

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

REPORT OF THE SESSION

I. INTRODUCTION

1. The Intergovernmental Meeting (IG) on the Acid Deposition Monitoring Network in East Asia (EANET) held its Fifteenth Session (IG15) in Chonburi, Thailand on 16-17 December 2013.
2. Representatives of the participating countries, namely Cambodia, China, Indonesia, Japan, Lao PDR, Malaysia, Mongolia, Union of Myanmar, Philippines, Republic of Korea, Russia, Thailand and Vietnam participated in the Session. Representatives of the Secretariat and the Network Center (NC) for the EANET and UNEP, as well as experts from the Secretariat of Convention on Long-range Transboundary Air Pollution (CLRTAP), United Nations Economic Commission for Europe (UNECE); Secretariat for Climate and Clean Air Coalition to Reduce Short-Lived Climate Pollutant (CCAC), Division of Technology, Industry and Economic (DTIE), UNEP; Secretariat of North-East Asian Subregional Programme for Environmental Cooperation (NEASPEC), Sub-regional Office for East and North-East Asia (ENEA), United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP); Regional Resource Centre for Asia and the Pacific, Asian Institute of Technology (RRC.AP/AIT); Asia Center for Air Pollution Research (ACAP); Institute for Global Environmental Strategies (IGES); German International Cooperation - Thailand (Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH – GIZ-Thailand); and Kanazawa University; and observers and the consultant attended the Session. The List of Participants is attached as Annex 1.

II. OPENING OF THE SESSION (AGENDA ITEM 1)

3. His Excellency Dr. Pithaya Pookaman, Advisor to the Minister of Natural Resources and Environment of Thailand delivered Welcome and Opening Address to open the Session. He welcomed all participants to Thailand and expressed his sincere appreciation for giving the opportunity to Thailand to host the meeting. He congratulated the success of the EANET. He emphasized that Thailand has actively participated in the EANET activities including continuous financial contribution to the EANET. He highlighted important achievements of Thailand in monitoring, capacity building, research activities and environmental education programs. He reaffirmed Thailand's commitment towards supporting the EANET activities. He mentioned the efforts and measures that have been implemented by Thailand to reduce air pollution as well as efforts to improve and protect

local and regional environmental quality.

4. Dr. Young Woo Park, Regional Director of UNEP ROAP, delivered Opening Remarks. He welcomed the participants to the IG15 and conveyed his appreciation to Thailand in hosting the IG15. He mentioned the study by USEPA and NASA which reported that one million deaths possibly due to PM2.5 and over 200,000 deaths due to ozone. He also informed that WHO International Agency for Research on Cancer (IARC) in October of this year classified outdoor air pollution as a leading environmental cause of cancer deaths. UNEP would like to assist the governments and partners in this region to find the best way and modality to enhance cooperation and coordination in the area of air pollution and near-term climate protection in Asia. He advised that UNEP is already in the process of establishing a dynamic integrated regional air pollution and climate change hub a UNEP ROAP, which would be able to support governments and partners in the regional cooperation and coordination in the area of air pollution. He strongly recommended the participating countries to work together cooperatively for the future of the EANET.
5. Dr. Jonathan Shaw, Deputy Director of RRC.AP/AIT, delivered the Opening Remarks. He welcomed the participants to the IG15. He congratulated the EANET for becoming one of the most successful and sustained regional cooperation on atmospheric environment in Asia with continuous improvement and strong commitment of the partnerships among the EANET participating countries. He expressed sincere gratitude to the participating countries for their cooperation and supports to the EANET including financial contributions made to the Secretariat budget. He encouraged the participating countries to continue making efforts to fully implement the Instrument. He mentioned that the EANET Secretariat has been housed at RRC.AP for more than a decade and the function of the Secretariat has been carried out successfully. RRC.AP also provides the Secretariat functions for other initiatives in Asia, such as Malé Declaration for South Asia, Atmospheric Brown Clouds Programme, Joint Forum on Atmospheric Environment in Asia and the Pacific, and Ministerial Regional Forum on Environment and Health and other major initiatives in Asia. He confirmed that RRC.AP will be pleased to continue to provide the Secretariat functions for the EANET.
6. Dr. Kilaparti Ramakrishna, Director of UNESCAP Sub-regional Office for East and North-East Asia (ENEA), Secretariat of NEASPEC as a guest speaker made a presentation on activities and plan of NEASPEC on atmospheric environmental issue in North-East Asia. He informed that NEASPEC is looking forward to building synergies with existing mechanisms, notably, EANET.

III. ELECTION OF OFFICERS (AGENDA ITEM 2)

7. The Session elected Ms. Araya Nuntapotidech, Deputy Director General of Pollution Control Department, Ministry of Natural Resources and Environment, Thailand as

Chairperson of the Session, Mr. Heng Nareth, Director of Department of Pollution Control, Ministry of Environment, Cambodia and Dr. Batbayar Jadamba, Director of Environmental Monitoring Department, National Agency for Meteorology and Environmental Monitoring, Mongolia, as Vice Chairpersons, and Engr. Jean N. Rosete, Engineer IV - Chief Air Quality Management Section, Environmental Quality Division, Environmental Management Bureau (EMB), Department of Environment and Natural Resources, Philippines, as Rapporteur.

IV. ADOPTION OF THE AGENDA (AGENDA ITEM 3)

8. The Session considered and adopted the Provisional Agenda (EANET/IG 15/3/1), Annotated Provisional Agenda (EANET/IG 15/3/2), and Draft Program (EANET/IG 15/3/3) proposed by the Secretariat and the NC.

V. CONSIDERATION ON THE DRAFT REPORT ON THE PROGRESS OF THE ACID DEPOSITION MONITORING NETWORK IN EAST ASIA (EANET) SINCE THE FOURTEENTH SESSION OF THE INTERGOVERNMENTAL MEETING (IG14) AND THE DRAFT FINANCIAL REPORT OF THE SECRETARIAT AND THE NETWORK CENTER IN 2012 (AGENDA ITEM 4)

9. The Secretariat and the NC presented the Draft Report on the Progress of the Acid Deposition Monitoring Network in East Asia (EANET) since the Fourteenth Session of the Intergovernmental Meeting (IG14) (EANET/IG 15/4/1) and the Draft Financial Report of the Secretariat and the Network Center in 2012 (EANET/IG 15/4/2). The Session was invited to review and endorse the reports.
10. Major points of discussion were as follows;
 - i. China introduced the efforts and progress on air pollution prevention and control during the “12th Five Year” period and the Action Plan on Air Pollution Prevention and Treatment. A brochure of Progress on Air Pollution Prevention and Control in China was circulated and introduced to share the work progress on this area with participating countries. China is making efforts on adopting different measures to further improve the air quality. It is willing to exchange opinions frankly with all parties on air pollution issue.
 - ii. Indonesia informed the Session that after two long years of internal consultation among relevant agencies in Indonesia, Indonesia now stands ready to sign the Instrument for Strengthening the Acid Deposition Monitoring Network in East Asia (EANET) and intends to make voluntary in-kind contributions to the EANET.

11. The Session welcomed the efforts and progress made by China in the prevention and control of air pollution in China through the implementation of an Action Plan on Air Pollution Prevention and Treatment.
12. The Session also welcomed the announcement made by Indonesia of its readiness to sign the Instrument and intention to make voluntary in-kind contributions.
13. The Session endorsed the Report of the Progress of the EANET since the IG14 and the Financial Report of the Secretariat and the NC in 2012.

