

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

Data Report 2007

October 2008

Network Center for EANET

Table of Contents

	Page
1. Introduction	1
2. Network Description	5
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 Measurements	17
3.1.5 Overview of the Statistics and Definitions	18
3.1.6 Terms and Abbreviations	21
3.1.7 Monitoring Sites	22
3.2 Results of Monitoring	25
4. Dry Deposition (Air Concentration) Monitoring	129
4.1 Method	131
4.1.1 Automatic Monitoring Method	131
4.1.2 Filter Pack Method	131
4.1.3 Monitoring Sites	131
4.2 Results of Monitoring	136
5. Soil and Vegetation Monitoring	171
5.1 Method	173
5.1.1 Field Operation	173
5.1.2 Laboratory Operation	175
5.1.3 Monitoring Sites	176
5.2 Results of Monitoring	176
6. Inland Aquatic Environment Monitoring	189
6.1 Method	191
6.1.1 Selection of Sampling Sites	191
6.1.2 Field Operation	191
6.1.3 Laboratory Operation	192
6.1.4 Monitoring Sites	193
6.2 Results of Monitoring	194
Appendix : Meteorological Statics at the Monitoring Sites	231

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 2007, which contains the monitoring data from the participating countries at the Eighth Session of Scientific Advisory Committee (SAC8), held in October 2008. The draft Data Report was considered at SAC8 by the experts from participating countries. Following the comments and guidance at SAC8, NC has elaborated and finalized the report.

The Data Report 2007 contains the data obtained from monitoring activities carried out in 2007.

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	- 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	- 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	- 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	- 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	- 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 2007

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 2007. Monitoring data was submitted from a total of 50 monitoring sites, including 20 remote, 11 rural and 19 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](#).

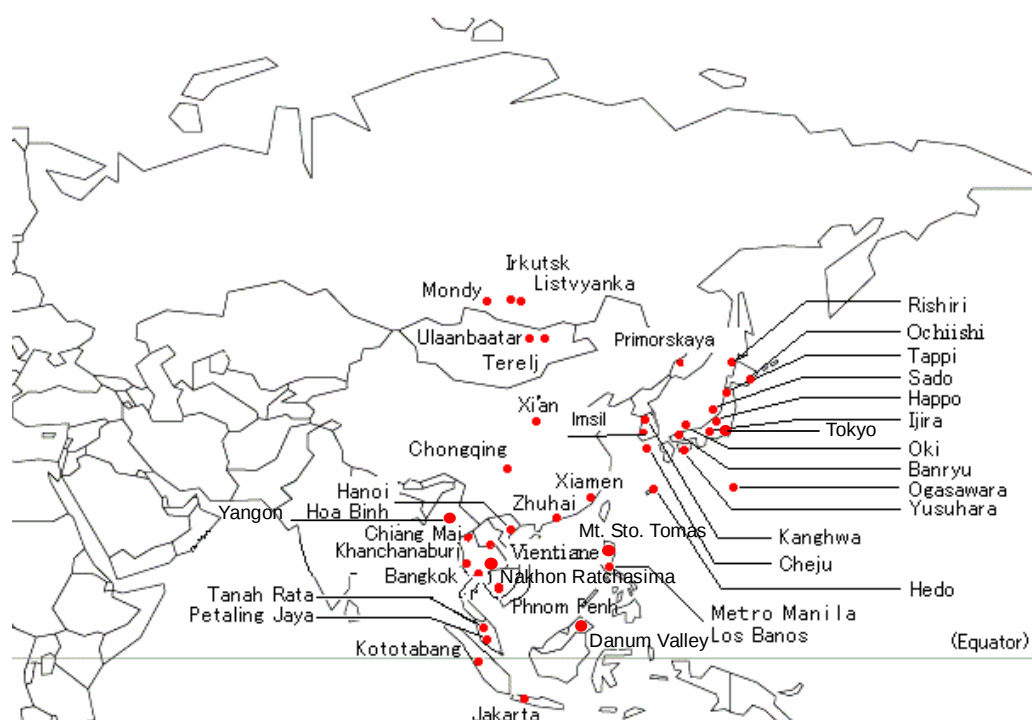


Figure 2.1 Locations of EANET Sites in 2007

(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-Guanyinqiao	Urban	29° 34' N	106° 31' E	262m
	- 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
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
	Okii	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
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	
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

Country	Name of sites	Characteristics of sites	Latitude	Longitude	Height above sea
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	Remote	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 34 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 21 sites, while 18 sites used automatic instruments to monitor ozone concentration. Concentrations of particulate matter as PM₁₀ were measured by automatic or manual instruments at 19 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-Guanyinqiao	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	None
Indonesia	Jakarta	Urban	✓	None	None	None	PS
	Serpong	Rural	✓	None	None	None	✓
	Kototabang	Remote	✓	None	None	None	PS
	Bandung	Urban	✓	None	None	None	None
Japan	Rishiri	Remote	✓	✓	✓	✓	✓
	Ochiishi	Remote	✓	None	None	None	None
	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	✓
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	✓	✓	✓	✓	✓
Russia	Mondy	Remote	✓	None	✓	None	✓
	Listvyanka	Rural	✓	None	None	None	✓
	Irkutsk	Urban	✓	None	None	None	✓
	Primorskaya	Rural	✓	None	None	None	✓

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

(Note 1) PS: Passive sampler

(Note 2) Monitoring by filter pack method started at Tokyo in April, 2007, and wet deposition monitoring started at Yangon in January, 2007.

Two new sites, Tokyo and Yangon, started the monitoring on wet (Tokyo and Yangon) and dry deposition (Tokyo) in 2007. Outline of the new sites are as follows;

[Tokyo]

Address : 2-1 Kitanomaru Koen, Chiyoda-ku, Tokyo, 102-0091 Japan

Site classification : Urban

Latitude : North, 35°41'31" Longitude : East, 139°45' 36" Altitude : 20m

Instruments : Wet-only Sampler (US-420), Filter-pack Sampler

[Yangon]

Address : Department of Meteorology and Hydrology

Mayangone, 11061, Kaba-Aye Pagoda Road, Yangon, Myanmar

Site classification : Urban

Latitude : North, 16° 30' Longitude : East, 96° 07' Altitude : 21.7m

Instruments : Wet-only Sampler (US-330)

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](#).

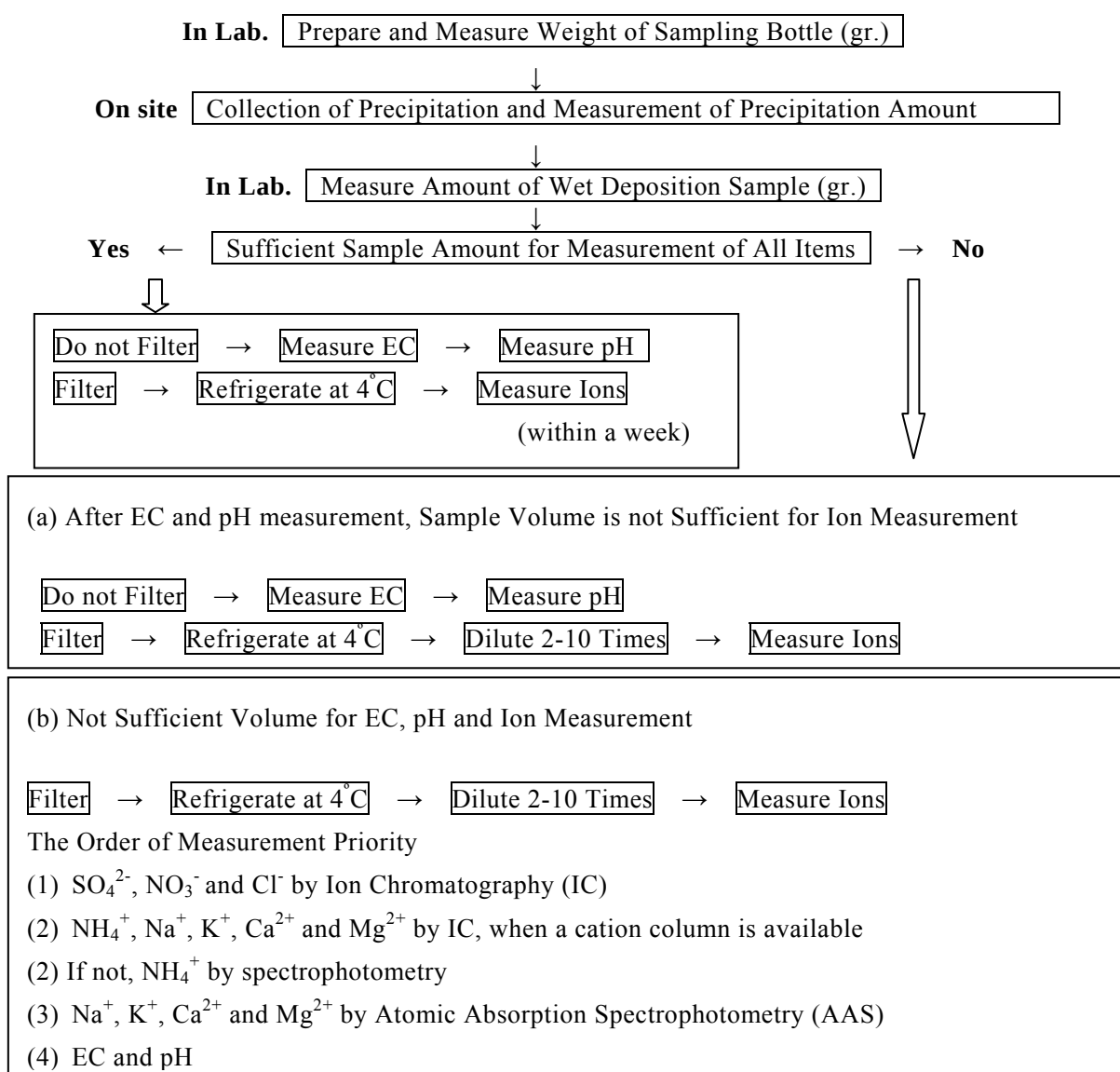


Figure 3.1 Flow Chart of Sampling and Chemical Analysis of Wet Deposition

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^+ , Ca^{2+} , and Mg^{2+} , and Spectrophotometry for NH_4^+ 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:

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

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 ($\mu\text{mol/L}$)

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.

Required criteria for R_1 :

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

Table 3.2 Required criteria for R₁

(C+A) (μeq/L)	R ₁ (%)
<50	± 30
50 – 100	± 15
>100	± 8

Conductivity agreement (R₂) :

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 (μmol/L)

Λ_i^0 : the molar conductivity at infinite dilution and 25°C (Scm²/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 (μmol/L)

The constants are the molar conductivity of the individual ion at infinite dilution at 25°C (Scm²/mol).

Required criteria for R₂ :

The required conductivity comparison criteria are given in Table 3.3.

Table 3.3 Required criteria for R₂

Λ_{meas} (mS/m)	R ₂ (%)
<0.5	± 20
0.5 – 3	± 13
>3	± 9

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<80%]
- [**]: Precipitation was not measured. [%PCL<80%]
- [***]: 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] : $<0.1\mu\text{mol/L}$
- 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
 - SO_4^{2-} , nss- SO_4^{2-} , NO_3^- , Cl^- , NH_4^+ , Na^+ , K^+ : $<1.0\mu\text{mol/L}$
 - Ca^{2+} , nss- Ca^{2+} : $<0.2\mu\text{mol/L}$
 - Mg^{2+} : $<0.4\mu\text{mol/L}$
- iii) For deposition,
 - [0.00] : Deposition amount is zero. (Precipitation was 0 mm.)
 - [<0.01] : $<0.01\text{mmol/m}^2$

Results of ion balance (R_1) and conductivity agreement check (R_2),

- Sample (N) : Number of samples
- R_1 (N) : Number of samples measured and calculated ion balance (R_1)
- R_1 (AA) : Number of samples within allowable ranges for R_1
- R_2 (N) : Number of samples measured and calculated conductivity agreement (R_2)
- R_2 (AA) : Number of samples within allowable ranges for R_2
- $R_1\&R_2$ (N) : Number of samples measured and calculated both R_1 and R_2
- $R_1\&R_2$ (AA) : Number of samples within allowable ranges of both R_1 and R_2

3.1.7 Monitoring Sites

Precipitation samples are collected on a daily basis at 37 out of 50 sites, while weekly collecting is performed at 13 sites, as presented in [Table 3.4](#). The analytical methods used for 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	Guanyinqiao (Chongqing)	Urban	Daily	April '99
	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
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
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
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	Remote	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	Guanyinqiao (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
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
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	Remote	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 2007 are shown in [Table 3.6](#) through [Table 3.54](#). The annual summaries of wet deposition monitoring in 2007 are shown in [Table 3.55](#) through [Table 3.57](#).

Results of ion balance (R_1) and the conductivity agreement (R_2) of each monitoring site are shown in [Table 3.58](#). [Figure 3.2](#) to [Figure 3.49](#) 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:

- Guanyinqiao, Jinyunshan, Hongwen and Xiaoping (China): F^-
- Metro Manila, Los Banos and Mt. Sto. Tomas (Philippines): NO_2^-
- Ulaanbaatar and Terelj (Mongolia): HCO_3^-
- Mondy and Primorskaya (Russia): HCO_3^- , NO_2^- , Br^-
- Listvjanka and Irkutsk (Russia): HCO_3^- , NO_2^- , Br^- , F^-

The summaries of annual data from 2000 to 2007 are shown in [Table 3.59](#) through [Table 3.83](#). The site identification codes are given in [Table 3.84](#). 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)

2007	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	9.0	8.5	9.3	7.7	11.0	7.6	2.9	32.4	32.3	3.5	<0.1	7.49	1.24	123.9
Apr	30.6	30.0	35.8	31.5	92.2	10.3	8.9	29.5	29.2	3.7	<0.1	7.22	1.39	42.5
May	14.5	14.1	13.3	7.0	27.5	5.7	1.9	15.0	14.9	1.8	0.2	6.62	0.89	156.4
June	18.0	17.8	6.5	1.9	16.2	2.2	2.2	8.5	8.5	3.1	<0.1	7.14	0.78	213.8
July	25.1	24.5	4.7	15.0	13.2	9.1	3.3	27.3	27.1	1.5	<0.1	7.03	1.05	153.7
Aug	23.6	22.6	5.4	20.8	10.9	15.7	2.7	20.1	19.7	5.4	0.2	6.75	0.75	170.9
Sept	29.1	28.6	8.3	12.4	21.6	9.1	4.5	21.7	21.5	4.8	0.2	6.76	1.02	242.2
Oct	28.0	27.4	4.2	18.2	14.6	8.9	5.6	14.7	14.5	1.6	0.5	6.31	3.56	223.1
Nov	29.4	28.9	6.1	18.0	20.8	8.3	3.3	32.9	32.8	3.0	0.5	6.32	0.62	47.5
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	22.5	22.0	8.3	12.6	19.7	8.2	3.6	19.2	19.1	3.3	0.2	6.69	1.37	1373.9
Max.	40.6	38.1	36.6	54.1	106	40.8	37.5	55.2	54.8	9.3	0.8	7.70	25.8	
Min.	9.0	8.5	1.8	<1.0	<1.0	1.5	1.4	5.8	5.8	<0.4	<0.1	6.12	0.49	

Wet deposition (Monthly)

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

2007	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	1.11	1.06	1.16	0.95	1.36	0.94	0.35	4.02	4.00	0.43	<0.01
Apr	1.30	1.27	1.52	1.34	3.92	0.44	0.38	1.25	1.24	0.16	<0.01
May	2.26	2.21	2.08	1.10	4.30	0.89	0.30	2.35	2.33	0.28	0.04
June	3.84	3.81	1.39	0.41	3.46	0.47	0.46	1.82	1.81	0.66	0.02
July	3.85	3.77	0.73	2.31	2.04	1.39	0.50	4.20	4.17	0.23	0.01
Aug	4.03	3.87	0.93	3.56	1.87	2.69	0.46	3.43	3.37	0.93	0.03
Sept	7.06	6.93	2.01	3.01	5.24	2.20	1.10	5.26	5.22	1.15	0.04
Oct	6.24	6.12	0.93	4.06	3.25	1.98	1.25	3.28	3.24	0.35	0.11
Nov	1.40	1.37	0.29	0.86	0.99	0.39	0.16	1.57	1.56	0.14	0.02
Dec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	30.9	30.2	11.3	17.4	27.0	11.3	5.00	26.4	26.2	4.49	0.28

Data completeness (Monthly)

2007	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	40	40	40	40	40	40	40	40	40	40	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	93	93	93	93	93	93	93	93	93	93	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 3.7 Monthly results

Site: Guanyinqiao

Country: China

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	496	494	213	67.5	437	23.6	39.1	328	327	35.4	35.1	4.45	17.5	16.1
Feb	363	363	84.7	40.4	481	12.6	28.9	128	128	16.6	40.8	4.39	13.0	24.4
Mar	435	431	147	86.3	449	65.0	34.8	307	306	69.4	15.6	4.81	16.0	29.7
Apr	184	183	81.8	18.2	196	10.3	11.4	129	129	14.3	8.5	5.07	7.14	110.7
May	132	131	47.1	13.8	141	8.3	7.9	101	101	11.0	1.5	5.82	4.60	79.8
June	109	109	45.1	9.8	154	2.9	6.1	45.7	45.7	5.0	17.5	4.76	4.40	206.9
July	51.8	51.7	17.9	5.6	47.4	1.7	3.1	29.2	29.1	3.1	23.5	4.63	2.27	471.6
Aug	109	109	42.5	16.4	99.9	5.0	9.2	81.1	81.0	6.2	21.4	4.67	4.38	85.5
Sept	93.2	93.1	23.6	4.4	85.8	1.8	3.3	49.1	49.1	3.9	32.7	4.49	3.56	133.8
Oct	183	182	83.2	22.4	258	7.9	20.0	99.3	99.1	9.1	20.9	4.68	7.25	79.5
Nov	282	281	123	28.6	338	11.1	22.3	112	112	12.5	74.2	4.13	11.0	31.8
Dec	664	663	225	50.3	467	24.7	39.5	406	405	28.2	42.6	4.37	21.2	28.8
Annual	130	130	48.8	13.8	140	5.9	8.8	75.2	75.1	8.0	22.6	4.65	5.01	1298.6
Max.	4050	4050	1560	358	2190	218	242	2620	2620	194	229	7.23	83.0	
Min.	21.9	21.8	2.3	1.2	12.7	<1.0	1.3	12.0	12.0	1.3	<0.1	3.64	1.09	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	7.98	7.96	3.43	1.09	7.04	0.38	0.63	5.27	5.27	0.57	0.56
Feb	8.86	8.85	2.07	0.98	11.7	0.31	0.71	3.12	3.12	0.40	1.00
Mar	12.9	12.8	4.36	2.56	13.3	1.93	1.03	9.12	9.08	2.06	0.46
Apr	20.3	20.3	9.05	2.01	21.7	1.13	1.26	14.3	14.2	1.59	0.94
May	10.5	10.5	3.76	1.10	11.3	0.66	0.63	8.08	8.07	0.88	0.12
June	22.6	22.6	9.34	2.04	31.9	0.60	1.27	9.46	9.45	1.03	3.62
July	24.4	24.4	8.43	2.62	22.3	0.82	1.48	13.8	13.7	1.45	11.1
Aug	9.35	9.33	3.63	1.41	8.54	0.43	0.79	6.93	6.92	0.53	1.83
Sept	12.5	12.5	3.15	0.59	11.5	0.24	0.44	6.57	6.57	0.52	4.37
Oct	14.5	14.5	6.62	1.78	20.5	0.63	1.59	7.90	7.88	0.72	1.67
Nov	8.96	8.94	3.91	0.91	10.8	0.35	0.71	3.56	3.55	0.40	2.36
Dec	19.1	19.1	6.47	1.45	13.4	0.71	1.14	11.7	11.7	0.81	1.23
Annual	169	169	63.3	17.9	181	7.69	11.4	97.7	97.5	10.4	29.3

Data completeness (Monthly)

2007	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	72	72	72	72	72	72	72	72	72	72	72	72	72	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	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 3.8 Monthly results

Site: Jinyunshan

Country: China

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	296	295	81.0	27.2	182	15.1	25.5	224	223	7.3	53.8	4.27	11.0	22.6
Feb	308	306	106	24.5	295	20.2	27.8	181	180	12.1	57.0	4.24	11.9	23.4
Mar	206	205	67.1	20.4	150	13.0	10.9	119	119	7.8	39.8	4.40	8.33	53.6
Apr	138	138	50.5	12.7	129	9.8	8.6	90.1	89.9	8.7	28.3	4.55	5.68	122.5
May	103	103	33.9	10.7	127	6.8	7.3	60.2	60.0	4.4	16.6	4.78	4.06	129.6
June	66.8	66.5	22.9	6.3	60.5	4.6	4.1	33.7	33.6	1.6	30.6	4.51	2.89	298.2
July	47.2	47.0	17.2	4.6	34.3	3.5	3.2	26.3	26.2	1.1	25.5	4.59	2.06	535.3
Aug	68.0	67.6	26.7	8.2	50.6	6.4	4.9	53.0	52.9	1.9	23.1	4.64	2.79	112.2
Sept	75.7	75.4	14.9	7.2	52.6	5.7	5.2	44.9	44.8	1.2	32.0	4.49	3.45	139.4
Oct	84.0	83.6	30.5	11.2	58.7	7.2	11.1	65.0	64.8	2.1	24.7	4.61	3.61	133.6
Nov	200	199	59.5	15.1	114	10.3	13.7	118	118	3.5	62.4	4.20	7.65	35.6
Dec	345	344	167	25.3	313	16.1	32.1	205	205	9.0	102	3.99	14.2	38.7
Annual	90.4	90.0	31.5	8.7	75.2	6.2	6.8	55.1	55.0	2.8	30.0	4.52	3.76	1644.7
Max.	1480	1470	531	150	880	66.1	99.2	1190	1190	39.9	182	6.26	38.0	
Min.	23.4	23.2	4.7	2.2	5.0	2.0	1.3	11.7	11.6	0.4	0.5	3.74	1.26	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	6.69	6.67	1.83	0.61	4.11	0.34	0.58	5.06	5.05	0.16	1.22
Feb	7.20	7.17	2.47	0.57	6.91	0.47	0.65	4.23	4.22	0.28	1.33
Mar	11.0	11.0	3.60	1.09	8.06	0.70	0.58	6.37	6.35	0.42	2.13
Apr	16.9	16.9	6.19	1.56	15.7	1.20	1.06	11.0	11.0	1.06	3.47
May	13.3	13.3	4.39	1.38	16.5	0.88	0.95	7.80	7.78	0.57	2.15
June	19.9	19.8	6.82	1.87	18.0	1.38	1.22	10.1	10.0	0.49	9.12
July	25.3	25.2	9.18	2.44	18.4	1.86	1.70	14.1	14.0	0.57	13.7
Aug	7.63	7.59	2.99	0.92	5.68	0.72	0.55	5.95	5.93	0.21	2.59
Sept	10.6	10.5	2.08	1.00	7.33	0.80	0.73	6.26	6.25	0.17	4.46
Oct	11.2	11.2	4.08	1.50	7.85	0.96	1.49	8.68	8.66	0.28	3.29
Nov	7.11	7.08	2.12	0.54	4.05	0.37	0.49	4.20	4.19	0.12	2.22
Dec	13.3	13.3	6.48	0.98	12.1	0.62	1.24	7.95	7.93	0.35	3.94
Annual	149	148	51.8	14.3	124	10.2	11.1	90.7	90.4	4.61	49.4

