REPORT ON THE PROGRESS OF THE ACID DEPOSITION MONITORING NETWORK IN EAST ASIA (EANET) SINCE THE TWENTIETH SESSION OF THE SCIENTIFIC ADVISORY COMMITTEE (SAC20) ON THE EANET

I. INTRODUCTION

1. This document is prepared to report on the progress of the Acid Deposition Monitoring Network in East Asia (EANET) activities since the Twentieth Session of the Scientific Advisory Committee (SAC20) on the EANET held virtually on 23-24 September 2020.

2. In general, the activities of the EANET implemented during this period were guided by the Medium-Term Plan (MTP) for the EANET (2016-2020) and MTP (2021-2025). The activities were also in accordance with the Work Programme and Budget of the EANET in 2020 and 2021.

3. Report on the Progress of the Acid Deposition Monitoring Network in East Asia (EANET) since the Twentieth Session of the Scientific Advisory Committee (SAC20) on the EANET is presented in the Attachment.

II. ACTIONS REQUIRED

4. The SAC21 is invited to review the Report on the Progress of the Acid Deposition Monitoring Network in East Asia (EANET) since the Twentieth Session of the Scientific Advisory Committee (SAC20) on the EANET and may wish to consider, discuss, provide guidance, and make comments and suggestions, and approve as appropriate.

Attachment

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I. INTRODUCTION

1. This document provides the progress of the Acid Deposition Monitoring Network in East Asia (EANET) activities since the Twentieth Session of the Scientific Advisory Committee (SAC20) on the EANET held virtually on 23-24 September 2020. In general, the activities of the EANET implemented during this period were guided by the Medium-Term Plan (MTP) for the EANET (2016-2020) and MTP (2021-2025), and in accordance with the Work Programme and Budget of the EANET in 2020 and 2021.

II. IMPLEMENTED/ ONGOING EANET ACTIVITIES SINCE SAC20

2. In November 2020, IG22 approved two important documents: the MTP for the EANET (2021-2025) and Work Programme and Budget in 2021. In line with that, the implementation of activities in this reporting period covers the remaining activities implemented in 2020 (from September to December 2020) under MTP (2016-2020) and the implementation of activities in 2021 under the MTP (2021-2025). Since the SAC21 Meeting is organized in October 2021, the reporting cycle for 2021 includes implemented activities up to September 2021 and ongoing activities that will continue until December 2021. In 2022, the progress report will only include the implementation of activities under MTP (2021-2025).

3. The IG22 also approved the implementation of selected non-core activities in 2021 as listed in the Work Programme and Budget in 2021, funded from the non-core budget. Therefore, this progress report also includes the implementation status of non-core activities in 2021. Once The IG approves project Fund and Project Guidelines, the reporting of the implementation of the non-core activities (project activities) may refer to the said document.

4. In this section II, the progress of EANET since SAC21 will be divided into two sub-sections, among others:

    1. <u>The Remaining implemented core activities in 2020</u>: from September- December 2020, as part of Work Programme and Budget in 2020 and MTP (2016-2020);
    2. <u>Implemented/ Ongoing Activities in 2021</u>: as part of Work Programme and Budget in 2021 and MTP (2021-2025), which includes:
        1.Implemented/ Ongoing Activities in 2021;
        2.Implemented/ Ongoing Non-Core Activities in 2021.

II-1 THE REMAINING IMPLEMENTED CORE ACTIVITIES IN 2020 (*September-December 2020, as part of MTP (2016-2020)*)

Objective 1: Monitoring of acid deposition- Conduct acid deposition monitoring including related chemical substances; review for data quality and completeness; and data management

Table 2.1.1 Implemented Core Activities in 2020 (Sept-Dec) under Objective 1

By	Activity	Accomplished Output (AO) *(by Dec 2020)*	Implementation Status *(by Dec 2020)*	Remarks *(Lessons learned, challenges)*
NC (ARD)	(1) Continuation and improvement of EANET monitoring	1. More comprehensive monitoring in accordance with the technical documents	1. The 1st draft of the revised Technical Manuals for Air Concentration Monitoring and Dry Deposition Flux (EGRTM) was developed	The final draft of revised Technical Manuals will be prepared in 2022.
NC (ARD)	(2) Development/ revision of guidelines, technical manuals, and strategy paper	1. Update strategy papers prepared by the respective task forces under SAC 2. Revision of Technical Manuals	1. Strategy Paper on Future Direction of Monitoring for Dry Deposition of the EANET (2021-2025) was adopted by SAC20 2. The 1st meeting on the Expert Group on revision Technical Manuals for Air Concentration Monitoring and Dry Deposition Flux (EGRTM) was held in April 2020	1. The final draft of revised Technical Manuals will be prepared in 2022. 2. The 2nd meeting of EGRTM will be held in May 2022.
NC (DMD)	(3) Implementation of QA/QC activities	Increase in the number of participating laboratories and number (percentage) of laboratories that all of the data are within the data quality objectives (DQOs) in the Annual Inter-laboratory Comparison Project	The ILCP 2020 was submitted at the end of February 2021.	The ILCP Report 2020 will be published in December 2021.

		(ILCP) to identify analytical problems.		
NC (DMD)	(4) Management of data and maintenance of the database	1. A complete, updated dataset available within the next year. 2. The annual publication of the EANET Data Report.	1. Regular checking of the data and the development 2. Preparation of 2019 dataset 3. Arrangement of new dataset downloadable at EANET Web site	1. 2019 dataset has been uploaded to the EANET website. 2. Adoption of Data Report by the SAC.
SEC NC (PTD)	(5) Upgrading and operation of the EANET website	1. Provision of regular update of EANET website from September to December 2020 on monitoring data, news, meeting reports, publications, static content information.	1. Updated monitoring data of EANET: https://monitoring.eanet.asia/document/public/index 2. Regular news updates on the EANET website from Sept-Dec 2021 (2-3 news per month) available at https://www.eanet.asia/news/ 3. Static content information continued to be updated, such as events, resources, publication, classified document section,	Regular updates of the EANET website and introduction have increased visitors (See Annex 4. EANET Digital Data Report 2020-2021).
		2. Upgraded operation of EANET website: installation of visitor counter, updated plugins, Mailchimp update of EANET website (See Annex 4. EANET Digital Data Report)	1. Since 2020, the visitor counter for the EANET website has been applied by using Google Analytics. 2. Since 2020, EANET has introduced a bi-monthly update of email blasts (MailChimp) to inform the audience of the EANET website on the updated content.	EANET Digital Data Report aims to measure the performance of EANET website.
NC (DMD)	(6) Upgrading of the data management system in the NC	Upgraded data management system in NC to enable easy access by approved users	Data management and data disclosure system has been operated on the website without any problems since 2019.	1. Maintaining the system 2. Provision of response to users

NC (ARD)	(7) Promotion of capacity building and technical support of participating countries	1. Organizing EANET individual training course. 2. Collecting information and Technical support for EANET member countries. 3. Technical mission to EANET countries. (Online meeting) 4. Meeting on PM2.5 countermeasures in Thailand Communication with participating countries and relevant organizations.	1. EANET individual training course was held online in November 2020. 2. The NC collected the Report of troubles and difficulties in EANET member countries and provided technical supports. 3. The NC dispatched Technical missions to the Philippines and Thailand. 4. A meeting on PM2.5 countermeasures, including source analysis and modeling, was held in Thailand. The NC also attended the meetings of APCAP, UNECE CLRTAP, and its program, including EMEP, etc.	These activities will be continued in 2021.

Objective 2: Strengthening current monitoring - Strengthening current monitoring activities through research, capacity building, and the increasing number of monitoring sites to generate additional data.

Table 2.1.2. Implemented Core Activities in 2020 (Sept-Dec) under Objective 2

By	**Activity**	**Accomplished Output (AO)** *(by Dec 2020)*	**Implementation Status** *(by Dec 2020)*	**Remarks** *(Lessons learned, challenges)*
NC(ARD)	(8) Promotion of the monitoring of ozone and PM2.5	Increase in the number of ozone and PM2.5 monitoring sites	As of 2020, there are 26 sites in 8 countries monitoring ozone and 41 sites in 12 countries monitoring PM2.5.	The NC is discussing the registration of existing air monitoring sites as EANET sites.

NC(ARD)	(9) Capacity building activities for ozone and PM2.5 monitoring and meteorological parameter	Technical guidance of ozone and PM2.5 monitoring	The NC provided technical guidance of calibration on ozone monitors and troubleshooting of PM2.5 monitors.	There is a limitation of support because of COVID-19. All activities are implemented online and through email communications

Objective 3: Promotion of Activities Other than Monitoring- promotion of information exchange on clean air technologies, emission inventories, and research activities.

Table 2.1.3. Implemented Core Activities in 2020 (Sept-Dec) under Objective 6

By	**Activity**	**Accomplished Output (AO)** *(by Dec 2020)*	**Implementation Status** *(by Dec 2020)*	**Remarks** *(Lessons learned, challenges)*
NC(PTD)	(10) Information exchange on clean air technologies / regional impact assessment through workshops, seminars, etc.	None	The planned session on regional impact assessment in Joint Forum/APCAP was canceled due to COVID-19.	The alternative action can be considered for workshops/seminars soon.
NC(DMD)	(11) Research and technical cooperation on emission inventory	Currently available emission inventories, manuals, and guidelines were collected as references.	Information of currently available emission inventories mainly from bottom-up approaches as well as manuals and guidelines were surveyed.	The information can be utilized for the planning of emission inventory training workshops in the next MTP.
NC (EIRD)	(12) Research activities on regional impact assessment and EC and OC	None	Discussion on the preparation of the manuscript on regional impact assessment using the critical load approach (with the scientist from	The manuscript on regional impact assessment has almost been prepared (to be submitted within 2021).