VI. CONSIDERATION ON THE REPORT ON THE OUTCOMES OF THE THIRTEENTH SESSION OF THE SCIENTIFIC ADVISORY COMMITTEE (SAC13) (AGENDA ITEM 5)

14. Dr. Sergey A. Gromov, Chairperson of the SAC13, presented the Report on the Outcomes of the SAC13 (EANET/IG 15/5). The Session was invited to review, discuss, and endorse the report and provide appropriate guidance for further development of the activities of the Scientific Advisory Committee (SAC).
15. The Session expressed appreciation to the three Expert Groups, namely Expert Group on Dry Deposition Flux Estimation, Expert Group on Revision of the Technical Manual on Wet Deposition Monitoring and Expert Group on Revision of the Technical Manual on Inland Aquatic Environment Monitoring proposed to be dissolved by the SAC13, for their works completed for the EANET.
16. The Session endorsed the Report on the Outcomes of the Thirteenth Session of the Scientific Advisory Committee (SAC13) (EANET/IG 15/5) including the new EANET Technical Manual for Air Concentration Monitoring and the dissolution of the three Expert Groups.

VII. CONSIDERATION ON THE 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 (AGENDA ITEM 6)

17. The Secretariat and Ms. Leong Chow Peng, Consultant, presented the 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 (EANET/IG 15/6) drafted by the consultant in collaboration with the Secretariat and the NC. The Session was invited to review, discuss, make comments, provide guidance, and endorse the report.
18. It was clarified that the parameters not currently monitored in some participating countries and recommended to be included in their National Monitoring Plans are fine particulates,

ozone, and meteorological parameters to enable more comprehensive evaluation of the state of acid deposition and air pollution in East Asia.

19. The Session endorsed the Mid-Term Report on the Implementation of the MTP (2011-2015) taking note of the recommendations made in the report for the improvement of the implementation of the MTP.

VIII. CONSIDERATION ON THE FINAL DRAFT OF THE THIRD REPORT FOR POLICY MAKERS (RPM3) (AGENDA ITEM 7)

20. The Secretariat and Ms. Leong Chow Peng, Consultant, presented the Final Draft of the Third Report for Policy Makers (RPM3) (EANET/IG 15/7) which was developed by the consultant in collaboration with the Secretariat and the NC and in consultation with the participating countries. The development of the RPM3 is in accordance with 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 Session was invited to review, discuss, make comments and suggestions, provide guidance, and make decision, as appropriate.
21. The Session took note that the participating countries provided comments on the Final Draft of the RPM3 including a revised version (EANET/IG 15/7 Attachment 2) submitted by China earlier.
22. Major points of discussion were as follows;
 - i. There was a suggestion that since there are still substantively different views on the contents of the RPM3, it is not appropriate for the IG15 to go through the Final Draft of the RPM3 in detail due to time constraint and necessity to involve relevant experts from participating countries for discussion. Therefore, there is a need to organize a special expert meeting or communication through e-mail to finalize the RPM3.
 - ii. There was a concern that if the RPM3 is delayed, the information contained in the Final Draft of the RPM3 will then become outdated. It was recommended that the RPM3 should be published sometime early next year.
 - iii. The Secretariat made the clarification on the implications if the decision on the Final Draft of the RPM3 is postponed and a special expert meeting is convened to finalize the RPM3 that there will be financial implication since there is no budget allocated in 2014 to convene such a special expert meeting and it will not be in accordance with the schedule specified in the MTP (2011-2015).
 - iv. Japan informed the Session that the priority is to publish the RPM3 in accordance with the schedule.
 - v. Malaysia informed the Session that the photograph on haze on page 11 of the Final

Draft of the RPM3 was taken in Kuala Lumpur and would like to have that photograph retained in the RPM3.

23. The Session agreed to continue the consultation process among the National Focal Points to finalize the RPM3 by the end of March 2014 for publication by June 2014. The Secretariat is requested to facilitate the consultation process through e-mails and other communication means.

IX. CONSIDERATION ON THE DEVELOPMENT OF THE DRAFT REPORT OF THE REVIEW ON THE STATE OF AIR POLLUTION IN EAST ASIA (AGENDA ITEM 8)

24. The NC, as the Secretariat of the Reviewing Committee on the State of Air Pollution in East Asia, presented the Development of the Draft Report of the Review on the State of Air Pollution in East Asia (RSAP) (EANET/IG 15/8) on behalf of Dr. Carandang and Prof. Cho, Co-Chairpersons of the Reviewing Committee. The Session was invited to review, discuss, and make comments and suggestions, for further development of the report.
25. Major points of discussion were as follows;
- i. There was a suggestion that since the content of the draft Report of the Review on the State of Air Pollution in East Asia covers wider scopes, it might be beyond the expertise of the members of the SAC to endorse the Report. Therefore, the role of the SAC is to take note but not to endorse the Report.
 - ii. The NC clarified that experts from the participating countries and outside the EANET could be invited as reviewers to assist the SAC to review the Report to overcome such a concern.
 - iii. There was a suggestion that the Report could be commented on by UNECE and UNEP before the next meeting of the Reviewing Committee.
 - iv. The representative from UNECE and UNEP confirmed that they will be pleased to provide comments on the Report.
 - v. There was a suggestion that the technical reports of the EANET should go through a Peer Review process to ensure high quality of the reports.
26. The Session agreed that the Reviewing Committee continues to complete the Report for submission to the Seventh Meeting of the Task Force on Research Coordination (TFRC7), the Fourteenth Session of the Scientific Advisory Committee (SAC14), the Thirteenth Session of the Working Group on Future Development (WGFD13) of the EANET, and subsequently the Sixteenth Session of the Intergovernmental Meeting (IG16) on the EANET for its consideration.

X. CONSIDERATION ON ISSUES ON THE FUTURE DEVELOPMENT OF THE EANET (AGENDA ITEM 9)

X.1 Review Report on the Future Arrangement of the Secretariat for the EANET

27. The Secretariat presented the Review Report on the Future Arrangement of the Secretariat for the EANET which was prepared in collaboration with UNEP Regional Office for Asia and the Pacific (ROAP) (EANET/IG 15/9/1). The Session was invited to review, discuss, make comments and suggestions, provide guidance, and make decision, as appropriate.
28. Major points of discussion were as follows;
- i. Some countries prefer Option 1B while some prefer Option 2.
 - ii. The Secretariat clarified that if Option 1B is selected, then a new Framework between the EANET and UNEP and a formal arrangement concerning the provision of the EANET Secretariat functions by UNEP through RRC.AP as per Option 1B will be developed.
 - iii. The Session welcomed China's Proposal on Providing In-kind Support to the EANET Secretariat by sending a Senior Official to the EANET Secretariat.
 - iv. UNEP was requested to assign an official to work with the EANET and provide all necessary supports during the transitional period.
 - v. It was suggested that the Secretariat should explore further cost reduction measures to partly offset the cost increase expected under the new arrangement.
 - vi. UNEP clarified that there will be a number of steps for the preparation of the new arrangement, i.e. revising the Framework between the EANET and UNEP, developing the Terms of Reference of the UNEP Trust Fund for the EANET, and developing a formal arrangement between UNEP and AIT for the provision of the EANET Secretariat functions by UNEP through RRC.AP .
29. The Session decided to select Option 1B for the new arrangement of the EANET Secretariat as DECISION 1/IG.15 presented in Annex 2.
30. The Session agreed to hold an Extraordinary Session of the IG before the IG16 to consider the detail arrangements of the EANET Secretariat under Option 1B aiming at starting the operation of the EANET Secretariat under the new arrangement of Option 1B as early as possible after the IG16..
31. The Session agreed to extend the tenure of the current staffs of the EANET Secretariat for one more year without going through the ordinary recruitment process and review further extension at the Extraordinary Session of the IG.