Data completeness (Monthly)

2007	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	94	94	94	94	94	94	94	94	94	94	94	94	94	100
Feb	95	95	95	95	95	95	95	95	95	95	95	95	95	100
Mar	82	82	82	82	82	82	82	82	82	82	82	82	82	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	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 3.9 Monthly results

Site: Shizhan

Country: China

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
May	295	293	87.1	40.7	306	41.3	23.0	261	260	27.5	0.4	6.40	15.2	32.8
June	133	132	56.1	28.5	223	12.7	17.7	91.4	91.1	16.8	0.3	6.47	5.79	57.6
July	135	134	60.5	26.6	151	4.4	4.6	93.9	93.8	9.0	1.0	6.01	5.52	194.2
Aug	139	138	55.2	45.4	147	30.3	24.8	133	132	24.3	9.4	5.03	4.39	118.0
Sept	438	437	185	51.9	416	11.0	14.1	145	145	30.7	4.4	5.35	15.3	56.3
Oct	177	176	76.9	67.3	227	15.8	54.9	79.0	78.6	44.9	0.2	6.66	7.67	68.4
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	183	182	75.9	39.9	206	15.6	19.3	116	116	21.4	3.0	5.52	7.21	527.3
Max.	1600	1590	606	313	1280	159	534	566	565	542	28.8	7.67	50.0	
Min.	55.3	54.3	18.9	15.5	34.9	<1.0	2.8	25.9	25.7	3.7	<0.1	4.54	2.38	

Wet deposition (Monthly)

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

2007	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May	9.68	9.60	2.86	1.34	10.1	1.36	0.75	8.56	8.53	0.90	0.01
June	7.64	7.59	3.23	1.64	12.9	0.73	1.02	5.26	5.25	0.97	0.02
July	26.1	26.1	11.7	5.17	29.3	0.86	0.90	18.2	18.2	1.74	0.19
Aug	16.5	16.2	6.51	5.35	17.4	3.57	2.92	15.7	15.6	2.87	1.11
Sept	24.7	24.6	10.4	2.92	23.4	0.62	0.79	8.18	8.17	1.73	0.25
Oct	12.1	12.1	5.26	4.60	15.6	1.08	3.76	5.40	5.38	3.07	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	96.7	96.2	40.0	21.0	109	8.22	10.2	61.3	61.2	11.3	1.60

Data completeness (Monthly)

2007	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
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 3.10 Monthly results

Site: Jiwozi

Country: China

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	419	405	165	114	157	233	47.6	568	563	97.7	<0.1	7.87	24.0	0.5
May	189	183	75.4	48.3	33.4	98.7	38.4	257	255	92.4	<0.1	7.19	10.9	11.5
June	245	240	69.3	39.6	36.5	87.3	30.4	241	239	102	<0.1	7.06	10.5	17.0
July	175	171	72.4	45.5	<1.0	60.2	15.8	291	290	16.2	0.2	6.72	10.2	27.5
Aug	143	139	53.6	38.3	<1.0	72.5	22.3	295	293	25.6	0.2	6.71	9.48	13.1
Sept	135	129	57.7	43.7	<1.0	113	35.4	476	473	37.2	0.2	6.81	9.94	15.3
Oct	190	184	64.6	46.5	<1.0	101	37.2	564	562	45.2	0.1	6.91	10.5	15.1
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	182	177	66.8	44.1	11.2	85.8	28.0	347	345	48.8	0.1	6.85	10.3	100.0
Max.	461	446	180	122	204	245	48.9	757	754	162	0.5	7.87	24.0	
Min.	108	101	30.6	26.8	<1.0	24.3	12.6	140	137	11.3	<0.1	6.27	8.32	

Wet deposition (Monthly)

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

2007	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	0.21	0.20	0.08	0.06	0.08	0.12	0.02	0.28	0.28	0.05	<0.01
May	2.18	2.11	0.87	0.56	0.38	1.14	0.44	2.95	2.93	1.06	<0.01
June	4.17	4.08	1.18	0.67	0.62	1.48	0.52	4.10	4.07	1.73	<0.01
July	4.80	4.70	1.99	1.25	0.01	1.65	0.44	8.00	7.97	0.45	<0.01
Aug	1.87	1.82	0.70	0.50	0.01	0.95	0.29	3.86	3.84	0.34	<0.01
Sept	2.07	1.97	0.88	0.67	0.00	1.73	0.54	7.28	7.24	0.57	<0.01
Oct	2.88	2.78	0.97	0.70	0.00	1.53	0.56	8.52	8.49	0.68	<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	18.2	17.7	6.68	4.41	1.12	8.58	2.80	34.7	34.5	4.88	0.01

Data completeness (Monthly)

2007	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	91	91	91	91	91	91	91	91	91	91	91	91	91	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 3.11 Monthly results

Site: Hongwen

Country: China

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	110	108	45.5	52.0	78.5	30.6	5.1	135	134	8.3	7.1	5.15	3.41	41.0
Feb	37.2	36.0	29.1	24.5	54.9	21.0	6.0	34.9	34.4	9.8	16.8	4.77	2.79	35.0
Mar	603	597	195	251	93.6	102	21.2	534	532	34.5	9.8	5.01	11.8	58.5
Apr	145	144	52.9	43.0	43.6	25.6	3.9	64.0	63.5	5.2	4.5	5.34	2.95	226.7
May	44.4	43.7	40.6	21.2	44.7	11.5	3.8	40.2	40.0	6.0	8.4	5.08	2.21	208.7
June	25.7	24.9	25.5	15.4	32.4	13.7	2.3	13.4	13.1	3.5	31.0	4.51	2.17	413.2
July	26.5	22.8	29.6	65.6	34.8	61.6	4.7	36.6	35.3	8.2	1.0	5.98	2.68	5.0
Aug	14.7	12.8	9.7	37.1	15.6	30.3	1.7	15.2	14.5	4.7	9.2	5.04	1.45	304.7
Sept	61.2	60.4	44.7	58.0	66.3	13.9	2.7	31.1	30.8	2.7	40.7	4.39	3.96	29.8
Oct	33.3	31.9	19.3	28.0	44.8	23.6	3.8	82.0	81.5	5.0	0.2	6.63	2.53	10.1
Nov	79.0	76.4	47.8	62.3	89.7	42.6	8.5	149	148	12.9	0.1	6.90	5.07	5.5
Dec	65.8	64.3	42.6	41.7	90.9	24.6	2.4	19.5	19.0	5.7	82.5	4.08	3.98	8.5
Annual	75.5	74.0	37.6	39.0	38.5	24.1	3.7	54.9	54.4	6.2	16.2	4.79	2.68	1346.8
Max.	1180	1170	333	483	387	351	32.3	1040	1030	52.5	89.1	7.37	20.7	
Min.	6.6	4.9	2.7	4.8	<1.0	3.4	<1.0	1.1	0.4	0.7	<0.1	4.05	0.85	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	4.51	4.43	1.87	2.13	3.22	1.25	0.21	5.52	5.49	0.34	0.29
Feb	1.31	1.26	1.02	0.86	1.92	0.74	0.21	1.22	1.21	0.34	0.59
Mar	35.3	34.9	11.4	14.7	5.48	5.96	1.24	31.3	31.1	2.02	0.57
Apr	32.9	32.5	12.0	9.75	9.88	5.80	0.89	14.5	14.4	1.18	1.03
May	9.27	9.12	8.48	4.42	9.33	2.39	0.80	8.40	8.34	1.25	1.75
June	10.6	10.3	10.6	6.38	13.4	5.66	0.93	5.53	5.40	1.45	12.8
July	0.13	0.11	0.15	0.33	0.17	0.31	0.02	0.18	0.18	0.04	<0.01
Aug	4.47	3.92	2.96	11.3	4.76	9.23	0.53	4.62	4.42	1.44	2.81
Sept	1.82	1.80	1.33	1.73	1.97	0.41	0.08	0.93	0.92	0.08	1.21
Oct	0.34	0.32	0.19	0.28	0.45	0.24	0.04	0.83	0.82	0.05	<0.01
Nov	0.44	0.42	0.26	0.34	0.50	0.24	0.05	0.82	0.82	0.07	<0.01
Dec	0.56	0.55	0.36	0.36	0.77	0.21	0.02	0.17	0.16	0.05	0.70
Annual	102	99.7	50.6	52.6	51.8	32.4	5.03	74.0	73.3	8.32	21.8

Data completeness (Monthly)

2007	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 3.12 Monthly results

Site: Xiaoping

Country: China

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	12.0	11.1	29.4	8.2	17.8	15.5	4.1	19.5	19.1	1.9	10.7	4.97	1.27	9.8
Feb	15.0	9.4	15.9	26.8	13.1	107	15.5	32.6	30.2	4.5	0.2	6.69	1.89	14.6
Mar	42.0	41.4	42.4	29.0	63.7	10.3	41.7	79.6	79.4	10.1	0.8	6.10	2.47	101.1
Apr	30.1	29.6	42.3	15.4	52.1	8.9	3.4	13.6	13.4	2.8	20.9	4.68	2.23	105.0
May	46.3	45.4	45.7	21.3	127	14.7	3.6	20.1	19.8	2.8	7.3	5.14	2.64	52.5
June	14.4	14.2	15.4	5.1	25.5	4.4	1.3	6.3	6.2	0.7	20.0	4.70	1.14	440.1
July	62.2	61.0	45.6	21.9	94.8	18.5	4.9	17.2	16.8	2.1	100	4.00	4.55	84.9
Aug	30.1	28.8	20.5	21.6	70.9	22.3	7.0	8.6	8.1	<0.4	22.7	4.64	2.20	212.2
Sept	35.8	35.1	9.0	13.0	86.5	12.1	4.6	8.2	7.9	0.6	32.9	4.48	2.57	14.4
Oct	*	*	*	*	*	*	*	*	*	*	*	*	*	0.5
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Dec	52.4	51.9	59.3	24.2	61.7	9.2	3.3	4.0	3.8	2.2	126	3.90	4.33	9.0
Annual	28.0	27.2	26.2	14.6	52.7	12.4	7.3	16.7	16.4	2.1	25.4	4.60	2.01	1044.0
Max.	175	172	200	145	369	176	283	411	409	60.1	174	6.99	10.9	
Min.	3.4	<1.0	4.3	1.8	<1.0	<1.0	<1.0	2.1	2.0	<0.4	0.1	3.76	0.43	

Wet deposition (Monthly)

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

2007	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	0.11	0.29	0.08	0.17	0.15	0.04	0.19	0.19	0.02	0.11
Feb	0.22	0.14	0.23	0.39	0.19	1.56	0.23	0.47	0.44	0.07	<0.01
Mar	4.25	4.19	4.29	2.93	6.44	1.04	4.21	8.05	8.03	1.02	0.08
Apr	3.16	3.11	4.44	1.62	5.47	0.94	0.36	1.43	1.41	0.29	2.20
May	2.43	2.38	2.40	1.12	6.64	0.77	0.19	1.05	1.04	0.15	0.38
June	6.35	6.23	6.77	2.24	11.2	1.95	0.59	2.76	2.72	0.33	8.80
July	5.28	5.18	3.87	1.86	8.05	1.57	0.42	1.46	1.43	0.18	8.52
Aug	6.39	6.10	4.36	4.59	15.1	4.74	1.49	1.82	1.72	0.08	4.81
Sept	0.52	0.51	0.13	0.19	1.24	0.17	0.07	0.12	0.11	<0.01	0.47
Oct	*	*	*	*	*	*	*	*	*	*	*
Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	0.47	0.47	0.53	0.22	0.55	0.08	0.03	0.04	0.03	0.02	1.13
Annual	29.2	28.4	27.3	15.2	55.0	13.0	7.63	17.4	17.1	2.16	26.5

Data completeness (Monthly)

2007	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	94
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	0	0	0	0	0	0	0	0	0	0	0	0	0	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	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 3.13 Monthly results

Site: Xiang Zhou

Country: China

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	129	128	71.3	78.7	90.9	19.6	2.8	57.4	57.0	0.4	85.1	4.07	7.55	6.5
Feb	76.3	74.4	69.1	90.2	108	32.5	36.3	20.7	20.0	1.1	80.3	4.10	6.91	28.0
Mar	96.2	94.6	91.0	80.9	141	25.8	42.2	29.1	28.6	4.5	103	3.99	9.51	20.0
Apr	51.4	50.9	38.9	59.5	45.1	7.7	16.1	13.3	13.1	1.0	61.2	4.21	4.11	105.5
May	13.8	13.3	9.7	17.0	7.5	9.0	2.6	1.5	1.3	1.2	6.8	5.17	1.22	337.5
June	10.7	9.6	9.3	26.6	9.0	18.4	6.7	3.8	3.5	1.8	8.1	5.09	1.10	400.0
July	10.6	8.3	8.9	57.5	16.2	38.3	4.5	4.8	4.2	3.6	8.8	5.05	1.33	41.5
Aug	21.9	20.4	15.5	26.7	16.0	25.9	7.1	0.9	0.4	1.1	33.4	4.48	1.97	355.5
Sept	13.6	12.6	7.2	13.7	17.8	16.6	16.0	2.3	2.0	0.6	28.8	4.54	1.92	75.0
Oct	30.0	26.7	26.5	71.5	42.2	55.4	13.7	15.5	14.3	19.8	29.0	4.54	3.03	49.0
Nov	105	103	63.5	30.5	64.3	33.9	27.1	45.7	44.9	5.3	120	3.92	9.48	3.0
Dec	46.0	45.1	34.0	32.4	32.2	14.4	6.4	11.0	10.7	25.1	31.6	4.50	3.56	20.0
Annual	21.7	20.5	16.6	30.9	19.4	19.4	8.3	4.7	4.3	2.4	23.3	4.63	1.99	1441.5
Max.	285	284	205	336	261	137	106	57.4	57.0	69.5	339	5.87	23.4	
Min.	3.6	1.9	2.1	1.4	1.1	<1.0	<1.0	0.2	<0.2	0.4	1.3	3.47	0.42	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.84	0.83	0.46	0.51	0.59	0.13	0.02	0.37	0.37	<0.01	0.55
Feb	2.14	2.08	1.93	2.52	3.01	0.91	1.02	0.58	0.56	0.03	2.25
Mar	1.92	1.89	1.82	1.62	2.82	0.52	0.84	0.58	0.57	0.09	2.06
Apr	5.42	5.37	4.10	6.28	4.76	0.82	1.70	1.40	1.38	0.10	6.46
May	4.66	4.48	3.26	5.75	2.54	3.03	0.88	0.52	0.45	0.41	2.30
June	4.30	3.85	3.71	10.7	3.62	7.36	2.68	1.53	1.40	0.73	3.23
July	0.44	0.34	0.37	2.38	0.67	1.59	0.19	0.20	0.17	0.15	0.37
Aug	7.79	7.24	5.51	9.50	5.70	9.20	2.51	0.31	0.14	0.39	11.9
Sept	1.02	0.94	0.54	1.03	1.34	1.25	1.20	0.17	0.15	0.04	2.16
Oct	1.47	1.31	1.30	3.50	2.07	2.71	0.67	0.76	0.70	0.97	1.42
Nov	0.32	0.31	0.19	0.09	0.19	0.10	0.08	0.14	0.13	0.02	0.36
Dec	0.92	0.90	0.68	0.65	0.64	0.29	0.13	0.22	0.21	0.50	0.63
Annual	31.2	29.5	23.9	44.5	28.0	27.9	11.9	6.78	6.25	3.43	33.7

Data completeness (Monthly)

2007	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: Jakarta

Country: Indonesia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	19.1	18.4	10.1	15.4	21.5	12.3	9.9	1.7	1.4	1.7	14.1	4.85	1.49	166.3
Feb	26.0	24.8	24.5	17.7	13.0	20.1	6.0	6.5	6.0	2.8	31.0	4.51	2.19	717.9
Mar	21.6	20.4	27.9	38.7	24.5	18.4	11.3	7.0	6.7	1.0	5.8	5.24	1.10	167.7
Apr	42.4	42.0	69.3	21.5	25.7	6.0	11.9	39.8	39.7	3.4	22.4	4.65	3.08	205.9
May	36.9	36.6	33.2	13.7	20.5	5.8	9.5	7.6	7.5	1.3	42.8	4.37	3.11	127.0
June	34.6	33.7	37.6	17.1	36.9	15.4	17.0	18.4	18.0	1.9	18.8	4.73	1.98	167.3
July	36.4	30.6	45.7	26.0	43.9	96.2	20.2	30.9	28.8	6.0	19.0	4.72	2.95	45.0
Aug	39.6	39.2	53.1	15.2	34.6	7.3	16.0	6.3	6.1	1.2	66.1	4.18	4.06	117.0
Sept	28.3	27.0	33.6	19.3	50.4	20.5	23.3	5.2	4.8	1.2	22.4	4.65	2.06	55.0
Oct	49.7	48.2	67.2	17.1	48.7	24.8	22.5	6.9	6.3	4.2	59.6	4.22	4.37	12.6
Nov	30.6	30.3	46.6	4.7	23.1	4.7	10.6	5.7	5.6	1.3	51.9	4.29	3.35	80.0
Dec	16.4	15.8	12.9	17.1	33.0	10.6	15.2	28.9	28.7	1.7	20.0	4.70	1.38	309.3
Annual	27.9	27.0	31.1	18.7	24.2	15.8	11.2	13.9	13.6	2.2	27.5	4.56	2.23	2171.0
Max.	69.8	68.2	138	142	117	121	54.2	98.4	98.3	13.4	93.3	6.31	6.05	
Min.	5.0	4.7	4.8	1.6	2.9	<1.0	1.4	<0.2	<0.2	<0.4	0.5	4.03	0.54	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	3.18	3.05	1.68	2.55	3.58	2.05	1.65	0.28	0.24	0.28	2.35
Feb	18.6	17.8	17.6	12.7	9.34	14.4	4.31	4.64	4.33	1.99	22.3
Mar	3.61	3.43	4.68	6.48	4.11	3.08	1.90	1.18	1.12	0.17	0.98
Apr	8.72	8.65	14.3	4.44	5.29	1.24	2.44	8.20	8.17	0.70	4.61
May	4.69	4.64	4.22	1.74	2.61	0.73	1.20	0.97	0.95	0.16	5.43
June	5.79	5.64	6.28	2.86	6.17	2.58	2.85	3.08	3.02	0.32	3.15
July	1.64	1.38	2.05	1.17	1.97	4.33	0.91	1.39	1.30	0.27	0.85
Aug	4.63	4.58	6.21	1.77	4.05	0.85	1.87	0.73	0.72	0.14	7.73
Sept	1.55	1.49	1.85	1.06	2.77	1.13	1.28	0.29	0.26	0.07	1.23
Oct	0.63	0.61	0.85	0.22	0.61	0.31	0.28	0.09	0.08	0.05	0.75
Nov	2.44	2.42	3.73	0.37	1.85	0.38	0.85	0.46	0.45	0.11	4.15
Dec	5.07	4.87	3.99	5.30	10.2	3.28	4.71	8.94	8.87	0.53	6.17
Annual	60.6	58.5	67.4	40.7	52.6	34.4	24.3	30.2	29.5	4.79	59.7

Data completeness (Monthly)

2007	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 3.15 Monthly results

Site: Serpong

Country: Indonesia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	24.0	23.8	12.0	40.1	7.6	1.6	0.9	0.8	1.0	27.4	4.56	1.93	209.4
Feb	22.8	21.8	14.3	16.6	34.5	17.6	<1.0	0.4	0.3	1.7	14.6	4.84	1.44	322.7
Mar	14.0	13.2	8.5	16.5	24.7	14.1	2.0	2.5	2.3	3.9	1.5	5.84	0.83	121.8
Apr	30.5	29.6	35.4	6.6	53.8	15.0	5.3	5.7	5.4	2.2	16.8	4.77	1.88	230.8
May	44.6	43.0	42.4	35.1	95.6	25.6	5.0	16.3	15.7	8.1	6.5	5.19	2.40	32.8
June	22.6	22.1	23.9	15.5	33.8	8.0	2.1	14.1	13.9	4.9	8.3	5.08	1.32	164.4
July	53.8	52.5	57.5	31.4	132	21.0	6.7	8.7	8.3	0.8	16.6	4.78	3.31	42.2
Aug	52.5	51.5	57.7	24.0	87.4	15.3	6.6	13.9	13.6	6.1	40.5	4.39	3.41	83.1
Sept	51.8	50.4	45.3	26.2	85.1	22.9	5.3	15.2	14.7	0.5	16.6	4.78	3.12	33.5
Oct	40.7	39.8	56.4	18.6	72.0	14.6	5.1	17.1	16.8	3.4	22.5	4.65	2.54	123.8
Nov	42.4	42.0	51.1	14.6	45.9	5.4	2.8	11.5	11.4	2.7	51.9	4.29	3.25	242.2
Dec	28.1	27.6	22.2	9.1	24.2	7.4	1.5	7.7	7.6	2.2	38.9	4.41	2.39	408.0
Annual	30.5	29.8	30.4	14.3	44.3	11.7	2.8	7.4	7.2	2.6	25.8	4.59	2.14	2014.7
Max.	92.5	90.0	126	146	219	52.0	17.0	39.5	39.1	15.3	75.9	6.90	6.78	
Min.	<1.0	<1.0	<1.0	<1.0	8.2	<1.0	<1.0	<0.2	<0.2	<0.4	0.1	4.12	0.40	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	5.12	5.02	4.97	2.51	8.40	1.60	0.34	0.19	0.18	0.21	5.75
Feb	7.37	7.03	4.63	5.34	11.1	5.66	0.32	0.12	0.10	0.55	4.72
Mar	1.70	1.60	1.04	2.01	3.01	1.71	0.25	0.30	0.28	0.47	0.18
Apr	7.04	6.83	8.17	1.53	12.4	3.47	1.23	1.31	1.24	0.51	3.88
May	1.46	1.41	1.39	1.15	3.13	0.84	0.16	0.53	0.52	0.26	0.21
June	3.72	3.64	3.93	2.54	5.56	1.32	0.34	2.32	2.29	0.81	1.36
July	2.27	2.22	2.43	1.33	5.57	0.89	0.28	0.37	0.35	0.03	0.70
Aug	4.36	4.28	4.80	1.99	7.27	1.27	0.55	1.15	1.13	0.51	3.37
Sept	1.73	1.69	1.52	0.88	2.85	0.77	0.18	0.51	0.49	0.02	0.56
Oct	5.04	4.93	6.99	2.30	8.91	1.81	0.63	2.12	2.08	0.42	2.78
Nov	10.3	10.2	12.4	3.53	11.1	1.31	0.69	2.78	2.75	0.66	12.6
Dec	11.4	11.3	9.06	3.72	9.86	3.01	0.60	3.15	3.08	0.88	15.9
Annual	61.5	60.1	61.3	28.8	89.2	23.7	5.56	14.9	14.5	5.33	52.0

Data completeness (Monthly)

