

Overview of National Monitoring Plans(2007)

Network Center for EANET

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Procedures (1)

In the “Work Program and Budget in 2007 for EANET” (EANET/IG 8/11 13) adopted at the Eight Session of the Intergovernmental Meeting (IG8), **the participating countries are requested to revise the national monitoring plans where appropriate** based on the experience obtained in previous years and scientific advice at the Fifth Session of the Scientific Advisory Committee(SAC5).

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Procedures (2)

Revised plans will be submitted to the Network Center(NC) with the necessary information in accordance with Technical Documents for EANET to be presented at the Eighth Senior Technical Manager’s meeting(STM8).

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Basic Components of Each Participating Countries’ National Monitoring Plans

- Monitoring items(see [the summary table in the document](#))
- Monitoring parameters and methods including monitoring frequency(see [the summary, table 1-4 in the document](#))
- Monitoring sites and their information (Refer the “Data Reporting Procedures and Formats for EANET, March 2000”)

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Summary of National Monitoring Plan

Country	Revision/Submission	Country	Revision/Submission
Cambodia	2005(revised)	Myanmar	2006
China	2006(revised)	Philippines	2002
Indonesia	2006(revised)	Republic of Korea	2007(revised)
Japan	2007(revised)	Russia	2006(revised)
Lao PDR	2007(revised)	Thailand	2007(revised)
Malaysia	2006(revised)	Viet Nam	2007(revised)
Mongolia	2001		

See CD titled “The National Monitoring Plans of the Participating Countries for EANET”

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The monitoring situations in each participating countries for mandatory items(1)

- Wet deposition;
 - All participating countries (except Myanmar) are carrying out all of mandatory items.
 - Some country(namely;China,Malaysia, Russia, Thailand) analyzes optional items.
 - F, HCOOH, CH₃COOH, (COOH)₂, HCO₃⁻, NO₂⁻, Br⁻ etc..**
- Dry deposition;
 - Dry deposition monitoring is carrying out by 2 method
 - Automatic monitoring method
 - Filter Pack monitoring method

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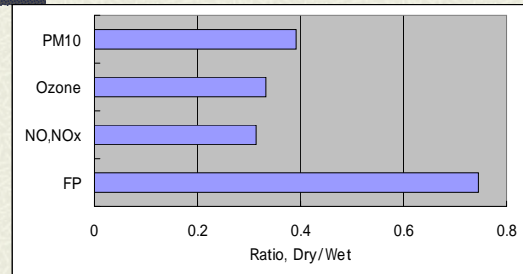
*PERIODIC REPORT ON THE STATE OF ACID DEPOSITION IN EAST ASIA
-EXECUTIVE SUMMARY-*

The filter pack method of measurement has not yet been implemented in China, however, and measurement of NOx and other compounds has yet not been standardized among EANET sites. It is thus **difficult to draw any comprehensive picture** regarding the present state of air pollution on the regional scale, as it is **difficult to accurately determine the contribution from dry deposition** based on the information currently available.

Priority of the chemical species for dry deposition monitoring in EANET
(Strategy Paper for Future Direction of Dry Deposition Monitoring of EANET)

- (**First Priority**
 - ü SO₂, O₃, NO, NO₂(urban), HNO₃, HCl, NH₃
 - ü Particulate component (SO₄²⁻, NO₃⁻, Cl⁻, NH₄⁺, Na⁺, Mg²⁺, K⁺, and Ca²⁺), PM10
- (**Second Priority**
 - ü NO₂(rural and remote), PM2.5

Comparison of the Site Number on Dry/Wet Deposition



The monitoring situations in each participating countries for mandatory items(2)

- ✦ **Soil & Veg. monitoring;**
 - Some country doesn't have two monitoring forests whose soil have different sensitivity for acid deposition.
 - In soil & forest monitoring, some country doesn't analyze mandatory items.
- ✦ **Inland aquatic environment;**
 - Many participating countries doesn't monitor the mandatory items.
 - Some country's monitoring sites have high alkalinity (>0.2meq/L) and high electric conductivity (>10mS/m).

Sampling Plan/Schedule on Soil and Vegetation Monitoring in the individual Sites 2006-2011

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Table. Summary of sampling plan/schedule in the individual monitoring sites 2006-2011

Review of National Monitoring Plans (1)

- ✦ As of 31 July 2007, five participating countries (Namely; **Japan, Lao-PDR, Republic of Korea, Thailand, Viet Nam**) submitted their revised national monitoring plans to NC.

*Review of National Monitoring Plans(2)
- New Monitoring Sites -*

- ✦ **Monitoring Site on Wet and Dry Deposition**
 - Japan:Tokyo
 - Philippines: Mt. St. Tomas
 - Thailand: Nakhon Ratchasima Province (Sakaerat Silvicultural Research Station)

Wet monitoring sites

Total sites;51

Country	Number of Sites	Classification	Country	Number of Sites	Classification
Cambodia	1	Urban:1	Myanmar	1	Urban:1
China	9	Urban:5	Philippines	3	Urban:1
		Rural:2			Rural:1
		Remote:2			Remote:1
Indonesia	4	Urban:2	Republic of Korea	3	Rural:2
		Rural:1			Remote:1
Japan	12	Urban:2	Russia	4	Urban:1
		Rural:1			Rural:2
		Remote:9			Remote:1
Lao PDR	1	Urban:1	Thailand	6	Urban:2
Malaysia	3	Urban:1			Remote:2
Mongolia	2	Urban:1	Viet Nam	2	Urban:1
		Remote:1			Remote:1

Location of Monitoring Sites on Wet and Dry Deposition



Dry monitoring sites

Total sites;39

Country	Number of Sites	Classification	Country	Number of Sites	Classification
China	4	Urban:2	Philippines	3	Urban:1
		Rural:2			Rural:1
Indonesia	1	Rural:1	Republic of Korea	3	Remote:1
Japan	11	(FP:1)			Rural:2
		Urban:2	(FP/AT:3)	Remote:1	
		Rural:1	Russia	4	Urban:1
Malaysia	3	Urban:1	Thailand	6	Rural:2
		Remote:8			(FP:4,AT:1)
Malaysia	3	Urban:1	Thailand	6	Urban:2
(FP:3)	Remote:2	Rural:2			
Mongolia	2	Urban:1	Viet Nam	2	Urban:1
		Remote:1			(FP:2)

Soil and Vegetation monitoring sites

Total sites;18

Country	Number of Sites	Classification	Country	Number of Sites	Classification
China	4	Urban: 1	Philippine	1	Rural: 1
		Rural: 1			Remote: 1
		Remote: 2	Republic of Korea	1	Rural: 1
Indonesia	1	Rural: 1	Russia	4	Urban: 1
Japan	2	Urban: 1			Rural: 2
Japan	2	Rural: 1	Thailand	1	Remote: 1
		Remote: 2			Remote: 1
Malaysia	2	Urban: 1	Thailand	1	Remote: 1
Rural: 1	Viet Nam	1			Rural: 1
Mongolia	1	Urban: 1			

Inland Aquatic monitoring sites

Total sites;15

Country	Number of Sites	Classification	Country	Number of Sites	Classification		
China	4	Urban:1	Malaysia	1	Rural:1		
		Rural:1			Mongolia	1	Remote:1
		Remote:2			Philippines	2	Rural:2
Indonesia	1	Rural:1	Russia	2	Rural:1		
Japan	2	Urban:1	Thailand	1	Remote:2		
		Rural:1	Viet Nam	1	Rural:1		

Finally

Following my presentation, more detail monitoring plans will be presented by each participating countries.

Thank you for your attention !