X.2 Future Expansion of the Scope of the EANET

32. The NC presented the Future Expansion of the Scope of the EANET (EANET/IG 15/9/2). The presentation included Review on the State of Air Pollution in East Asia, Scientific Reconsideration of EANET Monitoring Structure and Proposal of Action Plan within the Present Scope. The Session was invited to review, discuss, make comments and suggestions, provide guidance, and make decision, as appropriate.
33. Major points of discussion were as follows;
- i. There were different views on whether the organizational arrangement of the EANET should be reviewed in parallel with the consideration of the expansion of the scope of the EANET.
 - ii. Establishment of new Network Centers such as clean technology, research and study Network Centers was proposed.
 - iii. There was a suggestion that the strengthening of monitoring activities for PM₁₀, PM_{2.5} and O₃ could be considered since they are currently in the present scope of the EANET.
 - iv. There was a concern on the limited capacity of the participating countries on the monitoring of PM_{2.5} and O₃, therefore the scope of the EANET should be expanded on a step-by-step basis.
 - v. There was a suggestion that a review assessment of the operational status of the NC and the Secretariat should be carried out and used as a basis for the consideration of the expansion of the scope of the EANET.
 - vi. It was also suggested that an assessment of the need for technical supports and capacity building should be considered in the expansion of the scope of the EANET.
 - vii. It was clarified by the expert from UNECE that there are twelve centers in the CLRTAP of which five centers are mandatory centers whereas other remaining seven centers are voluntary centers. The scope and the financial arrangement of these centers are decided by the Executive Body.
34. The Session agreed to task the NC to prepare a Prefeasibility Study on the expansion of the scope of the EANET including technical and capacity building issues and organizational and financial arrangements needed to support the expansion for the consideration of the IG16 in 2014.

XI. CONSIDERATION ON THE DRAFT PROPOSAL ON THE PRESENTATION OF THE EANET AWARDS OF RECOGNITION TO THE EXPERTS, SCIENTISTS, AND RESOURCE PERSONS FOR THEIR CONTRIBUTIONS TO THE EANET (AGENDA ITEM 10)

35. The Secretariat presented the Draft Proposal on the Presentation of the EANET Awards of Recognition to the Experts, Scientists, and Resource Persons for their Contributions to the EANET (EANET/IG 15/10) which was developed in consultation with the participating countries and reviewed by the SAC13 and the WGFD12. The Session was invited to review, discuss, make comments and suggestions, and give approval, as appropriate.
36. Major points of discussion were as follows;
- i. It was clarified by the Secretariat that it is not possible to determine exactly how many EANET Laureates will be selected for the awards at the final stage.
 - ii. There was a suggestion that the priority of the awards should be given to the experts and resource persons from the participating countries and a certain percentages of the numbers of the EANET Laureates from other countries other than the participating countries should be fixed.
 - iii. It was clarified that in order to give the flexibility to the participating countries in the selection of the nominees, it is up to the country to decide the criteria or guidelines for the selection of the nominees at the national level.
37. The Session approved the proposal in principle pending the possible suggested revisions to be sent to the Secretariat by the participating countries by the end of January 2014.

XII. CONSIDERATION ON THE DRAFT WORK PROGRAM AND BUDGET OF THE EANET IN 2014 (AGENDA ITEM 11)

38. The Secretariat and the NC presented the Draft Work Program and Budget of the EANET in 2014 (EANET/IG 15/11). The Session was invited to review, discuss, make comments and suggestions, and give approval, as appropriate.
39. There was a request to hold the IG in November.
40. It was proposed that additional place for the EANET Individual Training (one participant to be fully sponsored by the NC and another participant sponsored by the respective country) can be considered.
41. The Session approved the Draft Work Program and Budget of the EANET in 2014.

XIII. UPDATES ON ACTIVITIES OF OTHER INTERNATIONAL PROGRAMS RELATED TO ACID DEPOSITION AND TRANSBOUNDARY AIR POLLUTION (AGENDA ITEM 12)

XIII.1 Information on activities under Convention on Long-range Transboundary Air Pollution/Co-operative Programme for Monitoring and Evaluation of the Long Range Transmission of Air Pollutants in Europe (CLRTAP/EMEP) of relevance for the EANET

42. Mr. Krzysztof Olendrzynski, Environmental Affairs Officer, LRTAP Convention Secretariat made a presentation on the activities and progress of CLRTAP and EMEP.
43. He highlighted the adoption in 2012 of the amendments to the CLRTAP's Protocol to Abate Acidification, Eutrophication and Ground-level Ozone (Gothenburg Protocol) and the amendments to the Protocol on Heavy Metals. The amended Gothenburg Protocol includes emission reduction commitments for 2020 and beyond for fine particulate matter (PM_{2.5}) including black carbon. In December 2013, CLRTAP's Executive Body approved a Guidance document on health and environmental improvements. In addition to traditional environmental adverse impacts of air pollution: acidification and eutrophication, the other important impacts cover: health aspects mortality and morbidity (due to PM_{2.5} and ozone), biodiversity loss, damage to crops and to materials. He also informed about some other important decisions of the Executive Body on 2014-2015 workplan, guidelines for reporting of emission data under CLRTAP, and two policy relevant scientific reports on benefits of air pollution on biodiversity and ecosystem services, and on moss survey focusing on heavy metals and nitrogen.
44. In response to comments and questions by Japan and Lao PDR, he pointed to the need for more capacity building efforts with respect to atmospheric and effects monitoring and provided the rationale for a possible extension of the scope of EANET with respect to adverse effects of air pollution on health, damage to crops and materials and loss of biodiversity.
45. The Session expressed its appreciation to Mr. Krzysztof Olendrzynski for his presentation.

XIII.2 Atmospheric Brown Clouds (ABC) Programme and Air Pollution Networks

46. Mr. Mylvakanam Iyngararasan, Project Coordinator, UNEP Headquarters, briefed the Session on the progress regarding the Atmospheric Brown Clouds (ABC) Programme.
47. He briefed the achievements of the programme and highlighted the progress of the programme during 2013. Two new observatory sites have been established and a manual for compilation of ABCs emissions is published. He mentioned that understanding of atmospheric issues has been increased over the past decade and there is need to link the understanding and action.
48. The Session expressed its appreciation to Mr. Mylvakanam Iyngararasan for his presentation.

XIII.3 Malé Declaration on Control and Prevention of Air Pollution and Its likely Transboundary Effects for South Asia

49. Dr. Ram Lal Verma, Regional Resource Centre for Asia and the Pacific (RRC.AP), briefed the Session on the activities and progress of the Malé Declaration.
50. He presented and highlighted the progress on Phase IV (2010-2013) which aimed at strengthening the regional cooperation, strengthening the air pollution monitoring activities, enhancement of the impact assessment capacity, emission inventory and scenario development, development of air pollution reduction policies and regional framework, and awareness raising in South Asia. He briefly mentioned about the opportunities and way forward of the network. Regarding the next phase of Malé Declaration, Phase V (2014-2016), he pointed out that it will aim 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.
51. The Session expressed its appreciation to Dr. Ram Lal Verma for his presentation.

