

The Twelfth Session of the Scientific Advisory Committee  
on the Acid Deposition Monitoring Network in East Asia  
22-24 November 2012, Yangon, Myanmar

**Report on the Progress of the Acid Deposition Monitoring Network in East Asia  
(EANET) since the Eleventh Session of the Scientific Advisory Committee  
(SAC11) on the EANET**

**I. INTRODUCTION**

1. This document is prepared to report the progress of the Acid Deposition Monitoring Network in East Asia (EANET) activities since the Eleventh Session of the Scientific Advisory Committee (SAC11) on the EANET held on 12-14 October 2011 in Ho Chi Minh, Vietnam.
2. The activities of EANET implemented during this period were guided by the “Medium Term Plan for EANET (2011-2015)”, adopted at the Twelfth Session of the Intergovernmental Meeting (IG12) on the EANET held in November 2010 in Niigata, Japan. The activities were also in accordance with the Work Program and Budget of the EANET in 2011 and 2012 adopted at the IG12 and the Thirteenth Session of the Intergovernmental Meeting (IG13) on the EANET, respectively.
3. This document was revised based on the discussion at the Eleventh Session of the Working Group on Future Development of the EANET (WGFD11) held in August 2012 in Chonburi, Thailand. Major points of the discussion at the WGFD11 included the following,
  - The financial situation of the EANET in 2011 was in deficit which was because some participating countries either did not make financial contribution or made financial contribution less than the expected amount.
  - Due to the budget constraint in 2011, the Workshop on Capacity Building for Information and Communication Technologies for the EANET was cancelled.
  - The Secretariat made a request to the participating countries to make additional financial contribution for the 2011 budget in order to make up for the deficit.
  - The participating countries are then encouraged to make financial contribution to the EANET according to the estimated amounts for each participating country as early in the year as possible for the effective implementation of the EANET activities and financial management, in particular to prevent cash flow problem.
  - It was suggested to suspend the use of the saving of US\$ 50,000 for the Promotion of Public Awareness under the Work Program and Budget in 2012.
  - It was suggested that the saving should be used for emergency purposes or responding to unexpected situation, not for supporting the EANET regular activities.

## **II. INSTITUTIONAL AND ADMINISTRATIVE ARRANGEMENT**

### **II-1 Voluntary Financial Contribution from the Participating Countries**

4. In accordance with the Procedures and Guidelines for Voluntary Financial Contributions to the EANET for 2011-2013 adopted at the IG12 in November 2010, the Secretariat sent letters to inform all National Focal Points (NFPs) of the EANET of the estimated financial contributions of the participating countries both for the Secretariat budget and the Network Center (NC) core budget in 2012 and requested the participating countries to make voluntary financial contribution accordingly.

#### **II-1-1 Secretariat Budget**

5. In December 2011, the Ministry of Environment of Japan (MOEJ) and the RRC.AP/AIT on behalf of the Secretariat signed an agreement regarding the Japanese financial contribution for the budget of the Secretariat activities in 2011. In accordance with the agreement, the financial contribution from Japan for 2011 was made in March 2012.
6. In 2012, the participating countries that made voluntary financial contributions to the Secretariat budget in 2011 and 2012 include: Cambodia, China, Japan, Malaysia, Mongolia, Philippines, Republic of Korea, Thailand and Vietnam for 2011 budget; and Cambodia, China, Lao PDR, Malaysia, Mongolia, Philippines, Republic of Korea, Russia, Thailand and Vietnam for 2012 budget, as shown in detail in Table 1 of Annex 1.

#### **II-1-2 Network Center Budget**

7. In accordance with the Procedures and Guidelines for Voluntary Financial Contribution to EANET for 2011-2013 and the Work Program and Budget of the EANET in 2011 and 2012, Cambodia (July 2011), Japan (April 2011 and March 2012), Mongolia (November 2011) and Thailand (March 2011) made contributions to the NC core budget for the year 2011, and Cambodia (June 2012), Japan (March 2012), Lao PDR (August 2012), Mongolia (March 2012), Thailand (March 2012) and Vietnam (August 2012) made contributions to the NC core budget for the year 2012. In April 2011 and March 2012, Japan made contributions for the budget for implementation of the NC additional budget activities for the year 2011 and 2012 respectively.
8. Details of the financial contribution from the participating countries to the NC are shown in Table 2 of Annex 1.

### **II-2 Staff Recruitment of the Secretariat**

#### **Coordinator of the Secretariat**

9. The short list of the applicants was circulated to the National Focal Points (NFPs) for their comment in December 2011. On 14 December 2011, the Selection Committee for the

recruitment of the Coordinator of the Secretariat for the EANET met, interviewed the short-listed candidates, and selected Dr. Supat Wangwongwatana from Thailand as the final candidate. After the final candidate was recommended to all the NFPs for comment, Dr. Supat Wangwongwatana was decided to be the new Coordinator and was appointed by RRC.AP/AIT effective from 1 April 2012 to 31 March 2014.

### **Programme Officer of the Secretariat**

10. The term of the appointment of the Programme Officer of the Secretariat, Ms. Dong Yao, was completed on 15 July 2012, the Secretariat then initiated the process to recruit a Programme Officer accordingly. Since there has not been an official procedure for the recruitment of the Programme Officer, the Secretariat consulted all the NFPs to apply the Procedure for the Recruitment of the Coordinator of the Secretariat of Acid Deposition Monitoring Network in East Asia (EANET) with some modification for the recruitment of the Programme Officer, as shown in Annex 2.
11. The Secretariat sent out the vacancy announcement for Programme Officer position to all the NFPs of the EANET on 19 March 2012. The deadline for the application was on 30 April 2012. The long list of the applicants was transmitted to the National Focal Points for their information and comment, if any, on 15 May 2012. The Selection Committee held a meeting on 30 May 2012 for the selection of the short-listed candidates which were subsequently circulated to all the NFPs for their comment. In June 2012, the Selection Committee met and interviewed the short-listed candidates and selected Ms. Suwimol Wattanawiroon from Thailand as the final candidate. After consultation with the NFPs on the selected final candidate, Ms. Wattanawiroon was decided to be the new Programme Officer and was appointed by RRC.AP/AIT effective from 3 September for a period of two years.

### **II-3 Representative of the EANET in the RRC.AP Advisory Committee**

12. It was agreed by the previous Sessions of the Intergovernmental Meeting (IGs) on the EANET that there will be a representative of the EANET in the RRC.AP Advisory Committee and a representative from Thailand would be most appropriate and convenient to represent EANET since RRC.AP is located in Thailand. It was then agreed that Dr. Supat Wangwongwatana as the National Focal Point for Thailand at the time, was the representative from Thailand representing EANET in the RRC.AP Advisory Committee.
13. Since Dr. Supat Wangwongwatana took the position of the Coordinator of the Secretariat for EANET from 1 April 2012, the Secretariat made a request to the National Focal Point of Thailand to nominate a new representative from Thailand to represent the EANET in the RRC.AP Advisory Committee. The Pollution Control Department of Thailand nominated Dr. Pornsook Chongprasith, Director of Air Quality and Noise Management Bureau, who is the National Focal Point of Thailand as the representative from Thailand to represent the EANET in the RRC.AP Advisory Committee.

#### **II-4 Instrument for Strengthening the Acid Deposition Monitoring Network in East Asia (EANET)**

14. At the IG12, seven participating countries, namely Cambodia, Japan, Mongolia, Myanmar, Philippines, Republic of Korea, and Thailand signed the Instrument for Strengthening the Acid Deposition Monitoring Network in East Asia (EANET) during the High Level Segment. Since then the Secretariat made a follow-up with the remaining countries on the signing of the Instrument. Vietnam and China signed the Instrument after the IG13 whereas Lao PDR, Malaysia, and Russia signed the Instrument after the IG13. Russia is the latest participating country signing the Instrument on 1 September 2012. As of this date, there are a total of 12 participating countries out of 13 countries signed the Instrument. Indonesia is the remaining participating country not yet signing the Instrument.
15. Although not all participating countries of the EANET signed the Instrument, the Instrument was operational since 1 January 2012 in accordance with the Decision 1/IG.12 which decided that “the Instrument will become operational on the date on which all participating countries have signed it, or on 1st January 2012, whichever is earlier”.
16. At the IG13 on the EANET held in Hanoi, Vietnam, on 30 November – 1 December 2011, the Session decided to issue a resolution to encourage the countries not yet able to sign the Instrument to do so as soon as possible and invited the countries that have not been able to sign the Instrument to continue participating in the EANET activities before they could sign through written communication with the Secretariat.
17. On 24 May 2012, the Secretariat consequently communicated with Indonesia and Russia (at the time Russia had not signed the Instrument) to invite them to continue participating in the EANET activities before they could sign the Instrument by express their willingness through written communication with the Secretariat prior to the next IG scheduled to be in November of this year and to consider signing the Instrument as early as possible.
18. Russia sent an official letter on 26 July 2012, as presented in Annex 3, expressing its unconditional willingness to continue participating in the joint activities of the EANET and is making all possible efforts to ensure the promotion of the Instrument to be signed at the national level and will inform the EANET Secretariat on the reconciliation progress. Subsequently, Dr. Alexander V. Frolov, Head of Federal Service for Hydrometeorology and Environmental Monitoring signed the Instrument on 1 September 2012 on behalf of the Government of the Russian Federation, as presented in Annex 3.
19. Indonesia sent an official letter on 7 August 2012, as presented in Annex 3, extending its government strong commitment to maintain firm interest to participate in the joint activities of the EANET and is seeking necessary process for the possibility of signing the Instrument in due course. The Secretariat has communicated regularly with the National Focal Point of Indonesia to expedite the signing of the Instrument.