			Forestry and Forest Products Research Institute, Japan)	
NC(ARD)	(13) Studies on the applicable measurement methodologies	1. Long-term monitoring of EC/OC in particulate matter and precipitation. 2. Monitoring of PM2.5 chemical components and source analysis	1. Monitoring of EC/OC in particulate matter and precipitation was conducted in Japan and Thailand. 2. Monitoring of PM2.5 chemical components was conducted in Japan and Thailand. Source analysis was implemented by using observational data.	These activities will be continued in 2021.
NC(PTD) SEC	(14) Fellowship Research Programme	Due to COVID-19 EANET Fellowship in 2020 for young researchers was being postponed to the year 2021	1. The Secretariat developed SSFA with the NC to provide US$ 50,000 to fund four research fellows in 2020. 2. The NC shared the announcement of the Research Fellowship in 2020 to NFPS on 10 January 2020. 3. There were five applicants from PCs, and after the selection committee's review, four applicants were selected as EANET Fellowship researchers. Two researchers are from China, and others are from Mongolia and Russia. 4. Because of the COVID-19 pandemic, it was challenging to enter Japan to conduct the program in person, and NC proposed changing it into virtual. 5. For virtual training, four applicants	Implementation of fellowship in 2020 faced a challenge due to COVID19.

			expressed their intention to postpone the training to 2021.	
NC(EIRD)	(15) Studies on the effects of acid deposition and other priority chemical species	Studies on the effects of acid deposition and other priority chemical species	1. Continuing the field surveys at the Kajikawa catchment site (KJK) 2. The final revision of the manuscript on the long-term data assessment of KJK for publication in an international journal 3. Preparation of the manuscript on the sulfur accumulation in the soil of Lake Ijira catchment site (IJR) for publication in an international journal	1. The paper on KJK was published in Atmospheric Environment in January 2021. 2. The paper on IJR was submitted to an international journal in January 2021.
NC(DMD)	(16) Promotion of studies on models	1. The special issue titled Regional assessment of air pollution and climate change over East Asia and Southeast Asia: results from IMCS-Asia Phase III was established. The number of published scientific papers is 26. 2. Four working groups for MICS-Asia Phase IV have been established: Air quality modeling, Air quality and climate modeling, Emission inventory, and Observation.	1. MICS-Asia Phase III Workshop was held on October 2020 in virtual. The outcomes and remaining issues of MICS-Asia Phase III were summarized, and next steps such as priorities of targets including research themes and necessary proceedings works were discussed. 2. MICS-Asia Phase IV Kick-Off Workshop was held on March 2021 in virtual. (The workshop was held in 2021, but the activity was based on WPB in 2020. This was accepted because of the period of the fiscal year of Japan.) Major targets of MICS-Asia Phase IV were decided, and working groups mainly	1. The model inter-comparison workshop provides opportunities for sharing information and current status and problems of air quality modeling in East Asia. 2. Research papers and outputs of MICS-Asia provide a scientific base to assess the status of the atmospheric environment in East Asia.

			conducted actual work were established. Furthermore, recent research progress was presented and discussed.	
NC(PTD)	(17) Publication of the EANET Science Bulletin	None	None	None

Objective 4: Providing Policy Relevant Information- Develop policy-relevant reports and publications based on analysis of the monitoring data collected.

Table 2.1.4. Implemented Core Activities in 2020 (Sept-Dec) under Objective 4

By	**Activity**	**Accomplished Output (AO)** *(by Dec 2020)*	**Implementation Status** *(by Dec 2020)*	**Remarks** *(Lessons learned, challenges)*
NC(DMD~~)~~	(18) Periodic assessment of the state of acid deposition	1. Assessments of the EANET data by the Task Forces and SAC, including assessment of current status, trends, and use of model outputs.	1. Review of the current data set 2. Report on 2019 Data and discussion	1. The activity of dry deposition monitoring was reported in TFMDD5. 2. Summary of atmospheric and ecological data analysis by using 2019 data was presented at SAC20.
NC(DMD)	(19) Preparation of periodic assessment reports on the state of acid deposition in East Asia	1. Fourth Periodic Reports on the State of Acid Deposition in East Asia (PRSAD4) 2. 1st Drafting Committee	1. Draft documents have been prepared for submission to SAC20 based on the documents produced at the LA and DC meetings. 2. The National Assessment Reports have been	None

		Meeting (DC1) for PRSAD4 3. 1st Lead Authors Meeting (LA1) for PRSAD4	submitted from some countries.	

Objective 5: Promotion of Public Awareness- Promote public awareness through knowledge dissemination and outreach based on the monitoring data collected and analyzed and the policy-relevant reports developed.

Table 2.1.5. Implemented Core Activities in 2020 (Sept-Dec) under Objective 5

By	**Activity**	**Accomplished Output (AO)** *(by Dec 2020)*	**Implementation Status** *(by Dec 2020)*	**Remarks** *(Lessons learned, challenges)*
SEC NC(PTD)	(20) Promotion of public awareness	1. Issuance of EANET Newsletter volume 26 was issued in December 2020	1. The Newsletter was issued biannually. https://www.eanet.asia/wp-content/uploads/2020/12/EANET-NL-Vol-26.pdf	Most public awareness activities in 2020 have been reported in the Progress Report of SAC20.

Objective 6: Enhancement of intergovernmental cooperation- Provide a forum for cooperation on the issues related to acid deposition among the participating countries and support future development of the EANET

Table 2.1.6. Implemented Core Activities in 2020 (Sept-Dec) under Objective 6

By	**Activity**	**Accomplished Output (AO)** *(by Dec 2020)*	**Implementation Status** *(by Dec 2020)*	**Remarks** *(Lessons learned, challenges)*
SEC NC(PTD)	Activity 26: Arrangements for the EANET Sessions,	1. Organization of virtual SAC20 Meeting on 23-24 September 2020 2. Reviewed and comments	1. SAC20 Meeting was organized virtually due to the COVID19 pandemic. 2. The SAC20 reviewed: Report on the Progress of EANET since SAC19; Financial Report 2019;	For SAC21, it was considered organized in 3 days instead of 2 days to provide more

	including the SAC20 and IG22	on key documents by SAC20 and recommendations to IG22	documents related to draft of the Medium Term Plan for the EANET (2021-2025); Updated National Monitoring Plans of the Participating Countries; Progress of Development of the Fourth Periodic Report on the State of Acid Deposition in East Asia (PRSAD4); Draft Work Programme and Budget of the EANET in 2021 from scientific and technical viewpoints. 3. The SAC20 adopted: EANET Data Report 2019; Report on the Inter-laboratory Comparison Projects 2019; the Reports from the Chairpersons of the Task Forces of the Scientific Advisory Committee (SAC).	discussion time.
		1. Organization of virtual IG22 Meeting on 25-26 November 2020 2. Reviewed and comments on key documents by IG22, recommendations, and Decisions of IG22	1. IG22 Meeting was organized virtually due to the COVID19 pandemic. 2. IG22 acknowledged: Progress of EANET since IG21; Financial Report in 2019; Summary of Progress Achievements of EANET on its Twentieth Anniversary. 3. IG22 approved: Medium Term Plan (MTP) for the EANET (2021-2025); Revision of the Guidelines on the Administrative and Financial Management for the Secretariat and the Network Center for the EANET; Work Programme and Budget of the EANET in 2021; Proposed Questionnaire Survey to Formulate Non-Core Activities of the EANET 4. IG22 made several decisions (Decisions of IG22) related to MTP (2021-2025), the expanded scope of EANET, and the project fund mechanism.	IG22 requested the Secretariat to organize the Working Group in 2021 to discuss Supplementary Document to Instrument etc.
SEC NC (PTD)	(22) Consideration on the future development of the EANET	1. Decisions of IG22 2. Meeting reports on expansion scope of EANET and project fund submitted to WG	1. Implementation of EANET Working Group Meeting 2 2. Preparation of Meeting documents related to expansion scope of 3. The Task Force, EANET reports, EANET Guideline, and Manuals are considered to be revised.	The organizations and reports of EANET should be considered for the scope expansion.

		meetings, SAC20 and IG22		
SEC NC(PTD)	(23) Review of the arrangements of the EANET Secretariat and the NC and setting up of a new network	Proposed arrangements of the Secretariat and the NC as reflected in the document of the expanded scope of EANET and EANET Project Fund and Project Guideline	1. The Working Group Meeting 2 was organized in October 2020, and the recommendations were made to the IG22. 2. As a result, IG 22 decided to start expanding the scope of EANET, approved MTP (2021-2025), Work Programme, and Budget in 2021, and requested the Secretariat and the NC to support further the preparation process for the expanded scope and project fund and project guideline.	IG22 requested the Secretariat and the NC to discuss further the matters related to the expansion of the scope of EANET and EANET Project Fund and Project Guideline in 2021
SEC NC(PTD)	(24) Revision of Guidelines on Administrative and Financial Management for the Secretariat and NC taking account of decisions of IG	Approved Revision of Guidelines on Administrative and Financial Management by the IG22.	1. The Secretariat and the NC prepared the document in consultation with Participating Countries. 2. The document was reviewed by the working group meetings in 2020 and SAC20 before submission to IG22.	The Revision of Guidelines on Administrative and Financial Management for the Secretariat and NC was prepared in 2021 to accommodate the Decisions of IG22, subject to the approval of IG23.
SEC NC(PTD)	(25) MTP for the EANET (2021-2025)	1. Arrangement of working group meetings in 2020 to develop the MTP (2021-2025) 2. Approved MTP (2021-2025)	1. Following the decisions of IG21, two working group meetings were arranged to discuss MTP (2021-2025) 2. In November 2020, IG22 approved MTP for the EANET (2021-2025).	Following discussion at IG22, the working group meetings in 2021 will be further discussed.