XIII.4 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)

52. Ms. Sophie Bonnard, Science and Programme Advisor, Secretariat for Climate and Clean Air Coalition to Reduce Short-Lived Climate Pollutants (CCAC), Division of Technology, Industry and Economics (DTIE), UNEP, made a presentation on the 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).
53. She explained about Short-Lived Climate Pollutants (SLCPs) which are responsible for a substantial fraction of the climate forcing experienced to date and except for HFCs they are also air dangerous pollutants, with various detrimental impacts on human health, agriculture and ecosystems. Recent reports coordinated by UNEP have identified many cost-effective readily available options for addressing SLCPs. If implemented rapidly, measures to reduce SLCPs would likely slow down the warming expected by 2050 by about 0.5°C with an potential additional 0.1°C of warming avoided through implementation of high GWP HFC alternatives; prevent a significant proportion of the estimated 6 million deaths annually from air-pollution related diseases; and avoid annual crop losses of tens of million tons. Reducing levels of black carbon and other particles in the atmosphere could also slow the melting of glaciers including the Himalayas and support the South Asian monsoon to return to a less disturbed state.
54. She added that by addressing air pollution and climate change issues at once, the Climate

and Clean Air Coalition to Reduce Short Lived Climate Pollutants (CCAC) is working to help connect resources in implementing development goals and relevant agreements to protect public health, food and energy security, and near term climate change. The CCAC is a voluntary, non-legally binding partnership. As of December 2013 it has 75 Partners including 34 countries. All Partners have endorsed meaningful action to address SLCPs. The Coalition is an action oriented for a working to translate the science into policy and action and is supported by a Scientific Advisory Panel. Asia is a key region for the Coalition and many activities have already been completed or are underway in the region. Under the supporting national planning for action on SLCPs, the CCAC convened an Intergovernmental Regional Consultation on SLCPs for Asia and Pacific in February 2013 in Bangkok with representatives from 19 countries, and a sub-regional meeting for the ASEAN region is being planned as a follow up. As activities are scaling up, the CCAC is turning attention to the regional level and should soon establish regional coordinators (within UNEP regional offices). The Coalition looks forward to further engaging with EANET and its member countries to scale up the work and join forces in this effort to address the SLCP challenge and deliver multiple benefits toward a more sustainable world. More information on the CCAC can be obtain from the CCAC website (<http://www.unep.org/ccac/>)

55. The Session expressed its appreciation to Ms. Sophie Bonnard for her presentation.

XIII.5 Proposal for Asia Science Panel on Air and Climate (ASPAC)

56. Dr. Hajime Akimoto, Director General of Asia Center for Air Pollution Research (ACAP) made a presentation on a Proposal for Asia Science Panel on Air and Climate (ASPAC) (EANET/IG 15/12/5) for the establishment of a scientific epistemic community of atmospheric environment research to strengthen the science policy interface on atmospheric environment issues.
57. He introduced that emissions of air pollutants and CO₂ in East Asia have already exceeded each of those in European and North American continent, and this situation brings about serious urban and regional air pollution in this area, as well as concerns from the point of hemispherical air pollution and climate change. He mentioned that ASPAC would synthesize the common understanding of Asian scientists, which could be the western views. Ad Hoc High-Level Science Meeting for Asian Air Pollution (HSMAP) 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. Prof. Yuan Tee Lee, President of International Council for Science (ICSU) is proposed as the Chair of HSMAP. He informed that ICSU launched a new initiative “Future Earth” which is a new 10-year international research initiative that will develop the knowledge for responding effectively to the risks and opportunities of global environmental change and for supporting transformation towards global sustainability in the coming decades.

58. The Session expressed its appreciation to Dr. Hajime Akimoto for his presentation.

XIII.6 Asian Co-benefits Partnership (ACP)

59. Prof. Katsunori Suzuki, Senior Fellow, Institute for Global Environmental Strategies (IGES) and Co-chair of ACP Advisory Group will brief the Session on the activities and progress of ACP.
60. He introduced the major outcomes of the recent ACP Advisory Group Meeting in July 2013 in Yokohama, Japan. He briefed 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 2014.
61. The Session expressed its appreciation to Prof. Katsunori Suzuki for his presentation.

XIII.7 Clean Air for Smaller Cities in the ASEAN Region Project

62. Ms. Manlika Sukitpaneent, National Coordinator for Thailand, German International Cooperation (Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH) made a presentation on the activities which are currently under taken and planned in ASEAN region under the project on Clean Air for Smaller Cities in the ASEAN Region.
63. She 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). The programme addresses transport and environmental issues aiming at local and global level. The other projects of the programme deal with sustainable port development (“Sustainable Port Development in the ASEAN Region” - SPD) and with transport and climate change, (“Energy Efficiency and Climate Change Mitigation in the Land Transport Sector of the ASEAN Region” - TCC). The programme is financed by the German Federal Ministry for Economic Cooperation and Development (BMZ) and jointly implemented by ASEAN and GIZ. The total budget of the programme is nearly US\$ 18 millions until the end of 2015.
64. She informed that CASC focuses on the development of clean air plans (CAP) for smaller cities (0.2 – 1.5 million 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. The ownership of the project is strictly with local governments, supported by the national executive level.
65. The Session expressed its appreciation to Ms. Manlika Sukitpaneent for her presentation.

XIV. OTHER ISSUES (AGENDA ITEM 13)

- 66. The Session was invited to discuss and consider other issues to be raised by the participants, the Secretariat and/or the NC, if any.
- 67. The representative of Thailand introduced its Air4Thai application which is a free software application available for mobile phones, tablets and computers to access on-line air quality data information in Thailand. The Air4Thai application is developed by the Pollution Control Department of Thailand and is available in both IOS and Android operating systems.
- 68. There was no other issue raised by the Session.

XV. CONSIDERATION AND ADOPTION OF THE REPORT OF THE SESSION (AGENDA ITEM 14)

- 69. The Report of the Session (EANET/IG 15/14) was considered and adopted.

XVI. CLOSING OF THE SESSION (AGENDA ITEM 15)

- 70. The Session expressed its deepest gratitude to the Government of Thailand for hosting the IG15 and for assistances and hospitality provided. The Session also expressed its gratitude to the Chairperson, Vice-Chairpersons, Rapporteur, participants, and representatives from international organizations, resource persons, etc. on their efforts and cooperation.
- 71. The Chairperson closed the Session appreciating the participants, the Secretariat and the NC for their contributions.

Annex 1

LIST OF PARTICIPANTS

Participating Countries

Cambodia

Mr. Heng Nareth
Director
Department of Pollution Control
Ministry of Environment

Mr. Lin Jun
Director
Division of Environmental Quality Monitoring
Department of Environmental Monitoring
Ministry of Environmental Protection

Ms. Dong Yao
Section Chief, Division of Asian Affairs
Department of International Cooperation
Ministry of Environmental Protection

Mr. Thiv Sophearith
Chief of Office
Department of Pollution Control
Ministry of Environment

Mr. Peng Bin
Director
Division of China-ASEAN Cooperation
China-ASEAN Environmental Cooperation
Center

China

Mr. Wu Jiyou
Deputy Director General
Department of Environmental Monitoring
Ministry of Environmental Protection

Mr. Zheng Haohao
Senior Engineer
Division of Air Quality Monitoring
China National Environmental Monitoring
Center (CNEMC)

Dr. Xu Jun
Senior Research Scientist
Urban and Regional Atmospheric Environment
Division
Atmospheric Environment Institute
Chinese Research Academy of Environmental
Sciences

Japan

Mr. Hiroshi Fujita
Deputy Director
Air Environment Division
Environmental Management Bureau
Ministry of the Environment

Indonesia

Ms. Emma Rachmawaty
Assistant Deputy Minister for Mitigation and
Atmospheric Function Preservation
Ministry of Environment Republic of Indonesia

Mr. Akira Yamada
Researcher
Global Environment Division
Ministry of Foreign Affairs

Ms. Sabitah Irwani
Staff of Assistant Deputy Ministry for
Mitigation and Atmospheric Function
Preservation
Ministry of Environment Republic of Indonesia

Prof. Yukari Takamura
Professor
Graduate School of Environmental Studies
Nagoya University

Mr. Indra Sanada Sipayung
Head of Section
Directorate of Treaties on Economic and
Socio-Cultural Affairs
Ministry of Foreign Affairs

Lao PDR

Mr. Virasack Chundara
Natural Resources and Environment Institute
Ministry of Natural Resources and Environment

Ms. Setouvanh Phanthavongsa
Acting Director
Environment Quality Monitoring Center
(EQMC)
Natural Resources and Environment Institute
Ministry of Natural Resources and Environment
(MONRE)

Myanmar

Ms. Ye Ye Nyein
Director
Lower Myanmar Division
Department of Meteorology and Hydrology

Malaysia

Mr. Wandī Yadzīd Hājī Yaakob
Principal Assistant Director
Air Division
Department of Environment
Ministry of Natural Resources and Environment