### **III. IMPLEMENTED/IMPLEMENTING ACTIVITIES**

#### **III-1 Acid Deposition Monitoring including QA/QC Activities**

##### **III-1-1 Development/Review of Monitoring Guidelines, Technical Manuals**

20. Technical Manual on Dry Deposition Flux Estimation (EANET/SAC 10/8/3/1), Technical Manual for Wet Deposition Monitoring in East Asia-2010 (EANET/SAC 10/8/4/1), and Technical Manual for Inland Aquatic Environment Monitoring in East Asia-2010 (EANET/SAC 10/8/5/1) were adopted at the IG12. These manuals were uploaded on the EANET website in July 2012 and was printed and distributed to the relevant organizations in the participating countries.
21. Preparation of the Technical Manual for Air Concentration Monitoring was started at the First Meeting of the Expert Group on Preparation of the Technical Manual for Air Concentration Monitoring in August 2011 and the Second Meeting was held on 23-24 August 2012 in Niigata, Japan. (See paragraph 36).

##### **III-1-2 Implementation and Coordination of QA/QC Activities**

###### **EANET Inter-laboratory Comparison Projects**

###### **(Inter-laboratory Comparison Projects in 2010)**

22. The NC published the Report of Interlaboratory Comparison Project 2010 (the 13<sup>th</sup> project on wet deposition, the 6<sup>th</sup> project on dry deposition (filter pack method), the 12<sup>th</sup> project on soil and the 11<sup>th</sup> project on inland aquatic environment), and distributed it to the participating laboratories in January 2012.

###### **(Inter-laboratory Comparison Projects in 2011)**

23. The NC distributed samples for the 14<sup>th</sup> Inter-laboratory comparison project on wet deposition, the 7<sup>th</sup> project on dry deposition (filter pack method), the 13<sup>th</sup> project on soil and the 12<sup>th</sup> project on inland aquatic environment to the participating countries in October 2011. The result of the projects in 2011 was discussed at the Thirteenth Senior Technical Managers' Meeting on the EANET (STM13) held in August 2012 and will be submitted to the Twelfth Session of the Scientific Advisory Committee (SAC12) in November 2012.

###### **(Inter-laboratory Comparison Projects in 2012)**

24. The NC distributed samples for the 15<sup>th</sup> Inter-laboratory comparison project on wet deposition, the 8<sup>th</sup> project on dry deposition (filter pack method), the 14<sup>th</sup> project on soil and the 13<sup>th</sup> project on inland aquatic environment to the participating countries in October 2012.

### **Other Inter-laboratory Comparison Projects**

25. Several EANET laboratories in Japan, Philippines, Russia, Thailand and Vietnam also participated in the international inter-comparison 2011-2012 organized by the Convention on Long-range Transboundary Air Pollution (CLRTAP), the International Cooperative Programme on Assessment and Monitoring of Acidification in Rivers and Lakes (ICP-Waters), and etc.

### **III-2 Compilation, Verification, Evaluation, Storage & Provision of Data and Relevant Information**

#### **(Data Report 2010/2011)**

26. The NC published the Data Report 2010 in November 2011 and distributed it to the NFPs, National Centers, SAC members and other relevant organizations in January 2012. Most of the participating countries have already submitted their 2011 monitoring data to the NC. The NC is in the process of checking and verifying the data.
27. In accordance with the Detailed Mechanism of Article 4 of the Procedures on Data and Information Disclosure for EANET, all the EANET monitoring data up to 2009 were disclosed outside of the EANET from January 2012. The raw data of 2010 will be disclosed in January 2013.
28. The Data Report 2011 was discussed at the STM13 and will be submitted to the SAC12.

### **III-3 Enhancement of Data Analysis and Assessment**

#### **Development of the Second Periodic Report on the State of Acid Deposition in East Asia (PRSAD2)**

29. PRSAD2 was approved at the Eleventh Session of the Scientific Advisory Committee (SAC11) held in October 2011 in Ho Chi Minh, Vietnam, and endorsed at the IG13 held in November/December 2011. It was published in March 2012, distributed to the NFPs, SAC members and other related organizations and experts, and issued on the following EANET website: <http://www.eanet.cc/product/index.html>.

### **III-4 EANET Meetings**

#### **III-4-1 Intergovernmental Meeting (IG)**

30. The IG on the EANET held its Thirteenth Session (IG13) in Hanoi, Vietnam on 30 November and 1 December 2011. Major outcomes of the IG13 are as follows:
  - The Session adopted the Final Report on the Implementation of the Strategy on EANET Development (2006-2010), and the Work Program and Budget for the EANET in 2012.

- The Session endorsed the following,
  - the Progress Report of the EANET since the Twelfth Session of Intergovernmental Meeting (IG12) on the EANET,
  - the Financial Report of the Secretariat and the NC in 2010,
  - the Report on the Outcomes of the Eleventh Session of the Scientific Advisory Committee (SAC11), and
  - Part I (Regional Assessment), Part II (National Assessments), and the revised Executive Summary (Part III) of the Second Periodic Report on the State of Acid Deposition in East Asia (PRSAD2) with understanding that the comments made by some countries will be fully incorporated into the PRSAD2 before its publication by the end of January 2012. (The PRSAD2 was printed in March 2012 and distributed to the National Focal Points (NFPs), the SAC members and other relevant members/organizations by the NC, and uploaded on the EANET website in April 2012)

31. Other major discussions and decisions during the Session also include the following:

- decided that major meeting documents should be uploaded on the EANET website. The Secretariat and the NC should develop a criterion for uploading and classifying priority documents in a stepwise manner.
- suggested to develop the new guidelines on administrative and financial management for the Secretariat and the NC which would replace the present guidelines adopted by the Seventh Session of the Intergovernmental Meeting (IG7) on the EANET in 2005.
- suggested that rules and procedures on budgeting should be developed.
- proposed to selectively take the Recommendations of Executive Summary of PRSAD2 related to the future development of the EANET into the discussions of the next WGFD and SAC Sessions.
- recommended the WGFD to discuss the issues on expansion of the scope, including the possible way to make use of the review to be conducted by the TFRC.
- decided to issue a resolution to encourage the countries not yet able to sign the Instrument to do so as soon as possible.
- invited the countries that have not been able to sign the Instrument to continue participating in the EANET activities before they could sign. The countries could do so through written communication with the Secretariat.
- suggested that the issue of renaming the IG should be discussed at the next IG (IG14) considering the operation of the Instrument on 1 January 2012.
- suggested that the savings should be used for the activities on public awareness with consideration on the work program of 2012.

- decided that the budget item of the “Promotion of Public Awareness” in 2012 will be supported from the account of savings with amount of US\$ 50,000.

### **III-4-2 Working Group on Future Development of the EANET (WGFD)**

32. The Eleventh Session of the WGFD (WGFD11) was held in Chonburi, Thailand on 7-8 August 2012. Major discussions and comments included the following;

(i) Review on the Draft Report on the Progress of the EANET since the Tenth Session of the WGFD (WGFD10) and the Draft Financial Report of the Secretariat and the NC in 2011

- The financial situation of the EANET in 2011 was in deficit which was because some participating countries either did not make financial contribution or made financial contribution less than the expected amount.
- Due to the budget constraint in 2011, the Workshop on Capacity Building for Information and Communication Technologies for the EANET was cancelled.
- The Secretariat made a request to the participating countries to make additional financial contribution for the 2011 budget in order to make up for the deficit.
- The participating countries are then encouraged to make financial contribution to the EANET according to the estimated amounts for each participating country as early in the year as possible for the effective implementation of the EANET activities and financial management, in particular to prevent cash flow problem.
- It was suggested to suspend the use of the saving of US\$ 50,000 for the Promotion of Public Awareness under the Work Program and Budget in 2012.
- It was suggested that the saving should be used for emergency purposes or responding to unexpected situation, not for supporting the EANET regular activities.

(ii) Review on the Draft Report on the Review of the Performance of the Secretariat and the NC (2010-2011)

- It was suggested to cover a broader range of air pollution issues in the public awareness activities, not focusing only on acid deposition.
- It was clarified that the Report for the Policy Makers is used as a mean to raise awareness of the policy makers on the acid deposition issue.

