



The Network Center for the Acid Deposition Monitoring Network in East Asia

REPORT ON THE PROGRESS OF THE EANET SINCE THE SAC20

SAC21

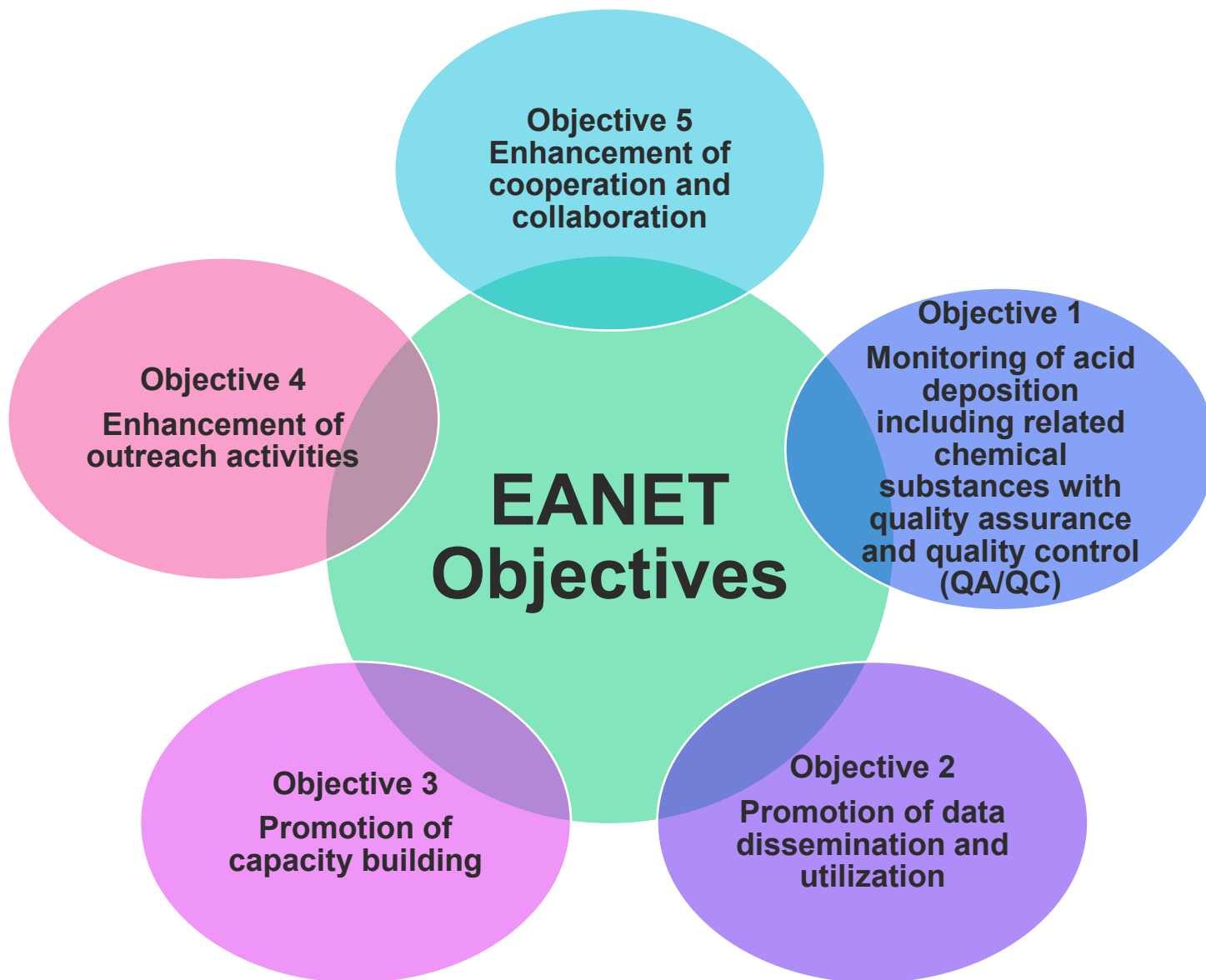
26-28 October 2021

Virtual Meeting



OUTLINE

- Brief introduction of EANET objectives in the 4th MTP (2021-2025)
- Accomplished or expected outputs through conduction of activities
- Self-evaluation of EANET activities in 2020





OBJECTIVE-1

MONITORING OF ACID DEPOSITION INCLUDING RELATED CHEMICAL SUBSTANCES WITH QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC)

