

The Fifteenth Session of the Intergovernmental Meeting
on the Acid Deposition Monitoring Network in East Asia
16-17 December 2013, Chonburi, Thailand

**Report on the Progress of the Acid Deposition Monitoring Network in East Asia
(EANET) since the Fourteenth Session of the Intergovernmental Meeting (IG14)
on the EANET**

I. INTRODUCTION

1. This document is prepared to report the progress of the Acid Deposition Monitoring Network in East Asia (EANET) since the Fourteenth Session of the Intergovernmental Meeting (IG14) on the EANET held on 26 – 27 November 2012 in Yangon, Myanmar, as presented in details in the Attachment.
2. In general, the activities of the EANET implemented during this period were guided by the “Medium Term Plan for the 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 2013 adopted at the IG14 in November 2012.

II. ACTIONS REQUIRED

3. The Fifteenth Session of the Intergovernmental Meeting (IG15) on the EANET is invited to review the progress of the EANET since the IG14 on the EANET and may wish to discuss, consider, provide guidance, and endorse the report.

Attachment**Report on the Progress of the Acid Deposition Monitoring Network in East Asia (EANET) since the Fourteenth Session of the Intergovernmental Meeting (IG14) on the EANET****I. INTRODUCTION**

1. The Secretariat and the Network Center (NC) for the EANET prepared this report to present the progress of the Acid Deposition Monitoring Network in East Asia (EANET) since the Fourteenth Session of the Intergovernmental Meeting (IG14) on the EANET held on 26 – 27 November 2012 in Yangon, Myanmar
2. In general, the activities of the EANET implemented during this period were guided by the “Medium Term Plan for the 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 2013 adopted at the IG14 on the EANET in November 2012.

II. INSTITUTIONAL AND ADMINISTRATIVE ARRANGEMENT**II-1 Voluntary Financial Contribution from the Participating Countries**

3. In accordance with the Procedures and Guidelines for Voluntary Financial Contributions to the EANET for 2011-2013 adopted at the IG12 in November 2010 and the Revised Guidelines on Administrative and Financial Management for the Secretariat and the Network Center approved at the IG14 in November 2012, the Secretariat sent letters in early January 2013 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 2013 based on the Work Program and Budget of the EANET in 2013 approved at the IG14 and requested the participating countries to make voluntary financial contribution accordingly.

II-1-1 Secretariat Budget

4. In 2012, the Ministry of Natural Resource and Environment of Vietnam made contribution for Secretariat budget in 2011 and 2012 during the IG14 in November. In December 2012, the Federal Service for Hydrometeorology and Environment Monitoring of Russian Federation made contribution to the Secretariat budget in 2012 as well as Ministry of Environment Protection of China. Also, Ministry of Environment of Japan (MOEJ) and the Regional Resource Centre for Asia and the Pacific, Asian Institute of Technology (RRC.AP/AIT) on behalf of the Secretariat signed an agreement regarding the Japanese financial contribution for

the budget of the Secretariat in 2012. In accordance with the agreement, the financial contribution to the Secretariat budget in 2012 from Japan was made in January 2013.

5. In early 2013, Ministry of Transport of Myanmar made the contribution to the Secretariat budget in 2012. As a result, all 12 participating countries that signed the Instrument for Strengthening the Acid Deposition Monitoring Network in East Asia had made voluntary financial contributions to the Secretariat budget in 2012 for a total of US\$385,435.41 which was less than the expected amounts of US\$441,914.00 indicated in the Work Program and Budget of the EANET in 2012 which was approved at the Thirteenth Session of the Intergovernmental Meeting (IG13) on the EANET in November-December 2011 as shown in details in Table 1 of Annex 1.
6. As of 15 November 2013, eleven participating countries that made voluntary financial contributions to the Secretariat budget in 2013 include Cambodia, Japan, Lao PDR, Malaysia, Mongolia, Myanmar, Philippines, Republic of Korea, Russia, Thailand, and Vietnam for a total of US\$394,098.00 compared to the expected amounts of US\$ 473,378.00 indicated in the Work Program and Budget of the EANET in 2013 which was approved at the IG14 in November 2012 as shown in details 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 the EANET for 2011-2013 and the Work Program and Budget of the EANET in 2012 and 2013, 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 and Cambodia (July 2013), Japan (March 2013), Lao PDR (September 2013), Mongolia (January 2013), Myanmar (October 2013), Philippines (March 2013), Russia (March 2013), Thailand (February 2013) and Vietnam (September 2013) made contributions to the NC core budget for the year 2013. In March 2012 and March 2013, Japan made contributions for the budget for implementation of the NC additional budget activities for the year 2012 and 2013 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 and the NC

Deputy Director General (DDG) of the ACAP in charge of the NC

9. The term of the previous DDG of the Asia Center for Air Pollution Research (ACAP) in charge of the NC was completed on 30th September 2013. As requested by the NC and in accordance with the Revised Guidelines on Administrative and Financial Management for the Secretariat and the Network Center approved at the IG14 in November 2012, the Secretariat sent out the

DDG vacancy announcement and invitation letters in April 2013 to all National Focal Points (NFPs) to nominate the candidate for the DDG position. There were three applicants nominated by Mongolia, Philippines, and Republic of Korea. The short list of the three applicants was circulated to the NFPs for their comments in May 2013. The recommendation of Director General of the ACAP on the final candidate for the DDG position taking into account of comments from the NFPs was submitted to the President of Japan Environmental Sanitation Center (JESC) in July 2013. Based on the recommendation, the applicant nominated by Republic of Korea, Dr. Sukjo Lee, was selected for the new DDG position by the President of JESC on 22 July 2013. The information on the selection of the final candidate, Dr. Sukjo Lee, for the DDG position was sent to the NFPs on 24 July 2013 and the new DDG was formally appointed on 5 August 2013 to start working at ACAP on 1 October 2013 for a period of two years.

Coordinator of the Secretariat

10. The term of the Coordinator of the Secretariat will be completed on 31 March 2014. The Secretariat has initiated the recruitment process for the new Coordinator following the procedure specified in the “Revised Guidelines on Administrative and Financial Management for the Secretariat and the Network Center” approved at the IG14 in November 2012. The vacancy announcement and invitation letter was sent to the National Focal Points (NFPs) on 10 October 2013 for the nomination of candidates for the Coordinator position. The recruitment process will take about 6 months aiming at contracting the new Coordinator by the end of March 2014 and being effective from 1 April 2014 for a period of two years. Schedule for the recruitment of the new Coordinator of the Secretariat for the EANET (2014-2016) is presented in Annex 2.

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

11. Under the Framework on the Establishment of the Secretariat of the Acid Deposition Monitoring Network in East Asia (EANET) between the Chairperson of the Intergovernmental Meeting on the EANET and UNEP signed in 2002, the Secretariat will be housed in the office of UNEP RRC.AP supported by Regional Office for Asia and the Pacific (ROAP) and a senior official representing the EANET will be invited to the Policy Advisory Committee of the then UNEP RRC.AP. The Intergovernmental meeting (IG) on the EANET will nominate a senior representative to participate in the Policy Advisory Committee of the then UNEP RRC.AP.
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. Since April 2012, Dr. Pornsook Chongprasith, Director of Air Quality and Noise Management Bureau as the National Focal Point of Thailand had been the representative of the EANET in the RRC.AP Advisory Committee. However, the Pollution Control Department of Thailand has recently designated Ms. Jongjit Niranathmateekul, the new Director of Air Quality and Noise Management Bureau, as the new NFP of Thailand.