(iii) Consideration on the Revised Draft Guidelines on Administrative and Financial Management for the Secretariat and the NC

- The Medium Term Plan (MTP) for the EANET was suggested to be uploaded on the EANET website.
- It was suggested that the Procedure for Establishing Task Force and Expert Groups



under the SAC of the EANET approved at the IG10 should be included in the draft Revised Guidelines.

- It was suggested to include the explanation of the reasons on the difference between the budget and the actual expenditure in the annual financial reports.
- It was suggested that the savings could be used for the activities as decided by the IG without any specification on public awareness activities.
- In order to facilitate the internal process of the participating countries in requesting the financial contribution to the EANET, the flat/fix amount of contribution for the MTP period was suggested regardless of the change of the UN assessment scale of burden sharing.

(iv) Review on the Implementation of the Instrument for Strengthening the EANET

- Russia and Indonesia sent their written communication to the Secretariat expressing their willingness to continue participating in the EANET activities and informing that they are proceeding with the necessary national processes for the signing of the Instrument for Strengthening the Acid Deposition Monitoring Network in East Asia (EANET).
- It was emphasized that the signing of the Instrument by the two remaining countries is at the highest priority. It was suggested that the Secretariat should do its best efforts to facilitate such signing before the Fourteenth Session of the Intergovernmental Meeting (IG14).
- The nature of the involvement of the participating countries unable to sign the Instrument will be discussed and considered at the IG14.
- Regarding the issue of renaming of the IG, SAC and STM, most of the participating countries expressed their preference to continue the numbering of the IG, SAC and STM after the operation of the Instrument, e.g. the next IG in 2012 will be named as “the Fourteenth Session of the Intergovernmental Meeting (IG14) on the EANET”.

(v) Consideration on the Future Development of the EANET

- It was suggested for the IG to request the Secretariat to prepare a review report on the arrangement of the Secretariat taking into account the new MoU between UNEP and AIT for the consideration of the IG in 2013 since the new MoU has implications on the current arrangement of the Secretariat at the RRC.AP at AIT. Such a report should include necessary information for the participating countries to assess the advantages and disadvantages of different options.
- UNEP Regional Office for Asia and the Pacific (ROAP) expressed its willingness to support the EANET if it is so decided by the participating countries. However, UNEP is required to comply with the UN rules and procedures in the provision of the Secretariat to the EANET, and UNEP is willing to discuss with the EANET and

AIT to explore possible flexible arrangements through RRC.AP of AIT based on a sound legal basis and in a cost-effective way.

- On the Terms of Reference (TOR) of the WGFD for 2013-2014, it was suggested to either include another task to the WGFD in 2014 to prepare a TOR of the WGFD for 2015 or extending the term of the WGFD for a period of three years (2013-2015) in order to conform with the current 5-year MTP for the EANET (2011-2015).
- The issue was raised on the status of the WGFD whether its main tasks should be reassigned to other existing bodies or it should be a permanent subsidiary body of the IG. It was suggested to further discuss this issue including the renaming of the WGFD in the next sessions of the WGFD.
- The participating countries are still having different view on the expansion of the scope of the EANET. Emphasis was given to the importance of ozone, PM<sub>2.5</sub>, and black carbon (BC), taking account of their impacts to human health and linkage to climate change. Monitoring of ozone and PM<sub>2.5</sub>, in a step by step approach, could be discussed.
- It was suggested that the Secretariat and the NC should provide further information in order that the participating countries could share the common understanding of the current scope of the EANET and to strengthen the EANET through research components, such as further analysis of the impacts of acid deposition.

(vi) Review on the Draft Work Program and Budget of the EANET in 2013

- Some more initiatives or programs, such as Climate and Clean Air Coalition to Reduce Short-Lived Climate Pollutants Initiative (CCAC), Atmospheric Brown Cloud (ABC) Project, Asian Co-benefit Partnership (ACP), could be included in activity on the cooperation with relevant organizations.
- It was suggested that in light of budgetary situation, some activities such as technical missions, fellowship, communication with other research organization, could be “subject to availability of funds”.
- Due to the financial deficit of the Secretariat, it was suggested to postpone the fellowship program at the NC.
- It was proposed that a paragraph to encourage participating countries to make their contribution should be inserted.
- It was suggested that the operation of the Instrument could be used as a basis for the agency responsible for the EANET in requesting budget from the government for the financial contribution to the EANET.

(vii) Other Issues

- It was agreed that the SAC12 and the IGIG14 in 2012 will be held back-to-back in November of this year in Rangoon, Myanmar for cost saving reason.

- The Secretariat made a Proposal on an Advisor for the Secretariat for the EANET to be adopted by the IG14.
- The Session expressed its appreciation to the works of the CAI-Asia which would provide a good opportunity for the collaboration with the EANET.
- The Asia Center for Air Pollution Research (ACAP) made a presentation on the proposal of Asia Science Panel on Air Quality (ASPAQ). ASPAQ is proposed aiming at the synthesis of scientific knowledge on air pollution in Asia. It was stressed that establishment of common understanding among scientists and policy makers is a prerequisite to achieve an international agreement for a framework of atmospheric management, and that reflection of the Asian scientists' view to the international initiatives such as hemispherical air pollution mitigation and Short-Live Climate Pollutants (SLCP) co-benefit/co-control approach would be important.
- UNEP briefed the Session on the progress regarding the Atmospheric Brown Clouds (ABC) Programme. The next ABC Science Team meeting, scheduled for September 2012, will discuss transforming the ABC Programme into knowledge-to-action network. The participant countries were encouraged to send their comments on how the ABC Programme can support the national level activities and the EANET activities to UNEP.
- Financial contribution for 2012 was delivered to the Secretariat and the NC from Lao PDR and to the NC from Vietnam during the Session by the representatives of Lao PDR and Vietnam.

#### **III-4-3 Senior Technical Managers' Meeting (STM)**

33. On 14 February 2012, the NC sent an invitation letter to all the NFPs of the EANET participating countries to host the STM13. Since only Vietnam had expressed their interest to host the meeting, it was decided that the STM13 be held in Hanoi, Vietnam. The STM13 was held on 30-31 August 2012 in cooperation with the Government of Vietnam. Major discussion items of the STM13 were as follows:

- Report on the progress of the EANET since STM12;
- Overview of the preliminary draft Data Report 2011;
- Evaluation for the results of the Inter-laboratory Comparison Projects in 2011;
- Consideration of the National Monitoring Plans (NMPs) and current monitoring activities for the EANET monitoring of the participating countries;
- Consideration of the Quality Management Guidebook for the EANET;
- Report on the technical activities of the EANET; and
- Other issues.

34. The STM13 discussed Draft Quality Management Guidebook for the EANET to be submitted to the Session of the SAC12 for its consideration. In the discussion designation of the Technical Managers was newly proposed in the Guidebook. It was suggested that the roles and nature of the Technical Manager should be more clearly stipulated in the Guidebook. This issue will be reported and discussed at Agenda Item 9, Consideration on Draft Quality Management Guidebook of the EANET.

#### **III-4-5 Task Forces and Expert Groups established under the SAC**

35. The NC has continued its tasks as the secretariat of the Task Forces and Expert Groups (TFs/EGs) established under the SAC. The NC contacted the Chairpersons of the TFs/EGs to discuss on dates, agenda of the TFs/EGs meetings and also membership of TFs/EGs accordingly. The latest Chairpersons and members of the TFs/EGs, and schedule of their meetings in 2012 are attached as Annex 4.
36. After the SAC11, the following TFs/EGs meetings were held to discuss the important issues of each TF or EG in accordance with the TOR, future plan, and etc.
- (1) Fourth Meeting of the Task Force on Research Coordination (TFRC) (11 October 2011, Ho Chi Minh, Vietnam)  
Review of the status of air pollution in East Asia was discussed. Reports of the Research Fellowship in 2010, current research projects of the NC, and future research areas of the EANET, and etc. were also discussed.
  - (2) The Second Meeting of the Expert Group on Preparation of the Technical Manual for Air Concentration Monitoring (EGACM2) (23-24 August 2012, Niigata, Japan)  
The meeting discussed the first draft of the Technical Manual, future schedule and so on for submission the revised first draft to the SAC12.
37. Based on the discussion at the IG13, the TFRC is preparing the “Review of the Status of Air Pollution in East Asia”. The Reviewing Committee that consists of several experts on atmospheric environment was already established under the TFRC. The review will be made by the Committee first.

#### **III-4-6 Publication of Proceedings, Summaries of the EANET Meetings**

38. After the SAC11, publications of the proceedings and summaries of the following meetings were completed and distributed to the participating countries and participants of the Sessions:
- The Thirteenth Session of the Intergovernmental Meeting (IG13)
  - The Eleventh Session of the Scientific Advisory Committee (SAC11)
  - The Tenth Session of the Working Group on Future Development of the EANET (WGFD10)

- The Twelfth Senior Technical Managers' Meeting (STM12)
- The Eleventh Session of the Working Group on Future Development of the EANET (WGFD11)

### **III-5 Communication with Participating Countries, etc.**

39. The Secretariat received communications from some the NFPs regarding a few changes on institutional bodies of the EANET in their respective countries, e.g. NFPs, SAC members, etc. from time to time and circulated this information to all concerned. In April 2012, the Secretariat circulated the request to the NFPs on the updates of the NFPs, the National Centers, the SAC Members, and the QA/QC Managers after the Instrument becomes operational.
40. The Secretariat and the NC maintained close communication with the participating countries in all related activities of the EANET as well as relevant international organizations such as the United Nations Economic Commission for Europe (UNECE).
41. The NC also communicated with participating countries regarding scientific and technical issues to improve monitoring and assessment of acid deposition in the region.

