

The Tenth Senior Technical Managers' Meeting  
of the Acid Deposition Monitoring Network in East Asia  
26-28 August 2009, Pathumthani, Thailand

## **Progress report on revision of the Technical Manual on Inland Aquatic Environment Monitoring**

Secretariat of the Expert Group  
on revision of the Technical Manual  
on Inland Aquatic Environment Monitoring

### **I. Introduction**

1. The first meeting of the Expert Group was held at ADORC, Niigata, Japan from 26 to 27 June 2008 for revision of the Technical Manual on Inland Aquatic Environment Monitoring. Several technical and editorial subjects to be reflected to the revised Technical manual were identified at the first meeting. The **revised table of contents and contributors for each chapter or section** were decided based on discussions at the first meeting.

### **II. Subjects reflected to the revised table of contents**

2. In the revised table of contents, the following recommendations at the first meeting were taken into consideration:
  - **Background and objectives** should be described **including the latest scientific information of acidification of rivers and lakes in East Asia.**
  - **Importance of the catchment/ watersheds** should be explained enough in detail.
  - Information on **sensitivity of soil types and geology to acid deposition** should be summarized to find an appropriate monitoring site.
  - **A standard format for properties of the monitoring sites** should be prepared showing the minimum requirements.
  - **Rivers and streams can be selected** as the monitoring site more freely. But modification on sampling frequency and measurement parameters is necessary. In case of rivers and streams, the water should be measured every one month (12 times a year) or every two months (6 times a year) at least.
  - **Clearer criteria on selection of lakes and rivers** should be described, including size of the catchment, priority among natural lake, rivers/streams, and reservoir/dam, etc.
  - **Definition and meaning of the parameters** should be clarified for surveyors and analysts.

- **Parallel measurements by the end-point pH 4.8 method and the Gran's Plots titration** method should be carried out for alkalinity.
  - The information about **effects on aquatic organisms** should be included as a reference.
  - There are two kind of acidifications; **long-term (chronic) and temporary (seasonal) acidifications**. Some explanation may be necessary on these phenomena.
3. Moreover, the following suggestions at the Eighth Session of the Scientific Advisory Committee (SAC8) were taken into consideration:
- River systems in temperate/boreal regions and tropical region may have different characteristics. It was suggested that **an appropriate expert on tropical river systems** should be invited to the expert group.
  - Conducting of frequent sampling in mountainous area may be costly. It was suggested that **efficiency of monitoring rivers or streams and site criteria should be further clarified** so that good data sets will be obtained.

### III. Preliminary draft of the revised Technical Manual

4. As one of practical actions for the suggestions above, an expert from Indonesia was newly assigned as the member of the Expert Group. The new member prepared the manuscript on "**River system in tropical areas**" as his contribution to the revised Technical Manual.
5. All the contributors including the new member were requested to prepare the manuscripts or materials according to the revised table of contents by early 2009. The NC received most manuscripts by the end of June 2009. **All the manuscripts were compiled as the preliminary draft of the revised Technical Manual** (The revised table of contents (as of August 2009) is shown in **Appendix**).
6. The preliminary draft of the revised Technical Manual was reviewed at the second meeting of the Expert Group. The preliminary draft is being elaborated based on discussions at the second meeting of the Expert Group. **The draft revised Technical Manual should be presented at SAC9 in October 2009 for further elaboration.** The final draft is expected to be presented and adopted at SAC10 in 2010.

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