Ms. Nwe Marlar Aung
Deputy Superintendent
Water Quality Division
Department of Meteorology and Hydrology
Ministry of Transport

Philippines

Prof. Nik Muhamad bin Nik Ab. Majid
Principal Research Fellow
Institute of Tropical Forest and Forest Product
Universiti Putra Malaysia

Atty. Juan Miguel T. Cuna
Director
Environmental Management Bureau (EMB)
Department of Environment and Natural
Resources

Mongolia

Dr. Batbayar Jadamba
Director
Environmental Monitoring Department
National Agency for Meteorology and
Environmental Monitoring

Engr. Jean N. Rosete
Engineer IV - Chief Air Quality Management
Section
Environmental Quality Division
Environmental Management Bureau (EMB)
Department of Environment and Natural
Resources
Air Quality Management Training Center

Republic of Korea

Ms. Byeon Mun Kyeong
Team Leader
Inspection and Analysis Division
Metropolitan Air Quality Management Office
Ministry of Environment

Ms. Jongjit Niranthamteekul
Director
Air Quality and Noise Management Bureau
Pollution Control Department
Ministry of Natural Resources and Environment

Russia

Mr. Yury Peshkov
Head, Environmental Pollution Monitoring
Department
Federal Service for Hydrometeorology and
Environmental Monitoring (Roshydromet)

Dr. Patcharawadee Suwanathada
Director, Ambient Air Quality Division
Air Quality and Noise Management Bureau
Pollution Control Department (PCD)
Ministry of Natural Resources and Environment

Dr. Sergey Gromov
Head of Laboratory
Environmental Pollution Assessment
Department
Institute of Global Climate and Ecology (IGCE)
Roshydromet and RAS

Dr. Hathairatana Garivait
Director of Air Noise and Vibration Research
Group
Environmental Research and Training Center
(ERTC)
Department of Environmental Quality
Promotion
Ministry of Natural Resources and Environment

Thailand

Ms. Araya Nuntapotidech
Deputy Director General
Pollution Control Department
Ministry of Natural Resources and Environment

Mr. Suwan Nanthasarut
Director
Regional Environmental Office: Region 13
Ministry of Natural Resources and Environment

Mr. Pichaid Atipakya
Environmental, Professional Level
Ambient Air Quality Division
Air Quality and Noise Management Bureau
Pollution Control Department
Ministry of Natural Resources and Environment

Vietnam

Dr. Duong Hong Son
Director
Center for Environmental Research (CENRE)
Institute of Meteorology, Hydrology and
Environment (IMHEN)

Dr. Le Ngoc Cau
Deputy Director
Science, Training and International Cooperation
Institute of Meteorology, Hydrology and
Environment (IMHEN)

International Organizations

GIZ

Ms. Manlika Sukitpaneent
National Coordinator for Thailand
ASEAN-German Technical Cooperation
Clean Air for Smaller Cities in the ASEAN
Region
Cities, Environment and Transport Programme
Deutsche Gesellschaft für Internationale
Zusammenarbeit (GIZ) GmbH

RRC.AP

Dr. Jonathan Shaw
Deputy Director
Regional Resource Centre for Asia and the
Pacific (RRC.AP)
3rd Floor, Outreach Building
Asian Institute of Technology (AIT)

Dr. Ram Lal Verma
Programme Officer, ABC (Asia Secretariat)
Regional Resource Centre for Asia and the
Pacific (RRC.AP)
3rd Floor, Outreach Building
Asian Institute of Technology (AIT)

UNECE

Mr. Krzysztof Olendrzynski
Environmental Affairs Officer
Secretariat of the LRTAP Convention
Environment Division
United Nations Economic Commission for
Europe (UNECE)

Dr. Wanhua Yang
Legal Officer
United Nations Environment Programme
Regional Office for Asia and the Pacific

Mr. Henk Verbeek
Senior Administrative Officer
United Nations Environment Programme
Regional Office for Asia and the Pacific

UNEP

Mr. Mylvakanam Iyngararasan
Project Coordinator
United Nations Environment Programme

UNESCAP-ENEA (NEASPEC)

Dr. Kilaparti Ramakrishna
Director and Head
Subregional Office for East and North East Asia
UNESCAP

UNEP-DTIE (CCAC)

Ms. Sophie Bonnard
Science and Programme Officer
Climate and Clean Air Coalition Secretariat
United Nations Environment Programme

Resource Person

UNEP/ROAP

Dr. Young-woo Park
Regional Director and Representative for Asia
and the Pacific
United Nations Environment Programme
Regional Office for Asia and the Pacific

Prof. Katsunori Suzuki
Director/Professor
Environment Preservation Center
Kanazawa University

Consultant

Ms. Leong Chow Peng
Petaling Jaya, Selangor
Malaysia

Ms. Ruchirek Ratchaburi
Environmentalist, Practitioner Level
Ambient Air Quality Division
Air Quality and Noise Management Bureau
Pollution Control Department
Ministry of Natural Resources and Environment

Observers

Japan

Dr. Naoko Matsumoto
Fellow
Integrated Policies for Sustainable Societies
Area
Institute for Global Environmental Strategies
(IGES)

Mr. Phairat Ramnate
Environmentalist, Practitioner Level
Noise and Vibration Division
Air Quality and Noise Management Bureau
Pollution Control Department
Ministry of Natural Resources and Environment

Secretariat

PCD Secretariat

Dr. Asami Miyazaki
Assistant Professor
Faculty of Economics
Kumamoto Gakuen University

Ms. Kanokwan Suksod
Environmentalist, Professional Level
Ambient Air Quality Division
Air Quality and Noise Management Bureau
Pollution Control Department
Ministry of Natural Resources and Environment

Thailand

Ms. Nittaya Chaisa-ard
Environmentalist, Professional Level
Ambient Air Quality Division
Air Quality and Noise Management Bureau
Pollution Control Department
Ministry of Natural Resources and Environment

Ms. Kanokbhim Dejsatit
Environmentalist
Ambient Air Quality Division
Air Quality and Noise Management Bureau
Pollution Control Department
Ministry of Natural Resources and Environment

Secretariat for EANET

Regional Resource Centre for Asia and the
Pacific (RRC.AP)
Asian Institute of Technology (AIT)
Thailand

Network Center for EANET

Asia Center for Air Pollution Research (ACAP)
Japan

Dr. Supat Wangwongwatana
Coordinator, EANET Secretariat

Dr. Hajime Akimoto
Director General

Ms. Suwimol Wattanawiroon
Programme Officer, EANET Secretariat

Dr. Lee Suk Jo
Deputy Director General

Ms. Sumana Ratanasawetwad
Administrative Assistant, EANET Secretariat

Mr. Makoto Hayashi
Deputy Director General

Mr. Shiro Toda
Head
Planning and Training Department

Annex 2**DECISION 1/IG.15**

1. *Referring to* the DECISION 3/IG.2 by the Second Session of the Intergovernmental Meeting (IG2) on the EANET in October 2000 designating UNEP as the Secretariat for the EANET.
2. *Considering* the Review Report on the Future Arrangement of the Secretariat for the EANET (EANET/IG 15/9/1).
3. The Fifteenth Session of the Intergovernmental Meeting (IG15) on the EANET met in Chonburi, Thailand on 16-17 December 2013 decided on the future arrangement of the Secretariat for the EANET to,
 - i. Reconfirm the designation of UNEP as the Secretariat for the EANET under the guidance of the IG on the EANET and in line with the work programs approved by the IG.
 - ii. Select Option 1B (UNEP as the EANET Secretariat with some functions implemented through RRC.AP/AIT with the Coordinator at UN-P4 level) for the new arrangement of the Secretariat for the EANET and review this arrangement two years after its operationalization.
 - iii. Request UNEP to prepare a management scheme including a timetable of the transition period for the operationalization of Option 1B, and accordingly initiate the necessary arrangements to implement Option 1B including financial arrangement taking account of the request of the participating countries to reduce cost where possible, amendment of the Framework on the Establishment of the Secretariat of the Acid Deposition Monitoring Network in East Asia (EANET), and any other necessary arrangements for the Secretariat.
 - iv. Agree to hold an Extraordinary Session of the Intergovernmental Meeting (IG) on the EANET before the Sixteenth Session of the Intergovernmental Meeting (IG16) on the EANET to avoid any delay to make the decision of the new arrangement so that the EANET Secretariat function under Option 1B can be started as early as possible after the IG16.
 - v. Authorize the EANET Secretariat to utilize the savings at the EANET Secretariat to organize the Extraordinary Session of the IG.
 - vi. Extend the tenure of the current staffs of the EANET Secretariat for one more year without going through the ordinary recruitment process and review further extension at the Extraordinary Session of the IG.