### **III-6 Technical support and capacity building activities**

#### **III-6-1 EANET Training**

##### **EANET Individual Training at the NC**

42. One trainee each from Lao PDR and the Philippines participated in the EANET individual training course at the NC from 30 January through 17 February 2012. They received training on wet deposition, dry deposition, soil/vegetation and inland aquatic environment monitoring, and data management. Although the NC intended to invite also a trainee from Vietnam, the candidate couldn't visit Japan due to a specific issue in his/her country.

##### **JICA Country Focused Training Course**

43. The JICA Country Focused Training Course on Capacity Building on Acid Deposition and Impact Assessment Analysis was held on 5-16 March 2012 in Tokyo, Niigata, etc. Around twenty technical staff from the Pollution Control Department (PCD), the Royal Forest Department (RFD) and the Meteorological Department (MD), Environment Research and Training Center (ERTC) etc., Thailand attended.

##### **Questionnaire Survey for Training Activities in 2011**

44. In June 2012, the NC implemented the Annual Questionnaire Survey on Training Activities in

2011 carried out by the participating countries. The information gathered from the questionnaire on training requirements and suggestions on new training areas are useful for planning of the future training activities of the EANET. Twelve participating countries replied their national training activities in 2011. The results including the requests from the participating countries were summarized as Annex 5.

#### **Modeling and Emission Inventory Training Workshop**

45. The Modeling and Emission Inventory Training Workshop” was held from 30 January to 3 February 2012 at the NC in Niigata, Japan. The objectives of this workshop were to learn the basic knowledge and fundamental skill to use the long-range chemical transport model and develop the emission inventory of air pollutants. Particularly, the lectures in the first two days were focused on the policy application of the atmospheric modeling. Around 20 participants from 11 EANET participating countries attended the training workshop.

### **III-6-2 Support to Participating Countries**

#### **Dispatch of Technical Missions**

46. After the SAC11, the NC dispatched technical missions to Indonesia (February 2012), Lao PDR (May 2012), Myanmar (May 2012) and Philippines (July 2012) to exchange information, provide technical advice and assess the suitability of proposed EANET monitoring sites. The mission members also checked the condition of the instruments provided to countries. The summary of the technical missions of the NC to the participating countries after the SAC11 is attached as Annex 6.

#### **Technical Support for the Participating Countries**

47. The NC provided assistance to Cambodia, Indonesia, China, Lao PDR, Malaysia, Mongolia, Myanmar, Philippines, Russia and Vietnam in 2011 and/or 2012 for their monitoring activities in addition to dissemination of the latest information, provision of consumable, equipment such as filter pack kit, water distillation system, etc.

### **III-6-3 Workshop for the Capacity Building for Information and Communication Technologies for the EANET (ICT Workshop)**

48. The Workshop for the capacity building for information and communication technologies for the EANET (ICT Workshop) planned in the Work Program and Budget in 2011 approved by the IG12 was postponed due to flooding situation in Thailand. The ICT Workshop was eventually cancelled after consultation with the NFPs from the participation countries and the NC due to the lack of budget.

### **III-7 Research Activities**

49. The research activities of the EANET are important and crucial for the evaluation of the environmental impacts of acid deposition on the region's diverse ecosystem, the improvement of the monitoring methodologies, and the development of analytical methods suitable for East Asia. The NC performed research activities with consideration of the regional characteristics.

#### **III-7-1 EANET Research Fellowship Program**

##### **(Fellowship Research in 2011)**

50. In July 2011, the NC sent a letter to the NFPs and the SAC members inviting applicants for the research fellowship in 2011. The NC received 7 applications from 5 countries namely China, Indonesia, Malaysia, Mongolia and Thailand. The Selection Committee of the NC decided to invite two researchers from China and Malaysia. The research topic of the researcher from China was "Improvement of QA/QC Activities for Air Monitoring in China", and the research topic of the researcher from Malaysia was "Effect of Simulated Acid Rain (SAR) on Leachate and Selected Chemical Characteristics on the Soil". The fellowship research was carried out successfully from the end of October to the end of December 2011. The scientific reports are expected to be submitted to the NC within a few months.

##### **(Fellowship Research in 2012)**

51. In July 2012, the NC sent a letter to the NFPs and the SAC members inviting applicants for the research fellowship in 2012. The deadline of the application was 12 August 2012. In response to the invitation letter, the NC received 7 applications from 7 countries namely Cambodia, China, Lao PDR, Mongolia, Myanmar, Russia and Thailand. The Selection Committee of the NC considered the proposed research plans submitted by the applicants and decided to invite two researchers from China and Thailand. Duration of the fellowship research in 2012 in the ACAP is for approximately two months, since 15 October to the middle of December 2012. However fellowship research in 2012 by a researcher from China was canceled after official invitation due to specific reasons in the country. The draft research topic of the researcher from Thailand is "Comparison of aerosol and rainwater composition in urban and rural areas and their relationship to emission characteristics in Thailand".

#### **III-7-2 Joint Research Project on Catchment Analysis with Thailand, Malaysia and Japan**

52. Catchment analysis is one of the issues described in the Strategy Paper for Future Direction of Soil, Vegetation and related Ecosystems Monitoring of the EANET (2009-2014). The NC has carried out the Joint Research Project on the Catchment Analysis in Thailand with the Royal Forest Department (RFD) and the Environmental Research and Training Center (ERTC), in Malaysia with the Malaysian Meteorological Department (MMD), and in Japan with Niigata Prefecture and Niigata University. Part of the project was supported financially by the Environment Research and Technology Development Fund (ERTDF) of the Ministry of

Environment (MOE), Japan until March 2011 which was the end of the Japanese fiscal year (JFY) of 2010. Although the financial support from ERTDF was ended, some parts of the project have been implemented by the relevant organizations after April 2011.

### **III-7-3 Joint Research Project on Comparison Study for Filter-Pack Method with Republic of Korea**

53. The project has been carried out with the aim of comparing the 3-stage filter pack method and the 4-stage filter pack method in the Republic of Korea and Japan, etc. Intensive monitoring was conducted in April 2012. After sample analysis and compiling the data, the data will be exchanged between the National Institute of Environmental Research (NIER), Republic of Korea and the NC in line with the agreement. Subsequently, monitoring results will be discussed.

### **III-7-4 International Workshop on Atmospheric Modeling Research in East Asia**

54. The Third International Workshop on Atmospheric Modeling Research in East Asia was held on 24-25 September 2011 in Chengdu, China based on the outcomes at the Model Inter-Comparison Study (MICS) workshops. After the reviewing of the recent observation and modeling researches in East Asia, the research plan on MICS-Asia, Phase III activities were developed: (i) Multi-scale integrated models of global, regional and urban scales, and model inter-comparison, source/receptor analysis, and collaboration among MICS-Asia activity members, (ii) Inter-comparison of emission inventories, (iii) Interaction between air quality and climate change in the view of the model inter-comparison.
55. A Meeting for MICS-Asia Phase III work plans was held in July 2012 in Beijing, China. Leaders of each topic prepared the draft work plan based on the discussion. In this meeting, further details of work plans were discussed and fixed for the start of model simulations. Through the discussions, first work plans were basically fixed. Furthermore, in the general discussions, basic schedules of this fiscal year including candidate month (February 2013) and venue (Kunming, China) for the 4<sup>th</sup> workshop were determined.

### **III-8 Public Awareness Activities**

#### **III-8-1 National Public Awareness Workshop**

56. In order to increase the national public awareness on the issue of acid deposition and the EANET, National Public Awareness Workshops and Youth Workshop were held in the Philippines in December 2012. The participants from governmental agencies, international organizations, high schools, universities and educational institutes, and private sectors were invited. The National Public Awareness Workshops was also held in Lao PDR in March 2012. The participants from governmental agencies, etc. were invited. The national monitoring activities on acid deposition, the progress of the EANET, and future requirement for



cooperation, among others, were discussed during the workshops.

### **III-8-2 The Tenth Workshop on Public Awareness for Acid Deposition Problems**

57. The Tenth Workshop on Public Awareness for Acid Deposition Problems was held in Niigata, Japan, on 29 February and 1 March 2012, organized by the NC, in collaboration with the Niigata Prefectural Environment Conservation Corporation (NPECC), Japan.
58. The Workshop consisted of two sessions: The Special Session (The 1st Session), “Environmental Conference of School Children” was attended by approximately ninety school children and teachers from an elementary school of Indonesia and two elementary schools of Japan, and approximately fifty participants and observers from twelve participating countries. The Session was held in the morning and afternoon of 29 February 2012 at “Toki Messe” in Niigata, Japan. The 2nd Session “Promotion of Public Awareness on Acid Deposition Problems in East Asia” held at the ACAP on 1 March 2012 was attended by approximately forty participants and observers from the participating countries and resource persons.