2007	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 3.16 Monthly results

Site: Kototabang

Country: Indonesia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	15.4	14.5	3.4	49.6	41.2	14.7	19.0	5.8	5.5	9.9	3.0	5.52	1.15	278.1
Feb	9.3	8.8	2.4	17.2	13.3	7.1	6.2	4.4	4.2	3.0	11.9	4.93	1.02	282.1
Mar	5.3	5.1	2.6	4.6	12.7	3.4	5.9	3.5	3.4	1.2	5.6	5.25	0.83	129.6
Apr	8.7	8.2	6.7	10.7	40.3	8.1	18.6	1.5	1.3	0.9	10.8	4.97	1.34	233.1
May	3.3	3.0	3.1	8.7	10.6	4.5	4.9	4.0	3.9	0.6	4.2	5.38	0.42	151.0
June	6.7	6.4	4.4	5.9	4.0	5.4	1.9	4.0	3.9	0.7	4.8	5.32	0.76	239.1
July	2.2	2.0	<1.0	2.5	2.0	4.4	<1.0	4.9	4.8	1.0	3.9	5.41	0.39	175.4
Aug	11.8	10.8	6.8	18.6	34.2	15.7	15.8	2.8	2.5	2.3	7.4	5.13	0.68	146.6
Sept	4.3	3.9	2.7	6.7	11.2	6.8	5.2	4.5	4.4	1.5	1.9	5.71	0.62	243.0
Oct	3.7	3.1	3.2	7.8	10.9	10.3	5.0	6.0	5.8	2.0	6.6	5.18	0.62	365.4
Nov	9.6	9.0	2.1	12.0	20.8	9.8	9.6	4.0	3.8	14.2	2.0	5.70	1.25	206.0
Dec	3.6	3.0	4.3	11.4	16.4	9.6	7.6	7.5	7.3	5.7	1.3	5.87	0.57	323.0
Annual	7.0	6.5	3.6	13.8	18.2	8.6	8.4	4.7	4.5	3.8	5.3	5.27	0.82	2772.4
Max.	20.4	19.1	13.8	63.5	83.5	24.6	38.5	11.8	11.6	25.6	37.2	6.62	2.23	
Min.	1.2	1.1	<1.0	1.4	<1.0	1.1	<1.0	0.6	0.5	<0.4	0.2	4.43	0.22	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	4.28	4.03	0.95	13.8	11.5	4.10	5.29	1.61	1.52	2.75	0.85
Feb	2.61	2.49	0.68	4.85	3.76	2.00	1.74	1.24	1.19	0.85	3.35
Mar	0.69	0.66	0.34	0.59	1.64	0.44	0.76	0.45	0.44	0.15	0.72
Apr	2.02	1.91	1.56	2.49	9.40	1.89	4.34	0.35	0.31	0.20	2.52
May	0.49	0.45	0.47	1.31	1.59	0.68	0.74	0.60	0.59	0.08	0.63
June	1.60	1.52	1.04	1.42	0.96	1.29	0.44	0.95	0.93	0.17	1.16
July	0.39	0.35	0.17	0.44	0.35	0.76	0.16	0.86	0.84	0.17	0.69
Aug	1.72	1.58	1.00	2.72	5.02	2.30	2.31	0.41	0.36	0.33	1.08
Sept	1.04	0.94	0.67	1.63	2.73	1.65	1.26	1.11	1.07	0.35	0.47
Oct	1.37	1.14	1.17	2.83	4.00	3.76	1.85	2.19	2.11	0.72	2.42
Nov	1.98	1.86	0.44	2.46	4.29	2.01	1.98	0.83	0.78	2.93	0.41
Dec	1.17	0.98	1.40	3.70	5.29	3.10	2.44	2.43	2.36	1.84	0.43
Annual	19.4	17.9	9.88	38.2	50.5	24.0	23.3	13.0	12.5	10.6	14.7

Data completeness (Monthly)

2007	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 3.17 Monthly results

Site: Bandung

Country: Indonesia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	27.1	26.6	20.6	9.3	53.2	9.1	2.0	7.3	7.1	1.3	11.6	4.94	1.69	131.1
Feb	23.6	23.3	19.2	6.4	37.2	5.6	1.4	7.0	6.9	1.0	13.2	4.88	1.54	321.4
Mar	16.7	16.1	13.0	8.5	35.6	8.5	1.9	6.8	6.6	1.0	2.8	5.56	1.10	157.1
Apr	24.0	23.7	18.2	6.3	31.1	4.7	1.2	6.4	6.3	1.0	17.0	4.77	1.70	370.3
May	26.9	26.5	20.0	9.0	64.3	7.0	2.8	12.1	11.9	1.8	4.7	5.33	1.60	108.9
June	25.8	25.6	25.9	5.6	51.7	3.4	1.7	12.0	11.9	1.5	8.6	5.06	1.38	72.0
July	49.0	47.5	34.0	20.6	113	24.8	6.2	23.8	23.3	5.1	0.3	6.60	2.93	17.5
Aug	136	134	103	54.4	269	42.1	14.2	78.4	77.5	13.2	0.5	6.33	6.31	2.8
Sept	66.9	65.6	66.7	23.9	136	21.1	8.5	50.5	50.1	7.1	0.3	6.52	3.85	33.5
Oct	35.2	34.4	36.7	11.8	77.6	13.4	5.2	18.7	18.4	3.8	4.9	5.31	2.04	141.0
Nov	27.8	27.5	21.6	5.9	49.9	4.6	1.8	6.8	6.7	1.4	16.6	4.78	1.62	326.9
Dec	24.5	24.2	18.8	5.7	45.4	4.9	1.5	9.4	9.3	2.1	12.2	4.91	1.45	286.4
Annual	26.4	26.0	21.6	7.5	47.9	6.6	2.0	9.5	9.4	1.7	11.8	4.93	1.64	1968.8
Max.	140	138	103	55.8	269	93.8	14.2	78.4	77.5	14.0	79.4	6.90	7.57	
Min.	5.4	5.3	3.1	1.5	7.1	1.0	<1.0	2.2	2.2	<0.4	0.1	4.10	0.40	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	3.55	3.48	2.70	1.21	6.97	1.19	0.26	0.95	0.93	0.17	1.52
Feb	7.60	7.49	6.18	2.05	11.9	1.79	0.44	2.25	2.21	0.33	4.23
Mar	2.62	2.54	2.04	1.34	5.59	1.33	0.29	1.06	1.04	0.16	0.44
Apr	8.87	8.77	6.73	2.32	11.5	1.73	0.43	2.37	2.34	0.37	6.28
May	2.93	2.89	2.18	0.98	7.00	0.76	0.30	1.31	1.30	0.20	0.51
June	1.85	1.84	1.86	0.41	3.72	0.24	0.12	0.87	0.86	0.11	0.62
July	0.86	0.83	0.59	0.36	1.97	0.43	0.11	0.42	0.41	0.09	<0.01
Aug	0.38	0.37	0.29	0.15	0.75	0.12	0.04	0.22	0.22	0.04	<0.01
Sept	2.24	2.20	2.24	0.80	4.55	0.71	0.29	1.69	1.68	0.24	0.01
Oct	4.97	4.85	5.17	1.66	10.9	1.89	0.73	2.64	2.60	0.53	0.69
Nov	9.08	9.00	7.07	1.93	16.3	1.49	0.58	2.22	2.19	0.45	5.42
Dec	7.01	6.93	5.39	1.62	13.0	1.41	0.42	2.70	2.66	0.61	3.49
Annual	52.0	51.2	42.4	14.8	94.3	13.1	4.01	18.7	18.4	3.31	23.2

Data completeness (Monthly)

2007	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 3.18 Monthly results

Site: Rishiri

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	37.6	13.7	9.6	525	7.1	447	9.1	13.4	3.7	51.3	19.1	4.72	7.76	22.0
Feb	42.1	29.4	26.1	241	35.3	211	6.7	9.6	5.0	25.6	37.6	4.42	5.41	40.5
Mar	49.7	21.7	14.5	530	23.3	464	10.2	14.8	4.7	51.9	25.6	4.59	8.36	47.0
Apr	50.1	46.5	45.7	63.0	59.1	59.5	3.0	6.2	4.9	7.2	62.0	4.21	4.72	27.6
May	20.6	19.0	13.4	29.0	23.8	26.0	1.5	3.8	3.2	3.3	21.5	4.67	1.81	150.2
June	90.2	88.0	86.6	50.9	115	36.5	5.4	29.1	28.3	13.0	77.6	4.11	6.45	45.0
July	25.7	20.9	17.5	84.9	33.4	79.4	2.4	3.1	1.4	9.3	27.0	4.57	2.90	55.6
Aug	31.5	28.2	20.1	58.9	40.0	55.2	2.0	2.3	1.1	6.5	44.6	4.35	3.13	164.4
Sept	7.2	3.8	4.5	61.3	3.1	57.2	2.5	2.4	1.1	7.3	7.3	5.14	1.26	199.6
Oct	29.7	10.6	8.8	374	14.9	317	8.2	12.5	5.6	37.4	7.8	5.11	5.40	49.5
Nov	52.1	16.9	17.5	665	30.3	583	15.0	16.6	4.2	70.1	20.4	4.69	10.3	44.5
Dec	35.9	23.0	16.2	232	27.8	214	4.9	9.6	5.0	26.8	22.7	4.64	5.03	37.0
Annual	28.3	19.7	15.6	161	25.9	143	4.1	5.8	2.8	17.0	26.3	4.58	3.72	882.9
Max.	204	88.0	86.6	3050	115	2750	61.4	80.7	37.5	305	97.7	6.23	42.8	
Min.	<1.0	<1.0	<1.0	2.7	<1.0	2.6	<1.0	0.3	<0.2	<0.4	0.6	4.01	0.28	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.83	0.30	0.21	11.5	0.16	9.84	0.20	0.30	0.08	1.13	0.42
Feb	1.71	1.19	1.06	9.75	1.43	8.54	0.27	0.39	0.20	1.03	1.52
Mar	2.33	1.02	0.68	24.9	1.09	21.8	0.48	0.69	0.22	2.44	1.20
Apr	1.38	1.28	1.26	1.74	1.63	1.64	0.08	0.17	0.14	0.20	1.71
May	3.09	2.85	2.01	4.36	3.58	3.91	0.23	0.57	0.49	0.50	3.23
June	4.06	3.96	3.90	2.29	5.18	1.64	0.24	1.31	1.27	0.59	3.49
July	1.43	1.16	0.98	4.72	1.86	4.42	0.13	0.17	0.08	0.52	1.50
Aug	5.19	4.64	3.31	9.68	6.57	9.08	0.34	0.38	0.18	1.07	7.34
Sept	1.44	0.76	0.89	12.2	0.62	11.4	0.49	0.47	0.22	1.45	1.46
Oct	1.47	0.52	0.44	18.5	0.74	15.7	0.41	0.62	0.28	1.85	0.38
Nov	2.32	0.75	0.78	29.6	1.35	26.0	0.67	0.74	0.19	3.12	0.91
Dec	1.33	0.85	0.60	8.60	1.03	7.91	0.18	0.36	0.19	0.99	0.84
Annual	24.9	17.4	13.8	142	22.9	126	3.65	5.15	2.44	15.0	23.3

Data completeness (Monthly)

2007	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	89	89	89	89	89	89	89	89	89	89	89	89	89	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	100	100	100	100
May	99	99	99	99	99	99	99	99	99	99	99	99	99	90
June	2	2	2	2	2	2	2	2	2	2	2	2	2	87
July	98	98	98	98	98	98	98	98	98	98	98	98	98	100
Aug	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Sept	72	72	72	72	72	72	72	72	72	72	72	72	72	97
Oct	53	53	53	53	53	53	53	53	53	53	53	53	53	87
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Annual	85	85	85	85	85	85	85	85	85	85	85	85	85	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 3.19 Monthly results

Site: Ochiishi

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	76.5	7.2	8.4	1340	2.6	1160	24.7	37.9	13.4	128	3.7	5.44	9.06	16.6
Feb	78.7	13.1	25.3	1280	10.0	1090	23.4	41.6	18.0	126	6.6	5.18	24.7	14.6
Mar	54.6	20.0	13.7	614	10.9	574	12.7	20.3	7.9	64.7	23.9	4.62	10.2	20.8
Apr	20.6	14.1	10.5	121	6.8	109	2.7	12.0	9.6	13.6	12.3	4.91	2.53	31.5
May	20.2	14.0	11.0	120	10.1	104	2.7	6.4	4.2	12.9	18.0	4.74	2.67	171.6
June	9.8	8.5	7.5	24.3	7.8	20.7	<1.0	1.7	1.2	2.7	14.2	4.85	1.20	114.7
July	7.2	5.3	5.7	35.9	4.7	31.7	<1.0	1.6	0.9	3.7	11.1	4.95	1.15	108.6
Aug	14.4	13.6	15.4	17.8	10.5	14.0	<1.0	2.2	1.9	2.2	27.6	4.56	1.77	34.1
Sept	14.1	6.7	5.8	152	5.4	124	3.4	3.6	1.0	14.8	14.8	4.83	2.84	205.8
Oct	21.8	6.8	7.7	295	5.9	248	6.6	6.9	1.5	27.4	14.2	4.85	4.85	78.5
Nov	43.8	8.7	9.2	739	1.6	583	11.8	16.4	3.8	65.9	21.0	4.68	10.3	38.0
Dec	67.2	29.8	37.0	699	32.9	621	16.3	19.1	5.7	71.0	49.9	4.30	12.6	31.3
Annual	21.3	10.1	9.6	219	7.8	186	4.6	7.0	3.0	21.5	16.7	4.78	3.69	866.1
Max.	1230	205	202	22800	198	19700	440	427	97.4	2170	83.2	6.09	63.6	
Min.	3.3	<1.0	<1.0	6.6	<1.0	4.8	<1.0	0.9	<0.2	0.8	0.8	4.08	0.61	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	1.27	0.12	0.14	22.2	0.04	19.2	0.41	0.63	0.22	2.12	0.06
Feb	1.15	0.19	0.37	18.6	0.15	15.9	0.34	0.61	0.26	1.84	0.10
Mar	1.14	0.42	0.29	12.8	0.23	12.0	0.26	0.42	0.16	1.35	0.50
Apr	0.65	0.44	0.33	3.81	0.21	3.44	0.09	0.38	0.30	0.43	0.39
May	3.47	2.40	1.88	20.6	1.73	17.8	0.46	1.09	0.71	2.21	3.10
June	1.12	0.98	0.86	2.79	0.90	2.38	0.11	0.19	0.14	0.31	1.63
July	0.78	0.57	0.62	3.90	0.51	3.44	0.10	0.17	0.10	0.40	1.21
Aug	0.49	0.46	0.53	0.61	0.36	0.48	0.03	0.07	0.06	0.07	0.94
Sept	2.91	1.38	1.20	31.3	1.12	25.5	0.70	0.75	0.20	3.04	3.04
Oct	1.71	0.54	0.60	23.1	0.46	19.5	0.52	0.54	0.12	2.15	1.11
Nov	1.66	0.33	0.35	28.1	0.06	22.1	0.45	0.62	0.15	2.51	0.80
Dec	2.10	0.93	1.16	21.9	1.03	19.4	0.51	0.60	0.18	2.22	1.56
Annual	18.4	8.73	8.29	189	6.79	161	3.97	6.03	2.56	18.6	14.5

Data completeness (Monthly)

2007	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	96	100	100	100	100	100	96	96	96	100
Feb	96	96	96	96	96	96	96	96	96	96	55	55	55	100
Mar	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Apr	83	83	83	83	83	83	83	83	83	83	79	79	79	100
May	100	100	100	100	100	100	100	100	100	100	99	99	99	100
June	99	99	99	99	99	99	99	99	99	99	99	99	99	100
July	99	99	99	99	99	99	99	99	99	99	99	99	99	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	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Dec	97	97	97	97	97	97	97	97	97	97	97	97	97	100
Annual	99	99	99	99	99	99	99	99	99	99	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 3.20 Monthly results

Site: Tappi

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	42.5	16.0	25.9	488	12.4	440	9.4	15.6	6.1	48.1	23.2	4.64	7.44	95.8
Feb	104	33.6	38.6	1320	33.0	1160	24.2	31.8	6.7	130	32.2	4.49	18.7	20.5
Mar	70.1	39.4	51.7	548	50.3	509	12.8	34.2	23.3	58.5	22.9	4.64	9.52	48.0
Apr	21.2	16.9	22.0	78.2	22.1	71.1	2.2	6.9	5.4	8.5	22.8	4.64	2.66	104.1
May	35.8	23.1	34.2	233	27.1	210	5.4	21.7	17.2	25.3	19.7	4.71	4.74	81.0
June	31.7	30.0	36.4	29.3	33.5	26.9	2.8	6.3	5.7	4.0	50.9	4.29	3.10	65.3
July	31.6	18.8	32.8	236	25.2	212	5.0	8.4	3.9	23.1	38.4	4.42	5.26	17.0
Aug	13.9	11.6	13.0	42.9	11.0	37.9	1.2	1.8	1.0	4.3	22.6	4.65	1.86	193.0
Sept	20.1	6.8	11.6	262	9.1	242	4.9	6.8	1.7	25.7	17.1	4.77	4.39	214.5
Oct	51.6	22.3	33.2	557	23.6	486	15.2	15.4	4.9	54.6	37.8	4.42	9.78	61.0
Nov	27.6	8.7	10.9	373	14.0	314	6.5	10.0	3.2	36.5	18.8	4.73	6.02	102.0
Dec	29.5	14.9	21.9	267	8.0	242	5.3	25.2	20.0	29.0	16.4	4.78	4.99	53.0
Annual	29.6	15.7	21.6	262	17.7	234	5.7	11.0	6.0	26.4	23.8	4.62	4.92	1055.3
Max.	605	411	677	6900	645	6290	125	331	261	680	178	6.18	88.3	
Min.	7.3	<1.0	2.3	10.0	<1.0	3.5	<1.0	0.5	<0.2	0.4	0.7	3.75	0.94	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	4.08	1.54	2.48	46.8	1.19	42.1	0.90	1.50	0.59	4.61	2.22
Feb	2.12	0.69	0.79	27.0	0.68	23.8	0.50	0.65	0.14	2.66	0.66
Mar	3.36	1.89	2.48	26.3	2.41	24.4	0.61	1.64	1.12	2.81	1.10
Apr	2.21	1.76	2.29	8.13	2.30	7.40	0.23	0.72	0.56	0.89	2.37
May	2.90	1.87	2.77	18.9	2.20	17.0	0.44	1.76	1.39	2.05	1.59
June	2.07	1.96	2.38	1.91	2.19	1.76	0.18	0.41	0.37	0.26	3.32
July	0.54	0.32	0.56	4.03	0.43	3.61	0.09	0.14	0.07	0.39	0.66
Aug	2.68	2.24	2.51	8.29	2.12	7.32	0.23	0.34	0.19	0.83	4.36
Sept	4.31	1.45	2.50	56.2	1.95	51.9	1.05	1.46	0.36	5.52	3.67
Oct	3.15	1.36	2.03	34.0	1.44	29.7	0.93	0.94	0.30	3.33	2.30
Nov	2.82	0.89	1.11	38.1	1.43	32.0	0.67	1.02	0.33	3.72	1.92
Dec	1.57	0.79	1.16	14.2	0.42	12.8	0.28	1.34	1.06	1.54	0.87
Annual	31.2	16.6	22.8	276	18.7	247	5.97	11.7	6.34	27.9	25.1

Data completeness (Monthly)

2007	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	77	77	77	77	77	77	77	77	77	77	75	75	75	77
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	84	84	84	84	84	84	84	84	84	84	83	83	83	100
Apr	100	100	100	100	100	100	100	100	100	100	98	98	98	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	98	98	98	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	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	95	95	95	95	95	95	95	95	95	95	94	94	94	100
Dec	98	98	98	98	98	98	98	98	98	98	94	94	94	100
Annual	96	96	96	96	96	96	96	96	96	96	95	95	95	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 3.21 Monthly results

Site: Sadoseki

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	59.3	19.7	37.7	749	31.6	656	14.6	21.2	7.0	70.7	51.8	4.29	12.7	63.3
Feb	106	37.4	49.9	1280	39.5	1130	25.4	35.2	10.7	129	43.5	4.36	18.9	31.0
Mar	52.2	36.6	34.1	284	45.1	260	7.3	19.9	14.3	31.1	27.9	4.55	6.32	94.5
Apr	62.8	50.9	53.1	226	58.8	198	6.6	25.0	20.7	26.2	48.3	4.32	4.78	91.1
May	55.9	36.6	47.3	369	46.6	319	9.0	28.9	22.0	38.6	40.6	4.39	4.42	67.0
June	15.1	13.8	16.4	23.0	16.3	21.3	1.5	3.2	2.7	2.5	23.4	4.63	1.78	171.7
July	11.2	9.6	13.1	26.9	10.8	26.7	1.2	3.0	2.4	2.9	12.8	4.89	1.22	92.7
Aug	14.5	12.2	14.2	43.9	14.0	38.9	1.4	3.1	2.2	4.4	22.2	4.65	2.00	201.9
Sept	15.0	10.0	15.0	93.3	11.2	83.1	2.0	4.7	2.9	9.4	20.8	4.68	2.41	63.4
Oct	25.3	11.5	17.7	243	13.1	230	5.0	7.6	2.7	25.3	26.1	4.58	4.13	104.8
Nov	79.3	28.3	31.4	983	30.4	847	18.6	25.4	7.1	94.0	47.9	4.32	14.5	52.6
Dec	39.0	21.6	27.7	331	24.0	288	7.7	10.5	4.3	33.9	47.1	4.33	6.80	128.7
Annual	34.9	21.3	25.8	257	25.2	227	5.9	11.8	6.9	26.1	31.4	4.50	4.92	1162.8
Max.	1070	328	714	14300	757	12200	271	723	459	1450	174	6.48	91.0	
Min.	3.5	<1.0	2.8	5.3	2.3	3.7	<1.0	1.1	0.5	<0.4	0.3	3.76	0.59	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	3.75	1.25	2.38	47.4	2.00	41.5	0.93	1.34	0.44	4.47	3.28
Feb	3.27	1.16	1.54	39.5	1.22	35.1	0.79	1.09	0.33	3.99	1.35
Mar	4.94	3.46	3.22	26.9	4.27	24.5	0.69	1.88	1.35	2.94	2.64
Apr	5.72	4.64	4.84	20.6	5.36	18.0	0.60	2.28	1.89	2.38	4.40
May	3.74	2.45	3.17	24.8	3.12	21.4	0.60	1.94	1.47	2.59	2.72
June	2.59	2.37	2.82	3.94	2.80	3.67	0.26	0.55	0.47	0.44	4.01
July	1.04	0.89	1.21	2.49	1.00	2.47	0.11	0.28	0.23	0.27	1.19
Aug	2.93	2.46	2.86	8.86	2.82	7.85	0.27	0.62	0.45	0.88	4.47
Sept	0.95	0.64	0.95	5.92	0.71	5.27	0.13	0.30	0.18	0.59	1.32
Oct	2.65	1.21	1.86	25.5	1.37	24.2	0.53	0.80	0.28	2.66	2.73
Nov	4.17	1.49	1.65	51.7	1.60	44.5	0.98	1.34	0.37	4.94	2.52
Dec	5.02	2.78	3.57	42.6	3.08	37.0	0.98	1.35	0.55	4.36	6.06
Annual	40.6	24.7	30.0	298	29.3	264	6.84	13.7	7.99	30.3	36.5

Data completeness (Monthly)