- vii. Accept China's Proposal on Providing In-kind Support to the EANET Secretariat by sending a Senior Official to the EANET Secretariat.
-

Annex 3

Work Program and Budget of the EANET in 2014

I. WORK PROGRAM IN 2014

1. As stated in the MTP for the EANET (2011-2015), the objectives of the MTP in the five years are as follows:
 - Improvement of current acid deposition monitoring in terms of data quality, completeness of monitoring items, distribution of monitoring sites and data management;
 - Extended assessment of the state of acid deposition including other relevant air pollutants in East Asia based on the analysis of the EANET monitoring data;
 - Development of scientific researches on the atmospheric environment in East Asia;
 - Common understanding on environmental, social and economic issues of atmospheric pollution in East Asia through the establishment of an epistemic community and promotion of public awareness;
 - Increasing transparency of the EANET;
 - Strengthening policy relevance of the EANET activities;
 - Providing policy advice and information based upon sound science and assessment;
 - Enhance coordination in the dissemination of knowledge and information, training and public awareness activities;
 - Strengthening technology support and capacity in line with country needs; and
 - Enhancement of cooperative efforts among participating countries and relevant organizations.
2. To achieve the above objectives, activities covering all the EANET activities are identified for implementation in the 5-year period, i.e. 2011-2015, by the participating countries, the Scientific Advisory Committee (SAC), the Secretariat, the NC and other relevant bodies of the EANET, under the following seven (7) categories:
 - (i) Promotion of acid deposition monitoring including QA/QC activities;
 - (ii) Improvement of compilation, verification, evaluation, storage & provision of data;
 - (iii) Enhancement of data analysis and assessment;
 - (iv) Implementation of technical support and capacity building activities;
 - (v) Promotion of research activities related to acid deposition problems;
 - (vi) Promotion of public awareness; and
 - (vii) Further development of the EANET.

3. In the year 2014, there are important activities to be implemented as follows:

- Continuation of monitoring of all the EANET priority chemical species, improvement in monitoring methodologies and better instrument maintenance;
- Publishing the EANET technical manual *for air concentration monitoring*¹, and review/development of regional and national SOPs and other technical manuals/guidelines;
- Commencement of the activities for preparation of the Third Periodic Report on the State of Acid Deposition in East Asia (PRSAD3);
- Continuation of research activities to develop appropriate monitoring methodologies for the East Asian region including methodologies for monitoring of air concentrations, to study present status and effects of acid deposition and other priority chemical species, to study on models to assess and analyze the trend of national and regional acid deposition and other air pollutants in East Asia, etc.;
- Promotion of emission inventories through workshops, etc.;
- Development of report with recommendations on future development of the EANET, including the future expansion of the scope of the EANET and institutional arrangement of the EANET Secretariat;
- Review the implementation of the Revised Guidelines on Administrative and Financial Management for the Secretariat and the Network Center approved at the IG14;
- Consideration on development of the draft next MTP for the EANET (2016-2020)
- Development of the draft Report of the Review on the State of Air Pollution in East Asia;
- Promotion of public awareness through publications, workshops, webpage, a network of experts, etc.;
- Promotion of capacity building for personnel of the participating countries including training courses, capacity building workshops, and fellowships;
- Review the implementation of the “Instrument for Strengthening the Acid Deposition Monitoring Network in East Asia (EANET)”;
- Mobilization of resource and external funding, including the strategies and action plan in obtaining external funding from international organizations and other funding agencies.

I-1. Activities of the Secretariat, the NC and the Participating Countries of the EANET

4. In principle, activities of the Secretariat, the NC and the participating countries of the EANET in 2014 will be in line with the MTP for the EANET (2011-2015), as presented below.

¹ “Air concentration monitoring” means the atmospheric concentration monitoring of chemical species related to acid deposition.

Secretariat

5. The Secretariat will make necessary arrangement for the important meetings of the EANET in 2014 which include: Session of the Intergovernmental Meeting (IG), Session of the SAC, and Session of the Working Group on Future Development of the EANET (WGFD), in cooperation with the NC and the participating countries. Such arrangement includes preparation and coordination of meeting documents, communication with the hosting countries, reporting, publication of proceedings, logistic services such as preparation for conference facilities, transportation, etc.
6. The Secretariat will make administrative and financial arrangements for the EANET, such as regular communication with the National Focal Points (NFPs); communicating, with the donor agencies, the participating countries and the Asia Center for Air Pollution Research (ACAP) for the NC activities, etc.
7. The Secretariat in collaboration with the NC will prepare the progress report and financial report in 2013, the report on the review of the performance of the Secretariat and the NC (2012-2013), and the preliminary draft next MTP for the EANET (2016-2020) for the consideration of the participating countries.
8. The Setariat, in collaboration with United Nation Environment Programme (UNEP) and Asian Institute of Technology (AIT), will continue to review its institutional arrangement taking into account of the new Memorandum of Understanding (MoU) between UNEP and AIT in 2011 and the guidance given by the IG15.
9. The Secretariat will make efforts to mobilize resources from available sources for the EANET activities as highlighted in the MTP for the EANET (2011-2015) and develop the strategies and action plan in obtaining external funding from international organizations and other funding agencies, in coordination with the NC and the participating countries.
10. The Secretariat will promote further communication and cooperation with relevant organizations and programs relating to acid deposition such as the 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), International Co-operative Programme on Assessment and Monitoring of Air Pollution Effects on Forests (ICP-Forest) and their Centers (EMEP/CCC, IPC-Forest/PCC); World Meteorological Organization Global Atmospheric Watch Programme (WMO-GAW); 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); Clean Air Asia; National Atmospheric Deposition Program (NADP); Climate and Clean Air Coalition to Reduce Short-Lived Climate Pollutants (SLCPs) Initiative (CCAC), Atmospheric Brown Cloud (ABC) Project; Asian Co-benefits Partnership (ACP), Association of Southeast Asian Nations (ASEAN), various

international organizations, etc.

11. Subject to availability of funds, the Secretariat will promote public awareness in the participating countries including youth activities and participations to support environmental activities on acid deposition. The Secretariat will coordinate with the NC and the participating countries in developing materials for public awareness, including bi-annual issues of the EANET newsletter.
12. Subject to availability of funds, the Secretariat in coordination with the NC and the participating countries will carry out capacity building activities for the participating countries.

Network Center (NC)

13. Asia Center for Air pollution Research (ACAP) will continue to implement the NC activities in line with the Work Program in 2014 to promote the EANET activities in cooperation with the participating countries and the Secretariat.

