

**Acid Deposition Monitoring Network
in East Asia (EANET)**

Data Report 2008

December 2009

Network Center for EANET

Table of Contents

	Page
Chapter 1: Introduction	1
Chapter 2 : Network Description	5
Chapter 3 : Wet Deposition Monitoring	13
3.1 Method	15
3.1.1 Field Operation	16
3.1.2 Laboratory Operation	16
3.1.3 Data Management	16
3.1.4 Meteorological Measurement	17
3.1.5 Overview of the Statistics and Definition	18
3.1.6 Terms and Abbreviations	21
3.1.7 Monitoring Sites	22
3.2 Results of Monitoring	25
Chapter 4 : Dry Deposition (Air Concentration) Monitoring	145
4.1 Method	147
4.1.1 Automatic Monitoring Method	147
4.1.2 Filter Pack Method	147
4.1.3 Monitoring Sites	147
4.2 Results of Monitoring	152
Chapter 5 : Soil and Vegetation Monitoring	205
5.1 Method	207
5.1.1 Field Operation	207
5.1.2 Laboratory Operation	209
5.1.3 Monitoring Sites	210
5.2 Results of Monitoring	211
Chapter 6 : Inland Aquatic Environment Monitoring	247
6.1 Method	249
6.1.1 Selection of Sampling Sites	249
6.1.2 Field Operation	249
6.1.3 Laboratory Operation	250
6.1.4 Monitoring Sites	251
6.2 Results of Monitoring	252
Appendix I Overview of Data Report 2008	291
Appendix II Meteorological Statics at the Monitoring Sites	299

CHAPTER 1

Introduction

1. Introduction

The Acid Deposition Monitoring Network in East Asia (EANET) was established as an initiative for regional cooperation among the participating countries, creation of a common understanding on the state of acid deposition problems and for providing useful inputs to policy makers at various levels.

Monitoring activities started during the preparatory phase activities of EANET from March 1998 to December 2000. Regular monitoring of acid deposition started from January 2001 with the participation of 10 countries, namely China, Indonesia, Japan, Malaysia, Mongolia, Philippines, Republic of Korea, Russia, Thailand, and Viet Nam. Cambodia, with Lao PDR and Myanmar joining EANET in 2001, 2002 and 2005 respectively, there are currently 13 countries participating in EANET activities.

Acid deposition monitoring of EANET covers four environmental items – wet deposition, dry deposition (air concentration), soil and vegetation, and inland aquatic environment. Monitoring of wet and dry deposition has been implemented in order to measure atmospheric concentrations and to evaluate fluxes of acidic substances to the land surface, while monitoring for soil/vegetation and inland aquatic environment was carried out to assess adverse impacts on terrestrial and aquatic ecosystems. The monitoring data was used to evaluate the state of acid deposition as well as impacts on ecosystems.

Participating countries are required to submit the data and related information obtained from the monitoring activities conducted at the EANET sites in their respective countries to the Network Center of EANET (NC) by the end of June of each calendar year based on the guidelines of EANET. The NC had prepared and presented a draft Data Report 2008, which contains the monitoring data from the participating countries at the Ninth Session of Scientific Advisory Committee (SAC9), held in October 2009. The draft Data Report was considered at SAC9 by the experts from participating countries. Following the comments and guidance at SAC9, NC has elaborated and finalized the report.

The Data Report 2008 contains the data obtained from monitoring activities carried out in 2008.

CHAPTER 2

Network Description

2. Network Description

2.1 Classification of Monitoring Sites

EANET monitoring sites are classified into two basic categories, namely acid deposition monitoring sites and ecological survey sites. Acid deposition monitoring sites are sites collecting fundamental data on the temporal and spatial distribution of acid deposition, and they are further classified into 3 sub-categories: remote sites, rural sites and urban sites for the objectives of the monitoring. Ecological survey sites are those that provide basic data for assessing the effects of acidification on terrestrial ecosystems, and they are further classified into 2 sub-categories: survey sites and ecosystem analysis sites. The criteria used for classification of the sites are presented in Table 2.1.

Table 2.1 Classification of Monitoring Sites

Site Category	Site Classification	Main Purpose and Siting Criteria
Acid Deposition Monitoring Site for wet deposition and dry deposition monitoring	Urban Site	<ul style="list-style-type: none"> - Assessment of the state of acid deposition in urban areas - Urbanized and industrial areas, and the areas immediately outside the urban area - Data can be used for evaluation of acid deposition effect on buildings and historical monuments or human health
	Rural Site	<ul style="list-style-type: none"> - Assessment of the state of acid deposition in rural areas and/or hinterlands - Data can be used for the evaluation of acid deposition on agricultural crops, forests and etc. - More than 20km apart from large pollution sources like cities, power plants and highways
	Remote Site	<ul style="list-style-type: none"> - Assessment of the state of acid deposition in background areas - Data can be used for evaluation of long-range transport and deposition models - More than 50km apart from large pollution sources like cities, power plants and highways - More than 500m apart from main roads (more than 500 vehicles per day)
Ecological Survey Site for soil and vegetation monitoring and Inland aquatic monitoring	Basic survey site	<ul style="list-style-type: none"> - Accumulation of basic data on soil, forest, and inland aquatic environment and disclose trends in their properties - In the vicinity of the acid deposition monitoring site
	Ecosystem analysis site	<ul style="list-style-type: none"> - Assessment of acid deposition impacts on whole ecosystem through application of terrestrial ecosystem analysis and/or catchment analysis - Sensitive Areas to changes in atmospheric acidity and ecologically conserved area

2.2 Monitoring activities in 2008

Thirteen EANET countries, namely, China, Japan, Mongolia, Republic of Korea and Russian Federation of the North-East Asian region, and Cambodia, Indonesia, Malaysia, Myanmar, Lao PDR, Philippines, Thailand and Vietnam participated in monitoring of acid deposition in 2008. Monitoring data was submitted from a total of 52 monitoring sites, including 19 remote, 13 rural and 20 urban sites. A map showing the location of these sites is provided in [Figure 2.1](#). The details on the location of the monitoring sites are presented in [Table 2.2](#).

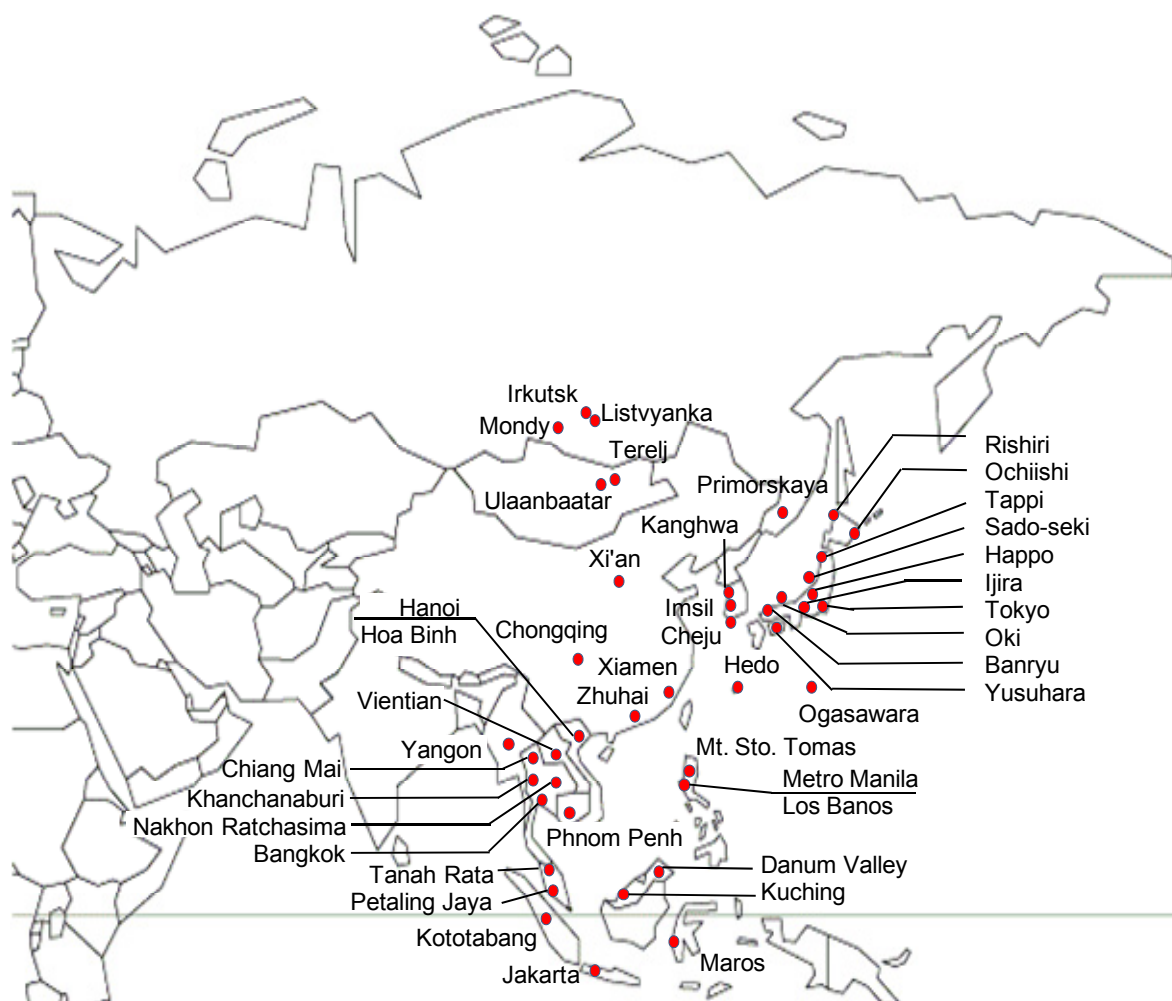


Figure 2.1 Locations of EANET Sites in 2008

(Note) “Xi’an”, “Chongqing”, “Xiamen”, and “Zhuhai” includes 2 sites, respectively. “Jakarta” includes also nearby “Serpong” and “Bandung” sites, and “Bangkok” includes also nearby “Samutprakarn” and “Patumthani” sites. “Metro Manila”/“Los Banos” and “Hanoi”/“Hoa Binh” are described as one point, respectively due to map scale. Khao Lam Dam and Vachiralongkorn Dam (of earlier Data Reports in 2000-2003) were renamed into Khanchanaburi and also Mae Hia was renamed into Chiang Mai in 2004.

Table 2.2 Locations of EANET Wet and Dry Deposition (Air Concentration) Monitoring Sites

Country	Name of sites	Characteristics of sites	Latitude	Longitude	Ht. above sea level
Cambodia	Phnom Penh	Urban	11° 33' N	104° 50' E	10m
China	Chongqing-Haifu	Urban	29° 37' N	106° 30' E	317m
	- Jinyunshan	Rural	29° 49' N	106° 22' E	800m
	Xi'an - Shizhan	Urban	34° 14' N	108° 57' E	400m
	- Jiwozi	Remote	33° 50' N	108° 48' E	1,800m
	Xiamen - Hongwen	Urban	24° 28' N	118° 08' E	50m
	- Xiaoping	Remote	24° 51' N	118° 02' E	686m
	Zhuhai - Xiang Zhou	Urban	22° 16' N	113° 34' E	40m
- Zhuxiandong	Urban	22° 12' N	113° 31' E	45m	
Indonesia	Jakarta	Urban	6° 11' S	106° 50' E	7m
	Serpong	Rural	6° 15' S	106° 34' E	46m
	Kototabang	Remote	0° 12' S	100° 19' E	864m
	Bandung	Urban	6° 54' S	107° 35' E	743m
	Maros	Rural	4° 55' S	119° 34' E	11m
Japan	Rishiri	Remote	45° 07' N	141° 12' E	40m
	Ochiishi	Remote	43° 09' N	145° 30' E	49m
	Tappi	Remote	41° 15' N	140° 21' E	105m
	Sado-seki	Remote	38° 14' N	138° 24' E	136m
	Happo	Remote	36° 42' N	137° 48' E	1,850m
	Ijira	Rural	35° 34' N	136° 41' E	140m
	Oki	Remote	36° 17' N	133° 11' E	90m
	Banryu	Urban	34° 41' N	131° 48' E	53m
	Yusuhara	Remote	33° 22' N	132° 56' E	790m
	Hedo	Remote	26° 52' N	128° 15' E	60m
	Ogasawara	Remote	27° 05' N	142° 13' E	230m
	Tokyo	Urban	35° 41' N	139° 45' E	47m
Lao PDR	Vientiane	Urban	17° N	102° E	
Malaysia	Tanah Rata	Remote	04° 28' N	101° 23' E	1,470m
	Petaling Jaya	Urban	03° 06' N	101° 39' E	87m
	Danum Valley	Remote	04° 59' N	117° 51' E	427m
	Kuching	Urban	01° 29' N	110° 28' E	22m
Mongolia	Ulaanbaatar	Urban	47° 54' N	106° 49' E	1,282m
	Terelj	Remote	47° 59' N	107° 29' E	1,540m
Myanmar	Yangon	Urban	16° 30' N	96° 07' E	22m
Philippines	Metro Manila	Urban	14° 38' N	121° 04' E	54m
	Los Banos	Rural	14° 11' N	121° 15' E	35m
	Mt. Sto. Tomas	Remote	16° 25' N	120° 36' E	1,500m
Republic of Korea	Kanghwa	Rural	37° 42' N	126° 17' E	150m
	Cheju (Kosan)	Remote	33° 18' N	126° 10' E	72m
	Imsil	Rural	35° 36' N	127° 11' E	

Country	Name of sites	Characteristics of sites	Latitude	Longitude	Height above sea
Russia	Mondy	Remote	51° 40' N	101° 0' E	2,000m
	Listvyanka	Rural	51° 51' N	104° 54' E	700m
	Irkutsk	Urban	52° 14' N	104° 15' E	400m
	Primorskaya	Rural	43° 42' N	132° 07' E	84m
Thailand	Bangkok	Urban	13° 46' N	100° 32' E	2m
	Samutprakarn	Urban	13° 44' N	100° 34' E	2m
	Patumthani	Rural	14° 02' N	100° 46' E	2m
	Khanchanaburi (Vachiralongkorn Dam)	Remote	14° 46' N	98° 35' E	170m
	Chiang Mai (Mae Hia)	Rural	18° 46' N	98° 56' E	350m
	Nakhon Ratchasima	Rural	14° 27' N	101° 53' E	418m
Vietnam	Hanoi	Urban	21° 01' N	105° 51' E	5m
	Hoa Binh	Rural	20° 49' N	105° 20' E	23m

Table 2.3 provides further details on the sites, including the types of measurements carried out and the equipment used for making dry deposition (air concentration) measurements. Filter packs are used at 36 sites for measurements of air concentrations of pollutants for determination of dry deposition. Automatic or manual gas monitors for NO_x and SO₂ were used in 22 sites, while 19 sites used automatic instruments to monitor ozone concentration. Concentrations of particulate matter as PM₁₀ were measured by automatic or manual instruments at 21 sites. Meteorological conditions such as wind speed, wind direction, air temperature, relative humidity, and solar radiation were measured by meteorological equipment installed at the sites or nearby at the meteorological observatories.

Ecological survey sites established for soil and vegetation monitoring and inland aquatic monitoring are basically located in the vicinity of the acid deposition monitoring sites. Information on the ecological survey sites and their activities are further described in Chapters 5 and 6.

Table 2.3 Outline of Wet and Dry Deposition (Air Concentration) Monitoring

Country	Name of sites	Characteristics of sites	Wet Dep.	Dry Dep.			
				Automatic			Filter Pack
				SO ₂ ,NO _x	O ₃	PM	
Cambodia	Phnom Penh	Urban	✓	None	None	None	None
China	Chongqing-Haifu	Urban	✓	None	None	None	None
	- Jinyunshan	Rural	✓	✓	None	✓	None
	Xi'an - Shizhan	Urban	✓	None	None	None	None
	- Jiwozi	Remote	✓	None	None	None	None
	Xiamen - Hongwen	Urban	✓	✓	None	✓	✓
	- Xiaoping	Remote	✓	None	None	None	None
	Zhuhai - Xiang Zhou	Urban	✓	✓	None	None	✓
	- Zhuxiandong	Urban	✓	None	None	None	None
Indonesia	Jakarta	Urban	✓	None	None	None	PS
	Serpong	Rural	✓	None	None	None	✓
	Kototabang	Remote	✓	None	None	None	PS
	Bandung	Urban	✓	None	None	None	PS
	Maros	Rural	✓	None	None	None	None
Japan	Rishiri	Remote	✓	✓	✓	✓	✓
	Ochiishi	Remote	✓	✓	✓	✓	✓
	Tappi	Remote	✓	✓	✓	✓	✓
	Sado-seki	Remote	✓	✓	✓	✓	✓
	Happo	Remote	✓	✓	✓	✓	✓
	Ijira	Rural	✓	✓	✓	✓	✓
	Oki	Remote	✓	✓	✓	✓	✓
	Banryu	Urban	✓	✓	✓	✓	✓
	Yusuhara	Remote	✓	✓	✓	✓	✓
	Hedo	Remote	✓	✓	✓	✓	✓
	Ogasawara	Remote	✓	✓	✓	✓	✓
	Tokyo	Urban	✓	None	None	None	✓
Lao PDR	Vientiane	Urban	✓	None	None	None	None
Malaysia	Tanah Rata	Remote	✓	✓	✓	None	✓
	Petaling Jaya	Urban	✓	None	None	None	✓
	Danum Valley	Remote	✓	None	None	None	✓
	Kuching	Urban	✓	None	None	None	None
Mongolia	Ulaanbaatar	Urban	✓	None	None	None	✓
	Terelj	Remote	✓	None	None	None	✓
Myanmar	Yangon	Urban	✓	None	None	None	None
Philippines	Metro Manila	Urban	✓	None	None	None	✓
	Los Banos	Rural	✓	None	None	None	✓
	Mt. Sto. Tomas	Remote	✓	None	None	None	✓
Republic of Korea	Kanghwa	Rural	✓	✓	✓	✓	✓
	Cheju (Kosan)	Remote	✓	✓	✓	✓	✓
	Imsil	Rural	✓	✓	✓	✓	✓

Country	Name of sites	Characteristics of sites	Wet Dep.	Dry Dep.			
				Automatic			Filter Pack
				SO ₂ ,NO _x	O ₃	PM	
Russia	Mondy	Remote	✓	None	✓	None	✓
	Listvyanka	Rural	✓	None	None	None	✓
	Irkutsk	Urban	✓	None	None	None	✓
	Primorskaya	Rural	✓	None	None	None	✓
Thailand	Bangkok	Urban	✓	✓	✓	✓	✓
	Samutprakarn	Urban	✓	✓	✓	✓	None
	Patumthani	Rural	✓	None	None	None	✓
	Khanchanaburi	Remote	✓	✓	✓	✓	✓
	(Vachiralongkorn Dam)						
	Chiang Mai (Mae Hia)	Rural	✓	✓	✓	✓	✓
Nakhon Ratchasima	Rural	✓	None	None	None	✓	
Vietnam	Hanoi	Urban	✓	None	None	None	✓
	Hoa Binh	Rural	✓	None	None	None	✓

(Note 1) PS: Passive sampler

(Note 2) Monitoring on wet deposition started at Haifu, Maros, and Kuching in January 2008. Outline of these new sites are as follows;

[Haifu]

Address : : #1, Qingsonglu, Yubei district, Chongqing, China

Site classification : Urban

Latitude : North, 29°37' Longitude : East, 106°30' Altitude : 317m

Instruments : Wet-only Sampler (US-320H),

[Maros]

Address : Jl. DR. Ratulangi 75 A Maros South Sulawesi – Indonesia

Site classification : Rural

Latitude : South, 4° 55' Longitude : East, 119° 34' Altitude : 11m

Instruments : Wet-only Sampler (ECOTEC Model-200)

[Kuching]

Address : Upper Air Station, Kuching International Airport, 93250 Kuching, Sarawak

Site classification : Urban

Latitude : North, 1°29' Longitude : East, 110°28' Altitude : 22m

Instruments : Wet-only Sampler (APS)

CHAPTER 3

Wet Deposition Monitoring

3. Wet Deposition Monitoring

3.1 Method

To obtain comparable, high quality monitoring data, each participating country is required to carry out acid deposition monitoring using common methodologies as specified in the *Guidelines for Acid Deposition Monitoring in East Asia, Technical Documents on Wet Deposition Monitoring in East Asia* and related QA/QC documents, which were adopted at The Second Interim Scientific Advisory Group Meeting in March 2000. The flow chart that summarizes the procedures for sampling and chemical analysis to be followed by the participating countries is presented in [Figure 3.1](#).

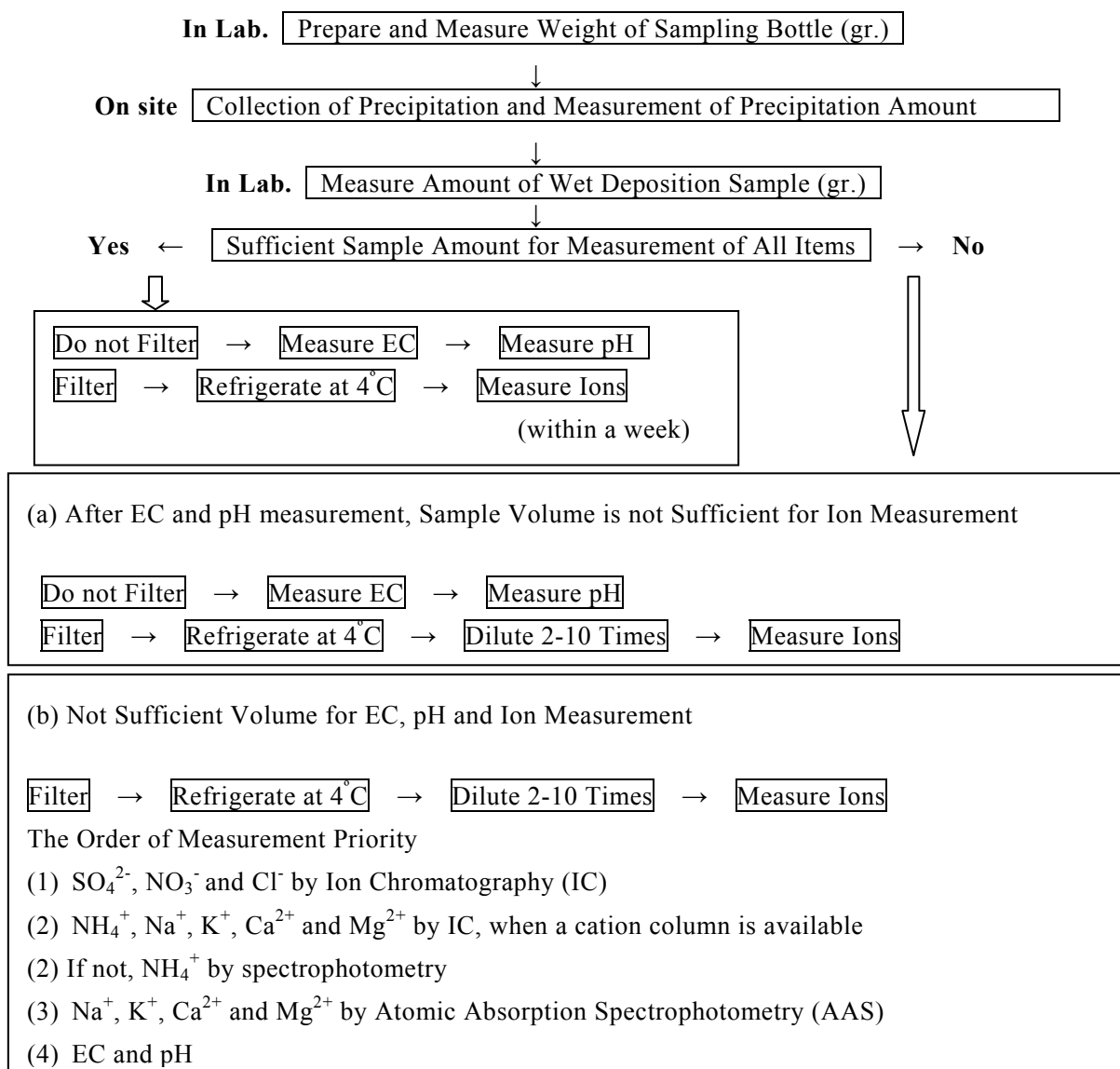


Figure 3.1 Flow Chart of Sampling and Chemical Analysis of Wet Deposition

3.1.1 Field Operation

The wet-only sampler is recommended for sampling precipitation. This instrument is designed to collect precipitation samples during the period of rainfall only as it is equipped with sensor to detect precipitation and activate the lid to open during the precipitation period and close to cover the collecting bucket or funnel during non-precipitation periods. However, a manual sampler may be used to collect rain if an automatic instrument is not available but care must be taken to ensure that the sampler is exposed only during precipitation.

For wet deposition samples collected in a tropical region, preservation of samples from microbial decomposition should be considered. Biocides such as thymol are recommended for this purpose particularly in situations where refrigeration is not possible during the process of sampling, shipping and storage of the samples. Samples without biocides should be shipped to the laboratories in charge of chemical analysis using a cooling box to keep the sample temperature low enough to preserve the sample chemistry. On the other hand, sampling of wet deposition in the higher latitude region during winter seasons may encounter difficulties due to low air temperature particularly when the temperature falls below minus 10 to 20°C.

3.1.2 Laboratory Operation

Procedures suggested for wet deposition major constituent analysis by the manual are shown in [Table 3.1](#). Ion Chromatography is recommended as the major analytical method to be adopted by the participating countries for chemical analysis of both anions and cations contained in precipitation samples. Atomic Absorption Spectrometry for Na⁺, K⁺, Ca²⁺, and Mg²⁺, and Spectrophotometry for NH₄⁺ are also useful tools for the determination of these cations. Laboratories that use other non-recommended methods with insufficient analytical sensitivity, such as titration method, will encounter problems of poor detection limit.

3.1.3 Data Management

The participating laboratories should submit the analyzed data of the precipitation samples to the National Centers of EANET. Before June of the following year, each National Center will then submit the compiled data in the required format to the Network Center of EANET. All the data should be checked for ion balance and conductivity agreement by calculating

ion balance (R_1) and conductivity agreement (R_2). If a sample or individual datum has problems including “insufficient sample volume” or “low precision”, the flags corresponding to the problems should be attached to the data. Participating countries can refer to the EANET document on “Quality Assurance/Quality Control (QA/QC) Program for Wet Deposition Monitoring in East Asia” adopted at the Second Interim Scientific Advisory Group Meeting in March 2000 for details on data management.

3.1.4 Meteorological Measurements

Wind direction/speed, temperature, humidity, precipitation amount and solar radiation in relation to wet deposition should be measured at the nearest meteorological station in accordance with the measurement frequencies and methods of the meteorological monitoring system of each country. The meteorological data should be submitted together with the data on wet and dry deposition (air concentration) and ecological surveys information.

Table 3.1 Procedures recommended for analysis of major constituent of wet deposition

Analysis	Instrumental Method
Electric Conductivity (EC)	Conductivity Cell
pH	Glass Electrode (Preferably with the Electrode of Non-leak Inner Cell)
Cl ⁻ , NO ₃ ⁻ , SO ₄ ²⁻ , NO ₂ ⁻ , F ⁻ , PO ₄ ³⁻	Ion Chromatography (Preferably with Suppressor) Spectrophotometry
NH ₄ ⁺	Ion Chromatography Spectrophotometry (Indophenol Blue)*
Na ⁺ , K ⁺ , Ca ²⁺ , Mg ²⁺	Ion Chromatography Atomic Absorption/ Emission Spectrometry
Heavy Metals, Al Hg	Atomic Absorption Spectrometry with Graphite Furnace, ICP Emission Spectrometry, ICP/MS, Mercury Analyzer with a Gold Trap
Organic Acids	Ion Chromatography

* Not recommended if the biocide, thymol, is used in sample collection.

3.1.5 Overview of the statistics and definition

An overview of the statistics and definitions used is given below.

Weighted average: the precipitation amount weighted average concentration ($\mu\text{mol/L}$) over the summary period.

Calculated as:

$$\hat{C} = \Sigma C_i P_i / \Sigma P_i$$

where \hat{C} : precipitation amount weighted average concentration

C_i : measured valid concentration for sample i

P_i : precipitation amount for the same sample i with valid concentration

Deposition amount: the wet deposition amount (mmol/m^2) for the summary period.

Calculated as:

$$\text{Deposition amount} = \hat{C} \times (\text{total precipitation amount for the summary period})$$

The concentrations for the sampling periods with missing data have consequently been assumed to be equal to the weighted average of the summary period.

Non-sea-salt sulfate and non-sea-salt calcium ($\mu\text{mol/L}$): Equal to the measured sulfate (calcium) in the sample minus the sulfate (calcium) contributed by sea salt. Sea salt sulfate (calcium) is estimated from the concentration of sodium.

$$[\text{nss-SO}_4^{2-}] = [\text{SO}_4^{2-}] - 0.06028 \times [\text{Na}^+]$$

$$[\text{nss-Ca}^{2+}] = [\text{Ca}^{2+}] - 0.02161 \times [\text{Na}^+]$$

(Na^+ : 468.3 mmol/L, SO_4^{2-} : 28.23 mmol/L, Ca^{2+} : 10.12 mmol/L; Ref.: *Guide to maritime observation, Oceanographic Society of Japan*)

Data completeness:

- (i) **Percent precipitation coverage length (%PCL):** Percentage of days with measured precipitation plus no precipitation days in the summary period.

Calculated as:

$$\%PCL = [(\text{Number of days in the summary period}) - (\text{Number of days with missing or unknown precipitation})] / (\text{Number of days in the summary period}) \times 100$$

- (ii) **Percent total precipitation (%TP):** Percentage of total precipitation amount over the summary period represented by valid component measurements.

Calculated as:

$$\%TP = (\text{Sum of precipitation amounts for samples with valid sample component measurements}) / (\text{Sum of precipitation amounts for all samples}) \times 100$$

(iii) Data completeness criteria for monthly and annual summaries:

$$\%PCL \geq 80\%, \text{ and } \%TP \geq 80\%$$

The low values on data completeness were caused by some trouble, such as contamination of sample and malfunction of the wet-only sampler or the rain gauge.

Ion balance (R_1):

Calculated as:

$$R_1 = (C - A) / (C + A) \times 100 (\%)$$

where C: total cation equivalent concentration ($\mu\text{eq/L}$)

A: total anion equivalent concentration ($\mu\text{eq/L}$)

$$C = 10^{(6-\text{pH})} / 1.008 + \sum C_{Ci} \cdot V_i$$

where C_{Ci} : the concentration of i-th cation ($\mu\text{mol/L}$)

V_i : the valence of the given ion

$$A = \sum C_{Ai} \cdot V_i$$

where C_{Ai} : the concentration of i-th anion ($\mu\text{mol/L}$)

Required criteria for R_1 :

The required ion balances of precipitation analyses are given in Table 3.2.

Table 3.2 Required criteria for R_1

(C+A) ($\mu\text{eq/L}$)	R_1 (%)
<50	± 30
50 – 100	± 15
>100	± 8

Conductivity agreement (R_2) :

Calculated as:

$$R_2 = (\Lambda_{\text{calc}} - \Lambda_{\text{meas}}) / (\Lambda_{\text{calc}} + \Lambda_{\text{meas}}) \times 100 (\%)$$

where Λ_{calc} : the calculated conductivity (mS/m)

Λ_{meas} : the measured conductivity (mS/m)

$$\Lambda_{\text{calc}} = \sum C_i \Lambda_i^0 \times 10^{-4}$$

where C_i : the ionic concentration of i-th ion ($\mu\text{mol/L}$)

Λ_i^0 : the molar conductivity at infinite dilution and 25°C (Scm^2/mol)

$$\Lambda_{\text{calc}} = \{349.7 \times 10^{(6-\text{pH})} + 80.0 \times 2c(\text{SO}_4^{2-}) + 71.5c(\text{NO}_3^-) + 76.3c(\text{Cl}^-) + 73.5c(\text{NH}_4^+) + 50.1c(\text{Na}^+) + 73.5c(\text{K}^+) + 59.8 \times 2c(\text{Ca}^{2+}) + 53.3 \times 2c(\text{Mg}^{2+})\} / 10000$$

where $c(\)$: the ionic concentrations ($\mu\text{mol/L}$)

The constants are the molar conductivity of the individual ion at infinite dilution at 25°C (Scm^2/mol).

Required criteria for R_2 :

The required conductivity comparison criteria are given in Table 3.3.

Table 3.3 Required criteria for R_2

Λ_{meas} (mS/m)	R_2 (%)
<0.5	± 20
0.5 – 3	± 13
>3	± 9

If pH is greater than 6, hydrogen carbonate (HCO_3^-) concentration is included for the computation of R_1 and R_2 . The HCO_3^- concentration is calculated from the dissociation constant, K_a and pH. (If the HCO_3^- concentration is measured, the measured data is considered in the evaluation of R_1 and R_2).

Calculated as:

$$[\text{HCO}_3^-] = P_{\text{CO}_2} \text{H}_{\text{CO}_2} K_{a1} / [\text{H}^+] = (360 \times 10^{-6}) \times (3.4 \times 10^{-2}) \times 10^{(\text{pH}-6.35+6)} = 1.24 \times 10^{(\text{pH}-5.35)}$$

Air concentration of CO_2 in equilibrium with precipitation samples is assumed to be 360ppm. Dissociation constant in terms of pKa for carbonic acid is 6.35.

3.1.6 Terms and abbreviations

Terms and abbreviations indicate the followings:

- Data in hatched column (▨) : Rejected monthly (annual) value by the criteria:
[%PCL<80% and/or %TP<80%]
- [--] : Precipitation was 0 mm.
- [*] : The constituent was not measured although precipitation was not 0 mm.
[%TP=0%]
- [**]: Precipitation was not measured. [%PCL=0%]
- [***]: No data or not measured
- Black column (■) : Monitoring was not carried out.

Volume-weighted mean concentrations / precipitation / deposition (monthly)

- Max: Maximum monitoring data for a year
- Min: Minimum monitoring data for a year

Detection Limits

- i) For H⁺ concentration,
 - [<0.1] : <0.1μmol/L
- ii) For concentration of other constituent,
 - [<0.2], [<0.4], [<1.0] : The values are lower than each Recommended Minimum Detectable Amount (MDA) given by the Technical Manual for Wet Deposition Monitoring
 - SO₄²⁻, nss-SO₄²⁻, NO₃⁻, Cl⁻, NH₄⁺, Na⁺, K⁺ : <1.0μmol/L
 - Ca²⁺, nss-Ca²⁺ : <0.2μmol/L
 - Mg²⁺ : <0.4μmol/L
- iii) For deposition,
 - [0.00] : Deposition amount is zero. (Precipitation was 0 mm.)
 - [<0.01] : <0.01mmol/m²

Results of ion balance (R₁) and conductivity agreement check (R₂),

- Sample (N) : Number of samples
- R₁ (N) : Number of samples measured and calculated ion balance (R₁)
- R₁ (AA) : Number of samples within allowable ranges for R₁
- R₂ (N) : Number of samples measured and calculated conductivity agreement (R₂)
- R₂ (AA) : Number of samples within allowable ranges for R₂
- R₁&R₂ (N) : Number of samples measured and calculated both R₁ and R₂
- R₁&R₂ (AA) : Number of samples within allowable ranges of both R₁ and R₂

3.1.7 Monitoring Sites

Precipitation samples are collected on a daily basis at 37 out of 52 sites, while weekly collecting is performed at 15 sites, as presented in [Table 3.4](#). The analytical methods used in the laboratories for analyzing the precipitation samples are presented in [Table 3.5](#).

Table 3.4 Sampling Frequencies of countries for Wet Deposition Monitoring

Country	Name of sites	Characteristics of sites	Sampling Interval	Starting Month
Cambodia	Phnom Penh	Urban	Weekly	April '04
China	Haifu (Chongqing)	Urban	Daily	January '08
	Jinyunshan (Chongqing)	Rural	Daily	April '99
	Shizhan (Xi'an)	Urban	Daily	April '99
	Jiwozi (Xi'an)	Remote	Daily	April '99
	Hongwen (Xiamen)	Urban	Daily	April '99
	Xiaoping (Xiamen)	Remote	Daily	April '99
	Xiang Zhou (Zhuhai)	Urban	Daily	April '99
Zhuxian Cavern (Zhuhai)	Urban	Daily	December '99	
Indonesia	Jakarta	Urban	Weekly	April '98
	Serpong	Rural	Daily	April '98
	Kototabang	Remote	Weekly	April '98
	Bandung	Urban	Daily	January '99
Maros	Rural	Weekly	January '08	
Japan	Rishiri	Remote	Daily	April '98
	Ochiishi	Remote	Daily	January '03
	Tappi	Remote	Daily	April '98
	Sado-seki	Remote	Daily	April '99
	Happo	Remote	Daily	April '98
	Ijira	Rural	Weekly	June '99
	Oki	Remote	Daily	April '98
	Banryu	Urban	Weekly	May '99
	Yusuhara	Remote	Daily	December '99
	Hedo	Remote	Daily	December '99
	Ogasawara	Remote	Daily	May '99
Tokyo	Urban	Daily	April '07	
Lao PDR	Vientiane	Urban	Daily	October '03
Malaysia	Petaling Jaya	Urban	Weekly	April '98
	Tanah Rata	Remote	Weekly	January '99
	Danum Valley	Remote	Weekly	January '05
	Kuching	Urban	Weekly	January '08
Mongolia	Ulaanbaatar	Urban	Daily	August '98
	Terelj	Remote	Daily	September '98
Myanmar	Yangon	Urban	Daily	January '07
Philippines	Metro Manila	Urban	Weekly	April '99
	Los Banos	Rural	Weekly	April '99
	Mt. Sto. Tomas	Remote	Weekly	October '06
Republic of Korea	Kanghwa	Rural	Daily	March '99
	Cheju (Kosan)	Remote	Daily	April '99
	Imsil	Rural	Daily	January '01

Country	Name of sites	Characteristics of sites	Sampling Interval	Starting Month
Russia	Mondy	Remote	Daily	May '99
	Listvyanka	Rural	Daily	January '00
	Irkutsk	Urban	Daily	January '00
	Primorskaya	Rural	Daily	February '02
Thailand	Bangkok	Urban	Daily	April '99
	Samutprakarn	Urban	Daily	January '04
	Patumthani	Rural	Daily	March '99
	Khanchanaburi	Remote	Daily	April '99
	Chiang Mai (Mae Hia)	Rural	Daily	January '01
Nakhon Ratchasima	Rural	Daily	January '06	
Viet Nam	Hanoi	Urban	Weekly	August '99
	Hoa Binh	Rural	Weekly	August '99

Table 3.5 Analytical methods used for Wet Deposition Monitoring

Country	Name of sites	Characteristics of sites	Anion Analysis	Cation Analysis	
				NH ₄ ⁺	Other Cations
Cambodia	Phnom Penh	Urban	IC	IC	IC
China	Haiyu (Chongqing)	Urban	IC	IC	IC
	Jinyunshan (Chongqing)	Rural	IC	IC	IC
	Shizhan (Xi'an)	Urban	IC	IC	IC
	Jiwozi (Xi'an)	Remote	IC	IC	IC
	Hongwen (Xiamen)	Urban	IC	SP	IC
	Xiaoping (Xiamen)	Remote	IC	SP	IC
	Xiang Zhou (Zhuhai)	Urban	IC	IC	IC
	Zhuxian Cavern (Zhuhai)	Urban	IC	IC	IC
Indonesia	Jakarta	Urban	IC	IC	IC
	Serpong	Rural	IC	IC	IC
	Kototabang	Remote	IC	IC	IC
	Bandung	Urban	IC	IC	IC
	Maros	Rural	IC	IC	IC
Japan	Rishiri	Remote	IC	IC	IC
	Ochiishi	Remote	IC	IC	IC
	Tappi	Remote	IC	IC	IC
	Sado-seki	Remote	IC	IC	IC
	Happo	Remote	IC	IC	IC
	Ijira	Rural	IC	IC	IC
	Oki	Remote	IC	IC	IC
	Banryu	Urban	IC	IC	IC
	Yusuhara	Remote	IC	IC	IC
	Hedo	Remote	IC	IC	IC
	Ogasawara	Remote	IC	IC	IC
	Tokyo	Urban	IC	IC	IC
Lao PDR	Vientiane	Urban	IC	IC	IC
Malaysia	Petaling Jaya	Urban	IC	IC	IC
	Tanah Rata	Remote	IC	IC	IC
	Danum Valley	Remote	IC	IC	IC
	Kuching	Urban	IC	IC	IC

Country	Name of sites	Characteristics of sites	Anion Analysis	Cation Analysis	
				NH ₄ ⁺	Other Cations
Mongolia	Ulaanbaatar	Urban	IC	IC	IC
	Terelj	Remote	IC	IC	IC
Myanmar	Yangon	Urban	-	-	-
Philippines	Metro Manila	Urban	IC	SP	AAS
	Los Banos	Rural	IC	SP	AAS
	Mt. Sto. Tomas	Remote	IC	SP	AAS
Republic of Korea	Kanghwa	Rural	IC	IC	IC
	Cheju (Kosan)	Remote	IC	IC	IC
	Imsil	Rural	IC	IC	IC
Russia	Mondy	Remote	LC	SP	AAS, FP
	Listvyanka	Rural	LC	SP	AAS, FP
	Irkutsk	Urban	LC	SP	AAS, FP
	Primorskaya	Rural	SP, TI	SP	AAS, FP
Thailand	Bangkok	Urban	IC	IC	IC
	Samutprakarn	Urban	IC	IC	IC
	Patumthani	Rural	IC	IC	IC
	Khanchanaburi	Remote	IC	IC	IC
	Chiang Mai (Mae Hia)	Rural	IC	IC	IC
	Nakhon Ratchasima	Rural	IC	IC	IC
Viet Nam	Hanoi	Urban	IC	IC	IC
	Hoa Binh	Rural	IC	IC	IC

AAS: Atomic Absorption Spectrometry, FP: Flame Photometry, IC: Ion Chromatography, SP: Spectrophotometry, TI: Titration, LC: Liquid Chromatography, -: not analyzed

3.2 Results of Monitoring

The monthly summaries of each monitoring site in 2008 are shown in [Table 3.6](#) through [Table 3.57](#). The annual summaries of wet deposition monitoring in 2008 are shown in [Table 3.58](#) through [Table 3.60](#).

Results of ion balance (R_1) and the conductivity agreement (R_2) of each monitoring site are shown in [Table 3.61](#). [Figure 3.2](#) to [Figure 3.52](#) are plots of R_1 and R_2 for each site. The following information is provided to describe the figures:

(1) Ion Balance (R_1)

- (C + A) is logarithmic scale
- Horizontal bar : The allowable range of R_1 in each concentration range

(2) Conductivity Agreement (R_2)

- (Λ_{meas}) is logarithmic scale
- Horizontal bar : The allowable range of R_2 in each conductivity range

R_1 and R_2 were calculated for some sites including the following items:

- Haifu, Jinyunshan, Hongwen and Xiaoping (China): F^-
- Metro Manila, Los Banos and Mt. Sto. Tomas (Philippines): NO_2^-
- Mondy and Primorskaya (Russia): HCO_3^- , NO_2^- , Br^-
- Listvyanka and Irkutsk (Russia): HCO_3^- , NO_2^- , Br^- , F^-
- Hanoi, Hoa Binh (Viet Nam): F^-

The summaries of annual data from 2000 to 2008 are shown in [Table 3.62](#) through [Table 3.86](#). The site identification codes are given in [Table 3.87](#). Please note that the data in 2000 is obtained during the preparatory-phase activities of EANET. The summaries contain the precipitation amount weighted average, the maximum and minimum data reported over the year, data completeness (%PCL, %TP), the wet deposition amount, and the results of ion balance and conductivity agreement check.

Table 3.6 Monthly results

Site: Phnom Penh

Country: Cambodia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	30.6	29.3	34.9	27.7	42.0	22.2	7.4	43.8	43.3	7.7	7.1	5.15	2.65	25.2
Feb	35.3	34.7	39.6	40.0	10.7	9.3	5.6	37.9	37.7	4.8	0.1	6.98	3.62	20.7
Mar	13.3	11.7	15.7	10.6	14.6	26.1	9.6	94.5	94.0	9.6	0.2	6.61	5.27	48.2
Apr	10.3	10.0	9.7	8.2	11.2	4.9	2.6	10.7	10.6	2.4	0.7	6.17	0.89	180.0
May	11.2	10.6	8.4	9.7	11.0	9.2	1.9	20.4	20.2	2.8	0.6	6.20	1.16	149.1
June	10.2	9.8	7.8	10.6	4.1	6.6	1.7	24.0	23.9	2.9	0.6	6.21	1.22	133.7
July	12.0	11.5	7.2	12.3	9.8	7.7	1.9	23.0	22.8	2.2	0.8	6.12	1.40	157.1
Aug	11.5	11.2	9.8	9.5	15.2	5.7	2.0	21.0	20.9	2.8	0.7	6.17	1.43	216.4
Sept	20.2	4.8	5.7	9.3	<1.0	3.6	1.7	18.5	18.4	0.9	1.5	5.83	1.22	411.2
Oct	7.9	7.1	6.1	8.7	<1.0	12.8	1.5	<0.2	<0.2	<0.4	3.5	5.46	1.26	197.3
Nov	<1.0	<1.0	13.4	<1.0	36.3	25.1	65.0	119	119	11.0	2.0	5.69	2.11	295.5
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	11.6	8.7	9.4	8.7	11.8	10.3	10.3	32.6	32.5	3.5	1.4	5.84	1.53	1834.4
Max.	38	37	39.6	40.0	42	30.1	81.3	148	148	12.9	7.4	7.05	5.49	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	1.3	<0.2	<0.2	<0.4	<0.1	5.13	0.43	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.77	0.74	0.88	0.70	1.06	0.56	0.19	1.11	1.09	0.19	0.18
Feb	0.73	0.72	0.82	0.83	0.22	0.19	0.12	0.79	0.78	0.10	<0.01
Mar	0.64	0.57	0.76	0.51	0.71	1.26	0.46	4.56	4.53	0.46	0.01
Apr	1.86	1.80	1.74	1.48	2.02	0.89	0.46	1.93	1.91	0.43	0.12
May	1.67	1.59	1.25	1.45	1.64	1.37	0.28	3.04	3.01	0.42	0.09
June	1.36	1.31	1.04	1.42	0.54	0.88	0.23	3.22	3.20	0.39	0.08
July	1.88	1.81	1.13	1.94	1.54	1.21	0.29	3.61	3.58	0.35	0.12
Aug	2.50	2.42	2.11	2.05	3.29	1.24	0.43	4.54	4.51	0.61	0.15
Sept	8.31	1.98	2.36	3.82	0.11	1.48	0.68	7.62	7.59	0.39	0.60
Oct	1.56	1.40	1.21	1.72	0.00	2.52	0.30	0.00	0.00	0.00	0.69
Nov	0.00	0.00	3.95	0.00	10.7	7.41	19.2	35.3	35.1	3.26	0.60
Dec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	21.3	15.9	17.2	15.9	21.6	18.8	19.0	59.9	59.5	6.33	2.65

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	35
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	54	100	100	54	54	54	54	54	54	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	67	100	100	67	67	67	67	67	67	100	100	100	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Annual	100	84	100	100	84	84	84	84	84	84	100	100	100	95

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.7 Monthly results

Site: Haifu

Country: China

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	591	590	287	50.7	480	18.2	40.7	360	360	30.0	87.0	4.06	19.8	14.5
Feb	223	223	131	23.9	209	8.1	15.6	80.8	80.6	9.0	164	3.79	11.9	32.2
Mar	235	234	106	23.4	246	13.4	18.3	118	118	14.3	77.4	4.11	10.1	42.0
Apr	172	171	63.3	13.9	153	7.2	11.1	78.1	77.9	8.9	55.9	4.25	6.95	72.9
May	153	153	59.7	8.7	191	6.5	13.2	60.7	60.5	7.5	43.1	4.37	6.09	130.4
June	85.2	84.7	33.6	8.3	90.6	8.0	6.1	41.4	41.2	4.9	21.5	4.67	3.39	240.9
July	152	151	65.0	17.2	175	6.2	14.7	96.2	96.1	7.0	24.4	4.61	6.20	63.2
Aug	129	128	61.0	7.8	114	5.1	9.1	46.6	46.5	6.0	103	3.99	6.98	120.8
Sept	125	124	44.1	11.7	105	4.5	8.3	53.7	53.6	6.3	97.6	4.01	6.10	68.2
Oct	110	110	51.9	15.7	102	4.7	9.1	48.1	48.0	4.1	78.2	4.11	5.83	142.2
Nov	127	127	63.5	18.5	162	5.9	13.1	54.0	53.9	7.3	47.8	4.32	5.94	40.5
Dec	253	253	167	27.1	287	9.1	27.3	117	117	11.8	127	3.90	12.1	29.6
Annual	144	144	65.0	13.8	148	7.0	11.5	65.3	65.2	7.1	63.5	4.20	6.46	1009.5
Max.	1900	1890	807	193	1360	89.2	124	1270	1270	78.5	1450	6.69	66.7	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.2	2.84	1.00	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	8.57	8.56	4.16	0.73	6.96	0.26	0.59	5.22	5.22	0.44	1.26
Feb	7.19	7.18	4.23	0.77	6.75	0.26	0.50	2.60	2.60	0.29	5.27
Mar	9.88	9.85	4.46	0.98	10.3	0.56	0.77	4.97	4.96	0.60	3.25
Apr	12.5	12.5	4.61	1.02	11.2	0.52	0.81	5.69	5.68	0.65	4.08
May	20.0	19.9	7.79	1.14	24.9	0.85	1.72	7.91	7.89	0.98	5.62
June	20.5	20.4	8.09	1.99	21.8	1.93	1.48	9.98	9.94	1.17	5.18
July	9.58	9.56	4.11	1.08	11.1	0.39	0.93	6.08	6.07	0.44	1.54
Aug	15.6	15.5	7.37	0.94	13.7	0.62	1.10	5.63	5.61	0.72	12.5
Sept	8.50	8.48	3.01	0.80	7.14	0.30	0.57	3.66	3.65	0.43	6.66
Oct	15.7	15.6	7.39	2.24	14.5	0.67	1.29	6.85	6.83	0.59	11.1
Nov	5.16	5.15	2.57	0.75	6.56	0.24	0.53	2.19	2.18	0.30	1.94
Dec	7.49	7.48	4.95	0.80	8.50	0.27	0.81	3.46	3.46	0.35	3.75
Annual	145	145	65.6	13.9	149	7.06	11.6	66.0	65.8	7.15	64.1

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	97	97	97	97	97	97	97	97	97	97	94	94	94	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	97	97	97	97	97	97	97	97	97	97	97	97	97	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.8 Monthly results

Site: Jinyunshan

Country: China

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	414	413	173	37.2	328	16.4	31.0	246	246	11.2	147	3.83	16.4	30.2
Feb	252	250	114	31.9	186	24.9	17.4	204	204	10.4	58.2	4.24	10.3	38.5
Mar	156	156	58.5	13.1	114	10.3	10.4	105	105	5.6	55.0	4.26	6.47	61.2
Apr	149	149	52.7	16.8	114	10.8	11.3	72.0	71.8	6.1	52.0	4.28	5.55	120.1
May	168	168	58.6	13.1	165	9.8	12.5	76.1	75.9	6.7	53.8	4.27	6.85	105.3
June	80.1	79.4	28.3	13.0	78.1	10.9	7.7	35.4	35.1	2.8	32.4	4.49	3.54	216.5
July	97.3	96.7	38.7	17.3	78.2	10.0	7.4	58.0	57.8	3.1	30.4	4.52	3.82	80.0
Aug	67.1	66.8	25.8	9.7	47.5	5.2	5.2	36.9	36.8	2.4	38.8	4.41	3.37	225.1
Sept	89.9	89.4	29.2	14.0	72.9	8.8	7.1	53.0	52.8	3.4	35.4	4.45	4.34	110.4
Oct	97.9	97.2	38.7	17.2	64.2	11.5	7.8	76.8	76.5	4.6	30.3	4.52	4.20	133.6
Nov	138	137	60.6	23.7	118	15.3	13.4	81.9	81.6	8.2	42.4	4.37	5.84	44.1
Dec	191	190	97.0	17.4	191	12.8	17.0	88.8	88.5	7.6	71.5	4.15	8.85	48.2
Annual	120	120	46.5	15.4	98.8	10.3	9.5	68.3	68.1	4.6	44.0	4.36	5.13	1213.2
Max.	827	825	323	112	653	104	63.4	532	530	34.5	389	6.92	35.9	
Min.	30.9	30.7	10.6	1.7	4.4	2.6	2.3	18.5	18.4	<0.4	0.1	3.41	1.03	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	12.5	12.5	5.22	1.12	9.90	0.50	0.94	7.44	7.43	0.34	4.44
Feb	9.69	9.63	4.37	1.23	7.17	0.96	0.67	7.86	7.84	0.40	2.24
Mar	9.57	9.53	3.58	0.80	6.98	0.63	0.63	6.44	6.43	0.34	3.37
Apr	17.9	17.9	6.33	2.01	13.7	1.30	1.35	8.65	8.62	0.73	6.25
May	17.7	17.7	6.17	1.38	17.3	1.03	1.32	8.01	7.99	0.70	5.67
June	17.3	17.2	6.12	2.81	16.9	2.36	1.67	7.66	7.61	0.61	7.02
July	7.79	7.74	3.09	1.38	6.25	0.80	0.59	4.64	4.62	0.25	2.43
Aug	15.1	15.0	5.81	2.18	10.7	1.16	1.16	8.30	8.27	0.54	8.73
Sept	9.93	9.87	3.22	1.55	8.05	0.97	0.78	5.85	5.83	0.38	3.91
Oct	13.1	13.0	5.16	2.29	8.57	1.54	1.04	10.3	10.2	0.61	4.05
Nov	6.09	6.05	2.67	1.04	5.19	0.67	0.59	3.61	3.60	0.36	1.87
Dec	9.20	9.16	4.67	0.84	9.21	0.62	0.82	4.28	4.27	0.36	3.45
Annual	146	145	56.4	18.6	120	12.5	11.6	82.9	82.6	5.62	53.3

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	98	98	98	98	98	98	98	98	98	98	98	98	98	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	99	99	99	99	99	99	99	99	99	99	98	98	98	100
Apr	100	100	100	100	100	100	100	100	100	100	98	98	98	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.9 Monthly results

Site: Shizhan

Country: China

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Mar	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Apr	413	410	71.4	51.5	197	48.5	30.7	266	265	179	0.1	6.96	14.3	36.1
May	294	292	57.7	33.8	104	40.0	22.3	242	241	176	<0.1	7.15	12.6	28.4
June	314	310	37.5	93.0	143	63.6	11.4	288	287	75.9	0.2	6.79	13.2	10.4
July	142	141	42.3	36.0	206	17.7	10.8	135	135	17.5	0.4	6.40	6.68	85.6
Aug	127	126	48.5	20.0	108	10.2	8.0	103	103	11.9	0.2	6.70	4.84	68.1
Sept	160	158	28.1	31.0	161	27.5	11.3	117	117	17.5	0.8	6.12	7.21	72.9
Oct	136	135	19.2	25.2	168	15.2	8.5	86.6	86.3	15.6	0.6	6.24	6.30	73.7
Nov	461	458	50.5	60.1	269	53.3	33.6	467	465	51.6	0.2	6.78	16.4	9.9
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	191	190	40.2	33.6	164	24.4	13.3	150	149	45.4	0.4	6.40	7.96	385.1
Max.	921	915	118	186	558	167	61.0	1090	1090	260	2.6	7.78	30.5	
Min.	26.9	24.2	3.5	14.2	<1.0	5.7	3.1	28.1	28.0	7.2	<0.1	5.58	2.51	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr	14.9	14.8	2.58	1.86	7.11	1.75	1.11	9.62	9.58	6.45	<0.01
May	8.35	8.28	1.64	0.96	2.96	1.14	0.63	6.86	6.84	4.99	<0.01
June	3.27	3.23	0.39	0.97	1.48	0.66	0.12	3.00	2.98	0.79	<0.01
July	12.1	12.1	3.62	3.08	17.7	1.51	0.93	11.6	11.5	1.50	0.03
Aug	8.64	8.59	3.30	1.36	7.36	0.70	0.55	7.01	6.99	0.81	0.01
Sept	11.7	11.5	2.05	2.26	11.7	2.00	0.82	8.54	8.50	1.27	0.06
Oct	10.1	9.99	1.42	1.86	12.3	1.12	0.63	6.39	6.36	1.15	0.04
Nov	4.59	4.56	0.50	0.60	2.67	0.53	0.33	4.64	4.63	0.51	<0.01
Dec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	73.6	73.0	15.5	12.9	63.3	9.41	5.11	57.6	57.4	17.5	0.15

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Mar	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.10 Monthly results

Site: Jiwozi

Country: China

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Mar	200	192	106	63.2	37.1	128	36.3	190	187	94.8	<0.1	7.31	11.2	8.7
Apr	141	137	49.4	32.4	51.6	66.2	25.4	110	108	55.3	<0.1	7.10	6.87	27.8
May	170	164	62.3	41.1	6.5	102	29.7	206	204	64.3	<0.1	7.07	9.45	36.5
June	132	127	287	42.8	58.7	84.9	26.0	231	229	66.0	<0.1	7.25	9.14	42.3
July	120	117	242	31.6	123	42.6	19.5	157	156	38.0	0.1	6.97	6.28	63.7
Aug	131	126	59.1	30.4	12.5	83.8	28.9	274	272	69.5	0.2	6.66	7.98	76.7
Sept	162	157	46.4	29.7	4.7	88.8	33.4	323	321	91.5	<0.1	7.09	9.09	121.3
Oct	162	156	44.4	33.9	<1.0	104	36.5	366	364	104	<0.1	7.31	9.25	26.5
Nov	133	129	42.3	35.3	<1.0	75.6	29.7	421	419	137	0.2	6.70	9.49	34.5
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	145	140	103	33.8	31.6	81.1	29.0	266	264	77.3	0.1	6.94	8.46	437.8
Max.	221	219	424	97.2	219	164	42.3	695	694	157	1.4	7.90	12.7	
Min.	29.4	29.0	17.0	10.2	<1.0	7.1	5.0	15.8	15.5	7.8	<0.1	5.86	1.28	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar	1.73	1.66	0.92	0.55	0.32	1.11	0.31	1.64	1.62	0.82	<0.01
Apr	3.92	3.81	1.37	0.90	1.43	1.84	0.71	3.05	3.01	1.54	<0.01
May	6.20	5.98	2.28	1.50	0.24	3.70	1.08	7.52	7.44	2.35	<0.01
June	5.59	5.37	12.1	1.81	2.48	3.59	1.10	9.76	9.68	2.79	<0.01
July	7.62	7.45	15.4	2.01	7.83	2.71	1.24	10.0	9.95	2.42	<0.01
Aug	10.0	9.65	4.54	2.33	0.96	6.43	2.22	21.0	20.8	5.33	0.02
Sept	19.6	19.0	5.62	3.60	0.57	10.8	4.05	39.1	38.9	11.1	<0.01
Oct	4.29	4.13	1.18	0.90	0.01	2.75	0.97	9.69	9.63	2.76	<0.01
Nov	4.59	4.44	1.46	1.22	0.00	2.61	1.02	14.5	14.5	4.72	<0.01
Dec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	63.6	61.5	44.9	14.8	13.8	35.5	12.7	116	116	33.8	0.05

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	97
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.11 Monthly results

Site: Hongwen

Country: China

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	44.5	43.8	27.3	19.8	43.8	10.3	2.2	11.2	10.9	2.6	83.1	4.08	3.41	51.3
Feb	61.8	60.9	36.9	28.8	52.3	15.7	2.1	15.8	15.4	3.7	71.0	4.15	4.25	40.3
Mar	96.3	94.4	98.5	46.1	146	32.4	8.9	53.3	52.6	8.4	55.3	4.26	5.83	21.8
Apr	55.9	54.3	42.5	38.1	59.0	25.4	4.6	14.2	13.6	5.0	63.5	4.20	4.59	89.4
May	56.5	55.3	41.3	29.1	75.9	19.6	2.5	22.1	21.6	4.6	37.6	4.42	3.00	113.4
June	18.2	16.3	14.8	41.1	8.6	32.5	1.8	7.7	7.0	6.8	13.0	4.89	1.42	253.4
July	19.5	18.6	10.1	23.4	31.7	14.2	1.3	10.8	10.5	3.0	5.4	5.27	1.22	157.1
Aug	18.4	16.2	15.0	41.4	20.9	36.6	1.9	30.7	29.9	6.9	1.9	5.73	1.43	52.0
Sept	40.7	38.2	44.7	51.3	61.5	42.8	4.2	35.0	34.1	8.8	4.8	5.32	2.40	19.5
Oct	12.8	11.9	5.5	14.8	10.1	13.5	<1.0	7.5	7.2	3.2	7.8	5.11	0.74	139.2
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Dec	59.7	58.1	44.1	33.0	63.3	26.9	2.8	24.4	23.9	6.0	79.4	4.10	4.89	7.6
Annual	31.7	30.3	22.9	31.2	34.7	22.9	2.1	14.1	13.6	4.9	25.7	4.59	2.15	945.1
Max.	211	208	149	149	213	110	21.3	72	70	28.6	200	6.44	12.8	
Min.	4.8	4.6	3.8	4.1	<1.0	2.5	<1.0	3.4	2.5	0.7	0.4	3.70	0.36	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	2.28	2.25	1.40	1.01	2.25	0.53	0.11	0.57	0.56	0.13	4.26
Feb	2.49	2.45	1.49	1.16	2.11	0.63	0.09	0.64	0.62	0.15	2.86
Mar	2.10	2.06	2.15	1.01	3.18	0.71	0.19	1.16	1.15	0.18	1.21
Apr	4.99	4.86	3.80	3.41	5.28	2.27	0.41	1.27	1.22	0.45	5.67
May	6.40	6.27	4.69	3.30	8.60	2.22	0.28	2.50	2.45	0.52	4.26
June	4.62	4.12	3.76	10.4	2.18	8.24	0.47	1.94	1.77	1.73	3.30
July	3.06	2.92	1.58	3.68	4.99	2.23	0.21	1.70	1.65	0.47	0.85
Aug	0.96	0.84	0.78	2.15	1.09	1.91	0.10	1.60	1.56	0.36	0.10
Sept	0.79	0.74	0.87	1.00	1.20	0.83	0.08	0.68	0.66	0.17	0.09
Oct	1.78	1.66	0.77	2.07	1.40	1.88	0.04	1.04	1.00	0.44	1.09
Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	0.45	0.44	0.34	0.25	0.48	0.21	0.02	0.19	0.18	0.05	0.60
Annual	29.9	28.6	21.6	29.5	32.8	21.7	2.00	13.3	12.8	4.65	24.3

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.12 Monthly results

Site: Xiaoping

Country: China

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	40.6	40.1	36.8	13.2	41.0	8.1	3.8	5.3	5.1	1.1	98.3	4.01	2.86	31.8
Feb	50.0	49.2	28.4	22.0	73.0	12.9	6.6	8.0	7.7	1.8	65.7	4.18	3.56	19.8
Mar	60.9	59.0	82.0	39.8	106	31.3	7.9	17.3	16.6	5.2	71.8	4.14	5.00	62.9
Apr	40.1	39.8	33.7	11.5	44.4	6.5	3.2	3.2	3.1	0.5	49.5	4.31	3.05	109.4
May	33.3	32.1	31.1	20.8	55.1	21.1	7.1	12.5	12.0	1.8	24.3	4.61	1.72	129.0
June	13.9	13.1	14.2	14.6	14.5	13.2	5.1	4.9	4.6	2.8	16.0	4.80	1.11	600.8
July	19.3	18.6	15.2	9.3	28.6	10.5	2.0	3.6	3.4	1.0	16.5	4.78	1.25	368.4
Aug	33.5	32.3	32.7	21.5	49.4	20.5	2.0	9.2	8.8	2.8	42.8	4.37	2.61	396.7
Sept	81.9	75.0	36.0	51.9	19.9	114	84.0	116	113	17.0	26.2	4.58	5.34	161.3
Oct	4.1	3.9	3.1	<1.0	<1.0	2.6	<1.0	4.5	4.4	0.7	10.7	4.97	0.46	102.0
Nov	11.6	11.4	6.8	<1.0	<1.0	4.8	1.2	12.5	12.4	1.3	20.4	4.69	1.05	12.0
Dec	157	153	209	93.9	379	63.3	21.0	95.9	94.5	18.2	18.6	4.73	9.06	6.3
Annual	29.2	27.8	24.6	18.6	33.0	22.5	10.2	15.6	15.1	3.4	27.9	4.55	2.09	2000.5
Max.	166	153	209	119	379	281	215	284	278	41.9	158	7.31	10.3	
Min.	2.5	2.4	1.2	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	<0.1	3.80	0.24	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	1.29	1.28	1.17	0.42	1.31	0.26	0.12	0.17	0.16	0.04	3.13
Feb	0.99	0.97	0.56	0.44	1.44	0.25	0.13	0.16	0.15	0.03	1.30
Mar	3.83	3.71	5.16	2.50	6.68	1.97	0.50	1.09	1.05	0.33	4.52
Apr	4.39	4.35	3.69	1.26	4.86	0.71	0.35	0.35	0.33	0.05	5.41
May	4.30	4.14	4.02	2.68	7.11	2.72	0.92	1.61	1.55	0.23	3.13
June	8.37	7.90	8.54	8.75	8.71	7.91	3.07	2.94	2.76	1.68	9.61
July	7.10	6.86	5.58	3.44	10.5	3.87	0.73	1.34	1.26	0.36	6.09
Aug	13.3	12.8	13.0	8.55	19.6	8.12	0.78	3.65	3.48	1.11	17.0
Sept	13.2	12.1	5.80	8.38	3.21	18.4	13.6	18.7	18.3	2.75	4.23
Oct	0.41	0.40	0.32	0.10	0.06	0.27	0.03	0.46	0.45	0.08	1.09
Nov	0.14	0.14	0.08	<0.01	<0.01	0.06	0.01	0.15	0.15	0.02	0.25
Dec	1.00	0.97	1.32	0.59	2.40	0.40	0.13	0.61	0.60	0.12	0.12
Annual	58.3	55.6	49.2	37.1	65.9	44.9	20.3	31.2	30.2	6.78	55.8

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.13 Monthly results

Site: Xiang Zhou

Country: China

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	67.8	59.8	46.6	85.2	97.0	133	<1.0	8.1	5.2	11.2	122	3.91	6.96	34.5
Feb	75.1	64.8	35.7	80.2	100.0	171	<1.0	14.0	10.3	15.1	140	3.85	7.73	15.5
Mar	48.1	36.5	44.2	90.4	136	192	<1.0	22.4	18.2	20.9	45.7	4.34	9.19	60.5
Apr	32.7	29.0	27.1	67.3	36.0	59.9	2.7	4.7	3.4	7.8	10.9	4.96	3.34	143.5
May	42.3	41.1	31.8	20.0	35.2	19.0	1.8	6.7	6.3	2.4	37.2	4.43	4.05	209.5
June	7.4	6.7	5.9	13.5	8.4	12.5	<1.0	2.4	2.1	1.5	3.6	5.44	0.91	1267.5
July	8.6	7.8	7.8	14.1	10.7	13.1	1.4	5.4	5.1	1.8	5.4	5.27	0.83	425.5
Aug	12.7	10.5	9.5	38.0	17.2	35.1	2.7	8.1	7.3	5.2	5.0	5.30	1.17	248.0
Sept	27.6	20.3	16.0	140	27.6	122	4.4	10.9	8.2	11.8	17.0	4.77	3.54	264.0
Oct	14.7	13.4	7.6	29.8	12.1	21.8	1.2	4.3	3.8	2.7	8.7	5.06	1.02	139.5
Nov	111	103	134	125	108	119	7.6	59.3	56.7	17.8	81.6	4.09	8.74	5.5
Dec	272	268	66.9	79.5	260	65.7	5.4	140	139	22.2	95.5	4.02	16.1	1.5
Annual	16.5	14.4	12.3	34.8	19.5	34.6	1.7	5.4	4.7	4.0	11.7	4.93	1.84	2815.0
Max.	401	393	394	601	441	518	25.8	140	139	47.7	245	6.15	36.8	
Min.	3.1	2.8	1.3	1.4	4.4	1.3	<1.0	1.0	0.8	0.4	0.7	3.61	0.43	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	2.34	2.06	1.61	2.94	3.35	4.59	0.00	0.28	0.18	0.39	4.22
Feb	1.16	1.00	0.55	1.24	1.55	2.65	0.00	0.22	0.16	0.23	2.17
Mar	2.91	2.21	2.68	5.47	8.20	11.6	0.00	1.35	1.10	1.27	2.77
Apr	4.69	4.17	3.89	9.66	5.16	8.59	0.39	0.67	0.49	1.12	1.56
May	8.86	8.62	6.67	4.19	7.37	3.98	0.37	1.41	1.33	0.50	7.79
June	9.41	8.45	7.51	17.1	10.6	15.9	1.24	3.05	2.71	1.95	4.63
July	3.67	3.33	3.33	6.02	4.55	5.57	0.61	2.29	2.17	0.78	2.29
Aug	3.14	2.61	2.35	9.43	4.26	8.71	0.66	2.00	1.81	1.30	1.24
Sept	7.29	5.35	4.23	37.0	7.29	32.1	1.17	2.87	2.17	3.11	4.48
Oct	2.05	1.87	1.06	4.15	1.68	3.04	0.17	0.60	0.53	0.38	1.21
Nov	0.61	0.57	0.74	0.69	0.59	0.65	0.04	0.33	0.31	0.10	0.45
Dec	0.41	0.40	0.10	0.12	0.39	0.10	<0.01	0.21	0.21	0.03	0.14
Annual	46.5	40.6	34.7	98.1	55.0	97.5	4.65	15.3	13.2	11.2	33.0

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.14 Monthly results

Site: Zhuxiandong

Country: China

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	123	122	53.0	37.1	50.4	20.2	10.2	84.2	83.8	7.4	65.8	4.18	6.52	34.5
Feb	118	116	56.3	40.7	41.9	28.7	8.8	68.6	68.0	8.9	63.1	4.20	6.28	15.0
Mar	144	139	104	105	85.7	89.2	16.2	77.6	75.7	16.4	71.8	4.14	9.17	45.5
Apr	30.6	27.5	27.0	59.9	33.5	52.7	4.4	14.8	13.6	7.1	9.5	5.02	2.65	187.0
May	56.7	54.7	48.5	32.6	55.4	32.2	7.3	31.3	30.6	5.4	41.4	4.38	3.85	99.8
June	8.9	8.2	6.5	12.3	7.5	11.9	1.9	3.9	3.6	1.9	9.4	5.03	0.97	967.3
July	11.1	10.3	9.2	13.7	11.9	13.7	3.2	12.3	12.0	2.2	5.0	5.30	0.95	403.2
Aug	16.9	10.9	12.6	113	18.1	99.8	6.0	20.7	18.5	12.7	1.1	5.97	2.16	173.0
Sept	28.9	19.9	11.0	171	27.1	149	12.1	20.1	16.9	19.0	15.8	4.80	3.75	246.0
Oct	18.3	16.2	12.5	37.3	21.7	35.1	3.5	5.3	4.5	4.2	18.7	4.73	1.75	139.9
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	21.5	19.0	14.7	45.6	18.6	40.7	4.5	13.6	12.7	5.7	13.1	4.88	1.94	2311.2
Max.	257	254	178	612	165	525	33.1	279	277	60.5	158	6.48	15.8	
Min.	3.1	2.6	1.1	3.1	2.8	3.0	<1.0	1.7	1.5	0.8	0.3	3.80	0.41	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	4.23	4.19	1.83	1.28	1.74	0.70	0.35	2.91	2.89	0.25	2.27
Feb	1.77	1.74	0.85	0.61	0.63	0.43	0.13	1.03	1.02	0.13	0.95
Mar	6.57	6.32	4.75	4.77	3.90	4.06	0.74	3.53	3.44	0.75	3.27
Apr	5.73	5.14	5.05	11.2	6.26	9.85	0.82	2.76	2.55	1.33	1.79
May	5.66	5.46	4.84	3.25	5.53	3.21	0.73	3.12	3.05	0.53	4.13
June	8.60	7.91	6.30	11.9	7.24	11.5	1.83	3.76	3.51	1.83	9.06
July	4.48	4.15	3.71	5.53	4.80	5.54	1.30	4.97	4.85	0.90	2.02
Aug	2.92	1.88	2.18	19.6	3.12	17.3	1.03	3.58	3.21	2.19	0.19
Sept	7.11	4.91	2.71	42.0	6.66	36.6	2.98	4.95	4.16	4.67	3.90
Oct	2.57	2.27	1.74	5.22	3.04	4.91	0.49	0.73	0.63	0.59	2.61
Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	49.6	44.0	33.9	105	42.9	94.1	10.4	31.4	29.3	13.2	30.2

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.15 Monthly results

Site: Jakarta

Country: Indonesia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	13.8	13.4	5.0	28.6	14.3	6.5	26.0	2.8	2.7	2.2	13.0	4.89	1.27	128.5
Feb	20.6	20.1	8.8	10.3	20.9	8.5	1.1	2.0	1.8	1.3	18.1	4.74	1.42	785.0
Mar	28.7	28.3	21.3	8.8	29.7	7.6	3.0	7.0	6.8	2.4	34.8	4.46	2.51	210.8
Apr	26.2	25.8	18.1	5.0	25.4	5.2	2.7	4.7	4.6	1.5	34.7	4.46	2.41	204.4
May	26.2	25.5	36.7	15.9	40.5	11.2	2.8	8.3	8.1	2.8	26.9	4.57	2.68	10.6
June	27.0	26.3	38.3	11.0	46.3	12.6	3.3	10.3	10.0	2.8	15.8	4.80	1.66	46.0
July	65.1	63.8	71.9	24.1	82.8	21.2	8.7	21.4	20.9	5.4	64.6	4.19	5.39	8.0
Aug	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Sept	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Oct	46.4	43.8	42.0	13.2	71.3	43.5	2.5	13.6	12.7	2.2	33.5	4.47	3.07	82.0
Nov	13.9	13.4	11.5	9.7	28.8	7.6	1.6	8.3	8.1	1.8	18.5	4.73	1.52	56.0
Dec	15.9	15.2	8.7	13.5	17.2	11.3	<1.0	4.3	4.0	1.4	16.1	4.79	1.43	185.6
Annual	22.7	22.1	14.1	11.4	25.4	10.0	3.5	4.4	4.1	1.7	22.5	4.65	1.78	1716.9
Max.	65	64	71.9	64.5	89	93.9	33.1	26	24	22.8	64.6	5.60	5.39	
Min.	2.8	2.7	2.0	<1.0	6.4	1.5	<1.0	1.3	1.2	<0.4	2.5	4.19	0.42	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	1.77	1.72	0.65	3.68	1.83	0.84	3.34	0.36	0.34	0.28	1.67
Feb	16.2	15.8	6.87	8.07	16.4	6.64	0.83	1.59	1.44	1.02	14.2
Mar	6.06	5.96	4.49	1.85	6.25	1.60	0.63	1.47	1.44	0.50	7.33
Apr	5.35	5.28	3.70	1.01	5.19	1.06	0.55	0.96	0.94	0.31	7.10
May	0.28	0.27	0.39	0.17	0.43	0.12	0.03	0.09	0.09	0.03	0.29
June	1.24	1.21	1.76	0.51	2.13	0.58	0.15	0.47	0.46	0.13	0.73
July	0.52	0.51	0.58	0.19	0.66	0.17	0.07	0.17	0.17	0.04	0.52
Aug	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sept	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	3.80	3.59	3.45	1.08	5.84	3.56	0.20	1.11	1.04	0.18	2.75
Nov	0.78	0.75	0.64	0.54	1.61	0.42	0.09	0.46	0.46	0.10	1.04
Dec	2.95	2.83	1.62	2.51	3.19	2.10	0.14	0.79	0.74	0.27	3.00
Annual	38.9	37.9	24.1	19.6	43.6	17.1	6.03	7.48	7.11	2.87	38.6

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Sept	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.16 Monthly results

Site: Serpong

Country: Indonesia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	17.3	16.8	7.4	7.6	9.4	8.6	1.0	4.6	4.5	1.7	18.1	4.74	1.06	248.3
Feb	23.3	22.4	11.5	18.6	30.4	15.2	1.8	4.2	3.9	2.6	11.2	4.95	1.33	336.5
Mar	26.5	25.7	35.7	19.8	31.9	13.9	1.8	12.0	11.7	1.3	39.8	4.40	2.53	144.7
Apr	23.0	22.6	29.1	21.6	41.1	7.1	1.7	8.5	8.3	1.7	33.9	4.47	2.22	392.2
May	36.1	35.2	38.6	21.2	76.0	15.5	4.8	14.9	14.5	3.1	19.9	4.70	2.59	173.6
June	40.2	39.1	52.9	24.2	94.3	18.3	4.5	22.4	22.0	3.8	12.1	4.92	2.72	193.5
July	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Aug	43.4	42.5	51.4	27.4	85.7	14.8	4.9	22.6	22.3	14.2	9.2	5.03	2.82	171.5
Sept	65.6	64.7	72.4	16.9	79.1	15.0	5.2	2.3	2.2	23.0	76.4	4.12	5.00	44.0
Oct	29.4	28.8	43.5	13.4	58.1	11.1	2.2	1.2	1.0	11.0	21.8	4.66	2.21	165.0
Nov	27.8	27.6	35.1	6.7	39.9	3.4	<1.0	0.4	0.4	3.1	41.1	4.39	2.47	325.4
Dec	15.1	15.0	11.4	15.0	35.7	2.2	<1.0	<0.2	<0.2	0.4	9.4	5.03	0.96	175.0
Annual	27.8	27.2	30.3	17.0	47.2	10.5	2.2	8.0	7.8	4.1	23.9	4.62	2.10	2369.8
Max.	150	145	234	128	280	79.8	21.5	67	65	148	214	6.80	12.8	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.2	3.67	0.16	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	4.29	4.16	1.85	1.88	2.34	2.13	0.26	1.15	1.10	0.41	4.50
Feb	7.85	7.55	3.87	6.25	10.2	5.12	0.59	1.42	1.31	0.86	3.76
Mar	3.84	3.72	5.16	2.87	4.61	2.02	0.27	1.73	1.69	0.18	5.75
Apr	9.01	8.85	11.4	8.47	16.1	2.80	0.68	3.33	3.27	0.65	13.3
May	6.27	6.11	6.70	3.69	13.2	2.68	0.83	2.58	2.52	0.54	3.46
June	7.79	7.57	10.2	4.68	18.3	3.55	0.88	4.34	4.26	0.74	2.35
July	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug	7.45	7.30	8.82	4.70	14.7	2.53	0.85	3.88	3.82	2.44	1.58
Sept	2.88	2.85	3.19	0.74	3.48	0.66	0.23	0.10	0.09	1.01	3.36
Oct	4.86	4.75	7.18	2.22	9.58	1.83	0.37	0.20	0.16	1.82	3.60
Nov	9.04	8.97	11.4	2.18	13.0	1.11	0.26	0.15	0.13	1.02	13.4
Dec	2.65	2.63	1.99	2.62	6.25	0.39	0.03	0.02	0.02	0.07	1.65
Annual	65.9	64.5	71.8	40.3	112	24.8	5.24	18.9	18.4	9.76	56.7

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.17 Monthly results

Site: Kototabang

Country: Indonesia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	4.7	4.4	7.0	3.7	8.1	5.4	2.2	19.9	19.8	2.1	4.8	5.32	0.79	211.0
Feb	2.3	1.8	4.7	3.5	12.3	8.8	3.0	7.9	7.7	1.9	5.2	5.29	0.65	233.2
Mar	4.1	3.8	1.8	4.2	2.7	4.2	6.5	2.5	2.4	0.7	5.9	5.23	0.56	410.0
Apr	1.3	1.1	3.2	1.4	2.3	3.6	4.2	0.6	0.5	<0.4	6.8	5.17	0.49	333.0
May	1.3	1.0	<1.0	2.1	<1.0	3.5	1.9	4.8	4.7	1.6	5.3	5.27	0.35	239.0
June	2.3	2.0	4.1	1.6	10.2	5.4	1.3	4.3	4.1	<0.4	9.0	5.04	0.65	273.0
July	10.0	9.7	6.8	5.1	18.4	4.8	4.7	3.9	3.8	1.5	8.7	5.06	0.97	61.0
Aug	8.3	7.7	8.0	23.7	66.4	10.6	34.8	5.2	4.9	3.7	1.0	6.00	1.24	25.0
Sept	3.1	2.4	1.3	2.7	9.9	12.6	1.8	2.9	2.6	1.1	2.5	5.60	0.42	156.5
Oct	3.1	2.9	3.0	6.9	30.1	4.0	2.6	2.8	2.7	1.0	2.0	5.69	0.35	132.0
Nov	2.1	1.9	<1.0	8.8	4.1	4.9	1.3	3.7	3.6	0.7	5.2	5.28	0.46	178.0
Dec	2.4	2.2	<1.0	4.8	1.6	3.9	1.8	2.9	2.8	0.6	9.2	5.04	0.55	228.8
Annual	2.9	2.6	2.8	3.9	7.5	5.3	3.4	4.9	4.8	1.0	6.0	5.22	0.56	2480.5
Max.	19	18	19.2	72.5	144	40.8	51.1	50	50	6.5	14.8	6.91	2.53	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.1	4.83	0.25	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.99	0.92	1.48	0.78	1.72	1.13	0.46	4.21	4.18	0.44	1.01
Feb	0.53	0.43	1.10	0.81	2.87	2.04	0.70	1.84	1.80	0.45	1.21
Mar	1.67	1.57	0.75	1.70	1.11	1.72	2.65	1.03	0.99	0.31	2.43
Apr	0.44	0.37	1.06	0.47	0.75	1.21	1.39	0.19	0.18	0.10	2.25
May	0.30	0.25	<0.01	0.50	0.09	0.84	0.45	1.15	1.13	0.37	1.27
June	0.62	0.54	1.12	0.44	2.78	1.48	0.35	1.16	1.13	0.04	2.46
July	0.61	0.59	0.42	0.31	1.13	0.29	0.29	0.24	0.23	0.09	0.53
Aug	0.21	0.19	0.20	0.59	1.66	0.26	0.87	0.13	0.12	0.09	0.02
Sept	0.49	0.37	0.20	0.42	1.55	1.97	0.28	0.45	0.41	0.18	0.39
Oct	0.41	0.38	0.40	0.91	3.98	0.52	0.34	0.37	0.36	0.13	0.27
Nov	0.38	0.34	0.08	1.56	0.73	0.87	0.23	0.65	0.63	0.13	0.93
Dec	0.56	0.51	0.12	1.11	0.37	0.88	0.42	0.66	0.64	0.14	2.10
Annual	7.21	6.47	6.93	9.62	18.7	13.2	8.42	12.1	11.8	2.48	14.9

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.18 Monthly results

Site: Bandung

Country: Indonesia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	27.3	27.0	20.2	5.9	43.9	4.4	1.1	7.9	7.9	1.8	11.7	4.93	1.60	193.5
Feb	28.2	27.5	15.3	12.1	50.4	10.8	1.2	13.0	12.8	3.4	3.3	5.48	1.61	96.1
Mar	26.8	26.6	20.6	4.2	29.6	3.5	1.7	1.7	1.6	12.2	18.4	4.74	1.77	219.3
Apr	26.8	26.4	21.4	6.7	40.1	5.7	<1.0	9.6	9.4	2.2	9.7	5.02	1.67	253.5
May	40.6	39.6	33.1	15.0	81.1	15.5	4.3	17.2	16.8	3.8	5.4	5.27	2.32	209.1
June	41.1	40.1	27.4	12.0	74.6	16.7	4.2	21.7	21.4	3.0	1.5	5.83	2.02	86.9
July	128	125	113	65.8	312	51.4	11.9	61.9	60.8	11.5	0.4	6.44	6.16	2.5
Aug	50.9	49.9	40.7	14.5	89.9	17.8	6.4	23.2	22.8	5.8	2.3	5.65	2.72	71.0
Sept	48.4	47.0	48.4	23.9	116	23.0	5.9	28.6	28.1	7.5	0.3	6.54	3.18	75.3
Oct	34.3	33.3	27.2	16.8	62.4	17.0	3.6	18.5	18.2	6.8	1.2	5.91	1.95	201.6
Nov	29.8	29.3	18.3	7.6	34.9	8.3	2.2	12.0	11.8	4.8	11.2	4.95	1.53	265.2
Dec	15.6	15.4	10.0	3.0	20.1	3.9	1.4	6.8	6.7	2.5	3.3	5.48	0.77	660.0
Annual	28.0	27.5	20.7	8.3	44.8	8.6	2.3	11.3	11.1	4.4	6.8	5.17	1.58	2333.9
Max.	208	204	189	72.7	312	69.8	13.9	121	120	39.7	54.3	7.22	8.15	
Min.	3.1	2.6	1.7	1.8	4.7	1.5	<1.0	1.1	1.0	0.9	<0.1	4.27	0.40	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	5.28	5.23	3.91	1.15	8.49	0.85	0.22	1.54	1.52	0.34	2.26
Feb	2.71	2.64	1.47	1.17	4.84	1.04	0.12	1.25	1.23	0.32	0.32
Mar	5.88	5.83	4.52	0.91	6.49	0.78	0.38	0.38	0.36	2.67	4.03
Apr	6.78	6.70	5.42	1.69	10.2	1.45	0.25	2.42	2.39	0.56	2.45
May	8.49	8.29	6.92	3.14	17.0	3.24	0.91	3.59	3.52	0.79	1.13
June	3.57	3.48	2.38	1.04	6.48	1.45	0.37	1.89	1.86	0.26	0.13
July	0.32	0.31	0.28	0.16	0.78	0.13	0.03	0.15	0.15	0.03	<0.01
Aug	3.62	3.54	2.89	1.03	6.38	1.26	0.46	1.65	1.62	0.41	0.16
Sept	3.65	3.54	3.65	1.80	8.74	1.73	0.45	2.15	2.11	0.56	0.02
Oct	6.92	6.71	5.48	3.38	12.6	3.42	0.72	3.73	3.66	1.37	0.25
Nov	7.91	7.78	4.85	2.01	9.26	2.20	0.59	3.17	3.12	1.27	2.98
Dec	10.3	10.2	6.58	1.95	13.3	2.58	0.89	4.46	4.40	1.68	2.17
Annual	65.4	64.2	48.4	19.4	104	20.1	5.38	26.4	25.9	10.3	15.9

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.19 Monthly results

Site: Maros

Country: Indonesia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	5.5	4.7	3.9	34.5	9.5	13.4	11.8	4.0	3.7	2.4	2.1	5.68	0.62	721.6
Feb	7.2	6.0	3.9	33.0	2.6	20.7	1.9	4.3	3.8	3.4	4.1	5.38	0.78	571.0
Mar	4.5	3.7	1.7	9.8	8.3	13.2	2.7	17.7	17.4	3.9	1.6	5.80	0.60	482.8
Apr	5.9	5.3	5.6	13.3	19.3	10.1	5.1	7.0	6.8	1.8	0.7	6.13	0.71	208.0
May	2.5	2.5	2.2	4.0	<1.0	<1.0	2.9	1.2	1.2	<0.4	1.5	5.81	0.33	195.2
June	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
July	9.3	8.8	2.6	17.3	4.6	9.5	5.8	6.1	5.9	2.2	1.7	5.77	1.87	6.3
Aug	11.3	9.3	<1.0	32.9	17.1	33.9	3.9	26.3	25.6	5.4	0.8	6.12	1.30	10.0
Sept	13.2	10.9	<1.0	39.9	3.3	38.9	7.2	58.6	57.8	9.2	0.5	6.30	1.94	5.5
Oct	7.7	5.3	12.4	25.1	30.2	40.2	7.1	29.3	28.4	5.8	1.7	5.77	1.10	114.8
Nov	3.1	1.7	1.2	10.2	3.1	22.4	6.7	14.7	14.2	1.4	3.5	5.45	0.59	186.9
Dec	4.9	4.0	2.8	6.6	11.5	15.0	5.3	5.9	5.5	1.4	2.2	5.65	0.42	534.5
Annual	5.4	4.4	3.5	20.1	8.8	15.7	5.8	8.4	8.0	2.6	2.4	5.63	0.62	3036.6
Max.	19	16	19.0	82.7	34	53.7	33.0	63	62	9.3	8.3	6.30	2.39	
Min.	1.8	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	0.5	0.4	<0.4	0.5	5.08	0.32	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	3.99	3.41	2.81	24.9	6.88	9.68	8.49	2.91	2.70	1.76	1.50
Feb	4.13	3.42	2.25	18.8	1.49	11.8	1.07	2.45	2.20	1.96	2.35
Mar	2.16	1.77	0.83	4.71	4.02	6.38	1.30	8.54	8.40	1.89	0.76
Apr	1.22	1.09	1.16	2.76	4.02	2.10	1.07	1.45	1.40	0.38	0.15
May	0.50	0.49	0.44	0.79	0.07	0.13	0.56	0.24	0.24	<0.01	0.30
June	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
July	0.06	0.06	0.02	0.11	0.03	0.06	0.04	0.04	0.04	0.01	0.01
Aug	0.11	0.09	<0.01	0.33	0.17	0.34	0.04	0.26	0.26	0.05	<0.01
Sept	0.07	0.06	0.00	0.22	0.02	0.21	0.04	0.32	0.32	0.05	<0.01
Oct	0.88	0.60	1.42	2.88	3.47	4.61	0.81	3.36	3.26	0.66	0.20
Nov	0.58	0.33	0.22	1.90	0.59	4.19	1.25	2.75	2.65	0.25	0.66
Dec	2.63	2.15	1.52	3.51	6.12	8.03	2.85	3.13	2.96	0.75	1.20
Annual	16.3	13.5	10.7	60.9	26.9	47.5	17.5	25.5	24.4	7.77	7.15

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	--	--	--	--	--	--	--	--	--	--	--	--	--	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.20 Monthly results

Site: Rishiri

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	43.4	14.1	13.4	528	10.6	486	8.8	12.9	2.5	59.2	19.1	4.72	8.75	53.5
Feb	40.4	17.2	21.2	412	14.8	384	8.2	12.9	4.6	44.5	23.0	4.64	7.24	39.5
Mar	57.4	54.3	39.0	54.2	64.5	51.6	2.8	7.1	6.0	6.9	59.5	4.23	4.86	14.5
Apr	24.7	16.3	17.1	162	27.4	140	3.5	8.9	5.9	21.4	4.5	5.34	3.26	27.5
May	26.4	24.8	23.1	26.7	31.8	27.0	4.6	8.9	8.3	5.1	21.3	4.67	2.20	94.5
June	27.1	24.7	18.9	42.6	33.5	39.4	3.6	3.3	2.4	5.7	19.4	4.71	2.35	32.0
July	11.3	10.8	10.9	8.8	22.9	8.9	1.2	1.0	0.8	1.3	5.9	5.23	0.96	119.1
Aug	14.0	9.5	13.3	74.4	26.1	75.2	1.1	3.1	1.5	9.8	5.1	5.29	1.84	75.5
Sept	16.3	9.3	6.8	123	15.4	117	2.6	4.2	1.7	15.2	6.8	5.17	2.41	112.1
Oct	25.3	8.8	10.3	296	21.4	273	6.0	8.9	3.0	33.9	8.8	5.05	4.92	84.5
Nov	81.6	15.1	18.4	1220	36.9	1110	29.5	27.9	3.9	129	15.8	4.80	17.8	78.6
Dec	32.9	13.3	14.7	350	14.6	325	7.8	11.4	4.4	38.3	8.6	5.06	6.17	96.4
Annual	29.4	14.5	14.7	268	23.6	247	6.6	8.7	3.4	30.0	12.3	4.91	4.86	827.7
Max.	853	170	162	15700	401	13800	324	313	56	1550	151	6.67	213	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.2	3.82	0.17	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	2.32	0.75	0.72	28.3	0.57	26.0	0.47	0.69	0.13	3.17	1.02
Feb	1.59	0.68	0.84	16.3	0.58	15.2	0.32	0.51	0.18	1.76	0.91
Mar	0.83	0.79	0.57	0.79	0.94	0.75	0.04	0.10	0.09	0.10	0.86
Apr	0.68	0.45	0.47	4.45	0.75	3.85	0.10	0.24	0.16	0.59	0.12
May	2.50	2.34	2.19	2.52	3.01	2.55	0.44	0.84	0.79	0.48	2.02
June	0.87	0.79	0.60	1.36	1.07	1.26	0.11	0.11	0.08	0.18	0.62
July	1.35	1.29	1.30	1.05	2.72	1.06	0.14	0.12	0.10	0.16	0.70
Aug	1.06	0.71	1.00	5.62	1.97	5.68	0.09	0.23	0.11	0.74	0.39
Sept	1.83	1.04	0.76	13.7	1.72	13.1	0.29	0.47	0.19	1.71	0.76
Oct	2.14	0.75	0.87	25.0	1.81	23.0	0.51	0.75	0.26	2.87	0.75
Nov	6.41	1.19	1.45	96.3	2.90	87.3	2.32	2.19	0.31	10.1	1.24
Dec	3.17	1.28	1.41	33.8	1.41	31.3	0.75	1.10	0.43	3.69	0.83
Annual	24.3	12.0	12.1	222	19.5	204	5.44	7.22	2.81	24.8	10.2

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	84	84	84	84	84	84	84	84	84	84	84	84	84	100
Feb	94	94	94	94	94	94	94	94	94	94	94	94	94	100
Mar	93	93	93	93	93	93	93	93	93	93	93	93	93	100
Apr	84	84	84	84	84	84	84	84	84	84	84	84	84	100
May	99	99	99	99	99	99	99	99	99	99	99	99	99	100
June	97	97	97	97	97	97	97	97	97	97	97	97	97	100
July	92	92	92	92	92	92	92	92	92	92	92	92	92	100
Aug	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	90	90	90	90	90	90	90	90	90	90	90	90	90	90
Dec	85	85	85	85	85	85	85	85	85	85	85	85	85	100
Annual	94	94	94	94	94	94	94	94	94	94	94	94	94	99

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.21 Monthly results

Site: Ochiishi

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	65.9	13.3	12.8	1030	<1.0	873	20.3	34.0	15.2	100	6.1	5.22	14.9	3.6
Feb	50.0	29.0	59.6	396	29.1	349	10.3	24.6	17.0	44.4	39.7	4.40	6.65	7.0
Mar	10.6	4.5	5.4	117	1.9	102	2.3	5.0	2.8	12.4	8.0	5.10	2.16	46.4
Apr	67.2	12.5	12.4	1030	11.8	906	18.2	25.5	5.9	105	14.7	4.83	15.1	48.5
May	27.5	12.8	11.5	281	14.7	243	5.5	8.9	3.6	28.4	13.7	4.86	4.68	61.0
June	12.2	8.6	8.7	68.5	7.2	59.7	1.5	2.1	0.8	7.5	15.1	4.82	1.77	62.5
July	14.6	13.6	11.4	19.5	11.9	16.6	<1.0	0.6	0.3	1.8	23.1	4.64	1.53	88.5
Aug	9.4	7.5	5.4	34.5	4.3	30.6	<1.0	1.0	0.4	3.7	13.3	4.87	1.18	120.5
Sept	3.3	2.5	2.4	16.1	<1.0	14.3	<1.0	0.5	0.2	1.9	6.4	5.19	0.53	158.6
Oct	34.2	10.4	14.8	436	10.6	394	8.7	8.5	0.5	43.4	17.2	4.76	6.72	34.8
Nov	40.6	12.4	14.0	518	5.9	468	10.6	9.8	0.4	51.9	23.4	4.63	7.22	31.8
Dec	22.4	7.7	9.1	271	3.8	245	5.6	8.4	3.2	28.5	10.9	4.96	4.43	67.0
Annual	18.7	8.4	8.4	194	6.5	171	3.8	5.3	1.7	19.8	13.5	4.87	3.33	730.1
Max.	653	115	144	12000	116	10900	221	260	92	1150	77.8	6.21	34.8	
Min.	1.2	<1.0	<1.0	5.0	<1.0	3.6	<1.0	<0.2	<0.2	<0.4	0.6	4.11	0.28	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.24	0.05	0.05	3.71	0.00	3.14	0.07	0.12	0.05	0.36	0.02
Feb	0.35	0.20	0.42	2.76	0.20	2.43	0.07	0.17	0.12	0.31	0.28
Mar	0.49	0.21	0.25	5.42	0.09	4.71	0.10	0.23	0.13	0.58	0.37
Apr	3.26	0.61	0.60	50.1	0.57	44.0	0.88	1.24	0.29	5.07	0.71
May	1.68	0.78	0.70	17.1	0.90	14.8	0.34	0.54	0.22	1.73	0.84
June	0.76	0.54	0.54	4.28	0.45	3.73	0.09	0.13	0.05	0.47	0.94
July	1.29	1.20	1.01	1.72	1.05	1.47	0.06	0.06	0.03	0.16	2.04
Aug	1.13	0.91	0.65	4.15	0.52	3.69	0.09	0.12	0.05	0.45	1.61
Sept	0.53	0.39	0.39	2.55	0.13	2.26	0.06	0.08	0.03	0.30	1.02
Oct	1.19	0.36	0.52	15.2	0.37	13.7	0.30	0.30	0.02	1.51	0.60
Nov	1.29	0.39	0.45	16.5	0.19	14.9	0.34	0.31	0.01	1.65	0.74
Dec	1.50	0.51	0.61	18.2	0.26	16.4	0.37	0.57	0.22	1.91	0.73
Annual	13.7	6.14	6.16	142	4.7	125	2.78	3.86	1.21	14.5	9.86

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	97	97	97	97	97	97	97	97	97	97	97	97	97	100
Feb	100	100	100	100	100	100	100	100	100	100	97	97	97	97
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	99	99	99	99	99	99	99	99	99	99	97	97	97	100
May	99	99	99	99	99	99	99	99	99	99	97	97	97	100
June	99	99	99	99	99	99	99	99	99	99	98	98	98	100
July	98	98	98	98	98	98	98	98	98	98	97	97	97	100
Aug	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Sept	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Oct	100	100	100	100	100	100	100	100	100	100	91	91	91	100
Nov	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Dec	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Annual	100	100	100	100	100	100	100	100	100	100	98	98	98	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.22 Monthly results

Site: Tappi

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	282	27.6	99.1	5090	5.7	4220	90.7	117	25.6	512	20.0	4.70	74.3	8.7
Feb	69.6	31.0	59.8	723	46.8	641	15.2	23.9	10.1	72.0	66.9	4.17	12.5	31.5
Mar	68.6	41.4	84.7	542	54.4	451	12.4	29.0	19.3	53.3	58.2	4.23	10.6	27.5
Apr	31.0	23.8	29.5	123	34.2	121	3.9	10.6	8.0	14.4	41.3	4.38	4.05	30.0
May	44.8	30.5	45.6	260	31.6	238	9.5	22.0	16.9	28.8	32.9	4.48	5.14	38.4
June	18.4	15.1	22.3	61.8	13.4	55.5	2.1	5.9	4.7	9.2	25.3	4.60	2.52	51.6
July	12.8	11.9	11.8	15.7	15.3	13.9	<1.0	2.6	2.3	2.1	20.0	4.70	1.49	260.0
Aug	12.7	8.6	9.3	78.5	7.3	68.1	1.5	9.7	8.2	9.2	13.3	4.88	2.19	159.0
Sept	38.3	11.0	9.4	527	9.1	453	9.6	12.0	2.4	48.6	16.8	4.78	8.34	31.2
Oct	44.3	25.0	31.9	356	24.5	319	12.3	12.6	5.7	32.9	43.5	4.36	6.76	37.0
Nov	34.0	20.0	20.2	258	17.8	232	8.2	9.5	4.5	27.2	23.8	4.62	4.63	59.1
Dec	32.2	17.5	26.7	273	17.6	245	6.0	9.2	3.9	26.5	32.5	4.49	5.47	90.3
Annual	28.3	16.4	22.4	226	18.2	197	5.4	10.3	6.1	23.1	26.0	4.59	4.32	824.3
Max.	914	697	781	7480	1070	6000	315	380	302	729	245	6.52	74.3	
Min.	3.0	<1.0	2.2	1.5	<1.0	1.1	<1.0	1.0	<0.2	0.6	0.3	3.61	0.45	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	2.44	0.24	0.86	44.0	0.05	36.6	0.79	1.01	0.22	4.44	0.17
Feb	2.19	0.98	1.89	22.8	1.47	20.2	0.48	0.75	0.32	2.27	2.11
Mar	1.89	1.14	2.33	14.9	1.49	12.4	0.34	0.80	0.53	1.47	1.60
Apr	0.93	0.71	0.88	3.69	1.03	3.63	0.12	0.32	0.24	0.43	1.24
May	1.72	1.17	1.75	9.99	1.21	9.13	0.36	0.85	0.65	1.11	1.26
June	0.95	0.78	1.15	3.19	0.69	2.87	0.11	0.30	0.24	0.47	1.31
July	3.32	3.10	3.06	4.07	3.97	3.62	0.19	0.67	0.59	0.56	5.20
Aug	2.02	1.37	1.49	12.5	1.16	10.8	0.23	1.54	1.30	1.46	2.12
Sept	1.20	0.34	0.29	16.4	0.28	14.1	0.30	0.38	0.07	1.52	0.52
Oct	1.64	0.93	1.18	13.2	0.91	11.8	0.46	0.47	0.21	1.22	1.61
Nov	2.01	1.18	1.19	15.2	1.05	13.7	0.49	0.56	0.26	1.61	1.41
Dec	2.91	1.58	2.41	24.7	1.59	22.1	0.54	0.83	0.36	2.40	2.94
Annual	23.3	13.5	18.5	186	15.0	162	4.42	8.52	5.02	19.1	21.4

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	63	63	63	100
Feb	100	100	100	100	100	100	100	100	100	100	97	97	97	100
Mar	100	100	100	100	100	100	100	100	100	100	96	96	96	100
Apr	100	100	100	100	100	100	100	100	100	100	97	97	97	100
May	100	100	100	100	100	100	100	100	100	100	99	99	99	100
June	82	82	82	82	82	82	82	82	82	82	80	80	80	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	97	97	97	100
Oct	100	100	100	100	100	100	100	100	100	100	96	96	96	100
Nov	91	91	91	91	91	91	91	91	91	91	87	87	87	100
Dec	100	100	100	100	100	100	100	100	100	100	98	98	98	100
Annual	98	98	98	98	98	98	98	98	98	98	96	96	96	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.23 Monthly results

Site: Sado-seki

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	59.4	28.6	52.2	600	37.6	510	18.4	23.2	12.2	59.9	49.0	4.31	9.15	51.4
Feb	139	41.6	129	1830	94.6	1620	34.4	52.2	17.2	181	10.0	5.00	8.75	24.8
Mar	31.0	22.7	44.8	162	34.9	137	4.5	14.5	11.6	17.0	44.5	4.35	4.41	35.1
Apr	30.7	24.6	37.8	109	36.4	101	3.9	15.5	13.3	13.7	33.7	4.47	3.84	47.0
May	13.9	12.4	14.0	33.7	10.9	24.8	9.5	7.4	6.8	3.8	15.5	4.81	1.41	71.5
June	8.3	7.6	11.9	14.3	8.6	11.4	1.1	2.7	2.4	2.1	15.9	4.80	1.13	37.3
July	16.7	15.8	17.8	17.2	20.3	14.9	1.1	3.2	2.9	2.4	29.5	4.53	1.99	94.2
Aug	11.5	9.1	10.1	49.4	8.0	40.8	1.0	4.3	3.4	5.1	18.5	4.73	1.75	150.5
Sept	32.6	24.3	19.1	157	22.9	137	6.6	5.3	2.4	15.7	37.8	4.42	4.24	48.5
Oct	35.6	25.1	24.8	204	26.0	174	8.5	9.9	6.1	20.6	36.4	4.44	5.13	161.5
Nov	47.3	16.8	20.2	535	18.6	531	11.6	14.5	3.2	51.7	23.0	4.64	8.52	183.0
Dec	125	29.7	58.2	1850	48.1	1640	35.4	54.6	19.2	164	38.9	4.41	4.57	116.4
Annual	31.0	18.3	23.9	236	21.7	215	7.2	10.3	5.7	23.5	27.9	4.55	4.28	1021.0
Max.	666	145	423	13400	286	11300	590	298	129	1140	107	7.02	35.4	
Min.	3.9	<1.0	2.0	2.3	<1.0	1.8	<1.0	0.9	<0.2	0.7	<0.1	3.97	0.60	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	3.05	1.47	2.68	30.8	1.93	26.2	0.95	1.19	0.63	3.08	2.52
Feb	3.44	1.03	3.20	45.4	2.34	40.1	0.85	1.29	0.43	4.49	0.25
Mar	1.09	0.80	1.57	5.67	1.23	4.82	0.16	0.51	0.41	0.60	1.56
Apr	1.44	1.16	1.78	5.14	1.71	4.73	0.18	0.73	0.63	0.64	1.58
May	0.99	0.88	1.00	2.41	0.78	1.77	0.68	0.53	0.49	0.27	1.11
June	0.31	0.28	0.44	0.53	0.32	0.42	0.04	0.10	0.09	0.08	0.59
July	1.57	1.49	1.68	1.62	1.91	1.40	0.10	0.31	0.28	0.23	2.78
Aug	1.73	1.36	1.53	7.43	1.20	6.14	0.15	0.65	0.51	0.77	2.79
Sept	1.58	1.18	0.92	7.62	1.11	6.65	0.32	0.26	0.11	0.76	1.83
Oct	5.74	4.05	4.00	33.0	4.20	28.1	1.37	1.60	0.99	3.32	5.88
Nov	8.65	3.08	3.70	97.9	3.41	97.2	2.13	2.65	0.58	9.46	4.22
Dec	14.6	3.46	6.77	216	5.60	190	4.11	6.35	2.23	19.1	4.53
Annual	31.6	18.7	24.4	241	22.2	219	7.31	10.5	5.79	24.0	28.5

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	70	70	70	70	70	70	70	70	70	70	65	65	65	100
Feb	72	72	72	72	72	72	72	72	72	72	46	46	46	100
Mar	100	100	100	100	100	100	100	100	100	100	95	95	95	100
Apr	100	100	100	100	100	100	100	100	100	100	99	99	99	100
May	100	100	100	100	100	100	100	100	100	100	94	94	94	100
June	100	100	100	100	100	100	100	100	100	100	99	99	99	100
July	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Aug	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Sept	100	100	100	100	100	100	100	100	100	100	98	98	98	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	75	75	75	75	75	75	75	75	75	75	72	72	72	100
Dec	3	3	3	3	3	3	3	3	3	3	2	2	2	97
Annual	82	82	82	82	82	82	82	82	82	82	80	80	80	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.24 Monthly results

Site: Happo

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	23.3	22.6	19.6	12.4	15.9	10.1	1.4	5.0	4.8	1.7	34.2	4.47	2.05	90.5
Feb	22.7	21.7	22.7	19.3	24.0	16.3	1.6	5.1	4.7	2.6	30.4	4.52	2.14	91.5
Mar	26.5	25.6	28.0	13.2	18.9	15.1	1.5	16.3	16.0	3.4	25.9	4.59	2.14	65.0
Apr	19.4	18.8	19.9	12.7	21.3	10.2	1.2	8.1	7.9	2.6	14.5	4.84	1.48	67.5
May	6.0	6.0	7.5	2.3	5.7	1.0	<1.0	2.0	2.0	<0.4	7.3	5.14	0.55	144.0
June	5.5	5.4	7.1	1.8	7.2	<1.0	<1.0	1.7	1.7	<0.4	6.6	5.18	0.54	277.5
July	13.1	13.1	14.6	2.4	17.9	1.3	<1.0	0.8	0.8	<0.4	22.8	4.64	1.35	130.7
Aug	5.1	5.0	6.2	2.3	4.4	1.0	<1.0	0.8	0.8	<0.4	7.0	5.16	0.56	326.5
Sept	10.5	10.4	7.8	3.5	5.3	2.2	<1.0	0.5	0.5	<0.4	18.8	4.72	1.12	168.0
Oct	15.6	15.3	12.5	7.8	13.7	5.2	<1.0	2.0	1.9	0.7	24.2	4.62	1.43	113.5
Nov	7.7	7.1	6.9	12.0	6.3	9.4	<1.0	2.3	2.1	1.6	7.9	5.10	0.62	128.0
Dec	20.8	19.8	19.8	17.2	21.9	15.8	3.0	8.8	8.5	2.1	17.6	4.75	1.60	42.0
Annual	10.9	10.7	11.0	5.6	10.1	4.1	<1.0	2.7	2.6	0.7	14.7	4.83	1.03	1644.7
Max.	274	253	215	313	129	357	12.4	338	331	36.1	145	6.83	13.1	
Min.	1.7	1.7	2.4	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.1	3.84	0.25	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	2.10	2.05	1.77	1.12	1.44	0.92	0.13	0.45	0.43	0.15	3.10
Feb	2.08	1.99	2.07	1.77	2.19	1.49	0.15	0.46	0.43	0.24	2.78
Mar	1.72	1.67	1.82	0.86	1.23	0.98	0.10	1.06	1.04	0.22	1.68
Apr	1.31	1.27	1.35	0.86	1.44	0.69	0.08	0.55	0.53	0.17	0.98
May	0.87	0.86	1.08	0.33	0.82	0.15	0.04	0.28	0.28	0.03	1.05
June	1.52	1.51	1.96	0.49	2.00	0.15	0.08	0.48	0.48	0.03	1.83
July	1.72	1.71	1.91	0.32	2.34	0.16	0.05	0.11	0.10	0.01	2.99
Aug	1.67	1.64	2.04	0.76	1.44	0.34	0.09	0.26	0.25	0.02	2.27
Sept	1.77	1.74	1.30	0.59	0.89	0.36	0.05	0.09	0.08	0.03	3.17
Oct	1.77	1.73	1.42	0.89	1.56	0.59	0.08	0.23	0.22	0.08	2.75
Nov	0.98	0.91	0.88	1.54	0.80	1.21	0.08	0.30	0.27	0.20	1.01
Dec	0.87	0.83	0.83	0.72	0.92	0.66	0.13	0.37	0.36	0.09	0.74
Annual	18.0	17.6	18.2	9.21	16.6	6.77	0.96	4.44	4.30	1.15	24.2

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	87	87	87	87	87	87	87	87	87	87	86	86	86	100
Feb	87	87	87	87	87	87	87	87	87	87	85	85	85	100
Mar	99	99	99	99	99	99	99	99	99	99	98	98	98	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	99	99	99	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	90	90	90	90	90	90	90	90	90	90	89	89	89	84
Aug	97	97	97	97	97	97	97	97	97	97	97	97	97	90
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	45	45	45	45	45	45	45	45	45	45	42	42	42	100
Dec	17	17	17	17	17	17	17	17	17	17	17	17	17	90
Annual	91	91	91	91	91	91	91	91	91	91	90	90	90	97

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.25 Monthly results

Site: Ijira

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	25.7	18.7	16.2	140	15.0	116	3.1	5.2	2.7	13.1	30.9	4.51	3.68	6.5
Feb	23.4	19.0	33.5	86.2	20.5	72.5	2.4	6.7	5.1	8.6	40.6	4.39	3.42	89.0
Mar	22.2	20.9	30.1	25.4	21.7	22.0	1.1	5.0	4.6	2.9	38.8	4.41	2.55	152.0
Apr	18.7	17.9	20.9	12.8	19.2	12.3	<1.0	2.8	2.5	1.7	29.7	4.53	1.89	257.0
May	16.6	16.1	18.8	8.6	20.9	6.9	<1.0	1.9	1.7	0.9	26.3	4.58	1.65	302.7
June	12.3	12.2	15.9	4.0	9.0	1.8	<1.0	0.8	0.7	<0.4	29.6	4.53	1.52	338.1
July	18.2	17.9	27.8	8.5	24.8	5.5	<1.0	0.6	0.6	0.5	37.6	4.43	2.20	163.0
Aug	23.9	23.4	29.9	10.4	21.4	7.7	<1.0	2.5	2.4	0.7	49.4	4.31	2.71	251.2
Sept	27.2	26.8	42.6	10.3	30.8	7.2	<1.0	1.5	1.3	0.4	60.5	4.22	3.39	202.0
Oct	10.6	10.0	12.4	12.7	8.1	10.3	<1.0	1.0	0.8	1.1	21.0	4.68	1.27	250.5
Nov	14.8	12.3	23.1	49.3	10.2	41.0	1.1	2.1	1.2	4.6	32.9	4.48	2.34	111.8
Dec	31.8	26.8	44.1	98.9	29.1	82.4	2.7	5.2	3.4	9.4	56.0	4.25	4.46	59.5
Annual	18.2	17.3	24.1	18.9	18.0	15.4	<1.0	2.2	1.9	1.7	35.7	4.45	2.18	2249.9
Max.	68	66	87.8	282	94	235	7.4	13	13	27.2	107	5.00	8.14	
Min.	5.3	4.8	6.6	3.2	2.5	<1.0	<1.0	<0.2	<0.2	<0.4	10.0	3.97	0.76	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.17	0.12	0.11	0.91	0.10	0.75	0.02	0.03	0.02	0.09	0.20
Feb	2.08	1.69	2.98	7.67	1.82	6.46	0.21	0.60	0.46	0.77	3.62
Mar	3.37	3.17	4.58	3.86	3.30	3.34	0.17	0.76	0.69	0.45	5.90
Apr	4.79	4.60	5.38	3.28	4.94	3.16	0.23	0.71	0.64	0.43	7.63
May	5.01	4.88	5.70	2.59	6.34	2.09	0.10	0.57	0.53	0.28	7.95
June	4.15	4.12	5.37	1.34	3.04	0.62	0.02	0.26	0.25	0.04	10.0
July	2.97	2.91	4.53	1.38	4.04	0.90	0.03	0.10	0.09	0.07	6.12
Aug	6.00	5.88	7.50	2.61	5.38	1.92	0.07	0.63	0.59	0.16	12.4
Sept	5.50	5.41	8.61	2.09	6.22	1.46	0.11	0.30	0.26	0.09	12.2
Oct	2.65	2.50	3.11	3.17	2.03	2.59	0.11	0.26	0.20	0.27	5.25
Nov	1.65	1.37	2.58	5.51	1.14	4.59	0.13	0.23	0.13	0.51	3.67
Dec	1.89	1.60	2.63	5.89	1.73	4.90	0.16	0.31	0.20	0.56	3.33
Annual	41.0	39.0	54.3	42.5	40.6	34.5	1.43	4.94	4.21	3.92	80.2

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	93	93	93	93	93	93	93	93	93	93	93	93	93	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	99	99	99	99	99	99	99	99	99	99	99	99	99	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.26 Monthly results

Site: Oki

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	57.4	16.6	15.5	762	12.2	677	15.5	18.3	3.7	75.6	26.5	4.58	12.7	96.7
Feb	68.8	22.3	30.0	898	26.9	771	39.7	23.7	7.0	88.8	27.5	4.56	15.0	87.4
Mar	51.1	38.4	42.7	233	44.0	211	7.0	15.3	10.8	26.1	35.9	4.44	6.48	58.7
Apr	19.4	10.2	11.6	178	11.3	153	4.4	6.2	2.9	18.2	11.1	4.95	2.93	106.9
May	18.0	16.1	14.3	38.6	12.4	32.4	1.5	3.0	2.3	4.3	23.6	4.63	2.08	128.9
June	9.5	7.5	9.7	38.4	4.7	33.7	1.5	2.4	1.7	4.1	12.9	4.89	1.43	80.6
July	15.4	8.3	16.3	135	8.4	117	3.6	5.1	2.6	14.3	15.1	4.82	3.03	23.3
Aug	13.7	7.7	10.1	112	5.7	99.8	3.3	3.1	1.0	11.4	14.4	4.84	2.50	131.2
Sept	13.4	11.8	16.5	31.6	10.9	26.8	1.8	1.6	1.0	3.4	22.9	4.64	1.73	79.4
Oct	19.3	14.9	25.0	85.1	14.2	72.3	2.7	5.6	4.0	9.4	29.2	4.53	2.86	59.7
Nov	43.2	17.8	24.1	530	17.9	465	29.2	12.8	2.7	47.2	37.7	4.42	8.75	120.5
Dec	75.2	25.4	26.4	957	24.7	832	20.1	26.8	8.9	95.6	36.6	4.44	14.4	136.9
Annual	35.6	16.4	19.3	371	15.7	324	11.9	10.9	3.9	36.7	25.0	4.60	6.60	1110.1
Max.	675	266	482	12300	430	10900	1280	346	303	1220	394	6.29	161	
Min.	3.7	<1.0	<1.0	6.0	<1.0	3.7	<1.0	0.4	<0.2	0.8	0.5	3.41	0.55	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	5.55	1.60	1.50	73.7	1.18	65.5	1.50	1.77	0.36	7.31	2.56
Feb	6.01	1.95	2.63	78.5	2.35	67.4	3.47	2.07	0.61	7.77	2.41
Mar	3.00	2.25	2.51	13.7	2.58	12.4	0.41	0.90	0.63	1.53	2.11
Apr	2.07	1.09	1.24	19.1	1.21	16.3	0.47	0.66	0.31	1.95	1.19
May	2.33	2.07	1.84	4.98	1.59	4.18	0.19	0.38	0.29	0.56	3.04
June	0.77	0.61	0.78	3.09	0.38	2.72	0.12	0.19	0.13	0.33	1.04
July	0.36	0.19	0.38	3.15	0.20	2.72	0.08	0.12	0.06	0.33	0.35
Aug	1.80	1.01	1.32	14.7	0.75	13.1	0.43	0.41	0.13	1.49	1.89
Sept	1.06	0.94	1.31	2.51	0.87	2.13	0.14	0.12	0.08	0.27	1.82
Oct	1.15	0.89	1.49	5.08	0.85	4.32	0.16	0.33	0.24	0.56	1.74
Nov	5.21	2.14	2.91	63.8	2.15	56.0	3.52	1.54	0.33	5.69	4.55
Dec	10.3	3.48	3.61	131	3.38	114	2.75	3.67	1.21	13.1	5.02
Annual	39.5	18.2	21.5	412	17.4	360	13.2	12.1	4.37	40.8	27.7

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	98	98	98	98	98	98	98	98	98	98	98	98	98	100
Feb	98	98	98	98	98	98	98	98	98	98	98	98	98	100
Mar	98	98	98	98	98	98	98	98	98	98	98	98	98	100
Apr	100	100	100	100	100	100	100	100	100	100	99	99	99	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	97	97	97	97	97	97	97	97	97	97	92	92	92	100
Aug	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Sept	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Oct	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Nov	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Dec	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Annual	99	99	99	99	99	99	99	99	99	99	99	99	99	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.27 Monthly results

Site: Banryu

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	34.3	26.8	33.9	144	21.1	125	3.7	5.9	3.2	14.9	51.0	4.29	4.86	117.5
Feb	51.0	36.4	60.5	270	42.6	242	8.1	23.2	18.0	29.0	38.5	4.41	6.78	55.4
Mar	41.3	34.8	35.4	119	32.7	108	3.9	23.8	21.5	14.6	21.8	4.66	3.90	165.5
Apr	18.8	17.1	16.1	34.0	13.7	29.0	1.4	4.6	3.9	4.1	19.1	4.72	1.91	134.5
May	9.4	8.7	8.7	15.2	6.7	12.1	<1.0	1.9	1.6	1.8	11.1	4.95	1.06	150.0
June	9.4	9.0	13.2	10.5	7.0	7.6	<1.0	1.6	1.4	1.2	16.4	4.79	1.24	121.5
July	29.8	29.1	22.2	15.9	28.8	12.5	<1.0	1.4	1.2	1.7	41.1	4.39	2.83	79.0
Aug	14.2	13.3	14.2	17.9	9.2	15.5	<1.0	1.1	0.8	1.8	23.1	4.64	1.70	143.5
Sept	16.7	15.4	22.6	26.4	13.3	21.5	<1.0	1.3	0.9	2.6	31.7	4.50	2.13	60.3
Oct	28.2	26.9	26.9	25.2	17.9	20.7	1.0	3.2	2.8	2.9	51.0	4.29	3.09	26.0
Nov	37.5	29.1	40.6	159	28.6	140	4.8	6.9	3.9	16.2	54.2	4.27	5.25	101.0
Dec	35.1	24.6	26.4	199	23.1	174	5.2	11.0	7.2	20.3	34.6	4.46	4.95	114.0
Annual	25.8	21.4	24.6	82.5	19.2	72.2	2.5	7.4	5.8	8.9	29.3	4.53	3.10	1268.2
Max.	161	67	159	2070	124	1820	41.7	69	65	206	129	5.76	31.5	
Min.	3.0	2.9	5.3	2.9	2.7	1.0	<1.0	0.6	0.4	0.4	1.7	3.89	0.48	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	4.03	3.14	3.99	16.9	2.48	14.7	0.43	0.69	0.37	1.75	6.00
Feb	2.82	2.02	3.35	15.0	2.36	13.4	0.45	1.29	1.00	1.60	2.13
Mar	6.83	5.76	5.85	19.7	5.40	17.9	0.64	3.94	3.56	2.42	3.61
Apr	2.53	2.30	2.17	4.57	1.84	3.89	0.19	0.61	0.53	0.55	2.56
May	1.42	1.31	1.31	2.29	1.00	1.81	0.12	0.28	0.24	0.26	1.67
June	1.15	1.09	1.60	1.28	0.85	0.92	0.07	0.19	0.17	0.14	1.99
July	2.36	2.30	1.75	1.25	2.27	0.99	0.07	0.11	0.09	0.13	3.25
Aug	2.04	1.90	2.04	2.57	1.32	2.22	0.09	0.16	0.11	0.26	3.31
Sept	1.01	0.93	1.36	1.59	0.80	1.30	0.06	0.08	0.05	0.16	1.91
Oct	0.73	0.70	0.70	0.65	0.47	0.54	0.03	0.08	0.07	0.08	1.33
Nov	3.79	2.94	4.10	16.1	2.89	14.1	0.48	0.70	0.39	1.63	5.47
Dec	4.00	2.80	3.00	22.7	2.64	19.9	0.59	1.25	0.82	2.31	3.94
Annual	32.7	27.2	31.2	105	24.3	91.6	3.22	9.40	7.42	11.3	37.2

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.28 Monthly results

Site: Yusuhara

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	13.7	12.6	10.7	22.9	7.8	16.7	<1.0	1.7	1.4	2.1	29.3	4.53	1.63	149.0
Feb	19.8	18.0	28.9	31.4	23.3	29.1	1.6	5.9	5.3	3.8	30.8	4.51	2.16	99.2
Mar	20.4	19.2	14.1	22.6	17.1	20.2	1.1	6.0	5.6	2.7	30.9	4.51	1.90	199.5
Apr	10.6	10.3	9.2	6.6	9.2	5.6	<1.0	1.8	1.7	1.0	20.3	4.69	1.08	162.0
May	7.9	7.6	6.1	5.2	4.8	4.3	<1.0	1.3	1.2	0.5	16.7	4.78	0.86	301.5
June	7.7	7.6	5.3	2.0	3.8	1.8	<1.0	0.5	0.5	<0.4	17.3	4.76	0.83	318.0
July	8.3	8.1	7.8	3.0	7.9	3.4	<1.0	0.5	0.4	<0.4	19.7	4.71	0.93	150.0
Aug	8.1	7.8	10.1	5.6	5.5	4.9	<1.0	0.8	0.7	0.6	25.4	4.60	1.06	128.0
Sept	4.1	4.0	4.2	2.9	2.1	2.4	<1.0	0.4	0.4	<0.4	12.6	4.90	0.58	282.5
Oct	5.4	5.1	3.9	4.1	2.8	3.7	<1.0	0.5	0.4	0.5	15.7	4.80	0.66	191.0
Nov	13.9	13.1	11.9	15.3	10.6	12.8	<1.0	1.5	1.2	1.4	32.5	4.49	1.65	172.5
Dec	24.4	21.2	25.0	62.5	16.1	53.6	1.5	4.4	3.3	6.5	43.3	4.36	3.20	36.0
Annual	10.2	9.7	9.0	10.0	7.5	8.6	<1.0	1.7	1.5	1.1	21.6	4.67	1.14	2189.2
Max.	337	324	431	738	544	802	25.3	158	153	102	380	6.54	24.3	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.3	3.42	0.23	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	2.03	1.88	1.60	3.41	1.16	2.49	0.12	0.26	0.20	0.31	4.37
Feb	1.96	1.79	2.87	3.12	2.31	2.89	0.16	0.59	0.53	0.38	3.05
Mar	4.07	3.83	2.82	4.52	3.42	4.04	0.22	1.20	1.11	0.54	6.17
Apr	1.72	1.67	1.50	1.07	1.50	0.91	0.07	0.29	0.27	0.17	3.29
May	2.38	2.30	1.85	1.56	1.44	1.29	0.05	0.40	0.37	0.16	5.05
June	2.44	2.41	1.69	0.64	1.20	0.56	0.04	0.17	0.16	0.07	5.50
July	1.25	1.22	1.17	0.45	1.19	0.52	0.03	0.07	0.06	0.05	2.95
Aug	1.04	1.00	1.29	0.72	0.70	0.63	0.03	0.10	0.08	0.08	3.25
Sept	1.17	1.13	1.19	0.82	0.60	0.67	0.04	0.11	0.10	0.08	3.55
Oct	1.02	0.98	0.75	0.78	0.54	0.71	0.03	0.10	0.09	0.10	3.00
Nov	2.39	2.26	2.05	2.63	1.83	2.21	0.10	0.26	0.22	0.25	5.61
Dec	0.88	0.76	0.90	2.25	0.58	1.93	0.06	0.16	0.12	0.23	1.56
Annual	22.4	21.2	19.7	22.0	16.5	18.8	0.93	3.71	3.30	2.42	47.3

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	99	99	99	99	98	99	99	99	99	99	98	98	98	100
Feb	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.29 Monthly results

Site: Hedo

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	38.9	16.4	13.4	416	9.9	373	8.5	10.3	2.3	42.5	27.4	4.56	7.52	114.2
Feb	34.0	10.6	5.9	437	8.1	388	8.8	10.9	2.5	43.8	12.8	4.89	7.02	129.8
Mar	21.7	11.7	17.1	183	16.0	166	5.0	9.2	5.6	19.4	13.2	4.88	3.74	77.5
Apr	10.4	6.1	8.1	76.8	8.5	70.8	2.0	3.9	2.4	8.5	7.0	5.16	1.74	140.5
May	7.4	5.6	6.0	33.0	5.8	29.8	<1.0	1.7	1.0	3.5	9.2	5.04	0.98	260.6
June	6.9	4.2	5.6	49.9	4.6	44.8	1.3	1.8	0.8	5.2	6.5	5.19	1.23	173.6
July	7.6	4.2	6.3	63.8	3.3	56.4	1.6	2.4	1.1	6.5	7.7	5.11	1.44	54.5
Aug	9.8	7.1	10.0	50.7	7.2	45.8	1.3	2.0	1.0	5.3	13.2	4.88	1.54	119.5
Sept	8.2	5.1	4.5	55.6	4.6	50.6	1.8	1.8	0.7	6.2	6.5	5.19	1.29	300.3
Oct	9.5	5.0	4.0	83.1	4.1	74.4	2.0	2.4	0.8	8.8	8.2	5.09	1.63	349.8
Nov	13.4	5.0	5.7	157	3.6	139	3.4	4.0	1.0	16.0	9.0	5.04	2.81	210.8
Dec	85.0	20.2	25.4	1170	15.2	1080	24.6	33.0	9.8	119	20.8	4.68	18.2	30.0
Annual	14.2	6.7	6.9	138	6.1	124	3.2	4.2	1.5	14.2	10.0	5.00	2.61	1961.0
Max.	511	155	114	9310	158	8090	179	212	63	900	200	5.95	124	
Min.	2.4	1.1	<1.0	5.2	<1.0	4.9	<1.0	0.5	<0.2	0.6	1.1	3.70	0.35	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	4.44	1.87	1.53	47.5	1.13	42.6	0.98	1.18	0.26	4.86	3.13
Feb	4.42	1.38	0.77	56.8	1.05	50.3	1.15	1.42	0.33	5.69	1.66
Mar	1.68	0.90	1.32	14.2	1.24	12.8	0.39	0.72	0.44	1.50	1.02
Apr	1.46	0.86	1.13	10.8	1.19	9.94	0.28	0.55	0.33	1.19	0.98
May	1.92	1.45	1.57	8.61	1.51	7.78	0.25	0.44	0.27	0.92	2.40
June	1.19	0.73	0.98	8.67	0.80	7.77	0.22	0.31	0.15	0.90	1.13
July	0.41	0.23	0.34	3.48	0.18	3.07	0.09	0.13	0.06	0.35	0.42
Aug	1.18	0.85	1.19	6.06	0.86	5.47	0.16	0.24	0.12	0.63	1.57
Sept	2.46	1.54	1.34	16.7	1.38	15.2	0.55	0.54	0.21	1.86	1.96
Oct	3.31	1.74	1.39	29.1	1.42	26.0	0.71	0.84	0.28	3.08	2.86
Nov	2.82	1.05	1.21	33.0	0.76	29.4	0.72	0.85	0.21	3.37	1.91
Dec	2.55	0.61	0.76	35.1	0.45	32.3	0.74	0.99	0.29	3.56	0.62
Annual	27.8	13.2	13.5	270	12.0	243	6.23	8.19	2.95	27.9	19.6

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	99	99	99	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	98	98	98	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.30 Monthly results

Site: Ogasawara

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	13.4	7.2	6.5	124	4.5	102	2.9	4.8	2.6	12.2	17.1	4.77	2.29	58.5
Feb	13.3	4.6	5.0	170	5.6	143	3.9	5.7	2.6	15.3	15.4	4.81	3.05	161.5
Mar	12.1	6.5	4.9	111	9.4	93.5	3.1	3.3	1.3	10.3	13.9	4.86	2.22	222.2
Apr	20.8	14.7	14.0	114	16.6	102	3.5	5.4	3.2	12.9	21.1	4.68	2.96	64.0
May	11.5	7.4	3.8	78.4	2.4	68.0	4.8	2.5	1.1	8.8	14.0	4.85	1.76	183.2
June	3.8	2.1	2.8	32.1	<1.0	28.3	<1.0	0.9	0.3	3.7	7.4	5.13	0.85	97.5
July	4.9	2.9	3.1	36.6	2.2	32.1	<1.0	1.5	0.9	4.4	8.9	5.05	0.98	69.5
Aug	4.9	2.9	2.8	38.3	1.3	33.4	<1.0	1.0	0.4	5.0	7.7	5.12	0.94	75.5
Sept	3.4	2.0	2.9	28.5	1.1	24.6	<1.0	0.6	<0.2	3.3	7.0	5.16	0.78	53.0
Oct	4.1	<1.0	2.1	61.1	<1.0	52.8	1.2	1.0	<0.2	7.2	5.2	5.29	1.10	335.9
Nov	8.1	1.5	2.6	121	1.2	109	2.5	2.0	<0.2	13.5	6.8	5.17	1.99	153.5
Dec	10.5	1.1	2.2	177	1.3	161	3.7	2.9	<0.2	20.3	6.2	5.21	2.75	199.3
Annual	9.0	3.8	3.7	98.8	3.4	86.2	2.6	2.5	0.9	10.6	10.0	5.00	1.86	1673.6
Max.	207	201	100	2240	76	1980	977	252	250	234	107	6.52	20.6	
Min.	<1.0	<1.0	<1.0	6.1	<1.0	4.9	<1.0	<0.2	<0.2	0.6	0.3	3.97	0.37	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.78	0.42	0.38	7.25	0.26	5.99	0.17	0.28	0.15	0.72	1.00
Feb	2.14	0.75	0.80	27.5	0.91	23.1	0.63	0.93	0.43	2.47	2.49
Mar	2.69	1.44	1.08	24.6	2.09	20.8	0.68	0.73	0.28	2.28	3.08
Apr	1.33	0.94	0.90	7.28	1.06	6.54	0.23	0.35	0.21	0.83	1.35
May	2.10	1.35	0.70	14.4	0.44	12.5	0.88	0.46	0.21	1.61	2.57
June	0.37	0.21	0.27	3.13	0.06	2.75	0.07	0.08	0.03	0.36	0.72
July	0.34	0.20	0.22	2.55	0.15	2.23	0.07	0.10	0.06	0.30	0.62
Aug	0.37	0.22	0.21	2.90	0.10	2.52	0.07	0.08	0.03	0.37	0.58
Sept	0.18	0.10	0.15	1.51	0.06	1.30	0.04	0.03	<0.01	0.18	0.37
Oct	1.37	0.30	0.71	20.5	0.16	17.7	0.41	0.34	0.03	2.42	1.74
Nov	1.24	0.23	0.40	18.5	0.18	16.7	0.38	0.31	0.02	2.07	1.04
Dec	2.09	0.21	0.45	35.2	0.26	32.1	0.73	0.58	<0.01	4.05	1.24
Annual	15.0	6.38	6.27	165	5.7	144	4.36	4.27	1.44	17.7	16.8

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	99	99	99	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.31 Monthly results

Site: Tokyo

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	31.1	30.5	58.2	18.2	89.3	10.4	2.4	9.5	9.2	2.4	23.0	4.64	2.63	16.9
Feb	8.5	7.7	21.8	12.4	23.8	12.4	1.7	3.7	3.4	1.4	10.0	5.00	1.13	53.0
Mar	21.1	18.4	20.7	58.0	35.4	45.4	2.3	8.8	7.9	6.1	23.9	4.62	2.27	118.0
Apr	13.1	11.4	15.6	28.8	22.2	28.1	1.4	3.9	3.3	3.6	9.2	5.04	1.33	239.3
May	14.3	13.0	13.3	25.6	24.9	21.6	1.0	3.2	2.8	3.1	10.3	4.99	1.31	253.7
June	18.9	18.5	20.9	8.0	26.7	5.3	<1.0	3.0	2.9	2.0	27.8	4.56	1.78	222.5
July	30.1	28.8	48.8	23.5	49.7	20.8	2.0	6.5	6.1	2.9	47.4	4.32	3.26	49.0
Aug	29.6	28.5	40.3	23.2	41.6	17.7	1.2	4.9	4.5	2.6	42.0	4.38	2.83	406.2
Sept	17.1	16.8	25.4	8.1	28.1	5.2	<1.0	3.0	2.9	0.9	24.8	4.60	1.71	168.7
Oct	17.3	15.7	14.6	30.6	17.7	25.9	<1.0	2.4	1.8	3.0	24.6	4.61	1.91	193.9
Nov	19.0	18.3	23.9	16.2	27.7	11.7	<1.0	3.4	3.1	1.7	26.0	4.59	1.91	69.8
Dec	14.5	12.9	22.6	29.7	23.7	25.3	1.4	3.9	3.3	3.1	19.5	4.71	1.73	69.2
Annual	19.6	18.4	24.4	23.7	29.9	19.5	1.1	4.1	3.7	2.8	24.8	4.60	1.96	1860.1
Max.	316	309	611	601	469	510	20.0	155	152	55.7	483	5.93	28.8	
Min.	2.9	2.8	2.5	<1.0	5.1	<1.0	<1.0	0.5	0.5	<0.4	1.2	3.32	0.34	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.52	0.51	0.98	0.31	1.51	0.18	0.04	0.16	0.16	0.04	0.39
Feb	0.45	0.41	1.15	0.66	1.26	0.66	0.09	0.20	0.18	0.07	0.53
Mar	2.49	2.17	2.44	6.84	4.17	5.35	0.27	1.04	0.93	0.72	2.82
Apr	3.13	2.72	3.72	6.89	5.32	6.74	0.32	0.94	0.80	0.86	2.20
May	3.64	3.31	3.37	6.50	6.30	5.47	0.25	0.82	0.70	0.78	2.61
June	4.20	4.12	4.65	1.78	5.95	1.17	0.17	0.67	0.64	0.44	6.18
July	1.47	1.41	2.39	1.15	2.43	1.02	0.10	0.32	0.30	0.14	2.32
Aug	12.0	11.6	16.4	9.44	16.9	7.19	0.48	2.00	1.85	1.07	17.0
Sept	2.89	2.83	4.29	1.36	4.75	0.87	0.09	0.50	0.48	0.15	4.19
Oct	3.35	3.05	2.84	5.94	3.43	5.02	0.16	0.46	0.35	0.58	4.77
Nov	1.33	1.28	1.67	1.13	1.93	0.82	0.05	0.23	0.22	0.12	1.81
Dec	1.00	0.89	1.57	2.05	1.64	1.75	0.09	0.27	0.23	0.21	1.35
Annual	36.5	34.3	45.5	44.0	55.6	36.2	2.12	7.61	6.83	5.17	46.2

