (personnel cost)	- Made administrative and financial arrangement for EANET; - Contracted with Ministry of Environment, Japan and NC for the budget in 2004; - Collaborated with NC in updating the EANET website; - Prepared correspondence and meeting documents; and performed secretariat functions.	76,518
2. Maintain office of the Secretariat (Rental of premises as per Contract).	30,000.00	Made rental of premises in the AIT Outreach Bldg. as office of the Secretariat.	30,000.00
3. Preparation of proceedings and reporting	5,000.00	Prepared proceedings and summaries of WG2, WG3, SAC2 and IG5	4,204.00
4. Purchasing of office supplies	3,000.00	Purchased office supplies.	1,802.00
5. Communication with participating countries, NC and other relevant organizations	10,000.00	Communicated with participating countries, NC and other relevant organizations.	3,934.00
6. Participation of EANET staff to meetings/workshops.	34,000.00	The staff participated in Public Awareness Workshop and STM4 in Niigata, Japan, joined NC during Technical Mission in Cambodia, and Better Air Quality 2003 Workshop in Philippines	9,606.00
7. Make arrangement for Meetings	150,000.00	Made necessary arrangement for WG2, WG3, SAC2 and IG4 in Thailand	56,696.00
- Second Working Group and Third Working Group Meetings		- Expenses include PTA tickets, DSA, logistic services, conference venue, etc.	16,815.00
- Third Session of SAC and Fifth Session of IG		- Expenses include PTA tickets, DSA, logistic services, conference venue, etc.	31,477.00
- SAC2 and IG4 (remaining expenditures, recorded only in 2003)		SAC2 and IG4 were held in 2002 but the expenses were recorded in 2003 only.	8,404.00
Contingency (10%)	35,870.00		-
Overhead (5%)	19,728.50		19,728.50
Total	414,298.50		202,488.50

Note: Some of the expenditures incurred in 2003 could not be recorded in the fiscal year 2003; consequently, those expenditures will be reflected in the fiscal year 2004. The contribution received is the same as budget, so that there remained \$ 211,810.

Table 3 - Performance Review of the Secretariat activities in 2004

Planned Activities	<u>Proposed Budget in 2004 (US \$)</u>	Performed Activities	Expenditures in 2004 (US \$)
1. Perform Secretariat function	116,700	- Made administrative and financial arrangement for EANET; - Contracted with Ministry of Environment, Japan and NC for the budget in 2005; - Collaborated with NC in EANET activities - Prepared meeting documents; and performed secretariat functions.	85,311
2. Maintain office of the Secretariat (Rental of premises)	30,000	Made rental of premises in the AIT Outreach Bldg. as office of the Secretariat.	30,000
3. Preparation of proceedings and reporting	8,000	Prepared proceedings and summaries of WG2, WG3, SAC2 and IG5	3,927
4. Purchase office supplies	5,000	Purchased office supplies.	648
5. Communication with participating countries, NC and other relevant organizations	10,000	Communicated with participating countries, NC and other relevant organizations.	4,729
6. Participation of EANET staff to meetings/workshops.	42,000	The staff participated in Public Awareness Workshop and STM5 in Niigata, Japan, as well as related workshops and meetings	29,114
7. Make arrangement for Meetings	120,000	Made necessary arrangement for WGFD1, SAC4 and IG6	151,307
- First Session of the Working Group on Future Development of EANET (WGFD1)		- Expenses include PTA tickets, DSA, logistic services, conference venue, etc.	29,582
-SAC4 and IG6		- Expenses include PTA tickets, DSA, logistic services, venue, etc.	94,621
Part of expenses incurred in SAC3 and IG5 in 2003 wherein expenses were only reflected in 2004		- Expenses include PTA tickets, DSA, logistic services, conference venue, etc.	27,104
Miscellaneous	33,170		10,955
Overhead (5%)	18,244		13,823
Total	383,114		329,814

Note: In the approved Work Program and Budget, Secretariat's budget was \$ 383,114. However, contribution received has a total amount of \$290,284. It resulted to total deficit balance of \$39,530.

Table 4- Balance/Remaining Budget of the Secretariat in 2002 and 2003

Item	Amount in US \$
1) Balance in 2002	253,581
2) Balance in 2003	211,810
Total	465,391

The saving money is schedule to be spent for related activities, which were presented in IG6/9(rev 2) and decided in IG6.

Attachment 2

**Table 1. Performance Review of the Network Center Activities in 2002
(Core budget activities)**

Plan of Activities	Budget (2002) (US\$)			Performed Activities	Expenditures (2002) (US\$)		
	Direct Exp.	Personnel Exp.	Total		Direct Exp.	Personnel Exp.	Total
1. Central compilation, evaluation and storage of data etc.	0	25,000	25,000		13,740	18,008	31,748
- Data verification	0	21,000	21,000	- Submission of 2001 data to NC. - Compilation, evaluation and storage of data by NC.	12,671	14,406	27,077
- Maintenance of database	0	4,000	4,000	- Improvement of the database. by NC	1,069	3,602	4,671
2. Preparation of data report	0	35,000	35,000	- Issuing of Data Report 2000. - Finalizing of Data Report 2001.	8,847	18,008	26,855
3. Dissemination of data and relevant information	5,000	15,000	20,000		5,059	10,805	15,864
- Analysis on the state of acid deposition in the region	5,000	10,000	15,000	- Dissemination of relevant scientific and technical information.	3,373	7,203	10,576
- Development and updating of EANET website	0	5,000	5,000	- Revision of EANET web site.	1,686	3,602	5,288
5. Implementation and coordination of QA/QC activities	99,000	101,000	200,000		117,161	68,430	185,591
- Inter-laboratory comparison survey	33,000	17,000	50,000	- Implementation of Inter-laboratory comparison projects.	19,056	10,805	29,861
- Individual questions and answers	8,000	22,000	30,000	- Implementation of a questionnaire survey on QA/QC activities.	30,708	18,008	48,716
- Third STM meeting (STM3)	55,000	45,000	100,000	- Holding of STM3, development of the proceedings.	48,341	28,812	77,153
- Preparation of QA/QC report	3,000	17,000	20,000	- Provision of QA/QC reports.	19,056	10,805	29,861
6. Development / implementation of training programs	1,000	4,000	5,000		1,098	3,602	4,700
- Development of annual training program	1,000	4,000	5,000	- Development of annual training program on individual training.	1,098	3,602	4,700
8. Technical support for EANET meetings	60,000	100,000	160,000		55,878	68,430	124,308
- Preparation of technical documents	26,000	44,000	70,000	- Preparation of meeting documents relevant to technical issues.	9,625	32,413	42,038
- Attendance to the EANET meetings	16,000	14,000	30,000	- Attendance to IG/SAC/WG meetings.	21,956	10,805	32,761
- Support for Task Forces (1) Task Force on Dry Deposition Monitoring	6,000	14,000	20,000	- Preparation of a preliminary draft of the "Technical Document for Filter Pack monitoring.	6,944	7,203	14,147
(2) Task Force on Soil and Vegetation Monitoring	6,000	14,000	20,000	- Preparation of draft of the "Strategy Paper for Future Direction of Soil and Vegetation Monitoring"	8,454	10,805	19,259
- Management of the network on soil/vegetation specialists	6,000	14,000	20,000	- Dissemination of the information relevant to soil/vegetation monitoring.	3,242	3,602	6,844
- Other follow-up activities of the meetings				- Attendance to UNEP RRC.AP CAN meeting, etc.	5,657	3,602	9,259
10. Administrative works	15,140	79,860	95,000		29,809	75,631	105,440
- Communication/coordination	5,960	34,040	40,000	- Communication with relevant organizations.	12,778	32,413	45,191
- Management of budget and personal affairs	5,960	34,040	40,000	- Management of budget and personal affairs	12,778	32,413	45,191
- Miscellaneous	3,220	11,780	15,000	- Miscellaneous expenses.	4,253	10,805	15,058
Total	180,140	359,860	540,000	Total	231,592	262,914	494,506

Note: The number of each activity is the same with the number described in "The Work Program and Budget in 2002". The total amount of expenditures is the same as the revenue of the year.

**Table 2. Performance Review of the Network Center Activities in 2002
(Additional budget activities)**

Plan of Activities	Budget (2002) (US\$)			Performed Activities	Expenditures (2002) (US\$)		
	Direct Exp.	Personnel Exp.	Total		Direct Exp.	Personnel Exp.	Total
4. Technical assistance to participating countries	115,000	95,000	210,000		106,362	50,161	156,523
- Dispatch of technical missions	62,000	38,000	100,000	- Dispatched NC mission to eight participating countries.	69,993	21,497	91,490
- Assistance to individual countries	49,000	51,000	100,000	- Provision of technical and financial support to the participating countries.	18,165	14,332	32,497
- Communication/coordination with donor agencies	4,000	6,000	10,000	- Communication/coordination with donor agencies, such as EMEP, WMO.	18,204	14,332	32,536
6. Development/implementation of training programs	63,000	97,000	160,000		38,867	50,161	89,028
- Development of training materials, technical documents	10,000	30,000	40,000	- Preparation of "Fundamental Methodology for Wet Deposition Monitoring", etc.	3,139	7,166	10,305
- Assistance for national training activities	14,000	16,000	30,000	- Dispatch of experts to China, etc.	2,139	7,166	9,305
- Coordination with and support for other training programs	14,000	16,000	30,000	- Support of JICA training course.	4,272	7,166	11,438
- Training of individuals at NC	9,000	31,000	40,000	- Individual training at NC for 6 trainees.	28,248	25,080	53,328
- Communication/coordination with donor agencies	16,000	4,000	20,000	- Dissemination of relevant information.	1,069	3,583	4,652
7. Research activities	183,000	152,000	335,000		294,983	77,032	372,015
- Fellowship	27,200	22,800	50,000	- Submission of the application to "JSPS".	1,516	3,583	5,099
- Joint seminar on soil/vegetation monitoring	42,000	38,000	80,000	- Joint workshop on soil vegetation monitoring with the ICP Forests.	29,926	10,749	40,675
- Research for improving monitoring methodologies	29,400	45,600	75,000	- Research in the small catchment area, etc.	174,003	23,288	197,291
- Joint research with Russia	77,200	22,800	100,000	- Joint research on the monitoring methodology.	53,108	7,166	60,274
- International research for dry deposition monitoring	7,200	22,800	30,000	- Joint research with Thailand. On dry deposition flux.	12,812	10,749	23,561
- Other research				- Joint research with Mongolia etc.	23,618	21,497	45,115
9. Other activities	60,000	30,000	90,000		110,870	14,332	125,202
- Raising of public awareness on acid deposition problems	60,000	30,000	90,000	- Development of a brochure on acid deposition, Workshop on Public Awareness.	110,870	14,332	125,202
10. Administrative works	24,860	140,140	165,000		22,243	66,281	88,524
- Communication/coordination	10,040	59,960	70,000	- Communication with relevant organizations.	9,611	28,662	38,273
- Management of budget and personal affairs	10,040	59,960	70,000	- Management of budget and personal affairs	9,611	28,662	38,273
- Miscellaneous	4,780	20,220	25,000	- Miscellaneous expenses.	3,021	8,957	11,978
Total	445,860	514,140	960,000	Total	573,325	257,967	831,292

Note: The number of each activity is the same with the number described in the Attachment 2 of "The Work Program and Budget in 2002" (EANET/IG 3/10/1 rev.). The total amount of expenditures is the same as the revenue of the year.