Objective 7: Enhancement of cooperation and collaboration-Enhancement of south-south collaboration and cooperative efforts among participating countries, other relevant networks, and with outside organizations on the EANET objectives

Table 2.1.7. Implemented Core Activities under Objective 7

By	Activity	Accomplished Output (AO) *(by Dec 2020)*	Implementation Status *(by Dec 2020)*	Remarks *(Lessons learned, challenges)*
SEC NC(PTD)	(27) Sharing information on atmospheric environment and policy recommendations to policymakers	Progress has been reported to SAC20	None	None
SEC NC(PTD)	(28) Providing information and policy recommendations to policymakers	Progress has been reported to SAC20	None	None
SEC	(29A) Administrative works (Secretariat)	1. Arrangement of day-to-day financial and administrative arrangement of EANET Secretariat by following UN rules and procedure from Sept-Dec 2020 2. Request letter for financial contribution in 2021 was sent in December 2020. 3. Closure of the Small-scale	1. The voluntary financial contribution expected from each Participating Country in 2021 is shown in Table 1 of Annex 1. 2. Closure of SSFA with RRCAP and NC in December 2020	Participating Countries are reminded to submit their financial contribution in the early months of the fiscal year.

		funding agreement (SSFA) between UNEP and with the Regional Resource Center for Asia and the Pacific, Asian Institute of Technology (RRC.AP/AIT), and Asia Center for Air Pollution Research (ACAP) in 2020		
NC (PTD)	(29B) Administrative works (NC)	Progress has been reported to SAC20	None	None

II-2. IMPLEMENTED/ ONGOING ACTIVITIES IN 2021 *(as part of MTP (2021-2025))*

1. IMPLEMENTED/ONGOING CORE ACTIVITIES IN 2021

Objective 1: Monitoring of air quality and acid deposition including related chemical substances with quality assurance and quality control (QA/QC) – Assist Participating Countries to conduct qualified monitoring of air quality and acid deposition through providing technical guidance, maintenance of the monitoring instrument, improvements of the methods, guidelines, conducting quality assurance and quality control (QA/QC) activities.

Table 2.2.1.1 Implemented/Ongoing Core Activities in 2021 under Objective 1

By	Activity	Accomplished Output (AO) *(as of Sept 2021)*/ Expected output (EO) *(as of Dec 2021)*	Implementation Status *(as of Sept 2021)*	Remarks *(Lessons learned, challenges)*
NC (DMD)	**Activity 1**: Monitoring of acid deposition (acidifying	1. Provision of support for solving technical problems of PC of wet and dry deposition.	1. As for Indonesia, Myanmar, Cambodia,	None

	species and related chemical substances such as ozone and PM), including an increase of EANET monitoring sites, improvement in monitoring methodologies, and better instrument maintenance	2. Consideration of applying less expensive monitoring methods with limited resources. 3. Development of a set of Standard Operating Procedures (SOPs) for operational monitoring. 4. Compilation of NMPs in all member countries and request registration of new monitoring sites at Technical Missions and email communications	etc., technical supports have been implemented. 2. Technical support for preparing the filter for dry deposition monitoring. 3. SOPs were planned to be checked and modified by the national center. 4. NMP 2021 was submitted from almost PCs and introduced in STM.	
NC (ARD)	**Activity 2**: Development/revision of (technical) guidelines, technical manuals, and documents, as necessary	1. Revision of Technical Manuals on Air Concentration Monitoring and Dry Deposition Flux Estimation	1. The 2nd draft of revised technical manuals was discussed in the 2nd meeting of EGRTM.	The 3rd draft of revised technical manuals will be prepared before the 3rd meeting of EGRTM.
NC (DMD)	**Activity 3**: Development/ update of strategy papers for guidance on the future direction of the monitoring, as necessary	2. Sharing the latest scientific knowledge (such as scientific publications) informative for the Strategy Paper activities on ecological effects.	2. Email communications among the Task Force on Soil and Vegetation Monitoring.	None
NC (DMD)	**Activity 4**: Implementation of quality assurance and quality control (QA/QC) activities on acid deposition	1. Distribution of the samples for the Inter-laboratory Comparison (ILC) surveys 2021 (the 24th project on wet deposition, the 17th project on dry deposition (filter-pack method),	1. The samples for ILC surveys 2021 will be distributed in October or November 2021.	None

		the 23rd project on soil, and the 21st project on artificial surface water) to the participating countries. 2. Prepare Reports on the ILC survey in 2020 based on the submitted data for review and adoption at the SAC21 in 2021. 3. Publish Reports on the ILC surveys in 2019 by early 2021 after accommodating reviews and comments from the Session of the SAC20 in September 2020.	2. Reports on the ILC survey in 2020 will be reviewed and adopted at the SAC21 in 2021. 3. Reports on the ILC surveys in 2019 were published in early 2021 after accommodating reviews and comments in SAC20.	
NC (DMD)	**Activity 5**: Routine compilation, verification, evaluation, storage, and provision of data and maintenance of database	1. Compile and validate 2020 monitoring data submitted by participating countries and prepare the draft Data Report. After the adoption of the 2020 data by SAC21, editing and publication of the Data Report will be implemented. 2. Disseminate the EANET data and information in accordance with the "Procedures on Data and Information Disclosure for the EANET" (Annex 2 of the Guidelines ion Administrative and Financial Management for the Secretariat and the Network Center (2017)), and relevant scientific and technical information to the participating countries, organizations, and individuals through the EANET website or using other means of communication as well as at regional/international meetings.	1. After adopting the 2020 data by SAC21, the Data Report 2020 will be edited and published. 2. Through the EANET website or other means of communication, the EANET data, relevant scientific and technical information will be disseminated to the participating countries, organizations, and individuals. 3. EANET monitoring	None

		3. Maintain the EANET monitoring database, enter new data into the database, discuss data sharing with the World Meteorological Organization, follow the signed Letter of Arrangement, and participate in online meetings organized by WMO.	database has been maintained, and new data were entered into the database. Data sharing has been discussed with the WMO, and they participate in online meetings organized by WMO.	

Objective 2: Promotion of data utilization and dissemination – Collect, analyze and evaluate data of monitoring of air quality and acid deposition and share the results to relevant stakeholders to encourage them to utilize the results to tackle the air pollution. The results include policy recommendations. To achieve this objective, research activities on selected subjects can be promoted.

Table 2.2.1.2. Implemented/Ongoing Core Activities in 2021 under Objective 2

By	Activity	Accomplished Output (AO) *(as of Sept 2021)*/ Expected output (EO) *(as of Dec 2021)*	Implementation Status *(as of Sept 2021)*	Remarks *(Lessons learned, challenges)*
NC (ARD)	**Activity 6**: Conduct an annual assessment of the state of acid deposition using trend analysis, numerical models	Described above	Described above	Described above
NC (DMD)	**Activity 7**: Development of Periodic Report on the State of Acid Deposition in East Asia	1. Support the SAC to develop the PRSAD4 based on the Drafting Committee (DC) discussion for the PRSAD4 on the Web. 2. Hold Second Lead Authors' Meeting (LA2)	1. Draft documents have been prepared for submission to SAC21 based on the	None

		and Drafting Committee Meeting (DC2) on the Web. 3. Hold Third Lead Authors' Meeting (LA3) and Drafting Committee (DC3) on the Web.	documents produced at the LA and DC meetings. 2. The National Assessment Reports have been submitted from seven countries only.	
Sec NC (PTD)	**Activity 8**: Regular updating of the website	1. Updated data information on EANET website: Data Reports, monitoring database, Inter-laboratory comparison project, scientific reports, and important activities results, etc., and maintain/improve the monitoring data download system for easy access for data users 2. Updated news on EANET website and features on Manage EANET website: news content development, uploading publications, necessary adjustments to the website function, maintenance of the web hosting. 3. Upload the Report of the Sessions of the EANET Meetings and other relevant EANET documents in collaboration with the Secretariat to disseminate the information of the EANET. 4. Upload EANET Meeting documents to the meeting website for the participants of the Meeting and NFPs in collaboration with the Secretariat fundamentally one month before the meeting. 5. Uploaded meeting documents in the Classified Section of the EANET website.	1. Regular news updates were provided 2. EANET communication activities were implemented according to the plan to increase the usefulness and attractiveness of the website to the audience, and the results were monitored and reviewed. See Annex 3 and 4 to see the Digital Data Review and Report of the EANET Communication Survey 3. In 2021, the host of	The results from the communication survey will be further reviewed as a reference in improving communication quality in the future.