Administrative issues and international cooperation

14. In collaboration with the Secretariat, the NC will also make necessary arrangement for the important meetings of the EANET in 2014 such as the Session of the IG, Session of the SAC, and Session of the WGFD in cooperation with the participating countries.
15. The NC also will make administrative and financial arrangements for the EANET such as regular communication with the SAC members; communicating, the participating countries and the Secretariat, etc. and prepare the progress report and financial report in 2014 for submission to the participating countries.
16. The NC will also make efforts to mobilize resources from available sources as highlighted in the MTP for the EANET (2011-2015), for the EANET activities, in coordination with the Secretariat and the participating countries.
17. In collaboration with the Secretariat, the NC will also develop the Report on the Review of the Performance of the Secretariat and the NC (2012-2013), and the preliminary draft next MTP for the EANET (2016-2020) for the consideration of the participating countries.
18. The NC will also promote further communication and cooperation with relevant organizations and programs relating to acid deposition and air pollution, such as the UNECE CLRTAP and its programmes including the EMEP, ICP-Forest and their Centers (EMEP/CCC, IPC-Forest/PCC); WMO-GAW; Malé Declaration; Joint Forum; Clean Air Asia; NADP; CCAC; ABC Project; ACP; ASEAN, etc.

Acid deposition monitoring including quality assurance and quality control (QA/QC) activities

19. The NC will promote following activities with the participating countries, Task Forces/Expert Groups (TFs/EGs), etc.:
- To support monitoring of all EANET priority chemical species and improvement in monitoring methodologies and better instrument maintenance;
 - To make effort to increase the number of regional monitoring sites in collaboration with the participating countries;
 - To prepare draft revised QA/QC manual for the EANET monitoring;
 - To prepare guidelines, technical manuals and documents, as necessary; and
 - To prepare strategy papers for guidance on future direction of the EANET monitoring, as necessary.

20. The NC in cooperation with the National Centers and the National QA/QC Managers of the participating countries will implement the following inter-laboratory comparison projects.

(Inter-laboratory comparison surveys in 2014)

- The NC will distribute the samples for the inter-laboratory comparison surveys 2014 (the 17th project on wet deposition, the 10th project on dry deposition (filter-pack method), the 16th project on soil and the 15th project on artificial surface water) in October/November 2014.

(Inter-laboratory comparison surveys in 2013)

- The analytical results of the inter-laboratory comparison project 2012 (the 16th 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) by the participating laboratories should be submitted to the NC not later than 28 February 2014 as in the previous years for submission to the results to the relevant the EANET meetings. The NC will prepare Reports on the Inter-laboratory comparison surveys in 2013 based on the submitted data for review at the Fourteenth Session of the Scientific Advisory Committee (SAC14).

(Inter-laboratory Comparison Surveys in 2012)

- The NC will publish the Reports on the Inter-laboratory comparison surveys in 2012 by the beginning of 2014 based on the review at the SAC13 in 2013.

21. The NC will continue to provide technical advice for the participating countries in developing national QA/QC programs including preparing standard operating procedures for all the monitoring activities, etc.
22. The NC will continue to participate in the international inter-laboratory comparison projects coordinated by the United States Geological Survey (USGS), WMO, EMEP and International Cooperative Programme on Assessment and Monitoring of Rivers and Lakes (ICP Waters).

Compilation, verification, evaluation, storage, analysis and provision of the data

23. The NC will communicate with the National Centers of the participating countries to ensure timely submission of data, and compile, verify, evaluate, store, analyze and provide the monitoring data obtained in 2013.
24. The NC will prepare the Draft Data Report 2013, based on the data submitted by the participating countries.
25. The NC will disseminate the EANET data in accordance with the “Procedures on Data and Information Disclosure for the EANET” (*Annex 4* of the “Revised Guidelines on Administrative and Financial Management for the Secretariat and the Network Center”). Relevant scientific and technical information will be also disseminated to the participating countries, organizations and individuals through the EANET website or using other means of communication as well as at regional/international meetings. Periodic updating and improvement of the EANET website will be undertaken. The NC will further promote easy access to monitoring data for data users.

Enhancement of the data analysis and assessment

26. The NC will implement following activities:
 - To support activities to assess the state of acid deposition using trend analysis, indicators, numerical models etc. by the Task Force and the SAC including review of the status of air pollution in East Asia;
 - To start preparation of the PRSAD3 based on the discussion to establish Drafting Committee (DC) for the PRSAD3 at the SAC14 in 2014;
 - To support to evaluate the monitoring data to assess impact on ecosystems by the Task Force on Soil and Vegetation Monitoring (TFSVM); and
 - To support the TFSVM to identify areas which have potential for damage by acid deposition and other priority chemical species.

Provision of technical assistance to the participating countries

27. The NC will organize the Fifteenth Senior Technical Managers’ Meeting (STM15) in 2014 in summer/autumn 2015 in a participating country in collaboration with the Secretariat. The major objectives of this meeting are to exchange information between the NC and the National Center of each participating country, to disseminate latest scientific and technical information, to review the EANET activities of the participating countries, to clarify some important technical issues and to identify necessary activities to be carried out by the participating countries.
28. The NC will continue to support to the IG, the SAC, the WGFD and the TFs/EGs established

under the SAC as their Secretariat. Following meetings will be held in 2014 within the allocated budget:

- Task Force on Research Coordination (TFRC) including the Reviewing Committee on the Status of Air Pollution in East Asia (third and fourth meetings); and
- TFSVM.

29. The NC will implement the following training activities in 2014:

- Conduct a survey of national training activities in the participating countries in 2013;
- Continue developing training materials, technical documents for monitoring on wet deposition, dry deposition, soil and vegetation and inland aquatic environment;
- Assist national training activities by providing technical materials, dispatch technical experts;
- Organize individual training at the ACAP (a few trainees from participating countries); and

30. The NC will utilize training programs and other technical assistance activities implemented by donor agencies to provide training on acid deposition monitoring to member countries if such training programs are available.

31. Depending on the availability of the resources and situation of operation/monitoring in the participating countries, the NC will continue to provide assistance and technical support to individual participating countries. In this connection, the NC will coordinate with relevant regional/international initiatives and funding agencies to maximize the use of available funds.

32. Subject to availability of funds, the NC will continue to dispatch technical missions to participating countries to exchange information and experiences with National Centers, National QA/QC managers and local experts, and to provide technical advice and disseminate the latest technical information. Participating countries are encouraged to organize in-country technical workshops during these NC technical missions.

Implementation of research activities

33. Subject to availability of funds, the NC will continue to implement the EANET Research Fellowship Program in 2014. The NC will invite two scientists from the participating countries to conduct the fellowship research at the ACAP for about two months.

34. The NC will continue research activities in 2014 to improve monitoring methodologies with particular emphasis on dry deposition and soil/vegetation monitoring and conduct the following research activities depending on availability of necessary financial resources.

- The NC will continue to conduct 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. As the project supported by Asia-Pacific Network for Global Change Research (APN, ARCP2012-18NMY-Sase), dynamics of sulfur derived from atmospheric deposition will be studied in the forest catchments in the countries above in 2014;

- Studies on acid deposition including improvement of methodologies for measurement of air concentrations in East Asia;
- Studies on review of the state of air pollution in East Asia; and
- Promotion of emission inventory and modeling research activities, etc.

Public awareness activities

35. The NC, in coordination with the Secretariat and the participating countries will undertake the following activities in 2014 to promote public awareness on acid deposition problems:

- Promotion of public awareness in the participating countries to support environmental activities on acid deposition and air pollution issues;
- Promotion of public awareness to multi-layer stakeholders through the joint project for supporting the environmental education activities on acid deposition, etc. if necessary fund is available;
- Development of printed materials (brochures, etc.) related to acid deposition issues for public awareness;
- Regular upgrading and maintenance of the EANET web page including issuing of the documents of the EANET meetings and updating the e-Learning course on acid deposition and providing other educational materials for internet users;
- Uploading the EANET meeting documents on the EANET website for EANET relevant persons in cooperation with the Secretariat in accordance with the “Criteria for uploading priority documents to the EANET website” (*Annex 5* of the “Revised Guidelines on Administrative and Financial Management for the Secretariat and the Network Center” for the EANET members in the participating countries.
- Biannual issue of the EANET Newsletter in cooperation with the Secretariat;
- Supporting activities in developing public awareness materials for policy makers as appropriate; and
- Creation of a network of experts concerned with atmospheric environment issues within East Asia.