**Table 3. Performance Review of the Network Center Activities in 2003
(Core budget activities)**

Plan of Activities	Budget (2003) (US\$)			Performed Activities	Expenditures (2003) (US\$)		
	Direct Exp.	Personnel Exp.	Total		Direct Exp.	Personnel Exp.	Total
1. Central compilation, evaluation and storage of data etc.	0	30,000	30,000		12,713	16,910	29,623
- Data verification	0	24,000	24,000	- Submission of 2002 data to NC. - Compilation, evaluation and storage of data by NC.	11,964	13,528	25,492
- Maintenance of database	0	6,000	6,000	- Improvement of the database. by NC	749	3,382	4,131
2. Preparation of data report	0	36,000	36,000	- Issuing of Data Report 2001. - Finalizing of Data Report 2002.	4,622	20,292	24,914
3. Dissemination of data and relevant information	3,000	15,000	18,000		4,868	10,146	15,014
- Analysis on the state of acid deposition in the region	3,000	9,000	12,000	- Dissemination of relevant scientific/technical information.	1,498	6,764	8,262
- Development and updating of EANET website	0	6,000	6,000	- Revision of EANET web site.	3,370	3,382	6,752
4. Strengthening technical capacity in participating countries	53,000	50,000	103,000		57,488	27,056	84,544
- Fourth STM meeting (STM4)	53,000	50,000	103,000	- Holding of STM4, development of the Proceedings.	57,488	27,056	84,544
5. Implementation and coordination of QA/QC activities	44,000	54,000	98,000		27,271	43,966	71,237
- Inter-laboratory comparison surveys	38,000	32,000	70,000	- Implementation of Inter-laboratory comparison projects.	21,151	27,056	48,207
- Individual questions and answers	6,000	22,000	28,000	- Implementation of a questionnaire survey on QA/QC activities.	6,120	16,910	23,030
6. Implementation of training activities	2,000	4,000	6,000		748	3,382	4,130
- Development of annual training program	2,000	4,000	6,000	- Development of annual training program on individual training.	748	3,382	4,130
8. Technical support for EANET meetings	61,000	100,000	161,000		75,855	77,785	153,640
- Preparation of technical documents	6,000	44,000	50,000	- Preparation of meeting documents relevant to technical issues.	6,739	30,437	37,176
- Attendance at the EANET meetings	18,000	22,000	40,000	- Attendance to IG/SAC/WG meetings.	35,838	10,146	45,984
- Support for Task Forces (1) Task Force on Dry Deposition Monitoring	7,000	10,000	17,000	- Preparation of the final draft of the "Technical Document for Filter Pack monitoring.	4,619	10,146	14,765
(2) Task Force on Soil and Vegetation Monitoring	14,000	10,000	24,000	- Printing of the "Strategy Paper for Future Direction of Soil and Vegetation - Monitoring" and distribution.	18,198	13,528	31,726
- Management of the network on soil/vegetation specialists	3,000	10,000	13,000	- Dissemination of the information relevant to soil/vegetation monitoring.	6,862	6,764	13,626
- Other follow-up activities of the meetings	13,000	4,000	17,000	- Attendance to UNEP RRC.AP CAN meeting, etc. Dissemination of the relevant information.	3,599	6,764	10,363
10. Administrative works	15,000	80,000	95,000		14,931	43,966	58,897
- Communication/coordination	6,000	34,000	40,000	- Communication with relevant organizations.	9,081	18,601	27,682
- Management of budget and personnel	6,000	34,000	40,000	- Management of budget and personal affairs	4,353	18,601	22,954
- Miscellaneous	3,000	12,000	15,000	- Miscellaneous expenses.	1,497	6,764	8,261
Total	178,000	369,000	547,000	Total	198,496	243,503	441,999

Note: The number of each activity is the same with the number described in the Attachment 2 of "The Work Program and Budget in 2003" (EANET/IG 4/8). The total amount of expenditures is the same as the revenue of the year.

**Table 4. Performance Review of the Network Center Activities in 2003
(Additional budget activities)**

Plan of Activities	Budget (2003) (US\$)			Performed Activities	Expenditures (2003) (US\$)		
	Direct Exp.	Personnel Exp.	Total		Direct Exp.	Personnel Exp.	Total
4. Strengthening technical capacity in the participating countries	95,000	117,000	212,000		95,913	57,494	153,407
- Dispatch of technical missions	68,000	60,000	128,000	- Dispatched NC mission to ten participating countries.	75,514	23,674	99,188
- Assistance and technical support to individual countries	18,000	51,000	69,000	- Provision of technical and financial support to the participating countries.	14,192	27,056	41,248
- Communication/coordination with donor agencies	9,000	6,000	15,000	- Communication/coordination with donor agencies, such as EMEP, WMO.	6,207	6,764	12,971
6. Implementation of training activities	57,000	104,000	161,000		45,680	81,168	126,848
- Development of training materials, technical documents	14,000	27,000	41,000	- Development of the textbook on "Procedures for Data Management", etc.	9,575	23,674	33,249
- Assistance for national training activities	13,000	10,000	23,000	- Dispatch of experts to China, Indonesia, etc.	4,956	13,528	18,484
- Coordination with and support to other training programs	18,000	10,000	28,000	- Support of JICA training course.	5,497	16,910	22,407
- Individual training at NC	4,000	53,000	57,000	- Individual training at NC for 5 trainees.	24,157	20,292	44,449
- Communication/coordination with donor agencies	8,000	4,000	12,000	- Dissemination of relevant information.	1,495	6,764	8,259
7. Research activities	221,000	114,000	335,000		162,466	67,640	230,106
- Research for improving monitoring methodologies	122,000	60,000	182,000	- Implementation of research on applicability of 4-stage filter pack method, etc.	106,275	23,674	129,949
- Fellowship	25,000	5,000	30,000	- Application to Japanese fellowship program "JSPS" for Russian researcher.	2,244	10,146	12,390
- Joint research with Russia	40,000	20,000	60,000	- Joint research on the monitoring methodology.	44,244	10,146	54,390
- Joint research with Thailand	18,000	20,000	38,000	- Joint research project on dry deposition flux.	4,138	10,146	14,284
- Other research	16,000	9,000	25,000	- Joint research with Mongolia, etc.	5,565	13,528	19,093
9. Other activities	50,000	30,000	80,000		101,618	16,910	118,528
- Raising of public awareness on acid deposition problems	50,000	30,000	80,000	- Development of a brochure on acid deposition, Workshop on Public Awareness.	101,618	16,910	118,528
10. Administrative works	25,000	140,000	165,000		25,298	74,403	99,701
- Communication/coordination	10,000	60,000	70,000	- Communication with relevant organizations.	15,664	32,129	47,793
- Management of budget and personnel	10,000	60,000	70,000	- Management of budget and personal affairs	7,391	32,129	39,520
- Miscellaneous	5,000	20,000	25,000	- Miscellaneous expenses.	2,243	10,145	12,388
Total	448,000	505,000	953,000	Total	430,975	297,615	728,590

Note: The number of each activity is the same with the number described in the Attachment 2 of "The Work Program and Budget in 2003" (EANET/IG 4/8). The total amount of expenditures is the same as the revenue of the year.

**Table 5. Performance Review of the Network Center Activities in 2004
(Core budget activities)**

Plan of Activities	Budget (2004) (US\$)			Performed Activities	Expenditures (2004) (US\$)		
	Direct Exp.	Personnel Exp.	Total		Direct Exp.	Personnel Exp.	Total
1. Central compilation, evaluation and storage of data etc.	15,000	18,000	33,000		15,163	17,506	32,669
- Data verification	12,000	15,000	27,000	- Submission of 2003 data to NC. - Compilation, evaluation and storage of data by NC.	14,115	14,005	28,120
- Maintenance of database	3,000	3,000	6,000	- Improvement of the database. by NC	1,048	3,501	4,549
2. Preparation of data report	13,000	25,000	38,000		8,902	21,007	29,909
				- Issuing of Data Report 2002. - Finalizing of Data Report 2003.			
3. Dissemination of data and relevant information	7,000	13,000	20,000		5,000	10,503	15,503
- Analysis on the state of acid deposition in the region	5,000	9,000	14,000	- Dissemination of relevant scientific/technical information.	2,096	7,002	9,098
- Development and updating of EANET website	2,000	4,000	6,000	- Revision of EANET web site.	2,904	3,501	6,405
4. Strengthening technical capacity in participating countries	58,000	45,000	103,000		58,591	28,010	86,601
- Fourth STM meeting (STM5)	58,000	45,000	103,000	- Holding of STM5, development of the Proceedings.	58,591	28,010	86,601
5. Implementation and coordination of QA/QC activities	47,000	40,000	87,000		27,444	42,017	69,461
- Inter-laboratory comparison surveys	41,000	24,000	65,000	- Implementation of Inter-laboratory comparison projects.	21,423	28,011	49,434
- Individual questions and answers	6,000	16,000	22,000	- Implementation of a questionnaire survey on QA/QC activities.	6,021	14,006	20,027
6. Implementation of training activities	2,000	4,000	6,000		1,049	3,502	4,551
- Development of annual training program	2,000	4,000	6,000	- Development of annual training program on individual training.	1,049	3,502	4,551
8. Technical support for EANET meetings	82,000	72,000	154,000		66,726	73,523	140,249
- Preparation of technical documents	23,000	30,000	53,000	- Preparation of meeting documents relevant to technical issues.	9,433	31,511	40,944
- Attendance at the EANET meetings	32,000	12,000	44,000	- Attendance to IG/SAC/WGFD meetings.	32,785	10,503	43,288
- Support for Task Forces (1) Task Force on Dry Deposition Monitoring	9,000	8,000	17,000	- Publication of the "Technical Document for Filter Pack monitoring in East Asia"	3,687	10,503	14,190
(2) Task Force on Soil and Vegetation Monitoring	9,000	8,000	17,000	- Sending "Contents and authors for the sub-manual on forest monitoring in East Asia (Preliminary draft)" for the comments.	7,368	10,503	17,871
- Management of the network on soil/vegetation specialists	1,000	6,000	7,000	- Dissemination of the information relevant to soil/vegetation monitoring.	3,549	3,501	7,050
- Other follow-up activities of the meetings	8,000	8,000	16,000	- Attendance to UNEP RRC.AP CAN meeting, etc. Dissemination of the relevant information.	9,904	7,002	16,906
10. Administrative works	26,000	58,000	83,000		12,942	42,016	54,958
- Communication/coordination	9,000	25,000	34,000	- Communication with relevant organizations.	5,604	17,507	23,111
- Management of budget and personnel	9,000	25,000	34,000	- Management of budget and personal affairs, carrying out of recruiting procedures	5,241	17,507	22,748
- Miscellaneous	8,000	8,000	15,000	- Miscellaneous expenses.	2,097	7,002	9,099
Total	250,000	275,000	525,000	Total	195,817	238,084	433,901

Note: The number of each activity is the same with the number described in the Attachment 2 of "The Work Program and Budget in 2004" (EANET/IG 5/8). The total amount of expenditures is the same as the revenue of the year.