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	98	98	98	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.32 Monthly results

Site: Vientian

Country: Lao PDR

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	2.3	2.2	3.5	9.4	6.4	1.0	7.6	5.5	5.5	4.7	2.0	5.70	1.96	19.1
Feb	5.7	5.6	2.3	6.1	6.8	1.6	3.5	3.5	3.5	2.4	1.3	5.87	1.18	21.7
Mar	8.8	8.4	4.7	7.4	9.3	5.7	1.6	3.4	3.3	3.4	1.5	5.83	1.61	131.2
Apr	7.8	7.6	6.7	3.6	4.6	3.6	2.9	4.8	4.7	1.7	2.1	5.69	0.83	96.8
May	6.5	6.3	1.7	3.9	3.8	3.3	2.5	8.4	8.3	1.5	1.4	5.84	0.91	252.2
June	4.5	4.3	7.3	4.3	9.6	2.8	1.3	6.8	6.8	1.2	0.8	6.08	0.48	406.1
July	4.0	3.8	7.5	11.9	11.8	2.6	1.2	4.9	4.9	0.9	0.8	6.12	0.45	319.1
Aug	3.9	3.8	7.2	9.8	10.2	2.5	1.5	5.7	5.7	0.8	0.7	6.18	0.40	237.6
Sept	3.7	3.6	5.9	10.3	5.2	1.7	1.0	3.8	3.7	<0.4	0.4	6.42	0.28	184.1
Oct	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	5.1	4.9	6.0	7.4	8.4	2.9	1.7	5.8	5.7	1.3	1.0	6.01	0.64	1667.8
Max.	10	10	31.0	20.6	18	9.9	7.6	15	15	11.3	2.8	6.83	4.04	
Min.	1.4	1.2	1.1	1.0	2.0	<1.0	<1.0	1.0	0.8	<0.4	0.1	5.55	0.18	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.04	0.04	0.07	0.18	0.12	0.02	0.15	0.11	0.10	0.09	0.04
Feb	0.12	0.12	0.05	0.13	0.15	0.03	0.08	0.08	0.08	0.05	0.03
Mar	1.15	1.11	0.62	0.98	1.22	0.75	0.21	0.44	0.43	0.45	0.19
Apr	0.76	0.73	0.65	0.35	0.45	0.35	0.28	0.46	0.45	0.17	0.20
May	1.64	1.59	0.43	0.98	0.95	0.82	0.63	2.11	2.09	0.39	0.36
June	1.81	1.75	2.95	1.75	3.91	1.13	0.52	2.77	2.74	0.49	0.34
July	1.26	1.21	2.39	3.81	3.75	0.83	0.39	1.57	1.55	0.28	0.24
Aug	0.93	0.90	1.71	2.34	2.42	0.59	0.35	1.36	1.34	0.19	0.16
Sept	0.69	0.67	1.08	1.90	0.95	0.31	0.19	0.70	0.69	0.06	0.07
Oct	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	8.43	8.14	9.95	12.4	14.0	4.86	2.82	9.62	9.51	2.18	1.65

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	90	90	90	90	90	90	90	90	90	90	90	90	90	100
Oct	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Annual	99	99	99	99	99	99	99	99	99	99	99	99	99	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.33 Monthly results

Site: Petaling Jaya

Country: Malaysia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	16.5	16.3	36.8	6.8	18.8	3.4	<1.0	3.4	3.3	<0.4	40.5	4.39	1.81	272.2
Feb	20.7	20.3	41.7	8.3	28.4	5.9	1.6	6.2	6.1	1.0	37.8	4.42	2.04	416.6
Mar	18.0	17.7	44.0	8.2	24.5	6.2	1.7	4.9	4.7	0.9	34.9	4.46	2.02	249.4
Apr	20.0	19.9	39.4	6.3	21.1	2.0	1.0	2.9	2.8	<0.4	48.9	4.31	2.44	610.2
May	22.2	21.8	43.8	13.0	27.7	7.2	1.2	6.1	5.9	1.1	50.4	4.30	2.71	77.6
June	21.0	20.7	44.5	8.9	22.6	5.5	1.4	8.1	8.0	1.3	42.4	4.37	1.91	290.2
July	10.1	9.5	12.2	11.4	15.9	8.7	1.3	0.9	0.7	0.5	14.8	4.83	1.05	66.2
Aug	16.8	16.5	25.8	7.4	19.5	3.8	<1.0	2.3	2.3	<0.4	29.1	4.54	1.49	383.2
Sept	21.3	21.0	33.9	9.7	27.0	4.9	1.7	4.2	4.1	0.7	35.0	4.46	2.31	205.4
Oct	18.5	18.3	35.5	7.2	18.3	3.7	1.3	3.3	3.2	0.5	41.0	4.39	2.10	437.3
Nov	10.7	10.5	28.3	5.1	10.9	2.9	<1.0	2.7	2.6	<0.4	29.6	4.53	1.68	465.6
Dec	12.3	12.0	37.1	7.9	22.4	5.6	<1.0	3.4	3.3	<0.4	26.3	4.58	1.84	272.8
Annual	17.5	17.2	36.1	7.5	20.8	4.2	1.2	3.9	3.8	0.5	37.2	4.43	1.98	3746.7
Max.	53	52	111	40.3	94	36.1	5.6	32	32	5.2	64.6	5.57	3.84	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	2.7	4.19	0.40	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	4.50	4.44	10.0	1.86	5.12	0.92	0.24	0.92	0.90	0.00	11.0
Feb	8.62	8.48	17.4	3.47	11.8	2.48	0.68	2.59	2.54	0.41	15.7
Mar	4.50	4.40	11.0	2.05	6.12	1.56	0.42	1.21	1.18	0.22	8.72
Apr	12.2	12.1	24.1	3.85	12.9	1.21	0.63	1.75	1.72	0.10	29.8
May	1.72	1.69	3.40	1.01	2.15	0.56	0.09	0.47	0.46	0.08	3.91
June	6.11	6.01	12.9	2.59	6.55	1.58	0.40	2.35	2.32	0.37	12.3
July	0.67	0.63	0.80	0.75	1.06	0.58	0.09	0.06	0.05	0.03	0.98
Aug	6.42	6.33	9.90	2.84	7.47	1.47	0.31	0.90	0.87	0.13	11.1
Sept	4.38	4.32	6.96	2.00	5.55	1.00	0.35	0.87	0.85	0.14	7.19
Oct	8.10	8.00	15.5	3.15	7.99	1.60	0.57	1.45	1.42	0.21	17.9
Nov	4.98	4.90	13.2	2.35	5.05	1.34	0.44	1.23	1.21	0.15	13.8
Dec	3.37	3.28	10.1	2.17	6.12	1.52	0.25	0.94	0.91	0.09	7.18
Annual	65.6	64.6	135	28.1	77.9	15.8	4.45	14.7	14.4	1.95	140

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	96	96	96	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	96	96	96	100
June	100	100	100	100	100	100	100	100	100	100	84	84	84	100
July	100	100	100	100	100	100	100	100	100	100	95	95	95	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	94	94	94	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	98	98	98	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.34 Monthly results

Site: Thnah Rata

Country: Malaysia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	1.2	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	1.2	<0.4	4.0	5.40	0.21	215.0
Feb	3.0	2.8	4.8	3.3	3.6	2.9	<1.0	2.5	2.5	<0.4	6.2	5.21	0.40	147.4
Mar	1.5	1.5	1.3	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	5.7	5.24	0.27	402.0
Apr	2.8	2.7	5.0	<1.0	1.9	1.2	<1.0	<0.2	<0.2	<0.4	7.4	5.13	0.40	430.2
May	8.3	8.2	11.0	2.2	10.3	1.8	<1.0	2.6	2.5	<0.4	17.6	4.75	1.16	331.4
June	3.2	3.2	4.6	1.4	<1.0	<1.0	<1.0	0.7	0.7	<0.4	10.8	4.96	0.51	218.2
July	2.9	2.9	4.5	1.0	2.3	<1.0	<1.0	0.3	0.3	<0.4	7.3	5.14	0.45	389.8
Aug	6.7	6.6	9.2	3.3	11.5	2.3	1.0	1.4	1.3	<0.4	9.6	5.02	0.76	340.8
Sept	3.3	3.2	4.1	2.1	<1.0	1.5	<1.0	0.6	0.6	<0.4	10.2	4.99	0.48	324.8
Oct	3.3	3.3	4.3	1.3	2.4	<1.0	<1.0	0.4	0.4	<0.4	7.8	5.11	0.38	344.0
Nov	1.8	1.8	2.7	<1.0	1.9	<1.0	<1.0	0.6	0.6	<0.4	5.3	5.28	0.34	551.4
Dec	1.7	1.6	2.6	1.3	2.0	1.8	<1.0	0.3	0.3	<0.4	5.5	5.26	0.34	229.8
Annual	3.3	3.2	4.5	1.5	3.1	1.2	<1.0	0.8	0.8	<0.4	8.0	5.10	0.47	3924.8
Max.	18	18	24.9	13.9	37	15.0	2.9	14	13	2.1	25.7	5.77	1.59	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	1.7	4.59	0.10	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.26	0.25	0.17	0.20	0.12	0.14	<0.01	0.25	0.25	0.00	0.86
Feb	0.45	0.42	0.71	0.49	0.52	0.43	0.11	0.37	0.36	0.04	0.92
Mar	0.62	0.60	0.50	0.40	0.08	0.35	0.10	0.08	0.07	0.00	2.29
Apr	1.21	1.18	2.16	0.38	0.80	0.51	0.17	0.00	0.00	0.00	3.17
May	2.74	2.71	3.66	0.73	3.41	0.59	0.24	0.86	0.84	0.05	5.83
June	0.70	0.69	0.99	0.31	0.20	0.21	0.10	0.15	0.14	0.00	2.37
July	1.13	1.11	1.77	0.40	0.89	0.23	0.15	0.13	0.13	0.00	2.83
Aug	2.29	2.24	3.12	1.11	3.93	0.79	0.34	0.47	0.45	0.08	3.28
Sept	1.07	1.04	1.34	0.67	0.21	0.48	0.13	0.21	0.20	0.02	3.30
Oct	1.15	1.14	1.48	0.45	0.81	0.16	0.10	0.13	0.13	<0.01	2.68
Nov	1.01	0.99	1.47	0.39	1.02	0.43	0.18	0.36	0.35	0.00	2.91
Dec	0.40	0.37	0.60	0.30	0.45	0.42	0.06	0.07	0.07	0.00	1.27
Annual	12.9	12.6	17.8	5.78	12.2	4.73	1.70	3.03	2.95	0.19	31.4

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	92	92	92	92	92	92	92	92	92	92	92	92	92	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	99	99	99	99	99	99	99	99	99	99	99	99	99	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.35 Monthly results

Site: Danum Valley

Country: Malaysia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	1.5	1.3	<1.0	5.4	<1.0	3.9	<1.0	0.3	0.3	<0.4	8.6	5.07	0.33	234.8
Feb	1.4	1.2	<1.0	3.6	<1.0	2.8	<1.0	<0.2	<0.2	<0.4	6.3	5.20	0.28	277.1
Mar	1.3	1.3	<1.0	3.2	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	4.9	5.31	0.24	268.7
Apr	2.0	1.8	<1.0	14.2	<1.0	3.1	3.6	0.3	0.3	0.4	5.3	5.28	0.42	253.7
May	5.6	5.4	2.1	7.6	20.5	3.0	10.2	0.3	0.3	<0.4	9.2	5.04	0.82	362.5
June	2.6	2.4	3.0	6.2	38.5	3.3	1.1	0.4	0.4	0.7	13.4	4.87	1.13	200.4
July	2.0	1.9	2.5	5.8	32.8	1.8	1.1	0.2	0.2	1.3	2.3	5.63	0.33	157.6
Aug	2.9	2.8	1.5	4.5	3.2	2.0	1.3	0.6	0.6	1.1	3.2	5.49	0.31	149.8
Sept	2.5	2.4	2.7	3.2	4.4	1.7	1.5	0.7	0.7	0.9	2.3	5.65	0.32	274.2
Oct	3.1	2.8	3.4	8.1	19.1	4.6	2.7	0.7	0.6	1.2	2.8	5.55	0.36	302.9
Nov	2.2	2.0	<1.0	4.1	<1.0	3.3	1.6	0.7	0.7	0.6	11.1	4.95	0.66	212.7
Dec	1.5	1.0	<1.0	5.3	1.9	7.3	1.3	<0.2	<0.2	<0.4	2.8	5.55	0.31	304.8
Annual	2.5	2.3	1.4	6.1	9.8	3.2	2.5	0.4	0.3	0.5	6.0	5.22	0.46	2999.2
Max.	10	9	8.9	26.0	159	19.4	18.8	2	2	2.4	30.9	6.31	1.59	
Min.	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.5	4.51	0.17	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.35	0.30	0.00	1.28	0.00	0.91	0.08	0.08	0.07	0.05	2.02
Feb	0.38	0.33	0.00	0.99	0.00	0.78	0.25	0.04	0.03	0.05	1.75
Mar	0.36	0.36	0.07	0.87	0.00	0.05	0.04	0.00	0.00	0.01	1.32
Apr	0.52	0.47	0.02	3.59	0.00	0.79	0.91	0.08	0.07	0.11	1.35
May	2.01	1.95	0.75	2.75	7.45	1.08	3.68	0.11	0.09	0.07	3.34
June	0.53	0.49	0.59	1.25	7.71	0.67	0.22	0.08	0.07	0.15	2.68
July	0.32	0.30	0.39	0.91	5.17	0.28	0.18	0.04	0.03	0.21	0.37
Aug	0.44	0.42	0.23	0.67	0.48	0.31	0.19	0.09	0.08	0.16	0.48
Sept	0.67	0.65	0.73	0.88	1.20	0.48	0.40	0.19	0.18	0.25	0.62
Oct	0.94	0.86	1.03	2.45	5.78	1.40	0.83	0.20	0.19	0.36	0.86
Nov	0.47	0.43	0.00	0.87	0.00	0.69	0.33	0.15	0.14	0.13	2.36
Dec	0.45	0.32	0.18	1.61	0.59	2.23	0.38	0.02	<0.01	0.04	0.87
Annual	7.46	6.89	4.11	18.3	29.3	9.65	7.58	1.06	0.94	1.58	18.1

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	94	94	94	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	65	65	65	100
Aug	100	100	100	100	100	100	100	100	100	100	78	78	78	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	79	79	79	100
Nov	57	57	57	57	57	57	57	57	57	57	57	57	57	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	97	97	97	97	97	97	97	97	97	97	91	91	91	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.36 Monthly results

Site: Kuching

Country: Malaysia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	3.4	3.0	3.1	8.4	2.5	6.7	<1.0	<0.2	<0.2	0.4	6.1	5.22	0.36	402.4
Feb	4.9	3.8	3.6	20.5	3.9	18.5	<1.0	1.7	1.3	1.4	5.1	5.29	0.55	601.8
Mar	2.2	2.1	2.1	2.1	2.3	1.4	<1.0	0.9	0.9	<0.4	4.2	5.38	0.21	372.4
Apr	7.5	7.3	11.8	3.7	7.6	3.1	1.4	5.3	5.2	<0.4	9.3	5.03	0.58	236.2
May	4.6	4.5	6.7	2.7	5.9	2.1	<1.0	2.6	2.5	<0.4	5.1	5.29	0.47	375.6
June	3.4	3.3	5.2	2.4	3.5	1.4	<1.0	1.8	1.8	<0.4	6.6	5.18	0.43	295.8
July	3.7	3.6	4.6	3.1	5.4	2.3	<1.0	3.4	3.4	<0.4	3.0	5.52	0.39	183.5
Aug	6.0	5.9	8.8	3.4	10.0	2.6	<1.0	2.1	2.0	<0.4	8.4	5.08	0.63	326.6
Sept	5.3	5.1	8.1	2.9	12.4	2.9	1.4	3.9	3.8	<0.4	3.2	5.49	0.51	207.6
Oct	4.4	4.2	5.2	3.7	3.9	2.9	<1.0	2.3	2.3	<0.4	6.1	5.21	0.48	373.2
Nov	4.2	3.9	5.4	5.3	3.8	4.8	<1.0	2.3	2.2	<0.4	5.8	5.24	0.48	416.4
Dec	2.0	1.7	1.4	4.6	1.3	3.7	<1.0	<0.2	<0.2	<0.4	4.0	5.40	0.29	494.2
Annual	4.1	3.8	5.0	6.4	4.6	5.4	<1.0	1.9	1.8	<0.4	5.5	5.26	0.44	4285.7
Max.	18	18	37.3	60.4	28	56.0	3.9	16	16	5.0	22.4	5.72	1.41	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	1.9	4.65	0.13	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	1.37	1.21	1.23	3.37	1.01	2.70	0.10	0.04	0.03	0.18	2.44
Feb	2.95	2.28	2.19	12.3	2.36	11.1	0.51	1.02	0.78	0.87	3.09
Mar	0.81	0.78	0.80	0.77	0.86	0.51	0.13	0.34	0.33	0.00	1.57
Apr	1.76	1.72	2.79	0.87	1.79	0.74	0.34	1.25	1.24	0.04	2.20
May	1.74	1.69	2.53	1.03	2.22	0.81	0.23	0.97	0.96	0.00	1.92
June	0.99	0.97	1.54	0.71	1.03	0.43	0.11	0.54	0.53	0.00	1.95
July	0.68	0.66	0.84	0.58	0.99	0.42	0.13	0.63	0.62	0.00	0.55
Aug	1.98	1.92	2.86	1.12	3.26	0.85	0.31	0.68	0.66	0.06	2.73
Sept	1.10	1.07	1.68	0.60	2.58	0.60	0.30	0.80	0.79	0.02	0.67
Oct	1.64	1.57	1.93	1.37	1.46	1.09	0.30	0.87	0.85	0.04	2.28
Nov	1.76	1.64	2.25	2.19	1.57	2.00	0.24	0.95	0.90	0.03	2.41
Dec	0.97	0.86	0.69	2.27	0.63	1.82	0.08	0.09	0.08	0.00	1.97
Annual	17.8	16.4	21.3	27.2	19.7	23.1	2.77	8.19	7.77	1.24	23.8

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.37 Monthly results

Site: Ulaanbaatar

Country: Mongolia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Mar	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Apr	59.1	*	72.4	20.3	*	*	*	*	*	*	2.0	5.69	4.94	0.3
May	22.9	17.7	23.9	15.7	51.4	8.4	4.3	58.5	58.4	3.3	1.1	5.98	3.16	9.4
June	12.7	12.5	14.7	11.0	42.5	1.0	1.5	23.5	23.5	2.5	0.7	6.17	1.17	45.0
July	35.7	35.5	24.0	8.9	59.8	5.0	3.2	39.4	39.3	3.4	0.3	6.54	1.87	56.3
Aug	29.2	29.0	16.6	9.2	53.7	3.6	3.4	66.3	66.2	5.3	0.5	6.26	2.25	35.3
Sept	61.6	57.9	35.7	10.0	64.4	3.7	3.1	56.9	56.8	5.2	0.5	6.33	3.43	7.8
Oct	38.4	38.1	15.2	11.8	97.0	5.2	3.8	75.4	75.2	7.0	0.2	6.74	2.98	1.0
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	27.9	27.3	20.1	10.1	53.3	3.6	2.8	42.9	42.9	3.7	0.5	6.28	1.92	155.0
Max.	220	219	107	38.9	233	17.4	18.2	205	205	15.2	3.7	7.92	9.53	
Min.	7.8	7.8	1.1	2.3	20.0	<1.0	<1.0	8.3	8.3	<0.4	<0.1	5.43	0.64	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr	0.02	*	0.02	<0.01	*	*	*	*	*	*	<0.01
May	0.21	0.17	0.22	0.15	0.48	0.08	0.04	0.55	0.55	0.03	<0.01
June	0.57	0.56	0.66	0.50	1.91	0.05	0.07	1.06	1.06	0.11	0.03
July	2.01	2.00	1.35	0.50	3.37	0.28	0.18	2.22	2.21	0.19	0.02
Aug	1.03	1.02	0.59	0.32	1.89	0.13	0.12	2.34	2.34	0.19	0.02
Sept	0.48	0.45	0.28	0.08	0.50	0.03	0.02	0.44	0.44	0.04	<0.01
Oct	0.04	0.04	0.01	0.01	0.09	<0.01	<0.01	0.07	0.07	<0.01	<0.01
Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	4.33	4.22	3.12	1.56	8.3	0.56	0.43	6.66	6.64	0.57	0.08

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Mar	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Apr	100	0	100	100	0	0	0	0	0	0	100	100	100	100
May	97	83	97	97	83	83	83	83	83	83	100	100	100	100
June	100	99	100	100	99	99	99	99	99	99	100	100	100	100
July	100	99	100	100	99	99	99	99	99	99	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	88	83	88	88	83	83	83	83	83	83	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Annual	99	97	99	99	97	97	97	97	97	97	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.38 Monthly results

Site: Terej

Country: Mongolia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	*	*	*	*	*	*	*	*	*	*	*	*	*	1.4
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Mar	*	*	*	*	*	*	*	*	*	*	*	*	*	0.4
Apr	128	125	76.6	30.8	142	44.4	12.5	85.6	84.6	8.7	1.6	5.79	5.26	4.6
May	11.8	11.3	26.6	16.5	43.5	8.0	8.2	23.0	22.8	2.3	0.8	6.12	1.42	14.9
June	10.1	9.8	17.0	9.1	55.4	4.5	7.8	16.5	16.4	4.5	2.7	5.56	1.19	74.9
July	19.0	17.1	18.8	7.4	48.4	3.5	3.0	16.5	16.4	1.2	4.5	5.35	1.31	45.2
Aug	8.7	8.6	9.4	5.7	47.5	2.0	6.5	10.7	10.7	1.4	1.6	5.80	0.80	41.9
Sept	33.7	33.4	21.2	7.6	44.5	5.4	3.9	18.0	17.9	3.5	19.4	4.71	1.94	13.4
Oct	21.2	20.1	23.9	18.4	29.2	18.4	12.9	27.5	27.1	4.3	0.8	6.11	2.19	7.0
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Dec	12.6	12.2	6.6	4.8	5.0	7.0	3.1	20.7	20.5	6.2	0.7	6.13	2.06	2.6
Annual	16.5	15.8	18.3	9.2	51.1	5.5	6.5	17.9	17.7	3.0	3.7	5.43	1.34	206.3
Max.	201	125	207	62.1	862	64.4	222	143	142	45.7	60.3	7.14	12.5	
Min.	<1.0	<1.0	<1.0	2.8	2.2	<1.0	<1.0	<0.2	<0.2	<0.4	<0.1	4.22	0.21	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	*	*	*	*	*	*	*	*	*	*	*
Feb	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar	*	*	*	*	*	*	*	*	*	*	*
Apr	0.58	0.57	0.35	0.14	0.65	0.20	0.06	0.39	0.39	0.04	<0.01
May	0.18	0.17	0.40	0.25	0.65	0.12	0.12	0.34	0.34	0.03	0.01
June	0.76	0.74	1.27	0.68	4.15	0.34	0.58	1.24	1.23	0.33	0.21
July	0.86	0.78	0.85	0.33	2.19	0.16	0.14	0.75	0.74	0.05	0.20
Aug	0.37	0.36	0.39	0.24	1.99	0.08	0.27	0.45	0.45	0.06	0.07
Sept	0.45	0.45	0.28	0.10	0.60	0.07	0.05	0.24	0.24	0.05	0.26
Oct	0.15	0.14	0.17	0.13	0.20	0.13	0.09	0.19	0.19	0.03	<0.01
Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	0.03	0.03	0.02	0.01	0.01	0.02	<0.01	0.05	0.05	0.02	<0.01
Annual	3.40	3.26	3.77	1.90	10.5	1.13	1.33	3.68	3.66	0.62	0.77

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	99	100	100	99	99	99	99	99	99	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Dec	90	90	90	90	90	90	90	90	90	90	100	100	100	100
Annual	99	99	99	99	99	99	99	99	99	99	99	99	99	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.39 Monthly results

Site: Yangon

Country: Myanmar

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Feb	*	*	*	*	*	*	*	*	*	*	0.7	6.14	1.38	26.0
Mar	*	*	*	*	*	*	*	*	*	*	2.3	5.64	0.78	58.0
Apr	*	*	*	*	*	*	*	*	*	*	1.1	5.94	0.72	120.5
May	*	*	*	*	*	*	*	*	*	*	0.4	6.46	2.42	814.5
June	*	*	*	*	*	*	*	*	*	*	0.4	6.36	0.97	1030.5
July	*	*	*	*	*	*	*	*	*	*	0.3	6.52	0.78	1353.0
Aug	*	*	*	*	*	*	*	*	*	*	0.3	6.53	0.61	1128.0
Sept	*	*	*	*	*	*	*	*	*	*	0.3	6.49	0.60	1059.5
Oct	*	*	*	*	*	*	*	*	*	*	0.5	6.31	0.69	768.9
Nov	*	*	*	*	*	*	*	*	*	*	0.3	6.46	0.64	16.0
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	*	*	*	*	*	*	*	*	*	*	0.4	6.41	0.95	6374.9
Max.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	2.3	6.80	3.09	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.2	5.64	0.38	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	*	*	*	*	*	*	*	*	*	*	0.02
Mar	*	*	*	*	*	*	*	*	*	*	0.13
Apr	*	*	*	*	*	*	*	*	*	*	0.14
May	*	*	*	*	*	*	*	*	*	*	0.29
June	*	*	*	*	*	*	*	*	*	*	0.45
July	*	*	*	*	*	*	*	*	*	*	0.41
Aug	*	*	*	*	*	*	*	*	*	*	0.33
Sept	*	*	*	*	*	*	*	*	*	*	0.35
Oct	*	*	*	*	*	*	*	*	*	*	0.38
Nov	*	*	*	*	*	*	*	*	*	*	<0.01
Dec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	*	*	*	*	*	*	*	*	*	*	2.50

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	0	0	0	0	0	0	0	0	0	0	100	100	100	100
Mar	0	0	0	0	0	0	0	0	0	0	100	100	100	100
Apr	0	0	0	0	0	0	0	0	0	0	100	100	100	100
May	0	0	0	0	0	0	0	0	0	0	100	100	100	80
June	0	0	0	0	0	0	0	0	0	0	100	100	100	100
July	0	0	0	0	0	0	0	0	0	0	100	100	100	100
Aug	0	0	0	0	0	0	0	0	0	0	100	100	100	100
Sept	0	0	0	0	0	0	0	0	0	0	100	100	100	100
Oct	0	0	0	0	0	0	0	0	0	0	100	100	100	100
Nov	0	0	0	0	0	0	0	0	0	0	100	100	100	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Annual	0	0	0	0	0	0	0	0	0	0	100	100	100	98

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.40 Monthly results

Site: Metro Manila

Country: Philippines

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	26.8	25.8	5.5	36.7	142	16.3	20.1	25.2	24.9	7.1	<0.1	7.51	9.02	46.8
Feb	55.7	54.5	10.3	101	141	20.5	34.1	39.8	39.4	7.6	0.2	6.66	5.98	23.9
Mar	60.1	59.5	65.2	25.4	99.8	10.5	19.8	57.4	57.1	5.6	0.2	6.61	4.10	41.8
Apr	19.3	17.3	27.0	10.9	122	33.3	123	70.0	69.2	20.4	<0.1	8.33	20.6	32.6
May	50.7	48.8	19.1	60.0	73.9	32.2	11.3	24.0	23.3	6.9	9.7	5.01	2.73	259.8
June	14.8	14.0	13.5	14.8	41.2	13.5	9.5	9.4	9.1	2.3	3.2	5.49	1.29	370.4
July	35.9	32.7	27.2	35.3	104	53.4	21.2	19.0	17.9	6.8	0.2	6.77	4.32	220.0
Aug	32.1	30.5	48.6	41.1	107	27.8	29.5	11.5	10.9	8.0	0.3	6.55	5.82	467.8
Sept	7.9	6.8	3.7	14.5	7.6	17.4	2.0	3.5	3.1	1.2	4.3	5.36	0.67	433.7
Oct	14.6	13.5	4.3	11.1	18.1	18.1	3.5	6.1	5.7	0.8	0.8	6.10	0.69	226.0
Nov	*	*	*	*	*	*	*	*	*	*	*	*	*	191.9
Dec	*	*	*	*	*	*	*	*	*	*	*	*	*	64.3
Annual	24.9	23.4	21.1	28.7	62.2	24.6	15.6	13.7	13.2	4.6	2.8	5.55	2.88	2381.4
Max.	113	107	97.6	174	426	131	430	245	243	71.6	45.7	8.33	20.6	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	<0.1	4.34	0.48	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	1.25	1.21	0.26	1.72	6.66	0.76	0.94	1.18	1.16	0.33	<0.01
Feb	1.33	1.30	0.25	2.42	3.37	0.49	0.82	0.95	0.94	0.18	<0.01
Mar	2.51	2.49	2.73	1.06	4.17	0.44	0.83	2.40	2.39	0.23	0.01
Apr	0.63	0.56	0.88	0.36	3.96	1.08	4.00	2.28	2.26	0.67	<0.01
May	13.2	12.7	4.97	15.6	19.2	8.38	2.94	6.22	6.04	1.79	2.51
June	5.48	5.18	5.00	5.49	15.3	4.99	3.52	3.49	3.39	0.86	1.19
July	7.89	7.18	5.98	7.77	23.0	11.7	4.65	4.19	3.93	1.49	0.04
Aug	15.0	14.3	22.7	19.2	49.9	13.0	13.8	5.38	5.10	3.73	0.13
Sept	3.42	2.96	1.62	6.28	3.29	7.54	0.86	1.52	1.36	0.52	1.88
Oct	3.29	3.05	0.97	2.50	4.09	4.08	0.80	1.38	1.29	0.19	0.18
Nov	*	*	*	*	*	*	*	*	*	*	*
Dec	*	*	*	*	*	*	*	*	*	*	*
Annual	59.2	55.7	50.2	68.4	148	58.7	37.1	32.7	31.4	11.1	6.75

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	69	69	69	100
Feb	100	100	100	100	100	100	100	100	100	100	63	63	63	100
Mar	100	100	100	100	100	100	100	100	100	100	80	80	80	100
Apr	100	100	100	100	100	100	100	100	100	100	29	29	29	100
May	79	79	79	79	79	79	79	79	79	79	79	79	79	100
June	100	100	100	100	100	100	100	100	100	100	99	99	99	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	84
Aug	85	85	85	85	85	85	85	85	85	85	85	85	85	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	74	74	74	74	74	74	74	74	74	74	74	74	74	100
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Dec	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Annual	82	82	82	82	82	82	82	82	82	82	79	79	79	99

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.41 Monthly results

Site: Los Banos

Country: Philippines

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	5.4	4.0	4.4	27.3	8.5	23.3	2.7	3.8	3.2	3.3	3.4	5.47	0.80	167.1
Feb	15.4	6.8	7.4	160	19.5	143	3.3	7.0	3.9	13.3	0.7	6.16	3.02	37.8
Mar	<1.0	<1.0	5.9	6.9	7.6	7.0	1.1	1.5	1.4	3.1	1.0	5.98	0.36	29.6
Apr	11.9	9.7	9.6	34.0	11.8	36.1	1.6	6.6	5.8	5.3	0.8	6.10	0.98	52.9
May	11.4	10.7	14.6	11.4	13.5	11.6	<1.0	3.2	3.0	6.1	12.7	4.90	1.03	211.8
June	35.8	34.6	6.3	8.4	33.0	21.1	5.4	2.6	2.2	5.6	15.8	4.80	2.07	379.0
July	24.3	23.4	19.9	14.5	14.2	13.8	1.9	9.0	8.7	5.4	28.0	4.55	1.87	101.0
Aug	11.8	11.4	8.1	8.9	12.0	6.9	1.2	3.0	2.8	2.4	14.2	4.85	1.29	250.0
Sept	8.0	7.4	4.3	9.0	<1.0	11.1	<1.0	4.5	4.2	5.2	4.9	5.31	4.20	155.8
Oct	14.6	13.5	4.7	38.0	44.6	17.7	5.8	2.7	2.3	2.7	4.3	5.37	1.13	158.4
Nov	*	*	*	*	*	*	*	*	*	*	*	*	*	215.2
Dec	*	*	*	*	*	*	*	*	*	*	*	*	*	135.2
Annual	18.0	16.9	8.0	18.8	19.6	19.1	2.9	3.7	3.3	4.6	11.2	4.95	1.76	1893.8
Max.	43	41	47.4	163	108	151	13.2	23	22	16.7	83.2	6.36	8.28	
Min.	<1.0	<1.0	1.6	4.7	<1.0	2.9	<1.0	1.3	1.1	<0.4	0.4	4.08	0.35	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.91	0.67	0.73	4.56	1.42	3.89	0.45	0.63	0.54	0.56	0.56
Feb	0.58	0.26	0.28	6.06	0.74	5.39	0.13	0.26	0.15	0.50	0.03
Mar	0.02	<0.01	0.17	0.20	0.23	0.21	0.03	0.05	0.04	0.09	0.03
Apr	0.63	0.51	0.51	1.80	0.62	1.91	0.08	0.35	0.31	0.28	0.04
May	2.41	2.26	3.09	2.42	2.87	2.46	0.15	0.68	0.63	1.29	2.69
June	13.6	13.1	2.38	3.19	12.5	7.99	2.06	1.00	0.82	2.13	6.00
July	2.45	2.37	2.01	1.46	1.43	1.39	0.19	0.91	0.88	0.55	2.82
Aug	2.96	2.86	2.01	2.22	3.00	1.72	0.31	0.75	0.71	0.60	3.56
Sept	1.25	1.15	0.66	1.40	0.02	1.72	0.04	0.69	0.66	0.82	0.76
Oct	2.31	2.14	0.75	6.03	7.07	2.80	0.92	0.42	0.36	0.43	0.68
Nov	*	*	*	*	*	*	*	*	*	*	*
Dec	*	*	*	*	*	*	*	*	*	*	*
Annual	34.2	32.0	15.1	35.5	37.1	36.2	5.51	7.10	6.32	8.80	21.2

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	90	90	90	90	90	90	90	90	90	90	90	90	90	100
Feb	89	89	89	89	89	89	89	89	89	89	89	89	89	100
Mar	84	84	84	84	84	84	84	84	84	84	84	84	84	100
Apr	98	98	98	98	98	98	98	98	98	98	98	98	98	100
May	71	71	71	71	71	71	71	71	71	71	71	71	71	100
June	99	99	99	99	99	99	99	99	99	99	99	99	99	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	98	98	98	98	98	98	98	98	98	98	98	98	98	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	93	93	93	93	93	93	93	93	93	93	100	100	100	100
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Dec	0	0	0	0	0	0	0	0	0	0	0	0	0	97
Annual	76	76	76	76	76	76	76	76	76	76	76	76	76	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.42 Monthly results

Site: Mt. Sto. Tomas

Country: Philippines

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	1.7	1.3	4.6	4.6	<1.0	6.5	4.9	7.2	7.0	1.1	1.1	5.98	0.32	24.0
Feb	2.0	1.6	3.7	2.1	3.4	7.3	2.5	4.5	4.4	3.7	0.6	6.25	0.27	100.6
Mar	8.9	8.4	19.3	7.1	34.3	8.0	2.9	10.1	10.0	1.9	0.9	6.03	0.80	57.1
Apr	5.6	5.3	10.4	4.9	14.9	5.8	1.3	7.5	7.4	3.1	1.1	5.98	0.60	148.8
May	5.1	4.4	4.9	13.8	7.6	11.7	<1.0	1.4	1.1	<0.4	8.2	5.09	0.51	861.1
June	3.0	2.9	5.6	3.0	16.0	3.0	<1.0	2.1	2.0	<0.4	5.0	5.30	0.35	304.6
July	1.9	1.6	3.1	3.5	3.9	4.6	<1.0	4.5	4.4	<0.4	2.7	5.57	0.25	1745.6
Aug	3.7	3.6	1.8	2.7	13.5	2.9	2.1	3.3	3.3	<0.4	1.1	5.95	0.31	841.1
Sept	5.2	5.1	4.1	4.6	21.7	2.1	1.1	0.6	0.6	0.4	2.0	5.70	0.38	728.0
Oct	1.7	1.5	2.7	1.8	10.6	2.2	<1.0	0.6	0.5	0.5	1.0	6.01	0.24	178.0
Nov	3.2	3.0	3.3	2.9	18.4	3.7	<1.0	3.5	3.4	1.4	2.0	5.70	0.31	82.6
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	3.5	3.2	3.9	5.2	10.5	5.1	<1.0	3.1	3.0	<0.4	3.2	5.49	0.35	5078.3
Max.	27	24	32.0	41.5	67	47.6	11.3	32	31	8.2	14.1	6.90	1.70	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.1	4.85	0.19	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.04	0.03	0.11	0.11	<0.01	0.16	0.12	0.17	0.17	0.03	0.03
Feb	0.20	0.16	0.37	0.21	0.34	0.73	0.25	0.46	0.44	0.37	0.06
Mar	0.51	0.48	1.10	0.41	1.96	0.45	0.17	0.58	0.57	0.11	0.05
Apr	0.83	0.78	1.55	0.73	2.22	0.86	0.19	1.11	1.09	0.46	0.16
May	4.35	3.75	4.25	11.9	6.51	10.0	0.00	1.17	0.95	<0.01	7.08
June	0.93	0.87	1.69	0.92	4.86	0.91	0.00	0.64	0.62	0.00	1.51
July	3.26	2.78	5.49	6.09	6.77	7.99	0.05	7.87	7.70	0.00	4.71
Aug	3.14	3.00	1.51	2.27	11.3	2.45	1.78	2.80	2.74	0.26	0.95
Sept	3.80	3.71	2.99	3.36	15.8	1.56	0.83	0.45	0.42	0.32	1.44
Oct	0.29	0.27	0.48	0.32	1.89	0.39	0.08	0.10	0.10	0.09	0.17
Nov	0.26	0.24	0.27	0.24	1.52	0.31	0.06	0.29	0.28	0.12	0.16
Dec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	17.6	16.1	19.9	26.6	53.3	25.9	3.57	15.7	15.1	1.76	16.3

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	95	95	95	95	95	95	95	95	95	95	95	95	95	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	96	96	96	96	96	96	96	96	96	96	96	96	96	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.43 Monthly results

Site: Kanghwa

Country: Republic of Korea

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	17.4	16.2	20.0	22.7	31.7	19.6	4.5	5.2	4.8	1.3	6.3	5.20	1.33	2.0
Feb	59.1	51.0	164	216	225	134	92.7	36.7	33.8	14.8	5.0	5.30	7.06	1.0
Mar	24.2	23.0	47.7	23.4	76.7	19.8	6.1	11.3	10.9	2.6	23.0	4.64	2.50	40.5
Apr	91.8	78.8	70.9	145	105	215	13.4	35.8	31.1	24.4	6.4	5.19	6.62	56.0
May	55.0	52.6	87.0	49.4	110	39.3	11.7	21.8	21.0	6.1	39.8	4.40	5.14	80.5
June	18.4	15.3	26.6	59.9	50.7	52.0	5.6	5.4	4.3	1.8	22.8	4.64	2.76	90.5
July	13.8	12.8	13.9	30.5	14.6	16.0	1.6	12.2	11.8	<0.4	9.4	5.03	1.41	532.0
Aug	21.2	19.1	14.2	38.7	21.2	35.0	2.0	7.3	6.6	0.7	28.3	4.55	1.96	463.3
Sept	35.4	34.3	40.5	22.8	32.7	17.6	2.4	4.1	3.7	0.9	58.9	4.23	3.29	181.6
Oct	40.9	36.4	67.9	87.6	58.2	75.2	14.3	8.5	6.8	6.8	37.7	4.42	4.86	43.4
Nov	95.2	89.7	164	115	118	90.3	18.8	23.8	21.9	9.8	187	3.73	10.8	27.5
Dec	106	92.1	132	234	100	224	87.0	13.6	8.7	33.9	60.2	4.22	10.7	28.0
Annual	27.9	25.6	31.0	45.6	35.4	39.3	5.4	10.8	10.0	2.8	28.4	4.55	2.72	1546.3
Max.	218	176	208	421	275	696	111	118	117	74.7	200	6.80	15.9	
Min.	6.0	4.9	5.4	11.0	2.5	8.1	<1.0	0.8	0.6	<0.4	0.2	3.70	0.73	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.03	0.03	0.04	0.05	0.06	0.04	<0.01	0.01	<0.01	<0.01	0.01
Feb	0.06	0.05	0.16	0.22	0.23	0.13	0.09	0.04	0.03	0.01	<0.01
Mar	0.98	0.93	1.93	0.95	3.11	0.80	0.25	0.46	0.44	0.11	0.93
Apr	5.14	4.42	3.97	8.10	5.85	12.0	0.75	2.00	1.74	1.36	0.36
May	4.43	4.24	7.01	3.98	8.85	3.16	0.94	1.76	1.69	0.49	3.20
June	1.66	1.38	2.41	5.42	4.59	4.71	0.51	0.49	0.39	0.17	2.06
July	7.32	6.81	7.39	16.2	7.77	8.49	0.86	6.48	6.30	0.10	5.01
Aug	9.81	8.83	6.56	17.9	9.82	16.2	0.92	3.40	3.05	0.34	13.1
Sept	6.42	6.23	7.35	4.15	5.94	3.20	0.43	0.74	0.67	0.17	10.7
Oct	1.78	1.58	2.95	3.80	2.53	3.26	0.62	0.37	0.30	0.29	1.64
Nov	2.62	2.47	4.51	3.18	3.24	2.48	0.52	0.66	0.60	0.27	5.16
Dec	2.96	2.58	3.69	6.54	2.81	6.27	2.44	0.38	0.24	0.95	1.69
Annual	43.2	39.5	48.0	70.5	54.8	60.8	8.35	16.8	15.5	4.26	43.9

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.44 Monthly results

Site: Cheju

Country: Republic of Korea

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	50.6	37.9	43.2	286	47.9	212	9.2	9.2	4.6	18.6	74.3	4.13	6.98	48.8
Feb	28.5	23.6	47.8	94.3	43.5	81.6	13.5	34.2	32.5	8.1	12.6	4.90	3.43	19.0
Mar	33.1	25.4	39.1	150	70.2	128	6.6	19.3	16.5	12.4	38.9	4.41	4.66	74.0
Apr	26.8	21.0	41.5	99.6	52.1	97.3	5.3	19.3	17.2	8.5	26.3	4.58	3.92	45.1
May	12.0	9.0	16.0	41.7	21.9	50.1	8.8	3.8	2.7	1.7	16.9	4.77	1.91	104.5
June	11.2	8.6	14.1	42.6	11.1	43.8	12.4	3.2	2.2	0.6	8.3	5.08	1.39	244.0
July	25.9	16.1	25.3	161	16.1	161	3.0	13.6	10.1	4.3	6.0	5.22	3.24	49.0
Aug	27.7	18.9	20.9	115	9.7	146	8.4	14.2	11.0	8.7	14.3	4.85	2.79	53.5
Sept	18.8	15.6	19.1	48.0	15.8	52.2	2.3	9.1	8.0	2.0	20.1	4.70	2.13	84.6
Oct	35.3	26.0	28.3	107	23.9	155	2.7	9.6	6.2	2.2	29.3	4.53	3.58	41.0
Nov	82.3	45.6	64.2	644	33.6	608	28.2	23.4	10.3	64.1	36.3	4.44	11.5	61.2
Dec	34.6	11.8	19.5	360	39.5	379	42.9	14.6	6.4	34.4	10.0	5.00	6.55	18.0
Annual	26.2	18.2	26.5	136	26.2	133	10.4	10.5	7.6	9.7	21.5	4.67	3.47	842.7
Max.	244	147	516	2290	404	2160	96.9	235	226	248	158	6.40	35.1	
Min.	5.1	3.4	4.8	15.8	2.7	13.3	1.1	1.5	<0.2	<0.4	0.4	3.80	0.80	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	2.47	1.85	2.11	14.0	2.34	10.3	0.45	0.45	0.23	0.91	3.63
Feb	0.54	0.45	0.91	1.79	0.83	1.55	0.26	0.65	0.62	0.15	0.24
Mar	2.45	1.88	2.89	11.1	5.20	9.45	0.49	1.43	1.22	0.92	2.88
Apr	1.21	0.95	1.87	4.49	2.35	4.39	0.24	0.87	0.77	0.38	1.19
May	1.26	0.94	1.67	4.36	2.29	5.24	0.92	0.40	0.29	0.18	1.76
June	2.74	2.09	3.44	10.4	2.71	10.7	3.02	0.77	0.54	0.15	2.03
July	1.27	0.79	1.24	7.88	0.79	7.90	0.15	0.67	0.50	0.21	0.30
Aug	1.48	1.01	1.12	6.16	0.52	7.81	0.45	0.76	0.59	0.46	0.76
Sept	1.59	1.32	1.61	4.06	1.33	4.42	0.20	0.77	0.68	0.17	1.70
Oct	1.45	1.07	1.16	4.39	0.98	6.35	0.11	0.39	0.26	0.09	1.20
Nov	5.04	2.79	3.93	39.4	2.06	37.2	1.73	1.43	0.63	3.92	2.22
Dec	0.62	0.21	0.35	6.47	0.71	6.82	0.77	0.26	0.12	0.62	0.18
Annual	22.1	15.3	22.3	114	22.1	112	8.78	8.86	6.43	8.16	18.1

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.45 Monthly results

Site: Imsil

Country: Republic of Korea

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	85.6	70.5	46.5	327	111	251	17.7	48.2	42.8	25.0	1.5	5.81	7.79	25.6
Feb	31.7	26.5	88.8	126	159	85.4	27.5	25.7	23.9	9.8	15.8	4.80	4.93	6.5
Mar	28.8	26.4	57.6	41.7	123	39.9	8.6	13.9	13.1	4.1	7.9	5.10	3.13	31.5
Apr	26.9	25.5	18.4	20.7	49.9	21.9	9.5	4.1	3.6	0.6	1.5	5.81	1.30	30.5
May	8.9	7.7	11.5	16.0	20.0	19.1	3.3	5.7	5.3	0.9	6.4	5.19	0.95	115.0
June	10.1	9.5	13.6	14.1	11.7	10.9	5.2	4.2	4.0	0.6	9.0	5.04	1.03	150.6
July	19.0	17.9	13.7	18.9	16.1	18.4	3.3	2.9	2.5	<0.4	9.3	5.03	1.13	320.6
Aug	20.0	18.8	23.8	23.4	27.6	20.2	1.3	5.2	4.8	0.4	28.0	4.55	1.41	107.1
Sept	31.6	30.1	34.2	38.7	20.8	24.8	3.6	6.0	5.5	0.8	56.4	4.25	3.67	26.2
Oct	10.2	8.7	<1.0	30.8	<1.0	24.8	1.2	7.8	7.3	<0.4	2.0	5.70	0.83	13.0
Nov	78.8	69.0	179	204	145	161	41.7	19.7	16.2	18.7	63.1	4.20	9.24	19.0
Dec	61.1	44.0	66.2	258	90.7	284	40.0	60.0	53.9	21.5	0.1	7.00	7.18	8.7
Annual	21.0	19.0	22.6	36.6	29.9	32.0	5.6	6.9	6.2	2.0	13.1	4.88	1.75	854.3
Max.	96	78	183	382	159	292	42.7	60	54	29.3	79.4	7.00	9.39	
Min.	2.6	2.2	<1.0	8.7	<1.0	5.3	<1.0	1.7	1.5	<0.4	0.1	4.10	0.00	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	2.19	1.80	1.19	8.38	2.85	6.41	0.45	1.23	1.09	0.64	0.04
Feb	0.21	0.17	0.58	0.82	1.03	0.55	0.18	0.17	0.16	0.06	0.10
Mar	0.91	0.83	1.82	1.31	3.89	1.26	0.27	0.44	0.41	0.13	0.25
Apr	0.82	0.78	0.56	0.63	1.52	0.67	0.29	0.13	0.11	0.02	0.05
May	1.02	0.89	1.33	1.84	2.30	2.20	0.38	0.66	0.61	0.10	0.74
June	1.52	1.42	2.05	2.13	1.76	1.65	0.78	0.64	0.60	0.09	1.36
July	6.10	5.74	4.40	6.07	5.17	5.91	1.05	0.93	0.80	0.04	2.97
Aug	2.15	2.02	2.55	2.51	2.95	2.16	0.14	0.56	0.51	0.04	3.00
Sept	0.83	0.79	0.90	1.01	0.54	0.65	0.09	0.16	0.14	0.02	1.48
Oct	0.13	0.11	<0.01	0.40	0.00	0.32	0.02	0.10	0.09	<0.01	0.03
Nov	1.50	1.31	3.40	3.88	2.75	3.06	0.79	0.37	0.31	0.35	1.20
Dec	0.53	0.38	0.58	2.25	0.79	2.47	0.35	0.52	0.47	0.19	<0.01
Annual	17.9	16.3	19.3	31.2	25.5	27.3	4.79	5.91	5.32	1.70	11.2

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.46 Monthly results

Site: Mondy

Country: Russia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Mar	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Apr	32.0	30.4	14.0	18.9	18.8	26.0	7.8	139	138	28.0	0.1	6.85	4.69	5.1
May	14.4	14.1	9.4	3.4	11.7	4.6	3.7	20.0	19.9	7.0	0.6	6.22	1.00	14.1
June	10.3	10.2	9.5	4.2	17.4	<1.0	2.0	5.3	5.3	1.1	8.4	5.07	0.75	47.6
July	3.5	3.4	6.0	3.0	5.8	<1.0	<1.0	0.8	0.8	0.6	9.6	5.02	0.60	77.0
Aug	5.5	5.5	9.4	4.0	11.8	<1.0	2.6	3.2	3.2	0.8	4.5	5.35	0.48	21.6
Sept	4.2	4.1	2.9	2.7	1.8	<1.0	1.2	2.4	2.3	0.4	4.0	5.40	0.32	24.1
Oct	6.8	6.6	9.2	7.2	10.6	3.5	4.1	8.5	8.4	2.0	3.1	5.51	0.60	13.4
Nov	9.7	9.5	7.3	13.5	16.7	3.5	4.1	28.7	28.6	4.5	0.6	6.23	1.04	3.1
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	7.1	7.0	7.5	4.2	9.9	1.8	2.0	8.0	7.9	2.0	6.7	5.17	0.73	206.0
Max.	45	42	25.8	28.2	49	40.0	12.8	197	196	32.0	12.0	7.14	6.21	
Min.	1.7	1.7	1.9	2.0	1.1	<1.0	<1.0	<0.2	<0.2	0.4	<0.1	4.92	0.32	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr	0.16	0.15	0.07	0.10	0.10	0.13	0.04	0.71	0.70	0.14	<0.01
May	0.20	0.20	0.13	0.05	0.16	0.06	0.05	0.28	0.28	0.10	<0.01
June	0.49	0.49	0.45	0.20	0.83	0.03	0.10	0.25	0.25	0.05	0.40
July	0.27	0.27	0.46	0.23	0.45	0.07	0.07	0.06	0.06	0.05	0.74
Aug	0.12	0.12	0.20	0.09	0.25	<0.01	0.06	0.07	0.07	0.02	0.10
Sept	0.10	0.10	0.07	0.07	0.04	0.02	0.03	0.06	0.06	0.01	0.10
Oct	0.09	0.09	0.12	0.10	0.14	0.05	0.06	0.11	0.11	0.03	0.04
Nov	0.03	0.03	0.02	0.04	0.05	0.01	0.01	0.09	0.09	0.01	<0.01
Dec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	1.47	1.45	1.54	0.87	2.0	0.38	0.42	1.64	1.63	0.41	1.38

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Mar	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.47 Monthly results

Site: Listvyanka

Country: Russia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Feb	33.1	32.3	69.1	9.1	13.5	12.8	4.6	38.7	38.4	8.0	8.9	5.05	2.18	12.1
Mar	36.9	36.4	41.4	5.7	19.0	9.2	4.1	32.4	32.2	5.7	3.8	5.42	1.76	7.3
Apr	50.1	49.2	46.1	12.1	41.2	14.6	5.1	70.2	69.9	8.8	2.7	5.57	2.79	6.9
May	32.5	32.4	21.7	4.2	49.1	2.5	2.0	8.0	7.9	1.6	28.6	4.54	2.16	36.5
June	24.9	24.9	10.5	2.1	28.3	<1.0	<1.0	4.1	4.1	1.0	30.7	4.51	1.80	109.5
July	14.8	14.7	9.4	1.3	8.3	<1.0	<1.0	2.3	2.3	0.7	27.6	4.56	1.27	62.8
Aug	9.9	9.8	6.4	1.5	5.4	<1.0	<1.0	1.9	1.8	0.6	19.5	4.71	0.93	64.0
Sept	22.1	21.9	10.7	20.2	13.5	2.4	16.9	7.1	7.0	1.8	20.2	4.69	1.82	49.0
Oct	20.1	19.9	18.5	2.3	6.6	3.5	1.6	9.3	9.2	2.4	23.8	4.62	1.56	10.5
Nov	19.1	18.7	17.4	4.1	12.2	5.4	2.5	12.4	12.3	3.0	11.2	4.95	1.12	13.9
Dec	14.7	14.3	30.6	6.7	4.1	5.6	1.4	20.6	20.5	4.2	7.1	5.15	1.15	7.9
Annual	21.3	21.2	15.4	5.1	18.9	2.5	3.4	8.2	8.1	1.8	23.2	4.63	1.58	390.6
Max.	177	175	171	212	319	63.1	192	162	162	25.0	72.4	7.10	6.88	
Min.	7.4	7.4	3.7	<1.0	2.2	<1.0	<1.0	0.5	0.5	<0.4	<0.1	4.14	0.67	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	0.40	0.39	0.83	0.11	0.16	0.15	0.06	0.47	0.46	0.10	0.11
Mar	0.27	0.26	0.30	0.04	0.14	0.07	0.03	0.24	0.23	0.04	0.03
Apr	0.35	0.34	0.32	0.08	0.28	0.10	0.04	0.48	0.48	0.06	0.02
May	1.19	1.18	0.79	0.15	1.79	0.09	0.07	0.29	0.29	0.06	1.04
June	2.73	2.72	1.15	0.23	3.10	0.10	0.10	0.45	0.44	0.11	3.36
July	0.93	0.93	0.59	0.08	0.52	0.05	0.05	0.15	0.14	0.05	1.73
Aug	0.63	0.63	0.41	0.10	0.34	0.06	0.05	0.12	0.12	0.04	1.25
Sept	1.08	1.07	0.53	0.99	0.66	0.12	0.83	0.35	0.34	0.09	0.99
Oct	0.21	0.21	0.19	0.02	0.07	0.04	0.02	0.10	0.10	0.02	0.25
Nov	0.27	0.26	0.24	0.06	0.17	0.08	0.03	0.17	0.17	0.04	0.16
Dec	0.12	0.11	0.24	0.05	0.03	0.04	0.01	0.16	0.16	0.03	0.06
Annual	8.33	8.27	6.02	2.00	7.4	0.97	1.32	3.19	3.17	0.69	9.06

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.48 Monthly results

Site: Irkutsk

Country: Russia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	65.1	63.3	47.8	39.1	76.8	30.3	6.4	96.6	96.0	22.1	1.6	5.79	4.19	7.4
Feb	85.9	81.9	49.9	72.3	42.3	67.0	6.5	92.4	91.0	19.7	0.3	6.56	4.89	9.4
Mar	55.6	52.2	26.5	54.1	36.6	56.6	8.5	59.7	58.4	9.3	4.4	5.36	3.47	11.1
Apr	95.7	91.0	55.7	76.7	48.5	78.3	10.4	174	172	16.8	0.1	6.86	6.63	10.6
May	56.0	55.4	29.0	13.7	70.4	10.0	7.4	42.7	42.5	8.6	14.8	4.83	3.11	47.8
June	34.8	34.8	9.3	14.0	34.8	1.5	4.8	10.5	10.4	3.2	38.4	4.42	2.59	112.5
July	26.5	26.4	13.7	3.0	25.2	2.8	2.7	14.7	14.6	3.7	11.0	4.96	1.35	122.1
Aug	33.7	33.5	14.7	7.4	25.4	1.9	4.4	17.8	17.8	4.5	20.6	4.69	2.73	80.3
Sept	31.1	30.9	10.3	5.2	27.0	2.7	14.6	25.4	25.3	6.8	6.2	5.21	1.61	64.3
Oct	45.5	45.0	16.2	16.7	27.9	8.4	54.5	47.1	46.9	13.4	15.9	4.80	3.13	30.6
Nov	44.3	41.7	23.3	57.4	35.5	44.0	9.4	43.1	42.1	10.1	1.4	5.86	2.70	18.6
Dec	51.1	48.3	34.2	71.7	46.4	46.9	5.7	88.9	87.9	12.0	0.7	6.16	3.70	12.7
Annual	38.5	37.9	17.1	15.9	34.4	10.0	9.0	29.5	29.2	6.4	17.1	4.77	2.48	527.4
Max.	609	601	159	295	350	261	1870	798	797	320	79.4	7.69	47.5	
Min.	6.4	6.3	2.1	<1.0	10.5	<1.0	<1.0	1.0	1.0	0.4	<0.1	4.10	0.49	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.48	0.47	0.35	0.29	0.57	0.22	0.05	0.71	0.71	0.16	0.01
Feb	0.81	0.77	0.47	0.68	0.40	0.63	0.06	0.87	0.86	0.19	<0.01
Mar	0.62	0.58	0.29	0.60	0.41	0.63	0.09	0.66	0.65	0.10	0.05
Apr	1.01	0.96	0.59	0.81	0.51	0.83	0.11	1.84	1.82	0.18	<0.01
May	2.68	2.65	1.39	0.65	3.37	0.48	0.35	2.04	2.03	0.41	0.71
June	3.92	3.91	1.05	1.57	3.91	0.17	0.54	1.18	1.17	0.36	4.32
July	3.24	3.22	1.67	0.36	3.08	0.34	0.33	1.79	1.79	0.45	1.34
Aug	2.70	2.69	1.18	0.59	2.04	0.15	0.35	1.43	1.43	0.37	1.65
Sept	2.00	1.99	0.66	0.33	1.74	0.17	0.94	1.63	1.63	0.44	0.40
Oct	1.39	1.38	0.50	0.51	0.85	0.26	1.67	1.44	1.44	0.41	0.49
Nov	0.82	0.78	0.43	1.07	0.66	0.82	0.18	0.80	0.78	0.19	0.03
Dec	0.65	0.61	0.43	0.91	0.59	0.60	0.07	1.13	1.12	0.15	<0.01
Annual	20.3	20.0	9.02	8.39	18.1	5.29	4.74	15.5	15.4	3.40	9.01

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.49 Monthly results

Site: Primorskaya

Country: Russia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	122	118	148	34.1	42.2	65.2	12.8	113	112	21.0	6.4	5.19	6.30	1.0
Feb	*	*	*	*	*	*	*	*	*	*	3.0	5.52	*	0.6
Mar	95.3	91.5	74.2	56.7	126	63.5	33.6	37.3	35.9	10.6	39.2	4.41	6.06	70.4
Apr	66.4	64.6	62.6	40.1	103	30.7	6.4	31.5	30.8	12.1	18.9	4.72	4.14	64.8
May	49.0	47.9	42.7	19.4	57.2	18.0	8.0	30.1	29.7	7.1	15.4	4.81	2.85	87.0
June	7.6	7.1	6.5	11.9	10.3	7.7	4.3	2.7	2.5	1.0	7.9	5.10	0.79	49.6
July	10.8	10.5	9.3	8.1	12.3	5.7	2.8	4.6	4.5	1.4	9.3	5.03	0.86	130.4
Aug	12.0	11.8	8.7	8.1	10.2	3.1	1.4	5.2	5.1	2.2	11.9	4.92	0.95	54.2
Sept	69.9	68.7	29.6	25.8	84.9	20.9	22.6	24.6	24.2	15.7	7.8	5.11	3.31	21.7
Oct	41.4	38.6	32.8	50.5	40.1	46.3	3.8	15.2	14.2	8.3	26.5	4.58	2.99	45.3
Nov	86.9	85.1	57.6	40.9	73.6	29.5	12.4	67.8	67.2	13.4	2.1	5.69	4.09	9.7
Dec	23.1	21.6	26.5	28.7	21.0	24.1	2.7	25.4	24.9	5.5	2.3	5.64	1.70	18.0
Annual	40.6	39.3	33.1	25.6	50.6	22.9	9.0	19.4	18.9	6.3	16.3	4.79	2.58	552.7
Max.	382	370	225	640	249	609	282	400	396	98.0	100	7.21	18.9	
Min.	1.0	<1.0	<1.0	3.1	<1.0	<1.0	<1.0	0.7	0.5	<0.4	<0.1	4.00	0.35	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.12	0.12	0.15	0.03	0.04	0.07	0.01	0.11	0.11	0.02	<0.01
Feb	*	*	*	*	*	*	*	*	*	*	<0.01
Mar	6.71	6.44	5.22	3.99	8.84	4.47	2.37	2.63	2.53	0.75	2.76
Apr	4.30	4.18	4.06	2.60	6.69	1.99	0.41	2.04	2.00	0.79	1.23
May	4.26	4.17	3.72	1.69	4.98	1.57	0.70	2.62	2.59	0.62	1.34
June	0.38	0.35	0.32	0.59	0.51	0.38	0.21	0.13	0.12	0.05	0.39
July	1.41	1.37	1.21	1.05	1.61	0.74	0.36	0.60	0.58	0.19	1.21
Aug	0.65	0.64	0.47	0.44	0.55	0.17	0.07	0.28	0.28	0.12	0.65
Sept	1.52	1.49	0.64	0.56	1.84	0.45	0.49	0.53	0.52	0.34	0.17
Oct	1.88	1.75	1.48	2.29	1.82	2.10	0.17	0.69	0.64	0.38	1.20
Nov	0.84	0.83	0.56	0.40	0.71	0.29	0.12	0.66	0.65	0.13	0.02
Dec	0.42	0.39	0.48	0.52	0.38	0.43	0.05	0.46	0.45	0.10	0.04
Annual	22.5	21.7	18.3	14.2	28.0	12.7	4.97	10.7	10.4	3.46	9.02

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	70	70	70	70	70	70	70	70	70	70	100	100	70	100
Feb	0	0	0	0	0	0	0	0	0	0	100	100	0	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	99	99	99	99	99	99	99	99	99	99	100	100	99	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	99	99	99	99	99	99	99	99	99	99	100	100	99	100
Sept	95	95	95	95	95	95	95	95	95	95	100	100	95	100
Oct	99	99	99	99	99	99	99	99	99	99	100	100	99	100
Nov	96	96	96	96	96	96	96	96	96	96	100	100	96	100
Dec	98	98	98	98	98	98	98	98	98	98	100	100	98	100
Annual	99	99	99	99	99	99	99	99	99	99	100	100	99	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.50 Monthly results

Site: Bangkok

Country: Thailand

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	15.0	13.6	19.8	24.8	29.9	22.6	1.8	9.0	8.5	2.9	13.8	4.86	1.48	46.0
Feb	56.6	55.3	94.6	27.5	125	22.6	6.7	11.7	11.2	5.1	23.2	4.64	4.30	74.9
Mar	73.0	71.8	121	38.1	169	20.0	9.2	48.7	48.2	7.8	0.7	6.18	4.56	21.1
Apr	17.8	17.4	40.7	7.8	38.3	5.8	1.7	11.0	10.9	2.0	13.4	4.87	1.72	209.9
May	20.1	19.5	27.3	13.1	39.9	9.7	3.2	11.8	11.6	2.4	1.7	5.76	1.27	214.4
June	18.3	17.2	35.3	19.6	64.6	18.1	2.0	20.0	19.6	3.5	0.4	6.35	2.02	145.3
July	12.7	12.2	13.0	9.9	34.2	7.1	1.1	11.6	11.4	1.9	2.0	5.70	1.01	176.9
Aug	23.7	21.8	33.7	31.9	53.1	31.4	2.5	50.0	49.3	6.4	7.0	5.16	2.19	87.3
Sept	14.8	14.5	24.4	6.1	64.0	4.4	1.3	15.2	15.2	1.5	0.5	6.28	1.13	357.7
Oct	11.2	10.9	23.3	3.5	41.8	5.1	1.0	10.2	10.1	1.1	6.7	5.18	1.06	390.0
Nov	17.5	16.7	44.1	12.8	103	13.1	4.0	52.5	52.2	3.0	0.2	6.61	2.47	52.3
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	18.0	17.4	31.2	11.3	53.8	9.8	2.0	16.1	15.9	2.3	5.3	5.28	1.54	1775.8
Max.	73	72	125	71.1	169	69.2	9.2	101	99	13.2	40.7	7.14	5.22	
Min.	2.8	2.7	4.4	<1.0	7.2	1.3	<1.0	0.7	0.7	0.4	<0.1	4.39	0.34	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.69	0.63	0.91	1.14	1.38	1.04	0.08	0.41	0.39	0.13	0.63
Feb	4.24	4.14	7.08	2.06	9.33	1.70	0.50	0.87	0.84	0.38	1.73
Mar	1.54	1.51	2.55	0.80	3.56	0.42	0.19	1.03	1.02	0.16	0.01
Apr	3.73	3.65	8.54	1.63	8.05	1.23	0.36	2.32	2.29	0.41	2.81
May	4.30	4.18	5.86	2.80	8.55	2.09	0.69	2.53	2.49	0.52	0.37
June	2.65	2.49	5.12	2.85	9.39	2.63	0.29	2.91	2.86	0.51	0.06
July	2.24	2.16	2.30	1.75	6.05	1.26	0.20	2.05	2.02	0.34	0.35
Aug	2.07	1.90	2.94	2.79	4.64	2.74	0.22	4.36	4.30	0.56	0.61
Sept	5.29	5.19	8.71	2.19	22.9	1.57	0.48	5.45	5.42	0.54	0.19
Oct	4.35	4.23	9.08	1.37	16.3	1.98	0.39	3.99	3.95	0.45	2.60
Nov	0.91	0.87	2.31	0.67	5.39	0.69	0.21	2.75	2.73	0.16	0.01
Dec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	32.0	31.0	55.4	20.1	95.5	17.3	3.61	28.7	28.3	4.15	9.39

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	97	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.51 Monthly results

Site: Samutprakarn

Country: Thailand

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	51.6	47.4	24.6	60.8	428	70.3	47.7	32.0	30.4	24.6	<0.1	7.25	8.59	7.8
Feb	71.2	66.1	71.1	77.0	386	84.6	46.5	55.4	53.6	27.7	<0.1	7.09	8.82	57.3
Mar	72.4	69.8	110	60.5	104	42.7	15.7	42.4	41.5	11.7	1.0	6.02	3.91	14.7
Apr	18.2	16.8	33.9	15.7	42.4	22.8	4.3	14.0	13.5	3.1	2.6	5.59	1.75	174.4
May	16.5	15.6	12.1	14.2	36.5	16.0	3.2	11.1	10.8	2.9	1.5	5.81	1.32	204.1
June	10.6	9.8	8.2	10.1	43.3	13.0	3.6	10.4	10.1	3.8	3.4	5.46	1.17	210.0
July	9.5	8.9	6.3	9.2	67.0	10.0	5.5	11.6	11.4	3.4	0.8	6.07	1.41	254.9
Aug	10.9	9.9	6.8	10.7	46.9	17.8	11.4	16.7	16.3	5.1	2.7	5.57	1.53	216.2
Sept	13.4	12.9	14.0	7.4	31.6	7.7	2.0	9.3	9.1	1.9	10.0	5.00	1.12	280.5
Oct	14.8	14.3	20.6	6.1	35.1	7.2	2.4	11.4	11.3	1.6	14.3	4.84	1.28	232.7
Nov	10.9	10.5	28.4	5.6	34.8	6.1	2.5	15.4	15.2	1.8	4.3	5.37	1.48	81.1
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	15.7	14.8	17.4	12.8	56.4	15.4	6.1	13.8	13.5	4.0	5.1	5.29	1.66	1733.7
Max.	138	130	230	131	460	121	71.3	131	128	37.8	34.7	7.70	9.23	
Min.	2.4	2.2	1.5	2.2	8.2	2.2	<1.0	2.4	2.4	0.5	<0.1	4.46	0.39	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.40	0.37	0.19	0.47	3.34	0.55	0.37	0.25	0.24	0.19	<0.01
Feb	4.08	3.79	4.07	4.41	22.1	4.85	2.67	3.17	3.07	1.59	<0.01
Mar	1.06	1.03	1.62	0.89	1.52	0.63	0.23	0.62	0.61	0.17	0.01
Apr	3.17	2.93	5.92	2.74	7.39	3.98	0.75	2.44	2.35	0.54	0.45
May	3.37	3.18	2.47	2.90	7.45	3.26	0.66	2.27	2.20	0.58	0.31
June	2.23	2.06	1.73	2.12	9.09	2.73	0.77	2.19	2.13	0.81	0.72
July	2.43	2.28	1.60	2.34	17.1	2.55	1.40	2.95	2.90	0.88	0.22
Aug	2.37	2.13	1.47	2.31	10.1	3.85	2.45	3.60	3.52	1.11	0.58
Sept	3.75	3.62	3.93	2.06	8.86	2.17	0.56	2.61	2.56	0.54	2.80
Oct	3.43	3.33	4.79	1.41	8.17	1.67	0.56	2.66	2.62	0.37	3.33
Nov	0.88	0.85	2.31	0.46	2.82	0.49	0.20	1.25	1.24	0.15	0.35
Dec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	27.2	25.6	30.2	22.1	97.8	26.8	10.6	24.0	23.4	6.91	8.81

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Mar	91	91	91	91	91	91	91	91	91	91	91	91	91	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	99	99	99	99	99	99	99	99	99	99	99	99	99	100
July	95	95	95	95	95	95	95	95	95	95	95	95	95	100
Aug	98	98	98	98	98	98	98	98	98	98	98	98	98	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Annual	99	99	99	99	99	99	99	99	99	99	99	99	99	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.52 Monthly results

Site: Patumthani

Country: Thailand

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	24.4	22.4	57.5	39.0	68.8	32.8	6.4	13.1	12.4	5.5	51.3	4.29	4.06	2.0
Feb	9.8	9.3	15.2	8.3	30.9	8.9	1.2	5.9	5.7	1.7	7.6	5.12	1.02	72.5
Mar	37.1	35.9	95.3	38.0	152	20.4	14.2	42.5	42.1	7.3	15.5	4.81	5.05	0.5
Apr	16.8	16.2	54.4	7.9	40.8	9.6	5.9	17.3	17.1	5.6	31.0	4.51	2.53	92.4
May	10.6	10.3	22.3	5.2	29.0	5.2	1.1	10.5	10.4	1.5	10.2	4.99	1.20	394.3
June	11.0	10.5	16.7	11.0	32.6	9.3	1.3	22.1	21.9	2.9	2.2	5.66	1.02	238.2
July	10.6	10.3	17.0	8.0	29.4	5.7	1.4	10.9	10.8	1.5	4.4	5.36	1.00	197.9
Aug	12.3	11.7	29.0	11.3	36.6	8.8	1.7	15.9	15.7	1.9	9.6	5.02	1.45	127.1
Sept	8.0	7.8	12.8	5.2	24.5	3.7	1.1	5.5	5.4	0.8	4.4	5.35	0.79	170.1
Oct	10.7	10.5	21.6	2.8	26.6	3.4	1.2	8.1	8.0	0.7	14.1	4.85	1.27	270.8
Nov	7.2	7.0	16.7	2.5	22.7	2.5	<1.0	5.6	5.5	0.6	6.7	5.17	0.86	104.5
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	10.6	10.3	21.5	6.6	29.7	6.0	1.5	11.6	11.5	1.7	9.2	5.03	1.19	1670.3
Max.	87	85	215	99.1	207	62.1	45.2	167	166	43.7	74.1	6.67	6.03	
Min.	1.2	1.2	2.5	<1.0	6.1	<1.0	<1.0	0.3	0.3	<0.4	0.2	4.13	0.28	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.05	0.04	0.11	0.08	0.14	0.07	0.01	0.03	0.02	0.01	0.10
Feb	0.71	0.67	1.10	0.60	2.24	0.65	0.09	0.43	0.42	0.12	0.55
Mar	0.02	0.02	0.05	0.02	0.08	0.01	<0.01	0.02	0.02	<0.01	<0.01
Apr	1.55	1.50	5.02	0.73	3.77	0.89	0.55	1.60	1.58	0.52	2.87
May	4.18	4.05	8.78	2.07	11.4	2.06	0.43	4.16	4.11	0.57	4.02
June	2.63	2.49	3.97	2.61	7.76	2.22	0.31	5.26	5.21	0.69	0.52
July	2.10	2.03	3.36	1.58	5.83	1.13	0.28	2.16	2.13	0.29	0.87
Aug	1.56	1.49	3.68	1.44	4.66	1.12	0.22	2.02	2.00	0.24	1.23
Sept	1.36	1.32	2.18	0.88	4.16	0.62	0.18	0.93	0.92	0.13	0.75
Oct	2.89	2.83	5.86	0.77	7.20	0.92	0.33	2.19	2.17	0.20	3.83
Nov	0.75	0.73	1.74	0.26	2.37	0.27	0.10	0.58	0.58	0.06	0.70
Dec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	17.8	17.2	35.9	11.0	49.6	9.95	2.51	19.4	19.2	2.84	15.4

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Sept	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.53 Monthly results

Site: Khanchanaburi

Country: Thailand

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Feb	*	*	*	*	*	*	*	*	*	*	*	*	*	8.0
Mar	7.2	6.8	29.7	11.4	67.7	6.4	5.1	20.4	20.2	7.5	7.5	5.13	1.75	74.1
Apr	7.8	7.6	21.7	6.7	23.6	3.3	1.4	4.9	4.8	1.5	2.7	5.57	0.77	133.6
May	3.4	3.0	4.3	11.6	9.8	7.0	1.1	2.4	2.2	1.1	2.8	5.56	0.42	340.5
June	2.7	1.9	2.5	13.4	5.1	12.3	<1.0	6.6	6.4	2.0	0.5	6.34	0.46	212.4
July	3.0	2.5	2.3	13.1	3.0	8.1	<1.0	5.0	4.9	0.8	1.0	5.99	0.56	218.6
Aug	3.7	2.8	2.5	12.6	4.7	14.0	<1.0	4.5	4.2	1.9	1.2	5.93	0.40	456.7
Sept	2.1	1.7	2.8	4.6	5.0	6.0	<1.0	1.2	1.1	0.7	2.6	5.58	0.24	253.3
Oct	6.1	5.8	4.9	2.9	14.1	5.1	<1.0	2.3	2.1	0.7	4.3	5.37	0.45	234.6
Nov	3.3	2.9	4.4	4.1	10.0	7.2	1.7	1.6	1.5	0.6	2.5	5.60	0.34	30.1
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	3.8	3.2	5.0	10.3	10.1	9.2	1.2	4.6	4.4	1.6	2.2	5.66	0.50	1961.9
Max.	18	17	50.3	83.8	104	60.9	8.2	42	41	16.0	13.8	6.80	2.64	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.2	4.86	0.05	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	*	*	*	*	*	*	*	*	*	*	*
Mar	0.53	0.51	2.20	0.84	5.02	0.48	0.38	1.51	1.50	0.56	0.55
Apr	1.04	1.01	2.90	0.90	3.16	0.44	0.19	0.65	0.64	0.20	0.36
May	1.16	1.02	1.46	3.93	3.33	2.39	0.37	0.80	0.75	0.38	0.95
June	0.57	0.41	0.53	2.84	1.08	2.62	0.20	1.41	1.35	0.42	0.10
July	0.65	0.55	0.50	2.87	0.65	1.78	0.21	1.10	1.07	0.18	0.23
Aug	1.67	1.28	1.16	5.77	2.17	6.38	0.41	2.04	1.90	0.85	0.53
Sept	0.53	0.44	0.71	1.18	1.27	1.52	0.17	0.30	0.27	0.18	0.66
Oct	1.42	1.35	1.15	0.68	3.31	1.19	0.22	0.53	0.50	0.17	1.01
Nov	0.10	0.09	0.13	0.12	0.30	0.22	0.05	0.05	0.04	0.02	0.08
Dec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	7.41	6.33	9.85	20.1	19.8	18.1	2.26	9.00	8.61	3.16	4.30

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	37	37	37	37	37	37	37	37	37	37	37	37	37	100
May	69	69	69	69	69	69	69	69	69	69	69	69	69	100
June	83	83	83	83	83	83	83	83	83	83	83	83	83	100
July	92	92	92	92	92	92	92	92	92	92	92	92	92	100
Aug	92	92	92	92	92	92	92	92	92	92	92	92	92	100
Sept	71	71	71	71	71	71	71	71	71	71	71	71	71	100
Oct	67	67	67	67	67	67	67	67	67	67	67	67	67	100
Nov	90	90	90	90	90	90	90	90	90	90	90	90	90	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Annual	77	77	77	77	77	77	77	77	77	77	77	77	77	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.54 Monthly results

Site: Chiang Mai (Mae Hia)

Country: Thailand

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	4.6	4.2	12.1	9.5	24.1	6.0	2.9	4.9	4.8	3.5	0.5	6.31	0.69	19.9
Feb	11.3	11.1	23.9	10.8	58.1	2.9	6.3	15.5	15.5	4.3	1.2	5.92	1.20	6.6
Mar	50.2	49.2	121	36.9	187	17.5	25.9	62.7	62.4	16.9	18.8	4.72	6.32	3.4
Apr	8.5	8.4	20.7	4.5	38.2	2.5	3.8	7.6	7.5	1.2	4.3	5.37	1.32	90.9
May	12.7	12.4	18.2	11.4	33.6	4.5	1.9	10.8	10.7	1.7	2.6	5.58	1.18	201.0
June	3.5	3.3	7.3	4.0	19.1	2.9	2.2	7.0	7.0	1.1	0.4	6.43	0.51	108.6
July	2.1	1.8	4.6	5.9	7.2	4.6	4.2	8.5	8.4	3.3	0.3	6.52	0.41	110.5
Aug	1.5	1.4	5.0	2.7	14.7	2.6	2.2	5.5	5.4	1.6	0.3	6.51	0.36	220.6
Sept	2.3	2.2	7.1	2.1	18.2	1.2	1.4	3.7	3.7	1.0	0.3	6.50	0.38	200.9
Oct	4.9	4.8	5.4	2.1	11.4	1.4	2.0	4.6	4.6	1.6	0.5	6.34	0.44	240.2
Nov	1.0	1.0	2.2	1.5	8.8	<1.0	2.6	4.8	4.8	1.5	0.3	6.51	0.31	78.8
Dec	9.6	9.0	10.3	15.6	130	9.9	61.4	33.9	33.6	27.0	0.9	6.05	2.90	5.0
Annual	5.0	4.8	9.1	4.6	19.9	2.6	2.6	6.7	6.6	1.8	1.0	5.98	0.62	1286.4
Max.	63	62	189	92.9	214	354	122	89	89	33.6	38.9	6.81	6.82	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.2	4.41	0.18	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.09	0.08	0.24	0.19	0.48	0.12	0.06	0.10	0.10	0.07	<0.01
Feb	0.07	0.07	0.16	0.07	0.38	0.02	0.04	0.10	0.10	0.03	<0.01
Mar	0.17	0.17	0.41	0.13	0.63	0.06	0.09	0.21	0.21	0.06	0.06
Apr	0.78	0.76	1.88	0.41	3.48	0.23	0.34	0.69	0.68	0.10	0.39
May	2.55	2.50	3.66	2.30	6.75	0.90	0.38	2.17	2.15	0.35	0.53
June	0.38	0.36	0.79	0.43	2.08	0.31	0.24	0.76	0.76	0.12	0.04
July	0.23	0.20	0.50	0.65	0.79	0.51	0.47	0.94	0.93	0.36	0.03
Aug	0.34	0.30	1.11	0.59	3.25	0.58	0.49	1.21	1.19	0.34	0.07
Sept	0.46	0.44	1.43	0.42	3.66	0.23	0.28	0.75	0.75	0.21	0.06
Oct	1.19	1.16	1.30	0.51	2.74	0.35	0.48	1.11	1.10	0.39	0.11
Nov	0.08	0.08	0.17	0.12	0.70	0.00	0.20	0.38	0.38	0.12	0.02
Dec	0.05	0.04	0.05	0.08	0.65	0.05	0.31	0.17	0.17	0.14	<0.01
Annual	6.38	6.18	11.7	5.90	25.6	3.35	3.38	8.60	8.52	2.29	1.34

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Feb	100	100	100	100	100	100	100	100	100	100	94	94	94	100
Mar	100	100	100	100	100	100	100	100	100	100	88	88	88	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.55 Monthly results

Site: Nakhon Ratchasima

Country: Thailand

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	43.3	40.9	157	70.5	137	39.6	14.1	30.2	29.3	9.0	26.9	4.57	5.52	4.2
Feb	13.3	12.8	31.1	13.2	55.2	7.6	3.6	7.9	7.8	2.8	15.9	4.80	1.58	26.2
Mar	16.0	15.6	24.6	6.8	47.4	7.0	3.7	4.7	4.5	2.5	16.1	4.79	1.71	139.6
Apr	8.4	8.1	23.0	5.3	39.6	4.3	2.4	4.0	3.9	2.7	12.6	4.90	1.17	115.9
May	7.8	7.4	11.7	6.6	19.3	5.9	<1.0	5.0	4.9	1.7	13.3	4.88	0.93	269.8
June	7.3	6.9	13.0	7.2	20.8	6.3	<1.0	5.4	5.2	1.4	10.5	4.98	0.97	148.1
July	5.3	5.0	12.1	4.5	15.3	4.9	<1.0	9.0	8.9	2.0	1.2	5.91	0.58	55.6
Aug	6.2	5.6	8.2	12.1	15.6	9.9	2.4	8.2	8.0	3.0	3.5	5.46	0.76	107.4
Sept	3.8	3.7	6.2	4.4	11.1	1.4	<1.0	0.8	0.8	<0.4	4.4	5.35	0.41	467.4
Oct	8.3	8.2	7.2	3.9	18.8	2.0	<1.0	1.0	1.0	<0.4	11.6	4.93	0.82	343.8
Nov	3.4	3.1	5.1	5.5	12.1	4.9	1.1	1.2	1.1	0.6	2.3	5.63	0.29	39.6
Dec	31.4	30.3	46.4	22.0	161	19.1	9.5	9.2	8.8	3.3	*	*	*	4.6
Annual	7.4	7.1	11.5	5.9	21.1	4.2	1.2	3.4	3.3	1.2	9.3	5.03	0.83	1722.2
Max.	63	62	157	74.5	161	78.7	23.3	41	40	13.6	74.1	6.72	5.52	
Min.	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.2	4.13	0.14	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.18	0.17	0.66	0.30	0.58	0.17	0.06	0.13	0.12	0.04	0.11
Feb	0.35	0.34	0.81	0.34	1.45	0.20	0.09	0.21	0.20	0.07	0.42
Mar	2.24	2.18	3.43	0.95	6.62	0.97	0.52	0.65	0.63	0.35	2.25
Apr	0.97	0.94	2.66	0.61	4.59	0.49	0.27	0.47	0.46	0.32	1.46
May	2.10	2.01	3.16	1.77	5.21	1.59	0.25	1.35	1.31	0.46	3.58
June	1.08	1.03	1.92	1.07	3.09	0.93	0.13	0.79	0.77	0.21	1.56
July	0.30	0.28	0.67	0.25	0.85	0.27	0.04	0.50	0.50	0.11	0.07
Aug	0.67	0.60	0.88	1.30	1.67	1.06	0.26	0.88	0.85	0.32	0.38
Sept	1.76	1.72	2.91	2.05	5.20	0.67	0.14	0.39	0.38	0.10	2.08
Oct	2.85	2.81	2.48	1.33	6.45	0.68	0.32	0.36	0.34	0.11	4.00
Nov	0.13	0.12	0.20	0.22	0.48	0.19	0.04	0.05	0.04	0.02	0.09
Dec	0.14	0.14	0.21	0.10	0.74	0.09	0.04	0.04	0.04	0.02	*
Annual	12.7	12.2	19.8	10.2	36.4	7.24	2.13	5.78	5.62	2.11	16.0

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	99	99	99	99	99	99	99	99	99	99	99	99	99	100
May	98	98	98	98	98	98	98	98	98	98	98	98	98	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	97	97	97	100
Aug	98	98	98	98	98	98	98	98	98	98	98	98	98	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	97	97	97	100
Dec	13	13	13	13	13	13	13	13	13	13	0	0	0	100
Annual	99	99	99	99	99	99	99	99	99	99	99	99	99	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.56 Monthly results

Site: Hanoi

Country: Viet Nam

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	70.1	68.8	33.7	19.5	100.0	22.8	4.9	36.4	35.9	8.9	8.6	5.06	3.45	31.8
Feb	128	127	56.8	16.5	157	13.9	8.6	67.4	67.1	8.3	33.1	4.48	6.15	9.0
Mar	62.8	61.9	35.1	13.8	117	14.3	4.9	41.0	40.7	4.7	0.3	6.58	3.12	19.9
Apr	32.4	31.9	16.2	9.5	55.2	9.1	3.1	18.4	18.2	3.0	0.9	6.04	1.62	121.6
May	16.8	16.2	8.5	7.1	31.2	9.7	1.9	10.3	10.1	3.3	0.7	6.18	1.01	184.2
June	16.4	15.9	7.3	6.9	27.3	7.5	2.6	12.3	12.1	4.8	0.8	6.12	1.00	234.1
July	22.6	22.1	9.4	8.7	46.9	8.9	3.9	7.4	7.2	2.4	0.8	6.11	1.21	482.8
Aug	25.8	25.2	12.2	7.0	45.8	9.8	2.9	16.6	16.4	4.6	0.3	6.46	1.41	245.2
Sept	14.3	14.0	8.1	5.1	9.7	4.8	2.0	11.7	11.6	2.9	1.8	5.76	0.77	195.0
Oct	13.1	12.5	6.7	10.1	9.8	10.7	2.1	9.0	8.8	3.5	2.0	5.70	0.75	711.5
Nov	11.6	10.5	7.1	10.6	3.0	17.9	2.7	13.4	13.0	7.6	0.4	6.42	0.86	20.6
Dec	76.7	75.0	60.4	35.0	96.9	28.5	8.1	48.2	47.6	18.9	4.7	5.33	4.06	11.4
Annual	20.2	19.6	9.8	8.7	30.6	9.6	2.8	11.8	11.6	3.6	1.4	5.84	1.11	2267.1
Max.	152	151	75.2	35.0	165	41.1	11.6	80	79	18.9	63.1	6.78	7.82	
Min.	8.4	7.8	2.0	3.0	3.0	<1.0	<1.0	2.5	2.5	1.1	0.2	4.20	0.52	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	2.23	2.19	1.07	0.62	3.18	0.73	0.16	1.16	1.14	0.28	0.27
Feb	1.15	1.14	0.51	0.15	1.41	0.13	0.08	0.61	0.60	0.07	0.30
Mar	1.25	1.23	0.70	0.28	2.33	0.28	0.10	0.82	0.81	0.09	<0.01
Apr	3.94	3.88	1.97	1.15	6.71	1.11	0.37	2.24	2.21	0.36	0.11
May	3.09	2.98	1.56	1.30	5.75	1.79	0.35	1.90	1.86	0.61	0.12
June	3.83	3.72	1.70	1.61	6.40	1.76	0.61	2.87	2.83	1.13	0.18
July	10.9	10.7	4.53	4.20	22.7	4.29	1.91	3.59	3.50	1.14	0.37
Aug	6.33	6.18	3.00	1.71	11.2	2.41	0.72	4.07	4.02	1.13	0.09
Sept	2.78	2.73	1.59	0.99	1.90	0.94	0.38	2.28	2.26	0.57	0.34
Oct	9.32	8.86	4.75	7.21	6.96	7.64	1.48	6.40	6.24	2.51	1.42
Nov	0.24	0.22	0.15	0.22	0.06	0.37	0.06	0.28	0.27	0.16	<0.01
Dec	0.87	0.85	0.69	0.40	1.11	0.32	0.09	0.55	0.54	0.22	0.05
Annual	45.8	44.5	22.1	19.8	69.4	21.7	6.28	26.7	26.2	8.27	3.24

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	89	89	89	89	89	89	89	89	89	89	89	89	89	100
Mar	92	92	92	92	92	92	92	92	92	92	92	92	92	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	99	99	99	99	99	99	99	99	99	99	99	99	99	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.57 Monthly results

Site: Hoa Binh

Country: Viet Nam

Volume-weighted mean concentrations/ Precipitation (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	56.4	56.1	31.4	10.1	72.0	4.8	8.7	45.2	45.1	3.4	3.9	5.41	2.54	33.4
Feb	76.0	75.5	38.9	9.5	55.0	8.7	18.9	119	119	9.9	<0.1	7.27	4.25	2.8
Mar	128	127	93.9	19.7	144	17.6	29.6	128	128	12.7	0.3	6.49	6.63	18.4
Apr	74.6	73.9	61.1	15.9	56.8	12.6	30.1	84.8	84.5	13.3	0.7	6.18	3.99	41.8
May	10.3	10.2	11.1	2.5	21.4	1.5	2.1	6.7	6.7	1.4	2.5	5.61	0.72	254.0
June	5.1	5.0	6.5	2.3	10.1	1.5	2.0	9.1	9.0	1.3	0.9	6.05	0.53	273.3
July	8.6	8.6	7.4	1.9	21.9	<1.0	2.7	3.5	3.5	0.7	1.8	5.75	0.59	338.8
Aug	7.4	7.3	5.5	1.7	12.4	1.4	1.6	17.7	17.7	1.0	0.4	6.36	0.70	180.8
Sept	11.1	10.9	8.5	3.9	6.9	2.3	2.1	4.6	4.6	0.7	13.0	4.88	0.87	282.2
Oct	12.5	12.3	5.9	4.9	10.7	3.8	2.1	15.8	15.7	1.2	2.0	5.70	0.79	505.7
Nov	8.9	8.7	6.5	4.1	7.3	3.3	3.8	56.6	56.5	2.0	<0.1	7.25	1.77	27.0
Dec	75.4	71.9	58.6	56.1	42.0	58.4	12.4	87.7	86.5	13.3	0.6	6.22	4.65	19.4
Annual	13.6	13.4	10.2	4.2	17.1	3.1	3.2	14.5	14.4	1.6	3.2	5.49	0.92	1977.6
Max.	340	337	195	69.2	166	70.7	53.6	366	365	35.6	58.9	7.30	13.7	
Min.	4.6	4.5	2.6	<1.0	2.1	<1.0	1.1	1.3	1.3	0.5	<0.1	4.23	0.42	

Wet deposition (Monthly)

unit: mmol m⁻²month⁻¹ or mmol m⁻²year⁻¹

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	1.88	1.87	1.05	0.34	2.40	0.16	0.29	1.51	1.51	0.11	0.13
Feb	0.21	0.21	0.11	0.03	0.15	0.02	0.05	0.33	0.33	0.03	<0.01
Mar	2.36	2.34	1.73	0.36	2.65	0.32	0.54	2.36	2.35	0.23	<0.01
Apr	3.12	3.09	2.56	0.66	2.37	0.53	1.26	3.54	3.53	0.56	0.03
May	2.61	2.58	2.82	0.64	5.43	0.38	0.54	1.70	1.69	0.36	0.63
June	1.40	1.38	1.76	0.62	2.76	0.40	0.55	2.47	2.47	0.36	0.24
July	2.93	2.91	2.50	0.63	7.43	0.25	0.91	1.19	1.19	0.25	0.61
Aug	1.34	1.32	1.00	0.31	2.23	0.25	0.30	3.20	3.20	0.18	0.08
Sept	3.12	3.08	2.39	1.09	1.96	0.64	0.58	1.31	1.29	0.20	3.68
Oct	6.32	6.20	2.99	2.48	5.42	1.90	1.06	7.99	7.95	0.58	1.00
Nov	0.24	0.23	0.18	0.11	0.20	0.09	0.10	1.53	1.53	0.05	<0.01
Dec	1.46	1.40	1.14	1.09	0.81	1.13	0.24	1.70	1.68	0.26	0.01
Annual	26.9	26.5	20.2	8.35	33.8	6.08	6.40	28.7	28.5	3.17	6.42

Data completeness (Monthly)

2008	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Feb	43	43	43	43	43	43	43	43	43	43	43	43	43	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Table 3.58 Annual precipitation and volume-weighted mean concentrations in 2008

Country	Name of sites	Code	Precip.	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC
			mm y ⁻¹	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L
Cambodia	Phnom Penh	KH 11052	1834.4	11.6	8.7	9.4	8.7	11.8	10.3	10.3	32.6	32.5	3.5	1.4	5.84	1.53
China	Haifu	CN 11058	1009.5	144	144	65.0	13.8	148	7.0	11.5	65.3	65.2	7.1	63.5	4.20	6.46
	Jinyunshan	CN 11003	1213.2	120	120	46.5	15.4	98.8	10.3	9.5	68.3	68.1	4.6	44.0	4.36	5.13
	Shizhan	CN 11004	385.1	191	190	40.2	33.6	164	24.4	13.3	150	149	45.4	0.4	6.40	7.96
	Jiwozi	CN 11007	437.8	145	140	103	33.8	31.6	81.1	29.0	266	264	77.3	0.1	6.94	8.46
	Hongwen	CN 11008	945.1	31.7	30.3	22.9	31.2	34.7	22.9	2.1	14.1	13.6	4.9	25.7	4.59	2.15
	Xiaoping	CN 11009	2000.5	29.2	27.8	24.6	18.6	33.0	22.5	10.2	15.6	15.1	3.4	27.9	4.55	2.09
	Xiang Zhou	CN 11010	2815.0	16.5	14.4	12.3	34.8	19.5	34.6	1.7	5.4	4.7	4.0	11.7	4.93	1.84
	Zhuxian Cavern	CN 11011	2311.2	21.5	19.0	14.7	45.6	18.6	40.7	4.5	13.6	12.7	5.7	13.1	4.88	1.94
Indonesia	Jakarta	ID 11012	1716.9	22.7	22.1	14.1	11.4	25.4	10.0	3.5	4.4	4.1	1.7	22.5	4.65	1.78
	Serpong	ID 11013	2369.8	27.8	27.2	30.3	17.0	47.2	10.5	2.2	8.0	7.8	4.1	23.9	4.62	2.10
	Kototabang	ID 11014	2480.5	2.9	2.6	2.8	3.9	7.5	5.3	3.4	4.9	4.8	1.0	6.0	5.22	0.56
	Bandung	ID 11015	2333.9	28.0	27.5	20.7	8.3	44.8	8.6	2.3	11.3	11.1	4.4	6.8	5.17	1.58
	Maros	ID 11059	3036.6	5.4	4.4	3.5	20.1	8.8	15.7	5.8	8.4	8.0	2.6	2.4	5.63	0.62
Japan	Rishiri	JP 11016	827.7	29.4	14.5	14.7	268	23.6	247	6.6	8.7	3.4	30.0	12.3	4.91	4.86
	Ochiishi	JP 11050	730.1	18.7	8.4	8.4	194	6.5	171	3.8	5.3	1.7	19.8	13.5	4.87	3.33
	Tappi	JP 11017	824.3	28.3	16.4	22.4	226	18.2	197	5.4	10.3	6.1	23.1	26.0	4.59	4.32
	Sado-seki	JP 11019	1021.0	31.0	18.3	23.9	236	21.7	215	7.2	10.3	5.7	23.5	27.9	4.55	4.28
	Happo	JP 11021	1644.7	10.9	10.7	11.0	5.6	10.1	4.1	<1.0	2.7	2.6	0.7	14.7	4.83	1.03
	Ijira	JP 11022	2249.9	18.2	17.3	24.1	18.9	18.0	15.4	<1.0	2.2	1.9	1.7	35.7	4.45	2.18
	Oki	JP 11023	1110.1	35.6	16.4	19.3	371	15.7	324	11.9	10.9	3.9	36.7	25.0	4.60	6.60
	Banryu	JP 11024	1268.2	25.8	21.4	24.6	82.5	19.2	72.2	2.5	7.4	5.8	8.9	29.3	4.53	3.10
	Yusuhara	JP 11025	2189.2	10.2	9.7	9.0	10.0	7.5	8.6	<1.0	1.7	1.5	1.1	21.6	4.67	1.14
	Hedo	JP 11027	1961.0	14.2	6.7	6.9	138	6.1	124	3.2	4.2	1.5	14.2	10.0	5.00	2.61
	Ogasawara	JP 11018	1673.6	9.0	3.8	3.7	98.8	3.4	86.2	2.6	2.5	0.9	10.6	10.0	5.00	1.86
	Tokyo	JP 11057	1860.1	19.6	18.4	24.4	23.7	29.9	19.5	1.1	4.1	3.7	2.8	24.8	4.60	1.96
	Lao PDR	Vientian	LA 11051	1667.8	5.1	4.9	6.0	7.4	8.4	2.9	1.7	5.8	5.7	1.3	1.0	6.01
Malaysia	Petaling Jaya	MY 11029	3746.7	17.5	17.2	36.1	7.5	20.8	4.2	1.2	3.9	3.8	0.5	37.2	4.43	1.98
	Tanah Rata	MY 11030	3924.8	3.3	3.2	4.5	1.5	3.1	1.2	<1.0	0.8	0.8	<0.4	8.0	5.10	0.47
	Danum Valley	MY 11053	2999.2	2.5	2.3	1.4	6.1	9.8	3.2	2.5	0.4	0.3	0.5	6.0	5.22	0.46
	Kuching	MY 11060	4285.7	4.1	3.8	5.0	6.4	4.6	5.4	<1.0	1.9	1.8	<0.4	5.5	5.26	0.44
Mongolia	Ulaanbaatar	MN 11031	155.0	27.9	27.3	20.1	10.1	53.3	3.6	2.8	42.9	42.9	3.7	0.5	6.28	1.92
	Terej	MN 11032	206.3	16.5	15.8	18.3	9.2	51.1	5.5	6.5	17.9	17.7	3.0	3.7	5.43	1.34
Myanmar	Yangon	MM 11056	6374.9	***	***	***	***	***	***	***	***	***	***	0.4	6.41	0.95
Philippines	Metro Manila	PH 11033	2381.4	24.9	23.4	21.1	28.7	62.2	24.6	15.6	13.7	13.2	4.6	2.8	5.55	2.88
	Los Banos	PH 11034	1893.8	18.0	16.9	8.0	18.8	19.6	19.1	2.9	3.7	3.3	4.6	11.2	4.95	1.76
	Mt. Sto. Tomas	PH 11055	5078.3	3.5	3.2	3.9	5.2	10.5	5.1	<1.0	3.1	3.0	<0.4	3.2	5.49	0.35
Republic of Korea	Kanghwa	KR 11035	1546.3	27.9	25.6	31.0	45.6	35.4	39.3	5.4	10.8	10.0	2.8	28.4	4.55	2.72
	Cheju (Kosan)	KR 11036	842.7	26.2	18.2	26.5	136	26.2	133	10.4	10.5	7.6	9.7	21.5	4.67	3.47
	Imsil	KR 11037	854.3	21.0	19.0	22.6	36.6	29.9	32.0	5.6	6.9	6.2	2.0	13.1	4.88	1.75
Russia	Mondy	RU 11038	206.0	7.1	7.0	7.5	4.2	9.9	1.8	2.0	8.0	7.9	2.0	6.7	5.17	0.73
	Listvyanka	RU 11039	390.6	21.3	21.2	15.4	5.1	18.9	2.5	3.4	8.2	8.1	1.8	23.2	4.63	1.58
	Irkutsk	RU 11040	527.4	38.5	37.9	17.1	15.9	34.4	10.0	9.0	29.5	29.2	6.4	17.1	4.77	2.48
	Primorskaya	RU 11041	552.7	40.6	39.3	33.1	25.6	50.6	22.9	9.0	19.4	18.9	6.3	16.3	4.79	2.58
Thailand	Bangkok	TH 11042	1775.8	18.0	17.4	31.2	11.3	53.8	9.8	2.0	16.1	15.9	2.3	5.3	5.28	1.54
	Samutprakarn	TH 11043	1733.7	15.7	14.8	17.4	12.8	56.4	15.4	6.1	13.8	13.5	4.0	5.1	5.29	1.66
	Patumthani	TH 11044	1670.3	10.6	10.3	21.5	6.6	29.7	6.0	1.5	11.6	11.5	1.7	9.2	5.03	1.19
	Khanchanaburi	TH 11045	1961.9	3.8	3.2	5.0	10.3	10.1	9.2	1.2	4.6	4.4	1.6	2.2	5.66	0.50
	Chiang Mai (Mae Hia)	TH 11046	1286.4	5.0	4.8	9.1	4.6	19.9	2.6	2.6	6.7	6.6	1.8	1.0	5.98	0.62
	Nakhon Ratchasima	TH 11054	1722.2	7.4	7.1	11.5	5.9	21.1	4.2	1.2	3.4	3.3	1.2	9.3	5.03	0.83
Viet Nam	Hanoi	VN 11047	2267.1	20.2	19.6	9.8	8.7	30.6	9.6	2.8	11.8	11.6	3.6	1.4	5.84	1.11
	Hoa Binh	VN 11048	1977.6	13.6	13.4	10.2	4.2	17.1	3.1	3.2	14.5	14.4	1.6	3.2	5.49	0.92

Data in hatched column: Rejected annual value by the criteria of EANET (%PCL<80% or %TP<80%)

[***] Not measured

Table 3.59 Annual deposition in 2008

Country	Name of sites	Code	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
			mmol m ⁻² y ⁻¹	mmol m ⁻² y ⁻¹	mmol m ⁻² y ⁻¹	mmol m ⁻² y ⁻¹	mmol m ⁻² y ⁻¹	mmol m ⁻² y ⁻¹	mmol m ⁻² y ⁻¹	mmol m ⁻² y ⁻¹	mmol m ⁻² y ⁻¹	mmol m ⁻² y ⁻¹	mmol m ⁻² y ⁻¹
Cambodia	Phnom Penh	KH 11052	21.3	15.9	17.2	15.9	21.6	18.8	19.0	59.9	59.5	6.33	2.65
China	Haifu	CN 11058	145	145	65.6	13.9	149	7.06	11.6	66.0	65.8	7.15	64.1
	Jinyunshan	CN 11003	146	145	56.4	18.6	120	12.5	11.6	82.9	82.6	5.62	53.3
	Shizhan	CN 11004	73.6	73.0	15.5	12.9	63.3	9.41	5.11	57.6	57.4	17.5	0.15
	Jiwozi	CN 11007	63.6	61.5	44.9	14.8	13.8	35.5	12.7	116	116	33.8	0.05
	Hongwen	CN 11008	29.9	28.6	21.6	29.5	32.8	21.7	2.00	13.3	12.8	4.65	24.3
	Xiaoping	CN 11009	58.3	55.6	49.2	37.1	65.9	44.9	20.3	31.2	30.2	6.78	55.8
	Xiang Zhou	CN 11010	46.5	40.6	34.7	98.1	55.0	97.5	4.65	15.3	13.2	11.2	33.0
Zhuxian Cavern	CN 11011	49.6	44.0	33.9	105	42.9	94.1	10.4	31.4	29.3	13.2	30.2	
Indonesia	Jakarta	ID 11012	38.9	37.9	24.1	19.6	43.6	17.1	6.03	7.48	7.11	2.87	38.6
	Serpong	ID 11013	65.9	64.5	71.8	40.3	112	24.8	5.24	18.9	18.4	9.76	56.7
	Kototabang	ID 11014	7.21	6.47	6.93	9.62	18.7	13.2	8.42	12.1	11.8	2.48	14.9
	Bandung	ID 11015	65.4	64.2	48.4	19.4	104	20.1	5.38	26.4	25.9	10.3	15.9
	Maros	ID 11059	16.3	13.5	10.7	60.9	26.9	47.5	17.5	25.5	24.4	7.77	7.15
Japan	Rishiri	JP 11016	24.3	12.0	12.1	222	19.5	204	5.44	7.22	2.81	24.8	10.2
	Ochiishi	JP 11050	13.7	6.14	6.16	142	4.7	125	2.78	3.86	1.21	14.5	9.86
	Tappi	JP 11017	23.3	13.5	18.5	186	15.0	162	4.42	8.52	5.02	19.1	21.4
	Sado-seki	JP 11019	31.6	18.7	24.4	241	22.2	219	7.31	10.5	5.79	24.0	28.5
	Happo	JP 11021	18.0	17.6	18.2	9.21	16.6	6.77	0.96	4.44	4.30	1.15	24.2
	Ijira	JP 11022	41.0	39.0	54.3	42.5	40.6	34.5	1.43	4.94	4.21	3.92	80.2
	Oki	JP 11023	39.5	18.2	21.5	412	17.4	360	13.2	12.1	4.37	40.8	27.7
	Banryu	JP 11024	32.7	27.2	31.2	105	24.3	91.6	3.22	9.40	7.42	11.3	37.2
	Yusuhara	JP 11025	22.4	21.2	19.7	22.0	16.5	18.8	0.93	3.71	3.30	2.42	47.3
	Hedo	JP 11027	27.8	13.2	13.5	270	12.0	243	6.23	8.19	2.95	27.9	19.6
	Ogasawara	JP 11018	15.0	6.38	6.27	165	5.7	144	4.36	4.27	1.44	17.7	16.8
	Tokyo	JP 11057	36.5	34.3	45.5	44.0	55.6	36.2	2.12	7.61	6.83	5.17	46.2
Lao PDR	Vientian	LA 11051	8.43	8.14	9.95	12.36	13.99	4.86	2.82	9.62	9.51	2.18	1.65
Malaysia	Petaling Jaya	MY 11029	65.6	64.6	135	28.1	77.9	15.8	4.45	14.7	14.4	1.95	140
	Tanah Rata	MY 11030	12.9	12.6	17.8	5.78	12.2	4.73	1.70	3.03	2.95	0.19	31.4
	Danum Valley	MY 11053	7.46	6.89	4.11	18.3	29.3	9.65	7.58	1.06	0.94	1.58	18.1
	Kuching	MY 11060	17.8	16.4	21.3	27.2	19.7	23.1	2.77	8.19	7.77	1.24	23.8
Mongolia	Ulaanbaatar	MN 11031	4.33	4.22	3.12	1.56	8.26	0.56	0.43	6.66	6.64	0.57	0.08
	Terej	MN 11032	3.40	3.26	3.77	1.90	10.5	1.13	1.33	3.68	3.66	0.62	0.77
Myanmar	Yangon	MM 11056	***	***	***	***	***	***	***	***	***	***	2.50
Philippines	Metro Manila	PH 11033	59.2	55.7	50.2	68.4	148	58.7	37.1	32.7	31.4	11.1	6.75
	Los Banos	PH 11034	34.2	32.0	15.1	35.5	37.1	36.2	5.51	7.10	6.32	8.80	21.2
	Mt. Sto. Tomas	PH 11055	17.6	16.1	19.9	26.6	53.3	25.9	3.57	15.7	15.1	1.76	16.3
Republic of Korea	Kanghwa	KR 11035	43.2	39.5	48.0	70.5	54.8	60.8	8.35	16.8	15.5	4.26	43.9
	Cheju (Kosan)	KR 11036	22.1	15.3	22.3	114	22.1	112	8.78	8.86	6.43	8.16	18.1
	Imsil	KR 11037	17.9	16.3	19.3	31.2	25.5	27.3	4.79	5.91	5.32	1.70	11.2
Russia	Mondy	RU 11038	1.47	1.45	1.54	0.87	2.03	0.38	0.42	1.64	1.63	0.41	1.38
	Listvyanka	RU 11039	8.33	8.27	6.02	2.00	7.40	0.97	1.32	3.19	3.17	0.69	9.06
	Irkutsk	RU 11040	20.3	20.0	9.02	8.39	18.1	5.29	4.74	15.5	15.4	3.40	9.01
	Primorskaya	RU 11041	22.5	21.7	18.3	14.2	28.0	12.7	4.97	10.7	10.4	3.46	9.02
Thailand	Bangkok	TH 11042	32.0	31.0	55.4	20.1	95.5	17.3	3.61	28.7	28.3	4.15	9.39
	Samutprakarn	TH 11043	27.2	25.6	30.2	22.1	97.8	26.8	10.6	24.0	23.4	6.91	8.81
	Patumthani	TH 11044	17.8	17.2	35.9	11.0	49.6	9.95	2.51	19.4	19.2	2.84	15.4
	Khanchanaburi	TH 11045	7.41	6.33	9.85	20.1	19.8	18.1	2.26	9.00	8.61	3.16	4.30
	Chiang Mai (Mae Hia)	TH 11046	6.38	6.18	11.7	5.90	25.6	3.35	3.38	8.60	8.52	2.29	1.34
	Nakhon Ratchasima	TH 11054	12.7	12.2	19.8	10.2	36.4	7.24	2.13	5.78	5.62	2.11	16.0
Viet Nam	Hanoi	VN 11047	45.8	44.5	22.1	19.8	69.4	21.7	6.28	26.7	26.2	8.27	3.24
	Hoa Binh	VN 11048	26.9	26.5	20.2	8.35	33.8	6.08	6.40	28.7	28.5	3.17	6.42

Data in hatched column: Rejected annual value by the criteria of EANET (%PCL<80% or %TP<80%)

[***] Not measured

Table 3.60 Data completeness for annual summaries in 2008 (%PCL, %TP)

Country	Name of sites	Code	Precip.	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC
			%	%	%	%	%	%	%	%	%	%	%	%	%	%
Cambodia	Phnom Penh	<i>KH 11052</i>	95	100	84	100	100	84	84	84	84	84	84	100	100	100
China	Haifu	<i>CN 11058</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Jinyunshan	<i>CN 11003</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Shizhan	<i>CN 11004</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Jiwozi	<i>CN 11007</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Hongwen	<i>CN 11008</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Xiaoping	<i>CN 11009</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Xiang Zhou	<i>CN 11010</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Zhuxian Cavern	<i>CN 11011</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Indonesia	Jakarta	<i>ID 11012</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Serpong	<i>ID 11013</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Kototabang	<i>ID 11014</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Bandung	<i>ID 11015</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Maros	<i>ID 11059</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Japan	Rishiri	<i>JP 11016</i>	99	94	94	94	94	94	94	94	94	94	94	94	94	94
	Ochiishi	<i>JP 11050</i>	100	100	100	100	100	100	100	100	100	100	100	98	98	98
	Tappi	<i>JP 11017</i>	100	98	98	98	98	98	98	98	98	98	98	96	96	96
	Sado-seki	<i>JP 11019</i>	100	82	82	82	82	82	82	82	82	82	82	80	80	80
	Happo	<i>JP 11021</i>	97	91	91	91	91	91	91	91	91	91	91	90	90	90
	Ijira	<i>JP 11022</i>	100	99	99	99	99	99	99	99	99	99	99	99	99	99
	Oki	<i>JP 11023</i>	100	99	99	99	99	99	99	99	99	99	99	99	99	99
	Banryu	<i>JP 11024</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Yusuhara	<i>JP 11025</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Hedo	<i>JP 11027</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Ogasawara	<i>JP 11018</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Tokyo	<i>JP 11057</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Lao PDR	Vientian	<i>LA 11051</i>	100	99	99	99	99	99	99	99	99	99	99	99	99	99
Malaysia	Petaling Jaya	<i>MY 11029</i>	100	100	100	100	100	100	100	100	100	100	100	98	98	98
	Tanah Rata	<i>MY 11030</i>	100	99	99	99	99	99	99	99	99	99	99	99	99	99
	Danum Valley	<i>MY 11053</i>	100	97	97	97	97	97	97	97	97	97	97	91	91	91
	Kuching	<i>MY 11060</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mongolia	Ulaanbaatar	<i>MN 11031</i>	100	99	97	99	99	97	97	97	97	97	97	100	100	100
	Terej	<i>MN 11032</i>	100	99	99	99	99	99	99	99	99	99	99	99	99	99
Myanmar	Yangon	<i>MM 11056</i>	98	***	***	***	***	***	***	***	***	***	***	100	100	100
Philippines	Metro Manila	<i>PH 11033</i>	99	82	82	82	82	82	82	82	82	82	82	79	79	79
	Los Banos	<i>PH 11034</i>	100	76	76	76	76	76	76	76	76	76	76	76	76	76
	Mt. Sto. Tomas	<i>PH 11055</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Republic of Korea	Kanghwa	<i>KR 11035</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Cheju (Kosan)	<i>KR 11036</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Imsil	<i>KR 11037</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Russia	Mondy	<i>RU 11038</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Listvyanka	<i>RU 11039</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Irkutsk	<i>RU 11040</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Primorskaya	<i>RU 11041</i>	100	99	99	99	99	99	99	99	99	99	99	99	100	99
Thailand	Bangkok	<i>TH 11042</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Samutprakarn	<i>TH 11043</i>	100	99	99	99	99	99	99	99	99	99	99	99	99	99
	Patumthani	<i>TH 11044</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Khanchanaburi	<i>TH 11045</i>	100	77	77	77	77	77	77	77	77	77	77	77	77	77
	Chiang Mai (Mae Hia)	<i>TH 11046</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Nakhon Ratchasima	<i>TH 11054</i>	100	99	99	99	99	99	99	99	99	99	99	99	99	99
Viet Nam	Hanoi	<i>VN 11047</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Hoa Binh	<i>VN 11048</i>	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Data in hatched column: Below the criteria of EANET (%PCL<80% or %TP<80%)

[***] Not measured

Table 3.61 Results of ion balance and conductivity agreement check in 2008

Country	Name of sites	Code	Sample (N)	R ₁ (N)	R ₁ (AA)	%	R ₂ (N)	R ₂ (AA)	%	R ₁ &R ₂ (N)	R ₁ &R ₂ (AA)	%
Cambodia	Phnom Penh	KH 11052	31	28	7	25	28	10	36	28	2	7
China	Haifu	CN 11058	119	117	110	94	117	107	91	117	102	87
	Jinyunshan	CN 11003	134	126	119	94	126	123	98	126	117	93
	Shizhan	CN 11004	35	34	20	59	34	21	62	34	12	35
	Jiwozi	CN 11007	81	80	29	36	80	65	81	80	22	28
	Hongwen	CN 11008	56	55	42	76	55	47	85	55	36	65
	Xiaoping	CN 11009	67	66	38	58	66	52	79	66	31	47
	Xiang Zhou	CN 11010	90	89	54	61	89	40	45	89	29	33
	Zhuxian Cavern	CN 11011	67	66	44	67	66	58	88	66	37	56
Indonesia	Jakarta	ID 11012	29	28	20	71	28	25	89	28	18	64
	Serpong	ID 11013	70	69	69	100	69	69	100	69	69	100
	Kototabang	ID 11014	41	40	3	8	40	31	78	40	3	8
	Bandung	ID 11015	95	94	92	98	94	94	100	94	92	98
	Maros	ID 11059	31	30	9	30	30	21	70	30	5	17
Japan	Rishiri	JP 11016	229	133	119	89	133	127	95	133	113	85
	Ochiishi	JP 11050	102	78	78	100	78	78	100	78	78	100
	Tappi	JP 11017	124	94	94	100	94	94	100	94	94	100
	Sado-seki	JP 11019	141	92	92	100	92	92	100	92	92	100
	Happo	JP 11021	159	143	140	98	143	143	100	143	140	98
	Ijira	JP 11022	51	49	49	100	49	49	100	49	49	100
	Okii	JP 11023	206	123	123	100	123	100	100	123	123	100
	Banryu	JP 11024	49	47	47	100	47	47	100	47	47	100
	Yusuhara	JP 11025	155	153	151	99	151	151	100	151	149	99
	Hedo	JP 11027	162	152	152	100	152	151	99	152	151	99
	Ogasawara	JP 11018	156	144	142	99	144	144	100	144	142	99
Tokyo	JP 11057	176	140	130	93	140	140	100	140	130	93	
Lao PDR	Vientiane	LA 11051	64	62	30	48	62	21	34	62	11	18
Malaysia	Petaling Jaya	MY 11029	52	44	42	95	44	44	100	44	42	95
	Tanah Rata	MY 11030	51	48	43	90	48	45	94	48	40	83
	Danum Valley	MY 11053	51	46	29	63	46	40	87	46	27	59
	Kuching	MY 11060	52	51	50	98	51	51	100	51	50	98
Mongolia	Ulaanbaatar	MN 11031	40	28	5	18	28	23	82	28	5	18
	Terelj	MN 11032	49	46	15	33	46	40	87	46	15	33
Myanmar	Yangon	MM 11056	-	-	-	-	-	-	-	-	-	-
Philippines	Metro Manila	PH 11033	49	37	33	89	37	27	73	37	24	65
	Los Banos	PH 11034	31	29	29	100	29	25	86	29	25	86
	Mt. Sto. Tomas	PH 11055	49	37	33	89	37	27	73	37	24	65
Republic of Korea	Kanghwa	KR 11035	39	38	27	71	38	37	97	38	26	68
	Cheju (Kosan)	KR 11036	46	45	27	60	45	45	100	45	27	60
	Imsil	KR 11037	26	25	17	68	25	23	92	25	16	64
Russia	Mondy	RU 11038	16	15	15	100	15	15	100	15	15	100
	Listvyanka	RU 11039	67	66	64	97	66	66	100	66	64	97
	Irkutsk	RU 11040	103	100	100	100	99	99	100	99	99	99
	Primorskaya	RU 11041	99	74	74	100	74	74	100	74	74	100
Thailand	Bangkok	TH 11042	63	62	19	31	61	55	90	61	15	25
	Samutprakarn	TH 11043	113	112	17	15	112	73	65	112	10	9
	Patumthani	TH 11044	109	99	21	21	99	91	92	99	20	20
	Khanchanaburi	TH 11045	84	83	52	63	83	60	72	83	38	46
	Chiang Mai (Mae Hia)	TH 11046	133	123	44	36	123	103	84	123	40	33
	Nakhon Ratchasima	TH 11054	126	117	40	34	117	110	94	117	38	32
Viet Nam	Hanoi	VN 11047	38	37	37	100	37	37	100	37	37	100
	Hoa Binh	VN 11048	42	40	40	100	40	40	100	40	40	100

Sample(N) : Number of samples

R₁(N) : Number of samples measured and calculated ion balance (R₁)

R₁(AA) : Number of samples within allowable ranges for R₁

R₂(N) : Number of samples measured and calculated conductivity agreement (R₂)

R₂(AA) : Number of samples within allowable ranges for R₂

R₁&R₂(N) : Number of samples measured and calculated both R₁ and R₂

R₁&R₂(AA) : Number of samples within allowable ranges for both R₁ and R₂

Haifu, Jinyunshan, Hongwen, Xiaoping, Metro Manila, Los Banos, Mt. Sto. Tomas, Mondy, Listvyanka, Irkutsk, Primorskaya, Hanoi and Hoa Binh

: R₁ and R₂, calculated including concentrations of additional measured constituents

Table 3.62 Annual precipitation

unit: mm y ⁻¹											
Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	<i>KH 11052</i>					418.9	1307.8	948.5	1373.9	1834.4
China	Guanyinqiao	<i>CN 11001</i>	1081.1	751.6	1445.3	986.7	1386.7	1077.2	841.9	1298.6	
	Nanshan	<i>CN 11002</i>	1259.4								
	Haifu	<i>CN 11058</i>									1009.5
	Jinyunshan	<i>CN 11003</i>		710.1	1606.6	1232.5	1517.7	1461.4	1196.0	1644.7	1213.2
	Shizhan	<i>CN 11004</i>	559.1	363.9	349.0	1273.2	600.9	508.8	482.6	527.3	385.1
	Weishuiyuan	<i>CN 11005</i>	447.4	69.3	232.0	1302.1	465.6	438.9	315.6		
	Jiwozi	<i>CN 11007</i>	829.3	208.8	141.7	610.8	1019.6	361.6	234.4	100.0	437.8
	Hongwen	<i>CN 11008</i>	1517.2	295.5	1567.5	1301.3	1064.9	1701.6	2133.8	1346.8	945.1
	Xiaoping	<i>CN 11009</i>	1566.4	2681.5	2170.7	1767.8	1958.4	2921.3	2351.8	1044.0	2000.5
	Xiang Zhou	<i>CN 11010</i>	2030.5	1989.5	1731.4	1726.0	1339.8	1179.1	1529.0	1441.5	2815.0
	Zhuxian Cavern	<i>CN 11011</i>	1778.8	2570.8	1581.0	1754.9	1276.8	1062.0	887.0	***	2311.2
Indonesia	Jakarta	<i>ID 11012</i>	1577.4	1236.7	1572.3	1617.3	1468.7	2125.3	1480.8	2171.0	1716.9
	Serpong	<i>ID 11014</i>	***	1606.7	2505.2	2142.8	1462.4	824.2	1602.6	2014.7	2369.8
	Kototabang	<i>ID 11013</i>	2339.8	1208.7	1797.6	3126.7	2110.9	2193.9	1247.6	2772.4	2480.5
	Bandung	<i>ID 11015</i>	893.3	2604.7	2540.7	1606.1	894.5	1749.3	1311.4	1968.8	2333.9
	Maros	<i>ID 11059</i>									3036.6
Japan	Rishiri	<i>JP 11016</i>	769.9	614.9	957.0	708.6	945.4	961.0	1293.8	882.9	827.7
	Ochiishi	<i>JP 11050</i>				781.8	648.0	822.2	996.9	866.1	730.1
	Tappi	<i>JP 11017</i>	1048.8	1081.6	1329.4	1149.6	1473.0	1240.2	963.7	1055.3	824.3
	Sado-seki	<i>JP 11019</i>	1067.7	970.5	1432.9	1126.3	1539.2	1143.0	1263.6	1162.8	1021.0
	Happo	<i>JP 11021</i>	2187.9	2345.1	2607.3	2461.4	3088.1	2996.6	2755.2	2328.9	1644.7
	Ijira	<i>JP 11022</i>	2685.2	2236.5	2648.3	2967.0	3424.4	2569.4	2828.6	2263.5	2249.9
	Oki	<i>JP 11023</i>	1209.1	1245.8	1570.8	1596.9	1408.6	1313.3	1396.3	1159.8	1110.1
	Banryu	<i>JP 11024</i>	1565.2	1788.0	1303.0	1752.1	1737.6	1290.3	1959.7	1273.1	1268.2
	Yusuhara	<i>JP 11025</i>	2800.7	2080.1	2345.9	2839.3	3970.3	2321.4	3160.4	2372.5	2189.2
	Hedo	<i>JP 11027</i>	2906.8	2125.6	2032.4	1392.6	1778.2	1779.9	1863.3	2701.5	1961.0
	Ogasawara	<i>JP 11018</i>	1984.9	1805.7	1330.5	1398.4	1170.5	2050.3	1584.9	1566.9	1673.6
	Tokyo	<i>JP 11057</i>								1079.6	1860.1
	Lao PDR	Vientian	<i>LA 11051</i>				88.6	441.8	665.5	708.9	1399.0
Malaysia	Petaling Jaya	<i>MY 11029</i>	3417.4	3085.3	2660.4	3040.5	2996.0	2847.5	4009.2	3020.7	3746.7
	Tanah Rata	<i>MY 11030</i>	3127.4	2626.3	2782.6	3009.5	2415.4	2886.1	2784.9	2968.1	3924.8
	Danum Valley	<i>MY 11053</i>						1256.3	3005.3	2988.4	2999.2
	Kuching	<i>MY 11060</i>									4285.7
Mongolia	Ulaanbaatar	<i>MN 11031</i>	196.5	165.8	178.5	297.2	83.4	150.3	187.9	125.8	155.0
	Terej	<i>MN 11032</i>	207.6	88.6	246.0	311.7	207.1	245.8	214.6	185.2	206.3
Myanmar	Yangon	<i>MM 11056</i>								3981.2	6374.9
Philippines	Metro Manila	<i>PH 11033</i>	4035.6	2291.2	2974.6	2204.8	2163.6	2376.7	2695.6	3504.7	2381.4
	Los Banos	<i>PH 11034</i>	2635.2	1816.5	1701.6	1608.2	1743.3	1643.1	2222.4	3096.7	1893.8
	Mt. Sto. Tomas	<i>PH 11055</i>							430.5	3378.8	5078.3
Republic of Korea	Kanghwa	<i>KR 11035</i>	1117.6	1139.4	824.1	1573.3	877.6	811.3	1091.6	882.9	1546.3
	Cheju (Kosan)	<i>KR 11036</i>	1058.4	1113.7	1016.8	1291.3	1123.9	699.1	1127.2	1244.4	842.7
	Imsil	<i>KR 11037</i>		1299.1	992.6	1875.5	1207.3	1248.1	708.5	1344.0	854.3
Russia	Mondy	<i>RU 11038</i>	304.7	319.3	203.7	408.5	359.8	286.1	410.3	350.6	206.0
	Listvyanka	<i>RU 11039</i>	441.6	493.6	360.3	540.1	551.1	451.8	310.8	408.0	390.6
	Irkutsk	<i>RU 11040</i>	534.4	468.4	302.5	456.7	553.2	441.7	357.3	477.9	527.4
	Primorskaya	<i>RU 11041</i>			834.7	322.7	691.5	737.1	622.9	988.8	552.7
Thailand	Bangkok	<i>TH 11042</i>	1147.9	1173.9	1300.3	1384.7	1211.4	2006.4	1588.6	1578.8	1775.8
	Samutprakarn	<i>TH 11043</i>	977.7				1260.4	1625.1	1420.0	1870.9	1733.7
	Patumthani	<i>TH 11044</i>	955.6	1348.5	948.0	1658.0	976.2	1268.2	1607.7	1380.7	1670.3
	Khanchanaburi	<i>TH 11045</i>	881.3	1516.0	2199.7	1626.9	1391.6	2043.3	2518.1	1704.2	1961.9
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		1083.9	1472.6	808.0	1151.5	1429.8	1419.8	937.5	1286.4
	Nakhon Ratchasima	<i>TH 11054</i>							1189.7	1386.3	1722.2
Viet Nam	Hanoi	<i>VN 11047</i>	1256.3	2254.7	1416.1	1585.6	1574.9	1761.0	1230.6	1659.3	2267.1
	Hoa Binh	<i>VN 11048</i>	1893.6	2223.2	1625.9	1691.3	1830.8	2279.0	1545.9	1948.6	1977.6

[***]: No data or not measured

Data in hatched column: Rejected annual value by the criteria of EANET (%PCL<80% or %TP<80%)

Black column: Monitoring was not carried out

Table 3.63 Volume-weighted annual mean concentrations of SO₄²⁻

unit: µmol/L											
Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	<i>KH 11052</i>					***	5.7	5.3	22.5	11.6
China	Guanyinqiao	<i>CN 11001</i>	152	205	114	110	165	186	177	130	
	Nanshan	<i>CN 11002</i>	130								
	Haifu	<i>CN 11058</i>									144
	Jinyunshan	<i>CN 11003</i>		124	78	83.2	109	102	141	90.4	120
	Shizhan	<i>CN 11004</i>	356	470	850	203	173	126	274	183	191
	Weishuiyuan	<i>CN 11005</i>	538	1510	1010	143	202	107	330		
	Jiwozi	<i>CN 11007</i>	141	326	305	90.6	55.2	118	128	182	145
	Hongwen	<i>CN 11008</i>	20.2	56.5	42.8	36.9	69.1	47.2	28.6	75.5	31.7
	Xiaoping	<i>CN 11009</i>	14.6	18.3	16.7	23.6	27.2	20.2	16.9	28.0	29.2
	Xiang Zhou	<i>CN 11010</i>	22.4	15.7	27.9	20.5	18.7	23.8	29.2	21.7	16.5
	Zhuxian Cavern	<i>CN 11011</i>	48.0	19.3	32.0	18.5	26.9	29.5	19.3	***	21.5
Indonesia	Jakarta	<i>ID 11012</i>	58.7	62.7	38.5	66.7	48.6	40.3	26.2	27.9	22.7
	Serpong	<i>ID 11014</i>	***	38.2	25.7	23.1	28.1	33.3	28.2	30.5	27.8
	Kototabang	<i>ID 11013</i>	3.7	4.7	7.5	9.2	5.2	5.5	7.7	7.0	2.9
	Bandung	<i>ID 11015</i>	67.4	33.7	27.7	20.4	27.7	35.3	26.8	26.4	28.0
	Maros	<i>ID 11059</i>									5.4
Japan	Rishiri	<i>JP 11016</i>	39.0	31.0	27.3	23.5	28.6	27.9	22.9	28.3	29.4
	Ochiishi	<i>JP 11050</i>				19.1	34.5	22.6	27.7	21.3	18.7
	Tappi	<i>JP 11017</i>	21.9	22.9	22.7	21.8	26.2	29.6	35.8	29.6	28.3
	Sado-seki	<i>JP 11019</i>	34.4	41.0	28.2	16.5	17.7	34.2	28.3	34.9	31.0
	Happo	<i>JP 11021</i>	13.3	11.7	7.6	7.5	9.1	12.0	10.3	12.2	10.9
	Ijira	<i>JP 11022</i>	19.9	22.0	19.7	19.1	14.0	18.9	20.6	19.0	18.2
	Okii	<i>JP 11023</i>	40.5	33.8	35.3	21.5	29.3	55.7	29.5	36.3	35.6
	Banryu	<i>JP 11024</i>	15.6	19.0	19.0	17.4	19.8	26.9	22.0	27.9	25.8
	Yusuhara	<i>JP 11025</i>	11.1	9.2	11.2	9.3	6.7	12.1	10.1	9.5	10.2
	Hedo	<i>JP 11027</i>	32.2	15.9	36.9	35.2	77.0	36.0	19.2	14.4	14.2
	Ogasawara	<i>JP 11018</i>	11.4	11.4	18.1	18.0	10.7	13.1	10.2	12.7	9.0
	Tokyo	<i>JP 11057</i>								17.1	19.6
	Lao PDR	Vientian	<i>LA 11051</i>				***	***	***	3.5	4.7
Malaysia	Petaling Jaya	<i>MY 11029</i>	23.5	22.2	23.7	21.0	18.2	23.3	20.6	13.8	17.5
	Tanah Rata	<i>MY 11030</i>	4.1	3.7	4.6	3.8	4.0	5.6	4.4	3.5	3.3
	Danum Valley	<i>MY 11053</i>						4.4	3.4	2.3	2.5
	Kuching	<i>MY 11060</i>									4.1
Mongolia	Ulaanbaatar	<i>MN 11031</i>	24.3	25.2	24.7	19.5	22.1	26.7	25.4	37.1	27.9
	Terelj	<i>MN 11032</i>	16.4	9.7	15.1	8.3	13.3	17.5	23.8	25.0	16.5
Myanmar	Yangon	<i>MM 11056</i>								***	***
Philippines	Metro Manila	<i>PH 11033</i>	23.4	37.3	26.3	17.1	20.4	24.0	17.6	22.3	24.9
	Los Banos	<i>PH 11034</i>	10.5	15.6	16.1	7.1	8.4	9.9	10.8	8.4	18.0
	Mt. Sto. Tomas	<i>PH 11055</i>							1.4	5.7	3.5
Republic of Korea	Kanghwa	<i>KR 11035</i>	31.6	25.0	34.5	26.1	44.8	46.8	37.0	41.2	27.9
	Cheju (Kosan)	<i>KR 11036</i>	23.2	20.7	28.0	22.7	23.8	34.3	28.1	37.9	26.2
	Imsil	<i>KR 11037</i>		16.4	22.9	16.3	16.5	22.8	26.8	28.8	21.0
Russia	Mondy	<i>RU 11038</i>	7.2	11.0	10.8	8.5	6.8	5.4	4.7	9.3	7.1
	Listvyanka	<i>RU 11039</i>	15.4	13.4	18.2	19.1	19.2	17.3	19.0	17.1	21.3
	Irkutsk	<i>RU 11040</i>	30.1	29.6	34.2	26.3	26.6	27.8	26.0	33.6	38.5
	Primorskaya	<i>RU 11041</i>			29.0	43.1	37.2	38.2	46.0	30.8	40.6
Thailand	Bangkok	<i>TH 11042</i>	21.6	18.2	18.6	18.5	16.3	19.5	22.3	17.2	18.0
	Samutprakarn	<i>TH 11043</i>	25.5				16.5	19.1	20.7	14.8	15.7
	Patumthani	<i>TH 11044</i>	19.6	17.2	15.0	12.4	17.5	13.2	13.4	12.0	10.6
	Khanchanaburi	<i>TH 11045</i>	3.6	5.2	5.6	3.6	3.4	2.8	4.0	2.5	3.8
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		2.8	4.5	4.1	6.9	5.9	4.5	6.0	5.0
	Nakhon Ratchasima	<i>TH 11054</i>							8.2	6.4	7.4
Viet Nam	Hanoi	<i>VN 11047</i>	30.1	14.0	33.7	30.1	37.0	51.4	46.9	33.6	20.2
	Hoa Binh	<i>VN 11048</i>	16.3	14.7	18.8	22.5	29.4	17.8	24.9	17.0	13.6

[***]: No data or not measured

Data in hatched column: Rejected annual value by the criteria of EANET (%PCL<80% or %TP<80%)

