

The Twenty-Seventh Senior Technical Managers' Meeting
of the Acid Deposition Monitoring Network in East Asia
2-3 September 2026, Jakarta, Indonesia

MINUTES OF THE MEETING

I. Introduction

1. The Twenty-Seventh Senior Technical Managers' Meeting (STM27) on the Acid Deposition Monitoring Network in East Asia (EANET) was held at Center for Environmental Management Facility (EMC) on 2 September and the Ministry of Environment Office on 3 September in Jakarta, Indonesia. The meeting was hosted by the Government of Indonesia and organized by the Network Center (NC) for the EANET in collaboration with the Secretariat for the EANET.
2. Senior technical officials, who were involved in the EANET monitoring activities from Cambodia, China, Indonesia, Japan, Lao PDR, Malaysia, Mongolia, Myanmar, Philippines, Republic of Korea, Russia, Thailand, and Viet Nam, as well as the Secretariat and representatives of the NC for the EANET participated in the meeting. The List of Participants is attached as Annex.

II. The opening of the Meeting (Agenda 1)

3. The meeting was opened by the NC.
4. Ms. Sinta Saptarina Soemiarno, Head of the Center for Environmental Management Facility at the Indonesian Ministry of Environment, delivered the welcome remarks. She welcomed all participants to Indonesia and expressed appreciation for their continued commitment to strengthening regional cooperation on atmospheric deposition and air quality. She noted that Indonesia has participated in EANET since 1998 and highly values the Network as an important platform for advancing scientific knowledge, harmonizing monitoring methodologies, and supporting evidence-based policy development. She emphasized the importance of reviewing the 2025 monitoring data, Inter-laboratory Comparison Project results, and National Monitoring Plans to ensure data accuracy, reliability, and comparability and to identify capacity-building needs. She expressed appreciation to the EANET Secretariat, the Network Center, and all parties involved. She encouraged participants to engage in fruitful discussions toward cleaner air and a healthier environment across the region.
5. Ms. Rio Tomonoh, Parliamentary Vice-Minister of the Environment of Japan as the host country of this year's Intergovernmental Meeting, delivered the special remarks. She expressed her appreciation to the Government of Indonesia, the EANET Secretariat, and the Network Center for organizing the meeting and acknowledged the dedicated efforts of all participants. She emphasized that air pollution, including PM_{2.5} and transboundary pollution, remains a serious environmental challenge requiring urgent action. She shared Japan's experience in overcoming severe air pollution

through policies and environmental technologies, highlighting monitoring as the essential first step. She noted Japan's long-standing support for strengthening monitoring capacity in EANET participating countries through technical training and hands-on activities. She expressed her hope that the meeting would deepen understanding of common monitoring challenges, strengthen monitoring capacities, and further enhance regional cooperation on the atmospheric environment.

6. Dr. Toshimasa Ohara, Director General, Asia Center for Air Pollution Research (ACAP), delivered the introductory remarks. He expressed appreciation to the Indonesian colleagues for their efforts in organizing the STM meeting and emphasized the importance of monitoring as the foundation for effective atmospheric environmental management in East Asia. He explained that the meeting aimed to review EANET monitoring activities, the Data Report 2025, the Inter-laboratory Comparison Project 2025, National Monitoring Plans, capacity building, and technical guidance for VOC monitoring. He highlighted EANET's strength in over 25 years of continuous regional monitoring and its current focus on ozone, PM_{2.5}, sustainable monitoring, nitrogen management, and meteorological impacts. He also encouraged participants to discuss technical approaches to ensuring the future sustainability of EANET monitoring.

III. Election of the Officers (Agenda 2)

7. Two co-chairpersons have been elected from the PCs. The NC proposed Ms. Ngo Thi Van Anh, from Vietnam, and Ms. Retno Puji Lestari, Indonesia as co-chairpersons for the first and second day, respectively.

IV. Adoption of the Agenda (Agenda 3)

8. The Provisional Agenda (EANET/STM 27/3/1), Annotated Provisional Agenda (EANET/STM 27/3/2), and Draft Program (EANET/STM 27/3/3) were adopted as proposed.