13. According to the Memorandum of Understanding (MoU) between the United Nations Environment Programme (UNEP) and the Asian Institute of Technology (AIT) signed in 2011, an Advisory Committee shall oversee the partnership between UNEP and AIT. The Committee shall provide technical/programmatic advice/guidance to AIT for the implementation of collaborative projects of UNEP and AIT, including the activities thereto undertaken by RRC.AP. The Committee shall consist of: Regional Advisory Group - eminent persons in the environment field; senior donor representative(s); a senior representative of Asian Development Bank; President of AIT; Director, UNEP Regional Office for Asia and Pacific; and Director, UNEP Division of Regional Cooperation. The Committee shall meet at least once per year. The Committee may appoint new members to the Committee.
14. The IG on the EANET may wish to make a request to the Advisory Committee under the MoU between UNEP and AIT in 2011 to invite a senior representative of the EANET to the Advisory Committee and subsequently nominate a senior representative to participate in the Advisory Committee.

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

15. 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 in 2011 before the IG13 whereas Lao PDR, Malaysia, and Russia signed the Instrument in 2012 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.
16. 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”.
17. At the IG14 on the EANET held in Yangon, Myanmar, on 26-27 November 2012, the Session adopted the Resolution on the Encouragement of the Participating Countries of the EANET to effectively implement the Instrument for Strengthening the EANET. The resolution encourages all the participating countries of the EANET to sign the Instrument as soon as possible, if not done so, and to fulfill the commitment contained in the Instrument.
18. The Secretariat has communicated regularly with the National Focal Point of Indonesia on the progress of its internal discussion on the signing of the Instrument. The Secretariat was informed

that the internal discussion is still ongoing by the inter-ministerial team for ratification of international agreement.

II-5 Mid-Term Report on the Implementation of the Medium Term Plan (MTP) for the EANET (2011-2015)

19. In line with the Implementation Plan of the MTP for the EANET (2011-2015) adopted at the IG12 in November 2010 as a part of the MTP for the EANET (2011-2015) and the Work Program and Budget of the EANET in 2013 approved at the IG14 in November 2012, the Preliminary Final Draft of the Mid-Term Report on the Implementation of the Medium Term Plan (MTP) for the EANET (2011-2015) from January 2011 to June 2013 was drafted by the consultant in collaboration with the EANET Secretariat, the NC and the EANET participating countries. The Preliminary Final Draft of the Mid-Term Report was submitted for review at the Thirteenth Session of the Scientific Advisory Committee (SAC13) held on 25–27 September 2013 in Xiamen, China and at the Twelfth Session of the Working Group on Future Development (WGFD12) of the EANET on 14 – 15 October 2013 in Chonburi, Thailand. The Final Draft of the Mid-Term Report was prepared taking account of views and comments of the SAC13 and the WGFD12 and is submitted to this IG15 for review, discussion, providing guidance, and endorsement in Agenda Item 6.

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 were 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. The Third Meeting was held on 4-5 September 2013 in Niigata, Japan. The final draft was submitted to the SAC13 and adopted at the Session. It is submitted to this IG15 for endorsement.

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

EANET Inter-laboratory Comparison Projects

(Inter-laboratory Comparison Projects in 2011)

22. The NC published the Report of Inter-laboratory Comparison Project 2011 (the 14th project on wet deposition, the 7th project on dry deposition (filter pack method), the 13th project on soil and the 12th project on inland aquatic environment), and distributed it to the participating laboratories in January 2013.

(Inter-laboratory Comparison Projects in 2012)

23. The NC distributed samples for the 15th Inter-laboratory Comparison Project on wet deposition, the 8th project on dry deposition (filter pack method), the 14th project on soil and the 13th project on inland aquatic environment to the participating countries in October 2012. The Report on the Inter-laboratory Comparison Projects 2012 was discussed at the Fourteenth Senior Technical Managers' Meeting on the EANET (STM14) held on 26-28 August 2013 and was subsequently adopted at the SAC13 held on 25-27 September 2013.

(Inter-laboratory Comparison Projects in 2013)

24. The NC distributed samples for the 16th Inter-laboratory Comparison Project on wet deposition, the 9th project on dry deposition (filter pack method), the 15th project on soil and the 14th project on inland aquatic environment to the participating countries in October 2013.

Other Inter-laboratory Comparison Projects

25. Several EANET laboratories in Japan, Philippines, Russia, Thailand and Vietnam also participated in the international inter-comparison 2012-2013 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), etc.

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

(Data Report 2011/2012)

26. The NC published the Data Report 2011 and distributed it to the NFPs, National Centers, SAC members and other relevant organizations in January 2013. Most of the participating countries have already submitted their 2012 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 2010 were disclosed outside of the EANET from January 2013. The raw data of 2011 will be disclosed in January 2014.

28. The Data Report 2012 was discussed at the STM14 and was subsequently adopted at the SAC13.

III-3 EANET Meetings

III-3-1 Scientific Advisory Committee (SAC)

29. The SAC13 was held on 25-27 September 2013 in Xiamen, China in order to discuss all of important technical and scientific issues of the EANET. The result will be reported and discussed in Agenda Item 5.

III-3-2 Working Group on Future Development of the EANET (WGFD)

30. The WGFD12 was held on 14 – 15 October 2013 in Chonburi, Thailand. Major discussions and comments included the following:

- Review on the Report on the Progress of the EANET since the WGFD11 and the Financial Report of the Secretariat and the Network Center in 2012
 - i. It was pointed out that the amount of the total budget of the Secretariat in 2013 indicated in Table 1 in Annex 1 of the document EANET/WGFD 12/4/1 should be corrected.
 - ii. In response to the question on the appropriate amount of the savings, the Secretariat clarified that the savings is the accumulation of savings from all the years starting from early stages of the EANET, therefore it is not possible to identify the appropriate amount of the savings. The IG suggested that a minimum amount of saving should be US\$100,000 for emergency purposes. The large amount of savings at present is a result of financial contributions from Japan and China in the early stages of the EANET.
 - iii. The Secretariat was requested to send the request letter for financial contribution to the participating countries in early January of every year as it was done for 2013 so that the financial contribution from some participating countries could be made within the first quarter of the year.

It was agreed to submit the reports to the IG15 for endorsement with necessary revision pointed out by Russia.

- Review on the Preliminary Final Draft of the Mid-Term Report on the Implementation of the MTP for the EANET (2011-2015) from January 2011 to June 2013
 - i. It was suggested that there may be a need to have quantitative indicators or targets for some activities in the MTP in the future.
 - ii. It was suggested that it should be specified to whom the recommendations are for rather than general recommendations made by the Secretariat, the NC and the consultant.

It was agreed to submit the report to the IG15 for endorsement with revisions suggested by the Session.

- Review on the Preliminary Final Draft of the RPM3
 - i. There were different views whether the draft RPM3 could be finalized by the IG15 or should be discussed further by an expert group nominated by the participating countries before finalization by the IG next year.
 - ii. It was pointed out that there will be implication on the implementation plan of the MTP (2011-2015) and the budget in 2014 if the finalization of the draft RPM3 will be postponed to the IG next year.
 - iii. The participants were requested to submit comments and suggestions to the Secretariat for the improvement of the draft RPM3 including the updated country efforts in managing atmospheric environment issues.
 - iv. It was suggested that UNEP may consider supporting the translation of the final RPM3 into the languages of the participating countries.
 - v. It was suggested that the future issue of the RPM could focus more on transboundary issues.
 - vi. It was clarified that the suggestion to promote the study on impacts on eco-system is included in Chapter 6 of the draft RPM3.

It was agreed that the participating countries will put their best efforts to review and submit their suggested revisions of the draft RPM3 to the Secretariat as soon as possible to be incorporated as far as possible into the preliminary final draft of the RPM3 for circulation to the participating countries before presenting to the IG15.

- Review on the Preliminary Draft Report of the Review on the State of Air Pollution in East Asia
 - i. It was pointed out that the SAC may not be in the position to approve the Review Report but could discuss the Review Report before submission to the IG for reference.
 - ii. It was suggested that the SAC may only endorse the Review Report.
 - iii. It was pointed that the Report of the Review on the State of Air Pollution in East Asia is being prepared by invited internationally known experts. If necessary, qualified experts from outside the EANET could be invited to provide comment on the draft Review Report for the consideration at the SAC.
 - iv. It was clarified that the draft Executive Summary of the Review Report will be developed early next year for later submission to the Fourteenth Session of the Scientific Advisory committee (SAC14).