**Table 6. Performance Review of the Network Center Activities in 2004
(Additional budget activities)**

Plan of Activities	Budget (2004) (US\$)			Performed Activities	Expenditures (2004) (US\$)		
	Direct Exp.	Personnel Exp.	Total		Direct Exp.	Personnel Exp.	Total
4. Strengthening technical capacity in the participating countries	122,000	90,000	212,000		105,200	59,521	164,721
- Dispatch of technical missions	82,000	45,000	127,000	- Dispatched NC mission to eleven participating countries.	66,977	24,509	91,486
- Assistance and technical support to individual countries	35,000	35,000	70,000	- Provision of technical and financial support to the participating countries.	23,959	28,010	51,969
- Communication/coordination with donor agencies	5,000	10,000	15,000	- Communication/coordination with donor agencies, such as EMEP, WMO.	14,264	7,002	21,266
6. Implementation of training activities	78,000	83,000	161,000		59,051	84,032	143,083
- Development of training materials, technical documents	18,000	20,000	38,000	- Development of the textbook on ““Fundamental Methodology for Wet Deposition Monitoring ”, etc.	13,544	24,509	38,053
- Assistance for national training activities	13,000	10,000	23,000	- Dispatch of experts to China, etc.	5,507	14,005	19,512
- Coordination with and support to other training programs	13,000	10,000	23,000	- Support of JICA training course.	6,491	17,507	23,998
- Individual training at NC	30,000	35,000	65,000	- Individual training at NC for 5 trainees.	31,413	21,008	52,421
- Communication/coordination with donor agencies	4,000	8,000	12,000	- Dissemination of relevant information.	2,096	7,003	9,099
7. Research activities	199,000	146,000	345,000		132,733	70,027	202,760
- Research for improving monitoring methodologies	114,000	66,000	180,000	- Implementation of research on catchment study and 4-stage filter pack method, etc.	34,579	24,510	59,089
- Fellowship	5,000	30,000	35,000	- Studying monitoring methodology by Russian researcher with support of JSPS	4,711	10,504	15,215
- Joint research with Russia	38,000	20,000	58,000	- Joint research on the monitoring methodology.	48,818	10,504	59,322
- Joint research with Thailand	18,000	20,000	38,000	- Joint research project on dry deposition flux.	26,762	10,504	37,266
- Other research	24,000	10,000	34,000	- Joint research with Mongolia, etc.	17,863	14,005	31,868
9. Other activities	26,000	54,000	80,000		49,221	17,507	66,728
- Raising of public awareness on acid deposition problems	26,000	54,000	80,000	- Development of a brochure on acid deposition, Workshop on Public Awareness.	49,221	17,507	66,728
10. Administrative works	45,000	102,000	147,000		24,713	73,528	98,241
- Communication/coordination	18,000	45,000	63,000	- Communication with relevant organizations.	10,424	31,512	41,936
- Management of budget and personnel	18,000	45,000	63,000	- Management of budget and personal affairs carrying out of including recruiting procedure of DDG in charge of NC.	11,145	31,512	42,657
- Miscellaneous	9,000	12,000	21,000	- Miscellaneous expenses.	3,144	10,504	13,648
Total	470,000	475,000	945,000	Total	370,918	304,615	675,533

Note: The number of each activity is the same with the number described in the Attachment 2 of “The Work Program and Budget in 2004” (EANET/IG 5/8). The total amount of expenditures is the same as the revenue of the year.

Attachment 3

**Detailed Explanation of Planned and Performed Activities and Evaluation of
the Secretariat Activities in 2002, 2003 and 2004**

1. Recruitment of Staff

Plan

To ensure that the basic core functions of the secretariat were operational by January 2002 the following activities were proposed: UNEP.RRC.AP provide office space and recruit the administrative assistant by January 2002. It was proposed that UNEP makes the necessary announcements for the Coordinator and Programme Officer. Targeting January 2002 as the start date for the Secretariat staff, UNEP will have to assign a temporary staff to take over the functions/duties while the processing/interview of the applicants for the shortlist is being done. By mid week of March 2002, the shortlist of applicants should be prepared and by mid week of April 2002, the final interview and selection of the qualified candidates will be done. It was expected that by early May 2002, all of the Staff will be in place.

Performance

UNEP. RRC.AP issued the vacancy announcement for EANET Secretariat staff in early January 2002. Based on the procedures in the guidelines developed by Interim Secretariat (IS) and from among the list of all applicants (long list), UNEP prepared the short list of selected candidates and submitted the short list with CVs of candidates as well as the long list to IS. IS then sent the information in March 2002 to the participating countries for their comments if any. RRCAP convened the selection committee in May 2002 to finalize the candidates for the EANET Secretariat staff. No objections on final candidates were provided from the participating countries. Because the final candidate for the Coordinator of the Secretariat became unable to take the job due to unpredictable reasons, UNEP hold the selection committee again and selected the new final candidate for the Coordinator. UNEP RRC.AP appointed the EANET Secretariat staff as follows:

Coordinator	Mr. Jiang Wei, China
Program Officer	Ms. Adelaida Bonquin Roman, Philippines
Administrative Assistant	Ms. Sumana Ratanasawetwad, Thailand

Ms. Sumana Ratanasawetwad and Ms. Adelaida Bonquin Roman started their works for the EANET Secretariat from June 2002 and October 2002 respectively. Mr. Jing Wei started to work in January 2003.

2.) Maintain office of the Secretariat including fixing of furniture and purchased of equipment.

Plan

The Secretariat will be housed in the office of the UNEP RRC.AP in AIT.

Performance

The Secretariat made rental of office in the AIT Outreach Bldg. in 2002 , 2003 and 2004 and purchased 3 computers of the staff, fax machine, laser jet printer, Pentium processor, furniture and fixtures.

3) Made the necessary arrangement for meetings including preparation of proceedings and reporting.

Plan

The Secretariat will make necessary arrangement for the session of the Intergovernmental Meetings (IG), Scientific Advisory Committee (SAC) and Working Group (WG) on Further Financial Arrangement in cooperation with NC 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.

Performance

Based on the discussion at IG3 in 2001, the Secretariat made necessary arrangement for the First Session of the Working Group on Further Arrangement for EANET which was held in July 2002 in Bangkok, The Session adopted the Terms of Reference (TOR) of the Working Group including its tentative schedule, the Outline for the Preliminary Paper on Further Financial Arrangement for EANET and the Concept on Various Options on EANET financial arrangement.

The Second Session of the Working Group on Further Financial Arrangement for EANET (WG2) was held on 11-12 August 2003 in AIT, Pathumthani, Thailand. The Third Session of the Working Group (WG3) on Financial Arrangement for EANET was held in AIT, Pathumthani, Thailand on 9-10 October 2003.

The Secretariat made the arrangements for the Second Session of the Scientific Advisory Committee (SAC2) and the Fourth Session of the Intergovernmental Meeting (IG4) which were held in 25-27 November 2002 and 28-29 November 2002 in Pathumthani, Thailand. Similarly, the Secretariat made necessary arrangements for SAC3 and IG5 in Pattaya, Thailand on 24-26 November 2003 and 27-28 November 2003, respectively. All the above-mentioned meetings were held in Thailand, in which case, expenses were low due to in-kind contribution by the Secretariat. In 2004, the Secretariat made arrangement for WGFD1, SAC4 and IG6.

Proceedings and summaries of all the meetings of EANET arranged by the Secretariat in 2002 and 2003 were published and distributed to all National Focal Points, SAC members and participants of the meetings. Publications of Proceedings and Summaries of the following meetings were completed and distributed to the participating countries and participants of the sessions in 2004: The First Session of the Working Group on Future Development of EANET (WGFD1); The Fifth Senior Technical Managers' Meeting (STM5); and The Fifth Workshop on Public Awareness for Acid Deposition Problems (WSPA5)

4) Communication with the participating countries and attendance to meetings of EANET

Plan

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. The Secretariat will attend meetings of EANET and related meetings.

Performance

The secretariat prepared contracts for signing with the donor agency. 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 an agreement regarding the Japanese contribution in 2002, 2003, and 2004 for the EANET activities; including both the Secretariat and NC budget. Similarly, the Japan Environmental Sanitation Center (JESC) and the UNEP RRC.AP finalized Agreements for the transfer of budget for the implementation of NC core activities and additional budget activities in 2002, 2003 and 2004

In 2002, 2003 and 2004 the Secretariat communicated with participating countries to ask their willingness to host IG and SAC meetings.

Following the decision at IG5, the Secretariat and NC prepared the information materials/awareness for EANET such as: EANET Paper to brief high level policy makers and EANET Newsletter, in order to disseminate major outcomes of recent EANET activities.

Attachment 4

**Detailed Explanation of Planned and Performed Activities and Evaluation
of the Network Center Activities in 2002, 2003 and 2004**

Detailed explanation of planned activities, performed activities and evaluation of following NC activities in 2002, 2003 and 2004 are as follows; NC budgets and real expenditures are described in Attachment 2.