Black column: Monitoring was not carried out

Table 3.64 Volume-weighted annual mean concentrations of nss-SO₄²⁻

unit: µmol/L

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	KH 11052					***	***	5.1	22.0	8.7
China	Guanyinqiao	CN 11001	151	205	114	109	165	185	177	130	
	Nanshan	CN 11002	130								
	Haifu	CN 11058									144
	Jinyunshan	CN 11003		123	78	82.9	109	101	140	90.0	120
	Shizhan	CN 11004	353	460	835	199	171	125	271	182	190
	Weishuiyuan	CN 11005	534	1500	994	136	201	106	326		
	Jiwozi	CN 11007	140	316	295	84.5	53.7	115	124	177	140
	Hongwen	CN 11008	18.8	55.9	39.4	34.8	66.0	44.1	27.0	74.0	30.3
	Xiaoping	CN 11009	14.1	17.6	15.7	22.1	26.4	19.6	16.1	27.2	27.8
	Xiang Zhou	CN 11010	19.9	14.6	25.4	18.3	16.7	21.5	27.0	20.5	14.4
Zhuxian Cavern	CN 11011	46.3	18.0	29.3	16.4	23.8	26.1	18.0	***	19.0	
Indonesia	Jakarta	ID 11012	55.6	60.3	36.4	65.1	46.4	38.9	25.4	27.0	22.1
	Serpong	ID 11014	***	36.8	24.2	22.4	26.9	32.3	27.7	29.8	27.2
	Kototabang	ID 11013	***	4.4	7.1	8.6	4.6	5.2	7.3	6.5	2.6
	Bandung	ID 11015	***	32.5	27.2	20.0	27.0	34.6	25.7	26.0	27.5
	Maros	ID 11059									4.4
Japan	Rishiri	JP 11016	19.4	18.2	15.6	12.9	14.7	15.7	16.3	19.7	14.5
	Ochiishi	JP 11050				7.5	12.9	10.1	11.3	10.1	8.4
	Tappi	JP 11017	12.9	14.8	12.9	13.4	14.2	16.6	18.4	15.7	16.4
	Sado-seki	JP 11019	18.9	19.5	13.1	10.9	9.5	16.8	14.8	21.3	18.3
	Happo	JP 11021	12.9	11.3	7.4	7.2	8.8	11.5	10.1	12.0	10.7
	Ijira	JP 11022	18.7	20.2	18.0	18.3	12.7	18.0	20.0	17.7	17.3
	Oki	JP 11023	16.9	14.8	13.5	10.3	11.9	19.3	15.8	19.7	16.4
	Banryu	JP 11024	13.9	14.3	14.2	12.5	13.0	21.3	18.0	23.1	21.4
	Yusuhara	JP 11025	10.1	8.4	9.4	8.5	5.3	10.6	9.4	8.7	9.7
	Hedo	JP 11027	5.9	6.5	7.4	11.3	24.4	13.0	7.9	6.6	6.7
	Ogasawara	JP 11018	3.1	5.1	3.9	4.1	3.4	7.3	4.2	4.9	3.8
Tokyo	JP 11057								15.0	18.4	
Lao PDR	Vientian	LA 11051				***	***	***	3.0	4.5	4.9
Malaysia	Petaling Jaya	MY 11029	23.2	22.0	23.4	20.7	17.9	22.9	20.3	13.6	17.2
	Tanah Rata	MY 11030	4.0	3.6	4.5	3.7	3.9	5.2	4.3	3.4	3.2
	Danum Valley	MY 11053						4.1	3.1	2.0	2.3
	Kuching	MY 11060									3.8
Mongolia	Ulaanbaatar	MN 11031	23.9	24.6	24.3	19.3	21.8	26.3	24.9	36.8	27.3
	Terelj	MN 11032	16.0	8.8	14.3	8.0	12.9	16.8	23.0	24.5	15.8
Myanmar	Yangon	MM 11056								***	***
Philippines	Metro Manila	PH 11033	21.6	22.7	25.4	16.0	19.4	23.0	16.5	21.1	23.4
	Los Banos	PH 11034	8.5	13.2	14.8	6.2	7.7	8.8	9.4	7.3	16.9
	Mt. Sto. Tomas	PH 11055							1.2	5.4	3.2
Republic of Korea	Kanghwa	KR 11035	28.2	22.5	31.5	24.6	42.9	44.7	35.2	38.5	25.6
	Cheju (Kosan)	KR 11036	14.0	16.2	24.5	19.9	20.3	29.2	22.9	31.8	18.2
	Imsil	KR 11037		15.5	20.5	14.9	15.4	21.5	24.9	27.9	19.0
Russia	Mondy	RU 11038	7.1	10.8	10.7	8.4	6.7	5.3	4.6	9.1	7.0
	Listvyanka	RU 11039	15.1	13.2	18.0	18.8	18.9	17.1	18.8	17.0	21.2
	Irkutsk	RU 11040	29.6	29.1	33.6	25.9	26.2	27.4	25.4	33.0	37.9
	Primorskaya	RU 11041			27.6	41.1	35.8	36.9	45.0	29.6	39.3
Thailand	Bangkok	TH 11042	21.2	17.7	17.6	18.0	15.7	18.7	21.8	16.8	17.4
	Samutprakarn	TH 11043	24.9				15.5	17.9	19.7	14.1	14.8
	Patumthani	TH 11044	18.9	16.7	14.4	12.1	17.0	12.8	13.0	11.7	10.3
	Khanchanaburi	TH 11045	3.1	4.5	5.1	3.0	2.8	2.4	3.7	2.0	3.2
	Chiang Mai (Mae Hia)	TH 11046		2.6	3.9	4.0	6.7	5.8	4.3	5.8	4.8
	Nakhon Ratchasima	TH 11054							8.0	6.2	7.1
Viet Nam	Hanoi	VN 11047	29.0	13.3	33.4	29.6	36.5	50.4	46.1	33.1	19.6
	Hoa Binh	VN 11048	15.5	14.1	18.6	22.3	29.2	17.4	24.6	16.8	13.4

[***]: No data or not measured

Data in hatched column: Rejected annual value by the criteria of EANET (%PCL<80% or %TP<80%)

Black column: Monitoring was not carried out

Table 3.65 Volume-weighted annual mean concentrations of NO₃⁻

unit: μmol/L

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	<i>KH 11052</i>					7.7	***	9.1	8.3	9.4
China	Guanyinqiao	<i>CN 11001</i>	42.1	52.8	34.4	38.9	43.9	41.3	60.7	48.8	
	Nanshan	<i>CN 11002</i>	41.6								
	Haifu	<i>CN 11058</i>									65.0
	Jinyunshan	<i>CN 11003</i>		40.3	29.4	34.4	36.8	34.4	46.1	31.5	46.5
	Shizhan	<i>CN 11004</i>	87.0	153	150	68.0	61.7	12.1	81.7	75.9	40.2
	Weishuiyuan	<i>CN 11005</i>	95.8	210	168	54.1	69.6	11.4	104		
	Jiwozi	<i>CN 11007</i>	29.1	140	89.8	42.8	26.4	9.3	50.7	66.8	103
	Hongwen	<i>CN 11008</i>	18.7	37.9	30.7	33.6	49.8	37.3	22.4	37.6	22.9
	Xiaoping	<i>CN 11009</i>	14.6	18.7	14.8	22.6	19.6	18.1	16.0	26.2	24.6
	Xiang Zhou	<i>CN 11010</i>	15.6	14.1	17.8	20.9	22.1	17.2	21.8	16.6	12.3
Zhuxian Cavern	<i>CN 11011</i>	33.5	22.2	20.8	11.5	25.0	21.5	13.2	***	14.7	
Indonesia	Jakarta	<i>ID 11012</i>	17.6	53.7	28.2	58.4	77.6	53.9	20.5	31.1	14.1
	Serpong	<i>ID 11014</i>	***	50.7	32.6	30.8	39.7	39.4	28.3	30.4	30.3
	Kototabang	<i>ID 11013</i>	6.2	2.7	5.6	49.3	4.7	1.6	1.4	3.6	2.8
	Bandung	<i>ID 11015</i>	34.4	26.9	26.3	20.4	28.2	19.2	23.1	21.6	20.7
	Maros	<i>ID 11059</i>									3.5
Japan	Rishiri	<i>JP 11016</i>	18.1	18.0	13.5	12.2	11.6	12.6	14.0	15.6	14.7
	Ochiishi	<i>JP 11050</i>				8.0	13.5	9.3	11.4	9.6	8.4
	Tappi	<i>JP 11017</i>	12.9	15.3	16.9	16.9	16.3	18.2	22.5	21.6	22.4
	Sado-seki	<i>JP 11019</i>	18.3	22.2	15.0	13.9	11.2	18.6	18.9	25.8	23.9
	Happo	<i>JP 11021</i>	11.1	8.9	7.0	6.6	8.0	9.5	8.3	9.8	11.0
	Ijira	<i>JP 11022</i>	24.1	21.7	21.8	21.7	15.4	24.1	24.2	21.8	24.1
	Okii	<i>JP 11023</i>	18.6	15.7	15.1	12.9	17.0	21.8	18.2	23.8	19.3
	Banryu	<i>JP 11024</i>	13.9	17.4	19.1	15.9	15.6	25.5	19.5	29.2	24.6
	Yusuhara	<i>JP 11025</i>	7.0	6.8	8.4	6.9	5.3	9.4	7.6	7.2	9.0
	Hedo	<i>JP 11027</i>	5.7	6.6	9.5	9.5	13.4	11.0	8.1	6.4	6.9
	Ogasawara	<i>JP 11018</i>	2.4	3.7	2.7	4.7	3.7	3.2	4.8	4.9	3.7
Tokyo	<i>JP 11057</i>								19.5	24.4	
Lao PDR	Vientian	<i>LA 11051</i>				***	***	***	6.9	6.9	6.0
Malaysia	Petaling Jaya	<i>MY 11029</i>	27.2	23.7	36.8	32.9	29.8	35.9	30.0	26.6	36.1
	Tanah Rata	<i>MY 11030</i>	3.3	3.4	6.0	4.7	4.6	6.0	5.3	4.2	4.5
	Danum Valley	<i>MY 11053</i>						2.5	1.4	<1.0	1.4
	Kuching	<i>MY 11060</i>									5.0
Mongolia	Ulaanbaatar	<i>MN 11031</i>	19.9	20.7	23.7	15.5	15.8	18.8	18.6	26.0	20.1
	Terelj	<i>MN 11032</i>	17.6	9.2	18.1	12.4	16.1	11.8	15.5	18.3	18.3
Myanmar	Yangon	<i>MM 11056</i>								***	***
Philippines	Metro Manila	<i>PH 11033</i>	12.1	18.5	17.6	13.1	15.4	21.5	12.3	14.1	21.1
	Los Banos	<i>PH 11034</i>	5.4	13.9	8.2	4.9	6.1	9.8	8.1	6.2	8.0
	Mt. Sto. Tomas	<i>PH 11055</i>							1.9	5.5	3.9
Republic of Korea	Kanghwa	<i>KR 11035</i>	42.4	28.6	32.7	27.3	41.1	45.0	33.0	39.0	31.0
	Cheju (Kosan)	<i>KR 11036</i>	15.3	18.4	24.0	23.0	24.8	27.5	25.5	15.1	26.5
	Imsil	<i>KR 11037</i>		15.6	32.0	16.9	20.5	26.4	27.7	18.1	22.6
Russia	Mondy	<i>RU 11038</i>	10.0	10.6	13.5	6.8	6.8	5.0	5.1	8.5	7.5
	Listvyanka	<i>RU 11039</i>	18.7	14.7	25.0	29.8	19.8	11.8	14.6	20.4	15.4
	Irkutsk	<i>RU 11040</i>	21.0	18.4	21.8	17.8	17.1	16.4	16.5	18.3	17.1
	Primorskaya	<i>RU 11041</i>			10.2	15.4	21.4	21.6	29.2	19.1	33.1
Thailand	Bangkok	<i>TH 11042</i>	21.6	17.9	24.6	23.1	15.9	23.2	33.0	28.0	31.2
	Samutprakarn	<i>TH 11043</i>	15.4				9.8	17.9	14.1	16.6	17.4
	Patumthani	<i>TH 11044</i>	18.6	19.6	18.5	17.2	24.0	19.6	22.0	22.8	21.5
	Khanchanaburi	<i>TH 11045</i>	5.7	6.8	6.1	4.9	4.8	2.5	6.1	2.9	5.0
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		4.1	6.6	6.5	6.1	8.4	7.9	8.0	9.1
	Nakhon Ratchasima	<i>TH 11054</i>							11.3	11.4	11.5
Viet Nam	Hanoi	<i>VN 11047</i>	16.1	5.1	15.1	24.8	25.2	30.8	24.9	15.6	9.8
	Hoa Binh	<i>VN 11048</i>	9.7	8.8	20.2	13.4	19.9	12.9	16.1	10.5	10.2

[***]: No data or not measured

Data in hatched column: Rejected annual value by the criteria of EANET (%PCL<80% or %TP<80%)

Black column: Monitoring was not carried out

Table 3.66 Volume-weighted annual mean concentrations of CF

unit: $\mu\text{mol/L}$

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	<i>KH 11052</i>					***	6.2	6.2	12.6	8.7
China	Guanyinqiao	<i>CN 11001</i>	24.0	29.8	15.6	16.2	14.7	18.3	19.3	13.8	
	Nanshan	<i>CN 11002</i>	15.6								
	Haifu	<i>CN 11058</i>									13.8
	Jinyunshan	<i>CN 11003</i>		56.8	12.9	10.3	12.8	15.5	13.6	8.7	15.4
	Shizhan	<i>CN 11004</i>	49.0	81.3	349	83.3	36.1	34.4	35.8	39.9	33.6
	Weishuiyuan	<i>CN 11005</i>	91.6	278	285	99.4	39.4	36.5	51.1		
	Jiwozi	<i>CN 11007</i>	32.3	98.9	185	70.1	14.8	38.4	33.2	44.1	33.8
	Hongwen	<i>CN 11008</i>	32.0	35.8	42.9	51.3	60.2	66.0	45.9	39.0	31.2
	Xiaoping	<i>CN 11009</i>	20.7	28.8	9.1	23.5	16.6	11.9	22.3	14.6	18.6
	Xiang Zhou	<i>CN 11010</i>	49.8	37.8	68.9	47.4	36.4	65.8	44.6	30.9	34.8
Zhuxian Cavern	<i>CN 11011</i>	39.4	27.7	59.5	40.2	58.8	52.6	29.3	***	45.6	
Indonesia	Jakarta	<i>ID 11012</i>	21.5	38.9	28.1	52.2	39.1	41.6	15.6	18.7	11.4
	Serpong	<i>ID 11014</i>	***	32.3	23.0	27.2	23.8	19.8	10.9	14.3	17.0
	Kototabang	<i>ID 11013</i>	6.8	6.6	16.8	27.8	11.8	7.1	7.8	13.8	3.9
	Bandung	<i>ID 11015</i>	105	25.0	20.3	13.0	17.4	14.6	14.1	7.5	8.3
	Maros	<i>ID 11059</i>									20.1
Japan	Rishiri	<i>JP 11016</i>	372	235	217	201	256	233	126	161	268
	Ochiishi	<i>JP 11050</i>				227	410	232	317	219	194
	Tappi	<i>JP 11017</i>	178	156	191	154	231	250	326	262	226
	Sado-seki	<i>JP 11019</i>	274	378	307	107	154	337	256	257	236
	Happo	<i>JP 11021</i>	10.7	8.8	5.0	7.3	8.7	8.7	5.7	4.4	5.6
	Ijira	<i>JP 11022</i>	23.0	32.7	33.3	19.1	27.5	16.8	14.4	24.8	18.9
	Oki	<i>JP 11023</i>	449	359	419	201	321	696	253	312	371
	Banryu	<i>JP 11024</i>	31.0	86.5	88.9	92.5	133	110	76.0	89.2	82.5
	Yusuhara	<i>JP 11025</i>	18.7	12.3	31.8	16.0	28.1	29.9	14.0	16.2	10.0
	Hedo	<i>JP 11027</i>	515	175	593	451	982	488	217	146	138
	Ogasawara	<i>JP 11018</i>	164	123	278	286	139	115	119	154	98.8
Tokyo	<i>JP 11057</i>								41.1	23.7	
Lao PDR	Vientian	<i>LA 11051</i>				***	***	***	4.8	7.4	7.4
Malaysia	Petaling Jaya	<i>MY 11029</i>	8.5	7.5	7.3	9.2	7.4	8.8	6.9	5.7	7.5
	Tanah Rata	<i>MY 11030</i>	6.8	3.0	2.3	2.4	2.4	2.6	2.1	1.7	1.5
	Danum Valley	<i>MY 11053</i>						6.0	7.2	4.9	6.1
	Kuching	<i>MY 11060</i>									6.4
Mongolia	Ulaanbaatar	<i>MN 11031</i>	9.0	9.7	7.7	7.6	8.0	7.8	7.8	9.4	10.1
	Terelj	<i>MN 11032</i>	9.0	8.7	11.4	6.6	9.0	9.9	9.3	10.3	9.2
Myanmar	Yangon	<i>MM 11056</i>								***	***
Philippines	Metro Manila	<i>PH 11033</i>	25.6	115	18.8	24.3	24.0	14.2	23.1	27.9	28.7
	Los Banos	<i>PH 11034</i>	33.0	34.5	24.6	16.2	14.3	18.1	21.0	24.4	18.8
	Mt. Sto. Tomas	<i>PH 11055</i>							1.6	7.4	5.2
Republic of Korea	Kanghwa	<i>KR 11035</i>	54.9	42.6	43.0	61.3	55.8	56.1	36.0	57.7	45.6
	Cheju (Kosan)	<i>KR 11036</i>	210	112	83.8	68.5	79.1	105	102	104	136
	Imsil	<i>KR 11037</i>		28.7	36.9	38.1	26.7	44.0	77.5	22.4	36.6
Russia	Mondy	<i>RU 11038</i>	2.6	1.4	8.9	3.1	2.8	5.9	4.5	3.9	4.2
	Listvyanka	<i>RU 11039</i>	5.0	2.2	6.8	4.1	4.9	5.4	3.5	4.3	5.1
	Irkutsk	<i>RU 11040</i>	11.6	12.2	18.0	17.7	8.5	12.4	12.5	13.2	15.9
	Primorskaya	<i>RU 11041</i>			33.9	35.6	21.3	21.7	18.0	18.6	25.6
Thailand	Bangkok	<i>TH 11042</i>	12.6	9.4	13.9	8.7	11.3	12.3	10.8	8.2	11.3
	Samutprakarn	<i>TH 11043</i>	12.9				12.8	19.0	12.5	11.2	12.8
	Patumthani	<i>TH 11044</i>	10.4	7.8	11.6	6.4	14.3	7.1	6.8	6.6	6.6
	Khanchanaburi	<i>TH 11045</i>	17.6	10.0	14.1	8.8	10.0	7.8	6.3	6.6	10.3
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		4.5	10.1	4.7	3.8	4.2	3.7	5.8	4.6
	Nakhon Ratchasima	<i>TH 11054</i>							5.5	5.1	5.9
Viet Nam	Hanoi	<i>VN 11047</i>	24.3	27.1	9.5	21.3	14.7	27.2	15.6	11.8	8.7
	Hoa Binh	<i>VN 11048</i>	20.3	22.1	7.0	6.9	11.8	13.5	6.5	6.3	4.2

[***]: No data or not measured

Data in hatched column: Rejected annual value by the criteria of EANET
(%PCL<80% or %TP<80%)

Black column: Monitoring was not carried out

Table 3.67 Volume-weighted annual mean concentrations of NH₄⁺

											unit: µmol/L
Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	<i>KH 11052</i>					10.8	16.3	17.9	19.7	11.8
China	Guanyinqiao	<i>CN 11001</i>	161	211	120	132	137	157	179	140	
	Nanshan	<i>CN 11002</i>	105								
	Haifu	<i>CN 11058</i>									148
	Jinyunshan	<i>CN 11003</i>		111	83.5	85.6	105	105	121	75	98.8
	Shizhan	<i>CN 11004</i>	421	255	203	144	146	77.2	167	206	164
	Weishuiyuan	<i>CN 11005</i>	426	354	319	144	151	64.4	239		
	Jiwozi	<i>CN 11007</i>	199	171	71.2	82.7	37.1	37.8	48.6	11.2	31.6
	Hongwen	<i>CN 11008</i>	31.6	64.9	44.2	29.4	45.8	35.4	29.1	38.5	34.7
	Xiaoping	<i>CN 11009</i>	19.8	33.2	31.1	38.2	38.0	32.2	21.5	52.7	33.0
	Xiang Zhou	<i>CN 11010</i>	20.5	25.0	95.8	34.0	50.7	103	56.7	19.4	19.5
Zhuxian Cavern	<i>CN 11011</i>	51.0	30.3	48.4	29.9	59.5	26.1	27.4	***	18.6	
Indonesia	Jakarta	<i>ID 11012</i>	77.3	66.2	31.7	20.8	22.4	12.4	17.4	24.2	25.4
	Serpong	<i>ID 11014</i>	***	67.6	46.0	45.0	42.3	44.6	40.3	44.3	47.2
	Kototabang	<i>ID 11013</i>	1.1	2.4	5.1	1.8	12.3	9.5	9.9	18.2	7.5
	Bandung	<i>ID 11015</i>	32.8	37.9	29.9	32.7	36.8	35.8	46.5	47.9	44.8
	Maros	<i>ID 11059</i>									8.8
Japan	Rishiri	<i>JP 11016</i>	34.0	26.0	20.1	18.3	17.1	18.9	17.5	25.9	23.6
	Ochiishi	<i>JP 11050</i>				7.6	11.8	7.5	15.6	7.8	6.5
	Tappi	<i>JP 11017</i>	9.6	12.7	14.7	16.2	15.6	15.8	18.9	17.7	18.2
	Sado-seki	<i>JP 11019</i>	16.9	19.7	14.5	15.6	10.1	18.3	16.6	25.2	21.7
	Happo	<i>JP 11021</i>	14.2	10.8	7.7	6.4	8.3	10.8	9.0	11.1	10.1
	Ijira	<i>JP 11022</i>	23.8	17.6	22.8	18.1	14.7	20.3	22.8	20.7	18.0
	Oki	<i>JP 11023</i>	19.4	14.7	12.4	8.8	10.9	15.8	12.8	15.7	15.7
	Banryu	<i>JP 11024</i>	11.6	13.8	17.9	12.5	11.2	21.8	14.9	22.3	19.2
	Yusuhara	<i>JP 11025</i>	5.1	5.2	7.6	6.0	4.8	8.9	7.5	7.4	7.5
	Hedo	<i>JP 11027</i>	7.2	4.5	18.5	10.9	17.2	13.3	8.6	7.5	6.1
	Ogasawara	<i>JP 11018</i>	2.3	4.8	5.4	3.6	5.1	3.5	4.6	7.7	3.4
	Tokyo	<i>JP 11057</i>								27.7	29.9
Lao PDR	Vientian	<i>LA 11051</i>				***	***	***	7.7	10.9	8.4
Malaysia	Petaling Jaya	<i>MY 11029</i>	43.7	58.1	16.2	12.2	13.1	20.1	23.3	19.1	20.8
	Tanah Rata	<i>MY 11030</i>	41.1	35.4	4.0	2.3	2.4	2.8	3.5	3.9	3.1
	Danum Valley	<i>MY 11053</i>						2.0	2.0	1.3	9.8
	Kuching	<i>MY 11060</i>									4.6
Mongolia	Ulaanbaatar	<i>MN 11031</i>	52.0	49.9	72.8	47.5	46.2	54.4	53.7	87.1	53.3
	Terelj	<i>MN 11032</i>	44.3	30.5	65.7	31.6	35.6	36.1	54.6	38.8	51.1
Myanmar	Yangon	<i>MM 11056</i>								***	***
Philippines	Metro Manila	<i>PH 11033</i>	35.6	77.1	46.2	23.7	35.4	29.9	40.5	33.6	62.2
	Los Banos	<i>PH 11034</i>	13.6	22.4	34.5	14.5	13.9	15.0	16.3	16.8	19.6
	Mt. Sto. Tomas	<i>PH 11055</i>							<1.0	8.7	10.5
Republic of Korea	Kanghwa	<i>KR 11035</i>	37.6	37.5	40.1	57.6	75.6	66.4	53.0	58.4	35.4
	Cheju (Kosan)	<i>KR 11036</i>	20.2	32.3	43.3	41.9	36.0	30.9	26.1	28.8	26.2
	Imsil	<i>KR 11037</i>		42.3	42.2	32.5	28.2	32.4	50.2	40.0	29.9
Russia	Mondy	<i>RU 11038</i>	11.4	22.2	33.8	14.7	11.2	9.8	3.7	30.1	9.9
	Listvyanka	<i>RU 11039</i>	16.5	10.8	26.8	20.8	12.2	16.6	15.5	15.6	18.9
	Irkutsk	<i>RU 11040</i>	32.1	25.1	43.0	42.1	27.2	35.3	24.9	33.9	34.4
	Primorskaya	<i>RU 11041</i>			35.9	39.1	30.4	41.6	49.8	29.6	50.6
Thailand	Bangkok	<i>TH 11042</i>	41.3	36.2	46.8	37.5	37.8	43.4	56.1	57.8	53.8
	Samutprakarn	<i>TH 11043</i>	31.8				34.5	37.4	49.9	47.1	56.4
	Patumthani	<i>TH 11044</i>	38.3	35.5	34.2	29.1	34.0	31.2	33.5	34.4	29.7
	Khanchanaburi	<i>TH 11045</i>	6.8	11.0	10.9	12.5	8.4	5.0	17.5	13.9	10.1
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		15.8	18.5	15.8	15.7	21.0	15.2	18.8	19.9
	Nakhon Ratchasima	<i>TH 11054</i>							23.1	18.3	21.1
Viet Nam	Hanoi	<i>VN 11047</i>	27.5	20.3	55.5	55.1	52.7	98.8	45.7	48.3	30.6
	Hoa Binh	<i>VN 11048</i>	8.0	12.5	28.2	28.7	41.0	30.1	27.6	21.3	17.1

[***]: No data or not measured

█ Data in hatched column: Rejected annual value by the criteria of EANET (%PCL<80% or %TP<80%)

█ Black column: Monitoring was not carried out

Table 3.68 Volume-weighted annual mean concentrations of Na⁺

unit: $\mu\text{mol/L}$

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	<i>KH 11052</i>					***	***	1.8	8.2	10.3
China	Guanyinqiao	<i>CN 11001</i>	11.8	10.8	5.5	4.9	7.3	8.3	7.9	5.9	
	Nanshan	<i>CN 11002</i>	7.7								
	Haifu	<i>CN 11058</i>									7.0
	Jinyunshan	<i>CN 11003</i>		10.2	5.9	5.0	12.3	15.3	6.6	6.2	10.3
	Shizhan	<i>CN 11004</i>	44.1	164	246	69.2	19.1	16.1	45.2	15.6	24.4
	Weishuiyuan	<i>CN 11005</i>	68.9	219	207	113	23.3	20.5	66.9		
	Jiwozi	<i>CN 11007</i>	23.8	158	171	102	25.1	59.6	65.6	85.8	81.1
	Hongwen	<i>CN 11008</i>	23.8	10.8	55.6	34.8	50.4	51.4	30.8	24.1	22.9
	Xiaoping	<i>CN 11009</i>	8.7	11.8	16.4	24.7	13.0	9.7	23.2	12.4	22.5
	Xiang Zhou	<i>CN 11010</i>	42.1	24.6	41.5	39.1	72.1	44.1	35.5	19.4	34.6
Zhuxian Cavern	<i>CN 11011</i>	31.2	27.5	45.2	36.0	94.4	60.9	22.6	***	40.7	
Indonesia	Jakarta	<i>ID 11012</i>	52.4	39.4	35.3	27.1	37.2	23.2	13.1	15.8	10.0
	Serpong	<i>ID 11014</i>	***	23.8	25.2	11.3	19.6	16.0	7.5	11.7	10.5
	Kototabang	<i>ID 11013</i>	***	4.5	6.3	9.7	10.9	5.7	6.2	8.6	5.3
	Bandung	<i>ID 11015</i>	***	20.2	8.6	7.1	10.8	11.9	18.3	6.6	8.6
	Maros	<i>ID 11059</i>									15.7
Japan	Rishiri	<i>JP 11016</i>	325	212	197	176	229	203	110	143	247
	Ochiishi	<i>JP 11050</i>				198	360	208	278	186	171
	Tappi	<i>JP 11017</i>	149	134	165	141	199	218	289	234	197
	Sado-seki	<i>JP 11019</i>	258	355	268	93.8	135	290	224	227	215
	Happo	<i>JP 11021</i>	7.8	6.2	3.4	4.8	5.9	7.0	4.1	3.1	4.1
	Ijira	<i>JP 11022</i>	19.9	29.7	28.5	13.3	21.6	13.6	10.8	20.8	15.4
	Okii	<i>JP 11023</i>	396	316	363	185	295	602	225	275	324
	Banryu	<i>JP 11024</i>	28.9	78.2	79.4	80.9	113	92.1	66.4	78.6	72.2
	Yusuhara	<i>JP 11025</i>	15.2	11.8	28.9	14.4	24.1	25.2	11.9	13.5	8.6
	Hedo	<i>JP 11027</i>	454	160	515	430	873	449	189	129	124
	Ogasawara	<i>JP 11018</i>	139	104	236	251	125	97.3	103	133	86.2
Tokyo	<i>JP 11057</i>								34.5	19.5	
Lao PDR	Vientian	<i>LA 11051</i>				***	***	***	7.1	2.4	2.9
Malaysia	Petaling Jaya	<i>MY 11029</i>	5.0	3.7	5.1	5.6	5.7	6.6	4.3	3.6	4.2
	Tanah Rata	<i>MY 11030</i>	1.9	1.9	1.6	1.9	1.8	6.6	1.4	1.5	1.2
	Danum Valley	<i>MY 11053</i>						4.5	5.6	4.1	3.2
	Kuching	<i>MY 11060</i>									5.4
Mongolia	Ulaanbaatar	<i>MN 11031</i>	7.9	9.1	6.3	3.8	5.8	7.2	8.4	5.2	3.6
	Terej	<i>MN 11032</i>	6.5	15.9	16.9	4.5	6.3	11.5	12.5	9.4	5.5
Myanmar	Yangon	<i>MM 11056</i>								***	***
Philippines	Metro Manila	<i>PH 11033</i>	30.6	205	14.6	18.4	16.3	15.9	17.2	20.2	24.6
	Los Banos	<i>PH 11034</i>	34.8	37.2	21.1	15.3	12.0	17.2	22.7	17.6	19.1
	Mt. Sto. Tomas	<i>PH 11055</i>							2.8	5.7	5.1
Republic of Korea	Kanghwa	<i>KR 11035</i>	56.3	41.7	49.2	25.4	32.5	33.7	28.8	44.3	39.3
	Cheju (Kosan)	<i>KR 11036</i>	152	74.7	58.3	46.7	57.8	84.8	85.0	101.0	133
	Imsil	<i>KR 11037</i>		15.4	38.6	22.8	17.9	21.7	31.1	15.0	32.0
Russia	Mondy	<i>RU 11038</i>	1.8	2.3	1.9	2.3	1.9	1.5	1.6	3.1	1.8
	Listvyanka	<i>RU 11039</i>	4.6	3.4	3.8	5.1	4.7	3.0	2.8	2.6	2.5
	Irkutsk	<i>RU 11040</i>	8.8	8.3	9.2	6.6	6.6	6.9	10.0	9.9	10.0
	Primorskaya	<i>RU 11041</i>			23.1	33.7	22.5	21.7	16.8	19.8	22.9
Thailand	Bangkok	<i>TH 11042</i>	6.9	8.3	16.1	7.6	10.2	12.8	8.7	7.1	9.8
	Samutprakarn	<i>TH 11043</i>	10.1				16.5	19.8	14.6	12.2	15.4
	Patumthani	<i>TH 11044</i>	10.9	8.1	9.6	4.7	8.9	6.6	7.5	5.8	6.0
	Khanchanaburi	<i>TH 11045</i>	9.7	11.3	8.3	10.3	9.0	6.7	6.9	7.0	9.2
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		3.9	9.7	3.2	3.1	<1.0	3.5	2.9	2.6
	Nakhon Ratchasima	<i>TH 11054</i>							4.5	4.5	4.2
Viet Nam	Hanoi	<i>VN 11047</i>	18.1	11.5	5.9	9.0	8.1	17.7	13.5	8.2	9.6
	Hoa Binh	<i>VN 11048</i>	12.7	9.8	2.1	2.4	3.9	7.5	4.5	3.2	3.1

[***]: No data or not measured

Data in hatched column: Rejected annual value by the criteria of EANET (%PCL<80% or %TP<80%)

Black column: Monitoring was not carried out

Table 3.69 Volume-weighted annual mean concentrations of K⁺

unit: µmol/L

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	KH 11052					1.6	***	1.5	3.6	10.3
China	Guanyinqiao	CN 11001	14.2	18.7	10.6	11.0	10.9	12.4	12.6	8.8	
	Nanshan	CN 11002	16.3								
	Haifu	CN 11058									11.5
	Jinyunshan	CN 11003		44.4	10.3	8.6	11.7	11.4	11.4	6.8	9.5
	Shizhan	CN 11004	26.5	42.2	40.5	18.7	9.6	15.4	18.0	19.3	13.3
	Weishuiyuan	CN 11005	34.7	74.9	76.6	20.3	11.3	12.6	33.6		
	Jiwozi	CN 11007	17.9	43.6	42.2	21.3	8.5	27.7	20.8	28.0	29.0
	Hongwen	CN 11008	5.0	10.4	4.3	4.3	7.2	5.1	3.3	3.7	2.1
	Xiaoping	CN 11009	2.8	4.2	3.8	4.7	5.1	2.8	13.5	7.3	10.2
	Xiang Zhou	CN 11010	6.6	4.0	17.6	5.7	7.7	2.7	8.2	8.3	1.7
Zhuxian Cavern	CN 11011	6.2	5.9	13.2	6.6	22.7	5.6	2.6	***	4.5	
Indonesia	Jakarta	ID 11012	***	24.3	11.3	9.3	10.3	5.7	8.0	11.2	3.5
	Serpong	ID 11014	***	7.0	3.9	8.0	5.6	6.2	4.5	2.8	2.2
	Kototabang	ID 11013	***	1.3	5.1	20.0	6.3	4.4	4.6	8.4	3.4
	Bandung	ID 11015	***	12.6	2.0	4.1	3.3	4.7	4.8	2.0	2.3
	Maros	ID 11059									5.8
Japan	Rishiri	JP 11016	9.9	6.0	5.1	4.9	6.0	5.1	3.7	4.1	6.6
	Ochiishi	JP 11050				4.6	8.1	5.3	7.7	4.6	3.8
	Tappi	JP 11017	3.6	3.3	4.1	3.4	4.9	5.0	7.1	5.7	5.4
	Sado-seki	JP 11019	6.4	8.2	6.5	2.5	3.6	6.6	5.7	5.9	7.2
	Happo	JP 11021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Ijira	JP 11022	2.9	4.1	2.1	1.2	1.1	<1.0	<1.0	1.1	<1.0
	Okii	JP 11023	10.5	8.8	9.5	5.4	9.6	15.5	6.6	9.1	11.9
	Banryu	JP 11024	1.4	2.7	2.9	2.5	3.0	3.7	2.2	3.1	2.5
	Yusuhara	JP 11025	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Hedo	JP 11027	9.1	3.6	12.0	10.1	24.6	11.3	4.7	3.3	3.2
	Ogasawara	JP 11018	3.6	4.1	6.2	5.6	3.1	2.3	2.5	3.2	2.6
Tokyo	JP 11057								1.4	1.1	
Lao PDR	Vientian	LA 11051				***	***	***	3.5	1.7	1.7
Malaysia	Petaling Jaya	MY 11029	1.8	1.4	1.3	3.0	1.6	2.5	1.6	<1.0	1.2
	Tanah Rata	MY 11030	1.1	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<1.0
	Danum Valley	MY 11053						1.2	1.0	1.1	2.5
	Kuching	MY 11060									<1.0
Mongolia	Ulaanbaatar	MN 11031	3.9	4.6	3.8	3.4	2.8	4.3	5.2	1.3	2.8
	Terelj	MN 11032	4.5	3.8	10.2	4.1	4.7	6.5	9.0	3.8	6.5
Myanmar	Yangon	MM 11056								***	***
Philippines	Metro Manila	PH 11033	15.5	23.2	9.9	2.5	3.9	3.9	12.6	5.4	15.6
	Los Banos	PH 11034	1.7	9.5	6.4	1.8	2.1	2.2	2.5	4.9	2.9
	Mt. Sto. Tomas	PH 11055							1.3	2.3	<1.0
Republic of Korea	Kanghwa	KR 11035	5.6	4.7	8.8	9.4	11.4	6.5	4.9	10.8	5.4
	Cheju (Kosan)	KR 11036	6.3	9.4	6.4	8.2	8.1	8.6	6.0	7.2	10.4
	Imsil	KR 11037		14.8	6.5	11.2	5.7	48.6	42.1	14.3	5.6
Russia	Mondy	RU 11038	1.2	2.1	2.3	1.6	2.7	1.0	1.1	2.5	2.0
	Listvyanka	RU 11039	4.7	1.7	2.2	2.6	2.4	1.1	1.5	1.3	3.4
	Irkutsk	RU 11040	4.4	7.4	2.3	2.6	2.7	3.4	7.6	7.8	9.0
	Primorskaya	RU 11041			5.3	10.1	7.2	7.1	5.5	6.2	9.0
Thailand	Bangkok	TH 11042	3.2	4.1	3.4	2.6	1.6	2.2	2.8	1.6	2.0
	Samutprakarn	TH 11043	5.3				4.9	4.9	4.3	2.9	6.1
	Patumthani	TH 11044	2.3	1.7	1.5	1.2	1.2	1.2	1.7	1.6	1.5
	Khanchanaburi	TH 11045	8.9	5.0	2.4	2.0	1.1	<1.0	2.4	<1.0	1.2
	Chiang Mai (Mae Hia)	TH 11046		2.9	4.4	4.0	1.4	<1.0	1.7	2.9	2.6
	Nakhon Ratchasima	TH 11054							<1.0	1.4	1.2
Viet Nam	Hanoi	VN 11047	4.1	3.8	2.1	2.6	3.0	5.2	3.8	2.7	2.8
	Hoa Binh	VN 11048	3.6	2.3	1.5	1.5	1.7	3.6	2.4	2.2	3.2

[***]: No data or not measured

Data in hatched column: Rejected annual value by the criteria of EANET (%PCL<80% or %TP<80%)

Black column: Monitoring was not carried out

Table 3.70 Volume-weighted annual mean concentrations of Ca²⁺

unit: µmol/L

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	<i>KH 11052</i>					<0.2	***	9.1	19.2	32.6
China	Guanyinqiao	<i>CN 11001</i>	63.0	137	65.4	65.4	110	156	143	75.2	
	Nanshan	<i>CN 11002</i>	55.2								
	Haifu	<i>CN 11058</i>									65.3
	Jinyunshan	<i>CN 11003</i>		44.9	29.7	30.7	70.5	57.7	98.3	55.1	68.3
	Shizhan	<i>CN 11004</i>	229	675	479	258	147	107	301	116	150
	Weishuiyuan	<i>CN 11005</i>	305	1160	617	241	190	91.0	330		
	Jiwozi	<i>CN 11007</i>	124	429	276	230	88.0	129	221	347	266
	Hongwen	<i>CN 11008</i>	6.7	36.3	49.1	30.7	83.7	37.4	25.5	54.9	14.1
	Xiaoping	<i>CN 11009</i>	0.8	5.1	10.6	17.3	6.4	10.6	10.5	16.7	15.6
	Xiang Zhou	<i>CN 11010</i>	21.2	8.0	15.5	22.8	18.0	7.3	14.1	4.7	5.4
	Zhuxian Cavern	<i>CN 11011</i>	25.0	14.3	20.7	20.2	24.7	17.0	17.1	***	13.6
Indonesia	Jakarta	<i>ID 11012</i>	87.6	64.4	42.9	101	50.9	17.4	18.8	13.9	4.4
	Serpong	<i>ID 11014</i>	***	13.6	9.9	6.6	10.5	12.0	7.2	7.4	8.0
	Kototabang	<i>ID 11013</i>	4.0	1.4	4.9	5.5	7.0	3.4	5.2	4.7	4.9
	Bandung	<i>ID 11015</i>	***	24.2	17.1	10.9	18.3	15.9	14.8	9.5	11.3
	Maros	<i>ID 11059</i>									8.4
Japan	Rishiri	<i>JP 11016</i>	13.7	10.1	10.2	7.7	8.6	7.6	5.3	5.8	8.7
	Ochiishi	<i>JP 11050</i>				5.7	12.2	9.0	10.2	7.0	5.3
	Tappi	<i>JP 11017</i>	6.4	5.8	9.0	7.0	7.8	10.7	12.7	11.0	10.3
	Sado-seki	<i>JP 11019</i>	11.7	15.8	9.1	5.1	4.7	10.2	12.1	11.8	10.3
	Happo	<i>JP 11021</i>	3.9	4.3	2.0	1.9	2.4	4.1	6.3	2.9	2.7
	Ijira	<i>JP 11022</i>	6.8	5.6	4.2	2.9	2.3	2.8	2.9	3.6	2.2
	Oki	<i>JP 11023</i>	16.0	12.9	11.5	6.9	11.9	18.6	11.4	13.6	10.9
	Banryu	<i>JP 11024</i>	4.2	6.0	5.4	3.4	5.3	5.9	9.5	7.4	7.4
	Yusuhara	<i>JP 11025</i>	2.7	3.4	1.8	1.4	1.8	2.4	2.6	2.0	1.7
	Hedo	<i>JP 11027</i>	10.1	4.9	14.0	10.9	22.7	14.1	9.2	4.9	4.2
	Ogasawara	<i>JP 11018</i>	5.1	5.4	8.6	8.0	3.4	2.6	3.6	4.4	2.5
Tokyo	<i>JP 11057</i>								5.0	4.1	
Lao PDR	Vientian	<i>LA 11051</i>				***	***	***	8.7	3.0	5.8
Malaysia	Petaling Jaya	<i>MY 11029</i>	6.8	6.3	7.4	7.8	5.1	6.1	3.8	3.9	3.9
	Tanah Rata	<i>MY 11030</i>	2.3	3.1	3.1	3.3	2.3	1.8	1.1	1.0	0.8
	Danum Valley	<i>MY 11053</i>						1.4	1.3	0.5	0.4
	Kuching	<i>MY 11060</i>									1.9
Mongolia	Ulaanbaatar	<i>MN 11031</i>	37.7	47.4	49.9	26.5	43.2	49.8	45.9	41.2	42.9
	Terelj	<i>MN 11032</i>	15.2	15.0	27.3	10.7	16.2	13.6	24.8	13.6	17.9
Myanmar	Yangon	<i>MM 11056</i>								***	***
Philippines	Metro Manila	<i>PH 11033</i>	14.5	71.6	8.7	8.8	11.1	10.6	13.7	10.4	13.7
	Los Banos	<i>PH 11034</i>	7.0	65.3	7.2	7.8	5.4	3.5	6.9	5.2	3.7
	Mt. Sto. Tomas	<i>PH 11055</i>							5.6	23.4	3.1
Republic of Korea	Kanghwa	<i>KR 11035</i>	26.5	14.0	11.1	11.3	14.0	11.1	15.8	12.4	10.8
	Cheju (Kosan)	<i>KR 11036</i>	13.8	5.9	9.4	8.1	7.7	11.3	9.0	10.6	10.5
	Imsil	<i>KR 11037</i>		5.8	9.8	5.4	6.8	5.0	14.7	13.7	6.9
Russia	Mondy	<i>RU 11038</i>	5.8	7.0	8.5	3.8	5.3	4.2	5.5	6.9	8.0
	Listvyanka	<i>RU 11039</i>	12.8	7.3	11.4	14.3	14.1	8.2	8.8	9.0	8.2
	Irkutsk	<i>RU 11040</i>	28.0	34.8	31.5	23.9	21.9	21.6	29.9	26.5	29.5
	Primorskaya	<i>RU 11041</i>			18.1	25.3	21.5	21.1	25.0	14.0	19.4
Thailand	Bangkok	<i>TH 11042</i>	11.4	12.0	15.7	11.9	11.0	18.6	18.4	13.6	16.1
	Samutprakarn	<i>TH 11043</i>	11.1				7.8	9.7	14.8	11.0	13.8
	Patumthani	<i>TH 11044</i>	13.2	13.0	17.4	6.3	11.4	8.5	12.8	8.5	11.6
	Khanchanaburi	<i>TH 11045</i>	4.8	9.0	4.9	8.4	4.8	2.5	2.7	3.0	4.6
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		6.9	18.0	5.7	4.8	3.8	4.7	8.0	6.7
	Nakhon Ratchasima	<i>TH 11054</i>							9.5	3.7	3.4
Viet Nam	Hanoi	<i>VN 11047</i>	20.9	10.7	16.8	17.8	25.0	26.1	35.2	18.1	11.8
	Hoa Binh	<i>VN 11048</i>	13.1	10.4	12.6	12.0	19.9	14.3	17.8	9.3	14.5

[***]: No data or not measured

Data in hatched column: Rejected annual value by the criteria of EANET
(%PCL<80% or %TP<80%)

Black column: Monitoring was not carried out

Table 3.71 Volume-weighted annual mean concentrations of nss-Ca²⁺

unit: µmol/L

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	KH 11052					***	***	9.1	19.1	32.5
China	Guanyinqiao	CN 11001	62.8	137	65.3	65.3	110	156	143	75.1	
	Nanshan	CN 11002	55.0								
	Haifu	CN 11058									65.2
	Jinyunshan	CN 11003		44.7	29.6	30.6	70.2	57.4	98.2	55.0	68.1
	Shizhan	CN 11004	228	672	474	257	147	107	300	116	149
	Weishuiyuan	CN 11005	303	1150	612	238	189	90.6	328		
	Jiwozi	CN 11007	123	425	273	227	87.4	128	220	345	264
	Hongwen	CN 11008	6.3	36.1	47.9	30.0	82.6	36.3	24.8	54.4	13.6
	Xiaoping	CN 11009	0.6	4.9	10.3	16.8	6.1	10.4	10.0	16.4	15.1
	Xiang Zhou	CN 11010	20.3	7.4	14.6	21.9	16.4	6.5	13.3	4.3	4.7
Zhuxian Cavern	CN 11011	24.3	13.7	19.7	19.4	22.7	15.7	16.7	***	12.7	
Indonesia	Jakarta	ID 11012	86.4	63.5	42.2	101	50.2	16.9	18.5	13.6	4.1
	Serpong	ID 11014	***	13.1	9.4	6.4	10.1	11.7	7.0	7.2	7.8
	Kototabang	ID 11013	***	1.4	4.8	5.3	6.7	3.3	5.1	4.5	4.8
	Bandung	ID 11015	***	23.7	16.9	10.7	18.0	15.4	14.4	9.4	11.1
	Maros	ID 11059									8.0
Japan	Rishiri	JP 11016	6.7	5.5	5.9	4.0	3.7	3.3	3.0	2.8	3.4
	Ochiishi	JP 11050				1.6	4.5	4.4	4.3	3.0	1.7
	Tappi	JP 11017	3.2	3.0	5.5	3.9	3.5	6.1	6.5	6.0	6.1
	Sado-seki	JP 11019	6.2	8.3	3.4	3.1	1.9	3.9	7.3	6.9	5.7
	Happo	JP 11021	3.7	4.2	1.9	1.8	2.2	4.0	6.2	2.8	2.6
	Ijira	JP 11022	6.3	5.0	3.6	2.6	1.9	2.5	2.7	3.2	1.9
	Oki	JP 11023	7.5	6.1	3.9	2.9	5.5	5.5	6.9	7.7	3.9
	Banryu	JP 11024	3.7	4.3	3.7	1.7	2.9	3.9	8.1	5.7	5.8
	Yusuhara	JP 11025	2.4	3.2	1.2	1.1	1.3	1.8	2.4	1.7	1.5
	Hedo	JP 11027	0.8	1.7	2.9	3.5	4.3	4.4	5.1	2.1	1.5
	Ogasawara	JP 11018	2.1	3.2	3.6	2.6	1.0	0.6	1.4	1.5	0.9
	Tokyo	JP 11057								4.2	3.7
Lao PDR	Vientian	LA 11051				***	***	***	8.6	3.0	5.7
Malaysia	Petaling Jaya	MY 11029	6.7	6.2	7.3	7.7	4.9	5.9	3.7	3.9	3.8
	Tanah Rata	MY 11030	2.2	3.1	3.0	3.3	2.3	1.7	1.1	1.0	0.8
	Danum Valley	MY 11053						1.3	1.2	0.5	0.3
	Kuching	MY 11060									1.8
Mongolia	Ulaanbaatar	MN 11031	37.6	47.2	49.8	26.4	43.0	49.6	45.7	41.1	42.9
	Terelj	MN 11032	15.1	14.6	26.3	10.6	16.1	13.3	24.5	13.4	17.7
Myanmar	Yangon	MM 11056								***	***
Philippines	Metro Manila	PH 11033	13.9	67.2	8.4	8.4	10.8	10.3	13.3	10.0	13.2
	Los Banos	PH 11034	6.2	64.5	6.8	7.5	5.1	3.2	6.4	4.8	3.3
	Mt. Sto. Tomas	PH 11055							5.6	23.3	3.0
Republic of Korea	Kanghwa	KR 11035	25.3	13.1	10.0	10.8	13.3	10.3	15.2	11.5	10.0
	Cheju (Kosan)	KR 11036	10.5	4.3	8.1	7.1	6.5	9.4	7.2	8.4	7.6
	Imsil	KR 11037		5.5	9.0	4.9	6.4	4.5	14.0	13.3	6.2
Russia	Mondy	RU 11038	5.7	6.9	8.5	3.8	5.3	4.1	5.4	6.8	7.9
	Listvyanka	RU 11039	12.7	7.2	11.3	14.1	14.0	8.2	8.8	9.0	8.1
	Irkutsk	RU 11040	27.8	34.6	31.3	23.7	21.7	21.4	29.7	26.3	29.2
	Primorskaya	RU 11041			17.6	24.6	21.0	20.7	24.7	13.5	18.9
Thailand	Bangkok	TH 11042	11.2	11.8	15.4	11.7	10.7	18.4	18.2	13.5	15.9
	Samutprakarn	TH 11043	10.8				7.5	9.3	14.5	10.7	13.5
	Patumthani	TH 11044	12.9	12.8	17.2	6.2	11.2	8.3	12.7	8.4	11.5
	Khanchanaburi	TH 11045	4.6	8.8	4.7	8.2	4.6	2.3	2.6	2.9	4.4
	Chiang Mai (Mae Hia)	TH 11046		6.9	17.8	5.6	4.7	3.7	4.7	8.0	6.6
	Nakhon Ratchasima	TH 11054							9.4	3.7	3.3
Viet Nam	Hanoi	VN 11047	20.5	10.4	16.7	17.6	24.8	25.7	35.0	17.9	11.6
	Hoa Binh	VN 11048	12.8	10.2	12.6	11.9	19.8	14.1	17.7	9.3	14.4

[***]: No data or not measured

Data in hatched column: Rejected annual value by the criteria of EANET (%PCL<80% or %TP<80%)

Black column: Monitoring was not carried out

Table 3.72 Volume-weighted annual mean concentrations of Mg²⁺

			unit: µmol/L								
Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	<i>KH 11052</i>					<0.4	***	0.7	3.3	3.5
China	Guanyinqiao	<i>CN 11001</i>	8.5	11.6	6.0	4.5	9.1	12.7	12.6	8.0	
	Nanshan	<i>CN 11002</i>	7.0								
	Haifu	<i>CN 11058</i>									7.1
	Jinyunshan	<i>CN 11003</i>		5.8	3.4	2.9	3.5	3.2	4.0	2.8	4.6
	Shizhan	<i>CN 11004</i>	23.6	48.5	67.9	33.5	15.3	13.2	28.3	21.4	45.4
	Weishuiyuan	<i>CN 11005</i>	31.7	88.4	91.1	40.0	19.3	10.9	42.0		
	Jiwozi	<i>CN 11007</i>	14.6	41.1	50.1	33.9	16.6	30.9	40.6	48.8	77.3
	Hongwen	<i>CN 11008</i>	4.2	6.3	9.6	6.0	11.4	9.0	5.4	6.2	4.9
	Xiaoping	<i>CN 11009</i>	1.3	2.5	1.6	4.0	1.4	1.1	2.8	2.1	3.4
	Xiang Zhou	<i>CN 11010</i>	6.9	2.9	5.5	7.1	6.3	6.9	12.0	2.4	4.0
	Zhuxian Cavern	<i>CN 11011</i>	7.9	3.3	7.1	7.4	8.5	9.1	5.0	***	5.7
Indonesia	Jakarta	<i>ID 11012</i>	219	69.0	13.1	12.7	6.3	3.6	8.6	2.2	1.7
	Serpong	<i>ID 11014</i>	***	3.5	4.5	2.7	4.0	3.7	1.7	2.6	4.1
	Kototabang	<i>ID 11013</i>	***	1.0	2.6	6.8	1.8	0.9	2.3	3.8	1.0
	Bandung	<i>ID 11015</i>	***	4.1	1.6	1.7	3.3	2.5	3.3	1.7	4.4
	Maros	<i>ID 11059</i>									2.6
Japan	Rishiri	<i>JP 11016</i>	36.3	24.8	22.3	20.3	26.4	23.3	12.6	17.0	30.0
	Ochiishi	<i>JP 11050</i>				22.1	42.2	22.2	31.2	21.5	19.8
	Tappi	<i>JP 11017</i>	17.5	15.5	19.6	16.8	23.4	24.2	33.3	26.4	23.1
	Sado-seki	<i>JP 11019</i>	29.0	40.5	30.7	11.3	15.6	33.0	25.9	26.1	23.5
	Happo	<i>JP 11021</i>	1.7	1.6	0.9	1.2	1.3	1.2	1.0	0.7	0.7
	Ijira	<i>JP 11022</i>	2.9	4.0	3.5	2.2	2.8	1.8	1.6	2.8	1.7
	Oki	<i>JP 11023</i>	45.0	36.6	40.6	21.2	34.4	69.9	26.9	31.7	36.7
	Banryu	<i>JP 11024</i>	3.3	9.1	9.3	9.3	13.2	10.8	8.3	9.9	8.9
	Yusuhara	<i>JP 11025</i>	2.2	1.8	3.6	1.8	2.9	3.0	1.7	1.8	1.1
	Hedo	<i>JP 11027</i>	50.0	16.9	59.0	49.3	91.0	47.3	21.8	14.8	14.2
	Ogasawara	<i>JP 11018</i>	19.2	13.3	32.4	31.1	13.0	10.7	11.4	15.0	10.6
Tokyo	<i>JP 11057</i>								4.2	2.8	
Lao PDR	Vientian	<i>LA 11051</i>				***	***	***	3.5	0.7	1.3
Malaysia	Petaling Jaya	<i>MY 11029</i>	1.4	1.3	1.4	0.7	0.9	0.8	0.7	<0.4	0.5
	Tanah Rata	<i>MY 11030</i>	0.4	0.4	0.4	0.5	<0.4	0.5	<0.4	<0.4	<0.4
	Danum Valley	<i>MY 11053</i>						<0.4	0.5	0.4	0.5
	Kuching	<i>MY 11060</i>									<0.4
Mongolia	Ulaanbaatar	<i>MN 11031</i>	4.1	5.4	3.6	3.7	5.9	5.2	4.4	4.7	3.7
	Terelj	<i>MN 11032</i>	3.2	2.5	4.1	2.3	5.2	3.7	4.8	2.1	3.0
Myanmar	Yangon	<i>MM 11056</i>								***	***
Philippines	Metro Manila	<i>PH 11033</i>	6.3	15.0	3.3	3.0	4.4	2.5	5.5	4.1	4.6
	Los Banos	<i>PH 11034</i>	3.7	11.1	2.9	2.6	3.6	2.3	3.4	3.5	4.6
	Mt. Sto. Tomas	<i>PH 11055</i>							1.0	2.1	<0.4
Republic of Korea	Kanghwa	<i>KR 11035</i>	9.3	5.3	6.3	2.9	5.5	6.2	5.1	6.7	2.8
	Cheju (Kosan)	<i>KR 11036</i>	18.6	10.0	7.5	5.9	7.3	15.0	9.6	7.3	9.7
	Imsil	<i>KR 11037</i>		1.9	3.3	1.6	2.4	1.8	4.0	3.6	2.0
Russia	Mondy	<i>RU 11038</i>	1.1	1.5	2.2	0.8	1.3	1.0	1.0	1.8	2.0
	Listvyanka	<i>RU 11039</i>	2.9	1.8	3.0	3.6	3.2	1.6	1.7	1.9	1.8
	Irkutsk	<i>RU 11040</i>	5.0	5.5	5.7	4.3	4.8	5.1	5.8	6.3	6.4
	Primorskaya	<i>RU 11041</i>			5.7	11.2	7.0	5.7	5.5	4.3	6.3
Thailand	Bangkok	<i>TH 11042</i>	2.0	3.2	3.5	2.3	2.1	3.8	2.3	1.7	2.3
	Samutprakarn	<i>TH 11043</i>	2.4				1.9	3.4	4.6	2.7	4.0
	Patumthani	<i>TH 11044</i>	2.4	2.2	2.8	1.1	1.6	1.3	1.8	1.3	1.7
	Khanchanaburi	<i>TH 11045</i>	1.7	2.5	1.7	2.2	1.6	1.1	1.0	1.0	1.6
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		1.1	3.5	2.1	1.8	1.0	2.4	1.2	1.8
	Nakhon Ratchasima	<i>TH 11054</i>							2.0	1.8	1.2
Viet Nam	Hanoi	<i>VN 11047</i>	5.0	4.0	3.0	3.6	3.8	8.6	8.6	4.2	3.6
	Hoa Binh	<i>VN 11048</i>	4.7	3.7	1.4	2.1	2.5	4.2	5.3	2.8	1.6

[***]: No data or not measured

Data in hatched column: Rejected annual value by the criteria of EANET (%PCL<80% or %TP<80%)

Black column: Monitoring was not carried out

Table 3.73 Volume-weighted annual mean concentrations of H⁺

unit: µmol/L											
Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	<i>KH 11052</i>					4.8	0.5	0.2	0.2	1.4
China	Guanyinqiao	<i>CN 11001</i>	46.7	16.1	25.2	32.2	25.9	11.2	13.7	22.6	
	Nanshan	<i>CN 11002</i>	60.5								
	Haifu	<i>CN 11058</i>									63.5
	Jinyunshan	<i>CN 11003</i>		65.4	43.6	50.3	25.9	23.7	20.4	30.0	44.0
	Shizhan	<i>CN 11004</i>	2.1	0.4	0.6	1.0	0.5	3.9	2.8	3.0	0.4
	Weishuiyuan	<i>CN 11005</i>	0.4	0.5	0.9	0.8	1.1	7.0	1.5		
	Jiwozi	<i>CN 11007</i>	3.8	0.6	1.0	0.9	0.8	0.6	1.4	0.1	0.1
	Hongwen	<i>CN 11008</i>	19.1	29.6	16.2	34.4	19.4	19.9	14.7	16.2	25.7
	Xiaoping	<i>CN 11009</i>	12.2	12.6	33.6	41.4	24.6	16.5	16.5	25.4	27.9
	Xiang Zhou	<i>CN 11010</i>	7.0	11.4	7.8	7.9	16.5	27.3	13.4	23.3	11.7
Zhuxian Cavern	<i>CN 11011</i>	23.0	16.7	12.8	7.9	23.2	24.4	15.0	***	13.1	
Indonesia	Jakarta	<i>ID 11012</i>	6.6	3.8	16.9	7.0	20.4	49.1	41.5	27.5	22.5
	Serpong	<i>ID 11014</i>	***	23.7	22.6	24.1	20.8	25.6	25.0	25.8	23.9
	Kototabang	<i>ID 11013</i>	31.2	8.5	4.9	5.0	18.5	20.9	29.4	5.3	6.0
	Bandung	<i>ID 11015</i>	***	10.1	34.9	10.0	9.3	9.3	7.0	11.8	6.8
	Maros	<i>ID 11059</i>									2.4
Japan	Rishiri	<i>JP 11016</i>	15.7	16.8	15.0	13.3	14.4	18.4	21.5	26.3	12.3
	Ochiishi	<i>JP 11050</i>				12.2	20.7	14.6	13.8	16.7	13.5
	Tappi	<i>JP 11017</i>	19.0	23.0	20.9	27.0	25.4	24.9	26.5	23.8	26.0
	Sado-seki	<i>JP 11019</i>	26.9	23.2	22.7	21.5	19.7	27.6	19.7	31.4	27.9
	Happo	<i>JP 11021</i>	18.6	14.6	11.8	12.4	13.9	15.9	10.7	16.2	14.7
	Ijira	<i>JP 11022</i>	30.1	37.1	30.4	38.7	22.1	30.9	31.0	29.3	35.7
	Oki	<i>JP 11023</i>	22.8	17.0	18.6	17.5	15.9	27.4	18.7	23.1	25.0
	Banryu	<i>JP 11024</i>	22.9	21.9	20.4	23.3	19.9	32.7	20.5	32.3	29.3
	Yusuhara	<i>JP 11025</i>	19.5	14.9	17.4	18.4	10.6	22.8	14.4	15.3	21.6
	Hedo	<i>JP 11027</i>	7.4	10.9	11.3	12.5	16.5	14.7	10.1	10.2	10.0
	Ogasawara	<i>JP 11018</i>	5.9	8.1	8.2	9.1	7.5	15.4	10.1	9.4	10.0
	Tokyo	<i>JP 11057</i>								16.3	24.8
Lao PDR	Vientian	<i>LA 11051</i>				0.3	2.3	0.5	0.3	2.2	1.0
Malaysia	Petaling Jaya	<i>MY 11029</i>	44.9	56.0	58.8	52.1	47.3	43.1	37.8	27.6	37.2
	Tanah Rata	<i>MY 11030</i>	16.1	12.7	10.8	12.7	13.7	14.3	11.3	11.1	8.0
	Danum Valley	<i>MY 11053</i>						10.5	8.9	8.0	6.0
	Kuching	<i>MY 11060</i>									5.5
Mongolia	Ulaanbaatar	<i>MN 11031</i>	0.5	0.6	0.4	1.9	0.3	1.0	0.4	0.5	0.5
	Terej	<i>MN 11032</i>	3.0	0.9	1.8	4.0	1.6	5.4	6.9	6.0	3.7
Myanmar	Yangon	<i>MM 11056</i>								2.7	0.4
Philippines	Metro Manila	<i>PH 11033</i>	3.3	3.9	8.1	36.2	6.6	11.3	5.0	5.3	2.8
	Los Banos	<i>PH 11034</i>	3.6	3.0	1.8	32.5	5.5	7.3	2.4	2.9	11.2
	Mt. Sto. Tomas	<i>PH 11055</i>							0.5	3.0	3.2
Republic of Korea	Kanghwa	<i>KR 11035</i>	10.0	10.2	22.2	21.3	27.2	56.9	21.0	24.0	28.4
	Cheju (Kosan)	<i>KR 11036</i>	14.1	12.9	24.3	15.0	18.2	28.5	45.9	30.7	21.5
	Imsil	<i>KR 11037</i>		8.0	2.0	8.3	11.8	1.0	6.5	1.9	13.1
Russia	Mondy	<i>RU 11038</i>	5.5	3.1	4.1	4.5	4.6	4.3	4.1	3.0	6.7
	Listvyanka	<i>RU 11039</i>	8.6	11.0	13.2	9.7	12.1	14.7	22.8	21.6	23.2
	Irkutsk	<i>RU 11040</i>	7.8	5.3	9.4	4.2	12.2	7.6	7.0	11.7	17.1
	Primorskaya	<i>RU 11041</i>			6.3	13.2	14.5	8.7	15.0	14.5	16.3
Thailand	Bangkok	<i>TH 11042</i>	11.1	10.7	7.9	29.5	6.5	12.7	6.9	9.0	5.3
	Samutprakarn	<i>TH 11043</i>	14.8				3.4	3.4	1.4	2.5	5.1
	Patumthani	<i>TH 11044</i>	5.7	7.4	4.6	13.7	13.6	12.9	13.0	15.6	9.2
	Khanchanaburi	<i>TH 11045</i>	2.7	5.5	2.3	3.5	0.8	2.9	1.8	1.7	2.2
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		1.9	1.9	2.5	2.5	5.9	2.0	1.1	1.0
	Nakhon Ratchasima	<i>TH 11054</i>							7.6	8.3	9.3
Viet Nam	Hanoi	<i>VN 11047</i>	3.6	1.5	2.8	1.5	2.3	0.7	1.8	2.6	1.4
	Hoa Binh	<i>VN 11048</i>	7.8	9.1	6.5	4.2	2.5	2.0	2.6	8.7	3.2

[***]: No data or not measured

█ Data in hatched column: Rejected annual value by the criteria of EANET (%PCL<80% or %TP<80%)

█ Black column: Monitoring was not carried out

Table 3.74 Volume-weighted annual mean pH

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	<i>KH 11052</i>					5.32	6.32	6.72	6.69	5.84
China	Guanyinqiao	<i>CN 11001</i>	4.33	4.79	4.60	4.49	4.59	4.95	4.86	4.65	
	Nanshan	<i>CN 11002</i>	4.22								
	Haifu	<i>CN 11058</i>									4.20
	Jinyunshan	<i>CN 11003</i>		4.18	4.36	4.30	4.59	4.62	4.69	4.52	4.36
	Shizhan	<i>CN 11004</i>	5.68	6.38	6.24	6.00	6.30	5.41	5.56	5.52	6.40
	Weishuiyuan	<i>CN 11005</i>	6.42	6.32	6.03	6.11	5.98	5.15	5.84		
	Jiwozi	<i>CN 11007</i>	5.42	6.24	6.00	6.05	6.11	6.20	5.87	6.85	6.94
	Hongwen	<i>CN 11008</i>	4.72	4.53	4.79	4.46	4.71	4.70	4.83	4.79	4.59
	Xiaoping	<i>CN 11009</i>	4.91	4.90	4.47	4.38	4.61	4.78	4.78	4.60	4.55
	Xiang Zhou	<i>CN 11010</i>	5.15	4.94	5.11	5.10	4.78	4.56	4.87	4.63	4.93
Zhuxian Cavern	<i>CN 11011</i>	4.64	4.78	4.89	5.10	4.63	4.61	4.82	***	4.88	
Indonesia	Jakarta	<i>ID 11012</i>	5.18	5.42	4.77	5.16	4.69	4.31	4.38	4.56	4.65
	Serpong	<i>ID 11014</i>	***	4.63	4.65	4.62	4.68	4.59	4.60	4.59	4.62
	Kototabang	<i>ID 11013</i>	4.51	5.07	5.31	5.30	4.73	4.68	4.53	5.27	5.22
	Bandung	<i>ID 11015</i>	***	4.99	4.46	5.00	5.03	5.03	5.15	4.93	5.17
	Maros	<i>ID 11059</i>									5.63
Japan	Rishiri	<i>JP 11016</i>	4.80	4.77	4.82	4.88	4.84	4.74	4.67	4.58	4.91
	Ochiishi	<i>JP 11050</i>				4.91	4.68	4.84	4.86	4.78	4.87
	Tappi	<i>JP 11017</i>	4.72	4.64	4.68	4.57	4.59	4.60	4.58	4.62	4.59
	Sado-seki	<i>JP 11019</i>	4.57	4.63	4.64	4.67	4.70	4.56	4.70	4.50	4.55
	Happo	<i>JP 11021</i>	4.73	4.84	4.93	4.91	4.86	4.80	4.97	4.79	4.83
	Ijira	<i>JP 11022</i>	4.52	4.43	4.52	4.41	4.65	4.51	4.51	4.53	4.45
	Okii	<i>JP 11023</i>	4.64	4.77	4.73	4.76	4.80	4.56	4.73	4.64	4.60
	Banryu	<i>JP 11024</i>	4.64	4.66	4.69	4.63	4.70	4.49	4.69	4.49	4.53
	Yusuhara	<i>JP 11025</i>	4.71	4.83	4.76	4.73	4.97	4.64	4.84	4.81	4.67
	Hedo	<i>JP 11027</i>	5.13	4.96	4.95	4.90	4.78	4.83	4.99	4.99	5.00
	Ogasawara	<i>JP 11018</i>	5.23	5.09	5.09	5.04	5.13	4.81	4.99	5.03	5.00
Tokyo	<i>JP 11057</i>								4.79	4.60	
Lao PDR	Vientian	<i>LA 11051</i>				6.51	5.65	6.32	6.49	5.67	6.01
Malaysia	Petaling Jaya	<i>MY 11029</i>	4.35	4.25	4.23	4.28	4.33	4.37	4.42	4.56	4.43
	Tanah Rata	<i>MY 11030</i>	4.79	4.90	4.97	4.90	4.86	4.84	4.95	4.95	5.10
	Danum Valley	<i>MY 11053</i>						4.98	5.05	5.10	5.22
	Kuching	<i>MY 11060</i>									5.26
Mongolia	Ulaanbaatar	<i>MN 11031</i>	6.26	6.19	6.38	5.72	6.46	5.99	6.45	6.26	6.28
	Terelj	<i>MN 11032</i>	5.52	6.04	5.75	5.40	5.78	5.26	5.16	5.22	5.43
Myanmar	Yangon	<i>MM 11056</i>								5.57	6.41
Philippines	Metro Manila	<i>PH 11033</i>	5.48	5.41	5.09	4.44	5.18	4.95	5.30	5.27	5.55
	Los Banos	<i>PH 11034</i>	5.44	5.53	5.74	4.49	5.26	5.14	5.61	5.54	4.95
	Mt. Sto. Tomas	<i>PH 11055</i>							6.32	5.53	5.49
Republic of Korea	Kanghwa	<i>KR 11035</i>	5.00	4.99	4.65	4.67	4.57	4.25	4.68	4.62	4.55
	Cheju (Kosan)	<i>KR 11036</i>	4.85	4.89	4.61	4.83	4.74	4.55	4.34	4.51	4.67
	Imsil	<i>KR 11037</i>		5.09	5.69	5.08	4.93	6.00	5.19	5.73	4.88
Russia	Mondy	<i>RU 11038</i>	5.26	5.50	5.39	5.35	5.34	5.36	5.39	5.52	5.17
	Listvyanka	<i>RU 11039</i>	5.07	4.96	4.88	5.01	4.92	4.83	4.64	4.67	4.63
	Irkutsk	<i>RU 11040</i>	5.11	5.28	5.02	5.37	4.91	5.12	5.15	4.93	4.77
	Primorskaya	<i>RU 11041</i>			5.20	4.88	4.84	5.06	4.83	4.84	4.79
Thailand	Bangkok	<i>TH 11042</i>	4.95	4.97	5.10	4.53	5.19	4.89	5.16	5.05	5.28
	Samutprakarn	<i>TH 11043</i>	4.83				5.47	5.47	5.87	5.61	5.29
	Patumthani	<i>TH 11044</i>	5.25	5.13	5.33	4.86	4.87	4.89	4.89	4.81	5.03
	Khanchanaburi	<i>TH 11045</i>	5.56	5.26	5.64	5.46	6.07	5.54	5.75	5.78	5.66
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		5.71	5.72	5.61	5.59	5.23	5.70	5.95	5.98
	Nakhon Ratchasima	<i>TH 11054</i>							5.12	5.08	5.03
Viet Nam	Hanoi	<i>VN 11047</i>	5.45	5.83	5.55	5.81	5.65	6.15	5.73	5.58	5.84
	Hoa Binh	<i>VN 11048</i>	5.11	5.04	5.19	5.38	5.60	5.69	5.59	5.06	5.49

[***]: No data or not measured

Data in hatched column: Rejected annual value by the criteria of EANET (%PCL<80% or %TP<80%)

Black column: Monitoring was not carried out

Table 3.75 Volume-weighted annual mean EC

unit: mS/m

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	<i>KH 11052</i>					1.17	0.81	1.17	1.37	1.53
China	Guanyinqiao	<i>CN 11001</i>	5.61	7.00	4.36	4.89	5.82	6.70	6.70	5.01	
	Nanshan	<i>CN 11002</i>	5.20								
	Haifu	<i>CN 11058</i>									6.46
	Jinyunshan	<i>CN 11003</i>		6.23	3.69	4.19	4.35	4.23	5.45	3.76	5.13
	Shizhan	<i>CN 11004</i>	11.4	19.5	16.1	7.50	6.47	5.18	9.81	7.21	7.96
	Weishuiyuan	<i>CN 11005</i>	15.1	27.7	21.7	7.80	8.55	4.61	13.4		
	Jiwozi	<i>CN 11007</i>	7.71	9.65	4.02	5.19	2.91	5.82	6.95	10.3	8.46
	Hongwen	<i>CN 11008</i>	1.66	3.87	2.64	2.88	3.41	2.63	2.31	2.68	2.15
	Xiaoping	<i>CN 11009</i>	0.88	1.44	1.60	2.15	1.97	1.91	2.19	2.01	2.09
	Xiang Zhou	<i>CN 11010</i>	2.05	1.95	3.20	2.19	2.37	2.41	2.20	1.99	1.84
	Zhuxian Cavern	<i>CN 11011</i>	3.04	2.08	3.63	2.42	3.15	2.49	2.67	***	1.94
Indonesia	Jakarta	<i>ID 11012</i>	5.06	26.4	2.97	4.78	3.69	3.37	1.92	2.23	1.78
	Serpong	<i>ID 11014</i>	***	2.94	1.87	2.26	2.25	2.63	2.10	2.14	2.10
	Kototabang	<i>ID 11013</i>	1.00	0.43	4.94	1.96	1.11	0.84	0.88	0.82	0.56
	Bandung	<i>ID 11015</i>	3.37	2.08	1.68	1.50	1.80	1.75	1.69	1.64	1.58
	Maros	<i>ID 11059</i>									0.62
Japan	Rishiri	<i>JP 11016</i>	6.37	4.51	4.23	3.80	4.72	4.46	3.04	3.72	4.86
	Ochiishi	<i>JP 11050</i>				3.45	6.72	4.01	5.00	3.69	3.33
	Tappi	<i>JP 11017</i>	3.69	3.52	3.89	3.74	4.57	4.18	5.98	4.92	4.32
	Sado-seki	<i>JP 11019</i>	4.76	5.64	4.99	2.65	3.10	5.05	3.81	4.92	4.28
	Happo	<i>JP 11021</i>	1.22	0.96	0.67	0.69	0.91	1.10	0.84	1.08	1.03
	Ijira	<i>JP 11022</i>	2.11	2.44	2.18	2.12	1.62	2.11	2.15	2.05	2.18
	Oki	<i>JP 11023</i>	7.28	5.90	6.59	3.82	5.86	11.3	4.77	5.91	6.60
	Banryu	<i>JP 11024</i>	1.82	2.52	2.56	2.56	3.02	3.50	2.54	3.36	3.10
	Yusuhara	<i>JP 11025</i>	1.17	0.98	1.42	1.16	1.03	1.59	1.08	1.06	1.14
	Hedo	<i>JP 11027</i>	7.21	2.95	8.85	7.10	14.2	7.10	3.58	2.54	2.61
	Ogasawara	<i>JP 11018</i>	2.59	2.20	3.95	4.31	2.29	2.33	2.14	2.59	1.86
	Tokyo	<i>JP 11057</i>								1.80	1.96
	Lao PDR	Vientian	<i>LA 11051</i>				2.07	2.65	1.01	0.76	0.40
Malaysia	Petaling Jaya	<i>MY 11029</i>	2.08	2.13	2.81	2.32	2.26	2.12	1.81	1.40	1.98
	Tanah Rata	<i>MY 11030</i>	0.73	0.54	0.59	0.61	0.76	0.68	0.51	0.51	0.47
	Danum Valley	<i>MY 11053</i>						0.56	0.46	0.35	0.46
	Kuching	<i>MY 11060</i>									0.44
Mongolia	Ulaanbaatar	<i>MN 11031</i>	1.79	1.91	2.20	1.56	1.68	1.87	1.92	2.18	1.92
	Terelj	<i>MN 11032</i>	1.28	0.93	1.93	1.05	1.12	1.18	1.95	2.02	1.34
Myanmar	Yangon	<i>MM 11056</i>								0.60	0.95
Philippines	Metro Manila	<i>PH 11033</i>	2.20	6.49	1.85	1.36	1.48	1.66	1.66	1.40	2.88
	Los Banos	<i>PH 11034</i>	1.13	2.08	1.22	1.99	0.80	1.01	1.08	0.86	1.76
	Mt. Sto. Tomas	<i>PH 11055</i>							0.22	1.03	0.35
Republic of Korea	Kanghwa	<i>KR 11035</i>	2.50	1.98	2.68	2.54	3.25	4.14	2.75	3.49	2.72
	Cheju (Kosan)	<i>KR 11036</i>	3.37	2.56	3.03	2.22	2.45	3.43	3.64	3.43	3.47
	Imsil	<i>KR 11037</i>		1.31	1.80	1.42	1.42	1.72	2.51	1.58	1.75
Russia	Mondy	<i>RU 11038</i>	0.58	0.68	0.96	0.59	0.54	0.49	0.43	0.80	0.73
	Listvyanka	<i>RU 11039</i>	1.04	0.95	1.39	1.36	1.30	1.19	1.51	1.38	1.58
	Irkutsk	<i>RU 11040</i>	1.71	1.79	2.10	1.67	1.80	1.66	1.76	2.02	2.48
	Primorskaya	<i>RU 11041</i>			1.77	2.66	2.20	2.03	2.47	1.90	2.58
Thailand	Bangkok	<i>TH 11042</i>	1.64	1.50	1.32	1.67	1.25	1.66	1.94	1.41	1.54
	Samutprakarn	<i>TH 11043</i>	1.52				1.01	1.30	1.56	1.34	1.66
	Patumthani	<i>TH 11044</i>	1.48	1.80	1.07	1.24	1.47	1.31	1.42	1.50	1.19
	Khanchanaburi	<i>TH 11045</i>	0.52	0.56	0.51	0.35	0.41	0.32	0.46	0.29	0.50
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		0.88	0.48	0.46	0.49	0.81	0.59	0.63	0.62
	Nakhon Ratchasima	<i>TH 11054</i>							0.92	0.78	0.83
Viet Nam	Hanoi	<i>VN 11047</i>	1.55	0.92	1.52	1.70	1.85	2.75	2.18	1.57	1.11
	Hoa Binh	<i>VN 11048</i>	1.15	1.04	1.06	1.12	1.48	1.15	1.22	1.08	0.92

[***]: No data or not measured

Data in hatched column: Rejected annual value by the criteria of EANET (%PCL<80% or %TP<80%)

Black column: Monitoring was not carried out

Table 3.76 Annual SO₄²⁻ depositionunit: mmol m⁻²y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	KH 11052					***	7.43	5.04	30.9	21.3
China	Guanyinqiao	CN 11001	164	154	165	108	229	200	149	169	
	Nanshan	CN 11002	164								
	Haifu	CN 11058									145
	Jinyunshan	CN 11003		87.7	126	103	166	149	169	149	146
	Shizhan	CN 11004	199	171	297	258	104	63.9	132	96.7	73.6
	Weishuiyuan	CN 11005	241	105	234	186	94.2	47.1	104		
	Jiwozi	CN 11007	117	68.0	43.2	55.3	56.3	42.8	30.0	18.2	63.6
	Hongwen	CN 11008	30.7	16.7	67.0	48.0	73.6	80.4	61.1	102	29.9
	Xiaoping	CN 11009	22.8	49.1	36.3	41.7	53.3	59.0	39.7	29.2	58.3
	Xiang Zhou	CN 11010	45.5	31.2	48.3	35.3	25.0	28.0	44.6	31.2	46.5
	Zhuxian Cavern	CN 11011	85.4	49.5	50.6	32.4	34.3	31.3	17.1	***	49.6
Indonesia	Jakarta	ID 11012	92.7	77.5	60.5	108	71.4	85.6	38.7	60.6	38.9
	Serpong	ID 11014	***	61.4	64.3	49.5	41.0	27.5	45.2	61.5	65.9
	Kototabang	ID 11013	8.65	5.66	13.4	28.7	11.0	12.1	9.55	19.4	7.21
	Bandung	ID 11015	60.2	87.8	70.4	32.8	24.8	61.7	35.1	52.0	65.4
	Maros	ID 11059									16.3
Japan	Rishiri	JP 11016	30.0	19.1	26.1	16.6	27.0	26.8	29.6	24.9	24.3
	Ochiishi	JP 11050				14.9	22.3	18.6	27.6	18.4	13.7
	Tappi	JP 11017	22.9	24.7	30.2	25.1	38.6	36.8	34.5	31.2	23.3
	Sado-seki	JP 11019	36.8	39.8	40.4	18.6	27.2	39.1	35.7	40.6	31.6
	Happo	JP 11021	29.2	27.4	19.8	18.5	28.2	35.8	28.4	28.4	18.0
	Ijira	JP 11022	53.3	49.1	52.2	56.7	48.0	48.5	58.3	43.0	41.0
	Oki	JP 11023	49.0	42.1	55.4	34.3	41.3	73.2	41.1	42.1	39.5
	Banryu	JP 11024	24.4	33.9	24.8	30.5	34.4	34.6	43.1	35.5	32.7
	Yusuhara	JP 11025	31.0	19.0	26.2	26.5	26.7	28.0	31.9	22.5	22.4
	Hedo	JP 11027	93.6	33.9	75.0	49.0	137	64.1	35.8	38.8	27.8
	Ogasawara	JP 11018	22.6	20.7	24.1	25.2	12.5	26.9	16.2	19.9	15.0
Tokyo	JP 11057								18.4	36.5	
Lao PDR	Vientian	LA 11051				***	***	***	2.45	6.54	8.43
Malaysia	Petaling Jaya	MY 11029	80.4	68.4	63.1	63.9	54.5	66.4	82.5	41.8	65.6
	Tanah Rata	MY 11030	12.9	9.79	12.8	11.4	9.74	16.1	12.3	10.4	12.9
	Danum Valley	MY 11053						5.53	10.2	6.85	7.46
	Kuching	MY 11060									17.8
Mongolia	Ulaanbaatar	MN 11031	4.78	4.17	4.41	5.80	1.84	4.01	4.78	4.67	4.33
	Terelj	MN 11032	3.41	0.86	3.72	2.57	2.75	4.29	5.10	4.63	3.40
Myanmar	Yangon	MM 11056								***	***
Philippines	Metro Manila	PH 11033	94.4	85.5	78.2	37.6	44.0	57.1	47.4	78.1	59.2
	Los Banos	PH 11034	27.7	28.4	27.3	11.4	14.7	16.2	23.9	26.0	34.2
	Mt. Sto. Tomas	PH 11055						0.59		19.4	17.6
Republic of Korea	Kanghwa	KR 11035	35.3	28.5	28.4	41.1	39.3	37.9	40.3	36.4	43.2
	Cheju (Kosan)	KR 11036	24.5	23.0	28.5	29.3	26.8	24.0	31.6	47.1	22.1
	Imsil	KR 11037		21.3	22.7	30.6	19.9	28.4	19.0	38.8	17.9
Russia	Mondy	RU 11038	2.19	3.51	2.20	3.48	2.46	1.54	1.93	3.26	1.47
	Listvyanka	RU 11039	6.79	6.60	6.56	10.3	10.6	7.80	5.90	6.99	8.33
	Irkutsk	RU 11040	16.1	13.9	10.3	12.0	14.7	12.3	9.28	16.0	20.3
	Primorskaya	RU 11041			24.2	13.9	25.7	28.2	28.6	30.4	22.5
Thailand	Bangkok	TH 11042	24.8	21.3	24.2	25.6	19.8	39.1	35.5	27.2	32.0
	Samutprakarn	TH 11043	25.0				20.7	31.1	29.4	27.7	27.2
	Patumthani	TH 11044	18.7	23.2	14.2	20.5	17.1	16.7	21.6	16.6	17.8
	Khanchanaburi	TH 11045	3.21	7.91	12.4	5.78	4.71	5.72	10.2	4.20	7.41
	Chiang Mai (Mae Hia)	TH 11046		3.02	6.57	3.34	7.95	8.43	6.44	5.62	6.38
	Nakhon Ratchasima	TH 11054							9.80	8.93	12.7
Viet Nam	Hanoi	VN 11047	37.9	31.5	47.8	47.7	58.3	90.6	57.7	55.8	45.8
	Hoa Binh	VN 11048	30.8	32.6	30.5	38.0	53.9	40.6	38.5	33.1	26.9

[***]: No data or not measured

Data in hatched column: Rejected annual value by the criteria of EANET
(%PCL<80% or %TP<80%)

Black column: Monitoring was not carried out

Table 3.77 Annual nss-SO₄²⁻ deposition

unit: mmol m⁻²y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	<i>KH 11052</i>					***	***	4.82	30.2	15.9
China	Guanyinqiao	<i>CN 11001</i>	163	154	164	108	228	200	149	169	
	Nanshan	<i>CN 11002</i>	164								
	Haifu	<i>CN 11058</i>									145
	Jinyunshan	<i>CN 11003</i>		87.3	125	102	165	148	168	148	145
	Shizhan	<i>CN 11004</i>	198	167	291	253	103	63.4	131	96.2	73.0
	Weishuiyuan	<i>CN 11005</i>	239	104	231	177	93.5	46.6	103		
	Jiwozi	<i>CN 11007</i>	116	66.0	41.7	51.6	54.7	41.5	29.1	17.7	61.5
	Hongwen	<i>CN 11008</i>	28.5	16.5	61.8	45.3	70.3	75.1	57.7	100	28.6
	Xiaoping	<i>CN 11009</i>	22.0	47.2	34.1	39.0	51.8	57.3	37.9	28.4	55.6
	Xiang Zhou	<i>CN 11010</i>	40.3	29.1	44.0	31.6	22.4	25.3	41.3	29.5	40.6
	Zhuxian Cavern	<i>CN 11011</i>	82.4	46.2	46.3	28.8	30.4	27.7	15.9	***	44.0
Indonesia	Jakarta	<i>ID 11012</i>	87.7	74.6	57.3	105	68.2	82.7	37.6	58.5	37.9
	Serpong	<i>ID 11014</i>	***	59.1	60.5	48.0	39.3	26.7	44.4	60.1	64.5
	Kototabang	<i>ID 11013</i>	***	5.33	12.7	26.9	9.66	11.3	9.08	17.9	6.47
	Bandung	<i>ID 11015</i>	***	84.6	69.1	32.1	24.2	60.5	33.7	51.2	64.2
	Maros	<i>ID 11059</i>									13.5
Japan	Rishiri	<i>JP 11016</i>	14.9	11.2	14.9	9.1	13.9	15.0	21.0	17.4	12.0
	Ochiishi	<i>JP 11050</i>				5.84	8.33	8.28	11.3	8.73	6.14
	Tappi	<i>JP 11017</i>	13.5	16.0	17.1	15.4	21.0	20.6	17.8	16.6	13.5
	Sado-seki	<i>JP 11019</i>	20.2	18.9	18.8	12.3	14.7	19.2	18.7	24.7	18.7
	Happo	<i>JP 11021</i>	28.1	26.6	19.3	17.8	27.1	34.5	27.8	28.0	17.6
	Ijira	<i>JP 11022</i>	50.1	45.1	47.6	54.3	43.6	46.3	56.5	40.1	39.0
	Oki	<i>JP 11023</i>	20.4	18.4	21.2	16.4	16.8	25.3	22.0	22.8	18.2
	Banryu	<i>JP 11024</i>	21.7	25.5	18.6	22.0	22.5	27.5	35.3	29.5	27.2
	Yusuhara	<i>JP 11025</i>	28.4	17.6	22.1	24.0	20.9	24.5	29.7	20.6	21.2
	Hedo	<i>JP 11027</i>	17.1	13.8	15.1	15.7	43.4	23.1	14.7	17.8	13.2
	Ogasawara	<i>JP 11018</i>	6.22	9.23	5.25	5.71	4.02	15.0	6.58	7.6	6.38
	Tokyo	<i>JP 11057</i>								16.2	34.3
Lao PDR	Vientian	<i>LA 11051</i>				***	***	***	2.15	6.34	8.14
Malaysia	Petaling Jaya	<i>MY 11029</i>	79.3	67.7	62.3	62.9	53.5	65.3	81.4	41.2	64.6
	Tanah Rata	<i>MY 11030</i>	12.5	9.49	12.6	11.1	9.48	14.9	12.1	10.2	12.6
	Danum Valley	<i>MY 11053</i>						5.19	9.23	6.11	6.89
	Kuching	<i>MY 11060</i>									16.4
Mongolia	Ulaanbaatar	<i>MN 11031</i>	4.69	4.08	4.34	5.73	1.81	3.95	4.68	4.63	4.22
	Terelj	<i>MN 11032</i>	3.33	0.78	3.51	2.49	2.67	4.12	4.93	4.53	3.26
Myanmar	Yangon	<i>MM 11056</i>								***	***
Philippines	Metro Manila	<i>PH 11033</i>	87.0	52.0	75.6	35.2	41.9	54.8	44.6	73.9	55.7
	Los Banos	<i>PH 11034</i>	22.4	23.9	25.1	10.0	13.4	14.5	21.0	22.7	32.0
	Mt. Sto. Tomas	<i>PH 11055</i>							0.52	18.2	16.1
Republic of Korea	Kanghwa	<i>KR 11035</i>	31.6	25.6	26.0	38.6	37.6	36.3	38.5	34.0	39.5
	Cheju (Kosan)	<i>KR 11036</i>	14.8	18.0	24.9	25.6	22.9	20.4	25.9	39.5	15.3
	Imsil	<i>KR 11037</i>		20.1	20.4	28.0	18.6	26.8	17.6	37.5	16.3
Russia	Mondy	<i>RU 11038</i>	2.16	3.46	2.17	3.42	2.43	1.51	1.89	3.20	1.45
	Listvyanka	<i>RU 11039</i>	6.67	6.50	6.47	10.1	10.4	7.72	5.85	6.93	8.27
	Irkutsk	<i>RU 11040</i>	15.8	13.6	10.2	11.8	14.5	12.1	9.07	15.8	20.0
	Primorskaya	<i>RU 11041</i>			23.0	13.3	24.8	27.2	28.0	29.2	21.7
Thailand	Bangkok	<i>TH 11042</i>	24.4	20.7	22.9	24.9	19.1	37.6	34.6	26.5	31.0
	Samutprakarn	<i>TH 11043</i>	24.4				19.5	29.1	28.0	26.3	25.6
	Patumthani	<i>TH 11044</i>	18.1	22.5	13.7	20.1	16.6	16.2	20.8	16.1	17.2
	Khanchanaburi	<i>TH 11045</i>	2.72	6.89	11.2	4.81	3.96	4.89	9.24	3.48	6.33
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		2.78	5.78	3.21	7.74	8.36	6.16	5.46	6.18
	Nakhon Ratchasima	<i>TH 11054</i>							9.48	8.56	12.2
Viet Nam	Hanoi	<i>VN 11047</i>	36.5	30.0	47.3	46.9	57.5	88.7	56.7	55.0	44.5
	Hoa Binh	<i>VN 11048</i>	29.4	31.3	30.3	37.8	53.5	39.6	38.1	32.7	26.5

[***]: No data or not measured

Data in hatched column: Rejected annual value by the criteria of EANET (%PCL<80% or %TP<80%)

Black column: Monitoring was not carried out

Table 3.78 Annual NO₃⁻ deposition

unit: mmol m⁻²y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	KH 11052					3.22	***	8.59	11.3	17.2
China	Guanyinqiao	CN 11001	45.5	39.7	49.7	38.4	60.9	44.5	51.1	63.3	
	Nanshan	CN 11002	52.4								
	Haifu	CN 11058									65.6
	Jinyunshan	CN 11003		28.6	47.3	42.5	55.9	50.2	55.2	51.8	56.4
	Shizhan	CN 11004	48.6	55.8	52.2	86.6	37.1	6.16	39.4	40.0	15.5
	Weishuiyuan	CN 11005	42.9	14.5	39.0	70.5	32.4	5.01	32.8		
	Jiwozi	CN 11007	24.1	29.3	12.7	26.2	26.9	3.37	11.9	6.68	44.9
	Hongwen	CN 11008	28.4	11.2	48.2	43.7	53.1	63.4	47.7	50.6	21.6
	Xiaoping	CN 11009	22.8	50.1	32.0	39.9	38.5	52.9	37.7	27.3	49.2
	Xiang Zhou	CN 11010	31.8	28.0	30.9	36.0	29.6	20.3	33.3	23.9	34.7
	Zhuxian Cavern	CN 11011	59.6	57.1	32.9	20.2	31.9	22.8	11.7	***	33.9
Indonesia	Jakarta	ID 11012	27.8	66.4	44.3	94.5	114	115	30.4	67.4	24.1
	Serpong	ID 11014	***	81.4	81.6	66.1	58.0	32.5	45.4	61.3	71.8
	Kototabang	ID 11013	14.4	3.32	10.1	154	9.94	3.46	1.74	9.88	6.93
	Bandung	ID 11015	30.7	70.0	66.7	32.7	25.2	33.5	30.3	42.4	48.4
	Maros	ID 11059									10.7
Japan	Rishiri	JP 11016	13.9	11.1	12.9	8.65	11.0	12.1	18.2	13.8	12.1
	Ochiishi	JP 11050				6.22	8.78	7.65	11.3	8.29	6.16
	Tappi	JP 11017	13.5	16.5	22.5	19.4	24.0	22.5	21.7	22.8	18.5
	Sado-seki	JP 11019	19.5	21.6	21.4	15.7	17.3	21.3	23.9	30.0	24.4
	Happo	JP 11021	24.3	20.8	18.2	16.2	24.7	28.6	22.7	22.9	18.2
	Ijira	JP 11022	64.8	48.5	57.8	64.5	52.6	61.9	68.5	49.4	54.3
	Oki	JP 11023	22.4	19.5	23.7	20.7	24.0	28.7	25.4	27.6	21.5
	Banryu	JP 11024	21.7	31.1	25.0	27.9	27.0	32.8	38.3	37.1	31.2
	Yusuhara	JP 11025	19.7	14.2	19.8	19.7	20.9	21.8	23.9	17.1	19.7
	Hedo	JP 11027	16.7	14.0	19.3	13.2	23.8	19.6	15.1	17.3	13.5
	Ogasawara	JP 11018	4.73	6.67	3.61	6.55	4.30	6.58	7.57	7.64	6.27
	Tokyo	JP 11057								21.0	45.5
	Lao PDR	Vientian	LA 11051				***	***	***	4.92	9.65
Malaysia	Petaling Jaya	MY 11029	92.9	73.2	97.9	100	89.4	102	120	80.5	135
	Tanah Rata	MY 11030	10.4	8.90	16.7	14.1	11.1	17.4	14.9	12.4	17.8
	Danum Valley	MY 11053						3.14	4.24	2.02	4.11
	Kuching	MY 11060									21.3
Mongolia	Ulaanbaatar	MN 11031	3.91	3.43	4.23	4.62	1.32	2.83	3.50	3.27	3.12
	Terelj	MN 11032	3.65	0.81	4.45	3.87	3.34	2.89	3.32	3.39	3.77
Myanmar	Yangon	MM 11056								***	***
Philippines	Metro Manila	PH 11033	48.9	42.5	52.3	28.8	33.4	51.1	33.1	49.4	50.2
	Los Banos	PH 11034	14.3	25.3	14.0	7.84	10.6	16.2	18.1	19.4	15.1
	Mt. Sto. Tomas	PH 11055							0.80	18.5	19.9
Republic of Korea	Kanghwa	KR 11035	47.4	32.6	27.0	42.9	36.1	36.5	36.1	34.5	48.0
	Cheju (Kosan)	KR 11036	16.2	20.5	24.4	29.7	27.9	19.2	28.8	18.7	22.3
	Imsil	KR 11037		20.2	31.8	31.7	24.8	32.9	19.6	24.4	19.3
Russia	Mondy	RU 11038	3.04	3.38	2.75	2.78	2.44	1.44	2.09	2.99	1.54
	Listvyanka	RU 11039	8.25	7.26	8.99	16.1	10.9	5.34	4.54	8.33	6.02
	Irkutsk	RU 11040	11.2	8.61	6.59	8.15	9.48	7.25	5.89	8.76	9.02
	Primorskaya	RU 11041			8.51	4.97	14.8	15.9	18.2	18.9	18.3
Thailand	Bangkok	TH 11042	24.8	21.0	32.0	31.9	19.3	46.6	52.4	44.1	55.4
	Samutprakarn	TH 11043	15.1				12.3	29.1	20.0	31.0	30.2
	Patumthani	TH 11044	17.8	26.5	17.6	28.4	23.4	24.8	35.4	31.4	35.9
	Khanchanaburi	TH 11045	5.06	10.2	13.3	7.96	6.65	5.11	15.5	5.01	9.85
	Chiang Mai (Mae Hia)	TH 11046		4.47	9.78	5.27	7.04	12.0	11.2	7.47	11.7
	Nakhon Ratchasima	TH 11054							13.5	15.7	19.8
Viet Nam	Hanoi	VN 11047	20.2	11.4	21.4	39.4	39.7	54.3	30.6	25.8	22.1
	Hoa Binh	VN 11048	18.3	19.5	32.8	22.6	36.4	29.5	25.0	20.4	20.2

[***]: No data or not measured

Data in hatched column: Rejected annual value by the criteria of EANET (%PCL<80% or %TP<80%)

Black column: Monitoring was not carried out

Table 3.79 Annual CF deposition

unit: mmol m⁻²y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	<i>KH 11052</i>					***	8.12	5.88	17.4	15.9
China	Guanyinqiao	<i>CN 11001</i>	25.9	22.4	22.5	16.0	20.3	19.7	16.2	17.9	
	Nanshan	<i>CN 11002</i>	19.7								
	Haifu	<i>CN 11058</i>									13.9
	Jinyunshan	<i>CN 11003</i>		40.3	20.8	12.6	19.5	22.6	16.2	14.3	18.6
	Shizhan	<i>CN 11004</i>	27.4	29.6	122	106	21.7	17.5	17.3	21.0	12.9
	Weishuiyuan	<i>CN 11005</i>	41.0	19.3	66.0	129	18.3	16.0	16.1		
	Jiwozi	<i>CN 11007</i>	26.8	20.7	26.2	42.8	15.1	13.9	7.77	4.41	14.8
	Hongwen	<i>CN 11008</i>	48.6	10.6	67.3	66.7	64.1	112	98.0	52.6	29.5
	Xiaoping	<i>CN 11009</i>	32.4	77.3	19.9	41.6	32.5	34.9	52.4	15.2	37.1
	Xiang Zhou	<i>CN 11010</i>	101	75.2	119	81.8	48.8	77.6	68.1	44.5	98.1
	Zhuxian Cavern	<i>CN 11011</i>	70.2	71.2	94.1	70.5	75.1	55.9	25.9	***	105
Indonesia	Jakarta	<i>ID 11012</i>	33.9	48.2	44.2	84.4	57.4	88.4	23.0	40.7	19.6
	Serpong	<i>ID 11014</i>	***	51.8	57.6	58.2	34.8	16.3	17.4	28.8	40.3
	Kototabang	<i>ID 11013</i>	15.8	7.97	30.1	87.0	24.8	15.6	9.74	38.2	9.62
	Bandung	<i>ID 11015</i>	93.7	65.1	51.5	20.9	15.6	25.5	18.6	14.8	19.4
	Maros	<i>ID 11059</i>									60.9
Japan	Rishiri	<i>JP 11016</i>	286	145	207	142	242	224	163	142	222
	Ochiishi	<i>JP 11050</i>				178	266	191	316	189	142
	Tappi	<i>JP 11017</i>	187	169	253	178	341	310	314	276	186
	Sado-seki	<i>JP 11019</i>	292	367	439	121	236	385	324	298	241
	Happo	<i>JP 11021</i>	23.4	20.7	13.0	17.9	27.0	26.1	15.6	10.1	9.21
	Ijira	<i>JP 11022</i>	61.8	73.0	88.2	56.6	94.2	43.3	40.8	56.1	42.5
	Oki	<i>JP 11023</i>	543	448	658	321	453	914	353	362	412
	Banryu	<i>JP 11024</i>	48.5	154.6	115.9	162	232	142	149	114	105
	Yusuhara	<i>JP 11025</i>	52.4	25.6	74.6	45.4	112	69.4	44.4	38.5	22.0
	Hedo	<i>JP 11027</i>	1500	373	1200	628	1750	869	404	394	270
	Ogasawara	<i>JP 11018</i>	325	222	370	400	162	235	188	241	165
	Tokyo	<i>JP 11057</i>								44.4	44.0
	Lao PDR	Vientian	<i>LA 11051</i>				***	***	***	3.38	10.4
Malaysia	Petaling Jaya	<i>MY 11029</i>	29.1	23.2	19.5	28.1	22.2	25.0	27.8	17.2	28.1
	Tanah Rata	<i>MY 11030</i>	21.3	7.87	6.29	7.19	5.86	7.61	5.85	5.05	5.78
	Danum Valley	<i>MY 11053</i>						7.54	21.5	14.6	18.3
	Kuching	<i>MY 11060</i>									27.2
Mongolia	Ulaanbaatar	<i>MN 11031</i>	1.76	1.60	1.37	2.27	0.67	1.17	1.46	1.18	1.56
	Terelj	<i>MN 11032</i>	1.86	0.77	2.80	2.06	1.85	2.44	1.99	1.91	1.90
Myanmar	Yangon	<i>MM 11056</i>								***	***
Philippines	Metro Manila	<i>PH 11033</i>	103	264	55.9	53.5	52.0	33.7	62.3	97.8	68.4
	Los Banos	<i>PH 11034</i>	87.1	62.7	41.9	26.1	24.9	29.7	46.7	75.5	35.5
	Mt. Sto. Tomas	<i>PH 11055</i>							0.68	24.9	26.6
Republic of Korea	Kanghwa	<i>KR 11035</i>	61.4	48.6	35.5	96.4	48.9	45.5	39.2	50.9	70.5
	Cheju (Kosan)	<i>KR 11036</i>	222	125	85.3	88.4	88.9	73.1	116	130	114
	Imsil	<i>KR 11037</i>		37.3	36.7	71.5	32.2	54.9	54.9	30.1	31.2
Russia	Mondy	<i>RU 11038</i>	0.79	0.46	1.81	1.25	0.99	1.69	1.83	1.38	0.87
	Listvyanka	<i>RU 11039</i>	2.22	1.07	2.45	2.23	2.72	2.43	1.09	1.75	2.00
	Irkutsk	<i>RU 11040</i>	6.19	5.72	5.45	8.07	4.71	5.47	4.48	6.30	8.39
	Primorskaya	<i>RU 11041</i>			28.3	11.5	14.7	16.0	11.2	18.3	14.2
Thailand	Bangkok	<i>TH 11042</i>	14.4	11.1	18.0	12.0	13.7	24.7	17.1	13.0	20.1
	Samutprakarn	<i>TH 11043</i>	12.6				16.2	30.9	17.7	21.0	22.1
	Patumthani	<i>TH 11044</i>	10.0	10.5	11.0	10.6	13.9	9.04	11.0	9.2	11.0
	Khanchanaburi	<i>TH 11045</i>	15.5	15.1	30.9	14.3	13.9	15.9	15.9	11.3	20.1
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		4.91	14.8	3.81	4.40	6.01	5.29	5.48	5.90
	Nakhon Ratchasima	<i>TH 11054</i>							6.56	7.08	10.2
Viet Nam	Hanoi	<i>VN 11047</i>	30.5	61.2	13.5	33.7	23.2	47.9	19.2	19.5	19.8
	Hoa Binh	<i>VN 11048</i>	38.4	49.2	11.3	11.7	21.6	30.9	10.0	12.3	8.35

[***]: No data or not measured

Data in hatched column: Rejected annual value by the criteria of EANET
(%PCL<80% or %TP<80%)

Black column: Monitoring was not carried out

Table 3.80 Annual NH₄⁺ deposition

unit: mmol m⁻²y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	<i>KH 11052</i>					4.51	21.3	17.0	27.0	21.6
China	Guanyinqiao	<i>CN 11001</i>	174	158	173	131	189	169	151	181	
	Nanshan	<i>CN 11002</i>	132								
	Haifu	<i>CN 11058</i>									149
	Jinyunshan	<i>CN 11003</i>		79.1	134	106	160	154	145	124	120
	Shizhan	<i>CN 11004</i>	235	92.8	70.7	183	87.5	39.3	80.7	109	63.3
	Weishuiyuan	<i>CN 11005</i>	190	24.5	74.1	188	70.5	28.2	75.4		
	Jiwozi	<i>CN 11007</i>	165	35.7	10.1	50.5	37.8	13.7	11.4	1.12	13.8
	Hongwen	<i>CN 11008</i>	47.9	19.2	69.3	38.3	48.8	60.2	62.0	51.8	32.8
	Xiaoping	<i>CN 11009</i>	31.0	88.9	67.5	67.5	74.4	94.0	50.5	55.0	65.9
	Xiang Zhou	<i>CN 11010</i>	41.7	49.8	166	58.7	67.9	121	86.6	28.0	55.0
	Zhuxian Cavern	<i>CN 11011</i>	90.7	77.8	76.5	52.5	75.9	27.8	24.3	***	42.9
Indonesia	Jakarta	<i>ID 11012</i>	122	81.9	49.8	33.6	32.8	26.4	25.7	52.6	43.6
	Serpong	<i>ID 11014</i>	***	109	115	96.4	61.9	36.8	64.6	89.2	112
	Kototabang	<i>ID 11013</i>	2.66	2.88	9.21	5.78	25.9	20.7	12.3	50.5	18.7
	Bandung	<i>ID 11015</i>	29.3	98.8	75.9	52.6	32.9	62.6	61.0	94.3	104
	Maros	<i>ID 11059</i>									26.9
Japan	Rishiri	<i>JP 11016</i>	26.2	16.0	19.2	12.9	16.2	18.1	22.6	22.9	19.5
	Ochiishi	<i>JP 11050</i>				5.98	7.64	6.17	15.6	6.79	4.71
	Tappi	<i>JP 11017</i>	10.1	13.8	19.6	18.6	22.9	19.6	18.2	18.7	15.0
	Sado-seki	<i>JP 11019</i>	18.1	19.2	20.7	17.6	15.5	20.9	21.0	29.3	22.2
	Happo	<i>JP 11021</i>	31.0	25.3	20.2	15.7	25.6	32.3	24.7	25.8	16.6
	Ijira	<i>JP 11022</i>	63.8	39.4	60.4	53.6	50.2	52.1	64.5	46.8	40.6
	Oki	<i>JP 11023</i>	23.5	18.4	19.5	14.1	15.3	20.8	17.8	18.3	17.4
	Banryu	<i>JP 11024</i>	18.2	24.6	23.4	21.9	19.5	28.1	29.1	28.4	24.3
	Yusuhara	<i>JP 11025</i>	14.2	10.7	17.8	17.1	19.0	20.6	23.8	17.7	16.5
	Hedo	<i>JP 11027</i>	21.0	9.52	37.6	15.2	30.6	23.6	15.9	20.2	12.0
	Ogasawara	<i>JP 11018</i>	4.62	8.70	7.18	5.07	5.96	7.10	7.27	12.1	5.74
	Tokyo	<i>JP 11057</i>								29.9	55.6
Lao PDR	Vientian	<i>LA 11051</i>				***	***	***	5.47	15.3	13.99
Malaysia	Petaling Jaya	<i>MY 11029</i>	149	179	43.0	37.1	39.4	57.3	93.3	57.7	77.9
	Tanah Rata	<i>MY 11030</i>	129	93.0	11.2	6.92	5.77	8.13	9.84	11.6	12.2
	Danum Valley	<i>MY 11053</i>						2.55	6.15	3.95	29.3
	Kuching	<i>MY 11060</i>									19.7
Mongolia	Ulaanbaatar	<i>MN 11031</i>	10.2	8.28	13.0	14.1	3.86	8.18	10.1	11.0	8.26
	Terelj	<i>MN 11032</i>	9.20	2.70	16.2	9.86	7.37	8.87	11.7	7.19	10.5
Myanmar	Yangon	<i>MM 11056</i>								***	***
Philippines	Metro Manila	<i>PH 11033</i>	143	177	137	52.2	76.6	71.0	109	118	148
	Los Banos	<i>PH 11034</i>	35.9	40.7	58.8	23.3	24.3	24.7	36.2	52.1	37.1
	Mt. Sto. Tomas	<i>PH 11055</i>							0.29	29.4	53.3
Republic of Korea	Kanghwa	<i>KR 11035</i>	42.0	42.7	33.0	90.6	66.4	53.8	57.9	51.5	54.8
	Cheju (Kosan)	<i>KR 11036</i>	21.3	36.0	44.0	54.1	40.4	21.6	29.5	35.9	22.1
	Imsil	<i>KR 11037</i>		54.9	41.9	61.0	34.0	40.5	35.5	53.7	25.5
Russia	Mondy	<i>RU 11038</i>	3.47	7.08	6.89	6.00	4.03	2.79	1.52	10.6	2.03
	Listvyanka	<i>RU 11039</i>	7.29	5.34	9.66	11.3	6.74	7.50	4.82	6.35	7.40
	Irkutsk	<i>RU 11040</i>	17.2	11.7	13.0	19.2	15.1	15.6	8.89	16.2	18.1
	Primorskaya	<i>RU 11041</i>			30.0	12.6	21.0	30.7	31.0	29.2	28.0
Thailand	Bangkok	<i>TH 11042</i>	47.4	42.5	60.9	51.9	45.8	87.1	89.0	91.3	95.5
	Samutprakarn	<i>TH 11043</i>	31.1				43.5	60.8	70.8	88.1	97.8
	Patumthani	<i>TH 11044</i>	36.6	47.9	32.4	48.2	33.2	39.6	53.9	47.5	49.6
	Khanchanaburi	<i>TH 11045</i>	6.03	16.7	24.0	20.3	11.7	10.1	44.1	23.7	19.8
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		17.1	27.3	12.8	18.1	30.1	21.6	17.7	25.6
	Nakhon Ratchasima	<i>TH 11054</i>							27.5	25.4	36.4
Viet Nam	Hanoi	<i>VN 11047</i>	34.5	45.7	78.6	87.4	83.0	174	56.2	80.1	69.4
	Hoa Binh	<i>VN 11048</i>	15.2	27.8	45.9	48.5	75.0	68.5	42.7	41.4	33.8

[***]: No data or not measured

Data in hatched column: Rejected annual value by the criteria of EANET (%PCL<80% or %TP<80%)

Black column: Monitoring was not carried out

Table 3.81 Annual Na⁺ deposition

unit: mmol m⁻²y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	<i>KH 11052</i>					***	***	1.75	11.3	18.8
China	Guanyinqiao	<i>CN 11001</i>	12.8	8.11	8.01	4.85	10.1	8.99	6.66	7.69	
	Nanshan	<i>CN 11002</i>	9.73								
	Haifu	<i>CN 11058</i>									7.06
	Jinyunshan	<i>CN 11003</i>		7.25	9.48	6.15	18.7	22.3	7.95	10.2	12.5
	Shizhan	<i>CN 11004</i>	24.7	59.8	85.7	88.1	11.5	8.18	21.8	8.22	9.41
	Weishuiyuan	<i>CN 11005</i>	30.8	15.1	48.0	147	10.9	9.01	21.1		
	Jiwozi	<i>CN 11007</i>	19.8	33.1	24.2	62.2	25.5	21.6	15.4	8.58	35.5
	Hongwen	<i>CN 11008</i>	36.1	3.20	87.2	45.2	53.7	87.4	65.6	32.4	21.7
	Xiaoping	<i>CN 11009</i>	13.6	31.7	35.6	43.6	25.5	28.3	54.5	13.0	44.9
	Xiang Zhou	<i>CN 11010</i>	85.4	49.0	71.9	67.5	96.6	52.0	54.3	27.9	97.5
	Zhuxian Cavern	<i>CN 11011</i>	55.5	70.7	71.4	63.2	120	64.7	20.0	***	94.1
Indonesia	Jakarta	<i>ID 11012</i>	82.6	48.8	55.6	43.8	54.6	49.4	19.3	34.4	17.1
	Serpong	<i>ID 11014</i>	***	38.2	63.2	24.2	28.7	13.2	12.0	23.7	24.8
	Kototabang	<i>ID 11013</i>	***	5.46	11.3	30.2	23.0	12.5	7.75	24.0	13.2
	Bandung	<i>ID 11015</i>	***	52.7	22.0	11.4	9.66	20.9	24.0	13.1	20.1
	Maros	<i>ID 11059</i>									47.5
Japan	Rishiri	<i>JP 11016</i>	250	130	188	125	217	195	142	126	204
	Ochiishi	<i>JP 11050</i>				155	233	171	277	161	125
	Tappi	<i>JP 11017</i>	156	145	219	162	292	270	278	247	162
	Sado-seki	<i>JP 11019</i>	275	345	384	106	208	332	283	264	219
	Happo	<i>JP 11021</i>	17.2	14.6	8.85	11.8	18.4	21.1	11.4	7.29	6.77
	Ijira	<i>JP 11022</i>	53.5	66.4	75.6	39.4	74.0	34.9	30.7	47.1	34.5
	Oki	<i>JP 11023</i>	479	394	570	296	416	791	315	319	360
	Banryu	<i>JP 11024</i>	45.2	139.9	103.5	142	197	119	130	100	91.6
	Yusuhara	<i>JP 11025</i>	42.6	24.5	67.8	40.7	95.8	58.5	37.5	32.1	18.8
	Hedo	<i>JP 11027</i>	1320	341	1050	599	1550	800	351	349	243
	Ogasawara	<i>JP 11018</i>	277	189	314	351	146	199	163	209	144
	Tokyo	<i>JP 11057</i>									37.3
Lao PDR	Vientian	<i>LA 11051</i>				***	***	***	5.04	3.32	4.86
Malaysia	Petaling Jaya	<i>MY 11029</i>	17.0	11.4	13.5	17.0	17.0	18.9	17.1	10.9	15.8
	Tanah Rata	<i>MY 11030</i>	5.94	5.05	4.56	5.70	4.42	19.2	3.93	4.57	4.73
	Danum Valley	<i>MY 11053</i>						5.59	16.9	12.4	9.65
	Kuching	<i>MY 11060</i>									23.1
Mongolia	Ulaanbaatar	<i>MN 11031</i>	1.55	1.51	1.12	1.14	0.48	1.08	1.58	0.66	0.56
	Terelj	<i>MN 11032</i>	1.34	1.41	4.15	1.40	1.31	2.83	2.68	1.74	1.13
Myanmar	Yangon	<i>MM 11056</i>								***	***
Philippines	Metro Manila	<i>PH 11033</i>	123	470	43.3	40.5	35.3	37.9	46.3	70.8	58.7
	Los Banos	<i>PH 11034</i>	91.7	67.6	35.9	24.6	20.9	28.3	50.5	54.4	36.2
	Mt. Sto. Tomas	<i>PH 11055</i>							1.21	19.2	25.9
Republic of Korea	Kanghwa	<i>KR 11035</i>	62.9	47.5	40.6	40.0	28.5	27.3	31.5	39.1	60.8
	Cheju (Kosan)	<i>KR 11036</i>	161	83.2	59.3	60.3	64.9	59.3	95.8	126	112
	Imsil	<i>KR 11037</i>		20.0	38.3	42.7	21.6	27.0	22.0	20.2	27.3
Russia	Mondy	<i>RU 11038</i>	0.56	0.73	0.39	0.93	0.69	0.44	0.64	1.10	0.38
	Listvyanka	<i>RU 11039</i>	2.02	1.67	1.37	2.76	2.57	1.36	0.87	1.05	0.97
	Irkutsk	<i>RU 11040</i>	4.73	3.88	2.78	3.01	3.68	3.04	3.58	4.75	5.29
	Primorskaya	<i>RU 11041</i>			19.3	10.9	15.6	16.0	10.5	19.6	12.7
Thailand	Bangkok	<i>TH 11042</i>	7.95	9.78	20.94	10.6	12.3	25.6	13.8	11.2	17.3
	Samutprakarn	<i>TH 11043</i>	9.91				20.8	32.2	20.8	22.8	26.8
	Patumthani	<i>TH 11044</i>	10.4	10.9	9.15	7.84	8.72	8.32	12.0	8.0	9.95
	Khanchanaburi	<i>TH 11045</i>	8.55	17.1	18.3	16.7	12.5	13.7	17.3	12.0	18.1
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		4.27	14.2	2.60	3.52	1.31	5.02	2.75	3.35
	Nakhon Ratchasima	<i>TH 11054</i>							5.30	6.17	7.24
Viet Nam	Hanoi	<i>VN 11047</i>	22.8	25.9	8.41	14.2	12.7	31.2	16.6	13.6	21.7
	Hoa Binh	<i>VN 11048</i>	24.1	21.8	3.34	3.98	7.16	17.0	6.94	6.23	6.08

[***]: No data or not measured

Data in hatched column: Rejected annual value by the criteria of EANET (%PCL<80% or %TP<80%)

Black column: Monitoring was not carried out

Table 3.82 Annual K⁺ deposition

unit: mmol m⁻²y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	<i>KH 11052</i>					0.68	***	1.41	5.00	19.0
China	Guanyinqiao	<i>CN 11001</i>	15.3	14.0	15.3	10.9	15.1	13.4	10.6	11.4	
	Nanshan	<i>CN 11002</i>	20.5								
	Haifu	<i>CN 11058</i>									11.6
	Jinyunshan	<i>CN 11003</i>		31.6	16.5	10.6	17.8	16.6	13.6	11.1	11.6
	Shizhan	<i>CN 11004</i>	14.8	15.3	14.1	23.9	5.75	7.85	8.67	10.2	5.11
	Weishuiyuan	<i>CN 11005</i>	15.5	5.19	17.8	26.5	5.25	5.52	10.6		
	Jiwozi	<i>CN 11007</i>	14.8	9.11	5.99	13.0	8.65	10.0	4.88	2.80	12.7
	Hongwen	<i>CN 11008</i>	7.56	3.06	6.73	5.63	7.70	8.65	7.14	5.03	2.00
	Xiaoping	<i>CN 11009</i>	4.40	11.3	8.17	8.39	9.96	8.06	31.7	7.63	20.3
	Xiang Zhou	<i>CN 11010</i>	13.4	8.00	30.4	9.91	10.3	3.13	12.5	11.9	4.65
	Zhuxian Cavern	<i>CN 11011</i>	11.0	15.1	20.8	11.6	28.9	5.95	2.32	***	10.4
Indonesia	Jakarta	<i>ID 11012</i>	***	30.1	17.8	15.0	15.2	12.2	11.9	24.3	6.03
	Serpong	<i>ID 11014</i>	***	11.3	9.89	17.0	8.26	5.09	7.14	5.56	5.24
	Kototabang	<i>ID 11013</i>	***	1.59	9.16	62.6	13.2	9.57	5.69	23.3	8.42
	Bandung	<i>ID 11015</i>	***	32.7	5.19	6.63	2.95	8.15	6.31	4.01	5.38
	Maros	<i>ID 11059</i>									17.5
Japan	Rishiri	<i>JP 11016</i>	7.66	3.71	4.86	3.47	5.68	4.89	4.85	3.65	5.44
	Ochiishi	<i>JP 11050</i>				3.62	5.23	4.34	7.64	3.97	2.78
	Tappi	<i>JP 11017</i>	3.82	3.55	5.41	3.97	7.28	6.19	6.86	5.97	4.42
	Sado-seki	<i>JP 11019</i>	6.80	7.95	9.30	2.78	5.48	7.60	7.20	6.84	7.31
	Happo	<i>JP 11021</i>	1.76	1.50	1.03	0.94	1.55	2.14	1.42	1.41	0.96
	Ijira	<i>JP 11022</i>	7.91	9.09	5.57	3.69	3.75	2.39	2.77	2.60	1.43
	Oki	<i>JP 11023</i>	12.7	10.9	15.0	8.70	13.6	20.4	9.16	10.6	13.2
	Banryu	<i>JP 11024</i>	2.12	4.89	3.76	4.36	5.25	4.76	4.37	3.89	3.22
	Yusuhara	<i>JP 11025</i>	2.15	1.05	2.37	1.30	3.72	2.27	2.15	1.51	0.93
	Hedo	<i>JP 11027</i>	26.3	7.57	24.3	14.0	43.7	20.2	8.77	8.95	6.23
	Ogasawara	<i>JP 11018</i>	7.10	7.37	8.21	7.82	3.59	4.68	4.01	4.97	4.36
Tokyo	<i>JP 11057</i>								1.51	2.12	
Lao PDR	Vientian	<i>LA 11051</i>				***	***	***	2.49	2.37	2.82
Malaysia	Petaling Jaya	<i>MY 11029</i>	6.06	4.39	3.37	9.25	4.91	6.99	6.23	2.97	4.45
	Tanah Rata	<i>MY 11030</i>	3.41	2.40	2.21	2.15	3.68	2.57	1.74	1.92	1.70
	Danum Valley	<i>MY 11053</i>						1.47	3.05	3.22	7.58
	Kuching	<i>MY 11060</i>									2.77
Mongolia	Ulaanbaatar	<i>MN 11031</i>	0.77	0.77	0.68	1.01	0.24	0.65	0.97	0.16	0.43
	Terelj	<i>MN 11032</i>	0.93	0.34	2.50	1.28	0.97	1.59	1.93	0.70	1.33
Myanmar	Yangon	<i>MM 11056</i>								***	***
Philippines	Metro Manila	<i>PH 11033</i>	62.6	53.1	29.4	5.55	8.50	9.28	34.0	18.9	37.1
	Los Banos	<i>PH 11034</i>	4.58	17.3	10.9	2.94	3.74	3.62	5.53	15.2	5.51
	Mt. Sto. Tomas	<i>PH 11055</i>							0.57	7.73	3.57
Republic of Korea	Kanghwa	<i>KR 11035</i>	6.27	5.40	7.28	14.8	10.0	5.26	5.31	9.51	8.35
	Cheju (Kosan)	<i>KR 11036</i>	6.69	10.4	6.55	10.5	9.11	6.02	6.80	8.94	8.78
	Imsil	<i>KR 11037</i>		19.3	6.50	21.0	6.90	60.6	29.9	19.2	4.79
Russia	Mondy	<i>RU 11038</i>	0.36	0.66	0.47	0.66	0.96	0.30	0.45	0.87	0.42
	Listvyanka	<i>RU 11039</i>	2.06	0.86	0.80	1.42	1.30	0.52	0.48	0.52	1.32
	Irkutsk	<i>RU 11040</i>	2.34	3.45	0.70	1.20	1.50	1.50	2.73	3.72	4.74
	Primorskaya	<i>RU 11041</i>			4.47	3.25	5.01	5.21	3.41	6.11	4.97
Thailand	Bangkok	<i>TH 11042</i>	3.70	4.83	4.36	3.63	1.96	4.34	4.50	2.48	3.61
	Samutprakarn	<i>TH 11043</i>	5.17				6.15	7.99	6.12	5.38	10.6
	Patumthani	<i>TH 11044</i>	2.16	2.27	1.41	1.93	1.16	1.52	2.67	2.23	2.51
	Khanchanaburi	<i>TH 11045</i>	7.82	7.54	5.23	3.29	1.52	1.40	6.16	1.21	2.26
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		3.19	6.49	3.19	1.62	1.02	2.41	2.69	3.38
	Nakhon Ratchasima	<i>TH 11054</i>							0.79	1.91	2.13
Viet Nam	Hanoi	<i>VN 11047</i>	5.14	8.59	2.93	4.08	4.65	9.19	4.65	4.48	6.28
	Hoa Binh	<i>VN 11048</i>	6.74	5.19	2.40	2.50	3.06	8.29	3.76	4.36	6.40

[***]: No data or not measured

Data in hatched column: Rejected annual value by the criteria of EANET (%PCL<80% or %TP<80%)

Black column: Monitoring was not carried out

Table 3.83 Annual Ca²⁺ depositionunit: mmol m⁻²y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	<i>KH 11052</i>					0.00	***	8.64	26.4	59.9
China	Guanyinqiao	<i>CN 11001</i>	68.1	103	94.5	64.5	153	168	120	97.7	
	Nanshan	<i>CN 11002</i>	69.5								
	Haifu	<i>CN 11058</i>									66.0
	Jinyunshan	<i>CN 11003</i>		31.9	47.7	37.8	107	84.3	118	90.7	82.9
	Shizhan	<i>CN 11004</i>	128	246	167	329	88.5	54.4	145	61.3	57.6
	Weishuiyuan	<i>CN 11005</i>	136	80.0	143	313	88.3	39.9	104		
	Jiwozi	<i>CN 11007</i>	103	89.5	39.1	140	89.7	46.7	51.9	34.7	116
	Hongwen	<i>CN 11008</i>	10.2	10.7	77.0	40.0	89.1	63.7	54.4	74.0	13.3
	Xiaoping	<i>CN 11009</i>	1.21	13.8	23.0	30.6	12.5	30.9	24.7	17.4	31.2
	Xiang Zhou	<i>CN 11010</i>	43.1	15.8	26.9	39.3	24.1	8.62	21.6	6.78	15.3
	Zhuxian Cavern	<i>CN 11011</i>	44.4	36.8	32.7	35.5	31.5	18.1	15.2	***	31.4
Indonesia	Jakarta	<i>ID 11012</i>	138	79.6	67.5	164	74.8	36.9	27.9	30.2	7.48
	Serpong	<i>ID 11014</i>	***	21.8	24.9	14.1	15.4	9.89	11.5	14.9	18.9
	Kototabang	<i>ID 11013</i>	9.28	1.73	8.84	17.3	14.7	7.42	6.48	13.0	12.1
	Bandung	<i>ID 11015</i>	***	63.0	43.4	17.5	16.3	27.7	19.4	18.7	26.4
	Maros	<i>ID 11059</i>									25.5
Japan	Rishiri	<i>JP 11016</i>	10.6	6.21	9.73	5.49	8.13	7.32	6.90	5.15	7.22
	Ochiishi	<i>JP 11050</i>				4.49	7.92	7.37	10.2	6.03	3.86
	Tappi	<i>JP 11017</i>	6.68	6.25	12.0	8.02	11.4	13.3	12.3	11.7	8.52
	Sado-seki	<i>JP 11019</i>	12.5	15.4	13.0	5.72	7.23	11.6	15.3	13.7	10.5
	Happo	<i>JP 11021</i>	8.49	10.1	5.21	4.72	7.29	12.4	17.3	6.77	4.44
	Ijira	<i>JP 11022</i>	18.2	12.6	11.1	8.55	7.92	7.25	8.17	8.23	4.94
	Oki	<i>JP 11023</i>	19.4	16.1	18.1	11.0	16.7	24.4	15.9	15.8	12.1
	Banryu	<i>JP 11024</i>	6.6	10.7	7.0	5.95	9.20	7.57	18.6	9.37	9.40
	Yusuhara	<i>JP 11025</i>	7.55	7.09	4.17	4.04	7.32	5.55	8.25	4.66	3.71
	Hedo	<i>JP 11027</i>	29.3	10.4	28.5	15.1	40.3	25.1	17.2	13.3	8.19
	Ogasawara	<i>JP 11018</i>	10.1	9.81	11.5	11.2	3.93	5.25	5.68	6.83	4.27
Tokyo	<i>JP 11057</i>								5.38	7.61	
Lao PDR	Vientian	<i>LA 11051</i>				***	***	***	6.20	4.25	9.62
Malaysia	Petaling Jaya	<i>MY 11029</i>	23.4	19.4	19.8	23.8	15.1	17.3	15.2	11.9	14.7
	Tanah Rata	<i>MY 11030</i>	7.06	8.13	8.56	10.1	5.60	5.28	3.20	3.11	3.03
	Danum Valley	<i>MY 11053</i>						1.70	3.79	1.53	1.06
	Kuching	<i>MY 11060</i>									8.19
Mongolia	Ulaanbaatar	<i>MN 11031</i>	7.41	7.86	8.91	7.88	3.60	7.49	8.63	5.19	6.66
	Terelj	<i>MN 11032</i>	3.16	1.33	6.72	3.32	3.36	3.33	5.32	2.52	3.68
Myanmar	Yangon	<i>MM 11056</i>								***	***
Philippines	Metro Manila	<i>PH 11033</i>	58.6	164	25.9	19.3	24.1	25.2	36.8	36.4	32.7
	Los Banos	<i>PH 11034</i>	18.3	119	12.3	12.5	9.41	5.82	15.4	16.1	7.10
	Mt. Sto. Tomas	<i>PH 11055</i>							2.43	79.0	15.7
Republic of Korea	Kanghwa	<i>KR 11035</i>	29.6	15.9	9.14	17.9	12.3	8.98	17.2	11.0	16.8
	Cheju (Kosan)	<i>KR 11036</i>	14.6	6.56	9.53	10.5	8.66	7.89	10.2	13.2	8.86
	Imsil	<i>KR 11037</i>		7.60	9.76	10.1	8.16	6.24	10.4	18.4	5.91
Russia	Mondy	<i>RU 11038</i>	1.76	2.24	1.74	1.55	1.92	1.19	2.24	2.42	1.64
	Listvyanka	<i>RU 11039</i>	5.66	3.58	4.11	7.70	7.80	3.72	2.74	3.68	3.19
	Irkutsk	<i>RU 11040</i>	14.9	16.3	9.53	10.9	12.1	9.53	10.7	12.7	15.5
	Primorskaya	<i>RU 11041</i>			15.1	8.16	14.9	15.6	15.6	13.8	10.7
Thailand	Bangkok	<i>TH 11042</i>	13.0	14.1	20.5	16.5	13.3	37.4	29.2	21.5	28.7
	Samutprakarn	<i>TH 11043</i>	10.8				9.88	15.7	21.0	20.5	24.0
	Patumthani	<i>TH 11044</i>	12.6	17.5	16.5	10.5	11.1	10.8	20.6	11.7	19.4
	Khanchanaburi	<i>TH 11045</i>	4.19	13.7	10.8	13.7	6.65	5.01	6.82	5.16	9.00
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		7.53	26.5	4.62	5.50	5.36	6.72	7.53	8.60
	Nakhon Ratchasima	<i>TH 11054</i>							11.4	5.20	5.78
Viet Nam	Hanoi	<i>VN 11047</i>	26.2	24.1	23.8	28.2	39.3	45.9	43.4	30.0	26.7
	Hoa Binh	<i>VN 11048</i>	24.8	23.1	20.5	20.2	36.4	32.6	27.5	18.2	28.7

[***]: No data or not measured

Data in hatched column: Rejected annual value by the criteria of EANET
(%PCL<80% or %TP<80%)

Black column: Monitoring was not carried out

Table 3.84 Annual nss-Ca²⁺ deposition

unit: mmol m⁻²y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	<i>KH 11052</i>					***	***	8.61	26.2	59.5
China	Guanyinqiao	<i>CN 11001</i>	67.9	103	94.3	64.4	153	168	120	97.5	
	Nanshan	<i>CN 11002</i>	69.3								
	Haifu	<i>CN 11058</i>									65.8
	Jinyunshan	<i>CN 11003</i>		31.7	47.5	37.7	107	83.9	117	90.4	82.6
	Shizhan	<i>CN 11004</i>	128	244	165	327	88.3	54.3	145	61.2	57.4
	Weishuiyuan	<i>CN 11005</i>	136	79.7	142	310	88.1	39.8	104		
	Jiwozi	<i>CN 11007</i>	102	88.8	38.6	139	89.1	46.2	51.6	34.5	116
	Hongwen	<i>CN 11008</i>	9.59	10.7	75.1	39.0	88.0	61.8	53.0	73.3	12.8
	Xiaoping	<i>CN 11009</i>	0.94	13.1	22.3	29.6	12.0	30.3	23.5	17.1	30.2
	Xiang Zhou	<i>CN 11010</i>	41.3	14.8	25.3	37.9	22.0	7.62	20.4	6.25	13.2
	Zhuxian Cavern	<i>CN 11011</i>	43.2	35.3	31.1	34.1	28.9	16.7	14.8	***	29.3
Indonesia	Jakarta	<i>ID 11012</i>	136	78.5	66.3	163	73.8	35.9	27.5	29.5	7.11
	Serpong	<i>ID 11014</i>	***	21.0	23.5	13.7	14.7	9.60	11.3	14.5	18.4
	Kototabang	<i>ID 11013</i>	***	1.65	8.60	16.6	14.2	7.15	6.31	12.5	11.8
	Bandung	<i>ID 11015</i>	***	61.8	42.9	17.2	16.1	26.9	18.9	18.4	25.9
	Maros	<i>ID 11059</i>									24.4
Japan	Rishiri	<i>JP 11016</i>	5.14	3.40	5.66	2.82	3.46	3.15	3.87	2.44	2.81
	Ochiishi	<i>JP 11050</i>				1.25	2.90	3.65	4.29	2.56	1.21
	Tappi	<i>JP 11017</i>	3.36	3.25	7.30	4.53	5.19	7.62	6.26	6.34	5.02
	Sado-seki	<i>JP 11019</i>	6.60	8.08	4.86	3.44	2.90	4.46	9.20	7.99	5.79
	Happo	<i>JP 11021</i>	8.12	9.80	5.02	4.46	6.91	12.0	17.0	6.63	4.30
	Ijira	<i>JP 11022</i>	17.0	11.1	9.45	7.71	6.39	6.49	7.51	7.21	4.21
	Oki	<i>JP 11023</i>	9.07	7.60	6.14	4.55	7.76	7.24	9.57	8.91	4.37
	Banryu	<i>JP 11024</i>	5.7	7.7	4.76	2.89	4.97	5.02	15.8	7.21	7.42
	Yusuhara	<i>JP 11025</i>	6.80	6.68	2.91	3.23	5.25	4.28	7.44	3.97	3.30
	Hedo	<i>JP 11027</i>	2.35	3.64	5.87	4.84	7.64	7.81	9.59	5.75	2.95
	Ogasawara	<i>JP 11018</i>	4.24	5.77	4.77	3.68	1.22	1.18	2.17	2.34	1.44
Tokyo	<i>JP 11057</i>								4.58	6.83	
Lao PDR	Vientian	<i>LA 11051</i>				***	***	***	6.09	4.18	9.51
Malaysia	Petaling Jaya	<i>MY 11029</i>	23.0	19.2	19.5	23.4	14.8	16.9	14.9	11.7	14.4
	Tanah Rata	<i>MY 11030</i>	6.93	8.02	8.46	9.95	5.51	4.92	3.13	3.02	2.95
	Danum Valley	<i>MY 11053</i>						1.58	3.49	1.36	0.94
	Kuching	<i>MY 11060</i>									7.77
Mongolia	Ulaanbaatar	<i>MN 11031</i>	7.38	7.83	8.88	7.85	3.59	7.46	8.59	5.17	6.64
	Terelj	<i>MN 11032</i>	3.13	1.30	6.46	3.29	3.33	3.27	5.26	2.48	3.66
Myanmar	Yangon	<i>MM 11056</i>								***	***
Philippines	Metro Manila	<i>PH 11033</i>	56.0	154	25.0	18.5	23.4	24.4	35.8	34.9	31.4
	Los Banos	<i>PH 11034</i>	16.3	117	11.5	12.0	8.95	5.22	14.3	14.9	6.32
	Mt. Sto. Tomas	<i>PH 11055</i>							2.40	78.7	15.1
Republic of Korea	Kanghwa	<i>KR 11035</i>	28.2	14.9	8.27	17.0	11.7	8.39	16.6	10.1	15.5
	Cheju (Kosan)	<i>KR 11036</i>	11.1	4.79	8.28	9.16	7.25	6.61	8.13	10.5	6.43
	Imsil	<i>KR 11037</i>		7.16	8.93	9.18	7.70	5.65	9.93	17.9	5.32
Russia	Mondy	<i>RU 11038</i>	1.75	2.22	1.73	1.53	1.90	1.18	2.23	2.40	1.63
	Listvyanka	<i>RU 11039</i>	5.61	3.54	4.08	7.64	7.74	3.69	2.72	3.66	3.17
	Irkutsk	<i>RU 11040</i>	14.8	16.2	9.47	10.8	12.0	9.46	10.6	12.6	15.4
	Primorskaya	<i>RU 11041</i>			14.7	7.92	14.5	15.2	15.4	13.4	10.4
Thailand	Bangkok	<i>TH 11042</i>	12.9	13.9	20.0	16.2	13.0	36.8	28.9	21.3	28.3
	Samutprakarn	<i>TH 11043</i>	10.6				9.43	15.0	20.6	20.0	23.4
	Patumthani	<i>TH 11044</i>	12.3	17.3	16.3	10.3	11.0	10.6	20.4	11.6	19.2
	Khanchanaburi	<i>TH 11045</i>	4.02	13.4	10.4	13.4	6.38	4.72	6.44	4.90	8.61
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		7.44	26.2	4.57	5.42	5.33	6.64	7.47	8.52
	Nakhon Ratchasima	<i>TH 11054</i>							11.2	5.07	5.62
Viet Nam	Hanoi	<i>VN 11047</i>	25.7	23.5	23.6	27.8	39.1	45.2	43.0	29.7	26.2
	Hoa Binh	<i>VN 11048</i>	24.2	22.6	20.4	20.1	36.2	32.2	27.4	18.0	28.5