2007	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	93	93	93	100
Feb	97	97	97	97	97	97	97	97	97	97	95	95	95	100
Mar	99	99	99	99	99	99	99	99	99	99	98	98	98	100
Apr	99	99	99	99	99	99	99	99	99	99	95	95	95	100
May	98	98	98	98	98	98	98	98	98	98	92	92	92	100
June	100	100	100	100	100	100	100	100	100	100	98	98	98	100
July	99	99	99	99	99	99	99	99	99	99	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	96	96	96	100
Oct	99	99	99	99	99	99	99	99	99	99	94	94	94	100
Nov	98	98	98	98	98	98	98	98	98	98	96	96	96	100
Dec	100	100	100	100	100	100	100	100	100	100	96	96	96	100
Annual	99	99	99	99	99	99	99	99	99	99	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 3.22 Monthly results

Site: Happo

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	23.8	23.5	21.4	8.4	17.9	5.2	1.2	2.8	2.7	1.4	41.1	4.39	2.35	97.5
Feb	15.3	15.0	10.3	5.6	11.9	4.4	<1.0	1.2	1.1	0.8	24.3	4.61	1.38	116.3
Mar	20.7	20.4	14.4	5.7	22.0	4.8	1.4	7.2	7.1	1.7	17.2	4.76	1.43	200.0
Apr	34.0	33.5	27.9	10.7	37.6	8.0	1.9	17.7	17.5	2.7	20.4	4.69	2.19	127.9
May	16.2	16.1	13.4	3.6	15.0	2.4	1.0	10.1	10.1	1.5	10.3	4.99	1.01	145.6
June	8.1	8.1	7.2	1.3	7.9	<1.0	<1.0	0.6	0.6	<0.4	13.6	4.87	0.88	329.5
July	13.8	13.8	12.4	2.0	15.0	<1.0	<1.0	0.8	0.8	<0.4	21.2	4.67	1.40	254.5
Aug	7.1	7.1	6.3	2.2	7.7	1.1	<1.0	0.4	0.3	<0.4	10.2	4.99	0.72	251.5
Sept	3.2	3.1	4.4	1.9	2.9	1.4	<1.0	0.3	0.3	<0.4	6.1	5.21	0.40	189.0
Oct	3.4	3.3	4.3	2.0	2.2	1.6	<1.0	<0.2	<0.2	<0.4	9.5	5.02	0.46	242.5
Nov	12.8	12.4	8.2	9.3	8.3	7.0	<1.0	1.4	1.2	0.8	24.5	4.61	1.40	150.5
Dec	13.8	13.3	7.8	9.9	5.7	7.6	<1.0	2.2	2.1	1.1	24.1	4.62	1.28	224.0
Annual	12.2	12.0	9.8	4.4	11.1	3.1	<1.0	2.9	2.8	0.7	16.2	4.79	1.08	2328.9
Max.	125	122	88.5	108	135	88.8	8.8	63.9	63.0	15.1	105	6.07	6.82	
Min.	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.9	3.98	0.18	

Wet deposition (Monthly)

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

2007	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	2.29	2.08	0.82	1.74	0.51	0.11	0.28	0.27	0.13	4.01
Feb	1.78	1.74	1.19	0.65	1.38	0.51	0.08	0.14	0.13	0.09	2.83
Mar	4.14	4.08	2.88	1.14	4.40	0.95	0.27	1.44	1.42	0.35	3.44
Apr	4.35	4.29	3.57	1.37	4.81	1.03	0.25	2.27	2.24	0.34	2.61
May	2.36	2.34	1.96	0.52	2.19	0.35	0.15	1.47	1.47	0.23	1.50
June	2.68	2.66	2.38	0.42	2.60	0.32	0.12	0.20	0.19	0.04	4.49
July	3.52	3.51	3.15	0.51	3.82	0.15	0.12	0.20	0.20	0.03	5.39
Aug	1.79	1.78	1.59	0.56	1.93	0.28	0.06	0.09	0.09	0.03	2.56
Sept	0.61	0.59	0.82	0.36	0.55	0.26	0.02	0.06	0.05	0.03	1.16
Oct	0.83	0.80	1.04	0.48	0.53	0.38	0.03	0.04	0.03	0.02	2.31
Nov	1.93	1.86	1.23	1.40	1.24	1.05	0.10	0.20	0.18	0.13	3.69
Dec	3.09	2.99	1.75	2.21	1.27	1.71	0.14	0.50	0.46	0.24	5.40
Annual	28.4	28.0	22.9	10.1	25.8	7.29	1.41	6.77	6.63	1.57	37.8

Data completeness (Monthly)

2007	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	46	46	46	46	46	46	46	46	46	46	46	46	46	100
Feb	85	85	85	85	85	85	85	85	85	85	85	85	85	100
Mar	86	86	86	86	86	86	86	86	86	86	85	85	85	100
Apr	98	98	98	98	98	98	98	98	98	98	93	93	93	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	98	98	98	100
Dec	98	98	98	98	98	98	98	98	98	98	98	98	98	100
Annual	95	95	95	95	95	95	95	95	95	95	95	95	95	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: Ijira

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	26.6	17.6	20.6	169	17.2	149	3.9	8.0	4.8	17.1	25.9	4.59	3.95	65.0
Feb	29.7	25.6	25.3	80.2	23.5	67.3	2.6	4.8	3.4	8.1	45.6	4.34	3.52	144.0
Mar	31.9	29.2	30.9	51.9	32.6	44.1	2.3	9.4	8.5	6.3	36.7	4.44	3.08	187.5
Apr	36.7	35.0	62.8	31.4	50.0	28.4	2.8	19.4	18.8	6.4	31.9	4.50	3.28	34.5
May	23.6	23.2	20.0	7.5	28.9	6.7	1.3	7.8	7.6	1.8	19.7	4.71	1.66	262.0
June	16.0	15.8	20.0	4.7	19.5	3.4	<1.0	1.5	1.4	0.5	28.5	4.55	1.68	341.2
July	13.8	13.6	17.2	5.2	17.2	3.5	<1.0	0.7	0.6	0.4	26.7	4.57	1.51	530.0
Aug	20.1	19.5	27.6	14.0	25.8	11.1	<1.0	1.9	1.6	1.4	36.3	4.44	2.27	161.9
Sept	10.1	9.3	18.0	14.8	15.1	12.3	<1.0	1.6	1.4	1.5	19.5	4.71	1.34	232.5
Oct	14.8	14.3	26.9	10.6	13.0	8.7	<1.0	1.2	1.0	1.1	38.3	4.42	2.14	96.0
Nov	23.4	20.6	21.7	55.7	15.8	47.0	1.8	2.7	1.7	5.4	42.4	4.37	2.97	47.0
Dec	17.1	14.9	20.1	43.5	9.9	36.6	1.3	5.2	4.4	4.6	30.5	4.52	2.25	161.9
Annual	19.0	17.7	21.8	24.8	20.7	20.8	1.1	3.6	3.2	2.8	29.3	4.53	2.05	2263.5
Max.	133	129	306	189	208	162	16.4	130	128	27.4	123	5.50	10.1	
Min.	2.5	2.4	3.4	<1.0	1.9	<1.0	<1.0	0.2	<0.2	<0.4	3.2	3.91	0.34	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	1.73	1.14	1.34	11.0	1.12	9.71	0.26	0.52	0.31	1.11	1.68
Feb	4.27	3.69	3.64	11.6	3.39	9.69	0.37	0.69	0.49	1.17	6.57
Mar	5.98	5.48	5.79	9.73	6.12	8.27	0.44	1.77	1.59	1.18	6.88
Apr	1.27	1.21	2.17	1.08	1.73	0.98	0.10	0.67	0.65	0.22	1.10
May	6.18	6.08	5.24	1.95	7.58	1.77	0.33	2.04	2.00	0.46	5.16
June	5.45	5.38	6.82	1.60	6.66	1.14	0.29	0.51	0.49	0.18	9.73
July	7.33	7.22	9.14	2.73	9.14	1.85	0.28	0.37	0.33	0.23	14.2
Aug	3.26	3.15	4.47	2.26	4.18	1.80	0.10	0.30	0.26	0.23	5.87
Sept	2.34	2.17	4.18	3.45	3.50	2.86	0.11	0.38	0.32	0.35	4.54
Oct	1.42	1.37	2.58	1.02	1.24	0.84	0.04	0.11	0.09	0.10	3.68
Nov	1.10	0.97	1.02	2.62	0.74	2.21	0.08	0.13	0.08	0.25	1.99
Dec	2.76	2.41	3.25	7.05	1.61	5.92	0.21	0.84	0.71	0.74	4.94
Annual	43.0	40.1	49.4	56.1	46.8	47.1	2.60	8.23	7.21	6.23	66.3

Data completeness (Monthly)

2007	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	86	86	86	86	86	86	86	86	86	86	86	86	86	100
May	97	97	97	97	97	97	97	97	97	97	97	97	97	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	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 3.24 Monthly results

Site: Oki

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	109	46.6	63.7	1200	32.5	1040	27.2	35.1	12.6	120	72.5	4.14	23.1	78.2
Feb	75.3	39.9	39.7	655	24.7	587	16.9	20.6	7.9	66.0	57.6	4.24	12.3	39.0
Mar	96.6	58.3	57.4	709	53.3	635	22.4	56.6	42.9	75.6	25.2	4.60	12.4	74.3
Apr	70.6	39.9	55.1	573	36.0	510	17.3	44.5	33.5	61.2	23.0	4.64	11.0	27.2
May	27.1	20.8	25.7	124	13.0	105	4.8	17.9	15.6	14.5	19.5	4.71	3.47	75.4
June	5.9	5.0	6.3	16.4	4.1	14.9	1.2	1.2	0.8	1.9	7.7	5.11	0.81	204.5
July	16.7	15.1	12.7	31.5	13.2	26.5	1.9	1.6	1.0	3.0	20.8	4.68	1.88	155.6
Aug	10.5	6.7	8.1	72.2	3.1	63.5	2.8	2.1	0.7	6.3	10.1	4.99	1.73	222.6
Sept	32.3	22.5	31.4	190	13.2	162	5.5	5.8	2.3	19.2	43.7	4.36	5.22	44.5
Oct	14.0	8.0	10.5	116	7.6	99.1	3.2	3.7	1.6	11.5	12.3	4.91	2.51	130.0
Nov	95.5	26.1	49.4	1280	25.2	1150	44.0	42.2	17.3	130	28.9	4.54	18.9	37.9
Dec	93.8	40.0	53.0	1000	39.8	892	26.4	32.5	13.2	101	53.8	4.27	16.9	70.7
Annual	36.3	19.7	23.8	312	15.7	275	9.1	13.6	7.7	31.7	23.1	4.64	5.91	1159.8
Max.	1000	206	333	16300	247	14000	316	391	187	1570	282	7.07	212	
Min.	1.1	<1.0	<1.0	4.0	<1.0	2.1	<1.0	0.5	<0.2	0.5	<0.1	3.55	0.31	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	8.56	3.65	4.99	93.5	2.54	81.5	2.13	2.75	0.99	9.37	5.67
Feb	2.93	1.55	1.54	25.5	0.96	22.8	0.66	0.80	0.31	2.57	2.24
Mar	7.17	4.33	4.26	52.7	3.96	47.2	1.66	4.20	3.18	5.62	1.87
Apr	1.92	1.09	1.50	15.6	0.98	13.9	0.47	1.21	0.91	1.67	0.63
May	2.05	1.57	1.94	9.32	0.98	7.95	0.36	1.35	1.17	1.09	1.47
June	1.21	1.03	1.30	3.35	0.85	3.05	0.24	0.24	0.17	0.40	1.58
July	2.60	2.35	1.98	4.90	2.05	4.12	0.30	0.24	0.15	0.47	3.24
Aug	2.35	1.49	1.81	16.1	0.70	14.1	0.62	0.46	0.15	1.40	2.26
Sept	1.44	1.00	1.40	8.45	0.59	7.23	0.24	0.26	0.10	0.85	1.94
Oct	1.82	1.04	1.37	15.1	0.98	12.9	0.42	0.49	0.21	1.49	1.60
Nov	3.62	0.99	1.87	48.6	0.95	43.6	1.67	1.60	0.65	4.92	1.09
Dec	6.63	2.82	3.74	70.8	2.81	63.1	1.87	2.29	0.93	7.17	3.80
Annual	42.1	22.8	27.6	362	18.3	319	10.6	15.8	8.91	36.8	26.8

Data completeness (Monthly)

2007	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	87	87	87	100
Feb	99	99	99	99	99	99	99	99	99	99	98	98	98	100
Mar	100	100	100	100	100	100	100	100	100	100	98	98	98	100
Apr	97	97	97	97	97	97	97	97	97	97	97	97	97	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	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Dec	96	96	96	96	96	96	96	96	96	96	96	96	96	100
Annual	99	99	99	99	99	99	99	99	99	99	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 3.25 Monthly results

Site: Banryu

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	61.3	54.3	67.0	132	54.8	116	6.0	11.0	8.5	15.0	83.3	4.08	7.02	69.7
Feb	57.9	52.2	61.1	105	45.6	94.2	5.2	9.1	7.0	12.8	94.0	4.03	7.34	69.0
Mar	43.9	41.1	33.2	50.5	37.3	47.8	3.7	23.6	22.6	9.2	21.6	4.67	3.15	64.5
Apr	50.9	40.4	36.7	198	34.3	174	5.8	30.3	26.6	24.2	14.6	4.83	4.80	43.0
May	11.6	11.0	9.9	11.5	8.2	9.7	<1.0	4.0	3.8	1.8	10.7	4.97	1.01	104.5
June	14.8	14.2	15.8	12.5	16.0	9.8	<1.0	1.1	0.9	1.2	21.4	4.67	1.53	134.0
July	16.7	13.5	12.6	59.6	14.2	53.1	1.8	2.0	0.9	6.0	18.8	4.73	2.05	209.0
Aug	8.7	7.8	10.9	18.1	5.7	14.7	<1.0	1.1	0.8	1.7	15.3	4.81	1.16	204.5
Sept	14.2	12.3	14.8	38.2	8.3	31.5	<1.0	1.3	0.6	3.6	24.6	4.61	1.91	85.0
Oct	9.8	8.5	8.8	27.7	6.6	22.6	<1.0	1.1	0.6	2.6	14.6	4.84	1.27	117.0
Nov	43.5	32.4	35.5	212	28.6	184	5.8	10.5	6.5	21.7	46.0	4.34	5.81	74.4
Dec	96.6	70.2	139	488	80.1	438	14.8	30.3	20.8	53.4	121	3.92	14.3	98.5
Annual	27.9	23.1	29.2	89.2	22.3	78.6	3.1	7.4	5.7	9.9	32.3	4.49	3.36	1273.1
Max.	193	160	251	743	145	682	24.5	78.0	64.0	82.7	201	5.17	22.8	
Min.	5.6	5.1	4.7	1.5	1.9	<1.0	<1.0	0.6	0.3	0.4	6.8	3.70	0.52	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	4.27	3.78	4.67	9.21	3.82	8.11	0.42	0.77	0.59	1.05	5.81
Feb	3.99	3.60	4.21	7.24	3.15	6.50	0.36	0.63	0.49	0.88	6.48
Mar	2.83	2.65	2.14	3.25	2.41	3.08	0.24	1.53	1.46	0.59	1.39
Apr	2.19	1.74	1.58	8.51	1.48	7.47	0.25	1.30	1.14	1.04	0.63
May	1.21	1.15	1.04	1.20	0.86	1.01	0.09	0.42	0.39	0.19	1.11
June	1.98	1.90	2.12	1.67	2.15	1.31	0.11	0.15	0.12	0.16	2.87
July	3.49	2.82	2.64	12.5	2.97	11.1	0.38	0.43	0.19	1.25	3.93
Aug	1.78	1.60	2.23	3.70	1.17	3.00	0.14	0.23	0.16	0.34	3.14
Sept	1.20	1.04	1.26	3.24	0.70	2.68	0.08	0.11	0.05	0.31	2.09
Oct	1.15	0.99	1.03	3.24	0.77	2.64	0.10	0.13	0.07	0.30	1.71
Nov	3.24	2.41	2.64	15.7	2.13	13.7	0.43	0.78	0.48	1.61	3.42
Dec	9.51	6.91	13.7	48.0	7.89	43.1	1.46	2.98	2.05	5.26	11.9
Annual	35.5	29.5	37.1	114	28.4	100	3.89	9.37	7.21	12.5	41.1

Data completeness (Monthly)

2007	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	41	41	41	41	41	41	41	41	41	41	35	35	35	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	87	87	87	87	87	87	87	87	87	87	87	87	87	75
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	49	49	49	49	49	49	49	49	49	49	49	49	49	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	79	79	79	79	79	79	79	79	79	79	79	79	79	100
Annual	89	89	89	89	89	89	89	89	89	89	89	89	89	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 3.26 Monthly results

Site: Yusuhara

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	47.2	43.7	45.1	65.7	33.9	56.8	3.5	10.8	9.6	8.0	60.1	4.22	4.45	33.5
Feb	16.1	15.6	13.2	10.2	11.4	7.7	<1.0	1.5	1.3	1.1	27.2	4.56	1.71	114.0
Mar	18.3	17.6	14.7	14.6	16.0	12.1	1.2	4.7	4.4	2.0	24.0	4.62	1.69	141.0
Apr	19.0	18.4	13.0	11.1	15.2	10.5	<1.0	9.7	9.5	2.5	16.4	4.79	1.37	117.0
May	10.5	10.2	7.0	5.8	7.8	5.4	<1.0	2.5	2.4	1.0	13.3	4.88	0.92	161.5
June	12.6	12.3	13.6	6.9	12.0	5.7	<1.0	0.9	0.8	0.8	24.4	4.61	1.45	130.1
July	4.9	4.8	3.3	2.6	4.5	1.6	<1.0	0.3	0.3	<0.4	9.6	5.02	0.56	757.8
Aug	6.6	4.4	2.4	43.4	4.1	36.0	1.1	1.2	0.4	4.2	8.1	5.09	1.02	244.6
Sept	3.7	3.0	3.2	12.7	3.1	11.1	<1.0	0.5	0.3	1.5	9.3	5.03	0.60	397.0
Oct	6.3	6.0	7.1	7.1	3.9	4.6	<1.0	0.4	0.3	0.7	14.1	4.85	0.77	94.0
Nov	8.0	7.5	7.2	8.4	7.4	8.4	<1.0	0.8	0.6	0.8	13.7	4.86	0.85	28.5
Dec	24.5	20.5	18.0	78.3	15.7	66.2	2.0	7.3	5.9	8.5	42.1	4.38	2.95	153.5
Annual	9.5	8.7	7.2	16.2	7.4	13.5	<1.0	2.0	1.7	1.8	15.3	4.81	1.06	2372.5
Max.	170	155	244	276	185	250	15.9	73	73	34.1	240	6.08	13.5	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.8	3.62	0.16	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	1.58	1.47	1.51	2.20	1.14	1.90	0.12	0.36	0.32	0.27	2.01
Feb	1.83	1.78	1.50	1.16	1.30	0.88	0.09	0.17	0.15	0.12	3.10
Mar	2.58	2.48	2.07	2.06	2.26	1.71	0.17	0.66	0.62	0.28	3.38
Apr	2.23	2.15	1.52	1.30	1.78	1.23	0.11	1.13	1.11	0.29	1.91
May	1.69	1.64	1.13	0.94	1.25	0.86	0.07	0.41	0.39	0.16	2.15
June	1.64	1.60	1.77	0.90	1.56	0.75	0.08	0.12	0.10	0.10	3.17
July	3.71	3.64	2.47	1.98	3.42	1.25	0.14	0.23	0.20	0.10	7.29
Aug	1.62	1.09	0.59	10.6	1.00	8.81	0.27	0.29	0.10	1.04	1.97
Sept	1.47	1.21	1.25	5.03	1.23	4.40	0.15	0.20	0.11	0.58	3.70
Oct	0.59	0.56	0.67	0.67	0.37	0.43	0.02	0.04	0.03	0.06	1.32
Nov	0.23	0.21	0.21	0.24	0.21	0.24	0.01	0.02	0.02	0.02	0.39
Dec	3.76	3.14	2.76	12.0	2.42	10.2	0.31	1.12	0.90	1.30	6.47
Annual	22.5	20.6	17.1	38.5	17.7	32.1	1.51	4.66	3.97	4.27	36.4

Data completeness (Monthly)

2007	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	70	70	70	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	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Oct	100	100	100	100	100	100	100	100	100	100	99	99	99	90
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	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	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 3.27 Monthly results

Site: Hedo

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	26.4	14.3	9.5	231	10.8	201	5.5	11.5	7.2	22.8	17.7	4.75	4.18	175.0
Feb	20.2	14.7	11.1	105	16.2	91.4	4.2	8.1	6.1	10.1	17.7	4.75	2.42	52.5
Mar	22.1	10.1	11.4	230	14.1	199	5.0	8.2	3.9	22.9	12.8	4.89	3.55	193.5
Apr	15.4	10.2	8.5	97.8	14.4	85.3	2.7	5.6	3.8	10.0	11.4	4.94	2.03	253.4
May	14.0	11.0	10.2	53.3	11.8	48.2	1.6	3.0	1.9	5.8	20.9	4.68	1.78	205.4
June	4.4	2.3	3.1	39.1	2.8	34.4	<1.0	1.5	0.7	4.0	5.6	5.25	0.87	402.8
July	19.1	4.9	20.2	265	12.8	236	7.1	9.2	4.2	28.3	21.1	4.68	4.93	226.0
Aug	5.0	1.7	2.4	62.4	3.1	55.0	1.4	1.8	0.6	6.3	5.4	5.27	1.16	282.2
Sept	8.8	2.6	3.2	113	3.7	103	2.6	3.1	0.9	12.0	5.9	5.23	2.07	211.5
Oct	23.5	13.5	15.4	179	14.8	165	5.2	5.1	1.5	19.5	21.4	4.67	4.01	41.4
Nov	18.0	5.1	5.7	241	5.3	213	5.0	5.6	1.0	24.2	8.4	5.07	3.67	418.0
Dec	22.2	6.6	6.3	288	5.6	260	5.8	7.4	1.8	29.5	9.1	5.04	4.36	239.7
Annual	14.4	6.6	6.4	146	7.5	129	3.3	4.9	2.1	14.8	10.2	4.99	2.54	2701.5
Max.	2510	286	900	42900	640	36900	880	935	159	4050	447	6.86	340	
Min.	<1.0	<1.0	<1.0	2.0	<1.0	2.0	<1.0	0.5	<0.2	<0.4	0.1	3.35	0.17	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	4.61	2.50	1.66	40.4	1.89	35.1	0.96	2.02	1.26	3.99	3.09
Feb	1.06	0.77	0.58	5.52	0.85	4.80	0.22	0.43	0.32	0.53	0.93
Mar	4.28	1.96	2.20	44.5	2.72	38.5	0.97	1.59	0.76	4.42	2.47
Apr	3.89	2.59	2.16	24.8	3.65	21.6	0.68	1.42	0.95	2.54	2.90
May	2.87	2.27	2.09	11.0	2.43	9.90	0.32	0.61	0.40	1.19	4.30
June	1.77	0.93	1.24	15.8	1.14	13.9	0.39	0.59	0.29	1.61	2.27
July	4.32	1.11	4.56	59.9	2.90	53.3	1.61	2.09	0.94	6.40	4.77
Aug	1.41	0.48	0.67	17.6	0.88	15.5	0.40	0.52	0.18	1.79	1.52
Sept	1.86	0.55	0.68	24.0	0.79	21.8	0.54	0.66	0.19	2.53	1.24
Oct	0.97	0.56	0.64	7.41	0.61	6.84	0.21	0.21	0.06	0.81	0.89
Nov	7.51	2.14	2.36	101	2.22	89.2	2.11	2.33	0.40	10.1	3.53
Dec	5.33	1.57	1.52	69.0	1.33	62.3	1.40	1.78	0.43	7.06	2.17
Annual	38.8	17.8	17.3	394	20.2	349	8.95	13.3	5.75	40.0	27.7