NC Activities (Core Budget Activities and Additional Budget Activities)

1. Central compilation, evaluation and storage of data etc.*

- 1-1 Data verification
- 1-2 Maintenance of database

2. Preparation of data report*

3. Dissemination of data and relevant information*

- 3-1 Analysis on the state of acid deposition in the region
- 3-2 Development and updating of EANET website

4. Strengthening technical capacity in participating countries

- 4-1 Dispatch of technical missions
- 4-2 Senior Technical Managers' (STM) Meeting*
- 4-3 Assistance and technical support to individual countries
- 4-4 Communication/coordination with donor agencies

5. Implementation and coordination of QA/QC activities*

- 5-1 Inter-laboratory comparison surveys
- 5-2 Individual questions and answers

6. Implementation of training activities

- 6-1 Development of annual training program*
- 6-2 Development of training materials and technical documents
- 6-3 Assistance for national training activities
- 6-4 Coordination with and support for other training programs
- 6-5 Individual training at NC
- 6-6 Communication/coordination with donor agencies

7. Research activities

- 7-1 Research for improving monitoring methodologies
- 7-2 Joint workshop on soil/vegetation monitoring in 2002
- 7-3 Fellowship
- 7-4 Joint research with Russia
- 7-5 Joint research with Thailand
- 7-6 Joint research with Mongolia
- 7-7 Other research

8. Technical support for EANET meetings*

- 8-1 Preparation of technical documents
- 8-2 Attendance to the EANET meetings
- 8-3 Support for Task Forces
 - 8-3-1 Task Force on Dry Deposition Monitoring
 - 8-3-2 Task Force on Soil and Vegetation Monitoring
 - 8-3-3 Management of the network on soil/vegetation specialists
- 8-4 Other follow-up activities of the meetings

9. Other activities

- 9-1 Raising of public awareness on acid deposition problems
 - 9-1-1 Development of brochures etc.
 - 9-1-2 Workshop on exchange of experiences

10. Administrative works*

- 10-1 Communication and coordination
- 10-2 Management of personnel affairs
- 10-3 Miscellaneous

Note: *--Core Budget Activities (Administrative works belong to the both activities.)

1. CENTRAL COMPILATION, EVALUATION AND STORAGE OF DATA

1-1/2. Data Verification/Maintenance of database

Plan: NC compiles, evaluates and stores the monitoring data in 2001, 2002 and 2003 obtained through the EANET activities. Special attention is paid to the QA/QC activities in the participating countries and data verification, and therefore, the data verification group in NC reviews the data for verification purpose.

Performance: The participating countries have submitted the 2001/2002/2003 monitoring data and related information in 2001/2002/2003 obtained through EANET activities to NC. NC compiled, checked, evaluated and stored these data on the database of all the EANET data, and

implemented maintenance of the database as planned.

Evaluation: All of the planned activities were carried out by NC as planned.

2. PREPARATION OF DATA REPORT

Plan: NC prepares the data report in 2001, 2002 and 2003, based on the data submitted by the participating countries. The draft data report in 2001/2002/2003 are distributed among the Scientific Advisory Committee (SAC) members in autumn 2002/2003/2004 respectively for their review, consideration and comments.

Performance: NC has prepared a preliminary draft “Data Report on the Acid Deposition in the East Asia Region 2001 (Data Report 2001), 2002 and 2003” for the consideration at the annual Senior Technical Managers’ Meeting (STM). The preliminary draft Data Report 2001, 2002 and 2003 were revised based on the comments at STM with additional data provided by participating countries, and verified by the data verification group established in NC. After receiving the comments by the data verification group members, NC communicated with relevant participating countries and has prepared a draft Data Report for the consideration at the annual Session of SAC. After discussion at SAC, the draft Data Report 2001, 2002 and 2003 were revised to complete with comments and suggestion of SAC members and published by NC.

Evaluation: All of the planned activities were carried out by NC as planned.

3. DISSEMINATION OF DATA AND RELEVANT INFORMATION

3-1/2. Analysis on the state of acid deposition in the region/Development and updating of EANET website

Plan: The data submitted to NC is provided to participating countries in accordance with the procedures on data and information disclosure for EANET. Relevant scientific and technical information is also disseminated among the participating countries, as well as other countries, relevant organizations and individuals, through technical documents, the EANET website or other means in accordance with the same procedures. Periodic updating of EANET website is undertaken to include the records of the EANET activities as appropriate.

Performance: (i) The Data Report 2001, 2002 and 2003 were disseminated by NC among the participating countries and relevant organizations together with other published reports.

(ii) Relevant scientific and technical information was disseminated among the participating

countries, as well as other countries, relevant organizations and individuals. NC has also updated EANET website twice every year in 2002, 2003 and 2004 by presenting relevant information on EANET activities, such as EANET history, summaries of meetings, the latest Data report, Reports of Inter-laboratory comparison projects and so on.

(iii) In response to the request from IG5, NC compiled all information and materials such as EANET history, meeting documents, reports of inter-laboratory comparison projects, from ADORC website and established new EANET website <<http://www.eanet.cc>> in March 2004. NC divided its contents from ADORC website and updated.

(iv) NC developed the “Proposal on Detailed Mechanism of EANET Data Disclosure Procedure” after the discussion at Senior Technical Managers’ (STM) meeting to be presented at SAC in 2003. After consideration and revision, SAC recommended to endorse the document “Detailed Mechanism of Article 4 of the Procedures on Data and Information Disclosure for EANET” by IG5. This revised document was endorsed at IG5.

(v) In accordance with the above procedure, NC, in 2004, prepared to disclose outside of EANET by CD with regard to all of EANET monitoring data in 2001 and 2002. The procedure is carried out from the beginning of 2005.

Evaluation: All of the planned activities were carried out by NC as planned. Regarding disclosure of EANET monitoring data should be carried out not only through CD but also on website as soon as possible.

4. STRENGTHENING TECHNICAL CAPACITY IN THE PARTICIPATING COUNTRIES

4-1. Dispatch of technical missions

Plan: NC continues 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.

Performance: (i) NC dispatches technical missions to the participating countries to exchange information and experiences, to provide technical advice and to disseminate the latest technical information. NC had discussed the dates, contents of tasks, mission members, etc. with the National Focal Point of each participating country 3/4 months or more before the mission in advance. The main purposes and results of NC Technical Missions in Japanese Fiscal Year (JFY) 2002 – 2004 is attached as Annex 1.

(ii) In Japanese Fiscal Year (JFY) 2002, 2003 and 2004 NC missions were dispatched to all the

participating country once every fiscal year (during this period totally three times to all the participating countries).

(iii) Missions visited network monitoring sites including candidate sites and laboratories, had technical discussions with local experts on acid deposition, exchanged information and experiences on the preparatory and regular phase activities and held technical seminars with National Centers of the participating countries as appropriate.

Evaluation: All of the planned activities were carried out by NC as planned. But, it's very difficult to carry out this activities from 2005 in the same manner as previous years due to budget restriction.

4-2. Senior Technical Managers' (STM) Meeting

Plan: NC organizes the Third, Fourth and Fifth Senior Technical Managers' (STM3, STM4 and STM5) Meeting in September/October 2002, 2003 and 2004 respectively, in collaboration with relevant organizations so as to disseminate the latest scientific and technical information, to review the Network activities in the participating countries, and to clarify some important technical issues and to identify necessary activities to be carried out by the participating countries.

Performance: (i) NC organized STM3 from 2 through 4 October 2002 in Niigata, Japan. Senior technical managers of all participating countries and Lao P.D.R. as an observer as well as experts from relevant organizations attended the meeting. NC also organized STM4 from 1 through 3 October 2003 and STM5 on 28-30 September 2004 in Niigata, Japan. Senior technical managers of all participating countries and Myanmar as an observer as well as experts from relevant organizations attended.

(ii) The invitation was sent to the participating countries and relevant organizations in July 2002 and 2003 with Outline, Draft Program and General Information (GI). Necessary logistical procedures and arrangement were also done.

(iii) The participants of STM3, STM4 and STM5 discussed important technical issues such as national monitoring plans, monitoring data in 2001, 2002 and 2003 respectively, and results of inter-laboratory comparison projects. The summaries of these meetings were also developed by NC and distributed to the participating countries of EANET.

(iv) NC also distributed the proceedings of STM2, STM3, STM4 and STM5 in June 2002, May 2003, February 2004 and May 2005 respectively to the participants, and relevant organizations.

Evaluation: All of the planned activities were carried out by NC in cooperation with the Secretariat as planned.

4-3. Assistance and technical support to individual countries

Plan: NC continues to provide technical assistance to individual participating countries, depending on the situation of countries.

Performance: (i) NC has implemented the technical cooperation programs with support of Ministry of the Environment (MOE), Japan for the participating countries by providing technical and financial support to the countries. NC provided technical advice and disseminated the latest technical information on the acid deposition monitoring to the participating countries of EANET.

(ii) Monitoring materials such as spare-parts, consumable supplies and standard reference materials for wet deposition monitoring were provided to Indonesia, Mongolia and Viet Nam in 2002 and wet-only sampler, spare-parts, consumable supplies and standard reference materials for wet deposition monitoring were provided to Cambodia, China, Lao P.D.R. and Mongolia in 2003.

(iii) In order to start wet deposition monitoring in Cambodia and Lao P. D. R., monitoring equipment such as pH meters, electric conductivity meters, consumable supplies and standard reference materials for wet deposition monitoring were provided to these two countries in February 2004. Technical assistance was rendered for Mongolia, Philippines and Indonesia to provide with the laboratory materials. Used Atomic Absorption Spectrometer was also provided to Russia in 2003.

Evaluation: All of the planned activities were carried out as planned by NC. But, in order to start wet-deposition monitoring with regard to all of the necessary items in Cambodia and Lao P.D.R., more sufficient assistance and technical support to these countries are still needed. Considering the situation, additional support by using the saving money of the Secretariat will be carried out from 2005. Furthermore, proposals for aid agencies for the support also have to be taken into consideration.

4-4. Communication/coordination with donor agencies

Plan: NC undertakes close cooperation and coordination with relevant international and bilateral organizations.

Performance: NC tried to contact close cooperation and coordination with relevant international and bilateral organizations such as UNEP, EMEP, WMO and so on so as to provide assistance and technical support to the participating countries.

Evaluation: All of the planned activities were carried out by NC as planned. But, considering the importance of hemispheric air quality issue and promotion of EANET activities, close communication and/or coordination with European organizations should be further strengthened.

5. IMPLEMENTATION AND COORDINATION OF QA/QC ACTIVITIES

5-1/2. Inter-laboratory comparison surveys/Individual questions and answers

Plan: (i) NC distributes the samples of 2002, 2003 and 2004 inter-laboratory comparison surveys in December 2002, 2003 and 2004 respectively. The surveys cover artificial precipitation samples, the soil samples and artificial samples on inland aquatic environment. NC also prepares reports on the inter-laboratory comparison surveys in 2001, 2002 and 2003, based on the data submitted by the participating laboratories for review and comments by SAC members.

(ii) NC continues 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.