It was agreed that the progress of the development of the Review Report will be reported to the IG15.

- Review on the Future Development of the EANET
 - Review Report on the Future Arrangements of the Secretariat for the EANET

- i. Some countries expressed the view that Option 1 or Option 2 is preferable.
- ii. Japan informed that Option 3 is not desirable because the current financial contribution made by Japan is based on UNEP as the designated Secretariat for the EANET.
- iii. It was suggested that the Review Report should include the assessment of the advantages and disadvantages of other aspects other than the costs under different options, such as whether they would meet the objectives of the EANET.
- iv. It was clarified that the recruitment process for Option 1 and Option 2 is the same based on competitiveness under UN Rules and Regulations applied to UNEP.
- v. There was a concern raised on whether the voluntary financial contribution will become mandatory if a Trust Fund is established under UNEP. It was clarified that it is up to the IG to decide.
- vi. It was clarified that a UNEP Trust Fund can accept external contribution in a separated category as additional budget.
- vii. There was a concern that the salary scale of the Coordinator under UNEP will be considerably higher than that of the Deputy Director General of ACAP in charge of the Network Center for the EANET.
- viii. China confirmed that China will increase its cash contribution to a certain level and proposes to make an in-kind contribution in addition to its cash contribution by seconding a senior official as Deputy Coordinator (or in another title) to assist the Secretariat, particularly during the transition period for the future arrangements of the Secretariat.
- ix. It was pointed out that there is a need to clearly specify the tasks to be performed by the additional senior official seconded by China.
- x. It was pointed out by UNEP that the IG15 should express a clear intention which option will be selected.

It was agreed to that the Secretariat will include the assessment of the advantages and disadvantages of other aspects than the costs in the Review Report for circulation to the participating countries to enable the IG15 to express its clear intention which option will be selected.

• Future Expansion of the Scope of the EANET

- i. China suggested
 - a. the consideration of the establishment of new Network Centers under the framework of the EANET, each having specific mandate in specific areas such as clean air technology, modeling, research and study on modeling, which are deemed as closely relevant to the EANET. The Network Centers could be hosted by participating countries on voluntary basis.
 - b. the expansion of monitoring scope which includes the expansion of monitoring objects, monitoring sites, and establishment of Network Centers, should be carried out on a step-by-step approach and by taking into consideration of different circumstances of the participating countries.
- ii. There were different views whether the decision should be made on the expansion

of the scope of the EANET first or on the institutional arrangements of the EANET such as the establishment of new Network Centers.

- iii. It was suggested that in relation to the proposed clean air technology platform in the form of establishing a new center with the tasks of emission inventory compilation and its projection for the EANET region could be incorporated as basic works of such a center.
- iv. It was pointed out that the proposal on the establishment of a new Network Center on clean air technology may be beyond the scope of the Instrument for Strengthening the Acid Deposition Monitoring Network in East Asia (EANET).
- v. There was concern that expansion of the scope may increase financial burden to the participating countries.

It was agreed that a recommendation will be made to the IG15 to task the Network Center to prepare a Prefeasibility Study on the expansion of the scope of the EANET including the possibility to establish new Network Centers and that the document EANET/WGFD 12/8/2 will be reported to the IG15 together with views and comments of the WGFD12.

- Review on the Draft Proposal on an Advisor for the EANET

- i. There were different views on the necessity of having advisor(s) for the EANET.
- ii. There was a view that the EANET should conclude the issue on the future arrangement of the Secretariat before this proposal could be considered.
- iii. It was clarified that the intention of the proposal is not to establish an advisory board but is to have advisors on an individual basis and it does not have anything to do with the future arrangement of the Secretariat since the advisor is not only for the Secretariat but for the EANET.
- iv. It was also clarified that the advisors under the proposal will not receive an honorarium or remuneration.
- v. It was clarified that it is also a practice in some international initiatives and conventions to have ad-hoc advisors to assist or give guidance in certain areas as needed.
- vi. It was suggested to have more discussion on the field of expertise, assigned term, modality, and procedure relating to the recruitment of advisor(s).
- vii. It was also suggested to seek assistance from UNEP for some issues including modality.

It was agreed to submit the proposal to the IG15 for its decision, as appropriate, with views and comments of the WGFD12.

- Review on the Draft Proposal on the Presentation of the EANET Plaques of Recognition to the Experts, Scientists, and Resource Persons for Their Contribution to the EANET

- i. There was a suggestion for every participating country to nominate one person from the country to receive the plaques of recognition each to be endorsed by the IG.
- ii. It was also proposed to nominate 3 candidates or more by each NFP without any

concern to their nationalities but taking into account their evident contributions to the whole EANET activities.

- iii. There were different views on who should make the nomination, how many could be nominated from each countries, whether persons outside EANET participating countries could be nominated, and whether one participating country could nominate persons from other participating countries.
- iv. There was a concern on the transparency of the selection process.
- v. It was suggested that the selection criteria should be developed.
- vi. There was a suggestion that the plaques of recognition be given regularly.

It was agreed to submit the draft proposal to the IG15 for decision after revision by the Secretariat taking into account views and comments of the Session as much as possible, as appropriate.

- Review on the Draft Work Program and Budget of the EANET in 2014

It was agreed to submit the Draft Work Program and Budget of the EANET in 2014 to the IG15 for its consideration and approval, as appropriate.

- Other Issues

• Arrangement for the Fifteenth Session of the Intergovernmental Meeting (IG15) on the EANET in 2013

- i. It was noted there was no representative from EMEP invited to participate in the SAC13 as normally practiced. It was suggested that a representative from EMEP should be invited to the Session of the SAC in the future.
- ii. It was noted that for Agenda Item on the draft RPM3, the participating countries will try their best to provide views and comments for the revision of the draft RPM3 and there is a possibility that the draft RPM3 could be endorsed by the IG15.
- iii. It was pointed out that
 - a. If the consensus has not been reached by the participating countries, the submission of the revised draft RPM3 to the IG should be postponed to next year.
 - b. The proposal on Advisor(s) for the EANET is not ready to be submitted for the consideration of the IG15 since there are still needs to improve and refine the proposal with respect

The views and comments of the Session were noted and the draft Provisional Agenda, draft Annotated Provisional Agenda, and Draft Program will be circulated to the National Focal Points for finalization.

• Proposal on Asia Science Panel on Air and Climate (ASPAC)

Dr. Hajime Akimoto, Director General of Asia Center for Air Pollution Research (ACAP) mentioned that ASPAC would synthesize the common understanding of Asian scientists, which could be the western views. Ad hoc high-level science meeting for air pollution in Asia was proposed as a first step of discussing the best way of synthesizing

scientific views in Asia, and conveying them to policy makers inside and outside of the region.

- i. It was pointed out that funding from the countries to participate in the activities of the ASPAC will require time for the governments to recognize the ASPAC.
- ii. Considering that the EANET is an intergovernmental initiative recognized internationally, it was suggested to include ASPAC activities in the framework of the EANET with the possibility of changing the name of the EANET, if necessary, together with the expansion of the scope of the EANET.
- iii. It was pointed out that the issue is up to the IG to decide.
- iv. It was suggested to consider how the EANET can participate in the proposed ASPAC.
- v. UNEP pointed that the proposal on ASPAC would support the need for better cooperation and coordination among initiatives and programs on atmospheric environment in Asia as mentioned by Regional Director of ROAP in his opening address, and offered to assist in finding the modality for its realization.

- Implications for the Region of the Recent UNEP Reports on Short-Lived Climate Pollutants (SLCPs) and the Climate and Clean Air Coalition to Reduce SLCPs (CCAC)
Ms. Adelaida B. Roman, RRCAP, presented the “Information Activities under the Climate and Clean Air Coalition (CCAC) on Short-Lived Climate Pollutants (SLCPs)”. She briefly introduced the overview of science and regional impacts of SLCPs. She mentioned about the works of the CCAC on promoting SLCPs national action planning, its partners, structure governance and others.