Data completeness (Monthly)

2007	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	96	96	96	100
Mar	99	99	99	99	99	99	99	99	99	99	99	99	99	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	2	2	2	2	2	2	2	2	2	2	2	2	2	93
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	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	99	99	99	100
Annual	92	92	92	92	92	92	92	92	92	92	91	91	91	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 3.28 Monthly results

Site: Ogasawara

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	10.6	4.8	5.6	111	5.2	96.6	2.4	3.3	1.2	10.8	11.4	4.94	2.18	84.5
Feb	22.5	8.7	8.2	275	9.9	229	5.0	6.5	1.6	26.4	18.0	4.74	4.36	65.5
Mar	16.9	8.6	11.6	154	12.7	137	3.8	5.8	2.8	16.3	13.9	4.86	2.81	70.8
Apr	15.8	10.5	9.7	99.9	16.3	88.5	2.5	4.7	2.8	10.1	9.5	5.02	2.33	90.0
May	8.0	5.7	3.9	41.6	7.5	37.8	1.2	2.3	1.5	4.2	10.5	4.98	1.16	193.0
June	8.6	4.2	6.2	82.8	5.6	73.7	1.8	2.9	1.3	8.5	10.0	5.00	1.63	179.0
July	17.9	15.1	11.3	54.5	26.7	46.7	5.5	3.5	2.5	5.9	16.0	4.80	1.96	100.5
Aug	6.1	1.8	2.0	83.4	12.3	70.6	1.6	2.8	1.3	7.9	4.4	5.36	1.55	62.0
Sept	12.9	1.8	2.1	242	4.8	210	4.3	5.3	0.7	22.2	5.3	5.28	3.43	207.5
Oct	9.5	1.1	<1.0	161	3.3	138	4.0	3.7	0.7	15.1	2.8	5.55	2.38	159.5
Nov	9.9	1.6	2.6	172	2.0	145	2.9	4.5	1.3	16.4	8.1	5.09	2.72	140.7
Dec	26.5	7.4	6.1	368	11.8	317	6.5	8.9	2.2	36.1	13.7	4.86	5.58	214.0
Annual	12.7	4.9	4.9	154	7.7	133	3.2	4.4	1.5	15.0	9.4	5.03	2.59	1566.9
Max.	212	76.7	240	2790	234	2440	54.4	107	60.9	270	105	6.81	24.9	
Min.	1.6	<1.0	<1.0	3.9	<1.0	3.8	<1.0	0.7	<0.2	1.0	0.2	3.98	0.44	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.90	0.41	0.47	9.39	0.44	8.16	0.20	0.28	0.10	0.91	0.96
Feb	1.47	0.57	0.54	18.0	0.65	15.0	0.33	0.43	0.10	1.73	1.18
Mar	1.19	0.61	0.82	10.9	0.90	9.71	0.27	0.41	0.20	1.15	0.98
Apr	1.42	0.94	0.88	8.99	1.47	7.96	0.22	0.42	0.25	0.91	0.86
May	1.54	1.10	0.75	8.03	1.44	7.29	0.24	0.44	0.28	0.81	2.03
June	1.54	0.75	1.11	14.8	1.00	13.2	0.32	0.51	0.23	1.52	1.79
July	1.80	1.52	1.13	5.47	2.68	4.69	0.55	0.35	0.25	0.60	1.60
Aug	0.38	0.11	0.12	5.17	0.76	4.38	0.10	0.17	0.08	0.49	0.27
Sept	2.68	0.36	0.43	50.1	0.99	43.6	0.89	1.09	0.15	4.60	1.09
Oct	1.51	0.18	0.05	25.8	0.52	22.0	0.64	0.59	0.11	2.41	0.45
Nov	1.40	0.22	0.36	24.2	0.29	20.4	0.40	0.63	0.19	2.30	1.13
Dec	5.66	1.59	1.31	78.6	2.52	67.8	1.40	1.90	0.47	7.73	2.93
Annual	19.9	7.61	7.64	241	12.1	209	4.97	6.83	2.34	23.4	14.7

Data completeness (Monthly)

2007	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	98	98	98	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	99	99	99	100
May	93	93	93	93	93	93	93	93	93	93	93	93	93	97
June	100	100	100	100	100	100	100	100	100	100	99	99	99	100
July	11	11	11	11	11	11	11	11	11	11	11	11	11	100
Aug	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Sept	55	55	55	55	55	55	55	55	55	55	55	55	55	97
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	76	76	76	76	76	76	76	76	76	76	76	76	76	100
Dec	57	57	57	57	57	57	57	57	57	57	56	56	56	100
Annual	79	79	79	79	79	79	79	79	79	79	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 3.29 Monthly results

Site: Tokyo

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Feb	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Mar	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Apr	30.3	28.4	42.6	37.1	53.3	30.2	2.4	7.8	7.2	4.0	32.4	4.49	2.97	73.4
May	20.1	19.2	19.2	17.4	30.0	14.3	1.1	5.8	5.4	2.4	22.1	4.65	1.74	113.7
June	27.8	26.7	43.1	20.1	56.9	18.9	2.9	11.1	10.7	3.1	18.0	4.74	2.05	72.9
July	18.4	17.9	18.3	11.3	27.6	7.4	<1.0	4.0	3.8	1.2	20.4	4.69	1.60	247.8
Aug	52.0	48.2	77.1	73.0	87.9	62.4	4.0	20.9	19.5	9.5	33.4	4.48	4.17	8.9
Sept	12.1	7.4	10.9	93.6	17.2	78.7	1.7	3.8	2.1	9.0	9.7	5.02	2.02	326.1
Oct	7.9	6.9	13.3	15.1	15.0	16.4	<1.0	2.3	1.9	1.6	8.8	5.05	0.87	128.4
Nov	26.5	24.9	23.4	32.1	39.8	26.3	1.8	4.5	3.9	3.3	30.2	4.52	2.45	38.2
Dec	13.1	12.3	18.1	15.3	24.9	12.7	1.0	6.9	6.6	1.9	10.1	5.00	1.32	70.3
Annual	17.1	15.0	19.5	41.1	27.7	34.5	1.4	5.0	4.2	4.2	16.3	4.79	1.80	1079.6
Max.	326	325	580	679	631	729	22.2	245	242	63.9	331	6.95	18.2	
Min.	1.3	1.3	2.6	<1.0	3.2	<1.0	<1.0	0.4	0.4	<0.4	0.1	3.48	0.32	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	**	**	**	**	**	**	**	**	**	**	**
Feb	**	**	**	**	**	**	**	**	**	**	**
Mar	**	**	**	**	**	**	**	**	**	**	**
Apr	2.22	2.09	3.12	2.72	3.91	2.22	0.18	0.58	0.53	0.29	2.38
May	2.28	2.18	2.18	1.97	3.41	1.63	0.12	0.65	0.62	0.28	2.52
June	2.03	1.95	3.14	1.47	4.15	1.38	0.21	0.81	0.78	0.23	1.31
July	4.55	4.44	4.52	2.80	6.84	1.83	0.17	0.98	0.94	0.29	5.05
Aug	0.46	0.43	0.69	0.65	0.78	0.56	0.04	0.19	0.17	0.09	0.30
Sept	3.96	2.41	3.54	30.5	5.62	25.7	0.56	1.23	0.68	2.93	3.15
Oct	1.01	0.88	1.71	1.94	1.93	2.10	0.09	0.29	0.25	0.20	1.13
Nov	1.01	0.95	0.89	1.22	1.52	1.00	0.07	0.17	0.15	0.12	1.15
Dec	0.92	0.86	1.27	1.07	1.75	0.89	0.07	0.48	0.46	0.14	0.71
Annual	18.4	16.2	21.0	44.4	29.9	37.3	1.51	5.38	4.58	4.56	17.6

Data completeness (Monthly)

2007	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
Feb	**	**	**	**	**	**	**	**	**	**	**	**	**	0
Mar	**	**	**	**	**	**	**	**	**	**	**	**	**	0
Apr	100	100	100	100	100	100	100	100	100	100	99	99	99	73
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	99	99	99	100
July	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Aug	94	94	94	94	94	94	94	94	94	94	62	62	62	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	99	99	99	100
Nov	100	100	100	100	100	100	100	100	100	100	98	98	98	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	99	99	99	73

[--] 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: Vientiane

Country: Lao PDR

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	8.9	8.7	15.0	12.3	21.8	3.8	3.7	3.1	3.0	1.4	3.8	5.42	0.74	51.6
May	5.2	5.0	10.6	8.1	20.3	2.6	1.8	1.5	1.4	0.6	2.6	5.58	0.49	185.0
June	6.3	6.2	8.7	8.0	13.6	2.5	3.0	4.5	4.4	0.9	1.9	5.71	0.49	230.9
July	5.7	5.5	7.7	9.9	7.0	4.8	3.1	6.4	6.3	0.8	1.7	5.78	0.47	56.7
Aug	3.7	3.6	6.6	6.8	8.0	2.4	1.2	2.9	2.9	0.4	2.6	5.59	0.37	370.7
Sept	3.8	3.7	3.5	7.3	8.6	1.4	1.0	2.8	2.8	<0.4	1.5	5.82	0.28	344.9
Oct	4.1	4.0	5.1	4.7	5.7	2.5	1.1	2.3	2.3	1.7	2.0	5.70	0.33	156.1
Nov	6.5	6.2	2.2	10.2	5.8	5.0	4.5	3.4	3.3	2.3	1.6	5.79	0.41	3.2
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	4.7	4.5	6.9	7.4	10.9	2.4	1.7	3.0	3.0	0.7	2.2	5.67	0.40	1399.0
Max.	13.8	13.6	15.0	13.4	21.8	7.2	8.7	8.3	8.2	3.6	5.5	6.21	0.74	
Min.	2.3	2.2	2.1	2.3	4.6	<1.0	<1.0	1.1	1.1	<0.4	0.6	5.26	0.24	

Wet deposition (Monthly)

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

2007	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	0.46	0.45	0.77	0.64	1.12	0.19	0.19	0.16	0.16	0.07	0.20
May	0.95	0.92	1.96	1.50	3.76	0.49	0.33	0.27	0.26	0.12	0.48
June	1.46	1.42	2.01	1.85	3.15	0.59	0.69	1.03	1.02	0.21	0.45
July	0.33	0.31	0.44	0.56	0.40	0.27	0.18	0.36	0.36	0.05	0.09
Aug	1.38	1.33	2.46	2.54	2.96	0.90	0.43	1.08	1.06	0.16	0.96
Sept	1.30	1.27	1.20	2.53	2.97	0.49	0.35	0.98	0.97	0.10	0.53
Oct	0.64	0.62	0.79	0.74	0.89	0.38	0.17	0.36	0.35	0.26	0.31
Nov	0.02	0.02	<0.01	0.03	0.02	0.02	0.01	0.01	0.01	<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	6.54	6.34	9.65	10.4	15.3	3.32	2.37	4.25	4.18	0.98	3.02

Data completeness (Monthly)

2007	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 3.31 Monthly results

Site: Petaling Jaya

Country: Malaysia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	11.0	10.9	21.3	4.7	19.8	1.9	<1.0	2.5	2.5	<0.4	18.7	4.73	1.11	269.2
Feb	23.1	22.7	45.9	9.1	41.0	6.2	1.7	5.7	5.6	0.7	46.0	4.34	2.28	138.6
Mar	14.9	14.7	26.8	6.8	21.8	4.0	1.3	3.7	3.6	0.5	27.0	4.57	1.47	390.8
Apr	19.9	19.7	43.0	6.6	24.7	3.5	1.4	4.7	4.6	0.6	49.2	4.31	2.20	349.9
May	15.5	15.3	30.3	6.4	18.8	4.5	<1.0	5.3	5.2	0.6	28.7	4.54	1.47	195.6
June	17.6	17.2	31.7	6.1	25.6	6.2	1.1	3.9	3.8	0.7	28.3	4.55	1.50	334.4
July	10.4	10.2	20.5	5.7	18.9	3.5	<1.0	5.8	5.8	<0.4	17.4	4.76	0.97	212.2
Aug	13.8	13.5	25.6	6.8	14.8	4.2	<1.0	5.0	4.9	0.6	24.8	4.61	1.40	151.0
Sept	12.2	12.0	22.8	5.6	10.4	3.2	1.1	5.2	5.1	0.6	28.0	4.55	1.31	84.8
Oct	11.7	11.6	16.9	4.6	11.4	2.4	<1.0	2.4	2.3	<0.4	24.0	4.62	1.19	352.6
Nov	8.7	8.6	18.3	3.4	9.3	1.8	<1.0	3.2	3.2	<0.4	22.5	4.65	1.03	270.0
Dec	7.8	7.7	19.4	4.3	13.5	2.8	<1.0	3.2	3.1	<0.4	16.7	4.78	0.90	271.6
Annual	13.8	13.6	26.6	5.7	19.1	3.6	<1.0	3.9	3.9	<0.4	27.6	4.56	1.40	3020.7
Max.	40	39	76.2	31.5	85	36.4	8.3	24	23	6.3	66.1	5.22	3.69	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	6.0	4.18	0.45	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	2.97	2.94	5.74	1.28	5.32	0.52	0.24	0.68	0.67	0.00	5.03
Feb	3.20	3.15	6.36	1.26	5.68	0.86	0.23	0.79	0.77	0.10	6.38
Mar	5.84	5.74	10.5	2.66	8.50	1.58	0.50	1.43	1.40	0.21	10.5
Apr	6.98	6.90	15.0	2.30	8.63	1.23	0.51	1.63	1.61	0.22	17.2
May	3.04	2.99	5.92	1.24	3.67	0.88	0.16	1.04	1.02	0.12	5.61
June	5.87	5.75	10.6	2.05	8.57	2.08	0.37	1.31	1.27	0.22	9.47
July	2.21	2.16	4.35	1.21	4.00	0.75	0.14	1.24	1.22	0.04	3.70
Aug	2.08	2.04	3.87	1.02	2.24	0.63	0.14	0.76	0.75	0.09	3.74
Sept	1.03	1.02	1.93	0.48	0.88	0.27	0.09	0.44	0.43	0.05	2.37
Oct	4.13	4.07	5.97	1.61	4.03	0.86	0.23	0.83	0.81	0.07	8.46
Nov	2.35	2.32	4.95	0.93	2.51	0.48	0.19	0.87	0.86	0.06	6.06
Dec	2.13	2.08	5.26	1.18	3.66	0.76	0.17	0.87	0.85	0.00	4.53
Annual	41.8	41.2	80.5	17.2	57.7	10.9	2.97	11.9	11.7	1.16	83.2

Data completeness (Monthly)

2007	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	97	97	97	100
Aug	100	100	100	100	100	100	100	100	100	100	92	92	92	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	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	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 3.32 Monthly results

Site: Tanah Rata

Country: Malaysia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	6.0	5.22	0.23	104.8
Feb	4.1	4.0	4.5	2.1	6.5	2.0	<1.0	0.4	0.4	<0.4	11.5	4.94	0.50	117.2
Mar	4.1	4.0	4.6	2.0	21.1	2.2	2.7	0.8	0.7	0.5	12.4	4.91	0.76	321.0
Apr	2.9	2.8	1.6	1.5	<1.0	1.0	<1.0	0.5	0.5	<0.4	9.8	5.01	0.38	294.4
May	16.6	16.5	15.1	5.3	6.9	1.8	<1.0	2.2	2.2	<0.4	40.8	4.39	1.60	181.0
June	2.6	2.6	3.6	1.2	<1.0	<1.0	<1.0	0.5	0.5	<0.4	10.6	4.97	0.40	322.8
July	3.0	3.0	6.4	1.9	2.8	<1.0	<1.0	3.7	3.7	<0.4	7.3	5.14	0.38	258.4
Aug	2.9	2.6	5.2	1.6	2.1	4.5	<1.0	1.6	1.5	<0.4	9.9	5.00	0.57	271.4
Sept	4.1	4.0	3.8	2.5	3.4	2.1	<1.0	1.2	1.2	<0.4	9.7	5.01	0.48	169.8
Oct	1.9	1.9	2.3	<1.0	<1.0	<1.0	<1.0	0.5	0.5	<0.4	9.0	5.04	0.33	395.6
Nov	2.0	1.9	3.4	<1.0	1.1	1.1	<1.0	0.6	0.6	<0.4	7.0	5.16	0.38	334.1
Dec	1.1	<1.0	1.3	2.1	1.5	2.3	<1.0	0.6	0.6	<0.4	4.4	5.36	0.21	197.6
Annual	3.5	3.4	4.2	1.7	3.9	1.5	<1.0	1.0	1.0	<0.4	11.1	4.95	0.51	2968.1
Max.	37.8	37.6	37.0	9.7	54.1	11.4	6.3	9.0	9.0	1.0	87.1	6.21	3.41	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.6	4.06	0.18	

Wet deposition (Monthly)

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

2007	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	0.00	0.05	0.00	0.00	0.01	0.00	0.00	0.00	0.63
Feb	0.48	0.46	0.53	0.24	0.76	0.23	0.07	0.05	0.04	0.00	1.35
Mar	1.33	1.29	1.46	0.63	6.76	0.69	0.85	0.25	0.24	0.16	3.99
Apr	0.84	0.83	0.47	0.43	0.11	0.31	0.12	0.15	0.15	0.00	2.90
May	3.00	2.98	2.73	0.96	1.25	0.33	0.16	0.41	0.40	0.07	7.39
June	0.84	0.83	1.18	0.37	0.03	0.28	0.13	0.16	0.16	<0.01	3.42
July	0.78	0.77	1.66	0.48	0.72	0.21	0.09	0.95	0.94	0.05	1.88
Aug	0.79	0.71	1.41	0.43	0.57	1.23	0.10	0.42	0.39	0.01	2.69
Sept	0.70	0.68	0.64	0.42	0.58	0.35	0.14	0.21	0.20	0.02	1.64
Oct	0.76	0.75	0.92	0.33	0.19	0.11	0.09	0.19	0.19	0.00	3.58
Nov	0.67	0.65	1.14	0.28	0.35	0.36	0.09	0.20	0.19	0.00	2.34
Dec	0.21	0.18	0.25	0.41	0.29	0.46	0.07	0.12	0.11	<0.01	0.87
Annual	10.4	10.2	12.4	5.05	11.6	4.57	1.92	3.11	3.02	0.33	33.0

Data completeness (Monthly)

2007	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	79	79	79	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	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	97	97	97	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	89	89	89	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	81	81	81	100
Dec	100	100	100	100	100	100	100	100	100	100	97	97	97	100
Annual	100	100	100	100	100	100	100	100	100	100	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 3.33 Monthly results

Site: Danum Valley

Country: Malaysia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	1.8	1.4	<1.0	7.2	<1.0	7.3	<1.0	<0.2	<0.2	<0.4	4.3	5.36	0.29	344.9
Feb	6.8	5.4	2.5	24.5	1.5	23.1	1.8	0.8	0.3	1.7	13.5	4.87	0.87	97.5
Mar	1.6	1.4	<1.0	3.1	<1.0	2.8	<1.0	<0.2	<0.2	<0.4	7.5	5.13	0.36	159.8
Apr	6.0	5.6	7.1	6.6	6.0	5.6	2.4	1.2	1.1	1.2	10.6	4.97	0.55	89.5
May	1.2	1.2	<1.0	2.0	<1.0	1.1	<1.0	<0.2	<0.2	<0.4	6.9	5.16	0.28	271.6
June	1.3	1.2	<1.0	2.2	<1.0	1.6	<1.0	<0.2	<0.2	<0.4	5.7	5.24	0.23	360.9
July	1.8	1.6	1.9	3.9	8.4	2.4	2.8	2.2	2.1	0.6	1.2	5.92	0.30	179.3
Aug	3.1	2.9	<1.0	3.0	5.4	2.5	<1.0	0.8	0.7	0.5	14.3	4.84	0.32	320.7
Sept	2.3	2.2	<1.0	2.0	<1.0	1.6	1.1	0.8	0.8	0.4	8.3	5.08	0.29	205.7
Oct	2.3	2.2	<1.0	3.5	<1.0	2.7	1.4	0.3	0.3	<0.4	10.5	4.98	0.35	243.2
Nov	2.3	2.1	<1.0	5.1	<1.0	4.0	<1.0	0.6	0.5	<0.4	8.3	5.08	0.36	505.3
Dec	2.1	1.6	<1.0	8.7	<1.0	7.5	1.5	0.4	0.3	0.5	9.7	5.01	0.46	210.0
Annual	2.3	2.0	<1.0	4.9	1.3	4.1	1.1	0.5	0.5	0.4	8.0	5.10	0.35	2988.4
Max.	14.9	12.5	12.6	45.3	18.0	40.8	5.3	4.6	4.4	3.7	26.3	6.14	1.62	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.7	4.58	0.14	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.64	0.48	0.30	2.47	0.05	2.51	0.27	0.00	0.00	0.11	1.50
Feb	0.66	0.52	0.24	2.39	0.15	2.25	0.18	0.08	0.03	0.16	1.31
Mar	0.25	0.22	0.00	0.50	0.00	0.45	0.09	0.02	0.02	0.06	1.20
Apr	0.53	0.50	0.63	0.59	0.54	0.50	0.22	0.11	0.10	0.10	0.95
May	0.34	0.32	0.00	0.54	0.00	0.30	0.23	<0.01	<0.01	0.04	1.86
June	0.47	0.44	0.19	0.78	0.00	0.59	0.13	0.04	0.03	0.02	2.06
July	0.32	0.29	0.34	0.71	1.50	0.44	0.50	0.39	0.38	0.12	0.21
Aug	0.99	0.94	0.20	0.95	1.72	0.82	0.32	0.26	0.24	0.17	4.59
Sept	0.48	0.46	0.00	0.41	0.00	0.32	0.23	0.17	0.17	0.08	1.71
Oct	0.57	0.53	<0.01	0.86	0.00	0.66	0.33	0.08	0.07	0.05	2.56
Nov	1.17	1.05	0.04	2.60	0.00	2.01	0.40	0.29	0.25	0.17	4.22
Dec	0.44	0.34	0.07	1.83	0.00	1.57	0.31	0.09	0.06	0.11	2.04
Annual	6.85	6.11	2.02	14.6	3.95	12.4	3.22	1.53	1.36	1.20	24.0

Data completeness (Monthly)

2007	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	59	59	59	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	95	95	95	100
Aug	100	100	100	100	100	100	100	100	100	100	84	84	84	100
Sept	100	100	100	100	100	100	100	100	100	100	96	96	96	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	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 3.34 Monthly results