		6. Management of EANET website 7. The new face of the EANET research portal was developed with more user-friendly features, see: https://www.eanet.asia/eanet-research-portal/	the EANET website was moved to a new hosting company powered by green energy. 4. The news updates have been provided regularly on the EANET website throughout 2021.	
NC (DMD)	**Activity 9**: Updating of the data management system in the NC to enable easy access by approved users	No. activity in 2021.	No. activity in 2021.	None

Objective 3: Promotion of capacity building - Strengthen the capacity of the Participating Countries through various activities, including training, workshops, technical supports to Participating Countries, and fostering mutual capacity-building cooperation.

No Core Activities under this objective (as its main objective).

Objective 4: Enhancement of outreach activities - Enhance outreach to the stakeholders to raise their awareness, encourage them to take appropriate actions, and develop collaborative joint activities with EANET.

Table 2.2.1.3. Implemented/Ongoing Core Activities in 2021 under Objective 4

By	Activity	**Accomplished Output (AO)** *(as of Sept 2021)*/ **Expected output (EO)** *(as of Dec 2021)*	**Implementation Status** *(as of Sept 2021)*	**Remarks** *(Lessons learned, challenges)*

NC (PTD)	**Activity 10**: Promotion of public awareness on acid deposition, including other priority chemical species, etc.	1. Provide technical/scientific support for public awareness activities of participating countries 2. Support timely the Secretariat in developing the various contents of articles for the EANET website for public awareness	1. NC supported participating countries in terms of technical/scientific matters, including public awareness. 2. NC supported Secretariat for EANET to develop a video.	A video regarding expanded scope might be considered to be developed in the near.
Sec		1. Public awareness activities in collaboration with the Participating Countries to support environmental activities in regard to acid deposition and air pollution issues, such as organizing EANET webinars and awareness workshops 2. Media and communication plans of EANET and implement monitoring and evaluation of communication activities 3. Communication materials to support awareness activities: Video promotional of EANET 4. Publish regular email blurb to communicate updated information to EANET Participating Countries 5. Developing EANET promotional video 6. Maintain photo archives of EANET 7. Develop the biannual issue of the EANET Newsletter with the NC	1. The Secretariat organized the EANET National Awareness Workshop in 2021 in collaboration with the Republic of Korea. Report of the event is available at https://www.eanet.asia/news-eanet-awareness-workshop-in-2021/ 2. The Secretariat participated in partners' event to introduce EANET and its activities 3. EANET promotional video was developed and reviewed by the NFPs. 4. Email blurp was circulated every two months to communicate updated information to EANET Participating Countries 5. EANET Newsletter vol 27 was issued in June 2021 (see: https://www.eanet.asia/wp-content/uploads/2021/06/EANET-NL-Vol-27.pdf and vol 28 will be issued in December 2021.	Improvements in EANET communication activities are significant this year due to new website features, events, and communication products.

Objective 5: Enhancement of cooperation and collaboration - Enhance collaborative and/or joint activities with relevant entities, including international and/or regional organizations, air pollution-related regional frameworks, financial institutions, research institutes, and interested governments of non-participating countries, to tackle air pollution issues.

Table 2.2.1.4. Implemented/Ongoing Core Activities in 2021 under Objective 5

By	Activity	Accomplished Output (AO) *(as of Sept 2021)*/ Expected output (EO) *(as of Dec 2021)*	Implementation Status *(as of Sept 2021)*	Remarks *(Lessons learned, challenges)*
Sec NC(PTD)	**Activity 11**: Arrangements for the EANET Sessions agreed to by the IG, SAC, and STM meetings	1. (EO) Organized IG22 Meeting on 24-25 November 2021; SAC21 Meeting on 26 2. (EO) Preparation of Meeting documents	1. SAC21 and IG22 will be held virtually due to the COVID-19 pandemic 2. The meeting documents will be prepared and shared with meeting participants before the meeting.	None
NC(PTD) Sec		1. (AO) Organized STM22 Meeting 2. (AO) Provide support to the NC for the arrangement, facilitation, and report the development of the Twenty-second Senior Technical Managers' Meeting (STM22)	1. The STM21 meeting was held on 1-2 Sept. virtually, and 26 participants joined the meeting. 2. There were ten agendas provided for the discussion. The main agendas include 1)the progress of EANET activities, 2)overview of the preliminary draft data report 2020, 3)evaluation for the results of inter-laboratory comparison project 2020, 4)consideration of the national monitoring plans 2021, 5)progress on the revision o the technical manuals for dry deposition flux estimation, and air concentration	None

			monitoring.	
NC(PTD)		3. (AO) TOR of New Task Forces developed	1. Nothing to report	These activities will be implemented after discussions on the scope expansion of EANET
NC (PTD)		4. Maintain regular communication with the SAC members, the participating countries, and the Secretariat.	2. NC keeps communication with the SAC members, the participating countries, and the Secretariat.	None
NC (PTD) Sec	**<u>Activity 12</u>**: Consideration on the future development of the EANET	1. (AO) (EO) The Working Group in 2021 Session 1 (April 2021 and Session 2 (August 2021) were organized by the Secretariat in collaboration with the NC to develop documents relevant to the expansion of the scope 2. The documents will be submitted to IG23 along with other relevant meeting documents in 2021, including developing a detailed concept of the project fund mechanism and phase activities	1. The Working Group Meeting Session 2 discussed the following items:	None
Sec NC (PTD)	**<u>Activity 13</u>**: Review of the arrangements of the EANET Secretariat and the NC	1. (EA) Consider the arrangement of the EANET Secretariat and the NC in collaboration with the Secretariat for the IG23 and other meetings in 2021 as appropriate.	1. The review of the arrangement of EANET was part of the documents submitted in line with the expanded scope of EANET, project fund, and project guidelines.	None

Sec NC(PTD)	**Activity 14**: Revision of Guidelines on Administrative and Financial Management for the Secretariat and NC taking account of the new decisions of the IG	1. (EA) Revision of the Guidelines on Administrative and Financial Management for the Secretariat and NC in collaboration with the Secretariat taking account of the new arrangement of Project Fund to submit relevant documents to the IG, etc.	1. Revision of the Guidelines on Administrative and Financial Management for the Secretariat and NC in collaboration with the Secretariat taking account of the new arrangement of Project Fund to submit relevant documents to the IG were discussed and reviewed at the WG2021-1 be brought to the SAC21 and IG23.	None
Sec NC(PTD)	**Activity 15**: Review of the MTP (2016-2020), revision of the MTP (2021-2025) if necessary, and development of the next MTP for the EANET (2026-2030)	1. (EA) Conduct a terminal review of the MTP (2016-2020) and consider revision of the MTP (2021-2025) if necessary, in collaboration with the Secretariat for submission of IG23	1. The TR of EANET MTP was implemented in the second half of 2021 by an independent evaluator. 2. The draft report was shared with all NFPs and will be submitted and presented at the SAC21 and IG23	None.
NC(PTD)	**Activity 16**: Sharing a common understanding on atmospheric environment issues among the scientific community, such as the APCAP Science Panel	1. Communicate with the participating countries and relevant organizations (such as APCAP, Convention on Long-range Transboundary Air Pollution (UNECE CLRTAP) and its program including the Cooperative Programme for Monitoring and Evaluation of the Long-range Transmission of Air Pollutant in Europe (EMEP); Regional Forum on Environment and Health; Climate & Clean Air Coalition (CCAC), WMO,	1. The NC attends the meeting of WMO to discuss metadata exchange. 2. The NC attended the Working Group of APCAP and APCAP Science Panel Meeting. 3. The NC attended meetings of IBAQ.	None

		WHO; European Monitoring and Evaluation Programme (EMEP); Better Air Quality in Asia (IBAQ), Clean Air Asia (CAA) taking the opportunity of relevant activities and meetings.		
Sec		1. (AO) (EO) Provision of information related to relevant regional and global agenda, such as preparation of the Fifth Session of the UN Environment Assembly linking with the contribution of EANET, updates on Fourth Forum of Ministers and Environment Authorities in the Asia Pacific in October 2021; and updates/information regarding EANET	1. Provided information related to the implementation of the Fourth Forum of Ministers and Environment Authorities in the Asia Pacific, events of partners such as APCAP Joint Forum, UNESCAP RRCAP, OECC, etc.	1. The NFPs received information regarding the regional/international agenda and participated in the events/forum. 2. Partner organizations appreciated the involvement of EANET members in their events.
Sec		1. (EA) (AO) Facilitate sharing a common understanding on atmospheric environment issues among the scientific community	1. Provision of information shared during the EANET Awareness Workshop in 2021 in September 2021 2. Provision of information shared during the Science and Policy Dialogue	None

Table 2.2.1.5. Implemented/Ongoing Core Activities in 2021 Others

By	Activity	Accomplished Output (AO) *(as of Sept 2021)*/ Expected output (EO) *(as of Dec 2021)*	Implementation Status *(as of Sept 2021)*	Remarks *(Lessons learned, challenges)*
NC (PTD)	**Activity 17**: Administrative works	1. (AO) (EO) Arrangement of day-to-day financial and administrative arrangement of the NC in 2021	1. The NC has implemented administrative arrangements for EANET activities.	None
Sec		1. (AO) (EO) Arrangement of day-to-day financial and administrative arrangement of EANET Secretariat by following UN rules and procedures in 2021 2. Follow up on Participating Country Financial Contribution in 2021 to core budget and Non-Core budget (Japan). 3. Development of the Small-scale funding agreement (SSFA) between UNEP and with the Regional Resource Center for Asia and the Pacific, Asian Institute of Technology (RRC.AP/AIT), and Asia Center for Air Pollution Research (ACAP) in 2021	1. The Secretariat has implemented all necessary arrangements for EANET activities in 2021.	None

2. NON-CORE ACTIVITIES IN 2021

Objective 1: Monitoring of air quality and acid deposition including related chemical substances with quality assurance and quality control (QA/QC) – Assist Participating Countries to conduct qualified monitoring of air quality and acid deposition through providing technical guidance, maintenance of the monitoring instrument, improvements of the methods, guidelines, conducting quality assurance and quality control (QA/QC) activities.