- Atmospheric Brown Clouds (ABC) Programme

Dr. Ram Lal Verma, Secretariat of the ABC Asia introduced the background of ABC programme since 1999 due to regional haze in South Asia and mentioned about the detail of ABC programme started in 2002, the achievement of the Programme and ongoing activities.

- Malé Declaration on Control and Prevention of Air Pollution and Its likely Transboundary Effects for South Asia

Ms. Adelaida Roman, Secretariat for the Malé Declaration on Control and Prevention of Air Pollution and Its likely Transboundary Effects for South Asia (Malé Declaration) presented and highlighted the Malé Declaration Phase IV (2010-2013) and also mentioned about next phase of Malé Declaration, Phase V (2014-2016) which aims to promote policy measures to control emissions of air pollution including Short-Lived Climate Pollutants (SLCPs) in South Asia and to ensure the sustainability and ownership of the Malé Declaration in the region.

- i. It was clarified that there are 8 Regional Centres identified to work in different activities with the national funding support.
- ii. It was pointed out that financial contribution from Sida is one of the major factors that enabled the Malé Declaration to attain its objectives and implement the activities, e.g. monitoring, modeling, emission inventory, etc.

- Asian Co-benefit Partnership

Professor Katsunori Suzuki, Kanazawa University, Senior Fellow, Institute for Global Environmental Strategies (IGES) and Co-chair of ACP Advisory Group introduced the major outcomes of the recent ACP Advisory Group Meeting in July 2013 in Yokohama, Japan and the progress in ACP Work Plan 2012-2013 and discussion on possible Work Plan for 2014-2015. He especially highlighted the ACP White Paper as an ACP flagship publication and informed that the White Paper will be issued in Fiscal Year 2013.

- Clean Air for Smaller Cities in the ASEAN Region Project

Mr. Roland Haas, Programme Director, German International Cooperation (Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH) introduced the ASEAN-German Project “Clean Air for Smaller Cities in the ASEAN Region” (CASC) which is part of the ASEAN-German Programme “Cities, Environment and Transport in the ASEAN Region” (CET) financed by the German Federal Ministry for Economic Cooperation and Development (BMZ) and jointly implemented by ASEAN and GIZ with the total budget of the programme is nearly US\$ 18 million until the end of 2015. He informed that CASC focuses on the development of clean air plans (CAP) for smaller cities (0.2 – 1.5 mill. inhabitants). It provides methodical support to cities and local universities for public participation, air quality monitoring refinement, emission inventory development, immediate action plans for urging urban problems as well as the development and implementation of CAP. The project works in 11 cities and 8 ASEAN Member States.

- i. It was suggested that the acid deposition monitoring sites of the EANET could be considered by the project.
- ii. It was clarified that the project focuses on ASEAN Member States, not including Singapore and Brunei Darussalam.

III-3-3 Senior Technical Managers’ Meeting (STM)

31. The STM14 was held by the NC on 26-27 August 2013 in Tokyo, Japan. Major discussion items of the STM14 were as follows:

- Report on the progress of the EANET since STM13;

It was informed that compiled data will be shared with the other networks for collaboration each other. It was also clarified that published documents and data including Data Reports and the Periodic Reports are used for such purposes. Raw data is also disclosed to outside of the EANET upon request after one year from disclosure of the Data Report.

- Overview of the preliminary draft Data Report 2012;

The NC requested the participating countries not yet submitting data to submit as soon as possible. Some countries have not been analyzed the samples because of failure of the ion chromatography. In this case, the data will be submitted when the instrumental

problems are solved.

- Evaluation for the results of the Inter-laboratory Comparison Projects in 2012:

For wet deposition project, the samples should be analyzed nine times for each. It was suggested that precision of the nine data for each sample should be checked carefully in each laboratory to improve the ILC result.

- Consideration of the National Monitoring Plans (NMPs), Current Monitoring Activities for the EANET Monitoring and overall air concentration monitoring status of the Participating Countries:

Participating countries made presentations on their NMPs and current EANET activities including capacities, technical problems, future plans and so on for improvement of the activities of the EANET. The participating countries also made presentations on the status of their countries' air concentration monitoring managed as non-EANET monitoring activities which include number of monitoring sites, monitoring parameters and frequency.

It was requested to some participating countries that in accordance with the revised template, the NMP should be submitted as soon as possible based on the distributed example of the NMP from one country as a reference.

- Other issues.

The activities of the Expert Group on Preparation of Technical Manual for Air Concentration Monitoring including the submission of the Final Draft Manual to the SAC13 were informed.

Regarding the Status of the Monitoring and QA/QC System of Ozone in the EANET, calibration and parallel monitoring was implemented in Thailand in 2012 and in Malaysia in 2013. It is planned that the mission for ozone calibration and parallel monitoring in Indonesia will be dispatched in February 2014.

Regarding Draft Report of the Review on the State of Air Pollution in East Asia, it was reported that the NC will upload the documents on the EANET website for the relevant member persons.

Prof. Hiroshi Hara, Member of Science Advisory Group for Precipitation Chemistry, Global Atmosphere Watch, World Meteorological Organization (WMO), presented Information System of Monitoring Stations. This presentation showed the case of how the EANET data are used for international networks.

32. The participants of the STM14 visited the closed Ashio Copper Mine, which is famous for the first serious air pollution of SO₂ in Japan and large scale measures for mitigation and recovering from the damage caused by its environmental pollution have been taken.

III-3-4 Task Forces and Expert Groups established under the SAC

33. 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 2013 are attached as Annex 3.
34. After the IG14, the following TFs/EGs meetings were held to discuss the important issues of each TF or EG in accordance with the TOR, future plan, etc.
- (1) The Sixth Meeting of the Task Force on Research Coordination (TFRC6) (24 September 2013, Xiamen, China)

Review on the state of air pollution in East Asia was discussed. Reports of the Research Fellowship in 2012, current research projects of the NC, and future research areas of the EANET, etc. were also discussed.
 - (2) The Third Meeting of the Expert Group on Preparation of the Technical Manual for Air Concentration Monitoring (EGACM2) (4-5 September 2013, Niigata, Japan)

The meeting discussed the final draft of the Technical Manual for submission the revised final draft to the SAC13 for adoption.
35. Based on the discussion at the SAC11/12 and the IG13/14, the TFRC is preparing the “Review on the State of Air Pollution in East Asia”. The Reviewing Committee (RC) that consists of several experts on atmospheric environment and ecological impact assessment were established under the TFRC in February 2013 and two meetings were held in February and August 2013. The NC was delegated as the secretariat for the RC.
- The First meeting of the RC was held on 4 February 2013 in Niigata, Japan. The preliminary table of contents and possible lead authors and contributors to draft the first manuscripts were discussed.
 - The Second meeting of the RC was held on 2-3 August 2013 in Niigata, Japan. The status of submission of the first draft manuscripts from the lead authors and contributors were confirmed. The meeting confirmed action plans towards submission of the preliminary draft report of the Review to the TFRC6 and the SAC13.

III-3-5 Publication of Proceedings, Summaries of the EANET Meetings

36. After the IG14, publications of the proceedings and summaries of the following meetings were completed and distributed to the participating countries and participants of the Sessions:
- The Fourteenth Session of the Intergovernmental Meeting (IG14) on the EANET
 - The Twelfth Session of the Scientific Advisory Committee (SAC12)
 - The Eleventh Session of the Working Group on Future Development (WGFD11) of the EANET
 - The Thirteenth Senior Technical Managers’ Meeting (STM13)

III-4 Communication with Participating Countries, etc.