[***]: No data or not measured

Data in hatched column: Rejected annual value by the criteria of EANET (%PCL<80% or %TP<80%)

Black column: Monitoring was not carried out

Table 3.85 Annual Mg²⁺ deposition

unit: mmol m⁻²y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	KH 11052					0.00	***	0.63	4.49	6.33
China	Guanyinqiao	CN 11001	9.23	8.73	8.67	4.40	12.7	13.7	10.6	10.4	
	Nanshan	CN 11002	8.87								
	Haifu	CN 11058									7.15
	Jinyunshan	CN 11003		4.09	5.41	3.56	5.39	4.63	4.78	4.61	5.62
	Shizhan	CN 11004	13.2	17.6	23.7	42.7	9.18	6.69	13.6	11.3	17.5
	Weishuiyuan	CN 11005	14.2	6.13	21.1	52.0	8.99	4.77	13.3		
	Jiwozi	CN 11007	12.1	8.58	7.09	20.7	16.9	11.2	9.51	4.88	33.8
	Hongwen	CN 11008	6.40	1.86	15.1	7.76	12.2	15.4	11.6	8.32	4.65
	Xiaoping	CN 11009	2.07	6.77	3.50	7.15	2.81	3.35	6.52	2.16	6.78
	Xiang Zhou	CN 11010	14.1	5.83	9.56	12.3	8.51	8.10	18.3	3.43	11.2
	Zhuxian Cavern	CN 11011	14.1	8.56	11.2	12.9	10.8	9.65	4.43	***	13.2
Indonesia	Jakarta	ID 11012	346	85.3	20.7	20.6	9.25	7.72	12.7	4.79	2.87
	Serpong	ID 11014	***	5.67	11.3	5.76	5.84	3.09	2.78	5.33	9.76
	Kototabang	ID 11013	***	1.25	4.63	21.1	3.76	2.06	2.82	10.6	2.48
	Bandung	ID 11015	***	10.6	4.16	2.73	2.93	4.29	4.27	3.31	10.3
	Maros	ID 11059									7.77
Japan	Rishiri	JP 11016	28.0	15.2	21.4	14.4	25.0	22.4	16.3	15.0	24.8
	Ochiishi	JP 11050				17.3	27.3	18.2	31.1	18.6	14.5
	Tappi	JP 11017	18.3	16.7	26.1	19.3	34.5	30.0	32.1	27.9	19.1
	Sado-seki	JP 11019	30.9	39.3	44.0	12.7	24.1	37.7	32.7	30.3	24.0
	Happo	JP 11021	3.66	3.73	2.42	3.06	3.90	3.59	2.64	1.57	1.15
	Ijira	JP 11022	7.75	8.93	9.34	6.42	9.43	4.51	4.63	6.23	3.92
	Oki	JP 11023	54.4	45.6	63.8	33.9	48.4	91.8	37.6	36.8	40.8
	Banryu	JP 11024	5.22	16.29	12.12	16.3	23.0	13.9	16.3	12.5	11.3
	Yusuhara	JP 11025	6.09	3.80	8.34	5.21	11.4	7.07	5.25	4.27	2.42
	Hedo	JP 11027	145	35.8	120	68.7	162	84.3	40.7	40.0	27.9
	Ogasawara	JP 11018	38.2	23.9	43.1	43.5	15.3	21.8	18.1	23.4	17.7
	Tokyo	JP 11057									4.56
Lao PDR	Vientian	LA 11051				***	***	***	2.47	0.98	2.18
Malaysia	Petaling Jaya	MY 11029	4.74	4.02	3.79	2.15	2.66	2.40	2.85	1.16	1.95
	Tanah Rata	MY 11030	1.30	1.07	1.17	1.36	0.75	1.42	0.45	0.33	0.19
	Danum Valley	MY 11053						0.41	1.45	1.20	1.58
	Kuching	MY 11060									1.24
Mongolia	Ulaanbaatar	MN 11031	0.81	0.90	0.64	1.10	0.49	0.78	0.83	0.60	0.57
	Terelj	MN 11032	0.66	0.22	1.01	0.71	1.07	0.90	1.04	0.38	0.62
Myanmar	Yangon	MM 11056								***	***
Philippines	Metro Manila	PH 11033	25.5	34.4	9.72	6.60	9.47	5.86	14.7	14.5	11.1
	Los Banos	PH 11034	9.78	20.1	5.00	4.18	6.25	3.84	7.65	10.7	8.80
	Mt. Sto. Tomas	PH 11055							0.42	7.03	1.76
Republic of Korea	Kanghwa	KR 11035	10.4	6.00	5.22	4.50	4.82	5.03	5.57	5.95	4.26
	Cheju (Kosan)	KR 11036	19.7	11.1	7.60	7.57	8.17	10.5	10.8	9.09	8.16
	Imsil	KR 11037		2.49	3.28	3.00	2.89	2.27	2.83	4.80	1.70
Russia	Mondy	RU 11038	0.33	0.47	0.45	0.32	0.46	0.27	0.40	0.62	0.41
	Listvyanka	RU 11039	1.30	0.88	1.10	1.97	1.76	0.72	0.53	0.76	0.69
	Irkutsk	RU 11040	2.66	2.60	1.71	1.97	2.64	2.24	2.06	3.00	3.40
	Primorskaya	RU 11041			4.73	3.60	4.87	4.18	3.43	4.25	3.46
Thailand	Bangkok	TH 11042	2.30	3.71	4.61	3.22	2.59	7.58	3.72	2.65	4.15
	Samutprakarn	TH 11043	2.33				2.36	5.57	6.57	5.03	6.91
	Patumthani	TH 11044	2.30	2.93	2.63	1.76	1.55	1.66	2.82	1.77	2.84
	Khanchanaburi	TH 11045	1.47	3.82	3.85	3.63	2.29	2.30	2.47	1.70	3.16
	Chiang Mai (Mae Hia)	TH 11046		1.19	5.22	1.68	2.10	1.43	3.44	1.16	2.29
	Nakhon Ratchasima	TH 11054							2.36	2.47	2.11
Viet Nam	Hanoi	VN 11047	6.27	8.94	4.18	5.77	5.98	15.2	10.5	6.91	8.27
	Hoa Binh	VN 11048	8.84	8.25	2.31	3.62	4.62	9.59	8.17	5.38	3.17

[***]: No data or not measured

Data in hatched column: Rejected annual value by the criteria of EANET (%PCL<80% or %TP<80%)

Black column: Monitoring was not carried out

Table 3.86 Annual H⁺ depositionunit: mmol m⁻²y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007	2008
Cambodia	Phnom Penh	<i>KH 11052</i>					2.01	0.63	0.18	0.28	2.65
China	Guanyinqiao	<i>CN 11001</i>	50.5	12.1	36.4	31.7	36.0	12.1	11.6	29.3	
	Nanshan	<i>CN 11002</i>	76.2								
	Haifu	<i>CN 11058</i>									64.1
	Jinyunshan	<i>CN 11003</i>		46.5	70.1	62.0	39.3	34.7	24.4	49.4	53.3
	Shizhan	<i>CN 11004</i>	1.17	0.15	0.20	1.27	0.30	1.96	1.33	1.60	0.15
	Weishuiyuan	<i>CN 11005</i>	0.17	0.03	0.22	1.02	0.49	3.09	0.46		
	Jiwozi	<i>CN 11007</i>	3.14	0.12	0.14	0.54	0.79	0.23	0.32	0.01	0.05
	Hongwen	<i>CN 11008</i>	29.0	8.75	25.4	44.8	20.6	33.8	31.4	21.8	24.3
	Xiaoping	<i>CN 11009</i>	19.1	33.8	72.9	73.2	48.3	48.1	38.9	26.5	55.8
	Xiang Zhou	<i>CN 11010</i>	14.2	22.7	13.5	13.6	22.1	32.2	20.4	33.7	33.0
	Zhuxian Cavern	<i>CN 11011</i>	40.8	43.0	20.3	13.8	29.6	25.9	13.3	***	30.2
Indonesia	Jakarta	<i>ID 11012</i>	10.4	4.68	26.5	11.3	30.0	104	61.4	59.7	38.6
	Serpong	<i>ID 11014</i>	***	38.0	56.6	51.6	30.5	21.1	40.1	52.0	56.7
	Kototabang	<i>ID 11013</i>	73.0	10.3	8.78	15.6	39.0	46.0	36.6	14.7	14.9
	Bandung	<i>ID 11015</i>	***	26.4	88.7	16.1	8.31	16.3	9.18	23.2	15.9
	Maros	<i>ID 11059</i>									7.15
Japan	Rishiri	<i>JP 11016</i>	12.1	10.3	14.4	9.43	13.6	17.7	27.8	23.3	10.2
	Ochiishi	<i>JP 11050</i>				9.53	13.4	12.0	13.8	14.5	9.86
	Tappi	<i>JP 11017</i>	19.9	24.9	27.8	31.0	37.5	30.9	25.5	25.1	21.4
	Sado-seki	<i>JP 11019</i>	28.7	22.5	32.5	24.2	30.4	31.5	24.9	36.5	28.5
	Happo	<i>JP 11021</i>	40.6	34.1	30.7	30.5	43.0	47.6	29.4	37.8	24.2
	Ijira	<i>JP 11022</i>	80.7	82.9	80.5	115	75.8	79.4	87.6	66.3	80.2
	Oki	<i>JP 11023</i>	27.6	21.1	29.2	27.9	22.4	36.0	26.1	26.8	27.7
	Banryu	<i>JP 11024</i>	35.9	39.1	26.5	40.7	34.7	42.2	40.1	41.1	37.2
	Yusuhara	<i>JP 11025</i>	54.7	31.1	40.8	52.3	42.1	52.9	45.4	36.4	47.3
	Hedo	<i>JP 11027</i>	21.5	23.1	22.9	17.4	29.4	26.2	18.9	27.7	19.6
	Ogasawara	<i>JP 11018</i>	11.7	14.6	10.9	12.7	8.75	31.5	16.1	14.7	16.8
Tokyo	<i>JP 11057</i>								17.6	46.2	
Lao PDR	Vientian	<i>LA 11051</i>				0.03	1.00	0.32	0.23	3.02	1.65
Malaysia	Petaling Jaya	<i>MY 11029</i>	153	173	157	158	142	123	151	83.2	140
	Tanah Rata	<i>MY 11030</i>	50.4	33.4	30.1	38.3	33.1	41.4	31.3	33.0	31.4
	Danum Valley	<i>MY 11053</i>						13.1	26.8	24.0	18.1
	Kuching	<i>MY 11060</i>									23.8
Mongolia	Ulaanbaatar	<i>MN 11031</i>	0.11	0.11	0.07	0.56	0.03	0.15	0.07	0.07	0.08
	Terelj	<i>MN 11032</i>	0.63	0.08	0.44	1.24	0.34	1.34	1.48	1.12	0.77
Myanmar	Yangon	<i>MM 11056</i>								10.6	2.50
Philippines	Metro Manila	<i>PH 11033</i>	13.2	8.86	24.1	79.8	14.4	26.8	13.5	18.7	6.75
	Los Banos	<i>PH 11034</i>	9.58	5.41	3.07	52.2	9.54	11.9	5.42	9.01	21.2
	Mt. Sto. Tomas	<i>PH 11055</i>							0.20	10.0	16.3
Republic of Korea	Kanghwa	<i>KR 11035</i>	11.2	11.6	18.3	33.5	23.8	46.1	23.0	21.2	43.9
	Cheju (Kosan)	<i>KR 11036</i>	15.0	14.4	24.8	19.3	20.5	19.9	51.8	38.2	18.1
	Imsil	<i>KR 11037</i>		10.5	2.00	15.7	14.2	1.24	4.57	2.49	11.2
Russia	Mondy	<i>RU 11038</i>	1.68	1.00	0.83	1.83	1.64	1.24	1.67	1.06	1.38
	Listvyanka	<i>RU 11039</i>	3.78	5.42	4.74	5.24	6.67	6.62	7.10	8.82	9.06
	Irkutsk	<i>RU 11040</i>	4.15	2.49	2.86	1.94	6.74	3.36	2.52	5.59	9.01
	Primorskaya	<i>RU 11041</i>			5.26	4.27	10.0	6.39	9.32	14.4	9.02
Thailand	Bangkok	<i>TH 11042</i>	12.8	12.6	10.3	40.8	7.86	25.6	11.0	14.1	9.39
	Samutprakarn	<i>TH 11043</i>	14.5				4.29	5.55	1.93	4.60	8.81
	Patumthani	<i>TH 11044</i>	5.41	10.0	4.39	22.7	13.3	16.4	20.9	21.5	15.4
	Khanchanaburi	<i>TH 11045</i>	2.41	8.29	5.05	5.65	1.18	5.86	4.48	2.83	4.30
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		2.10	2.79	2.00	2.93	8.50	2.83	1.05	1.34
	Nakhon Ratchasima	<i>TH 11054</i>							9.06	11.5	16.0
Viet Nam	Hanoi	<i>VN 11047</i>	4.48	3.31	3.95	2.45	3.56	1.25	2.28	4.32	3.24
	Hoa Binh	<i>VN 11048</i>	14.7	20.2	10.6	7.02	4.61	4.63	3.98	17.0	6.42

[***]: No data or not measured

Data in hatched column: Rejected annual value by the criteria of EANET (%PCL<80% or %TP<80%)

Black column: Monitoring was not carried out

Table 3.87 Site Code

Country	Name of sites	Code
Cambodia	Phnom Penh	KH 11052
China	Guanyinqiao	CN 11001
	Nanshan	CN 11002
	Haifu	CN 11058
	Jinyunshan	CN 11003
	Shizhan	CN 11004
	Weishuiyuan	CN 11005
	Dabagou	CN 11006
	Jiwozi	CN 11007
	Hongwen	CN 11008
	Xiaoping	CN 11009
	Xiang Zhou	CN 11010
	Zhuxian Cavern	CN 11011
Indonesia	Jakarta	ID 11012
	Kototabang	ID 11013
	Serpong	ID 11014
	Bandung	ID 11015
	Maros	ID 11059
Japan	Rishiri	JP 11016
	Ochiishi	JP 11050
	Tappi	JP 11017
	Sado-seki	JP 11019
	Happo	JP 11021
	Ijira	JP 11022
	Oki	JP 11023
	Banryu	JP 11024
	Yusuhara	JP 11025
	Hedo	JP 11027
	Ogasawara	JP 11018
	Tokyo	JP 11057
	Sado	JP 11020
	Ashizuri	JP 11026
Kunigami	JP 11028	
Lao PDR	Vientiane	LA 11051
Malaysia	Petaling Jaya	MY 11029
	Tanah Rata	MY 11030
	Danum Valley	MY 11053
	Kuching	MY 11060
Mongolia	Ulaanbaatar	MN 11031
	Terelj	MN 11032
Myanmar	Yangon	MM 11056
Philippines	Metro Manila	PH 11033
	Los Banos	PH 11034
	Mt. Sto. Tomas	PH 11055
Republic of Korea	Kanghwa	KR 11035
	Cheju (Kosan)	KR 11036
	Imsil	KR 11037
Russia	Mondy	RU 11038
	Listvyanka	RU 11039
	Irkutsk	RU 11040
	Primorskaya	RU 11041
Thailand	Bangkok	TH 11042
	Samutprakarn	TH 11043
	Patumthani	TH 11044
	Khanchanaburi	TH 11045
	Chiang Mai (Mae Hia)	TH 11046
	Nakhon Ratchasima	TH 11054
Viet Nam	Hanoi	VN 11047
	Hoa Binh	VN 11048

Including the sites working only for preparatory-phase activities

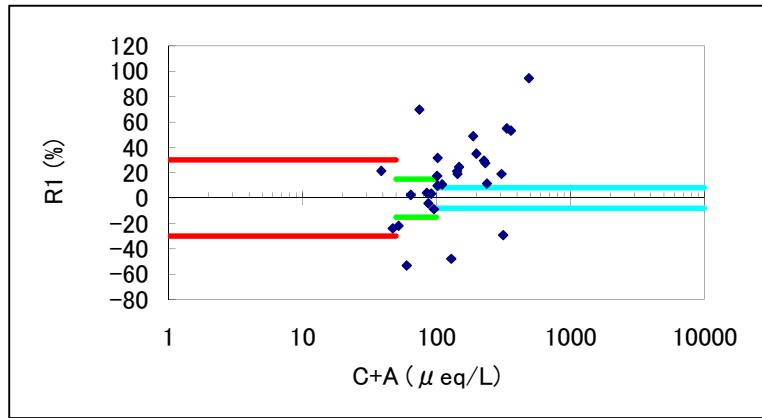


Fig. 3.2 a) Phnom Penh Ion Balance (R_1)

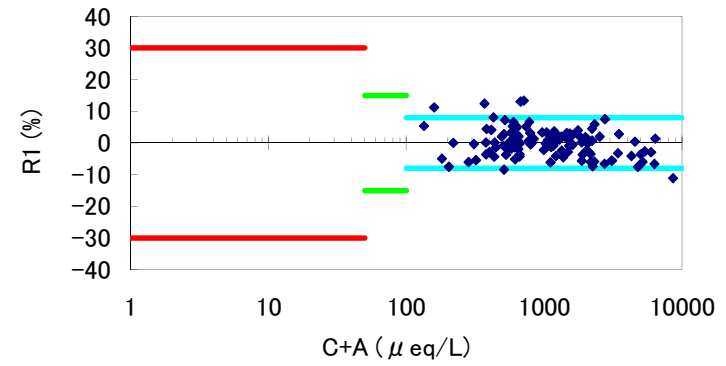


Fig. 3.3 a) Haifu Ion Balance (R_1)

Calculated including F^-

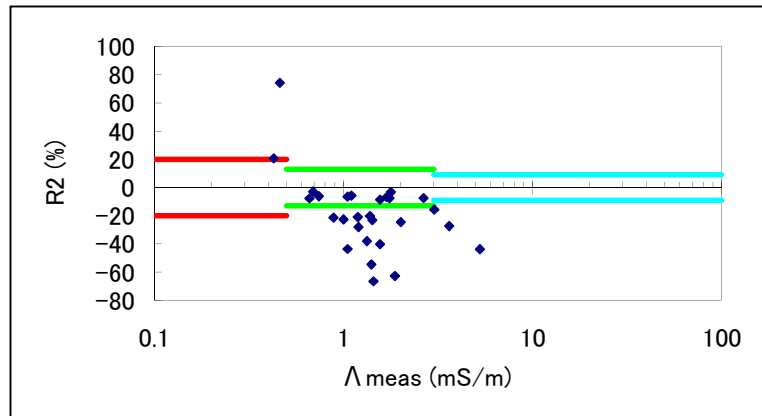


Fig. 3.2 b) Phnom Penh Conductivity Agreement (R_2)

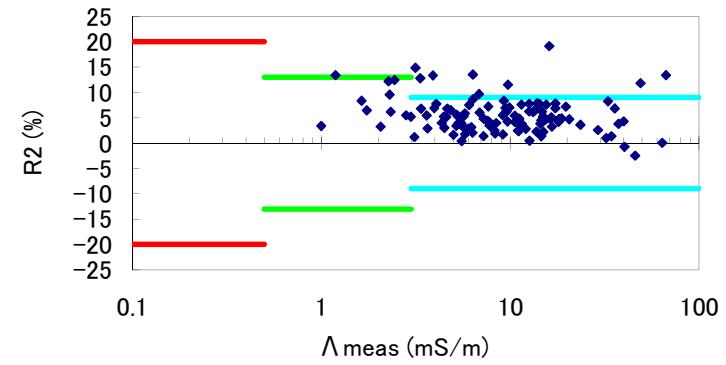


Fig. 3.3 b) Haifu Conductivity Agreement (R_2)

Calculated including F^-

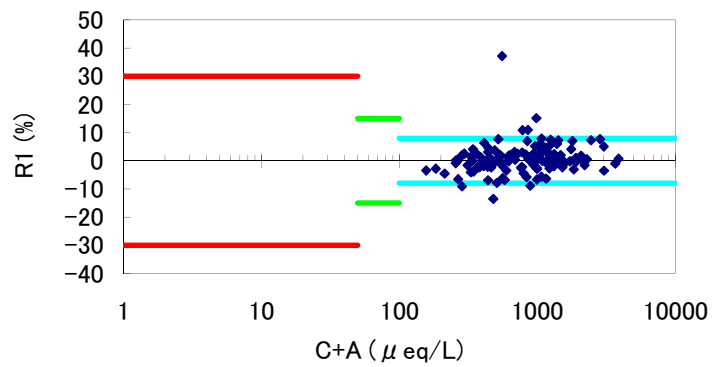


Fig. 3.4 a) Jinyunshan Ion Balance (R_1)

Calculated including F^-

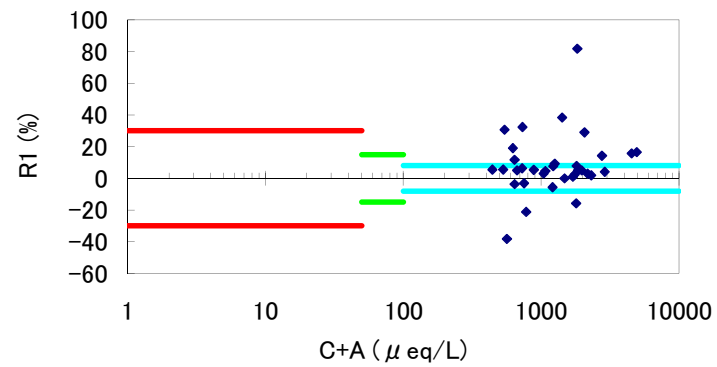


Fig. 3.5 a) Shizhan Ion Balance (R_1)

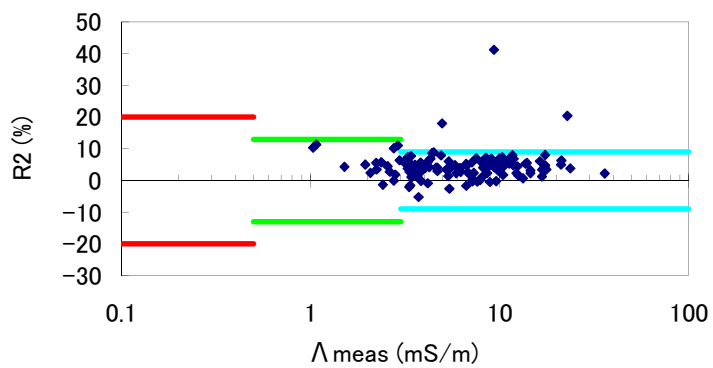


Fig 3.4 b) Jinyunshan Conductivity Agreement (R_2)

Calculated including F^-

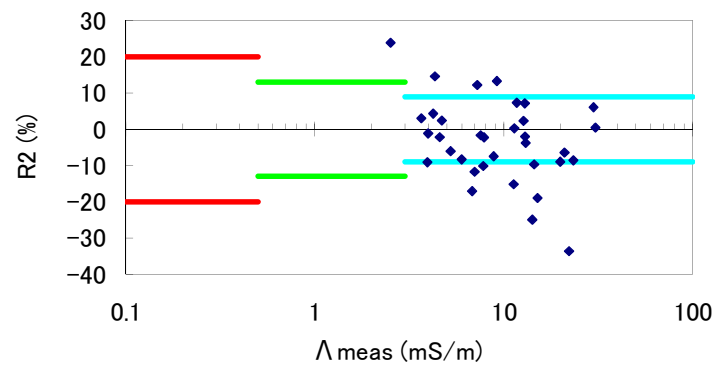


Fig. 3.5 b) Shizhan Conductivity Agreement (R_2)

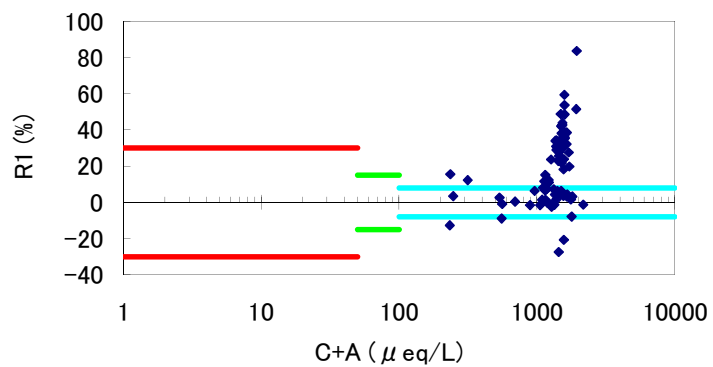


Fig. 3.6 a) Jiwozi Ion Balance (R_1)

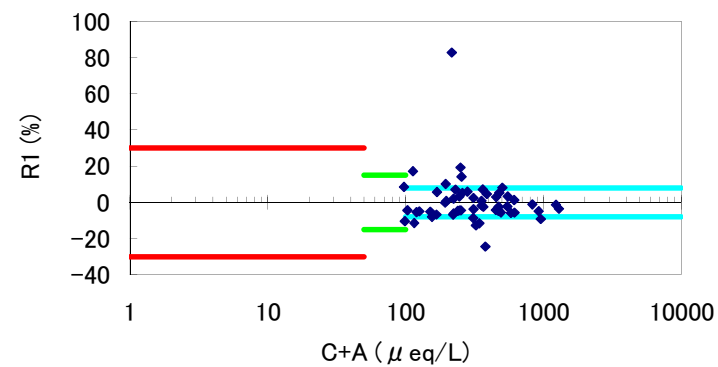


Fig. 3.7 a) Hongwen Ion Balance (R_1)

Calculated including F^-

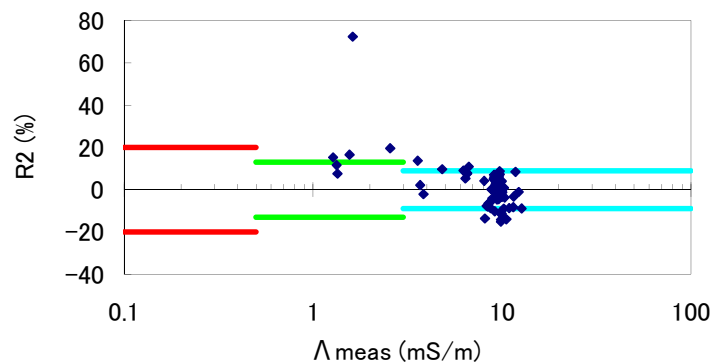


Fig. 3.6 b) Jiwozi Conductivity Agreement (R_2)

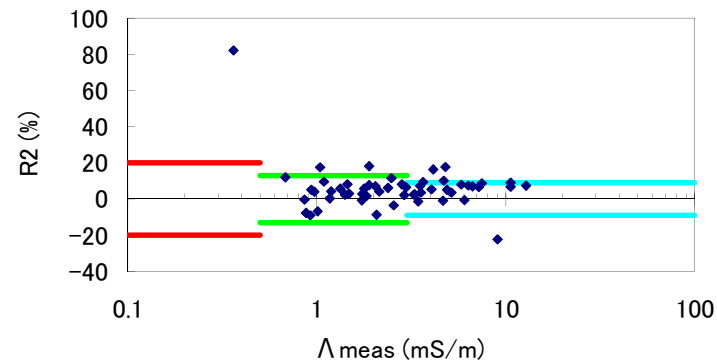


Fig. 3.7 b) Hongwen Conductivity Agreement (R_2)

Calculated including F^-

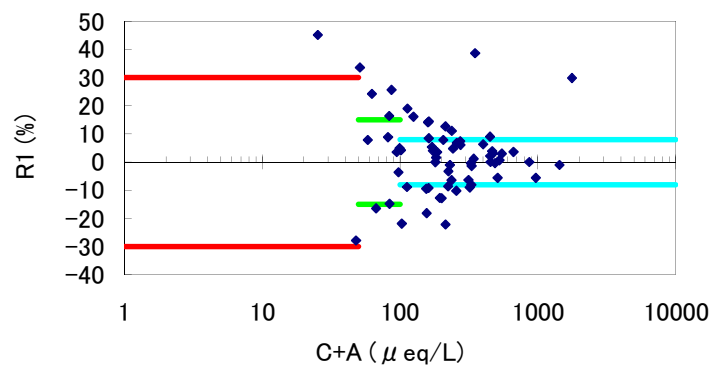


Fig. 3.8 a) Xiaoping Ion Balance (R_1)

Calculated including F^-

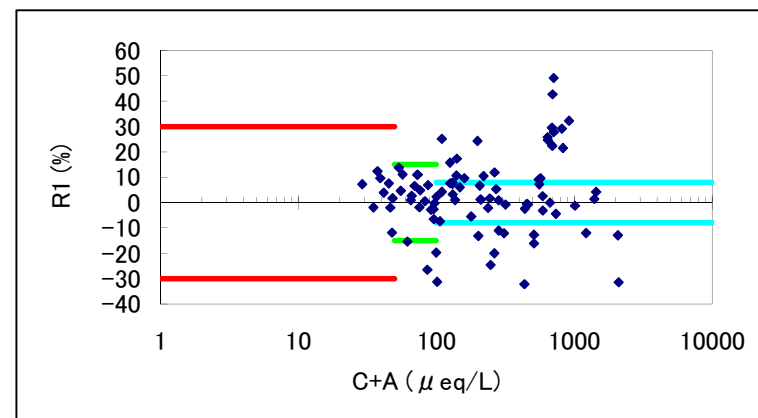


Fig. 3.9 a) Xiang Zhou Ion Balance (R_1)

Calculated including F^-

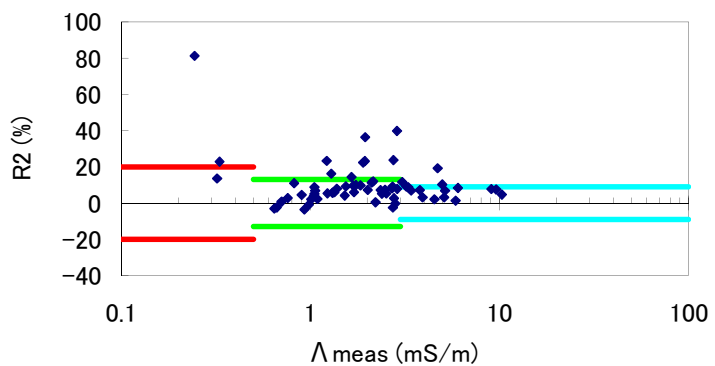


Fig. 3.8 b) Xiaoping Conductivity Agreement (R_2)

Calculated including F^-

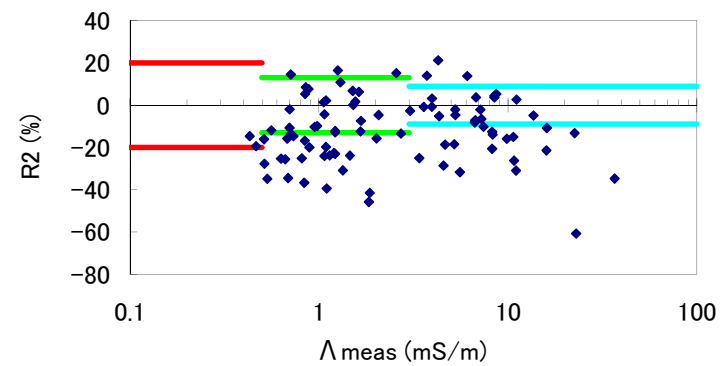


Fig. 3.9 b) Xiang Zhou Conductivity Agreement (R_2)

Calculated including F^-

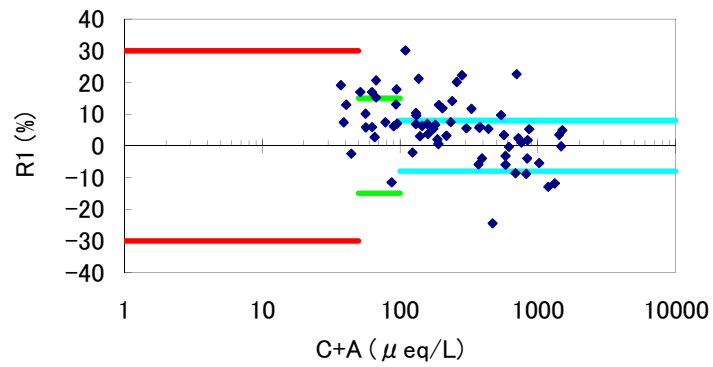


Fig. 3.10 a) Zhuxian Cavern Ion Balance (R_1)

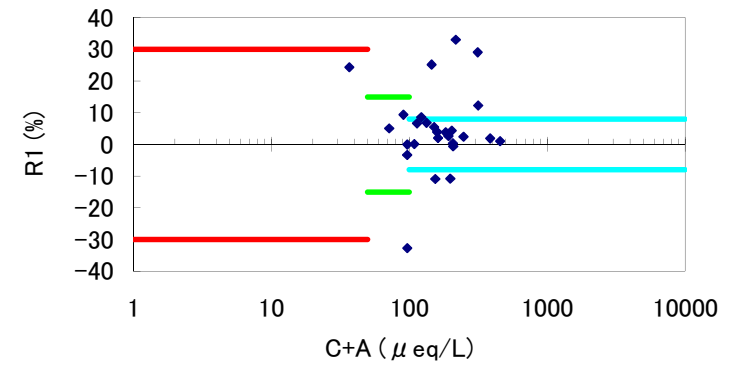


Fig. 3.11 a) Jakarta Ion Balance (R_1)

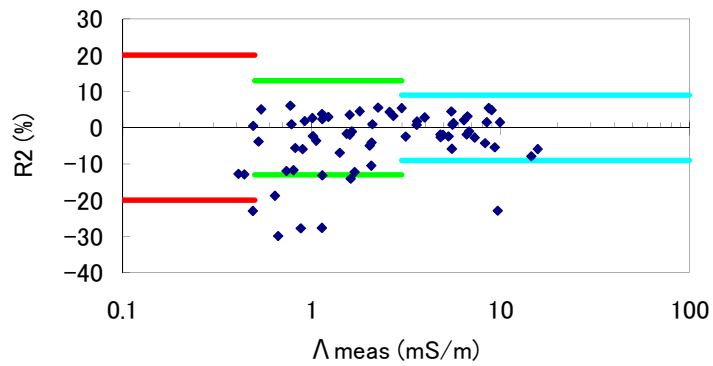


Fig 3.10 b) Zhuxian Cavern Conductivity Agreement (R_2)

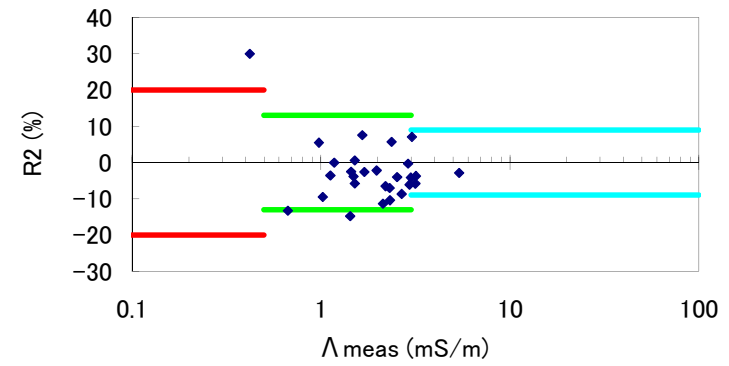


Fig 3.11 b) Jakarta Conductivity Agreement (R_2)

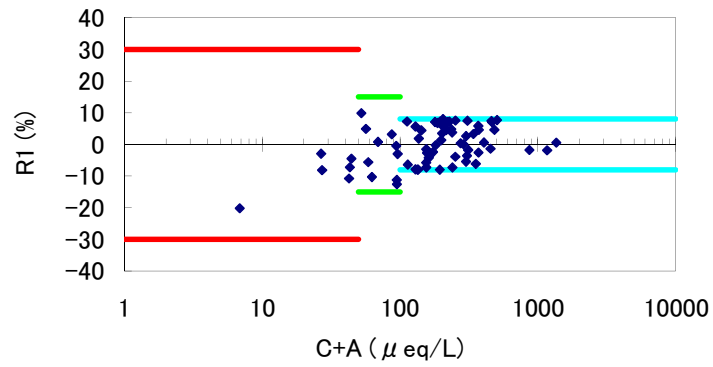


Fig. 3.12 a) Serpong Ion Balance (R_1)

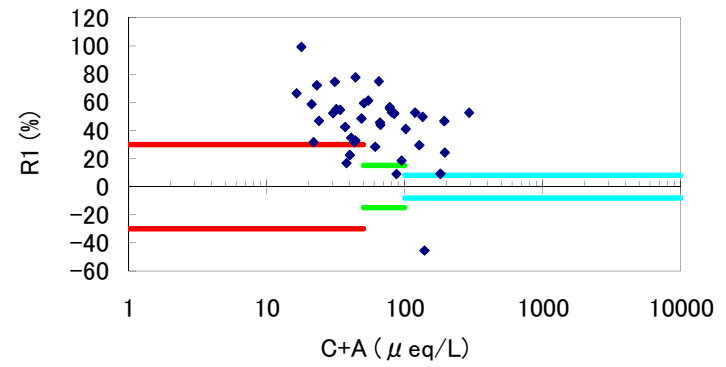


Fig. 3.13 a) Kototabang Ion Balance (R_1)

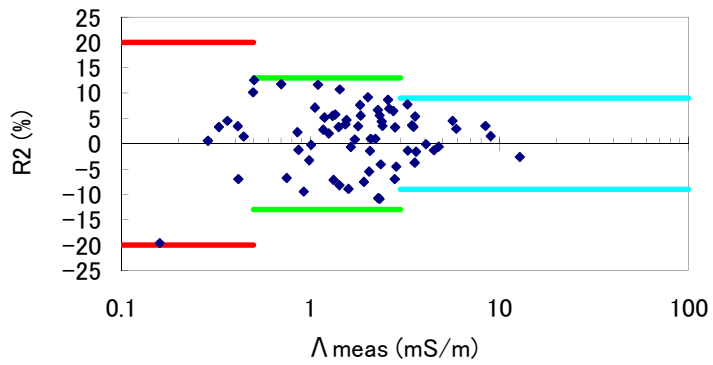


Fig. 3.12 b) Serpong Conductivity Agreement (R_2)

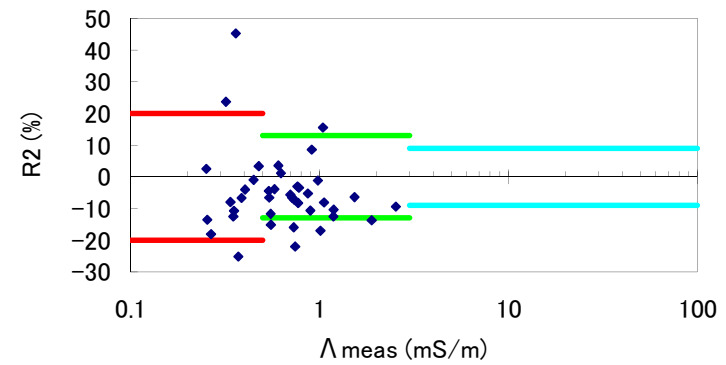


Fig. 3.13 b) Kototabang Conductivity Agreement (R_2)

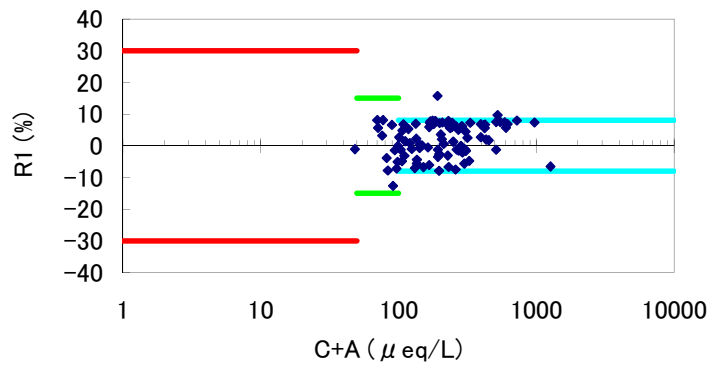


Fig. 3.14 a) Bandung Ion Balance (R_1)

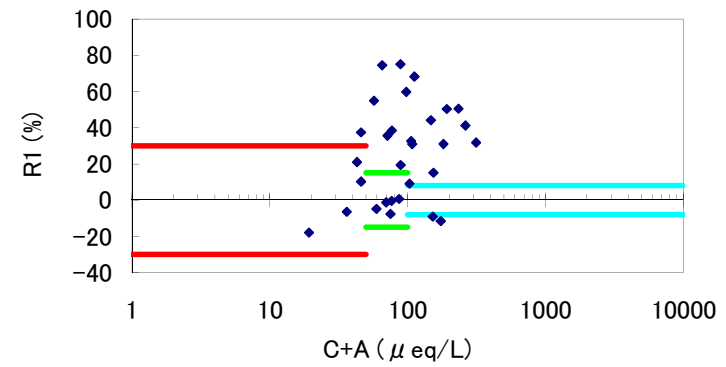


Fig. 3.15 a) Maros Ion Balance (R_1)

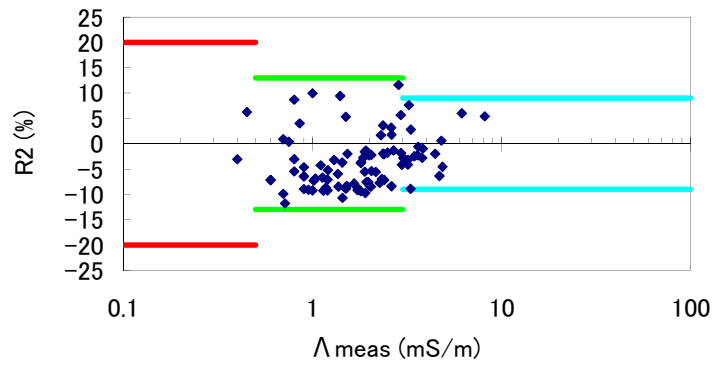


Fig. 3.14 b) Bandung Conductivity Agreement (R_2)

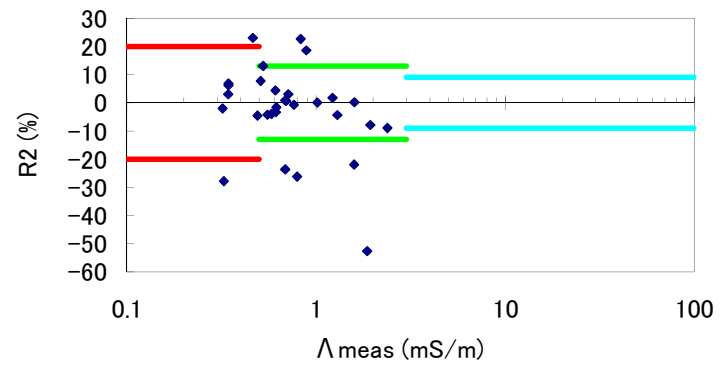


Fig. 3.15 b) Maros Conductivity Agreement (R_2)

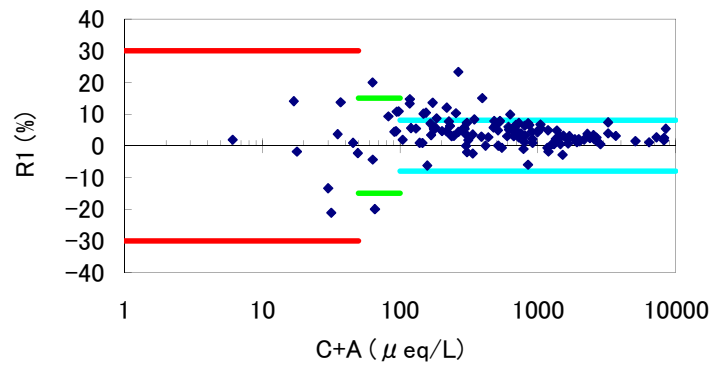


Fig. 3.16 a) Rishiri Ion Balance (R_1)

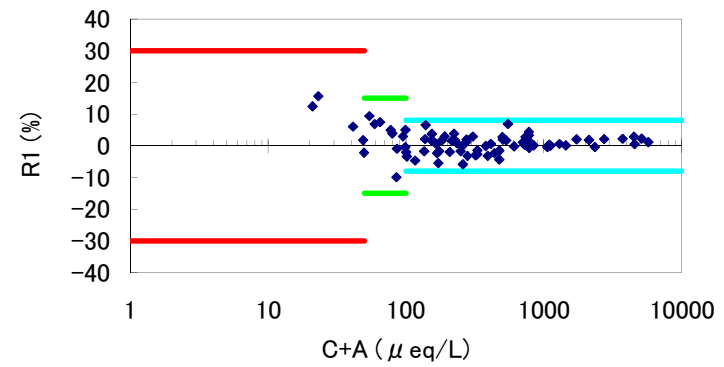


Fig. 3.17 a) Ochiishi Ion Balance (R_1)

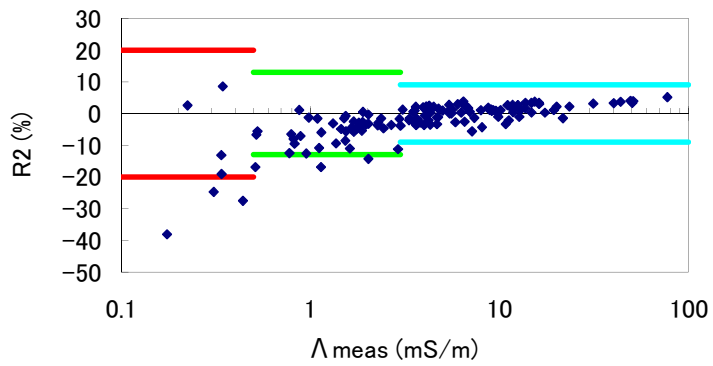


Fig. 3.16 b) Rishiri Conductivity Agreement (R_2)

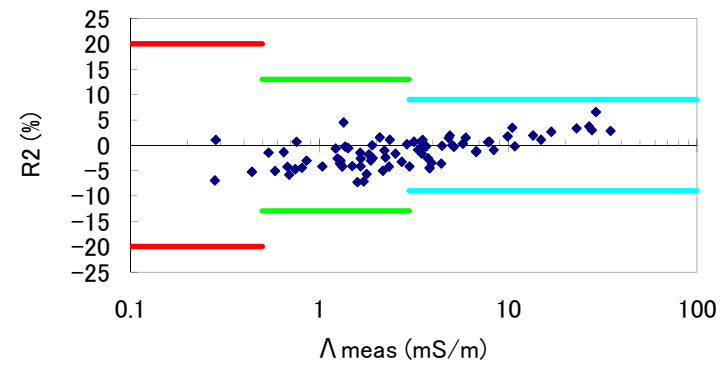


Fig. 3.17 b) Ochiishi Conductivity Agreement (R_2)

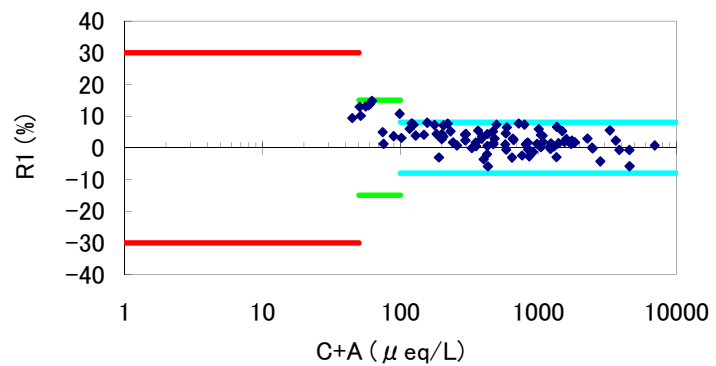


Fig. 3.18 a) Tappi Ion Balance (R_1)

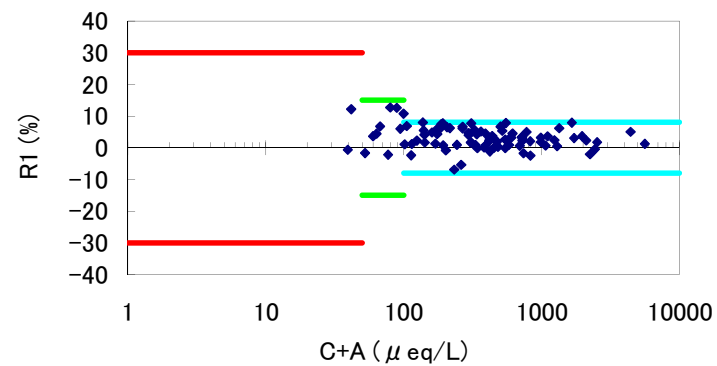


Fig. 3.19 a) Sado-seki Ion Balance (R_1)

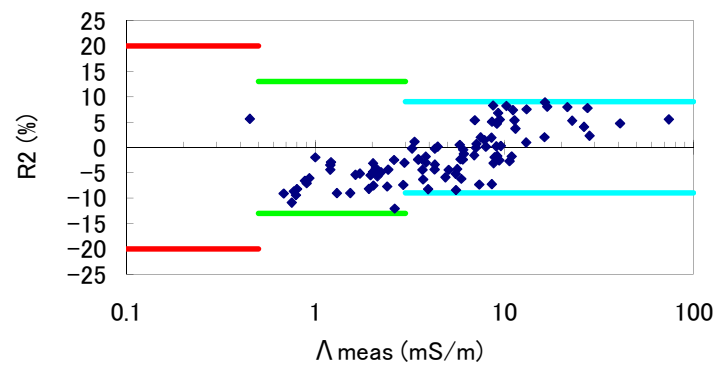


Fig. 3.18 b) Tappi Conductivity Agreement (R_2)

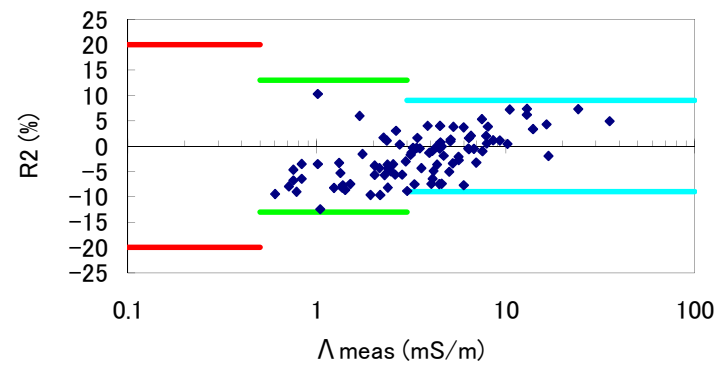


Fig. 3.19 b) Sado-seki Conductivity Agreement (R_2)

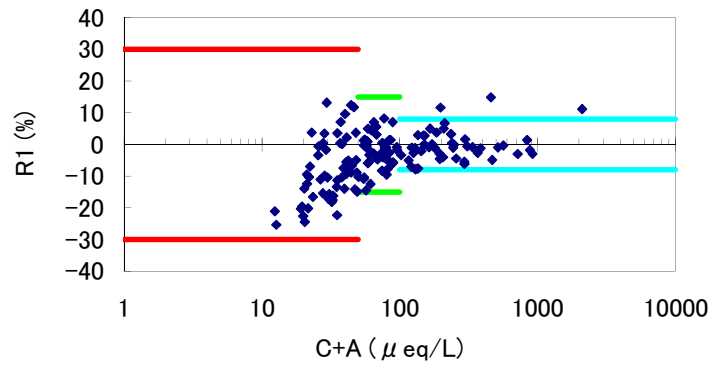


Fig. 3.20 a) Happo Ion Balance (R_1)

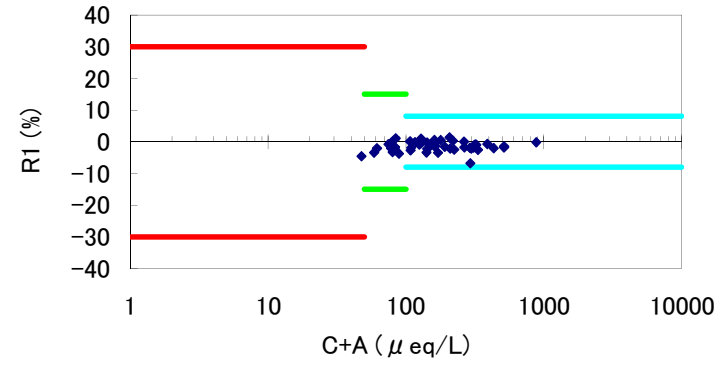


Fig. 3.21 a) Ijira Ion Balance (R_1)

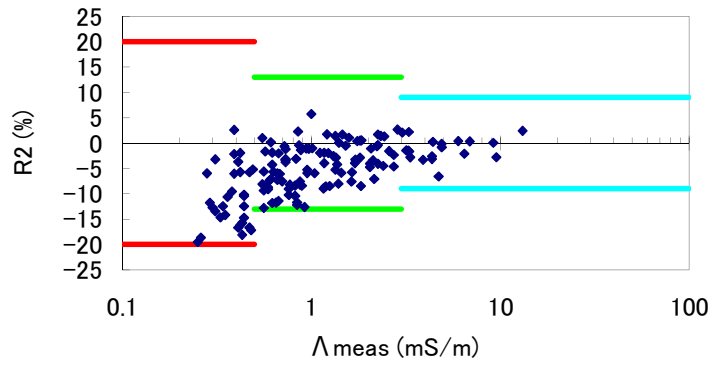


Fig. 3.20 b) Happo Conductivity Agreement (R_2)

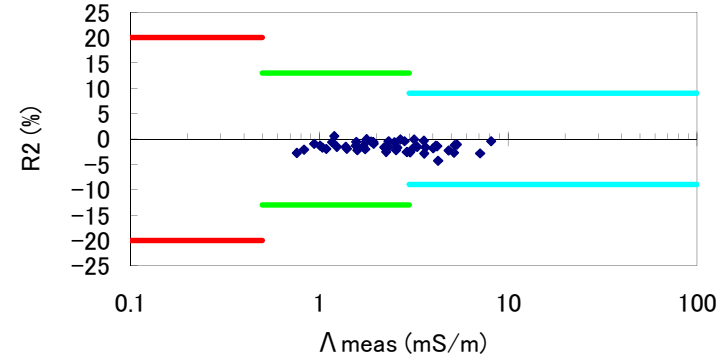


Fig. 3.21 b) Ijira Conductivity Agreement (R_2)

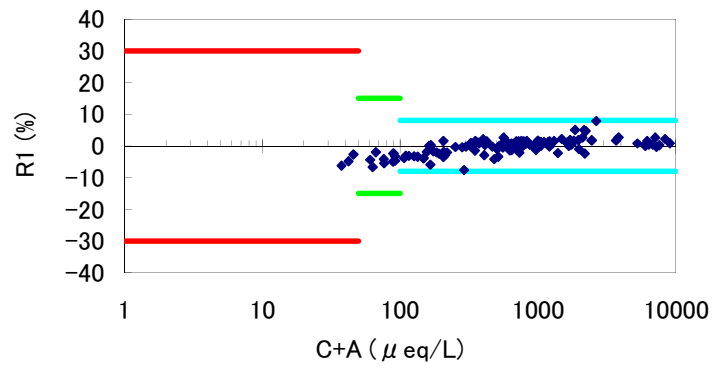


Fig. 3.22 a) Oki Ion Balance (R_1)

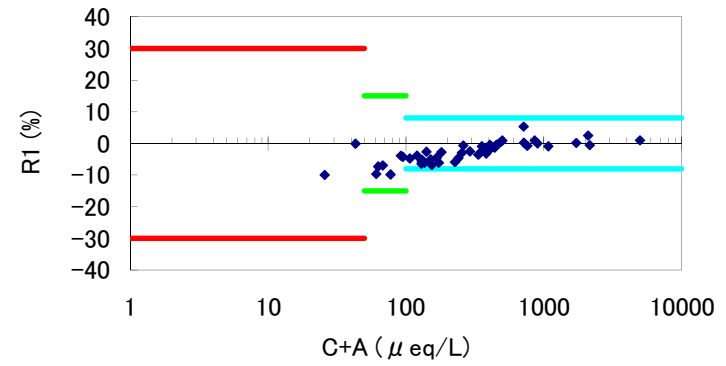


Fig. 3.23 a) Banryu Ion Balance (R_1)

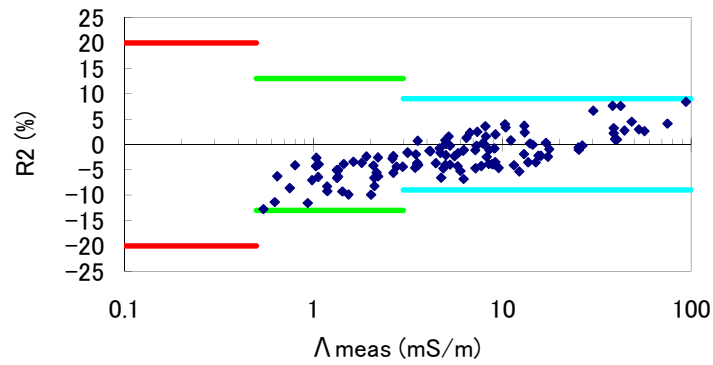


Fig. 3.22 b) Oki Conductivity Agreement (R_2)

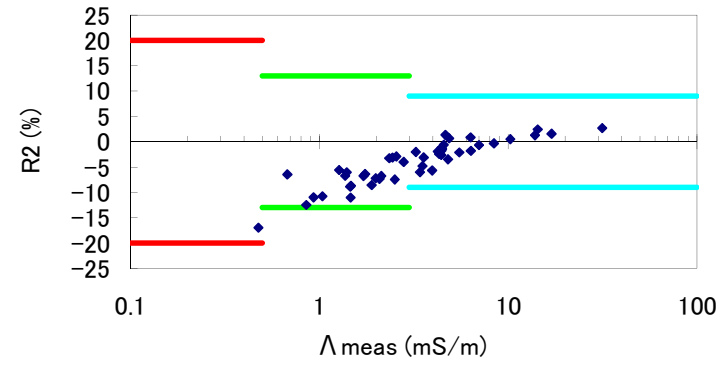


Fig. 3.23 b) Banryu Conductivity Agreement (R_2)

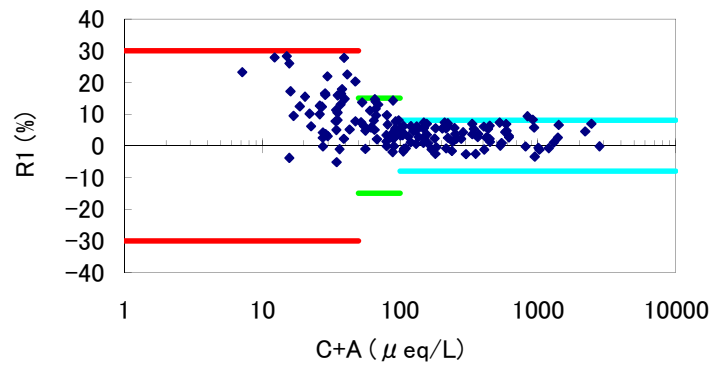


Fig. 3.24 a) Yusuhara Ion Balance (R_1)

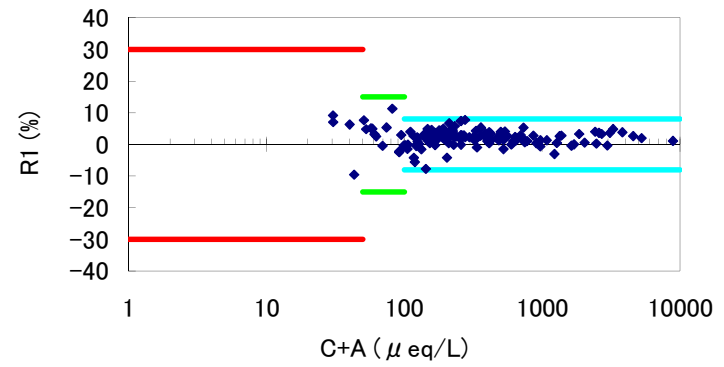


Fig. 3.25 a) Hedo Ion Balance (R_1)

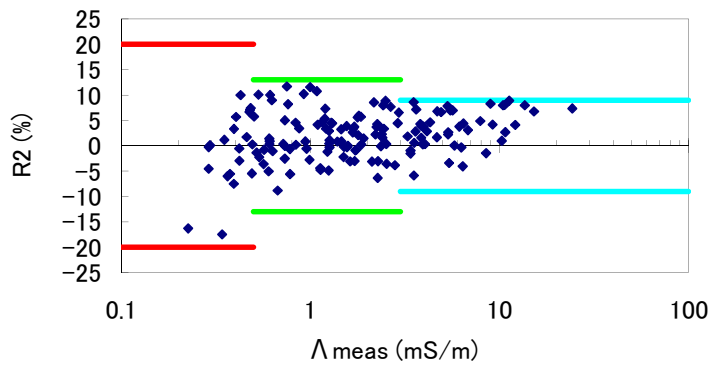


Fig. 3.24 b) Yusuhara Conductivity Agreement (R_2)

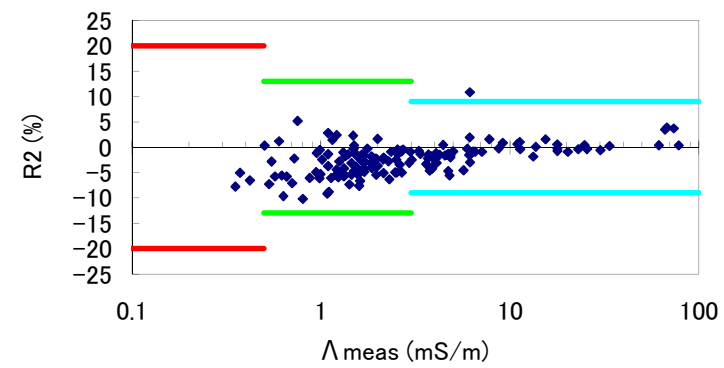


Fig. 3.25 b) Hedo Conductivity Agreement (R_2)

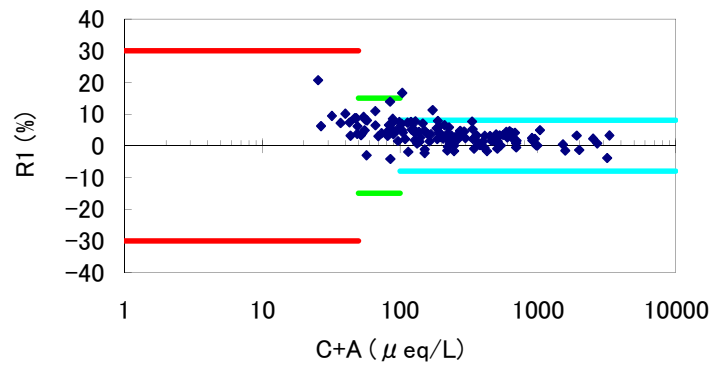


Fig. 3.26 a) Ogasawara Ion Balance (R_1)

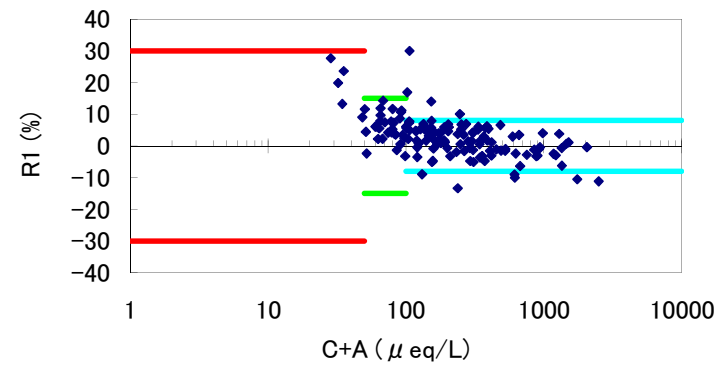


Fig. 3.27 a) Tokyo Ion Balance (R_1)

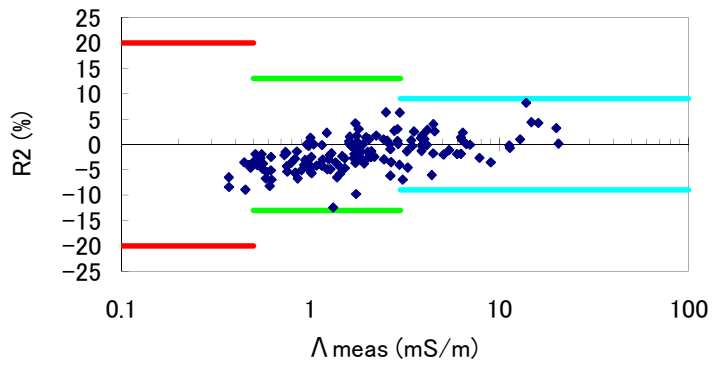


Fig. 3.26 b) Ogasawara Conductivity Agreement (R_2)

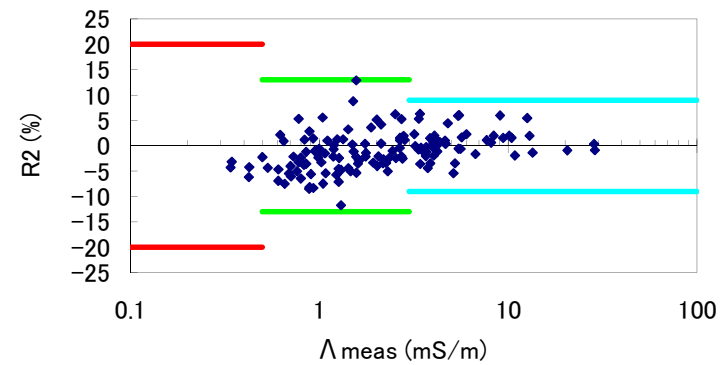


Fig. 3.27 b) Tokyo Conductivity Agreement (R_2)

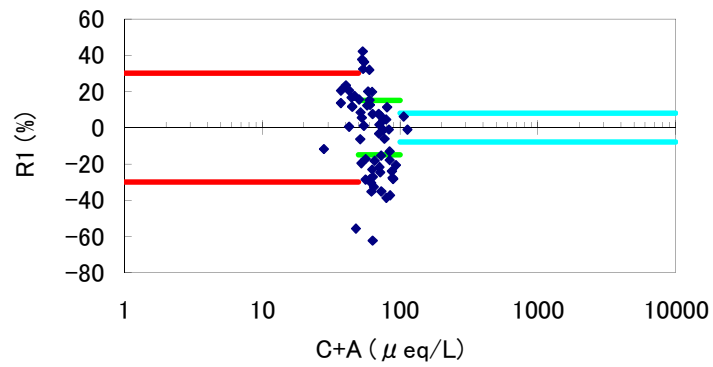


Fig. 3.28 a) Vientiane Ion Balance (R_1)

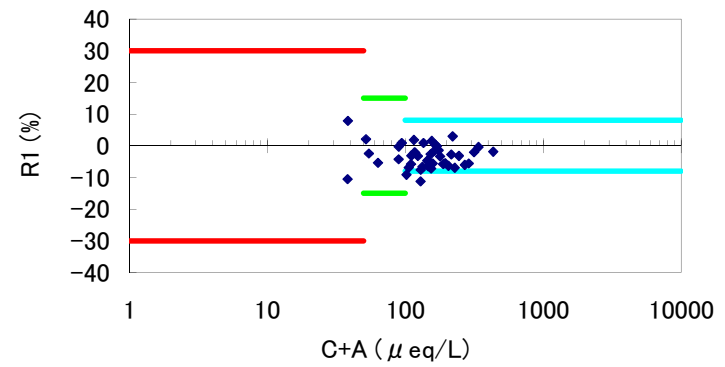


Fig. 3.29 a) Petaling Jaya Ion Balance (R_1)

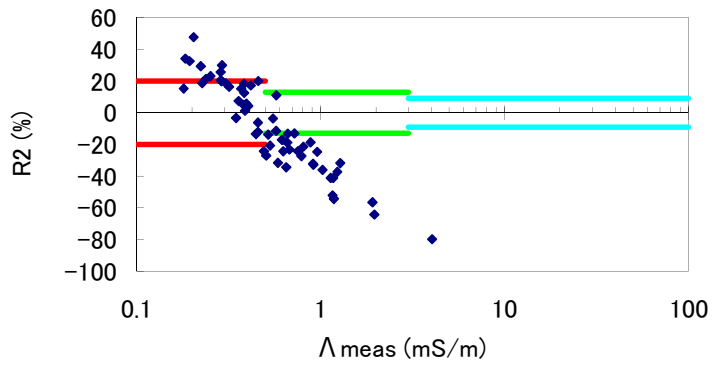


Fig. 3.28 b) Vientiane Conductivity Agreement (R_2)

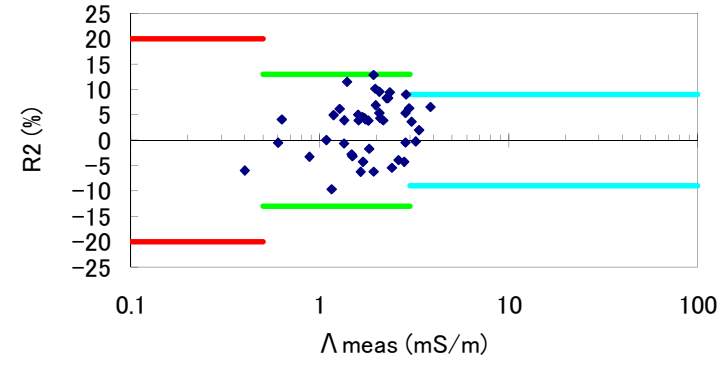


Fig. 3.29 b) Petaling Jaya Conductivity Agreement (R_2)

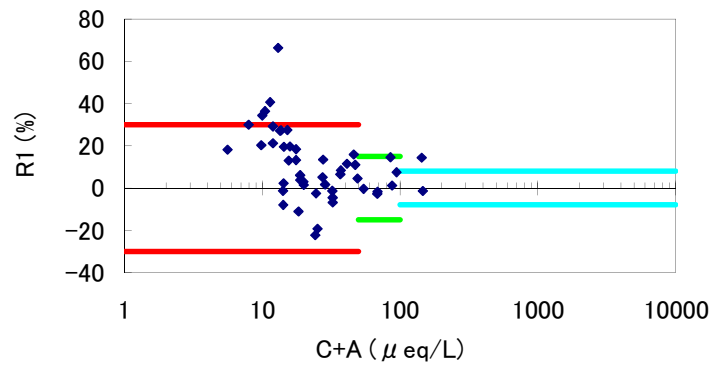


Fig. 3.30 a) Tanah Rata Ion Balance (R_1)

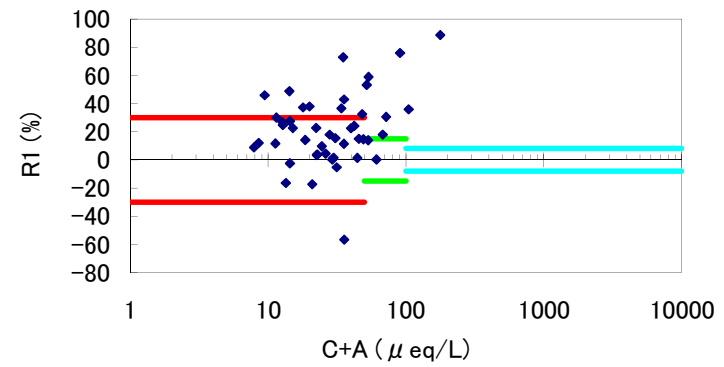


Fig. 3.31 a) Danum Valley Ion Balance (R_1)

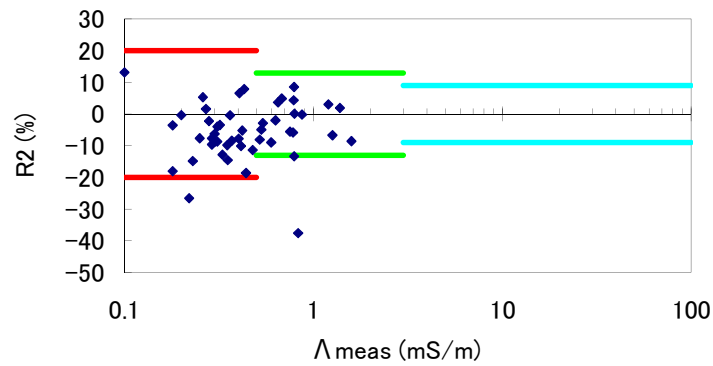


Fig. 3.30 b) Tanah Rata Conductivity Agreement (R_2)

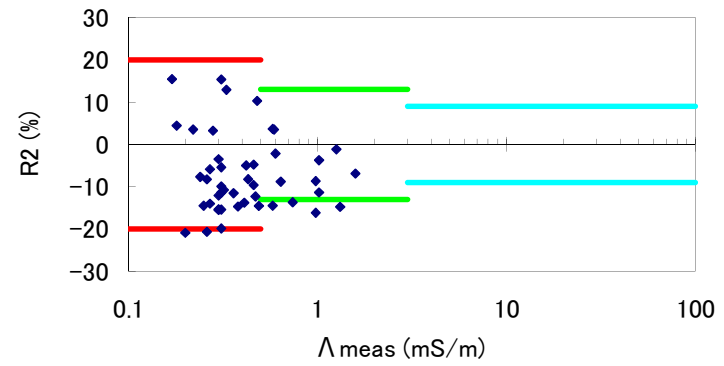


Fig. 3.31 b) Danum Valley Conductivity Agreement (R_2)

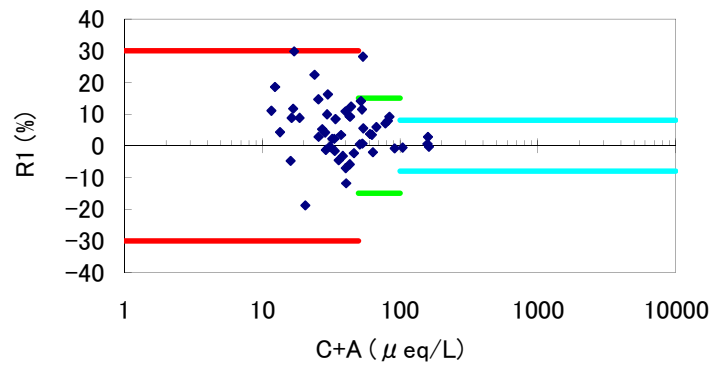


Fig. 3.32 a) Kuching Ion Balance (R_1)

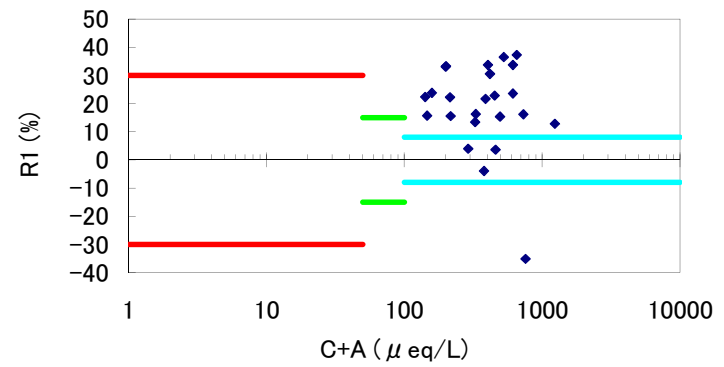


Fig. 3.33 a) Ulaanbaatar Ion Balance (R_1)

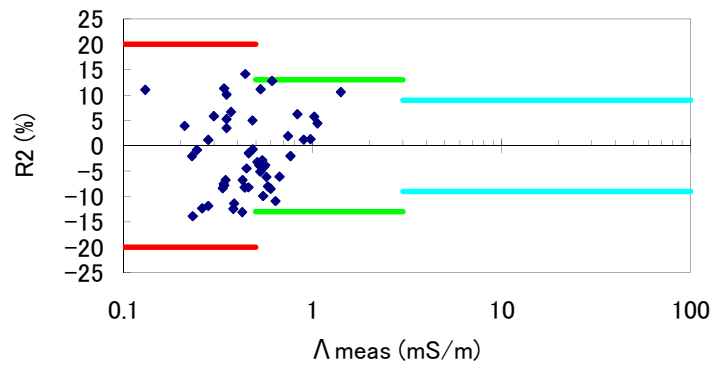


Fig. 3.32 b) Kuching Conductivity Agreement (R_2)

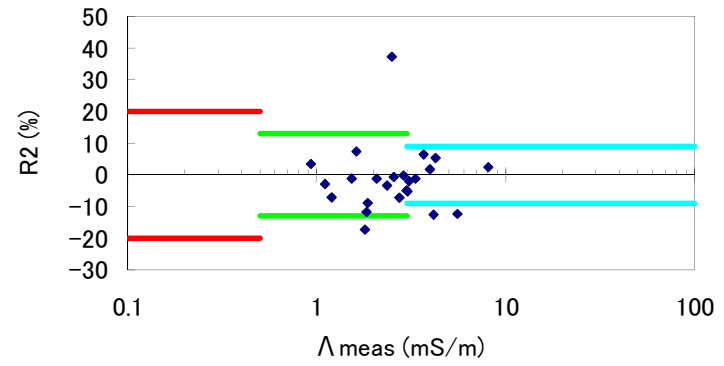


Fig. 3.33 b) Ulaanbaatar Conductivity Agreement (R_2)

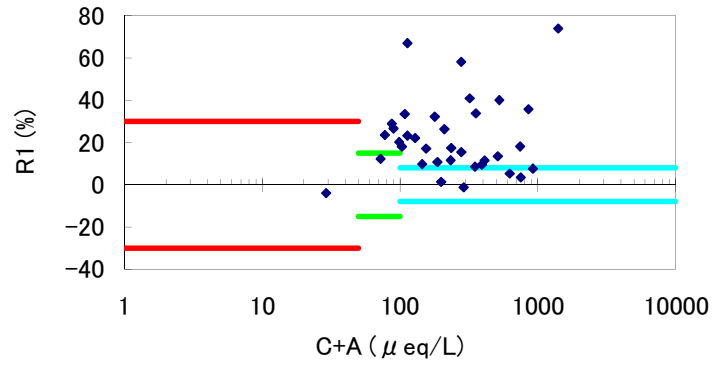


Fig. 3.34 a) Terelj Ion Balance (R_1)

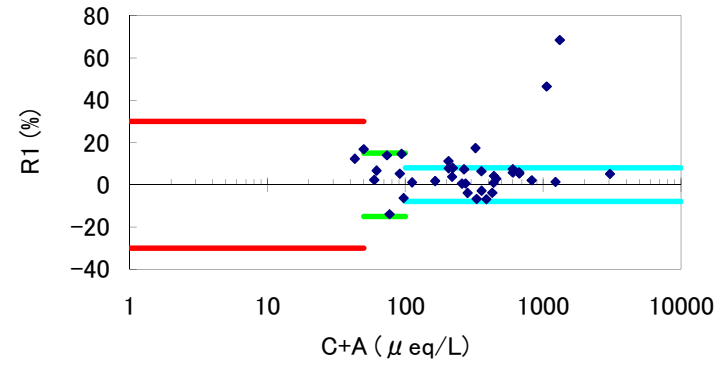


Fig. 3.35 a) Metro Manila Ion Balance (R_1)
Calculated including NO_2^-

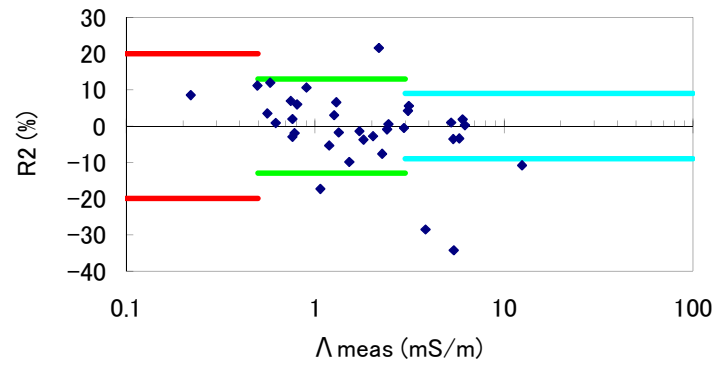


Fig. 3.34 b) Terelj Conductivity Agreement (R_2)

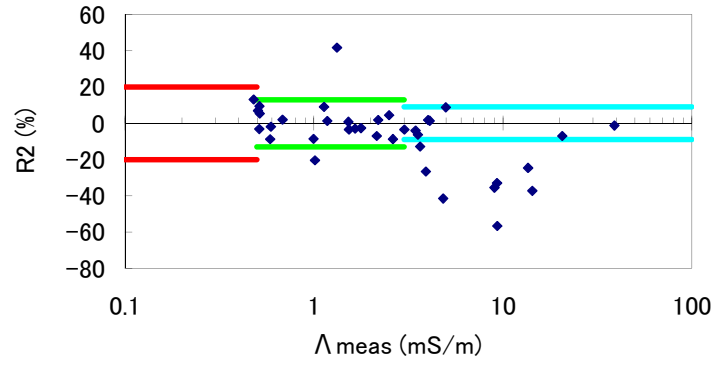


Fig. 3.35 b) Metro Manila Conductivity Agreement (R_2)
Calculated including NO_2^-

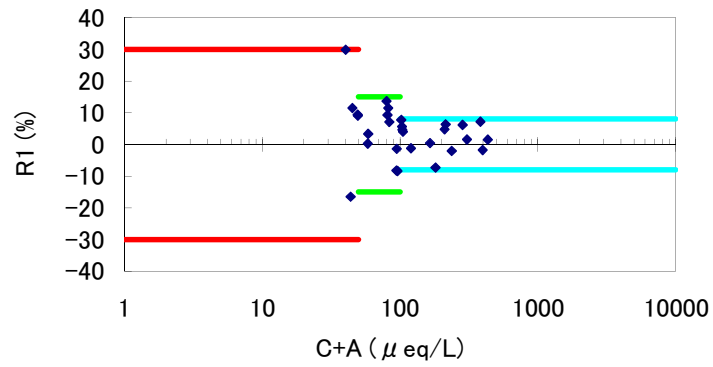


Fig. 3.36 a) Los Banos Ion Balance (R_1)
Calculated including NO_2^-

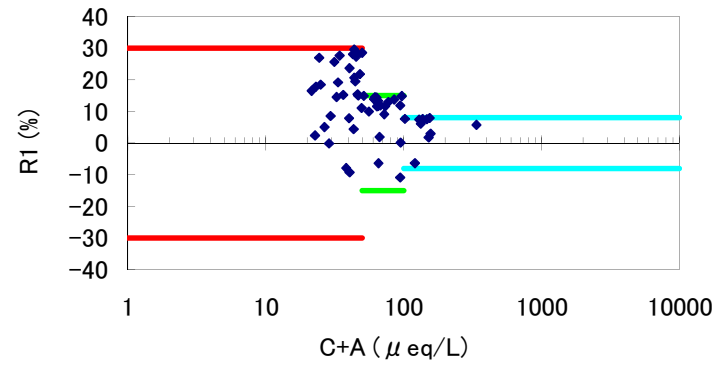


Fig. 3.37 a) Mt. Sto. Tomas Ion Balance (R_1)
Calculated including NO_2^-

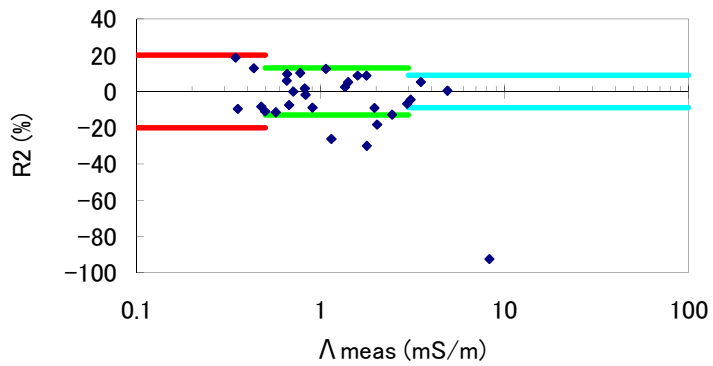


Fig. 3.36 b) Los Banos Conductivity Agreement (R_2)
Calculated including NO_2^-

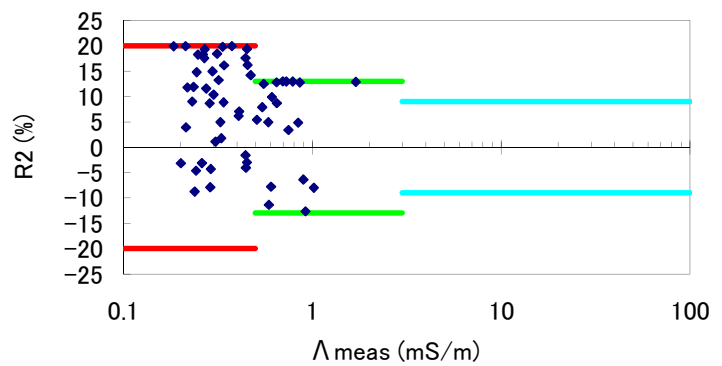


Fig. 3.37 b) Mt. Sto. Tomas Conductivity Agreement (R_2)
Calculated including NO_2^-

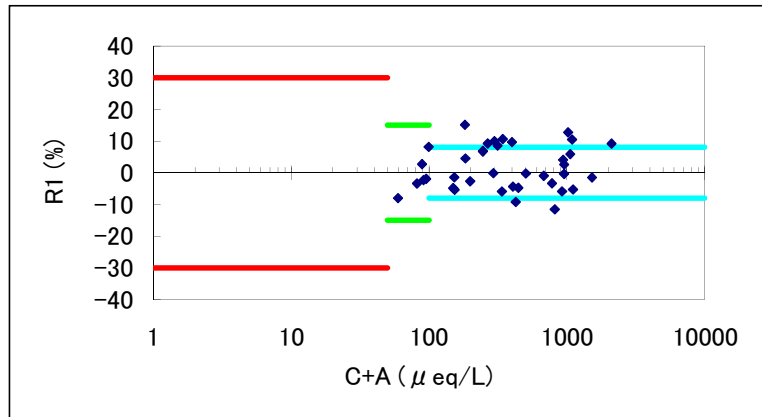


Fig. 3.38 a) Kanhwa Ion Balance (R_1)

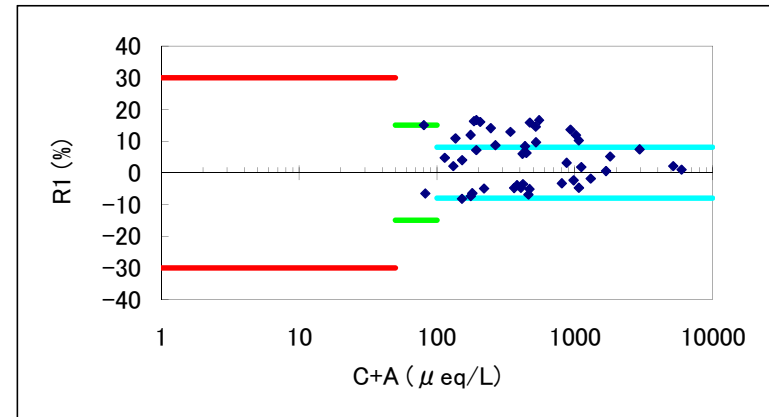


Fig. 3.39 a) Cheju Ion Balance (R_1)

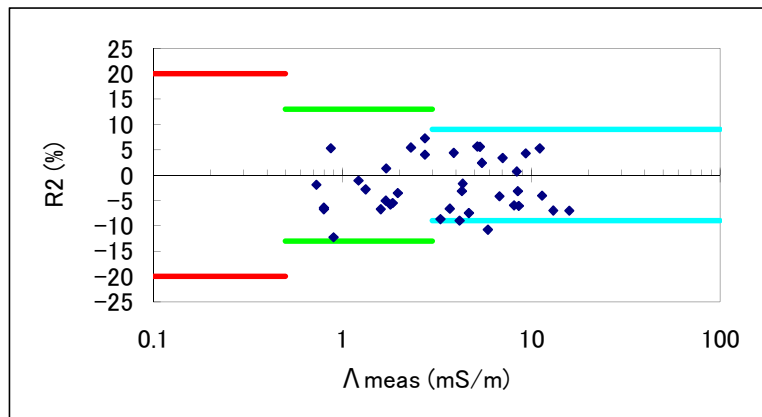


Fig. 3.38 b) Kanhwa Conductivity Agreement (R_2)

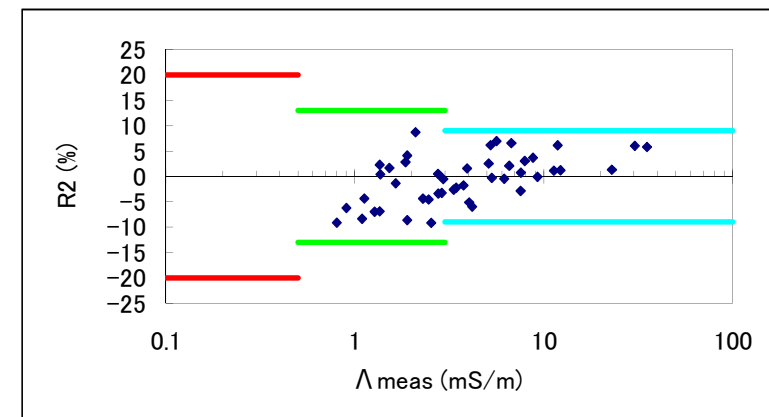


Fig. 3.39 b) Cheju Conductivity Agreement (R_2)

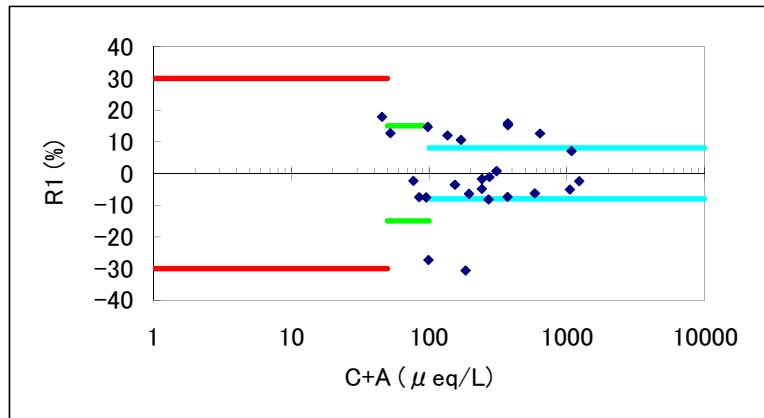


Fig. 3.40 a) Imsil Ion Balance (R_1)

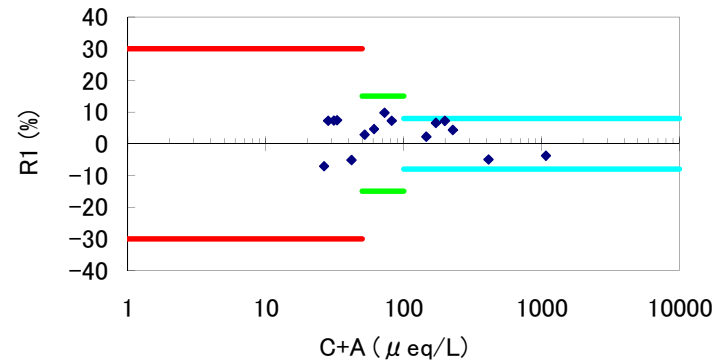


Fig. 3.41 a) Mondy Ion Balance (R_1)

Calculated including HCO_3^- , NO_2^- and Br^-

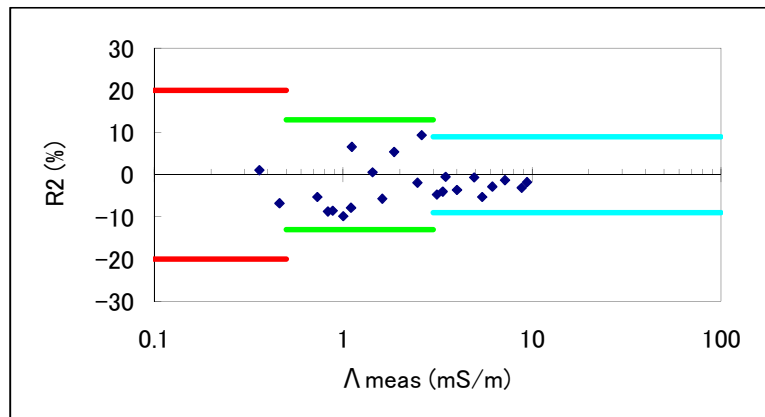


Fig 3.40 b) Imsil Conductivity Agreement (R_2)

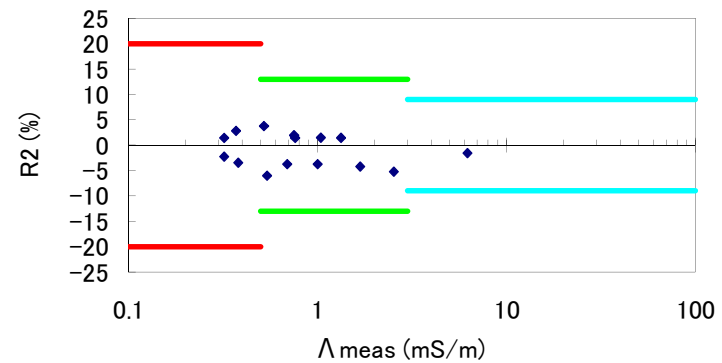


Fig 3.41 b) Mondy Conductivity Agreement (R_2)

Calculated including HCO_3^- , NO_2^- and Br^-

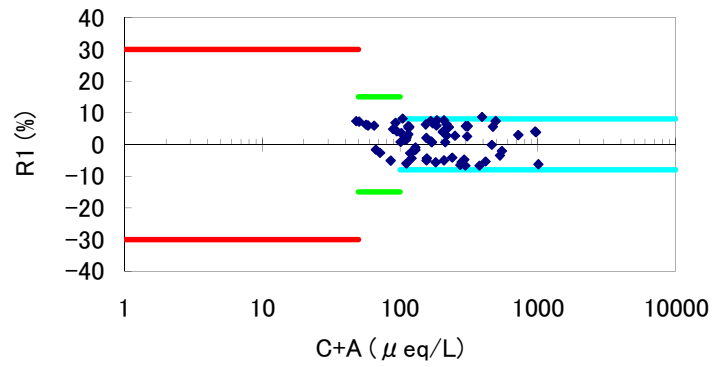


Fig. 3.42 a) Listvyanka Ion Balance (R_1)

Calculated including HCO_3^- , NO_2^- , Br^- and F^-

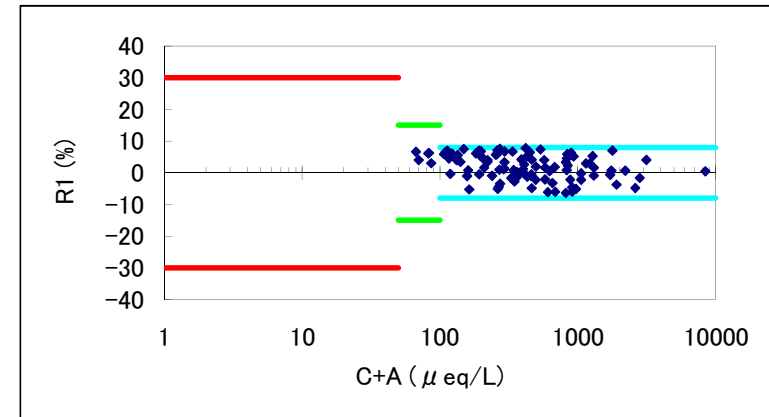


Fig. 3.43 a) Irkutsk Ion Balance (R_1)

Calculated including HCO_3^- , NO_2^- , Br^- and F^-

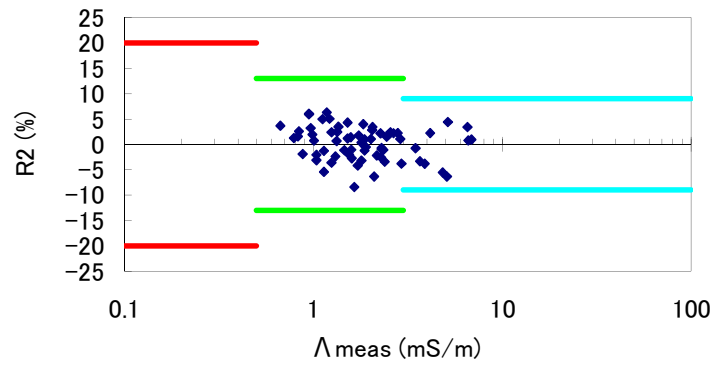


Fig. 3.42 b) Listvyanka Conductivity Agreement (R_2)

Calculated including HCO_3^- , NO_2^- , Br^- and F^-

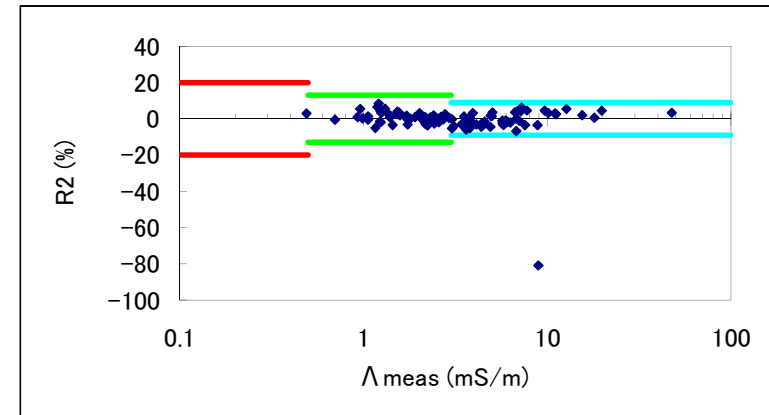


Fig. 3.43 b) Irkutsk Conductivity Agreement (R_2)

Calculated including HCO_3^- , NO_2^- , Br^- and F^-

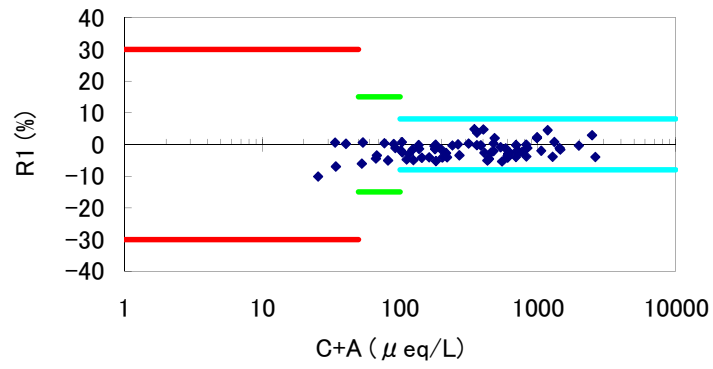


Fig. 3.44 a) Primorskaya Ion Balance (R_1)
Calculated including HCO_3^- , NO_2^- and Br^-

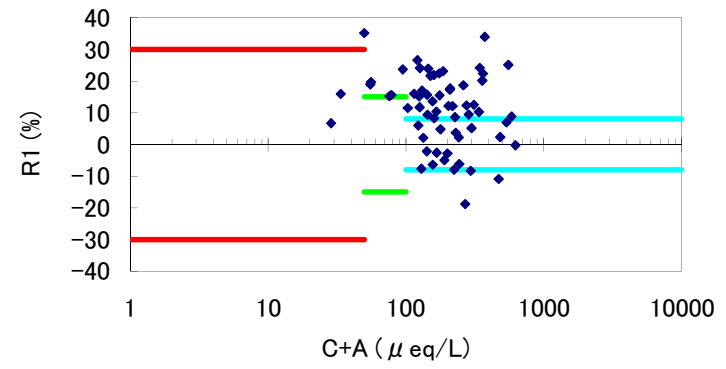


Fig. 3.45 a) Bangkok Ion Balance (R_1)

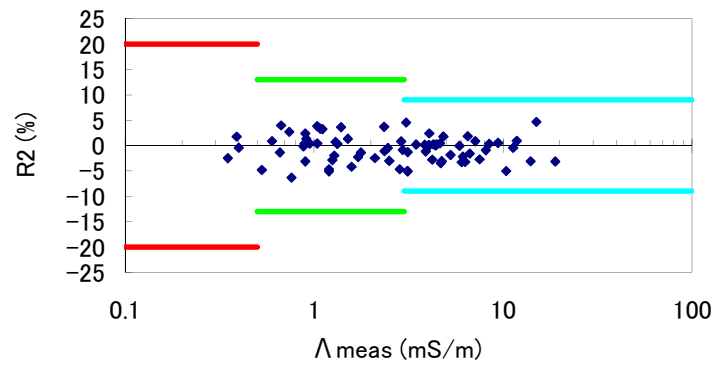


Fig. 3.44 b) Primorskaya Conductivity Agreement (R_2)
Calculated including HCO_3^- , NO_2^- and Br^-

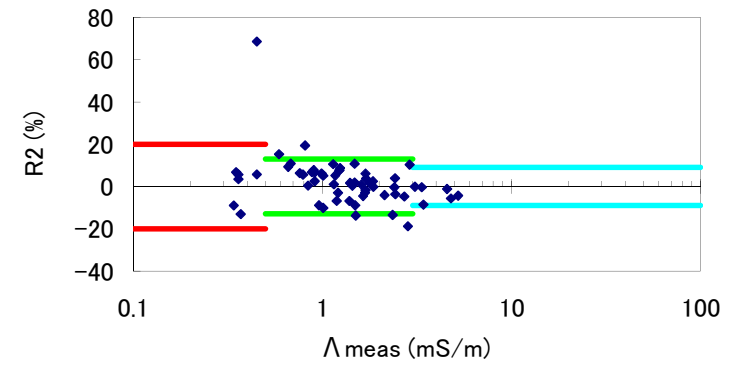


Fig. 3.45 b) Bangkok Conductivity Agreement (R_2)

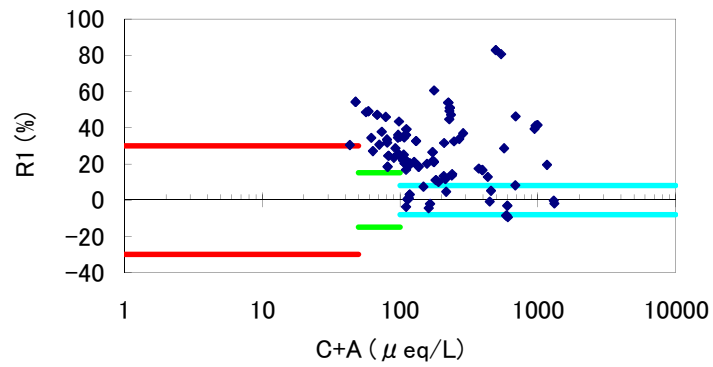


Fig. 3.46 a) Samutprakarn Ion Balance (R_1)

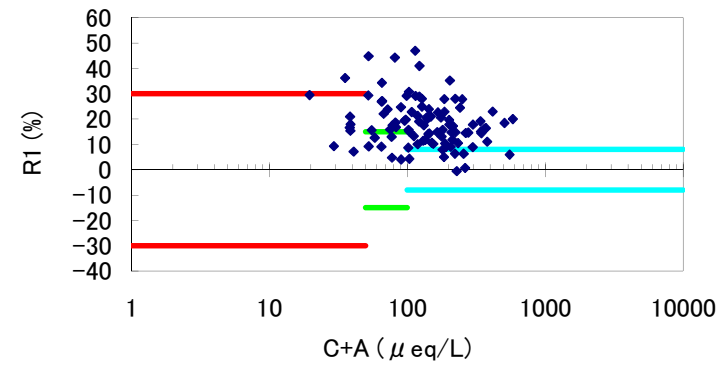


Fig. 3.47 a) Patumthani Ion Balance (R_1)

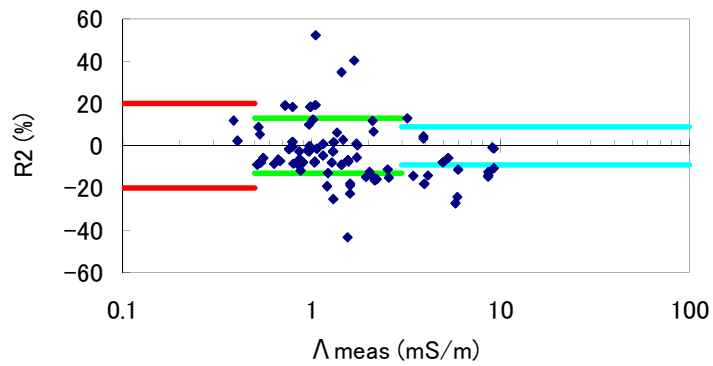


Fig. 3.46 b) Samutprakarn Conductivity Agreement (R_2)

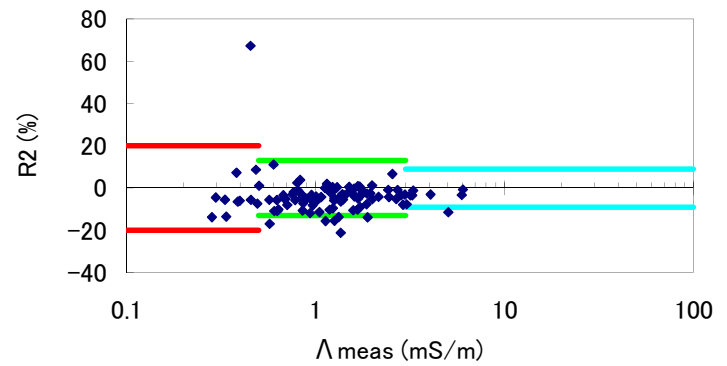


Fig. 3.47b) Patumthani Conductivity Agreement (R_2)

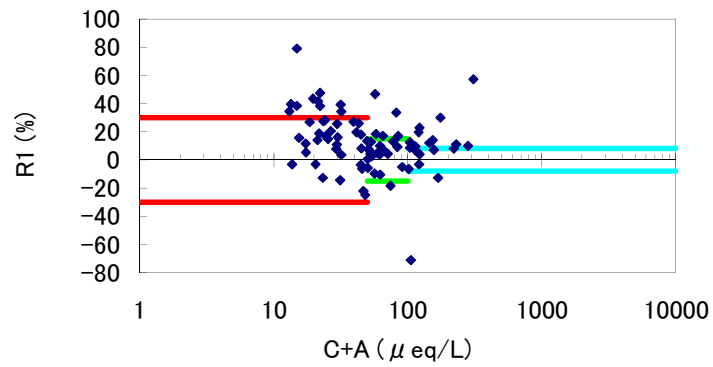


Fig. 3.48 a) Khanchanaburi Ion Balance (R_1)

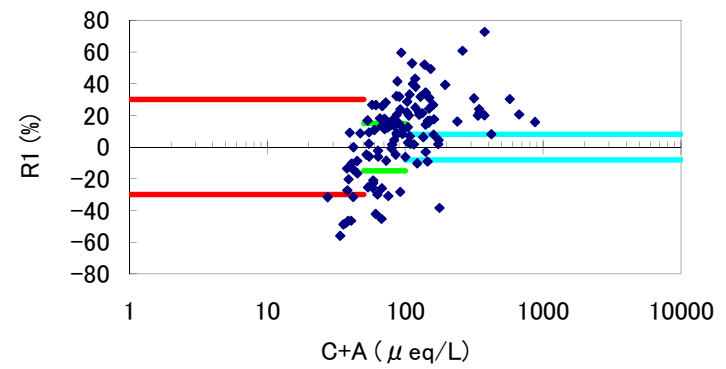


Fig. 3.49 a) Chiang Mai (Mae Hia) Ion Balance (R_1)

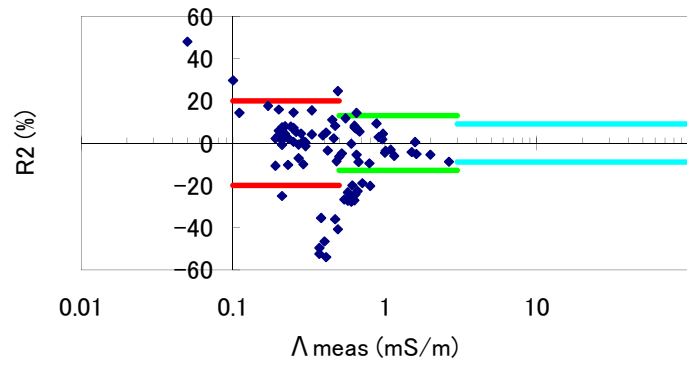


Fig. 3.48 b) Khanchanaburi Conductivity Agreement (R_2)

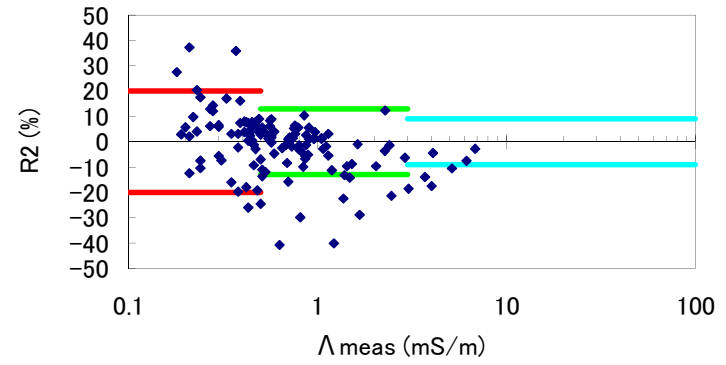


Fig. 3.49 b) Chiang Mai (Mae Hia) Conductivity Agreement (R_2)

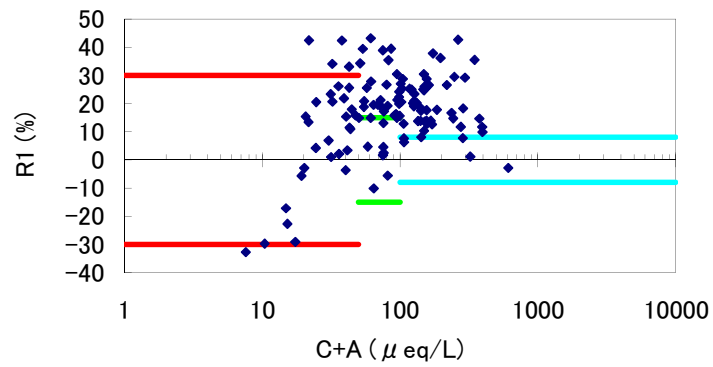


Fig. 3.50 a) Nakhon Ratchasima Ion Balance (R_1)

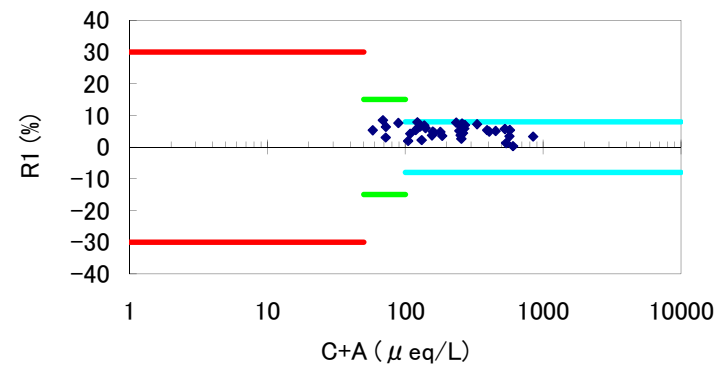


Fig. 3.51 a) Hanoi Ion Balance (R_1)

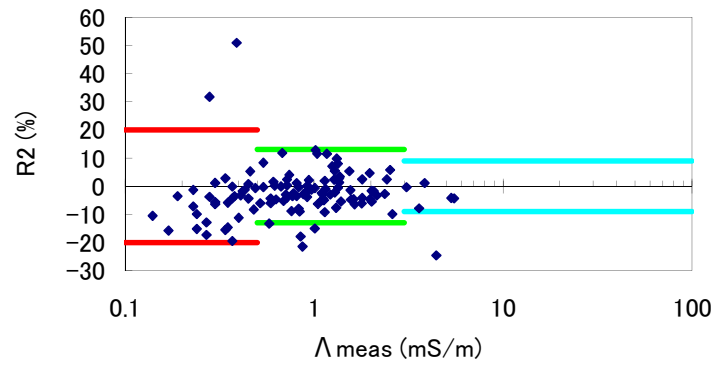


Fig. 3.50 b) Nakhon Ratchasima Conductivity Agreement (R_2)

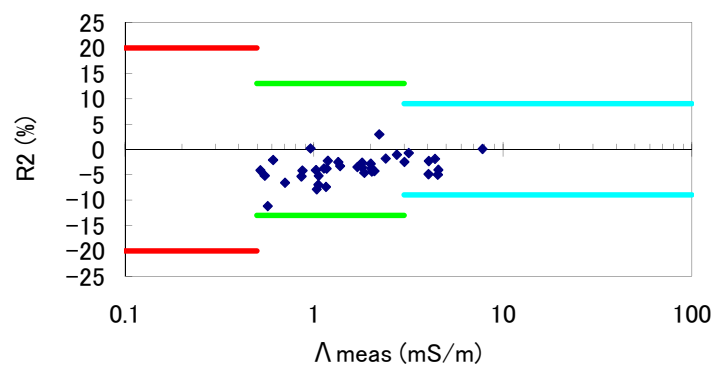


Fig. 3.51 b) Hanoi Conductivity Agreement (R_2)

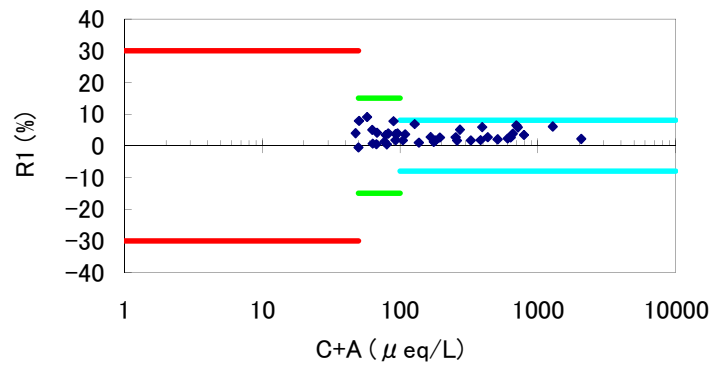


Fig. 3.52 a) Hoa Binh Ion Balance (R_1)

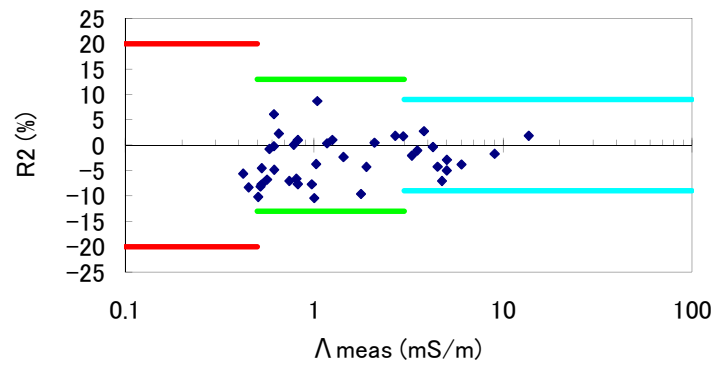


Fig. 3.52 b) Hoa Binh Conductivity Agreement (R_2)

Appendix Results of the additional items in 2008

Appendix Table 1 Concentration, deposition and data completeness of F⁻

Volume-weighted mean concentrations (Monthly)														unit : $\mu\text{mol/L}$	
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
China	Haifu	30.1	11.9	14.0	9.6	7.2	5.0	7.7	7.9	7.6	6.6	7.9	14.9	8.2	
	Jinyunshan	17.0	11.2	5.9	7.3	6.2	4.1	6.2	2.7	4.5	3.1	5.4	5.5	5.1	
	Hongen	17.2	9.4	22.1	10.9	9.5	1.4	5.9	<1.0	5.8	12.2	--	23.7	7.5	
	Xiaoping	13.2	5.4	43.9	10.7	9.7	2.6	6.1	9.8	10.3	<1.0	2.0	108.0	7.9	
Russia	Listvyanka	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	Irkutsk	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Viet Nam	Hanoi	9.6	11.4	9.2	2.6	4.6	6.1	3.7	4.5	<1.0	5.4	<1.0	16.8	4.2	
	Hoa Binh	9.7	13.1	24.1	26.9	3.2	3.7	3.3	1.4	<1.0	<1.0	<1.0	11.3	2.8	
Wet deposition (Monthly)														unit: $\text{mmol m}^{-2}\text{month}^{-1}$ or $\text{mmol m}^{-2}\text{year}^{-1}$	
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
China	Haifu	0.44	0.38	0.59	0.70	0.94	1.21	0.49	0.95	0.52	0.94	0.32	0.44	8.23	
	Jinyunshan	0.51	0.43	0.36	0.87	0.65	0.89	0.50	0.62	0.49	0.42	0.24	0.27	6.24	
	Hongen	0.88	0.38	0.48	0.98	1.08	0.36	0.93	0.03	0.11	1.69	0.00	0.18	7.10	
	Xiaoping	0.42	0.11	2.77	1.17	1.25	1.54	2.24	3.91	1.66	0.05	0.02	0.68	15.81	
Russia	Listvyanka	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Irkutsk	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Viet Nam	Hanoi	0.30	0.10	0.18	0.31	0.84	1.42	1.77	1.09	0.19	3.82	0.02	0.19	9.51	
	Hoa Binh	0.33	0.04	0.44	1.13	0.83	1.01	1.12	0.25	0.04	0.15	0.00	0.22	5.53	
Data completeness (Monthly)														%TP	
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
China	Haifu	97	100	97	100	100	100	100	100	100	100	100	100	100	
	Jinyunshan	98	100	99	100	100	100	100	100	100	100	100	100	100	
	Hongen	100	100	100	100	100	100	100	100	100	100	--	100	100	
	Xiaoping	100	100	100	100	100	100	100	100	100	100	100	100	100	
Russia	Listvyanka	--	100	100	100	100	100	100	100	100	100	100	100	97	
	Irkutsk	100	100	100	100	100	100	100	85	95	35	87	94	93	
Viet Nam	Hanoi	100	89	92	100	99	100	100	100	93	8	100	100	70	
	Hoa Binh	99	43	100	100	100	100	100	100	100	100	99	100	100	

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m^2 because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET
(%PCL<80% or %TP<80%)

Appendix Table 2 Concentration, deposition and data completeness of Br⁻

Volume-weighted mean concentrations (Monthly)														unit : $\mu\text{mol/L}$
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Russia	Mondy	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0
	Listvyanka	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Irkutsk	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Primorskaya	<1.0	*	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Wet deposition(Monthly)														unit: $\text{mmol m}^{-2}\text{month}^{-1}$ or $\text{mmol m}^{-2}\text{year}^{-1}$
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Russia	Mondy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Listvyanka	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Irkutsk	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Primorskaya	0.00	*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Data completeness (Monthly)														%TP
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Russia	Mondy	--	--	--	100	100	100	99	100	100	100	100	--	100
	Listvyanka	--	100	100	100	100	100	100	100	100	100	100	100	100
	Irkutsk	100	100	100	100	100	100	100	100	100	100	100	100	100
	Primorskaya	70	0	100	100	99	100	100	99	95	99	96	98	99

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m^2 because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Appendix Table 2 Concentration, deposition and data completeness of NO₂⁻

Volume-weighted mean concentrations (Monthly)													unit : $\mu\text{mol/L}$		
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
Philippines	Metro Manila	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	*	*	<1.0	
	Los Banos	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	*	*	<1.0	
	Mt. Sto. Tomas	<1.0	<1.0	3.4	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	1.3	--	<1.0	
Russia	Mondy	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0	
	Listvyanka	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	Irkutsk	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	Primorskaya	<1.0	*	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Wet deposition(Monthly)													unit: $\text{mmol m}^{-2}\text{month}^{-1}$ or $\text{mmol m}^{-2}\text{year}^{-1}$		
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
Philippines	Metro Manila	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*	*	0.00	
	Los Banos	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*	*	0.00	
	Mt. Sto. Tomas	0.00	0.00	0.19	0.07	0.00	0.00	0.00	0.92	0.00	0.00	0.10	0.00	1.29	
Russia	Mondy	0.00	0.00	0.00	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	0.00	0.05	
	Listvyanka	0.00	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.06	
	Irkutsk	<0.01	<0.01	<0.01	<0.01	0.03	0.01	0.02	0.03	0.02	0.02	<0.01	<0.01	0.17	
	Primorskaya	0.00	*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Data completeness (Monthly)													%TP		
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
Philippines	Metro Manila	100	100	100	100	79	100	100	85	100	74	0	0	82	
	Los Banos	90	89	84	98	71	99	100	98	100	93	0	0	76	
	Mt. Sto. Tomas	95	100	100	100	100	100	100	100	100	96	100	--	100	
Russia	Mondy	--	--	--	100	100	100	99	100	100	100	100	--	100	
	Listvyanka	--	100	100	100	100	100	100	100	100	100	100	100	100	
	Irkutsk	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Primorskaya	70	0	100	100	99	100	100	99	95	99	96	98	99	

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m^2 because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Appendix Table 4 Concentration, deposition and data completeness of HCO₃⁻

Volume-weighted mean concentrations (Monthly)													unit : $\mu\text{mol/L}$	
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Russia	Mondy	--	--	--	321.7	29.6	<1.0	1.5	<1.0	1.0	6.3	39.7	--	11.7
	Listvyanka	--	3.3	<1.0	51.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1
	Irkutsk	120.7	74.5	62.3	211.6	43.1	<1.0	1.7	7.6	29.5	95.2	24.7	92.5	26.3
	Primorskaya	2.0	*	22.9	8.4	20.1	7.1	3.7	2.7	21.2	3.2	13.8	12.3	10.6
Wet deposition(Monthly)													unit: $\text{mmol m}^{-2}\text{month}^{-1}$ or $\text{mmol m}^{-2}\text{year}^{-1}$	
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Russia	Mondy	0.00	0.00	0.00	1.64	0.42	0.00	0.12	0.00	0.03	0.08	0.12	0.00	2.42
	Listvyanka	0.00	0.04	<0.01	0.35	<0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41
	Irkutsk	0.89	0.70	0.69	2.24	2.06	0.02	0.21	0.61	1.90	2.91	0.46	1.17	13.87
	Primorskaya	<0.01	*	1.61	0.55	1.75	0.35	0.48	0.15	0.46	0.15	0.13	0.22	5.85
Data completeness (Monthly)													%TP	
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Russia	Mondy	--	--	--	100	100	100	99	100	100	100	100	--	100
	Listvyanka	--	100	100	100	100	100	100	100	100	100	100	100	100
	Irkutsk	100	100	100	100	100	100	100	100	100	100	100	100	100
	Primorskaya	70	0	100	100	99	100	100	99	95	99	96	98	99

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m^2 because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Appendix Table 5 Concentration, deposition and data completeness of Formic Acid

Volume-weighted mean concentrations (Monthly)														unit : $\mu\text{mol/L}$
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Malaysia	Petaling Jaya	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Tanah Rata	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Danum Valley	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Kuching	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Thailand	Bangkok	2.4	1.1	1.3	9.4	3.6	<1.0	2.5	3.5	1.2	4.0	22.8	--	3.9
	Samutprakarn	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0
	Patumthani	2.0	7.1	77.8	14.2	<1.0	4.3	1.7	4.7	1.5	3.8	5.9	--	3.6
	Khanchanaburi	--	*	32.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	1.6
	Chiang Mai	5.0	8.9	39.9	8.6	4.4	3.0	<1.0	1.9	2.2	<1.0	<1.0	16.3	2.6
	Nakhon Ratchasima	85.3	15.4	3.9	12.8	2.0	8.3	4.8	3.9	1.6	3.3	3.2	*	4.5
Wet deposition(Monthly)														unit: $\text{mmol m}^{-2}\text{month}^{-1}$ or $\text{mmol m}^{-2}\text{year}^{-1}$
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Malaysia	Petaling Jaya	0.01	<0.01	0.00	0.00	0.00	0.00	0.00	0.00	<0.01	0.03	0.00	<0.01	0.06
	Tanah Rata	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.01	0.03	0.00	0.00	0.02	0.15
	Danum Valley	<0.01	0.00	0.00	<0.01	0.04	0.00	<0.01	0.03	0.02	0.00	0.00	0.01	0.12
	Kuching	<0.01	0.00	0.00	<0.01	0.01	0.00	<0.01	0.03	<0.01	0.00	0.00	<0.01	0.08
Thailand	Bangkok	0.11	0.09	0.03	1.98	0.77	<0.01	0.43	0.30	0.42	1.57	1.19	0.00	6.91
	Samutprakarn	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Patumthani	<0.01	0.51	0.04	1.31	0.24	1.04	0.33	0.60	0.25	1.03	0.62	0.00	5.97
	Khanchanaburi	0.00	*	2.38	0.02	0.00	<0.01	<0.01	0.01	<0.01	0.03	<0.01	0.00	3.15
	Chiang Mai	0.10	0.06	0.14	0.78	0.88	0.33	0.00	0.42	0.45	0.07	0.00	0.08	3.31
	Nakhon Ratchasima	0.36	0.40	0.55	1.49	0.53	1.22	0.26	0.42	0.75	1.15	0.13	*	7.70
Data completeness (Monthly)														%TP
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Malaysia	Petaling Jaya	100	100	100	100	100	100	100	100	100	100	100	100	100
	Tanah Rata	100	100	100	100	100	100	100	100	100	100	100	100	100
	Danum Valley	100	100	100	100	100	100	100	100	100	100	100	100	100
	Kuching	100	100	100	100	100	100	100	100	100	100	100	100	100
Thailand	Bangkok	100	100	100	100	100	100	100	100	100	100	100	--	100
	Samutprakarn	100	99	91	100	100	99	95	98	100	99	100	--	99
	Patumthani	100	100	100	100	100	100	100	100	100	100	100	--	100
	Khanchanaburi	--	0	100	37	69	83	92	92	71	67	90	--	77
	Chiang Mai	100	100	100	100	100	100	100	100	100	100	100	100	100
	Nakhon Ratchasima	100	100	100	99	98	100	77	45	79	86	8	0	85

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m^2 because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Appendix Table 6 Concentration, deposition and data completeness of Acetic Acid

Volume-weighted mean concentrations (Monthly)		unit : $\mu\text{mol/L}$												
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Malaysia	Petaling Jaya	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Tanah Rata	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Danum Valley	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Kuching	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Thailand	Bangkok	3.7	2.3	<1.0	7.1	4.0	5.1	4.0	7.6	2.4	3.7	14.8	--	4.4
	Samutprakarn	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0
	Patumthani	3.1	5.7	<1.0	4.8	<1.0	2.5	1.8	2.6	1.2	4.1	4.9	--	2.6
	Khanchanaburi	--	*	19.3	<1.0	13.2	<1.0	1.4	<1.0	<1.0	<1.0	<1.0	--	3.6
	Chiang Mai	2.2	17.9	57.3	19.6	6.7	4.5	<1.0	2.2	<1.0	<1.0	<1.0	<1.0	3.9
	Nakhon Ratchasima	54.3	14.5	1.3	3.6	1.4	4.4	4.2	2.6	2.2	3.9	2.4	*	3.1
Wet deposition(Monthly)		unit: $\text{mmol m}^{-2}\text{month}^{-1}$ or $\text{mmol m}^{-2}\text{year}^{-1}$												
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Malaysia	Petaling Jaya	0.03	0.38	0.00	0.00	0.00	0.00	<0.01	0.00	0.01	0.02	0.03	<0.01	0.50
	Tanah Rata	0.00	0.01	0.00	0.02	0.03	0.00	0.03	<0.01	0.00	<0.01	0.03	0.05	0.19
	Danum Valley	0.00	0.00	0.00	0.00	0.00	0.00	<0.01	0.02	0.00	0.00	0.00	0.00	0.03
	Kuching	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.03
Thailand	Bangkok	0.17	0.17	0.02	1.48	0.85	0.74	0.71	0.66	0.86	1.43	0.77	0.00	7.87
	Samutprakarn	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Patumthani	<0.01	0.41	0.00	0.45	0.27	0.60	0.36	0.34	0.20	1.12	0.51	0.00	4.28
	Khanchanaburi	0.00	*	1.43	0.07	4.50	0.14	0.30	0.32	0.12	0.17	0.02	0.00	7.03
	Chiang Mai	0.04	0.12	0.19	1.78	1.35	0.49	0.08	0.50	0.17	0.22	0.07	<0.01	5.03
	Nakhon Ratchasima	0.23	0.38	0.17	0.41	0.39	0.65	0.23	0.28	1.02	1.36	0.10	*	5.32
Data completeness (Monthly)		%TP												
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Malaysia	Petaling Jaya	100	100	100	100	100	100	100	100	100	100	100	100	100
	Tanah Rata	100	100	100	100	100	100	100	100	100	100	100	100	100
	Danum Valley	100	100	100	100	100	100	100	100	100	100	100	100	100
	Kuching	100	100	100	100	100	100	100	100	100	100	100	100	100
Thailand	Bangkok	100	100	100	100	100	100	100	100	100	100	100	--	100
	Samutprakarn	100	99	91	100	100	99	95	98	100	99	100	--	99
	Patumthani	100	100	100	100	100	100	100	100	100	100	100	--	100
	Khanchanaburi	--	0	100	37	69	83	92	92	71	67	90	--	77
	Chiang Mai	100	100	100	100	100	100	100	100	100	100	100	100	100
	Nakhon Ratchasima	100	100	100	99	98	100	77	45	79	86	8	0	85

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m^2 because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Appendix Table 7 Concentration, deposition and data completeness of Oxalic Acid

Volume-weighted mean concentrations (Monthly)														unit : $\mu\text{mol/L}$
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Malaysia	Petaling Jaya	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Tanah Rata	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Danum Valley	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Kuching	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Wet deposition(Monthly)														unit: $\text{mmol m}^{-2}\text{month}^{-1}$ or $\text{mmol m}^{-2}\text{year}^{-1}$
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Malaysia	Petaling Jaya	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	<0.01	0.03
	Tanah Rata	0.00	0.01	0.00	0.00	0.02	0.00	0.00	<0.01	0.00	0.00	0.00	<0.01	0.04
	Danum Valley	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<0.01	0.00	0.00	0.00	0.00	<0.01
	Kuching	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<0.01	0.00	0.00	0.00	0.00	<0.01
Data completeness (Monthly)														%TP
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Malaysia	Petaling Jaya	100	100	100	100	100	100	100	100	100	100	100	100	100
	Tanah Rata	100	100	100	100	100	100	100	100	100	100	100	100	100
	Danum Valley	100	100	100	100	100	100	100	100	100	100	100	100	100
	Kuching	100	100	100	100	100	100	100	100	100	100	100	100	100

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m^2 because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

Appendix Table 8 Concentration, deposition and data completeness of PO₄³⁻

Volume-weighted mean concentrations (Monthly)														unit : µmol/L	
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
Thailand	Bangkok	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	1.1	--	<1.0	
	Samutprakarn	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0	
	Patumthani	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0	
	Khanchanaburi	--	*	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	1.3	--	<1.0	
	Chiang Mai	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	30.9	<1.0
	Nakhon Ratchasima	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	*	<1.0
Wet deposition(Monthly)														unit: mmol m ⁻² month ⁻¹ or mmol m ⁻² year ⁻¹	
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
Thailand	Bangkok	<0.01	<0.01	<0.01	0.02	0.02	0.07	0.02	<0.01	0.15	0.45	0.06	0.00	0.81	
	Samutprakarn	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Patumthani	<0.01	<0.01	<0.01	0.02	0.00	0.03	<0.01	0.02	<0.01	<0.01	<0.01	0.00	0.08	
	Khanchanaburi	0.00	*	0.02	<0.01	0.05	0.02	<0.01	0.02	0.39	0.18	0.04	0.00	0.69	
	Chiang Mai	0.00	0.00	0.00	0.03	0.03	<0.01	<0.01	0.13	<0.01	0.35	0.00	0.15	0.70	
	Nakhon Ratchasima	<0.01	<0.01	<0.01	<0.01	0.02	0.03	<0.01	0.00	0.09	<0.01	<0.01	*	0.18	
Data completeness (Monthly)														%TP	
Country	Name of sites	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
Thailand	Bangkok	100	100	100	100	100	100	100	100	100	100	100	--	100	
	Samutprakarn	100	99	91	100	100	99	95	98	100	99	100	--	99	
	Patumthani	100	100	100	100	100	100	100	100	100	100	100	--	100	
	Khanchanaburi	--	0	100	37	69	83	92	71	67	90	--	--	77	
	Chiang Mai	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Nakhon Ratchasima	100	100	100	99	98	100	77	45	79	86	8	0	85	

[--] for averages and completeness: Precipitation was 0mm.

[0.00] for deposition: The deposition was 0 mmol/m² because precipitation was 0 mm.

[*] for averages and deposition: The constituent was not measured although precipitation was not 0 mm. (%TP=0%)

[**] for all: Precipitation was not measured. (%PCL=0%)

Data in hatched column for averages and deposition: Rejected monthly (annual) value by the criteria of EANET

(%PCL<80% or %TP<80%)

CHAPTER 4

Dry Deposition Monitoring

(Air Concentration)

4. Dry Deposition (Air Concentration) Monitoring

4.1 Method

Automatic monitoring methods and filter pack method were mainly used to implement the dry deposition (air concentration) monitoring in 2008. The monitoring items were selected, taking into account priority of the chemical species defined in the “Strategy Paper for Future Direction of Dry Deposition Monitoring of EANET (Second Edition, 2005)”.

4.1.1 Automatic Monitoring Method

In the “Strategy Paper for Future Direction of Dry Deposition Monitoring of EANET”, it was mentioned that the first priority chemical species for dry deposition monitoring, namely SO₂, NO, NO₂ (urban), O₃, and PM could be monitored by use of automatic monitoring methods. The quality assurance/quality control (QA/QC) program for monitoring SO₂, NO, NO₂ (urban), O₃, and PM using automatic monitors is described in the “QA/QC Program for the Air Concentration Monitoring in East Asia (2001)”.

4.1.2 Filter Pack Method

The filter pack method could be used to determine gaseous substances (SO₂, HNO₃, HCl, NH₃) and particulate matter components (SO₄²⁻, NO₃⁻, Cl⁻, NH₄⁺, Na⁺, K⁺, Mg²⁺, Ca²⁺).

The “Technical Document of Filter Pack Monitoring in East Asia” was endorsed at the Third Session of the Science Advisory Committee (SAC3) held in November 2003. The recommended monitoring method by means of the four-stage filter pack was explained in the technical document. Basic specification of the four-stage filter pack method is shown in [Fig. 4.1](#).

4.1.3 Monitoring Sites

The measurement methods and parameters in each monitoring site for dry deposition (air concentration) monitoring in 2008 are shown in [Table 4.1](#). Automatic monitors were used by China, Japan, Republic of Korea, Russia and Thailand. The individual methods adopted at each site are shown in [Table 4.2](#).

The filter pack methods were used by China, Indonesia, Japan, Malaysia, Mongolia, Philippines, Republic of Korea, Russia, Thailand and Vietnam in 2008.