Performance: (i) As one of QA/QC activities of EANET, NC conducted Inter-laboratory comparison projects among the analytical laboratories of EANET in order to recognize the analytical precision and accuracy in each participating laboratory through the evaluation of analytical results, and to provide an opportunity to improve the quality of the analysis on monitoring.

(ii) NC distributed the samples of Inter-laboratory comparison projects among all the laboratories in the participating countries in December and/or January every year. All of the participating laboratories have submitted their analytical data to NC.

(iii) NC presented draft reports of 2001 Inter-laboratory comparison projects at SAC2 in 2002, draft reports of 2002 Inter-laboratory comparison projects at SAC3 in 2003 and draft reports of 2003 Inter-laboratory comparison projects at SAC4 in 2004 respectively. NC finalized these reports taking the comments at SAC2/3/4 into account and distributed them in May 2002/2003/2004 respectively.

(iv) NC considered that the names of laboratories should be disclosed in the reports on the inter-laboratory comparison projects and decided to disclose the names from the reports on the 2001 inter-laboratory comparison projects, in November 2002 no objection was raised from the participating countries.

(v) In accordance with the suggestion at SAC2 in 2002, NC reviewed existing QA/QC activities on the filter pack method with summarizing the information from Co-operative Programme for Monitoring and Evaluation of the Long Range Transmission of Air Pollutants in Europe (EMEP) and Clean Air Status and Trends Network (CASTNET) in the United States. The reports were

presented at STM4 and SAC3 for their comments and discussion.

(vi) NC successfully participated in the “Inter-comparison projects organized by the UNECE International Cooperative Programme on Assessment and Monitoring of Acidification of Rivers and Lakes (ICP Waters), which was performed in June/July 2003/2004.

(vii) Following the recommendation of SAC2, NC distributed the Questionnaire on Participation in International Inter-laboratory Comparison Projects among the national centers of EANET countries in 2002, 2003 and 2004. Draft reports on the results of this questionnaire were prepared for the consideration at STM and SAC.

(viii) NC has disseminated technical information on the QA/QC programs of EANET and other technical documents, in order to provide technical advice for the participating countries in developing national QA/QC programs and standard operating procedures for all the monitoring activities, etc.

Evaluation: All of the planned activities were carried out by NC as planned. But, there are a few laboratories whose measured values were considerably different from the prepared values. It suggests NC that further improvement of QA/QC is still needed.

6. IMPLEMENTATION OF TRAINING ACTIVITIES

Capacity building/Training activities including carried out before 2002, training workshop, etc. carried out by NC are attached as Annex 2.

6-1 Development of annual training program

Plan: NC develops annual training program of EANET.

Performance: In order to improve various monitoring skills of the participating countries, NC developed annual training program on individual training at Acid Deposition and Oxidant Research Center (ADORC) taking account of the results of Inter-laboratory comparison projects and specific situations of each participating country. This training program included name of candidate countries for training and contents of the training prepared under the communication with participating countries. Training on wet deposition monitoring, dry deposition monitoring, soil and vegetation monitoring and inland aquatic environment monitoring as well as data management were included in this program.

Evaluation: All of the planned activities were carried out by NC as planned.

6-2 Development of training materials, technical documents

Plan: NC continues to develop detailed training materials, technical documents for monitoring wet deposition, dry deposition, soil and vegetation and inland aquatic environment.

Performance: NC developed the textbooks on basic knowledge for “Fundamental Methodology for Wet Deposition Monitoring”, “Quality Assurance and Quality Control in Soil Monitoring”, “Fundamental Limnology for Inland Aquatic Environment Monitoring on Acidification” and “Procedures for Data Management in Wet Deposition Monitoring” to use for training activities of EANET in line with “Training Programs for EANET in the Regular Phase”. These textbooks were disseminated among the participants of SAC3 and IG5.

Evaluation: All of the planned activities were carried out by NC. But, some other materials have to be developed, such as “How to develop Standard Operational Procedures”, and so on.

6-3 Assistance for national training activities

Plan: Assistance for national training activities by providing technical materials, dispatching technical experts, etc.

Performance: (i) NC dispatched experts to provide technical support for national training programs on acid deposition monitoring of Thailand (March 2002), China (December 2002, October and December 2003, and June and November 2004) and Indonesia (February 2003). NC also dispatched an expert to China to provide technical support for an annual national workshop on acid deposition monitoring held in March 2003.

(ii) NC sent questionnaires about national training activities in 2002, 2003 and 2004 to the participating countries so as to disseminate information on the training activities in the participating countries. NC submitted the results of this survey to STM3/SAC2 in 2002, STM4/SAC3 in 2003 and STM5/SAC4 in 2004 respectively.

Evaluation: All of the planned activities were carried out by NC as planned.

6-4 Coordination with and support for other training programs

Plan: Various training programs and other technical assistance activities implemented by donor agencies are utilized to a maximum extent for the promotion of EANET. NC closely communicates and coordinates with such donor agencies on this matter.

Performance: (i) NC has maintained close communication and coordination with the organizers of the JICA course on the curriculum by sending experts to attend the steering committee meeting and to lecture on EANET monitoring and data management, and by holding ad hoc technical coordination meetings.

(ii) JICA carried out the training course in JFY2002 since 7 October through 15 December 2002 in Kobe, Japan. Nine trainees participated in this course representing eight participating countries, namely Cambodia, Indonesia, Lao P.D.R., Malaysia, Mongolia, Philippines, Thailand and Viet Nam. NC dispatched staff members to this training course as lecturers.

(iii) JICA decided to continue its training course entitled “Country Focused Training Course on the Acid Deposition Monitoring Network in East Asia” for at least five years from 2003 considering its importance in the implementation of EANET activities and based on the request from participating countries of EANET.

(iv) JICA carried out the training course in JFY2003 since 13 October through 21 December 2003 in Kobe, Japan. Ten trainees participated in this course representing nine participating countries, namely Cambodia, China, Indonesia, Lao P.D.R., Malaysia, Mongolia, Philippines, Thailand and Viet Nam. During visit of JICA trainees to Niigata, NC also explained current state and problems of acid deposition monitoring of EANET, and public awareness activities of EANET.

(v) JICA carried out the training course in JFY2004 since 11 October through 19 December 2004 in Kobe, Japan. Ten trainees participated in this course representing nine participating countries, namely Cambodia, China, Indonesia, Lao P.D.R., Malaysia, Mongolia, Philippines, Thailand and Viet Nam, and Myanmar.

(vi) Regarding JICA Third Country Training on “The Acid Deposition Monitoring and Assessment in Thailand” held on 16-27 February 2004, NC dispatched experts to Thailand during this training as lecturers of the training. Eighteen (18) trainees from 6 EANET countries, namely Cambodia, China, Lao P.D.R., Mongolia, Thailand and Viet Nam participated in the training course. Phase I of this course will be continued to 2007.

(vii) As a part of JICA counterpart trainings, one trainee from Philippines received training of air quality monitoring including acid deposition monitoring at NC in February 2003, and another trainee from Thailand received training focusing on emission inventory and numerical modeling at NC in March 2003.

Evaluation: All of the planned activities were carried out by NC as planned.

6-5 Individual training at NC

Plan: Individual training at NC (tentatively planned for five or six trainees every year from the participating countries based on the NC budget).

Performance: (i) In line with “Training Programs for EANET in the Regular Phase”, individual

training at NC has been carried out. Every year, in consultation with the participating countries, NC sent invitation 3 or 4 months before the start of training. The contents of training were decided by NC after consultation with the NFPs, boss of the trainee(s) and the trainee(s) several months before the training. Furthermore, the training program was also discussed before the training between trainee and NC at NC.

(ii) In 2002, two trainees (from China and Thailand) received individual training at NC in February/March, and one trainee each from China, Indonesia, Mongolia and Philippines also received individual training in October/November. (Totally 6 trainees)

(iii) In 2003, two trainees (from Cambodia and Lao P.D.R.) received individual training in February/March, and one trainee each from China, Thailand and Viet Nam also received individual training in October. (Totally 5 trainees)

(iv) In 2004, two trainees (from Cambodia and Lao P.D.R.) received individual training in January/February, and one trainee each from China, Malaysia and Philippines also received individual training in October. (Totally 5 trainees)

(v) The training expenses at ADORC were borne by NC, as well as the expenses for the economy class round-trip airfare by the most direct route between the nearest international airport and Narita International Airport, per diems including room charges and other miscellaneous expenses.

(vi) The individual training has been implemented from a viewpoint of enhancing the proficiency of various monitoring skills of participating countries, taking into account of the results of QA/QC activities, specific situations in the countries such as personal change, etc., and individual needs for training in each participating country.

Evaluation: All of the planned activities were carried out by NC as planned.

6-6 Communication/coordination with donor agencies

Plan: NC closely communicates and coordinates with donor agencies on this matter.

Performance: (i) In order to provide assistance and technical support to individual participating countries, NC undertook close cooperation and coordination with relevant international and bilateral organizations such as UNEP, EMEP, WMO, etc.

(ii) NC dispatched an expert to lecture at the Training on Monitoring Transboundary Air Pollution under the Malé Declaration held at UNEP RRC.AP in May/June 2002 based on the request from the organizer. Major objectives of the training were to discuss the technical issues on site selection, to introduce the technical manual, and to provide demonstration on sampling and

analysis of transboundary air pollutants, etc.

(iii) "The Questionnaire Survey for Capacity Building by Relevant Organizations" was implemented to the seventeen international and bilateral organizations relevant to acid deposition problems. The result of the survey was presented at STM3 in October 2002 and disseminated to the participating countries. According to this survey, JICA, WMO, Convention on Long-range Transboundary Air Pollution (CLRTAP), United Nations Economic Commission for Europe (UN/ECE), National Oceanic and Atmospheric Administration (NOAA) in the United States, Swedish International Development Cooperation Agency (SIDA) and Economic and Social Commission for Asia and the Pacific (ESCAP) have implemented capacity building activities related to acid deposition.

Evaluation: All of the planned activities were carried out by NC as planned.

7. RESEARCH ACTIVITIES

7-1 Research for improving monitoring methodologies

Plan: The researches for improving monitoring methodologies, particularly regarding dry deposition and soil/vegetation will be undertaken in 2002, 2003 and 2004, depending on availability of necessary financial resources.

Performance: (i) Research activities were implemented in a small catchment area in Kajikawa Village, Niigata Prefecture in 2002 and 2003. 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. Based on the experience, monitoring methodologies for catchment area would be elaborated/developed for future activities on EANET. Catchment monitoring would be promoted in the East Asian Region as one of the approaches for achieving the ultimate objective of soil and vegetation monitoring, which was described in the Strategy Paper for future direction on soil and vegetation monitoring of EANET.