37. In January 2013, 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. The Secretariat received communications from some NFPs regarding a few changes on designated officials for the EANET in their respective countries, e.g. NFPs, SAC members, etc. from time to time and circulated this information to all concerned.
38. 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, resource institutions and programs such as the United Nations Environment Programme (UNEP-Nairobi); United Nations Economic and Social Commission for the Asia and the Pacific (UNESCAP); United Nations Economic Commission for Europe, Convention on Long-range Transboundary Air Pollution (UNECE CLRTAP) and its programmes including the Cooperative Programme for Monitoring and Evaluation of the Long Range Transmission of Air Pollutant in Europe (EMEP); Kanazawa University; Stockholm Environment Institute (SEI); Climate and Clean Air Coalition to Reduce Short-Lived Climate Pollutants Initiative (CCAC); Clean Air Asia; International Cryosphere Climate Initiative (ICCI); Governmental Meeting on Urban Air Quality in Asia; Malé Declaration on Control and Prevention of Air Pollution and Its Likely Transboundary Effects for South Asia (Malé Declaration); Joint Forum on Atmospheric Environment in Asia and the Pacific (Joint Forum); Atmospheric Brown Clouds (ABC) Project; North-East Asian Subregional Programme for Environmental Cooperation (NEASPEC); the Long-range Transboundary Pollutants (LTP) in Northeast Asia; Asian Co-benefits Partnership (ACP); German International Cooperation (GIZ); Institute for Global Environmental Strategies (IGES); etc.
39. The NC also communicated with participating countries regarding scientific and technical issues to improve monitoring and assessment of acid deposition in the region.

III-5 Technical support and capacity building activities

III-5-1 EANET Training

EANET Individual Training at the NC

40. One trainee each from Malaysia, Mongolia, Russia and Vietnam participated in the EANET individual training course at the NC from 10 through 21 December 2012. They received training on wet deposition, dry deposition, soil/vegetation and inland aquatic environment monitoring, and data management.

Questionnaire Survey for Training Activities in 2012

41. In June 2013, the NC implemented the Annual Questionnaire Survey on Training Activities in 2012 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. Ten participating countries replied their national training activities in 2012. The results including the requests from the participating countries were summarized as Annex 4.

III-5-2 Support to Participating Countries

Dispatch of Technical Missions

42. After the IG14, the NC dispatched technical missions to Myanmar (November 2012), Malaysia (February 2013), Russia (July 2013) and Mongolia (October 2013) to exchange information, provide technical advice and assess the suitability of proposed EANET monitoring sites, etc. 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 IG14 is attached as Annex 5.

Technical Support for the Participating Countries

43. The NC provided assistance to China, Indonesia, Lao PDR, Mongolia, Myanmar, Philippines, and Russia in 2012 and/or 2013 for their monitoring activities through dissemination of the latest information, provision of consumable, equipment such as filter pack kit, spare parts for equipment, etc.

III-6 Research Activities

44. 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-6-1 EANET Research Fellowship Program

(Fellowship Research in 2012)

45. In June 2012, 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 7 countries namely Cambodia, China, Lao PDR, Mongolia, Myanmar, Russia and Thailand. The Selection Committee of the NC decided to invite two researchers from China and Thailand. The research topic of the researcher from China was "Characterization of particulate matter (PM10, PM2.5) from EANET and comparison of PM air quality standards between Japan and China", and the research topic of the researcher from Thailand was "Identifying of acid deposition potential

sources in Thailand using PMF model and PCA analysis”. However, due to unexpected situation, namely unavailability of entry visa, the selected researcher from China became unable to visit Japan and had to decline conducting research at ACAP under the fellowship program in 2012. The fellowship research by the researcher from Thailand was carried out successfully from 15 October to 7 December 2012. The research report was submitted to the NC in April 2013, reviewed by the supervisor at ACAP and two reviewers designated at TFRC and will be published in the EANET Science Bulletin (Vol. 3).

(Fellowship Research in 2013)

46. In June 2013, the NC sent a letter to the NFPs and the SAC members inviting applicants for the research fellowship in 2013. The deadline of the application was 20 July 2013. In response to the invitation letter, the NC received 7 applications from 3 countries namely Mongolia, Myanmar and Thailand. The Selection Committee of the NC considered the proposed research plans submitted by the applicants and decided to invite two researchers from Mongolia and Thailand. Duration of the fellowship research in 2013 in the ACAP is for approximately eight weeks, since the middle of October to the middle of December 2013. The draft research topic of the researcher from Mongolia is “Long range transport of air pollutants (trace gases) related with meteorological process in Asia” and the researcher from Thailand is “Atmospheric dry and wet nitrogen deposition in South East Asia: Trend and identified long ranged and local sources (biomass burning source)”.

III-6-2 Joint Research Project on Catchment Analysis with Thailand, Malaysia and Japan

47. 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 been conducting the joint research projects on the catchment analysis with the Royal Forest Department (RFD) and the Environmental Research and Training Center (ERTC) in Thailand, with the Universiti Putra Malaysia (UPM) and the Malaysian Meteorological Department (MMD) in Malaysia, and with Niigata Prefecture and Niigata University in Japan. Currently, as the new project supported by Asia-Pacific Network for Global Change Research (APN, ARCP2012-18NMY-Sase), dynamics of sulfur derived from atmospheric deposition are studied in forest catchments in the countries above. The APN Workshop 2013 on Sulfur Dynamics in East Asian Forests was held in Selangor, Malaysia on 24-25 June 2013 to share progress of the research project and discuss future direction of the study.

III-6-3 Joint Research Project on Comparison Study for Filter-Pack Method with Republic of Korea

48. The 2nd phase project has been carried out with the aim of comparing the 3-stage filter pack method in the Republic of Korea, and the 4-stage filter pack method in Japan, etc. Intensive monitoring was conducted from October 2010 to April 2012. The 2nd phase focuses on carbonaceous components in addition to priority chemical species of the EANET. Now data are

under compilation, and then 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 and feasibility of filter pack method will be discussed.

III-6-4 International Workshop on Atmospheric Modeling Research in East Asia

49. The 4th International Workshop on Atmospheric Modeling Research in East Asia was held in March 2013 in Kunming, China. In this workshop, progress of research activities in MICS-Asia III in 2012 were reported by leaders of each topic, and detailed schedule for activities in 2013 was discussed. Development of anthropogenic and natural emission datasets and WRF meteorological fields has been finished. After boundary conditions from global models become available, simulations by regional chemical transport models for the year 2010 will be started. The simulated results will be reported and discussed at the 5th workshop although schedule and venue have not been determined yet.

III-7 Public Awareness Activities

III-7-1 National Public Awareness Workshops

50. The Secretariat in collaboration with the NC organized two National Public Awareness Workshops on acid deposition and other related atmospheric pollutions in two participating countries, namely Myanmar and Thailand, which had expressed their interests to host the Workshops.
51. The National Public Awareness Workshop in Myanmar was held in Nay Pyi Taw on 13 June 2013. The participants were from governmental agencies, local governments, teachers from high, middle and basic level educations, students from high level education. The participants were given information on the EANET and its monitoring activities, the state of acid deposition and air pollution in East Asia, the EANET activities and other related activities in Myanmar, i.e. pollution monitoring, water quality monitoring, environment conservation policy of Myanmar. The participants were also given the opportunity to discuss the ways forward for Myanmar to address acid deposition and air pollution issues in Myanmar and in the region.
52. The National Public Awareness Workshop in Thailand which was held in Bangkok on 16-17 July 2013 focusing on particulate matter (PM) which is one of the most significant air pollutants at the present time in Thailand. The Workshop was a kind of multi-layers stakeholder workshop, of which the participants were from governmental agencies, local government agencies, private sectors, academia, and Non-Governmental Organizations (NGOs). The participants were given information on the EANET and its monitoring activities, the state of acid deposition and air pollution in East Asia, national monitoring activities, current status of air quality in Thailand, effects of air pollution on the health of Thai people. The participants also had the opportunity to discuss and share experience on public communication and raising awareness on air pollution in Thailand.