Preparation of filter pack

Stage	Specification of filter	Collected species
1 st (F0)	PTFE filter (pore size: 0.8 μm, diameter: 47 mm)	Aerosols
2 nd (F1)	Polyamide filter (pore size: 0.45 μm, diameter: 47 mm)	HNO ₃ , SO ₂ , HCl, NH ₃
3 rd (F2)	Impregnated cellulose filter Solution: 6% K ₂ CO ₃ + 2% glycerin	SO ₂ , HCl
4 th (F3)	Impregnated cellulose filter Solution: 5% H ₃ PO ₄ + 2% glycerin	NH ₃



Sampling on site

Air flow rate: approximately 1 liter/minute
Sampling period: one week or two weeks



Pretreatment of filter pack

Stage	Solvent	Extracted species
F0	Extracted by 20 mL of deionized water	SO ₄ ²⁻ , NO ₃ ⁻ , Cl ⁻ , NH ₄ ⁺ , Na ⁺ , K ⁺ , Ca ²⁺ , Mg ²⁺
F1	Extracted by 20 mL of deionized water	SO ₄ ²⁻ , NO ₃ ⁻ , Cl ⁻ , NH ₄ ⁺
F2	Extracted by 20mL of 0.05% H ₂ O ₂	SO ₄ ²⁻ , Cl ⁻
F3	Extracted by 20mL of deionized water	NH ₄ ⁺



Chemical analysis

By Ion Chromatography or other suitable analytical methods

Fig. 4.1 Specification of four-stage filter pack method

Table 4.1 Sampling Method and Parameter for Dry Deposition (Air Concentration) Monitoring in 2008

Country	Name of sites	Characteristics of sites	Method	Parameter
China	Chongqing - Jinyunshan	Rural	AT	SO ₂ , NO, NO _x *, PM ₁₀
	Xiamen - Hongwen	Urban	AT FP	SO ₂ , NO ₂ , PM ₁₀ HNO ₃ , HCl, NH ₃ , PMC
	Zhuhai - Xiang Zhou	Urban	AT	SO ₂ , NO ₂ , PM ₁₀
Indonesia	Jakarta	Urban	PS	SO ₂ , NO ₂
	Serpong	Rural	FP	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC
	Kototabang	Remote	PS	SO ₂ , NO ₂
	Bandung	Urban	PS	SO ₂ , NO ₂
Japan	Rishiri	Remote	AT FP	SO ₂ , NO, NO _x *, O ₃ , PM _{10/2.5} HNO ₃ , HCl, NH ₃ , PMC
	Ochiichi	Remote	AT FP	SO ₂ , NO, NO _x *, O ₃ , PM _{10/2.5} HNO ₃ , HCl, NH ₃ , PMC
	Tappi	Remote	AT FP	SO ₂ , NO, NO _x *, O ₃ , PM ₁₀ HNO ₃ , HCl, NH ₃ , PMC
	Sado-seki	Remote	AT FP	SO ₂ , NO, NO _x *, O ₃ , PM ₁₀ HNO ₃ , HCl, NH ₃ , PMC
	Happo	Remote	AT FP	SO ₂ , NO, NO _x *, O ₃ , PM ₁₀ HNO ₃ , HCl, NH ₃ , PMC
	Ijira	Rural	AT FP	SO ₂ , NO, NO _x *, O ₃ , PM ₁₀ HNO ₃ , HCl, NH ₃ , PMC
	Oki	Remote	AT FP	SO ₂ , NO, NO _x *, O ₃ , PM _{10/2.5} HNO ₃ , HCl, NH ₃ , PMC
	Banryu	Urban	AT FP	SO ₂ , NO, NO ₂ , NO _x , O ₃ , PM ₁₀ HNO ₃ , HCl, NH ₃ , PMC
	Yusuhara	Remote	AT FP	SO ₂ , NO, NO _x *, O ₃ , PM ₁₀ HNO ₃ , HCl, NH ₃ , PMC
	Hedo	Remote	AT FP	SO ₂ , NO, NO _x *, O ₃ , PM ₁₀ HNO ₃ , HCl, NH ₃ , PMC
	Ogasawara	Remote	AT FP	SO ₂ , NO, NO _x *, O ₃ , PM ₁₀ HNO ₃ , HCl, NH ₃ , PMC
	Tokyo	Urban	FP	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC
	Malaysia	Tanah Rata	Remote	FP
Petaling Jaya		Urban	FP	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC
Danum Valley		Remote	FP	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC
Mongolia	Ulaanbaatar	Urban	FP	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC
	Terelj	Remote	FP	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC
Philippines	Metro Manila	Urban	FP	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC
	Los Banos	Rural	FP	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC
	Mt. Sto. Tomas	Remote	FP	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC

Table 4.1 Sampling Method and Parameter for Dry Deposition (Air Concentration) Monitoring in 2008 (continued)

Country	Name of sites	Characteristics of sites	Method	Parameter
Republic of Korea	Kanghwa	Rural	AT	SO ₂ , NO ₂ , O ₃ , PM ₁₀
			FP	HNO ₃ , HCl, NH ₃ , PMC in PM _{2.5}
	Cheju (Kosan)	Remote	AT	SO ₂ , NO ₂ , O ₃ , PM ₁₀
			FP	HNO ₃ , HCl, NH ₃ , PMC in PM _{2.5}
	Imsil	Rural	AT	SO ₂ , NO ₂ , O ₃ , PM ₁₀
			FP	HNO ₃ , HCl, NH ₃ , PMC in PM _{2.5}
Russia	Mondy	Remote	AT	O ₃
			FP	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC
	Listvyanka	Rural	FP	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC
	Irkutsk	Urban	FP	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC
	Primorskaya	Rural	FP	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC
Thailand	Bangkok	Urban	AT	SO ₂ , NO, NO ₂ , NO _x , O ₃ , PM ₁₀
			FP	HNO ₃ , HCl, NH ₃ , PMC
	Samutprakarn	Urban	AT	SO ₂ , NO, NO ₂ , NO _x , O ₃ , PM ₁₀
	Patumthani	Rural	FP	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC
	Khanchanaburi (Vachiralongkorn Dam)	Remote	AT	SO ₂ , NO, NO _x [*] , O ₃ , PM ₁₀
			FP	HNO ₃ , HCl, NH ₃ , PMC
	Chiang Mai (Mae Hia)	Rural	AT	SO ₂ , NO, NO _x [*] , O ₃ , PM ₁₀
			FP	HNO ₃ , HCl, NH ₃ , PMC
	Nakhon Ratchasima	Remote	AT	SO ₂ , NO, NO _x [*] , O ₃ , PM ₁₀
			FP	HNO ₃ , HCl, NH ₃ , PMC
Vietnam	Hanoi	Urban	FP	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC
	Hoa Binh	Rural	FP	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC

(Note 1) AT: Automatic monitor, PS: Passive sampler, FP: Filter pack, PMC: particulate matter components.

(Note 2) NO_x^{*}: NO_x measured by CLD in remote or rural sites.

(Note 3) Monitoring by filter pack method started at Ochiishi in April, 2008.

(Note 4) Purposely monitor for 2 weeks and 4 times per year at Khanchanaburi (Vachiralongkorn Dam) due to the site located in remote area.

Table 4.2 Methods of automatic monitors in 2008

Country	Sites	Parameter			
		SO ₂	NO _x	O ₃	PM ₁₀ (PM _{2.5})
China	Jinyunshan	UVF	CLD	–	β–ray
	Hongwen	DOAS	DOAS	–	TEOM
	Xianzhou	DOAS	DOAS	–	TEOM
Japan	Rishiri	UVF	CLD	UVP	β–ray (TEOM)
	Ochiishi	UVF	CLD	UVP	β–ray (β–ray)
	Tappi	UVF	CLD	UVP	TEOM
	Sado-seki	UVF	CLD	UVP	TEOM
	Happo	UVF	CLD	UVP	β–ray
	Ijira	UVF	CLD	UVP	TEOM
	Oki	UVF	CLD	UVP	TEOM (TEOM)
	Banryu	UVF	CLD	UVP	TEOM
	Yusuhara	UVF	CLD	UVP	β–ray
	Hedo	UVF	CLD	UVP	β–ray
	Ogasawara	UVF	CLD	UVP	β–ray
Republic of Korea	Kanghwa	UVF	CLD	UVP	β–ray
	Cheju (Kosan)	UVF	CLD	UVP	β–ray
	Imsil	UVF	CLD	UVP	β–ray
Russia	Mondy	–	–	UVP	–
Thailand	Bangkok	UVF	CLD	UVP	TEOM
	Samutprakarn	UVF	CLD	UVP	–
	Khanchanaburi	UVF	CLD	UVP	β–ray
	Chiang Mai	UVF	CLD	UVP	TEOM
	Nakhon Ratchasima	UVF	CLD	UVP	TEOM

(Note) UVF: Ultraviolet Fluorescent method, CLD: Chemiluminescence Detection method, UVP: Ultraviolet Photometric method, β–ray: β–ray absorption method, TEOM: Tapered Element Oscillating Microbalance method, DOAS: Differential Optical Absorption Spectroscopy method.

4.2 Results of Monitoring

Monitoring data were summed up into monthly averaged values accompanied with maximum, minimum and data completeness for a month. For the calculations of monthly averages, non-detected data were regarded as zero. Summarized data are presented in [Table 4.3](#) through [Table 4.20](#).

In these tables, terms and abbreviations indicate the followings:

Mean	:	monthly or annual arithmetic average values,
Max-d	:	maximum values of daily data,
Min-d	:	minimum values of daily data,
Max-10d	:	maximum values of 10 days term data,
Min-10d	:	minimum values of 10 days term data,
Max-w	:	maximum values of weekly data,
Min-w	:	minimum values of weekly data,
Max-2w	:	maximum values of biweekly data,
Min-2w	:	minimum values of biweekly data,
Max-m	:	maximum values of monthly data,
Min-m	:	minimum values of monthly data,
%	:	monthly or annual percentages of period of available data,

For information on long-term trends of air concentrations, annual averages of gases and particulate matter concentrations from 2000 to 2008 are summarized in [Table 4.21](#) through [Table 4.38](#).

In the [Table 4.3](#) though [Table 4.38](#), ppb unit was used for gases and $\mu\text{g}/\text{m}^3$ unit was used for particulate matter. Approximate conversion ratios from ppb to $\mu\text{g}/\text{m}^3$, which are based on 20 °C, 1 atm, were shown in [Table 4.39](#).

Detection limits for individual species depend on specification of instrument or procedures of sampling and analysis. NC set up expedient detection limits as shown in [Table 4.40](#) taking into account methods adopted by each country. Data under the detection limit were treated as “N.D.” in the tables. Regarding the particulate matter components measured by filter pack method, the detection limits for particulate matter components were determined as $0.01 \mu\text{g}/\text{m}^3$ for sampled air volume of 20.16 m^3 considering the value of 3σ , where σ is the standard deviation of blank values obtained at Japan sites since 2003.

Table 4.3 SO₂

Unit : ppb			2008												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
China	Jinyunshan	Mean	26.0	25.3	16.9	18.1	15.2	12.2	8.9	7.2	8.4	5.8	6.1	9.6	13.3	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-d	48.4	51.0	40.5	34.1	42.8	33.4	21.8	16.1	20.3	11.3	14.3	34.9	51.0	
		Min-d	6.0	10.1	6.0	5.6	3.8	3.0	3.4	0.8	0.8	1.5	1.5	1.5	1.5	0.8
	Hongwen	Mean	13.3	9.1	16.4	11.4	8.9	5.4	5.9	6.0	6.7	7.2	7.8	11.1	9.1	
		%	100	100	94	100	100	100	100	100	100	100	100	100	99	
		Max-d	24.0	18.0	53.3	18.8	18.0	16.9	18.4	10.9	18.0	15.8	13.1	18.4	53.3	
		Min-d	6.4	3.4	8.6	1.9	1.5	0.8	0.8	0.8	2.6	1.9	3.0	7.5	0.8	
	Xiang Zhou	Mean	9.1	7.4	8.9	6.6	4.7	3.1	2.8	3.3	5.5	4.8	9.1	13.4	6.6	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-d	15.4	12.0	19.9	13.1	9.4	8.6	5.6	8.3	11.6	8.6	16.9	30.0	30.0	
		Min-d	4.5	4.1	5.6	3.0	1.9	1.5	1.5	1.5	1.5	1.5	3.0	5.6	1.5	
Indonesia	Jakarta	Mean	7.1	6.0	5.3	4.7	6.1	7.2	6.8	4.2	8.0	18.0	8.1	7.0	7.4	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	12.8	10.0	10.4	6.7	8.4	19.2	9.6	5.4	15.0	23.3	13.0	16.3	23.3	
		Min-w	1.8	1.6	3.3	3.3	4.4	1.2	3.1	1.3	4.7	10.3	1.4	2.0	1.2	
	Serpong	Mean	1.6	0.7	3.1	3.7	0.6	2.1	2.0	1.7	1.8	0.8	0.9	0.7	1.6	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	2.3	0.9	5.0	5.4	0.8	2.1	2.1	2.7	1.8	1.0	1.1	0.7	5.4	
		Min-2w	0.8	0.5	1.2	2.1	0.4	2.1	1.9	0.7	1.8	0.7	0.7	0.6	0.4	
	Kototabang	Mean	4.7	8.7	9.8	3.7	6.3	4.1	3.7	2.9	4.0	6.5	10.5	7.2	6.3	
		%	100	100	100	100	100	66	25	100	100	100	100	100	92	
		Max-w	6.4	18.5	14.4	5.1	10.0	4.4	3.7	4.5	4.5	7.0	14.6	12.0	18.5	
		Min-w	2.8	3.9	4.7	2.6	3.8	3.6	3.7	1.6	3.7	5.5	6.3	2.4	1.6	
Bandung	Mean	4.1	4.8	3.0	5.9	1.0	2.5	3.2	1.4	1.0	1.3	1.2	3.2	2.7		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	4.5	5.0	3.3	6.3	1.9	3.3	5.1	1.9	1.2	1.4	1.3	3.5	6.3		
	Min-2w	3.8	4.7	2.8	5.5	N.D.	1.7	1.2	1.0	0.8	1.1	1.0	2.9	N.D.		
Japan	Rishiri	Mean	0.5	0.3	0.2	0.4	0.1	0.2	N.D.	N.D.	N.D.	0.1	0.1	0.4	0.5	0.2
		%	82	97	98	98	98	98	98	98	97	74	96	98	94	
		Max-d	2.7	1.0	0.9	1.3	0.6	1.2	0.6	0.3	0.4	0.5	2.1	1.3	2.7	
		Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Ochiishi	Mean	0.3	0.2	0.1	N.D.	0.1	N.D.	N.D.	0.2	0.2	0.2	0.3	0.3	0.2	
		%	97	97	97	98	94	96	99	99	97	89	92	96	96	
		Max-d	1.0	0.6	0.5	0.5	0.4	0.2	0.4	0.5	0.5	0.5	0.9	0.7	1.0	
		Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tappi	Mean	0.5	0.8	0.6	0.5	0.6	0.4	0.4	0.2	0.2	0.3	0.3	0.4	0.4	
		%	99	99	99	99	99	92	99	98	99	98	98	99	98	
		Max-d	2.9	4.2	2.3	1.4	2.0	1.1	2.2	0.7	0.4	0.8	1.0	2.5	4.2	
		Min-d	N.D.	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.1	N.D.	
Sado-seki	Mean	0.8	0.6	0.8	0.4	0.5	0.2	0.1	0.2	0.2	0.5	0.4	0.6	0.4		
	%	95	97	96	93	98	98	98	96	98	99	90	98	96		
	Max-d	6.9	2.4	2.8	1.4	3.5	0.6	0.5	1.6	0.7	2.6	1.0	1.8	6.9		
	Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		
Happo	Mean	1.1	0.6	1.3	0.6	0.7	0.3	0.1	0.4	0.5	0.8	0.5	0.6	0.6		
	%	99	99	99	99	99	99	87	88	98	99	99	90	96		
	Max-d	5.4	3.5	6.9	3.1	2.9	2.1	0.6	2.8	3.0	6.6	2.1	1.3	6.9		
	Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		
Ijira	Mean	0.1	0.1	0.4	0.4	0.4	0.2	0.2	0.1	N.D.	0.1	N.D.	N.D.	0.2		
	%	98	98	99	44	62	98	99	98	98	99	91	98	90		
	Max-d	0.5	0.6	2.5	1.6	1.3	1.0	0.7	0.5	0.5	0.5	0.2	0.3	2.5		
	Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		
Okii	Mean	1.5	1.4	1.2	0.7	0.8	0.2	0.4	0.2	0.2	0.8	0.9	1.2	0.8		
	%	98	95	97	98	97	98	98	96	94	98	97	92	96		
	Max-d	9.4	6.7	4.7	3.6	6.5	0.9	1.5	1.0	0.9	4.0	3.3	3.1	9.4		
	Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		
Banryu	Mean	1.9	2.1	1.3	1.0	0.8	0.4	0.6	0.4	0.4	0.8	0.9	0.9	1.0		
	%	98	96	96	97	97	97	94	97	96	72	97	74	93		
	Max-d	10.6	13.2	3.3	3.0	3.3	1.5	1.6	1.5	1.1	3.1	2.6	2.2	13.2		
	Min-d	0.1	N.D.	0.2	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	0.2	0.2	0.3	N.D.		
Yusuhara	Mean	1.9	2.0	1.6	0.9	0.7	0.4	0.4	0.4	0.3	0.6	1.2	1.3	1.0		
	%	98	98	97	98	98	98	98	98	88	98	98	98	97		
	Max-d	9.0	6.6	6.9	2.5	2.0	3.0	2.0	1.3	0.9	2.3	3.3	2.9	9.0		
	Min-d	N.D.	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		
Hedo	Mean	0.5	0.8	0.8	0.5	0.2	N.D.	0.1	N.D.	N.D.	0.1	0.3	0.4	0.3		
	%	98	78	97	98	98	97	98	98	97	98	91	97	95		
	Max-d	4.5	2.6	3.4	3.7	2.1	0.2	1.1	0.2	0.2	0.8	1.1	1.3	4.5		
	Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		
Ogasawara	Mean	0.1	0.1	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		
	%	96	97	97	96	97	97	96	97	94	96	95	96	96		
	Max-d	0.6	0.3	1.0	0.1	0.3	0.1	N.D.	N.D.	0.2	N.D.	N.D.	0.2	1.0		
	Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		
Tokyo	Mean	1.7	1.5	1.8	2.2	2.3	3.0	4.1	2.5	2.4	1.3	1.5	1.6	2.2		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	2.4	2.0	2.2	2.8	2.5	3.9	4.2	3.7	3.1	1.4	1.7	1.7	4.2		
	Min-2w	1.1	1.1	1.4	1.6	2.2	2.2	4.0	1.4	1.6	1.2	1.3	1.4	1.1		

Table 4.3 SO₂

Unit : ppb			2008												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Malaysia	Tanah Rata	Mean	N.D.	N.D.	N.D.	N.D.	0.1	N.D.	N.D.	0.1	0.3	N.D.	N.D.	N.D.	0.1	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	N.D.	0.1	0.2	N.D.	0.2	0.1	0.2	0.2	0.2	0.9	N.D.	N.D.	N.D.	0.9
		Min-w	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Petaling Jaya	Mean	2.3	3.2	2.3	2.1	2.4	2.2	2.0	2.0	0.6	0.3	1.0	1.8	1.9	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	2.9	5.5	2.9	2.2	2.9	2.4	2.7	2.4	1.2	0.9	2.3	2.1	5.5	
		Min-w	1.8	1.8	1.7	2.0	1.1	1.8	1.5	0.5	0.2	N.D.	0.2	1.5	N.D.	
	Danum Valley	Mean	0.2	N.D.	N.D.	0.1	N.D.	N.D.	N.D.	0.2	N.D.	N.D.	N.D.	N.D.	0.1	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.3	0.1	N.D.	0.2	N.D.	0.1	0.1	0.2	0.1	N.D.	N.D.	N.D.	0.3	
		Min-2w	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	
Mongolia	Ulaanbaatar	Mean	-	-	-	-	1.7	1.4	1.7	1.2	2.2	3.5	-	-	1.8	
		%	0	0	0	0	59	100	100	100	100	40	0	0	42	
		Max-w	-	-	-	-	2.6	2.2	2.2	1.9	4.1	4.7	-	-	4.7	
		Min-w	-	-	-	-	1.2	1.1	1.0	0.6	0.6	2.3	-	-	0.6	
	Terej	Mean	1.1	1.2	0.5	0.4	0.4	0.3	0.2	0.1	0.1	0.4	0.4	0.6	0.5	
		%	100	100	100	70	100	100	100	45	100	100	100	100	93	
		Max-2w	1.3	1.6	0.6	0.4	0.4	0.6	0.2	0.1	0.2	0.5	0.5	0.8	1.6	
		Min-2w	0.9	0.8	0.3	0.4	0.2	N.D.	0.1	0.1	N.D.	0.4	0.2	0.2	N.D.	
	Philippines	Metro Manila	Mean	1.0	1.4	0.6	0.5	0.4	0.8	0.8	0.6	0.7	5.1	-	-	1.2
			%	100	100	100	100	100	100	100	55	100	100	0	0	81
			Max-w	2.1	1.9	0.8	0.5	0.6	1.9	1.0	0.8	1.0	17.9	-	-	17.9
			Min-w	0.2	1.0	0.5	0.4	0.1	0.2	0.5	0.3	0.2	0.8	-	-	0.1
Los Banos		Mean	N.D.	0.2	0.2	0.2	0.4	0.5	0.3	0.3	0.9	-	-	-	0.3	
		%	100	100	100	100	100	100	100	100	52	0	0	0	71	
		Max-w	0.1	0.4	0.3	0.2	0.5	0.6	0.4	0.5	1.5	-	-	-	1.5	
		Min-w	N.D.	N.D.	0.1	N.D.	0.3	0.4	0.1	0.2	0.3	-	-	-	N.D.	
Mt. Sto. Tomas		Mean	0.2	0.2	0.4	0.2	1.5	0.3	0.3	0.2	0.3	0.2	N.D.	N.D.	0.4	
		%	100	100	100	100	100	100	100	100	100	100	100	22	94	
		Max-w	0.2	0.2	0.6	0.4	6.4	0.7	0.4	0.3	0.4	0.4	N.D.	N.D.	6.4	
		Min-w	0.1	0.1	N.D.	N.D.	N.D.	0.1	0.2	0.2	0.2	N.D.	N.D.	N.D.	N.D.	
Republic of Korea	Kanghwa	Mean	3.0	4.0	2.0	4.0	3.0	3.0	2.0	2.0	2.0	2.0	3.0	5.0	2.9	
		%	96	99	99	100	98	100	100	82	100	100	100	98	98	
		Max-d	6.0	6.0	3.0	6.0	4.0	7.0	3.0	3.0	3.0	3.0	6.0	10.0	10.0	
		Min-d	1.0	2.0	1.0	3.0	2.0	2.0	1.0	1.0	2.0	2.0	1.0	3.0	1.0	
	Cheju (Kosan)	Mean	5.0	9.0	2.0	2.0	1.0	2.0	1.0	0.0	0.0	1.0	2.0	1.0	2.2	
		%	99	78	97	100	98	96	100	100	94	96	100	99	97	
		Max-d	9.0	13.0	4.0	5.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	13.0	
		Min-d	1.0	4.0	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	
	Imsil	Mean	4.0	5.0	3.0	3.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	-	2.3	
		%	96	100	100	98	99	100	100	100	80	98	53	0	85	
		Max-d	8.0	6.0	4.0	4.0	2.0	1.0	1.0	1.0	2.0	2.0	4.0	-	8.0	
		Min-d	2.0	3.0	2.0	2.0	1.0	0.0	0.0	1.0	1.0	2.0	2.0	-	0.0	
Russia	Mondy	Mean	0.5	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.1	0.5	0.1	0.3	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-m	0.5	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.1	0.5	0.1	0.5	
		Min-m	0.5	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.1	0.5	0.1	0.1	
	Listvianka	Mean	0.7	1.9	2.1	0.9	0.6	0.5	0.9	2.0	0.8	0.9	0.8	2.6	1.2	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.9	3.5	3.1	1.5	0.9	0.6	1.7	3.5	1.3	3.1	1.0	4.4	4.4	
		Min-w	0.5	0.7	1.1	0.6	0.3	0.4	0.1	0.1	0.4	0.2	0.5	0.8	0.1	
	Irkutsk	Mean	0.7	5.9	2.5	0.7	0.7	0.6	2.2	4.1	2.7	2.3	0.8	2.2	2.2	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	1.5	8.8	5.4	1.0	1.1	0.9	2.5	7.0	4.9	3.9	0.9	4.1	8.8	
		Min-w	0.1	3.1	0.3	0.4	0.3	0.3	2.0	1.9	0.8	0.5	0.6	0.3	0.1	
Primorskaya	Mean	1.5	1.4	0.9	1.3	1.1	0.3	0.3	0.4	0.3	0.7	0.7	1.5	0.9		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	1.6	1.6	1.3	1.8	1.5	0.4	0.3	0.6	0.4	0.9	1.1	1.6	1.8		
	Min-2w	1.3	1.3	0.6	0.9	0.7	0.1	0.2	0.2	0.3	0.6	0.3	1.4	0.1		

Table 4.3 SO₂

Unit : ppb			2008												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Thailand	Bangkok	Mean	1.6	0.8	1.4	2.6	2.4	2.7	2.6	2.1	2.1	1.8	2.1	3.1	2.1
		%	48	38	77	97	97	93	97	100	97	87	80	35	79
		Max-d	4.1	1.5	3.0	6.1	4.3	5.9	4.1	3.3	4.5	4.4	4.6	6.7	6.7
		Min-d	0.5	0.4	0.2	1.2	1.0	1.0	1.5	0.7	0.6	0.6	1.0	1.0	0.2
	Samutprakarn	Mean	5.1	4.8	4.2	3.9	5.0	4.9	6.0	4.7	4.6	4.8	5.4	4.1	4.8
		%	100	97	97	93	100	97	100	100	100	97	97	100	98
		Max-d	9.5	11.7	8.8	7.1	8.2	11.2	10.0	9.0	10.2	9.0	8.8	7.3	11.7
		Min-d	2.3	1.4	1.3	1.7	3.0	1.2	2.9	1.6	1.1	1.9	2.6	2.4	1.1
	Patumthani	Mean	1.9	0.4	1.0	1.5	N.D.	0.2	N.D.	0.2	0.4	N.D.	0.2	0.3	0.5
		%	100	62	67	68	30	100	100	100	100	100	100	39	81
		Max-10d	3.0	0.4	1.8	2.0	N.D.	0.4	0.1	0.2	0.5	N.D.	0.2	0.3	3.0
		Min-10d	0.4	0.3	0.2	1.1	N.D.	N.D.	N.D.	0.1	0.3	N.D.	0.2	0.3	N.D.
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	-	0.6	3.1	-	-	0.6	-	-	1.0	-	1.6
		%	0	0	0	10	45	0	0	52	0	0	7	0	10
		Max-d	-	-	-	0.9	3.5	-	-	1.6	-	-	1.3	-	3.5
		Min-d	-	-	-	0.2	1.9	-	-	N.D.	-	-	0.6	-	N.D.
	Chiangmai (Mae Hia)	Mean	0.6	0.7	1.0	0.8	0.8	1.6	0.7	0.5	0.7	0.7	0.7	0.5	0.8
		%	35	45	48	53	32	50	45	58	60	29	67	39	47
		Max-d	2.2	1.6	2.9	2.0	1.6	3.4	1.4	1.8	3.3	2.9	2.2	1.5	3.4
		Min-d	N.D.	N.D.	0.3	N.D.	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Nakhon Ratchasima	Mean	2.0	2.8	3.4	2.7	2.3	1.5	2.5	2.8	1.1	2.9	5.1	2.6	2.7
%		81	79	90	83	94	60	77	97	87	97	83	100	86	
Max-d		4.3	4.7	4.8	5.2	5.6	3.1	5.3	4.4	2.7	4.7	6.2	5.8	6.2	
Min-d		0.1	1.3	2.3	1.1	0.8	0.3	0.2	0.3	N.D.	N.D.	3.7	0.8	N.D.	
Viet Nam	Ha Noi	Mean	1.2	1.2	1.4	1.3	1.6	1.1	1.7	1.0	1.5	1.3	1.2	1.1	1.3
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	1.4	1.6	2.0	1.6	2.2	1.3	2.7	1.4	1.6	1.5	1.3	1.4	2.7
		Min-w	1.0	0.8	0.5	0.9	1.1	1.1	0.6	0.8	1.2	1.1	1.1	0.9	0.5
	Hoa Binh	Mean	1.1	1.0	1.1	0.8	1.1	1.4	0.9	0.9	0.9	0.9	1.0	1.2	1.0
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	1.6	1.6	1.7	1.0	1.5	2.1	1.2	1.0	1.0	1.4	1.1	1.8	2.1
		Min-w	0.7	0.1	0.5	0.7	0.7	0.8	0.7	0.8	0.7	0.5	0.9	0.7	0.1

Mean : monthly or annual arithmetic average values

Max-d : maximum values of daily data

Min-d : minimum values of daily data

Max-10d : maximum values of 10-day interval data

Min-10d : minimum values of 10-day interval data

Max-w : maximum values of weekly data

Min-w : minimum values of weekly data

Max-2w : maximum values of biweekly data

Min-2w : minimum values of biweekly data

Max-m : maximum values of monthly data

Min-m : minimum values of monthly data

% : monthly or annual percentages of period of available data

Table 4.4 HNO₃

Unit : ppb			2008												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
China	Hongwen	Mean	1.6	1.8	3.6	1.2	1.8	0.6	1.0	1.7	3.4	1.6	0.8	0.7	1.7	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	4.6	2.4	5.9	1.4	2.3	1.2	1.5	3.0	4.5	3.7	1.4	0.8	0.8	5.9
		Min-w	0.2	1.4	1.7	0.9	1.3	0.1	0.2	0.4	2.2	0.1	0.1	0.1	0.5	0.1
Indonesia	Serpong	Mean	N.D.	N.D.	0.7	0.4	N.D.	0.1	0.3	0.2	0.3	0.3	0.2	N.D.	0.2	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.2	N.D.	1.0	0.9	N.D.	0.1	0.4	0.3	0.4	0.3	0.2	N.D.	1.0	
		Min-2w	N.D.	N.D.	0.4	N.D.	N.D.	0.1	0.2	N.D.	0.3	0.3	0.1	N.D.	N.D.	
Japan	Rishiri	Mean	N.D.	N.D.	N.D.	0.2	0.2	0.1	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	
		%	100	100	100	100	100	100	50	100	100	100	100	100	96	
		Max-2w	N.D.	N.D.	N.D.	0.3	0.3	0.2	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.3
		Min-2w	N.D.	N.D.	N.D.	0.1	0.1	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Ochiishi	Mean				N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
		%				100	100	100	100	100	100	100	100	100	100	
		Max-2w				N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
		Min-2w				N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tappi	Mean	N.D.	N.D.	0.1	0.2	0.3	0.4	0.5	0.2	0.2	0.2	N.D.	N.D.	0.2	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	N.D.	0.1	0.2	0.3	0.3	0.6	0.5	0.3	0.2	0.3	0.1	N.D.	0.6	
		Min-2w	N.D.	N.D.	N.D.	N.D.	0.3	0.2	0.5	N.D.	0.2	N.D.	N.D.	N.D.	N.D.	
	Sado-seki	Mean	N.D.	N.D.	0.2	0.1	0.4	0.4	0.5	0.1	0.2	0.4	N.D.	N.D.	0.2	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	N.D.	N.D.	0.2	0.2	0.4	0.5	0.7	0.2	0.2	0.7	0.1	N.D.	0.7	
		Min-2w	N.D.	N.D.	0.1	0.1	0.4	0.2	0.2	N.D.	0.2	0.1	N.D.	N.D.	N.D.	
	Happo	Mean	0.2	0.1	0.4	0.3	0.5	0.5	0.7	0.4	0.4	0.4	0.1	0.1	0.4	
		%	100	100	100	100	100	100	100	100	100	100	100	68	96	
		Max-2w	0.3	0.2	0.5	0.3	0.5	0.6	0.8	0.6	0.6	0.4	0.2	0.2	0.8	
		Min-2w	N.D.	N.D.	0.3	0.3	0.5	0.3	0.6	0.2	0.3	0.3	0.1	0.1	N.D.	
	Ijira	Mean	0.1	N.D.	0.3	0.4	0.7	0.6	0.8	0.5	0.3	0.3	0.1	N.D.	0.3	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.1	0.1	0.3	0.4	0.7	0.6	0.9	0.7	0.5	0.3	0.1	N.D.	0.9	
		Min-2w	N.D.	N.D.	0.3	0.3	0.7	0.5	0.7	0.3	0.2	0.2	N.D.	N.D.	N.D.	
Okii	Mean	N.D.	0.1	0.1	0.2	N.D.	0.2	0.6	0.2	0.2	0.2	0.1	N.D.	0.2		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	N.D.	0.2	0.1	0.2	N.D.	0.3	0.7	0.4	0.2	0.2	0.1	N.D.	0.7		
	Min-2w	N.D.	N.D.	0.1	0.2	N.D.	0.1	0.6	N.D.	0.2	0.1	0.1	N.D.	N.D.		
Banryu	Mean	0.2	0.3	0.2	0.3	0.5	0.2	0.6	0.2	0.2	0.4	0.2	0.2	0.3		
	%	100	100	100	85	100	100	100	100	100	100	100	100	96		
	Max-2w	0.3	0.3	0.3	0.3	0.8	0.3	1.0	0.2	0.3	0.5	0.3	0.2	1.0		
	Min-2w	0.1	0.2	0.1	0.3	0.3	0.1	0.3	0.2	0.1	0.3	N.D.	0.2	N.D.		
Yusuhara	Mean	0.3	0.5	0.5	0.6	0.6	0.4	0.5	0.3	0.4	0.2	N.D.	N.D.	0.3		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	0.4	0.5	0.6	0.7	0.7	0.5	0.6	0.3	0.4	0.2	N.D.	N.D.	0.7		
	Min-2w	0.1	0.5	0.4	0.5	0.5	0.3	0.4	0.2	0.3	0.2	N.D.	N.D.	N.D.		
Hedo	Mean	0.2	0.2	0.1	0.2	N.D.	N.D.	0.1	N.D.	0.1	N.D.	N.D.	N.D.	0.1		
	%	100	50	100	100	100	100	100	100	100	100	100	100	96		
	Max-2w	0.4	0.2	0.1	0.2	0.1	N.D.	0.2	N.D.	0.2	N.D.	0.1	0.1	0.4		
	Min-2w	N.D.	0.2	0.1	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		
Ogasawara	Mean	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	0.1	N.D.	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	N.D.	0.1		
	Min-2w	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		
Tokyo	Mean	0.2	0.2	0.4	0.7	1.8	1.7	2.7	1.4	1.8	0.9	0.4	0.2	1.0		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	0.2	0.3	0.5	0.9	2.2	2.3	3.1	1.7	2.0	1.0	0.5	0.2	3.1		
	Min-2w	0.2	0.2	0.3	0.6	1.4	1.1	2.3	1.1	1.6	0.8	0.2	0.2	0.2		
Malaysia	Tanah Rata	Mean	N.D.	0.1	N.D.	N.D.	0.2	0.2	0.1	0.3	0.1	N.D.	N.D.	N.D.	0.1	
		%	100	100	100	100	100	100	100	100	100	100	100	100		
		Max-w	N.D.	0.4	N.D.	N.D.	0.4	0.3	0.2	0.5	0.3	N.D.	0.1	N.D.	0.5	
		Min-w	N.D.	N.D.	N.D.	N.D.	0.1	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Petaling Jaya	Mean	0.9	1.2	0.6	1.1	1.0	0.9	0.5	1.0	N.D.	0.3	0.8	0.7	0.8	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	1.3	2.2	1.7	1.6	1.6	1.2	0.8	1.3	0.2	0.4	1.2	1.4	2.2	
		Min-w	0.4	0.6	0.1	0.4	0.2	0.7	0.3	0.2	N.D.	0.1	0.4	0.3	N.D.	
	Danum Valley	Mean	N.D.	N.D.	N.D.	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	N.D.	0.1	N.D.	0.1	0.1	N.D.	N.D.	0.1	0.1	0.1	N.D.	N.D.	0.1	
		Min-2w	N.D.	N.D.	N.D.	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Mongolia	Ulaanbaatar	Mean	-	-	-	-	0.5	0.3	0.2	0.1	0.1	0.2	-	-	0.2	
		%	0	0	0	0	59	100	100	100	100	40	0	0	42	
		Max-w	-	-	-	-	0.6	0.4	0.4	0.2	0.2	0.3	-	-	0.6	
		Min-w	-	-	-	-	0.2	0.3	0.2	N.D.	N.D.	N.D.	-	-	N.D.	
	Terej	Mean	0.1	0.2	0.2	0.3	0.2	0.1	0.1	0.1	N.D.	N.D.	N.D.	N.D.	0.1	
		%	100	100	100	70	100	100	100	45	100	100	100	100	93	
		Max-2w	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.1	N.D.	0.1	N.D.	0.1	0.3	
		Min-2w	N.D.	0.1	0.2	0.3	0.2	N.D.	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	

Table 4.4 HNO₃

Unit : ppb			2008												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Philippines	Metro Manila	Mean	0.6	0.3	0.3	0.1	0.2	0.1	N.D.	0.1	N.D.	2.1	-	-	0.4	
		%	100	100	100	100	100	100	100	55	100	100	0	0	81	
		Max-w	1.1	0.6	0.4	0.2	0.4	0.6	0.2	0.2	0.1	8.2	-	-	-	8.2
		Min-w	0.2	0.1	0.1	N.D.	N.D.	N.D.	N.D.	0.1	N.D.	N.D.	-	-	-	N.D.
	Los Banos	Mean	0.2	N.D.	N.D.	N.D.	0.2	N.D.	N.D.	N.D.	0.2	-	-	-	0.1	
		%	100	100	100	100	100	100	100	100	52	0	0	0	71	
		Max-w	0.4	0.3	N.D.	N.D.	0.4	0.1	0.2	N.D.	0.3	-	-	-	0.4	
		Min-w	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	-	-	-	N.D.	
	Mt. Sto. Tomas	Mean	N.D.	0.2	0.3	0.7	1.5	0.5	N.D.	N.D.	N.D.	0.2	N.D.	N.D.	0.3	
		%	100	100	100	100	100	100	100	100	100	100	100	22	94	
		Max-w	0.2	0.6	1.1	1.9	5.2	0.8	0.2	N.D.	0.2	0.6	0.1	N.D.	5.2	
		Min-w	N.D.	N.D.	N.D.	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Republic of Korea	Kanghwa	Mean	0.2	0.4	0.5	1.4	0.8	0.2	0.2	0.3	0.4	0.4	-	0.3	0.5	
		%	16	17	16	17	16	17	13	13	10	13	0	13	13	
		Max-d	0.2	0.6	0.5	2.7	1.2	0.3	0.7	0.4	0.8	0.9	-	0.4	2.7	
		Min-d	0.1	0.2	0.4	0.4	0.4	N.D.	N.D.	0.2	0.2	0.1	-	N.D.	N.D.	
	Cheju (Kosan)	Mean	-	0.3	0.9	1.3	0.8	1.1	0.5	0.3	0.3	0.4	0.5	0.7	0.7	
		%	0	3	16	17	16	17	19	16	17	16	17	16	14	
		Max-d	-	0.3	1.9	2.3	1.3	1.8	0.9	0.6	0.4	1.1	1.2	1.9	2.3	
		Min-d	-	0.3	0.3	0.3	0.4	0.4	0.2	0.1	0.2	0.1	0.1	0.2	0.1	
	Imsil	Mean	0.2	0.2	0.3	0.5	0.8	0.8	-	0.4	0.4	-	-	N.D.	0.4	
		%	16	17	16	13	16	13	0	16	13	0	0	16	11	
		Max-d	0.2	0.4	0.4	1.2	1.0	1.0	-	0.4	0.5	-	-	0.2	1.2	
		Min-d	0.1	0.1	0.2	0.2	0.4	0.5	-	0.3	0.1	-	-	N.D.	N.D.	
Russia	Mondy	Mean	N.D.	N.D.	N.D.	0.1	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-m	N.D.	N.D.	N.D.	0.1	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	
		Min-m	N.D.	N.D.	N.D.	0.1	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Listvianka	Mean	N.D.	0.1	N.D.	N.D.	0.2	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	N.D.	0.2	0.1	0.1	0.2	0.1	N.D.	0.2	N.D.	N.D.	N.D.	0.1	0.2	
		Min-w	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Irkutsk	Mean	N.D.	N.D.	N.D.	N.D.	0.2	N.D.	0.2	0.5	0.1	1.1	N.D.	N.D.	0.2	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	N.D.	0.1	N.D.	N.D.	0.3	0.2	0.2	1.8	0.1	3.5	0.1	N.D.	3.5	
		Min-w	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Primorskaya	Mean	N.D.	N.D.	N.D.	0.2	0.3	0.2	0.2	0.1	0.1	0.2	N.D.	N.D.	0.1		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	0.1	N.D.	N.D.	0.2	0.3	0.3	0.3	0.1	0.1	0.3	N.D.	N.D.	0.3		
	Min-2w	N.D.	N.D.	N.D.	0.1	0.3	0.2	0.2	N.D.	0.1	0.2	N.D.	N.D.	N.D.		
Thailand	Bangkok	Mean	0.9	N.D.	1.0	1.1	0.2	N.D.	0.1	0.2	N.D.	0.5	0.6	1.2	0.5	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-10d	1.5	N.D.	2.4	1.2	0.5	N.D.	0.2	0.4	0.1	0.8	0.7	1.5	2.4	
		Min-10d	0.4	N.D.	N.D.	0.9	N.D.	N.D.	0.1	N.D.	0.3	0.4	1.0	N.D.		
	Patumthani	Mean	0.9	1.4	0.6	1.3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.3	
		%	100	62	67	68	30	100	100	100	100	100	100	39	81	
		Max-10d	2.0	1.6	1.1	1.4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.1	2.0	
		Min-10d	0.1	1.1	N.D.	1.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	N.D.	
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	0.3	-	-	-	-	N.D.	-	-	0.2	-	0.2	
		%	0	0	42	0	0	0	0	62	0	0	76	0	12	
		Max-2w	-	-	0.3	-	-	-	-	N.D.	-	-	0.2	-	0.3	
		Min-2w	-	-	0.3	-	-	-	-	N.D.	-	-	0.2	-	N.D.	
Chiangmai (Mae Hia)	Mean	0.9	0.7	1.4	0.6	0.2	0.3	0.1	N.D.	N.D.	N.D.	0.2	0.2	0.4		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-10d	1.0	1.0	1.5	0.8	0.2	0.7	0.2	0.1	N.D.	0.1	0.3	0.4	1.5		
	Min-10d	0.7	0.5	1.2	0.5	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	N.D.	N.D.		
Nakhon Ratchasima	Mean	0.2	0.3	0.6	0.4	0.2	0.1	0.2	0.1	N.D.	N.D.	0.1	0.3	0.2		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-10d	0.3	0.4	0.7	0.5	0.3	0.2	0.3	0.2	N.D.	0.1	0.2	0.4	0.7		
	Min-10d	0.1	0.2	0.5	0.3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	N.D.		
Viet Nam	Ha Noi	Mean	0.3	0.3	0.5	0.4	1.0	0.5	0.9	0.4	0.9	0.5	0.3	0.3	0.5	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.4	0.4	1.0	0.5	1.9	0.7	1.6	0.6	2.2	0.7	0.4	0.3	2.2	
		Min-w	0.2	0.1	0.2	0.3	0.5	0.4	0.2	0.2	0.4	0.3	0.3	0.2	0.1	
	Hoa Binh	Mean	0.7	0.5	0.3	0.2	0.4	1.2	0.4	0.3	0.2	0.2	0.2	0.3	0.4	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	2.3	0.8	0.4	0.3	0.7	1.9	0.5	0.5	0.3	0.3	0.3	0.5	2.3	
		Min-w	0.2	0.3	0.3	0.2	0.3	0.5	0.3	0.2	0.2	0.1	0.2	0.2	0.1	

Mean : monthly or annual arithmetic average values

Max-d : maximum values of daily data

Min-d : minimum values of daily data

Max-10d : maximum values of 10-day interval data

Min-10d : minimum values of 10-day interval data

Max-w : maximum values of weekly data

Min-w : minimum values of weekly data

Max-2w : maximum values of biweekly data

Min-2w : minimum values of biweekly data

Max-m : maximum values of monthly data

Min-m : minimum values of monthly data

% : monthly or annual percentages of period of available data

Table 4.5 HCl

Unit : ppb			2008												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
China	Hongwen	Mean	2.1	0.5	1.3	1.5	1.7	0.7	0.9	1.2	1.3	1.2	0.5	1.0	1.2	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	3.2	0.7	2.2	1.7	2.1	1.3	1.1	1.4	1.4	1.6	1.0	1.2	1.2	3.2
		Min-w	0.8	0.4	0.5	1.3	1.0	0.3	0.5	1.0	1.2	0.7	N.D.	0.8	N.D.	N.D.
Indonesia	Serpong	Mean	0.3	0.6	0.9	1.0	0.2	0.2	0.3	0.4	0.4	0.4	N.D.	1.0	0.5	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.6	0.8	1.5	1.7	0.3	0.2	0.5	0.6	0.5	0.5	0.1	1.6	1.7	
		Min-2w	N.D.	0.4	0.4	0.3	0.1	0.2	0.1	0.1	0.4	0.3	N.D.	N.D.	N.D.	
Japan	Rishiri	Mean	0.3	0.3	0.3	0.6	0.8	0.7	0.7	0.6	0.6	0.7	0.5	0.3	0.5	
		%	100	100	100	100	100	100	50	100	100	100	100	100	96	
		Max-2w	0.3	0.3	0.3	0.6	0.9	0.9	0.7	0.7	0.7	1.0	0.5	0.4	1.0	
		Min-2w	0.2	0.2	0.2	0.5	0.8	0.5	0.7	0.4	0.5	0.4	0.5	0.2	0.2	
	Ochiishi	Mean				0.4	0.5	0.6	0.4	0.4	0.4	0.4	0.2	0.2	0.4	
		%				100	100	100	100	100	100	100	100	100	100	
		Max-2w				0.4	0.6	0.9	0.4	0.5	0.4	0.6	0.2	0.2	0.9	
		Min-2w				0.3	0.5	0.3	0.4	0.4	0.4	0.3	0.2	0.1	0.1	
	Tappi	Mean	0.3	0.6	0.7	0.8	1.1	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.4	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.4	0.7	0.8	1.2	1.2	0.9	0.9	0.7	0.6	0.7	0.6	0.5	1.2	
		Min-2w	0.3	0.4	0.6	0.4	1.1	0.7	0.6	0.6	0.5	0.5	0.5	0.3	0.3	
	Sado-seki	Mean	0.6	0.6	0.9	0.7	1.3	1.1	0.7	0.7	0.9	1.1	0.7	0.5	0.8	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.6	0.7	1.0	0.8	1.5	1.2	0.8	0.9	0.9	1.2	0.9	0.7	1.5	
		Min-2w	0.6	0.4	0.8	0.6	1.1	0.9	0.6	0.6	0.8	0.9	0.5	0.4	0.4	
	Happo	Mean	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	
		%	100	100	100	100	100	100	100	100	100	100	100	68	96	
		Max-2w	0.2	0.1	0.2	0.2	0.2	0.1	0.3	0.1	0.2	0.3	0.2	0.2	0.3	
		Min-2w	N.D.	0.1	0.2	0.2	0.2	N.D.	0.1	N.D.	0.2	0.2	0.2	0.2	N.D.	
	Ijira	Mean	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.1	N.D.	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.3	
		Min-2w	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.1	N.D.	N.D.	N.D.	
Okii	Mean	0.5	0.8	1.1	1.3	0.6	0.8	1.3	0.8	0.8	0.7	0.9	0.7	0.9		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	0.6	1.1	1.2	1.5	0.8	1.2	1.4	1.0	0.8	0.9	1.1	0.9	1.5		
	Min-2w	0.5	0.5	0.9	1.2	0.4	0.5	1.2	0.6	0.8	0.5	0.7	0.5	0.4		
Banryu	Mean	0.7	1.0	0.9	0.8	0.7	0.5	0.5	0.7	0.6	0.7	0.7	0.7	0.7		
	%	100	100	100	85	100	100	100	100	100	100	100	100	96		
	Max-2w	0.7	1.1	0.9	0.8	0.9	0.9	0.8	1.1	0.8	0.8	0.9	0.7	1.1		
	Min-2w	0.6	0.9	0.9	0.8	0.4	0.2	0.2	0.4	0.6	0.5	0.7	0.7	0.2		
Yusuhara	Mean	0.2	0.6	0.4	0.3	0.4	0.1	0.3	0.3	0.3	0.2	N.D.	0.1	0.3		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	0.3	0.6	0.4	0.4	0.5	0.2	0.3	0.3	0.3	0.2	N.D.	0.2	0.6		
	Min-2w	0.2	0.6	0.4	0.3	0.3	N.D.	0.3	0.2	0.3	0.2	N.D.	N.D.	N.D.		
Hedo	Mean	1.2	1.6	1.2	1.4	0.9	0.5	0.6	0.6	0.7	0.9	0.8	0.9	0.9		
	%	100	50	100	100	100	100	100	100	100	100	100	100	96		
	Max-2w	1.2	1.6	1.3	1.6	1.2	0.7	0.9	0.6	1.2	1.0	0.9	1.1	1.6		
	Min-2w	1.2	1.6	1.2	1.2	0.7	0.4	0.2	0.6	0.2	0.8	0.8	0.7	0.2		
Ogasawara	Mean	1.0	0.9	0.9	0.8	0.4	0.5	0.3	0.5	0.2	0.2	0.7	0.5	0.6		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	1.4	1.0	1.1	1.2	0.5	0.7	0.3	0.6	0.4	0.2	0.9	0.6	1.4		
	Min-2w	0.6	0.8	0.7	0.5	0.4	0.3	0.2	0.3	0.1	0.1	0.4	0.2	0.1		
Tokyo	Mean	0.2	0.3	0.7	0.7	1.2	1.0	1.1	1.1	1.1	1.0	0.6	0.4	0.8		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	0.3	0.4	0.8	0.8	1.4	1.1	1.2	1.1	1.2	1.0	0.6	0.5	1.4		
	Min-2w	0.2	0.3	0.6	0.7	1.0	0.7	1.1	1.0	0.9	0.9	0.6	0.4	0.2		
Malaysia	Tanah Rata	Mean	0.5	0.6	1.6	0.4	0.5	N.D.	0.1	0.2	0.2	0.2	N.D.	0.4	0.4	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.6	0.8	5.1	0.4	0.7	0.1	0.1	0.2	0.3	0.7	N.D.	0.4	5.1	
		Min-w	0.4	0.5	0.4	0.4	0.3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.4	N.D.	
	Petaling Jaya	Mean	1.8	1.9	1.3	1.6	1.9	0.6	0.5	0.9	0.2	0.7	0.7	1.4	1.1	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	3.1	2.4	1.4	1.8	2.4	0.8	0.8	1.5	0.2	2.4	0.7	2.2	3.1	
		Min-w	1.2	1.5	1.2	1.3	1.1	0.4	0.2	0.3	0.2	0.1	0.6	1.0	0.1	
	Danum Valley	Mean	0.5	0.7	0.4	0.4	0.4	0.1	0.1	0.3	0.1	0.2	0.4	0.5	0.3	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.6	1.0	0.4	0.4	0.5	0.1	0.1	0.3	0.2	0.2	0.7	0.6	1.0	
		Min-2w	0.4	0.5	0.4	0.2	0.4	0.1	0.1	0.3	N.D.	0.1	0.1	0.3	N.D.	
Mongolia	Ulaanbaatar	Mean	-	-	-	-	1.1	0.8	0.6	0.5	0.6	0.5	-	-	0.7	
		%	0	0	0	0	59	100	100	100	100	40	0	0	42	
		Max-w	-	-	-	-	1.2	1.1	0.7	0.5	0.7	0.5	-	-	1.2	
		Min-w	-	-	-	-	1.0	0.5	0.5	0.4	0.4	0.5	-	-	0.4	
	Terej	Mean	0.5	0.4	0.4	0.4	0.6	0.4	0.4	0.4	0.2	0.3	0.2	0.8	0.4	
		%	100	100	100	70	100	100	100	45	100	100	100	100	93	
		Max-2w	0.6	0.5	0.5	0.4	0.7	0.4	0.5	0.4	0.2	0.3	0.2	1.4	1.4	
		Min-2w	0.4	0.3	0.4	0.4	0.5	0.3	0.3	0.4	0.2	0.2	0.2	0.5	0.2	

Table 4.5 HCl

Unit : ppb			2008												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Philippines	Metro Manila	Mean	0.9	0.7	0.6	0.5	0.2	0.8	1.0	0.6	N.D.	1.3	-	-	0.7	
		%	100	100	100	100	100	100	100	100	55	100	100	0	0	81
		Max-w	1.6	1.3	0.9	0.7	0.5	3.5	2.4	0.7	0.2	4.3	-	-	-	4.3
		Min-w	0.2	0.4	0.4	0.4	N.D.	N.D.	0.2	0.5	N.D.	N.D.	-	-	-	N.D.
	Los Banos	Mean	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.4	-	-	-	-	0.4
		%	100	100	100	100	100	100	100	100	100	52	0	0	0	71
		Max-w	0.9	1.1	0.7	0.7	0.5	0.6	0.7	0.5	0.5	-	-	-	-	1.1
	Mt. Sto. Tomas	Mean	0.9	0.9	0.6	0.4	2.3	0.6	0.2	0.2	N.D.	0.3	0.2	0.2	0.2	0.6
		%	100	100	100	100	100	100	100	100	100	100	100	100	22	94
		Max-w	1.1	1.7	0.8	0.8	9.3	1.1	0.4	0.2	0.2	0.9	0.3	0.2	0.2	9.3
	Republic of Korea	Kanghwa	Mean	N.D.	N.D.	0.1	0.2	0.1	N.D.	N.D.	N.D.	N.D.	0.1	-	0.1	0.1
%			16	17	16	17	16	17	13	13	10	13	0	13	13	
Max-d			0.1	0.1	0.2	0.2	0.1	N.D.	N.D.	N.D.	0.1	0.1	-	0.2	0.2	
Cheju (Kosan)		Mean	-	N.D.	N.D.	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.2
		%	0	3	16	17	16	17	19	16	17	16	17	16	16	14
		Max-d	-	N.D.	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.1	0.2	0.2	0.2	0.3
Imsil		Mean	0.1	0.2	0.2	0.2	0.2	0.2	-	0.1	0.1	-	-	-	N.D.	0.1
		%	16	17	16	13	16	13	0	16	13	0	0	16	11	
		Max-d	0.1	0.2	0.3	0.2	0.2	0.2	-	0.1	0.2	-	-	0.2	0.3	
Russia		Mondy	Mean	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
			%	100	100	100	100	100	100	100	100	100	100	100	100	100
			Max-m	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	N.D.	N.D.	N.D.	N.D.	0.2
	Min-m		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	
	Listvianka	Mean	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	0.2	0.2	0.1	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.3	0.1	0.1	N.D.	0.1	N.D.	N.D.	0.1	N.D.	0.2	0.2	0.3	0.3	
	Irkutsk	Mean	0.1	0.2	0.1	0.2	0.2	N.D.	0.2	0.4	0.3	0.2	0.3	0.3	0.2	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.2	0.3	0.2	0.2	0.4	N.D.	0.2	0.5	0.4	0.5	0.4	0.7	0.7	
	Primorskaya	Mean	0.2	0.2	0.3	0.4	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
Max-2w		0.3	0.2	0.3	0.5	0.1	0.4	0.3	0.2	0.2	0.3	0.2	0.2	0.5		
Min-2w		0.1	0.2	0.2	0.3	N.D.	N.D.	0.2	0.2	0.2	0.3	0.1	0.2	N.D.		
Thailand	Bangkok	Mean	0.9	0.2	1.3	0.7	0.5	N.D.	0.4	0.3	1.0	0.2	1.7	2.6	0.8	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-10d	1.0	0.5	2.7	0.8	0.7	0.2	0.6	0.4	1.6	0.2	2.3	2.9	2.9	
		Min-10d	0.8	N.D.	0.3	0.6	0.3	N.D.	0.3	0.2	N.D.	0.1	1.4	2.2	N.D.	
	Patumthani	Mean	1.1	1.1	1.0	0.8	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.5	0.4	
		%	100	62	67	68	30	100	100	100	100	100	100	39	81	
		Max-10d	1.4	1.2	1.5	0.9	0.1	0.2	0.2	0.1	0.3	0.3	0.3	0.5	1.5	
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	0.4	-	-	-	-	0.1	-	-	0.3	-	0.3	
		%	0	0	42	0	0	0	0	62	0	0	76	0	12	
		Max-2w	-	-	0.4	-	-	-	-	0.1	-	-	0.3	-	0.4	
	Chiangmai (Mae Hia)	Mean	0.3	0.2	0.4	0.3	0.2	0.2	N.D.	0.1	0.1	N.D.	0.2	0.7	0.2	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
Max-10d		0.3	0.3	0.4	0.4	0.2	0.4	0.2	0.2	0.2	0.2	0.2	1.7	1.7		
Nakhon Ratchasima	Mean	0.4	0.3	0.4	0.4	0.3	0.2	0.1	0.1	N.D.	0.1	0.2	0.3	0.2		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-10d	0.4	0.4	0.4	0.5	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.5		
Viet Nam	Ha Noi	Mean	1.4	1.5	1.7	1.8	2.5	1.6	1.9	1.7	2.2	1.9	1.7	1.7	1.8	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	1.8	2.3	1.9	2.3	3.6	1.9	2.6	1.8	2.7	2.2	1.9	1.8	3.6	
		Min-w	1.1	0.9	1.3	1.3	1.7	1.3	0.8	1.2	1.7	1.6	1.6	1.5	0.8	
	Hoa Binh	Mean	1.5	1.0	1.3	1.4	1.4	4.7	1.8	1.7	1.6	1.6	1.8	1.7	1.8	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	2.7	1.5	1.6	1.6	1.6	9.3	2.7	2.2	1.9	1.8	2.2	2.0	9.3	
		Min-w	1.0	0.2	0.6	1.2	1.3	1.6	1.3	1.2	1.5	1.5	1.6	1.5	0.2	

Mean : monthly or annual arithmetic average values
 Max-d : maximum values of daily data
 Min-d : minimum values of daily data
 Max-10d : maximum values of 10-day interval data
 Min-10d : minimum values of 10-day interval data
 Max-w : maximum values of weekly data
 Min-w : minimum values of weekly data
 Max-2w : maximum values of biweekly data
 Min-2w : minimum values of biweekly data
 Max-m : maximum values of monthly data
 Min-m : minimum values of monthly data
 % : monthly or annual percentages of period of available data

Table 4.6 NH₃

Unit : ppb			2008												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
China	Hongwen	Mean	8.3	6.7	5.8	10.0	11.3	7.0	10.2	7.7	11.4	8.4	1.9	7.4	8.1	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	12.8	8.7	10.3	10.4	13.4	9.8	17.9	17.5	17.7	13.6	3.6	9.1	17.9	
		Min-w	4.9	4.0	1.7	9.5	10.0	4.0	3.2	3.1	5.0	2.5	0.3	5.7	0.3	
Indonesia	Serpong	Mean	7.7	2.1	10.4	6.3	5.6	4.5	6.7	10.7	7.3	6.6	5.1	3.1	6.3	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	7.8	3.7	15.1	7.4	7.1	4.5	7.3	12.1	9.0	6.7	5.4	4.9	15.1	
		Min-2w	7.7	0.4	5.6	5.2	4.2	4.5	6.2	9.2	5.6	6.4	4.8	1.0	0.4	
Japan	Rishiri	Mean	N.D.	N.D.	0.2	0.7	0.4	0.4	0.6	0.5	0.6	0.8	0.4	0.1	0.4	
		%	100	100	100	100	100	100	50	100	100	100	100	100	96	
		Max-2w	N.D.	N.D.	0.3	0.8	0.6	0.4	0.6	0.7	0.7	0.9	0.5	0.2	0.9	
		Min-2w	N.D.	N.D.	N.D.	0.7	0.3	0.3	0.6	0.4	0.6	0.8	0.2	N.D.	N.D.	
	Ochiishi	Mean				0.5	0.4	0.5	0.8	0.7	0.9	0.9	0.7	0.3	0.6	
		%				100	100	100	100	100	100	100	100	100	100	
		Max-2w				0.6	0.4	0.5	1.1	0.9	1.0	1.0	0.8	0.4	1.1	
		Min-2w				0.4	0.4	0.4	0.6	0.6	0.9	0.9	0.6	0.2	0.2	
	Tappi	Mean	0.2	0.2	0.4	0.7	0.5	0.5	0.6	0.6	0.7	0.8	0.2	0.2	0.5	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.2	0.3	0.4	0.9	0.6	0.6	0.7	0.7	0.7	0.9	0.3	0.3	0.9	
		Min-2w	N.D.	0.2	0.4	0.4	0.5	0.3	0.5	0.5	0.7	0.6	0.2	0.2	N.D.	
	Sado-seki	Mean	0.1	0.2	0.6	1.0	0.9	1.0	1.0	1.1	0.8	0.8	0.5	0.2	0.7	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.2	0.2	0.8	1.0	1.0	1.3	1.1	1.6	0.9	0.8	0.6	0.3	1.6	
		Min-2w	0.1	0.1	0.5	1.0	0.8	0.8	1.0	0.7	0.7	0.7	0.3	0.1	0.1	
	Happo	Mean	0.1	0.1	0.3	0.5	0.7	0.8	0.6	0.3	0.3	0.3	0.3	0.2	0.4	
		%	100	100	100	100	100	100	100	100	100	100	100	68	96	
		Max-2w	0.2	0.1	0.4	0.5	0.8	1.4	0.8	0.4	0.4	0.3	0.3	0.2	1.4	
		Min-2w	N.D.	0.1	0.2	0.4	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.2	N.D.	
	Ijira	Mean	0.7	0.3	0.7	1.1	1.4	1.7	2.3	1.8	1.6	1.0	0.5	0.3	1.1	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.7	0.5	0.9	1.3	1.8	2.0	2.3	1.8	1.6	1.2	0.7	0.4	2.3	
		Min-2w	0.7	0.2	0.6	0.8	1.0	1.5	2.3	1.8	1.5	0.9	0.4	0.2	0.2	
	Okii	Mean	0.4	0.6	1.3	1.3	2.4	0.9	1.2	0.9	0.7	1.1	0.5	0.4	1.0	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.5	0.8	2.0	1.4	2.7	1.0	1.2	1.1	0.8	1.5	0.7	0.7	2.7	
		Min-2w	0.2	0.5	0.6	1.3	2.0	0.8	1.1	0.7	0.7	0.7	0.3	0.2	0.2	
	Banryu	Mean	0.5	0.6	1.0	1.2	1.3	1.5	1.2	1.2	1.1	1.2	1.1	0.5	1.0	
		%	100	100	100	85	100	100	100	100	100	100	100	100	96	
		Max-2w	0.7	0.9	1.0	1.2	1.6	2.5	1.8	1.4	1.5	1.2	1.6	0.6	2.5	
		Min-2w	0.3	0.4	0.9	1.2	1.0	0.8	0.6	0.9	0.7	1.1	0.5	0.4	0.3	
	Yusuhara	Mean	0.7	0.2	0.5	0.6	0.8	0.7	0.7	0.5	0.4	0.4	0.2	0.2	0.5	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	1.0	0.3	0.5	0.7	1.2	0.7	0.7	0.5	0.4	0.5	0.2	0.2	1.2	
		Min-2w	0.4	0.1	0.4	0.6	0.5	0.6	0.6	0.5	0.4	0.4	0.2	0.1	0.1	
	Hedo	Mean	0.6	0.7	0.9	1.5	1.5	1.8	1.5	1.7	1.4	1.0	0.8	0.5	1.2	
		%	100	50	100	100	100	100	100	100	100	100	100	100	96	
		Max-2w	0.8	0.7	0.9	1.6	1.5	2.0	1.6	2.1	1.4	1.0	1.1	0.6	2.1	
		Min-2w	0.3	0.7	0.9	1.3	1.4	1.4	1.5	1.2	1.4	1.0	0.5	0.4	0.3	
	Ogasawara	Mean	0.4	0.3	0.5	0.6	0.5	0.6	0.6	0.6	0.7	0.5	0.7	0.4	0.5	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.6	0.3	0.6	0.7	0.5	0.7	0.7	0.7	0.8	0.6	0.9	0.6	0.9	
		Min-2w	0.2	0.3	0.4	0.4	0.4	0.5	0.6	0.5	0.6	0.4	0.4	0.3	0.2	
	Tokyo	Mean	3.9	3.3	4.2	4.1	5.0	5.0	7.2	6.1	5.1	6.0	7.0	5.2	5.2	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	4.7	3.9	4.2	4.5	5.2	5.4	7.4	6.8	5.4	6.3	7.8	6.5	7.8	
		Min-2w	3.2	2.8	4.1	3.7	4.7	4.6	6.9	5.5	4.9	5.6	6.2	4.3	2.8	
Malaysia	Tanah Rata	Mean	0.8	1.3	2.1	1.3	0.8	0.6	0.9	1.4	0.9	0.5	0.7	0.8	1.0	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	1.0	1.9	4.6	1.8	1.0	0.9	1.0	2.2	1.8	0.8	0.8	1.1	4.6	
		Min-w	0.6	0.9	1.1	0.8	0.2	N.D.	0.7	0.7	0.3	0.3	0.6	0.6	N.D.	
	Petaling Jaya	Mean	6.2	7.8	6.7	6.2	8.1	6.4	5.6	6.6	2.5	4.6	5.5	5.7	6.1	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	7.4	10.1	7.5	6.7	9.7	7.2	6.2	8.7	5.6	5.6	6.1	6.9	10.1	
		Min-w	4.8	6.6	5.9	5.7	6.7	5.3	4.6	2.4	0.9	3.5	4.5	4.9	0.9	
	Danum Valley	Mean	1.0	1.2	0.9	0.9	1.0	1.4	0.9	1.0	0.8	0.4	1.6	0.3	0.9	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	1.0	1.3	0.9	1.0	1.3	1.7	0.9	1.1	1.2	0.5	2.3	0.4	2.3	
		Min-2w	0.9	1.1	0.9	0.7	0.8	1.1	0.8	1.0	0.2	0.3	0.9	0.1	0.1	
Mongolia	Ulaanbaatar	Mean	-	-	-	-	9.1	11.8	15.0	9.5	6.3	11.4	-	-	10.7	
		%	0	0	0	0	59	100	100	100	100	40	0	0	42	
		Max-w	-	-	-	-	9.3	15.4	16.5	13.0	10.6	11.7	-	-	16.5	
		Min-w	-	-	-	-	9.0	9.0	13.6	5.9	N.D.	11.0	-	-	N.D.	
	Terelj	Mean	0.5	0.7	0.8	0.5	1.3	1.6	3.3	3.1	1.2	1.1	0.2	1.1	1.2	
		%	100	100	100	70	100	100	100	45	100	100	100	100	93	
		Max-2w	0.9	0.8	0.9	0.5	2.0	3.2	6.0	3.1	1.5	1.6	0.4	1.2	6.0	
		Min-2w	N.D.	0.6	0.6	0.5	0.1	N.D.	0.6	3.1	0.9	0.7	N.D.	0.9	N.D.	

Table 4.6 NH₃

Unit : ppb			2008												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Philippines	Metro Manila	Mean	7.4	8.4	9.2	8.9	4.8	3.2	6.7	3.3	4.2	36.1	-	-	9.2	
		%	100	100	100	100	100	100	100	100	55	100	100	0	0	81
		Max-w	9.6	13.4	10.0	10.3	10.2	10.9	7.8	5.8	5.7	120.0	-	-	-	120.0
		Min-w	3.9	4.6	7.8	8.2	1.0	0.2	5.5	N.D.	2.2	6.2	-	-	-	N.D.
	Los Banos	Mean	2.2	2.6	4.5	2.9	2.9	3.6	3.0	3.1	2.1	-	-	-	-	3.1
		%	100	100	100	100	100	100	100	100	100	52	0	0	0	71
		Max-w	4.6	4.1	6.5	3.1	4.1	4.2	3.7	6.4	2.2	-	-	-	-	6.5
		Min-w	0.7	1.0	3.2	2.4	2.4	2.8	1.8	2.1	2.0	-	-	-	-	0.7
	Mt. Sto. Tomas	Mean	30.8	3.6	9.5	4.9	3.4	2.6	2.8	3.1	1.8	2.9	2.6	2.8	6.4	
		%	100	100	100	100	100	100	100	100	100	100	100	22	94	
		Max-w	53.0	5.8	13.2	5.9	10.9	3.9	6.9	7.1	4.4	3.8	3.0	2.8	53.0	
		Min-w	7.5	1.2	5.3	3.8	N.D.	N.D.	0.9	1.2	0.7	2.0	2.2	2.8	N.D.	
Republic of Korea	Kanghwa	Mean	2.3	2.0	1.7	3.2	1.7	6.0	6.7	6.0	4.0	3.9	-	0.5	3.4	
		%	16	17	16	17	16	17	13	13	10	13	0	13	13	
		Max-d	4.8	3.8	3.3	5.0	3.0	8.9	7.7	8.4	5.3	7.4	-	1.1	8.9	
		Min-d	0.9	1.1	0.2	2.4	0.5	3.4	5.0	4.4	2.6	2.4	-	N.D.	N.D.	
	Cheju (Kosan)	Mean	-	-	-	4.6	3.9	4.5	5.5	3.6	6.0	2.2	1.1	1.1	3.7	
		%	0	0	0	17	16	17	19	16	17	16	17	16	13	
		Max-d	-	-	-	7.2	5.0	6.5	7.3	4.6	7.8	3.2	1.7	3.0	7.8	
		Min-d	-	-	-	3.2	2.6	1.3	4.3	2.5	4.0	0.9	0.5	0.2	0.2	
	Imsil	Mean	5.5	2.8	3.0	5.6	4.0	8.1	-	7.1	8.7	-	-	-	1.8	
		%	16	17	16	13	16	13	0	16	13	0	0	16	11	
		Max-d	7.6	3.5	5.5	8.0	4.9	10.0	-	8.6	9.6	-	-	-	3.5	
		Min-d	4.6	2.4	1.2	3.2	2.2	5.8	-	5.3	7.6	-	-	-	0.3	
Russia	Mondy	Mean	0.7	0.4	0.5	0.7	0.2	0.9	0.9	1.5	0.4	0.6	0.9	0.4	0.7	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-m	0.7	0.4	0.5	0.7	0.2	0.9	0.9	1.5	0.4	0.6	0.9	0.4	1.5	
		Min-m	0.7	0.4	0.5	0.7	0.2	0.9	0.9	1.5	0.4	0.6	0.9	0.4	0.2	
	Listvianka	Mean	2.6	3.4	3.6	1.4	2.9	3.7	1.6	1.2	3.2	3.4	3.0	2.3	2.7	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	3.6	5.9	6.8	3.1	6.9	7.5	2.4	1.4	4.4	4.5	3.9	4.8	7.5	
		Min-w	0.7	0.4	1.0	0.3	1.2	1.6	1.0	0.9	1.2	2.4	2.2	1.1	0.3	
	Irkutsk	Mean	0.7	1.2	1.7	1.7	2.4	4.8	3.6	6.6	4.6	4.9	2.9	3.0	3.3	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	1.4	2.0	2.3	2.7	4.0	9.0	6.1	12.2	7.2	8.6	4.1	4.4	12.2	
		Min-w	0.1	0.2	1.2	1.1	0.5	0.9	1.1	1.9	2.4	2.5	2.2	1.5	0.1	
Primorskaya	Mean	2.0	1.4	1.9	2.5	2.2	4.1	4.9	4.8	4.4	4.4	2.3	0.4	2.9		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	3.2	1.4	1.9	3.0	2.3	5.0	5.5	5.6	4.8	6.9	3.5	0.5	6.9		
	Min-2w	0.8	1.4	1.8	2.0	2.2	3.2	4.3	4.0	3.9	2.0	1.1	0.4	0.4		
Thailand	Bangkok	Mean	20.4	2.6	13.7	6.0	6.0	0.3	8.5	8.1	5.8	8.2	9.1	13.6	8.2	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-10d	28.5	6.9	31.8	6.9	11.1	0.5	8.8	8.7	8.6	10.6	9.6	14.8	31.8	
		Min-10d	12.3	0.2	0.6	5.3	1.8	N.D.	7.9	6.9	0.4	5.5	8.2	12.6	N.D.	
	Patumthani	Mean	9.4	6.8	3.9	8.6	0.4	0.8	1.2	1.1	1.1	1.0	1.1	3.0	3.1	
		%	100	62	67	68	30	100	100	100	100	100	100	39	81	
		Max-10d	10.1	7.2	7.2	10.5	0.4	1.6	1.7	1.5	1.3	1.3	1.6	3.0	10.5	
		Min-10d	8.5	6.5	0.6	6.7	0.4	N.D.	0.9	0.7	1.1	0.6	0.8	3.0	N.D.	
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	3.5	-	-	-	-	1.5	-	-	2.0	-	2.3	
		%	0	0	42	0	0	0	0	62	0	0	76	0	12	
		Max-2w	-	-	3.5	-	-	-	-	1.5	-	-	2.0	-	3.5	
		Min-2w	-	-	3.5	-	-	-	-	1.5	-	-	2.0	-	1.5	
Chiangmai (Mae Hia)	Mean	5.4	5.2	8.0	7.3	3.3	3.9	0.6	1.0	3.4	1.6	1.1	4.6	3.8		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-10d	6.0	5.9	10.1	9.2	3.7	4.0	1.4	2.9	4.7	2.0	3.2	6.5	10.1		
	Min-10d	4.8	4.2	6.7	5.3	3.0	3.7	N.D.	N.D.	2.7	1.3	N.D.	3.7	N.D.		
Nakhon Ratchasima	Mean	3.2	3.7	3.8	3.3	2.3	2.6	1.8	2.0	1.9	2.1	1.9	2.9	2.6		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-10d	3.9	3.9	4.1	3.7	2.9	2.9	2.0	2.2	2.2	2.3	2.1	3.4	4.1		
	Min-10d	2.5	3.3	3.5	2.8	1.9	2.4	1.6	1.9	1.4	1.8	1.6	2.4	1.4		
Viet Nam	Ha Noi	Mean	5.4	5.2	5.6	6.3	5.4	4.3	3.9	4.0	6.3	5.6	4.1	4.1	5.0	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	5.9	6.0	6.0	7.7	7.4	4.4	4.3	4.6	9.4	8.5	5.0	4.2	9.4	
	Hoa Binh	Mean	4.8	4.4	5.0	5.1	4.0	4.2	3.7	3.5	4.8	4.1	3.8	3.8	3.5	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	5.0	5.1	5.2	5.4	5.8	3.5	3.6	3.5	4.1	4.5	4.7	4.2	5.8	
Min-w	4.2	4.3	4.1	3.8	3.2	3.3	3.0	3.1	3.3	3.4	3.8	3.5	3.0			

Mean : monthly or annual arithmetic average values

Max-d : maximum values of daily data

Min-d : minimum values of daily data

Max-10d : maximum values of 10-day interval data

Min-10d : minimum values of 10-day interval data

Max-w : maximum values of weekly data

Min-w : minimum values of weekly data

Max-2w : maximum values of biweekly data

Min-2w : minimum values of biweekly data

Max-m : maximum values of monthly data

Min-m : minimum values of monthly data

% : monthly or annual percentages of period of available data

Table 4.7 NO

Unit : ppb		2008													Annual	
Country	Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
China	Jinyunshan	Mean	1.3	1.7	6.1	3.7	8.2	9.9	9.9	11.1	11.4	9.1	5.0	2.8	6.7	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-d	4.0	3.2	12.0	11.2	17.6	26.4	23.2	24.0	16.8	16.0	9.6	7.2	26.4	
		Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2.4	N.D.	N.D.	
Japan	Rishiri	Mean	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
		%	82	97	98	98	98	98	98	98	97	74	96	98	94	
		Max-d	0.6	0.8	0.2	0.2	0.1	0.3	0.2	0.4	0.4	0.2	N.D.	N.D.	0.8	
			Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Ochiishi	Mean	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	
		%	97	97	97	98	94	96	99	99	97	89	92	96	96	
		Max-d	0.1	0.1	0.2	0.3	0.2	0.2	0.3	0.4	0.3	0.2	0.3	N.D.	0.4	
			Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tappi	Mean	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	0.3	0.3	0.3	0.2	N.D.	N.D.	0.1	
		%	99	99	99	99	98	94	99	98	98	98	98	99	98	
		Max-d	N.D.	N.D.	0.5	0.9	0.4	1.2	1.8	1.9	0.7	0.4	0.3	0.1	1.9	
			Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Sado-seki	Mean	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
		%	95	97	96	93	98	99	98	98	98	99	90	98	97	
		Max-d	0.1	N.D.	N.D.	N.D.	N.D.	0.2	N.D.	0.3	0.1	0.1	0.1	0.1	0.3	
			Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Happo	Mean	0.1	0.1	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
		%	99	99	99	99	99	99	87	88	97	99	99	90	96	
		Max-d	0.5	0.4	0.5	0.3	0.2	0.2	N.D.	0.1	0.3	N.D.	0.3	0.4	0.5	
			Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Ijira	Mean	0.2	N.D.	N.D.	N.D.	0.1	0.2	0.6	0.5	0.3	0.2	0.2	0.2	0.2	
		%	99	99	98	99	99	98	98	98	98	99	90	98	98	
		Max-d	0.7	0.2	0.2	0.2	0.3	0.6	1.8	2.4	0.8	0.4	0.4	0.6	2.4	
			Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	0.1	N.D.	0.1	N.D.	N.D.	N.D.	
Oki	Mean	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		
	%	97	95	97	97	97	98	98	96	94	98	97	92	96		
	Max-d	0.2	0.2	0.1	N.D.	N.D.	0.1	0.1	0.1	N.D.	N.D.	N.D.	N.D.	0.2		
		Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		
Banryu	Mean	0.2	0.2	0.2	0.1	0.1	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2		
	%	98	96	96	97	97	97	90	97	94	72	98	74	92		
	Max-d	0.8	0.5	0.5	0.5	0.3	0.8	0.7	0.4	0.8	0.3	0.6	0.4	0.8		
		Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		
Yusuhara	Mean	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.3	0.5	0.6	0.6	0.2		
	%	98	98	98	98	98	98	98	98	88	98	98	98	97		
	Max-d	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.6	0.6	0.6	0.7	0.7		
		Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.3	0.5	0.5	N.D.		
Hedo	Mean	0.1	0.1	N.D.	N.D.	0.1	0.2	0.2	0.2	N.D.	N.D.	N.D.	0.1	0.1		
	%	98	79	98	98	98	97	98	98	97	98	91	97	96		
	Max-d	0.4	0.4	N.D.	0.1	0.3	0.4	0.4	0.5	0.3	0.2	0.2	0.2	0.5		
		Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		
Ogasawara	Mean	N.D.	N.D.	N.D.	N.D.	N.D.	0.3	N.D.	0.1	0.2	N.D.	N.D.	N.D.	N.D.		
	%	96	97	97	96	97	97	96	97	94	96	95	96	96		
	Max-d	0.2	0.2	0.2	0.3	0.3	2.4	0.4	1.2	2.8	0.2	0.3	0.3	2.8		
		Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		
Thailand	Bangkok	Mean	17.1	10.0	7.3	6.6	11.9	13.2	13.0	13.3	17.3	24.4	14.0	17.2	13.6	
		%	90	100	100	97	100	97	100	100	100	100	90	35	92	
		Max-d	85.2	39.6	26.5	23.7	43.4	44.2	35.1	30.3	57.8	66.0	43.2	38.4	85.2	
			Min-d	0.7	0.9	0.4	0.2	0.5	0.3	3.1	5.1	3.0	3.2	1.3	5.2	
	Samutprakarn	Mean	15.8	11.8	8.2	8.4	13.7	16.0	21.0	16.0	21.6	19.3	15.7	15.1	15.3	
		%	100	97	97	93	100	97	97	100	100	100	100	100	98	
		Max-d	56.4	58.0	39.5	33.9	39.3	32.3	50.1	27.0	46.3	39.6	54.2	41.9	58.0	
			Min-d	3.3	3.0	2.0	1.9	3.0	3.2	4.8	4.3	6.4	5.0	2.0	1.9	
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	1.1	1.0	0.6	-	-	0.2	-	1.7	-	-	0.7	
		%	0	0	26	7	45	0	0	42	0	16	0	0	11	
		Max-d	-	-	3.0	1.2	0.7	-	-	0.6	-	2.0	-	-	3.0	
			Min-d	-	-	0.3	0.8	0.5	-	-	N.D.	-	1.3	-	N.D.	
	Chiangmai (Mae Hia)	Mean	4.6	2.4	2.6	0.6	0.4	0.7	0.9	1.4	1.9	1.6	2.7	3.5	2.0	
		%	100	86	90	80	94	100	90	100	100	97	100	100	95	
		Max-d	8.6	5.3	5.6	3.4	1.0	1.8	2.3	3.0	3.5	3.4	5.0	6.7	8.6	
			Min-d	2.0	0.3	0.4	N.D.	N.D.	N.D.	N.D.	0.3	0.3	0.2	1.0	1.0	
	Nakhon Ratchasima	Mean	9.5	5.4	4.7	4.3	2.9	3.3	4.8	5.7	4.1	6.8	6.3	13.3	5.9	
		%	77	93	90	93	100	83	84	100	100	97	100	100	93	
		Max-d	26.7	19.3	10.9	7.3	5.7	12.3	7.2	8.5	11.8	16.0	29.7	48.7	48.7	
			Min-d	1.7	1.4	2.1	2.1	1.5	1.7	2.5	3.7	2.0	2.5	3.0	2.3	

Mean : monthly or annual arithmetic average values

Max-d : maximum values of daily data

Min-d : minimum values of daily data

% : monthly or annual percentages of period of available data

Table 4.8 NO₂

Unit : ppb			2008												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
China	Hongwen	Mean	25.0	15.4	29.4	21.9	17.9	14.7	16.0	18.1	17.4	15.5	18.0	29.3	19.9	
		%	100	100	94	100	100	100	100	100	100	100	100	100	100	99
		Max-d	59.8	62.9	65.0	43.7	34.3	31.2	34.3	34.3	35.9	35.4	33.8	48.9	65.0	65.0
		Min-d	13.5	4.7	12.0	8.3	6.8	4.2	2.6	5.7	10.9	4.7	10.4	14.6	2.6	2.6
	Xiang Zhou	Mean	30.4	30.6	25.2	22.7	19.5	14.7	12.6	10.6	13.4	13.9	21.8	37.7	21.1	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-d	46.8	51.0	51.0	56.7	26.5	25.0	28.6	22.4	23.4	19.8	39.0	60.3	60.3	
		Min-d	18.2	18.2	10.9	11.4	10.9	8.8	7.8	6.8	6.8	4.7	11.4	20.3	4.7	
Indonesia	Jakarta	Mean	41.4	35.3	29.6	34.2	39.2	32.9	25.5	37.6	30.8	35.9	32.4	19.1	32.8	
		%	100	100	100	100	100	84	100	100	80	100	100	100	97	
		Max-w	58.0	65.7	33.7	45.9	44.1	47.3	35.0	49.1	88.0	46.4	53.0	30.6	88.0	
		Min-w	8.8	21.5	26.8	11.9	34.9	N.D.	7.4	12.4	5.0	26.1	10.6	10.7	N.D.	
	Kototabang	Mean	3.4	4.2	2.0	1.2	1.6	1.7	1.3	0.7	1.3	2.0	1.5	1.3	1.9	
		%	100	100	100	100	100	66	25	80	100	100	100	100	90	
		Max-w	4.9	5.4	3.1	1.8	2.2	2.3	1.3	1.5	1.8	2.9	2.1	2.3	5.4	
		Min-w	0.8	1.1	1.5	0.9	0.9	1.1	1.3	N.D.	0.6	1.3	0.8	0.5	N.D.	
	Bandung	Mean	12.5	10.9	16.1	15.3	13.6	11.7	11.8	11.1	8.5	9.7	8.2	5.8	11.3	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	15.5	11.5	16.7	16.3	18.8	12.5	13.8	12.6	8.7	10.4	10.9	6.9	18.8	
		Min-2w	9.5	10.3	15.6	14.3	8.4	10.9	9.7	9.6	8.2	9.1	5.5	4.8	4.8	
Japan	Banryu	Mean	4.2	3.8	4.3	3.8	3.2	2.6	2.0	1.9	2.6	3.3	3.7	4.1	3.4	
		%	22	96	96	97	97	97	90	13	60	72	98	74	76	
		Max-d	7.6	7.9	6.9	7.5	5.5	5.2	3.4	2.5	3.6	7.5	6.4	6.0	7.9	
		Min-d	2.3	0.8	1.7	0.9	1.5	0.7	0.5	1.0	1.8	1.9	2.2	2.6	0.5	
Republic of Korea	Kanghwa	Mean	4.0	5.0	5.0	9.0	5.0	4.0	6.0	7.0	8.0	9.0	8.0	13.0	6.9	
		%	98	100	100	100	98	100	100	44	100	100	100	100	95	
		Max-d	6.0	7.0	10.0	13.0	8.0	7.0	12.0	10.0	14.0	11.0	12.0	20.0	20.0	
		Min-d	2.0	3.0	4.0	5.0	3.0	3.0	2.0	5.0	6.0	6.0	5.0	9.0	2.0	
	Cheju (Kosan)	Mean	5.0	1.0	1.0	3.0	4.0	3.0	2.0	2.0	3.0	3.0	4.0	4.0	2.9	
		%	99	78	97	100	100	96	100	100	74	96	100	100	95	
		Max-d	8.0	1.0	1.0	5.0	6.0	3.0	2.0	4.0	4.0	6.0	5.0	8.0	8.0	
		Min-d	2.0	0.0	1.0	1.0	3.0	2.0	1.0	0.0	2.0	2.0	3.0	1.0	0.0	
	Imsil	Mean	8.0	5.0	5.0	3.0	4.0	2.0	4.0	4.0	2.0	3.0	5.0	-	4.1	
		%	96	100	100	98	98	100	100	100	98	100	60	0	87	
		Max-d	14.0	11.0	7.0	4.0	6.0	2.0	4.0	5.0	5.0	4.0	6.0	-	14.0	
		Min-d	3.0	3.0	4.0	2.0	2.0	1.0	3.0	3.0	1.0	2.0	5.0	-	1.0	
Thailand	Bangkok	Mean	24.3	19.0	16.6	20.7	20.8	15.4	16.5	17.0	19.5	26.9	25.7	31.9	20.5	
		%	90	100	100	97	100	97	100	100	100	100	90	35	92	
		Max-d	38.9	30.1	35.8	37.1	33.4	26.8	27.7	25.6	34.3	46.9	37.7	40.6	46.9	
		Min-d	13.9	8.0	8.4	7.0	12.6	8.9	10.2	10.7	12.5	12.4	14.1	23.6	7.0	
	Samutprakarn	Mean	27.4	9.4	9.4	12.9	14.1	12.4	11.0	10.6	17.0	19.9	22.3	28.8	16.4	
		%	100	93	97	100	100	97	97	100	100	100	100	100	99	
		Max-d	48.3	23.0	25.0	32.2	22.9	21.9	22.3	16.0	35.4	28.7	37.3	45.3	48.3	
		Min-d	2.8	1.9	2.6	2.2	7.0	3.0	4.0	5.1	9.7	6.2	10.0	14.2	1.9	

Mean : monthly or annual arithmetic average values

Max-d : maximum values of daily data

Min-d : minimum values of daily data

Max-w : maximum values of weekly data

Min-w : minimum values of weekly data

Max-2w : maximum values of biweekly data

Min-2w : minimum values of biweekly data

% : monthly or annual percentages of period of available data

Table 4.9 NOx

Unit : ppb		2008														Annual
Country	Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
China	Jinyunshan (NOx*)	Mean	13.7	12.9	14.3	9.0	12.6	14.4	12.4	12.9	13.6	11.4	7.7	6.6	11.8	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-d	25.3	25.6	27.4	16.1	22.9	30.6	25.3	26.1	19.6	18.6	11.7	16.0	30.6	
		Min-d	7.8	5.2	4.7	2.6	2.6	2.1	1.6	1.0	1.6	2.1	4.5	2.4	1.0	
Japan	Rishiri (NOx*)	Mean	1.2	1.4	1.2	1.7	0.9	0.6	0.9	0.7	0.8	0.8	1.1	0.9	1.0	
		%	82	97	98	98	98	98	98	98	97	74	96	98	94	
		Max-d	2.3	3.2	2.5	2.9	1.8	1.5	1.5	1.8	2.5	1.7	3.0	1.5	3.2	
	Min-d	0.2	0.6	0.2	0.7	0.2	0.1	0.2	N.D.	0.2	N.D.	0.1	0.3	N.D.		
	Ochiishi (NOx*)	Mean	0.8	1.0	1.2	1.2	1.0	0.9	1.0	0.9	0.9	1.0	1.1	0.9	1.0	
		%	97	97	97	98	94	96	99	99	97	89	92	96	96	
		Max-d	1.6	2.2	2.3	2.4	2.0	1.9	1.9	2.1	1.7	2.1	2.2	2.0	2.4	
	Min-d	0.4	N.D.	0.5	0.3	0.3	0.4	0.3	0.2	0.5	0.3	0.4	0.6	N.D.		
	Tappi (NOx*)	Mean	0.7	1.0	1.9	2.1	1.7	2.3	2.7	1.6	1.9	1.6	1.2	1.1	1.6	
		%	99	99	99	99	98	94	99	98	98	98	98	99	98	
		Max-d	1.6	3.1	4.5	8.4	4.7	10.4	11.6	5.8	3.5	3.0	2.3	2.0	11.6	
	Min-d	0.4	0.4	0.6	0.2	N.D.	0.4	0.6	0.3	0.5	0.7	0.4	0.4	N.D.		
	Sado-seki (NOx*)	Mean	1.1	1.3	2.2	1.6	1.2	0.8	0.7	0.4	0.6	1.2	1.1	1.3	1.1	
		%	93	96	96	93	98	99	92	98	98	99	90	98	96	
		Max-d	3.5	3.6	4.6	3.0	2.8	1.9	1.4	1.1	1.9	3.4	2.7	3.0	4.6	
	Min-d	0.5	0.6	0.3	0.5	0.4	0.1	0.2	N.D.	0.1	0.3	0.5	0.5	N.D.		
	Happo (NOx*)	Mean	1.9	1.9	2.8	2.4	2.9	2.6	2.5	2.0	1.9	1.7	1.4	1.4	2.1	
		%	99	99	99	99	99	99	87	88	97	99	99	90	96	
		Max-d	3.6	2.5	6.7	4.7	6.5	5.5	4.3	4.0	4.0	4.0	2.3	3.0	6.7	
	Min-d	0.8	1.1	0.4	0.8	1.3	0.7	1.0	0.4	0.6	0.8	0.6	0.3	0.3		
	Ijira (NOx*)	Mean	1.2	1.1	2.1	2.3	2.8	3.1	3.9	3.0	2.1	2.1	1.3	1.6	2.2	
		%	99	99	98	99	99	98	98	98	98	99	90	98	98	
		Max-d	3.9	2.4	8.1	4.8	4.9	6.9	6.9	7.4	4.0	4.0	3.2	3.7	8.1	
	Min-d	0.4	0.5	0.4	0.8	0.9	0.8	1.4	0.8	0.7	0.6	0.4	0.4	0.4		
	Oki (NOx*)	Mean	1.7	1.9	2.5	2.2	1.7	1.0	1.1	0.5	0.8	1.5	1.5	1.8	1.5	
		%	97	95	97	97	97	98	98	96	94	98	97	92	96	
		Max-d	6.6	6.5	5.9	3.8	4.0	2.2	2.9	2.0	3.0	3.6	3.3	3.8	6.6	
	Min-d	0.4	0.8	0.5	0.2	0.5	0.2	0.3	N.D.	0.3	0.6	0.5	0.2	N.D.		
	Banryu	Mean	4.4	4.0	4.4	3.9	3.3	2.8	2.3	2.2	2.9	3.5	3.9	4.3	3.6	
		%	22	96	96	97	97	97	90	13	60	72	98	74	76	
		Max-d	8.1	8.1	7.4	7.9	5.6	5.4	3.6	2.7	4.1	7.8	6.6	6.4	8.1	
	Min-d	2.4	0.9	1.8	0.9	1.6	0.8	0.9	1.2	2.2	2.1	2.3	2.6	0.8		
	Yusuhara (NOx*)	Mean	2.3	2.4	2.0	1.8	1.4	0.9	0.9	0.8	0.8	1.3	1.9	2.0	1.5	
		%	98	98	98	98	98	98	98	98	88	98	98	98	97	
		Max-d	4.5	4.1	3.4	3.3	2.9	1.9	2.3	1.8	1.6	2.4	3.1	3.2	4.5	
	Min-d	1.0	0.9	0.9	0.7	0.5	0.3	0.3	0.2	0.5	0.6	0.9	0.6	0.2		
Hedo (NOx*)	Mean	0.6	0.9	0.8	0.7	0.5	0.6	0.7	0.7	0.5	0.4	0.7	0.7	0.7		
	%	98	79	97	98	98	97	98	98	97	98	93	97	96		
	Max-d	2.0	2.1	2.1	1.8	1.4	1.4	1.6	1.9	1.3	1.1	1.5	1.3	2.1		
Min-d	0.1	0.4	N.D.	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.3	0.5	N.D.			
Ogasawara (NOx*)	Mean	0.5	0.9	0.8	0.5	0.1	0.5	0.3	0.2	0.4	0.2	0.4	0.7	0.5		
	%	96	97	97	96	97	97	96	97	94	96	95	96	96		
	Max-d	2.2	2.8	3.5	3.0	1.2	3.6	1.9	2.6	4.7	1.2	2.0	3.2	4.7		
Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.			
Thailand	Bangkok	Mean	41.7	29.1	24.1	27.5	32.9	28.8	29.8	30.6	37.0	51.8	39.9	49.2	34.4	
		%	90	100	100	97	100	97	100	100	100	100	90	35	92	
		Max-d	124.5	67.7	62.5	52.8	77.2	60.8	64.6	52.0	83.1	94.4	81.2	78.9	124.5	
		Min-d	14.7	10.0	10.3	7.3	14.3	8.9	15.7	17.1	17.4	20.1	19.7	34.0	7.3	
	Samutprakarn	Mean	43.1	20.5	17.5	21.0	27.8	28.4	31.9	26.6	38.6	39.2	38.0	43.8	31.5	
		%	100	100	97	100	100	97	97	100	100	100	100	100	99	
		Max-d	104.7	72.0	61.6	61.3	54.6	51.4	63.8	41.1	76.1	67.5	85.0	78.7	104.7	
		Min-d	5.9	4.8	6.5	4.8	16.7	5.9	10.0	11.5	16.0	12.9	16.5	18.5	4.8	
	Khanchanaburi (Vachiralongkorn Dam) (NOx*)	Mean	-	-	1.3	1.6	0.5	-	-	1.4	-	-	1.7	-	1.2	
		%	0	0	26	10	35	0	0	39	0	0	40	0	13	
		Max-d	-	-	6.0	2.3	0.6	-	-	2.3	-	-	2.1	-	6.0	
	Min-d	-	-	0.1	0.9	0.3	-	-	0.6	-	-	1.2	-	0.1		
	Chiangmai (Mae Hia) (NOx*)	Mean	17.8	9.9	16.4	8.9	5.5	6.5	7.3	6.5	7.4	9.1	12.7	15.7	10.4	
		%	100	100	100	100	94	100	94	100	100	97	100	100	99	
		Max-d	21.9	16.8	26.3	17.2	7.7	10.3	12.0	11.6	10.7	13.2	16.4	23.2	26.3	
	Min-d	5.5	4.5	9.1	1.9	1.7	3.1	4.2	3.0	4.7	5.9	8.8	11.2	1.7		
	Nakhon Ratchasima (NOx*)	Mean	29.2	18.4	18.2	15.8	8.3	12.7	14.4	13.0	12.5	15.5	16.0	30.5	16.9	
		%	77	93	90	93	100	83	84	100	100	100	100	100	93	
		Max-d	58.4	38.5	32.1	25.7	13.5	30.0	19.9	18.9	23.7	28.3	39.0	71.8	71.8	
	Min-d	13.1	11.1	10.2	5.8	3.7	6.1	9.0	7.2	6.4	6.7	8.1	9.9	3.7		

Mean : monthly or annual arithmetic average values

Max-d : maximum values of daily data

Min-d : minimum values of daily data

% : monthly or annual percentages of period of available data

NOx* : NOx measured by CLD in remote or rural sites

Table 4.10 O₃

Unit : ppb			2008												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Japan	Rishiri	Mean	42	45	52	59	54	42	31	27	34	40	37	39	42	
		%	82	97	98	98	98	98	98	98	98	97	74	96	98	94
		Max-d	46	53	71	73	77	71	63	41	46	57	50	48	47	77
		Min-d	37	40	45	48	36	25	17	15	14	26	28	33	14	
	Ochiishi	Mean	38	41	46	50	49	39	30	27	32	38	35	35	38	
		%	100	100	100	100	96	100	100	100	100	100	93	100	99	
		Max-d	41	48	60	60	73	62	41	44	42	56	48	42	73	
		Min-d	33	36	40	44	38	27	22	11	20	29	21	30	11	
	Tappi	Mean	50	56	62	71	66	24	19	33	18	29	22	21	39	
		%	99	99	99	99	98	94	99	98	98	98	98	99	98	
		Max-d	55	74	80	93	95	75	59	59	51	61	60	40	95	
		Min-d	44	50	53	57	51	7	5	8	6	7	8	7	5	
	Sado-seki	Mean	43	48	56	64	64	48	42	37	43	46	39	38	47	
		%	95	97	96	93	98	98	92	98	98	99	89	98	96	
		Max-d	49	63	70	80	98	71	61	54	62	67	50	47	98	
		Min-d	39	42	45	51	47	34	31	28	31	37	31	32	28	
	Happo	Mean	44	48	58	63	65	58	45	42	42	47	41	44	50	
		%	99	99	99	99	99	99	87	88	97	99	99	90	96	
		Max-d	60	59	73	83	84	75	64	61	61	58	53	53	84	
		Min-d	37	39	43	47	39	39	32	25	27	37	10	35	10	
	Ijira	Mean	20	21	32	32	28	16	14	11	14	15	15	15	20	
		%	99	99	99	99	99	98	99	99	99	99	91	99	98	
		Max-d	41	36	46	44	47	37	22	19	35	27	23	24	47	
		Min-d	2	8	20	22	14	4	2	3	3	7	8	6	2	
	Okii	Mean	39	45	53	61	63	43	38	35	40	47	41	38	45	
		%	98	95	97	98	97	98	98	96	94	98	97	92	97	
		Max-d	53	68	65	79	101	64	60	55	53	61	56	52	101	
		Min-d	34	36	42	48	43	25	21	23	32	36	33	33	21	
	Banryu	Mean	31	40	44	51	50	33	25	25	25	32	29	28	35	
		%	98	96	96	97	97	97	94	97	96	97	98	84	96	
		Max-d	44	52	55	66	72	52	44	43	41	43	41	37	72	
		Min-d	17	27	31	30	32	9	11	14	12	17	18	21	9	
	Yusuhara	Mean	37	43	50	57	54	43	26	28	29	40	37	37	40	
		%	99	99	99	98	99	99	99	99	89	99	99	99	98	
		Max-d	54	55	65	69	71	61	42	55	42	48	52	47	71	
		Min-d	28	35	40	46	39	17	12	11	18	31	24	30	11	
	Hedo	Mean	43	50	58	57	46	22	17	25	24	43	41	43	39	
		%	99	80	99	99	99	99	99	99	99	99	93	99	97	
		Max-d	70	63	78	79	82	53	42	59	67	59	54	53	82	
		Min-d	33	39	35	22	11	8	10	10	10	14	16	37	8	
	Ogasawara	Mean	40	46	46	44	24	13	17	12	9	21	31	35	28	
		%	96	97	97	96	97	97	96	97	94	96	95	96	96	
		Max-d	55	52	57	56	50	49	40	28	21	43	43	46	57	
		Min-d	31	37	34	20	7	4	3	4	4	8	14	23	3	
	Republic of Korea	Kanghwa	Mean	33	40	45	60	52	49	33	39	39	42	31	25	41
			%	100	100	100	100	98	100	100	82	100	100	100	98	98
			Max-d	38	46	50	72	58	59	62	57	46	62	34	30	72
			Min-d	29	36	38	50	47	39	23	27	28	28	24	18	18
Cheju (Kosan)		Mean	37	48	52	64	53	40	24	36	33	44	38	38	42	
		%	99	78	97	100	100	96	100	100	94	96	100	100	97	
		Max-d	50	59	55	69	61	54	41	48	51	50	46	54	69	
		Min-d	32	43	48	60	47	21	12	20	16	41	33	28	12	
Imsil		Mean	15	23	31	37	23	19	10	15	15	20	15	-	20	
		%	96	100	100	98	100	100	100	100	100	100	60	0	88	
		Max-d	18	31	37	46	24	28	15	19	19	25	17	-	46	
		Min-d	11	16	27	31	20	11	6	7	7	14	14	-	6	
Russia	Mondy	Mean	-	-	41	45	43	36	35	31	30	31	31	31	35	
		%	0	0	42	100	100	100	100	71	100	94	93	100	75	
		Max-d	-	-	46	59	53	45	45	41	37	36	37	35	59	
		Min-d	-	-	36	33	32	25	24	19	21	22	21	22	19	

Table 4.10 O₃

Unit : ppb			2008												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Thailand	Bangkok	Mean	5	7	12	19	14	9	7	7	8	11	16	21	10	
		%	94	93	94	80	100	100	100	100	100	100	90	90	13	88
		Max-d	20	20	33	29	23	15	12	16	16	16	21	32	27	33
		Min-d	1	0	N.D.	8	3	3	2	1	2	4	5	12	N.D.	
	Samutprakarn	Mean	25	27	24	20	16	12	11	11	11	11	15	18	21	18
		%	100	93	97	100	100	97	100	100	100	100	100	100	100	99
		Max-d	38	45	43	29	28	23	16	21	22	27	35	31	45	
		Min-d	16	10	13	10	7	6	6	4	3	5	9	10	3	
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	23	16	13	-	-	10	-	-	19	-	16	
		%	0	0	42	10	48	0	0	55	0	0	40	0	16	
		Max-d	-	-	31	21	22	-	-	15	-	-	30	-	31	
		Min-d	-	-	18	8	8	-	-	5	-	-	9	-	5	
	Chiangmai (Mae Hia)	Mean	25	29	35	36	21	16	15	16	15	14	17	20	22	
		%	100	100	100	100	94	100	94	87	80	97	100	100	96	
		Max-d	40	40	51	53	26	21	22	25	25	21	25	32	53	
		Min-d	12	13	17	13	16	13	12	12	10	8	7	9	7	
	Nakhon Ratchasima	Mean	28	33	35	25	25	17	11	12	13	12	24	26	22	
		%	81	93	90	97	81	63	84	100	100	87	100	100	90	
Max-d		41	43	49	37	30	25	19	26	19	22	38	37	49		
Min-d		20	22	16	11	17	9	6	7	7	8	9	14	6		

Mean : monthly or annual arithmetic average values

Max-d : maximum values of daily data

Min-d : minimum values of daily data

% : monthly or annual percentages of period of available data

Table 4.11 PM₁₀

Unit : $\mu\text{g}/\text{m}^3$			2008												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
China	Jinyunshan	Mean	74	28	67	53	69	62	41	28	37	34	33	70	50	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-d	176	53	165	121	124	142	75	67	84	95	123	145	145	176
		Min-d	12	4	6	9	10	4	9	3	4	4	4	4	4	3
	Hongwen	Mean	68	59	104	64	49	32	34	41	61	63	60	79	59	
		%	94	100	94	100	100	100	97	94	100	97	100	100	98	
		Max-d	244	177	173	121	116	165	90	91	108	111	119	146	244	
		Min-d	18	12	25	17	6	3	13	17	34	5	15	23	3	
	Xiang Zhou	Mean	61	59	63	49	42	32	30	28	50	53	60	82	51	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-d	100	95	110	138	74	55	80	60	100	83	104	138	138	
		Min-d	40	34	36	28	27	24	20	16	18	15	25	36	15	
Japan	Rishiri	Mean	10	10	18	27	19	10	16	14	17	20	16	15	16	
		%	88	87	88	88	88	88	88	88	88	75	76	88	88	
		Max-d	25	33	76	59	71	40	56	40	33	42	42	39	76	
		Min-d	3	4	2	6	6	3	3	3	5	5	5	3	2	
	Ochiishi	Mean	17	22	21	39	29	27	22	19	27	29	143	29	30	
		%	100	100	100	92	99	100	100	99	100	99	47	100	95	
		Max-d	37	103	48	760	78	152	119	53	150	60	611	110	760	
		Min-d	10	8	7	1	6	7	5	4	8	10	9	9	1	
	Tappi	Mean	14	21	28	37	27	16	18	15	17	24	25	23	22	
		%	97	100	100	100	100	100	100	99	51	94	99	100	95	
		Max-d	34	54	67	100	65	51	61	38	35	58	103	112	112	
		Min-d	8	10	7	7	8	4	7	6	4	9	6	8	4	
	Sado-seki	Mean	18	21	37	34	29	18	19	14	17	24	19	21	23	
		%	75	78	100	100	100	100	100	100	100	100	97	100	96	
		Max-d	55	44	201	85	69	78	46	30	27	46	40	99	201	
		Min-d	7	7	8	6	8	7	7	6	9	10	6	7	6	
	Happo	Mean	7	6	18	23	20	14	15	11	15	10	7	14	14	
		%	88	80	98	99	100	100	88	89	42	7	99	90	82	
		Max-d	33	21	58	126	53	40	29	24	28	20	24	164	164	
		Min-d	N.D.	N.D.	4	2	3	3	5	2	6	3	2	2	N.D.	
	Ijira	Mean	11	10	26	26	28	27	31	20	20	19	11	13	20	
		%	100	100	100	100	100	99	100	99	100	99	99	100	100	
		Max-d	36	21	92	54	47	53	54	84	33	33	28	47	92	
		Min-d	2	4	7	6	9	9	12	7	10	9	2	5	2	
Oki	Mean	26	16	21	49	34	23	26	19	21	26	26	31	26		
	%	99	19	17	31	97	99	100	99	97	100	97	98	80		
	Max-d	79	30	33	70	89	120	65	40	36	49	68	87	120		
	Min-d	6	6	10	27	15	6	15	10	7	11	7	11	6		
Banryu	Mean	24	29	37	36	36	24	23	20	22	25	24	24	27		
	%	100	100	99	100	98	97	99	98	98	99	99	99	99		
	Max-d	80	57	103	62	151	69	39	37	33	41	71	63	151		
	Min-d	6	7	9	6	14	9	12	10	10	12	9	11	6		
Yusuhara	Mean	15	18	26	25	25	14	15	14	15	15	17	16	18		
	%	88	86	87	79	87	87	87	87	86	87	88	88	86		
	Max-d	54	42	99	42	63	37	26	35	29	26	54	54	99		
	Min-d	1	5	4	6	2	3	3	5	1	2	1	4	1		
Hedo	Mean	32	36	42	37	26	20	17	19	20	27	28	26	27		
	%	79	97	100	100	100	100	100	100	95	100	92	100	97		
	Max-d	96	79	101	75	73	99	48	35	42	46	53	46	101		
	Min-d	5	17	15	13	6	9	4	8	4	13	14	11	4		
Ogasawara	Mean	12	13	16	15	8	7	8	8	7	9	11	11	10		
	%	100	100	100	100	100	100	100	100	99	100	100	100	100		
	Max-d	33	26	47	33	29	11	13	16	11	18	25	24	47		
	Min-d	5	6	6	5	1	5	4	3	4	5	3	4	1		
Republic of Korea	Kanghwa	Mean	32	65	61	75	50	51	26	29	44	51	35	59	48	
		%	99	100	98	99	98	100	99	84	100	100	100	99	98	
		Max-d	43	111	70	80	72	77	52	51	52	89	49	82	111	
		Min-d	15	47	55	68	20	21	7	15	35	28	24	33	7	
	Cheju (Kosan)	Mean	53	70	47	72	47	51	38	44	43	45	38	46	50	
		%	97	78	98	99	99	100	99	99	98	99	100	100	97	
		Max-d	99	109	53	89	66	100	71	67	74	47	56	62	109	
		Min-d	22	47	38	59	23	16	17	26	27	41	28	30	16	
	Imsil	Mean	58	66	67	65	58	75	62	44	54	64	41	-	59	
		%	96	99	100	98	100	99	83	99	80	99	57	0	84	
		Max-d	95	101	80	86	71	114	126	74	63	105	55	-	126	
		Min-d	14	48	55	42	31	43	35	28	36	42	33	-	14	

Table 4.11 PM₁₀

Unit : µg/m ³			2008												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Thailand	Bangkok	Mean	74	64	58	36	35	33	27	29	30	37	44	67	43	
		%	97	97	94	100	100	87	100	100	100	100	90	32	91	
		Max-d	134	105	159	62	60	48	46	45	56	60	71	94	159	
		Min-d	32	27	31	19	21	18	15	17	15	12	19	36	12	
	Samutprakarn	Mean	-	-	-	-	-	-	-	20	32	40	42	49	66	45
		%	0	0	0	0	0	0	6	100	100	97	97	87	41	
		Max-d	-	-	-	-	-	-	-	22	47	64	58	75	112	112
		Min-d	-	-	-	-	-	-	-	17	15	22	14	24	28	14
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	67	40	33	-	-	25	-	-	27	-	37	
		%	0	0	42	27	48	0	0	55	0	0	40	0	18	
		Max-d	-	-	92	55	40	-	-	30	-	-	36	-	92	
		Min-d	-	-	43	33	25	-	-	21	-	-	18	-	18	
	Chiangmai (Mae Hia)	Mean	55	56	84	49	29	25	21	24	19	23	27	35	38	
		%	100	100	100	100	97	100	90	81	97	97	100	100	97	
		Max-d	89	94	142	99	46	43	47	46	26	41	44	46	142	
		Min-d	26	16	44	12	14	14	13	13	14	15	13	14	12	
	Nakhon Ratchasima	Mean	120	44	36	77	55	46	30	29	26	35	45	56	47	
		%	42	83	71	93	87	77	65	100	100	97	100	61	81	
Max-d		181	92	90	111	98	71	50	40	43	63	70	103	181		
Min-d		70	28	20	37	32	24	20	18	14	15	12	19	12		

Mean : monthly or annual arithmetic average values

Max-d : maximum values of daily data

Min-d : minimum values of daily data

% : monthly or annual percentages of period of available data

Table 4.12 PM_{2.5}

Unit : $\mu\text{g}/\text{m}^3$			2008												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Japan	Rishiri	Mean	7	7	11	18	11	7	9	6	8	-	9	8	9
		%	99	100	100	97	100	100	100	100	91	0	85	100	89
		Max-d	18	19	40	40	37	28	32	12	14	-	28	16	40
		Min-d	3	3	2	5	4	4	3	2	3	-	3	3	2
	Ochiishi	Mean	10	11	13	27	17	19	15	14	16	12	19	16	16
		%	100	100	100	92	99	100	100	99	100	99	47	100	95
		Max-d	18	19	29	830	41	157	104	48	152	39	60	92	830
		Min-d	5	5	6	N.D.	4	4	4	4	6	5	4	7	N.D.
	Oki	Mean	11	13	18	20	17	11	18	6	12	15	11	13	14
		%	99	98	100	99	97	97	48	14	93	99	98	97	87
		Max-d	42	36	47	35	59	23	26	8	19	27	27	31	59
		Min-d	3	4	5	5	6	3	9	4	5	6	4	5	3

Mean : monthly or annual arithmetic average values

Max-d : maximum values of daily data

Min-d : minimum values of daily data

% : monthly or annual percentages of period of available data

Table 4.13 Particulate matter component: SO₄²⁻

Unit : µg/m ³		2008													Annual
Country	Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
China	Hongwen	Mean	12.83	15.82	22.16	12.77	17.90	5.51	5.95	13.53	21.97	8.20	7.39	16.92	13.38
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	23.29	19.85	26.88	19.11	19.67	9.06	11.50	22.02	25.45	19.63	12.40	19.15	26.88
		Min-w	1.13	12.57	15.85	0.92	15.45	3.58	0.66	8.20	18.49	0.04	2.37	13.22	0.04
Indonesia	Serpong	Mean	0.29	0.16	4.53	1.87	0.04	0.39	0.36	0.20	0.29	0.26	0.18	0.11	0.71
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.57	0.32	7.63	3.36	0.08	0.39	0.45	0.27	0.33	0.39	0.19	0.14	7.63
		Min-2w	0.01	N.D.	1.43	0.37	N.D.	0.39	0.27	0.14	0.25	0.12	0.17	0.07	N.D.
Japan	Rishiri	Mean	1.49	1.69	2.74	4.22	4.53	4.06	2.97	2.20	3.06	3.49	2.68	2.14	2.94
		%	100	100	100	100	100	100	50	100	100	100	100	100	96
		Max-2w	1.65	1.71	3.17	5.13	4.91	6.37	2.97	2.72	3.27	4.50	2.70	2.87	6.37
		Min-2w	1.33	1.68	2.07	3.30	4.14	2.24	2.97	1.68	2.86	2.48	2.65	0.99	0.99
	Ochiishi	Mean				3.18	3.72	3.31	2.18	2.40	2.27	1.82	3.19	2.55	2.73
		%				100	100	100	100	100	100	100	100	100	100
		Max-2w				3.20	4.14	4.95	2.34	2.77	2.55	2.32	3.71	3.14	4.95
		Min-2w				3.16	3.30	1.66	2.02	2.03	1.99	1.31	2.67	1.96	1.31
	Tappi	Mean	2.48	5.46	5.55	5.80	5.67	5.52	5.17	2.88	2.75	4.73	5.29	4.43	4.67
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	2.90	5.91	5.92	6.90	5.90	7.46	5.68	3.69	3.23	7.49	6.48	7.73	7.73
		Min-2w	2.07	5.01	5.18	4.70	5.43	4.04	4.66	2.08	2.27	1.96	4.10	2.09	1.96
	Sado-seki	Mean	3.41	3.67	6.18	4.86	5.39	4.98	6.75	1.98	3.93	2.80	2.85	3.27	4.17
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	3.69	4.24	6.26	5.28	7.46	6.36	6.79	2.62	4.46	4.02	4.39	4.80	7.46
		Min-2w	3.13	3.10	6.10	4.44	3.31	3.43	6.72	1.33	3.40	1.58	1.31	2.23	1.31
	Happo	Mean	1.46	1.79	4.05	3.23	1.92	2.24	2.69	3.33	3.89	3.11	1.72	0.92	2.52
		%	100	100	100	100	100	100	100	100	100	100	100	68	96
		Max-2w	2.73	2.14	5.38	3.66	2.14	3.96	4.89	5.31	5.73	3.21	2.18	1.17	5.73
		Min-2w	0.20	1.45	2.72	2.81	1.70	0.33	0.48	1.35	2.05	3.02	1.26	0.68	0.20
	Ijira	Mean	2.54	2.73	6.22	4.62	6.95	6.45	9.55	4.07	5.07	4.56	2.94	2.17	4.78
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	3.47	3.24	7.75	5.49	7.36	6.76	9.90	4.98	7.20	5.11	4.08	2.58	9.90
		Min-2w	1.61	2.22	4.69	3.74	6.54	5.84	9.21	3.15	2.93	4.01	1.81	1.76	1.61
	Okii	Mean	2.57	3.88	2.76	6.75	1.39	5.07	10.21	4.49	4.78	3.96	4.63	4.00	4.54
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	3.25	4.99	5.31	6.82	1.94	6.00	10.86	6.08	4.86	5.67	5.44	4.57	10.86
		Min-2w	1.89	2.76	0.21	6.69	0.84	3.53	9.56	2.89	4.70	2.25	3.81	2.97	0.21
	Banryu	Mean	4.72	5.95	8.19	6.02	6.71	4.06	4.93	3.43	3.78	5.61	4.90	4.33	5.11
		%	100	100	100	85	100	100	100	100	100	100	100	100	96
		Max-2w	5.98	7.42	10.15	6.02	9.46	5.06	7.33	4.67	4.73	5.85	6.77	4.76	10.15
		Min-2w	3.46	4.49	6.24	6.02	3.97	2.21	2.52	2.19	2.83	5.38	3.04	3.55	2.19
	Yusuhara	Mean	1.28	5.94	7.64	6.22	8.49	5.26	5.46	5.36	5.52	3.52	0.79	0.60	4.54
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	2.44	6.93	8.16	6.30	10.34	6.33	5.52	5.76	5.73	3.79	1.13	0.76	10.34
		Min-2w	0.12	4.95	7.11	6.15	6.65	4.34	5.41	4.97	5.31	3.25	0.45	0.34	0.12
	Hedo	Mean	8.33	10.44	9.11	8.99	4.63	2.65	3.83	4.33	4.25	5.30	4.92	5.53	5.69
		%	100	50	100	100	100	100	100	100	100	100	100	100	96
		Max-2w	10.87	10.44	10.33	10.28	6.08	3.92	5.94	5.07	6.47	5.33	5.68	6.42	10.87
		Min-2w	5.78	10.44	7.90	7.70	3.19	1.77	1.71	3.59	2.03	5.27	4.17	4.67	1.71
	Ogasawara	Mean	3.96	4.66	4.32	4.33	1.94	1.96	1.24	2.29	1.11	1.20	4.18	2.59	2.72
		%	100	100	100	100	100	100	100	100	100	100	48	100	96
		Max-2w	5.16	5.73	4.80	6.16	2.07	2.16	1.25	2.91	1.50	1.40	4.18	3.03	6.16
		Min-2w	2.76	3.58	3.84	2.50	1.82	1.57	1.24	1.67	0.71	0.99	4.18	2.08	0.71
	Tokyo	Mean	2.81	2.76	5.73	4.88	6.91	6.58	9.08	5.57	7.27	5.37	3.20	2.34	5.15
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	3.55	3.29	5.90	5.49	7.13	7.08	9.22	6.68	10.06	7.25	3.51	3.20	10.06
		Min-2w	2.07	2.24	5.57	4.27	6.69	5.60	8.94	4.46	4.48	3.48	2.89	1.42	1.42
Malaysia	Tanah Rata	Mean	0.84	2.06	0.73	1.23	3.02	1.95	1.78	3.11	0.99	1.15	0.67	0.86	1.59
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.96	3.48	1.28	1.83	4.57	2.73	2.53	5.55	1.84	1.77	1.21	1.33	5.55
		Min-w	0.60	1.08	0.20	0.92	1.67	1.14	1.33	0.61	0.32	0.82	0.23	0.39	0.20
	Petaling Jaya	Mean	2.86	4.81	1.75	3.35	4.39	4.57	3.29	4.83	0.55	3.97	2.25	2.02	3.32
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	3.23	7.74	4.61	5.05	7.08	5.98	3.52	7.06	0.90	6.54	2.94	3.17	7.74
		Min-w	2.36	3.46	0.16	2.02	2.39	3.18	3.14	0.71	0.13	1.51	1.58	0.44	0.13
	Danum Valley	Mean	0.50	2.08	0.76	0.82	2.19	0.77	0.82	1.55	1.14	1.46	0.48	1.02	1.12
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.95	3.34	0.88	1.36	2.42	0.81	0.95	1.63	1.51	2.10	0.58	1.31	3.34
		Min-2w	0.06	0.81	0.65	0.06	1.97	0.73	0.69	1.46	0.86	0.82	0.39	0.73	0.06
Mongolia	Ulaanbaatar	Mean	-	-	-	-	0.88	1.99	1.54	1.06	0.22	2.91	-	-	1.33
		%	0	0	0	0	59	100	100	100	100	40	0	0	42
		Max-w	-	-	-	-	1.49	2.42	2.44	1.98	0.29	3.07	-	-	3.07
		Min-w	-	-	-	-	0.42	1.65	0.99	0.14	0.10	2.75	-	-	0.10
	Terej	Mean	2.12	1.89	3.20	3.83	1.32	0.55	1.09	1.91	0.61	0.73	0.43	0.78	1.42
		%	100	100	100	70	100	100	100	45	100	100	100	100	93
		Max-2w	2.66	1.98	4.38	3.83	1.93	0.74	1.82	1.91	1.21	1.16	0.86	1.24	4.38
		Min-2w	1.73	1.80	2.01	3.83	0.11	0.36	0.36	1.91	N.D.	0.29	N.D.	0.07	N.D.

Table 4.13 Particulate matter component: SO₄²⁻

Unit : µg/m ³			2008												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Philippines	Metro Manila	Mean	1.96	3.28	3.93	1.39	1.42	2.01	2.23	2.41	0.48	4.46	-	-	2.37	
		%	100	100	100	100	100	100	100	100	55	100	100	0	0	81
		Max-w	4.46	4.50	5.18	1.96	2.82	6.48	3.65	2.69	0.86	15.38	-	-	-	15.38
		Min-w	0.28	1.00	2.36	0.73	N.D.	N.D.	1.23	2.18	N.D.	N.D.	-	-	-	N.D.
	Los Banos	Mean	1.38	2.63	2.29	1.29	3.04	0.55	1.33	2.01	1.65	-	-	-	-	1.86
		%	100	100	100	100	100	100	100	100	52	0	0	0	0	71
		Max-w	2.18	4.36	4.41	2.77	5.80	1.42	1.87	3.08	1.94	-	-	-	-	5.80
		Min-w	0.50	1.43	0.20	N.D.	1.60	N.D.	0.84	0.39	1.36	-	-	-	-	N.D.
	Mt. Sto. Tomas	Mean	0.62	0.39	0.65	0.50	5.31	1.05	0.22	0.13	0.44	0.10	0.15	0.03	0.91	
		%	100	100	100	100	100	100	100	100	100	100	100	22	94	
		Max-w	0.96	0.41	1.15	1.32	21.20	1.74	0.58	0.23	0.62	0.19	0.32	0.03	21.20	
		Min-w	0.31	0.38	N.D.	0.10	0.82	0.04	N.D.	N.D.	0.26	N.D.	0.04	0.03	N.D.	
Republic of Korea	Kanghwa	Mean	2.39	9.54	11.01	17.83	7.36	7.05	4.05	3.79	4.97	10.01	4.84	12.75	8.44	
		%	16	17	16	17	16	13	6	13	10	13	13	16	14	
		Max-d	6.62	18.15	20.19	28.05	17.32	13.82	5.79	7.80	7.94	27.91	9.26	23.92	28.05	
		Min-d	0.31	4.59	5.33	11.70	0.52	0.58	2.30	1.40	0.41	3.32	2.42	3.40	0.31	
	Cheju (Kosan)	Mean	14.54	4.45	8.40	22.01	21.08	-	15.84	32.68	20.03	-	14.54	15.51	14.92	
		%	16	14	16	13	10	0	19	3	3	0	17	16	11	
		Max-d	47.12	16.45	20.14	30.78	33.71	-	52.27	32.68	20.03	-	29.03	33.67	52.27	
		Min-d	1.68	0.23	4.61	9.11	9.92	-	2.77	32.68	20.03	-	2.34	4.05	0.23	
	Imsil	Mean	1.61	7.03	9.84	19.15	19.50	-	-	14.58	12.66	-	4.82	7.65	11.32	
		%	3	3	10	13	6	0	0	16	13	0	17	16	8	
		Max-d	1.61	7.03	14.79	35.45	19.82	-	-	38.27	20.15	-	6.99	29.12	38.27	
		Min-d	1.61	7.03	0.80	0.92	19.18	-	-	N.D.	1.19	-	2.17	0.13	N.D.	
Russia	Mondy	Mean	0.22	0.35	0.18	0.19	0.52	0.72	0.52	0.36	0.69	0.17	0.39	0.24	0.38	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-m	0.22	0.35	0.18	0.19	0.52	0.72	0.52	0.36	0.69	0.17	0.39	0.24	0.72	
		Min-m	0.22	0.35	0.18	0.19	0.52	0.72	0.52	0.36	0.69	0.17	0.39	0.24	0.17	
	Listvianka	Mean	1.84	1.58	1.13	1.03	1.98	1.31	0.24	0.27	0.42	0.77	0.23	1.02	1.02	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	2.65	2.45	1.63	1.32	3.00	2.40	0.38	0.28	0.96	1.87	0.49	1.70	3.00	
		Min-w	1.24	0.77	0.74	0.67	1.33	0.47	0.16	0.26	0.08	0.15	N.D.	0.39	N.D.	
	Irkutsk	Mean	4.67	1.81	1.83	2.75	2.02	1.78	1.72	1.76	1.12	1.71	3.11	6.54	2.55	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	8.79	5.22	2.21	3.61	3.08	2.35	1.81	2.23	1.95	3.17	6.34	18.40	18.40	
		Min-w	0.41	0.46	0.96	1.96	0.26	1.37	1.63	1.42	0.46	0.87	0.75	1.00	0.26	
Primorskaya	Mean	4.38	4.79	4.09	6.09	4.46	2.21	1.29	2.66	1.10	5.63	3.15	3.26	3.59		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	4.43	4.82	4.10	6.57	4.50	3.10	2.13	4.51	1.45	7.97	3.45	3.30	7.97		
	Min-2w	4.33	4.75	4.08	5.61	4.43	1.32	0.45	0.81	0.75	3.28	2.86	3.21	0.45		
Thailand	Bangkok	Mean	5.56	0.48	4.62	3.75	2.42	0.28	1.00	1.48	1.18	3.00	4.82	4.14	2.65	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-10d	5.84	1.40	9.00	4.44	3.64	0.74	1.88	1.90	3.52	4.24	6.97	11.90	11.90	
		Min-10d	5.28	N.D.	0.05	2.82	0.05	0.04	0.15	0.79	N.D.	1.87	2.41	0.21	N.D.	
	Patumthani	Mean	5.87	5.65	3.09	1.78	0.19	0.22	0.11	0.06	0.11	0.01	0.09	0.14	1.41	
		%	100	62	67	68	30	100	100	100	100	100	100	39	81	
		Max-10d	11.77	6.10	6.08	2.26	0.19	0.57	0.28	0.13	0.17	0.04	0.12	0.14	11.77	
		Min-10d	0.34	5.20	0.11	1.30	0.19	0.03	0.03	0.03	0.05	N.D.	0.07	0.14	N.D.	
	Khanchanaburi (Vachiralongkom Dam)	Mean	-	-	2.03	-	-	-	-	0.75	-	-	4.82	-	2.54	
		%	0	0	42	0	0	0	0	62	0	0	76	0	13	
		Max-2w	-	-	2.03	-	-	-	-	0.75	-	-	4.82	-	4.82	
		Min-2w	-	-	2.03	-	-	-	-	0.75	-	-	4.82	-	0.75	
Chiangmai (Mae Hia)	Mean	3.15	3.54	3.23	2.56	1.06	0.64	0.49	0.35	0.54	1.68	2.29	1.48	1.75		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-10d	4.86	4.13	9.21	6.54	3.08	1.00	1.22	0.52	1.32	4.57	4.51	3.73	9.21		
	Min-10d	1.97	3.11	0.19	0.45	0.01	0.08	0.05	0.24	0.09	0.06	0.85	0.32	0.01		
Nakhon Ratchasima	Mean	5.74	5.19	6.31	3.86	3.20	1.07	1.91	1.93	1.06	3.43	4.52	7.14	3.78		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-10d	9.77	7.79	8.33	4.72	4.59	1.65	2.52	2.35	1.65	7.27	7.03	13.00	13.00		
	Min-10d	3.65	3.80	3.81	3.12	2.43	0.70	1.47	1.60	0.76	0.73	0.21	0.78	0.21		
Viet Nam	Ha Noi	Mean	9.04	22.47	11.15	3.57	12.70	3.92	5.75	2.54	15.97	13.68	6.98	5.78	9.53	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	13.31	46.95	27.89	5.82	28.34	7.43	11.98	3.46	43.38	24.51	10.76	7.72	46.95	
		Min-w	3.25	6.33	1.19	1.72	2.98	0.71	1.14	1.82	4.87	6.48	3.34	3.38	0.71	
	Hoa Binh	Mean	20.07	3.68	1.33	2.67	4.86	0.45	0.49	1.43	2.21	6.25	3.03	4.24	4.51	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	47.55	8.45	2.66	6.40	12.99	0.59	1.39	2.03	4.58	8.59	4.43	11.15	47.55	
		Min-w	0.53	0.13	0.15	0.26	0.62	0.27	0.20	0.87	0.34	3.92	0.87	0.53	0.13	

Mean : monthly or annual arithmetic average values
 Max-d : maximum values of daily data
 Min-d : minimum values of daily data
 Max-10d : maximum values of 10-day interval data
 Min-10d : minimum values of 10-day interval data
 Max-w : maximum values of weekly data
 Min-w : minimum values of weekly data
 Max-2w : maximum values of biweekly data
 Min-2w : minimum values of biweekly data
 Max-m : maximum values of monthly data
 Min-m : minimum values of monthly data
 % : monthly or annual percentages of period of available data

Table 4.14 Particulate matter component: NO₃⁻

Unit : µg/m ³			2008												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
China	Hongwen	Mean	11.63	10.50	16.09	7.83	9.39	2.79	3.21	6.30	4.55	3.41	3.03	14.88	8.10
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	21.16	13.56	22.88	13.58	11.44	3.16	5.30	6.97	5.88	7.51	5.31	17.32	22.88
		Min-w	3.43	8.04	10.37	0.38	8.14	2.26	0.22	5.86	3.22	0.05	0.74	12.35	0.05
Indonesia	Serpong	Mean	0.02	0.10	0.46	0.38	0.76	0.22	0.10	0.02	0.10	0.10	0.03	N.D.	0.18
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.04	0.15	0.71	0.60	1.35	0.22	0.12	0.04	0.11	0.15	0.04	0.02	1.35
		Min-2w	N.D.	0.04	0.21	0.15	0.17	0.22	0.07	N.D.	0.08	0.06	0.02	N.D.	N.D.
Japan	Rishiri	Mean	0.42	0.36	1.06	1.54	1.01	0.42	0.61	0.48	0.70	0.93	0.97	0.64	0.76
		%	100	100	100	100	100	100	50	100	100	100	100	100	96
		Max-2w	0.56	0.44	1.63	1.92	1.42	0.64	0.61	0.67	0.70	1.08	1.14	1.04	1.92
		Min-2w	0.28	0.28	0.74	1.16	0.60	0.25	0.61	0.29	0.70	0.79	0.81	0.16	0.16
	Ochiishi	Mean				1.06	0.90	0.74	0.24	0.42	0.78	0.60	0.88	0.75	0.71
		%				100	100	100	100	100	100	100	100	100	100
		Max-2w				1.25	1.09	1.12	0.24	0.47	0.94	0.97	0.92	0.99	1.25
		Min-2w				0.88	0.70	0.35	0.24	0.37	0.61	0.23	0.83	0.51	0.23
	Tappi	Mean	0.68	1.64	2.61	2.28	2.23	0.80	0.31	0.62	0.83	0.78	1.31	0.96	1.23
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.83	2.50	2.71	2.76	2.30	1.12	0.54	0.63	1.31	0.98	1.94	1.62	2.76
		Min-2w	0.53	0.77	2.51	1.79	2.17	0.59	0.08	0.61	0.36	0.58	0.69	0.62	0.08
	Sado-seki	Mean	0.94	0.87	2.95	1.93	1.41	0.86	0.18	0.58	0.95	0.87	0.93	0.64	1.07
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.22	1.15	3.00	2.27	1.73	1.16	0.23	1.06	1.29	1.46	1.57	0.70	3.00
		Min-2w	0.66	0.59	2.90	1.58	1.10	0.64	0.13	0.10	0.62	0.28	0.28	0.59	0.10
	Happo	Mean	N.D.	0.08	0.68	0.64	0.58	0.13	0.03	0.02	0.03	0.10	0.29	0.11	0.22
		%	100	100	100	100	100	100	100	100	100	100	100	68	96
		Max-2w	N.D.	0.17	0.80	0.84	0.84	0.22	0.06	0.04	0.07	0.15	0.50	0.19	0.84
		Min-2w	N.D.	N.D.	0.56	0.44	0.31	N.D.	N.D.	N.D.	N.D.	0.06	0.08	0.03	N.D.
	Ijira	Mean	0.38	0.38	1.11	0.57	0.32	0.28	0.13	0.18	0.16	0.41	0.40	0.45	0.39
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.40	0.53	1.55	0.58	0.39	0.35	0.13	0.27	0.21	0.42	0.52	0.78	1.55
		Min-2w	0.35	0.22	0.68	0.55	0.25	0.16	0.12	0.09	0.11	0.41	0.27	0.22	0.09
	Oki	Mean	0.97	1.60	1.04	2.38	0.35	1.11	0.58	0.86	0.99	0.99	1.94	1.65	1.22
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.53	2.53	2.00	2.81	0.61	1.68	0.71	0.90	1.05	1.50	2.45	2.37	2.81
		Min-2w	0.40	0.67	0.07	1.94	0.08	0.68	0.45	0.83	0.94	0.48	1.43	0.94	0.07
	Banryu	Mean	1.67	2.69	2.54	2.29	0.70	0.66	0.34	0.71	0.78	0.83	1.91	1.75	1.35
		%	100	100	100	85	100	100	100	100	100	100	100	100	96
		Max-2w	1.77	3.24	2.64	2.29	0.73	0.99	0.42	1.01	0.88	0.93	2.35	2.04	3.24
		Min-2w	1.56	2.13	2.43	2.29	0.67	0.20	0.27	0.41	0.68	0.72	1.47	1.34	0.20
	Yusuhabara	Mean	0.14	1.21	1.05	0.61	0.35	0.03	0.02	0.03	0.06	0.08	0.06	0.12	0.29
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.19	1.51	1.33	0.66	0.69	0.04	0.02	0.05	0.11	0.12	0.07	0.15	1.51
		Min-2w	0.09	0.90	0.77	0.56	N.D.	N.D.	N.D.	0.02	N.D.	0.05	0.05	0.10	N.D.
	Hedo	Mean	1.08	3.04	2.81	2.54	1.35	0.90	0.45	1.34	0.87	1.79	1.38	1.70	1.52
		%	100	50	100	100	100	100	100	100	100	100	100	100	96
		Max-2w	1.08	3.04	3.35	2.60	1.68	1.23	0.59	1.79	1.19	1.81	1.43	2.07	3.35
		Min-2w	1.08	3.04	2.27	2.49	1.01	0.57	0.32	0.88	0.55	1.78	1.33	1.33	0.32
	Ogasawara	Mean	0.65	1.08	0.90	1.23	0.32	0.29	0.30	0.35	0.19	0.26	0.81	0.69	0.57
		%	100	100	100	100	100	100	100	100	100	100	100	48	100
		Max-2w	0.76	1.38	0.91	1.68	0.36	0.40	0.37	0.54	0.23	0.33	0.81	0.81	1.68
		Min-2w	0.53	0.78	0.88	0.78	0.27	0.15	0.24	0.16	0.15	0.18	0.81	0.62	0.15
	Tokyo	Mean	4.96	4.24	5.66	4.55	4.08	3.87	2.32	2.40	2.87	4.20	5.54	3.89	4.03
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	5.87	4.77	6.09	4.96	4.49	5.41	2.66	2.63	3.25	4.71	6.45	6.25	6.45
		Min-2w	4.05	3.71	5.23	4.14	3.68	2.85	1.97	2.16	2.48	3.68	4.62	1.78	1.78
Malaysia	Tanah Rata	Mean	0.13	0.32	0.07	0.06	0.32	0.10	0.09	0.43	0.07	0.04	0.05	0.13	0.16
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.25	0.57	0.15	0.08	0.80	0.17	0.18	1.24	0.08	0.12	0.07	0.17	1.24
		Min-w	0.03	0.10	0.02	0.04	0.02	0.03	0.04	0.02	0.04	N.D.	0.03	0.10	N.D.
	Petaling Jaya	Mean	1.53	1.96	0.50	1.04	2.02	1.31	1.52	1.35	0.17	0.23	0.95	1.25	1.17
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	2.06	2.76	1.14	1.21	2.56	1.56	1.77	2.42	0.27	0.45	1.04	2.20	2.76
		Min-w	1.31	1.32	0.06	0.66	0.60	0.87	1.08	0.25	0.04	0.01	0.81	0.44	0.01
	Danum Valley	Mean	0.10	0.11	0.03	0.05	N.D.	0.04	0.09	0.05	0.03	0.01	0.07	0.22	0.06
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.20	0.19	0.03	0.10	0.01	0.06	0.11	0.08	0.05	0.02	0.08	0.30	0.30
		Min-2w	N.D.	0.03	0.02	0.01	N.D.	0.03	0.07	0.03	N.D.	N.D.	0.06	0.14	N.D.
Mongolia	Ulaanbaatar	Mean	-	-	-	-	1.00	1.63	1.17	0.43	0.07	1.25	-	-	0.90
		%	0	0	0	0	59	100	100	100	100	40	0	0	42
		Max-w	-	-	-	-	1.26	2.08	1.43	0.88	0.28	1.28	-	-	2.08
		Min-w	-	-	-	-	0.84	1.39	0.88	N.D.	N.D.	1.22	-	-	N.D.
	Terej	Mean	1.82	0.92	1.88	1.33	0.47	0.16	0.19	0.25	0.13	0.23	0.18	0.15	0.65
		%	100	100	100	70	100	100	100	45	100	100	100	100	93
		Max-2w	2.79	0.94	3.01	1.33	0.89	0.17	0.21	0.25	0.25	0.26	0.23	0.24	3.01
		Min-2w	0.53	0.89	0.74	1.33	0.13	0.14	0.16	0.25	N.D.	0.19	0.12	N.D.	N.D.

