

The Eleventh Session of the Scientific Advisory Committee
on Acid Deposition Monitoring Network in East Asia
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Progress report on the activities of the Task Force on Soil and Vegetation Monitoring

Chair of the Task Force

I. Introduction

1. The *Strategy Paper on Soil, Vegetation, and related Ecosystems Monitoring of EANET (2009-2014)*, which was adopted by the Scientific Advisory Committee (SAC) at its eighth session (SAC8) in 2008, clarified issues to be implemented for the objectives in the monitoring and proposed work plans for coming years. Members of the Task Force have led the activities with the support of the Network Center (NC). A role of the respective members was assigned clearly for their strong commitments as shown in Table 1.
2. No face-to-face meeting was held in 2011 since the third meeting in 2010. However, some of specific works have been promoted by several Task Force members in cooperation with NC.

II. Progress of the specific works

3. The *Strategy Paper* proposed the following activities as specific work plans:
 - 1) Development of the guidelines and methods for the catchment monitoring
 - 2) Identification of the areas susceptible to acid deposition
 - 3) Trial campaign for measurement of ozone concentration in forest area and its effects
 - 4) Promotion of catchment analysis and simulation modeling on soil and inland water
4. Development of the guidelines and methods for the catchment monitoring: The *Guideline for catchment-scale monitoring*, which was endorsed by SAC at Tenth Session (SAC10), was introduced in the Twelfth Senior Technical Managers' Meeting (STM12) in 21-22 September 2011 after final checking by the Task Force members. It is expected that the catchment-scale monitoring will be promoted in the EANET participating countries utilizing the guideline. Japan has already submitted their existing data on catchment-scale monitoring in Lake Ijira Catchment to NC for the *Data Report 2010*. The monitoring there was harmonized with the guideline descriptions. Moreover, Philippines has already started preliminary activities for the catchment-scale monitoring in La Mesa Watershed in Metro Manila in the 3rd quarter of 2011.

5. Identification of the areas susceptible to acid deposition: The acid-sensitive areas were visualized using GIS software. The map was updated based on combination of soil and geological features. The questionnaire survey on tree decline symptoms was not conducted according to suggestions at SAC10.
6. Trial campaign for measurement of ozone concentration in forest area and its effects: Task Force members tried to obtain the budget for trial campaign on ozone from competitive research grants several times since last year. Unfortunately, the application has not been accepted. Continuous efforts will be done to obtain grants for this work.
7. Promotion of catchment analysis and simulation modeling on soil and inland water: The work has been promoted as the joint research projects in Japan, Thailand and Malaysia, by using the research grants. One of the research grants was finished in the end of March 2011, and therefore the surveys have been reduced. Some of the Task Force members and NC are applying to research grants for promotion of the work. The proposal to “Asia-Pacific Network for Global Change Research (APN)” for the project in Japan, Thailand and Malaysia has just passed the 1st stage and proceeded to the 2nd Stage for further reviewing. The Chair of the Task Force and NC are also applying to Sumitomo Foundation for an additional study in La Mesa Watershed, Philippines. Moreover, NC started a joint study on biogeochemical model with Dr. Junko Shindo, National Institute for Agro-Environmental Sciences (NIAES). The study must be informative for evaluation of the catchment-scale data in the EANET participating countries.

Table 1. Leaders and cooperative members for the specific activities

Activities	Leader	Cooperative members
Promotion of continuous monitoring	-	All
Improvement of monitoring system	-	All
Compilation of the list of experts on ecological impacts in the respective countries	-	All
Promotion of capacity building activities	-	All
Development of the guidelines and methods for the catchment monitoring	Dr. Jesada	Dr. Takahashi, Dr. Sase, Dr. Carandang
Identification of the areas susceptible to acid deposition	Dr. Takahashi	Dr. Liu, Dr. Kim, Dr. Ocampo, Dr. Mikhailova
Trial campaign for measurement of ozone concentration in forest area and its effects	Dr. Carandang	Dr. Mikhailova, Dr. Makmom, Mr. Bopit, Dr. Sase
Promotion of catchment analysis and simulation modeling on soil and inland water	Dr. Sase	Dr. Takahashi, Mr. Bopit, Prof. Nik