V. Progress of EANET Activity (Agenda 4)

9. The NC and Secretariat presented the progress of the EANET's Core Activities since the Twenty-Seventh Session of the Intergovernmental Meeting on the EANET (IG27) (EANET/STM 27/4/1). The NC and Secretariat highlighted their Core Activities implemented from October 2025 until June in 2026. These included the organization of EANET meetings in 2025 and 2026 (the SAC25 and IG27 in October and November 2025 in Vientiane and Bangkok, respectively);
 - The presentation from the NC: The MTP 2026–2030 was formally adopted by IG27, with priority given to PM_{2.5}, ozone, NO_x, and ammonia, while the updated title and structure of PRSAE5 were approved and endorsed. Progress was also reported in monitoring, data quality assurance, capacity building, technical missions, data publication, and technical cooperation among participating countries. Ongoing activities included National Monitoring Plans,

nitrogen deposition, catchment monitoring, inter-laboratory comparison, and technical training. Progress in PRSAE5 development and increased use of the EANET data download system were also highlighted.

- The presentation from the Secretariat: Key activities included promoting data utilization and dissemination, strengthening outreach and communications, and supporting SAC25 and IG27, including the adoption of the MTP 2026–2030. Preparations for the 2026 Blue Sky Symposium, SAC26, and IG28 were highlighted, together with efforts to strengthen regional visibility, technical exchange, funding opportunities, and collaboration with partner organizations. Progress in communication activities, including web stories, newsletters, and the EANET 25th anniversary, was also reported. Digital outreach showed increased website use and document downloads, while further improvements in social media engagement and subscriber growth were identified.

10. The meeting was invited to discuss and provide comments, as appropriate.

11. Major discussions on this agenda included the following:

- i. The current state and future steps of the PRSAE5 were confirmed. It was informed that development of the final draft of Regional Assessment as well as Executive Summary was in progress based on the drafts submitted from Lead Authors of each chapter. For National Assessment, it was noted that reports from several countries had not yet been submitted and that participants from the relevant countries might be asked for their cooperation in this regard.

VI. Overview of the Preliminary Draft Data Report 2025 (Agenda 5)

12. The NC presented the Preliminary Draft Data Report 2025 (EANET/STM 27/5), which includes wet deposition, dry deposition (air concentration), soil and vegetation, inland aquatic environment and catchment-scale monitoring based on monitoring data submitted by the PCs. In addition, the NC proposed to discuss reconsideration of the contents of the Data Report so that its structure would better align with the priority areas of the MTP launched this year. The meeting was invited to discuss and provide comments, as appropriate.

13. Major discussions on this agenda included the following:

(Air Concentration and Dry Deposition Monitoring)

- It was pointed out that SO₂ concentration trends differed between two nearby monitoring sites in Mongolia. However, subsequent verification confirmed that the reported difference in trends was incorrect. On the other hand, it was also noted that the SO₂ concentrations themselves may differ because the two sites use different monitoring methods: automatic monitoring and filter pack monitoring.

(Wet Deposition Monitoring)

- The status of wet deposition monitoring sites in Thailand was mutually confirmed. It was confirmed that monitoring activities at Kanchanaburi have been suspended in recent years, while meteorological data have continued to be submitted. It was also noted that whether to discontinue or continue operation of this monitoring site would be discussed in the near future.

(Soil and Vegetation Monitoring)

- There was no specific discussion.

(Inland Aquatic Environment Monitoring)

- It was informed that inland aquatic environment monitoring in Indonesia started from 2026.
- It was confirmed that inland aquatic environment monitoring in Cambodia was ongoing, but probably due to rearrangement of the related persons, the report was not submitted. The situation will be confirmed and shared with the NC.
- It was informed that for Philippines, the inland aquatic environment monitoring data for Lake Pandin have been submitted and those for Lake Ambulalakaw would be submitted on or before 30 September 2026.

(Catchment-scale Monitoring)

- There was no specific discussion.

(Reconsideration of the contents of the Data Report)

- It was confirmed that there was no objection to switching the order of the chapters on wet deposition and air concentration/dry deposition in Data Report 2025.
- NC proposed the rearrangement of the detailed structure and contents of the Data Report from next year onwards. It was requested that all target items covered in Data Report 2025 should be retained in the Data Report even after the proposed restructuring.

14. The countries which have not submitted their monitoring data for 2025 or which require data modifications, were requested to submit their data to the NC as early as possible.
15. The updated draft Data Report 2025 will be submitted to the Twenty-sixth Scientific Advisory Committee Meeting on the EANET (SAC26) for consideration and adoption. The results of discussions on reconsideration of the contents of the Data Report will be reported at the SAC26 for further discussions.