Table 4.14 Particulate matter component: NO₃⁻

Unit : µg/m ³		2008												Annual	
Country	Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Philippines	Metro Manila	Mean	0.99	1.23	1.43	0.68	0.69	1.10	0.53	0.73	0.36	2.01	-	-	0.99
		%	100	100	100	100	100	100	100	55	100	100	0	0	81
		Max-w	3.41	1.73	2.16	1.05	1.43	4.24	0.96	1.04	0.72	5.07	-	-	5.07
		Min-w	N.D.	0.52	0.92	0.38	N.D.	N.D.	0.18	0.42	0.12	0.61	-	-	N.D.
	Los Banos	Mean	0.18	0.72	0.26	0.21	0.13	0.12	0.13	0.17	0.86	-	-	-	0.27
		%	100	100	100	100	100	100	100	100	52	0	0	0	71
		Max-w	0.40	1.93	0.44	0.61	0.41	0.18	0.26	0.32	1.32	-	-	-	1.93
		Min-w	0.02	0.24	N.D.	0.02	0.02	N.D.	0.02	0.03	0.41	-	-	-	N.D.
	Mt. Sto. Tomas	Mean	0.30	0.45	1.95	0.56	4.54	4.06	0.13	0.15	0.35	0.22	0.08	N.D.	1.15
		%	100	100	100	100	100	100	100	100	100	100	100	22	94
		Max-w	0.71	0.73	5.98	0.87	12.17	11.61	0.32	0.25	0.57	0.55	0.32	N.D.	12.17
		Min-w	N.D.	N.D.	N.D.	0.36	N.D.	0.04	N.D.	0.03	0.14	N.D.	N.D.	N.D.	N.D.
Republic of Korea	Kanghwa	Mean	1.69	4.40	4.11	2.39	1.03	0.75	0.07	0.07	0.14	0.96	0.81	3.73	1.92
		%	16	17	16	17	16	13	6	13	10	13	13	16	14
		Max-d	3.54	7.14	6.66	6.19	2.20	1.16	0.11	0.18	0.16	2.88	1.41	7.63	7.63
		Min-d	0.21	1.51	1.60	0.35	0.24	0.36	0.03	N.D.	0.12	0.25	0.19	0.87	N.D.
	Cheju (Kosan)	Mean	0.37	0.23	0.43	0.53	0.36	-	0.14	0.16	0.11	-	0.27	0.54	0.34
		%	16	14	16	13	10	0	19	3	3	0	17	16	11
		Max-d	0.67	0.79	1.04	1.20	0.50	-	0.22	0.16	0.11	-	0.35	0.99	1.20
		Min-d	0.18	N.D.	0.17	0.10	0.26	-	0.02	0.16	0.11	-	0.15	0.18	N.D.
	Imsil	Mean	12.71	2.37	6.49	4.30	1.99	-	-	0.29	0.60	-	2.72	2.54	2.86
		%	3	3	10	13	6	0	0	16	13	0	17	16	8
		Max-d	12.71	2.37	7.40	13.14	2.09	-	-	0.72	1.38	-	5.11	10.17	13.14
		Min-d	12.71	2.37	5.58	0.78	1.88	-	-	N.D.	0.14	-	1.60	0.11	N.D.
Russia	Mondy	Mean	N.D.	0.02	0.02	0.03	0.18	0.05	0.03	1.13	N.D.	0.02	0.03	0.03	0.13
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-m	N.D.	0.02	0.02	0.03	0.18	0.05	0.03	1.13	N.D.	0.02	0.03	0.03	1.13
		Min-m	N.D.	0.02	0.02	0.03	0.18	0.05	0.03	1.13	N.D.	0.02	0.03	0.03	N.D.
	Listvianka	Mean	0.38	0.22	0.18	0.11	0.33	0.20	0.10	0.11	0.10	0.23	0.03	0.28	0.20
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.51	0.38	0.28	0.15	0.79	0.28	0.22	0.34	0.18	0.48	0.14	0.50	0.79
		Min-w	0.16	0.11	0.09	0.07	0.19	0.13	N.D.	N.D.	N.D.	N.D.	N.D.	0.15	N.D.
	Irkutsk	Mean	1.86	1.60	0.50	0.91	1.09	0.59	0.30	0.45	0.25	0.60	1.10	1.39	0.89
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	3.60	2.45	0.90	1.27	3.07	1.05	0.33	0.86	0.50	0.92	2.48	2.92	3.60
		Min-w	N.D.	0.25	0.19	0.65	0.07	0.33	0.27	0.23	N.D.	0.31	0.20	0.16	N.D.
Primorskaya	Mean	1.40	1.61	1.90	1.65	0.63	0.22	N.D.	0.07	0.03	1.06	2.01	1.77	1.03	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-2w	1.64	1.78	2.51	1.71	0.67	0.36	0.02	0.08	0.05	1.22	2.45	2.06	2.51	
	Min-2w	1.16	1.44	1.29	1.59	0.59	0.09	N.D.	0.06	0.01	0.89	1.58	1.48	N.D.	
Thailand	Bangkok	Mean	3.30	0.13	1.46	2.14	1.59	N.D.	0.74	2.50	0.88	1.62	2.22	1.29	1.44
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	3.69	0.34	2.44	2.69	2.38	N.D.	1.09	4.42	1.80	1.98	2.93	3.11	4.42
		Min-10d	2.90	0.02	0.03	1.56	0.02	N.D.	0.08	1.01	N.D.	1.17	1.54	0.21	N.D.
	Patumthani	Mean	2.65	2.65	1.29	1.44	0.28	0.04	0.04	0.53	0.07	0.04	0.38	0.05	0.77
		%	100	62	67	68	30	100	100	100	100	100	100	39	81
		Max-10d	4.11	2.80	2.55	1.45	0.28	0.09	0.08	1.54	0.15	0.07	1.05	0.05	4.11
		Min-10d	0.09	2.49	0.03	1.43	0.28	N.D.	0.01	0.01	N.D.	0.01	0.04	0.05	N.D.
	Khanchanaburi (Vachiralongkom Dam)	Mean	-	-	0.10	-	-	-	-	0.10	-	-	0.26	-	0.15
		%	0	0	42	0	0	0	0	62	0	0	76	0	12
		Max-2w	-	-	0.10	-	-	-	-	0.10	-	-	0.26	-	0.26
		Min-2w	-	-	0.10	-	-	-	-	0.10	-	-	0.26	-	0.10
Chiangmai (Mae Hia)	Mean	0.83	0.70	0.36	0.46	0.29	0.42	0.29	0.22	0.21	0.11	0.19	0.20	0.36	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-10d	1.01	0.94	0.54	0.64	0.62	0.86	0.83	0.65	0.63	0.12	0.37	0.40	1.01	
	Min-10d	0.49	0.29	N.D.	0.36	0.11	0.08	N.D.	N.D.	N.D.	0.09	0.07	0.03	N.D.	
Nakhon Ratchasima	Mean	0.38	0.66	0.52	0.11	0.85	0.48	0.59	0.44	0.28	0.12	0.28	0.22	0.41	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-10d	0.65	0.70	0.79	0.17	1.08	0.97	0.83	0.54	0.52	0.13	0.38	0.34	1.08	
	Min-10d	0.18	0.60	0.24	0.07	0.69	0.10	0.37	0.24	0.08	0.09	0.09	0.12	0.07	
Viet Nam	Ha Noi	Mean	4.22	5.57	2.80	2.21	3.86	1.13	2.75	1.17	3.17	3.05	2.18	1.99	2.89
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	8.68	9.54	4.30	4.18	8.93	1.55	4.84	1.70	6.02	4.96	3.44	2.55	9.54
		Min-w	0.96	3.05	0.34	0.47	1.64	0.79	0.62	0.33	1.79	1.44	1.09	1.63	0.33
	Hoa Binh	Mean	5.63	4.71	0.21	0.34	0.28	0.10	0.18	0.45	0.25	0.63	0.48	1.15	1.24
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	12.02	10.66	0.50	0.64	0.69	0.17	0.71	0.76	0.40	0.97	0.64	2.49	12.02
		Min-w	0.14	0.03	0.07	0.07	0.06	0.07	0.02	0.13	0.06	0.36	0.09	0.31	0.02

Mean : monthly or annual arithmetic average values
 Max-d : maximum values of daily data
 Min-d : minimum values of daily data
 Max-10d : maximum values of 10-day interval data
 Min-10d : minimum values of 10-day interval data
 Max-w : maximum values of weekly data
 Min-w : minimum values of weekly data
 Max-2w : maximum values of biweekly data
 Min-2w : minimum values of biweekly data
 Max-m : maximum values of monthly data
 Min-m : minimum values of monthly data
 % : monthly or annual percentages of period of available data

Table 4.15 Particulate matter component: CT

Unit : $\mu\text{g}/\text{m}^3$			2008												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
China	Hongwen	Mean	3.93	2.35	3.61	0.86	0.94	1.66	0.72	1.11	0.90	0.79	0.59	3.81	1.85
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	9.52	3.04	5.14	1.37	1.22	2.71	1.60	2.22	1.57	1.97	0.99	4.24	9.52
		Min-w	0.75	1.80	2.32	N.D.	0.71	0.47	0.03	0.29	0.24	0.09	0.19	3.50	N.D.
Indonesia	Serpong	Mean	0.13	0.09	0.24	0.11	0.49	0.05	N.D.	N.D.	0.03	0.03	N.D.	0.03	0.10
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.25	0.09	0.31	0.13	0.98	0.05	0.01	N.D.	0.05	0.04	N.D.	0.08	0.98
		Min-2w	N.D.	0.08	0.16	0.10	N.D.	0.05	N.D.	N.D.	N.D.	0.02	N.D.	N.D.	N.D.
Japan	Rishiri	Mean	1.76	1.40	1.93	0.97	1.25	0.33	1.42	0.80	4.23	4.96	4.10	3.32	2.20
		%	100	100	100	100	100	100	50	100	100	100	100	100	96
		Max-2w	2.72	2.38	3.76	1.27	2.25	0.40	1.42	1.36	7.15	5.85	5.14	4.53	7.15
		Min-2w	0.79	0.42	0.64	0.67	0.26	0.21	1.42	0.24	1.30	4.06	3.06	1.67	0.21
	Ochiishi	Mean				4.24	6.70	1.15	0.24	1.38	3.10	5.85	9.65	7.67	4.44
		%				100	100	100	100	100	100	100	100	100	100
		Max-2w				5.43	9.94	1.67	0.32	2.34	5.43	5.91	14.51	10.27	14.51
		Min-2w				3.05	3.46	0.62	0.15	0.43	0.76	5.79	4.78	5.07	0.15
	Tappi	Mean	6.16	15.59	3.24	4.14	4.27	0.20	0.17	0.50	5.32	4.07	25.06	25.69	8.26
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	7.88	23.49	4.84	4.79	4.92	0.29	0.32	0.50	10.26	5.69	32.92	66.83	66.83
		Min-2w	4.44	7.70	1.64	3.48	3.61	0.04	0.03	0.49	0.38	2.45	17.20	4.85	0.03
	Sado-seki	Mean	7.77	8.86	3.24	3.64	1.78	0.32	0.16	1.62	2.67	2.03	7.77	13.25	4.61
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	8.30	10.27	3.43	5.20	3.01	0.52	0.29	2.92	5.00	2.68	10.80	25.71	25.71
		Min-2w	7.24	7.45	3.05	2.07	0.56	0.11	0.03	0.33	0.34	1.37	4.74	4.18	0.03
	Happo	Mean	N.D.	N.D.	0.01	0.02	0.02	0.01	N.D.	N.D.	0.02	0.02	0.02	N.D.	0.01
		%	100	100	100	100	100	100	100	100	100	100	100	68	96
		Max-2w	N.D.	0.01	0.02	0.02	0.03	0.02	N.D.	N.D.	0.04	0.03	0.05	0.02	0.05
		Min-2w	N.D.	N.D.	N.D.	0.01	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Ijira	Mean	0.03	0.04	0.03	0.02	0.02	0.01	N.D.	0.03	0.04	0.07	0.07	0.08	0.04
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.04	0.06	0.04	0.03	0.02	0.02	0.01	0.05	0.08	0.08	0.08	0.12	0.12
		Min-2w	0.02	0.02	0.02	0.02	0.01	N.D.	N.D.	N.D.	N.D.	0.06	0.06	0.05	N.D.
	Okii	Mean	2.79	5.35	1.82	2.07	0.34	0.70	0.28	3.08	1.52	0.84	5.87	6.79	2.71
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	2.95	6.42	3.56	2.35	0.62	1.08	0.28	5.05	2.74	1.05	6.48	9.67	9.67
		Min-2w	2.63	4.29	0.07	1.78	0.07	0.37	0.27	1.11	0.30	0.63	5.26	4.95	0.07
	Banryu	Mean	1.67	3.09	1.59	1.58	0.44	0.12	0.06	1.37	0.85	0.40	1.16	1.69	1.13
		%	100	100	100	85	100	100	100	100	100	100	100	100	96
		Max-2w	1.88	3.38	2.63	1.58	0.84	0.14	0.07	2.63	1.53	0.50	1.72	3.03	3.38
		Min-2w	1.46	2.80	0.54	1.58	0.04	0.11	0.05	0.11	0.17	0.29	0.59	0.68	0.04
	Yusuvara	Mean	0.03	0.10	0.02	0.05	0.16	N.D.	N.D.	N.D.	0.01	N.D.	N.D.	0.03	0.03
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.03	0.15	0.04	0.08	0.21	N.D.	N.D.	N.D.	0.02	N.D.	N.D.	0.05	0.21
		Min-2w	0.02	0.04	0.01	N.D.	0.10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.02	N.D.
	Hedo	Mean	4.81	5.67	5.08	4.17	4.16	2.27	1.49	3.32	2.80	5.86	5.78	7.55	4.40
		%	100	50	100	100	100	100	100	100	100	100	100	100	96
		Max-2w	5.67	5.67	5.91	4.20	5.12	2.46	1.52	5.62	3.63	6.83	8.30	8.57	8.57
		Min-2w	3.96	5.67	4.25	4.14	3.21	1.94	1.46	1.03	1.97	4.88	3.26	5.86	1.03
	Ogasawara	Mean	2.97	5.18	4.13	2.72	3.21	1.61	1.77	2.19	1.59	4.11	1.16	4.76	3.04
		%	100	100	100	100	100	100	100	100	100	100	48	100	96
		Max-2w	3.05	5.53	4.30	2.86	5.30	2.67	2.32	2.36	2.01	5.37	1.16	5.12	5.53
		Min-2w	2.88	4.83	3.96	2.58	1.12	0.87	1.22	2.01	1.17	2.86	1.16	4.16	0.87
	Tokyo	Mean	1.15	0.75	0.91	0.56	0.27	0.23	0.14	0.18	0.31	0.83	1.05	1.10	0.63
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.52	0.86	1.01	0.58	0.35	0.29	0.17	0.18	0.46	1.21	1.07	1.53	1.53
		Min-2w	0.78	0.64	0.82	0.53	0.19	0.14	0.11	0.18	0.17	0.45	1.04	0.73	0.11
Malaysia	Tanah Rata	Mean	0.04	0.05	0.02	N.D.	0.02	N.D.	0.01	0.02	0.01	N.D.	0.01	0.06	0.02
		%	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.11	0.08	0.05	N.D.	0.05	0.01	0.02	0.05	0.02	N.D.	0.02	0.09	0.11
		Min-w	N.D.	0.03	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.04	N.D.
	Petaling Jaya	Mean	0.10	0.16	0.05	0.06	0.14	0.07	0.13	0.09	0.01	0.03	0.08	0.11	0.09
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.15	0.23	0.11	0.08	0.27	0.10	0.16	0.14	0.02	0.06	0.09	0.18	0.27
		Min-w	0.07	0.07	0.01	0.04	0.04	0.05	0.11	0.01	N.D.	N.D.	0.06	0.08	N.D.
	Danum Valley	Mean	0.20	0.07	0.02	N.D.	N.D.	N.D.	0.03	N.D.	N.D.	N.D.	0.05	0.13	0.04
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.40	0.11	0.03	0.01	N.D.	N.D.	0.04	N.D.	N.D.	N.D.	0.07	0.13	0.40
		Min-2w	N.D.	0.02	N.D.	N.D.	N.D.	N.D.	0.01	N.D.	N.D.	N.D.	0.02	0.13	N.D.
Mongolia	Ulaanbaatar	Mean	-	-	-	-	0.54	0.63	0.29	0.47	0.21	1.01	-	-	0.47
		%	0	0	0	0	59	100	100	100	100	40	0	0	42
		Max-w	-	-	-	-	0.59	0.78	0.45	0.87	0.24	1.05	-	-	1.05
		Min-w	-	-	-	-	0.47	0.54	0.14	0.22	0.18	0.96	-	-	0.14
	Terej	Mean	0.43	0.27	0.35	0.32	0.25	0.08	0.15	0.13	0.11	0.11	0.12	0.35	0.24
		%	100	100	100	70	100	100	100	45	100	100	100	100	93
		Max-2w	0.67	0.27	0.44	0.32	0.30	0.12	0.17	0.13	0.12	0.15	0.16	0.89	0.89
		Min-2w	0.25	0.27	0.26	0.32	0.22	0.04	0.12	0.13	0.10	0.07	0.08	0.05	0.04

Table 4.15 Particulate matter component: CT

Unit : $\mu\text{g}/\text{m}^3$		2008												Annual	
Country	Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Philippines	Metro Manila	Mean	1.25	0.61	0.72	0.56	0.10	0.84	0.37	0.41	0.23	0.53	-	-	0.59
		%	100	100	100	100	100	100	100	55	100	100	0	0	81
		Max-w	3.55	0.88	1.00	0.97	0.28	3.86	0.58	0.81	0.90	2.04	-	-	3.86
		Min-w	0.03	0.12	0.38	0.22	N.D.	N.D.	0.22	0.16	N.D.	N.D.	-	-	N.D.
	Los Banos	Mean	1.56	1.61	1.26	0.88	0.27	0.17	0.28	0.15	1.90	-	-	-	0.82
		%	100	100	100	100	100	100	100	100	52	0	0	0	71
		Max-w	2.18	2.43	3.18	1.36	1.25	0.43	0.89	0.29	3.70	-	-	-	3.70
		Min-w	0.70	0.95	0.33	0.27	N.D.	N.D.	0.05	N.D.	0.09	-	-	-	N.D.
	Mt. Sto. Tomas	Mean	0.97	0.68	0.32	0.20	0.18	0.15	0.57	0.16	0.44	0.08	0.08	0.06	0.35
		%	100	100	100	100	100	100	100	100	100	100	100	22	94
		Max-w	1.88	0.95	0.54	0.48	0.31	0.48	2.23	0.30	0.85	0.11	0.20	0.06	2.23
		Min-w	0.66	0.58	0.11	0.03	N.D.	0.02	0.07	0.06	0.09	0.01	N.D.	0.06	N.D.
Republic of Korea	Kanghwa	Mean	0.88	3.52	4.06	6.58	2.72	2.60	1.49	1.40	1.84	3.70	1.79	4.71	0.07
		%	16	17	16	17	16	13	6	13	10	13	13	16	14
		Max-d	2.44	6.70	7.45	10.35	6.39	5.10	2.14	2.88	2.93	10.30	3.42	8.83	10.35
		Min-d	0.12	1.69	1.97	4.32	0.19	0.21	0.85	0.52	0.15	1.23	0.89	1.25	0.12
	Cheju (Kosan)	Mean	0.16	0.15	0.08	0.04	0.09	-	0.10	0.02	0.03	-	0.22	0.13	0.12
		%	16	14	16	13	10	0	19	3	3	0	17	16	11
		Max-d	0.24	0.18	0.17	0.05	0.11	-	0.22	0.02	0.03	-	0.32	0.22	0.32
		Min-d	0.08	0.11	0.04	0.03	0.07	-	0.04	0.02	0.03	-	0.13	N.D.	N.D.
	Imsil	Mean	0.18	0.02	0.06	0.04	0.13	-	-	0.08	0.10	-	0.55	0.24	0.18
		%	3	3	10	13	6	0	0	16	13	0	17	16	8
		Max-d	0.18	0.02	0.10	0.08	0.16	-	-	0.13	0.14	-	0.93	0.43	0.93
		Min-d	0.18	0.02	0.03	0.02	0.09	-	-	N.D.	0.06	-	0.39	0.16	N.D.
Russia	Mondy	Mean	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
		%	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-m	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
		Min-m	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Listvianka	Mean	0.05	0.21	0.40	0.29	0.24	0.03	N.D.	N.D.	N.D.	N.D.	N.D.	0.06	0.11
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.10	0.75	0.85	0.52	0.76	0.08	N.D.	N.D.	N.D.	N.D.	N.D.	0.12	0.85
		Min-w	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Irkutsk	Mean	1.25	0.52	0.35	0.18	0.06	0.07	0.37	0.35	0.26	0.14	0.05	0.24	0.32
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	2.90	0.86	0.57	0.26	0.12	0.13	0.45	0.55	0.38	0.40	0.10	0.87	2.90
		Min-w	N.D.	0.05	0.06	0.05	N.D.	N.D.	0.28	0.08	0.13	N.D.	N.D.	N.D.	N.D.
Primorskaya	Mean	0.08	0.20	0.19	0.11	0.16	0.11	0.12	0.13	0.16	0.20	0.24	0.39	0.17	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-2w	0.11	0.25	0.21	0.16	0.21	0.21	0.14	0.16	0.18	0.28	0.37	0.50	0.50	
	Min-2w	0.06	0.14	0.16	0.07	0.10	0.01	0.11	0.10	0.15	0.12	0.10	0.29	0.01	
Thailand	Bangkok	Mean	0.16	0.03	0.14	0.17	0.47	N.D.	0.28	0.28	0.30	0.05	0.15	0.06	0.18
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	0.20	0.06	0.30	0.32	0.64	0.02	0.45	0.36	0.45	0.11	0.20	0.14	0.64
		Min-10d	0.12	N.D.	N.D.	0.09	0.38	N.D.	0.04	0.23	0.01	0.02	0.07	0.02	N.D.
	Patumthani	Mean	0.28	0.15	0.11	0.11	0.01	0.03	0.06	0.02	0.03	N.D.	N.D.	N.D.	0.07
		%	100	62	67	68	30	100	100	100	100	100	100	39	81
		Max-10d	0.60	0.16	0.16	0.13	0.01	0.03	0.16	0.03	0.07	0.02	0.02	N.D.	0.60
		Min-10d	0.04	0.15	0.05	0.08	0.01	0.02	N.D.	0.01	N.D.	N.D.	N.D.	N.D.	N.D.
	Khanchanaburi (Vachiralongkom Dam)	Mean	-	-	0.02	-	-	-	-	0.16	-	-	0.02	-	0.06
		%	0	0	42	0	0	0	0	62	0	0	76	0	12
		Max-2w	-	-	0.02	-	-	-	-	0.16	-	-	0.02	-	0.16
		Min-2w	-	-	0.02	-	-	-	-	0.16	-	-	0.02	-	0.02
Chiangmai (Mae Hia)	Mean	0.02	0.01	0.02	0.02	0.03	0.12	0.04	0.07	0.05	0.02	0.05	0.17	0.05	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-10d	0.03	0.04	0.04	0.06	0.07	0.28	0.07	0.11	0.09	0.06	0.11	0.34	0.34	
	Min-10d	N.D.	N.D.	0.01	N.D.	N.D.	0.03	N.D.	0.04	0.03	N.D.	N.D.	0.06	N.D.	
Nakhon Ratchasima	Mean	0.03	0.03	0.06	0.05	0.07	0.19	0.08	0.09	0.07	N.D.	0.02	0.03	0.06	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-10d	0.03	0.04	0.08	0.07	0.10	0.30	0.10	0.22	0.20	0.01	0.05	0.04	0.30	
	Min-10d	0.03	0.03	0.05	0.02	0.03	N.D.	0.05	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Viet Nam	Ha Noi	Mean	0.88	0.53	0.61	0.77	0.98	1.38	0.97	1.48	0.55	0.50	0.38	0.43	0.79
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	1.59	0.82	1.11	2.05	1.85	1.80	1.22	2.14	0.80	1.11	0.47	0.52	2.14
		Min-w	0.36	0.19	0.30	0.13	0.25	0.92	0.80	0.37	0.33	0.18	0.25	0.32	0.13
	Hoa Binh	Mean	1.23	2.50	0.25	0.12	0.27	0.66	0.93	0.63	0.12	0.19	0.15	0.56	0.64
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	3.35	4.91	0.46	0.26	0.49	1.06	1.69	1.06	0.15	0.31	0.20	1.41	4.91
		Min-w	0.07	0.30	0.06	0.06	0.06	0.28	0.29	0.11	0.09	0.12	0.09	0.13	0.06

Mean : monthly or annual arithmetic average values
 Max-d : maximum values of daily data
 Min-d : minimum values of daily data
 Max-10d : maximum values of 10-day interval data
 Min-10d : minimum values of 10-day interval data
 Max-w : maximum values of weekly data
 Min-w : minimum values of weekly data
 Max-2w : maximum values of biweekly data
 Min-2w : minimum values of biweekly data
 Max-m : maximum values of monthly data
 Min-m : minimum values of monthly data
 % : monthly or annual percentages of period of available data

Table 4.16 Particulate matter component: NH₄⁺

Unit : $\mu\text{g}/\text{m}^3$			2008												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
China	Hongwen	Mean	10.98	5.69	12.33	3.95	5.84	1.04	1.22	3.59	5.57	2.83	3.27	8.33	5.55	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	19.20	10.83	15.96	6.07	6.60	2.68	2.70	8.16	5.89	6.58	5.21	10.82	19.20	
		Min-w	2.60	0.15	7.53	1.01	4.90	0.14	N.D.	1.24	5.25	0.03	1.32	5.24	N.D.	
Indonesia	Serpong	Mean	0.02	0.02	0.38	0.25	N.D.	0.09	0.08	N.D.	0.09	0.07	0.04	0.01	0.08	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.04	0.05	0.57	0.49	N.D.	0.09	0.14	N.D.	0.09	0.13	0.05	0.03	0.57	
		Min-2w	N.D.	N.D.	0.18	0.02	N.D.	0.09	0.01	N.D.	0.09	N.D.	0.04	N.D.	N.D.	
Japan	Rishiri	Mean	0.21	0.30	0.73	1.00	0.72	0.76	0.50	0.31	0.36	0.44	0.53	0.38	0.53	
		%	100	100	100	100	100	100	50	100	100	100	100	100	96	
		Max-2w	0.22	0.30	0.97	1.21	0.82	1.36	0.50	0.32	0.46	0.68	0.57	0.55	1.36	
		Min-2w	0.20	0.29	0.43	0.79	0.62	0.22	0.50	0.31	0.26	0.20	0.50	0.13	0.13	
	Ochiishi	Mean				0.59	0.43	0.64	0.44	0.36	0.24	0.19	0.40	0.28	0.40	
		%				100	100	100	100	100	100	100	100	100	100	
		Max-2w				0.63	0.58	0.92	0.56	0.49	0.29	0.29	0.49	0.29	0.92	
		Min-2w				0.55	0.28	0.36	0.31	0.23	0.20	0.10	0.32	0.28	0.10	
	Tappi	Mean	0.31	0.64	1.30	1.00	1.09	1.20	1.06	0.51	0.49	1.02	0.49	0.20	0.77	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.35	0.80	1.40	1.35	1.14	1.81	1.17	0.68	0.84	1.79	0.55	0.29	1.81	
		Min-2w	0.28	0.48	1.19	0.65	1.04	0.75	0.94	0.34	0.13	0.24	0.42	0.05	0.05	
	Sado-seki	Mean	0.38	0.48	1.46	0.88	1.10	0.92	1.27	0.27	0.61	0.39	0.28	0.27	0.68	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.42	0.60	1.59	0.91	1.71	1.30	1.38	0.29	0.94	0.51	0.42	0.31	1.71	
		Min-2w	0.34	0.35	1.34	0.84	0.49	0.65	1.16	0.25	0.28	0.27	0.13	0.24	0.13	
	Happo	Mean	0.25	0.36	1.13	0.93	0.60	0.71	0.80	0.83	0.96	0.83	0.37	0.19	0.66	
		%	100	100	100	100	100	100	100	100	100	100	100	68	96	
		Max-2w	0.45	0.47	1.60	0.94	0.66	1.24	1.47	1.33	1.45	0.84	0.47	0.26	1.60	
		Min-2w	0.05	0.25	0.65	0.91	0.54	0.11	0.14	0.32	0.47	0.81	0.28	0.13	0.05	
	Ijira	Mean	0.78	0.81	1.88	1.31	1.99	1.91	2.73	0.96	1.37	1.32	0.81	0.60	1.36	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.99	0.94	2.49	1.60	2.24	2.01	2.90	1.24	2.00	1.54	1.08	0.68	2.90	
		Min-2w	0.56	0.68	1.28	1.03	1.75	1.75	2.55	0.68	0.75	1.09	0.54	0.46	0.46	
	Okii	Mean	0.49	0.88	0.68	1.51	0.38	1.08	2.45	0.82	0.96	0.94	0.90	0.68	0.97	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.69	1.32	1.30	1.60	0.49	1.33	2.71	1.30	1.09	1.33	1.16	0.83	2.71	
		Min-2w	0.29	0.44	0.06	1.42	0.26	0.70	2.20	0.34	0.83	0.56	0.64	0.54	0.06	
	Banryu	Mean	1.32	1.50	2.40	1.85	1.80	0.91	1.22	0.52	0.75	1.52	1.41	1.16	1.32	
		%	100	100	100	85	100	100	100	100	100	100	100	100	96	
		Max-2w	1.68	1.78	3.22	1.85	2.68	1.20	1.80	0.53	0.86	1.72	2.00	1.29	3.22	
		Min-2w	0.95	1.23	1.57	1.85	0.91	0.51	0.64	0.51	0.65	1.31	0.83	0.90	0.51	
	Yusuhara	Mean	0.35	1.76	1.99	1.53	1.70	1.37	1.20	1.21	1.23	1.00	0.24	0.17	1.12	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.67	2.11	2.15	1.62	2.13	1.67	1.25	1.34	1.30	1.11	0.35	0.20	2.15	
		Min-2w	0.03	1.40	1.83	1.43	1.27	1.16	1.15	1.09	1.16	0.89	0.13	0.12	0.03	
Hedo	Mean	1.24	2.41	1.90	1.84	0.54	0.36	0.73	0.84	0.72	0.59	0.72	0.89	0.98		
	%	100	50	100	100	100	100	100	100	100	100	100	100	96		
	Max-2w	1.81	2.41	2.24	1.87	0.80	0.55	1.14	1.22	1.16	0.69	0.84	1.04	2.41		
	Min-2w	0.66	2.41	1.57	1.80	0.27	0.21	0.33	0.47	0.29	0.50	0.59	0.62	0.21		
Ogasawara	Mean	0.32	0.59	0.51	0.42	0.09	0.14	0.13	0.20	0.08	0.04	0.45	0.16	0.24		
	%	100	100	100	100	100	100	100	100	100	100	48	100	96		
	Max-2w	0.37	0.88	0.53	0.58	0.10	0.18	0.17	0.26	0.12	0.07	0.45	0.22	0.88		
	Min-2w	0.26	0.29	0.49	0.25	0.07	0.09	0.09	0.13	0.04	0.01	0.45	0.11	0.01		
Tokyo	Mean	2.36	1.81	2.54	1.99	2.08	2.07	2.19	1.31	1.96	1.90	2.13	1.41	1.96		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	2.98	1.93	2.82	2.13	2.24	2.24	2.26	1.60	2.66	2.38	2.37	1.94	2.98		
	Min-2w	1.74	1.70	2.25	1.84	1.92	1.78	2.13	1.02	1.25	1.42	1.89	0.81	0.81		
Malaysia	Tanah Rata	Mean	0.16	0.46	0.25	0.31	0.64	0.48	0.46	0.66	0.20	0.23	0.14	0.10	0.35	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.28	0.69	0.36	0.36	1.00	0.60	0.70	1.17	0.33	0.34	0.35	0.21	1.17	
		Min-w	0.08	0.21	0.20	0.27	0.38	0.34	0.28	0.12	0.09	0.14	0.03	0.01	0.01	
	Petaling Jaya	Mean	0.67	1.28	0.53	0.99	1.09	1.44	0.91	1.11	0.16	0.51	0.50	0.43	0.82	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.79	2.03	1.12	1.46	1.86	1.86	1.07	1.56	0.26	0.97	0.90	0.76	2.03	
		Min-w	0.52	0.89	0.11	0.71	0.74	1.11	0.79	0.14	0.03	0.04	0.03	0.09	0.03	
	Danum Valley	Mean	0.01	0.21	0.09	0.06	0.26	0.10	0.08	0.12	0.18	0.20	0.05	0.02	0.12	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.02	0.34	0.09	0.13	0.30	0.12	0.14	0.15	0.29	0.24	0.05	0.04	0.34	
		Min-2w	0.01	0.07	0.08	0.01	0.22	0.08	0.03	0.08	0.07	0.17	0.04	N.D.	N.D.	
Mongolia	Ulaanbaatar	Mean	-	-	-	-	0.18	0.46	0.36	0.05	N.D.	0.32	-	-	0.23	
		%	0	0	0	0	59	100	100	100	100	40	0	0	42	
		Max-w	-	-	-	-	0.35	0.52	0.62	0.19	N.D.	0.35	-	-	0.62	
		Min-w	-	-	-	-	0.04	0.39	0.16	N.D.	N.D.	0.29	-	-	N.D.	
	Tereij	Mean	0.56	0.49	0.62	1.23	0.75	0.15	0.16	0.43	0.10	0.10	N.D.	0.18	0.37	
		%	100	100	100	70	100	100	100	45	100	100	100	100	93	
		Max-2w	0.63	0.53	0.71	1.23	0.92	0.25	0.31	0.43	0.20	0.20	N.D.	0.30	1.23	
		Min-2w	0.50	0.45	0.53	1.23	0.67	0.05	N.D.	0.43	N.D.	N.D.	N.D.	N.D.	N.D.	

Table 4.16 Particulate matter component: NH₄⁺

Unit : µg/m ³			2008												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Philippines	Metro Manila	Mean	0.24	2.10	1.10	0.27	0.24	0.03	N.D.	0.04	N.D.	N.D.	-	-	0.42	
		%	100	100	100	100	100	100	100	100	55	100	100	0	0	81
		Max-w	0.80	2.95	3.29	1.08	0.48	0.17	N.D.	0.11	N.D.	N.D.	-	-	-	3.29
		Min-w	N.D.	0.24	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	-	N.D.
	Los Banos	Mean	0.51	0.33	0.32	1.04	0.56	0.01	0.02	0.09	N.D.	N.D.	-	-	-	0.34
		%	100	100	100	100	100	100	100	100	52	0	0	0	0	71
		Max-w	0.89	1.07	1.28	4.15	1.49	0.06	0.10	0.17	N.D.	-	-	-	-	4.15
		Min-w	N.D.	N.D.	N.D.	N.D.	0.11	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	-	N.D.
	Mt. Sto. Tomas	Mean	0.03	0.02	0.11	0.30	1.38	0.17	0.38	0.39	0.47	0.20	0.04	0.04	0.04	0.33
		%	100	100	100	100	100	100	100	100	100	100	100	100	22	94
		Max-w	0.06	0.03	0.34	0.39	5.36	0.25	0.51	0.46	0.57	0.54	0.05	0.04	0.04	5.36
		Min-w	N.D.	N.D.	0.02	0.15	0.06	0.08	N.D.	0.28	0.42	N.D.	0.03	0.04	N.D.	
Republic of Korea	Kanghwa	Mean	0.42	1.45	2.01	1.74	0.86	0.61	0.32	0.27	0.40	0.88	0.59	2.03	1.05	
		%	16	17	16	17	16	13	6	13	10	13	13	16	14	
		Max-d	0.93	2.07	2.67	2.40	1.93	1.13	0.45	0.60	0.67	2.66	0.98	3.30	3.30	
		Min-d	0.05	0.97	1.26	1.15	0.02	0.06	0.19	0.11	0.05	0.17	0.26	0.36	0.02	
	Cheju (Kosan)	Mean	1.44	0.43	0.64	1.73	1.95	-	1.25	2.51	1.71	-	1.27	1.28	1.26	
		%	16	14	16	13	10	0	19	3	3	0	17	16	11	
		Max-d	4.36	1.44	1.19	2.71	2.78	-	4.27	2.51	1.71	-	2.59	2.75	4.36	
		Min-d	0.05	0.05	0.23	0.55	0.82	-	0.18	2.51	1.71	-	0.23	0.54	0.05	
	Imsil	Mean	2.41	1.22	1.82	1.95	1.73	-	-	1.26	1.27	-	1.22	1.00	1.43	
		%	3	3	10	13	6	0	0	16	13	0	17	16	8	
		Max-d	2.41	1.22	2.24	4.14	1.80	-	-	3.38	2.17	-	1.63	4.19	4.19	
		Min-d	2.41	1.22	1.24	0.08	1.66	-	-	N.D.	0.15	-	0.76	N.D.	N.D.	
Russia	Mondy	Mean	N.D.	0.03	0.02	0.02	0.17	0.17	0.13	0.17	0.19	0.05	0.07	0.03	0.09	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-m	N.D.	0.03	0.02	0.02	0.17	0.17	0.13	0.17	0.19	0.05	0.07	0.03	0.19	
		Min-m	N.D.	0.03	0.02	0.02	0.17	0.17	0.13	0.17	0.19	0.05	0.07	0.03	N.D.	
	Listvianka	Mean	0.32	0.26	0.34	0.30	0.46	0.33	0.06	0.03	0.06	0.15	0.08	0.08	0.21	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.44	0.41	0.67	0.39	0.96	0.59	0.12	0.05	0.09	0.37	0.09	0.13	0.96	
		Min-w	0.20	0.15	0.11	0.23	0.09	0.15	0.03	0.01	0.02	0.06	0.07	0.01	0.01	
	Irkutsk	Mean	2.01	0.93	0.64	1.08	0.31	0.22	0.44	0.33	0.30	0.37	1.09	1.94	0.80	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	4.59	3.53	0.87	1.48	0.86	0.36	0.44	0.48	0.48	0.79	2.57	5.46	5.46	
		Min-w	0.02	0.02	0.28	0.59	0.10	0.11	0.43	0.16	0.18	0.20	0.02	0.18	0.02	
Primorskaya	Mean	1.46	1.19	1.32	1.77	0.67	0.55	0.40	0.72	0.30	1.62	0.70	0.61	0.94		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	1.53	1.26	1.61	1.88	0.78	0.73	0.71	1.26	0.36	2.24	0.72	0.84	2.24		
	Min-2w	1.38	1.12	1.04	1.66	0.56	0.38	0.10	0.17	0.24	1.00	0.67	0.38	0.10		
Thailand	Bangkok	Mean	1.21	0.12	0.65	0.70	7.13	N.D.	0.10	0.30	0.23	0.86	1.05	1.43	1.15	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-10d	1.76	0.30	1.08	0.82	10.99	N.D.	0.16	0.36	0.58	1.21	1.77	4.02	10.99	
		Min-10d	0.66	N.D.	0.05	0.50	0.46	N.D.	N.D.	0.23	N.D.	0.67	0.34	0.08	N.D.	
	Patumthani	Mean	1.48	1.43	0.41	0.35	11.44	N.D.	N.D.	0.05	N.D.	0.05	N.D.	0.14	0.71	
		%	100	62	67	68	30	100	100	100	100	100	100	39	81	
		Max-10d	3.01	1.57	0.66	0.48	11.44	N.D.	N.D.	0.12	N.D.	0.10	N.D.	0.14	11.44	
		Min-10d	0.15	1.29	0.16	0.22	11.44	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.14	N.D.	
	Khanchanaburi (Vachiralongkom Dam)	Mean	-	-	1.91	-	-	-	-	0.13	-	-	1.27	-	1.10	
		%	0	0	42	0	0	0	0	62	0	0	76	0	12	
		Max-2w	-	-	1.91	-	-	-	-	0.13	-	-	1.27	-	1.91	
		Min-2w	-	-	1.91	-	-	-	-	0.13	-	-	1.27	-	0.13	
Chiangmai (Mae Hia)	Mean	0.68	1.09	1.33	0.63	0.20	0.06	0.08	N.D.	0.04	0.43	0.89	0.46	0.49		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-10d	1.02	1.37	2.60	1.52	0.55	0.11	0.11	N.D.	0.07	1.23	1.88	1.29	2.60		
	Min-10d	0.42	0.76	N.D.	0.18	0.01	N.D.	0.04	N.D.	N.D.	N.D.	0.22	0.03	N.D.		
Nakhon Ratchasima	Mean	1.58	1.59	1.92	1.22	0.76	0.29	0.59	0.56	0.38	1.18	1.43	2.00	1.13		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-10d	2.64	2.15	2.58	1.52	0.78	0.38	0.73	0.75	0.65	2.47	2.17	3.41	3.41		
	Min-10d	0.96	1.13	1.24	1.05	0.73	0.23	0.49	0.39	0.22	0.20	0.06	0.36	0.06		
Viet Nam	Ha Noi	Mean	3.48	9.13	3.50	1.17	2.99	1.04	1.02	0.35	1.38	1.55	0.33	0.34	2.20	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	5.07	21.40	8.26	1.29	5.42	1.92	2.50	0.51	4.35	3.64	0.40	0.39	21.40	
		Min-w	1.29	3.23	0.73	1.01	0.60	0.28	0.48	0.22	0.29	0.27	0.29	0.31	0.22	
	Hoa Binh	Mean	4.22	1.08	0.40	0.70	1.00	0.03	0.06	0.25	0.32	0.45	0.38	0.52	0.84	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	8.19	2.11	0.93	1.75	2.74	0.07	0.18	0.30	0.39	0.46	0.48	0.60	8.19	
		Min-w	0.16	0.03	0.03	0.03	0.05	N.D.	N.D.	0.13	0.26	0.43	0.32	0.45	N.D.	

Mean : monthly or annual arithmetic average values
 Max-d : maximum values of daily data
 Min-d : minimum values of daily data
 Max-10d : maximum values of 10-day interval data
 Min-10d : minimum values of 10-day interval data
 Max-w : maximum values of weekly data
 Min-w : minimum values of weekly data
 Max-2w : maximum values of biweekly data
 Min-2w : minimum values of biweekly data
 Max-m : maximum values of monthly data
 Min-m : minimum values of monthly data
 % : monthly or annual percentages of period of available data

Table 4.17 Particulate matter component: Na⁺

Unit : $\mu\text{g}/\text{m}^3$		2008												Annual	
Country	Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
China	Hongwen	Mean	1.14	1.13	1.97	1.71	1.44	1.52	0.91	1.60	1.82	0.99	0.49	1.77	1.40
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	1.63	1.73	2.40	1.74	1.96	2.07	1.34	2.51	2.83	2.28	0.86	2.10	2.83
		Min-w	0.32	0.24	1.43	1.66	1.07	0.72	N.D.	0.77	0.81	0.03	0.12	1.56	N.D.
Indonesia	Serpong	Mean	0.09	0.07	0.42	0.06	N.D.	0.09	0.03	N.D.	0.01	0.02	N.D.	0.02	0.06
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.16	0.10	0.67	0.09	0.02	0.09	0.04	N.D.	0.02	0.03	N.D.	0.02	0.67
		Min-2w	0.03	0.05	0.17	0.02	N.D.	0.09	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Japan	Rishiri	Mean	1.33	1.08	1.42	1.18	1.64	0.85	1.64	1.14	3.15	3.64	2.82	2.30	1.82
		%	100	100	100	100	100	100	50	100	100	100	100	100	96
		Max-2w	1.98	1.66	2.39	1.38	2.30	1.10	1.64	1.72	4.86	3.96	3.45	3.09	4.86
		Min-2w	0.68	0.51	0.72	0.98	0.97	0.66	1.64	0.55	1.44	3.33	2.19	1.21	0.51
	Ochiishi	Mean				3.13	4.53	1.38	0.59	1.33	2.40	3.61	5.92	4.88	3.09
		%				100	100	100	100	100	100	100	100	100	100
		Max-2w				3.81	6.44	2.10	0.70	1.81	3.81	3.83	8.72	6.46	8.72
		Min-2w				2.46	2.62	0.67	0.48	0.84	0.99	3.40	3.12	3.31	0.48
	Tappi	Mean	1.61	9.46	2.71	3.51	3.48	0.96	0.76	0.92	3.25	3.70	17.37	13.87	5.31
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	2.81	13.52	3.54	3.58	3.65	1.07	1.05	1.01	5.80	4.17	22.02	37.84	37.84
		Min-2w	0.41	5.40	1.88	3.45	3.31	0.75	0.47	0.83	0.71	3.23	12.72	0.44	0.41
	Sado-seki	Mean	4.90	5.40	2.78	2.97	1.93	1.18	1.05	1.46	2.32	1.83	4.86	7.89	3.32
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	5.18	6.32	2.93	3.79	2.36	1.46	1.30	2.48	3.64	2.69	6.94	14.97	14.97
		Min-2w	4.62	4.47	2.62	2.15	1.49	0.92	0.79	0.45	0.99	0.97	2.77	2.66	0.45
	Happo	Mean	0.06	0.11	0.13	0.11	0.09	0.05	0.05	0.05	0.13	0.18	0.18	0.07	0.10
		%	100	100	100	100	100	100	100	100	100	100	100	68	96
		Max-2w	0.11	0.16	0.18	0.12	0.13	0.08	0.07	0.05	0.15	0.20	0.24	0.09	0.24
		Min-2w	0.01	0.07	0.09	0.11	0.05	N.D.	0.03	0.05	0.11	0.15	0.12	0.05	N.D.
	Ijira	Mean	0.18	0.21	0.39	0.32	0.25	0.19	0.23	0.26	0.24	0.28	0.26	0.19	0.25
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.24	0.29	0.45	0.40	0.26	0.21	0.24	0.34	0.24	0.31	0.38	0.23	0.45
		Min-2w	0.12	0.13	0.33	0.24	0.25	0.18	0.23	0.17	0.23	0.24	0.13	0.14	0.12
	Okii	Mean	2.01	3.56	1.50	2.49	0.32	1.29	1.41	2.52	1.62	1.03	4.25	4.49	2.26
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	2.21	3.93	2.95	2.51	0.57	1.41	1.50	3.41	2.33	1.45	4.42	6.25	6.25
		Min-2w	1.82	3.18	0.06	2.47	0.08	1.21	1.32	1.62	0.90	0.62	4.07	3.56	0.06
	Banryu	Mean	1.56	2.59	1.86	1.92	0.86	0.67	0.50	1.54	1.12	0.86	1.29	1.58	1.32
		%	100	100	100	85	100	100	100	100	100	100	100	100	96
		Max-2w	1.73	2.62	2.53	1.92	0.97	1.04	0.81	2.77	1.67	0.92	1.45	2.36	2.77
		Min-2w	1.38	2.57	1.19	1.92	0.76	0.32	0.18	0.30	0.56	0.80	1.14	1.02	0.18
	Yusuhara	Mean	0.10	0.53	0.51	0.38	0.33	0.12	0.33	0.26	0.27	0.42	0.04	0.03	0.26
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.17	0.65	0.55	0.39	0.41	0.19	0.38	0.34	0.28	0.49	0.04	0.05	0.65
		Min-2w	0.03	0.41	0.48	0.37	0.26	0.04	0.29	0.19	0.26	0.35	0.04	N.D.	N.D.
	Hedo	Mean	4.70	5.48	4.79	4.41	3.65	1.96	1.46	2.74	2.53	4.81	4.34	5.30	3.77
		%	100	50	100	100	100	100	100	100	100	100	100	100	96
		Max-2w	4.79	5.48	5.27	4.64	3.89	2.27	1.86	4.12	2.61	5.39	5.93	6.17	6.17
		Min-2w	4.62	5.48	4.32	4.18	3.41	1.64	1.05	1.36	2.45	4.23	2.75	4.23	1.05
	Ogasawara	Mean	2.75	3.85	3.25	2.68	2.30	1.43	1.29	1.73	1.16	2.54	1.71	3.49	2.38
		%	100	100	100	100	100	100	100	100	100	100	48	100	96
		Max-2w	3.23	3.86	3.33	3.14	3.25	1.87	1.63	1.80	1.31	3.25	1.71	3.75	3.86
		Min-2w	2.27	3.83	3.16	2.23	1.35	1.13	0.95	1.67	1.02	1.83	1.71	3.29	0.95
	Tokyo	Mean	0.32	0.38	1.02	0.85	1.02	0.93	0.90	0.93	0.91	1.19	0.72	0.48	0.80
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.43	0.53	1.07	0.93	1.05	1.04	0.90	1.01	0.93	1.48	0.72	0.67	1.48
		Min-2w	0.22	0.23	0.97	0.77	0.99	0.84	0.90	0.84	0.89	0.90	0.71	0.22	0.22
Malaysia	Tanah Rata	Mean	0.11	0.43	0.11	0.05	0.12	0.10	0.09	0.18	0.11	0.05	0.03	0.12	0.13
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.28	0.65	0.19	0.06	0.20	0.15	0.12	0.36	0.20	0.11	0.04	0.16	0.65
		Min-w	0.03	0.22	0.04	0.03	0.03	0.01	0.08	N.D.	0.04	0.02	0.01	0.03	N.D.
	Petaling Jaya	Mean	0.31	0.88	0.18	0.17	0.44	0.40	0.41	0.55	0.05	0.13	0.13	0.21	0.34
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.49	1.46	0.49	0.27	0.72	0.67	0.47	1.38	0.07	0.43	0.25	0.38	1.46
		Min-w	0.14	0.24	0.02	0.08	0.11	0.12	0.29	0.04	0.01	N.D.	0.01	0.10	N.D.
	Danum Valley	Mean	0.29	0.61	0.15	0.16	0.12	0.07	0.09	0.16	0.10	0.01	0.08	0.16	0.16
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.57	1.04	0.17	0.27	0.13	0.09	0.09	0.18	0.15	0.02	0.11	0.24	1.04
		Min-2w	N.D.	0.18	0.12	N.D.	0.11	0.06	0.09	0.13	0.08	0.01	0.05	0.07	N.D.
Mongolia	Ulaanbaatar	Mean	-	-	-	-	0.04	0.15	0.07	0.12	0.05	0.10	-	-	0.09
		%	0	0	0	0	59	100	100	100	100	40	0	0	42
		Max-w	-	-	-	-	0.08	0.25	0.24	0.21	0.11	0.13	-	-	0.25
		Min-w	-	-	-	-	N.D.	0.10	0.02	0.02	N.D.	0.06	-	-	N.D.
	Terej	Mean	0.14	0.02	0.08	0.09	0.08	0.02	N.D.	N.D.	0.05	0.02	0.02	0.24	0.08
		%	100	100	100	70	100	100	100	45	100	100	100	100	93
		Max-2w	0.22	0.02	0.14	0.09	0.12	0.04	N.D.	N.D.	0.06	0.03	0.02	0.64	0.64
		Min-2w	0.06	0.02	0.02	0.09	0.02	N.D.	N.D.	N.D.	0.03	N.D.	0.01	0.03	N.D.

Table 4.17 Particulate matter component: Na⁺

Unit : µg/m ³		2008												Annual	
Country	Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Philippines	Metro Manila	Mean	0.62	1.12	0.44	0.30	0.15	3.13	0.37	0.77	0.71	1.68	-	-	0.97
		%	100	100	100	100	100	100	100	55	100	100	0	0	81
		Max-w	0.82	1.93	0.67	0.65	0.31	12.63	0.62	1.83	1.33	4.11	-	-	12.63
		Min-w	0.25	0.37	0.10	0.09	N.D.	N.D.	0.18	0.12	0.26	0.60	-	-	N.D.
	Los Banos	Mean	1.11	1.37	0.77	0.82	0.48	0.44	0.21	0.18	0.98	-	-	-	0.67
		%	100	100	100	100	100	100	100	100	52	0	0	0	71
		Max-w	1.60	1.58	2.47	1.45	1.73	1.07	0.47	0.36	1.48	-	-	-	2.47
		Min-w	0.43	1.12	N.D.	0.29	0.03	0.02	N.D.	0.06	0.47	-	-	-	N.D.
	Mt. Sto. Tomas	Mean	0.50	0.30	0.22	0.27	1.23	0.35	0.37	0.25	0.44	0.08	0.09	0.06	0.38
		%	100	100	100	100	100	100	100	100	100	100	100	22	94
		Max-w	0.80	0.46	0.26	0.32	5.11	0.54	1.11	0.45	0.87	0.20	0.22	0.06	5.11
		Min-w	0.41	0.21	0.18	0.20	0.20	0.21	N.D.	0.12	0.23	N.D.	0.04	0.06	N.D.
Republic of Korea	Kanghwa	Mean	0.38	0.47	0.47	0.52	0.29	0.44	0.36	0.38	0.24	0.33	0.49	0.63	0.43
		%	16	17	16	17	16	13	6	13	10	13	13	16	14
		Max-d	0.56	0.57	0.59	0.82	0.35	0.52	0.36	0.47	0.30	0.45	0.63	0.77	0.82
		Min-d	0.15	0.38	0.33	0.36	0.19	0.31	0.35	0.22	0.21	0.18	0.37	0.54	0.15
	Cheju (Kosan)	Mean	0.49	0.41	0.72	0.38	0.66	-	0.55	0.66	0.39	-	0.50	0.50	0.53
		%	16	14	16	13	10	0	19	3	3	0	17	16	11
		Max-d	0.93	0.67	0.97	0.44	0.72	-	1.08	0.66	0.39	-	1.02	0.88	1.08
		Min-d	0.16	0.28	0.52	0.36	0.58	-	0.29	0.66	0.39	-	0.02	0.24	0.02
	Imsil	Mean	0.75	0.57	0.74	0.73	0.74	-	-	0.36	0.34	-	0.67	0.59	0.58
		%	3	3	10	13	6	0	0	16	13	0	17	16	8
		Max-d	0.75	0.57	0.89	0.96	0.76	-	-	0.49	0.45	-	0.75	0.89	0.96
		Min-d	0.75	0.57	0.65	0.51	0.72	-	-	N.D.	0.19	-	0.63	0.31	N.D.
Russia	Mondy	Mean	N.D.	0.08	0.02	0.02	N.D.	N.D.	0.02	0.05	0.01	N.D.	0.02	0.01	0.02
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-m	N.D.	0.08	0.02	0.02	N.D.	N.D.	0.02	0.05	0.01	N.D.	0.02	0.01	0.08
		Min-m	N.D.	0.08	0.02	0.02	N.D.	N.D.	0.02	0.05	0.01	N.D.	0.02	0.01	N.D.
	Listvianka	Mean	0.14	0.21	0.10	0.08	0.10	0.07	0.08	0.06	0.07	0.28	0.07	0.11	0.12
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.18	0.27	0.17	0.10	0.16	0.17	0.13	0.11	0.09	0.81	0.09	0.19	0.81
		Min-w	0.06	0.12	0.07	0.06	0.06	0.02	0.03	0.03	0.03	0.07	0.06	0.02	0.02
	Irkutsk	Mean	0.20	0.29	0.33	0.27	0.16	0.10	0.09	0.11	0.07	0.17	0.30	0.61	0.23
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.35	0.51	0.52	0.37	0.28	0.15	0.11	0.23	0.15	0.47	0.45	1.02	1.02
		Min-w	N.D.	0.14	0.12	0.15	0.04	0.06	0.07	0.03	0.02	0.05	0.12	0.22	N.D.
Primorskaya	Mean	0.11	0.31	0.39	0.51	0.50	0.19	0.08	0.12	0.06	0.18	0.20	0.50	0.26	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-2w	0.13	0.40	0.48	0.51	0.61	0.24	0.11	0.14	0.07	0.19	0.25	0.63	0.63	
	Min-2w	0.09	0.22	0.29	0.51	0.39	0.14	0.05	0.11	0.05	0.18	0.14	0.37	0.05	
Thailand	Bangkok	Mean	0.53	0.06	0.49	0.39	0.43	N.D.	0.39	0.48	0.48	0.17	0.38	0.17	0.33
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	0.64	0.18	0.91	0.50	0.79	N.D.	0.73	0.70	0.95	0.24	0.43	0.46	0.95
		Min-10d	0.42	N.D.	0.02	0.19	N.D.	N.D.	0.11	0.32	0.19	0.08	0.34	0.02	N.D.
	Patumthani	Mean	0.48	0.42	2.05	0.22	N.D.	0.04	0.05	0.02	N.D.	0.10	0.17	0.05	0.27
		%	100	62	67	68	30	100	100	100	100	100	100	39	81
		Max-10d	0.94	0.49	2.94	0.22	N.D.	0.07	0.12	0.03	0.02	0.29	0.50	0.05	2.94
		Min-10d	0.04	0.35	1.17	0.22	N.D.	N.D.	0.01	N.D.	N.D.	N.D.	N.D.	0.05	N.D.
	Khanchanaburi (Vachiralongkom Dam)	Mean	-	-	0.18	-	-	-	-	0.15	-	-	0.18	-	0.17
		%	0	0	42	0	0	0	0	62	0	0	76	0	12
		Max-2w	-	-	0.18	-	-	-	-	0.15	-	-	0.18	-	0.18
		Min-2w	-	-	0.18	-	-	-	-	0.15	-	-	0.18	-	0.15
Chiangmai (Mae Hia)	Mean	0.10	0.09	0.09	0.11	0.23	0.15	0.11	0.10	N.D.	N.D.	0.07	0.73	0.15	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-10d	0.14	0.11	0.19	0.25	0.36	0.25	0.27	0.19	0.02	N.D.	0.10	1.67	1.67	
	Min-10d	0.05	0.07	N.D.	0.04	N.D.	N.D.	N.D.	0.02	N.D.	N.D.	0.03	0.25	N.D.	
Nakhon Ratchasima	Mean	0.32	0.21	0.52	0.18	0.28	0.21	0.26	0.25	0.11	0.07	0.23	0.28	0.24	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-10d	0.50	0.25	0.60	0.23	0.31	0.38	0.36	0.39	0.22	0.11	0.41	0.38	0.60	
	Min-10d	0.13	0.14	0.37	0.11	0.26	N.D.	0.18	0.15	0.03	0.04	N.D.	0.13	N.D.	
Viet Nam	Ha Noi	Mean	0.26	0.23	0.46	0.68	1.02	1.15	0.97	0.33	0.46	0.52	0.28	0.18	0.56
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.48	0.49	0.62	1.41	2.27	1.40	1.50	0.54	0.67	1.44	0.39	0.29	2.27
		Min-w	0.02	0.03	0.19	0.25	0.14	0.90	0.51	0.12	0.26	0.26	0.15	0.12	0.02
	Hoa Binh	Mean	0.33	0.26	0.16	0.09	0.12	0.56	0.49	0.29	0.10	0.19	0.13	0.17	0.24
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.92	0.42	0.27	0.17	0.18	1.10	0.89	0.56	0.18	0.39	0.16	0.27	1.10
		Min-w	0.02	0.18	0.02	0.02	0.07	0.12	0.04	0.07	0.04	0.06	0.08	0.07	0.02

Mean : monthly or annual arithmetic average values
 Max-d : maximum values of daily data
 Min-d : minimum values of daily data
 Max-10d : maximum values of 10-day interval data
 Min-10d : minimum values of 10-day interval data
 Max-w : maximum values of weekly data
 Min-w : minimum values of weekly data
 Max-2w : maximum values of biweekly data
 Min-2w : minimum values of biweekly data
 Max-m : maximum values of monthly data
 Min-m : minimum values of monthly data
 % : monthly or annual percentages of period of available data

Table 4.18 Particulate matter component: K⁺

Unit : $\mu\text{g}/\text{m}^3$			2008												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
China	Hongwen	Mean	1.67	1.10	1.29	0.26	0.37	0.06	0.08	0.23	0.39	0.22	0.21	1.33	0.62
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	3.45	1.57	1.66	0.75	0.43	0.10	0.25	0.27	0.45	0.50	0.38	1.44	3.45
		Min-w	0.17	0.33	1.02	N.D.	0.30	0.05	N.D.	0.10	0.34	N.D.	0.05	1.18	N.D.
Indonesia	Serpong	Mean	0.05	0.03	0.50	0.12	N.D.	0.05	0.08	N.D.	0.01	0.02	N.D.	N.D.	0.07
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.09	0.05	0.84	0.24	N.D.	0.05	0.13	N.D.	0.03	0.02	0.01	N.D.	0.84
		Min-2w	0.01	0.01	0.17	N.D.	N.D.	0.05	0.03	N.D.	N.D.	0.01	N.D.	N.D.	N.D.
Japan	Rishiri	Mean	0.08	0.09	0.15	0.17	0.16	0.14	0.11	0.13	0.19	0.28	0.25	0.16	0.16
		%	100	100	100	100	100	100	50	100	100	100	100	100	96
		Max-2w	0.13	0.11	0.24	0.22	0.18	0.21	0.11	0.15	0.24	0.33	0.29	0.21	0.33
		Min-2w	0.04	0.07	0.08	0.12	0.14	0.07	0.11	0.10	0.13	0.24	0.22	0.07	0.04
	Ochiishi	Mean				0.16	0.27	0.08	0.04	0.11	0.17	0.17	0.27	0.19	0.16
		%				100	100	100	100	100	100	100	100	100	100
		Max-2w				0.20	0.32	0.12	0.05	0.17	0.18	0.19	0.38	0.25	0.38
		Min-2w				0.11	0.23	0.03	0.04	0.05	0.17	0.14	0.15	0.13	0.03
	Tappi	Mean	0.16	0.44	0.24	0.25	0.24	0.11	0.09	0.01	0.16	0.29	0.55	0.50	0.26
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.18	0.52	0.27	0.31	0.24	0.11	0.11	0.03	0.21	0.39	0.70	1.13	1.13
		Min-2w	0.13	0.37	0.20	0.20	0.24	0.11	0.08	N.D.	0.11	0.19	0.41	0.16	N.D.
	Sado-seki	Mean	0.21	0.24	0.31	0.23	0.17	0.11	0.12	0.07	0.17	0.15	0.23	0.26	0.19
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.24	0.27	0.34	0.26	0.19	0.12	0.13	0.11	0.18	0.18	0.36	0.51	0.51
		Min-2w	0.18	0.20	0.29	0.20	0.15	0.10	0.10	0.03	0.16	0.12	0.10	0.08	0.03
	Happo	Mean	0.04	0.05	0.12	0.10	0.06	0.04	0.02	0.04	0.04	0.06	0.04	0.02	0.05
		%	100	100	100	100	100	100	100	100	100	100	100	68	96
		Max-2w	0.08	0.06	0.18	0.10	0.07	0.06	0.05	0.05	0.06	0.06	0.05	0.02	0.18
		Min-2w	N.D.	0.03	0.07	0.09	0.06	0.01	N.D.	0.02	0.03	0.06	0.04	0.02	N.D.
	Ijira	Mean	0.10	0.08	0.19	0.13	0.15	0.18	0.19	0.15	0.13	0.14	0.13	0.08	0.14
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.14	0.10	0.26	0.15	0.16	0.21	0.20	0.15	0.16	0.14	0.18	0.12	0.26
		Min-2w	0.05	0.06	0.13	0.11	0.14	0.14	0.18	0.15	0.11	0.13	0.07	0.05	0.05
	Oki	Mean	0.13	0.25	0.12	0.27	0.03	0.15	0.16	0.15	0.13	0.12	0.29	0.26	0.18
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.18	0.28	0.24	0.27	0.05	0.20	0.16	0.15	0.16	0.17	0.35	0.33	0.35
		Min-2w	0.08	0.21	N.D.	0.27	0.01	0.12	0.16	0.15	0.10	0.07	0.24	0.19	N.D.
	Banryu	Mean	0.22	0.31	0.30	0.25	0.16	0.11	0.07	0.12	0.12	0.18	0.26	0.20	0.19
		%	100	100	100	85	100	100	100	100	100	100	100	100	96
		Max-2w	0.30	0.35	0.34	0.25	0.20	0.17	0.12	0.18	0.17	0.19	0.36	0.21	0.36
		Min-2w	0.15	0.27	0.25	0.25	0.11	0.06	0.03	0.05	0.07	0.16	0.15	0.19	0.03
	Yusuhara	Mean	0.03	0.20	0.20	0.16	0.18	0.15	0.08	0.03	0.12	0.10	0.03	0.05	0.11
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.05	0.22	0.21	0.18	0.23	0.27	0.09	0.03	0.13	0.12	0.05	0.08	0.27
		Min-2w	N.D.	0.18	0.19	0.14	0.14	0.07	0.07	0.03	0.11	0.08	0.01	0.03	N.D.
	Hedo	Mean	0.39	0.47	0.39	0.35	0.24	0.19	0.09	0.16	0.23	0.28	0.28	0.28	0.27
		%	100	50	100	100	100	100	100	100	100	100	100	100	96
		Max-2w	0.51	0.47	0.42	0.38	0.26	0.27	0.13	0.20	0.25	0.29	0.31	0.34	0.51
		Min-2w	0.26	0.47	0.36	0.33	0.22	0.12	0.05	0.12	0.21	0.27	0.25	0.24	0.05
	Ogasawara	Mean	0.17	0.33	0.22	0.15	0.23	0.09	0.08	0.21	0.08	0.12	0.14	0.15	0.16
		%	100	100	100	100	100	100	100	100	100	100	100	48	100
		Max-2w	0.22	0.37	0.24	0.20	0.34	0.10	0.08	0.34	0.09	0.13	0.14	0.16	0.37
		Min-2w	0.12	0.28	0.20	0.10	0.12	0.07	0.07	0.08	0.08	0.10	0.14	0.14	0.07
	Tokyo	Mean	0.15	0.15	0.25	0.17	0.20	0.19	0.22	0.16	0.19	0.24	0.20	0.17	0.19
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.19	0.16	0.26	0.19	0.20	0.21	0.23	0.19	0.23	0.31	0.25	0.19	0.31
		Min-2w	0.11	0.14	0.24	0.14	0.20	0.14	0.21	0.13	0.16	0.16	0.14	0.13	0.11
Malaysia	Tanah Rata	Mean	0.03	0.17	0.04	0.09	0.14	0.13	0.09	0.21	0.03	0.04	0.05	0.04	0.09
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.06	0.41	0.09	0.13	0.22	0.17	0.13	0.41	0.04	0.07	0.08	0.07	0.41
		Min-w	0.02	0.07	N.D.	0.07	0.05	0.08	0.07	0.04	0.01	N.D.	0.04	N.D.	N.D.
	Petaling Jaya	Mean	0.16	0.47	0.11	0.21	0.29	0.34	0.26	0.34	0.02	0.10	0.20	0.14	0.23
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.20	0.82	0.33	0.26	0.42	0.41	0.28	0.62	0.03	0.37	0.40	0.23	0.82
		Min-w	0.09	0.27	N.D.	0.08	0.08	0.20	0.22	0.02	N.D.	0.02	0.02	0.07	N.D.
	Danum Valley	Mean	0.05	0.18	0.09	0.12	0.22	0.17	0.17	0.21	0.03	0.05	0.15	0.10	0.12
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.10	0.22	0.11	0.17	0.24	0.21	0.17	0.21	0.03	0.06	0.16	0.17	0.24
		Min-2w	N.D.	0.15	0.07	0.01	0.20	0.13	0.16	0.20	0.02	0.05	0.14	0.03	N.D.
Mongolia	Ulaanbaatar	Mean	-	-	-	-	0.07	0.25	0.13	0.09	0.05	0.11	-	-	0.12
		%	0	0	0	0	59	100	100	100	100	40	0	0	42
		Max-w	-	-	-	-	0.10	0.32	0.22	0.17	0.07	0.22	-	-	0.32
		Min-w	-	-	-	-	0.04	0.14	0.10	N.D.	0.02	N.D.	-	-	N.D.
	Terej	Mean	0.17	0.03	0.07	0.19	0.15	0.02	0.04	0.05	0.03	0.05	0.05	0.16	0.09
		%	100	100	100	70	100	100	100	45	100	100	100	100	93
		Max-2w	0.26	0.03	0.08	0.19	0.26	0.03	0.06	0.05	0.04	0.09	0.07	0.39	0.39
		Min-2w	0.05	0.03	0.05	0.19	0.10	0.01	0.01	0.05	0.02	0.01	0.02	0.03	0.01

Table 4.18 Particulate matter component: K⁺

Unit : $\mu\text{g}/\text{m}^3$		2008												Annual	
Country	Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Philippines	Metro Manila	Mean	0.99	0.36	0.30	0.22	0.27	0.36	0.21	0.44	0.13	0.93	-	-	0.43
		%	100	100	100	100	100	100	100	55	100	100	0	0	81
		Max-w	3.99	0.45	0.51	0.37	0.58	0.99	0.35	0.86	0.35	2.98	-	-	3.99
		Min-w	0.07	0.16	0.20	0.01	N.D.	N.D.	0.04	0.18	N.D.	N.D.	-	-	N.D.
	Los Banos	Mean	0.12	0.18	0.15	0.18	0.29	0.20	0.10	0.16	0.13	-	-	-	0.17
		%	100	100	100	100	100	100	100	100	52	0	0	0	71
		Max-w	0.16	0.19	0.24	0.22	0.38	0.37	0.17	0.21	0.13	-	-	-	0.38
		Min-w	0.07	0.17	N.D.	0.15	0.25	0.01	0.01	0.09	0.12	-	-	-	-
	Mt. Sto. Tomas	Mean	0.15	0.14	0.17	0.40	1.88	0.48	0.13	0.32	0.14	0.16	0.16	0.19	0.39
		%	100	100	100	100	100	100	100	100	100	100	100	22	94
		Max-w	0.25	0.34	0.35	0.53	8.16	0.67	0.21	0.96	0.17	0.22	0.20	0.19	8.16
		Min-w	0.01	0.07	0.04	0.25	0.25	0.28	N.D.	0.08	0.10	0.12	0.11	0.19	N.D.
Republic of Korea	Kanghwa	Mean	0.29	0.43	0.30	0.43	0.09	0.07	0.13	0.17	0.08	0.23	0.17	0.37	0.25
		%	16	17	16	17	16	13	6	13	10	13	13	16	14
		Max-d	0.50	0.63	0.47	0.64	0.14	0.13	0.16	0.24	0.14	0.49	0.43	0.66	0.66
		Min-d	0.09	0.29	0.20	0.22	0.04	0.02	0.10	0.10	0.04	0.03	0.02	0.14	0.02
	Cheju (Kosan)	Mean	0.49	0.39	0.26	0.37	0.38	-	0.25	0.22	0.11	-	0.33	0.30	0.33
		%	16	14	16	13	10	0	19	3	3	0	17	16	11
		Max-d	0.98	1.04	0.44	0.57	0.47	-	0.78	0.22	0.11	-	0.69	0.64	1.04
		Min-d	0.19	0.12	0.15	0.19	0.27	-	0.08	0.22	0.11	-	0.06	0.08	0.06
	Imsil	Mean	0.29	0.54	0.47	0.52	0.21	-	-	0.27	0.09	-	0.50	0.47	0.37
		%	3	3	10	13	6	0	0	16	13	0	17	16	8
		Max-d	0.29	0.54	0.48	0.84	0.25	-	-	0.52	0.14	-	0.97	1.03	1.03
		Min-d	0.29	0.54	0.47	0.24	0.17	-	-	N.D.	0.01	-	0.26	0.06	N.D.
Russia	Mondy	Mean	0.01	0.05	0.02	0.01	N.D.	N.D.	0.03	0.04	0.02	N.D.	0.03	0.03	0.02
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-m	0.01	0.05	0.02	0.01	N.D.	N.D.	0.03	0.04	0.02	N.D.	0.03	0.03	0.05
		Min-m	0.01	0.05	0.02	0.01	N.D.	N.D.	0.03	0.04	0.02	N.D.	0.03	0.03	N.D.
	Listvianka	Mean	0.09	0.12	0.07	0.07	0.11	0.11	0.07	0.06	0.04	0.16	0.04	0.14	0.09
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.15	0.18	0.10	0.07	0.19	0.23	0.14	0.11	0.08	0.27	0.05	0.18	0.27
		Min-w	0.04	0.06	0.04	0.06	0.06	0.04	0.02	0.02	0.01	0.05	0.03	0.05	0.01
	Irkutsk	Mean	0.30	0.20	0.09	0.20	0.24	0.16	0.10	0.13	0.12	0.17	0.23	0.60	0.21
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.62	0.32	0.10	0.29	0.47	0.21	0.13	0.18	0.29	0.38	0.35	1.09	1.09
		Min-w	N.D.	0.06	0.08	0.14	0.03	0.09	0.07	0.07	0.03	0.06	0.12	0.06	N.D.
Primorskaya	Mean	0.63	0.64	0.40	0.38	0.41	0.11	0.08	0.09	0.06	0.48	0.68	0.48	0.37	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-2w	0.66	0.69	0.45	0.40	0.56	0.16	0.12	0.14	0.07	0.65	0.84	0.49	0.84	
	Min-2w	0.61	0.58	0.34	0.36	0.26	0.07	0.03	0.05	0.06	0.31	0.51	0.48	0.03	
Thailand	Bangkok	Mean	1.10	0.01	0.57	0.31	0.41	N.D.	0.25	0.27	0.46	0.32	0.45	0.45	0.36
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	1.29	0.04	1.35	0.40	0.90	0.02	0.45	0.32	0.72	0.46	0.61	1.21	1.35
		Min-10d	0.90	N.D.	0.02	0.26	N.D.	N.D.	0.08	0.18	0.04	0.19	0.36	0.04	N.D.
	Patumthani	Mean	1.12	1.17	0.40	0.19	N.D.	N.D.	0.08	0.04	0.01	0.01	0.04	N.D.	0.26
		%	100	62	67	68	30	100	100	100	100	100	100	39	81
		Max-10d	1.97	1.23	0.55	0.27	N.D.	N.D.	0.12	0.10	0.02	0.04	0.07	N.D.	1.97
		Min-10d	0.04	1.10	0.24	0.12	N.D.	N.D.	0.01	N.D.	N.D.	N.D.	0.02	N.D.	N.D.
	Khanchanaburi (Vachiralongkom Dam)	Mean	-	-	0.26	-	-	-	-	0.08	-	-	0.23	-	0.19
		%	0	0	42	0	0	0	0	62	0	0	76	0	12
		Max-2w	-	-	0.26	-	-	-	-	0.08	-	-	0.23	-	0.26
		Min-2w	-	-	0.26	-	-	-	-	0.08	-	-	0.23	-	0.08
Chiangmai (Mae Hia)	Mean	1.01	0.62	0.43	0.58	0.11	0.14	0.11	0.68	0.04	0.14	0.32	0.31	0.37	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-10d	1.10	0.89	1.30	1.35	0.34	0.26	0.23	0.99	0.06	0.22	0.39	0.67	1.35	
	Min-10d	0.95	0.45	N.D.	0.10	N.D.	0.04	N.D.	0.19	0.02	N.D.	0.27	0.11	N.D.	
Nakhon Ratchasima	Mean	0.84	0.79	0.70	0.39	0.17	0.10	0.08	0.10	0.11	0.19	0.16	0.44	0.34	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-10d	0.99	1.12	1.00	0.41	0.19	0.16	0.17	0.13	0.19	0.26	0.27	0.76	1.12	
	Min-10d	0.74	0.54	0.46	0.36	0.14	0.03	0.02	0.08	0.06	0.14	0.02	0.13	0.02	
Viet Nam	Ha Noi	Mean	0.96	2.85	1.75	0.47	1.43	0.86	1.05	0.40	0.86	0.63	0.41	0.28	1.00
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	1.94	6.39	4.94	0.73	1.89	1.49	1.85	0.62	1.84	1.22	0.67	0.35	6.39
		Min-w	0.39	0.58	0.46	0.20	0.54	0.20	0.45	0.09	0.35	0.25	0.16	0.13	0.09
	Hoa Binh	Mean	3.84	0.61	0.32	0.52	0.92	0.75	0.78	0.84	0.25	0.80	0.42	0.61	0.94
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	8.55	1.47	0.60	0.95	2.10	1.33	1.18	1.48	0.47	1.85	1.03	1.89	8.55
		Min-w	0.03	0.17	0.12	N.D.	0.10	0.27	0.16	0.26	N.D.	0.18	0.05	0.04	N.D.

Mean : monthly or annual arithmetic average values
 Max-d : maximum values of daily data
 Min-d : minimum values of daily data
 Max-10d : maximum values of 10-day interval data
 Min-10d : minimum values of 10-day interval data
 Max-w : maximum values of weekly data
 Min-w : minimum values of weekly data
 Max-2w : maximum values of biweekly data
 Min-2w : minimum values of biweekly data
 Max-m : maximum values of monthly data
 Min-m : minimum values of monthly data
 % : monthly or annual percentages of period of available data

Table 4.19 Particulate matter component: Mg²⁺

Unit : µg/m ³		2008												Annual	
Country	Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Philippines	Metro Manila	Mean	0.08	0.13	0.11	0.09	0.16	0.14	0.22	0.40	0.14	0.30	-	-	0.17
		%	100	100	100	100	100	100	100	55	100	100	0	0	81
		Max-w	0.20	0.20	0.23	0.17	0.40	0.55	0.54	0.79	0.30	0.62	-	-	0.79
		Min-w	N.D.	0.05	0.06	0.03	0.02	N.D.	0.04	0.20	0.02	0.15	-	-	N.D.
	Los Banos	Mean	0.11	0.14	0.11	0.09	0.11	0.11	0.06	0.09	0.17	-	-	-	0.11
		%	100	100	100	100	100	100	100	100	52	0	0	0	71
		Max-w	0.16	0.18	0.29	0.16	0.28	0.22	0.12	0.19	0.26	-	-	-	0.29
		Min-w	0.05	0.11	N.D.	0.04	N.D.	0.06	N.D.	0.02	0.07	-	-	-	N.D.
	Mt. Sto. Tomas	Mean	0.17	0.19	0.10	0.02	0.11	0.03	0.03	0.03	0.04	0.02	0.05	N.D.	0.07
		%	100	100	100	100	100	100	100	100	100	100	100	22	94
		Max-w	0.26	0.20	0.18	0.03	0.43	0.05	0.05	0.04	0.06	0.04	0.07	N.D.	0.43
		Min-w	N.D.	0.17	0.02	0.02	0.01	0.02	N.D.	0.01	0.02	N.D.	0.03	N.D.	N.D.
Republic of Korea	Kanghwa	Mean	N.D.	0.03	0.02	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	0.02	0.01	
		%	16	17	16	17	16	13	6	13	10	13	13	16	14
		Max-d	0.02	0.07	0.03	0.04	N.D.	N.D.	N.D.	N.D.	0.01	0.01	0.02	0.03	0.07
		Min-d	N.D.	0.01	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Cheju (Kosan)	Mean	0.07	0.02	N.D.	0.01	0.01	-	N.D.	0.01	N.D.	-	0.02	N.D.	0.02
		%	16	14	16	13	10	0	19	3	3	0	17	16	11
		Max-d	0.10	0.03	0.01	0.02	0.02	-	0.02	0.01	N.D.	-	0.03	0.02	0.10
		Min-d	0.05	N.D.	N.D.	N.D.	N.D.	-	N.D.	0.01	N.D.	-	0.02	N.D.	N.D.
	Imsil	Mean	0.02	0.02	0.02	0.02	N.D.	-	-	N.D.	N.D.	-	0.02	0.01	0.01
		%	3	3	10	13	6	0	0	16	13	0	17	16	8
		Max-d	0.02	0.02	0.03	0.05	N.D.	-	-	N.D.	N.D.	-	0.02	0.02	0.05
		Min-d	0.02	0.02	0.01	N.D.	N.D.	-	-	N.D.	N.D.	-	N.D.	N.D.	N.D.
Russia	Mondy	Mean	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.02	N.D.	N.D.	N.D.	0.01	
		%	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-m	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.02	N.D.	N.D.	N.D.	N.D.	0.02
		Min-m	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.02	N.D.	N.D.	N.D.	N.D.	N.D.
	Listvianka	Mean	0.04	0.03	0.02	0.02	0.03	0.02	N.D.	N.D.	N.D.	0.03	N.D.	0.04	0.02
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.05	0.06	0.03	0.02	0.05	0.03	N.D.	N.D.	0.01	0.07	N.D.	0.06	0.07
		Min-w	0.03	0.02	0.01	0.01	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	N.D.
	Irkutsk	Mean	0.18	0.15	0.10	0.13	0.16	0.13	0.11	0.15	0.08	0.11	0.10	0.16	0.13
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.35	0.22	0.17	0.17	0.31	0.27	0.12	0.24	0.13	0.16	0.15	0.41	0.41
		Min-w	N.D.	0.05	0.06	0.10	0.02	0.02	0.09	0.08	0.01	0.06	0.05	0.02	N.D.
Primorskaya	Mean	0.05	0.07	0.08	0.10	0.28	0.04	0.01	0.03	0.02	0.08	0.10	0.13	0.08	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-2w	0.06	0.09	0.09	0.11	0.44	0.05	0.02	0.04	0.02	0.08	0.14	0.17	0.44	
	Min-2w	0.03	0.06	0.08	0.10	0.11	0.03	N.D.	0.02	0.02	0.07	0.06	0.10	N.D.	
Thailand	Bangkok	Mean	0.12	N.D.	0.10	0.08	0.18	N.D.	0.05	0.10	0.08	0.09	0.08	0.05	0.08
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	0.12	0.02	0.14	0.14	0.33	N.D.	0.09	0.23	0.13	0.10	0.09	0.10	0.33
		Min-10d	0.12	N.D.	N.D.	0.01	0.08	N.D.	N.D.	0.04	N.D.	0.06	0.07	0.02	N.D.
	Patumthani	Mean	0.10	0.09	0.08	0.04	0.11	0.09	0.11	0.02	0.01	0.01	0.02	N.D.	0.06
		%	100	62	67	68	30	100	100	100	100	100	100	39	81
		Max-10d	0.16	0.09	0.16	0.06	0.11	0.16	0.32	0.07	0.02	0.03	0.05	N.D.	0.32
		Min-10d	0.02	0.09	N.D.	0.03	0.11	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	0.24	-	-	-	-	0.02	-	-	0.03	-	0.10
		%	0	0	42	0	0	0	0	62	0	0	76	0	12
		Max-2w	-	-	0.24	-	-	-	-	0.02	-	-	0.03	-	0.24
		Min-2w	-	-	0.24	-	-	-	-	0.02	-	-	0.03	-	0.02
Chiangmai (Mae Hia)	Mean	0.05	0.07	0.07	0.06	0.04	0.04	0.04	0.03	0.02	0.02	0.02	0.02	0.04	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-10d	0.07	0.07	0.09	0.15	0.11	0.09	0.11	0.07	0.04	0.07	0.04	0.05	0.15	
	Min-10d	0.02	0.06	0.04	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Nakhon Ratchasima	Mean	0.07	0.08	0.10	0.03	0.07	0.04	0.05	0.05	0.03	0.02	0.04	0.05	0.05	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-10d	0.08	0.09	0.13	0.03	0.07	0.08	0.08	0.06	0.04	0.03	0.06	0.06	0.13	
	Min-10d	0.03	0.07	0.08	0.03	0.06	N.D.	0.04	0.03	0.02	0.01	0.02	0.02	N.D.	
Viet Nam	Ha Noi	Mean	0.18	0.23	0.15	0.17	0.37	0.09	0.41	0.09	0.14	0.10	0.07	0.04	0.18
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.34	0.39	0.21	0.40	0.86	0.16	0.73	0.15	0.27	0.17	0.12	0.06	0.86
		Min-w	0.08	0.06	0.07	0.04	0.11	0.03	0.04	0.02	0.08	0.04	0.04	0.02	0.02
	Hoa Binh	Mean	0.30	0.18	0.04	0.06	0.08	0.08	0.07	0.07	0.02	0.03	0.02	0.06	0.09
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.79	0.32	0.06	0.10	0.14	0.11	0.09	0.11	0.04	0.04	0.03	0.10	0.79
		Min-w	0.01	0.02	0.03	0.05	0.02	0.05	0.03	0.05	N.D.	0.01	N.D.	0.01	N.D.

Mean : monthly or annual arithmetic average values
 Max-d : maximum values of daily data
 Min-d : minimum values of daily data
 Max-10d : maximum values of 10-day interval data
 Min-10d : minimum values of 10-day interval data
 Max-w : maximum values of weekly data
 Min-w : minimum values of weekly data
 Max-2w : maximum values of biweekly data
 Min-2w : minimum values of biweekly data
 Max-m : maximum values of monthly data
 Min-m : minimum values of monthly data
 % : monthly or annual percentages of period of available data

Table 4.20 Particulate matter component: Ca²⁺

Unit : µg/m ³		2008												Annual	
Country	Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
China	Hongwen	Mean	2.54	1.91	4.80	2.94	3.39	1.59	1.71	3.42	2.97	1.39	0.96	4.63	2.79
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	3.45	2.77	6.52	3.97	4.38	2.00	3.08	6.33	3.84	2.51	1.58	5.72	6.52
		Min-w	1.20	0.29	3.65	1.70	2.37	1.15	0.45	1.57	2.10	0.21	0.34	3.81	0.21
Indonesia	Serpong	Mean	0.06	0.07	0.80	0.23	0.23	0.23	0.05	N.D.	N.D.	N.D.	N.D.	N.D.	0.13
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.07	0.08	1.30	0.33	0.34	0.23	0.09	N.D.	N.D.	N.D.	N.D.	0.01	1.30
		Min-2w	0.05	0.06	0.30	0.13	0.13	0.23	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Japan	Rishiri	Mean	0.10	0.11	0.20	0.24	0.22	0.08	0.11	0.09	0.22	0.25	0.21	0.20	0.17
		%	100	100	100	100	100	100	50	100	100	100	100	100	96
		Max-2w	0.14	0.11	0.22	0.28	0.31	0.09	0.11	0.12	0.30	0.25	0.26	0.31	0.31
		Min-2w	0.05	0.11	0.18	0.20	0.12	0.06	0.11	0.05	0.15	0.24	0.15	0.09	0.05
	Ochiishi	Mean				0.20	0.23	0.05	0.02	0.04	0.12	0.16	0.22	0.28	0.15
		%				100	100	100	100	100	100	100	100	100	100
		Max-2w				0.26	0.31	0.08	0.02	0.05	0.19	0.19	0.33	0.42	0.42
		Min-2w				0.15	0.15	0.03	0.02	0.02	0.04	0.13	0.10	0.13	0.02
	Tappi	Mean	0.14	0.43	0.37	0.39	0.34	0.08	0.06	0.06	0.23	0.36	0.70	0.45	0.30
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.17	0.43	0.39	0.40	0.45	0.11	0.07	0.06	0.28	0.43	0.90	1.12	1.12
		Min-2w	0.11	0.43	0.36	0.39	0.24	0.05	0.06	0.06	0.18	0.28	0.50	0.06	0.05
	Sado-seki	Mean	0.26	0.39	0.66	0.49	0.33	0.13	0.09	0.08	0.18	0.18	0.31	0.40	0.29
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.32	0.54	0.76	0.68	0.33	0.19	0.10	0.13	0.25	0.22	0.48	0.57	0.76
		Min-2w	0.20	0.25	0.56	0.30	0.33	0.10	0.08	0.04	0.12	0.14	0.14	0.25	0.04
	Happo	Mean	0.07	0.14	0.41	0.34	0.26	0.05	N.D.	0.02	N.D.	0.08	0.04	0.11	0.12
		%	100	100	100	100	100	100	100	100	100	100	100	68	96
		Max-2w	0.15	0.26	0.47	0.46	0.34	0.08	N.D.	0.04	N.D.	0.08	0.07	0.14	0.47
		Min-2w	N.D.	0.01	0.34	0.23	0.17	0.01	N.D.	N.D.	N.D.	0.07	N.D.	0.08	N.D.
	Ijira	Mean	0.06	0.07	0.28	0.18	0.29	0.13	0.12	0.06	0.07	0.08	0.07	0.12	0.13
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.11	0.12	0.32	0.19	0.42	0.13	0.14	0.09	0.10	0.09	0.11	0.27	0.42
		Min-2w	0.02	0.01	0.24	0.17	0.15	0.13	0.10	0.04	0.04	0.08	0.03	0.03	0.01
	Okii	Mean	0.19	0.32	0.17	0.40	0.06	0.17	0.12	0.13	0.14	0.11	0.34	0.43	0.22
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.30	0.42	0.33	0.48	0.10	0.32	0.12	0.13	0.20	0.15	0.44	0.66	0.66
		Min-2w	0.08	0.23	N.D.	0.33	0.02	0.08	0.12	0.12	0.09	0.06	0.24	0.23	N.D.
	Banryu	Mean	0.24	0.49	0.42	0.42	0.22	0.12	0.06	0.09	0.10	0.13	0.24	0.24	0.22
		%	100	100	100	85	100	100	100	100	100	100	100	100	96
		Max-2w	0.37	0.67	0.43	0.42	0.22	0.22	0.09	0.16	0.16	0.16	0.35	0.33	0.67
		Min-2w	0.12	0.30	0.42	0.42	0.21	0.04	0.02	0.03	0.04	0.10	0.13	0.16	0.02
	Yusuhara	Mean	0.03	0.23	0.44	0.24	0.46	0.07	0.05	0.06	0.07	0.02	0.01	0.03	0.14
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.06	0.34	0.57	0.32	0.75	0.16	0.06	0.08	0.08	0.03	0.03	0.05	0.75
		Min-2w	N.D.	0.11	0.30	0.16	0.18	0.01	0.04	0.04	0.06	0.01	N.D.	N.D.	N.D.
Hedo	Mean	0.30	0.91	0.73	0.57	0.31	0.17	0.10	0.17	0.17	0.26	0.29	0.41	0.34	
	%	100	50	100	100	100	100	100	100	100	100	100	100	96	
	Max-2w	0.36	0.91	0.84	0.60	0.32	0.27	0.14	0.24	0.21	0.28	0.33	0.50	0.91	
	Min-2w	0.24	0.91	0.63	0.55	0.29	0.11	0.07	0.10	0.13	0.24	0.25	0.34	0.07	
Ogasawara	Mean	0.16	0.29	0.30	0.40	0.15	0.06	0.05	0.06	0.05	0.10	0.17	0.15	0.16	
	%	100	100	100	100	100	100	100	100	100	100	100	48	96	
	Max-2w	0.21	0.36	0.31	0.64	0.18	0.08	0.06	0.07	0.06	0.12	0.17	0.17	0.64	
	Min-2w	0.12	0.23	0.29	0.16	0.12	0.05	0.03	0.04	0.03	0.08	0.17	0.14	0.03	
Tokyo	Mean	0.49	0.68	0.77	0.51	0.47	0.40	0.61	0.35	0.44	0.42	0.61	0.56	0.52	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-2w	0.56	0.96	0.81	0.58	0.54	0.46	0.65	0.41	0.47	0.50	0.73	0.86	0.96	
	Min-2w	0.42	0.39	0.74	0.44	0.40	0.31	0.57	0.29	0.41	0.35	0.49	0.40	0.29	
Malaysia	Tanah Rata	Mean	0.03	0.09	0.12	0.02	0.17	0.13	0.05	0.19	0.06	0.04	0.02	0.02	0.08
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.04	0.32	0.42	0.05	0.60	0.26	0.15	0.75	0.14	0.10	0.04	0.04	0.75
		Min-w	0.01	0.03	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Petaling Jaya	Mean	0.65	0.77	0.39	0.56	0.64	0.53	0.49	0.38	0.07	0.34	0.39	0.33	0.47
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.87	1.07	0.86	0.65	1.17	0.59	0.59	0.60	0.20	0.79	0.54	0.41	1.17
		Min-w	0.47	0.37	0.08	0.41	N.D.	0.42	0.42	0.10	N.D.	0.07	0.12	0.15	N.D.
	Danum Valley	Mean	0.02	0.04	N.D.	0.02	0.02	0.03	0.03	0.03	N.D.	N.D.	0.03	N.D.	0.02
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.03	0.06	N.D.	0.04	0.02	0.04	0.04	0.04	N.D.	N.D.	0.04	0.01	0.06
		Min-2w	0.01	0.02	N.D.	0.01	0.02	0.02	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Mongolia	Ulaanbaatar	Mean	-	-	-	-	1.92	6.25	5.21	2.07	0.35	4.00	-	-	3.38
		%	0	0	0	0	59	100	100	100	100	40	0	0	42
		Max-w	-	-	-	-	3.58	8.30	6.77	3.93	0.51	4.30	-	-	8.30
		Min-w	-	-	-	-	0.17	4.63	3.56	0.29	0.28	3.69	-	-	0.17
	Terej	Mean	0.43	0.87	0.50	1.79	0.72	0.29	0.21	0.28	0.17	0.12	0.12	0.16	0.42
		%	100	100	100	70	100	100	100	45	100	100	100	100	93
		Max-2w	0.51	0.93	0.52	1.79	0.97	0.32	0.23	0.28	0.29	0.18	0.20	0.23	1.79
		Min-2w	0.37	0.80	0.47	1.79	0.29	0.25	0.19	0.28	0.04	0.06	0.03	0.06	0.03

Table 4.20 Particulate matter component: Ca²⁺

Unit : µg/m ³		2008												Annual	
Country	Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Philippines	Metro Manila	Mean	0.22	0.50	1.61	0.81	0.78	0.80	1.40	1.32	0.25	1.13	-	-	0.87
		%	100	100	100	100	100	100	100	55	100	100	0	0	81
		Max-w	0.45	0.78	1.91	1.10	1.04	2.16	3.49	2.15	0.44	2.26	-	-	3.49
		Min-w	N.D.	0.29	1.19	0.58	0.60	N.D.	0.49	0.85	0.05	0.06	-	-	N.D.
	Los Banos	Mean	0.04	0.19	0.36	0.37	0.29	0.38	0.27	0.24	0.15	-	-	-	0.27
		%	100	100	100	100	100	100	100	100	52	0	0	0	71
		Max-w	0.08	0.26	0.51	0.68	0.85	1.17	0.48	0.38	0.26	-	-	-	1.17
		Min-w	N.D.	0.10	0.24	0.20	0.03	0.03	0.10	0.07	0.04	-	-	-	N.D.
	Mt. Sto. Tomas	Mean	0.13	0.17	0.42	0.60	3.47	1.12	0.34	0.40	0.35	0.27	1.13	0.03	0.77
		%	100	100	100	100	100	100	100	100	100	100	100	22	94
		Max-w	0.27	0.32	0.87	0.62	12.66	1.95	0.60	0.70	0.65	0.48	1.74	0.03	12.66
		Min-w	0.03	N.D.	N.D.	0.57	0.66	0.54	N.D.	0.11	0.14	0.06	0.35	0.03	N.D.
Republic of Korea	Kanghwa	Mean	0.02	0.10	0.02	0.03	0.04	0.07	0.11	0.09	0.08	0.08	0.10	0.13	0.07
		%	16	17	16	17	16	13	6	13	10	13	13	16	14
		Max-d	0.04	0.23	0.05	0.10	0.06	0.11	0.15	0.10	0.13	0.12	0.16	0.17	0.23
		Min-d	N.D.	0.05	N.D.	N.D.	0.02	0.04	0.06	0.09	0.04	0.04	0.07	0.07	N.D.
	Cheju (Kosan)	Mean	0.28	0.02	0.01	0.10	0.10	-	0.10	0.12	0.14	-	0.17	0.09	0.11
		%	16	14	16	13	10	0	19	3	3	0	17	16	11
		Max-d	0.34	0.04	0.02	0.17	0.15	-	0.18	0.12	0.14	-	0.23	0.09	0.34
		Min-d	0.22	N.D.	N.D.	0.02	0.04	-	0.05	0.12	0.14	-	0.13	0.08	N.D.
	Imsil	Mean	0.06	N.D.	0.10	0.12	0.08	-	-	0.08	0.05	-	0.21	0.12	0.11
		%	3	3	10	13	6	0	0	16	13	0	17	16	8
		Max-d	0.06	N.D.	0.11	0.18	0.08	-	-	0.13	0.07	-	0.27	0.20	0.27
		Min-d	0.06	N.D.	0.09	0.07	0.08	-	-	N.D.	0.03	-	0.12	0.03	N.D.
Russia	Mondy	Mean	0.05	N.D.	0.02	0.01	0.01	N.D.	0.05	0.19	0.07	0.03	0.11	0.05	0.05
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-m	0.05	N.D.	0.02	0.01	0.01	N.D.	0.05	0.19	0.07	0.03	0.11	0.05	0.19
		Min-m	0.05	N.D.	0.02	0.01	0.01	N.D.	0.05	0.19	0.07	0.03	0.11	0.05	N.D.
	Listvianka	Mean	0.13	0.14	0.18	0.13	0.34	0.13	0.02	0.05	0.04	0.19	0.01	0.30	0.15
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.25	0.37	0.32	0.30	0.53	0.24	0.06	0.07	0.09	0.61	0.05	0.42	0.61
		Min-w	0.04	0.02	0.10	N.D.	0.12	0.03	N.D.	0.04	0.02	0.02	N.D.	0.07	N.D.
	Irkutsk	Mean	0.95	0.61	0.49	0.60	0.99	0.77	0.81	1.01	0.61	0.90	0.71	1.40	0.82
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	1.60	0.83	0.96	0.83	2.03	1.23	0.89	1.79	1.24	1.22	0.99	3.80	3.80
		Min-w	N.D.	0.22	0.15	0.41	0.26	0.38	0.73	0.51	0.03	0.47	0.24	0.06	N.D.
Primorskaya	Mean	0.26	0.57	0.54	0.65	0.52	0.12	0.07	0.17	0.09	0.41	0.98	0.97	0.45	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-2w	0.26	0.61	0.56	0.71	0.61	0.19	0.07	0.24	0.11	0.46	1.30	1.19	1.30	
	Min-2w	0.26	0.52	0.52	0.59	0.43	0.06	0.06	0.10	0.07	0.37	0.65	0.76	0.06	
Thailand	Bangkok	Mean	1.83	0.03	0.80	0.68	0.95	N.D.	0.47	0.88	0.46	1.16	1.73	1.00	0.80
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	2.04	0.10	1.62	0.84	1.85	N.D.	0.77	1.52	0.95	1.72	2.53	2.41	2.53
		Min-10d	1.62	N.D.	0.05	0.59	0.32	N.D.	0.11	0.16	N.D.	0.66	1.31	0.15	N.D.
	Patumthani	Mean	1.22	1.32	0.56	0.50	0.38	0.22	0.08	0.08	0.04	N.D.	0.10	0.09	0.36
		%	100	62	67	68	30	100	100	100	100	100	100	39	81
		Max-10d	2.03	1.61	1.05	0.57	0.38	0.34	0.12	0.18	0.07	N.D.	0.30	0.09	2.03
		Min-10d	0.06	1.03	0.06	0.44	0.38	N.D.	0.03	0.03	N.D.	N.D.	N.D.	0.09	N.D.
	Khanchanaburi (Vachiralongkom Dam)	Mean	-	-	0.40	-	-	-	-	0.03	-	-	0.22	-	0.22
		%	0	0	42	0	0	0	0	62	0	0	76	0	12
		Max-2w	-	-	0.40	-	-	-	-	0.03	-	-	0.22	-	0.40
		Min-2w	-	-	0.40	-	-	-	-	0.03	-	-	0.22	-	0.03
Chiangmai (Mae Hia)	Mean	0.73	0.66	0.66	0.66	0.28	0.47	0.31	0.42	0.21	0.18	0.34	0.34	0.44	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-10d	0.81	0.76	0.81	1.12	0.65	1.11	0.60	1.07	0.37	0.30	0.47	0.65	1.12	
	Min-10d	0.68	0.49	0.45	0.23	0.08	0.08	0.02	N.D.	0.10	N.D.	0.17	0.14	N.D.	
Nakhon Ratchasima	Mean	0.31	0.65	0.56	0.14	0.19	0.29	0.31	0.22	0.09	0.09	0.15	0.31	0.28	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-10d	0.38	0.71	1.06	0.17	0.20	0.59	0.42	0.28	0.19	0.11	0.31	0.40	1.06	
	Min-10d	0.27	0.57	0.29	0.11	0.17	N.D.	0.25	0.14	0.03	0.07	N.D.	0.19	N.D.	
Viet Nam	Ha Noi	Mean	2.25	2.60	1.93	2.05	4.85	1.05	5.42	1.17	5.04	3.02	2.14	1.31	2.83
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	4.36	5.52	2.97	4.30	10.74	2.00	9.36	1.94	9.69	4.66	3.24	2.08	10.74
		Min-w	0.87	0.76	0.98	0.58	1.66	0.26	0.33	0.46	2.83	1.09	1.06	0.56	0.26
	Hoa Binh	Mean	3.35	2.90	0.35	1.51	2.04	0.69	0.57	0.90	0.58	0.60	0.47	0.94	1.27
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	10.94	5.13	0.43	2.39	3.15	0.85	0.71	1.31	1.15	0.98	0.68	2.10	10.94
		Min-w	0.21	0.25	0.27	0.69	0.63	0.55	0.39	0.52	0.15	0.25	0.15	0.29	0.15

Mean : monthly or annual arithmetic average values
 Max-d : maximum values of daily data
 Min-d : minimum values of daily data
 Max-10d : maximum values of 10-day interval data
 Min-10d : minimum values of 10-day interval data
 Max-w : maximum values of weekly data
 Min-w : minimum values of weekly data
 Max-2w : maximum values of biweekly data
 Min-2w : minimum values of biweekly data
 Max-m : maximum values of monthly data
 Min-m : minimum values of monthly data
 % : monthly or annual percentages of period of available data

Table 4.21 Annual SO₂ concentration

unit: ppb

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008
China	Jinyunshan		10.0	11.0	16.3	15.8	17.8	17.2	12.2	13.3
	Weishuiyuan	6.2	5.1	4.6	3.8	8.9	11.7	15.4		
	Hongwen	5.9	8.5	10.2	10.0	7.2	8.2	9.4	10.9	9.1
	Xiang Zhou	7.9	10.0	9.4	10.1	8.2	6.3	8.2	6.3	6.6
Indonesia	Jakarta								11.0	7.4
	Serpong	2.2	0.9	1.0	1.7	1.0	1.4	0.5	1.5	1.6
	Kototabang								3.3	6.3
	Bandung									2.7
Japan	Rishiri	N.D.	0.2	0.1	0.2	0.2	0.1	0.2	0.3	0.2
	Ochiishi									0.2
	Tappi	0.3	0.5	0.3	0.5	0.5	0.5	0.5	0.5	0.4
	Sado-seki	0.2	0.6	0.5	0.4	0.7	0.6	0.5	0.6	0.4
	Happo	0.2	0.9	0.5	0.4	0.7	0.7	0.6	0.8	0.6
	Ijira	0.1	0.9	0.5	0.4	0.6	0.4	0.2	0.4	0.2
	Oki	0.3	0.6	0.4	0.4	0.7	0.7	0.7	0.9	0.8
	Banryu	0.5	1.0	0.9	1.0	0.9	1.0	0.6	1.1	1.0
	Yusuhara	0.6	1.1	0.8	0.9	1.0	1.1	0.9	1.2	1.0
	Hedo	0.2	0.3	0.3	0.3	0.2	0.4	0.3	0.4	0.3
	Ogasawara	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Tokyo								2.2	2.2	
Malaysia	Tanah Rata	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	3.3	N.D.
	Petaling Jaya		5.3	5.0	4.0	1.3	3.8	6.3	2.0	1.9
	Danum Valley							0.1	0.1	N.D.
Mongolia	Ulaanbaatar	1.5	1.7	1.0	1.7	2.9	4.3	4.8	4.3	1.8
	Terelj	0.4	0.5	0.3	0.4	0.5	0.5	0.5	1.4	0.5
Philippines	Metro Manila	4.8	4.2	4.3	4.4	3.4	3.1	2.1	2.7	1.2
	Los Banos	0.8	0.7	0.9	0.9	0.4	0.2	0.3	0.4	0.3
	Mt. Sto. Tomas							N.D.	N.D.	0.4
Republic of Korea	Kanghwa			3.6	1.9	3.6	2.8	3.4	2.8	2.9
	Cheju (Kosan)			1.3	3.9	1.8	2.2	3.4	2.3	2.2
	Imsil			2.3	1.5	1.2	2.5	1.8	2.1	2.3
Russia	Mondy	N.D.	0.2	N.D.	0.2	0.2	1.2	0.7	0.4	0.3
	Listvyanka	1.0	2.1	1.1	1.0	0.7	6.0	3.5	1.1	1.2
	Irkutsk	3.4	3.0	0.7	1.0	1.4	5.1	4.0	2.4	2.2
	Primorskaya			0.5	0.4	0.5	1.6	1.2	0.7	0.9
Thailand	Bangkok	4.2	2.8	2.5	2.4	3.3	7.3	4.1	0.8	2.1
	Samutprakarn	4.1	4.7	4.4	5.5	5.9	6.6	6.5	5.8	4.8
	Patumthani				2.4	1.3	1.6	0.3	1.8	0.5
	Khanchanaburi	1.0	0.5	1.4	***	1.7	1.2	1.3	1.3	1.6
	Chiang Mai (Mae Hia)		0.5	0.5	1.4	1.5	1.0	0.8	0.9	0.8
	Nakhon Ratchasima							2.7	0.4	2.7
Viet Nam	Hanoi	0.8	3.5	2.7	2.2	4.8	2.4	3.9	1.7	1.3
	Hoa Binh	0.9	2.6	2.4	1.3	2.1	2.7	2.0	1.2	1.0

[***]: No data or not measured

Black column: Monitoring was not carried out

Table 4.22 Annual HNO₃ concentration

unit: ppb

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008
China	Jinyunshan									
	Weishuiyuan									
	Hongwen								0.9	1.7
	Xiang Zhou									
Indonesia	Jakarta									
	Serpong		0.4	1.3	0.7	0.6	0.5	0.2	0.4	0.2
	Kototabang									
	Bandung									
Japan	Rishiri			N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Ochiishi									N.D.
	Tappi				0.2	0.2	0.1	0.1	0.2	0.2
	Sado-seki				0.3	0.3	0.3	0.3	0.2	0.2
	Happo				0.4	0.3	0.2	0.3	0.4	0.4
	Ijira				0.3	0.4	0.4	0.4	0.3	0.3
	Oki			0.1	N.D.	N.D.	0.2	0.2	0.2	0.2
	Banryu				0.2	0.3	0.4	0.3	0.4	0.3
	Yusuhara				0.3	0.4	0.5	0.5	0.5	0.3
	Hedo				N.D.	0.1	N.D.	N.D.	0.1	0.1
	Ogasawara				N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Tokyo								1.1	1.0	
Malaysia	Tanah Rata	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	N.D.	0.2	0.1
	Petaling Jaya		1.4	1.8	2.3	0.5	0.7	1.8	0.7	0.8
	Danum Valley							N.D.	N.D.	N.D.
Mongolia	Ulaanbaatar	0.2	0.1	N.D.	0.2	N.D.	N.D.	0.1	0.2	0.2
	Terelj	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.1
Philippines	Metro Manila	0.7	0.3	0.2	0.4	0.5	0.4	0.3	0.4	0.4
	Los Banos	0.3	0.2	0.1	0.2	0.2	N.D.	N.D.	0.2	0.1
	Mt. Sto. Tomas							N.D.	N.D.	0.3
Republic of Korea	Kanghwa				0.2	0.3	***	0.4	0.7	0.5
	Cheju (Kosan)				0.2	0.9	***	0.5	***	0.7
	Imsil		0.5	***	1.7	0.4	***	0.6	0.4	0.4
Russia	Mondy	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Listvyanka	0.2	0.2	0.4	0.1	0.1	N.D.	0.2	N.D.	N.D.
	Irkutsk	N.D.	0.4	0.1	0.2	N.D.	0.4	N.D.	0.2	0.2
	Primorskaya		0.2	0.1	N.D.	N.D.	N.D.	0.5	N.D.	0.1
Thailand	Bangkok				0.7	0.9	0.5	1.0	0.5	0.5
	Samutprakarn									
	Patumthani				0.6	1.3	0.3	0.3	0.8	0.3
	Khanchanaburi			0.2	***	0.6	N.D.	0.2	N.D.	0.2
	Chiang Mai (Mae Hia)		0.2	0.2	0.1	0.4	0.4	0.2	0.5	0.4
	Nakhon Ratchasima							0.6	0.3	0.2
Viet Nam	Hanoi	0.6	0.5	1.9	0.7	1.5	1.0	0.9	1.0	0.5
	Hoa Binh	0.5	0.2	1.8	0.4	0.5	0.8	0.3	0.4	0.4

[***]: No data or not measured

Black column: Monitoring was not carried out

Table 4.23 Annual HCl concentration

unit: ppb

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008
China	Jinyunshan									
	Weishuiyuan									
	Hongwen								1.5	1.2
	Xiang Zhou									
Indonesia	Jakarta									
	Serpong		0.4	2.6	1.8	1.5	1.1	0.5	1.7	0.5
	Kototabang									
	Bandung									
Japan	Rishiri			0.3	0.4	0.5	0.4	0.4	0.4	0.5
	Ochiishi									0.4
	Tappi				0.7	0.6	0.5	0.5	0.6	0.6
	Sado-seki				0.9	1.0	1.1	0.9	0.9	0.8
	Happo				0.2	0.2	0.2	0.2	0.2	0.2
	Ijira				0.2	0.3	0.2	0.2	0.3	0.2
	Oki			0.2	0.3	0.5	0.9	0.9	1.1	0.9
	Banryu				0.2	0.6	0.9	0.8	0.9	0.7
	Yusuhara				0.3	0.3	0.4	0.4	0.4	0.3
	Hedo				0.9	1.0	0.9	0.9	1.0	0.9
	Ogasawara				0.3	0.5	0.5	0.4	0.7	0.6
	Tokyo								1.0	0.8
Malaysia	Tanah Rata	0.1	N.D.	***	***	0.3	0.1	N.D.	0.1	0.4
	Petaling Jaya		1.4	***	***	0.7	0.9	1.6	0.7	1.1
	Danum Valley							0.2	0.2	0.3
Mongolia	Ulaanbaatar	0.3	0.1	0.4	1.0	0.9	0.7	1.0	0.9	0.7
	Terelj	0.1	N.D.	0.3	0.7	0.6	0.4	0.4	0.5	0.4
Philippines	Metro Manila	5.4	0.3	0.9	1.2	1.0	0.9	0.5	0.7	0.7
	Los Banos	1.5	0.2	0.6	1.2	0.5	0.3	0.3	0.8	0.4
	Mt. Sto. Tomas							0.2	N.D.	0.6
Republic of Korea	Kanghwa				0.3	0.1	***	0.2	0.2	N.D.
	Cheju (Kosan)				0.1	0.9	***	0.2	***	0.2
	Imsil		0.5	***	0.2	2.0	***	0.3	0.2	0.1
Russia	Mondy	N.D.	N.D.	N.D.	0.1	0.1	N.D.	N.D.	N.D.	N.D.
	Listvyanka	0.3	0.2	0.4	0.3	0.2	N.D.	0.2	N.D.	0.1
	Irkutsk	0.3	0.4	0.3	0.4	0.1	0.2	0.1	0.2	0.2
	Primorskaya		0.2	0.5	0.5	0.3	0.1	0.2	0.2	0.2
Thailand	Bangkok				0.7	0.9	1.5	1.5	0.7	0.8
	Samutprakarn									
	Patumthani				0.5	0.8	0.6	0.4	1.2	0.4
	Khanchanaburi			0.7	***	0.5	0.1	0.3	0.2	0.3
	Chiang Mai (Mae Hia)		0.2	0.3	0.2	0.4	0.4	0.5	0.2	0.2
	Nakhon Ratchasima							1.1	0.3	0.2
Viet Nam	Hanoi	0.8	0.5	4.1	2.2	2.2	2.9	2.5	2.5	1.8
	Hoa Binh	0.1	0.2	4.4	3.3	1.5	2.3	1.5	2.1	1.8

[***]: No data or not measured

Black column: Monitoring was not carried out

Table 4.24 Annual NH₃ concentration

unit: ppb

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008
China	Jinyunshan									
	Weishuiyuan									
	Hongwen								7.9	8.1
	Xiang Zhou									
Indonesia	Jakarta									
	Serpong		4.6	5.1	12.9	10.2	11.2	6.2	8.5	6.3
	Kototabang									
	Bandung									
Japan	Rishiri			0.4	0.4	0.4	0.4	0.4	0.4	0.4
	Ochiishi									0.6
	Tappi				0.6	0.5	0.3	0.3	0.4	0.5
	Sado-seki				0.6	0.7	0.6	0.6	0.6	0.7
	Happo				0.5	0.3	0.6	0.4	0.3	0.4
	Ijira				1.2	1.2	1.1	1.3	1.2	1.1
	Oki			1.1	0.6	0.8	0.8	0.7	0.8	1.0
	Banryu				1.1	1.3	1.2	1.1	1.0	1.0
	Yusuhara				0.7	0.5	0.4	0.4	0.5	0.5
	Hedo				0.8	0.9	0.8	0.9	1.0	1.2
	Ogasawara				0.2	0.5	0.9	0.5	0.5	0.5
	Tokyo								6.1	5.2
Malaysia	Tanah Rata	0.5	0.2	0.6	0.3	0.7	1.3	1.2	0.9	1.0
	Petaling Jaya		10.1	***	***	3.5	10.4	16.9	7.5	6.1
	Danum Valley							1.2	0.9	0.9
Mongolia	Ulaanbaatar	8.4	7.3	9.8	11.3	9.2	9.2	10.3	10.4	10.7
	Terelj	1.0	0.7	1.5	1.7	1.3	1.4	1.6	1.3	1.2
Philippines	Metro Manila	N.D.	7.1	10.0	9.3	9.1	12.5	3.8	6.6	9.2
	Los Banos	N.D.	4.2	6.2	5.0	4.1	4.5	2.0	2.7	3.1
	Mt. Sto. Tomas							0.2	0.9	6.4
Republic of Korea	Kanghwa				14.1	13.7	***	4.8	9.7	3.4
	Cheju (Kosan)				1.4	1.1	***	***	***	3.7
	Imsil		4.9	***	4.6	6.0	***	5.9	5.0	5.0
Russia	Mondy	0.6	0.2	0.7	0.7	0.5	0.8	1.9	0.8	0.7
	Listvyanka	1.1	0.2	0.8	1.7	1.6	0.8	4.4	2.5	2.7
	Irkutsk	1.8	0.5	1.3	2.2	4.4	1.8	3.7	3.8	3.3
	Primorskaya			12.0	10.8	7.8	1.2	2.7	3.6	2.9
Thailand	Bangkok				5.8	11.1	7.8	10.1	10.2	8.2
	Samutprakarn									
	Patumthani				6.5	8.5	6.3	2.8	9.2	3.1
	Khanchanaburi			6.5	***	6.2	1.9	2.1	3.2	2.3
	Chiang Mai (Mae Hia)		6.5	3.9	6.9	5.5	3.0	3.2	4.7	3.8
	Nakhon Ratchasima							7.0	2.4	2.6
Viet Nam	Hanoi	9.6	5.8	4.1	5.4	13.9	4.0	2.8	4.1	5.0
	Hoa Binh	6.8	2.7	2.8	7.5	8.9	3.8	2.7	2.3	4.0

[***]: No data or not measured

Black column: Monitoring was not carried out

Table 4.25 Annual NO concentration

unit: ppb

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008
China	Ji Yunshan						1.0	2.6	1.5	6.7
	Weishuiyuan						5.1	9.8		
	Hongwen									
	Xiang Zhou									
Indonesia	Jakarta									
	Serpong									
	Kototabang									
	Bandung									
Japan	Rishiri	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Ochiishi									N.D.
	Tappi	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
	Sado-seki	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Happo	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Ijira	0.1	0.3	0.5	0.4	0.4	0.3	0.3	0.3	0.2
	Oki	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Banryu	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
	Yusuhara	0.2	0.1	N.D.	0.1	0.2	0.3	0.1	N.D.	0.2
	Hedo	N.D.	0.1	0.2	N.D.	N.D.	0.2	N.D.	N.D.	0.1
	Ogasawara	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Tokyo									
Malaysia	Tanah Rata								10.1	***
	Petaling Jaya									
	Danum Valley									
Mongolia	Ulaanbaatar									
	Terelj									
Philippines	Metro Manila									
	Los Banos									
	Mt. Sto. Tomas									
Republic of Korea	Kanghwa									
	Cheju (Kosan)									
	Imsil									
Russia	Mondy									
	Listvyanka									
	Irkutsk									
	Primorskaya									
Thailand	Bangkok		25.0	21.6	***	15.3	11.2	11.1	11.5	13.6
	Samutprakarn	23.0	18.9	18.0	14.5	15.5	14.4	16.4	16.7	15.3
	Patumthani									
	Khanchanaburi	N.D.	1.2	0.3	***	1.0	1.0	0.6	1.8	0.7
	Chiang Mai (Mae Hia)				7.1	3.0	2.9	2.5	3.1	2.0
	Nakhon Ratchasima									5.9
Viet Nam	Hanoi									
	Hoa Binh									

[***]: No data or not measured

Black column: Monitoring was not carried out

Table 4.26 Annual NO₂ concentration

unit: ppb

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008
China	Jinyunshan									
	Weishuiyuan									
	Hongwen		11.3	12.6	13.6	13.8	16.4	23.8	22.9	19.9
	Xiang Zhou		18.6	24.2	22.1	21.0	18.8	20.7	19.5	21.1
Indonesia	Jakarta								4.2	32.8
	Serpong	6.3								
	Kototabang								0.7	1.9
	Bandung									11.3
Japan	Rishiri									
	Ochiishi									
	Tappi									
	Sado-seki									
	Happo									
	Ijira									
	Oki									
	Banryu	3.8	3.9	3.7	3.8	3.5	3.4	2.5	3.3	3.4
	Yusuhara									
	Hedo									
Malaysia	Ogasawara									
	Tokyo									
	Tanah Rata									
Philippines	Petaling Jaya		26.6	29.4	30.9					
	Danum Valley									
Mongolia	Ulaanbaatar									
Philippines	Terelj									
	Metro Manila									
Republic of Korea	Los Banos									
	Mt. Sto. Tomas									
	Kanghwa								5.3	6.9
Republic of Korea	Cheju (Kosan)								4.3	2.9
	Imsil								4.2	4.1
Russia	Mondy									
	Listvyanka									
	Irkutsk									
	Primorskaya									
Thailand	Bangkok	***	25.3	28.5	***	23.8	21.5	23.6	16.4	20.5
	Samutprakarn	18.4	21.0	15.2	17.6	13.8	16.9	19.3	19.5	16.4
	Patumthani									
	Khanchanaburi									
	Chiang Mai (Mae Hia)									
	Nakhon Ratchasima									
Viet Nam	Hanoi									
	Hoa Binh									

[***]: No data or not measured

Black column: Monitoring was not carried out

Table 4.27 Annual NOx concentration

unit: ppb

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008
China	Jinyunshan (NOx*)						7.2	8.7	8.1	11.8
	Weishuiyuan (NOx*)						14.7	26.8		
	Hongwen									
	Xiang Zhou									
Indonesia	Jakarta									
	Serpong									
	Kototabang									
	Bandung									
Japan	Rishiri (NOx*)	0.7	0.7	0.8	1.0	0.9	0.9	1.0	1.0	1.0
	Ochiishi (NOx*)									1.0
	Tappi (NOx*)	0.9	1.2	1.3	1.4	1.5	1.4	1.2	1.3	1.6
	Sado-seki (NOx*)	0.9	1.2	1.6	1.9	1.7	1.3	1.3	1.2	1.1
	Happo (NOx*)	1.9	1.7	2.3	2.2	2.1	2.2	1.9	2.3	2.1
	Ijira (NOx*)	2.1	3.4	3.2	2.9	3.6	3.5	3.1	3.2	2.2
	Oki (NOx*)	1.2	1.3	1.6	1.3	1.5	1.6	1.5	1.5	1.5
	Banryu	3.9	4.3	4.0	4.3	3.7	4.0	2.8	3.5	3.6
	Yusuhara (NOx*)	1.9	1.8	1.7	1.7	1.4	1.8	1.5	1.3	1.5
	Hedo (NOx*)	0.6	0.9	0.9	0.8	0.9	0.7	0.8	0.5	0.7
	Ogasawara (NOx*)	0.3	0.7	0.5	0.5	0.4	0.6	0.5	0.5	0.5
Tokyo										
Malaysia	Tanah Rata (NOx*)								12.2	***
	Petaling Jaya									
	Danum Valley									
Mongolia	Ulaanbaatar									
	Terelj									
Philippines	Metro Manila									
	Los Banos									
	Mt. Sto. Tomas									
Republic of Korea	Kanghwa									
	Cheju (Kosan)									
	Imsil									
Russia	Mondy									
	Listvyanka									
	Irkutsk									
	Primorskaya									
Thailand	Bangkok		50.7	50.3	43.7	37.9	32.7	34.6	28.1	34.4
	Samutprakarn	40.4	38.9	32.7	***	29.0	30.7	35.6	36.2	31.5
	Patumthani									
	Khanchanaburi	2.5	2.2	4.2	***	3.4	5.5	2.8	3.0	1.2
	Chiang Mai (Mae Hia) (NOx*)					14.0	8.8	10.4	12.6	10.4
	Nakhon Ratchasima (NOx*)									16.9
Viet Nam	Hanoi									
	Hoa Binh									

[***]: No data or not measured

Black column: Monitoring was not carried out

Table 4.28 Annual O₃ concentration

unit: ppb

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008
China	Jinyunshan									
	Weishuiyuan									
	Hongwen									
	Xiang Zhou									
Indonesia	Jakarta									
	Serpong									
	Kototabang									
	Bandung									
Japan	Rishiri	39	39	41	43	43	42	43	46	42
	Ochiishi									38
	Tappi	47	46	46	45	47	51	51	54	39
	Sado-seki	44	41	43	49	49	48	48	48	47
	Happo	53	54	55	56	56	58	59	63	50
	Ijira	30	30	24	30	27	23	17	35	20
	Oki	45	44	40	39	45	45	44	45	45
	Banryu	36	36	37	36	37	37	34	34	35
	Yusuhara	39	29	29	33	39	43	42	40	40
	Hedo	41	41	42	39	32	35	40	38	39
	Ogasawara	22	27	29	30	30	33	31	32	28
Malaysia	Tanah Rata								15	***
	Petaling Jaya									
	Danum Valley									
Mongolia	Ulaanbaatar									
	Terelj									
Philippines	Metro Manila									
	Los Banos									
	Mt. Sto. Tomas									
Republic of Korea	Kanghwa			42	43	40	41	27	43	41
	Cheju (Kosan)			41	28	38	40	35	38	42
	Imsil			31	22	24	30	30	30	20
Russia	Mondy			44	42	45	42	45	39	35
	Listvyanka									
	Irkutsk									
	Primorskaya									
Thailand	Bangkok									10
	Samutprakarn		4	12	17	13	14	14	14	18
	Patumthani									
	Khanchanaburi	20	10	14	***	15	17	10	7	16
	Chiang Mai (Mae Hia)				13	22	20	19	23	22
	Nakhon Ratchasima									22
Viet Nam	Hanoi									
	Hoa Binh									

[***]: No data or not measured

Black column: Monitoring was not carried out

Table 4.29 Annual PM₁₀ concentration

unit: $\mu\text{g}/\text{m}^3$

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008
China	Jinyunshan		96	73	70	64	60	78	65	50
	Weishuiyuan		123	138	112	128	118	121		
	Hongwen		61	62	68	64	66	97	71	59
	Xiang Zhou		51	48	56	48	40	47	50	51
Indonesia	Jakarta									
	Serpong									
	Kototabang									
	Bandung									
Japan	Rishiri	16	18	18	16	17	14	15	14	16
	Ochiishi									30
	Tappi	64	19	26	16	20	19	18	17	22
	Sado-seki	24	25	27	22	28	24	24	22	23
	Happo	13	14	12	10	15	15	13	12	14
	Ijira	24	22	24	20	21	21	22	22	20
	Oki	26	29	31	23	27	28	30	29	26
	Banryu	29	31	35	25	29	29	31	31	27
	Yusuhara	15	22	22	18	20	20	20	19	18
	Hedo		46	48	26	34	35	37	29	27
	Ogasawara	11	12	13	11	13	12	13	13	10
	Tokyo									
Malaysia	Tanah Rata									
	Petaling Jaya	37	***	39	41					
	Danum Valley									
Mongolia	Ulaanbaatar									
	Terelj									
Philippines	Metro Manila									
	Los Banos									
	Mt. Sto. Tomas									
Republic of Korea	Kanghwa			53	56	54	58	46	52	48
	Cheju (Kosan)			43	41	36	39	51	54	50
	Imsil			57	42	44	54	57	43	59
Russia	Mondy									
	Listvyanka									
	Irkutsk									
	Primorskaya									
Thailand	Bangkok	56	49	***	***	51	42	44	45	43
	Samutprakarn									45
	Patumthani									
	Khanchanaburi	38	21	79	***	41	60	37	31	37
	Chiang Mai (Mae Hia)				48	59	52	41	52	38
Nakhon Ratchasima									47	
Viet Nam	Hanoi									
	Hoa Binh									

[***]: No data or not measured

Black column: Monitoring was not carried out

Table 4.30 Annual PM_{2.5} concentration

unit: $\mu\text{g}/\text{m}^3$

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008
China	Jiayunshan									
	Weishuiyuan									
	Hongwen									
	Xiang Zhou									
Indonesia	Jakarta									
	Serpong									
	Kototabang									
	Bandung									
Japan	Rishiri		9	8	10	8	8	8	8	9
	Ochiishi									16
	Tappi									
	Sado-seki									
	Happo									
	Ijira									
	Oki		12	14	12	13	15	15	15	14
	Banryu									
	Yusuhara									
	Hedo									
	Ogasawara									
Tokyo										
Malaysia	Tanah Rata									
	Petaling Jaya									
	Danum Valley									
Mongolia	Ulaanbaatar									
	Terelj									
Philippines	Metro Manila									
	Los Banos									
	Mt. Sto. Tomas									
Republic of Korea	Kanghwa									
	Cheju (Kosan)									
	Imsil									
Russia	Mondy									
	Listvyanka									
	Irkutsk									
	Primorskaya									
Thailand	Bangkok									
	Samutprakarn									
	Patumthani									
	Khanchanaburi									
	Chiang Mai (Mae Hia)									
Nakhon Ratchasima										
Viet Nam	Hanoi									
	Hoa Binh									

[***]: No data or not measured

Black column: Monitoring was not carried out

Table 4.31 Annual SO₄²⁻ in PM concentration

unit: µg/m³

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008
China	Jinyunshan									
	Weishuiyuan									
	Hongwen								10.58	13.38
	Xiang Zhou									
Indonesia	Jakarta									
	Serpong		1.81	1.49	0.53	0.82	1.50	0.56	0.50	0.71
	Kototabang									
	Bandung									
Japan	Rishiri			1.76	2.55	2.40	2.61	2.39	2.44	2.94
	Ochiishi									2.73
	Tappi				3.32	3.89	3.92	4.10	4.02	4.67
	Sado-seki				3.11	3.55	4.08	3.07	3.64	4.17
	Happo				2.11	2.30	2.59	2.79	2.58	2.52
	Ijira				3.72	4.10	5.07	4.89	4.76	4.78
	Oki			4.38	3.91	3.94	6.29	5.73	5.21	4.54
	Banryu				3.82	4.43	6.33	6.55	6.41	5.11
	Yusuhara				4.09	5.16	6.15	5.81	6.44	4.54
	Hedo				4.01	3.40	5.32	6.51	5.95	5.69
	Ogasawara				1.26	1.36	0.87	1.65	3.91	2.72
	Tokyo								5.36	5.15
Malaysia	Tanah Rata	1.23	0.67	0.46	0.50	0.81	1.07	1.38	1.37	1.59
	Petaling Jaya		3.61	3.89	3.36	1.42	2.26	2.60	3.00	3.32
	Danum Valley							0.69	0.76	1.12
Mongolia	Ulaanbaatar	2.14	2.54	1.76	3.59	3.63	5.10	5.68	4.20	1.33
	Terelj	1.12	1.54	0.74	0.78	1.24	0.85	1.40	1.41	1.42
Philippines	Metro Manila	2.00	1.87	2.26	3.74	3.19	3.31	2.63	3.15	2.37
	Los Banos	0.50	0.85	1.54	2.59	1.64	1.71	1.52	2.29	1.86
	Mt. Sto. Tomas							0.14	0.22	0.91
Republic of Korea	Kanghwa		4.86	6.95	5.65	4.26	6.56	3.43	2.35	8.44
	Cheju (Kosan)		2.68	6.74	6.99	8.90	7.11	8.05	6.75	14.92
	Imsil		2.06	5.12	8.23	10.12	9.29	10.31	5.90	11.32
Russia	Mondy	0.52	0.75	0.49	0.99	0.66	0.34	0.49	0.22	0.38
	Listvyanka	1.42	2.47	1.70	2.75	1.79	0.79	1.16	1.57	1.02
	Irkutsk	2.35	3.83	3.89	2.51	1.70	2.67	2.13	2.91	2.55
	Primorskaya		3.87	2.12	2.59	3.32	3.77	4.11	4.89	3.59
Thailand	Bangkok				3.63	4.02	2.13	4.71	2.97	2.65
	Samutprakarn									
	Patumthani				2.34	3.46	1.39	3.64	4.69	1.41
	Khanchanaburi			N.D.	***	5.59	0.15	2.74	3.24	2.54
	Chiang Mai (Mae Hia)		0.88	2.04	2.11	3.93	1.11	2.22	2.60	1.75
Nakhon Ratchasima							3.14	4.80	3.78	
Viet Nam	Hanoi	1.05	1.41	8.65	16.19	19.30	20.33	16.46	20.35	9.53
	Hoa Binh	2.25	2.57	4.16	2.34	2.13	12.41	7.80	8.38	4.51

[***]: No data or not measured

Black column: Monitoring was not carried out

Table 4.32 Annual NO₃⁻ in PM concentration

unit: µg/m³

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008
China	Jinyunshan									
	Weishuiyuan									
	Hongwen								5.81	8.10
	Xiang Zhou									
Indonesia	Jakarta									
	Serpong		0.69	1.37	0.61	0.81	1.55	0.37	0.17	0.18
	Kototabang									
	Bandung									
Japan	Rishiri			0.34	0.59	0.66	0.53	0.58	0.60	0.76
	Ochiishi									0.71
	Tappi				1.24	1.13	0.92	1.17	1.18	1.23
	Sado-seki				0.77	0.89	0.68	0.80	0.96	1.07
	Happo				0.27	0.36	0.27	0.25	0.20	0.22
	Ijira				0.41	0.49	0.48	0.54	0.49	0.39
	Oki			0.87	0.71	1.03	1.26	1.28	1.34	1.22
	Banryu				0.69	1.09	1.43	1.54	1.57	1.35
	Yusuhara				0.30	0.59	0.59	0.59	0.55	0.29
	Hedo				1.50	1.16	1.11	1.65	1.48	1.52
	Ogasawara				0.32	0.29	0.12	0.36	0.74	0.57
	Tokyo								3.86	4.03
Malaysia	Tanah Rata	0.19	0.03	0.12	0.11	0.18	0.18	0.18	0.13	0.16
	Petaling Jaya		0.59	0.24	0.10	0.56	0.97	0.81	1.18	1.17
	Danum Valley							0.05	0.04	0.06
Mongolia	Ulaanbaatar	0.85	1.37	1.02	1.71	1.53	1.61	1.74	1.66	0.90
	Terelj	0.23	0.17	0.20	0.16	0.15	0.18	0.19	0.71	0.65
Philippines	Metro Manila	0.66	1.07	0.92	2.26	1.77	1.11	1.03	1.27	0.99
	Los Banos	0.18	0.76	0.46	1.18	0.64	0.42	0.29	0.39	0.27
	Mt. Sto. Tomas							0.02	0.07	1.15
Republic of Korea	Kanghwa		0.50	2.31	4.19	1.12	1.85	2.03	1.03	1.92
	Cheju (Kosan)		0.09	0.32	0.53	1.44	0.27	0.39	0.57	0.34
	Imsil		0.35	0.59	0.51	1.23	1.56	3.99	3.05	2.86
Russia	Mondy	0.03	0.12	0.14	0.11	0.02	0.02	0.06	0.01	0.13
	Listvyanka	0.55	0.44	0.18	0.68	0.19	0.17	0.19	0.19	0.20
	Irkutsk	0.78	1.24	1.52	0.96	0.53	0.68	0.69	0.61	0.89
	Primorskaya		1.83	0.31	0.39	0.57	1.24	1.18	1.04	1.03
Thailand	Bangkok				1.51	2.07	2.83	1.60	1.51	1.44
	Samutprakarn									
	Patumthani				0.63	1.11	1.13	0.52	2.02	0.77
	Khanchanaburi			N.D.	***	0.58	0.06	0.09	0.10	0.15
	Chiang Mai (Mae Hia)		0.65	0.19	0.28	0.64	0.33	0.67	0.62	0.36
Nakhon Ratchasima							0.81	0.48	0.41	
Viet Nam	Hanoi	0.26	0.30	1.88	5.33	8.74	10.52	5.34	6.21	2.89
	Hoa Binh	0.52	0.38	0.86	0.54	0.69	1.71	1.09	1.46	1.24