### **III-8-3 Joint Project on the Environmental Study Activities**

59. The NC undertook the joint project with Indonesia to support their environmental study activities on acid deposition in schools in 2011. The draft outline of the joint environment study project was explained and confirmed with the committee of Indonesia. The model lecture/experiments were implemented as the first step of the program in the selected elementary school such as the conception of the circulation of water and pH, creating the acid rain, etc.

### **III-8-4 Dissemination of Information through EANET Website**

60. New information has been uploaded on the EANET website such as publication (e.g. the Second Report for Policy Makers, Fact Sheets, Data Report 2010 and Inter-laboratory comparison projects 2010), EANET Newsletter (Vol. 10, 11, and 12), EANET Science Bulletin (Vol. 2), EANET meeting reports, monitoring site information, and so on.
61. Based on the discussion at the WGFD10, the SAC11 and the suggestion from the IG13, “Criteria for uploading EANET documents” to the website were drafted as a part of the “Revised Draft Guideline on Administrative and Financial Management for the Secretariat and the Network Center”. Revised draft guideline was discussed at the WGFD11 held in August 2012 Chonburi, Thailand. Some recommendations were made for the consideration at the Session of the IG14 on the EANET in November 2012 which will be considered in Agenda Item 9 of the IG14. Based on the discussion at WGFD11, “Criteria for uploading EANET documents” in the Revised Draft Guidelines attached as Annex 7 were also slightly revised.

### **III-8-5 Publication of Newsletters**

62. The EANET Newsletters dated December 2011 (Vol. 11) and June 2012 (Vol. 12) were published by the Secretariat in collaboration with the NC and distributed to the participating countries.

### **III-9 International Cooperation**

#### **III-9-1 Long-Range Transboundary Air Pollutants in Northeast Asia (LTP)**

63. The NC has been participating in the International Joint Research of LTP between the Republic of Korea, China, and Japan. The NC representatives attended the 14<sup>th</sup> Expert Meeting for Long-range Transboundary Air Pollutants in Northeast Asia, organized by the NIER, Republic of Korea, and held in Pyeongchang, Republic of Korea on 8-10 November 2011. The reports on monitoring and modeling activities in each country were presented by the experts of three countries. Achievements of the LTP project and the activities in 2011 were reported. In order to discuss the activities in the Phase IV, a Task Force was established. Administrative staff and scientists from three countries were nominated as the members of the Task Force. The Task Force Meetings were held three times and the Expert Meeting was also held back to back with the Third Meeting of the Task Force.

#### **III-9-3 CLRTAP Meeting**

64. The NC attended the 29<sup>th</sup> Session on the Executive Body for the Convention on Long-range Transboundary Air Pollution (EB-CLRTAP) held on 12-16 December 2011 in Geneva, Switzerland and exchanged information and views on transboundary air pollution issues. Revision of Annex II (Emission ceilings and emission reduction obligations for 2020 and beyond) and so on were discussed at the Session.

## **IV. CHALLENGES/PROBLEMS/SOLUTIONS IN EANET IMPLEMENTATION**

65. The total expenditure of the Secretariat and the NC in 2011 was more than the total financial contributions from the participating countries to the Secretariat budget and the NC core budget in 2011. This is because some participating countries either did not make the contributions or made the contributions less than the estimated amounts. Therefore, the participating countries of the EANET are encouraged to make voluntary financial contribution to the EANET according to the estimated amounts for each participating country since the estimated annual financial contributions for each participating country is calculated based on the adopted Work Program and Budget of each year and burden sharing as correspondent to the latest UN assessment scale.
66. The Secretariat and the NC recognized that the participating countries are in consensus of a

step-by-step approach regarding the EANET activities and all countries have different situations and conditions. Nonetheless, the major challenges of the EANET are the future development of the EANET with regard to the Secretariat and the expansion of the scope of the EANET. These two issues will be presented for discussion under Agenda Item 8.

67. No other serious problems have been encountered by the Secretariat and the NC in the implementation of the activities of the EANET during this period.

## **V. ACTIONS REQUIRED**

68. The SAC12 is invited to review the progress of the EANET since the SAC11 on the EANET and may wish to discuss, consider, provide guidance, make recommendations to the IG14 for its review, guidance and endorsement of the report.

**Annex 1**

**Table 1 - Voluntary Financial Contributions from the Participating Countries to the Secretariat in 2011 and 2012**  
(US\$)

Countries	2011 Budget		2012 Budget	
	Expected	Actual	Expected	Actual
Cambodia	71.00	71.00	66.30	66.30
China	73,942.00	15,000.00	69,027.00	15,000.00
Indonesia	5,519.00	---	5,152.70	---
Japan	290,526.00	290,526.00	271,216.00	---
Lao PDR	(24) 50.00*	---	(22) 50.00*	50.00
Malaysia	5,865.00	5,839.00	5,475.00	5,449.00
Mongolia	(47) 50.00*	50.00	(44.2) 50.00*	50.00
Myanmar	137.00	---	128.00	---
Philippines	2,088.00	2080.50	1,949.00	1,941.50
R.O. Korea	52,403.00	52,403.00	48,920.00	48,920.00
Russia	37,146.00	---	34,677.00	37,146.00
Thailand	4,843.00	4,843.00	4,520.80	4,520.80
Vietnam	767.004	950.00	716.00	950.00
<b>Total Contribution</b>	<b>473,407.00</b>	<b>371,762.50</b>	<b>441,914.00**</b>	<b>114,093.60</b>

\* Lao PDR and Mongolia are expected to make a minimum contribution of US\$ 50.00 based on the IG9 decision. (Ref. EANET/IG 9/7.rev1 Revised Procedures and Guidelines for Voluntary Financial Contributions to EANET).

\*\* The amount of contributions excludes the budget item on Public Awareness to be supported from account of Savings of the Secretariat for an amount of US\$50,000.00.

**Table 2 - Contributions from the Participating Countries to the NC  
in 2011/2012(US\$) (As of the end of October 2012)**

Countries	2011 Budget		2012 Budget	
	Expected	Actual	Expected	Actual
Cambodia	59	56	59	59
China	61,855	---	61,855	---
Indonesia	4,617	---	4,617	---
Japan	556,037	624,512	525,037	187,448
Lao PDR	20*	---	20*	50
Malaysia	4,907	---	4,907	---
Mongolia	40*	47.5**	40*	47.5**
Myanmar	115	---	115	---
Philippines	1,746	---	1,746	---
R. of Korea	43,837	---	43,837	---
Russia	31,074	---	31,074	---
Thailand	4,051	4,051	4,051	4,051
Vietnam	642	---	642	1,450
<b>Total</b>	<b>709,000</b>	<b>628,666.5</b>	<b>678,000</b>	<b>193,105.5</b>

\* Lao PDR and Mongolia are expected to make a minimum contribution of US\$ 50.00 based on the IG9 decision. (Ref. EANET/IG 9/7.rev1 Revised Procedures and Guidelines for Voluntary Financial Contributions to EANET).

\*\* These figures are after deduction of the overhead charge of 5% (US\$2.50) by Asian Institute of Technology (AIT).

**PROCEDURES FOR THE RECRUITMENT OF THE COORDINATOR /THE  
PROGRAMME OFFICER FOR THE SECRETARIAT OF ACID DEPOSITION  
MONITORING NETWORK IN EAST ASIA (EANET)**

**The following procedures will be used in recruiting the Coordinator/the Programme Officer of the Secretariat:**

- (i) The Secretariat will issue a vacancy announcement for the Coordinator/ the Programme Officer positions.
- (ii) The Secretariat will prepare a long list of all candidates and send to the participating countries (the National Focal Points) and the Network Center for their information.
- (iii) The Secretariat will establish a selection committee composed of the representative of EANET to AIT-RRC.AP Advisory Committee, senior representative from AIT, Director of RRC.AP. The committee will review the application forms of the candidates. The RRC.AP will serve as the Secretariat for the selection committee.
- (iv) The Secretariat will consult with the participating countries, through the National Focal Points, and the Network Center about the short-listed candidate within one month. Taking account of the comments by the participating countries and the Network Center, the selection committee will interview the candidates as appropriate, and select the final candidate with special attention to the recommended candidates from the participating countries.
- (v) AIT-RRC.AP will appoint the new Coordinator/the Programme Officer of the Secretariat for the EANET.

Annex 3

МИНИСТЕРСТВО ПРИРОДНЫХ РЕСУРСОВ  
И ЭКОЛОГИИ РОССИЙСКОЙ ФЕДЕРАЦИИ



MINISTRY OF NATURAL RESOURCES  
OF THE RUSSIAN FEDERATION

ФЕДЕРАЛЬНАЯ СЛУЖБА  
ПО ГИДРОМЕТЕОРОЛОГИИ  
И МОНИТОРИНГУ ОКРУЖАЮЩЕЙ  
СРЕДЫ

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FEDERAL SERVICE FOR  
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.....№.....