Core Activity	Accomplished Output (AO) (as of Sept 2021) / Expected output (EO) (as of Dec 2021)
<p><u>Activity 1:</u> Monitoring of acid deposition (acidifying 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</p>	<ol style="list-style-type: none"> 1. Provision of support for solving technical problems of PC of wet and dry deposition. 2. Consideration on 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
<p><u>Activity 2:</u> Development/revision of (technical) guidelines, technical manuals, and documents, as necessary</p>	<ol style="list-style-type: none"> 1. Revision of Technical Manuals on Air Concentration Monitoring and Dry Deposition Flux Estimation
<p><u>Activity 3:</u> Development/ update of strategy papers for guidance on the future direction of the monitoring, as necessary</p>	<ol style="list-style-type: none"> 1. Sharing the latest scientific knowledge (such as scientific publications) informative for the Strategy Paper activities on ecological effects.
<p><u>Activity 4:</u> Implementation of quality assurance and quality control (QA/QC) activities on acid deposition</p>	<ol style="list-style-type: none"> 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), 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.
<p><u>Activity 5:</u> Routine compilation, verification, evaluation, storage, and provision of data and maintenance of database</p>	<ol style="list-style-type: none"> 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 on 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. 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.



OBJECTIVE-1

MONITORING OF ACID DEPOSITION INCLUDING RELATED CHEMICAL SUBSTANCES WITH QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC)

Non-core Activity	Accomplished Output (AO) (as of Sept 2021)/ Expected output (EO) (as of Dec 2021)	Implementation Status (as of Sept 2021)
Activity 4: Research on analysis on the relation of air pollution and acid deposition, including related chemical substances	<ol style="list-style-type: none"> Evaluation of 20 years monitoring data for air pollution and wet and dry deposition components in East Asia (AO). 	<ol style="list-style-type: none"> 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.
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	<ol style="list-style-type: none"> Publication of the paper on KJK in Atmospheric Environment (AO). Acceptance/publication of the paper on IJR (EO). Acceptance/publication of the review paper on nitrogen saturation (EO). 	<ol style="list-style-type: none"> Continuing the field surveys at the Kajikawa catchment site (KJK). Submission of the final revision of the manuscript on the long-term data assessment of KJK for publication in an international journal. Submission of the manuscript on the sulfur accumulation in the soil of Lake Ijira catchment site (IJR) for publication in an international journal Submission of the review-paper manuscript on nitrogen saturation in central Japan for publication in an international journal. Preparation of the manuscript on acidification of Komarovka River with Russian colleagues. Preparation of the manuscript on critical loads of acidification and nitrogen saturation in the EANET region.

Overall, the accomplished outputs have almost met the expected goals under objective 1 through this year's activities.



OBJECTIVE-2 PROMOTION OF DATA DISSEMINATION AND UTILIZATION

Core Activity	Accomplished Output (AO) (as of Sept 2021)/ Expected output (EO) (as of Dec 2021)	Implementation Status (as of Sept 2021)
Activity 6: Conduct an annual assessment of the state of acid deposition using trend analysis, numerical models	Described above	Described above
Activity 7: Development of Periodic Report on the State of Acid Deposition in East Asia	<ol style="list-style-type: none"> 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) and Drafting Committee Meeting (DC2) on the Web. 3. Hold Third Lead Authors' Meeting (LA3) and Drafting Committee (DC3) on the Web. 	<ol style="list-style-type: none"> 1. Draft documents have been prepared for submission to SAC21 based on the documents produced at the LA and DC meetings. 2. The National Assessment Reports have been submitted from seven countries only.



OBJECTIVE-2 (CONTINUED) PROMOTION OF DATA DISSEMINATION AND UTILIZATION

Core Activity	Accomplished Output (AO) (as of Sept 2021)/ Expected output (EO) (as of Dec 2021)	Implementation Status (as of Sept 2021)
Activity 8: Regular updating of the website	<ol style="list-style-type: none"> 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. 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/ 	<ol style="list-style-type: none"> 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 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.
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.

Overall, the accomplished outputs have almost met the expected goals under objective 2 through this year's activities. However, some activities, such as regular updating of the website, will be continuously conducted until the end of this year.