[***]: No data or not measured

Black column: Monitoring was not carried out

Table 4.33 Annual CI in PM concentration

 unit: $\mu\text{g}/\text{m}^3$

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008
China	Jiayunshan									
	Weishuiyuan									
	Hongwen								2.07	1.85
	Xiang Zhou									
Indonesia	Jakarta									
	Serpong		0.13	1.55	1.24	0.79	1.07	0.21	0.46	0.10
	Kototabang									
	Bandung									
Japan	Rishiri			2.37	2.04	2.73	2.35	2.03	2.25	2.20
	Ochiishi									4.44
	Tappi				3.38	7.64	6.02	8.08	3.30	8.26
	Sado-seki				3.08	3.88	3.08	3.56	0.02	4.61
	Happo				0.02	0.03	0.02	0.03	0.05	0.01
	Ijira				0.05	0.05	0.04	0.05	2.36	0.04
	Oki			1.40	1.30	2.12	2.55	2.42	0.97	2.71
	Banryu				0.41	1.31	1.43	1.47	0.04	1.13
	Yusuhara				0.03	0.07	0.07	0.08	5.79	0.03
	Hedo				6.12	4.60	7.29	6.35	3.82	4.40
	Ogasawara				2.86	1.66	0.94	2.69	0.62	3.04
	Tokyo								N.D.	0.63
Malaysia	Tanah Rata	0.06	N.D.	0.05	0.08	0.03	0.03	0.04	0.03	0.02
	Petaling Jaya		0.05	0.02	0.02	0.10	0.18	0.10	0.13	0.09
	Danum Valley							0.04	0.02	0.04
Mongolia	Ulaanbaatar	0.55	0.73	0.37	0.82	1.02	1.06	1.25	0.87	0.47
	Terelj	0.06	0.20	0.09	0.20	0.18	0.30	0.19	0.36	0.24
Philippines	Metro Manila	2.61	0.49	0.45	0.86	0.77	0.39	0.62	0.62	0.59
	Los Banos	1.06	0.93	0.89	1.09	0.65	0.58	0.67	1.15	0.82
	Mt. Sto. Tomas							0.03	0.07	0.35
Republic of Korea	Kanghwa		0.33	0.34	0.24	0.16	0.18	0.15	0.19	0.07
	Cheju (Kosan)		0.28	0.34	0.41	0.53	0.14	0.13	0.30	0.12
	Imsil		0.33	0.32	0.31	0.14	0.12	0.29	0.38	0.18
Russia	Mondy	0.03	0.08	N.D.	0.12	0.02	N.D.	0.03	0.01	N.D.
	Listvyanka	0.37	0.80	0.31	0.13	0.26	0.03	0.08	0.12	0.11
	Irkutsk	0.12	0.44	0.42	0.24	0.15	0.12	0.19	0.30	0.32
	Primorskaya		0.53	0.20	0.25	0.18	0.21	0.12	0.19	0.17
Thailand	Bangkok				0.22	1.06	0.59	0.19	0.29	0.18
	Samutprakarn									
	Patumthani				0.07	0.11	0.31	0.09	0.39	0.07
	Khanchanaburi			N.D.	***	0.06	0.02	0.08	0.02	0.06
	Chiang Mai (Mae Hia)		0.09	0.12	0.03	0.30	0.08	0.29	0.11	0.05
Nakhon Ratchasima							0.09	0.06	0.06	
Viet Nam	Hanoi	0.39	1.49	1.78	1.22	1.67	3.10	2.90	2.81	0.79
	Hoa Binh	0.31	0.14	1.75	1.17	0.94	1.41	0.65	0.58	0.64

[***]: No data or not measured

Black column: Monitoring was not carried out

Table 4.34 Annual NH₄⁺ in PM concentration

unit: µg/m³

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008
China	Jiayunshan									
	Weishuiyuan									
	Hongwen								3.66	5.55
	Xiang Zhou									
Indonesia	Jakarta									
	Serpong		0.40	0.61	0.09	0.18	0.25	0.08	0.24	0.08
	Kototabang									
	Bandung									
Japan	Rishiri			0.34	0.48	0.35	0.44	0.41	0.39	0.53
	Ochiishi									0.40
	Tappi				0.60	0.67	0.57	0.63	0.64	0.77
	Sado-seki				0.45	0.49	0.83	0.48	0.54	0.68
	Happo				0.58	0.57	0.69	0.64	0.65	0.66
	Ijira				1.24	1.17	1.45	1.39	1.32	1.36
	Oki			0.83	0.60	0.68	1.27	1.19	1.07	0.97
	Banryu				0.62	0.97	1.43	1.51	1.60	1.32
	Yusuhara				0.88	1.15	1.40	1.41	1.53	1.12
	Hedo				0.56	0.46	0.67	0.80	0.88	0.98
	Ogasawara				0.10	0.15	0.08	0.17	0.46	0.24
	Tokyo								1.82	1.96
Malaysia	Tanah Rata	0.34	0.32	0.26	0.13	0.23	0.23	0.40	0.32	0.35
	Petaling Jaya		0.88	1.30	1.01	0.30	0.59	0.76	0.76	0.82
	Danum Valley							0.10	0.08	0.12
Mongolia	Ulaanbaatar	0.39	0.41	0.46	0.67	0.92	1.60	1.95	1.96	0.23
	Terelj	0.28	0.42	0.27	0.29	0.33	0.28	0.43	0.40	0.37
Philippines	Metro Manila	N.D.	0.31	0.93	1.09	0.48	0.73	0.25	0.43	0.42
	Los Banos	N.D.	0.39	0.34	0.70	0.21	0.67	0.23	0.28	0.34
	Mt. Sto. Tomas							0.03	0.09	0.33
Republic of Korea	Kanghwa		1.96	2.58	2.69	1.59	2.23	1.38	0.85	1.05
	Cheju (Kosan)		0.67	2.00	2.44	2.98	2.05	2.39	2.15	1.26
	Imsil		0.53	1.41	2.59	2.85	2.66	3.67	2.37	1.43
Russia	Mondy	0.13	0.24	0.21	0.36	0.17	0.12	0.09	0.02	0.09
	Listvyanka	0.75	1.16	0.77	0.92	0.63	0.37	0.27	0.33	0.21
	Irkutsk	1.02	1.62	1.49	0.76	0.59	0.69	0.46	0.93	0.80
	Primorskaya		1.20	1.13	0.78	0.74	1.10	1.32	1.43	0.94
Thailand	Bangkok				1.08	0.71	0.42	1.30	1.29	1.15
	Samutprakarn									
	Patumthani				0.46	0.73	0.38	1.13	1.37	0.71
	Khanchanaburi			N.D.	***	1.41	0.04	0.65	0.91	1.10
	Chiang Mai (Mae Hia)		0.61	0.26	1.23	0.72	0.59	0.67	0.74	0.49
Nakhon Ratchasima							0.86	1.37	1.13	
Viet Nam	Hanoi	1.02	1.52	2.14	3.86	4.97	7.30	3.18	3.99	2.20
	Hoa Binh	0.78	0.85	2.12	6.25	1.46	4.27	2.29	2.24	0.84

[***]: No data or not measured

Black column: Monitoring was not carried out

Table 4.35 Annual Na⁺ in PM concentration

unit: µg/m³

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008
China	Jinyunshan									
	Weishuiyuan									
	Hongwen								1.39	1.40
	Xiang Zhou									
Indonesia	Jakarta									
	Serpong		0.42	0.96	0.47	0.63	0.22	0.32	0.11	0.06
	Kototabang									
	Bandung									
Japan	Rishiri			1.68	1.65	2.02	1.76	1.62	1.78	1.82
	Ochiishi									3.09
	Tappi				2.99	4.99	4.18	5.23	4.30	5.31
	Sado-seki				2.39	2.92	2.22	2.52	2.53	3.32
	Happo				0.09	0.14	0.08	0.08	0.08	0.10
	Ijira				0.26	0.27	0.27	0.26	0.29	0.25
	Oki			2.32	2.00	1.59	2.38	2.26	2.21	2.26
	Banryu				1.18	1.42	1.61	1.68	1.33	1.32
	Yusuhara				0.34	0.44	0.43	0.45	0.43	0.26
	Hedo				4.85	3.18	5.22	4.85	4.54	3.77
	Ogasawara				1.86	1.24	0.68	1.78	2.95	2.38
	Tokyo								0.99	0.80
Malaysia	Tanah Rata	0.11	0.11	0.14	0.09	0.08	0.09	0.13	0.14	0.13
	Petaling Jaya		0.25	0.25	0.17	0.24	0.18	0.21	0.32	0.34
	Danum Valley							0.13	0.13	0.16
Mongolia	Ulaanbaatar	0.29	0.32	0.19	0.60	0.49	0.47	0.38	0.32	0.09
	Terelj	0.07	0.10	0.09	0.09	0.17	0.14	0.11	0.12	0.08
Philippines	Metro Manila	1.26	1.11	0.33	0.92	0.89	0.62	0.61	0.79	0.97
	Los Banos	0.60	1.39	0.84	0.72	0.64	0.65	0.70	0.98	0.67
	Mt. Sto. Tomas							0.05	0.05	0.38
Republic of Korea	Kanghwa		0.29	0.61	0.33	0.19	0.33	0.25	0.26	0.43
	Cheju (Kosan)		0.09	0.37	0.52	0.72	0.35	0.40	0.39	0.53
	Imsil		0.32	0.35	0.52	0.52	0.44	0.39	0.42	0.58
Russia	Mondy	0.03	0.02	N.D.	0.04	0.04	0.02	0.04	N.D.	0.02
	Listvyanka	0.02	0.17	0.05	0.18	0.20	0.05	0.06	0.07	0.12
	Irkutsk	0.14	0.07	0.13	0.19	0.13	0.21	0.17	0.12	0.23
	Primorskaya		0.28	0.18	0.21	0.26	0.22	0.22	0.25	0.26
Thailand	Bangkok				0.46	1.53	0.48	0.68	0.38	0.33
	Samutprakarn									
	Patumthani				0.23	0.54	0.27	0.17	0.40	0.27
	Khanchanaburi			N.D.	***	0.38	0.01	0.17	0.12	0.17
	Chiang Mai (Mae Hia)		0.13	0.10	0.12	0.33	0.08	0.21	0.23	0.15
Nakhon Ratchasima							0.34	0.28	0.24	
Viet Nam	Hanoi	0.61	0.45	0.54	0.57	1.21	1.95	1.99	1.64	0.56
	Hoa Binh	0.27	0.16	0.55	0.12	0.61	0.92	0.52	0.25	0.24

[***]: No data or not measured

Black column: Monitoring was not carried out

Table 4.36 Annual K⁺ in PM concentration

unit: $\mu\text{g}/\text{m}^3$

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008
China	Jiayunshan									
	Weishuiyuan									
	Hongwen								0.57	0.62
	Xiang Zhou									
Indonesia	Jakarta									
	Serpong		0.42	0.46	0.28	0.15	0.25	0.11	0.05	0.07
	Kototabang									
	Bandung									
Japan	Rishiri			0.06	0.13	0.14	0.13	0.15	0.13	0.16
	Ochiishi									0.16
	Tappi				0.19	0.27	0.21	0.28	0.25	0.26
	Sado-seki				0.11	0.17	0.14	0.15	0.16	0.19
	Happo				0.05	0.06	0.06	0.06	0.05	0.05
	Ijira				0.16	0.14	0.18	0.17	0.15	0.14
	Oki			0.19	0.19	0.22	0.26	0.23	0.21	0.18
	Banryu				0.18	0.19	0.21	0.25	0.21	0.19
	Yusuhara				0.11	0.18	0.21	0.21	0.18	0.11
	Hedo				0.23	0.19	0.29	0.32	0.31	0.27
	Ogasawara				0.10	0.07	0.03	0.08	0.16	0.16
	Tokyo								0.20	0.19
Malaysia	Tanah Rata	0.12	0.13	0.29	0.07	0.09	0.21	0.10	0.08	0.09
	Petaling Jaya		0.33	0.36	0.25	0.24	0.23	0.19	0.25	0.23
	Danum Valley							0.09	0.09	0.12
Mongolia	Ulaanbaatar	0.21	0.33	0.22	0.53	0.42	0.61	0.60	0.25	0.12
	Terelj	0.07	0.16	0.17	0.24	0.24	0.20	0.13	0.14	0.09
Philippines	Metro Manila	14.26	1.00	0.28	0.74	0.33	0.26	0.46	0.41	0.43
	Los Banos	0.44	1.00	0.25	0.26	0.17	0.22	0.22	0.28	0.17
	Mt. Sto. Tomas							0.03	0.06	0.39
Republic of Korea	Kanghwa		0.46	0.50	0.61	0.27	0.48	0.33	0.30	0.25
	Cheju (Kosan)		0.21	0.37	1.29	0.72	0.45	0.46	0.40	0.33
	Imsil		0.30	0.53	1.17	0.84	0.55	0.50	0.32	0.37
Russia	Mondy	0.10	N.D.	0.01	0.08	0.05	0.02	0.04	0.01	0.02
	Listvyanka	0.25	0.23	N.D.	0.23	0.15	0.09	0.05	0.06	0.09
	Irkutsk	0.47	0.21	0.11	0.21	0.09	0.18	0.10	0.11	0.21
	Primorskaya		0.52	0.25	0.38	0.35	0.28	0.37	0.44	0.37
Thailand	Bangkok				0.59	0.98	0.28	0.65	0.43	0.36
	Samutprakarn									
	Patumthani				0.49	0.61	0.47	0.25	1.82	0.26
	Khanchanaburi			N.D.	***	0.88	0.99	0.34	0.16	0.19
	Chiang Mai (Mae Hia)		0.48	0.53	0.37	0.54	0.29	0.86	0.58	0.37
Nakhon Ratchasima							0.48	0.37	0.34	
Viet Nam	Hanoi	0.13	0.24	0.78	0.82	1.90	2.61	1.70	2.04	1.00
	Hoa Binh	0.35	0.38	1.19	0.39	0.61	2.37	1.19	1.41	0.94

[***]: No data or not measured

Black column: Monitoring was not carried out

Table 4.37 Annual Mg²⁺ in PM concentration

unit: µg/m³

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008
China	Jiayunshan									
	Weishuiyuan									
	Hongwen								0.28	0.31
	Xiang Zhou									
Indonesia	Jakarta									
	Serpong		0.16	0.09	0.04	0.12	0.08	0.04	0.05	0.03
	Kototabang									
	Bandung									
Japan	Rishiri			0.20	0.20	0.24	0.21	0.20	0.22	0.24
	Ochiishi									0.44
	Tappi				0.39	0.61	0.49	0.63	0.52	0.56
	Sado-seki				0.30	0.36	0.31	0.28	0.31	0.39
	Happo				0.02	0.03	0.02	0.02	0.03	0.03
	Ijira				0.05	0.04	0.04	0.04	0.05	0.04
	Oki			0.21	0.23	0.27	0.31	0.30	0.29	0.28
	Banryu				0.15	0.19	0.23	0.26	0.22	0.17
	Yusuhara				0.07	0.08	0.08	0.09	0.09	0.05
	Hedo				0.61	0.38	0.67	0.60	0.58	0.47
	Ogasawara				0.25	0.14	0.08	0.22	0.37	0.33
	Tokyo								0.15	0.12
Malaysia	Tanah Rata	N.D.	0.03	N.D.	0.01	0.01	0.01	0.02	0.04	0.02
	Petaling Jaya		0.03	N.D.	0.02	0.03	0.03	0.03	0.09	0.05
	Danum Valley							0.01	0.04	0.05
Mongolia	Ulaanbaatar	0.15	0.30	0.14	0.40	0.33	0.35	0.26	0.19	0.11
	Terelj	N.D.	0.04	N.D.	0.04	0.06	0.06	0.06	0.02	0.02
Philippines	Metro Manila	2.69	0.07	0.04	0.15	0.10	0.11	0.24	0.14	0.17
	Los Banos	0.13	0.09	0.13	0.10	0.07	0.06	0.09	0.14	0.11
	Mt. Sto. Tomas							0.01	N.D.	0.07
Republic of Korea	Kanghwa		N.D.	N.D.	0.07	0.01	0.01	0.01	N.D.	0.01
	Cheju (Kosan)		N.D.	N.D.	0.05	0.04	0.01	0.02	0.09	0.02
	Imsil		N.D.	0.01	0.06	0.05	0.03	0.04	0.03	0.01
Russia	Mondy	N.D.	N.D.	N.D.	N.D.	0.01	N.D.	N.D.	N.D.	N.D.
	Listvyanka	0.07	0.04	N.D.	0.04	0.04	0.02	0.02	0.03	0.02
	Irkutsk	0.14	0.06	0.07	0.08	0.06	0.07	0.08	0.09	0.13
	Primorskaya		0.07	N.D.	0.03	0.19	0.08	0.07	0.07	0.08
Thailand	Bangkok				0.12	0.43	0.10	0.13	0.09	0.08
	Samutprakarn									
	Patumthani				0.05	0.80	0.05	0.05	0.08	0.06
	Khanchanaburi			N.D.	***	0.14	N.D.	0.04	0.04	0.10
	Chiang Mai (Mae Hia)		0.06	0.02	0.32	0.03	0.02	0.22	0.07	0.04
Nakhon Ratchasima							0.05	0.06	0.05	
Viet Nam	Hanoi	0.14	0.18	0.42	0.16	0.51	0.67	0.52	0.44	0.18
	Hoa Binh	0.13	0.06	0.21	0.04	0.66	0.49	0.13	0.15	0.09

[***]: No data or not measured

Black column: Monitoring was not carried out

Table 4.38 Annual Ca²⁺ in PM concentration

unit: µg/m³

Country	Name of sites	2000	2001	2002	2003	2004	2005	2006	2007	2008
China	Jinyunshan									
	Weishuiyuan									
	Hongwen								2.84	2.79
	Xiang Zhou									
Indonesia	Jakarta									
	Serpong		0.36	0.32	0.22	0.61	0.28	0.36	0.26	0.13
	Kototabang									
	Bandung									
Japan	Rishiri			0.07	0.13	0.16	0.14	0.13	0.14	0.17
	Ochiishi									0.15
	Tappi				0.22	0.38	0.27	0.35	0.30	0.30
	Sado-seki				0.16	0.31	0.22	0.23	0.25	0.29
	Happo				0.06	0.16	0.15	0.17	0.14	0.12
	Ijira				0.12	0.16	0.16	0.18	0.17	0.13
	Oki			0.24	0.19	0.28	0.33	0.29	0.28	0.22
	Banryu				0.17	0.22	0.27	0.31	0.30	0.22
	Yusuhara				0.16	0.27	0.25	0.27	0.28	0.14
	Hedo				0.32	0.36	0.37	0.48	0.43	0.34
	Ogasawara				0.11	0.10	0.04	0.13	0.22	0.16
	Tokyo								0.56	0.52
Malaysia	Tanah Rata	0.05	0.16	0.04	0.02	0.18	0.06	0.07	0.10	0.08
	Petaling Jaya		0.49	0.19	0.07	0.76	0.20	0.39	0.68	0.47
	Danum Valley							0.02	0.03	0.02
Mongolia	Ulaanbaatar	3.64	4.38	3.59	6.76	4.76	4.86	4.64	3.69	3.38
	Terelj	0.31	0.40	0.30	0.26	0.30	0.27	0.30	0.43	0.42
Philippines	Metro Manila	0.37	0.79	0.60	1.37	1.00	0.75	1.09	1.18	0.87
	Los Banos	1.03	0.57	1.80	0.69	0.38	0.14	0.13	0.23	0.27
	Mt. Sto. Tomas							0.02	0.07	0.77
Republic of Korea	Kanghwa		0.25	0.21	0.34	0.09	0.10	0.04	0.05	0.07
	Cheju (Kosan)		0.01	0.16	0.25	0.20	0.08	0.05	0.09	0.11
	Imsil		0.09	0.33	0.42	0.13	0.11	0.12	0.28	0.11
Russia	Mondy	0.10	0.06	N.D.	0.08	0.08	0.03	0.07	0.03	0.05
	Listvyanka	0.46	0.30	0.15	0.26	0.19	0.07	0.13	0.22	0.15
	Irkutsk	0.64	0.48	0.48	0.45	0.29	0.46	0.47	0.62	0.82
	Primorskaya		0.65	0.20	0.23	0.25	0.36	0.38	0.40	0.45
Thailand	Bangkok				1.17	1.03	1.20	1.39	1.07	0.80
	Samutprakarn									
	Patumthani				0.77	0.80	0.47	0.17	0.93	0.36
	Khanchanaburi			0.14	***	0.65	0.06	0.18	0.12	0.22
	Chiang Mai (Mae Hia)		0.47	0.41	1.17	0.42	0.29	0.61	0.57	0.44
Nakhon Ratchasima							0.65	0.23	0.28	
Viet Nam	Hanoi	2.01	2.26	3.22	4.43	7.58	8.47	8.97	7.59	2.83
	Hoa Binh	1.24	0.80	1.47	0.95	3.25	4.51	2.39	2.19	1.27

[***]: No data or not measured

Black column: Monitoring was not carried out

Table 4.39 Approximate conversion ratios from ppb to $\mu\text{g}/\text{m}^3$ (20°C, 1 atm)

Species	SO ₂	HNO ₃	HCl	NH ₃	NO	NO ₂	O ₃
Ratio	x 2.66	x 2.62	x 1.52	x 0.71	x 1.25	x 1.91	x 2.00

Table 4.40 Expedient detection limits for summarizing air concentration data

Species	Detection limits
SO ₂	0.1 ppb
HNO ₃	0.1 ppb
HCl	0.1 ppb
NH ₃	0.1 ppb
NO, NO ₂ , NO _x	0.1 ppb
O ₃	1 ppb
PM	1 $\mu\text{g}/\text{m}^3$
Particulate matter components	0.01 $\mu\text{g}/\text{m}^3$

CHAPTER 5

Soil and Vegetation Monitoring

5. Soil and Vegetation Monitoring

5.1 Method

The basic survey was principally carried out for the initial objectives (namely, establishment of baseline data and early detection of possible impact) in the participating countries in accordance with the Technical Manual on Soil and Vegetation Monitoring in East Asia. General items are described in the [Table 5.1](#) but actual implementation of item sets was dependent on respective site.

Table 5.1 Basic survey for soil and forest

Item	Parameters
Soil	<ul style="list-style-type: none">- pH(H₂O), pH(KCl), Exchangeable base cations (Na, K, Ca, and Mg), Exchangeable acidity, Effective cation exchange capacity (ECEC), Carbonate content (if pH > 7)- Exchangeable Al and H, Total C content, Total N content (optional)- Available P, Sulfate (voluntary)- Physical properties (Fine earth bulk density, and Penetration resistance)(optional)
Forest	<ul style="list-style-type: none">- General description of the forest (Description of trees, and Understory vegetation)- Observation of tree decline- Photographic record of tree decline, Estimation of decline causes (optional)

5.1.1 Field Operation

Basically, two forest areas, whose soils have different sensitivities to acid deposition, are recommended to be selected in an area. Several plots (at least two) of areas from 5m x 5m to 10m x 10m should be chosen randomly at each forest area (each soil type). Five subplots with 1m x 1m square of each are set up for soil sampling at the center and along the diagonal lines of the plot ([Figure 5.1](#)).

Three coaxial round plots are established for general description of trees with areas of 1000, 400 and 200 square meters respectively ([Figure 5.2](#)). Observation of tree decline is carried out basically for selected twenty dominant trees in four directions. The Sub-Manual on Forest Vegetation Monitoring, which was endorsed in 2006, recommended that the observation should be done at least once a year to detect possible effects of meteorological events. Decline symptoms of the observation trees were recorded according to the decline scale shown in [Table 5.2](#).

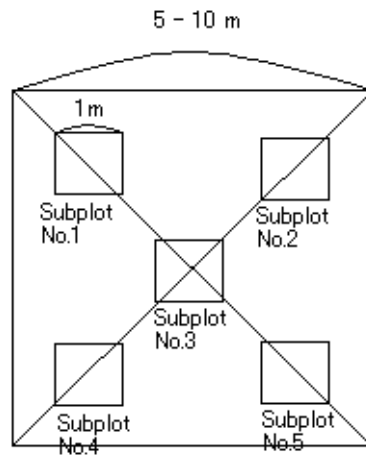


Figure 5.1 Plot for soil sampling

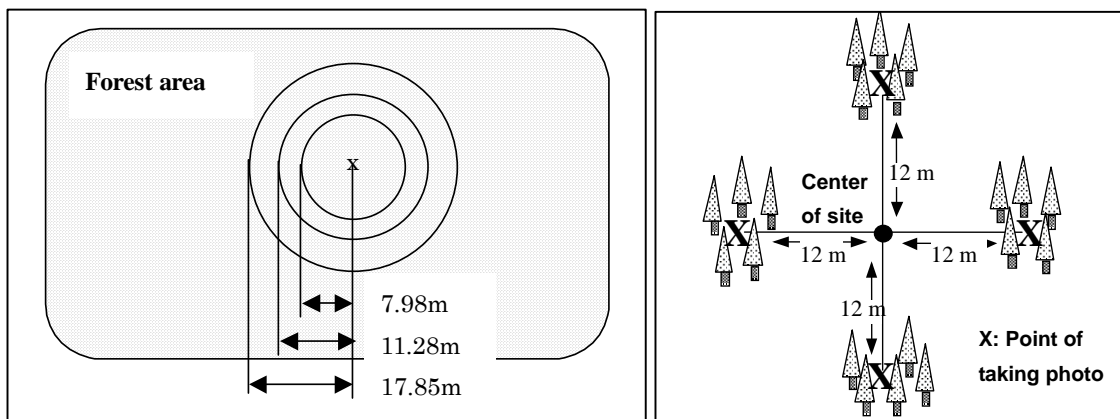


Figure 5.2 Plots for description of trees (Left) and selection of observation trees (Right)

Table 5.2 Observation items and decline scale

Items	Decline scale and observations
Vitality of tree	0. No damage, 1. Slightly damaged, 2. Evidently damaged, 3. Severely damaged, 4. Dead
Form of tree	0. Normal, 1. Some branches lacking, 2. Evidently wanting, 3. Severely wanting, 4. Dead or almost dead
Branch growth	0. Normal growth, 1. Somewhat reduced, 2. Short and slender, 3. Extremely short
Dieback of stem	0. Not found, 1. Slightly dieback, 2. Evidently dieback, 3. Severe dieback if found, 4. Completely dead
Defoliation of crown ^{*1}	0. Not defoliated (0–10%), 1. Slightly defoliated (>10–25%), 2. Moderately defoliated (>25–60%), 3. Severely defoliated (>60%), 4. Dead
Deformation of leaves	0. Normal, 1. Slightly deformed, 2. Evidently deformed, 3. Completely deformed
Size of leaves	0. Normal, 1. Somewhat small, 2. Evidently small, 3. Very small
Discoloration of leaves ^{*1}	0. None (0–10%), 1. Slight (>10–25%), 2. Moderate (>25–60%), 3. Severe (>60%)
Injury of leaves	0. No symptoms, 1. Slightly injured, 2. Evidently injured, 3. Severely injured

Note: ^{*1}. Definition of the scale was updated in the Sub-Manual on Forest Vegetation Monitoring (2006).

5.1.2 Laboratory Operation

Analytical methods recommended in the Manual are presented in [Table 5.3](#).

Table 5.3 Analytical equipment and methods for soil monitoring

Parameters	Equipment/methods
<i>Chemical Properties of Soil</i>	
a) Moisture Content	Drying oven, Balance
b) pH (H ₂ O) and pH (KCl)	Glass electrode
c) Exchangeable Base Cations (Ca, Mg, K and Na)	AAS, ICP-AES or ICP-MS (CH ₃ COONH ₄ -Extraction) Titration (KCl-Extraction)
d) Exchangeable Acidity	ibid.
e) Exchangeable Al, H	Calculation (as sum of exchangeable cations)
f) Effective Cation Exchange Capacity (ECEC)	Volumetric calcimeter
g) Carbonate Content (for calcareous soil)	Titration (Walkley-Black method) or CN-analyzer
h) Total Carbon Content	Titration (Kjeldahl method) or CN-analyzer
i) Total Nitrogen Content	Spectrophotometry (Bray-1 test)
j) Available Phosphate	Turbidimetry, IC, ICP-AES or ICP-MS
k) Sulfate	

<i>Physical Properties of Soil</i>	
a) Fine Earth Bulk Density b) Penetration Resistance (in the fieldwork)	Metal sampling cylinder, Drying oven, Balance Pocket penetrometer

5.1.3 Monitoring Sites

Forest data and soil data of 10 areas of 5 countries were submitted this year. The list of monitoring site and reported items for 2008 was shown in [Table 5.4](#). Observation of the tree decline was done annually in the most plots according to suggestion of the Sub-Manual on Forest Vegetation Monitoring (2006). The third and fifth surveys on soil monitoring were carried out in Los Banos and Vachiralongkorn Dam, respectively.

Table 5.4 Outline of the Monitoring Sites in 2008

Country	Nearest deposition monitoring site	Site: Name of forests	Soil type	Items ^{*1}
China	Jinyunshan (Chongqing)	Jinyunshan (2 plots for soil and forest)	(Acidi-Udic Argosols) ^{*2}	F ^{*3}
	Jiwozi (Xi'an)	Jiwozi (2 plots for soil; 1 plot for forest)	(Brown soil) ^{*2}	F ^{*3}
	Xiaoping (Xiamen)	Xiaoping (1 plot for soil and forest)	(Red soil) ^{*2}	F ^{*3}
	Zhuxiandong (Zhuhai)	Zhuxiandong (3 plots for soil and forest)	(Ochinic Udic Ferrosols) ^{*2}	F
Indonesia	Serpong	Research Forest Station of Center and Development of Forestry Research	Typic Dystrudepts	F
Japan	Banryu	Banryu-2	Cambisols	F ^{*3}
		Iwami "rinku" Factory Park	Acrisols	F ^{*3}
	Ijira	Lake Ijira	Dystric Cambisol	F ^{*3}
		Yamato	Andosols	F ^{*3}
Philippines	Los Banos	Mt. Makiling	Eutric Cambisol	S, F
		UP Quezon-Laguna Land Grant	Dystric Nitosol	S, F
	Mt. Sto. Tomas	Boneco Long Term Ecological Research Site		F

Country	Nearest deposition monitoring site	Site: Name of forests	Soil type	Items ^{*1}
Thailand	Vachiralongkorn Dam	Vachiralongkorn Dam	Ferric Acrisols	S, F ^{*4}
		Vachiralongkorn Puye	Luisols	S, F ^{*4}

*1. S, Soil monitoring; F, Forest monitoring; 2. Soil type has not been classified by the FAO/UNESCO or relevant taxonomies; 3. Observation of tree decline was only conducted; 4. Photographic record was only submitted.

5.2 Results of Monitoring

Results of basic survey for soil and forest were reported in the following tables:

Table 5.5: Soil chemical analysis

Table 5.6: Observation of tree decline

Table 5.7: Description of trees

Table 5.8: Understory vegetation survey

Figure 5.3: Photographic record of tree decline

Table 5.5 a-1) Soil chemical analysis: Los Baños-1

Sampling date: 8 April 2008

Name of analysis laboratory: Department of Soil Science,UPLB

Sample No.	Location	Soil type	Plot No.	Subplot No.	Layer analyzed (cm)	Repeat analysis	Moisture content (wt %)	pH		Exchangeable base cations				Ex-acidity	Ex-acid cation		ECEC	Base saturati %
								H ₂ O	KCl	Ca	Mg	K	Na		Al	H		
1	Mt. Makiling, Los Baños, Laguna	Eutric Cambisol	1	1	0 - 10	1st	1.1	5.8	5.5	14.54	12.50	3.57	0.49	0.33	0.00	0.33	31.43	99.0
							1.1	5.5	5.0	13.80	12.41	3.52	0.43	0.33	0.00	0.33	30.49	98.9
							1.1	5.6	5.3	14.71	12.92	3.49	0.50	0.33	0.00	0.33	31.95	99.0
							1.1	5.3	5.1	14.14	12.92	3.32	0.47	0.81	0.50	0.31	31.66	97.5
							1.1	6.3	5.9	14.51	12.83	3.44	0.44	0.30	0.00	0.30	31.52	99.0
2			10 - 20	1st	1.1	5.0	4.9	9.70	11.66	3.11	0.42	2.00	1.52	0.48	26.89	92.5		
					1.1	5.0	4.8	9.00	11.79	3.07	0.47	2.23	1.70	0.53	26.56	91.6		
					1.1	5.0	5.0	9.57	11.34	2.95	0.40	1.99	1.50	0.49	26.25	92.4		
					1.1	4.9	4.8	8.71	11.69	3.07	0.37	2.37	1.82	0.55	26.21	91.0		
					1.1	6.0	5.4	9.61	11.26	3.06	0.40	0.33	0.00	0.33	24.66	98.7		
3	0 - 10	1st	1.1	6.2	5.7	15.58	12.93	4.01	0.46	0.33	0.00	0.33	33.31	99.0				
			1.1	6.0	5.7	15.02	12.96	3.83	0.49	0.33	0.00	0.33	32.63	99.0				
			1.1	5.8	5.3	14.55	12.86	4.01	0.50	0.35	0.00	0.35	32.27	98.9				
			1.1	6.0	5.6	15.33	12.90	3.89	0.45	0.34	0.00	0.34	32.91	99.0				
			1.1	6.0	5.4	15.41	12.82	3.99	0.43	0.33	0.00	0.33	32.98	99.0				
4	10 - 20	1st	1.1	6.0	5.7	13.82	11.26	3.62	0.42	0.34	0.00	0.34	29.46	98.8				
			1.1	5.8	5.2	12.97	11.15	3.52	0.47	0.34	0.00	0.34	28.45	98.8				
			1.1	5.1	4.9	13.66	11.05	3.39	0.38	0.63	0.09	0.54	29.11	97.8				
			1.1	5.4	5.0	13.59	11.15	3.39	0.43	0.49	0.06	0.43	29.05	98.3				
			1.1	5.1	4.9	13.55	11.06	3.41	0.41	0.65	0.09	0.56	29.08	97.8				

Sampling date: April 8, 2008

Name of analysis laboratory: Department of Soil Science,UPLB

Sample No.	Location	Soil type	Plot No.	Subplot No.	Layer analyzed (cm)	Repeat* analysis	Moisture content (wt %)	pH		Exchangeable base cations				Ex-acidity	Ex-acid cation		ECEC	Base saturati %
								H ₂ O	KCl	Ca	Mg	K	Na		Al	H		
1	Mt. Makiling, Los Baños, Laguna	Eutric Cambisol	1	1	0 - 10	2nd	1.1	5.8	5.4	13.29	12.91	3.41	0.55	0.33	0.00	0.33	30.49	98.9
							1.1	5.5	5.0	13.29	12.72	3.56	0.50	0.33	0.00	0.33	30.40	98.9
							1.1	5.6	5.2	12.74	12.76	3.64	0.47	0.33	0.00	0.33	29.94	98.9
							1.1	5.3	5.1	13.02	12.69	3.42	0.47	0.81	0.50	0.31	30.41	97.3
							1.1	6.3	6.0	13.29	12.59	3.38	0.52	0.30	0.00	0.30	30.08	99.0
2			10 - 20	2nd	1.1	5.1	4.9	12.25	11.67	2.99	0.39	2.00	1.52	0.48	29.30	93.2		
					1.1	5.0	4.9	12.20	11.58	2.96	0.46	2.23	1.70	0.53	29.43	92.4		
					1.1	5.0	4.9	12.47	11.76	3.08	0.45	1.99	1.50	0.49	29.75	93.3		
					1.1	4.9	4.7	12.47	11.48	2.98	0.51	2.37	1.82	0.55	29.81	92.0		
					1.1	6.0	5.4	12.47	11.64	3.05	0.43	0.33	0.00	0.33	27.92	98.8		
3	0 - 10	2nd	1.1	6.1	5.8	18.84	12.94	3.86	0.49	0.33	0.00	0.33	36.46	99.1				
			1.1	6.0	5.6	19.43	12.84	3.87	0.49	0.33	0.00	0.33	36.96	99.1				
			1.1	5.8	5.4	19.74	12.95	3.81	0.44	0.35	0.00	0.35	37.29	99.1				
			1.1	5.9	5.6	19.61	12.88	4.04	0.54	0.34	0.00	0.34	37.41	99.1				
			1.1	6.0	5.4	19.55	12.91	3.89	0.50	0.33	0.00	0.33	37.18	99.1				
4	10 - 20	2nd	1.1	6.0	5.6	16.17	11.46	3.17	0.43	0.34	0.00	0.34	31.57	98.9				
			1.1	5.8	5.2	15.92	11.63	2.99	0.41	0.34	0.00	0.34	31.29	98.9				
			1.1	5.2	4.9	16.33	11.45	3.27	0.52	0.63	0.09	0.54	32.20	98.0				
			1.1	5.4	5.0	16.60	11.46	3.22	0.41	0.49	0.06	0.43	32.18	98.5				
			1.1	5.1	4.9	16.74	11.41	3.11	0.46	0.65	0.09	0.56	32.37	98.0				

Table 5.5 a-2) Soil chemical analysis: Los Banos-2

Sampling date: 7 April 2008

Name of analysis laboratory: Department of Soil Science,UPLB

Sample No.	Location	Soil type	Plot No.	Subplot No.	Layer analyzed (cm)	Repeat* analysis	Moisture content (wt %)	pH		Exchangeable basecations				Ex-acidity	Ex-acid cation		ECEC	Base saturati %
								H ₂ O	KCl	Ca	Mg	K	Na		Al	H		
								(cmol (+)/kg)										
1	UP Quezon - Laguna Land Grant	Dystric Nitosol	1	1	0 - 10	1st	1.1	4.8	4.0	3.61	0.32	0.67	0.25	4.14	3.86	0.28	8.99	53.9
				2			1.1	4.6	4.0	3.36	0.28	0.64	0.25	4.72	4.19	0.53	9.25	49.0
				3			1.1	4.7	4.1	3.44	0.37	0.63	0.32	5.16	4.67	0.49	9.92	48.0
				4			1.1	4.7	3.9	3.70	0.24	0.64	0.30	5.49	4.94	0.55	10.37	47.0
				5			1.1	4.8	3.9	3.65	0.30	0.69	0.26	4.53	4.28	0.25	9.43	51.9
2			1	10 - 20	1st	1	1.1	4.5	3.9	1.03	0.18	0.53	0.22	4.68	4.38	0.30	6.64	29.5
						2	1.1	4.6	3.9	1.32	0.21	0.57	0.20	5.00	4.81	0.19	7.29	31.5
						3	1.1	4.6	3.8	1.17	0.24	0.51	0.24	5.02	4.76	0.26	7.18	30.1
						4	1.1	4.6	3.7	1.25	0.20	0.53	0.24	5.69	5.38	0.31	7.91	28.1
5						1.1	4.8	3.8	1.20	0.22	0.57	0.20	4.88	4.65	0.23	7.06	31.0	
3	2	0 - 10	1st	1	1.1	4.6	3.8	4.08	0.52	0.60	0.29	7.00	6.73	0.27	12.49	44.0		
				2	1.1	4.8	3.8	4.19	0.46	0.65	0.24	7.38	7.16	0.22	12.93	42.9		
				3	1.1	4.8	3.8	4.14	0.43	0.61	0.26	7.46	7.22	0.24	12.91	42.2		
				4	1.1	4.6	3.8	4.13	0.38	0.61	0.33	6.98	6.68	0.30	12.43	43.8		
				5	1.1	4.7	3.7	3.96	0.40	0.64	0.29	7.99	7.69	0.30	13.28	39.8		
4		10 - 20	1st	1	1.1	4.5	3.7	1.36	0.24	0.58	0.27	7.53	7.30	0.23	9.98	24.6		
				2	1.1	4.6	3.8	1.16	0.24	0.57	0.22	6.97	6.80	0.17	9.16	23.9		
				3	1.1	4.7	3.7	1.39	0.26	0.50	0.24	6.79	6.58	0.21	9.18	26.1		
				4	1.1	4.6	3.8	1.22	0.23	0.55	0.20	7.45	7.23	0.22	9.65	22.8		
				5	1.1	4.7	3.7	1.32	0.24	0.54	0.17	7.27	7.03	0.24	9.54	23.8		

Sampling date: April 7, 2008

Name of analysis laboratory: Department of Soil Science,UPLB

Sample No.	Location	Soil type	Plot No.	Subplot No.	Layer analyzed (cm)	Repeat* analysis	Moisture content (wt %)	pH		Exchangeable basecations				Ex-acidity	Ex-acid cation		ECEC	Base saturati %
								H ₂ O	KCl	Ca	Mg	K	Na		Al	H		
								(cmol (+)/kg)										
1	UP Quezon - Laguna Land Grant	Dystric Nitosol	1	1	0 - 10	2nd	1.1	4.8	4.0	4.07	0.30	0.61	0.28	4.14	3.86	0.28	9.40	55.9
				2			1.1	4.6	4.0	3.88	0.28	0.63	0.41	4.72	4.19	0.53	9.92	52.4
				3			1.1	4.7	4.1	4.05	0.33	0.61	0.25	5.16	4.67	0.49	10.40	50.4
				4			1.1	4.7	3.9	3.92	0.24	0.60	0.23	5.49	4.94	0.55	10.48	47.6
				5			1.1	4.8	3.9	4.01	0.28	0.68	0.28	4.53	4.28	0.25	9.78	53.7
2			2	10 - 20	2nd	1	1.1	4.5	3.9	1.24	0.17	0.50	0.18	4.68	4.38	0.30	6.77	30.9
						2	1.1	4.6	3.9	1.26	0.22	0.53	0.22	5.00	4.81	0.19	7.22	30.8
						3	1.1	4.6	3.8	1.28	0.24	0.55	0.35	5.02	4.76	0.26	7.44	32.5
						4	1.1	4.6	3.7	1.08	0.18	0.50	0.21	5.69	5.38	0.31	7.66	25.7
5						1.1	4.8	3.8	1.25	0.20	0.57	0.22	4.88	4.65	0.23	7.12	31.5	
3	2	0 - 10	2nd	1	1.1	4.6	3.8	4.04	0.33	0.60	0.28	7.00	6.73	0.27	12.24	42.8		
				2	1.1	4.8	3.8	4.08	0.36	0.63	0.26	7.38	7.16	0.22	12.72	41.9		
				3	1.1	4.8	3.8	4.06	0.43	0.66	0.35	7.46	7.22	0.24	12.96	42.4		
				4	1.1	4.6	3.8	4.23	0.29	0.60	0.24	6.98	6.68	0.30	12.34	43.4		
				5	1.1	4.7	3.7	4.15	0.32	0.69	0.31	7.99	7.69	0.30	13.45	40.6		
4	10 - 20	2nd	1	1.1	4.5	3.7	1.30	0.24	0.50	0.34	7.53	7.30	0.23	9.91	24.0			
			2	1.1	4.6	3.8	1.24	0.24	0.57	0.25	6.97	6.80	0.17	9.27	24.8			
			3	1.1	4.7	3.7	1.42	0.26	0.50	0.18	6.79	6.58	0.21	9.15	25.8			
			4	1.1	4.6	3.8	1.34	0.21	0.51	0.21	7.45	7.23	0.22	9.72	23.3			
			5	1.1	4.7	3.7	1.21	0.24	0.57	0.20	7.27	7.03	0.24	9.49	23.4			

Table 5.5 b-1) Soil chemical analysis: Vachiralongkorn Dam

Sampling date : 17 December 2008

Name of analysis laboratory: King Mongkut's University fo Technology Thonburi

Sample No.	Location	Soil type	Plot No.	Subplot No.	Layer analyzed (cm)	Repeat analysis	Moisture content (wt%)	pH		Exchangeable basecations (B)				Ex-acidity (A)		Ex-acid cations		ECEC (A)+(B)	Base saturation %
								H ₂ O	KCl	Ca	Mg	K	Na	Al	H				
								(cmol(+)kg ⁻¹)											
1	Vachiralongorn Dam	Ferric Acrisols	1	1	0-10	1st	6.7	7.1	6.3	38.89	4.97	0.02	0.32	0.27	0.25	0.01	44.47	99.4	
2				2	0-10		5.7	6.8	5.9	22.48	6.71	0.02	0.32	0.26	0.25	0.01	29.80	99.1	
3				3	0-10		6.3	7.3	6.4	32.34	7.18	0.03	0.49	0.32	0.21	0.11	40.35	99.2	
4				4	0-10		6.8	7.0	6.1	32.09	6.06	0.02	0.53	0.27	0.26	0.01	38.96	99.3	
5				5	0-10		5.3	6.6	5.6	19.47	5.97	0.02	0.31	0.26	0.08	0.18	26.03	99.0	
6			2	1	0-10	1st	6.1	6.8	5.8	29.75	6.67	0.02	0.33	0.21	0.17	0.04	36.98	99.4	
7				2	0-10		6.8	7.1	6.2	44.85	8.11	0.02	0.43	0.16	0.13	0.03	53.57	99.7	
8				3	0-10		7.6	7.1	6.1	40.10	6.08	0.03	0.34	0.16	0.13	0.03	46.71	99.7	
9				4	0-10		6.6	6.4	5.4	28.28	4.09	0.03	0.32	0.21	0.17	0.04	32.93	99.4	
10				5	0-10		6.9	6.4	5.3	26.84	4.06	0.03	0.29	0.16	0.13	0.03	31.38	99.5	
11			1	1	10-20	1st	6.1	6.7	5.4	16.48	4.92	0.02	0.24	0.26	0.13	0.14	21.92	98.8	
12				2	10-20		6.2	6.9	6.0	29.11	3.39	0.03	0.26	0.32	0.21	0.11	33.11	99.0	
13				3	10-20		6.0	7.3	6.5	27.12	4.65	0.03	0.39	0.32	0.17	0.15	32.51	99.0	
14				4	10-20		5.7	7.0	5.9	22.95	4.62	0.01	0.22	0.21	0.17	0.04	28.01	99.2	
15				5	10-20		5.2	6.4	5.2	12.82	4.46	0.01	0.21	0.11	0.08	0.02	17.61	99.4	
16			2	1	10-20	1st	5.3	6.4	5.2	15.21	5.49	0.01	0.23	0.16	0.13	0.03	21.11	99.3	
17				2	10-20		6.5	7.1	6.0	31.11	4.80	0.02	0.26	0.16	0.13	0.03	36.35	99.6	
18				3	10-20		6.7	6.9	5.8	35.67	5.08	0.03	0.27	0.21	0.17	0.04	41.25	99.5	
19				4	10-20		6.3	6.6	5.4	28.41	3.21	0.03	0.21	0.16	0.13	0.03	32.01	99.5	
20				5	10-20		6.6	6.3	5.1	22.08	2.66	0.02	0.25	0.11	0.09	0.02	25.11	99.6	

Sampling date: 17 December 2008

Name of analysis laboratory: King Mongkut's University of Technology Thonburi

Sample No.	Location	Soil type	Plot No.	Subplot No.	Layer analyzed (cm)	Repeat analysis	Moisture content (wt%)	pH		Exchangeable basecations (B)				Ex-acidity (A)		Ex-acid cations		ECEC (A)+(B)	Base saturation %
								H ₂ O	KCl	Ca	Mg	K	Na	Al	H				
								(cmol(+)kg ⁻¹)											
1	Vachiralongorn Dam	Ferric Acrisols	1	1	0-10	2nd	6.7	7.1	6.2	36.49	4.60	0.02	0.36	0.27	0.21	0.05	41.7	99.4	
2				2	0-10		6.2	6.9	5.9	22.18	6.80	0.01	0.32	0.27	0.25	0.01	29.6	99.1	
3				3	0-10		6.0	7.3	6.4	31.28	6.77	0.02	0.45	0.21	0.17	0.04	38.7	99.5	
4				4	0-10		6.0	7.1	6.1	31.91	5.87	0.02	0.52	0.21	0.17	0.04	38.5	99.4	
5				5	0-10		5.2	6.7	5.7	18.19	5.32	0.01	0.29	0.16	0.13	0.03	24.0	99.3	
6			2	1	0-10	2nd	6.0	6.9	5.8	27.86	6.23	0.01	0.28	0.21	0.17	0.04	34.6	99.4	
7				2	0-10		6.8	7.1	6.3	44.83	7.96	0.02	0.36	0.16	0.13	0.03	53.3	99.7	
8				3	0-10		7.4	6.9	6.2	41.00	6.23	0.03	0.34	0.16	0.13	0.03	47.8	99.7	
9				4	0-10		6.8	6.4	5.4	28.39	4.16	0.02	0.33	0.21	0.17	0.04	33.1	99.4	
10				5	0-10		6.5	6.4	5.3	26.41	4.13	0.03	0.25	0.16	0.13	0.03	31.0	99.5	
11			1	1	10-20	2nd	6.1	6.7	5.4	16.64	5.17	0.02	0.19	0.26	0.21	0.05	22.3	98.8	
12				2	10-20		6.4	6.9	6.0	27.07	3.05	0.03	0.37	0.21	0.17	0.04	30.7	99.3	
13				3	10-20		5.4	7.3	6.4	28.38	4.78	0.03	0.27	0.21	0.17	0.04	33.7	99.4	
14				4	10-20		5.8	7.0	5.9	22.27	4.47	0.02	0.24	0.21	0.17	0.04	27.2	99.2	
15				5	10-20		5.1	6.4	5.2	13.25	4.81	0.01	0.17	0.10	0.08	0.02	18.4	99.4	
16			2	1	10-20	2nd	5.3	6.4	5.2	14.07	5.46	0.01	0.20	0.16	0.13	0.03	19.9	99.2	
17				2	10-20		6.6	7.1	6.0	30.03	4.51	0.03	0.25	0.16	0.13	0.03	35.0	99.5	
18				3	10-20		6.8	6.8	5.8	32.81	4.62	0.02	0.23	0.21	0.17	0.04	37.9	99.4	
19				4	10-20		6.5	6.6	5.5	28.92	3.18	0.03	0.18	0.16	0.13	0.03	32.5	99.5	
20				5	10-20		6.4	6.3	5.1	23.53	2.84	0.02	0.16	0.11	0.09	0.02	26.7	99.6	

Table 5.5 b-2) Soil chemical analysis: Vachiralongkorn Dam (Puye)

Sampling date: 17 December 2008

Name of analysis laboratory: King Mongkut's University of Technology Thonburi

Sample No.	Location	Soil type*	Plot No.	Subplot No.	Layer analyzed (cm)	Repeat analysis	Moisture content (wt%)	pH			Exchangeable basecations (B)				Ex-acidity (A)	Ex-acid cations		ECEC (A)+(B)	Base saturation %
								H ₂ O	KCl		Ca	Mg	K	Na		Al	H		
								(cmol(+)kg ⁻¹)											
1	Vachiralongkorn Dam (Puye)	USA Texonomy : Hapluf Taliff / FAO : Luvisols	3	1	0-10	1st	2.3	5.5	4.3	3.79	1.59	0.02	0.33	0.36	0.25	0.11	6.08	94.1	
2				2	0-10		2.0	5.4	4.2	3.73	1.98	0.00	0.45	0.56	0.41	0.15	6.73	91.7	
3				3	0-10		2.0	6.0	4.9	6.43	1.69	0.00	0.26	0.15	0.12	0.03	8.54	98.2	
4				4	0-10		4.1	5.7	4.5	4.50	1.60	0.00	0.34	0.21	0.12	0.08	6.66	96.9	
5				5	0-10		2.0	5.5	4.2	3.27	1.20	0.01	0.32	0.61	0.45	0.16	5.40	88.7	
6			3	1	10-20	1st	1.6	5.1	3.8	1.37	0.64	0.00	0.20	1.93	1.62	0.30	4.15	53.5	
7				2	10-20		1.7	5.1	3.8	1.13	0.59	0.00	0.18	2.18	1.83	0.36	4.09	46.6	
8				3	10-20		1.8	5.8	4.5	4.61	1.35	0.02	0.20	0.15	0.12	0.03	6.34	97.6	
9				4	10-20		2.1	5.4	4.0	2.56	1.00	0.00	0.29	1.02	0.90	0.12	4.87	79.1	
10				5	10-20		1.9	5.1	3.9	1.75	0.87	0.00	0.19	1.73	1.14	0.59	4.53	61.8	

Sampling date: 17 December 2008

Name of analysis laboratory: King Mongkut's University of Technology Thonburi

Sample No.	Location	Soil type*	Plot No.	Subplot No.	Layer analyzed (cm)	Repeat analysis	Moisture content (wt%)	pH			Exchangeable basecations (B)				Ex-acidity (A)	Ex-acid cations		ECEC (A)+(B)	Base saturation %
								H ₂ O	KCl		Ca	Mg	K	Na		Al	H		
								(cmol(+)kg ⁻¹)											
1	Vachiralongkorn Dam (Puye)	USA Texonomy : Hapluf Taliff / FAO : Luvisols	3	1	0-10	2nd	2.4	5.5	4.3	3.65	1.44	0.00	0.33	0.36	0.25	0.11	5.8	93.8	
2				2	0-10		1.9	5.4	4.2	4.16	1.54	0.01	0.455	0.51	0.37	0.14	6.7	92.4	
3				3	0-10		1.9	5.9	4.9	6.27	1.99	0.00	0.236	0.15	0.12	0.03	8.6	98.2	
4				4	0-10		4.3	5.7	4.5	3.85	1.31	0.00	0.499	0.21	0.17	0.04	5.9	96.5	
5				5	0-10		1.9	5.4	4.2	3.21	1.18	0.00	0.405	0.66	0.49	0.17	5	87.9	
6			3	1	10-20	2nd	1.6	5.1	3.8	1.37	0.69	0.00	0.21	1.93	1.62	0.30	4	54.1	
7				2	10-20		1.7	5.0	3.8	1.13	0.68	0.00	0.20	2.18	1.79	0.40	4.2	48.0	
8				3	10-20		1.7	5.8	4.5	4.48	1.19	0.00	0.210	0.15	0.12	0.03	6	97.5	
9				4	10-20		2.0	5.3	4.0	2.51	1.04	0.00	0.212	1.07	0.90	0.17	5	77.9	
10				5	10-20		1.9	5.2	3.9	1.78	0.83	0.01	0.30	1.83	1.26	0.57	4.8	61.5	

Table 5.6 a-1-1) Observation of tree decline: Chongqing-1

Name of plot: Jinyunshan 1#

Nearest deposition monitoring site: Jinyunshan, Chongqing

Date: 13 October 2008

Individual No.	1(3)	2(2)	3(58)	4(101)	5(105)	6(70)	7(71)	8(72)	9(103)	10(104)	11(97)	12	13	14	15
Direction (E, W, S, or N)	E	E	E	S	S	W	W	W	N	N	N				
Plant Name	<i>Coniopholis lanata</i>	<i>Symplocos serchuanensis</i>	<i>Symplocos serchuanensis</i>	<i>Symplocos serchuanensis</i>	<i>Symplocos serchuanensis</i>	<i>Symplocos serchuanensis</i>	<i>Symplocos serchuanensis</i>	<i>Symplocos serchuanensis</i>	<i>Symplocos serchuanensis</i>	<i>Symplocos serchuanensis</i>	<i>Elaeagnus argentea</i>				
Relative height															
Tree height (m)	15.5	7.1	5	11.6	9.6	6.1	6.9	8.6	9.8	10.1	14				
DBH (cm)	18.5	10.5	9.6	11.5	11.8	7.3	8.9	11.5	10.5	10.6	27.1				
Vitality of tree															
Form of tree	1														
Branch growth				1											
Dieback of stem															
Defoliation of crown															
Deformation of leaves															
Size of leaves															
Discoloration of leaves															
Injury of leaves											1				
Damage class ^{*1}															

Estimated cause of decline:

Note: *1. Damage class will be decided based on combination of defoliation and discoloration classes

Table 5.6 a-1-2) Observation of tree decline: Chongqing-2

Name of plot: Jinyunshan 2#

Nearest deposition monitoring site: Jinyunshan, Chongqing

Date: 13 October 2008

Individual No.	1(67)	2(68)	3(74)	4(76)	5(77)	6(41)	7(71)	8(70)	9(69)	10	11	12	13	14	15
Direction (E, W, S, or N)	E	E	S	S	W	W	N	N	N						
Plant Name	<i>Symplocos serchuanensis</i>	<i>Symplocos serchuanensis</i>	<i>Adiantum hookerianum</i>	<i>Symplocos serchuanensis</i>	<i>Symplocos lanatifolia</i>	<i>Adiantum hookerianum</i>	<i>Symplocos lanatifolia</i>	<i>Elaeagnus japonica</i>	<i>Michelia pingii</i>						
Relative height															
Tree height (m)	8	6.7	12.9	14.1	8.1	17.2	11.2	15	13.1						
DBH (cm)	8.9	12.7	15.3	21.3	14.3	19.1	15.3	37.8	21						
Vitality of tree															
Form of tree															
Branch growth															
Dieback of stem															
Defoliation of crown															
Deformation of leaves									1						
Size of leaves									1						
Discoloration of leaves															
Injury of leaves															
Damage class ^{*1}															

Estimated cause of decline:

Note: *1. Damage class will be decided based on combination of defoliation and discoloration classes

Table 5.6 a-2) Observation of tree decline: Xi'an

Name of plot: Jiwozi

Nearest deposition monitoring site: Jiwozi, Xi'an

Date: 31 October 2008

Individual No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Direction (E, W, S, or N)	E	E	E	E	E	S	S	S	S	S	W	W	W	W	W	N	N	N	N	N
Plant Name	<i>Pinus armandi Fanch</i>																			
Relative height																				
Tree height (m)	22.3	21.5	15.5	20.5	23.1	15.5	12.2	18	14.3	17.8	22.4	18.9	14.3	21.1	14.9	21.5	15.4	21	12.4	8.5
DBH (cm)	15.2	12.6	11.2	13.2	10	10.5	8.5	7.3	9.4	13.2	12.7	10	9.8	14	9.5	12	10.6	12.5	9.6	8
Vitality of tree	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Form of tree	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Branch growth	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dieback of stem	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Defoliation of crown																				
Deformation of leaves																				
Size of leaves																				
Discoloration of leaves																				
Injury of leaves																				
Damage class ^{*1}																				

Estimated cause of decline: Tree density is too high

Note: *1. Damage class was decided based on combination of defoliation and discoloration classes

Table 5.6 a-3) Observation of tree decline: Xiamen

Name of plot: #1 Xiaoping, Xiamen

Nearest deposition monitoring site: Xiaoping, Xiamen

Date: 18-20 October 2008

Individual No.	120	210	211	122	116	203	225	227	301	344	220	221	337	334	333	313	314	310	309	308
Direction (E, W, S, or N)																				
Plant Name	<i>Michelia macclurei</i> Dandy																			
Relative height																				
Tree height (m)	14.7	15.3	17.9	18.1	16.8	16.0	17.3	17.9	17.7	16.7	17.0	17.7	17.6	17.3	18.9	16.0	16.4	16.7	16.8	18.1
DBH (cm)	17.1	20.3	18.7	22.9	19.3	21.3	23.9	21	19.4	17.9	17.9	22.5	19.8	19.7	18.5	21.0	19.5	20.2	21.0	30.1
Vitality of tree												1								
Form of tree																				
Branch growth																				
Dieback of stem												1								
Defoliation of crown																				
Deformation of leaves																				
Size of leaves																				
Discoloration of leaves												1								
Injury of leaves																				
Damage class ^{*1}												1								

Estimated cause of decline:

Note: *1. Damage class was decided based on combination of defoliation and discoloration classes

Table 5.6 b) Observation of tree decline: Bogor

Site name: Dramaga Experimental Forest (Block 12), Bogor

Nearest deposition monitoring site: Serpong

Date: 16 December 2008

Individual No.	1 (71)	2 (72)	3 (49)	4 (27)	5 (279)	6 (280)	7 (281)	8 (282)	9 (283)	10 (284)
Plant Name	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>
Relative height	28	8	38	33	40	43	24	45	30	40
Vitality of tree		1								1
Form of tree	2			1		1				
Branch growth	1			1		1				
Dieback of stem										
Density of foliage	1					1				
Deformation of leaves										
Size of leaves										
Color of leaves										
Injury of leaves	1	1	1	1	1	1	1	1	1	1

Individual No.	11 (285)	12 (269)	13 (286)	14 (247)	15 (124)	16 (113)	17 (268)	18 (270)	19 (11)	20 (16)
Plant Name	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>
Relative height	40	30	38	42	40	24	28	8.5	7.9	7.95
Vitality of tree							1			
Form of tree	1		1							1
Branch growth										
Dieback of stem										
Density of foliage	1		1						1	
Deformation of leaves										
Size of leaves										
Color of leaves										
Injury of leaves	1	1	1	1	1	1	1	1	1	1

Individual No.	21 (83)	22 (123)	23 (146)	24 (150)	25 (151)	26 (172)	27 (175)	28 (232)	29 (247)	30 (248)
Plant Name	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>
Relative height	47	8	31	9	28	7.8	7.5	42	8.5	40
Vitality of tree			1							
Form of tree	1	1				1	1	1	1	1
Branch growth										
Dieback of stem										
Density of foliage	1				2	2	2		2	
Deformation of leaves										
Size of leaves										
Color of leaves										
Injury of leaves	1	1	1	1	1	1	1	1	1	1

Estimated cause of decline: pest and very dense

Table 5.6 b) (continued)

Individual No.	31 (264)	32 (265)	33 (266)	34 (267)	35 (271)	36 (272)	37 (273)	38 (274)	39 (275)	40 (276)
Plant Name	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Melia excelsa</i>	<i>Mesopsis ementi</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>
Relative height	10	40	6.5	5.81	26	7.8	6.45	24	43	7.7
Vitality of tree								1		
Form of tree	1	1	1	3	1		1			1
Branch growth			1	3						
Dieback of stem				3						
Density of foliage	2	1	2	3	1				1	
Deformation of leaves										
Size of leaves										
Color of leaves										
Injury of leaves	1	1			1	1	1		1	1

Individual No.	41 (277)	42 (278)	43 (286)	44 (287)	45 (288)	46 (289)	47 (290)	48 (291)	49 (292)	50 (293)	51 (294)
Plant Name	<i>Hopea mengarawan</i>	<i>Hopea odorata</i>	<i>Hopea mengarawan</i>	<i>Kluya grandifolia</i>	<i>Kluya grandifolia</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>	<i>Hopea mengarawan</i>
Relative height	8.5	30	38	45	33	42	40	32	35	42	40
Vitality of tree											
Form of tree			1								
Branch growth		2			1						
Dieback of stem											
Density of foliage	2	2	1	1	2						
Deformation of leaves											
Size of leaves											
Color of leaves											
Injury of leaves	1	1				1			1		1

Estimated cause of decline: pest and very dense

Table 5.6 c-1-1) Observation of tree decline: Lake Banryu-1

Name of Plot: Banryu-2

Nearest deposition monitoring site: Banryu

Date: 7 October 2008

Individual No.	72	82	76	63	64	65	54	83	34	35	37
Direction (E, W, S, or N)	N	N	N	E	E	E	S	S	W	W	W
Plant Name	<i>Castanopsis cuspidata</i> var. <i>sieboldii</i>	<i>Machilus thunbergii</i>	<i>Symplocos laevis</i>	<i>Machilus thunbergii</i>	<i>Syrax japonica</i>	<i>Machilus thunbergii</i>	<i>Clethra barbinervis</i>	<i>Quercus serrata</i>	<i>Machilus thunbergii</i>	<i>Machilus thunbergii</i>	<i>Acanthopanax sciadophylloides</i>
Relative height	+	+	+	+	+	+	+	+	+	+	+
Tree height (m)	14.0	14.3	13.5	12.1	12.5	13.5	11.7	10.5	13.6	14.3	-
DBH (cm)	23.1	25.7	11.7	24.6	15.8	20.4	11.2	14.5	24.2	20.2	-
Vitality of tree											4
Form of tree											
Branch growth											
Dieback of stem								1			
Defoliation of crown											
Deformation of leaves											
Size of leaves											
Discoloration of leaves											
Injury of leaves											
Damage class											

Estimated cause of decline: No. 37, lodging death by strong wind; No. 83, broken stems by effects of specific disease for Fagaceae tree species (infection of *Raffaelea quercivora* through the beetle, *Platypus quercivorus*)

Table 5.6 c-1-2) Observation of tree decline: Lake Banryu-2

Name of Plot: Iwami "rinku" Factory Park

Nearest deposition monitoring site: Banryu

Date: 8 October 2008

Individual No.	92	93	122	100	104	108	127	128	63	137	138	140	112	113	114	142	141	
Direction	N	N	N	E	E	E	E	E	S	S	S	S	W	W	W	W	W	
Plant Name	<i>Machilus thunbergii</i>	<i>Machilus thunbergii</i>	<i>Ilex microcarpa</i>	<i>Quercus serrata</i>	<i>Castanopsis cuspidata</i> var. <i>sieboldii</i>	<i>Castanopsis cuspidata</i> var. <i>sieboldii</i>	<i>Castanopsis cuspidata</i> var. <i>sieboldii</i>	<i>Castanopsis cuspidata</i> var. <i>sieboldii</i>	<i>Castanopsis cuspidata</i> var. <i>sieboldii</i>	<i>Castanopsis cuspidata</i> var. <i>sieboldii</i>	<i>Quercus serrata</i>	<i>Castanopsis cuspidata</i> var. <i>sieboldii</i>	<i>Quercus serrata</i>	<i>Machilus thunbergii</i>	<i>Machilus thunbergii</i>	<i>Machilus thunbergii</i>	<i>Quercus serrata</i>	<i>Machilus thunbergii</i>
Relative height			+		+													
Tree height (m)	14.1	18.0	21.9	18.6	18.1	18.5	18.7	17.9	17.8		14.5	—	17.2	18.1	17.8	13.9	15.1	
DBH (cm)	23.3	27.8	28.4	28.6	28.3	25.5	28.8	34.1	31.4		23.3	—	20.9	22.5	27.6	34.7	24.1	
Vitality of tree												4				2		
Form of tree																		
Branch growth																		
Dieback of stem																	2	
Defoliation of crown																	2	
Deformation of leaves																		
Size of leaves																		
Discoloration of leaves																	1	
Injury of leaves																	1	
Damage class ^{*1}																	2	

Estimated cause of decline: No.140 and 142, effects of specific disease for Fagaceae tree species (infection of *Raffaelea quercivora* through the beetle, *Platypus quercivorus*); No. 137, dead in 2006.

Note: *1. Damage class was decided based on combination of defoliation and discoloration classes

Table 5.6 c-2-1) Observation of tree decline: Lake Ijira

Name of Plot: Lake Ijira

Nearest deposition monitoring site: Ijira

Date: 19 November 2008

Individual No.	1	2	3	3-2	4	5	5-2	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Direction	N	N	N	N	N	N	N	E	E	E	E	E	S	S	S	S	S	W	W	W	W	W
Plant Name	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Cryptomeria japonica</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>
Relative height	+				-				+					-	-					-	-	
Tree height (m)								14.0	13.7	13.5		14.4					15.9					
DBH (cm)								20.4	23.5	19.6		18.1					13.5					
Vitality of tree										1				1	1					1	1	
Form of tree	2									1				2	2					1	1	
Branch growth																						
Dieback of stem										1												
Defoliation of crown					1																	
Deformation of leaves																						
Size of leaves																						
Discoloration of leaves																						
Injury of leaves																						
Damage class																						

Estimated cause of decline: No.1, suppression by other trees and broken stem; No.8, No.18 and No.19, suppression by other trees; No.12 and No.13, broken stem; No.3 and No.5, cut down due to a forest management; The size of trees was measured in 2006.

Note: The surveyor was changed in 2008.

Table 5.6 c-2-2) Observation of tree decline: Lake Ijira-2

Name of Plot: Yamato

Nearest deposition monitoring site: Ijira

Date: 17 October 2008

Individual No.	22	21	9	10	23	46	47	45	42	7	36	33	14	15	37	30	29	11	12	31	
Direction	N	N	N	N	N	E	E	E	E	E	S	S	S	S	S	W	W	W	W	W	
Plant Name	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	
Relative height																					
Tree height (m)	29.2	27.2	28.7	27.5	30.4	29.2	28.1	27.9	28.6	27.6	23.7	26.3	24.9	26.1	27.3	28.8	25.6	28.3	29.5	25.2	
DBH (cm)	36.0	37.5	29.8	41.2	38.8	42.4	37.4	35.3	40.5	37.6	31.5	30.8	31.2	32.4	39.3	29.3	33.3	41.9	36.7	33.9	
Vitality of tree				1							2	1	1	4						1	
Form of tree				1								1	1	4						1	
Branch growth																					
Dieback of stem				1							2										
Defoliation of crown											1			4							
Deformation of leaves																					
Size of leaves																					
Discoloration of leaves																					
Injury of leaves																					
Damage class																					

Estimated cause of tree decline: No.10, broken stem; No.14, effects of previous suppressions by other trees; No.15, broken stem by heavy snow; No.31, 33, curved shape (effects of heavy snow); No.36, broken stem; The size of trees was measured in 2006.

Note: The surveyor was changed in 2008.

Table 5.6 d-1) Observation of tree decline: Los Banos-1

Name of Plot: Mt. Makiling Forest Reserve
 Nearest deposition monitoring site: Los Banos
 Date: 8 April 2008

Individual No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Direction	East					West					North					South				
Plant Name	<i>Nephetium ramboutan</i>	<i>Aleurites moluccana</i>	<i>Diplodiscus paniculatus</i>	<i>Shorea contorta</i>	<i>Diplodiscus paniculatus</i>	<i>Planchonia spectabilis</i>	<i>Artisia pyramidalis</i>	<i>Shorea contorta</i>	<i>Shorea contorta</i>	<i>Litsea garciae</i>	<i>Myristica philippinensis</i>	<i>Myristica philippinensis</i>	<i>Parashorea malanonan</i>	<i>Calophyllum blancoi</i>	<i>Parashorea malanonan</i>	<i>Knema glomerata</i>	<i>Litsea garciae</i>	<i>Pisonia umbellifera</i>	<i>Shorea contorta</i>	<i>Diplodiscus paniculatus</i>
Relative height																				
Tree height (m)																				
DBH (cm)																				
Vitality of tree																				
Form of tree																				
Branch growth																				
Dieback of stem																				
Defoliation of crown																				
Deformation of leaves																				
Size of leaves																				
Discoloration of leaves																				
Injury of leaves																				
Damage class																				

Estimated cause of decline: presence of termites and trees leaning

Table 5.6 d-2) Observation of tree decline: Los Banos-2

Name of Plot: UPLB Quezon- Laguna Land Grant

Nearest deposition monitoring site: Los Banos

Date: 7 April 2008

Individual No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Direction	East					West					North					South				
Plant Name	<i>Paraserianthes falcata</i>	<i>Pteris tripartita</i>	Undertified	<i>Astonia macrophylla</i>	<i>Astonia macrophylla</i>	<i>Trichadenia philippinensis</i>	<i>Macaranga bicolor</i>	<i>Macaranga bicolor</i>	<i>Macaranga bicolor</i>	<i>Ficus callosa</i>	<i>Pterocarpus indicus</i>	<i>Randia stenophylla</i>	<i>Syzygium nitidum</i>	<i>Pteris tripartita</i>	<i>Ficus callosa</i>	<i>Paraserianthes falcata</i>	<i>Trichadenia philippinensis</i>	<i>Voacanga globosa</i>	<i>Syzygium calubecob</i>	<i>Ceiba pentandra</i>
Relative height																				
Tree height (m)																				
DBH (cm)																				
Vitality of tree																				
Form of tree																				
Branch growth																				
Dieback of stem																				
Defoliation of crown																				
Deformation of leaves																				
Size of leaves																				
Discoloration of leaves																				
Injury of leaves																				
Damage class																				

Estimated cause of decline: presence of termites and trees leaning

Table 5.6 d-3) Observation of tree decline: Boneco LTER Site

Name of Plot: Boneco Long Term Ecological Research Site

Nearest deposition monitoring site: Mt. Sto. Tomas

Date: 17 April 2008

Individual No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Direction																				
Plant Name	<i>Pinus kesiyua</i>	<i>Pinus kesiyua</i>	<i>Pinus kesiyua</i>	<i>Pinus kesiyua</i>	<i>Pinus kesiyua</i>	<i>Pinus kesiyua</i>	<i>Pinus kesiyua</i>	<i>Pinus kesiyua</i>	<i>Pinus kesiyua</i>	<i>Pinus kesiyua</i>	<i>Pinus kesiyua</i>	<i>Pinus kesiyua</i>	<i>Pinus kesiyua</i>	<i>Pinus kesiyua</i>	<i>Pinus kesiyua</i>	<i>Pinus kesiyua</i>	<i>Pinus kesiyua</i>	<i>Pinus kesiyua</i>	<i>Pinus kesiyua</i>	<i>Pinus kesiyua</i>
Relative height																				
Tree height (m)																				
DBH (cm)																				
Vitality of tree																				
Form of tree																				
Branch growth																				
Dieback of stem																				
Defoliation of crown																				
Deformation of leaves																				
Size of leaves																				
Discoloration of leaves																				
Injury of leaves																				
Damage class																				

Estimated cause of decline:

Table 5.7 a-1-1) Description of trees: Zhuxiandong-1

Name of Plot: No.1 plot of Zhuhai (Mixed forest of *Pinus elliotii* and *Acacia confusa*)

Date: 29 November 2008

Survey area 1: radius 7.98 m (Height > 1.3 m)					Survey area 2: radius 11.28 m (DBH > 4 cm)					Survey area 3: radius 17.85 m (DBH > 18 cm)					
Serial No.	Species Name	DBH (cm)	Height (m)	Serial	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)	Serial	Species Name	DBH (cm)	Height (m)
1	<i>Archidendron clypearia</i>		1.6	51	<i>Litsea rotundifolia</i>		1.7	1	<i>Acacia confusa</i>	5.5	5.2	1	<i>Pinus massoniana</i>	23.6	12
2	<i>Cratoxylum cochinchinensis</i>		1.5	52	<i>Litsea rotundifolia</i>		1.8	2	<i>Acacia confusa</i>	8.5	8.8	2	<i>Pinus elliotii</i>	26	15
3	<i>Cratoxylum cochinchinensis</i>		2.7	53	<i>Litsea rotundifolia</i>		1.8	3	<i>Acacia confusa</i>	10.1	7	3	<i>Pinus elliotii</i>	21.3	13
4	<i>Cratoxylum cochinchinensis</i>		3	54	<i>Litsea rotundifolia</i>		1.9	4	<i>Acacia confusa</i>	17.4	11	4	<i>Pinus elliotii</i>	18.6	11
5	<i>Cratoxylum cochinchinensis</i>		3	55	<i>Litsea rotundifolia</i>		2	5	<i>Archidendron clypearia</i>	4.2	3	5	<i>Pinus elliotii</i>	27.8	13
6	<i>Cratoxylum cochinchinensis</i>		3	56	<i>Litsea rotundifolia</i>		2	6	<i>Archidendron clypearia</i>	4.5	3	6	<i>Pinus elliotii</i>	18.8	9
7	<i>Cratoxylum cochinchinensis</i>		4	57	<i>Litsea rotundifolia</i>		2	7	<i>Archidendron clypearia</i>	8.4	7	7	<i>Pinus elliotii</i>	20.4	9
8	<i>Cratoxylum cochinchinensis</i>		4	58	<i>Litsea rotundifolia</i>		2.1	8	<i>Cratoxylum cochinchinensis</i>	5.2	4	8	<i>Pinus elliotii</i>	23.4	12
9	<i>Cratoxylum cochinchinensis</i>		5	59	<i>Litsea rotundifolia</i>		2.1	9	<i>Cratoxylum cochinchinensis</i>	5.7	4	9	<i>Pinus elliotii</i>	19.3	13
10	<i>Cratoxylum cochinchinensis</i>		5	60	<i>Litsea rotundifolia</i>		2.3	10	<i>Cratoxylum cochinchinensis</i>	5.7	5	10	<i>Pinus elliotii</i>	18	12
11	<i>Cratoxylum cochinchinensis</i>		5.5	61	<i>Litsea rotundifolia</i>		2.4	11	<i>Cratoxylum cochinchinensis</i>	6.4	5	11	<i>Pinus elliotii</i>	20.5	12
12	<i>Cratoxylum cochinchinensis</i>		7	62	<i>Litsea rotundifolia</i>		2.7	12	<i>Eurya chinensis</i>	10.5	5.5	12	<i>Pinus elliotii</i>	36.6	12
13	<i>Desmos chinensis</i>		1.3	63	<i>Litsea rotundifolia</i>		2.8	13	<i>Litsea rotundifolia</i>	4	4	13	<i>Acacia confusa</i>	30.8	12
14	<i>Desmos chinensis</i>		3	64	<i>Litsea rotundifolia</i>		3	14	<i>Litsea rotundifolia</i>	4.1	3				
15	<i>Eurya chinensis</i>		1.75	65	<i>Litsea rotundifolia</i>		3	15	<i>Litsea rotundifolia</i>	4.3	4				
16	<i>Eurya chinensis</i>		2	66	<i>Litsea rotundifolia</i>		3	16	<i>Litsea rotundifolia</i>	4.3	3.5				
17	<i>Eurya groffii</i>		5	67	<i>Litsea rotundifolia</i>		3.2	17	<i>Litsea rotundifolia</i>	5.2	4				
18	<i>Fagerlindia depauperata</i>		2	68	<i>Litsea rotundifolia</i>		3.4	18	<i>Litsea rotundifolia</i>	6.5	4.5				
19	<i>Fagerlindia depauperata</i>		2.1	69	<i>Litsea rotundifolia</i>		3.5	19	<i>Microcos paniculata</i>	5.3	6				
20	<i>Fagerlindia depauperata</i>		2.5	70	<i>Litsea rotundifolia</i>		3.5	20	<i>Pinus elliotii</i>	8.6					
21	<i>Fagerlindia depauperata</i>		3	71	<i>Litsea rotundifolia</i>		3.5	21	<i>Pinus elliotii</i>	9	7				
22	<i>Fagerlindia depauperata</i>		3.2	72	<i>Litsea rotundifolia</i>		3.5	22	<i>Pinus elliotii</i>	10.2	8.5				
23	<i>Ficus hirta</i>		1.8	73	<i>Litsea rotundifolia</i>		3.6	23	<i>Pinus elliotii</i>	10.8	11				
24	<i>Ficus hirta</i>		2.5	74	<i>Litsea rotundifolia</i>		3.7	24	<i>Pinus elliotii</i>	11.2	7.5				
25	<i>Ficus hirta</i>		2.6	75	<i>Litsea rotundifolia</i>		3.8	25	<i>Pinus elliotii</i>	12.3	15				
26	<i>Ficus variolosa</i>		2	76	<i>Pinus elliotii</i>		7.3	26	<i>Pinus elliotii</i>	13.2	10				
27	<i>Ficus variolosa</i>		2.1	77	<i>Pinus elliotii</i>		7.5	27	<i>Pinus elliotii</i>	13.5	11				
28	<i>Ficus variolosa</i>		2.5	78	<i>Pinus elliotii</i>		8	28	<i>Pinus elliotii</i>	14	11				
29	<i>Ficus variolosa</i>		3	79	<i>Pinus elliotii</i>		10	29	<i>Pinus elliotii</i>	14.2	7.3				
30	<i>Ficus variolosa</i>		3.7	80	<i>Pinus elliotii</i>		11	30	<i>Pinus elliotii</i>	14.4	11				
31	<i>Gardenia jasminoides</i>		1.3	81	<i>Pinus elliotii</i>		11	31	<i>Pinus elliotii</i>	15.2	9				
32	<i>Gardenia jasminoides</i>		1.4	82	<i>Pinus elliotii</i>		11	32	<i>Pinus elliotii</i>	15.6	13				
33	<i>Gardenia jasminoides</i>		2.2	83	<i>Pinus elliotii</i>		12	33	<i>Pinus elliotii</i>	15.6	8				
34	<i>Gardenia jasminoides</i>		2.2	84	<i>Pinus elliotii</i>		13	34	<i>Pinus elliotii</i>	16.5	11				
35	<i>Gardenia jasminoides</i>		2.5	85	<i>Pinus elliotii</i>		13	35	<i>Pinus elliotii</i>	17.1	11				
36	<i>Gardenia jasminoides</i>		5	86	<i>Pinus massoniana</i>		7	36	<i>Pinus elliotii</i>	17.6	13.5				
37	<i>Ilex asprella</i>		1.6	87	<i>Pinus massoniana</i>		7.5	37	<i>Pinus elliotii</i>	18.6	11				
38	<i>Ilex asprella</i>		1.7	88	<i>Pinus massoniana</i>		8	38	<i>Pinus elliotii</i>	18.8	9				
39	<i>Ilex asprella</i>		2.3	89	<i>Psychotria asiatica</i>		1.3	39	<i>Pinus elliotii</i>	19.6	13				
40	<i>Ilex asprella</i>		2.4	90	<i>Psychotria asiatica</i>		1.6	40	<i>Pinus elliotii</i>	20.5	12				
41	<i>Ilex asprella</i>		2.4	91	<i>Raphiolepis indica</i>		1.6	41	<i>Pinus elliotii</i>	26	15				
42	<i>Ilex asprella</i>		2.7	92	<i>Raphiolepis indica</i>		2.8	42	<i>Pinus elliotii</i>	27.8	13				
43	<i>Ilex asprella</i>		2.7	93	<i>Raphiolepis indica</i>		3	43	<i>Pinus elliotii</i>	36.6	12				
44	<i>Ilex asprella</i>		3	94	<i>Rhodomyrtus tomentosa</i>		1.6	44	<i>Pinus massoniana</i>	9.3	7.5				
45	<i>Ilex asprella</i>		3.2	95	<i>Rhus succedanea</i>		3	45	<i>Pinus massoniana</i>	12	8				
46	<i>Litsea glutinosa</i>		2.2	96	<i>Schefflera octophylla</i>		3.2	46	<i>Pinus massoniana</i>	13.4	7				
47	<i>Litsea rotundifolia</i>		1.6	97	<i>Schefflera octophylla</i>		3.2	47	<i>Pinus massoniana</i>	14.3	8.5				
48	<i>Litsea rotundifolia</i>		1.6	98	<i>Schefflera octophylla</i>		4.5	48	<i>Pinus massoniana</i>	16	12				
49	<i>Litsea rotundifolia</i>		1.6	99	<i>Schefflera octophylla</i>		6	49	<i>Pinus massoniana</i>	16.2	11				
50	<i>Litsea rotundifolia</i>		1.7	100	<i>Zanthoxylum avicennae</i>		2.7	50	<i>Pinus massoniana</i>	16.2	11				
								51	<i>Pinus massoniana</i>	17.5	5.5				
								52	<i>Pinus massoniana</i>	23.6	12				
								53	<i>Sapium discolor</i>	8	3.5				
								54	<i>Schefflera octophylla</i>	4.3	3.2				
								55	<i>Schefflera octophylla</i>	4.4	2				
								56	<i>Schefflera octophylla</i>	5.4	2				
								57	<i>Schefflera octophylla</i>	5.5	3				
								58	<i>Schefflera octophylla</i>	5.9	6				

Note: DBH was not measured for the survey area 1.

Table 5.7 a-1-2) Description of trees: Zhuxiandong-2

Name of Plot: No.2 plot of Zhuhai (*Acacia confusa* forest)

Date: 29 November 2008

Survey area 1: radius 7.98 m
(Height > 1.3 m)

Survey area 2: radius 11.28 m
(DBH > 4 cm)

Survey area 3: radius 17.85 m
(DBH > 18 cm)

Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)
1	<i>Acacia confusa</i>		6.5	51	<i>Litsea rotundifolia</i>		5.2	1	<i>Acacia confusa</i>	4.0	4.5	1	<i>Acacia confusa</i>	18.6	12
2	<i>Acacia confusa</i>		6.5	52	<i>Litsea rotundifolia</i>		4.5	2	<i>Acacia confusa</i>	4.3	5	2	<i>Acacia confusa</i>	19.1	10
3	<i>Acacia confusa</i>		4.0	53	<i>Litsea rotundifolia</i>		2.0	3	<i>Acacia confusa</i>	4.7	7	3	<i>Acacia confusa</i>	19.2	9.5
4	<i>Acacia confusa</i>		6.0	54	<i>Litsea rotundifolia</i>		5.0	4	<i>Acacia confusa</i>	4.8	6	4	<i>Acacia confusa</i>	21.7	13
5	<i>Acacia confusa</i>		6.5	55	<i>Litsea rotundifolia</i>		2.0	5	<i>Acacia confusa</i>	4.8	9	5	<i>Acacia confusa</i>	22.0	11
6	<i>Acacia confusa</i>		7.0	56	<i>Litsea rotundifolia</i>		2.7	6	<i>Acacia confusa</i>	5.4	6	6	<i>Acacia confusa</i>	25.2	13
7	<i>Acacia confusa</i>		9.6	57	<i>Litsea rotundifolia</i>		6.5	7	<i>Acacia confusa</i>	5.6	6	7	<i>Acacia confusa</i>	26.2	9.8
8	<i>Acacia confusa</i>		9.4	58	<i>Litsea rotundifolia</i>		3.0	8	<i>Acacia confusa</i>	5.8	7.5				
9	<i>Acacia confusa</i>		8.2	59	<i>Litsea rotundifolia</i>		1.7	9	<i>Acacia confusa</i>	6.4	6				
10	<i>Archidendron clypearia</i>		5.0	60	<i>Litsea rotundifolia</i>		1.6	10	<i>Acacia confusa</i>	6.4	7				
11	<i>Archidendron clypearia</i>		6.5	61	<i>Litsea rotundifolia</i>		1.9	11	<i>Acacia confusa</i>	6.5	6.5				
12	<i>Archidendron clypearia</i>		5.0	62	<i>Litsea rotundifolia</i>		1.5	12	<i>Acacia confusa</i>	6.7	9				
13	<i>Archidendron clypearia</i>		1.7	63	<i>Litsea rotundifolia</i>		2.7	13	<i>Acacia confusa</i>	7.2	7				
14	<i>Archidendron clypearia</i>		1.5	64	<i>Litsea rotundifolia</i>		1.6	14	<i>Acacia confusa</i>	7.3	5.5				
15	<i>Archidendron clypearia</i>		1.4	65	<i>Litsea rotundifolia</i>		3.5	15	<i>Acacia confusa</i>	7.4	6				
16	<i>Bridelia tomentosa</i>		2.8	66	<i>Mallotus paniculata</i>		1.6	16	<i>Acacia confusa</i>	7.7	7				
17	<i>Clerodendrum fortunatum</i>		1.6	67	<i>Mallotus paniculata</i>		1.7	17	<i>Acacia confusa</i>	7.8	6.5				
18	<i>Cratogeomys cochinchinense</i>		2.0	68	<i>Mallotus paniculata</i>		9.5	18	<i>Acacia confusa</i>	8.4	7				
19	<i>Cratogeomys cochinchinense</i>		4.5	69	<i>Mallotus paniculata</i>		8.0	19	<i>Acacia confusa</i>	8.5	7				
20	<i>Cratogeomys cochinchinense</i>		2.8	70	<i>Microcos paniculata</i>		2.3	20	<i>Acacia confusa</i>	8.9	8				
21	<i>Cratogeomys cochinchinense</i>		1.6	71	<i>Microcos paniculata</i>		3.0	21	<i>Acacia confusa</i>	9.1	9				
22	<i>Cratogeomys cochinchinense</i>		2.4	72	<i>Microcos paniculata</i>		1.6	22	<i>Acacia confusa</i>	9.1	8				
23	<i>Desmos chinensis</i>		4.5	73	<i>Microcos paniculata</i>		5.2	23	<i>Acacia confusa</i>	9.5	7				
24	<i>Desmos chinensis</i>		4.0	74	<i>Microcos paniculata</i>		4.7	24	<i>Acacia confusa</i>	10.0	9				
25	<i>Fagerlindia depauperata</i>		1.7	75	<i>Microcos paniculata</i>		4.2	25	<i>Acacia confusa</i>	10.0	10				
26	<i>Fagerlindia depauperata</i>		2.2	76	<i>Microcos paniculata</i>		1.0	26	<i>Acacia confusa</i>	10.2	8				
27	<i>Fagerlindia depauperata</i>		3.0	77	<i>Microcos paniculata</i>		2.4	27	<i>Acacia confusa</i>	10.5	9.5				
28	<i>Fagerlindia depauperata</i>		1.7	78	<i>Microcos paniculata</i>		7.5	28	<i>Acacia confusa</i>	11.1	5				
29	<i>Ficus hirta</i>		1.4	79	<i>Microcos paniculata</i>		1.7	29	<i>Acacia confusa</i>	11.5	9				
30	<i>Ilex asprella</i>		2.2	80	<i>Sterculia lanceata</i>		2.0	30	<i>Acacia confusa</i>	11.6	11				
31	<i>Ilex asprella</i>		2.0	81	<i>Syzygium hancei</i>		6.0	31	<i>Acacia confusa</i>	11.6	8				
32	<i>Litsea glutinosa</i>		4.0	82	<i>Syzygium hancei</i>		1.7	32	<i>Acacia confusa</i>	12.8					
33	<i>Litsea rotundifolia</i>		1.4					33	<i>Acacia confusa</i>	13.0	6				
34	<i>Litsea rotundifolia</i>		1.6					34	<i>Acacia confusa</i>	13.2	9				
35	<i>Litsea rotundifolia</i>		2.0					35	<i>Acacia confusa</i>	14.0	10.5				
36	<i>Litsea rotundifolia</i>		4.5					36	<i>Acacia confusa</i>	14.2	11				
37	<i>Litsea rotundifolia</i>		2.8					37	<i>Acacia confusa</i>	14.3	11				
38	<i>Litsea rotundifolia</i>		2.0					38	<i>Acacia confusa</i>	14.4	9				
39	<i>Litsea rotundifolia</i>		2.7					39	<i>Acacia confusa</i>	15.6	8				
40	<i>Litsea rotundifolia</i>		2.2					40	<i>Acacia confusa</i>	15.9	12.5				
41	<i>Litsea rotundifolia</i>		2.0					41	<i>Acacia confusa</i>	16.2	7				
42	<i>Litsea rotundifolia</i>		1.8					42	<i>Acacia confusa</i>	16.5	10				
43	<i>Litsea rotundifolia</i>		2.7					43	<i>Acacia confusa</i>	17.6	12				
44	<i>Litsea rotundifolia</i>		1.8					44	<i>Acacia confusa</i>	18.6	12				
45	<i>Litsea rotundifolia</i>		3.0					45	<i>Bridelia tomentosa</i>	5.8	6				
46	<i>Litsea rotundifolia</i>		1.6					46	<i>Desmos chinensis</i>	7.4	6				
47	<i>Litsea rotundifolia</i>		1.7					47	<i>Fagerlindia depauperata</i>	4.8	3.5				
48	<i>Litsea rotundifolia</i>		2.1					48	<i>Litsea rotundifolia</i>	4.0	4.5				
49	<i>Litsea rotundifolia</i>		4.2					49	<i>Litsea rotundifolia</i>	4.0	4.5				
50	<i>Litsea rotundifolia</i>		2.0					50	<i>Litsea rotundifolia</i>	4.1	4				
								51	<i>Litsea rotundifolia</i>	4.3	4.5				
								52	<i>Litsea rotundifolia</i>	4.3	4.5				
								53	<i>Litsea rotundifolia</i>	4.5	4.5				
								54	<i>Litsea rotundifolia</i>	4.5	5.5				
								55	<i>Mallotus paniculata</i>	7.5	7.5				
								56	<i>Mallotus paniculata</i>	10.2	8				
								57	<i>Microcos paniculata</i>	4.5	5				
								58	<i>Microcos paniculata</i>	4.9	6				
								59	<i>Microcos paniculata</i>	5.1	5				
								60	<i>Microcos paniculata</i>	6.8	6.8				
								61	<i>Syzygium hancei</i>	6.0	6				
								62	<i>Syzygium hancei</i>	10.2	8				

Note: DBH was not measured for the survey area 1.

Table 5.7 a-1-3) Description of trees: Zhuxiandong-3

Name of Plot: No.3 plot of Zhuhai(Bush)

Date: 29 November 2008

Survey area 1: radius 7.98 m
(Height > 1.3 m)

Survey area 2: radius 11.28 m
(DBH > 4 cm)

Survey area 3: radius 17.85 m
(DBH > 18 cm)

Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)
1	<i>Acacia confusa</i>		5.0	51	<i>Litsea rotundifolia</i>		2.3	1	<i>Acacia confusa</i>	5.0	5.7	1	<i>Acacia confusa</i>	20.4	9.5
2	<i>Acacia confusa</i>		5.0	52	<i>Litsea rotundifolia</i>		2.4	2	<i>Acacia confusa</i>	5.0	6.3				
3	<i>Acacia confusa</i>		7.0	53	<i>Litsea rotundifolia</i>		2.9	3	<i>Acacia confusa</i>	5.0	6.3				
4	<i>Archidendron clypearia</i>		1.4	54	<i>Litsea rotundifolia</i>		3.0	4	<i>Acacia confusa</i>	5.5	9.6				
5	<i>Archidendron clypearia</i>		1.5	55	<i>Machilus velutina</i>		1.7	5	<i>Acacia confusa</i>	6.0	7.8				
6	<i>Archidendron clypearia</i>		1.6	56	<i>Machilus velutina</i>		2.4	6	<i>Acacia confusa</i>	7.0	10.4				
7	<i>Archidendron clypearia</i>		2.0	57	<i>Machilus velutina</i>		2.7	7	<i>Acacia confusa</i>	9.0	15.6				
8	<i>Archidendron clypearia</i>		2.5	58	<i>Machilus velutina</i>		4.0	8	<i>Aporosa dioica</i>	4.0	8.2				
9	<i>Breynia fruticosa</i>		1.3	59	<i>Machilus velutina</i>		4.8	9	<i>Aporosa dioica</i>	6.0	8.3				
10	<i>Bridelia tomentosa</i>		2.6	60	<i>Machilus velutina</i>		5.0	10	<i>Aporosa dioica</i>	6.5	7.2				
11	<i>Clerodendrum canescens</i>		3.5	61	<i>Mallotus paniculata</i>		1.6	11	<i>Archidendron clypearia</i>	6.0	8.6				
12	<i>Clerodendrum fortunatum</i>		1.6	62	<i>Mallotus paniculata</i>		2.1	12	<i>Cratogeomum cochinchinense</i>	4.0	5.8				
13	<i>Cratogeomum cochinchinense</i>		2.0	63	<i>Mallotus paniculata</i>		2.3	13	<i>Eurya chinensis</i>	2.0	4.4				
14	<i>Cratogeomum cochinchinense</i>		3.1	64	<i>Mallotus paniculata</i>		2.4	14	<i>Ficus variolosa</i>	6.0	11.0				
15	<i>Cratogeomum cochinchinense</i>		3.3	65	<i>Melastoma sanguineum</i>		1.6	15	<i>Litsea glutinosa</i>	3.5	4.0				
16	<i>Eurya chinensis</i>		1.4	66	<i>Raphiolepis indica</i>		1.4	16	<i>Machilus velutina</i>	2.5	4.3				
17	<i>Eurya chinensis</i>		1.7	67	<i>Raphiolepis indica</i>		1.5	17	<i>Machilus velutina</i>	3.0	4.1				
18	<i>Eurya chinensis</i>		1.7	68	<i>Raphiolepis indica</i>		1.5	18	<i>Machilus velutina</i>	3.0	4.0				
19	<i>Eurya chinensis</i>		2.0	69	<i>Raphiolepis indica</i>		1.6	19	<i>Machilus velutina</i>	4.0	4.4				
20	<i>Eurya chinensis</i>		2.0	70	<i>Rhodomyrtus tomentosa</i>		1.5	20	<i>Machilus velutina</i>	4.0	4.1				
21	<i>Eurya chinensis</i>		2.0	71	<i>Rhodomyrtus tomentosa</i>		1.7	21	<i>Machilus velutina</i>	4.0	4.8				
22	<i>Eurya chinensis</i>		2.0	72	<i>Rhus succedanea</i>		1.5	22	<i>Machilus velutina</i>	4.5	4.4				
23	<i>Eurya chinensis</i>		2.3	73	<i>Sapium discolor</i>		3.0	23	<i>Machilus velutina</i>	4.5	5.6				
24	<i>Eurya chinensis</i>		2.4	74	<i>Sapium discolor</i>		3.5	24	<i>Machilus velutina</i>	5.0	9.0				
25	<i>Eurya chinensis</i>		2.4	75	<i>Sapium discolor</i>		4.0	25	<i>Machilus velutina</i>	5.0	4.5				
26	<i>Eurya chinensis</i>		2.5	76	<i>Sapium discolor</i>		5.5	26	<i>Machilus velutina</i>	8.0	13.5				
27	<i>Eurya chinensis</i>		2.5	77	<i>Sapium discolor</i>		6.0	27	<i>Machilus velutina</i>	8.0	5.2				
28	<i>Eurya chinensis</i>		2.5	78	<i>Schefflera octophylla</i>		2.8	28	<i>Sapium discolor</i>	3.5	4.5				
29	<i>Eurya chinensis</i>		2.7	79	<i>Schefflera octophylla</i>		3.0	29	<i>Sapium discolor</i>	4.0	4.9				
30	<i>Eurya chinensis</i>		2.8					30	<i>Sapium discolor</i>	4.0	5.2				
31	<i>Eurya chinensis</i>		2.8					31	<i>Sapium discolor</i>	5.5	10.5				
32	<i>Eurya chinensis</i>		3.0					32	<i>Sapium discolor</i>	6.0	17.0				
33	<i>Eurya chinensis</i>		3.0					33	<i>Sapium discolor</i>	6.0	10.1				
34	<i>Eurya chinensis</i>		3.0					34	<i>Schefflera octophylla</i>	3.0	5.8				
35	<i>Ficus variolosa</i>		1.6												
36	<i>Ficus variolosa</i>		2.0												
37	<i>Glochidion lanceolaris</i>		2.3												
38	<i>Ilex asprella</i>		1.3												
39	<i>Ilex asprella</i>		1.7												
40	<i>Ilex asprella</i>		2.8												
41	<i>Ilex asprella</i>		3.5												
42	<i>Litsea glutinosa</i>		1.6												
43	<i>Litsea glutinosa</i>		3.5												
44	<i>Litsea glutinosa</i>		3.5												
45	<i>Litsea rotundifolia</i>		1.5												
46	<i>Litsea rotundifolia</i>		1.5												
47	<i>Litsea rotundifolia</i>		1.6												
48	<i>Litsea rotundifolia</i>		2.0												
49	<i>Litsea rotundifolia</i>		2.0												
50	<i>Litsea rotundifolia</i>		2.3												

Note: DBH was not measured for the survey area 1.

Table 5.7 b) Description of trees: Bogor

Name of Plot: Dramaga Experimental Forest

Date: 16 December 2008

Survey area 1: radius 7.98 m
(Height > 1.3 m)

Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)
1	Hopea mengarawan	3.4	7.2	51	Hopea mengarawan	1	2.41	101	Hopea mengarawan	0.6	1.72
2	Hopea mengarawan	0.6	2.1	52	Hopea mengarawan	0.4	1.74	102	Hopea mengarawan	0.2	1.37
3	Hopea mengarawan	0.5	2.1	53	Hopea mengarawan	0.4	1.58	103	Hopea mengarawan	0.9	2.41
4	Hopea mengarawan	0.3	1.53	54	Hopea odorata	0.5	1.76	104	Hopea mengarawan	0.6	2.02
5	Hopea mengarawan	1.2	3.4	55	Parinarium	3.2	5.32	105	Hopea mengarawan	0.5	1.68
6	Hopea mengarawan	0.9	5.34	56	Hopea mengarawan	0.9	2.19	106	Hopea mengarawan	0.5	2.23
7	Hopea mengarawan	0.3	1.63	57	Hopea mengarawan	1	3.27	107	Hopea mengarawan	0.5	1.83
8	Hopea mengarawan	0.5	2.32	58	Khaya anthoteca	1.2	2.14	108	Hopea mengarawan	2.3	4.4
9	Hopea mengarawan	0.8	2.34	59	Hopea mengarawan	0.6	1.72	109	Strombosia javanica	1	2.59
10	Hopea mengarawan	0.3	2.4	60	Hopea mengarawan	1.1	2.34	110	Melia excelsa	0.5	4.73
11	Hopea mengarawan	4.7	7.9	61	Hopea mengarawan	0.6	1.81	111	Melia excelsa	2.5	4.73
12	Hopea mengarawan	0.4	1.98	62	Strombosia javanica	0.8	1.66	112	Hopea mengarawan	0.4	1.57
13	Hopea mengarawan	0.1	1.82	63	Strombosia javanica	0.6	1.66	113	Hopea mengarawan	23.5	24
14	Hopea mengarawan	1	2.83	64	Hopea mengarawan	0.6	1.95	114	Melia excelsa	2.3	2.4
15	Hopea mengarawan	0.4	1.36	65	Hopea mengarawan	0.9	2.35	115	Hopea mengarawan	0.7	2.1
16	Hopea mengarawan	4.3	7.95	66	Hopea mengarawan	0.6	1.95	115	Hopea mengarawan	0.7	1.5
17	Hopea mengarawan	1.1	2.94	67	Hopea mengarawan	0.5	1.5	116	Strombosia javanica	0.4	1.63
18	Hopea mengarawan	1	2.2	68	Hopea mengarawan	0.9	1.74	117	Hopea mengarawan	0.9	2.25
19	Hopea mengarawan	1.1	2.84	69	Eugenia grandiflora	0.5	1.47	118	Hopea mengarawan	0.4	1.36
20	Hopea mengarawan	0.6	2	70	Hopea mengarawan	1	2.56	119	Hopea mengarawan	0.3	1.71
21	Hopea mengarawan	1.4	2.52	71	Hopea mengarawan	21.7	28	120	Hopea mengarawan	1.3	2.05
22	Hopea mengarawan	0.6	1.43	72	Hopea mengarawan	5.6	8	121	Hopea mengarawan	0.5	1.71
23	Hopea mengarawan	1.4	2.7	73	Hopea mengarawan	1.8	4.79	122	Hopea mengarawan	1.4	3.08
24	Hopea mengarawan	1.4	3.09	74	Hopea mengarawan	2.3	4.73	123	Hopea mengarawan	4.2	8
25	Hopea mengarawan	0.7	1.96	75	Hopea mengarawan	0.4	1.74	124	Hopea mengarawan	33	40
26	Hopea mengarawan	0.6	1.64	76	Hopea mengarawan	0.4	1.78	125	Strombosia javanica	1	1.99
27	Hopea mengarawan	3.19	33	77	Hopea mengarawan	0.3	1.49	126	Hopea mengarawan	1.4	3.26
28	Hopea mengarawan	1.5	2.01	78	Hopea mengarawan	0.4	1.6	127	Hopea mengarawan	1.1	2.46
29	Hopea mengarawan	0.5	1.47	79	Hopea mengarawan	0.8	1.93	128	Hopea mengarawan	0.9	2.47
30	Hopea mengarawan	3.2	6.2	80	Hopea mengarawan	0.4	1.52	129	Hopea mengarawan	0.5	1.88
31	Hopea mengarawan	1	2.36	81	Hopea mengarawan	0.6	1.78	130	Hopea mengarawan	0.5	1.45
32	Hopea mengarawan	0.6	1.49	82	Hopea mengarawan	3.4	6.8	131	Hopea mengarawan	0.7	1.93
33	Hopea mengarawan	0.5	1.56	83	Hopea mengarawan	45.4	42	132	Hopea mengarawan	0.6	1.8
34	Hopea mengarawan	0.7	1.74	84	Hopea mengarawan	0.5	1.89	133	Hopea mengarawan	0.4	1.66
35	Hopea mengarawan	0.5	1.5	85	Hopea mengarawan	0.5	2.23	134	Hopea mengarawan	0.4	1.78
36	Hopea mengarawan	0.7	1.67	86	Hopea mengarawan	2.8	6.1	135	Hopea mengarawan	0.6	1.58
37	Hopea mengarawan	0.6	1.87	87	Hopea mengarawan	0.7	1.99	136	Dracontomelon dao	2.9	4.95
38	Hopea mengarawan	1.4	3.53	88	Hopea mengarawan	1.1	2.92	137	Hopea mengarawan	0.6	2.42
39	Hopea mengarawan	0.8	2.15	89	Hopea mengarawan	0.6	2.13	138	Hopea mengarawan	1.1	2.53
40	Hopea mengarawan	1.3	2.57	90	Hopea mengarawan	0.7	1.94	139	Hopea mengarawan	0.5	1.92
41	Hopea mengarawan	1.1	2.33	91	Hopea mengarawan	0.8	2.21	140	Hopea mengarawan	0.8	2.43
42	Hopea mengarawan	1.4	2.24	92	Hopea mengarawan	30.2	42	141	Hopea mengarawan	0.7	2.05
43	Hopea mengarawan	0.6	1.64	93	Hopea mengarawan	0.3	1.42	142	Hopea mengarawan	0.5	1.7
44	Hopea mengarawan	1	1.9	94	Hopea mengarawan	0.7	1.94	143	Hopea mengarawan	1.3	3.28
45	Hopea mengarawan	1.9	3.67	95	Hopea mengarawan	0.6	1.74	144	Hopea mengarawan	0.9	2.18
46	Hopea mengarawan	1.5	3.42	96	Hopea mengarawan	1.1	2.55	145	Hopea mengarawan	0.5	1.42
47	Hopea mengarawan	2.3	2.21	97	Hopea mengarawan	1.1	2.55	146	Hopea mengarawan	34.4	31
48	Hopea mengarawan	2.1	4.81	98	Hopea mengarawan	0.4	1.59	147	Hopea mengarawan	1.9	4.15
49	Hopea mengarawan	36	38	99	Hopea mengarawan	0.5	1.74	148	Hopea mengarawan	0.3	1.87
50	Hopea mengarawan	0.7	2.05	100	Hopea mengarawan	0.7	2.25	149	Hopea mengarawan	0.9	2.41

Table 5.7 b) Survey area 1(continued)

Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)
150	<i>Hopea mengarawan</i>	5.9	9	200	<i>Hopea mengarawan</i>	0.7	1.92	250	<i>Adinatera papunina</i>	0.7	2.24
151	<i>Hopea mengarawan</i>	19.6	28	201	<i>Hopea mengarawan</i>	0.9	1.86	251	<i>Hopea mengarawan</i>	1	2.68
152	<i>Hopea mengarawan</i>	1.3	2.56	202	<i>Hopea mengarawan</i>	0.9	2.57	252	<i>Hopea mengarawan</i>	0.7	2.13
153	<i>Hopea mengarawan</i>	1.3	2.6	203	<i>Hopea mengarawan</i>	0.9	2.73	253	<i>Hopea mengarawan</i>	0.5	1.5
154	<i>Hopea mengarawan</i>	0.6	1.76	204	<i>Strombosia javanica</i>	0.6	1.3	254	<i>Hopea mengarawan</i>	0.8	2.43
155	<i>Hopea mengarawan</i>	0.4	1.69	205	<i>Hopea mengarawan</i>	0.7	1.74	255	<i>Hopea mengarawan</i>	1.5	3.17
156	<i>Hopea mengarawan</i>	0.4	1.6	206	<i>Hopea mengarawan</i>	0.9	2.42	256	<i>Hopea mengarawan</i>	1.4	3.08
157	<i>Hopea mengarawan</i>	1.6	2.97	207	<i>Secrofia peltata</i>	3	2.08	257	<i>Hopea mengarawan</i>	1.3	3.24
158	<i>Hopea mengarawan</i>	1.2	3.14	208	<i>Hopea mengarawan</i>	0.7	1.93	258	<i>Hopea mengarawan</i>	1.4	3.41
159	<i>Hopea mengarawan</i>	0.8	2.48	209	<i>Hopea mengarawan</i>	2.9	4.94	259	<i>Hopea mengarawan</i>	0.7	2.92
160	<i>Hopea mengarawan</i>	0.7	2.15	210	<i>Hopea mengarawan</i>	0.4	1.48	260	<i>Hopea mengarawan</i>	0.6	1.67
161	<i>Hopea mengarawan</i>	0.4	1.55	211	<i>Hopea mengarawan</i>	0.6	2.17	261	<i>Hopea mengarawan</i>	0.7	1.72
162	<i>Hopea mengarawan</i>	0.6	1.95	212	<i>Hopea mengarawan</i>	0.9	2.15	262	<i>Hopea mengarawan</i>	0.5	1.41
163	<i>Hopea mengarawan</i>	1.6	3.81	213	<i>Strombosia javanica</i>	0.9	1.99	263	<i>Hopea mengarawan</i>	3.5	7.25
164	<i>Hopea mengarawan</i>	2.9	5.88	214	<i>Hopea mengarawan</i>	0.7	1.79				
165	<i>Hopea mengarawan</i>	0.9	2.12	215	<i>Hopea mengarawan</i>	0.5	1.8				
166	<i>Hopea mengarawan</i>	0.6	1.87	216	<i>Hopea mengarawan</i>	2.9	6				
167	<i>Hopea mengarawan</i>	0.7	1.84	217	<i>Hopea mengarawan</i>	0.6	1.84				
168	<i>Hopea mengarawan</i>	0.7	1.79	218	<i>Hopea mengarawan</i>	1	2.01				
169	<i>Hopea mengarawan</i>	0.9	2.18	219	<i>Hopea mengarawan</i>	0.6	1.52				
170	<i>Hopea mengarawan</i>	2.2	4.42	220	<i>Hopea mengarawan</i>	0.9	2.41				
171	<i>Melia excelsa</i>	2	2.76	221	<i>Hopea mengarawan</i>	0.3	1.43				
172	<i>Hopea mengarawan</i>	4	7.8	222	<i>Hopea mengarawan</i>	0.5	1.5				
173	<i>Hopea mengarawan</i>	1	2.39	223	<i>Hopea mengarawan</i>	0.7	1.61				
174	<i>Hopea mengarawan</i>	0.9	2.45	224	<i>Hopea mengarawan</i>	0.8	2.13				
175	<i>Hopea mengarawan</i>	4.5	7.5	225	<i>Hopea mengarawan</i>	0.5	1.78				
176	<i>Melia excelsa</i>	1.5	4.02	226	<i>Hopea mengarawan</i>	0.6	1.66				
177	<i>Hopea mengarawan</i>	3	5.09	227	<i>Hopea mengarawan</i>	0.8	1.88				
178	<i>Hopea mengarawan</i>	1.3	2.56	228	<i>Melia excelsa</i>	0.9	1.79				
179	<i>Hopea mengarawan</i>	0.9	2.5	229	<i>Hopea mengarawan</i>	0.5	1.9				
180	<i>Hopea mengarawan</i>	0.6	1.83	230	<i>Hopea mengarawan</i>	1.2	3.18				
181	<i>Eugenia cymosa</i>	0.5	1.49	231	<i>Hopea mengarawan</i>	0.5	1.78				
182	<i>Hopea mengarawan</i>	1.5	3.53	232	<i>Hopea mengarawan</i>	35.5	35				
183	<i>Hopea mengarawan</i>	0.6	1.84	233	<i>Hopea mengarawan</i>	1.3	3.27				
184	<i>Hopea mengarawan</i>	0.7	2.33	234	<i>Hopea mengarawan</i>	2	3.51				
185	<i>Hopea mengarawan</i>	0.6	1.91	235	<i>Hopea mengarawan</i>	0.7	1.99				
186	<i>Hopea mengarawan</i>	1.3	3.42	236	<i>Hopea mengarawan</i>	0.5	1.74				
187	<i>Hopea mengarawan</i>	0.8	2.26	237	<i>Hopea mengarawan</i>	0.6	1.75				
188	<i>Hopea mengarawan</i>	0.8	2.04	238	<i>Hopea mengarawan</i>	0.9	2.27				
189	<i>Hopea mengarawan</i>	0.5	1.4	239	<i>Melia excelsa</i>	2.7	5.02				
190	<i>Hopea mengarawan</i>	0.7	3.32	240	<i>Hopea mengarawan</i>	1	2.23				
191	<i>Hopea mengarawan</i>	0.8	3.41	241	<i>Hopea mengarawan</i>	0.7	2.26				
192	<i>Hopea mengarawan</i>	0.8	2.37	242	<i>Parinari corymbosum</i>	0.8	2.2				
193	<i>Hopea mengarawan</i>	2.3	6.5	243	<i>Hopea mengarawan</i>	0.6	1.91				
194	<i>Melia excelsa</i>	2.1	5.53	244	<i>Hopea mengarawan</i>	0.7	1.73				
195	<i>Melia excelsa</i>	1.2	3.08	245	<i>Hopea mengarawan</i>	0.7	2.21				
196	<i>Melia excelsa</i>	1.2	2.84	246	<i>Hopea mengarawan</i>	3.5	7				
197	<i>Hopea mengarawan</i>	0.8	2.14	247	<i>Hopea mengarawan</i>	4.9	8.5				
198	<i>Hopea mengarawan</i>	0.5	1.53	248	<i>Hopea mengarawan</i>	43.1	40				
199	<i>Eugenia cymosa</i>	0.6	1.8	249	<i>Hopea mengarawan</i>	1.2	2.81				

Table 5.7 b) (continued)

**Survey area 2: radius 11.28 m
(DBH > 4 cm)**

**Survey area 3: radius 17.85 m
(DBH > 18 cm)**

Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)
264	<i>Hopea mengarawan</i>	5.1	10	278	<i>Hopea odorata</i>	31.2	30
265	<i>Hopea mengarawan</i>	33.5	40	279	<i>Hopea mengarawan</i>	40.7	40
266	<i>Melia excelsa</i>	4	6.5	280	<i>Hopea mengarawan</i>	46	43
267	<i>Maesopsis emenii</i>	6	5.81	281	<i>Hopea mengarawan</i>	23.3	24
268	<i>Hopea mengarawan</i>	29	28	282	<i>Hopea mengarawan</i>	42	45
269	<i>Hopea mengarawan</i>	33	30	283	<i>Hopea mengarawan</i>	33	30
270	<i>Hopea mengarawan</i>	5	8.5	284	<i>Hopea mengarawan</i>	38	40
271	<i>Hopea mengarawan</i>	19.7	26	285	<i>Hopea mengarawan</i>	45	40
272	<i>Hopea mengarawan</i>	5	7.8	286	<i>Hopea mengarawan</i>	35	38
273	<i>Hopea mengarawan</i>	4	6.45	287	<i>Khaya grandifolium</i>	134	45
274	<i>Hopea mengarawan</i>	27.9	24	288	<i>Khaya grandifolium</i>	47	33
275	<i>Hopea mengarawan</i>	31.6	43	289	<i>Hopea mengarawan</i>	38	42
276	<i>Hopea mengarawan</i>	4.2	7.7	290	<i>Hopea mengarawan</i>	34.5	40
277	<i>Hopea mengarawan</i>	4.2	8.5	291	<i>Hopea mengarawan</i>	27	32
				292	<i>Hopea mengarawan</i>	37.5	35
				293	<i>Hopea mengarawan</i>	37	42
				294	<i>Hopea mengarawan</i>	36	40

Table 5.7 c-1) Description of trees: Los Banos-1

Name of plot: Mt. Makiling Long Term Ecological Research Site, Makiling Forest Reserve

Date: 8 April 2008

Survey area 1: radius 7.98 m (Height > 1.3 m)

Survey area 2: radius 11.28 m (DBH > 4 cm)

Survey area 3: radius 17.85 m (DBH > 18 cm)

Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)
1	<i>Celtis luzonica</i>	Cut		081*	<i>Nephelium ramboutan-ake</i>	Cut	Cut	109	<i>Turpinia ovalifolia</i>		
2	<i>Palaquium foxworthyi</i>	6.5	6.53	82	<i>Diplodiscus paniculatus</i>	14.5	12.53	110	<i>Pterocymbium tinctorium</i>		
3	<i>Chisocheton pentandrus ssp. pentandrus</i>	Cut		83	<i>Knema glomerata</i>	13.35	12.53	111	<i>Gompandra spp.</i>		
4	<i>Diplodiscus paniculatus</i>	Cut		84	<i>Diplodiscus paniculatus</i>	13.35	8.54	112	<i>Celtis luzonica</i>	38.4	15.25
5	<i>Celtis luzonica</i>	5.6	5.83	85	<i>Psychotria luzoniensis</i>	17.9	11.8	113	<i>Pterocymbium tinctorium</i>		
6	<i>Myristica philippinensis</i>	5.15	3.97	86	<i>Chisocheton pentandrus ssp. pentandrus</i>	28.8	14.31	114	<i>Dysoxylum arborescens</i>	29.1	19.72
7	<i>Celtis luzonica</i>	5.7	2.79	87	<i>Myristica philippinensis</i>	24.95	21.66	115	<i>Parashorea malaanonan</i>	42.6	24.33
8	<i>Parashorea malaanonan</i>			88	<i>Nephelium ramboutan-ake</i>	17.7	8.58	116	<i>Diplodiscus paniculatus</i>	59.8	20.03
9	<i>Diplodiscus paniculatus</i>	Dead	Dead	89	<i>Parashorea malaanonan</i>			117	<i>Litsea garciae</i>	Dead	
10	<i>Parashorea malaanonan</i>	4.15	1.95	90	<i>Nephelium ramboutan-ake</i>	Topped	Topped	118	<i>Parashorea malaanonan</i>	27.2	23.52
11	<i>Celtis luzonica</i>			91	<i>Lagerstroemia speciosa</i>	13.7	9.03	119	<i>Turpinia ovalifolia</i>		
12	<i>Dysoxylum arborescens</i>			92	<i>Palaquium foxworthyi</i>	6.55	6.19	120	<i>Parashorea malaanonan</i>	67.2	24.31
13	<i>Diospyrus philippinensis</i>	Cut		93	<i>Diplodiscus paniculatus</i>			121	<i>Solenospermum toxicum</i>		
14	<i>Casearia fuliginosa</i>	Cut		94	<i>Celtis luzonica</i>	10	10.21	122	<i>Knema glomerata</i>		
15	<i>Celtis luzonica</i>	5.95	4.04	95	<i>Alangium meyeri</i>	17.8	12.56	123	<i>Parashorea malaanonan</i>	40	29.22
16	<i>Drypetes maquilengensis</i>	4.05	3.35	96	<i>Pseudo pinanga</i>	15.6	12.73	124	<i>Kingiodendron alternifolium</i>		
17	<i>Dracontomelon dao</i>			97	<i>Parashorea malaanonan</i>	7.2	4.99	125	<i>Diplodiscus paniculatus</i>	21.35	13.27
18	<i>Drypetes maquilengensis</i>	3.8	2.35	98	<i>Pterocymbium tinctorium</i>	17.9	11.8	126	<i>Planchonhia spectabilis</i>	24.58	20.38
19	<i>Celtis luzonica</i>	5.62	3.69	99	<i>Nephelium ramboutan-ake</i>	Topped	Topped	127	<i>Celtis luzonica</i>	46.6	28.06
20	<i>Celtis luzonica</i>			100	<i>Litsea garciae</i>	Dead	Dead	128	<i>Celtis luzonica</i>	53	25.38
21	<i>Coffea arabica</i>	5.75	3.43	101	<i>Dendrocnide meyeniana</i>			129	<i>Diplodiscus paniculatus</i>		
22	<i>Diplodiscus paniculatus</i>			102	<i>Celtis luzonica</i>			130	<i>Sterculia montana</i>		
23	<i>Celtis luzonica</i>	10	12.07	103	<i>Cynometra ramiflora</i>						
24	<i>Celtis luzonica</i>			104	<i>Diplodiscus paniculatus</i>	26.1	10.59				
25	<i>Celtis luzonica</i>			105	<i>Leea philippinensis</i>	Dead	Dead				
26	<i>Knema glomerata</i>			106	<i>Celtis luzonica</i>	38	29.32				
27	<i>Drypetes maquilengensis</i>	Dead	Dead	107	<i>Celtis luzonica</i>						
28	<i>Neotrewia cumingii</i>	Dead	Dead	108	<i>Voacanga globosa</i>	Dead	Dead				
29	<i>Strombosia philippinensis</i>	4	2.6								
30	<i>Diplodiscus paniculatus</i>			Survey area 1 (continued)							
31	<i>Dimorphocalyx luzoniensis</i>			56	<i>Coffea arabica</i>						
32	<i>Celtis luzonica</i>	1.2	2.63	57	<i>Coffea arabica</i>						
33	<i>Radermachera pinnata ssp. pinnata</i>			58	<i>Drypetes maquilengensis</i>						
34	<i>Micromelum compressum</i>	3.7	2.58	59	<i>Neotrewia cumingii</i>						
35	<i>Drypetes maquilengensis</i>	4.58	4.12	60	<i>Coffea arabica</i>						
36	<i>Syzygium calubcob</i>	5.15	4.51	61	<i>Coffea arabica</i>						
37	<i>Strombosia philippinensis</i>			62	<i>Drypetes maquilengensis</i>						
38	<i>Celtis luzonica</i>			63	<i>Syzygium nitidum</i>						
39	<i>Parashorea malaanonan</i>	6.2	5.1	64	<i>Knema glomerata</i>	Cut	Cut				
40	<i>Ficus congesta</i>	Dead	Dead	65	<i>Dysoxylum arborescens</i>						
41	<i>Aglaia edulis</i>	4.9	4.49	66	<i>Celtis luzonica</i>						
42	<i>Alangium meyeri</i>	8.75	7.18	67	<i>Diplodiscus paniculatus</i>						
43	<i>Parashorea malaanonan</i>			68	<i>Camelia lanceolata</i>	9.9	5.42				
44	<i>Dysoxylum arborescens</i>			69	<i>Camelia lanceolata</i>	5.9	4.73				
45	<i>Celtis luzonica</i>	6.15	5.45	70	<i>Neolitsea vidalii</i>						
46	<i>Celtis luzonica</i>	3.8	4.37	71	<i>Celtis luzonica</i>	5.65	5.4				
47	<i>Dillenia philippinensis</i>	7.23	6.08	72	<i>Pisonia umbellifera</i>						
48	<i>Celtis luzonica</i>	3.6	3.05	73	<i>Celtis luzonica</i>						
49	<i>Parashorea malaanonan</i>	6.1	4.94	74	<i>Pseudo pinanga</i>	12.85	5.11				
50	<i>Alangium meyeri</i>	6.2	4.41	75	<i>Dysoxylum arborescens</i>						
51	<i>Aglaia edulis</i>	4.95	2.75	76	<i>Parashorea malaanonan</i>						
52	<i>Drypetes maquilengensis</i>			77	<i>Diplodiscus paniculatus</i>						
53	<i>Syzygium curranii</i>	50.5	14.45	78	<i>Pseudo pinanga</i>						
54	<i>Nephelium ramboutan-ake</i>	19.3	10.82	79	<i>Nephelium ramboutan-ake</i>						
55	<i>Pisonia umbellifera</i>	31.4	12.48	80	<i>Dysoxylum arborescens</i>						

Note: Dead/cut/overtopped trees were damaged by strong winds when a typhoon passed through the area last December 2004.

Table 5.7 c-3) Description of trees: Boneco LTER Site
 Name of plot: Boneco Long Term Ecological Research Site
Barangay Tinongdan, Itogon, Benguet
DENR-CAR, ERDS Experimental Forest

Date: 17 April 2008

Survey area 1: radius 7.98 m (Height > 1.3 m) Survey area 2: radius 11.28 m (DBH > 4 cm) Survey area 3: radius 17.85 m (DBH > 18 cm)

Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)
1	<i>Pinus kesiya</i>	34	19.47	10	<i>Pinus kesiya</i>	22.1	9.66	14	<i>Pinus kesiya</i>	28	15.67
2	<i>Pinus kesiya</i>	33	17.37	11	<i>Pinus kesiya</i>	50.02	21.86	15	<i>Pinus kesiya</i>	32.6	17.58
3	<i>Pinus kesiya</i>	34.4	19.3	12	<i>Pinus kesiya</i>	47.5	19.4	16	<i>Pinus kesiya</i>	23	13.32
4	<i>Pinus kesiya</i>	43.2	19.83	13	<i>Pinus kesiya</i>	25.2	18.57	17	<i>Pinus kesiya</i>	34.6	18.73
5	<i>Pinus kesiya</i>	17.5	9.58					18	<i>Pinus kesiya</i>	25.8	17.75
6	<i>Pinus kesiya</i>	40.1	16.23					19	<i>Pinus kesiya</i>	18.2	11.38
7	<i>Pinus kesiya</i>	29.3	19.08					20	<i>Pinus kesiya</i>	43.1	22.55
8	<i>Pinus kesiya</i>	37.5	11.7					21	<i>Pinus kesiya</i>	37.7	18.82
9	<i>Pinus kesiya</i>	24	15.49					22	<i>Pinus kesiya</i>	25.6	18.2
								23	<i>Pinus kesiya</i>	37.3	23.79
								24	<i>Pinus kesiya</i>	31.4	20.88
								25	<i>Pinus kesiya</i>	26.4	21.91
								26	<i>Pinus kesiya</i>	25	16.61
								27	<i>Pinus kesiya</i>	30.9	21.71
								28	<i>Pinus kesiya</i>	39	23.48
								29	<i>Pinus kesiya</i>	35	18.03
								30	<i>Pinus kesiya</i>	29.1	17.42
								31	<i>Pinus kesiya</i>	33.5	21.64

Table 5.8 a) Understory vegetation survey: Zhuxiandong

Name of Plot: No.1 plot of Zhuhai (Mixed forest of *Pinus elliottii* and *Acacia confusa*)

Date: 29 November 2008

Number of species: 20

Species Name	Dom.	Species Name	Dom.
<i>Litsea rotundifolia</i>	3	<i>Raphiolepis indica</i>	1
<i>Cratoxylum cochinchinensis</i>	2	<i>Desmos chinensis</i>	1
<i>Pinus elliottii</i>	2	<i>Eurya chinensis</i>	1
<i>Ilex asprella</i>	2	<i>Psychotria asiatica</i>	1
<i>Gardenia jasminoides</i>	2	<i>Archidendron clypearia</i>	1
<i>Fagerlindia depauperata</i>	1	<i>Eurya groffii</i>	1
<i>Ficus variolosa</i>	1	<i>Litsea glutinosa</i>	1
<i>Schefflera octophylla</i>	1	<i>Rhodomyrtus tomentosa</i>	1
<i>Ficus hirta</i>	1	<i>Rhus succedanea</i>	1
<i>Pinus massoniana</i>	1	<i>Zanthoxylum avicенаe</i>	1

Name of Plot: No.2 plot of Zhuhai (*Acacia confusa* forest)

Date: 19 December 2006

Number of species: 15

Species Name	Dom.	Species Name	Dom.
<i>Litsea rotundifolia</i>	3	<i>Ilex asprella</i>	1
<i>Mallotus paniculata</i>	2	<i>Syzygium hancei</i>	1
<i>Acacia confusa</i>	2	<i>Bridelia tomentosa</i>	1
<i>Archidendron clypearia</i>	2	<i>Clerodendrum fortunatum</i>	1
<i>Cratoxylum cochinchinense</i>	2	<i>Ficus hirta</i>	1
<i>Fagerlindia depauperata</i>	1	<i>Litsea glutinosa</i>	1
<i>Mallotus paniculata</i>	1	<i>Sterculia lanceata</i>	1
<i>Desmos chinensis</i>	1		

Name of Plot: No.3 plot of Zhuhai (Bush)

Date: 9 December 2006

Number of Species: 21

Species Name	Dom.	Species Name	Dom.
<i>Breynia fruticosa</i>	1	<i>Cratoxylum cochinchinense</i>	1
<i>Bridelia tomentosa</i>	1	<i>Litsea glutinosa</i>	1
<i>Clerodendrum canescens</i>	1	<i>Ilex asprella</i>	1
<i>Clerodendrum fortunatum</i>	1	<i>Mallotus paniculata</i>	1
<i>Glochidion lanceolaris</i>	1	<i>Raphiolepis indica</i>	1
<i>Melastoma sanguineum</i>	1	<i>Archidendron clypearia</i>	2
<i>Rhus succedanea</i>	1	<i>Sapium discolor</i>	2
<i>Ficus variolosa</i>	1	<i>Machilus velutina</i>	2
<i>Rhodomyrtus tomentosa</i>	1	<i>Litsea rotundifolia</i>	2
<i>Schefflera octophylla</i>	1	<i>Eurya chinensis</i>	2
<i>Acacia confusa</i>	1		

Table 5.8 b) Understory vegetation survey: BogorName of Plot: Dramaga Experimental Forest, BogorDate: 16 December 2008Number of Species: 21

Species Name	Dominance Scale
<i>Hopea mengrawan</i> Miq	4
<i>Strombosia javanica</i> Blume	2
<i>Calophyllum soulattri</i> Burm F	1
<i>Eugenia cymosa</i> Lamk	1
<i>Lansium domesticum</i> Jack	1
<i>Palaquium javense</i> Burck	1
<i>Shorea selanica</i> Blume	+
<i>Melia excelsa</i> Jack	1
<i>Hopea odorata</i> Roxb	1
<i>Parinari corymbosum</i> Blume	1
<i>Evodia aromatica</i> Blume	+
<i>Khaya grandifolia</i> C.DC	+
<i>Maesopsis emenii</i> Engl	+
<i>Zalaca edulis</i> Reinw	1
<i>Alpinia galanga</i> Sw	1
<i>Tetracera indica</i> L	+
<i>Driopteris irregularis</i> Pr	1
<i>Taenitis blanchoides</i> Sw	1
<i>Pleocnemia leuzeana</i>	1
<i>Elalis guinensis</i> Jack Pr	1
<i>Enterolobium cyclocarpum</i> Grisb	+

Table 5.8 c-1) Understory vegetation survey: Los Banos-1

Name of plot: Mt. Makiling LTER Site, Makiling Forest Reserve

Date: 8 April 2008

Number of Species: 43

Species Name	Dominance Scale	Species Name	Dominance Scale
<i>Callophyllum blancoi</i>	2	<i>Sterculia oblongata</i>	0
<i>Diospyrus pyrrocarpa</i>	0	<i>Pisonia umbellifera</i>	0
<i>Celtis luzonica</i>	3	<i>Planchonia spectabilis</i>	1
<i>Nephelium lappaceum</i> var. <i>pallens</i>	2	<i>Parashorea malaanonan</i>	0
<i>Aphanamixis polystachya</i>	1	<i>Dimorphocalyx luzoniensis</i>	0
<i>Palaquium foxworthyii</i>	0	<i>Macaranga bicolor</i>	1
<i>Neotrewia cumingii</i>	0	<i>Palaquium montanum</i>	1
<i>Alseodaphne malabonga</i>	0	<i>Turpinia ovalifolia</i> Elmer	1
<i>Garcinia dulcis</i>	0	<i>Aglaia edulis</i>	1
<i>Pterocymbium tinctorium</i>	0	<i>Chisocheiton pentandrus</i> spp. <i>pentandrus</i>	1
<i>Diplodiscus paniculatus</i>	0	<i>Evodia confuse</i>	1
<i>Alangium javanicum</i> var. <i>jaheri</i>	0	<i>Melanolepis multiglandulosa</i>	1
<i>Palaquium philippense</i>	0	<i>Dysoxylum arborescens</i>	1
<i>Coffee Coffea</i> spp.	0	<i>Artocarpus blancoi</i>	1
<i>Strombosia philippinensis</i>	0	<i>Gomphandra luzoniensis</i>	Few
<i>Planchonella nitida</i>	0	<i>Pouteria macrantha</i>	Few
<i>Drypetes maquilangensis</i>	1	<i>Securinega flexuosa</i>	1
<i>Syzygium curranii</i>	0	<i>Leea guineensis</i>	1
<i>Knema glomerata</i>	0	<i>Ahernia glandulosa</i>	1
<i>Beilschmiedia glomerata</i>	0	<i>Artocarpus rubrovenius</i>	1
<i>Litsea garciae</i>	0	<i>Claoxylon albicans</i>	1
<i>Syzygium xanthophyllum</i>	0		

Note: The typhoon Milenyo significantly opened up the canopy that allowed for recruitment of new species (regenerations)

Table 5.8 c-2) Understory vegetation survey: Los Banos-2

Name of plot: UP Quezon-Laguna Land Grant

Date: 7 April 2008

Number of Species:

Species Name	Dominance Scale
<i>Diospyrus phylosanthera</i> var. <i>philosanthera</i>	1
<i>Neonauclea puberola</i>	Lost
<i>Gnetum gnemon</i> var. <i>gnemon</i>	0
<i>Calophyllum blancoi</i>	+
<i>Nauclea undulate</i>	+
<i>Syzygium subcaudatum</i>	0
<i>Cryptocaria glauca</i>	+
<i>Xanthophyllum flavescens</i>	0
<i>Dimocarpus longan malesianus</i> var. <i>echinatus</i>	0
<i>Elaeocarpus calomala</i>	+
<i>Microcos stylocarpa</i>	0
<i>Ardisia clementis</i>	0
<i>Elaeocarpus candollei</i>	+
<i>Lithocarpus budii</i>	+
<i>Antidesma angustifolium</i>	+
<i>Symplocos acuminatissima</i>	+
<i>Glochidion album</i>	+
<i>Wikstroemia lanceolata</i>	+

Table 5.8 c-3) Understory vegetation survey: Boneco LTER Site

Name of plot: Boneco Long Term Ecological Research Site

Barangay Tinongdan, Itogon, Benguet

DENR-CAR, ERDS Experimental Forest

Date: 17 April 2008

Number of Species: 6

Species Name	Dominance Scale
<i>Pinus kesiya</i>	+
<i>Solanum verbascifolium</i>	2
<i>Chromolaena odorata</i>	1
<i>Cassia spp.</i>	3
Santana	+
<i>Centrosema</i>	

Figure 5.3 a-1) Japan: Banryu2



North



South



West



East

Figure 5.3 a-2) Japan: Iwami RFP



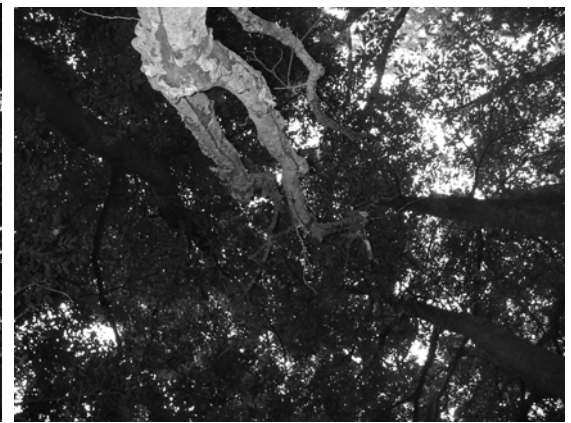
North



South



West



East

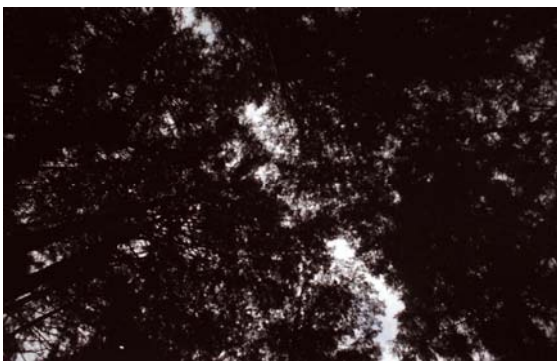
Figure 5.3 a-3) Japan: Ijira



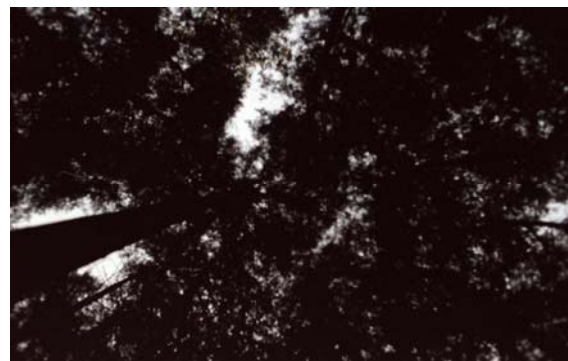
North



South



West

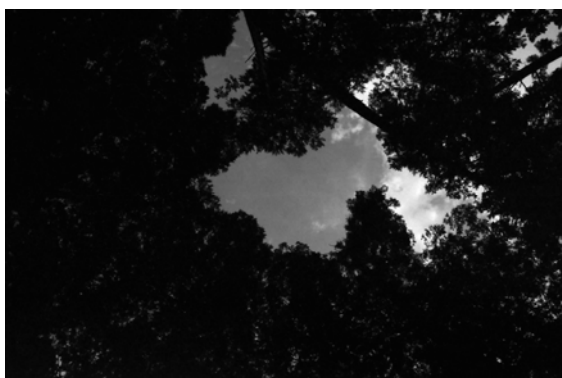


East

Figure 5.3 a-4) Japan: Yamato



North



South



West



East

Figure 5.3 b-1) Thailand: Vachiralongkorn Dam



North



South



West



East

Figure 5.3 b-1) Thailand: Vachiralongkorn Dam (Puye)



North



South



West



East

CHAPTER 6

Inland Aquatic Environment Monitoring

6. Inland Aquatic Environment Monitoring

6.1 Method

There were evidences over Northern Europe and North America that the lake water pH levels decreased in the 1970's compared to the levels in the 1930's and the damages noted as a results of this decrease, include decline of fish population. The cause of this pH decline is believed to be the deposition of acidic substances into lakes in excess amounts of their neutralization or buffering capacity. In general, inland bodies of water with low alkalinity and low electric conductivities are prone to be sensitive to acidification by acid deposition. Therefore it is important to conduct continuous monitoring of water bodies and aquatic fauna and so on.