26.07.2012 № 80-90-93/1034

To the EANET Secretariat

UNEP RRC.AP  
Asian Institute of Technology (AIT)  
P.O. Box 4, KlongLuang  
Pathumthani 12120, Thailand  
•Tel: +66 (2) 5162124/5245365  
Fax: +66 (2) 5162125 /5246233

In accordance with the decision of the 13-th session of the Intergovernmental Meeting of Acid Deposition Monitoring Network in East Asia (EANET) the Federal Service for Hydrometeorology and Environmental Monitoring (Roshydromet) would like to inform the EANET Secretariat that Russia expresses its unconditional willingness to continue participating in the joint activities of EANET.

Noting the great importance of international research in the field of air pollution and acid deposition in East Asia as well as the significance of the cooperation development for environmental quality management Roshydromet is making all possible efforts to ensure the promotion of this international treaty to be signed at the national level and will inform the EANET Secretariat on the reconciliation progress.

Sincerely yours,

L.A. Shumakov

Deputy Head of Roshydromet

МИНИСТЕРСТВО ПРИРОДНЫХ РЕСУРСОВ  
И ЭКОЛОГИИ РОССИЙСКОЙ ФЕДЕРАЦИИ



MINISTRY OF NATURAL RESOURCES  
OF THE RUSSIAN FEDERATION

ФЕДЕРАЛЬНАЯ СЛУЖБА  
ПО ГИДРОМЕТЕОРОЛОГИИ  
И МОНИТОРИНГУ ОКРУЖАЮЩЕЙ  
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FEDERAL SERVICE FOR  
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.....№.....

27.09.2012, № 20-90-42/234M

To the EANET Secretariat  
UNEP RRC.AP  
Asian Institute of Technology (AIT)  
P.O. Box 4, KlongLuang  
Pathumthani 12120, Thailand  
Tel: +66 (2) 5162124/5245365  
Fax: +66 (2) 5162125 /5246233

Dear Sirs,

We would like to inform you that Head of the Federal Service for Hydrometeorology and Environmental Monitoring (Roshydromet) Dr. A. Frolov signed the Instrument for strengthening the acid deposition monitoring network in East Asia (EANET) on behalf of the Government of the Russian Federation on September 1, 2012.

Roshydromet was authorized to sign the "Instrument" on behalf of the Government of the Russian Federation by the Prime Minister of the Russian Federation Mr. Dmitry Medvedev (order № 1601-p. dated September 1, 2012).

Please find attached a copy of the signature sheet of the Russian side.

The signature sheet will be officially presented by the Head of the Russian delegation to the EANET Secretariat at the opening ceremony of the forthcoming Session of the Intergovernmental Meeting on EANET in Myanmar in November 2012.

We are looking forward to our further fruitful cooperation.

Sincerely yours,

I.A. Shumakov  
Acting Head of Roshydromet

Encl.: A copy of the signature sheet of the Russian Federation



Instrument for Strengthening the Acid Deposition Monitoring Network in East Asia

Page 21 of 23



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**Dr. Alexander V. FROLOV**

Head,

Federal Service for Hydrometeorology and Environmental Monitoring

On behalf of the Government of the Russian Federation

Russian Federation

Date *01.09.2012*



**KEMENTERIAN LINGKUNGAN HIDUP  
REPUBLIK INDONESIA**

JALAN DI. PANJAITAN, KEBON NANAS, JAKARTA 13410, INDONESIA • KOTAK POS 7777 JAT 13000  
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7 August 2012

Our Ref. : B- 199 E /Dep.III-4/LH/PPLH/08/2012  
Attachment : -  
Subject : The Government of the Republic  
Indonesia's Participation to the EANET

EANET Secretariat  
UNEP RRC AP  
Asian Institute of Technology (AIT)  
P.O Box 4, KlongLUang  
Pathumthani 12120, Thailand

Dear Dr. Supat Wangwongwatana,

Recognizing the successful programs and strong commitment of EANET at creating common understanding on acid deposition problems in order to prevent and reduce adverse impacts on the environment which caused by acid deposition in East Asia, and acknowledging the strong relations between Indonesia and EANET that has been closely cooperate to conduct acid deposition monitoring since the establishment of EANET, we would like to extend our government strong commitment to maintain firm interest to participate in the joint activities of EANET.

Realizing the above immense role of EANET, we would also like to inform the EANET Secretariat of our government effort to seek necessary process for the possibility of signing the Instrument in due course. All of the progress will duly be informed to the EANET Secretariat.

Director for Climate Change  
Mitigation and Atmospheric  
Function Preservation.

Ir. Sulistyowati, MM  
NIP. 19590416 199203 2 001

CC:  
Deputy Minister for Environment Degradation Control and Climate Change,  
Ministry of Environment (as report)

**Annex 4**

**Members of the Task Forces and Expert Groups under the SAC and Meeting Plan in 2012**

Name	Members	Meeting plan in 2012
Task Force on Monitoring for Dry Deposition	Dr. Cho Seog-Yeon (R. of Korea) - <b>Chairperson</b> Mr. Chhek Roth/ Mr. Kong Savuth (Cambodia) Dr. Li Jianjun (China) Ms. Rina Aprishanty (Indonesia) Dr. Shiro Hatakeyama (Japan) Ms. Setouvanh Phanthavongsa (Lao PDR) Ms. Maznorizan Mohamad (Malaysia) Ms. B. Altantuya (Mongolia) Ms. Htwe Htwe Win (Myanmar) Engr. Jean N. Rosete (Philippines) Dr. Chang Lim-Seok (Republic of Korea) Dr. Tamara V. Khodzher (Russia) Dr. Pojanie Khummongkol (Thailand) Dr. Duong Hong Son (Vietnam)	-
Task Force on Soil and Vegetation Monitoring	Dr. Wilfredo M. Carandang (Philippines) - <b>Chairperson</b> Mr. Haijiang Liu (China) Dr. Masamichi Takahashi (Japan) Dr. Nik Abdul Majid/Dr. Ahmad Makmum Abdullah (Malaysia) Dr. Apolonio M. Ocampo (Philippines) Dr. Kim Hye-Jin (Republic of Korea) Dr. Tatiana A. Mikhailova (Russia) Mr. Bopit Kietvuttinon (Thailand) Dr. Hiroyuki Sase (ACAP)	-
Task Force on Monitoring Instrumentation	Prof. Wang Ruibin (China) - <b>Chairperson</b> Mr. Chhek Roth (Cambodia) Mr. Zheng Haohao (China) Ms. Novy Farhani (Indonesia) Dr. Tsuyoshi Ohizumi (Japan) Ms. Setouvanh Phanthavongsa (Lao PDR) Ms. Siniarovina Urban (Malaysia) Mr. Barkhasragchaa Baldorj (Mongolia) Ms. Htwe Htwe Win (Myanmar) Engr. Arturo Bongco /Engr. Robert Co (Philippines) Dr. Ahn Joon-Young (Republic of Korea) Dr. Sergey Paramonov (Russia) Ms. Wassana Toruksa (Thailand) Mr. Tran Son (Vietnam)	-

Name	Members	Meeting plan in 2012
Task Force on Research Coordination	Dr. Sergey Gromov (Russia) - <b>Chairperson</b> Prof. Wang Ruibin (China) Dr. Hiroshi Hara (Japan) Prof. Katsunori Suzuki (Japan) Dr. Elizabeth Phillip (Malaysia) Dr. Cho Seog-Yeon (R. of Korea) Dr. Wilfredo M. Carandang (Philippines) Dr. Tamara Khodzher (Russia) Dr. Pojanie Khummongkol (Thailand) Dr. Duong Hong Son (Vietnam) Dr. Hajime Akimoto (ACAP)	5 <sup>th</sup> Meeting on 21 November 2012 in Yangon, Myanmar (back to back with SAC12)
Expert Group on Dry Deposition Flux Estimation	Dr. Pojanie Khummongkol (Thailand) - <b>Chairperson</b> Dr. Kazuhide Matsuda (Japan) Dr. Kentaro Hayashi (Japan) Dr. Akira Takahashi (Japan) Dr. Hiromasa Ueda (Japan) Dr. Chang Lim-Seok (R. of Korea)	-
Expert Group on Revision of Technical Manual on Wet Deposition Monitoring	Dr. Hiroshi Hara (Japan) - <b>Chairperson</b> Dr. Tsuyoshi Ohizumi (Japan) Mr. Izumi Noguchi (Japan) Ms. Leong Chow Peng (Malaysia) Ms. Bulgan Tumendemberel (Mongolia) Dr. Ahn Joon-Young (R. of Korea) Dr. Hathairatana Garivait (Thailand) Dr. Dave Mactavish (WMO/Canada)	-
Expert Group on Revision of Technical Manual on Inland Aquatic Environment Monitoring	Dr. Tamara Khodzher (Russia) - <b>Chairperson</b> Dr. Simon S. Brahmanna (Indonesia) Dr. Senichi Ebise (Japan) Dr. Haruo Fukuhara (Japan) Dr. Vu Van Tuan (Vietnam) Prof. Seiichi Ohta (Japan) Prof. Tomonori Kawakami (Japan) Dr. Hiroyuki Sase (ACAP)	-
Expert Group on Preparation of Technical Manual for Air Concentration Monitoring	Dr. Duong Hong Son (Vietnam) – <b>Chairperson</b> Prof. Min Hu (China) Dr. Masahide Aikawa (Japan) Mr. Hajime Mikasa (Japan) Dr. Akinori Takami (Japan) Prof. Kihong Park (Republic of Korea) Mr. Phunsak Theramongkol (Thailand)	2 <sup>nd</sup> Meeting on 23-24 August 2012 in Niigata, Japan