VII. Evaluation for the Results of the Inter-laboratory Comparison (ILC) Projects 2025 (Agenda 6)

16. The NC presented the preliminary draft Report on the Inter-laboratory Comparison Projects in 2025 for wet deposition, dry deposition (filter pack method), soil and inland aquatic environment

(EANET/STM 25/6). The PCs were requested to submit the results of the Inter-laboratory Comparison (ILC) Projects by the usual deadline, which is end of February every year. Also, the PCs which had not submitted the 2025 ILC data were requested to submit their data as soon as possible, to complete the ILC Project Report 2025 for consideration and adoption at SAC26. The meeting was invited to discuss and provide comments.

17. Major discussion on this agenda included the following:

(20th ILC Project on Dry Deposition)

- There was no specific discussion.

(28th ILC Project on Wet Deposition)

- There was no specific discussion.

(26th ILC Project on Soil)

- There was no specific discussion.

(25th ILC Project on Inland Aquatic Environment)

- Concern was raised about the potential deterioration of samples due to storage conditions and temperature, given the time required for samples sent by the NC to reach the participating countries. It was explained that wet deposition samples were considered less susceptible to such effects because of their relatively high concentrations. For low-concentration IAE samples, an experiment in which the samples were stored at room temperature for several weeks showed that they remained relatively stable.

18. For the countries which have not submitted the ILC 2025 data to the NC or require data modifications, it was requested the data to be submitted to the NC as early as possible. The announcement of call for submission of the data for the ILC 2026 has been sent to QA/QC managers. The NC requested the QA/QC managers to acknowledge the email and answer the survey. Based on the questionnaire, NC will distribute the ILC samples in 2026 around November and December 2026. Because the schedule of distributing the ILC samples falls behind, NC will request participating laboratories to carry out analysis as early as possible.

VIII. Consideration of the National Monitoring Plans (NMPs), Current Monitoring Activities for the EANET Monitoring and Overall Air Concentration Monitoring Status of the Participating Countries (Agenda 7)

19. Each representative of the PCs delivered presentations on their NMPs and the current EANET activities, including monitoring capacities, technical problems, future plans etc., for improvement of the EANET activities. The NC requested the PCs to submit the NMPs as early as possible. (EANET/STM 27/7).

20. The meeting was invited to review the above matters and to discuss their experiences and knowledge to solve an issue which could limit their future innovation.

21. Major discussion on this agenda included the following:

i. Cambodia

- It was confirmed that Siem Reap was not included in the NMP 2026.
- It was informed that Cambodia planed to install the filter pack again, but the details had not been finalized.
- It was informed that the current monitoring site had been affected by construction and that a suitable location for re-installation of the equipment was still being considered.
- It was requested to all participating countries that any relocation of a monitoring site, even a minor one, be reported to the NC together with the reason for the relocation.

ii. China

- It was requested by the NC that hourly ozone monitoring be submitted for further analysis. It was informed that consultation with the institute was necessary.

iii. Indonesia

- It was confirmed that the new name and site code of the new Bandung site need to be assigned, and the NC recommended using a name related to its location rather than the name of the institute.
- It was reported that passive sampler monitoring was initiated at the Bandung site this year.

iv. Japan

- It was confirmed that there is no PM_{2.5} monitoring data for the Tokyo site because only filter pack and wet deposition monitoring were conducted at the Tokyo site.
- It was suggested that ozone concentrations in Japan are affected not only by local sources but also by background ozone. Therefore, it is necessary to distinguish between local and background contributions to better understand ozone levels in Japan. In this context, the EANET monitoring in Japan plays an important role in evaluating background ozone levels.

v. Lao PDR

- There was no specific discussion.

vi. Malaysia

- It was reported that passive sampler monitoring can be included at least after next year and not included in NMP 2026.
- It was informed that the NC was planning a new project using passive sampling for NH₃ and

would invite Malaysia to participate.

vii. Mongolia

- It was confirmed that the new site name and site code need to be assigned to the current Terelj site which was moved from the old Terelj site (MNA002) in 2025.

viii. Myanmar

- It was confirmed that “AQM65” is the government plans to install low-cost sensors (LCSs).

ix. Philippines

- It was reported that the Metro Manila - Manila Observatory site was moved to Ateneo de Manila University, and the new site started monitoring from April 2026. Therefore, the new site name and site code need to be assigned.
- It was confirmed that the possibility of collaboration on a new VOC related project would be discussed after the meeting.