III-7-2 Dissemination of Information through EANET Website

53. New information has been uploaded on the EANET website such as publication (e.g. Data Report 2011 and Inter-laboratory comparison projects 2011), EANET Newsletter (Vol. 13/14), EANET meeting reports, monitoring site information, and so on.
54. In accordance with “Criteria for uploading priority documents to the EANET website” as a part of the “Revised Guideline on Administrative and Financial Management for the Secretariat and the Network Center” (EANET/IG 14/14 Annex 4) approved at the IG14, the NC has engaged a system integrator to develop security control system which will allow only authorized password holders to access uploaded priority documents. The system development was completed by the end of October 2013 and the NC uploaded all priority documents of the EANET meetings such as the past Sessions of the IG, the SAC, the WGFD and the STM after 2001 in September-October 2013. In parallel, the Secretariat was communicating with the NFPs of the participating countries to list up relevant people who will be authorized to access the uploaded documents. The new disclosure system was started in November 2013 for the EANET members in the participating countries.

III-7-3 Publication of Newsletters

55. The EANET Newsletters on the activities of the EANET during the period of July-December 2012 (Vol. 13) and January-June 2013 (Vol. 14) were published by the Secretariat in collaboration with the NC and distributed to the participating countries.

III-7-4 Third Report for Policy Makers (RPM3)

56. In accordance with the Work Program and Budget of the EANET in 2013 approved at the IG14, the Secretariat has engaged a consultant to develop the Preliminary Final Draft of the Third Report for Policy Maker in collaboration with the Secretariat and the NC, and in consultation with the participating countries and was submitted to the SAC13 on 25–27 September 2013 in Xiamen, China and to the WGFD12 on 14–15 October 2013 in Chonburi, Thailand for view and comment. The Secretariat, the NC, and the consultant have prepared the Final Draft of the RPM3 based on the Preliminary Final Draft of the RPM3 taking account of views, comments and suggestions made at the SAC13 and the WGFD12 and is submitted to this IG15 for review, discussion, providing guidance, and decision as appropriate in Agenda Item 7.

III-8 International Cooperation

III-8-1 Long-Range Transboundary Air Pollutants in Northeast Asia (LTP)

57. 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 15th Expert Meeting and the

Task Force Meeting for discussing the activities in the 4th stage for the LTP project, organized by the NIER, Republic of Korea, and held in Busan, Republic of Korea on 14-16 November 2012. Assessment report for the LTP project was drafted and its executive summary was mainly discussed in the Task Force Meeting. The annual reports on monitoring and modeling activities in each country were presented by the experts of three countries in the Expert Meeting. Achievements of the LTP project and the activities in 2012 were also reported by the secretariat in the meeting. The 4th stage research plan as well as the contents of the proposal for the future development of the LTP project were discussed at the Working and Sub-working Groups. Based on the decision at the meeting, the 13th Annual Report was submitted to the secretariat at the end of February 2013.

58. The 16th Expert Meeting for LTP project was held in Seoul on May 14, 2013. Each party generally agreed on the draft roadmap of the 4th stage research plan of the project, including; 1) developing guideline for monitoring and modeling for PM_{2.5} and its precursors; 2) submitting long-term monitoring data of PM_{2.5} and its precursors; 3) quantifying the long-range transport of PM_{2.5}; and 4) submitting a summary report for policy makers. However, they also acknowledge that each country has different conditions and capacities which need to be considered when implementing the roadmap. Each party tentatively agreed that the 17th LTP Expert Meeting will be held in Republic of Korea in November 2014.

III-8-2 Cooperation with Other Networks/Initiatives/Forums in Asia

59. The Secretariat and the NC cooperated with other networks/initiatives in Asia as follows,
- The Secretariat and the NC attended, made presentations and exchanged information and views at the Better Air Quality (BAQ) 2012 Conference organized by Clean Air Asia (former Clean Air Initiative for Asian Cities – CAI-Asia) in December 2012 in Hong Kong.
 - The Secretariat attended the Seventeenth Senior Official Meeting (SOM) of North-East Asian Subregional Programme for Environmental Cooperation (NEASPEC) organized by UNESCAP (Secretariat of NEASPEC) in December 2012 in Chengdu, China.
 - The Secretariat attended the Regional Intergovernmental Consultation on Near-Term Climate Protection and Clean Air Benefits in Asia and the Pacific organized by Climate and Clean Air Coalition (CCAC) to Reduce Short-Lived Climate Pollutants on 4-5 February 2013 in Bangkok, Thailand.
 - The Secretariat attended the Fourth Governmental Meeting on Urban Air Quality in Asia organized by UNEP and Clean Air Asia on 6 February 2013 in Bangkok, Thailand.
 - The Secretariat attended and made a presentation at the International Workshop on Strengthening the International Cooperation Framework and Science-Policy Interface to Promote Air Pollution Control in East Asia 2013 organized by Institute for Global Environmental Strategies (IGES) in February 2013 in Tokyo, Japan.

- The Secretariat attended and made a presentation at the IG13 of Malé Declaration on Control and Prevention of Air Pollution and its Likely Transboundary Effect for South Asia including its Seventh Regional Stakeholders cum Coordination Meeting (RSC7) in May 2013 in Dhaka, Bangladesh.
- The Secretariat attended and made a presentation at the International Workshop on Air Quality in Asia organized by Toyota Motor Asia and Pacific in May 2013 in Singapore.
- The Secretariat attended and made a presentation at the International Forum for Sustainable Asia and the Pacific (ISAP 2013) organized by Institute for Global Environmental Strategies (IGES) on 23-24 July 2013 in Yokohama, Japan.
- The Secretariat co-chaired the Advisory Group Meeting of Asian Co-benefit Partnership on 23 July 2013 in Yokohama, Japan.
- The Secretariat collaborated with German International Cooperation (GIZ) in a project on Clean Air for Smaller Cities in the ASEAN region and visited Myanmar to provide training and technical advice for the development of air quality monitoring plan in Yangon, Myanmar by Yangon City Development Committee during 29 July–2 August 2013.

IV. CHALLENGES/PROBLEMS/SOLUTIONS IN EANET IMPLEMENTATION

60. The total financial contributions (revenues) that the Secretariat and the NC (core budget) received in 2012 from the participating countries to implement their EANET activities in 2012 were less than the budgets of the Secretariat and the NC (core budget) under the Work Program and Budget of the EANET in 2012 approved by the IG13. This is because some participating countries either did not make the contributions or made the contributions less than the estimated amounts. In 2012, the Secretariat and the NC also encountered cash flow problem during the beginning of the year since most participating countries made their financial contributions late in the year or in the following year. The situation in 2012 was the same as in 2011 which was also reported in the EANET meetings. Nonetheless, the Secretariat and the NC were able to manage to implement activities under the Work Program and Budget of the EANET in 2012 within the available revenues through their cost saving efforts.
61. Therefore, the participating countries of the EANET are encouraged to make voluntary financial contribution to the EANET in accordance with 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. The financial contribution should also be made as early in the year as possible to prevent cash flow problem.
62. The status of Regional Resource Centre for Asia and the Pacific (RRC.AP) in which the Secretariat has been housed since 2002 has been unstable and uncertain due to the recent

arrangement between UNEP and Asian Institute of Technology (AIT) on RRC.AP. Besides, RRC.AP has continued to operate without a Director for several years. In addition, AIT, the mother organization of RRC.AP is also facing management and financial crisis. Therefore, there is an urgent need to review and decide on the future arrangement of the Secretariat as soon as possible.

