

The Twentieth Session of the Scientific Advisory Committee  
on the Acid Deposition Monitoring Network in East Asia  
23-24 September 2020, Virtual Meeting

## **CONSIDERATION OF IMPROVEMENT OF THE TECHNICAL GUIDELINES AND MANUALS OF THE EANET**

### **I. INTRODUCTION**

1. As of today, the EANET has developed 12 different Guidelines, Manuals, and Strategy Papers for monitoring activities, laboratory analysis, etc. However, among the 12 documents, only two Manuals, namely the Technical Manual for Air Concentration Monitoring in East Asia and the Technical Manual on Dry Deposition Flux Estimation in East Asia, have undergone the revision by the Expert Group on the revision of the Technical Manuals for Dry Deposition Flux Estimation and Air Concentration Monitoring and the Expert Group on the revision of the Technical Manuals for Dry Deposition Flux Estimation and Air Concentration Monitoring respectively in order to elaborate the monitoring methods. To date, the Guidelines for Acid Deposition Monitoring in East Asia have not been released for a long time, and the contents are no longer suitable for the current EANET activities due to different needs and priorities.

### **II. OBJECTIVE**

2. To review the purposes, target audience, concept, frequency, and administrative arrangements, and in line with the development of the MTP (2021-2025), the NC proposes the Consideration of Improvement of the EANET Technical Guidelines and Manuals. This consideration could be discussed in the SAC20 from scientific and technical viewpoints. Subsequently, the SAC Members could recommend to the IG22 Members proposed actions in this Report to be reflected in the MTP (2021-2025).

### **III. CONSIDERATION OF IMPROVEMENT OF THE TECHNICAL GUIDELINES AND MANUALS OF THE EANET**

3. In Section III of this Report, the NC provides mechanism on how to improve the effectiveness and efficiency of the EANET technical Manuals and Guidelines starting from the implementation of MTP (2021-2025).

**CONSIDERATION OF IMPROVEMENT OF THE TECHNICAL GUIDELINES AND MANUALS OF THE EANET**

<b>The Main Charge of Dept. of the NC</b>	<b>Title of Technical Guidelines and Manuals</b>	<b>Purpose</b>	<b>Target Audience</b>	<b>The Concepts</b>	<b>Update Frequency</b>	<b>Required Time for Updating</b>	<b>Recommendation</b>
Atmospheric Research Dept.	Technical Manual for Air Concentration Monitoring in East Asia	To measure the concentration of gas and particulate pollutants by a unified method and use it as a working guideline for field personnel	Persons in charge of domestic centers in EANET Participating Countries, QA/QC managers, measurement stations, laboratory personnel	Describes monitoring point selection methods, measurement station maintenance methods, air concentration measurement methods, data collection methods, and quality control methods	First edition in 2010 The second edition planned in 2022	2 years	Under the revision
Atmospheric Research Dept.	Technical Manual for Wet Deposition Monitoring in East Asia -2010	To measure the concentration of precipitation components by a unified method and use it as a working guideline for field personnel	Persons in charge of domestic centers in EANET Participating Countries, QA/QC managers, measurement stations, laboratory personnel	Describes methods for selecting monitoring points, measuring precipitation component concentrations, data collection methods, and managing quality	First edition in 2000 The second edition in 2010	2 years	Will be revised if needed
Atmospheric Research Dept.	Technical Manual for Dry Deposition Flux Estimation in East Asia -2010	To establish a method for estimating dry deposition by a unified method and use it as a working guideline for field personnel	Persons in charge of domestic centers in EANET Participating Countries, QA/QC managers, measurement stations, laboratory personnel	Describes the selection of monitoring points, air concentration measurement method, dry deposition calculation method, data collection methods	First edition in 2010 The second edition planned in 2022	2 years	Under the revision