x. Republic of Korea

- It was suggested that the reason of increase of pH from 2024 to 2025 be confirmed.
- It was confirmed that the increasing trend in ozone concentration was based on nationwide ambient air quality monitoring results. It was recommended that ozone trends observed through EANET monitoring and national ambient air quality monitoring be compared, as they are more closely associated with background and local influences, respectively.

xi. Russia

- It was reported that there is no difference between NMP 2025 and 2026.
- It was confirmed that monitoring at the Mondy site was still suspended due to ongoing construction work, but it was recommended that the resumption of monitoring at Mondy be considered.

xii. Thailand

- It was pointed out that there is no definition of “sub-urban” in the classification for the EANET monitoring site and at this stage, the monitoring site should be classified as urban or rural.
- It was recommended that the definition of the site classification for the EANET be adjusted considering the actual situation.
- It was recommended that the Khanchanabri site be retained in the NMP despite the suspension of monitoring activities, as it is difficult to officially designate new EANET monitoring sites.

xiii. Viet Nam

- Possible factors contributing to the low pH and high NO_3^- concentrations observed at Hoa Binh site during January– March were discussed. It was noted that similarly low pH values were

observed at Yen Bai site (also rural site in Northern part of Vietnam) and that there was currently no clear evidence of impacts from local emission sources. Possible influences of nitrogen inputs, low rainfall, and sample contamination were also mentioned.

- It was reported that the PM_{2.5} monitoring at Hoa Binh had discontinued due to broken equipment since August 2025 and that the PM_{2.5} monitoring equipment would be relocated to Hanoi for convenience in operation and maintenance. It was also reported that the PM_{2.5} monitor is in repair process, therefore the monitoring in Hanoi has not yet started.

xiv. Summary of the National Monitoring Plans in the PCs

- The NC presented the summary of the National Monitoring Plans and confirmed the current status of the monitoring activities in the respective countries.
- The results of discussions on each country will be reflected to the revised Summary of the National Monitoring Plans in PCs that will be reported at the Twenty-Sixth Science Advisory Committee held in Malaysia in October 2026.

IX. Information Sharing of the EANET Activities and Related Discussions (Agenda 8)

22. The NC delivered two presentations sharing their progress and outcome of the EANET Core and Project activities related to capacity building activities in the EANET. The first one is about the re-framing of the EANET capacity building, and the second one is about the technical training guidance for VOC monitoring in the EANET. All participants were invited to discuss, provide comments, observations, and insights.

23. Major contents of presentation and discussion on the re-framing of the EANET capacity building included the following:

- i. There was no specific discussion.

24. Major contents of presentation and discussion on the technical training guidance for VOC monitoring in the EANET included the following:

- i. There was no specific discussion.

X. Other Issues (Agenda 9)

25. There were no specific agenda items.

XI. Closing of the Meeting (Agenda 10)

26. On behalf of the Secretariat for the EANET, Ms. Yujeong Kim, United Nations Environment Programme, Asia and the Pacific Office, delivered the Closing Remarks. She expressed her sincere appreciation to all participants for their active engagement and valuable contributions and thanked

the Government of Indonesia, the Ministry of Environment, and the Network Center for their excellent arrangements, hospitality, and support. She summarized the key discussions, including EANET's progress since STM26, the preliminary Data Report, the Inter-laboratory Comparison Project, National Monitoring Plans, capacity building, and technical guidance for VOC monitoring. She emphasized the importance of maintaining high-quality, comparable, and scientifically robust monitoring data and commended participating countries for their continued commitment to monitoring and regional cooperation. She encouraged continued contributions to future EANET meetings and activities.

27. Ms. Sinta Saptarina Soemiarno, Head of the Center for Environmental Management Facility at the Indonesian Ministry of Environment, delivered the Final Remarks. She expressed sincere appreciation to all participants for their active participation, valuable contributions, and continued commitment to regional environmental cooperation. She noted that it was a great pleasure and privilege for Indonesia to host the STM and expressed hope that participants had a productive and enjoyable meeting. She emphasized the importance of continuing and strengthening partnerships and cooperation among EANET participating countries and expressed Indonesia's expectation for further technical cooperation. She also thanked all participants and relevant organizations for their contributions to the successful meeting and expressed her appreciation for the opportunity to host the meeting in Indonesia.

28. The Meeting was officially closed.

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