(ii) NC conducted a research on applicability of 4-stage (Teflon, Nylon, Alkali impregnated cellulose, and Acid impregnated cellulose) filter pack method for the air concentration monitoring in 2003. Two kinds of filter pack, open face and with aluminum impactor for cutting PM₁₀ off, were prepared for the research on effects of PM₁₀ cut impactor. Concentrations of gas (SO₂ and HNO₃) and aerosol components (SO₄²⁻, NO₃⁻, Cl⁻, NH₄⁺, Na⁺, K⁺, Mg²⁺, Ca²⁺) were compared among these methods. Sampling efficiency of SO₂ was also examined using multi stage filter pack holder. Furthermore, comparison of filter pack method with automatic gas monitor was carried out.

Evaluation: All of the planned activities were carried out by NC. But, considering the importance of research activities, research activities for improving monitoring methodologies have to be still promoted. In the EANET meetings research activities should be more discussed among the participating countries. The guideline for the promotion of the fellowship also has to be developed by NC this year.

7-2 Fellowship

Plan: The following research activities will be undertaken in 2002 and 2003, depending on availability of necessary financial resources and fellowship foundation. - Researches for improving monitoring methodologies, particularly regarding dry deposition and soil/vegetation -

Performance: (i) A researcher from Republic of Korea joined NC in early October 2001 utilizing the Eco-frontier Fellowship. The researcher studied the research of inland aquatic environment diligently and the research was carried out at Miomote River in Niigata Prefecture, since it is one of the most important rivers to which salmon return in Japan. The concentrations of many ions were observed. But, the researcher returned to the Republic of Korea at the end of March 2002 due to specific reason.

(ii) For evaluating effects of acid deposition on plant, it is necessary to accumulate information on plant sensitivity to acid deposition. However, the sensitivity and/or physiological response of tropical and sub-tropical plant species to acid deposition have not been studied enough. In order to promote research on the physiological response to acid deposition of tropical and sub-tropical trees, NC submitted the application form of a Philippine researcher for "Invitation Fellowship Programs for Research in Japan" to Japan Society for the Promotion of Science (JSPS). Unfortunately, the application was rejected.

(iii) In order to promote the research on monitoring methodology for detection of acid deposition impact on forest, NC applied for Fellowship Program to invite Russian researcher to Japan Society for the Promotion of Science (JSPS) Fellowship Program for Research in Japan (short term) twice, in May 2003 and September 2003. The second application was accepted by JSPS. The researcher came to NC in April 2004 to study monitoring methodologies of lichens in East Asia for two months.

Evaluation: All of the planned activities were carried out by NC. But, some applications were rejected by the fellowship foundation. More appropriate research themes and detailed explanation to the fellowship foundation have to be prepared hereafter.

7-3 Joint workshop on soil/vegetation monitoring in 2002

Plan: Implementation of the Joint workshop on soil/vegetation monitoring in 2002

Performance: (i) The Workshop on Elaboration and Development of Forest Monitoring in East Asia was held in Seremban, Malaysia, in December 2002, organized jointly by NC and the Programme Coordinating Centre of the International Co-operative Programme on Assessment and Monitoring of Air Pollution Effects on Forests (ICP Forests), and hosted by the Government of Malaysia. The Workshop was attended by 28 participants from ten EANET participating countries, namely Cambodia, China, Indonesia, Japan, Lao P.D.R., Malaysia, Mongolia, Philippines, Thailand and Viet Nam, and experts on forest monitoring. Delegation of ICP Forests was also present. In the workshop, some important subjects were identified for development of methodologies on forest monitoring.

Evaluation: All of the planned activities were carried out by NC as planned.

7-4 Joint research with Russia

Plan: Implementation of the Joint research with Russia

Performance: From JFY 2002, NC started the joint research project Phase 2 with the Limnological Institute. Annual acid deposition as well as heavy metals (mercury and lead) concentration and lead isotope ratio in snow have been determined. The results of monitoring in this region were very useful for data analysis of EANET due to their importance as data obtained from transition area to monitor long-range transportation of air pollutants from Europe and industrial regions of Russia to East Asia. Keeping in view that long term monitoring is necessary to evaluate the atmospheric environment in this region.

Evaluation: All of the planned activities were carried out by NC as planned. But, considering the importance of hemispheric air quality issue, the joint project has to be further strengthened hereafter.

7-5 Joint research with Thailand

Plan: Implementation of the Joint research with Thailand

Performance: The observation of dry deposition flux was started in 2001. The first meeting on joint research was held at ADORC in April 2002, in Niigata, Japan. At the meeting, experts from Japan and Thailand discussed the preliminary results of the research and exchanged information about dry deposition study. Available data for over three years were accumulated as of December 2004 to be used for scientific evaluation. The report on results of the data in 2002 and 2003 processing and analyzing was introduced at STM4/SAC3 in 2003 and STM5/SAC4 in 2004 respectively.

Evaluation: All of the planned activities were carried out by NC as planned. But, the joint project

has to be continued and further strengthened.

7-6 Joint research with Mongolia

Plan: Promotion of the Joint research with Mongolia.

Performance: Since JFY 2001, NC has been promoting joint research project on plant sensitivity to acid deposition with the Central Laboratory of Environmental Monitoring (CLEM), Mongolia. From 2001 to 2002, basic information on air pollution concentration and physiological response of the plants to acid deposition has been obtained around the Bogdkhan Mountain near Ulaanbaatar City. NC obtained the research budget for this study in March 2003, and studied implication between emission from the thermal power plant and chemical/physiological properties of plant and soil as well as sensitivities of Mongolian plant species. Regarding the evaluation of the data obtained in the project, the presentation was made in the international symposium held in Tsukuba, Japan in 19-22 October 2004, and scientific papers were prepared for publication in an international journal.

Evaluation: All of the planned activities were carried out by NC and Mongolia. But, this joint research activity has to be further strengthened

7-7 Other research activities

Plan: Promotion of other research activities including catchment study

Performance: (i) In accordance with the Work Program and Budget in 2002, 2003 and 2004, NC carried out the review of existing initiatives on developing emission inventory and numerical modeling such as (1) Long-range Transboundary Air Pollutants in Northeast Asia (LTP project), (2) RAINS-Asia, (3) Model Intercomparison Study in Asia (MICS-Asia), (4) the Study on the Acid Deposition Control Strategy in the Kingdom of Thailand (TAciDES) and (5) Cooperative research program between the Malaysian Meteorological Service and the Swedish Meteorological and Hydrological Institute. Following the studies in 2003, NC has collaborated with some of initiatives on developing emission inventories and numerical modeling.

(ii) In order to collect recent information on modeling activities for Asian region, NC dispatched experts to attend the Fifth Workshop on the Transport of Air Pollution in Asia (Model Inter-comparison Study - MICS-Asia) held at IIASA, Laxenburg, Austria, in January 2003. The main objectives of the workshop were to observe recent achievements in regional atmospheric pollution modeling and to discuss the plan of next model inter-comparison study (Phase II). As the results of the discussion the plan of Phase II was clarified, and at least seven model groups expressed their readiness to join the next model inter-comparison study with their models.

(iii) NC also dispatched February 2004 to participate in the 6th Workshop (MICS -Asia) held at

IIASA to discuss progress of the model simulation studies and the emission inventory comparison studies, and analysis framework of the model inter-comparison studies.

(iv) Based on the document “Proposal for Future Direction of Research Activities in EANET” submitted to the First Session of the Scientific Advisory Committee (SAC1) held in Chiang Mai, Thailand in November 2001, and taking the comments from SAC1 into account, NC developed the “Proposal for Future Direction of Research Activities in EANET” for the consideration at STM3 held in October 2002 and SAC2 held in November 2002. This document was disseminated in 2003 to the participating countries.

(v) NC attended the Cooperative Programme for Monitoring and Evaluation of the Long-range Transmission of Air Pollution in Europe (EMEP), German and US International Workshop on Hemispheric Air Pollution held on 7-9 October 2002 in Bad Breisig, Germany to introduce EANET activities and exchange views on long-range transmission of air pollution across the northern hemisphere.

(vi) In order to introduce EANET as the regional network, to inform on the current activities of EANET and to discuss a possibility of coordination/cooperation with other regional programs for regional and global environmental issues, NC attended 13th World Clean Air and Environmental Protection Congress held in August 2004 in London.

Evaluation: All of the planned activities were carried out by NC as planned. But, research activities have to be further strengthened based on the Five-Year Medium Term Plan of EANET (MTP5).

8. TECHNICAL SUPPORT FOR EANET MEETINGS

8-1 Preparation of technical documents

Plan: Preparation of technical documents

Performance: (i) NC prepared the necessary technical documents for the Working Group on Further Financial Arrangement for EANET (WG), WGFD, SAC and IG Meetings in 2002, 2003 and 2004. Before submission to these EANET meetings, NC asked the comments on the necessary documents from the Task Force and the relevant organizations as appropriate.

(ii) All of necessary technical documents were sent by e-mail to the participating countries from NC before the session for their consideration in advance. The documents were discussed/endorsed/approved at WG1/SAC2/IG4 held in 2002, WG2, WG3/SAC3/IG5 held in 2003 and/or WGFD1/IG6/SAC4 held in 2004.

Evaluation: All of the planned activities of NC were carried out as planned.

8-2 Attendance at EANET meetings

Plan: Attendance at EANET meetings

Performance: NC attended all of WG, WGFD, SAC and IG Meetings, and made presentations, as appropriate and developed/supported to developing (draft) report of the session. .

Evaluation: All of the planned activities were carried out by NC as planned. The efficiency of NC has to be further promoted.

8-3 Support of Task Force

Plan: NC continues to provide support to Task Force on Dry Deposition Monitoring, the Task Force on Soil and Vegetation Monitoring, and the Network of Soil and Vegetation Specialists, as their Secretariat.

8-3-1 Task Force on Dry Deposition Monitoring

Performance: (i) NC continued to serve 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 implementation of EANET dry and soil and vegetation monitoring.

(ii) NC, as the secretariat of the Task Force on Dry Deposition Monitoring, prepared a preliminary draft of the “Technical Document for Filter Pack Monitoring in East Asia” for consideration by Task Force on Dry Deposition Monitoring. The document was distributed to the members of the Task Force in September 2002. Progress of the consideration was introduced at SAC2.

(iii) Based on the comments at SAC2, NC prepared revised draft, and sent it to the members of SAC and this Task Force members in May 2003. Taking the comments of the members into account, NC prepared the final draft to submit for SAC3 after the reporting of progress at STM4. The “Technical Document for Filter Pack Monitoring in East Asia” was endorsed at SAC3 as proposed.