Table. 2.2.2.1. Non-Core Activities in 2021 under Objective 1

By	Activity	**Accomplished Output (AO)** *(as of Sept 2021)*/ **Expected output (EO)** *(as of Dec 2021)*	**Implementation Status** *(as of Sept 2021)*	**Remarks** *(Lessons learned, challenges)*
NC (ARD)	**Activity 4:** Research on analysis on the relation of air pollution and acid deposition, including related chemical substances	1. Evaluation of 20 years monitoring data for air pollution and wet and dry deposition components in East Asia	1. Research on analysis of the long-term trend of acid deposition, including related chemical substances, using monitoring data of EANET has been implemented for preparing scientific papers, including PRSAD4. The revised draft of Chapter 3 (Wet and Dry Deposition) for PRSAD4 was submitted to the Secretariat.	The development of scientific papers is under consideration.
NC (EIRD)	**Activity 6**: Promotion of studies on the effects of acid deposition, including other priority chemical species on plants and ecosystems, especially on biogeochemical cycles on a catchment scale as well as regional impact assessment	1. Publication of the paper on KJK in *Atmospheric Environment* (AO). 2. Acceptance/publication of the paper on IJR (EO). 3. Acceptance/publication of the review paper on nitrogen saturation (EO). 4.	1. Continuing the field surveys at the Kajikawa catchment site (KJK). 2. Submission of the final revision of the manuscript on the long-term data assessment of KJK for publication in an international journal. 3. Submission of the manuscript on the sulfur accumulation in the soil of Lake Ijira catchment site (IJR) for publication in an international journal 4. Submission of the review-paper manuscript on nitrogen saturation in central Japan for	It has been suggested that combined effects of acid deposition and climate change be investigated carefully, while phenomena indicating recovery from acidification have been observed in a few sites.

			publication in an international journal. 5. Preparation of the manuscript on acidification of Komarovka River with Russian colleagues. 6. Preparation of the manuscript on critical loads of acidification and nitrogen saturation in the EANET region.	

Objective 2: Promotion of data dissemination and utilization – Collect, analyze and evaluate data of monitoring of air quality and acid deposition and share the results to relevant stakeholders to encourage them to utilize the results to tackle the air pollution. The results include policy recommendations. To achieve this objective, research activities on selected subjects can be promoted.

Objective 3: Promotion of capacity building - Strengthen the capacity of the Participating Countries through various activities, including training, workshops, technical supports to Participating Countries, and fostering mutual capacity-building cooperation.

Table. 2.2.2.2. Non-Core Activities in 2021 under Objective 3

By	**Activity**	**Accomplished Output (AO)** *(as of Sept 2021)*/ **Expected output (EO)** *(as of Dec 2021)*	**Implementation Status** *(as of Sept 2021)*	**Remarks** *(Lessons learned, challenges)*
NC (PTD)	**Activity 15**: Promotion of capacity building for personnel of the participating countries, including	1. (EO) Sixteen trainees from 6 participating countries will receive individual training in 2021. 2. (EO)Through this training, trainees will deepen the knowledge closely related to their laboratory work, data	3. The NC sent the invitation letter to the NFPs on 14 May. 4. The NC received 16 nominations from 6 countries. Namely, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, and Viet Nam. 5. Individual training is scheduled on 4-	Since the training will be conducted virtually, some programs, such as laboratory experiments and on-site surveys, seem difficult to conduct in 2021.

	training courses, capacity building workshops, etc. for monitoring	evaluation, and reporting.	19 November virtually. 6. The training includes eight lectures and covers monitoring, QA/QC, data evaluation and reporting, etc.	
NC (ARD/DMD)	**Activity 16**: Promotion of technical support to Participating Countries by the provision of advice, technical information, and equipment	1. Collecting information from EANET member countries. Technical support for EANET monitoring. 2. Technical mission to EANET countries. (Visiting or Web) 3. Meeting on PM2.5 countermeasures in Thailand	1. Email communications and an online meeting were conducted to discuss technical issues. 2. The Technical mission members to Indonesia, Russia, and Vietnam were determined. 3. The meeting on PM2.5 countermeasures in Thailand was held in April 2021.	1. The Technical Missions will follow up on some issues. 2. The mission members will arrange the schedule and plan. 3. The next meeting in Thailand will be planned by communications with PCD
NC (DMD)	**Activity 18**: Promotion of research and technical cooperation on emission inventory to support the capacity building	1. (AO) Forty-six participants from 9 countries registered for the Emission Inventory Workshop. One participant from each country was nominated to make a short presentation about issues related to national emission inventory. 2. (AO) Five lecture presentations from experts on the development and application of emission inventory were included in the program. 3. (EO) The workshop will be held on 18 October in virtual with presentations from lecturers and participants and following discussions among them.	1. The invitation letter of the Emission Inventory Workshop with outline and registration form was prepared and sent to NFPs for the nomination of participants several times from the end of August. 2. The invitation emails were sent to experts to provide lecture presentations at the workshop from the end of August. Five experts accepted the offer. 3. The program and weblink of the workshop were prepared at the end of September.	This workshop will be held in virtual and only presentations, and discussions are planned at this time. It is suggested to consider if some practical training is possible even in virtual style workshop.

NC(PTD)	**Activity 20**: Conduct fellowship research program	1. (AO) A researcher from Myanmar was selected for the program. 2. (EO) Regarding the research theme, the researcher will receive necessary advice and instructions from the supervisor of NC.	1. NC sent the announcement letter to NFPs on 14 May 2021. 2. There were four applications from 2 countries, namely Myanmar and the Philippines, and among them, one researcher from Myanmar was selected. 3. The research title is "The Effect of Meteorological Parameters on Particulate Matter (PM2.5) in Yangon City, Myanmar". 4. The Research Fellowship program will start in October 2021, with an eight-week duration using the online platform.	Due to COVID-19, the research fellowship program cannot be conducted in person but virtually.
Sec		1. (AO) (EO) Provision of funds through the surplus of the Secretariat for the EANET Research Fellowship in 2021	2. An SSFA was developed between Secretariat and the NC to implement EANET Research Fellowship Programme in 2021.	Looking at the available funds, there is no surplus of Secretariat can be allocated for the next program.

Objective 4: Enhancement of outreach activities - Enhance outreach to the stakeholders to raise their awareness, encourage them to take appropriate actions, and develop collaborative joint activities with EANET.

Table. 2.2.2.3. Non-Core Activities in 2021 under Objective 4

By	Activity	**Accomplished Output (AO)** *(as of Sept 2021)*/ **Expected output (EO)** *(as of Dec 2021)*	**Implementation Status** *(as of Sept 2021)*	**Remarks** *(Lessons learned, challenges)*
NC (PTD)	**Activity 24:** Publication of EANET	1. (AO) The NC supported the Secretariat to develop the Research Portal in the EANET	1. The scientific reports (as contents of the former Science	The cooperation of participating countries is

	Science Bulletin	website.	Bulletin) were uploaded in the Research portal.	necessary to gather the related papers/reports.

Objective 5: Enhancement of cooperation and collaboration - Enhance collaborative and/or joint activities with relevant entities, including international and/or regional organizations, air pollution-related regional frameworks, financial institutions, research institutes, and interested governments of Non-participating countries, to tackle air pollution issues.

Table. 2.2.2.4. Non-Core Activities in 2021 under Objective 5

By	**Activity**	**Accomplished Output (AO)** *(as of Sept 2021)*/ **Expected output (EO)** *(as of Dec 2021)*	**Implementation Status** *(as of Sept 2021)*	**Remarks** *(Lessons learned, challenges)*
SEC NC (PTD)	**Activity 26**: Providing information and policy recommendations to policymakers based on sound science and assessment	1. (EO) Science and Policy Dialogue (SPD) will be organized on 26 November 2021 in collaboration between the Secretariat and the NC. (funded by Japan) 2. The event will be open to public	1. The Concept Note of the SPD has been developed 2. Due to COVID19, the event has been changed from initially planned to be organized offline to be organized online.	COVID19 is the challenge faced in organizing SPD
NC (PTD)	**Activity 27**: Promotion of communication, collaboration, and cooperation with other relevant international organizations, initiatives, and programs	1. (AO)The NC attended the GAW Symposium of WMO.	1. The meetings of CLRTAP were considered to participate.	None
Sec		1. (AO) The Secretariat continues to support the engagement with other partner organizations through various activities.	1. Sharing the information with the EANET members	None

Annex 1 – Summary of Financial Contribution

Table 1 - Financial Contributions from the Participating Countries to the Secretariat Budget in 2020 and 2021 (as of August 2021) in US$

Participating Countries	2020 Budget		2021 Budget	
	Expected	Actual	Expected	Actual
Cambodia	105	200	134	200
China	203,730	97,730	272,602	203,730
Indonesia	12,962	-	12,332	-
Japan	248,974	248,974	194,468	194,468
Lao PDR	74	-	115	-
Malaysia	8,284	8,284	7,742	7,742
Mongolia	130	200	115	-
Myanmar	260	260	225	225
Philippines	4,244	4,244	4,657	4,657
R. of Korea	52,432	50,500	51,478	51,220
Russia	79,427	79,427	54,612	54,612
Thailand	7,485	7,485	6,971	6,971
Viet Nam	1,493	1,493	1,749	-
Total Contribution	**619,600**	**498,797**	**607,200**	**523,825**

Note: [a] Minimum amount of voluntary financial contribution is US$ 200.