63. 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 future arrangement of the Secretariat and the expansion of the scope of the EANET.
64. The participating countries that have not fully implemented monitoring of all the priority chemical species on wet deposition, dry deposition, soil and vegetation/forest areas, and inland aquatic environment, including the necessary meteorological parameters, as recommended under the current scope of the EANET, should do so to enable a more comprehensive evaluation of the state of acid deposition and air pollution in East Asia by the EANET. In particular the monitoring of tropospheric ozone, fine particulates and meteorological parameters should be implemented at the EANET monitoring sites that are currently not making these measurements.
65. One participating country has still not signed the Instrument for Strengthening the Acid Deposition Monitoring Network in East Asia (EANET) although the Resolution on the Encouragement of the participating countries of the EANET to effectively implement the Instrument for Strengthening the Acid Deposition Monitoring Network in East Asia (EANET) was issued by the IG14 in November 2012. For the effective implementation of the Instrument, the remaining participating country is encouraged to expedite its internal process for the signing of the Instrument.
66. 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.

Annex 1

Table 1 - Voluntary Financial Contributions from the Participating Countries to the Secretariat in 2012 and 2013 (US\$) as of 15 November 2013

Countries	2012 Budget		2013 Budget	
	Expected	Actual	Expected	Actual
Cambodia	66.30	66.30	71.00	71.00
China	69,027.00	15,000.00	73,942.00	---
Indonesia	5,152.70	---	5,519.00	---
Japan	271,216.00	271,216.00	290,526.00	290,526.00
Lao PDR	(22) 50.00*	50.00	(24) 50.00*	50.00
Malaysia	5,475.00	5,449.00	5,865.00	5,839.00
Mongolia	(44.2) 50.00*	50.00	(47) 50.00*	50.00
Myanmar	128.00	125.81	137.00	137.00
Philippines	1,949.00	1,941.50	2,088.00	2,088.00
R. of Korea	48,920.00	48,920.00	52,403.00	52,403.00
Russia	34,677.00	37,146.00	37,146.00	37,146.00
Thailand	4,520.80	4,520.80	4,843.00	4,843.00
Vietnam	716.00	950.00	767.00	945.00
Total Contribution	441,914.00	385,435.41	473,378.00	394,098.00

* 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).

**Table 2 - Contributions from the Participating Countries to the NC
Core Budget in 2012/2013 (US\$) (as of 15 November 2013)**

Countries	2012 Budget		2013 Budget	
	Expected	Actual	Expected	Actual
Cambodia	59	59	59	59
China	61,855	---	61,855	
Indonesia	4,617	---	4,617	
Japan	525,037	355,680	243,037	126,559
Lao PDR	20*	50	20*	50
Malaysia	4,907	---	4,907	
Mongolia	40*	47.50**	40*	50
Myanmar	115	115	115	91.54***
Philippines	1,746	---	1,746	1,746
R. of Korea	43,837	---	43,837	
Russia	31,074	31,074	31,074	31,074
Thailand	4,051	4,051	4,051	4,051
Vietnam	642	1,450	642	945
Total	678,000	392,526.50	396,000	164,625.54

* 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).

** This figure is after deduction of the overhead charge of 5% (US\$2.50) by Asian Institute of Technology (AIT).

***Because Myanmar's remittance was made in Euro via a bank in Germany, US\$-Euro exchange rate and bank handling charge affected the amount received at the NC's bank account.

Annex 2

**Schedule for the Recruitment of the Coordinator of the Secretariat for the EANET
(2014-2016)**

Dates	Activities
October 2013	Issuing vacancy announcement to the NFPs of the participating countries and websites
October – November 2013	The EANET Secretariat establishes a Selection Committee composed of a representative of the EANET as agreed by the NFPs, the Director of RRC.AP, and a representative from UNEP ROAP. The EANET Secretariat will serve as the Secretariat for the Selection Committee.
29 November 2013	Deadline for submitting application to the Secretariat.
13 December 2013	Distributing a long list of all applicants to the NFPs, the NC and the Selection Committee.
16 December 2013 – 10 January 2014	The Selection Committee will review application forms of all applicants and selects a short list of candidates.
13 January – 7 February 2014	Sending the short list of candidates selected by the Selection Committee to the NFPs and the NC for view, comment, and recommendation to be sent back to the EANET Secretariat in one month.
10 – 21 February 2014	The Selection Committee will interview the short-listed candidates, and select at least two final candidates by order of priority, taking account of the comments by the participating countries and the NC with special attention to the recommended candidates from the participating countries.
24 – 28 February 2014	The EANET Secretariat will inform the NFPs of at least two selected final candidates by order of priority.
1 April 2014	RRC.AP will appoint the new Coordinator of the Secretariat for the EANET for two years.

Annex 3

Members of the Task Forces and Expert Groups under the SAC and Meeting Plan in 2013

Name	Members	Meeting plan in 2013
Task Force on Monitoring for Dry Deposition	Dr. Cho Seog-Yeon (R. of Korea) - Chairperson 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) - Chairperson 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	<p>Prof. Wang Ruibin (China) - Chairperson Mr. Chhek Roth (Cambodia) Mr. Zheng Haohao (China) Ms. Novy Farhani (Indonesia) Dr. Tsuyoshi Ohizumi (Japan) Ms. Setouvanh Phanthavongsa (Lao PDR) Ms. Ying Ying Toh (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) Mr. Pichaid Atipakya (Thailand) Mr. Tran Son (Vietnam)</p>	-
Name	Members	Meeting plan in 2013
Task Force on Research Coordination	<p>Dr. Sergey Gromov (Russia) - Chairperson 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)</p>	6 th Meeting on 24 September 2013 in Xiamen, China (back to back with SAC13)
Expert Group on Dry Deposition Flux Estimation	<p>Dr. Pojanie Khummongkol (Thailand) - Chairperson Dr. Kazuhide Matsuda (Japan) Dr. Kentaro Hayashi (Japan) Dr. Akira Takahashi (Japan) Dr. Hiromasa Ueda (Japan) Dr. Chang Lim-Seok (R. of Korea)</p>	SAC13 agreed the dissolution of this Expert Group and recommends the IG for approval.
Expert Group on Revision of Technical Manual on Wet Deposition Monitoring	<p>Dr. Hiroshi Hara (Japan) - Chairperson 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)</p>	SAC13 agreed the dissolution of this Expert Group and recommends the IG for approval.

Expert Group on Revision of Technical Manual on Inland Aquatic Environment Monitoring	Dr. Tamara Khodzher (Russia) - Chairperson Dr. Simon S. Brahmana (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)	SAC13 agreed the dissolution of this Expert Group and recommends the IG for approval.
Expert Group on Preparation of Technical Manual for Air Concentration Monitoring	Dr. Duong Hong Son (Vietnam) – Chairperson 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)	3 rd Meeting on 4-5 September 2013 in Niigata, Japan

Annex 4

National Training Activities in the Participating Countries of EANET in 2012

Country	Title of Training Course	Duration	No. of Participants	Major Topics
Cambodia	None	-	-	-
China				
Indonesia				
Japan	Training of atmospheric monitoring and management of data and analysis	3- 7 September 2012 5 days	50	1) Atmospheric environment monitoring issues 2) Water quality management
	Training of atmospheric and traffic environment monitoring	18-21 September 2012 4 days	89	Preservation of atmospheric environment
	Training of equipment operation	14-29 June 2012 12 days	42	Sampling/analytical methods for atmospheric monitoring
	Audit (inspection and guidance) of national monitoring sites, including EANET monitoring sites	26 days	70	Site and laboratory audit
Lao PDR	None	-	-	-

Country	Title of Training Course	Duration	No. of Participants	Major Topics
Malaysia	Training course on Meteorological Aspect of Air Pollution Observation	17-23 June 2012 7 days	30	<ul style="list-style-type: none"> Air pollution - Acid deposition - Instruments troubleshooting - Calibration - QA/QC - Aerosol monitoring
Mongolia	Acid Deposition Monitoring, Water quality & Air quality monitoring, Soil monitoring	19-30 March 2012 10 days	9	<ul style="list-style-type: none"> - pure knowledge for Environmental pollution, urban air pollution, transboundary air pollution, acid deposition; - theory with practice for measurement and analysis of atmospheric air pollution, surface water, soil monitoring,
	Soil Monitoring, Desertification, Evaluation of Desertification	14-31 May 2012 14 days	25	<ul style="list-style-type: none"> - sampling techniques - soil monitoring - data processing
	Emission Source Inventory and Simulation	14-17 Sep 2012; 20-23 Nov 2011 3 days, 2 times	15	<ul style="list-style-type: none"> - making of air pollutant emission inventory - monitoring of air pollutant emission source - air pollution simulation - reduction of air pollutant emission - air quality monitoring
	Seminar for Air Pollution and Environmental Degradation	2 days	100	Effect and consequences of air pollution for human disease
	Follow up Seminar for Air pollution	1 day	20	Reduction and elimination of air pollution