Site: Ulaanbaatar

Country: Mongolia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Feb	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Mar	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Apr	45.3	44.0	11.0	15.5	43.2	20.9	8.7	91.3	90.8	6.2	<0.1	7.06	4.11	0.4
May	32.7	32.2	23.6	13.2	86.2	8.1	4.6	34.3	34.1	6.0	0.4	6.45	2.35	12.1
June	24.0	23.6	25.0	9.1	94.0	6.9	1.8	18.9	18.8	5.6	0.2	6.71	2.13	23.1
July	19.9	19.6	21.9	9.3	81.4	5.7	<1.0	14.6	14.5	3.0	0.4	6.45	1.86	31.3
Aug	52.4	52.2	28.0	8.3	93.0	3.9	<1.0	68.9	68.8	5.4	0.8	6.07	2.25	55.7
Sept	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Oct	48.9	48.9	48.9	15.2	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.6	6.21	3.76	3.2
Nov	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Dec	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Annual	37.1	36.8	26.0	9.4	87.1	5.2	1.3	41.2	41.1	4.7	0.5	6.26	2.18	125.8
Max.	119	119	61.1	54.7	255	68.3	34.3	311	311	45.6	1.9	8.74	8.70	
Min.	6.9	6.8	4.4	3.7	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	<0.1	5.73	0.65	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	**	**	**	**	**	**	**	**	**	**	**
Feb	**	**	**	**	**	**	**	**	**	**	**
Mar	**	**	**	**	**	**	**	**	**	**	**
Apr	0.02	0.02	<0.01	<0.01	0.02	<0.01	<0.01	0.04	0.04	<0.01	<0.01
May	0.40	0.39	0.29	0.16	1.04	0.10	0.06	0.42	0.41	0.07	<0.01
June	0.55	0.54	0.58	0.21	2.17	0.16	0.04	0.44	0.43	0.13	<0.01
July	0.62	0.61	0.69	0.29	2.55	0.18	0.03	0.46	0.45	0.09	0.01
Aug	2.92	2.91	1.56	0.46	5.18	0.22	0.03	3.84	3.83	0.30	0.05
Sept	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	0.16	0.16	0.16	0.05	0.00	0.00	0.00	0.00	0.00	0.00	<0.01
Nov	**	**	**	**	**	**	**	**	**	**	**
Dec	**	**	**	**	**	**	**	**	**	**	**
Annual	4.67	4.63	3.27	1.18	11.0	0.66	0.16	5.19	5.17	0.60	0.07

Data completeness (Monthly)

2007	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
Feb	**	**	**	**	**	**	**	**	**	**	**	**	**	0
Mar	**	**	**	**	**	**	**	**	**	**	**	**	**	0
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
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	**	**	**	**	**	**	**	**	**	**	**	**	**	0
Dec	**	**	**	**	**	**	**	**	**	**	**	**	**	0
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	59

[--] 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: Terelj

Country: Mongolia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	49.4	38.7	20.4	46.3	62.3	178	27.7	90.9	87.1	12.4	0.1	6.83	5.43	3.7
Feb	71.4	66.6	14.5	46.3	27.4	79.4	33.0	109	107	11.6	0.2	6.75	5.32	0.7
Mar	34.0	31.7	10.9	20.5	22.4	38.0	13.5	64.8	64.0	7.5	0.3	6.51	2.86	6.9
Apr	44.8	41.0	7.5	39.8	116	65.6	33.5	52.1	50.7	8.9	0.5	6.28	4.46	4.5
May	26.2	25.8	22.7	11.6	46.5	8.0	4.5	28.1	27.9	5.5	0.5	6.28	1.84	10.4
June	23.5	23.1	19.9	9.3	67.7	6.1	3.8	16.3	16.2	3.1	0.6	6.24	1.56	51.7
July	8.0	7.9	13.2	6.8	38.6	1.6	2.4	6.6	6.5	0.6	4.6	5.34	0.84	38.0
Aug	36.1	36.1	22.8	7.7	14.3	<1.0	<1.0	0.7	0.7	<0.4	15.7	4.80	2.31	57.0
Sept	26.9	26.9	23.5	9.9	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.5	6.28	1.78	2.5
Oct	9.3	9.3	9.3	7.1	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.7	6.14	1.04	5.2
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Dec	<1.0	<1.0	4.4	6.8	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.9	6.06	8.04	4.6
Annual	25.0	24.5	18.3	10.3	38.8	9.4	3.8	13.6	13.4	2.1	6.0	5.22	2.02	185.2
Max.	584	584	254	56.4	215	221	63.0	421	419	38.0	209	7.13	28.9	
Min.	<1.0	<1.0	4.4	3.1	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	<0.1	3.68	0.48	

Wet deposition (Monthly)

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

2007	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	0.14	0.08	0.17	0.23	0.66	0.10	0.34	0.32	0.05	<0.01
Feb	0.05	0.05	0.01	0.03	0.02	0.06	0.02	0.08	0.07	<0.01	<0.01
Mar	0.23	0.22	0.07	0.14	0.15	0.26	0.09	0.45	0.44	0.05	<0.01
Apr	0.20	0.18	0.03	0.18	0.52	0.30	0.15	0.23	0.23	0.04	<0.01
May	0.27	0.27	0.24	0.12	0.48	0.08	0.05	0.29	0.29	0.06	<0.01
June	1.21	1.19	1.03	0.48	3.50	0.32	0.19	0.84	0.84	0.16	0.03
July	0.31	0.30	0.50	0.26	1.47	0.06	0.09	0.25	0.25	0.02	0.17
Aug	2.06	2.06	1.30	0.44	0.81	0.01	0.00	0.04	0.04	0.00	0.90
Sept	0.07	0.07	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	<0.01
Oct	0.05	0.05	0.05	0.04	0.00	0.00	0.00	0.00	0.00	0.00	<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	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	<0.01
Annual	4.63	4.53	3.39	1.91	7.19	1.74	0.70	2.52	2.48	0.38	1.12

Data completeness (Monthly)

2007	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	98	98	98	98	100	100	100	100	100	100	100	100	100	100
May	99	99	99	99	99	99	99	99	99	99	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 3.36 Monthly results

Site: Yangon

Country: Myanmar

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Feb	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Mar	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Apr	**	**	**	**	**	**	**	**	**	**	**	**	**	**
May	**	**	**	**	**	**	**	**	**	**	**	**	**	**
June	*	*	*	*	*	*	*	*	*	*	1.1	5.97	0.81	280.0
July	*	*	*	*	*	*	*	*	*	*	2.4	5.62	1.17	600.7
Aug	*	*	*	*	*	*	*	*	*	*	2.0	5.70	0.70	1043.0
Sept	*	*	*	*	*	*	*	*	*	*	3.1	5.51	0.33	1437.5
Oct	*	*	*	*	*	*	*	*	*	*	4.0	5.40	0.33	578.0
Nov	*	*	*	*	*	*	*	*	*	*	0.2	6.61	0.97	42.0
Dec	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Annual	*	*	*	*	*	*	*	*	*	*	2.7	5.57	0.60	3981.2
Max.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	36.3	7.48	2.08	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	<0.1	4.44	0.13	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	**	**	**	**	**	**	**	**	**	**	**
Feb	**	**	**	**	**	**	**	**	**	**	**
Mar	**	**	**	**	**	**	**	**	**	**	**
Apr	**	**	**	**	**	**	**	**	**	**	**
May	**	**	**	**	**	**	**	**	**	**	**
June	*	*	*	*	*	*	*	*	*	*	0.30
July	*	*	*	*	*	*	*	*	*	*	1.43
Aug	*	*	*	*	*	*	*	*	*	*	2.09
Sept	*	*	*	*	*	*	*	*	*	*	4.44
Oct	*	*	*	*	*	*	*	*	*	*	2.32
Nov	*	*	*	*	*	*	*	*	*	*	0.01
Dec	**	**	**	**	**	**	**	**	**	**	**
Annual	*	*	*	*	*	*	*	*	*	*	10.6

Data completeness (Monthly)

2007	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
Feb	**	**	**	**	**	**	**	**	**	**	**	**	**	0
Mar	**	**	**	**	**	**	**	**	**	**	**	**	**	0
Apr	**	**	**	**	**	**	**	**	**	**	**	**	**	0
May	**	**	**	**	**	**	**	**	**	**	**	**	**	0
June	0	0	0	0	0	0	0	0	0	0	99	99	99	40
July	0	0	0	0	0	0	0	0	0	0	98	98	98	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	**	**	**	**	**	**	**	**	**	**	**	**	**	0
Annual	0	0	0	0	0	0	0	0	0	0	100	100	100	45

[--] 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: Metro Manila

Country: Philippines

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	*	*	*	*	*	*	*	*	*	*	*	*	*	2.2
Feb	48.9	47.7	46.4	21.9	114	20.4	46.3	40.9	40.5	8.6	6.2	5.21	3.36	24.1
Mar	52.2	49.0	45.8	52.5	89.8	54.0	30.8	93.1	91.9	17.7	0.4	6.44	4.76	21.9
Apr	137	118	32.9	350	391	318	135	134	127	137	<0.1	7.10	25.7	25.8
May	19.0	18.3	16.9	10.3	32.9	11.2	3.5	7.6	7.4	3.5	4.2	5.38	1.25	408.5
June	88.8	87.8	114	24.3	154	16.4	12.7	57.8	57.4	7.0	3.8	5.42	4.70	86.5
July	27.8	27.0	20.7	20.6	41.4	12.0	2.6	11.3	11.1	2.5	10.9	4.96	1.54	161.1
Aug	17.2	15.9	9.4	32.7	20.7	20.9	2.5	6.3	5.9	3.5	6.4	5.19	1.06	1385.9
Sept	23.8	22.6	16.2	20.2	31.5	19.8	5.0	10.4	10.0	2.6	6.0	5.22	1.29	533.6
Oct	22.7	21.5	7.9	27.5	41.6	18.7	7.2	8.3	7.9	2.8	3.0	5.52	0.96	340.6
Nov	18.1	17.2	6.1	24.0	25.3	15.5	3.9	5.9	5.6	2.6	1.7	5.77	1.05	464.7
Dec	24.6	23.8	5.7	32.4	39.4	13.0	20.1	24.4	24.2	4.1	0.2	6.71	2.02	49.8
Annual	22.3	21.1	14.1	27.9	33.6	20.2	5.4	10.4	10.0	4.1	5.3	5.27	1.40	3504.7
Max.	137	122	174	350	391	318	135	134	127	137	20.0	7.10	25.7	
Min.	10.4	9.6	1.5	3.6	<1.0	5.0	1.4	2.7	2.6	1.0	<0.1	4.70	0.65	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	*	*	*	*	*	*	*	*	*	*	*
Feb	1.18	1.15	1.12	0.53	2.74	0.49	1.12	0.99	0.98	0.21	0.15
Mar	1.14	1.07	1.00	1.15	1.97	1.18	0.67	2.04	2.01	0.39	<0.01
Apr	3.55	3.05	0.85	9.02	10.1	8.20	3.49	3.46	3.28	3.54	<0.01
May	7.77	7.49	6.91	4.19	13.4	4.58	1.43	3.12	3.02	1.43	1.72
June	7.68	7.59	9.86	2.10	13.3	1.42	1.09	5.00	4.97	0.60	0.33
July	4.47	4.36	3.34	3.32	6.67	1.93	0.42	1.83	1.79	0.41	1.75
Aug	23.8	22.1	13.1	45.3	28.7	28.9	3.42	8.74	8.12	4.86	8.90
Sept	12.7	12.0	8.64	10.8	16.8	10.6	2.68	5.57	5.34	1.37	3.21
Oct	7.72	7.33	2.71	9.35	14.2	6.38	2.44	2.82	2.68	0.95	1.03
Nov	8.42	7.98	2.83	11.1	11.8	7.18	1.81	2.76	2.60	1.19	0.79
Dec	1.22	1.19	0.28	1.61	1.96	0.65	1.00	1.22	1.20	0.20	<0.01
Annual	78.1	73.9	49.4	97.8	118	70.8	18.9	36.4	34.9	14.5	18.7

Data completeness (Monthly)

2007	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	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	73	73	73	73	73	73	73	73	73	73	73	73	73	100
May	91	91	91	91	91	91	91	91	91	91	91	91	91	100
June	71	71	71	71	71	71	71	71	71	71	71	71	71	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	61	61	61	61	61	61	61	61	61	61	61	61	61	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	93	93	93	93	93	93	93	93	93	93	93	93	93	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: Los Banos

Country: Philippines

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	*	*	*	*	*	*	*	*	*	*	*	*	*	2.6
Feb	17.9	10.7	5.9	132	9.8	119	5.9	15.7	13.1	17.8	0.5	6.31	2.61	15.0
Mar	21.1	18.8	10.0	46.4	16.9	38.5	3.9	12.7	11.9	6.5	6.4	5.19	1.58	47.7
Apr	*	*	*	*	*	*	*	*	*	*	*	*	*	6.4
May	23.4	22.4	31.3	37.8	61.7	18.1	27.5	23.6	23.2	10.0	0.4	6.45	2.16	60.9
June	12.5	12.2	12.6	20.8	19.2	3.5	17.7	10.7	10.7	2.7	1.7	5.77	0.84	67.6
July	8.5	8.4	6.6	10.2	12.0	2.4	2.0	6.5	6.4	1.9	3.0	5.52	0.63	308.8
Aug	8.2	7.5	5.9	13.3	15.5	10.0	7.2	6.1	5.8	4.0	1.1	5.95	0.86	836.2
Sept	11.4	10.7	11.2	13.1	23.2	11.6	4.6	5.8	5.5	2.6	6.8	5.17	0.86	271.7
Oct	7.9	6.3	2.8	29.2	16.0	25.4	5.1	6.3	5.7	5.6	2.7	5.58	0.87	330.3
Nov	6.3	4.9	4.8	33.0	14.6	22.9	2.1	1.9	1.4	1.8	3.8	5.42	0.76	982.3
Dec	7.1	5.5	2.5	31.2	19.3	27.2	2.6	3.3	2.9	5.2	1.7	5.78	0.82	135.7
Annual	8.4	7.3	6.2	24.4	16.8	17.6	4.9	5.2	4.8	3.5	2.9	5.54	0.86	3096.7
Max.	45.5	42.3	46.8	231	125	201	87.0	46.2	45.0	27.7	17.0	6.65	5.33	
Min.	2.2	1.9	<1.0	5.1	3.3	1.5	<1.0	<0.2	<0.2	0.9	0.2	4.77	0.39	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	*	*	*	*	*	*	*	*	*	*	*
Feb	0.27	0.16	0.09	1.98	0.15	1.79	0.09	0.24	0.20	0.27	<0.01
Mar	1.01	0.90	0.48	2.22	0.81	1.84	0.19	0.61	0.57	0.31	0.31
Apr	*	*	*	*	*	*	*	*	*	*	*
May	1.43	1.36	1.91	2.30	3.76	1.10	1.68	1.44	1.41	0.61	0.02
June	0.84	0.83	0.85	1.41	1.30	0.24	1.20	0.73	0.72	0.18	0.12
July	2.62	2.58	2.03	3.14	3.69	0.74	0.62	2.00	1.98	0.58	0.93
Aug	6.82	6.31	4.96	11.1	12.9	8.39	6.01	5.07	4.89	3.34	0.93
Sept	3.11	2.92	3.04	3.55	6.31	3.15	1.25	1.57	1.50	0.71	1.84
Oct	2.60	2.10	0.93	9.64	5.28	8.39	1.70	2.07	1.89	1.84	0.88
Nov	6.15	4.80	4.72	32.4	14.3	22.5	2.09	1.87	1.38	1.79	3.72
Dec	0.96	0.74	0.34	4.24	2.62	3.69	0.35	0.45	0.39	0.70	0.23
Annual	26.0	22.7	19.4	75.5	52.1	54.4	15.2	16.1	14.9	10.7	9.01

Data completeness (Monthly)

2007	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	59	59	59	59	59	59	59	59	59	59	59	59	59	100
Mar	58	58	58	58	58	58	58	58	58	58	58	58	58	100
Apr	0	0	0	0	0	0	0	0	0	0	0	0	0	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	74	74	74	74	74	74	74	74	74	74	74	74	74	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	98	98	98	98	98	98	98	98	98	98	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 3.39 Monthly results

Site: Mt. St. Tomas

Country: Philippines

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	7.3	6.0	12.0	19.9	21.4	22.6	3.2	16.5	16.0	4.4	0.4	6.45	1.03	6.7
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Mar	8.0	7.5	6.6	7.4	43.8	8.8	5.2	15.4	15.2	2.3	0.4	6.42	1.59	137.3
Apr	9.9	9.3	11.2	7.7	19.1	9.7	5.7	22.7	22.5	2.2	0.9	6.05	0.89	100.4
May	6.0	5.9	5.5	4.0	5.6	1.8	1.1	12.0	11.9	1.1	2.1	5.67	0.53	486.2
June	8.3	7.9	8.6	3.1	11.5	6.3	3.7	39.7	39.6	1.5	2.4	5.61	1.17	386.8
July	5.1	5.1	5.8	2.1	15.2	<1.0	<1.0	46.0	45.9	2.1	0.2	6.76	1.48	265.0
Aug	5.8	5.3	4.9	11.2	3.1	8.1	3.6	36.8	36.7	2.9	1.2	5.90	1.41	685.8
Sept	4.1	3.9	4.7	3.1	4.0	3.4	2.0	14.0	13.9	1.2	6.9	5.16	0.95	455.4
Oct	8.7	7.9	6.7	16.8	13.2	13.0	1.1	2.9	2.8	3.6	11.7	4.93	1.19	278.8
Nov	2.6	2.3	2.4	9.7	4.3	4.3	<1.0	15.1	15.1	2.3	1.0	5.98	0.57	564.7
Dec	7.2	6.5	7.2	12.7	7.4	12.4	3.3	11.9	11.7	3.0	0.5	6.31	0.70	11.6
Annual	5.7	5.4	5.5	7.4	8.7	5.7	2.3	23.4	23.3	2.1	3.0	5.53	1.03	3378.8
Max.	28	27	34.5	38.4	61	26.0	15.3	146	145	7.3	38.0	9.23	5.34	
Min.	1.6	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	<0.1	4.42	0.17	

Wet deposition (Monthly)

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

2007	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	0.08	0.13	0.14	0.15	0.02	0.11	0.11	0.03	<0.01
Feb	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar	1.10	1.03	0.91	1.01	6.01	1.20	0.71	2.11	2.09	0.32	0.05
Apr	0.99	0.93	1.13	0.77	1.92	0.98	0.57	2.28	2.26	0.22	0.09
May	2.92	2.86	2.66	1.93	2.71	0.88	0.52	5.82	5.80	0.54	1.03
June	3.21	3.06	3.31	1.18	4.45	2.46	1.44	15.4	15.3	0.57	0.95
July	1.35	1.34	1.54	0.56	4.04	0.23	0.13	12.2	12.2	0.56	0.05
Aug	3.97	3.64	3.34	7.66	2.09	5.56	2.48	25.3	25.1	1.96	0.86
Sept	1.86	1.77	2.15	1.42	1.83	1.55	0.93	6.39	6.35	0.53	3.15
Oct	2.42	2.20	1.88	4.68	3.67	3.61	0.32	0.82	0.77	0.99	3.27
Nov	1.44	1.30	1.38	5.46	2.41	2.42	0.56	8.55	8.51	1.28	0.59
Dec	0.08	0.08	0.08	0.15	0.09	0.14	0.04	0.14	0.14	0.04	<0.01
Annual	19.4	18.2	18.5	24.9	29.4	19.2	7.73	79.0	78.7	7.03	10.0

Data completeness (Monthly)

2007	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
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 3.40 Monthly results

Site: Kanghwa

Country: Republic of Korea

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	88.0	79.7	93.1	163	74.4	138	9.8	31.0	28.0	21.9	50.1	4.30	7.60	4.0
Feb	88.9	85.5	99.0	74.5	133	56.0	14.7	38.8	37.6	15.4	57.4	4.24	6.52	4.0
Mar	46.1	42.9	43.6	60.1	62.2	53.1	5.5	25.1	23.9	10.6	13.5	4.87	3.17	71.4
Apr	102	92.5	107	177	142	165	13.6	44.8	41.2	33.0	23.1	4.64	7.73	42.0
May	39.2	37.8	33.1	27.5	51.4	23.2	3.9	18.3	17.8	5.8	13.7	4.86	2.46	137.3
June	33.8	33.1	22.3	36.1	74.3	11.5	18.2	4.0	3.7	1.5	18.7	4.73	2.40	56.7
July	22.5	21.8	15.2	25.6	31.5	10.9	17.7	2.8	2.6	0.9	16.5	4.78	3.14	246.7
Aug	18.0	16.2	15.2	35.3	27.3	28.9	4.6	2.0	1.4	2.0	23.9	4.62	1.82	247.0
Sept	2.7	2.5	4.1	6.0	8.9	2.5	1.1	2.3	2.2	<0.4	0.2	6.80	0.22	2.0
Oct	64.8	61.2	76.1	76.6	97.1	59.2	7.0	12.6	11.3	6.3	69.1	4.16	5.88	26.3
Nov	205	189	237	346	267	277	26.2	61.9	55.9	42.1	88.9	4.05	13.7	40.5
Dec	156	143	233	272	217	227	24.9	45.9	41.0	40.1	100	4.00	13.5	5.0
Annual	41.2	38.5	39.0	57.7	58.4	44.3	10.8	12.4	11.5	6.7	24.0	4.62	3.49	882.9
Max.	296	280	326	356	336	284	36.1	88	86	54.8	158	6.80	17.9	
Min.	2.7	2.5	4.1	4.0	8.9	2.5	<1.0	1.4	0.6	<0.4	0.2	3.80	0.22	

Wet deposition (Monthly)

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

2007	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	0.32	0.37	0.65	0.30	0.55	0.04	0.12	0.11	0.09	0.20
Feb	0.36	0.34	0.40	0.30	0.53	0.22	0.06	0.16	0.15	0.06	0.23
Mar	3.29	3.06	3.11	4.29	4.44	3.79	0.40	1.79	1.71	0.76	0.96
Apr	4.30	3.88	4.49	7.44	5.97	6.95	0.57	1.88	1.73	1.39	0.97
May	5.38	5.19	4.55	3.77	7.06	3.19	0.53	2.52	2.45	0.79	1.88
June	1.91	1.87	1.26	2.05	4.21	0.65	1.03	0.23	0.21	0.08	1.06
July	5.55	5.38	3.75	6.32	7.77	2.69	4.37	0.69	0.63	0.23	4.06
Aug	4.44	4.01	3.75	8.71	6.75	7.14	1.13	0.50	0.35	0.48	5.90
Sept	<0.01	<0.01	<0.01	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Oct	1.70	1.61	2.00	2.01	2.56	1.56	0.19	0.33	0.30	0.17	1.82
Nov	8.31	7.64	9.59	14.0	10.8	11.2	1.06	2.51	2.26	1.70	3.60
Dec	0.78	0.71	1.17	1.36	1.08	1.14	0.12	0.23	0.20	0.20	0.50
Annual	36.4	34.0	34.5	50.9	51.5	39.1	9.51	11.0	10.1	5.95	21.2

Data completeness (Monthly)

2007	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 3.41 Monthly results

Site: Cheju(Kosan)