Table 2 - Estimated Financial Contribution of Participating Countries to the Secretariat for the EANET for the Period of 2021-2025 (MTP 2021-2025)

Participating Countries	UN scale of assessment 2021-2025 (%)	Scale of EANET burden sharing (%)	Estimated annual contribution from 2021 to 2025 (USD)
Cambodia*	0.006	0.022	134*
China	12.005	44.895	272,602
Indonesia	0.543	2.031	12,332
Japan	8.564	32.027	194,468
Lao PDR*	0.005	0.019	115*
Malaysia	0.341	1.275	7,742
Mongolia*	0.005	0.019	115*
Myanmar	0.010	0.037	225
Philippines	0.205	0.767	4,657
R. of Korea	2.267	8.478	51,478
Russia	2.405	8.994	54,612
Thailand	0.307	1.148	6,971
Viet Nam	0.077	0.288	1,749
Total	**----**	**100.000**	**607,200****

Note: [a] Minimum amount for the voluntary financial contribution is USD 200

Table 3 - Contributions from the Participating Countries to the NC Core Budget in 2020/2021(US$) (As of the end of September 2021)

Participating Countries	2020 Budget		2021 Budget	
	Expected	Actual	Expected	Actual
Cambodia	70*	200	121*	200
China	136,127	102,170	246,384	102,170
Indonesia	8,661	---	11,146	-
Japan	166,353	239,985	175,764	-
Lao PDR	50*	---	104*	-
Malaysia	5,535	---	6,997	-
Mongolia	87*	185	104*	200
Myanmar	170*	200	203	203
Philippines	2,836	2,836	4,209	4,209
R. of Korea	35,041	---	46,527	
Russia	53,071	53,071	49,359	49,359
Thailand	5,001	4,315	6,300	4,829
Viet Nam	998	998	1,581	-
Total	**414,000**	**403,960**	**548,800****	**161,170**

**Minimum amount for the voluntary financial contribution is US$ 200.*

***Estimated 5-year flat amount of annual voluntary contribution based on MTP for the EANET (2021-2025).*

Table 4 - Estimated Voluntary Financial Contribution of Participating Countries to the NC Core Budget for the period from 2021 to 2025

Participating Countries	UN scale of assessment 2016-2018 (%)	Scale of EANET burden sharing (%)	Estimated annual contribution (US$)
Cambodia*	0.006	0.022	121*
China	12.005	44.895	246,384
Indonesia	0.543	2.031	11,146
Japan	8.564	32.027	175,764
Lao PDR*	0.005	0.019	104*
Malaysia	0.341	1.275	6,997
Mongolia*	0.005	0.019	104*
Myanmar*	0.010	0.037	203
Philippines	0.205	0.767	4,209
R. of Korea	2.267	8.478	46,527
Russia	2.405	8.994	49,359
Thailand	0.307	1.148	6,300
Viet Nam	0.077	0.288	1,581
Total	**----**	**100**	**548,800****

* Minimum amount for the yearly financial contribution is US$ 200.

** Estimated 5-year flat amount of annual voluntary contribution based on the MTP for the EANET (2021-2025)

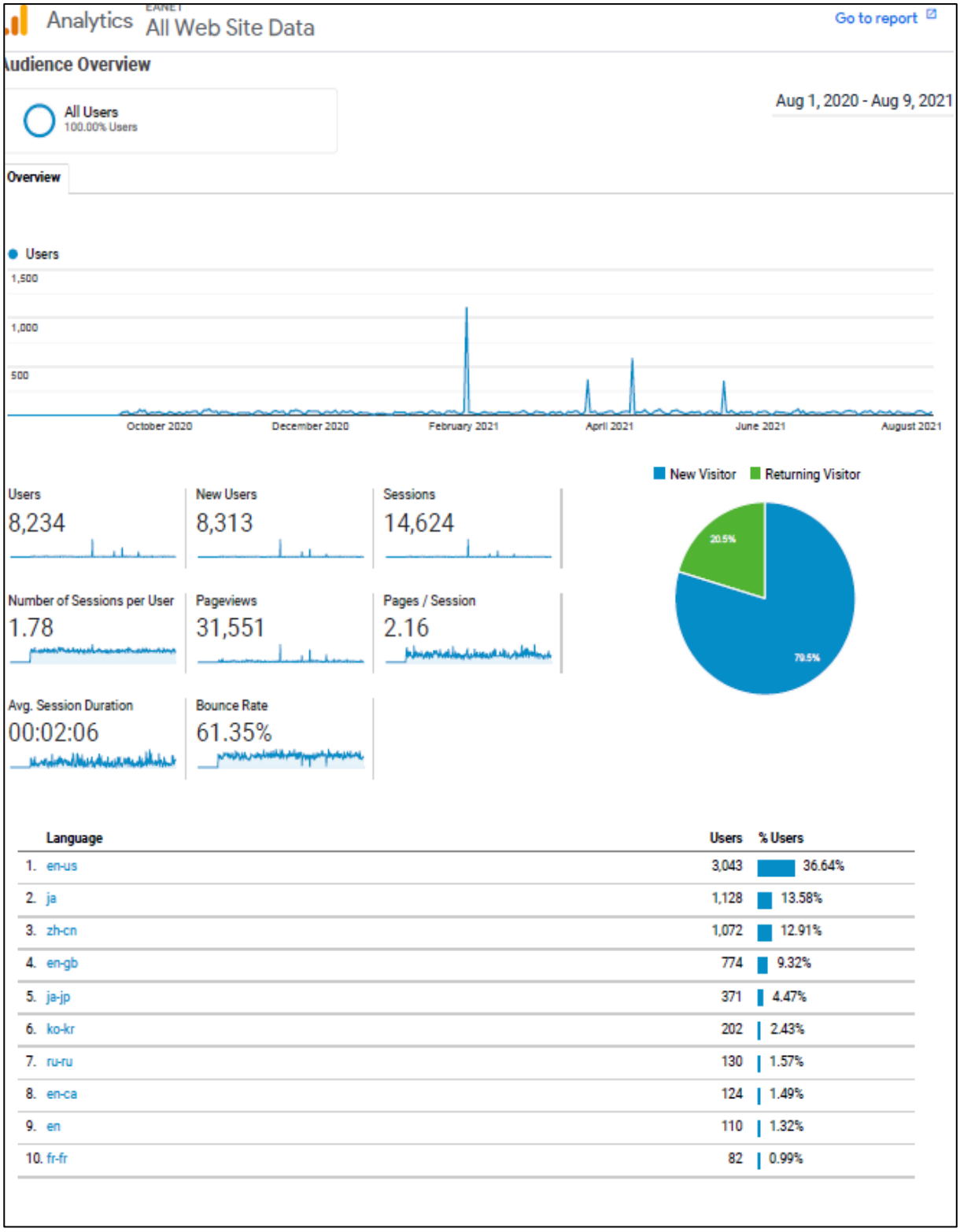
Annex 2 – Task Forces and Expert Groups

Members of the Task Forces and Expert Groups under the SAC

Name	Members
Task Force on Monitoring for Dry Deposition	Prof. Fan Meng (China) - **Chairperson** Ms. Loch Sokleang (Cambodia) Dr. Li Jianjun (China) Ms. Rina Aprishanty (Indonesia) Dr. Shiro Hatakeyama (Japan) Mr. Thilakone Sisouphanh (Lao PDR) Dr. Ahmad Fairudz Jamaluddin (Malaysia) Ms. Bold Altantuya (Mongolia) Dr. Kyu Kyu Sein (Myanmar) Engr. Jundy del Socorro (Philippines) Prof. Taehyoung Lee (Republic of Korea) Dr. Sergey A. Gromov (Russia) Dr. Patcharawadee Suwanathada (Thailand) Dr. Le Ngoc Cau (Viet Nam)
Task Force on Soil and Vegetation Monitoring	Dr. Wilfredo M. Carandang (Philippines) - **Chairperson** Prof. Zhaozhong Feng (China) Dr. Sijin LU (China) Dr. Masamichi Takahashi (Japan) Prof. Nik Muhamad Majid/ Dr. Roland Kueh Jui Heng (Malaysia) Dr. Marco A. Galang (Philippines) Dr. Jeong-Ki Yoon/ Ms. Ji-In Kim (Republic of Korea) Dr. Tatiana A. Mikhailova/ Ms. Natalia ZHUCHENKO (Russia) Dr. Hiroyuki Sase (ACAP)
Task Force on Monitoring Instrumentation	Vacancy - **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 (Viet Nam)