(iv) Following the endorsement of the “Technical Document for Filter Pack Monitoring in East Asia” at SAC3, NC as the Secretariat of the Task Force on Dry Deposition Monitoring published and distributed it to NFPs, Heads of National Centers, SAC members and the Task Force members in February 2004.

(v) In order to conduct further development of dry deposition (air concentration) monitoring of EANET, NC initiates a discussion on related important issues within Task Force. The correspondent paper was prepared and disseminated among Task Force members as well as presented at STM5. The results of discussion were summarized and presented at SAC4 held in November 2004.

(vi) Following the results of the discussion at SAC4, NC prepared the draft of "Revised Edition of Strategy Paper for Future Direction of Dry Deposition Monitoring of EANET" and distributed it to the Task Force members as well as NFPs, Heads of National Centers and SAC members for their comments.

Evaluation: All of the planned activities were carried out by NC as the Secretariat of the Task Force as planned.

8-3-2/3 Task Force on Soil and Vegetation Monitoring/Management of the Network on Soil/Vegetation Specialists

Performance: (i) Regarding the "Strategy Paper for Future Direction of Soil and Vegetation Monitoring", based on the numerous comments and suggestions about the preliminary draft outline from the participating countries, NC revised it and prepared a preliminary draft Strategy Paper for the consideration by the Task Force in July 2002. Based on the comments by the Task Force, NC has prepared a draft Strategy Paper for the consideration at SAC2 in November 2002. It was endorsed by SAC2 after a few modifications.

(ii) NC printed it in March 2003, and distributed to the NFPs, National Centers, members of SAC and the Task Force, and other relevant organizations in May 2003. As one of the activities, Workshop on Elaboration and Development of Forest Monitoring in East Asia was held jointly with International Co-operative Programme on Assessment and Monitoring of Air Pollution Effects on Forests (ICP Forests) in December 2002, and its proceedings was distributed to NFPs, participants of workshop and other relevant organizations in May 2003. Activities in line with the Strategy Paper were promoted in 2003.

(iii) Based on the discussion in the workshop, some technical subjects were clarified for development of sub-manual on forest monitoring. NC requested the Task Force members to give comments/suggestions on the technical subjects for this sub-manual in April 2003. Taking into account the received comments, NC prepared and distributed the "Procedures and schedule for preparing sub-manual on forest monitoring in East Asia (Draft)" among NFPs, members of the Task Force as well as Network on Soil and Vegetation Monitoring Specialists in September 2003. NC introduced the activities in line with Strategy Paper for Future Direction of Soil and Vegetation Monitoring of EANET including a progress on the development of sub-manual on forest monitoring at SAC3.

(iv) NC prepared the document "Contents and authors for the sub-manual on forest monitoring in East Asia" based on the procedures and schedule mentioned above. The document was reviewed among NFPs, members of the Task Force as well as Network on the Specialists from January to March 2004, and then revised as appropriate. The leading authors of the respective (sub-) chapters of the sub-manual prepared manuscripts mostly by the end of December 2004.

(v) To promote implementation of the next survey of soil and vegetation as one of activities in line with the Strategy Paper, NC drafted a document on "Sampling Plan/Schedule for Soil and Vegetation Monitoring of EANET 2003-2007" based on the national monitoring plans as well as the existing latest information to be distributed among NFPs, national centers and Task Force members in July 2003. After the checking and refilling by the latest information this draft document was introduced at STM4 and SAC3. The updated document was also introduced at STM5 and SAC4.

(vi) NC sent a mission to the 18th, 19th and 20th Task Force Meeting of ICP Forests held in May 2002, 2003 and 2004 respectively. Progress of the EANET activities including outcomes of the EANET-ICP Forests Joint Workshop were reported to European forest monitoring network, and possibility of further collaboration between EANET and ICP Forests was discussed.

Evaluation: All of the planned activities were carried out by NC as the secretariat of the Task Forces as planned. Some manuscripts of the sub-manual on forest monitoring have not been prepared, and it may take certain time to finalize the sub-manual.

8-4 Other follow-up activities of the meetings

Plan: Carrying out of other follow-up activities of the meetings as appropriate

Performance: (i) NC presented the overview of EANET activity as well as recent progress of NC at the Third, Fourth and Fifth Collaborating Assessment Network (CAN3/4/5) Meeting in Pathumthani, Thailand, in November 2002/2003/2004 respectively. Collaboration within UNEP environmental programs and with related funding organization was discussed.

(ii) In order to disseminate the information on EANET activities to high level policy makers, in collaboration with the Secretariat, NC developed brief material of EANET. This material was distributed and introduced at the ASEAN+3 Ministerial Meeting held in December 2003 in Myanmar.

Evaluation: All of the planned activities were carried out by NC as planned.

9. OTHER ACTIVITIES

9-1 Raising of public awareness on acid deposition problems

Plan: NC promotes public awareness in selected participating countries through joint projects on developing their own national brochures on acid deposition, support to hold their in-country workshops, develop an educational material for internet-use, etc, and by organization of a workshop among participating countries to exchange experience on public awareness, etc.

9-1-1 Development of brochures etc.

Performance: (i) In 2002, NC undertook joint projects with Indonesia and Viet Nam (in JFY 2001) and Mongolia (in JFY 2002) to develop national brochures, and with Philippines (in JFY 2001), Indonesia and Viet Nam (JFY 2002) to hold in-country workshops.

(ii) In 2003, NC undertook joint projects with Mongolia (in JFY 2002) and Russia (in JFY 2003) to develop national brochures, and with Indonesia, Viet Nam (in JFY 2002) and Mongolia (JFY 2003) to hold in-country workshops.

(iii) In 2004, NC undertook joint projects with Russia (in JFY 2003) and Cambodia (in JFY 2004) to develop national brochures, and with Mongolia (in JFY 2003) and Russia (JFY 2004) to hold in-country workshops.

(iv) NC 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 JFY 2002. The program was introduced at SAC3 and IG5. The e-learning program will be operated on the server computer of IGES under collaborative management of IGES and NC.

(v) NC participated in the International Symposium on Environmental Management: Policy, Research, Education held in November, 2003 in Chiang Mai, Thailand organized by Chiang Mai University, Thailand and Shiga University, Japan. The presentation was done to disseminate activities of EANET especially focused on public awareness activities.

Evaluation: All of the planned activities except for developing e-Learning program were carried out by NC. Regarding development of e-Learning program, it's still not issued on EANET web site due to lack of budget, and so on. It should be finished as soon as possible, at least before next IG in 2005.

9-1-2 Workshop on exchange of experiences

Performance: (i) NC organized the Second Workshop on Public Awareness for Acid Deposition Problems on 21-22 February 2002 in Beijing, China. The Workshop was attended by approximately fifty participants and observers from Cambodia, China, Indonesia, Japan, Lao P.D.R, Malaysia, Mongolia, the Philippines, Republic of Korea, Russia, Thailand and Viet Nam.

(ii) NC also organized the Third, Fourth and Fifth Workshop on Public Awareness for Acid Deposition Problems in February/December 2003 and January 2005 respectively in Niigata, Japan. The Fourth and Fifth Workshops consisted of the Part I and the Part II. The Part I was attended by approximately forty participants and observers from EANET participating countries, namely, Cambodia, China, Indonesia, Japan, Lao P.D.R., Malaysia, Mongolia, Philippines, Republic of Korea (only Fifth WS), Russia, Thailand and Viet Nam. The Part II was attended by approximately two/three hundreds general public and school children.

Evaluation: All of the planned activities were carried out by NC as planned.

10. ADMINISTRATIVE WORKS

10-1 Communication and coordination

Plan: NC undertakes close communication and coordination with acid deposition monitoring networks in other regions and relevant international/bilateral organizations etc. on scientific and technical issues.

Performance: (i) In order to collect recent information on modeling activities for Asian region, NC dispatched experts to attend the Workshops on the Transport of Air Pollution in Asia (Model Inter-comparison Study - MICS-Asia) held at IIASA, Laxenburg, Austria, in January 2003 and February 2004.

(ii) NC undertook close cooperation and coordination with relevant international and bilateral organizations such as UNEP, EMEP, WMO, etc.

Evaluation: All of the planned activities were carried out by NC as planned.

10-2 Maintenance of budget and personal affairs/Miscellaneous

Plan: Implementation of maintenance of budget and personal affairs and miscellaneous works

Performance: (i) NC implemented maintenance of budget and personal affairs and miscellaneous works as appropriate.

(ii) In order to promote efficiency and transparency, NC drafted "A Memorandum on More Efficient and Transparent Activities of the Network Center" as annex of the "Report on Further Financial Arrangement for EANET" and submitted to WG and IG in 2003. It was endorsed at IG5 in 2003.

(iii) Based on the “Guidelines for Recruiting the Deputy Director General of ADORC in charge of NC” and in consultation with NFPs, the recruiting procedure was carried out by the Secretariat and JESC/ADORC in 2002 and 2004/2005.

Evaluation: All of the planned activities of NC were carried out as planned.

Annex 1

Technical Missions of NC in Japanese Fiscal Year (JFY) 2002 - 2004

1. JFY 2002 (April 2002- March 2003)

Country	Period	Main Purposes/Results
Russia	31 July- 4 August, 19-25 August 2002	i) Finalization of the Memorandum of Agreement (MOA) of the Cooperative Research Project in 2002; and ii) Visit to Primorskaya monitoring station and other candidate acid deposition monitoring sites near Vladivostok.
Indonesia	9-14 September 2002	i) Exchange information and views on progress of activities on the Acid Deposition Monitoring Network in East Asia (EANET) in Indonesia; and ii) Visit to laboratories of the Environmental Impact Control Facility (SARPEDAL) and the Bureau of Meteorology and Geophysics (BMG).
Mongolia	14-19 October 2002	i) Discussion on the methodologies of wet and dry deposition monitoring, especially for winter season; and ii) Exchange information and views in detail on the progress of the soil and vegetation monitoring of EANET in Mongolia.
Cambodia and Lao P.D.R.	23-30 October 2002	i) Exchange of information and views on institutional and technical arrangements for the activities of the Acid Deposition Monitoring Network in East Asia (EANET); and ii) Exchange of information and views on technical cooperation with NC.
Malaysia	9-13 December 2002	i) Discussion and exchange of information on wet and dry deposition sampling performed by Malaysian Meteorological Service (MMS) including the selection of new monitoring sites; and ii) Discussion on the conditions of wet and dry deposition analysis at Department of Chemistry (DOC).
China	7 – 16 January 2003	i) Visit to the monitoring center of four cities and most of the monitoring sites excluding Jinyunshan site in Chongqing, etc.; and ii) Discussion on carrying out of filter-pack method.
Viet Nam	19 – 25 January 2003	i) Visit to the HMS of Southern Vietnam and had discussion on monitoring activities in Southern Vietnam; and ii) Attendance to the joint committee at HMS, in which the new monitoring plan was discussed and National Workshop on a Acid Deposition and made presentation on EANET
Philippines	20 – 24 January 2003	i) Confirmation of the actual situation of wet and dry deposition monitoring sites and two laboratories (EMB and UP); and ii) Discussion on the major causes of low data completeness on wet deposition monitoring at Los Banos site.
Republic of Korea	25 – 28 February 2003	i) Exchange information on the filter-pack method in R. of Korea; and ii) Discussion on the possibility of the inland aquatic environment monitoring of EANET; and
Thailand	25 February – 7 March 2003	i) Visited PCD and exchanged information and views on the progress of activities of wet & dry deposition and soil & vegetation monitoring of EANET; and ii) Attendance to the Thailand National training and lectured wet and dry deposition, Soil/vegetation etc.