**Annex 5**

**National Training Activities in the Participating Countries of EANET in 2011**

<b>Country</b>	<b>Title of Training Course</b>	<b>Duration</b>	<b>No. of Participants</b>	<b>Major Topics</b>
<b>Cambodia</b>	Measurement and analysis of atmospheric air pollution by passive method	16 November 2011 (1 day)	15	Method to prepare the passive sampler of NO <sub>x</sub> and NO <sub>2</sub> .
	Training workshop	1 day	15	Measurement and analysis of atmospheric air pollution
<b>China</b>	Training on acid deposition monitoring	7-8 November 2011	55	Acid deposition monitoring, QA/QC activities, data gathering and processing, acid deposition assessment.
<b>Indonesia</b>	Meeting	1 day	20	Evaluation on acid deposition monitoring data 2010
<b>Japan</b>	Training of atmospheric and traffic environment	27 Sep. 2011 - 30 Sep. 2011 (3 days)	98	Atmospheric and traffic environment
	Training of equipment operation	20 June 2011 - 1-July-11 (10 day(s))	43	Equipment operation training
	Training of atmospheric monitoring	28-Feb - 11-Mar(10days)	8	Sampling/analytical methods for atmospheric monitoring
	Audit (inspection and guidance) of national monitoring sites, including EANET monitoring sites	35 days	66	Site and laboratory audit

Country	Title of Training Course	Duration	No. of Participants	Major Topics
Lao PDR	None	-	-	-
Malaysia	Training course on Aspect of Air Pollution Observation	13-19 March 2011 (7 days)	30	Air pollution - Acid deposition - Instruments troubleshooting - Calibration - QA/QC - Aerosol monitoring
	The air pollution model (TAPM) training course	17-19 October 2011 (3 days)	13	Overview of Malaysian Haze Study & role of TAPM - Overview & conceptual introduction to meteorological & air dispersion component - Demonstration on TAPM - Hands-on TAPM - Technical basis for TAPM components & algorithm
	Training course for ion chromatography	12-13 April 2011 (2 days)	1	IC theory, maintenance, troubleshooting and software
Mongolia	Environmental monitoring and program, soil monitoring and database	18-28 April 2011 (10 days)	22	How to soil monitoring and database
	Environmental monitoring, water quality and air quality monitoring, QA/QC operation	2-13 May 2011 (10 days)	15	To develop QA/QC operation
	Seminar	2 days	30	Urban air pollution analysis for Ulaanbaatar
	Workshop	3 days	28	Improving air quality to reduce health impacts

Country	Title of Training Course	Duration	No. of Participants	Major Topics
Myanmar	Initial training for the implementation of dry deposition monitoring	9 -11 November 2011 (3 days)	14	<ul style="list-style-type: none"> <li>- Methodologies for sampling and analysis of dry deposition monitoring</li> <li>Preparation of the filter packs and installation the instruments of filter packs,</li> <li>- QA/QC and data reporting, including check on condition of analytical instruments,</li> <li>Practice on sampling and analysis for dry deposition monitoring.</li> </ul>
	World Meteorological Day	23 March 2012 (1 day)	150	National monitoring activities (Paper reading session )
	Dry deposition monitoring, sampling and analysis	9 November 2011 (1/2 day)	25	<ul style="list-style-type: none"> <li>-To exchange views and information on the data quality on the acid deposition monitoring of EANET in Myanmar such as QA/QC activities, quality management, quality system and so on,</li> <li>- To information on including check on condition of analytical instruments</li> <li>- To discuss the maintenance of sampling instruments for dry deposition,</li> </ul>

Country	Title of Training Course	Duration	No. of Participants	Major Topics
Philippines	Training on the audit of continuous monitoring equipment	3-4 March 2011 (2 days)	50	Audit for continuous monitoring equipment
	Training on the emission inventories spreadsheet using AP 42, CORIAIR	1-2 March 2011 (2days)	55	Inventory of stationary sources, mobile and area sources
	Data evaluation and assessment of real time monitoring data	5 March 2011 (1 day)	50	QA/QC of monitoring data
	Training course in DOAS continuous automatic monitoring station	11-15 Sep. 2011 (5 days)	15	Principles of measurement of ozone, sulfur dioxide, nitrogen dioxide, benzene, xylene, toluene and carbon monoxide. Meteorological equipment such as rain gauge, solar radiation, wind speed, wind direction
	Training course on data acquisition system for continuous automatic monitoring station	1-5 October 2011 (5 days)	15	Data processing and reporting for ozone, sulfur dioxide, nitrogen dioxide, carbon monoxide, BTX and remote diagnostics and trouble shooting
	Training on measurements of volatile organic compounds using photoionization detector and flame ionization detector (PID/FID)	22-23 Nov. 2011 (2 days)	50	Real time measurements of ammonia, hydrogen sulfide, formaldehyde, carbon tetrachloride , methane etc.
	2011 Inter-Comparison Exercises for DENR-EMB Laboratory Analysts	28 September - 6 October 2011 (8 days)	60	1. Discussion on the implementation status/updates of the six environmental laws (such as the Philippine Clean Air Act, Clean Water Act, Environmental Education Act) being spearheaded by EMB-DENR; 2. Inter-comparison exercises on the analyses of parameters pH, BOD5, Chloride, COD, TSS, Oil & Grease and metals in water/wastewater, and ambient SO <sub>2</sub> .



Country	Title of Training Course	Duration	No. of Participants	Major Topics
<b>Philippines</b>	Public Awareness Seminar on Acid Deposition in the Philippines	15 December 2011	80	<ol style="list-style-type: none"> <li>1. Overview of the acid deposition phenomenon and acid deposition monitoring in the Philippines and in East Asia;</li> <li>2. Scientific and technical implementation and management of EANET;</li> <li>3. Youth environmental programs;</li> <li>4. Health impact assessment on air pollution; and</li> <li>5. Government policies and initiatives to abate air pollution and acid deposition</li> </ol>
	Lectures on governance and policies on air quality management	1 day	55	Air shed operations, planning and activities, local policies, establishment of oxygen correction factors, emission averaging and incinerator regulation
	Lectures on AUSPLUME dispersion modeling	1 day	45	Modeling for enhanced permitting and evaluation for environmental impact assessment
	Observation of the conduct of relative accuracy test audit for power plants using coal-fired, natural gas	2 days	5	CEMS checklist for audit, SO <sub>2</sub> , NO <sub>2</sub> , O <sub>2</sub> , CO
	Lecture on the atmospheric chemistry in tropical countries		15	Ozone –aerosol chemistry, NCAR community Atmosphere model Chemistry , dust
	Discussions on the strengthening of Hydrometeorological Services in Southeast Asia	1 day	30	Country assessment report of existing hydrological and meteorological services for environmental services in air and water quality
<b>R. of Korea</b>	-----	-----	-----	-----

Country	Title of Training Course	Duration	No. of Participants	Major Topics
<b>Russia</b>	Training on sampling and analysis method for wet and dry deposition monitoring	March (7 days)	11	Acid deposition monitoring; -Analysis of wet and dry deposition monitoring; - QA/QC activity; - Practice on sampling and analysis; - Using the high-performance liquid chromatography and ion chromatography for analysis of chemical compounds in precipitation and aerosol including procedures developed in the Limnological Institute
	Annual training course on the surface water analysis	3-13 Oct. 2011 (10 days)	14	Update of practical knowledge on QA/QC in surface water monitoring (sampling, analysis, data processing and reporting; In-situ intergroup and inter-laboratory comparison of analyses of major cations and anions in water samples taken from rivers and Lake Baikal
	Annual scientific meeting "Aerosols of Siberia"	19-23 Nov. 2011 (4 days)	84	Assessment of atmospheric pollution in Siberia and Russian Far East, atmospheric compounds including greenhouse gases, biological aerosol, natural emissions, mathematical modeling of the atmospheric transport and diffusion
	Workshop "Climate change induced extremes in Northern Asia"	7 days	87	Environmental and socio-economical consequences of climate change and related extremes