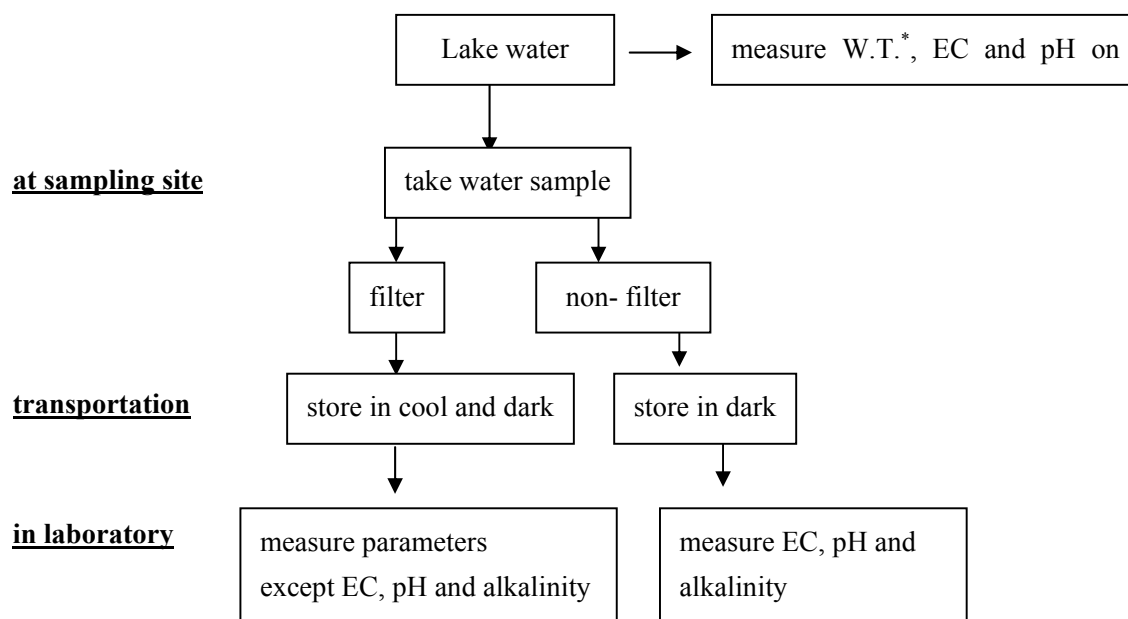
The participating countries of EANET are expected to carry out the monitoring of water temperature, pH, electric conductivity (EC), alkalinity and concentration of SO_4^{2-} , NO_3^- , Cl^- , NH_4^+ , Na^+ , K^+ , Ca^{2+} , and Mg^{2+} of targeted lakes/rivers at least four times a year (seasonally), and, transparency, water color, DOC (if impossible, COD), NO_2^- , PO_4^{3-} more than once a year while some other items are specified as optional parameters to be monitored.

6.1.1 Selection of Sampling Sites

According to the Manual for Monitoring Inland Aquatic Environment, the lakes chosen for monitoring should be harmonic type lakes, preferably with depths of approximately 10m or less, a water residence time of 1 year or less, an area of 1 ha or more, with low alkalinity and electric conductivity, minimal anthropogenic water pollution and no coverage of the surface with aquatic organisms. For the monitoring sites, it is desirable to locate in nature protection areas, and a minimum of human activities such as deforestation, and cultivation should be conducted or planned in the upstream area.

6.1.2 Field Operation

Surface water are sampled at one location at the center of the lake or river. In principle, measurement of pH and electric conductivity are conducted at the site before a more precise measurement is taken in the laboratory. Water samples for later analysis are kept in a tightly stoppered polyethylene bottle and stored in a cool dark place. The samples are shipped to the laboratory for chemical analysis. The water samples for analysis of chemical components other than alkalinity are filtered at the sampling site with a glass fiber filter. An example of treatment procedure is described in [Figure 6.1](#).



W.T.* : Water Temperature

Figure 6.1 Example of treatment procedure of lake water sample

6.1.3 Laboratory Operation

Collected samples are analyzed by analytical methods specified in [Table 6.1](#) immediately, otherwise they are stored in a refrigerator.

Table 6.1 Parameters and recommended analytical methods

Parameter	Analytical method
pH	pH meter (glass electrode)
Electric Conductivity	Conductivity meter
Alkalinity	Titration by burette or digital burette with pH meter
NH_4^+ , NO_3^- , NO_2^- , PO_4^{3-}	Ion Chromatography or spectrometry
K^+ , Mg^{2+} , Ca^{2+} , Na^+	Ion Chromatography or atomic absorption spectrometry
SO_4^{2-}	Ion Chromatography or turbidimetry
DOC	Combustion- infrared method or wet-oxidation method

6.1.4 Monitoring Sites

As described in [Table 6.2](#), 9 countries (China, Indonesia, Japan, Malaysia, Mongolia, Philippines, Russia, Thailand, and Vietnam) carried out inland aquatic environment monitoring. These monitoring sites were established for 11 lakes / reservoirs and 6 streams. Properties of these monitoring sites are shown on [Table 6.3](#). However many of these tables are not complete. The monitoring data of Gunung lake in Indonesia is added newly in this data report.

Table 6.2 Outline of Inland Aquatic Environment Monitoring

Country	Name of Lake	Nearest deposition monitoring	Start year	Interval
China	Jinyunshan Lake (Chongqing)	Rural	2001	4times/yr.
	Xiaoping Dam (Xiamen)	Remote	2001	4times/yr.
	Jiwozi River (Xi'an)	Remote	2001	4times/yr.
	Zhuxiandong Stream (Zhuhai)	Urban	2004	4times/yr.
Indonesia	Patenggang Lake	Rural	2001	4times/yr.
	Gunung Lake		2008	4times/yr
Japan	Ijira Lake	Rural/Ecolog.	2001	4times/yr.
	Banryu Lake	Urban/Ecolog.	2001	4times/yr.
Malaysia	Semenyih Dam	Urban	2005	4times/yr.
	Tembaling River	Remote	2007	4times/yr.
Mongolia	Terej River	Remote	2002	6times/yr.
Philippines	Pandin Lake (Los Banos)	Rural	2004	3times/yr.
	Ambulalakao Lake	Remote	2005	3times/yr.
Russia	Pereemnaya River (Listvyanka)	Rural	2004	4times/yr.
	Komarovka River (Primorskaya)	Rural	2005	5times/yr.

Thailand	Vachiralongkorn Dam	Remote	2002	4times/yr.
Viet Nam	Hoa Binh Reservoir	Rural	2001	4times/yr.

6.2 Results of Monitoring

The results of monitoring of each parameter are respectively shown in Table 6.4(1) to (10). Data within or exceeded the criteria of R1,R2 are judged “O” or “X” in Table 6.4(1) to (10) respectively according to the Manual for Monitoring Inland Aquatic Environment. The annual mean values of each monitoring sites are summarized in Table 6.4 (11).

As described in Table 6.4(11), the values of pH and alkalinity at Jinyunshan Lake in China were lowest. On the other hand, the values of alkalinity and Ca^{2+} at Pandin Lake in Philippines, Vachiralongkorn Dam in Thailand and Hoa Binh Reservoir in Viet Nam were relatively high. The concentrations of Na^+ and Cl^- at Banryu Lake in Japan were higher than other sites. It may be caused by sea salt.

R1 and R2 of the data at Xiaoping Dam, Jiwozi River and Zhuxiandong stream in China, Gunung Lake in Indonesia, Semenyih Dam in Malaysia, Terelj River in Mongolia and Ambulalakao Lake seemed to be out the allowable range. However the main reasons could not be identified.

The annual mean values of each parameter from 2000 to 2008 are shown in Table 6.5(1) to (18).

Table 6.3(1) Properties of lakes or streams

Lake Name: Jinyunshan Lake

Country	China
Location	Chongqing Prefecture
Altitude	-
Origin	Artificial lake
Area and shape	0.999ha
Shore line length	About 2km
Lake hydrologic type	Reservoir
Lake trophic type	Oligotrophic to Mesotrophic
Water depth	6-13m
Water volume	60,000m ³
Annual water level fluctuation	2-4m
Precipitation	About 1300mm/year
Solar radiation	-
Wind speed	-
Wind direction	-
Residence time of water	-
Lake utilization	For drink, Irrigation water
Watershed area	-
River (inflow)	-

- : no information

Table 6.3(2) Properties of lakes or streams

Lake Name: Xiaoping Dam

Country	China
Location	Xiaoping, Xiamen
Altitude	595m
Origin	Artificial lake
Area and shape	26.4ha ²
Shore line length	100m
Lake hydrologic type	Natural
Lake trophic type	Normal
Water depth	57.5m
Water volume	4,080,000m ³
Annual water level fluctuation	-
Precipitation	About 2,500mm/year
Solar radiation	-
Wind speed	-
Wind direction	-
Residence time of water	15days
Lake utilization	Water power
Watershed area	18.1km ²
River (flows into)	Dingxi lake

- : no information

Table 6.3(3) Properties of lakes or streams

Lake Name: Jiwozi River

Country	China
Location	Xi'an
Origin	Natural stream
River length	-
Drainage area	-
The mean height of the river basin	-
Annual air temperature	-
Precipitation	-
Solar radiation	-
Wind speed	-
Wind direction	-
Lake (flows into)	-

- : no information

Table 6.3(4) Properties of lakes or streams

Lake Name: Zhuxiandong Stream

Country	China
Location	Zhuhai
Origin	Natural stream
River length	-
Drainage area	-
The mean height of the river basin	-
Annual air temperature	-
Precipitation	-
Solar radiation	-
Wind speed	-
Wind direction	-
Lake (flows into)	-

- : no information

The monitoring was conducted from 2001 to 2003 at Zhuxiandong reservoir and it was selected a new site, Zhuxiandong Stream for inland water monitoring in 2004, which is located in the upstream of Zhuxiandong Reservoir. Therefore continuous monitoring has been conducted from 2004 at Zhuxiandong Stream.

Table 6.3(5) Properties of lakes or streams

Lake Name: Patenggang Lake

Country	Indonesia
Location	Bandung
Altitude	-
Origin	Natural lake
Area and shape	6,000 km ²
Shore line length	-
Lake hydrologic type	-
Lake trophic type	-
Water depth	-
Water volume	4.98 x 10 ⁶ m ³
Annual water level fluctuation	1.42 m - 4.20 m
Precipitation	2357mm/yr ^{*1} , 2686mm/yr ^{*2}
Solar radiation	-
Wind speed	0.8-1.0(mean;0.9)m/s ^{*1} , 3-7(mean;5.2)m/s ^{*2}
Wind direction	SW ^{*1} , W, E ^{*2}
Residence time of water	-
Lake utilization	-
Watershed area	-
River (inflow)	-

- : no information

*1: EMC(Serpong)2007

*2: BMG(Jakarta)2007

Table 6.3(6) Properties of lakes or streams

Lake Name: Gunung Lake

Country	Indonesia
Location	Skabumi, West Java
Altitude	950 m
Origin	Natural lake
Area and shape	95km ²
Shore line length	-
Lake hydrologic type	Reservoir
Lake trophic type	Eutrophic
Water depth	Ave 2.75 m (< 10 m)
Water volume	-
Annual water level fluctuation	-
Precipitation	1611 – 4311 mm/year
Solar radiation	-
Wind speed	-
Wind direction	-
Residence time of water	-
Lake utilization	Irrigation
Watershed area	1200 km ²
River (inflow)	-

- : no information

Table 6.3(7) Properties of lakes or streams

Lake Name: Ijira Lake

Country	Japan
Location	Gifu prefecture
Altitude	110m
Origin	Artificial (dam-made lake)
Area and shape	0.1km ²
Shore line length	1.8km
Lake hydrologic type	Reservoir
Lake trophic type	Oligotrophic or mesotrophic
Water depth	Ave. 5.4m (Max 10.9m)
Water volume	0.00054km ³
Annual water level fluctuation	0-0.74m (Ave. 0.22m)
Precipitation	1,802.5mm/year (2008)*1
Solar radiation	Daylight time Ave.205hr/month *1
Wind speed	2.0-3.0 (Ave. 2.3) m/s*1
Wind direction	SSW(summer), NW(winter) *1
Residence time of water	23 days
Lake utilization	Irrigation and fishing
Watershed area	5.4 km ²
River (inflow)	Ijira River, Takabora River

*1 Gifu Local Meteorological Observatory (2008)

Table 6.3(8) Properties of lakes or streams

Lake Name: Banryu Lake

Country	Japan
Location	Shimane prefecture
Altitude	25m
Origin	Natural damming lake
Area and shape	0.13km ²
Shore line length	5.7km
Lake hydrologic type	Reservoir
Lake trophic type	Mesotrophic
Water depth	Ave. 8-8.5m
Water volume	Unknown (Max 500,000m ³)
Annual water level fluctuation	0-1.1 m
Precipitation	1,278mm/year *1
Solar radiation	Daylight time Ave.154hr/month*2
Wind speed	2.0-3.8(Ave. 2.8) m/s*1
Wind direction	S *1
Residence time of water	222days(2004)
Lake utilization	Irrigation and sightseeing
Watershed area	0.73 km ²
River (inflow)	none

- : no information

*1 Lake Banryu national acid rain monitoring station (2008)

*2 Masuda AMeDAS of Japan Meteorological Agency (2008)

Table 6.3(9) Properties of lakes or streams

Lake Name: Semenyih Dam

Country	Malaysia
Location	
Altitude	30m
Origin	Dam
Area and shape	3.6 km ²
Shore line length	800m
Lake hydrologic type	Reservoir
Lake trophic type	-
Water depth	Mean: 110 m
Water volume	-
Annual water level fluctuation	-
Precipitation	-
Solar radiation	-
Wind speed	-
Wind direction	-
Residence time of water	More than 1 year
Lake utilization	-
Watershed area	-
River (inflow)	-

- : no information

Table 6.3(10) Properties of lakes or streams

Lake Name: Tembaling River

Country	Malaysia
Location	Danum Valley, Sabah
Latitude and longitude	04° 57' N, 117° 48' E
Altitude	-
Origin	Natural stream
Water depth	-
Water Volume	-
Watershed area	-
River length	-
Drainage area	-
The mean height of the river basin	-
Annual air temperature	-
Precipitation	-
Solar radiation	-
Wind speed	-
Wind direction	-
River (meet in 10m from sampling point)	Segama river

- : no information

Table 6.3(11) Properties of lakes or streams

Lake Name: Terelj River

Country	Mongolia
Location	Terelj
Origin	Natural stream
River length	65km
Drainage area	1220km ²
The mean height of the river basin	-
Annual air temperature	-
Precipitation	-
Solar radiation	-
Wind speed	-
Wind direction	-
Lake (flows into)	-

- : no information

Table 6.3(12) Properties of lakes or streams

Lake Name: Pandin Lake

Country	Philippines
Location	San Pablo City
Altitude	200m
Origin	Natural lake
Area and shape	0.25km ²
Shore line length	-
Lake hydrologic type	-
Lake trophic type	-
Water depth	63m
Water volume	-
Annual water level fluctuation	-
Precipitation	-
Solar radiation	-
Wind speed	-
Wind direction	-
Residence time of water	-
Lake utilization	-
Watershed area	-
River (inflow)	-

- : no information

Table 6.3(13) Properties of lakes or streams

Lake Name: Ambulalakao Lake

Country	Philippines
Location	-
Altitude	-
Origin	Natural lake
Area and shape	6.087km ²
Shore line length	-
Lake hydrologic type	-
Lake trophic type	-
Water depth	4.03m
Water volume	
Annual water level fluctuation	-
Precipitation	-
Solar radiation	-
Wind speed	-
Wind direction	-
Residence time of water	-
Lake utilization	-
Watershed area	-
River (inflow)	-

- : no information

Table 6.3(14) Properties of lakes or stream

Stream Name: Pereemnaya River

Country	Russian Federation
Location	Southern Baikal
Origin	Natural stream
River length	42km
Drainage area	About 360km ²
The mean height of the river basin	1,260m
Annual air temperature	-3.4°C
Precipitation	About 800mm/year
Solar radiation	-
Wind speed	-
Wind direction	-
Lake (flows into)	Kholodnoe lake

- : no information

Table 6.3(15) Properties of lakes or stream

Stream Name: Komarovka River

Country	Russian Federation
Location	Primorskli Kray, Ussuriyskii district, near Kamenushka settlement
Latitude	43°42'N
Altitude	386m
Origin	Natural stream
Water depth	Mean 0.8m Maximum 1.5m
Water discharge	0.14m ³ /sec
Watershed area	About 1490km ²
River length	66 km
Drainage area	-
The mean height of the river basin	-
Annual air temperature	-
Precipitation	737mm/year (2005)
Solar radiation	-
Wind speed	1.1-2.2 (mean-1.7) m/s(2005)
Wind direction	E, NE
Lake (flows into)	River Razdolnaya, Amurskiy Bay

- : no information

Table 6.3(16) Properties of lakes or streams

Lake Name: Vachiralongkorn Dam

Country	Thailand
Location	Kanchanaburi Province
Altitude	170m
Origin	Artificial (Dam made lake)
Area and shape	3,720 km ²
Shore line length	-
Lake hydrologic type	Reservoir
Lake trophic type	-
Water depth	Avg. 149.08 m (max:153.21 m)
Water volume	6.7276 km ³
Annual water level fluctuation	0-18 m (Avg. 9m)
Precipitation	1704.2mm(2007)
Solar radiation	-
Wind speed	-
Wind direction	-
Residence time of water	165 days
Lake utilization	Irrigation and Electric power
Watershed area	3,720 km ²
River (inflow)	

- : no information

Table 6.3(17) Properties of lakes or streams

Lake Name: Hoa Binh Reservoir

Country	Viet Nam
Location	Hoa Binh Provinces
Altitude	23m
Origin	Artificial (dam-made lake)
Area and shape	208 km ² -25km ² (*)
Shore line length	208km-16.7km(*)
Lake hydrologic type	Reservoir
Lake trophic type	Mesotrophic
Water depth	60m (max: 120m)
Water volume	9.45 km ³ -2.5 km ³ (*)
Annual water level fluctuation	80m- 120m (Ave.100m)
Precipitation	-
Solar radiation	-
Wind speed	-
Wind direction	-
Residence time of water	365 days
Lake utilization	electric power and flood control
Watershed area	51,700 km ² -13,700km ² (*)
River (inflow)	Da River

- : no information

(*)The second values are in affected area of reservoir.

Table 6.4(1) Result of Inland Aquatic Environment Monitoring

Duration: 2008.1.-2008.12.

Country: China

Lake Name: See below

Site	Sampling Date	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once /year								
		Temp. (°C)	pH	EC (mS/m)	Alkalinity (meq/L)	SO ₄ ²⁻ (mg/L)	NO ₃ (mg/L)	Cl ⁻ (mg/L)	NH ₄ ⁺ (mg/L)	Na ⁺ (mg/L)	K ⁺ (mg/L)	Ca ²⁺ (mg/L)	Mg ²⁺ (mg/L)	PO ₄ ³⁻ (mg/l)	NO ₂ ⁻ (mg/l)	DOC (mg/l)	Transparency (m)	COD (mg/l)	Mn ²⁺ (mg/l)	Chl-a (µg/l)	Water color
Chongqing -Jinyunshan Lake	27-Mar-08	19.0	6.38	12.3	0.089	34.15	11.59	3.36	0.08	3.05	1.87	11.14	3.79	-	-	-	3.3	-	-	-	
	24-Jun-08	21.0	4.90	13.8	-	37.05	17.10	2.59	0.42	2.80	2.54	13.44	4.51	-	-	-	4.8	-	-	-	
	24-Sep-08	28.0	5.76	10.4	0.020	28.33	10.62	2.32	0.04	1.95	1.69	9.86	2.86	-	-	-	5.1	-	-	-	
	20-Dec-08	11.0	6.27	12.3	0.090	33.50	11.80	2.80	0.10	2.80	1.80	10.90	3.90	*1	*1	-	1.8	2.9	-	-	
	mean ^{*2}	-	5.42	12.2	0.066	33.26	12.78	2.77	0.16	2.65	1.98	11.34	3.77	*1	*1	-	3.7	2.9	-	-	
Xiamen -Xiaoping Dam	05-Mar-08	14.5	6.95	5.72	0.165	4.42	2.52	13.79	0.23	5.58	2.42	3.14	0.51	-	-	-	-	2.77	-	-	
	04-Jun-08	24.1	6.50	5.69	0.090	5.64	3.70	15.40	0.02	4.34	2.67	4.26	0.59	-	-	-	-	2.04	-	-	
	04-Sep-08	26.6	6.64	5.25	0.083	3.92	2.79	8.49	0.13	4.17	2.18	3.86	0.53	-	-	-	-	1.99	-	-	
	03-Dec-08	23.4	7.02	5.98	0.158	3.98	2.84	14.12	0.18	5.79	2.59	4.36	0.61	0.01	0.007	-	0.8	0.93	-	-	
	mean ^{*2}	-	6.73	5.66	0.124	4.49	2.67	12.95	0.14	4.97	2.46	3.90	0.56	0.01	0.007	-	-	1.93	-	-	
Xi'an -Jiwozi River	08-Apr-08	4.00	7.16	9.02	0.230	13.71	0.94	1.94	0.00	0.17	1.46	10.69	0.83	-	-	-	-	-	-	-	
	18-Jun-08	9.5	7.10	9.17	0.250	16.29	3.45	1.66	0.00	2.30	1.06	11.17	1.53	-	-	-	-	-	-	-	
	25-Jul-08	13.0	7.46	7.66	0.240	12.80	2.61	1.25	0.34	1.35	0.79	7.50	1.00	-	-	-	-	-	-	-	
	07-Nov-08	4.50	6.77	7.84	0.270	12.87	0.57	1.22	0.85	1.89	0.91	8.17	1.46	<0.01*1	<0.003*1	-	-	2.5	-	-	1.0 ^{*3}
	mean ^{*2}	-	7.05	8.42	0.248	13.92	1.89	1.51	0.30	1.43	1.05	9.38	1.20	<0.01*1	<0.003*1	-	-	2.5	-	-	-
Zhuhai -Zhuxiangdong stream	08-Jan-08	15.5	7.40	7.45	0.180	1.90	0.43	4.59	0.05	*4	*4	*4	*4	*1	*1	-	1.4	1.1	-	-	
	08-Apr-08	24.0	7.11	8.54	0.160	3.57	1.98	4.93	0.05	8.08	1.28	5.38	1.82	*1	*1	-	1.2	1.2	-	-	
	08-Jul-08	25.0	7.10	6.49	0.150	3.60	5.19	4.96	0.03	5.38	1.26	3.18	1.44	*1	*1	-	1.1	1.2	-	-	
	08-Oct-08	23.0	7.18	7.85	0.170	2.74	1.82	5.11	0.06	7.03	1.40	4.65	2.01	*1	*1	-	1.3	1.0	-	-	
	mean ^{*2}	-	7.18	7.58	0.165	2.95	2.36	4.90	0.05	6.83	1.31	4.40	1.76	*1	*1	-	1.3	1.1	-	-	

note

-:Items were not analyzed

*1:Items were not detected.

*2: Mean of pH takes an average of hydrogen ion.

*3: Dilution Coefficient method (If the sample water is diluted with one same volume of distilled water, the recorded value is 1.)

*4: Abnormal data

		Anion	Cation	R1	Judge ^{*3}
Chongqing -Jinyunshan Lake	27-Mar-08	1081.7	1052.9	-1.3	O
	24-Jun-08	1120.2	1264.2	6.0	O
	24-Sep-08	846.5	859.2	0.7	O
	20-Dec-08	1056.8	1038.5	-0.9	O
	mean ^{*2}	-	-	-	-
Xiamen -Xiaoping	05-Mar-08	686.9	519.8	-13.8	X
	04-Jun-08	701.7	519.3	-14.9	X
	04-Sep-08	448.7	480.9	3.5	O
	03-Dec-08	684.9	596.0	-6.9	O
Xi'an -Jiwozi	08-Apr-08	585.2	646.4	5.0	O
	18-Jun-08	691.6	810.0	7.9	O
	25-Jul-08	583.9	554.6	-2.6	O
	07-Nov-08	581.4	680.7	7.9	O
Zhuhai -Zhuxiangdong stream	08-Jan-08	356.0	*6	*6	*6
	08-Apr-08	405.3	805.2	33.0	X
	08-Jul-08	448.6	545.1	9.7	X
	08-Oct-08	400.5	742.3	29.9	X

	Acalc	R2	Judge ^{*3}
Chongqing -Jinyunshan Lake	14.2	7.1	O
	16.2	8.0	O
	11.5	5.2	O
	13.9	6.2	O
	mean ^{*2}	-	-
Xiamen -Xiaoping	7.7	14.5	X
	8.1	17.3	X
	5.9	6.1	O
	8.1	15.2	O
Xi'an -Jiwozi	7.7	-7.9	O
	9.3	0.6	O
	6.9	-5.3	O
	7.3	-3.3	O
Zhuhai -Zhuxiangdong stream	*6	*6	*6
	7.0	-9.7	X
	5.9	-4.4	O
	6.6	-8.6	O

*5: Concerning "X" judging, there are some possible reason, but it's difficult to specify the main reason.

*6:R1 and R2 can not be calculated because some parameters were not analyzed.

Table 6.4(2) Result of Inland Aquatic Environment Monitoring

Duration: 2008.3.-2008.9.

Country: Indonesia

Lake Name: See below

Site	Sampling Date	Temp. (°C)	pH	EC (mS/m)	Alkalinity (meq/L)	SO ₄ ²⁻ (mg/L)	NO ₃ ⁻ (mg/L)	Cl ⁻ (mg/L)	NH ₄ ⁺ (mg/L)	Na ⁺ (mg/L)	K ⁺ (mg/L)	Ca ²⁺ (mg/L)	Mg ²⁺ (mg/L)	PO ₄ ³⁻ (mg/L)	NO ₂ ⁻ (mg/L)	DOC (mg/L)	Transparency (m)
Pattengang Lake	4-Mar-08	19.0	6.28	5.20	0.330	7.10	0.18	2.30	*2	2.85	1.63	4.00	1.95	0.253	0.010	7.4	0.8
	18-Apr-08	21.0	7.86	5.92	0.369	3.77	0.01	3.42	0.01	3.80	1.90	4.20	2.60	-	-	-	1.1
	15-Jun-08	21.3	7.30	7.40	0.494	11.10	0.06	2.00	0.17	3.50	1.29	7.60	2.50	0.151	0.047	16.8	0.9
	10-Sep-08	20.1	7.00	7.20	0.598	9.60	0.01	1.00	*2	1.20	0.32	8.90	2.50	-	*2	6.3	0.8
	mean ^{*1}	-	6.76	6.43	0.448	7.89	0.07	2.18	0.05	2.84	1.29	6.18	2.39	0.202	0.019	10.2	0.9
Gunung Lake	5-Mar-08	24.0	7.71	6.21	0.350	7.00	*2	1.90	0.43	2.10	0.22	4.80	1.71	-	-	-	0.8
	22-Apr-08	23.6	6.25	5.70	0.388	6.40	0.01	2.45	0.10	2.10	1.10	5.47	1.96	0.013	0.013	5.3	1.6
	19-Jun-08	21.3	6.90	5.40	0.564	2.47	0.04	1.00	0.42	1.90	0.30	5.90	1.90	-	-	-	-
	16-Sep-08	21.0	7.50	6.30	0.450	6.48	*2	2.70	1.32	2.86	1.20	4.20	1.90	0.067	*2	8.0	0.6
	mean ^{*1}	-	6.73	5.90	0.438	5.59	0.03	2.01	0.57	2.24	0.71	5.09	1.87	0.040	0.007	6.7	1.1

note

--:Items were not analyzed

*1 : Mean of pH takes an average of hydrogen ion

*2:Items were not detected.

Annual precipitation is 2357mm/year in 2007 (Meteorological Statistics : BMG Jakarta)

Annual precipitation is 2686mm/year in 2007(Meteorological Statistics : EMC (Serpong))

		Anion	Cation	R1	Judge	Acalc	R2	Judge*3
Pattengang Lake	4-Mar-08	553.8	526.1	-2.6	O	6.2	8.9	O
	18-Oct-08	544.1	637.3	7.9	O	6.6	5.4	O
	5-Jun-08	788.3	770.1	-1.2	O	8.9	9.2	X
	10-Sep-08	826.2	710.2	-7.6	O	8.6	8.6	O
Gunung Lake	5-Mar-08	549.3	477.1	-7.0	O	6.5	2.6	O
	22-Apr-08	591.2	554.2	-3.2	O	6.2	4.3	O
	19-Jun-08	644.3	541.1	-8.7	X	6.6	10.1	X
	16-Sep-08	663.2	521.0	-12.0	X	6.3	-0.1	O

*3:Concerning "X" judging, it was not able to specify the main reasons

Table 6.4(3) Result of Inland Aquatic Environment Monitoring

Duration: 2008.5.-2009.2.

Country: Japan

Lake Name Ijira Lake

Site	Sampling Date	Mandatory Parameters : 4times/year											
		Temp. (degreeC)	pH	EC (mS/m)	Alkalinity (meq/L)	SO ₄ ²⁻ (mg/L)	NO ₃ ⁻ (mg/L)	Cl ⁻ (mg/L)	NH ₄ ⁺ (mg/L)	Na ⁺ (mg/L)	K ⁺ (mg/L)	Ca ²⁺ (mg/L)	Mg ²⁺ (mg/L)
Center (Surface)	13-May-08	18.0	7.14	4.33	0.173	5.64	1.70	2.25	0.05	2.10	0.27	3.10	1.44
	29-Jul-08	28.2	8.36	3.93	0.171	4.83	1.05	2.17	0.01	2.08	0.28	2.73	1.35
	04-Nov-08	16.1	6.96	4.41	0.183	4.92	2.72	1.98	0.07	2.06	0.33	3.35	1.50
	09-Feb-09	7.1	7.13	4.76	0.205	6.08	1.66	2.24	0.02	2.18	0.26	3.80	1.50
	mean	-	7.19	4.36	0.183	5.37	1.78	2.16	0.04	2.10	0.28	3.24	1.45
Center (near bottom)	13-May-08	12.9	6.76	4.66	0.199	5.59	1.99	2.29	0.09	2.12	0.30	3.46	1.54
	29-Jul-08	18.1	6.63	4.21	0.186	4.93	1.23	2.19	0.06	2.08	0.32	3.00	1.40
	04-Nov-08	16.1	6.96	4.43	0.183	4.95	2.67	1.99	0.07	2.08	0.33	3.33	1.50
	09-Feb-09	6.9	7.12	4.79	0.205	6.08	1.66	2.25	0.02	2.18	0.26	3.82	1.50
	mean	-	6.83	4.52	0.193	5.38	1.89	2.18	0.06	2.11	0.30	3.40	1.49
Ijira River (Input)	13-May-08	14.9	7.01	4.58	0.163	6.89	2.04	2.19	<0.01*1	2.21	0.29	3.16	1.57
	29-Jul-08	22.3	6.90	4.63	0.176	6.37	2.24	2.21	<0.01*1	2.30	0.32	3.33	1.59
	04-Nov-08	14.8	7.00	4.46	0.155	6.33	2.37	2.15	<0.01*1	2.15	0.29	3.16	1.56
	09-Feb-09	7.0	7.07	4.68	0.145	7.53	2.51	2.15	<0.01*1	2.14	0.22	3.27	1.62
	mean*2	-	6.99	4.59	0.160	6.78	2.29	2.17	<0.01*1	2.20	0.28	3.23	1.59
Takabora River (Input)	13-May-08	13.4	6.87	4.09	0.154	5.40	1.70	2.34	<0.01*1	2.47	0.23	2.19	1.55
	29-Jul-08	20.4	6.80	4.12	0.163	4.78	2.13	2.37	<0.01*1	2.58	0.28	2.23	1.58
	04-Nov-08	13.9	6.83	3.88	0.136	4.93	2.01	2.26	<0.01*1	2.39	0.25	2.07	1.49
	09-Feb-09	6.6	6.85	3.99	0.134	5.39	2.12	2.28	<0.01*1	2.35	0.19	2.11	1.53
	mean	-	6.84	4.02	0.147	5.13	1.99	2.31	<0.01*1	2.45	0.24	2.15	1.54
Ijira River (Output)	13-May-08	19.4	7.17	4.44	0.184	5.65	1.65	2.29	0.07	2.13	0.29	3.32	1.41
	29-Jul-08	25.3	8.70	4.95	0.275	5.00	0.51	2.18	0.01	2.15	0.34	4.86	1.29
	04-Nov-08	19.7	7.21	4.66	0.218	4.97	2.09	2.02	0.04	2.09	0.34	3.95	1.46
	09-Feb-09	7.3	7.12	4.75	0.201	6.06	1.60	2.27	0.02	2.17	0.26	3.83	1.46
	mean	-	7.29	4.61	0.201	5.56	1.78	2.19	0.04	2.13	0.30	3.70	1.45
Discharge	13-May-08	14.2	7.09	4.39	0.174	5.52	2.23	2.26	0.10	2.06	0.29	3.15	1.47
	29-Jul-08	19.8	6.81	4.09	0.175	4.90	1.39	2.14	0.12	2.03	0.29	2.89	1.36
	04-Nov-08	15.8	7.04	4.43	0.182	4.98	2.74	1.99	0.05	2.07	0.33	3.35	1.50
	09-Feb-09	6.6	7.15	4.78	0.205	6.08	1.68	2.25	0.02	2.18	0.27	3.82	1.50
	mean	-	7.01	4.42	0.184	5.37	2.01	2.16	0.07	2.09	0.29	3.30	1.46

note

-:Items were not analyzed

*1:less than determination limits

*2:average of three times a year (exclude Ijira River(Input) on July from the calculation).

pick up 2 samples on site and measure three times/sample.

Mean of pH takes an average of hydrogen ion.

When the value is under detection limits, it considers "0". When it is over detection limits and under determination limits,

it considers half determination limits. And using it, it was calculated the average and R1R2".

Annual precipitation is 1802.5mm/year in 2008 (Gifu pref. Meteorological observatory)

There is no running water at Ijira River(Input) on July and the sampling was conducted from the pool of the river.

Site	Sampling Date	Mandatory Parameters : Once/year					
		PO ₄ ³⁻ (mg/L)	NO ₂ ⁻ (mg/L)	DOC (mg/L)	Transparency (m)	Water color	Chl-a (µg/L)
Center (Surface)	13-May-08	<0.1*1	0.01	0.8	3.3	clear	1.7
	29-Jul-08	-	0.01	-	2.4	clear	4.5
	04-Nov-08	-	0.01	-	2.6	clear	10.9
	09-Feb-09	-	<0.01*1	-	2.6	clear	8.0
	mean	<0.1*1	<0.01*1	0.8	2.7	-	6.3
Center (near bottom)	13-May-08	<0.1*1	0.01	0.9	-	clear	8.6
	39658.00	-	0.01	-	-	clear	6.4
	04-Nov-08	-	0.01	-	-	clear	13.1
	09-Feb-09	-	<0.01*1	-	-	clear	9.3
	mean	<0.1*1	<0.01*1	0.9	-	-	9.4
Ijira River (Input)	13-May-08	<0.1*1	<0.01*1	0.5	-	clear	-
	29-Jul-08	-	<0.01*1	-	-	clear	-
	04-Nov-08	-	<0.01*1	-	-	clear	-
	09-Feb-09	-	<0.01*1	-	-	clear	-
	mean	<0.1*1	<0.01*1	0.5	-	-	-
Takabora River (Input)	13-May-08	<0.1*1	<0.01*1	0.4	-	clear	-
	29-Jul-08	-	<0.01*1	-	-	clear	-
	04-Nov-08	-	<0.01*1	-	-	clear	-
	09-Feb-09	-	<0.01*1	-	-	clear	-
	mean*2	<0.1*1	<0.01*1	0.4	-	-	-
Ijira River (Output)	13-May-08	<0.1*1	0.01	0.8	-	clear	-
	29-Jul-08	-	<0.01*1	-	-	clear	-
	04-Nov-08	-	0.01	-	-	clear	-
	09-Feb-09	-	<0.01*1	-	-	clear	-
	mean*1	<0.1*1	<0.01*1	0.8	-	-	-
Discharge	13-May-08	<0.1*1	<0.01*1	0.9	-	clear	-
	29-Jul-08	-	<0.01*1	-	-	clear	-
	04-Nov-08	-	0.01	-	-	clear	-
	09-Feb-09	-	<0.01*1	-	-	clear	-
	mean	<0.1*1	<0.01*1	0.9	-	-	-

		Anion	Cation	R 1	Judge
Center (Surface)	13-May-08	381.8	374.5	-1.0	○
	29-Jul-08	349.8	345.8	-0.6	○
	04-Nov-08	385.6	391.8	0.8	○
	09-Feb-09	421.2	415.1	-0.7	○
Center (near bottom)	13-May-08	411.9	403.5	-1.0	○
	29-Jul-08	370.7	367.0	-0.5	○
	04-Nov-08	385.7	392.8	0.9	○
	09-Feb-09	422.2	416.7	-0.7	○
Ijira River (Input)	13-May-08	400.7	390.6	-1.3	○
	29-Jul-08	406.9	405.4	-0.2	○
	04-Nov-08	385.8	386.5	0.1	○
	09-Feb-09	403.3	395.7	-0.9	○
Kodo River (Input)	13-May-08	359.8	350.2	-1.3	○
	29-Jul-08	364.1	360.8	-0.5	○
	04-Nov-08	335.1	336.6	0.2	○
	09-Feb-09	344.9	338.0	-1.0	○
		39472			
Ijira River (Output)	13-May-08	392.6	386.2	-0.8	○
	29-Jul-08	449.0	451.3	0.3	○
	04-Nov-08	412.0	419.7	0.9	○
	09-Feb-09	417.1	413.6	-0.4	○
Discharge	13-May-08	388.8	380.8	-1.0	○
	29-Jul-08	359.7	358.4	-0.2	○
	04-Nov-08	385.6	391.8	0.8	○
	09-Feb-09	422.0	417.2	-0.6	○

	Acale	R2	Judge
	4.5	1.8	○
	4.1	1.7	○
	4.6	1.8	○
	4.9	1.6	○
	4.8	1.5	○
	4.3	1.3	○
	4.6	1.7	○
	4.9	1.5	○
	4.7	1.8	○
	4.8	2.2	○
	4.6	1.9	○
	4.9	1.9	○
	4.2	1.3	○
	4.3	1.6	○
	4.0	1.4	○
	4.1	1.2	○
	4.6	1.8	○
	5.1	1.8	○
	4.8	1.8	○
	4.9	1.5	○
	4.6	2.0	○
	4.2	1.6	○
	4.6	1.6	○
	4.9	1.6	○

Table 6.4(4) Result of Inland Aquatic Environment Monitoring

Duration: 2008.5.-2009.1

Country: Japan

Lake Name: Banryu Lake

Site	Sampling Date	Mandatory Parameters : 4 times/year											
		Temp. (°C)	pH	EC (mS/m)	Alkalinity (meq/L)	SO ₄ ²⁻ (mg/L)	NO ₃ ⁻ (mg/L)	Cl ⁻ (mg/L)	NH ₄ ⁺ (mg/L)	Na ⁺ (mg/L)	K ⁺ (mg/L)	Ca ²⁺ (mg/L)	Mg ²⁺ (mg/L)
NO.2 (center) surface	28-May-08	22.6	7.04	10.42	0.150	4.73	0.009	22.5	<0.02*1	14.0	1.80	1.30	1.60
	22-Jul-08	30.9	7.21	10.41	0.146	4.33	0.028	22.5	<0.02*1	14.1	1.80	1.18	1.42
	21-Oct-08	21.2	7.04	11.11	0.223	3.52	0.023	22.8	0.02	14.6	1.96	1.53	1.80
	14-Jan-09	5.0	6.96	11.04	0.179	4.39	0.493	23.6	0.11	14.3	1.91	1.47	1.79
	mean	-	7.05	10.74	0.175	4.24	0.138	22.8	0.03	14.3	1.87	1.37	1.65
NO.2 (center) near bottom	28-May-08	9.8	6.65	11.82	0.294	4.29	0.006	22.8	<0.02*1	14.5	1.98	1.97	2.37
	22-Jul-08	11.6	6.56	14.00	0.666	2.88	0.022	22.8	0.02	15.2	2.56	3.99	3.53
	21-Oct-08	17.1	6.68	12.63	0.490	2.69	0.032	22.8	0.19	14.9	2.40	2.78	2.57
	14-Jan-09	5.1	6.96	11.10	0.180	4.37	0.473	23.6	0.11	14.4	1.94	1.52	1.83
	mean	-	6.69	12.39	0.408	3.56	0.133	23.0	0.08	14.7	2.22	2.57	2.58
NO.3 surface	28-May-08	22.6	7.09	10.38	0.151	4.90	0.011	22.1	<0.02*1	13.7	1.78	1.33	1.45
	22-Jul-08	30.9	7.10	10.34	0.148	4.11	<0.005*1	22.3	<0.02*1	14.1	1.80	1.22	1.35
	21-Oct-08	20.7	7.16	10.95	0.232	3.50	0.009	21.8	<0.02*1	13.6	1.82	1.53	1.70
	14-Jan-09	4.2	6.88	10.92	0.180	4.61	0.488	22.8	0.07	14.1	1.96	1.62	1.80
	mean	-	7.04	10.65	0.178	4.28	0.127	22.3	<0.02*1	13.9	1.84	1.43	1.58

note
 - : Items were not analyzed
 *1 : less than determination limits
 # pick up 2 samples on site, only center surface and measure three times/sample.
 # Mean of pH takes an average of hydrogen ion.
 # When the value is under detection limits, it considers "0". When it is over detection limits and under determination limits, it considers half determination limits. And using it, it was calculated the average and R1R2".
 # Annual precipitation is 1278mm/year in 2008 (Lake Banryu national acid rain monitoring station)

Site	Sampling Date	Mandatory Parameters : Once/year							Optional Parameters					
		PO ₄ ³⁻ (mg/L)	NO ₂ ⁻ (mg/L)	DOC (mg/L)	Transparency (m)	Water color	Al ³⁺ (mg/L)	COD (mg/L)	Chl-a (µg/L)	Fe ³⁺ (mg/L)	Mn ²⁺ (mg/L)	TOC (mg/L)	TN (mg/L)	TP (mg/L)
NO.2 (center) surface	28-May-08	<0.003*1	<0.003*1	2.6	3.4	brown green	0.01	4.8	2.7	0.03	<0.005*1	2.7	0.23	0.009
	22-Jul-08	<0.003*1	<0.003*1	2.7	3.3	brown green	0.01	4.6	2.0	0.04	<0.005*1	2.8	0.24	0.010
	21-Oct-08	<0.003*1	<0.003*1	2.4	2.2	green	<0.01*1	5.0	6.3	0.07	0.031	2.7	0.24	0.014
	14-Jan-09	<0.003*1	0.006	2.5	3.0	green	0.02	4.2	4.0	0.07	0.011	2.5	0.46	0.013
	mean	<0.003*1	<0.003*1	2.5	3.0	-	0.01	4.7	3.8	0.05	0.010	2.7	0.29	0.011
NO.2 (center) near bottom	28-May-08	<0.003*1	<0.003*1	2.5	-	-	<0.01*1	6.3	13.4	0.15	0.636	3.0	0.34	0.031
	22-Jul-08	0.014	0.020	4.2	-	-	0.010	10.8	89.2	6.82	1.299	5.4	0.46	0.061
	21-Oct-08	0.011	0.012	3.6	-	-	0.010	8.8	10.8	3.96	0.631	3.8	0.84	0.049
	14-Jan-09	0.003	0.006	2.4	-	-	0.022	4.3	3.9	0.07	0.011	2.5	0.49	0.012
	mean	0.007	0.009	3.2	-	-	0.010	7.5	29.3	2.75	0.644	3.7	0.53	0.038
NO.3 surface	28-May-08	<0.003*1	<0.003*1	2.5	3.4	brown green	0.010	4.5	2.2	0.02	<0.005*1	2.5	0.18	0.017
	22-Jul-08	<0.003*1	<0.003*1	2.5	3.2	brown green	0.010	4.6	2.5	0.04	<0.005*1	2.5	0.16	0.011
	21-Oct-08	<0.003*1	<0.003*1	2.3	2.3	green	0.010	4.6	6.6	0.07	0.009	2.5	0.29	0.014
	14-Jan-09	<0.003*1	0.006	2.2	2.7	green	0.010	3.8	4.3	0.03	<0.005*1	2.4	0.42	0.011
	mean	<0.003*1	<0.003*1	2.3	2.9	-	0.010	4.4	3.9	0.04	<0.005*1	2.5	0.26	0.013

		Anion	Cation	R1	Judge		Acalc	R2	Judge
(center) surface	28-May-08	883.2	853.7	-1.7	○		10.8	1.8	○
	22-Jul-08	872.9	836.1	-2.2	○		10.6	1.0	○
	21-Oct-08	939.0	916.3	-1.2	○		11.3	1.0	○
	14-Jan-09	942.9	902.8	-2.2	○		11.4	1.8	○
NO.2 (center) near bottom	28-May-08	1027.5	1005.1	-1.1	○		12.3	1.9	○
	22-Jul-08	1371.0	1508.8	4.8	○		16.5	8.1	X
	21-Oct-08	1190.3	1233.1	1.8	○		14.2	5.7	○
	14-Jan-09	943.6	910.1	-1.8	○		11.5	1.6	○
NO.3 surface	28-May-08	876.5	828.8	-2.8	○		10.6	1.1	○
	22-Jul-08	862.5	832.7	-1.8	○		10.5	0.9	○
	21-Oct-08	919.7	857.1	-3.5	○		10.8	-0.5	○
	14-Jan-09	927.0	895.1	-1.7	○		11.3	1.7	○
note									

Table 6.4(5) Result of Inland Aquatic Environment Monitoring

Duration: 2008.1.-2008.12

Country: Malaysia

Lake Name: See below

Site	Sampling Date	Mandatory Parameters : 4 times/year											
		Temp. (°C)	pH	EC (mS/m)	Alkalinity (meq/L)	SO ₄ ²⁻ (mg/L)	NO ₃ ⁻ (mg/L)	Cl ⁻ (mg/L)	NH ₄ ⁺ (mg/L)	Na ⁺ (mg/L)	K ⁺ (mg/L)	Ca ²⁺ (mg/L)	Mg ²⁺ (mg/L)
Tembaling river	25-Mar-08	-	6.60	17.91	1.800	6.20	1.10	1.40	<0.05	5.90	0.33	25.00	12.00
	23-Jun-08	-	7.17	18.05	1.800	9.20	0.82	1.20	0.03	5.80	0.43	23.00	10.00
	23-Sep-08	-	7.98	20.20	2.000	9.10	0.58	1.20	0.01	6.00	0.39	21.00	10.00
	23-Dec-08	-	8.03	18.31	1.800	7.90	0.50	1.00	0.01	5.60	0.45	19.00	9.60
	-	-	7.07	18.62	1.850	8.10	0.75	1.20	0.01	5.83	0.40	22.00	10.40
Semenyih Dam	18-Jan-08	28.7	6.93	1.60	0.260	1.20	0.40	0.90	0.08	2.80	2.00	2.10	0.59
	06-Mar-08	30.1	6.96	1.40	0.300	1.10	0.10	0.80	0.07	2.50	2.30	2.60	0.80
	13-Jun-08	29.4	6.95	1.60	0.240	2.00	0.02	0.83	0.05	2.00	1.84	2.40	0.58
	04-Sep-08	28.3	6.92	1.50	0.260	2.60	0.20	0.80	0.05	2.54	2.19	3.04	0.68
	mean*1	-	6.94	1.53	0.265	1.73	0.18	0.83	0.06	2.46	2.08	2.54	0.66
- : Items were not analyzed													
*1 : Mean of pH takes an average of hydrogen ion													
		Anion	Cation	R1	Judge*3		Δcalc	R2	Judge*3				
Tembaling river	25-Mar-08	1986.3	2499.7	11.4	X		23.5	13.6	X				
	23-Jun-08	2038.6	2235.1	4.6	O		22.5	11.0	X				
	23-Sep-08	2232.7	2141.8	-2.1	O		22.8	6.0	O				
	23-Dec-08	2000.8	1993.2	-0.2	O		20.8	6.3	O				
Semenyih Dam	18-Jan-08	316.6	330.8	2.2	O		3.5	37.3	X				
	06-Mar-08	346.8	367.1	2.8	O		3.8	46.5	X				
	13-Jun-08	305.1	304.4	-0.1	O		3.4	35.5	X				
	04-Sep-08	339.7	376.7	5.2	O		4.0	45.2	X				

*3: Concerning "X" judging, it was not able to specify the main reasons

Table 6.4(6) Result of Inland Aquatic Environment Monitoring

Duration: 2008.4-2008.9
 Country: Mongolia
 Lake Name: Terelj river

Site	Sampling Date	Temp. (°C)	pH	EC (mS/m)	Alkalinity (meq/L)	Mandatory Parameters : 4 times/year								Mandatory Parameters : Once/year	
						SO ₄ ²⁻ (mg/L)	NO ₃ ⁻ (mg/L)	Cl ⁻ (mg/L)	NH ₄ ⁺ (mg/L)	Na ⁺ (mg/L)	K ⁺ (mg/L)	Ca ²⁺ (mg/L)	Mg ²⁺ (mg/L)	PO ₄ ³⁻ (mg/L)	NO ₂ ⁻ (mg/L)
Surface	16-Apr-08	4.4	7.07	14.80	0.433	4.79	1.21	0.87	<0.01*1	1.97	1.08	15.67	1.16	0.002	<0.005*1
	28-May-08	9.8	7.18	5.07	0.292	4.91	2.51	0.92	<0.01*1	2.00	0.43	11.98	0.81	0.001	<0.005*1
	25-Jun-08	16.5	6.88	3.93	0.121	4.22	1.71	0.55	<0.01*1	1.54	0.56	11.21	0.84	0.013	<0.005*1
	30-Jul-08	15.2	7.04	5.31	0.282	3.01	1.02	0.70	<0.01*1	2.00	0.55	14.38	1.04	0.004	<0.005*1
	17-Aug-08	12.0	7.33	5.59	0.302	3.12	0.96	0.74	<0.01*1	2.16	0.54	15.59	1.15	0.011	<0.005*1
	25-Sep-08	5.4	7.19	4.86	0.262	2.84	0.58	0.62	<0.01*1	1.91	0.46	13.39	1.00	0.011	<0.005*1
	mean*2	-	6.36	6.59	0.28	3.82	1.33	0.73	<0.01*1	1.93	0.60	13.70	1.00	0.007	<0.005*1
note															
*1 : less than determination limits															
*2 : Mean of pH takes an average of hydrogen ion.															
Surface		Anion	Cation	R1	Judge*3		Acalc	R2	Judge*3						
	16-Apr-08	576.8	990.7	26.4	X		8.9	-25.0	X						
	28-May-08	460.7	762.5	24.7	X		7.1	16.4	X						
	25-Jun-08	252.4	709.9	47.5	X		5.7	18.5	X						
	30-Jul-08	381.0	904.2	40.7	X		7.3	15.9	X						
	17-Aug-08	403.7	980.3	41.7	X		7.9	16.9	X						
	25-Sep-08	348.3	845.3	41.6	X		6.8	16.5	X						
note															
*3: Concerning "X" judging, it was not able to specify the main reasons															

Table 6.4(7) Result of Inland Aquatic Environment Monitoring

Duration: 2008.2-2008.12
 Country: Philippines
 Lake Name: Pandin Lake & Ambulalakao Lake

Site	Sampling Date	Temp. (°C)	pH	EC (mS/m)	Alkalinity (meq/L)	SO ₄ ²⁻ (mg/L)	NO ₃ ⁻ (mg/L)	Cl ⁻ (mg/L)	NH ₄ ⁺ (mg/L)	Na ⁺ (mg/L)	K ⁺ (mg/L)	Ca ²⁺ (mg/L)	Mg ²⁺ (mg/L)	PO ₄ ³⁻ (mg/L)	NO ₂ ⁻ (mg/L)
Pandin Lake (Surface)	06-Feb-08	-	8.95	17.4	1.65	0.739	5.15	3.54	0.034	6.88	5.15	16.7	9.45	0.013	-
	21-May-08	-	7.06	17.9	1.72	0.695	5.39	3.83	0.040	7.89	4.92	11.1	7.92	-	-
	16-Jul-08	-	7.95	18.6	1.51	0.845	5.15	3.73	*2	7.22	4.68	10.1	6.54	-	-
	*3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	mean ^{*1}	-	7.48	18.0	1.63	0.760	5.23	3.70	0.02	7.33	4.92	12.6	7.97	0.013	-
Ambulalakao Lake (Surface)	17-Mar-08	-	5.69	0.395	0.043	0.534	0.274	0.218	0.090	0.118	0.049	0.548	0.324	0.001	-
	*4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12-Sep-08	19.6	5.77	0.414	0.150	0.214	*2	0.147	0.156	0.190	0.080	0.151	0.076	-	-
	09-Dec-08	17.0	5.76	0.338	0.050	0.071	0.093	0.130	0.049	0.262	0.066	0.092	0.063	-	-
	mean ^{*1}	-	5.74	0.382	0.081	0.273	0.122	0.165	0.098	0.190	0.065	0.264	0.154	0.001	-

- : Items were not analyzed
 *1 : Mean of pH takes an average of hydrogen ion
 *2 : Item were not detected.
 *3 :The heavy downpour of rain affected many instruments of the laboratory, thus collection of sample was not conducted in 4th.
 *4 :The Lake was not accessible due to heavy rains during the second quarter.

	Anion	Cation	R1	Judge	
Pandin Lake (Surface)	06-Feb-08	1848.7	2043.3	5.0	O
	21-May-08	1929.4	1678.5	-7.0	O
	16-Jul-08	1715.9	1475.6	-7.5	O
	*3	-	-	-	-
Ambulalakao Lake (Surface)	14-Feb-07	64.7	67.4	2.0	O
	*4	-	-	-	-
	12-Sep-07	158.6	34.4	-64.3	X
	12-Dec-07	56.6	27.3	-35.0	X

Acalc	R3	Judge*5
20.4	8.0	O
18.7	2.1	O
16.6	-5.6	O
-	-	-
0.771	32.2	X
-	-	-
0.993	41.1	X
0.458	15.1	O

*5 :Concerning "X" judging, it was not able to specify the main reasons

Table 6.4(8) Result of Inland Aquatic Environment Monitoring

Duration: 2008.2.-2008.11
 Country: Russian Federation
 Lake Name: See below

Site	Sampling Date	Temp. (°C)	pH	EC (mS/m)	Alkalinity (meq/L)	SO ₄ ²⁻ (mg/L)	NO ₃ ⁻ (mg/L)	Cl ⁻ (mg/L)	NH ₄ ⁺ (mg/L)	Na ⁺ (mg/L)	K ⁺ (mg/L)	Ca ²⁺ (mg/L)	Mg ²⁺ (mg/L)	Transparency (m)	Water color	TOC (mg/L)	NO ₂ ⁻ (mg/L)	PO ₄ ³⁻ (mg/L)	COD (mg/L)	Fe (mg/L)	TP (mg/L)	O ₂ (mg/L)	Si (mg/L)
Pereemnaya River (surface)	26-Feb-08	0.2	6.62	5.77	0.190	10.94	1.17	0.12	0.01	1.18	0.70	5.74	1.22	-	colorless	0.76	0.001	0.010	0.32	-	0.012	11.92	3.66
	23-May-08	6.8	6.58	3.92	0.130	7.35	1.29	0.12	0.07	0.81	0.56	3.67	0.83	-	yellow	0.87	0.001	0.004	0.70	-	0.014	12.34	2.46
	13-Jul-08	14.6	7.05	4.38	0.140	8.52	0.72	0.05	0.03	0.82	0.56	3.96	1.14	-	colorless	1.26	0.002	0.008	1.06	-	0.205	10.27	2.83
	05-Oct-08	7.5	6.60	5.42	0.160	12.29	0.93	0.22	0.02	0.89	0.58	5.77	1.02	-	colorless	1.09	0.002	0.006	0.96	-	0.011	12.42	2.87
	mean*1	-	6.68	4.87	0.155	9.77	1.03	0.13	0.03	0.93	0.60	4.78	1.05	-	-	0.99	0.002	0.007	0.76	-	0.060	11.74	2.95
Komarovka River (surface)	19-Feb-08	0.1	7.15	8.52	0.352	12.50	1.13	3.22	0.15	3.57	0.60	8.05	1.87	-	colorless	-	0.046	0.011	2.82	0.10	-	13.82	3.08
	21-Apr-08	15.5	7.00	8.54	0.330	13.37	1.06	3.17	0.05	3.72	0.75	8.58	1.48	-	colorless	-	0.046	0.033	4.18	0.57	-	12.52	3.27
	17-Jun-08	12.6	7.25	8.52	0.377	13.10	0.12	2.53	0.04	3.62	0.53	7.52	2.45	-	colorless	-	0.068	0.072	4.65	0.13	-	10.57	2.87
	16-Sep-08	19.1	7.41	9.07	0.423	12.32	0.10	3.17	0.09	4.55	0.72	8.33	2.05	-	colorless	-	0.082	0.025	3.03	0.11	-	9.10	3.67
	18-Nov-08	0.1	7.45	8.76	0.475	9.10	0.18	3.20	0.11	3.57	0.48	8.22	2.55	-	colorless	-	0.025	0.009	3.48	0.09	-	14.13	3.58
	mean*1	-	7.22	8.68	0.391	12.08	0.52	3.06	0.09	3.80	0.62	8.14	2.08	-	-	-	0.053	0.030	3.63	0.20	-	12.03	3.29

- : Items were not analyzed
 *1 : Mean of pH takes an average of hydrogen ion
 *2 : Items were not detected.
 # Pick up 2 samples on site and measure three times/sample.
 # Mean of pH takes an average of hydrogen ion.

		Anion	Cation	R1	Judge
Pereemnaya River (surface)	26-Feb-08	440.3	456.6	1.8	O
	23-May-08	307.4	304.8	-0.4	O
	13-Jul-08	330.8	343.2	1.8	O
	05-Oct-08	437.1	426.7	-1.2	O
Komarovka River (surface)	19-Feb-08	722.2	737.6	1.1	O
	21-Apr-08	716.7	754.5	2.6	O
	17-Jun-08	726.5	754.3	1.9	O
	16-Sep-08	773.3	809.4	2.3	O
	18-Nov-08	758.4	796.8	2.5	O

Acalc	R2	Judge
5.5	-2.1	O
3.9	-0.7	O
4.3	-1.1	O
5.6	1.2	O
9.1	3.3	O
9.5	5.1	O
9.4	4.9	O
9.7	3.2	O
9.4	3.5	O

Table 6.4(9) Result of Inland Aquatic Environment Monitoring

Duration: 2008.3-2008.12
 Country: Thailand
 Lake Name: Vachiralongkorn Dam

Site	Sampling Date	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year					
		Temp. (°C)	pH	EC (mS/m)	Alkalinity (meq/L)	SO ₄ ²⁻ (mg/L)	NO ₃ ⁻ (mg/L)	Cl ⁻ (mg/L)	NH ₄ ⁺ (mg/L)	Na ⁺ (mg/L)	K ⁺ (mg/L)	Ca ²⁺ (mg/L)	Mg ²⁺ (mg/L)	PO ₄ ³⁻ (mg/L)	NO ₂ ⁻ (mg/L)	COD (mg/L)	Transparency (m)	Water color
Station1 (Ban Pong Chang)	26 Mar 08	26.9	7.55	9.4	1.18	1.28	<0.2*1	0.83	<0.01*1	1.21	1.09	16.6	3.03	<0.01*1	-	7.80	3.5	sky blue
	25 Jun 08	29.3	8.05	10.6	1.15	1.19	0.03	0.78	-	1.15	0.95	15.8	3.11	0.01	<0.01*1	6.20	4.8	sky blue
	24 Sep 08	29.4	7.75	10.8	1.19	0.99	<0.06*1	0.67	-	1.14	0.97	15.9	3.17	0.01	<0.01*1	6.25	4.5	sky blue
	3 Dec 08	27.5	7.65	11.5	1.20	0.98	0.06	0.74	-	1.15	0.89	16.8	3.60	0.01	0.01	-	4.7	sky blue
	mean	-	7.71	10.6	1.18	1.11	0.05	0.75	<0.01*1	1.16	0.97	16.3	3.23	<0.01*1	0.01	6.8	4.4	-
Station2 (Ban Pang Pueng)	26 Mar 08	26.9	7.70	9.3	1.21	1.53	<0.2*1	0.88	<0.01*1	1.23	1.09	17.0	2.59	<0.01*1	-	2.4	4.0	sky blue
	25 Jun 08	28.6	8.08	10.5	1.13	1.25	<0.01*1	0.76	-	1.16	0.97	16.0	2.63	<0.01*1	<0.01*1	9.3	4.5	sky blue
	24 Sep 08	28.5	7.70	9.40	1.03	1.16	<0.06*1	0.64	-	1.14	0.96	14.4	2.28	0.01	<0.01*1	2.4	4.5	sky blue
	3 Dec 08	26.8	7.75	10.3	1.05	2.04	0.06	0.74	-	1.16	0.98	15.3	2.49	0.01	0.01	-	4.7	sky blue
	mean	-	7.78	9.9	1.10	1.49	<0.06*1	0.75	<0.01*1	1.17	1.00	15.7	2.49	<0.01*1	0.01	4.7	4.4	-

note

- : Items were not analyzed

*1 : less than determination limits

Mean of pH takes an average of hydrogen ion.

pick up 2 samples on site.

When the value is under detection limits, it considers "0". When it is over detection limits and under determination limits,

it considers half determination limits. And using it, it was calculated the average and R1R2".

#Annual precipitation amount: 1961.9mm

	Date	Anion	Cation	R1	Judge		Acalc	R2	Judge
Station1 (Ban Pong Chang)	21 Mar 07	1230.1	1157.9	-3.0	O		12.39	14.0	X
	12 Jul 07	1197.6	1118.5	-3.4	O		12.00	6.2	O
	17 Oct 07	1224.7	1125.3	-4.2	O		12.13	5.8	O
	19 Dec 07	1240.5	1204.3	-1.5	O		12.66	5.0	O
Station2 (Ban Pang Pueng)	21 Mar 07	1261.4	1142.2	-5.0	O		12.48	14.6	X
	12 Jul 07	1172.3	1089.5	-3.7	O		11.74	5.6	O
	17 Oct 07	1072.4	977.2	-4.6	O		10.62	6.1	O
	19 Dec 07	1118.8	1040.5	-3.6	O		11.28	4.5	O

note

Table 6.4(10) Result of Inland Aquatic Environment Monitoring

Duration: 2008. 3.-2008.12.
 Country: Viet Nam
 Lake Name: Hoa Binh Reservoir

Site	Sampling Date	Temp. (°C)	pH	EC (mS/m)	Alkalinity (meq/L)	SO ₄ ²⁻ (mg/L)	NO ₃ ⁻ (mg/L)	Cl ⁻ (mg/L)	NH ₄ ⁺ (mg/L)	Na ⁺ (mg/L)	K ⁺ (mg/L)	Ca ²⁺ (mg/L)	Mg ²⁺ (mg/L)	PO ₄ ³⁻ (mg/L)	NO ₂ ⁻ (mg/L)	DOC (mg/L)	COD (mg/L)	Transparency (m)
Surface	15-Mar-08	21.0	8.12	19.67	1.65	8.96	0.53	1.80	0.05	3.49	1.06	24.33	5.23	-	0.026	-	2.05	-
	15-Jun-08	28.2	7.50	21.15	1.68	10.69	1.91	2.70	0.01	0.81	0.42	28.92	4.95	-	0.019	-	1.90	-
	15-Sep-08	28.5	8.19	14.92	1.32	4.43	0.13	0.90	0.04	2.30	1.25	16.92	4.81	-	0.031	-	2.85	-
	15-Dec-08	24.0	7.53	17.30	1.48	5.36	1.57	1.19	0.04	2.72	0.91	21.43	5.03	0.021	0.025	-	2.12	1.53
	mean ^{*1}	-	7.73	18.26	1.53	7.36	1.04	1.65	0.04	2.33	0.91	22.90	5.01	0.021	0.025	-	2.23	1.53
- : Items were not analyzed																		
*1 : Mean of pH takes an average of hydrogen ion																		
		Anion	Cation	R1	Judge		Acalc	R2	Judge									
Surface	15-Mar-08	1895.9	1825.9	-1.9	O		19.8	0.4	O									
	15-Jun-08	2009.5	1896.7	-2.9	O		21.1	-0.1	O									
	15-Sep-08	1439.7	1374.1	-2.3	O		14.7	-0.6	O									
	15-Dec-08	1650.5	1626.8	-0.7	O		17.3	0.0	O									

Table 6.4 (11) Summary of Inland Aquatic Environment Monitoring

Country	Location	Site	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
			pH	EC (mS/m)	Alkalinity (meq/L)	SO ₄ ²⁻ (mg/L)	NO ₃ ⁻ (mg/L)	Cl ⁻ (mg/L)	NH ₄ ⁺ (mg/L)	Na ⁺ (mg/L)	K ⁺ (mg/L)	Ca ²⁺ (mg/L)	Mg ²⁺ (mg/L)	PO ₄ ³⁻ (mg/L)	NO ₂ ⁻ (mg/L)	DOC (mg/L)	COD (mg/L)	Transparency (m)
China	Chongqing	Jinyunshan Lake	5.42	12.20	0.066	33.26	12.78	2.77	0.16	2.65	1.98	11.34	3.77	*1	*1	-	2.9	3.7
	Xiamen	Xiaoping Dam	6.73	5.66	0.124	4.49	2.67	12.95	0.14	4.97	2.46	3.90	0.56	0.01	0.007	-	1.9	-
	Xi'an	Jiwozi River	7.05	8.42	0.248	13.92	1.89	1.51	0.30	1.43	1.05	9.38	1.20	<0.01*1	<0.003*1	-	2.5	-
	Zhuhai	Zhuxiandong Stream	7.18	7.58	0.165	2.95	2.36	4.90	0.05	6.83	1.31	4.40	1.76	*1	*1	-	1.1	1.3
Indonesia	Bandung	Patenggang Lake (Center, surface)	6.76	6.43	0.448	7.89	0.07	2.18	0.05	2.84	1.29	6.18	2.39	0.202	0.019	10.2	-	0.9
		Gunung Lake (Center, surface)	6.73	5.90	0.438	5.59	0.03	2.01	0.57	2.24	0.71	5.09	1.87	0.040	0.007	6.7	-	1.1
Japan	Gifu pref.	Ijira Lake (Center, surface)	7.19	4.36	0.183	5.37	1.78	2.16	0.04	2.10	0.28	3.24	1.45	<0.1*1	<0.01*1	0.8	-	2.7
	Shimane pref.	Banryu Lake (Center, surface)	7.05	10.74	0.175	4.24	0.14	22.84	0.03	14.28	1.87	1.37	1.65	<0.003*1	<0.003*1	2.5	-	3.0
Malaysia		Semenyih Dam	6.94	1.53	0.265	1.73	0.18	0.83	0.06	2.46	2.08	2.54	0.66	-	-	-	-	-
	Sabah	Tembaling river	7.07	18.62	1.850	8.10	0.75	1.20	0.01	5.83	0.40	22.00	10.40	-	-	-	-	-
Mongolia	Terej	Terej river	6.36	6.59	0.282	3.82	1.33	0.73	<0.01*1	1.93	0.60	13.70	1.00	0.007	<0.005*1	-	-	-
Philippines	Los Banos	Pandin Lake (Surface)	7.48	17.95	1.627	0.76	5.23	3.70	0.02	7.33	4.92	12.65	7.97	0.013	-	-	-	-
		Ambulalakao Lake (Surface)	5.74	0.38	0.081	0.27	0.12	0.17	0.10	0.19	0.07	0.26	0.15	0.001	-	-	-	-
Russia	Southern Baikal	Pereemnya River (Surface)	6.68	4.87	0.155	9.77	1.03	0.13	0.03	0.93	0.60	4.78	1.05	0.007	0.002	0.99	0.76	-
	Primorskaya	Komarovka River (Surface)	7.22	8.68	0.391	12.08	0.52	3.06	0.09	3.80	0.62	8.14	2.08	0.030	0.053	-	3.63	-
Thailand	Kanchanaburi Province	Vachiralongkorn Dam (Ban Pong Chang)	7.71	10.55	1.178	1.11	0.05	0.75	<0.01*1	1.16	0.97	16.25	3.23	<0.01*1	0.010	-	6.75	4.4
		Vachiralongkorn Dam (Ban Pang Pueng)	7.78	9.88	1.104	1.49	<0.06*1	0.75	<0.01*1	1.17	1.00	15.65	2.49	<0.01*1	0.010	-	4.70	4.4
Viet Nam	Hoa Binh Province	Hoa Binh Reservoir (Surface)	7.73	18.26	1.533	7.36	1.04	1.65	0.04	2.33	0.91	22.90	5.01	0.021	0.025	-	2.23	1.53

note
- : Items were not analyzed
*1 : Less than determination limits

Table 6.5(1) Annual mean values of each parameters from 2001 to 2008 at Jinyushan Lake (China)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2001	7.50	9.05	-	26.05	7.68	2.58	0.65	1.78	1.58	6.63	2.63	-	-	-	-	-
2002	6.12	9.52	-	26.36	7.99	2.53	0.09	2.50	1.79	9.08	3.28	-	-	-	-	-
2003	6.55	9.79	0.210	23.21	5.16	2.68	0.21	2.60	1.72	9.03	3.30	-	-	-	-	0.9
2004	6.34	9.61	0.075	25.72	7.94	1.74	0.30	1.98	1.65	9.66	2.71	-	-	-	7.6	2.6
2005	6.04	10.21	0.073	28.12	8.16	2.63	0.04	2.70	1.82	9.36	3.22	*1	*1	-	2.9	3.7
2006	6.36	11.92	0.113	32.65	9.53	3.05	0.11	2.96	2.27	11.05	3.82	*1	*1	-	3.2	5.0
2007	6.24	12.35	0.086	37.19	10.21	3.12	0.12	2.81	2.18	11.24	3.81	*1	*1	-	4.4	3.0
2008	5.42	12.20	0.066	33.26	12.78	2.77	0.16	2.65	1.98	11.34	3.77	*1	*1	-	2.9	3.7

Table 6.5(2) Annual mean values of each parameters from 2001 to 2008 at Xiaoping Dam (China)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2001	7.21	-	-	1.43	1.30	2.18	-	-	-	-	-	-	-	-	-	-
2002	7.39	7.00	-	4.67	6.66	2.82	0.20	7.29	2.14	2.29	0.82	-	-	-	-	-
2003	6.73	7.19	0.193	2.68	5.02	5.91	0.17	6.53	2.06	2.35	0.86	-	-	-	1.8	-
2004	7.34	5.57	0.242	2.68	7.83	4.35	0.18	6.70	2.18	2.92	0.64	0.020	0.008	-	2.1	-
2005	6.73	4.62	0.232	2.07	2.83	3.94	0.05	4.77	2.37	2.95	0.61	0.020	0.008	-	1.3	0.9
2006	6.81	5.27	0.190	2.46	2.52	5.13	0.19	6.02	2.33	3.19	0.66	0.020	0.008	-	0.7	0.9
2007	7.07	7.32	0.110	2.67	2.67	5.13	0.15	3.64	1.63	2.82	0.54	-	0.006	-	1.8	-
2008	6.73	5.66	0.124	4.49	2.67	12.95	0.14	4.97	2.46	3.90	0.56	0.010	0.007	-	1.9	-

Table 6.5(3) Annual mean values of each parameters from 2001 to 2008 at Jiwozi River (China)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2001	7.11	4.50	0.225	10.03	1.47	1.06	0.04	1.90	0.70	8.83	1.38	-	-	-	-	-
2002	7.60	8.47	0.110	12.16	1.70	1.80	*1	2.80	1.20	12.73	1.72	-	-	-	-	-
2003	7.54	7.83	0.140	11.44	2.01	1.63	*1	2.08	0.95	12.03	1.59	-	-	-	-	-
2004	7.20	6.63	0.243	11.68	2.30	1.06	*1	1.79	0.68	9.04	1.35	*1	*1	-	3.2	-
2005	6.99	7.99	0.208	15.31	0.81	1.74	0.06	1.77	0.72	7.44	1.35	*1	0.090	-	1.6	-
2006	6.80	7.59	0.238	11.80	1.87	1.21	0.07	1.93	0.65	7.64	1.11	0.030	0.003	-	2.8	-
2007	7.32	8.86	0.250	16.68	3.46	1.31	0.13	2.09	0.96	11.00	0.96	*1	*1	-	2.2	-
2008	7.05	8.42	0.248	13.92	1.89	1.51	0.30	1.43	1.05	9.38	1.20	<0.01*1	<0.003*1	-	2.5	-

Table 6.5(4) Annual mean values of each parameters from 2004 to 2008 at Zhuxiangdong stream and from 2001 to 2003 at Zhuxiangdong reservoir(China)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2001	7.62	-	-	17.70	0.63	43.13	0.20	-	-	-	-	-	-	-	-	-
2002	7.93	6.70	0.963	19.89	0.83	23.80	0.23	7.27	1.57	17.00	2.50	-	-	-	-	-
2003	7.82	7.54	1.603	17.50	0.29	19.59	0.17	7.34	1.96	16.80	2.36	-	0.029	-	1.7	-
2004	7.12	8.49	0.645	5.47	1.90	6.03	*1	8.95	1.88	5.41	2.84	-	*1	-	1.1	-
2005	6.97	9.53	0.133	5.83	1.70	6.73	*1	8.90	1.60	4.63	2.65	*1	*1	-	0.9	1.3
2006	7.18	7.35	0.225	2.60	1.15	4.50	1.10	5.40	1.13	4.38	1.58	*1	*1	-	1.0	1.3
2007	7.28	7.80	0.240	3.61	1.77	5.09	0.10	6.01	1.22	3.65	1.38	*1	*1	-	1.1	1.3
2008	7.18	7.58	0.165	2.95	2.36	4.90	0.05	6.83	1.31	4.40	1.76	*1	*1	-	1.1	1.3

- : Items were not analyzed.

*1 : Less than determination limits

Table 6.5(5) Annual mean values of each parameters from 2001 to 2008 at Patenggang Lake (Indonesia)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2001	7.90	7.28	0.488	4.33	0.07	8.19	0.13	4.90	0.54	6.32	2.18	-	-	-	-	-
2002	8.46	5.83	0.255	7.33	0.06	6.30	0.17	4.60	0.71	4.03	1.93	-	-	-	-	-
2003	7.34	6.58	0.460	7.76	0.19	7.50	0.53	4.30	0.49	5.17	2.53	0.207	*1	12.4	-	0.6
2004	7.29	5.89	0.340	2.65	0.03	3.85	0.02	2.10	0.85	5.75	2.20	0.014	*1	7.3	-	0.6
2005	7.19	6.71	0.459	8.83	0.23	2.30	0.43	4.04	1.87	5.70	2.70	0.010	*1	10.9	-	0.1
2006	7.49	5.74	0.414	3.80	0.47	2.58	0.39	2.87	1.70	5.70	1.43	0.085	0.016	8.1	-	0.1
2007	7.17	6.75	0.420	7.45	0.32	2.59	0.41	3.40	1.53	5.75	1.47	0.038	0.012	3.8	-	0.1
2008	6.76	6.43	0.448	7.89	0.07	2.18	0.05	2.84	1.29	6.18	2.39	0.202	0.019	10.2	-	0.9

Table 6.5(6) Annual mean values of each parameters from 2008 at Gunung Lake (Indonesia)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2008	6.73	5.90	0.438	5.59	0.03	2.01	0.57	2.24	0.71	5.09	1.87	0.040	0.007	6.7	-	1.1

Table 6.5(7) Annual mean values of each parameters from 2001 to 2008 at Ijira Lake (Japan)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2001	6.85	4.33	0.138	4.66	2.31	2.19	0.07	2.37	0.40	3.51	1.61	<0.01*1	-	-	-	-
2002	6.72	4.52	0.173	5.63	2.01	2.27	0.09	2.23	0.38	3.39	1.37	<0.066*1	<0.01*1	3.2	-	2.2
2003	6.75	4.10	0.146	5.14	2.07	2.40	0.08	1.86	0.30	2.94	1.36	<0.01*1	<0.03*1	1.4	-	3.0
2004	7.17	4.05	0.145	4.79	1.88	2.34	0.12	2.15	0.23	2.71	1.23	<0.03*1	<0.02*1	1.1	-	2.8
2005	6.94	4.47	0.153	5.73	2.37	2.32	0.08	2.29	0.39	3.27	1.42	<0.03*1	0.068	0.7	-	3.0
2006	6.81	3.94	0.164	4.53	2.11	2.09	0.03	2.00	0.33	2.80	1.23	<0.1*1	<0.02*1	0.6	-	2.4
2007	7.09	4.58	0.206	5.77	1.22	2.27	0.03	2.24	0.30	3.57	1.46	<0.1*1	<0.02*1	1.0	-	2.7
2008	7.19	4.36	0.183	5.37	1.78	2.16	0.04	2.10	0.28	3.24	1.45	<0.1*1	<0.01*1	0.8	-	2.7

Table 6.5(8) Annual mean values of each parameters from 2001 to 2008 at Banryu Lake (Japan)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2001	6.98	9.43	0.174	4.07	0.11	19.73	0.15	12.23	1.75	1.23	1.60	<0.003*1	-	-	5.3	-
2002	7.07	10.10	0.176	3.93	0.30	21.90	0.12	12.96	1.80	1.21	1.76	<0.003*1	<0.003*1	2.5	5.7	1.6
2003	6.98	10.85	0.170	3.96	0.14	22.31	0.19	13.44	1.78	1.09	1.69	<0.003*1	<0.003*1	2.6	5.6	1.5
2004	7.10	10.68	0.165	3.96	0.21	22.96	0.09	13.95	1.84	1.05	1.69	<0.003*1	<0.003*1	3.3	4.8	2.5
2005	7.09	10.68	0.156	4.31	0.14	23.05	0.04	14.18	1.91	1.47	1.82	0.003	<0.003*1	2.6	5.0	2.2
2006	7.01	10.28	0.162	4.44	0.13	21.61	0.11	13.76	1.83	1.49	1.77	<0.003*1	0.003	2.7	4.8	2.5
2007	7.02	10.76	0.176	4.49	0.10	22.49	0.02	14.28	1.94	1.52	1.62	<0.003*1	<0.003*1	2.6	5.0	2.5
2008	7.05	10.74	0.175	4.24	0.14	22.84	0.03	14.28	1.87	1.37	1.65	<0.003*1	<0.003*1	2.5	-	3.0

- : Items were not analyzed.

*1 : Less than determination limits

Table 6.5(9) Annual mean values of each parameters from 2005 to 2008 at Semenyih Dam (Malaysia)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2005	7.08	2.27	0.226	0.75	1.07	1.41	0.11	2.34	2.01	4.93	1.40	-	-	-	-	-
2006	7.24	3.03	0.688	5.04	0.87	7.03	0.29	14.55	16.83	14.39	2.70	-	-	-	-	-
2007	7.02	2.67	0.266	1.22	0.10	0.75	0.04	2.35	2.05	2.30	0.69	-	-	-	-	-
2008	6.94	1.53	0.265	1.73	0.18	0.83	0.06	2.46	2.08	2.54	0.66	-	-	-	-	-

Table 6.5(10) Annual mean values of each parameters from 2007 to 2008 at Tembaling River (Malaysia)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2007	6.80	13.90	1.640	7.03	0.63	2.20	0.05	3.01	3.37	16.50	8.68	-	-	-	-	-
2008	7.07	18.62	1.850	8.10	0.75	1.20	0.01	5.83	0.40	22.00	10.40	-	-	-	-	-

Table 6.5(11) Annual mean values of each parameters from 2002 to 2008 at Terelj River (Mongolia)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2002	7.23	4.84	0.098	3.47	1.11	0.43	0.04	1.87	0.52	7.17	0.87	-	-	-	-	-
2003	6.75	4.60	0.266	3.16	0.74	0.36	0.04	1.65	0.48	5.88	0.83	-	-	-	-	-
2004	6.80	4.44	0.296	2.76	0.70	0.54	0.06	1.60	0.72	5.93	0.89	-	-	-	-	-
2005	6.90	4.84	0.367	3.18	0.82	0.56	0.05	1.95	0.68	8.90	1.04	-	0.003	-	-	-
2006	6.99	5.07	0.327	3.60	0.79	0.46	0.11	2.07	0.62	9.04	1.07	-	0.003	-	-	-
2007	6.89	5.06	0.339	3.18	0.79	0.57	0.07	2.22	0.55	8.63	1.03	<0.005*1	0.003	-	-	-
2008	6.36	6.59	0.282	3.82	1.33	0.73	<0.01*1	1.93	0.60	13.70	1.00	0.007	<0.005*1	-	-	-

- : Items were not analyzed.

*1 : Less than determination limits

Table 6.5(12) Annual mean values of each parameters from 2004 to 2008 at Pandin Lake (Philippines)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2004	8.08	18.23	1.808	0.33	0.08	3.16	0.02	8.91	5.81	12.05	6.91	0.014	0.072	-	-	-
2005	7.96	18.14	1.723	1.11	0.58	3.76	0.69	8.18	4.89	14.33	7.84	0.005	0.295	-	-	-
2006	7.72	17.34	1.758	0.43	0.19	2.40	0.22	8.08	5.08	15.13	7.30	0.004	0.012	-	-	2.2
2007	7.76	17.57	1.708	0.52	0.10	3.37	0.26	7.28	6.29	12.10	9.03	0.002	0.013	-	-	-
2008	7.48	17.95	1.627	0.76	5.23	3.70	0.02	7.33	4.92	12.65	7.97	0.013	-	-	-	-

Table 6.5(13) Annual mean values of each parameters from 2005 to 2008 at Ambulalakao Lake (Philippines)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2005	5.82	0.44	0.020	0.15	0.11	0.06	-	0.22	0.15	0.15	0.04	-	0.100	-	-	-
2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2007	5.49	0.53	0.031	0.46	0.12	0.25	0.02	0.37	0.13	0.40	0.10	*1	*1	-	-	-
2008	5.74	0.38	0.081	0.27	0.12	0.17	0.10	0.19	0.07	0.26	0.15	0.001	-	-	-	-

Table 6.5(14) Annual mean values of each parameters from 2004 to 2008 at Pereemnaya River (Russia)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2004	6.55	3.93	0.135	7.18	0.76	0.23	0.03	1.10	0.77	3.23	0.94	0.008	0.002	-	-	2.0
2005	6.80	4.03	0.135	7.84	0.66	0.20	0.03	0.96	0.71	3.29	1.04	0.002	0.005	-	0.8	-
2006	6.74	3.95	0.140	7.49	0.81	0.20	0.04	1.07	0.75	3.36	1.02	0.004	0.002	1.5	1.1	-
2007	6.59	4.21	0.135	8.98	0.91	0.18	0.11	1.06	0.76	3.92	0.85	0.004	0.003	1.6	1.0	-
2008	6.68	4.87	0.155	9.77	1.03	0.13	0.03	0.93	0.60	4.78	1.05	0.007	0.002	1.0	0.8	-

Table 6.5(15) Annual mean values of each parameters from 2005 to 2008 at Komarovka River (Russia)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2005	7.24	8.75	0.495	11.18	0.33	3.09	0.15	3.34	0.60	9.07	2.25	*1	*1	-	-	-
2006	7.08	8.37	0.428	9.02	0.26	3.12	0.08	3.10	0.57	8.51	2.27	0.014	0.003	-	-	-
2007	7.15	8.68	0.395	10.51	0.26	4.03	0.09	3.39	0.65	8.04	2.34	0.010	0.025	-	4.3	-
2008	7.22	8.68	0.391	12.08	0.52	3.06	0.09	3.80	0.62	8.14	2.08	0.030	0.053	-	3.6	-

- : Items were not analyzed.

*1 : Less than determination limits

Table 6.5(16) Annual mean values of each parameters from 2002 to 2008 at Vachiralongkorn Dam(Ban Pong Chang) (Thailand)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2002	7.52	12.13	0.625	1.15	0.04	0.89	*1	1.14	1.01	13.27	2.98	0.024	*1	-	4.0	5.3
2003	7.45	10.75	0.625	1.29	0.01	0.84	*1	1.14	0.97	16.24	3.52	*1	*1	-	5.8	5.0
2004	7.77	11.53	1.050	1.27	0.20	0.98	0.05	1.18	0.97	15.68	3.26	0.023	0.010	-	7.5	5.6
2005	7.33	11.18	1.276	1.47	0.11	1.05	0.01	1.26	1.02	15.83	3.12	0.010	0.010	-	<4.0*1	3.6
2006	7.21	10.41	1.125	1.31	0.20	0.85	0.06	1.14	1.03	16.24	3.17	<0.01*1	<0.01*1	-	10.0	4.6
2007	7.80	10.41	1.090	1.17	0.20	0.75	0.01	1.21	0.96	16.50	3.26	0.010	0.010	-	5.2	5.1
2008	7.71	10.55	1.178	1.11	0.05	0.75	<0.01*1	1.16	0.97	16.25	3.23	<0.01*1	0.010	-	6.8	4.4

Table 6.5(17) Annual mean values of each parameters from 2002 to 2008 at Vachiralongkorn Dam(Ban Pang Pueng) (Thailand)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2002	7.31	11.98	0.633	1.24	0.06	0.90	*1	1.19	0.99	13.28	2.90	0.034	*1	-	3.0	5.5
2003	7.87	10.50	0.590	1.41	0.01	0.84	*1	1.17	0.98	16.24	2.94	*1	*1	-	7.3	5.8
2004	7.24	11.12	1.005	1.54	0.20	0.95	0.05	1.21	1.03	16.01	2.83	0.020	0.010	-	5.0	8.1
2005	6.98	11.20	1.015	1.29	0.11	1.15	0.03	1.52	1.02	16.16	2.98	0.135	0.010	-	*1	4.4
2006	7.12	10.03	1.046	1.44	0.20	0.83	0.03	1.14	1.04	16.19	2.64	<0.01*1	<0.01*1	-	11.0	5.0
2007	7.84	10.21	1.050	1.25	0.20	0.70	0.01	1.13	0.98	16.75	2.98	0.010	0.010	-	4.0	5.3
2008	7.78	9.88	1.104	1.49	<0.06*1	0.75	<0.01*1	1.17	1.00	15.65	2.49	<0.01*1	0.010	-	4.7	4.4

Table 6.5(18) Annual mean values of each parameters from 2001 to 2008 at Hoa Binh Reservoir (Viet Nam)

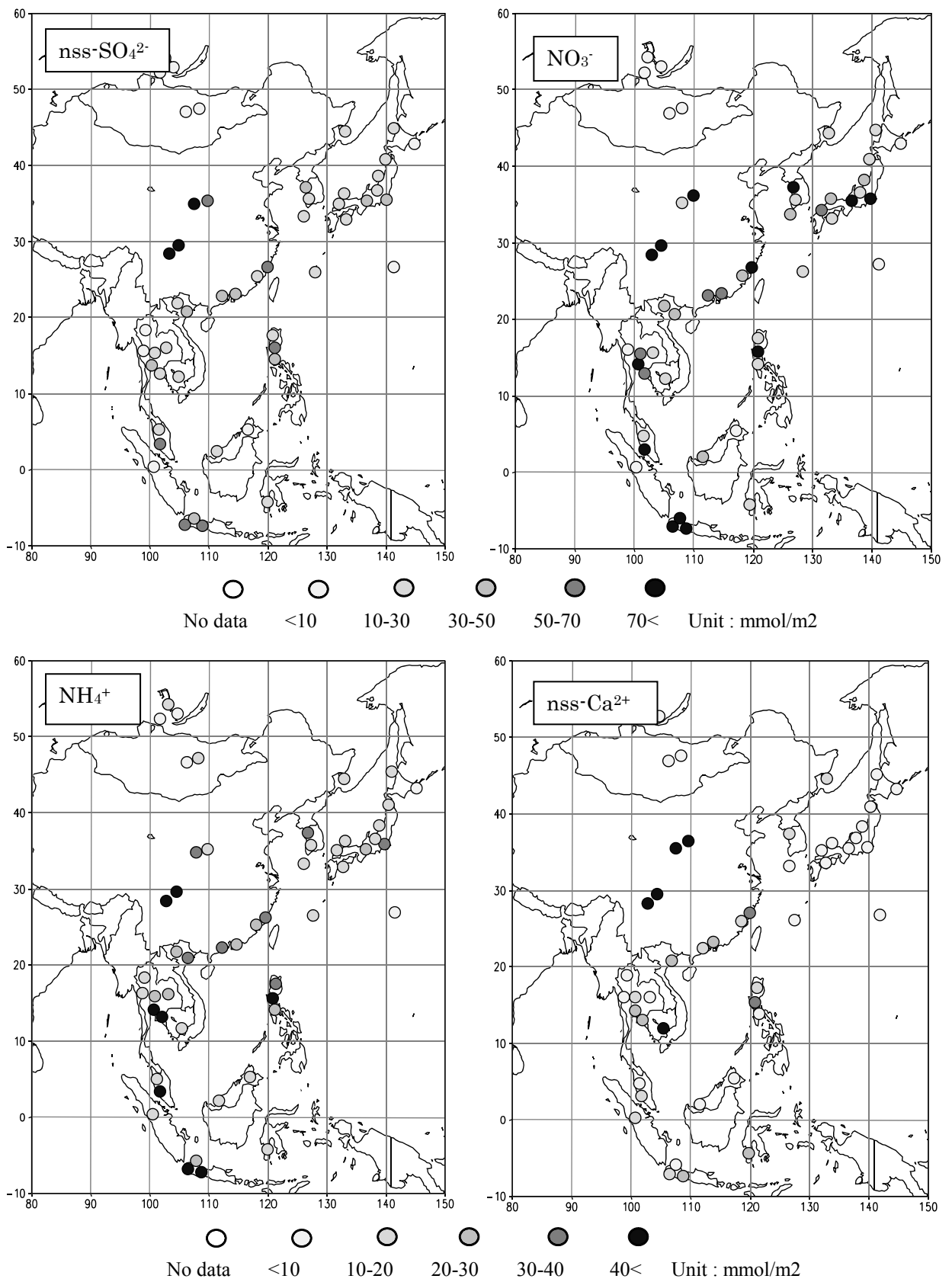
	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2001	7.59	17.40	1.575	5.44	0.59	1.16	0.15	1.97	1.22	21.85	6.12	-	-	-	-	-
2002	7.88	17.14	1.613	3.90	0.46	1.35	0.21	1.70	1.16	22.53	5.49	-	-	-	-	-
2003	7.29	18.41	1.595	6.13	0.63	1.33	0.08	2.14	1.36	24.50	4.78	-	-	-	-	-
2004	6.55	19.27	1.675	4.51	1.16	1.38	0.17	2.45	1.11	27.22	4.11	-	-	-	-	-
2005	7.58	19.01	1.605	5.62	1.04	1.62	0.16	4.40	1.31	23.12	4.77	-	-	-	-	-
2006	7.22	19.08	1.605	7.71	0.87	1.41	0.12	3.62	1.46	25.22	4.87	0.005	0.006	-	2.2	0.7
2007	7.62	19.09	1.613	8.14	1.44	1.54	0.11	3.53	1.48	24.90	4.64	0.015	0.016	-	1.9	0.9
2008	7.73	18.26	1.533	7.36	1.04	1.65	0.04	2.33	0.91	22.90	5.01	0.021	0.025	-	2.2	1.53

- : Items were not analyzed.

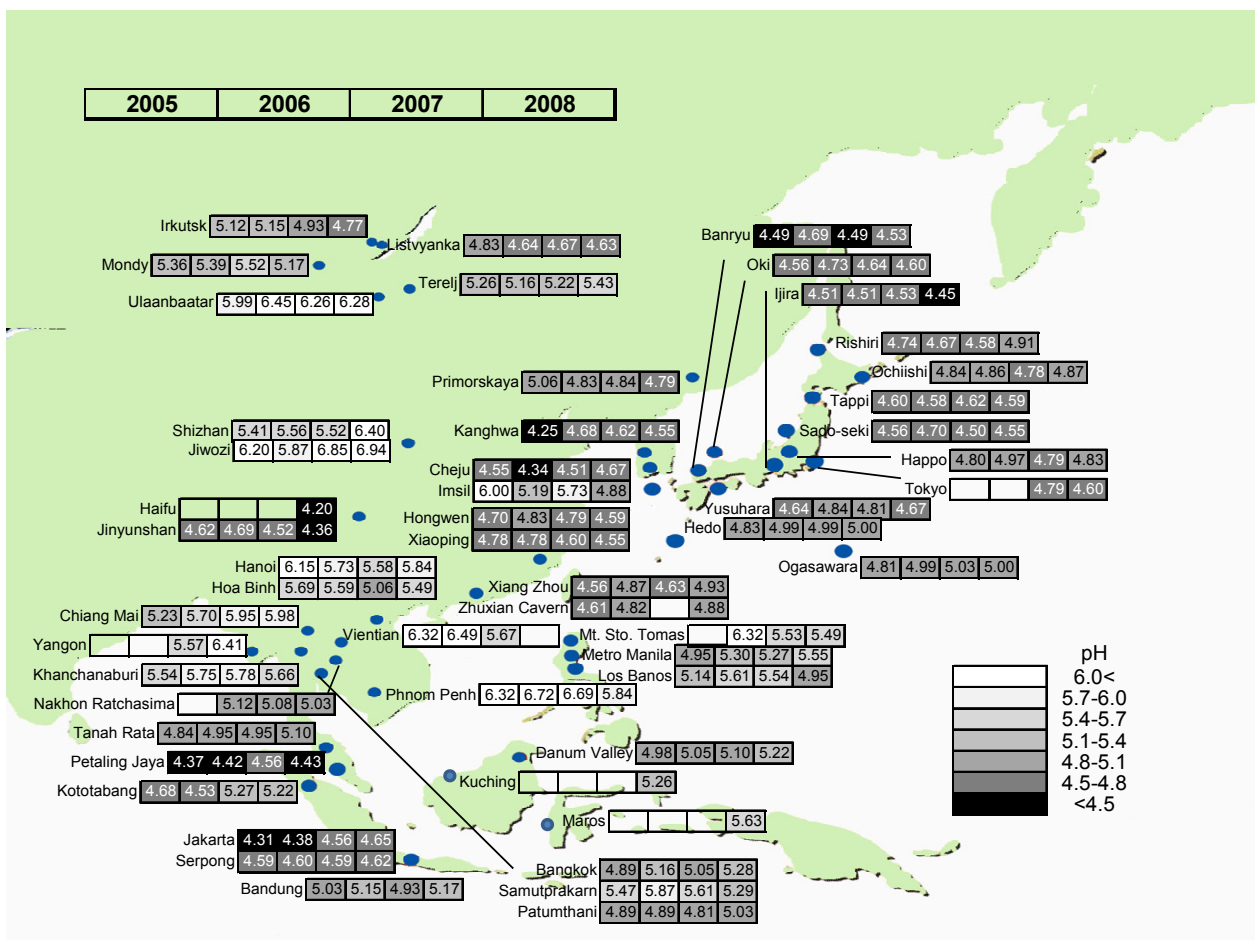
*1 : Less than determination limits

Appendix I

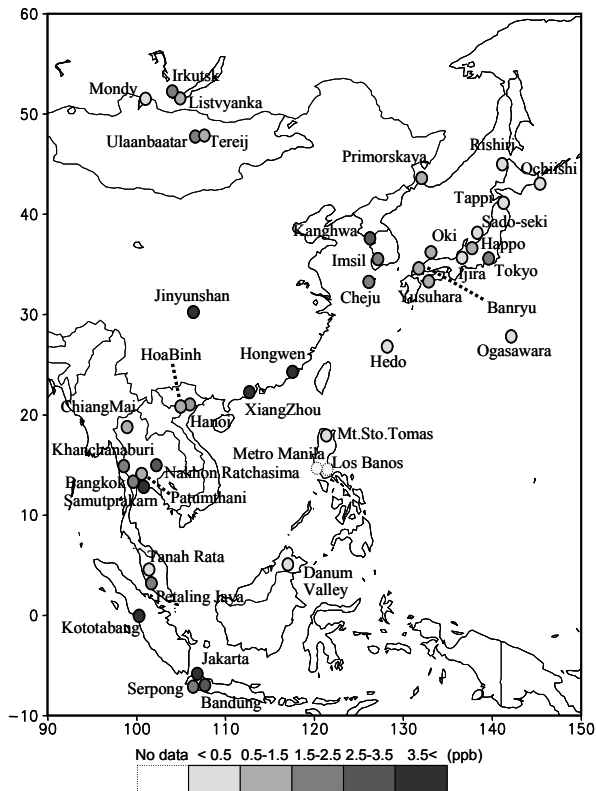
Overview of Data Report 2008



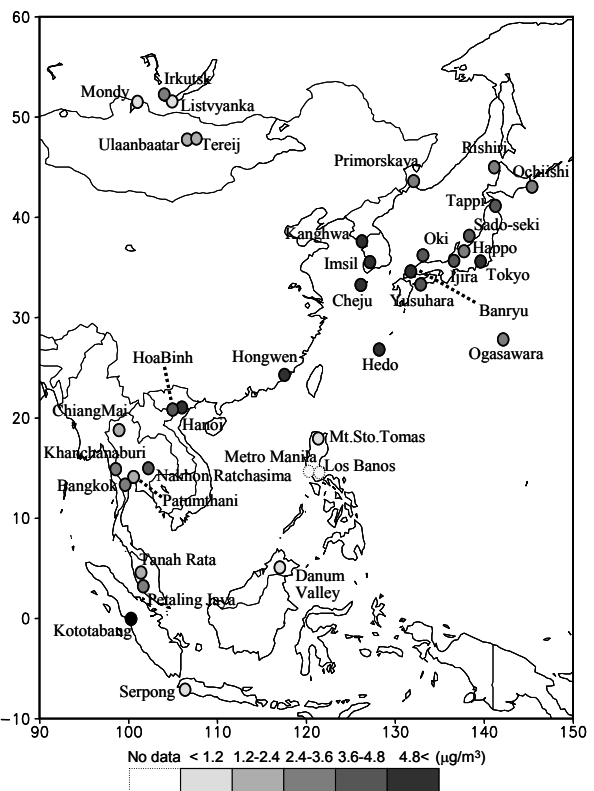
Appendix Fig. 1-1 Annual deposition levels of nss-SO_4^{2-} , NO_3^- , NH_4^+ , nss-Ca^{2+}



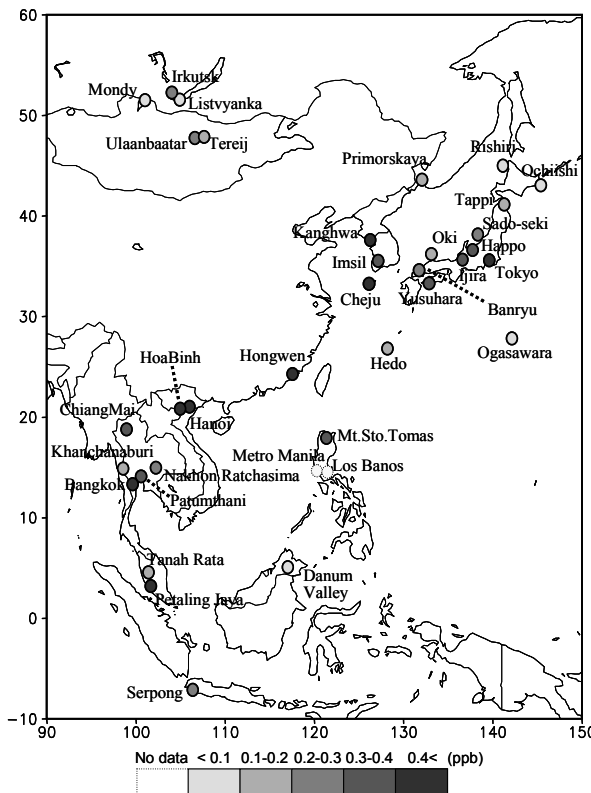
Appendix Fig. 1-2 pH distribution in EANET 2005-2008



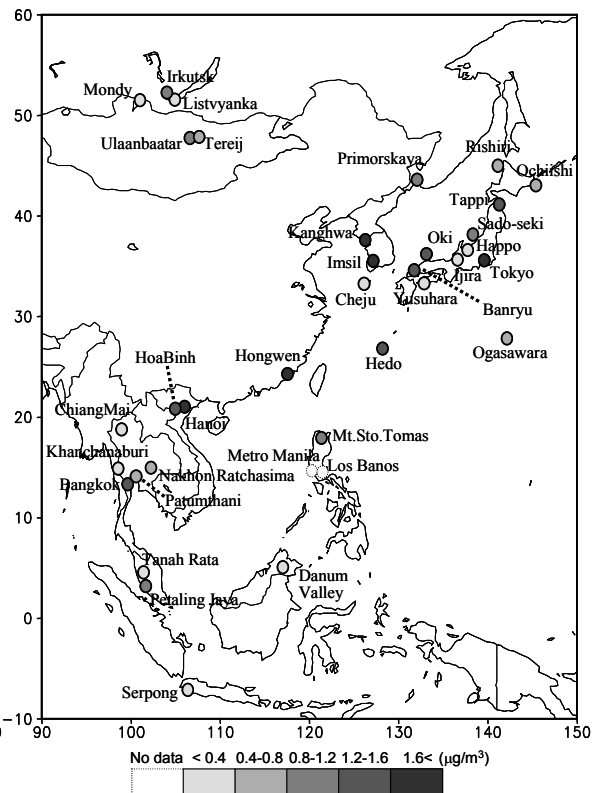
Appendix Fig. 2-1 Levels of annual SO_2 concentration in at EANET monitoring sites in 2008.



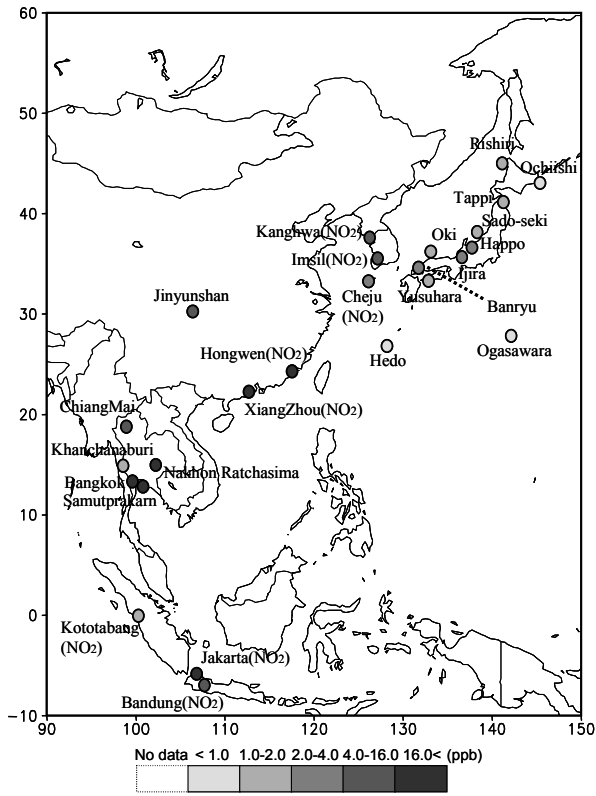
Appendix Fig. 2-2 Levels of annual particulate SO_4^{2-} concentration in at EANET monitoring sites in 2008.



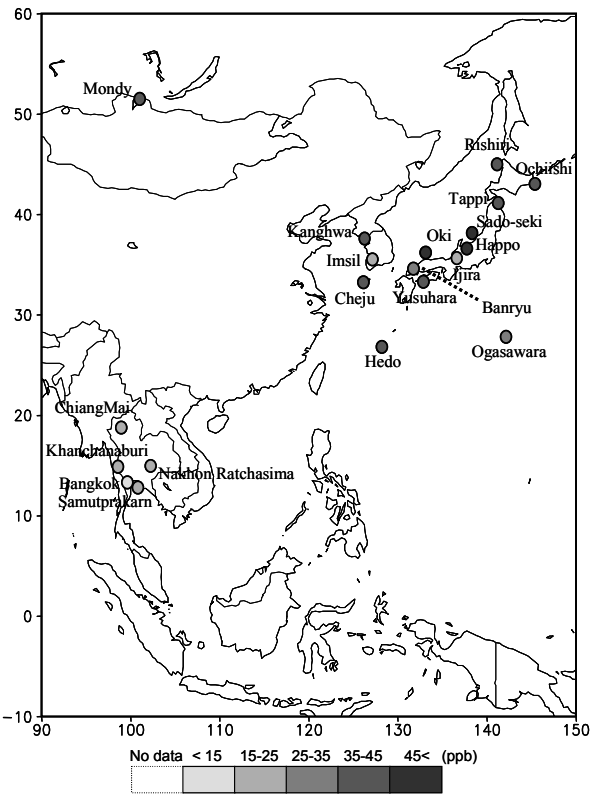
Appendix Fig. 2-3 Levels of annual HNO_3 concentration in at EANET monitoring sites in 2008.



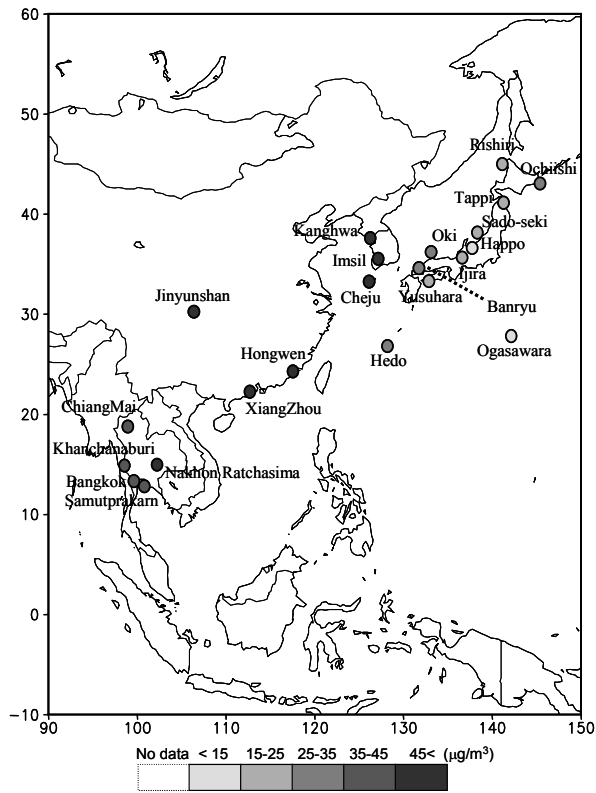
Appendix Fig. 2-4 Levels of annual particulate NO_3^- concentration in at EANET monitoring sites in 2008.



Appendix Fig. 2-5 Levels of annual NO_x or NO₂ concentration at EANET monitoring sites in 2008.

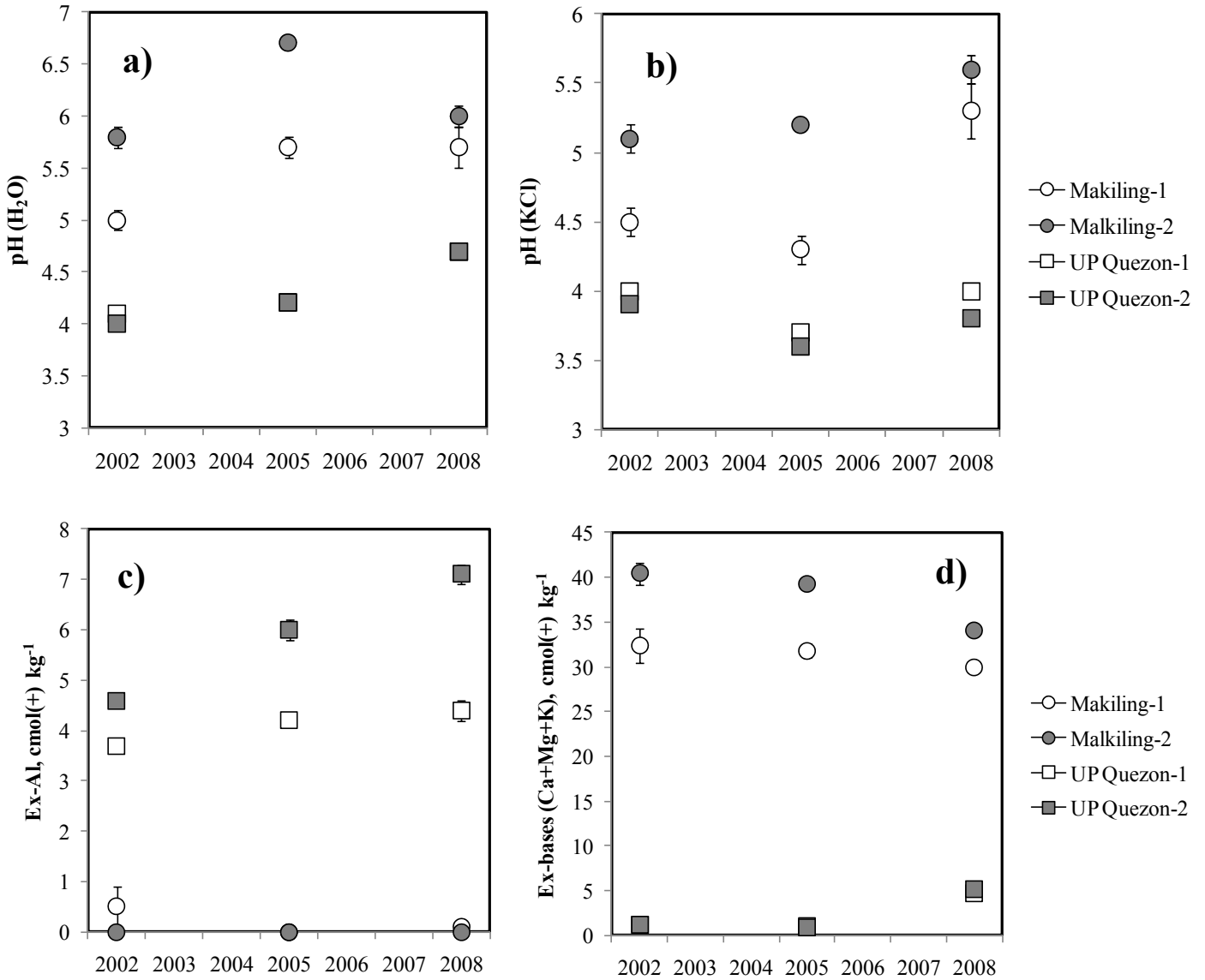


Appendix Fig. 2-6 Levels of annual O₃ concentration at EANET monitoring sites in 2008.



Appendix Fig. 2-7 Levels of annual PM₁₀ concentration at EANET monitoring sites in 2008.

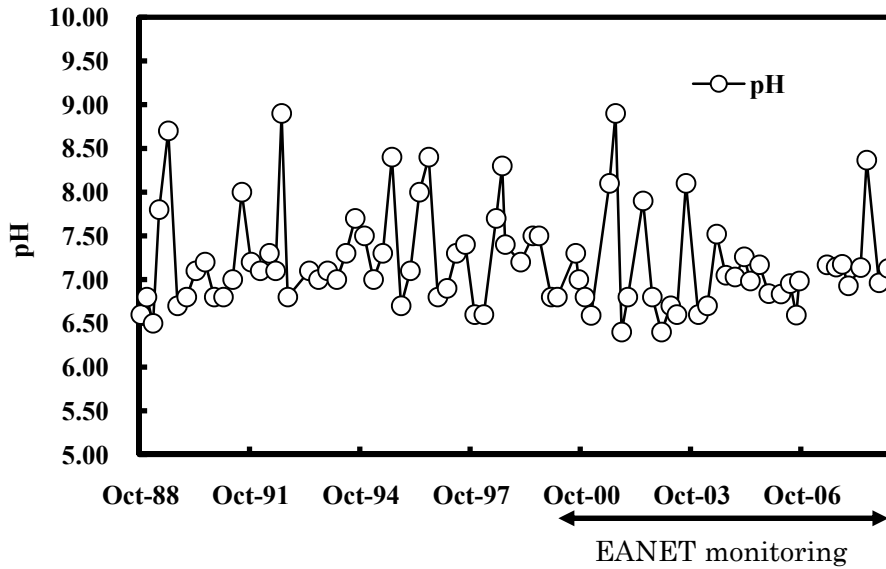
Soil monitoring:



Appendix Fig. 3 Changes in (a) pH (H₂O), (b) pH (KCl), (c) exchangeable Al, and (d) exchangeable bases (Ca+Mg+K) of surface soil (0-5 cm) since 2002 in the plots in Mt. Makiling and UP Quezon Land-Grant, Philippines

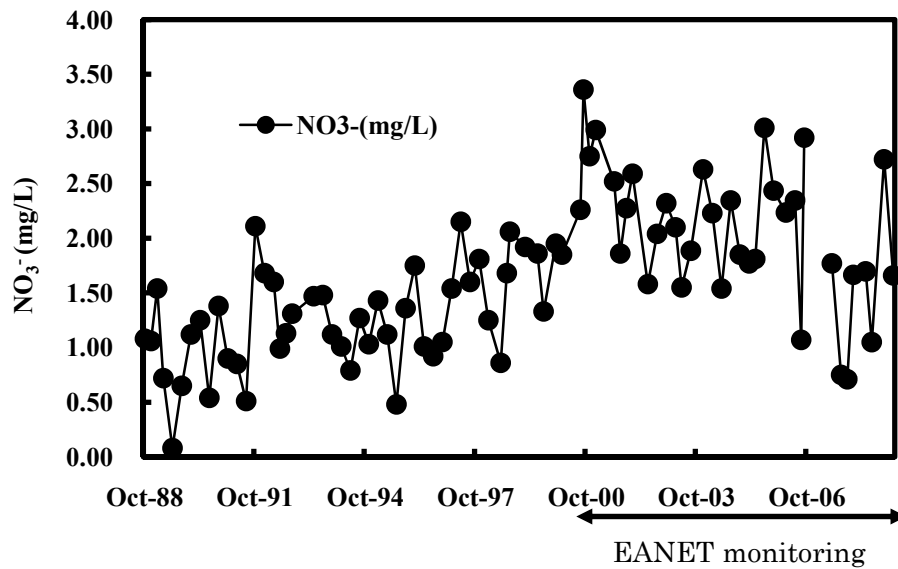
Soil was monitored every three years. Two plots were monitored in Mt. Makiling and UP Quezon, respectively. The numbers beside the site name, 1 and 2, indicate the plot number. Mark and error bar indicate the mean value and standard error of five sub-plots. Ex: exchangeable.

Inland aquatic environment monitoring:



Appendix Fig. 4-1. Long-term trend of pH in Ijira Lake from 1988

Sampling: 4 times a year, the arrow shows the period of the EANET monitoring.



Appendix Fig. 4-2. Long-term trend of nitrate in Ijira Lake from 1988

Sampling: 4 times a year, the arrow shows the period of the EANET monitoring.

[NOTE; The dredge was conducted in March 2007(the blanks in figures). Therefore there is no data in winter 2007.]

Appendix II

Meteorological Statistics at the Monitoring Sites

Appendix Table II-4 Meteorological statistics at the monitoring sites

Meteorological Statistics : Kototabang

2008

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	21.9	21.8	21.6	21.8	22.2	21.8	21.3	21.5	21.4	22.1	21.8	21.4
	max.daily mean	31.9	31.5	32.3	31.6	31.8	31.7	31.0	31.7	29.5	31.2	31.9	28.5
	min.daily mean	16.6	17.6	16.8	17.1	15.7	16.3	15.6	16.5	15.5	15.9	16.0	17.4
Relative humidity (%)	monthly mean	90	88	91	93	89	92	91	91	91	91	92	93
	max.daily mean	97	98	98	99	98	98	100	98	100	97	100	99
	min.daily mean	78	82	84	86	81	86	78	82	82	81	86	86
Mean wind speed (m/s)		1.4	1.6	1.3	0.9	1.3	1.1	1.1	1.1	0.9	0.9	0.7	0.9
Most frequent wind direction (bearings)		SE	SE	SE	NE	NE	SE	SE	SE	SE	NE	N	SE
Precipitation amount (mm/month)		223	143	405	553	133	312	191	424	353	405	174	256
Sunshine duration (hours/month)		-	96	99	124	173	117	139	115	92	124	91	74
Solar radiation (MJ/m ² /month)		175	186	168	171	187	166	165	167	165	167	163	151

Meteorological Statistics : Rishiri

2008

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	-6.3	-4.9	1.1	5.9	9.1	13.7	18.2	18.5	16.9	11.0	3.5	-0.8
	max.daily mean	-2.0	-0.2	6.5	11.7	14.5	19.6	21.1	21.1	20.5	15.9	9.9	7.5
	min.daily mean	-10.5	-9.7	-5.0	0.8	3.0	9.4	15.0	14.7	9.2	4.2	-3.3	-7.1
Relative humidity (%)	monthly mean	70	73	72	74	80	76	89	85	77	73	70	71
	max.daily mean	82	86	90	95	100	100	98	97	95	91	85	90
	min.daily mean	55	61	19	51	41	32	71	62	43	55	57	58
Mean wind speed (m/s)		4.4	4.0	3.6	2.3	2.7	2.7	2.0	2.5	3.0	3.8	4.6	5.0
Most frequent wind direction (bearings)		NW	NNW	ENE	ENE	E	ENE	W	E	W	W	W	NW
Precipitation amount (mm/month)		53	41	15	28	95	32	119	76	110	84	73	91
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		125	226	385	464	478	548	391	431	403	246	126	90

Appendix Table II-5 Meteorological statistics at the monitoring sites

Meteorological Statistics : Ochiishi

2008

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	-6.1	-5.7	-1.7	1.1	4.3	6.9	11.5	14.3	14.9	10.8	3.9	0.2
	max.daily mean	-2.9	-1.4	1.2	4.2	7.1	9.8	14.6	17.8	18.2	13.2	9.4	6.6
	min.daily mean	-11.0	-10.4	-5.1	-3.0	1.3	3.5	6.5	11.4	10.6	5.7	-3.0	-6.6
Relative humidity (%)	monthly mean	65	72	88	89	90	95	97	93	87	80	72	74
	max.daily mean	91	99	100	100	100	100	100	100	100	100	98	100
	min.daily mean	50	53	67	70	68	87	85	78	56	58	44	46
Mean wind speed (m/s)		7.3	8.3	7.0	7.1	7.3	6.7	6.3	6.6	6.9	7.4	8.8	8.8
Most frequent wind direction (bearings)		NW	NW	NNE	NE	WSW	SW	SSW	S	SW	WSW	NW	NW
Precipitation amount (mm/month)		-	-	-	-	-	-	-	-	-	-	-	-
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		246	303	378	448	531	507	446	453	427	311	213	151

Meteorological Statistics : Tappi

2008

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	-1.5	-0.7	4.8	8.8	11.7	15.2	20.0	20.9	20.0	15.2	8.0	3.5
	max.daily mean	2.5	5.3	9.4	14.1	16.9	18.5	23.1	23.4	23.4	19.1	16.4	9.7
	min.daily mean	-5.0	-5.3	-0.2	4.3	8.2	11.2	16.4	15.9	12.0	8.1	0.3	-4.2
Relative humidity (%)	monthly mean	66	67	71	67	76	83	87	81	70	67	63	69
	max.daily mean	83	79	92	88	95	95	94	93	90	82	74	85
	min.daily mean	56	56	47	37	58	55	72	65	49	48	50	56
Mean wind speed (m/s)		9.5	8.4	5.8	6.0	5.7	4.6	3.9	5.1	5.7	6.0	7.8	8.5
Most frequent wind direction (bearings)		WSW	WSW	WSW	WSW	ENE	SW	ENE	ENE	WSW	WSW	WSW	WSW
Precipitation amount (mm/month)		8	31	28	23	35	46	260	144	31	37	71	109
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		102	175	345	480	561	534	428	460	315	262	149	95

Appendix Table II-6 Meteorological statistics at the monitoring sites

Meteorological Statistics : Sado-seki

2008

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	2.0	1.7	6.9	11.5	15.8	18.5	23.7	24.3	21.4	16.9	10.4	7.0
	max.daily mean	7.5	6.6	12.1	19.1	20.8	22.9	27.4	28.2	26.0	21.2	17.5	13.1
	min.daily mean	-1.7	-2.7	2.0	7.1	9.5	13.5	18.1	21.3	14.3	10.3	1.8	-1.9
Relative humidity (%)	monthly mean	70	68	64	64	64	76	80	76	72	68	69	67
	max.daily mean	83	83	83	89	93	91	93	92	88	87	87	89
	min.daily mean	54	52	36	30	40	44	47	58	45	47	55	48
Mean wind speed (m/s)		7.4	8.0	5.1	5.3	4.9	3.0	2.9	3.9	3.5	4.1	6.5	8.2
Most frequent wind direction (bearings)		W	W	W	WSW	SW	NE	SW	NNE	ENE	W	W	W
Precipitation amount (mm/month)		51	25	34	47	72	37	85	155	48	153	154	113
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		116	162	380	491	603	623	528	546	442	318	150	132

Meteorological Statistics : Happo

2008

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	-8.6	-9.8	-4.7	2.8	7.6	11.3	16.5	-	12.5	6.6	-0.2	-3.4
	max.daily mean	0.6	-2.7	3.0	11.4	14.1	14.9	19.0	-	16.7	10.7	8.8	-
	min.daily mean	-14.7	-15.5	-11.5	-6.9	0.9	5.8	12.7	-	2.4	0.3	-8.6	-
Relative humidity (%)	monthly mean	78	73	63	62	66	78	81	86	83	76	74	65
	max.daily mean	91	92	91	94	94	97	94	98	96	97	96	-
	min.daily mean	50	35	23	19	21	51	60	69	56	51	25	-
Mean wind speed (m/s)		5.2	5.7	4.4	4.7	2.8	1.9	1.9	2.0	1.9	2.4	3.6	5.1
Most frequent wind direction (bearings)		NW	NNW	S	S	S	SSE	SSE	SSE	S	SSE	SSE	NW
Precipitation amount (mm/month)		96	83	70	72	144	278	151	311	171	105	139	41
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		293	355	232	591	596	461	375		330	332	265	249

Appendix Table II-7 Meteorological statistics at the monitoring sites

Meteorological Statistics : Ijira

2008

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	2.2	0.8	7.1	12.3	16.2	19.5	24.3	24.0	20.6	15.2	8.5	4.6
	max.daily mean	6.0	4.0	11.1	17.5	19.9	21.8	27.7	27.0	24.1	18.7	14.2	8.5
	min.daily mean	-0.7	-1.7	1.5	5.5	11.2	15.7	20.5	19.8	13.3	9.5	2.1	-0.3
Relative humidity (%)	monthly mean	79	83	74	74	78	85	85	87	87	90	90	90
	max.daily mean	98	97	95	97	96	96	96	96	97	97	98	97
	min.daily mean	48	67	57	51	52	60	77	77	66	78	74	78
Mean wind speed (m/s)		0.5	0.5	0.8	0.8	0.5	0.4	0.4	0.4	0.3	0.3	0.4	0.4
Most frequent wind direction (bearings)		W	W	W	W	W	W	W	W	W	W	W	W
Precipitation amount (mm/month)		57	93	156	256	305	340	163	251	213	239	115	66
Sunshine duration (hours/month)													
Solar radiation (MJ/m ² /month)		123	261	419	455	470	400	467	420	340	293	221	211

Meteorological Statistics : Oki

2008

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	4.9	3.9	8.4	12.7	16.7	19.0	25.2	25.0	22.1	18.2	12.4	8.5
	max.daily mean	10.4	10.5	13.3	18.8	20.1	23.2	28.0	29.4	25.5	20.9	18.9	14.1
	min.daily mean	1.3	0.5	4.2	10.3	12.0	15.9	19.0	21.3	16.9	13.5	4.8	1.2
Relative humidity (%)	monthly mean	61	57	58	59	57	71	80	76	74	68	63	65
	max.daily mean	84	79	75	84	86	90	88	88	88	85	80	89
	min.daily mean	44	39	42	32	37	50	72	67	48	55	51	53
Mean wind speed (m/s)		4.8	5.5	4.5	4.9	3.6	3.4	3.4	4.6	3.4	3.5	5.2	5.3
Most frequent wind direction (bearings)		N	N	NNE	NNE	S	NNE	S	NNE	NNE	ESE	WSW	S
Precipitation amount (mm/month)		92	88	59	107	129	81	23	131	79	60	120	134
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		175	223	324	-	-	485	586	537	433	386	209	149

Appendix Table II-8 Meteorological statistics at the monitoring sites

Meteorological Statistics : Banryu

2008

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	5.1	4.2	8.4	-	16.7	19.0	25.2	25.0	22.1	18.2	8.0	7.5
	max.daily mean	11.5	8.5	14.2	-	20.1	23.2	28.0	29.4	25.5	20.9	15.7	12.3
	min.daily mean	2.3	1.8	3.0	-	12.0	16.3	19.0	21.3	16.9	13.5	-1.4	1.7
Relative humidity (%)	monthly mean	76	68	77	-	57	71	80	76	74	68	79	74
	max.daily mean	94	91	96	-	86	90	88	88	88	85	99	90
	min.daily mean	56	44	57	-	37	50	72	67	48	55	48	49
Mean wind speed (m/s)		3.1	3.8	3.2	-	3.6	3.4	3.4	4.6	3.4	3.5	8.0	2.8
Most frequent wind direction (bearings)		S	S	S	-	S	NNE	S	NNE	NNE	ESE	N	S
Precipitation amount (mm/month)		95	75	174	-	129	81	23	131	79	60	173	134
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		184	245	400	-	-	485	586	537	433	386	270	185

Meteorological Statistics : Yusuhara

2008

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	2.1	-0.1	6.1	10.7	15.1	17.7	23.0	22.2	22.5	17.5	11.2	4.2
	max.daily mean	9.4	5.5	10.2	15.4	19.8	21.2	25.1	25.3	25.4	21.0	16.7	9.9
	min.daily mean	-3.9	-4.0	-0.7	4.7	10.2	13.0	18.0	19.0	16.3	13.9	4.8	-3.5
Relative humidity (%)	monthly mean	74	70	69	70	76	87	83	85	85	78	75	76
	max.daily mean	99	96	99	99	98	98	99	95	96	90	94	95
	min.daily mean	26	45	31	40	27	47	74	68	59	58	59	60
Mean wind speed (m/s)		2.6	3.2	2.4	2.3	1.5	1.4	1.3	1.4	2.5	2.6	2.8	2.4
Most frequent wind direction (bearings)		N	N	N	N	SSE	NNW	SSE	NNW	S	S	S	NNW
Precipitation amount (mm/month)		163	83	201	163	302	318	150	132	60	26	101	34
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		257	379	495	558	570	418	659	528	432	398	219	268

Appendix Table II-9 Meteorological statistics at the monitoring sites

Meteorological Statistics : Hedo

2008

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	17.5	15.2	17.7	20.2	22.7	26.3	28.2	27.9	26.7	25.0	21.3	17.7
	max.daily mean	21.3	20.3	20.5	24.0	26.5	28.5	29.3	29.2	27.9	26.6	25.0	20.1
	min.daily mean	13.4	11.7	13.1	17.0	18.8	23.5	26.4	26.6	25.3	21.7	17.1	14.6
Relative humidity (%)	monthly mean	73	66	67	74	80	83	78	77	82	77	72	65
	max.daily mean	93	84	90	91	91	91	88	84	92	90	92	87
	min.daily mean	51	49	47	56	56	77	71	66	60	59	51	52
Mean wind speed (m/s)		4.9	5.9	4.8	4.3	4.0	3.2	3.3	3.1	3.4	4.2	4.8	4.9
Most frequent wind direction (bearings)		N	N	NNW	ESE	ESE	SSW	S	SSW	SE	ENE	N	N
Precipitation amount (mm/month)		111	134	78	63	280	206	55	125	299	351	182	30
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		205	233	463	495	583	545	769	698	498	447	246	270

Meteorological Statistics : Ogasawara

2008

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	16.8	14.8	16.5	18.2	22.2	24.9	25.1	25.8	25.6	-	21.4	18.0
	max.daily mean	21.6	19.4	18.8	20.9	25.6	26.3	26.9	27.1	27.1	-	25.5	21.2
	min.daily mean	13.1	11.2	13.3	14.8	18.8	23.4	23.0	23.8	24.4	-	16.1	14.4
Relative humidity (%)	monthly mean	78	72	79	85	91	87	86	86	87	-	85	84
	max.daily mean	92	96	97	97	97	94	92	90	92	-	96	96
	min.daily mean	65	59	58	61	82	68	74	83	81	-	72	65
Mean wind speed (m/s)		1.6	1.6	1.6	1.5	2.1	1.5	1.1	1.2	1.2	-	1.4	1.4
Most frequent wind direction (bearings)		SW	W	SW	SSW	SSW	SSW	NE	SSW	SSW	SSW	SSW	SW
Precipitation amount (mm/month)		51	170	219	64	183	89	73	72	53	337	151	197
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		323	320	399	402	455	653	467	599	533	414	325	232

Appendix Table II-10 Meteorological statistics at the monitoring sites

Meteorological Statistics : Petaling Jaya

2008

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	26.8	27.2	26.6	27.0	28.3	27.4	27.8	27.6	27.3	26.9	26.9	26.9
	max.daily mean	28.4	28.5	29.0	29.9	29.7	29.8	29.9	29.5	29.7	29.4	28.7	28.9
	min.daily mean	25.2	24.6	24.6	25.6	26.0	25.5	25.9	25.0	24.0	25.3	25.4	23.6
Relative humidity (%)	monthly mean	77	70	80	81	74	77	72	74	73	80	82	77
	max.daily mean	87	87	89	87	83	84	83	90	90	88	90	93
	min.daily mean	65	58	68	66	64	65	64	63	61	69	73	62
Mean wind speed (m/s)		1.5	1.6	1.6	1.7	1.8	1.7	2.0	1.9	2.0	1.8	1.8	1.6
Most frequent wind direction (bearings)		NE	NE	NE	NE	NE	NE	NE	NE	NE	W	N	NE
Precipitation amount (mm/month)		345	267	330	610	69	299	66	334	273	385	500	273
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		-	-	-	-	-	-	-	-	-	-	-	-

Meteorological Statistics : Tanah Rata

2008

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	17.7	17.2	17.9	18.2	18.1	17.8	17.7	17.6	17.4	18.0	18.0	17.3
	max.daily mean	18.3	18.6	18.7	19.0	19.8	19.3	18.7	19.0	18.7	19.2	19.0	18.4
	min.daily mean	16.5	15.8	16.8	17.0	17.0	16.9	16.3	15.9	15.7	16.5	16.7	16.2
Relative humidity (%)	monthly mean	88	82	87	90	88	89	88	89	87	90	90	89
	max.daily mean	93	95	94	92	92	95	94	94	96	95	95	93
	min.daily mean	78	71	78	82	80	80	78	80	77	83	81	81
Mean wind speed (m/s)		2.1	2.5	2.7	1.6	1.5	1.6	1.3	1.3	2.3	1.9	1.5	2.0
Most frequent wind direction (bearings)		ENE	ENE	ENE	ENE	W	W	W	W	NW	NW	ENE	NE
Precipitation amount (mm/month)		236	120	408	448	248	285	390	340	330	330	560	255
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		405	509	485	388	423	390	384	357	306	-	-	-

Appendix Table II-11 Meteorological statistics at the monitoring sites

Meteorological Statistics : Danum Valley

2008

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	-	-	-	-	-	-	-	-	-	-	-	-
	max.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
	min.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
Relative humidity (%)	monthly mean	-	-	-	-	-	-	-	-	-	-	-	-
	max.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
	min.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
Mean wind speed (m/s)		-	-	-	-	-	-	-	-	-	-	-	-
Most frequent wind direction (bearings)		-	-	-	-	-	-	-	-	-	-	-	-
Precipitation amount (mm/month)		237	249	295	263	338	215	158	150	274	282	233	306
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		-	-	-	-	-	-	-	-	-	-	-	-

Meteorological Statistics : Kuching

2008

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	25.8	25.4	25.5	26.3	27.1	26.4	26.2	26.4	26.4	26.3	26.3	25.7
	max.daily mean	26.8	27.1	27.4	27.8	29.1	28.4	28.7	28.5	28.5	28.0	27.7	27.3
	min.daily mean	24.5	22.5	23.7	23.1	25.2	24.8	24.4	24.0	24.2	24.6	24.8	23.5
Relative humidity (%)	monthly mean	86	87	87	85	82	84	83	82	83	85	86	88
	max.daily mean	94	98	96	97	92	93	90	94	93	92	96	97
	min.daily mean	75	79	80	79	72	73	73	74	75	77	80	81
Mean wind speed (m/s)		1.8	2.0	1.6	1.7	1.7	1.7	1.8	1.8	1.8	1.7	1.7	1.8
Most frequent wind direction (bearings)		NNW	N	N	S	SSE	S	S	S	S	W	W	W
Precipitation amount (mm/month)		466	445	465	251	347	310	184	326	208	307	482	516
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		379	317	426	500	511	455	461	502	471	390	415	393

Appendix Table II-17 Meteorological statistics at the monitoring sites

Meteorological Statistics : Chiang Mai

2008

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	22.0	24.4	27.6	30.0	27.2	27.4	27.1	26.6	26.7	26.5	23.9	21.1
	max.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
	min.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
Relative humidity (%)	monthly mean	67	58	51	57	74	75	75	80	87	84	77	76
	max.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
	min.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
Mean wind speed (m/s)		1.1	1.9	1.4	2.3	1.9	1.9	2.0	1.6	1.7	1.5	1.4	0.8
Most frequent wind direction (bearings)		N	NW	NW	NW	NW	SE		E	NE	NW	NW	NW
Precipitation amount (mm/month)		4	15	13	67	169	108	171	199	212	248	63	4
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		-	-	-	-	-	-	-	-	-	-	-	-

Meteorological Statistics : Nakhon Ratchasima

2008

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	24.3	23.9	27.8	28.8	28.5	28.7	28.0	27.5	26.7	26.8	24.9	22.6
	max.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
	min.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
Relative humidity (%)	monthly mean	63	61	58	71	74	74	62	65	68	72	70	65
	max.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
	min.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
Mean wind speed (m/s)		-	-	-	-	-	-	-	-	-	-	-	-
Most frequent wind direction (bearings)		NE,SE	NE	E	W,	SW,	S, SE	W	W	SW	NE	NE	NE
Precipitation amount (mm/month)		2	1	33	132	136	38	69	191	328	111	47	0
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		781	774	773	780	742	715	696	667	580	566	611	630

Network Center for EANET

Acid Deposition and Oxidant Research Center (ADORC)

1182 Sowa, Nishi-ku, Niigata-shi, 950-2144, Japan

Phone +81-25-263-0550

FAX +81-25-263-0566

E-mail eanetdata@adorc.gr.jp

URL <http://www.adorc.gr.jp>