Future development of the EANET

36. The NC will support activities for consideration on the future development and expansion of the

scope of the EANET.

Other tasks

37. Subject to availability of funds, the NC will maintain close communication and coordination with other regional environmental monitoring networks, international/bilateral organizations and other relevant initiatives and exchange information related to scientific and technical issues. Closer collaboration will be promoted with the Task Force on Hemispheric Transport of Air Pollution (TF HTAP) on hemispheric transport issues and with WMO-GAW on global precipitation chemistry assessment.
38. In cooperation with the Secretariat, the NC will implement other tasks requested by the IG.

Participating Countries of the EANET

39. The participating countries will continue to revise their national monitoring plans where appropriate based on the experiences in the previous years and comments from the sessions of the SAC. The latest national monitoring plan (NMP) shall be submitted to the NC by the end of July 2014 in accordance with the revised format for discussion at the STM15 in 2014.
40. The participating countries will continue the acid deposition monitoring activities based on their national monitoring plans with guidance from the NC. The National Centers of the participating countries shall collect, check and submit their monitoring data in 2013 to the NC through the NFPs before the end of June 2014.
41. The participating countries shall continue to implement the following activities in collaboration with the NC:
 - improving implementation of all required monitoring items (including ozone and particulate matter (PM)) with necessary data completeness and accuracy;
 - making best effort to establish new monitoring site(s) and ensure appropriate distribution of monitoring sites within the country;
 - developing a set of SOPs for operational monitoring;
 - implementation of dry deposition (air concentration) monitoring at their sites; and
 - consideration on application of less expensive monitoring methods if resources are limited.
42. The National QA/QC Managers and the National Centers shall continue to implement QA/QC activities and communicate with the national laboratories on data assurance. All national laboratories are encouraged to participate in the Inter-laboratory comparison surveys of the EANET. The results of the Inter-laboratory comparison surveys in 2013 should be submitted to the NC by the end of February 2014.

43. Any changes and/or nominations of the NFPs, the SAC members, the National QA/QC Managers, and the National Centers in the participating countries should be sent to the Secretariat in a written form.

I-2. Sessions of IG, SAC and WGFD in 2014

Session of the IG in 2014: Sixteenth Session of the Intergovernmental Meeting (IG16) on the EANET

44. The IG16 will be held in winter 2014. The participating countries willing to host the Session are invited to express their intention to the Secretariat. The Secretariat will discuss the date, venue and necessary arrangements of the IG16 with the hosting country.

Session of the WGFD in 2014: Thirteenth Session of the Working Group on Future Development (WGFD13) of the EANET

45. The WGFD13 will be held in autumn 2014 approximately a month and a half before the IG16 to review and discuss the Performance of the Secretariat and the NC (2012-2013), the strategies and action plan in obtaining external funding from international organizations and other funding agencies, the draft Report of the Review on the Status of Air Pollution in East Asia, the issues of the future development of the EANET, including the institutional arrangement of the EANET Secretariat and the future expansion of the scope of the EANET, the preliminary draft next MTP for the EANET (2016-2020), the possible High-Level Segment during the IG in 2015, and other tasks requested by the IG. The outcomes of the WGFD13 will be reported and considered at the IG15. The participating countries willing to host the WGFD13 are invited to express their intention to the Secretariat.

Session of the SAC in 2014: Fourteenth Session of the Scientific Advisory Committee (SAC14) on the EANET

46. The SAC14 will be held in autumn 2014 approximately a month before the WGFD13 to discuss scientific and technical issues of the EANET such as the draft Report of the Review on the Status of Air Pollution in East Asia, the issues of the future development of the EANET including the future expansion of the scope of the EANET, the preliminary draft next MTP for the EANET (2016-2020) and development of the PRSAD3. The participating countries willing to host the SAC14 are invited to express their intention to the Secretariat.

II. PROPOSED BUDGET IN 2014

II-1. Secretariat

47. The proposed total Secretariat budget in 2014 is US\$ 479,693 which is in line with the MTP for

the EANET (2011-2015) 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. It is itemized in the following categories: personnel cost; rental of premises; and operating costs, including reporting cost, development of newsletters, office supplies, communication, travel of staff, meetings, fellowship program at the NC, overhead, etc. The details are provided in Table 1 of Annex 1.

48. Based on the flat amount for a period of two years (2014-2015) as indicated in the Revised Guidelines on Administrative and Financial Management for the Secretariat and the Network Center approved at the IG14 in November 2012, it is expected that the total voluntary financial contribution from the participating countries in 2014 will be US\$ 479,693 for the Secretariat budget. The estimated amount of voluntary financial contributions for each participating country based on burden sharing as correspondent to the latest UN scale of assessment are presented in Table 2 of Annex 1.
49. The participating countries are encouraged to make voluntary financial contributions to the Secretariat budget in 2014 as early in the year as possible but not later than 30 June 2014 by sending their contributions to the bank account of Regional Resource Centre for Asia and the Pacific at Asian Institute of Technology (RRC.AP at AIT) specified in the request letter for voluntary financial contribution. Additional contributions both in-kind and in-cash are also welcomed.
50. The trend of the Secretariat regular budget and expenditures for 2008-2012 is presented in Reference Table 1 of Annex 2 of this document.

II-2. Network Center

51. The proposed NC budget for core and additional budget activities is described in Table 3 of Annex 1. The budget is estimated in line with the MTP for the EANET (2011-2015) 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.
52. The proposed annual budget of the NC in 2014 is estimated to be approximately US\$ 1,147,000 including personnel and administrative costs consist of US\$ 396,000 required for the core budget activities, US\$ 579,000 required for the additional budget activities and US\$ 172,000 for rental fee of the building. The amount of the core budget is the same as the average budget of two years (2014 and 2015) of the MTP for the EANET because financial contribution from the participating countries to the NC core budget is expected. However in case of additional budget, it will be rather difficult to get research fund in Japan and so on, draft total amount of additional budget is estimated US\$ 136,000 smaller amount than the MTP for the EANET (2011-2015). Table 4 of Annex 1 shows the estimated budget for 2014 compared to the estimated budget in 2013 according to each activity.

53. The estimated revenue for the NC in 2014 is US\$ 1,147,000 comprising of US\$ 396,000 for core budget activities, US\$ 579,000 for additional budget activities and US\$ 172,000 for support of the NC activities from Niigata Prefecture as shown in Table 5 of Annex 1. Based on the flat amount for a period of two years (2014-2015) as indicated in the Revised Guidelines on Administrative and Financial Management for the Secretariat and the Network Center approved at the IG14 in November 2012, it is expected that the total voluntary financial contribution from the participating countries in 2014 will be US\$ 396,000 for the NC core budget. The estimated amount of voluntary financial contributions for each participating country based on burden sharing as correspondent to the latest UN scale of assessment is presented in Table 6 of Annex 1. Participating countries are also encouraged to make in-kind or cash contributions, in addition to the above to support specific core budget activities of the NC.
54. The participating countries are encouraged to make voluntary financial contributions to the NC core budget by sending their contributions directly to the bank account of Japan Environmental Sanitation Center (JESC).
55. The revenue on the NC additional budget in 2014 is expected to be contributed by the Ministry of Environment (MOE), Japan, Niigata Prefecture, Niigata City and other research funds. The participating countries are also encouraged to support the additional budget activities of the NC by providing cash and/or in-kind contributions.
56. The balance between estimated revenue and budget of the NC is also shown in Table 7 of Annex 1.
57. The trend of the NC core budget and its expenditures for 2008-2012 is presented in Reference Table 2 of Annex 2 of this document.