Country: Republic of Korea

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	34.4	29.3	38.5	122	19.8	84.6	9.7	13.5	11.6	19.2	70.4	4.15	5.25	32.0
Feb	52.8	42.1	43.1	289	46.0	178	14.7	27.3	23.4	51.7	83.9	4.08	8.12	29.6
Mar	39.6	29.0	17.9	231	20.4	175	8.5	11.6	7.8	26.3	58.9	4.23	5.41	81.0
Apr	27.7	26.9	12.2	15.9	28.1	12.5	2.0	6.8	6.6	2.2	25.2	4.60	1.91	45.0
May	55.4	52.5	36.0	63.1	53.6	48.3	3.9	14.7	13.6	6.8	54.4	4.26	4.51	74.6
June	19.5	17.5	29.1	39.6	44.8	33.1	4.3	8.1	7.4	3.9	15.1	4.82	1.88	63.0
July	40.6	39.9	17.3	9.7	36.8	11.6	<1.0	2.7	2.4	0.6	46.2	4.33	2.74	277.5
Aug	11.3	4.4	8.0	138	3.8	115	2.8	3.8	1.4	10.2	14.4	4.84	2.42	181.2
Sept	59.0	46.9	4.4	162	30.1	202	18.4	22.7	18.4	3.5	5.7	5.24	4.32	311.0
Oct	14.7	11.3	10.8	75.0	15.4	56.5	2.0	3.5	2.3	5.2	24.0	4.62	2.03	96.0
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Dec	29.2	23.5	19.9	101	45.0	94.2	3.9	5.1	3.0	6.5	56.1	4.25	2.60	53.5
Annual	37.9	31.8	15.1	104	28.8	101	7.2	10.6	8.4	7.3	30.7	4.51	3.43	1244.4
Max.	148	140	165	430	187	328	49.2	163	160	109	158	7.00	15.0	
Min.	6.5	<1.0	1.2	6.0	2.1	5.3	<1.0	1.6	<0.2	<0.4	0.1	3.80	0.88	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	1.10	0.94	1.23	3.90	0.63	2.71	0.31	0.43	0.37	0.61	2.25
Feb	1.56	1.25	1.28	8.55	1.36	5.26	0.43	0.81	0.69	1.53	2.48
Mar	3.21	2.35	1.45	18.7	1.65	14.2	0.69	0.94	0.63	2.13	4.77
Apr	1.24	1.21	0.55	0.71	1.26	0.56	0.09	0.31	0.30	0.10	1.14
May	4.13	3.92	2.68	4.71	4.00	3.60	0.29	1.10	1.02	0.50	4.06
June	1.23	1.10	1.83	2.50	2.82	2.09	0.27	0.51	0.47	0.24	0.95
July	11.3	11.1	4.80	2.69	10.2	3.22	0.24	0.75	0.68	0.17	12.8
Aug	2.05	0.79	1.45	25.1	0.68	20.9	0.51	0.69	0.25	1.84	2.60
Sept	18.4	14.6	1.37	50.2	9.36	62.7	5.71	7.06	5.71	1.10	1.78
Oct	1.41	1.09	1.03	7.20	1.48	5.42	0.19	0.34	0.22	0.50	2.30
Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	1.56	1.26	1.06	5.42	2.41	5.04	0.21	0.27	0.16	0.35	3.00
Annual	47.1	39.5	18.7	130	35.9	126	8.94	13.2	10.5	9.09	38.2

Data completeness (Monthly)

2007	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	90	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 3.42 Monthly results

Site: Imsil

Country: Republic of Korea

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	205	203	232	23.7	283	20.9	13.8	100	99.7	69.2	4.0	5.40	11.0	10.5
Feb	64.6	63.2	48.5	27.7	63.5	23.5	12.8	32.3	31.8	9.9	1.4	5.86	2.86	45.0
Mar	80.0	78.7	49.1	27.3	99.4	22.8	15.8	63.8	63.3	15.0	1.1	5.95	4.12	101.3
Apr	71.6	70.4	50.7	24.7	124	20.6	15.3	38.5	38.0	6.5	0.2	6.70	3.60	17.0
May	40.6	40.1	19.9	17.1	53.7	9.2	12.4	16.5	16.3	3.1	1.6	5.80	1.58	72.0
June	33.6	33.2	24.1	15.0	77.5	7.6	10.2	5.9	5.8	2.2	7.3	5.14	2.10	63.5
July	28.9	28.3	14.6	10.6	49.1	10.4	8.0	8.8	8.6	0.7	0.8	6.12	1.43	200.5
Aug	13.9	13.1	7.8	18.7	12.2	13.7	11.8	7.0	6.7	1.0	0.2	6.76	0.80	361.0
Sept	11.4	10.9	4.5	20.3	17.0	7.7	18.3	3.8	3.7	0.6	<0.1	7.20	0.77	417.5
Oct	30.4	28.8	19.2	24.5	44.9	26.6	13.9	11.2	10.6	1.8	11.1	4.96	2.06	30.5
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Dec	111	101	110	206	167	160	47.2	37.4	34.0	33.4	44.1	4.36	7.57	25.2
Annual	28.8	27.9	18.1	22.4	40.0	15.0	14.3	13.7	13.3	3.6	1.9	5.73	1.58	1344.0
Max.	214	212	232	255	283	181	74.8	202	201	69.2	79.4	7.70	11.0	
Min.	9.0	8.7	2.2	4.4	6.3	3.1	2.5	3.4	3.3	<0.4	<0.1	4.10	0.49	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	2.15	2.13	2.43	0.25	2.97	0.22	0.15	1.05	1.05	0.73	0.04
Feb	2.91	2.84	2.18	1.25	2.86	1.06	0.58	1.45	1.43	0.45	0.06
Mar	8.11	7.97	4.97	2.77	10.1	2.31	1.60	6.47	6.42	1.52	0.11
Apr	1.22	1.20	0.86	0.42	2.10	0.35	0.26	0.65	0.65	0.11	<0.01
May	2.93	2.89	1.43	1.23	3.87	0.67	0.89	1.19	1.18	0.22	0.11
June	2.13	2.11	1.53	0.95	4.92	0.49	0.65	0.38	0.37	0.14	0.46
July	5.80	5.67	2.92	2.13	9.84	2.08	1.61	1.77	1.72	0.14	0.15
Aug	5.04	4.74	2.81	6.74	4.41	4.93	4.27	2.52	2.42	0.36	0.06
Sept	4.77	4.57	1.87	8.46	7.09	3.23	7.62	1.60	1.53	0.23	0.03
Oct	0.93	0.88	0.58	0.75	1.37	0.81	0.42	0.34	0.32	0.05	0.34
Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	2.79	2.54	2.76	5.20	4.22	4.02	1.19	0.94	0.86	0.84	1.11
Annual	38.8	37.5	24.4	30.1	53.7	20.2	19.2	18.4	17.9	4.80	2.49

Data completeness (Monthly)

2007	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 3.43 Monthly results

Site: Mondy

Country: Russia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	6.6	6.2	10.0	2.6	2.4	6.5	2.8	19.7	19.6	4.0	0.8	6.08	0.72	6.8
Feb	28.9	25.7	13.2	29.3	30.5	53.1	12.0	82.8	81.7	11.5	0.1	6.96	3.21	7.6
Mar	14.8	13.2	15.4	24.7	23.4	26.2	3.0	37.3	36.8	5.5	1.1	5.97	1.63	3.6
Apr	5.1	5.0	4.8	2.1	8.7	2.9	1.2	5.4	5.3	1.1	2.1	5.67	0.43	18.9
May	7.1	7.1	4.5	1.6	9.7	<1.0	<1.0	3.8	3.8	1.0	4.6	5.34	0.48	30.3
June	3.9	3.8	5.5	1.7	4.4	1.4	<1.0	2.0	2.0	0.8	2.7	5.57	0.34	60.7
July	13.5	13.4	10.4	3.9	61.1	3.1	3.8	5.7	5.6	1.9	3.3	5.48	1.20	133.4
Aug	7.3	7.2	15.3	9.3	37.8	1.3	2.6	2.7	2.7	1.6	2.9	5.54	0.74	6.0
Sept	7.7	7.7	9.0	5.0	16.5	1.4	1.6	6.0	6.0	1.6	3.3	5.49	0.55	70.0
Oct	9.3	8.9	9.0	4.2	3.3	6.1	4.9	23.7	23.6	4.1	0.9	6.07	0.79	5.0
Nov	5.5	5.4	8.9	2.3	13.9	2.6	2.6	15.7	15.7	2.9	0.7	6.16	0.62	8.5
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	9.3	9.1	8.5	3.9	30.1	3.1	2.5	6.9	6.8	1.8	3.0	5.52	0.80	350.6
Max.	28.9	25.7	23.4	95.6	161	94.4	12.0	82.8	81.7	11.5	7.6	6.96	3.21	
Min.	2.4	2.3	2.4	<1.0	<1.0	<1.0	<1.0	0.3	<0.2	0.4	0.1	5.12	0.24	

Wet deposition (Monthly)

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

2007	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	0.02	0.02	0.04	0.02	0.13	0.13	0.03	<0.01
Feb	0.22	0.20	0.10	0.22	0.23	0.40	0.09	0.63	0.62	0.09	<0.01
Mar	0.05	0.05	0.05	0.09	0.08	0.09	0.01	0.13	0.13	0.02	<0.01
Apr	0.10	0.09	0.09	0.04	0.16	0.06	0.02	0.10	0.10	0.02	0.04
May	0.22	0.21	0.14	0.05	0.30	0.02	0.03	0.12	0.12	0.03	0.14
June	0.24	0.23	0.34	0.10	0.26	0.08	0.06	0.12	0.12	0.05	0.16
July	1.81	1.78	1.39	0.51	8.16	0.41	0.50	0.76	0.75	0.26	0.44
Aug	0.04	0.04	0.09	0.06	0.23	<0.01	0.02	0.02	0.02	<0.01	0.02
Sept	0.54	0.54	0.63	0.35	1.16	0.10	0.11	0.42	0.42	0.11	0.23
Oct	0.05	0.04	0.05	0.02	0.02	0.03	0.02	0.12	0.12	0.02	<0.01
Nov	0.05	0.05	0.08	0.02	0.12	0.02	0.02	0.13	0.13	0.02	<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	3.26	3.20	2.99	1.38	10.6	1.10	0.87	2.42	2.40	0.62	1.06

Data completeness (Monthly)

2007	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	52	52	52	52	52	52	52	52	52	52	52	52	52	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	96	96	96	96	96	96	96	96	96	96	96	96	96	100
Aug	83	83	83	83	83	83	83	83	83	83	83	83	83	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	97	97	97	97	97	97	97	97	97	97	97	97	97	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: Listvyanka

Country: Russia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	12.9	12.5	33.2	4.2	3.7	5.4	3.2	12.0	11.9	2.4	21.2	4.67	1.42	11.8
Feb	26.1	25.7	49.5	6.1	6.0	7.4	1.4	33.7	33.6	4.6	8.9	5.05	1.67	12.5
Mar	22.0	21.5	34.9	7.6	6.6	9.4	2.4	26.4	26.2	4.2	8.2	5.09	1.38	11.3
Apr	52.7	51.8	45.1	10.2	49.5	14.7	9.0	47.9	47.6	11.7	15.0	4.82	2.95	8.5
May	15.1	15.0	8.9	5.1	11.9	1.4	<1.0	7.4	7.4	1.2	13.7	4.86	0.97	39.4
June	16.4	16.3	12.6	4.4	13.2	1.8	<1.0	7.7	7.7	1.5	21.9	4.66	1.24	113.2
July	12.8	12.7	12.7	2.9	16.2	1.6	<1.0	2.3	2.2	0.8	19.3	4.71	1.09	68.9
Aug	15.2	15.2	43.0	1.5	21.6	1.3	<1.0	5.3	5.2	1.5	41.8	4.38	2.13	58.3
Sept	16.3	16.2	11.7	5.3	14.1	1.9	1.2	5.9	5.9	1.2	17.3	4.76	1.14	66.7
Oct	41.4	41.0	28.8	10.9	40.3	7.5	3.9	16.4	16.3	3.9	42.4	4.37	2.67	4.3
Nov	24.1	23.9	22.6	4.0	27.0	4.1	2.9	17.8	17.7	3.3	9.4	5.03	1.31	6.5
Dec	26.7	26.4	52.5	5.9	16.9	5.2	2.3	30.7	30.6	6.3	9.1	5.04	1.72	6.4
Annual	17.1	17.0	20.4	4.3	15.6	2.6	1.3	9.0	9.0	1.9	21.6	4.67	1.38	408.0
Max.	120	118	165	34.4	133	43.0	22.0	135	134	23.8	135	6.60	6.47	
Min.	6.8	6.6	4.0	<1.0	<1.0	<1.0	<1.0	0.2	0.2	0.4	0.3	3.87	0.57	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.15	0.15	0.39	0.05	0.04	0.06	0.04	0.14	0.14	0.03	0.25
Feb	0.33	0.32	0.62	0.08	0.07	0.09	0.02	0.42	0.42	0.06	0.11
Mar	0.25	0.24	0.40	0.09	0.08	0.11	0.03	0.30	0.30	0.05	0.09
Apr	0.45	0.44	0.39	0.09	0.42	0.13	0.08	0.41	0.41	0.10	0.13
May	0.60	0.59	0.35	0.20	0.47	0.06	0.03	0.29	0.29	0.05	0.54
June	1.86	1.84	1.42	0.49	1.50	0.20	0.11	0.88	0.87	0.17	2.48
July	0.88	0.87	0.88	0.20	1.11	0.11	0.04	0.16	0.15	0.06	1.33
Aug	0.89	0.88	2.51	0.09	1.26	0.08	0.05	0.31	0.30	0.09	2.44
Sept	1.09	1.08	0.78	0.35	0.94	0.13	0.08	0.39	0.39	0.08	1.16
Oct	0.18	0.18	0.12	0.05	0.17	0.03	0.02	0.07	0.07	0.02	0.18
Nov	0.16	0.15	0.15	0.03	0.17	0.03	0.02	0.12	0.11	0.02	0.06
Dec	0.17	0.17	0.34	0.04	0.11	0.03	0.01	0.20	0.20	0.04	0.06
Annual	6.99	6.93	8.33	1.75	6.35	1.05	0.52	3.68	3.66	0.76	8.82

Data completeness (Monthly)

2007	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	83
July	100	100	100	100	100	100	100	100	100	100	100	100	100	90
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	94
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	93
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	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 3.45 Monthly results

Site: Itkutsk

Country: Russia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	55.9	55.0	33.4	16.0	33.7	15.5	8.4	74.0	73.7	15.2	0.4	6.37	3.08	14.0
Feb	38.7	36.8	32.6	30.9	35.1	31.7	4.8	50.8	50.1	8.6	0.8	6.10	2.44	16.2
Mar	130	122	56.0	126	51.9	128	12.3	153	150	24.6	0.3	6.48	6.89	9.7
Apr	56.2	53.7	33.1	51.8	54.6	41.3	6.3	88.8	87.9	10.8	0.4	6.44	3.65	11.9
May	24.6	24.3	10.0	8.2	25.2	4.6	10.9	19.9	19.8	5.5	12.1	4.92	1.59	68.6
June	24.9	24.7	12.3	3.7	21.5	2.8	9.1	12.5	12.5	3.1	13.0	4.89	1.42	108.9
July	32.7	32.6	21.5	7.1	47.8	2.8	2.8	12.4	12.4	4.0	19.2	4.72	2.02	107.8
Aug	23.0	22.9	14.9	5.4	27.4	2.8	3.4	11.1	11.0	2.6	15.3	4.82	1.54	30.0
Sept	35.6	35.2	11.7	10.5	30.9	6.8	13.9	20.7	20.6	6.8	11.4	4.94	1.95	66.0
Oct	45.4	44.1	26.1	26.3	57.8	21.2	7.2	53.7	53.2	13.2	0.6	6.25	2.71	19.1
Nov	29.0	27.8	27.2	27.5	31.4	19.6	4.4	51.9	51.4	12.9	0.5	6.33	2.29	20.1
Dec	58.8	57.7	44.4	30.2	38.5	19.2	6.4	93.7	93.3	17.2	0.3	6.56	3.90	5.8
Annual	33.6	33.0	18.3	13.2	33.9	9.9	7.8	26.5	26.3	6.3	11.7	4.93	2.02	477.9
Max.	489	486	163	489	267	365	567	324	323	148	77.6	7.30	18.3	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	<0.1	4.11	0.55	

Wet deposition (Monthly)

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

2007	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	0.77	0.47	0.22	0.47	0.22	0.12	1.04	1.03	0.21	<0.01
Feb	0.63	0.60	0.53	0.50	0.57	0.51	0.08	0.82	0.81	0.14	0.01
Mar	1.26	1.19	0.54	1.23	0.50	1.24	0.12	1.48	1.46	0.24	<0.01
Apr	0.67	0.64	0.39	0.62	0.65	0.49	0.07	1.06	1.05	0.13	<0.01
May	1.69	1.67	0.69	0.57	1.73	0.31	0.74	1.37	1.36	0.38	0.83
June	2.71	2.69	1.33	0.40	2.35	0.30	1.00	1.36	1.36	0.33	1.41
July	3.53	3.51	2.32	0.77	5.16	0.30	0.30	1.34	1.33	0.44	2.07
Aug	0.69	0.69	0.45	0.16	0.82	0.08	0.10	0.33	0.33	0.08	0.46
Sept	2.35	2.32	0.77	0.69	2.04	0.45	0.92	1.37	1.36	0.45	0.75
Oct	0.86	0.84	0.50	0.50	1.10	0.40	0.14	1.02	1.01	0.25	0.01
Nov	0.58	0.56	0.55	0.55	0.63	0.39	0.09	1.04	1.03	0.26	<0.01
Dec	0.34	0.34	0.26	0.18	0.22	0.11	0.04	0.54	0.54	0.10	<0.01
Annual	16.0	15.8	8.76	6.30	16.2	4.75	3.72	12.7	12.6	3.00	5.59

Data completeness (Monthly)

2007	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	83	83	83	83	83	83	83	83	83	83	83	83	83	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: Primorskaya

Country: Russia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	66.4	61.7	44.5	44.6	29.5	78.5	21.3	56.1	54.4	11.6	0.9	6.04	3.26	27.3
Feb	35.8	31.7	38.2	60.1	27.7	68.1	8.6	28.8	27.3	9.9	5.3	5.28	2.60	60.5
Mar	46.6	45.5	31.9	18.7	55.8	17.1	4.1	17.4	17.0	3.8	37.3	4.43	3.17	95.1
Apr	67.5	65.9	56.4	27.9	52.0	26.7	4.8	37.9	37.4	7.6	35.6	4.45	3.98	31.8
May	26.7	25.7	18.4	10.9	25.4	16.0	4.6	19.2	18.9	4.1	7.4	5.13	1.57	127.0
June	48.1	47.2	29.7	24.5	64.3	16.0	18.5	18.2	17.8	6.6	14.0	4.85	2.83	68.7
July	57.6	55.5	19.3	20.7	41.0	34.9	13.7	9.0	8.3	9.2	25.4	4.59	2.90	85.4
Aug	17.8	17.2	12.7	16.9	17.5	11.5	1.2	4.6	4.4	2.2	19.4	4.71	1.49	67.5
Sept	9.3	9.0	4.4	7.4	10.3	6.3	1.3	2.1	1.9	0.5	8.4	5.08	0.72	195.1
Oct	23.7	23.0	9.2	15.2	23.1	11.5	4.8	9.9	9.7	2.8	11.8	4.93	1.41	185.4
Nov	27.7	26.6	47.3	20.6	41.0	17.5	7.4	33.2	32.8	7.8	1.4	5.85	2.03	5.9
Dec	17.8	17.0	20.9	12.2	24.1	13.6	4.5	12.2	11.9	4.2	3.6	5.44	1.12	39.1
Annual	30.8	29.6	19.1	18.6	29.6	19.8	6.2	14.0	13.5	4.3	14.5	4.84	1.90	988.8
Max.	232	229	252	458	333	417	97.1	248	245	58.4	219	7.15	13.9	
Min.	1.5	1.3	<1.0	1.1	1.1	<1.0	<1.0	0.4	0.4	<0.4	<0.1	3.66	0.16	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	1.81	1.68	1.22	1.22	0.81	2.14	0.58	1.53	1.49	0.32	0.02
Feb	2.17	1.92	2.31	3.64	1.68	4.12	0.52	1.74	1.65	0.60	0.32
Mar	4.43	4.33	3.04	1.78	5.30	1.63	0.39	1.66	1.62	0.36	3.55
Apr	2.15	2.09	1.79	0.89	1.65	0.85	0.15	1.21	1.19	0.24	1.13
May	3.39	3.27	2.34	1.39	3.22	2.03	0.58	2.44	2.40	0.52	0.94
June	3.31	3.24	2.04	1.68	4.42	1.10	1.27	1.25	1.23	0.45	0.96
July	4.92	4.74	1.65	1.77	3.50	2.98	1.17	0.77	0.71	0.79	2.17
Aug	1.20	1.16	0.85	1.14	1.18	0.78	0.08	0.31	0.30	0.15	1.31
Sept	1.82	1.75	0.87	1.44	2.01	1.23	0.25	0.40	0.37	0.10	1.64
Oct	4.39	4.26	1.71	2.82	4.29	2.13	0.90	1.84	1.79	0.52	2.18
Nov	0.16	0.16	0.28	0.12	0.24	0.10	0.04	0.20	0.19	0.05	<0.01
Dec	0.70	0.66	0.82	0.48	0.94	0.53	0.18	0.48	0.47	0.16	0.14
Annual	30.4	29.2	18.9	18.3	29.2	19.6	6.11	13.8	13.4	4.25	14.4

Data completeness (Monthly)

2007	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	100	100	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	99	99	99	99	99	99	99	99	99	99	100	100	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	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 3.47 Monthly results

Site: Bangkok

Country: Thailand

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	64.3	62.0	114	44.9	157	38.7	6.6	35.4	34.6	6.6	60.3	4.22	6.32	9.0
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Mar	44.7	41.0	63.6	36.8	82.1	62.1	6.4	37.2	35.9	7.0	37.0	4.43	3.67	26.1
Apr	23.9	23.4	58.4	10.9	84.8	8.7	2.5	27.2	27.0	3.0	8.5	5.07	2.36	148.1
May	18.5	18.0	20.9	8.8	61.1	8.2	1.3	15.8	15.6	2.1	2.4	5.61	1.23	269.9
June	13.5	13.2	25.5	5.4	50.2	5.6	1.0	12.2	12.1	1.7	9.5	5.02	1.17	174.2
July	18.5	18.2	33.6	5.3	54.5	6.1	2.3	14.2	14.1	1.2	19.8	4.70	2.00	275.6
Aug	12.4	12.1	21.3	6.8	68.1	6.5	1.6	16.7	16.5	2.2	1.9	5.72	1.20	163.6
Sept	14.2	13.9	18.9	11.4	49.0	5.1	<1.0	4.4	4.3	0.6	3.4	5.47	0.62	311.7
Oct	14.9	14.8	20.3	2.8	42.3	1.8	<1.0	8.9	8.9	1.0	11.0	4.96	1.19	200.6
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	17.2	16.8	28.0	8.2	57.8	7.1	1.6	13.6	13.5	1.7	9.0	5.05	1.41	1578.8
Max.	118	110	179	173	162	135	9.0	155	154	23.4	61.7	7.28	7.13	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.7	0.7	0.4	<0.1	4.21	0.07	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.58	0.56	1.02	0.40	1.42	0.35	0.06	0.32	0.31	0.06	0.54
Feb	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar	1.17	1.07	1.66	0.96	2.14	1.62	0.17	0.97	0.94	0.18	0.96
Apr	3.54	3.47	8.64	1.61	12.6	1.29	0.37	4.02	4.00	0.45	1.26
May	4.99	4.85	5.64	2.38	16.5	2.21	0.35	4.27	4.22	0.57	0.66
June	2.36	2.30	4.43	0.95	8.74	0.98	0.18	2.13	2.11	0.29	1.65
July	5.11	5.01	9.26	1.46	15.0	1.69	0.62	3.92	3.88	0.33	5.47
Aug	2.04	1.97	3.49	1.11	11.1	1.06	0.26	2.73	2.71	0.36	0.31
Sept	4.43	4.34	5.89	3.54	15.3	1.60	0.28	1.36	1.33	0.19	1.05
Oct	2.99	2.97	4.07	0.56	8.49	0.37	0.18	1.79	1.78	0.21	2.21
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	27.2	26.5	44.1	13.0	91.3	11.2	2.48	21.5	21.3	2.65	14.1