Country	Title of Training Course	Duration	No. of Participants	Major Topics
<b>Thailand</b>	Training on operation and maintenance of automatic air monitoring instrument	2 days	20	Theory and general information of instrument, operating and maintenance procedure of the instruments
	Capacity Building Workshop for Environmental Protection Volunteer for Air Quality Protection in Rayong Province	2 days	200	<ul style="list-style-type: none"> <li>- General information of air pollution (pollutants, sources, mitigation measure and its effects)</li> <li>- What we can do for environment</li> <li>- State of air pollution in Rayong Province</li> <li>- Ambient air quality monitoring by automatic analyzer</li> <li>- QA/QC for air quality monitoring data</li> <li>- Experimental activities (pH measurement)</li> <li>- Declaration for Rayong environmental conservation</li> <li>- Site visit to ambient air quality monitoring station at Maptaput Medical Station</li> </ul>
	Thai Environmental Study Activities Workshop	2 days	100	<ol style="list-style-type: none"> <li>(1) Presentation on the outcomes from the environmental study (Wat Huaypong School, Wat Samaedam School)</li> <li>(2) Introduction of the environmental conservation activities in the elementary school in Bangkok and Rayong Province</li> <li>(3) Introduction of the public awareness activities of PCD on environmental conservation</li> <li>(4) Introduction of the environmental conservation activities in other country (demonstration of the storytelling with picture, electric generator by hand etc.)</li> <li>(5) Discussion</li> </ol>

Country	Title of Training Course	Duration	No. of Participants	Major Topics
Vietnam	“Acid deposition monitoring and QA/QC in environmental monitoring” in Hanoi City	7 - 8 Oct. 2011 (2 days)	4	Introduction on acid deposition monitoring, EANET, wet deposition monitoring, dry deposition monitoring, inland aquatic environment, soil and vegetation; QA/QC in environmental monitoring
	“Acid deposition monitoring and QA/QC in environmental monitoring” in Ho Chi Minh City	11 -12 Nov. 2011	8	Introduction on acid deposition monitoring, EANET, wet deposition monitoring, dry deposition monitoring, inland aquatic environment, soil and vegetation; QA/QC in environmental monitoring

### Training Requirements

Country	Requirements
Cambodia	Basic training on acid deposition monitoring
China	None
Indonesia	1. Basic training on acid deposition monitoring 2. Modeling and inventory for dispersion of pollutant gases that caused acid deposition 3. The calibration process for air pollution monitoring instrument
Japan	None
Lao PDR	-----
Malaysia	Basic Training on acid deposition monitoring Specific topics: 1. EANET individual training programme 2. Modeling training workshop 3. Data analysis and interpretation training 4. Training on chemical analysis and QA/QC activities for new technical staff
Mongolia	Basic training on acid deposition monitoring
Myanmar	(1) Basic training on acid deposition monitoring (2) Training on dry deposition monitoring (future plan) (The training will help to improve the national EANET activities.)
Philippines	Basic training on acid deposition monitoring for new monitoring station and specific topics
R. of Korea	-----
Russia	None
Thailand	Basic training on Acid Deposition Monitoring Specific topics: 1. Operating, QA/QC method and maintenance of automatic instrument (Ozone, PM <sub>10</sub> , SO <sub>2</sub> , etc.) 2. Transboundary air pollution analysis 3. QA/QC program and necessary analytical techniques required to improve the quality and reliability of monitoring data 4. Modeling for air pollution
Vietnam	Basic training on acid deposition monitoring for new site and new laboratory Specific topics: Wet Deposition monitoring to improve the national EAENT activities

**Suggestions in EANET Training Activities**

1. Development of emission inventory, application of simulation models
2. Basic training course on acid deposition monitoring because of new staffs.
3. Should be long term training because short term training is not enough to capture the course for our staffs and duration of Individual Training Course should be extended.
4. Wet deposition analysis, dry deposition analysis, inland aquatic analysis & QA/QC activities for EANET
5. Should hold short term training courses of acid deposition in Vietnam
6. Conduct some training of trainer (ToT) for acid deposition monitoring in collaboration with universities and institutions that have the monitoring station
7. Data evaluation and assessment. From the data of ASEAN countries, identify the rainfall acidity data and collection of the meteorological data such as wind direction, temperature, wind speed atmospheric pressure, amount of precipitation to correlate and possible relationship between rainfall acidity and climatic conditions. Include local sources of pollution and long range transport of air pollutants.
8. Training on data assimilation
9. Training on the conduct of modeling validation for example actual monitoring using passive and active monitors/samplers
10. Training on the integration of EANET or aerosol data into a GIS program to perform a spatial analysis of the aerosol distributions

**Annex 6**

**Summary of the Technical Missions of the NC after SAC11**

Country	Duration	Major Activities/Outcomes of the Mission
Indonesia	13-17 Feb. 2012	The mission exchanged views and information on the data quality on the acid deposition monitoring of the EANET in Indonesia. The mission visited three monitoring sites in Indonesia (Jakarta, Serpong and Bandung), and confirmed that monitoring of these three sites were performed without any serious problems. The mission was requested to support installation of filter-pack kit to Jakarta and Bandung sites. The NC decided to support Indonesia to start filter-pack monitoring at the two sites.
Lao PDR	9-11 May 2012	The mission discussed all of necessary technical matters of the monitoring and checked condition of analytical instruments during the mission. The mission fixed the ion chromatograph for both cation and anion analysis. Broken part of the high efficiency distilled water generator was repaired. The mission also visited Vientiane site and confirmed that the monitoring has being implemented without any serious problem.
Myanmar	13-15 May 2012	The mission exchanged views and information on the implementation of soil-vegetation and inland aquatic environment monitoring of the EANET for considering the implementation of these monitoring activities in Myanmar. The mission also confirmed appropriate operation of the high efficiency distilled water generator in the laboratory.
Philippines	23-27 July 2012	The mission exchanged views and information on the data quality on acid deposition monitoring of the EAENT in the Philippines. The mission also visited three wet and dry deposition monitoring sites in the Philippines (Metro Manila, Los Banos and Mt. Sto. Tomas), and confirmed that parts of monitoring was not performed properly due to serious damages and/or troubles on sampling instruments. The mission was also informed that monitoring will be restarted soon after the instruments will be repaired by the Philippines.

**Annex 7**

(Annex 5 of EANET/IG 14/9)

**Criteria for Uploading Priority Documents to the EANET Website (Draft)**

The following criteria will be applied for uploading the documents of the EANET Meetings from 2001 onwards to the EANET Website.

1. **Documents for Publication** (e.g., Periodic Report on the State of Acid Deposition in East Asia (PRSAD) and Report for Policy Makers (RPM)) and the EANET technical documents (e.g., Monitoring Guidelines and Technical Manuals)
  - i) These documents adopted, approved or endorsed at the Sessions of the Intergovernmental Meeting (IG) will be uploaded after the Session.
  - ii) For uploading, PDF files will be developed from Word and/or Excel files.
2. **Medium term plans for the EANET**
  - i) Strategy on EANET Development, and Medium Term Plan for the EANET approved at the Sessions of the IG will be uploaded after the Session.
  - ii) ii) of 1 above will be applied to uploading of these documents.
3. **Strategy papers of the EANET**
  - i) Strategy Paper for Future Direction of Dry Deposition Monitoring of the EANET, and Strategy Paper for Future Direction of Soil, Vegetation and related Ecosystem Monitoring of the EANET adopted at the Sessions of the Scientific Advisory Committee (SAC) will be uploaded after the Session.
  - ii) ii) of 1 above will be applied to uploading of these documents.
4. **Reports of the Session, Minutes of the Meeting and the Annotated Agenda**
  - i) These documents adopted at the Sessions of the IG, the SAC, the Working Group on Further Financial Arrangement (WG), the Working Group on Future Development of the EANET (WGFD) and the Senior Technical Managers' Meeting (STM) will be uploaded after the Session.
  - ii) For uploading the documents, any information that is inappropriate to be disclosed, e.g. individual information (address, e-mail address, etc.) should be removed.
  - iii) ii) of 1 will be applied to uploading these documents.

**5. Data Report and Report on the Inter-laboratory Comparison Projects**

- i) Data Report and Report on the Inter-laboratory Comparison Projects adopted at the Sessions of the SAC will be uploaded after the Session in accordance with the Data and Information Disclosure for the EANET (Annex IV of EANET/IG 3/12 and Annex 4 of EANET/IG 14/9).
- ii) ii) of 1 above will be applied to uploading of these reports.

**6. Other Documents**

- i) Other documents (except for 1-5 above and Power Point documents) of the Sessions of the IG, the SAC, the WG, the WGFD and the STM will be uploaded after the Session with authorized password for the participating countries, except the following draft or provisional documents that final versions will be/were uploaded;
  - Draft Data Report and Draft Report on the Inter-laboratory Comparison Projects
  - Provisional Agenda, Annotated Provisional Agenda, Draft Program, Provisional List of Participants, Provisional List of Documents
- ii) ii) of 1 above will be applied to uploading of these documents