Name	Members
Task Force on Research Coordination	Dr. Sergey Gromov (Russia) - **Chairperson** Dr. Meng Fan Dr. Toshimasa Ohara (Japan) Prof. Katsunori Suzuki (Japan) Dr. Elizabeth Phillip (Malaysia) Dr. Wilfredo M. Carandang (Philippines) Dr. Cho Seog-Yeon (R. of Korea) Dr. Tamara Khodzher (Russia) Dr. Hathairatana Garivait (Thailand) Dr. Duong Hong Son (Viet Nam) Dr. Kazuhiko Sakamoto (ACAP)
Expert Group on Revision of the Technical Manuals for Dry Deposition Flux Estimation and Air Concentration Monitoring	Dr. Patcharawadee Suwanathada (Thailand) – **Chairperson** Prof. Min Hu (China) Dr. Kazuhide Matsuda (Japan) TBD (Philippines) Prof.Cho Seog-Yeon (Republic of Korea) Dr. Le Ngoc Cau (Viet Nam)

Annex 3 – Digital Data Report



	Language	Users	% Users
1.	en-us	3,043	36.64%
2.	ja	1,128	13.58%
3.	zh-cn	1,072	12.91%
4.	en-gb	774	9.32%
5.	ja-jp	371	4.47%
6.	ko-kr	202	2.43%
7.	ru-ru	130	1.57%
8.	en-ca	124	1.49%
9.	en	110	1.32%
10.	fr-fr	82	0.99%

Annex 4- Report of EANET Communication Survey

1) Summary of Results

a) The Respondents: 27 out of 99 participated in the survey; **mostly EANET SAC Members** (40.7%), **85.2% interact** with the **NC**.

b) **EANET General Communication Tools**

- ✓ **85.2%** of the respondents **mostly stay informed** about EANET **through EANET's website**.
- ✓ Respondents rated **EANET's website's usefulness** at **7.9** out of 10
- ✓ Respondents rated **EANET's Newsletter's usefulness** at **7.3** out of 10
- ✓ Respondents rated **EANET's bi-monthly email updates usefulness** at **6.4** out of 10
- ✓ **Most respondents** consider that the **current communication channels are adequate,** although some miss the face-to-face meetings.
- ✓ Most respondents **don't have any additional feedback related to EANET's global communication**. Some participants mentioned promoting more EANET research. Other respondents mentioned raising awareness on air quality issues. One participant suggests developing documents targeting the youth.

c) **Awareness Raising Tools**

- ✓ **70.4%** of the respondents consider the **EANET Newsletter** as **the most useful tool** for **awareness-raising**.
- ✓ Most respondents are **using the available EANET publications** for awareness-raising purposes.
- ✓ **Most respondents** are **satisfied** with the current **available EANET publications** for awareness-raising. Some suggest developing a document similar to the 25 clean air measures for Asia and the Pacific and targeting the youth.

d) **EANET Research Portal**

- ✓ **55.6%** of the respondents **have already visited** the new **EANET Research Portal** webpage.
- ✓ Respondents rated **EANET's Research Portal's usefulness** at **7.4** out of 10
- ✓ Most respondents **don't have any additional comments on the Research Portal**. One respondent mentioned that the design of the webpage could be more compact. Some participants mention it is a good initiative to promote more EANET's research activities.

2) Suggestions from Respondents

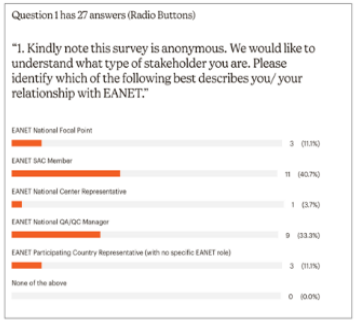
a) When the COVID-19 situation improves, some respondents suggest organizing **face-to-face meetings** and/or events again.

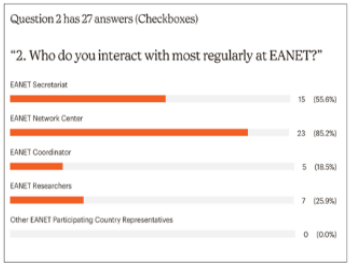
b) Some respondents suggest promoting **more EANET's research activities** and **raising awareness on air quality issues**.

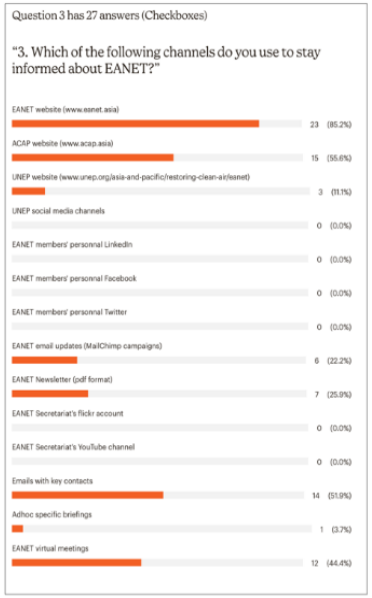
c) Some respondents suggest developing **a document similar to the 25 clean air measures for Asia and the Pacific**

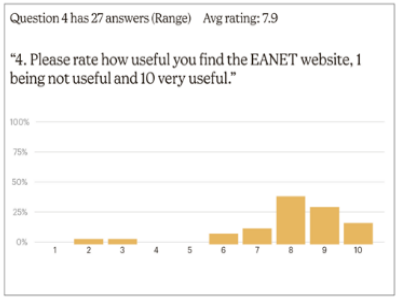
d) One respondent suggests developing **documents targeting the youth**.