OBJECTIVE-3 PROMOTION OF CAPACITY BUILDING

Non-core Activity	Accomplished Output (AO) (as of Sept 2021)/ Expected output (EO) (as of Dec 2021)	Implementation Status (as of Sept 2021)
Activity 15: Promotion of capacity building for personnel of the participating countries, including training courses, capacity building workshops, etc. for monitoring	<ol style="list-style-type: none"> (EO) Sixteen trainees from 6 participating countries will receive individual training in 2021. (EO) Through this training, trainees will deepen the knowledge closely related to their laboratory work, data evaluation, and reporting. 	<ol style="list-style-type: none"> The NC sent the invitation letter to the NFPs on 14 May. The NC received 16 nominations from 6 countries. Namely, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, and Viet Nam. Individual training is scheduled on 4-19 November virtually. The training includes eight lectures and covers monitoring, QA/QC, data evaluation and reporting, etc.
Activity 16: Promotion of technical support to Participating Countries by the provision of advice, technical information, and equipment	<ol style="list-style-type: none"> Collecting information from EANET member countries. Technical support for EANET monitoring. Technical mission to EANET countries. Meeting on PM2.5 countermeasures in Thailand 	<ol style="list-style-type: none"> Email communications and an online meeting were conducted to discuss technical issues. The Technical mission members to Indonesia, Russia, and Vietnam were determined. The meeting on PM2.5 countermeasures in Thailand was held in April 2021.



OBJECTIVE-3 (CONTINUED) PROMOTION OF CAPACITY BUILDING

Non-core Activity	Accomplished Output (AO) (as of Sept 2021)/ Expected output (EO) (as of Dec 2021)	Implementation Status (as of Sept 2021)
Activity 18: Promotion of research and technical cooperation on emission inventory to support the capacity building	<ol style="list-style-type: none"> (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. (AO) Five lecture presentations from experts on the development and application of emission inventory were included in the program. (AO) The workshop was held on 18 October in virtual with presentations from lecturers and participants and following discussions among them. 	<ol style="list-style-type: none"> 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. The invitation emails were sent to experts to provide lecture presentations at the workshop also from the end of August. Five experts accepted the offer. The program and weblink of the workshop were prepared at the end of September.
Activity 20: Conduct fellowship research program	<ol style="list-style-type: none"> (AO) A researcher from Myanmar was selected for the program. (EO) Regarding the research theme, the researcher will receive necessary advice and instructions from the supervisor of NC. 	<ol style="list-style-type: none"> NC sent the announcement letter to NFPs on 14 May 2021. There were four applications from 2 countries, namely Myanmar and the Philippines, and among them, one researcher from Myanmar was selected. The research title is “The Effect of Meteorological Parameters on Particulate Matter (PM2.5) in Yangon City, Myanmar”. The Research Fellowship program will start in October 2021, with an eight-week duration using the online platform.
	<ol style="list-style-type: none"> (AO) (EO) Provision of funds through the surplus of the Secretariat for the EANET Research Fellowship in 2021 	<ol style="list-style-type: none"> An SSFA was developed between Secretariat and the NC to implement EANET Research Fellowship Programme in 2021.

The activities for capacity building, including the emission inventory workshop, have been successfully done. Other than these activities, for instance, individual training and fellowship program will be conducted from the beginning of November.



OBJECTIVE-4 ENHANCEMENT OF OUTREACH ACTIVITIES

Activity	Accomplished Output (AO) (as of Sept 2021)/ Expected output (EO) (as of Dec 2021)	Implementation Status (as of Sept 2021)	Non-core Activity	Accomplished Output (AO) (as of Sept 2021)/ Expected output (EO) (as of Dec 2021)	Implementation Status (as of Sept 2021)
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	1. NC supported participating countries in terms of technical/scientific matters, including public awareness.	Activity 24: Publication of EANET Science Bulletin	1. (AO) The NC supported the Secretariat to develop the Research Portal in the EANET website.	1. The scientific reports (as contents of the former Science Bulletin) were uploaded in the Research portal.
	2. Support timely the Secretariat in developing the various contents of articles for the EANET website for public awareness	2. NC supported Secretariat for EANET to develop Video.			
	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	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. Media and communication plans of EANET and implement monitoring and evaluation of communication activities	2. The Secretariat participated in partners' event to introduce EANET and its activities			
	3. Communication materials to support awareness activities: Video promotional of EANET	3. EANET promotional video was developed and reviewed by the NFPs.			
	4. Publish regular email blurb to communicate updated information to EANET Participating Countries	4. Email blurb was circulated every two months to communicate updated information to EANET Participating Countries			
	5. Developing EANET promotional video	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.			
6. Maintain photo archives of EANET					
7. Develop the biannual issue of the EANET Newsletter with the NC					

Overall, the accomplished outputs have partly met the expected goals under objective 4 through this year's activities. Some activities, such as regular updating of research portal, issuing newsletters will be continuously conducted until the end of this year.