2. JFY 2003 (April 2003- March 2004)

Country	Period	Main Purposes/Results
Mongolia	21 – 26 July 2003	i) Exchange information and views on the progress of the monitoring activities on EANET in Mongolia; and ii) Going to the Bogdkhan Mountains to search out appropriate observation sites for the joint research on plant sensitivity.
Russia	27 July – 1 August 2003	i) Finalization of the MOA of the Cooperative Research Project in 2003; and ii) Visit to three monitoring sites, Mondy, Bol'shye Koty and Listvyanka.
Cambodia and Lao P.D.R.	3 – 10 September 2003	i) Exchange information and views on technical cooperation between both countries and NC; and ii) Visited relevant laboratories and candidate monitoring sites for EANET activities in both countries.
Indonesia	7 – 13 September 2003	i) Visit to the Ministry of the Environment (KLH) and had a meeting to exchange views and information on progress of activities on EANET in Indonesia; and ii) Visited laboratories of SARPEDAL and the Bureau of Meteorology and Geophysics (BMG) and observed equipment such as IC, sampler, etc.
China	6 – 14 January 2004	i) Exchange information and views on progress of the monitoring activity on EANET in China; and ii) Visit to remote, urban and rural monitoring sites and laboratories in China (Chongqing and Zhuhai).
Philippines	19 – 23 January 2004	i) Exchange views and information on the institutional arrangement on the acid deposition monitoring of EANET in the Philippines; and ii) Visit to the candidate sites for inland aquatic monitoring and discuss the alteration of monitoring site.
Viet Nam	2 – 10 February 2004	i) Visit to the candidate sites for soil and vegetation/inland aquatic environment monitoring in Nam Cat Tien, etc. and ii) Visit to relevant agencies for exchange information and discussion on the cooperation in acid deposition monitoring activities in Viet Nam
Thailand	7 –13 March 2004	i) Exchange information and views on the progress of activities on the acid deposition monitoring in Thailand; and ii) Carrying out the intensive maintenances of the dry deposition flux measurement system in Mae Moh.
Malaysia	29 February – 6 March 2004	i) Discussion and exchange information on wet and dry deposition sampling performed by MMS including dry deposition monitoring method (Filter Pack, etc.); and ii) Discussion and exchange of information on the new site of GAW.
Republic of Korea	28 March – 1 April 2004	i) Exchange information and views on progress of the monitoring activity on the Acid Deposition Monitoring Network in East Asia (EANET) in Republic of Korea; and ii) Discussion on the possibility on joint research for sampling methodology on aerosols and gases.

3. JFY 2004 (April 2004- March 2005)

Country	Period	Main Purposes/Results
Russia	8 – 14 August 2004	i) Finalization of MOA of the Cooperative Research Project in 2004 funded by Ministry of the Environment of Japan; and ii) Visit to three atmospheric monitoring stations and new monitoring site for inland aquatic environment.
Mongolia	6–11 September 2004	i) Exchange information and views on the progress of the monitoring activities on EANET in Mongolia; and ii) Discussion on the methodologies of wet and dry deposition monitoring, especially the condition of the filter pack sampling system.
Cambodia and Lao P.D.R.	12 – 19 September 2004	i) Exchange information and views on institutional and technical arrangements for EANET in the both countries; and ii) Exchange information and views on technical cooperation with NC.
Malaysia	5 – 11 December 2004	i) Discussion and exchange information on wet and dry deposition sampling performed by MMS including dry deposition monitoring method (Filter Pack, etc.); and ii) Discussion and exchange information on inland aquatic environmental monitoring performed by UiTM.
China	5 – 14 January 2005	i) Exchange information and views on progress of the monitoring activity on EANET in China; and ii) Visit to urban and remote monitoring sites and laboratories in China (Xiamen and Xi'an).
Philippines	16 – 22 January 2005	i) Discussion and exchange information on technical issues, especially QA/QC activities and data reporting, for wet and dry deposition monitoring; and ii) Visit to the candidate monitoring site for wet/dry deposition and inland aquatic environment, and discuss on the arrangement of suitable site performance.
Indonesia	6 – 12 February 2005	i) Visit to the Ministry of the Environment (KLH) and had a meeting to exchange views and information on progress of activities on EANET in Indonesia; and ii) Visit to the new (candidate) monitoring site for inland aquatic environment.
Republic of Korea	21 – 24 February 2005	i) Exchange information and views on progress of the monitoring activity on the Acid Deposition Monitoring Network in East Asia (EANET) in Republic of Korea; and ii) Discussion on implementation of the joint research project for the measurement of aerosol with Republic of Korea.
Thailand	27 February – 4 March 2005	i) Exchange information and views on the progress of activities on the acid deposition monitoring in Thailand; and ii) Visit to the candidate site for Inland aquatic environment monitoring (Sakaerat).
Viet Nam	7 – 15 March 2005	i) Visit to the candidate sites for soil and vegetation/inland aquatic environment monitoring in Tam Dao and Bach Ma in northern and middle Viet Nam, etc. and ii) Visit to relevant agencies for exchange information and discussion on the cooperation in acid deposition monitoring activities in Viet Nam

Annex 2

Capacity Building Activities of EANET

EANET has contributed to the capacity building of staff on acid deposition monitoring in the participating countries. That is one of the most important aspects of EANET.

In line with the “Training Programs for the Network (EANET/ISAG 1/5/1 rev.)” and “Training Programs for EANET in the Regular Phase (EANET/IG 3/10/2 rev.)”, Acid Deposition and Oxidant Research Center (ADORC), as the (Interim) Network Center (INC/NC), has been carrying out various kinds of capacity building activities.

1. Development of training materials and technical documents (2002 -)

NC developed following training materials:

“Fundamental Methodology for Wet Deposition Monitoring”

“Quality Assurance and Quality Control in Soil Monitoring”

“Fundamental Limnology for Inland Aquatic Environment Monitoring on Acidification”

“Data Reporting, Data Quality Assessment, and data Treatment of Wet Deposition Monitoring for EANET”

2. Assistance for national training activities (2001 -)

NC dispatched experts to provide technical support for national training programs on acid deposition monitoring of participating countries in cooperation with Japan International Cooperation Agency (JICA).

Year	Cambodia	China	Indonesia	Lao PDR	Malaysia	Mongolia	Philippines	R. of Korea	Russia	Thailand	Viet Nam	Total
2001		1								1		2
2002		1								1		2
2003		2, WS1	1									3, WS1
2004		2										2
Total		6, WS1	1							2		9, WS1

3. Training workshops by INC (1998 - 1999)

“Training Workshop on EANET focused on acid deposition monitoring was held in 1998 in Niigata. “Workshop on Ecological Impact Monitoring of Acid Deposition in East Asia” was held in 1999 in Beijing. Participants except for Japan were as follows:

Year	Cambodia	China	Indonesia	Lao PDR	Malaysia	Mongolia	Philippines	R. of Korea	Russia	Thailand	Viet Nam	Total
1998		2	2		1	1	1	1	1	1	1	11
1999		7+10 observers	1		2	1	1	1	1	2	1	27
Total		19	3		3	2	2	2	2	3	2	38

4. Individual training at ADORC (2000 -)

INC/NC has carried out individual training since 2000, in consultation with the participating countries.

Year	Cambodia	China	Indonesia	Lao PDR	Malaysia	Mon-golia	Philippines	R. of Korea	Russia	Thailand	Viet Nam	Total
2000									1	2		3
2001			3		1		1				1	6
2002		2	1			1	1			1		6
2003	1	1		1						1	1	5
2004	1	1		1	1		1					5
2005	1	1	1	1						*1	1	6
Total	3	5	5	3	2	1	3		1	5	3	31

* Travel cost, etc. of the training were borne by Thailand.

5. Coordination with and support for JICA training course (1997 -)

(1) JICA has carried out “Training Course on Acid Deposition Monitoring” since 1997. INC/NC dispatched trainers and maintains close communication and coordination with relevant organizations.

Year	Cambodia	China	Indonesia	Lao PDR	Malaysia	Mon-golia	Philippines	R. of Korea	Thailand	Viet Nam	Myanmar	India	Total
1997	1	1	2		1	1	1	1	1				9
1998		1		1	1	1	1	1	1	1		1	9
1999	1	1	1		2	1	1			1			8
2000	1	1	1		1	1	1		1	1			8
2001	1	1	1	1	2	1	1		1	1			10
2002	1		1	1	2	1	1		1	1			9
2003	1	1	1	1	1	1	1		2	1			10
2004	1	1	1	1	1	1	1		1	1	1		10
2005	1	1	1	1	1	1	1		1	1	1		10
Total	8	8	9	6	12	9	9	2	9	8	2	1	83

(2) JICA has carried out “JICA-Third Country Training Course on Acid Deposition Monitoring and Assessment” in Thailand in cooperation with Government of Thailand since 2004. NC maintains close communication and coordination with the organizer. NC also dispatched experts as lecturers.

Year	Cambodia	China	Indonesia	Lao PDR	Malaysia	Mon-golia	Philippines	Thailand	Viet Nam	Myanmar	Total
2004	2	2		2		2		6	4		18
2005	3	2	1	2	2	2	1	4	3	2	22
Total	5	4	1	4	2	4	1	10	7	2	40

(3) “JICA Counterpart Training Course” and “JICA Development Study Training Course” have been carried out by JICA. Regarding the part of air quality issue including acid deposition”, INC/NC

carried out the training at ADORC. NC maintains close communication and coordination with the organizer.

Year	Cambo dia	China	Indone sia	Lao PDR	Malay sia	Mon golia	Philipp ines	Thailand	Viet Nam	Total
1999			1							1
2000							1			1
2001										
2002										
2003							1	1		2
Total			1				2	1		4