Country	Title of Training Course	Duration	No. of Participants	Major Topics
Myanmar	Information on the Data Quality on the Acid Deposition Monitoring	13-15 May 2012 3 days	6	<ul style="list-style-type: none"> - To exchange views and information on the data quality on the acid deposition monitoring of EANET in Myanmar - To exchange views and information on the soil and vegetation monitoring in Myanmar as future activities of EANET - To confirm the implementation of Filter Pack Sampling and - Others
	Training on Acid Deposition Monitoring and Air Pollution Monitoring	1-7 January 2012 7 days	13	Acid Deposition Monitoring, Mechanism of Acid Deposition, the Effects and Problem of Acid Rain, knowledge of Air Pollution
	Wet & Dry Deposition Monitoring, Sampling and Analysis	21 November 2012 1/2 day	6	<ul style="list-style-type: none"> - To information on including check on condition of analytical instruments - To discuss the maintenance of sampling instruments for dry deposition
	Training on Atmospheric Air Pollution	10-13 December 2012 4 days	40	Air Pollution, source of Air Pollutants, Impact of Air Pollution

Country	Title of Training Course	Duration	No. of Participants	Major Topics
Philippines	Training on Spatial Distribution to Emission Inventory using GIS/Map Window	1-3 September 2012 3 days	55	Spatial Distribution
	Hands-on training on dispersion and noise modeling	4-6 September 2013	55	Program/logic structure of the Gaussian Model (Air dispersion) AERMOD
	2011 Inter-comparison exercises for DENR-EMB Laboratory Analysts	3-12 October 2012 8 days	45	Inter-comparison exercises on the analyses of parameters pH, BOD5, chloride, COD, TSS, Oil and Grease and metals in water/wastewater, and ambient SO ₂ .
	Lecture forum/workshop on Air Quality Assessment, Control and Management	25-29 June, 2012 5 days	25	Control of particulate matter, gases and vapor from stationary sources, air quality standards and regulations in US, health and environmental effects
	Lectures on UNEP dioxin and furans emission inventories	3 days	30	Conduct of emission inventories in open dumpsite, agricultural and industrial
	Training/Workshop on GHG Inventory Process	21-25 August, 2012 5 days	40	Training on Greenhouse Gas Inventories
	National GHG Inventory Workshop	16-19 October, 2012 4 days	40	Conduct of emission inventories
R. of Korea				
Russia				
Thailand	Training on operation and maintenance of automatic air monitoring instruments	29 November - 1 December 2012 3 days	20	Theory and general information of instruments, operating and maintenance procedure of the instruments

Vietnam	“Acid Deposition Monitoring and QA/QC in Environmental monitoring” In Ha Noi City	20 -21 November, 2012 (2days)	6	Introduction on Acid Deposition Monitoring, EANET, Wet deposition monitoring, Dry deposition monitoring, Inland aquatic environment, Soil and vegetation; QA/QC in Environmental monitoring
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Training Requirements

Country	Requirements
Cambodia	Basic training on acid deposition monitoring
China	
Indonesia	
Japan	None
Lao PDR	Basic training on acid deposition Specific topics
Malaysia	Basic training on acid deposition monitoring Specific topics: i. Modeling Training Workshop ii. Data analysis and interpretation training iii. EANET Individual Training Programme
Mongolia	Basic training on acid deposition monitoring Specific topics: Training on chemical analysis for dry deposition, soil& vegetation and QA/QC activities, data analysis& interpretation, data quality
Myanmar	Basic Training on acid deposition monitoring Training on Dry Deposition Monitoring Training on Chemical Analysis and QA/QC activities for new technical staff (The training will help to improve the national EANET activities.)
Philippines	Basic training for new personnel.
R. of Korea	
Russia	
Thailand	Specific Topics on integrated data analysis of wet deposition, dry deposition, soil and vegetation and inland aquatic to assess the status of acidification in the ecosystem
Vietnam	Basic training on acid deposition monitoring for new site and new laboratory Specific Topics: Wet Deposition Monitoring: The training should help to improve the national EANET activities.

Suggestions in EANET Training Activities

<ol style="list-style-type: none"> 1. We need basic training course on Acid Deposition Monitoring because of new staffs 2. 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 3. Should be extended duration of Individual Training Course 4. Dispersion Modeling Training Workshop 5. Data evaluation and assessment training 6. Training on the conduct of modeling validation for example actual monitoring using passive and active monitors/samplers
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7. Training on data assimilation and scenarios for long-term planning
8. Provide the basic information on acid deposition monitoring and practices.

i) Use of EANET Printed Materials

Mongolia

EANET publications /brochures, bulletin, guidelines, report, technical documents... /, publications of projects, programs /RAINS ASIA, EMEP and so on/, ACAP publications /papers.../These publications will be very useful to exchange information and experience for training, seminars, workshops, public awareness and education etc.

Philippines

No	Event	Characteristics of the participants (scientists, government administrative officers, general citizens, students, etc.)	Purpose of Fact Sheets
1	Clean Air Month promotional activities	Scientist, non-government organization, local officials, general citizens	For information on acid deposition status and awareness
2	National Workshop on Air Quality Management	Government officials	For awareness
3	Airshed Workshop	National government, private organization, non-government organization, local officials	For planning, policy formulations

- ii) What kind of materials will help your training/public awareness needs?
(brochures, pamphlets, flyers, manuals on acid deposition, effects and sources of acid deposition)**

Thailand

- Periodic Report on the State of Acid Deposition in East Asia
- Technical Manuals
- Annual Data Reports
- Others: Materials on general information of acid deposition and/or EANET such as poster, roll up, etc.

Annex 5

Summary of the Technical Missions of the NC after the IG14

Country	Duration	Major Activities/Outcomes of the Mission
Myanmar	21 November 2012	The mission repaired a wet only sampler and a filter pack instrument at the Yangon site and provided necessary consumables for EANET monitoring in Myanmar. The mission also exchanged information on monitoring data and laboratory equipment with the Department of Meteorology and Hydrology (DMH) staffs.
Malaysia	18-22 February 2013	The mission exchanged views and information on ozone monitoring, and specifically discussed establishment of traceability of ozone monitoring. The mission visited both Danum Valley site and Tanah Rata site and calibrated the installed ozone monitors. The mission also had a meeting with the Malaysian Meteorological Department (MMD), provided leak-checker devices for filter-pack and demonstrated their operation.
Russia	14-19 July 2013	The mission visited the Limnological Institute, Russian Academy of Sciences, Siberian Branch (LI/RAS/SB), Primorsky Center for Environmental Monitoring (PCEM) and Primorsky Administration for Hydrometeorology and Environmental Monitoring (PRIMGIDROMET) and exchanged views and information on EANET activities in Russia and discussed on monitoring data from Russia. The mission also visited atmospheric monitoring site “Irkutsk”, inland aquatic monitoring site “Pereyemnaya River”, and three candidate atmospheric monitoring sites in “Lazovsky” district and made recommendation for the selection of the site.
Mongolia	21-25 October 2013	The mission visited the Central Laboratory of Environment and Metrology (CLEM), Mongolia and monitoring sites in Ulaanbaatar that automatic air concentration monitoring has been implemented. The mission also exchanged views and information on the EANET monitoring in Mongolia including ozone and PM monitoring issues in Mongolia with the staff of CLEM.