OBJECTIVE-5 ENHANCEMENT OF COOPERATION AND COLLABORATION

Core Activity	Accomplished Output (AO) (as of Sept 2021)/ Expected output (EO) (as of Dec 2021)	Implementation Status (as of Sept 2021)
Activity 11: Arrangements for the EANET Sessions agreed to by the IG, SAC, and STM meetings	<ol style="list-style-type: none"> 1. (EO) Organized IG22 Meeting on 24-25 November 2021; SAC21 Meeting on 26 2. (EO) Preparation of Meeting documents <hr/> <ol style="list-style-type: none"> 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) <hr/> <ol style="list-style-type: none"> 1. (AO) TOR of New Task Forces developed 1. Maintain regular communication with the SAC members, the participating countries, and the Secretariat. 	<p>SAC21 and IG22 will be held virtually due to the COVID-19 pandemic. The meeting documents will be prepared and shared with meeting participants before the meeting.</p> <hr/> <ol style="list-style-type: none"> 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 monitoring. <hr/> <p>Nothing to report</p> <hr/> <p>NC keeps communication with the SAC members, the participating countries, and the Secretariat.</p>
Activity 12: Consideration on the future development of the EANET	<p>(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</p> <p>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</p>	<ol style="list-style-type: none"> 1. The Working Group Meeting Session 2 discussed the following items:
Activity 13: Review of the arrangements of the EANET Secretariat and the NC	<p>(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.</p>	<p>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.</p>



OBJECTIVE-5 (CONTINUED)

ENHANCEMENT OF COOPERATION AND COLLABORATION

Core Activity	Accomplished Output (AO) (as of Sept 2021)/ Expected output (EO) (as of Dec 2021)	Implementation Status (as of Sept 2021)
Activity 14: Revision of Guidelines on Administrative and Financial Management for the Secretariat and NC taking account of the new decisions of the IG	(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 will be brought to the SAC21 and IG23.
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)	(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



OBJECTIVE-5 (CONTINUED)

ENHANCEMENT OF COOPERATION AND COLLABORATION

Core Activity	Accomplished Output (AO) (as of Sept 2021)/ Expected output (EO) (as of Dec 2021)	Implementation Status (as of Sept 2021)
Activity 16: Sharing a common understanding on atmospheric environment issues among the scientific community, such as the APCAP Science Panel	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, 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.	The NC attends the meeting of WMO to discuss metadata exchange. The NC attended the Working Group of APCAP and APCAP Science Panel Meeting. The NC attended meetings of IBAQ.
	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.
	(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



OBJECTIVE-5 (CONTINUED) ENHANCEMENT OF COOPERATION AND COLLABORATION

Non-Activity	Accomplished Output (AO) (as of Sept 2021)/ Expected output (EO) (as of Dec 2021)	Implementation Status (as of Sept 2021)
Activity 26: Providing information and policy recommendations to policymakers based on sound science and assessment	<ol style="list-style-type: none"> (EO) Science and Policy Dialogue (SPD) will be organized on 26 November 2021 in collaboration between the Secretariat and the NC. (funded by Japan) The event will be open to public 	<ol style="list-style-type: none"> The Concept Note of the SPD has been developed Due to COVID19, the event has been changed from initially planned to be organized offline to be organized online.
Activity 27: Promotion of communication, collaboration, and cooperation with other relevant international organizations, initiatives, and programs	<ol style="list-style-type: none"> (AO)The NC attended the GAW Symposium of WMO. 	<ol style="list-style-type: none"> The meetings of CLRTAP were considered to participate.
	<ol style="list-style-type: none"> (AO) The Secretariat continues to support the engagement with other partner organizations through various activities. 	<ol style="list-style-type: none"> Sharing the information with PCs

Overall, the accomplished outputs have partly met the expected goals under objective 5 through this year’s activities. Some of activities (IG23, C-WG2, SPD) need to be continued until the end of this year.



SELF-EVALUATION OF EANET ACTIVITIES IN 2020

Total: 17 Core Activities and 9 No-core Activities