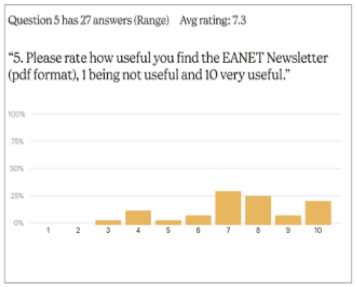
Survey Results – Questions 1 to 14

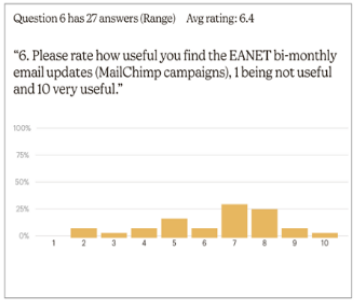


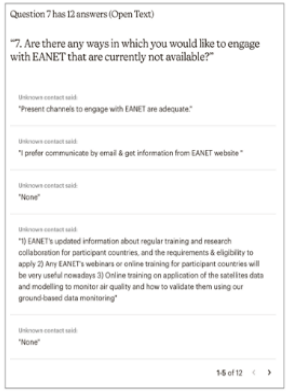


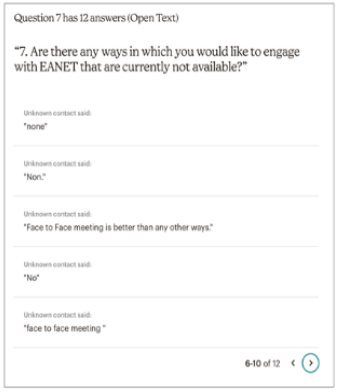


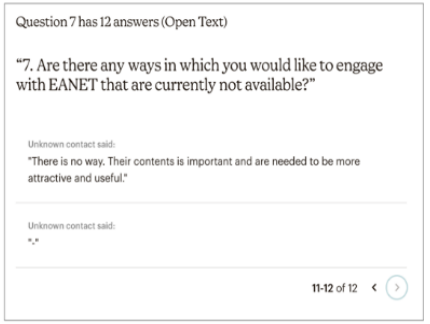


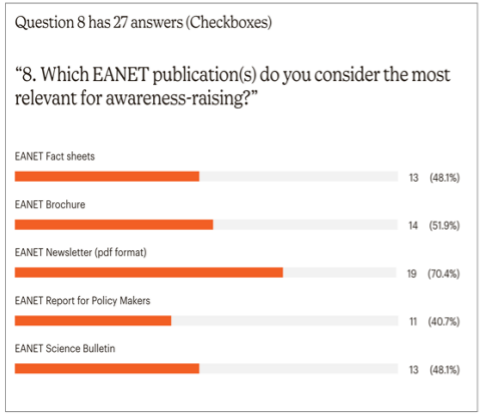


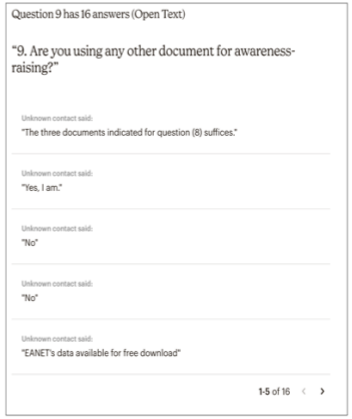


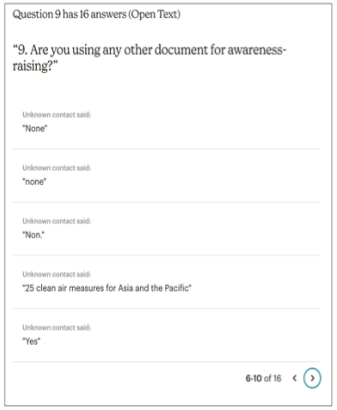


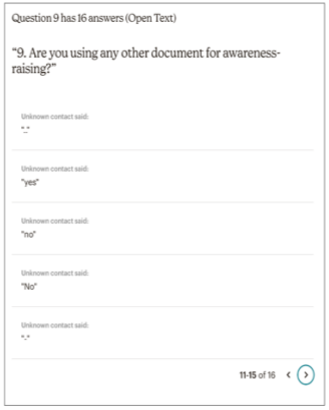


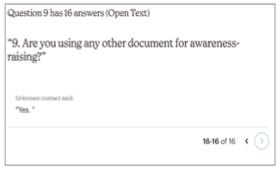


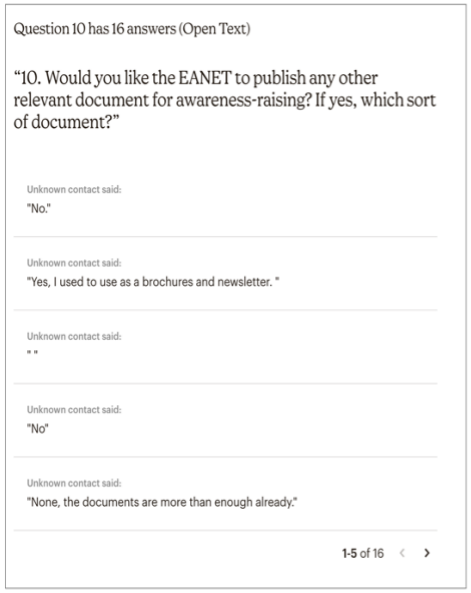

Question 8 has 27 answers (Checkboxes)
"8. Which EANET publication(s) do you consider the most relevant for awareness-raising?"
EANET Fact sheets
13 (48.1%)
EANET Brochure
14 (51.9%)
EANET Newsletter (pdf format)
19 (70.4%)
EANET Report for Policy Makers
11 (40.7%)
EANET Science Bulletin
13 (48.1%)

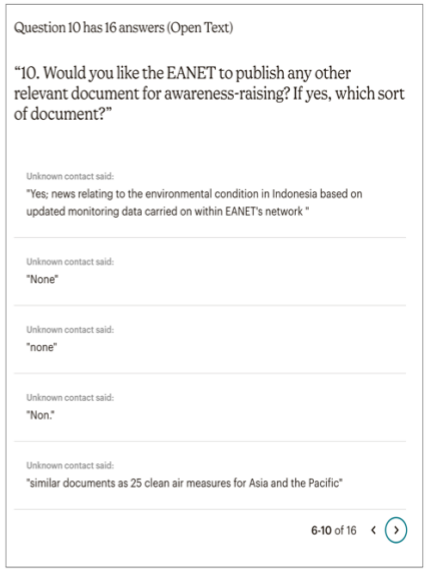

Question 9 has 16 answers (Open Text)
"9. Are you using any other document for awareness-raising?"
Unknown contact said:
"The three documents indicated for question (8) suffices."
Unknown contact said:
"Yes, I am."
Unknown contact said:
"No"
Unknown contact said:
"No"
Unknown contact said:
"EANET's data available for free download"
1-5 of 16

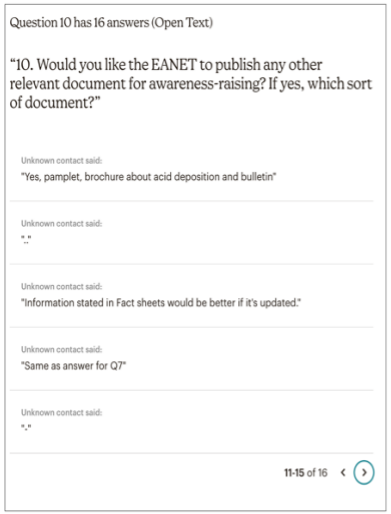

Question 9 has 16 answers (Open Text)
"9. Are you using any other document for awareness-raising?"
Unknown contact said:
"None"
Unknown contact said:
"none"
Unknown contact said:
"Non."
Unknown contact said:
"25 clean air measures for Asia and the Pacific"
Unknown contact said:
"Yes"
6-10 of 16

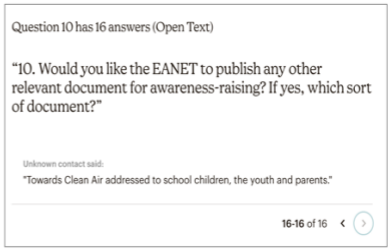

Question 9 has 16 answers (Open Text)
"9. Are you using any other document for awareness-raising?"
Unknown contact said:
"yes"
Unknown contact said:
"no"
Unknown contact said:
"No"
11-15 of 16


Question 9 has 16 answers (Open Text)
"9. Are you using any other document for awareness-raising?"
16-16 of 16


Question 10 has 16 answers (Open Text)
"10. Would you like the EANET to publish any other relevant document for awareness-raising? If yes, which sort of document?"
Unknown contact said:
"No."
Unknown contact said:
"Yes, I used to use as a brochures and newsletter. "
Unknown contact said:
" "
Unknown contact said:
"No"
Unknown contact said:
"None, the documents are more than enough already."
1-5 of 16


Question 10 has 16 answers (Open Text)
"10. Would you like the EANET to publish any other relevant document for awareness-raising? If yes, which sort of document?"
Unknown contact said:
"Yes; news relating to the environmental condition in Indonesia based on updated monitoring data carried on within EANET's network "
Unknown contact said:
"None"
Unknown contact said:
"none"
Unknown contact said:
"Non."
Unknown contact said:
"similar documents as 25 clean air measures for Asia and the Pacific"
6-10 of 16


Question 10 has 16 answers (Open Text)
"10. Would you like the EANET to publish any other relevant document for awareness-raising? If yes, which sort of document?"
Unknown contact said:
"Yes, pamplet, brochure about acid deposition and bulletin"
Unknown contact said:
" "
Unknown contact said:
"Information stated in Fact sheets would be better if it's updated."
Unknown contact said:
"Same as answer for Q7"
Unknown contact said:
"-"
11-15 of 16

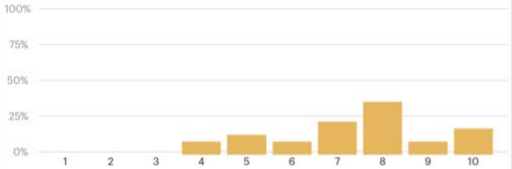

Question 10 has 16 answers (Open Text)
"10. Would you like the EANET to publish any other relevant document for awareness-raising? If yes, which sort of document?"
Unknown contact said:
"Towards Clean Air addressed to school children, the youth and parents."
16-16 of 16

Question 11 has 27 answers (Radio Buttons)

"11. Have you already visited the new Research Portal page on eanet.asia (https://www.eanet.asia/eanet-research-portal/)?"

Question 12 has 26 answers (Range) Avg rating: 7.4

"12. Please rate how useful you find the new Research Portal page on eanet.asia (https://www.eanet.asia/eanet-research-portal/), 1 being not useful and 10 very useful."



Question 13 has 15 answers (Open Text)

"13. Do you have any comments or suggestions you would like to share related to this new Research Portal webpage?"

Unknown contact said: "Just realise there was this Research Portal due to this Survey. "

Unknown contact said: "No, I do not."

Unknown contact said: "No"

Unknown contact said: "This is good. More promotion for the use of the Research Portal webpage."

Unknown contact said: "Not any of the researchers from my home country is involved, and there is no information about my home country in the report"

1-5 of 15

Question 13 has 15 answers (Open Text)

"13. Do you have any comments or suggestions you would like to share related to this new Research Portal webpage?"

Unknown contact said: "None"

Unknown contact said: "none"

Unknown contact said: "Non."

Unknown contact said: "No."

Unknown contact said: "No"

6-10 of 15

Question 13 has 15 answers (Open Text)

"13. Do you have any comments or suggestions you would like to share related to this new Research Portal webpage?"

Unknown contact said: "-"

Unknown contact said: "The web design of the portal site needs improvement. I want it to be more compact and easier to list."

Unknown contact said: "No"

Unknown contact said: "-"

Unknown contact said: "I see that it's now of easier access for any of the researches undertaken by EANET with the participating countries."

11-15 of 15

Question 14 has 14 answers (Open Text)

"14. Do you have any further comments, suggestions, or feedback in relation to global communications and engagement with EANET?"

Unknown contact said: "No, I do not."

Unknown contact said: "No"

Unknown contact said: "None so far"

Unknown contact said: "1) Involvement of researchers from participating countries, especially institutions engaged, in any of research and its publication relating to Indonesia; 2) Giving opportunities for personnel responsible for data monitoring in Indonesia to utilize the data under EANET's supervision and recommendation for them to pursue their further education; 3) More support relating to technical problems found during the monitoring, such as calibration of the instruments; flag in ILC report; alternative method if recommended one is not available due to temporarily failure "

Unknown contact said: "None"

1-5 of 14

Question 14 has 14 answers (Open Text)

"14. Do you have any further comments, suggestions, or feedback in relation to global communications and engagement with EANET?"

Unknown contact said: "More research and more advance method development for EANET."

Unknown contact said: "Non."

Unknown contact said: "Yes, EANET should extend network to global cooperation in the field of acid deposition, air pollution related to climate change. "

Unknown contact said: "No"

Unknown contact said: "-"

6-10 of 14

Question 14 has 14 answers (Open Text)

"14. Do you have any further comments, suggestions, or feedback in relation to global communications and engagement with EANET?"

Unknown contact said: "No"

Unknown contact said: "We may need to more monitoring of EANET Network , human resources and public awareness."

Unknown contact said: "-"

Unknown contact said: "Information for the youth and school children regarding air quality management towards clean air."

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