Atmospheric Research Dept.	Strategy Paper on Future Direction of Monitoring for Dry Deposition of the EANET	To show future dry deposition monitoring efforts in accordance with the guidelines and share them among EANET Participating Countries	National focal points of EANET Participating Countries, personnel in charge of domestic centers, QA/QC managers, measurement stations, personnel in field and laboratories	Describes listed items to be implemented regarding the expansion of dry deposition monitoring and refinement of dry deposition estimation, and shows specific implementation items and implementation period	2005 First Edition 2010 Second Edition 2015 3rd edition 2020 4th edition planned	2 years	Will be revised if needed
Atmospheric Research Dept.	Guidelines for Acid Deposition Monitoring in East Asia	To show guidelines for overall EANET monitoring and share them among EANET Participating Countries (expansion of targets from acid deposition in the second version)	National focal points of EANET Participating Countries, personnel in charge of domestic centers, QA/QC managers, measurement stations, personnel in field and laboratories. in addition, users of EANET data	Describes the setting standards for monitoring points, wet deposition, dry deposition, soil vegetation, inland aquatics monitoring, QA/QC, and data reporting implementation standards	First edition in 2000 The second edition planned in 2022	2 years	Need revision
Data Management Dept.	Quality assurance/ Quality control (QA/QC) Guidebook for Acid Deposition Monitoring Network in East Asia – 2016	To specify the overall QA/QC activities in EANET and to show how to create information required for QA/QC activities	Staffs in charge of EANET activities in the national center of Participating Countries, QA/QC manager, and staffs in monitoring stations and laboratories	Describes the general items required for implementing QA/QC activities, how to create a national monitoring plan, and how to conduct the audit for monitoring stations and laboratories	The first edition in 2016	Two years	Will be revised if needed

Data Management Dept.	Data Reporting Procedures and Formats for Acid Deposition Monitoring in East Asia	Provides a description format of information necessary for EANET Participating Countries to submit data to the Network Center	Staffs in charge of sample analysis and QA/QC activities for the monitoring in EANET Participating Countries	Provide reporting format of site information and data submission related to EANET monitoring	Created in March 2000, not updated	No plan	Will be revised if needed
Ecological Impact Research Dept.	Technical Manual for Soil and Vegetation Monitoring	To standardize sampling and analytical methods for soil and vegetation monitoring	Persons in charge of field surveys, laboratory analysis, and QA/QC activities for monitoring in the EANET countries.	Describes the objectives of monitoring, site selection, measurement items, field surveys including sampling, chemical analysis, data reporting, and quality control procedures, etc.	March 2000, First edition	-	Will be revised if needed
Ecological Impact Research Dept.	Sub-manual for forest vegetation monitoring in EANET	To show additional information on vegetation monitoring methods in forest area	Persons in charge of field surveys, laboratory analysis, and QA/QC activities for monitoring in the EANET countries.	Describes the additional information on the survey on tree decline, measurement methods for air pollutant concentration/deposition in forest area and contents in tree leaves, and quality control procedures, etc.	October 2006 (as a supplementary document for the existing manual)	-	Will be revised if needed
Ecological Impact Research Dept.	Technical Manual for Inland Aquatic Environment Monitoring in East Asia-2010	To standardize sampling and analytical methods for inland aquatic environmental monitoring	Persons in charge of field surveys, laboratory analysis, and QA/QC activities for monitoring in the EANET countries.	Describes the objectives of monitoring, site selection, measurement items, field surveys including sampling, chemical analysis, data reporting, and quality control procedures, etc.	2000, First edition, 2010, Second edition	-	Will be revised if needed

Ecological Impact Research Dept.	Guideline for Catchment-scale Monitoring in East Asia	To show guidelines for catchment-scale monitoring methods.	Persons in charge of field surveys, laboratory analysis, and QA/QC activities for monitoring in the EANET countries.	Describes the objectives of monitoring, and guidelines for site selection, measurement items. Detailed methods of sampling and chemical analysis can be referred to as other existing manuals.	2010, First edition	-	Will be revised if needed
Ecological Impact Research Dept.	Strategy Paper on Future Direction of Monitoring of Effects on Agricultural Crops, Forest and Inland Water by Acidifying Species and Related Chemical Substances	To show future direction of monitoring on ecological impacts in EANET and share the strategy among the EANET countries.	National focal points of EANET Participating Countries, personnel in charge of domestic centers, QA/QC managers, field surveyors, and relevant scientists.	Originally described the direction of soil and vegetation monitoring. Currently, describes the future direction of monitoring on ecological impacts more comprehensively and also research directions.	2002, First 2008, Second 2014, Third 2020, Fourth	2 years	Will be revised if needed

\* All EANET Technical Guidelines and Manuals are available on EANET website.

\* This expert group meeting was held for review and updating the technical manual for inland aquatic environment monitoring in East Asia-2010.