Data completeness (Monthly)

2007	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
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	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	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
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 3.48 Monthly results

Site: Samutprakarn

Country: Thailand

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	*	*	*	*	*	*	*	*	*	*	*	*	*	1.8
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Mar	54.9	49.1	35.2	59.8	308	94.8	30.9	21.7	19.7	10.3	0.1	6.95	6.14	34.3
Apr	15.6	15.1	35.4	10.3	67.9	9.2	2.9	13.7	13.5	2.7	2.3	5.64	1.61	191.7
May	21.2	20.4	25.6	15.5	55.5	14.5	3.2	15.1	14.8	3.9	2.8	5.55	1.65	229.9
June	12.7	12.0	9.8	10.7	32.0	11.2	2.2	7.3	7.0	2.4	2.2	5.66	0.90	360.0
July	13.2	12.6	17.4	8.3	28.6	9.0	1.5	10.3	10.1	1.8	1.8	5.75	1.28	334.6
Aug	17.2	16.3	9.7	14.9	47.3	15.6	3.1	15.5	15.2	3.5	0.6	6.23	1.38	142.9
Sept	6.6	6.3	3.8	3.9	34.1	4.7	1.3	7.7	7.6	1.7	1.7	5.77	0.76	239.3
Oct	*	*	*	*	*	*	*	*	*	*	5.1	5.29	1.49	301.4
Nov	*	*	*	*	*	*	*	*	*	*	0.3	6.59	1.08	35.0
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	14.8	14.1	16.6	11.2	47.1	12.2	2.9	11.0	10.7	2.7	2.5	5.61	1.34	1870.9
Max.	72.0	66.5	81.4	104	308	98.3	30.9	77.1	75.1	22.2	9.5	7.34	6.91	
Min.	<1.0	<1.0	<1.0	<1.0	5.0	1.3	<1.0	2.7	2.7	<0.4	<0.1	5.02	0.43	

Wet deposition (Monthly)

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

2007	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	1.88	1.69	1.21	2.05	10.6	3.25	1.06	0.74	0.67	0.35	<0.01
Apr	3.00	2.89	6.78	1.97	13.0	1.75	0.55	2.62	2.58	0.52	0.44
May	4.88	4.68	5.89	3.56	12.8	3.33	0.73	3.47	3.40	0.90	0.65
June	4.57	4.33	3.51	3.85	11.5	4.02	0.80	2.62	2.53	0.85	0.79
July	4.41	4.22	5.82	2.77	9.57	3.00	0.50	3.45	3.38	0.61	0.59
Aug	2.46	2.33	1.38	2.13	6.76	2.24	0.45	2.22	2.17	0.50	0.08
Sept	1.58	1.51	0.92	0.92	8.17	1.12	0.31	1.85	1.83	0.40	0.41
Oct	*	*	*	*	*	*	*	*	*	*	1.55
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	27.7	26.3	31.0	21.0	88.1	22.8	5.38	20.5	20.0	5.03	4.60

Data completeness (Monthly)

2007	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	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	90	90	90	90	90	90	90	90	90	90	90	90	90	100
May	100	100	100	100	100	100	100	100	100	100	92	92	92	100
June	99	99	99	99	99	99	99	99	99	99	99	99	99	100
July	97	97	97	97	97	97	97	97	97	97	97	97	97	100
Aug	78	78	78	78	78	78	78	78	78	78	78	78	78	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	0	0	0	0	0	0	0	0	0	0	99	99	99	100
Nov	0	0	0	0	0	0	0	0	0	0	93	93	93	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Annual	79	79	79	79	79	79	79	79	79	79	95	95	95	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: Patumthani

Country: Thailand

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	41.3	39.5	119	42.2	131	30.0	20.3	20.8	20.2	5.2	63.1	4.20	5.83	3.0
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Mar	49.5	46.7	103	56.4	126	46.4	10.8	56.6	55.6	11.8	9.3	5.03	4.19	1.2
Apr	19.0	18.5	40.0	14.0	61.5	8.0	4.2	10.6	10.4	1.9	33.3	4.48	2.96	216.7
May	13.1	12.7	20.7	6.5	33.5	7.2	1.1	8.5	8.4	1.6	12.0	4.92	1.33	236.4
June	10.5	10.0	24.1	5.9	34.6	6.8	1.1	10.1	9.9	1.4	10.1	4.99	1.28	157.9
July	13.9	13.5	32.2	6.9	34.9	7.1	1.4	11.7	11.5	1.3	25.3	4.60	1.88	182.9
Aug	11.8	11.5	24.0	6.3	30.9	5.3	1.1	8.6	8.5	1.3	16.9	4.77	1.51	114.0
Sept	7.3	7.1	10.3	3.0	20.5	2.9	<1.0	5.8	5.7	0.7	5.5	5.26	0.76	353.1
Oct	9.4	9.2	12.3	3.2	24.1	3.1	1.1	5.0	5.0	0.7	11.1	4.96	0.95	104.3
Nov	10.9	10.6	9.1	8.3	53.7	5.8	1.6	5.5	5.4	1.3	1.3	5.88	0.99	11.1
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	12.0	11.7	22.8	6.6	34.4	5.8	1.6	8.5	8.4	1.3	15.6	4.81	1.50	1380.7
Max.	91.5	86.3	230	97.8	221	86.5	20.3	149	147	24.6	120	8.92	8.07	
Min.	1.6	1.4	1.6	<1.0	5.0	<1.0	<1.0	0.4	0.4	<0.4	<0.1	3.92	0.28	

Wet deposition (Monthly)

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

2007	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	0.36	0.13	0.39	0.09	0.06	0.06	0.06	0.02	0.19
Feb	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar	0.06	0.06	0.12	0.07	0.15	0.06	0.01	0.07	0.07	0.01	0.01
Apr	4.11	4.00	8.67	3.03	13.3	1.74	0.92	2.29	2.26	0.41	7.22
May	3.10	3.00	4.89	1.55	7.92	1.70	0.26	2.02	1.98	0.37	2.83
June	1.65	1.59	3.81	0.92	5.46	1.07	0.18	1.59	1.56	0.22	1.60
July	2.55	2.47	5.90	1.27	6.39	1.30	0.26	2.13	2.10	0.24	4.64
Aug	1.34	1.31	2.73	0.72	3.52	0.61	0.13	0.98	0.97	0.15	1.93
Sept	2.56	2.50	3.64	1.06	7.25	1.03	0.28	2.03	2.01	0.24	1.95
Oct	0.98	0.96	1.28	0.33	2.52	0.32	0.11	0.52	0.52	0.08	1.15
Nov	0.12	0.12	0.10	0.09	0.60	0.06	0.02	0.06	0.06	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	16.6	16.1	31.4	9.17	47.5	7.97	2.23	11.7	11.6	1.77	21.5

Data completeness (Monthly)

2007	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
Mar	100	100	100	100	100	100	100	100	100	100	92	92	92	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	97	97	97	97	97	97	97	97	97	97	97	97	97	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 3.50 Monthly results

Site: Khanchanaburi

Country: Thailand

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	*	*	*	*	*	*	*	*	*	*	*	*	*	44.4
Apr	*	*	*	*	*	*	*	*	*	*	*	*	*	48.9
May	3.5	3.2	6.2	5.9	12.8	5.8	1.1	3.2	3.0	1.1	1.6	5.80	0.35	256.9
June	1.9	1.5	2.7	7.4	5.1	6.1	<1.0	1.6	1.5	0.9	1.8	5.75	0.21	229.4
July	2.8	2.5	3.0	6.4	9.2	6.4	<1.0	4.7	4.6	1.0	1.6	5.80	0.33	326.9
Aug	3.4	2.5	2.5	12.5	27.7	14.7	<1.0	4.6	4.3	1.7	1.6	5.80	0.42	344.7
Sept	1.4	1.2	1.5	3.2	5.2	3.5	<1.0	1.8	1.7	0.6	1.4	5.86	0.18	230.6
Oct	<1.0	<1.0	1.1	2.5	23.0	3.8	<1.0	0.9	0.8	0.5	2.2	5.66	0.20	222.4
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	2.5	2.0	2.9	6.6	13.9	7.0	<1.0	3.0	2.9	1.0	1.7	5.78	0.29	1704.2
Max.	21.5	18.0	17.4	120	57.1	106	3.8	27.9	25.7	14.0	7.2	6.54	2.66	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.2	<0.2	0.4	0.3	5.14	0.07	

Wet deposition (Monthly)

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

2007	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	*	*	*	*	*	*	*	*	*	*	*
Apr	*	*	*	*	*	*	*	*	*	*	*
May	0.90	0.81	1.59	1.51	3.28	1.50	0.27	0.81	0.78	0.27	0.40
June	0.43	0.34	0.62	1.69	1.18	1.39	0.11	0.38	0.35	0.20	0.41
July	0.93	0.80	0.99	2.10	3.00	2.09	0.18	1.54	1.50	0.33	0.52
Aug	1.18	0.88	0.86	4.32	9.55	5.06	0.27	1.59	1.48	0.59	0.55
Sept	0.33	0.28	0.34	0.74	1.21	0.81	0.20	0.41	0.40	0.13	0.32
Oct	0.22	0.16	0.24	0.55	5.11	0.85	0.10	0.19	0.17	0.10	0.48
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	4.20	3.48	5.01	11.3	23.7	12.0	1.21	5.16	4.90	1.70	2.83

Data completeness (Monthly)

2007	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	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Apr	0	0	0	0	0	0	0	0	0	0	0	0	0	100
May	97	97	97	97	97	97	97	97	97	97	97	97	97	100
June	94	94	94	94	94	94	94	94	94	94	94	94	94	100
July	95	95	95	95	95	95	95	95	95	95	95	95	95	100
Aug	79	79	79	79	79	79	79	79	79	79	79	79	79	100
Sept	93	93	93	93	93	93	93	93	93	93	93	93	93	100
Oct	85	85	85	85	85	85	85	85	85	85	85	85	85	100
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Annual	85	85	85	85	85	85	85	85	85	85	85	85	85	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: Chiang Mai (Mae Hia)

Country: Thailand

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	9.1	8.9	25.6	7.0	84.1	2.7	4.8	10.2	10.1	3.1	9.2	5.03	2.16	44.6
May	6.2	6.0	8.6	6.8	15.6	2.9	2.2	7.6	7.6	1.9	0.8	6.12	0.57	273.8
June	3.4	3.3	5.4	7.1	14.6	<1.0	3.3	5.6	5.6	<0.4	1.3	5.90	0.49	112.8
July	4.5	4.3	4.5	6.7	13.7	3.6	7.6	10.1	10.0	2.0	0.4	6.38	0.46	77.8
Aug	3.4	3.2	6.2	6.4	16.7	2.7	1.2	10.7	10.6	0.5	0.4	6.42	0.43	134.1
Sept	7.0	6.6	6.5	4.1	12.9	5.1	2.3	8.5	8.4	0.9	0.5	6.33	0.57	158.5
Oct	8.9	8.7	6.8	3.0	15.1	2.6	2.7	6.4	6.3	<0.4	0.5	6.29	0.63	81.2
Nov	9.6	9.5	11.0	4.2	26.1	1.8	2.9	5.0	5.0	1.1	1.7	5.77	0.89	54.7
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	6.0	5.8	8.0	5.8	18.8	2.9	2.9	8.0	8.0	1.2	1.1	5.95	0.63	937.5
Max.	128	127	86.4	116	291	30.8	33.8	71.5	71.2	19.4	63.1	6.95	6.29	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.1	4.20	0.20	

Wet deposition (Monthly)

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

2007	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	0.40	0.40	1.14	0.31	3.75	0.12	0.22	0.45	0.45	0.14	0.41
May	1.68	1.64	2.36	1.87	4.26	0.80	0.61	2.09	2.07	0.53	0.21
June	0.38	0.38	0.60	0.80	1.65	0.08	0.38	0.63	0.63	0.03	0.14
July	0.35	0.33	0.35	0.52	1.06	0.28	0.59	0.78	0.78	0.16	0.03
Aug	0.45	0.43	0.83	0.85	2.24	0.36	0.16	1.43	1.42	0.07	0.05
Sept	1.10	1.05	1.03	0.65	2.04	0.80	0.36	1.35	1.34	0.15	0.07
Oct	0.72	0.71	0.55	0.24	1.23	0.21	0.22	0.52	0.51	0.03	0.04
Nov	0.52	0.52	0.60	0.23	1.42	0.10	0.16	0.28	0.27	0.06	0.09
Dec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	5.62	5.46	7.47	5.48	17.7	2.75	2.69	7.53	7.47	1.16	1.05

Data completeness (Monthly)

2007	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	99	99	99	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 3.52 Monthly results

Site: Nakhon Ratchasima

Country: Thailand

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	36.3	34.8	56.8	19.4	84.2	25.2	48.1	18.1	17.6	10.1	35.5	4.45	3.83	12.2
Mar	11.7	10.8	25.9	10.5	33.4	13.9	4.2	8.8	8.5	4.4	15.5	4.81	1.39	77.3
Apr	9.0	8.5	27.4	6.4	39.6	8.8	3.0	8.0	7.8	4.2	13.1	4.88	1.46	63.1
May	5.7	5.5	8.7	3.9	18.5	3.5	<1.0	2.0	2.0	1.5	10.0	5.00	0.82	294.6
June	2.8	2.6	5.7	5.0	9.1	3.6	<1.0	3.7	3.7	2.6	2.9	5.54	0.39	130.2
July	6.3	5.8	13.0	8.3	14.5	7.2	<1.0	11.5	11.4	2.5	3.9	5.41	0.81	66.8
Aug	3.1	2.9	7.1	3.8	9.9	2.7	<1.0	3.2	3.2	1.0	5.5	5.26	0.48	129.1
Sept	4.2	4.1	8.7	3.5	21.5	1.2	<1.0	3.0	3.0	0.7	4.8	5.32	0.58	236.1
Oct	7.9	7.7	11.5	5.2	11.3	4.3	1.0	2.2	2.1	1.4	10.3	4.99	0.76	315.6
Nov	10.2	10.0	8.6	5.1	27.4	4.1	<1.0	2.1	2.0	0.7	6.1	5.21	0.76	60.8
Dec	23.5	22.2	20.6	35.0	113	22.6	8.4	18.2	17.7	6.6	*	*	*	0.5
Annual	6.4	6.2	11.4	5.1	18.3	4.5	1.4	3.7	3.7	1.8	8.3	5.08	0.78	1386.3
Max.	199	192	1160	79.8	205	114	58.6	56.4	55.8	35.8	97.7	6.82	6.54	
Min.	<1.0	<1.0	2.1	1.4	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.2	4.01	0.23	

Wet deposition (Monthly)

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

2007	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	0.44	0.42	0.69	0.24	1.03	0.31	0.59	0.22	0.21	0.12	0.43
Mar	0.90	0.84	2.01	0.81	2.58	1.07	0.32	0.68	0.65	0.34	1.20
Apr	0.57	0.54	1.73	0.40	2.50	0.56	0.19	0.50	0.49	0.26	0.83
May	1.68	1.62	2.55	1.16	5.44	1.04	0.18	0.60	0.58	0.44	2.94
June	0.37	0.34	0.74	0.65	1.19	0.46	0.03	0.49	0.48	0.34	0.38
July	0.42	0.39	0.87	0.55	0.97	0.48	0.05	0.77	0.76	0.17	0.26
Aug	0.40	0.38	0.91	0.49	1.27	0.35	0.10	0.42	0.41	0.13	0.70
Sept	0.99	0.98	2.06	0.83	5.07	0.27	0.06	0.71	0.70	0.16	1.14
Oct	2.50	2.43	3.63	1.63	3.56	1.36	0.33	0.68	0.66	0.45	3.26
Nov	0.62	0.61	0.52	0.31	1.66	0.25	0.04	0.13	0.12	0.04	0.37
Dec	0.01	0.01	0.01	0.02	0.06	0.01	<0.01	<0.01	<0.01	<0.01	*
Annual	8.93	8.56	15.7	7.08	25.4	6.17	1.91	5.20	5.07	2.47	11.5

Data completeness (Monthly)

2007	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	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	99	99	99	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	98	98	98	98	98	98	98	98	98	98	97	97	97	100
July	98	98	98	98	98	98	98	98	98	98	98	98	98	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	99	99	99	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	0	0	0	100
Annual	100	100	100	100	100	100	100	100	100	100	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 3.53 Monthly results

Site: Hanoi

Country: Viet Nam

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	*	*	*	*	*	*	*	*	*	*	*	*	*	3.0
Feb	*	*	*	*	*	*	*	*	*	*	*	*	*	4.5
Mar	152	149	96.5	69.1	301	64.2	11.0	47.3	46.0	16.8	0.4	6.41	7.13	49.9
Apr	39.5	39.0	25.7	11.4	60.7	7.7	3.6	17.3	17.1	3.9	5.6	5.25	1.89	97.5
May	35.4	35.0	18.5	8.4	59.0	6.8	2.1	16.4	16.3	3.7	2.9	5.54	1.64	125.0
June	20.9	20.7	9.4	6.5	29.7	2.9	1.9	14.5	14.5	2.5	1.7	5.76	1.04	204.0
July	28.5	28.0	7.5	13.2	34.5	8.6	2.1	22.8	22.6	3.2	0.4	6.38	1.35	286.2
Aug	34.4	34.1	14.9	9.8	47.1	4.4	2.2	19.1	19.0	4.0	1.5	5.81	1.51	359.4
Sept	26.7	26.3	10.7	9.0	30.3	6.8	2.7	15.0	14.8	4.6	3.0	5.53	1.24	359.1
Oct	21.5	21.2	8.1	9.6	25.2	6.4	2.6	9.2	9.1	2.2	9.1	5.04	1.16	137.8
Nov	71.7	70.2	55.6	20.3	136	24.3	5.5	22.4	21.9	11.1	1.0	5.99	3.25	28.1
Dec	71.5	70.1	32.3	21.2	109	23.2	3.9	29.4	28.9	9.0	0.9	6.03	3.09	4.8
Annual	33.6	33.1	15.6	11.8	48.3	8.2	2.7	18.1	17.9	4.2	2.6	5.58	1.57	1659.3
Max.	275	270	147	85.0	458	81.3	12.9	86.5	84.8	39.0	17.0	6.83	11.5	
Min.	13.2	12.9	4.9	3.5	13.8	1.2	1.0	6.2	6.1	1.4	0.1	4.77	0.79	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	*	*	*	*	*	*	*	*	*	*	*
Feb	*	*	*	*	*	*	*	*	*	*	*
Mar	7.61	7.41	4.81	3.45	15.0	3.20	0.55	2.36	2.29	0.84	0.02
Apr	3.85	3.81	2.50	1.11	5.91	0.75	0.36	1.69	1.67	0.38	0.55
May	4.43	4.38	2.32	1.04	7.37	0.85	0.26	2.05	2.03	0.47	0.36
June	4.26	4.22	1.91	1.32	6.07	0.59	0.39	2.97	2.95	0.52	0.35
July	8.16	8.01	2.13	3.78	9.88	2.46	0.61	6.53	6.47	0.93	0.12
Aug	12.4	12.3	5.37	3.51	16.9	1.59	0.79	6.86	6.82	1.43	0.55
Sept	9.60	9.45	3.84	3.22	10.9	2.45	0.98	5.37	5.32	1.67	1.07
Oct	2.97	2.92	1.12	1.32	3.47	0.89	0.35	1.27	1.25	0.31	1.25
Nov	2.01	1.97	1.56	0.57	3.83	0.68	0.15	0.63	0.62	0.31	0.03
Dec	0.34	0.34	0.16	0.10	0.52	0.11	0.02	0.14	0.14	0.04	<0.01
Annual	55.8	55.0	25.8	19.5	80.1	13.6	4.48	30.0	29.7	6.91	4.32

Data completeness (Monthly)

2007	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	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	99	99	99	99	99	99	99	99	99	99	99	99	99	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	75	75	75	75	75	75	75	75	75	75	75	75	75	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 3.54 Monthly results

Site: Hoa Binh

Country: Viet Nam

Volume-weighted mean concentrations/ Precipitation (Monthly)

2007	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	*	*	*	*	*	*	*	*	*	*	*	*	*	2.8
Feb	*	*	*	*	*	*	*	*	*	*	*	*	*	0.8
Mar	29.4	28.9	29.3	14.0	64.1	9.2	6.0	12.1	11.9	3.2	1.2	5.93	1.65	60.4
Apr	30.3	30.1	24.1	8.5	43.6	4.5	4.7	17.9	17.8	4.1	4.9	5.31	1.54	102.4
May	14.4	14.3	11.1	4.1	22.5	1.6	2.4	15.1	15.1	2.3	1.8	5.73	0.88	164.6
June	11.5	11.4	7.6	4.2	12.7	2.8	2.6	9.1	9.0	2.8	1.9	5.73	0.65	314.8
July	9.7	9.6	6.3	3.8	12.7	<1.0	<1.0	7.5	7.4	2.9	1.1	5.97	0.56	253.1
Aug	15.9	15.7	12.0	6.2	20.7	3.0	3.1	15.4	15.3	5.7	0.6	6.24	0.91	259.1
Sept	16.7	16.6	9.1	4.8	18.8	<1.0	1.5	8.1	8.1	2.6	7.0	5.15	0.91	327.3
Oct	21.5	21.1	9.1	9.8	21.7	6.2	1.7	3.5	3.4	1.0	28.3	4.55	1.76	441.3
Nov	30.4	30.4	12.1	3.8	52.2	1.0	2.9	8.9	8.9	1.0	7.4	5.13	1.44	19.6
Dec	66.6	66.0	30.9	14.6	87.1	11.0	6.1	21.0	20.8	2.8	37.2	4.43	3.76	2.4
Annual	17.0	16.8	10.5	6.3	21.3	3.2	2.2	9.3	9.3	2.8	8.7	5.06	1.08	1948.6
Max.	195	193	146	28.6	206	29.1	23.9	147	147	34.5	81.3	6.94	8.66	
Min.	7.2	7.1	3.5	2.3	8.3	<1.0	<1.0	1.5	1.3	0.9	0.1	4.09	0.48	

Wet deposition (Monthly)

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

2007	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	*	*	*	*	*	*	*	*	*	*	*
Feb	*	*	*	*	*	*	*	*	*	*	*
Mar	1.78	1.74	1.77	0.84	3.87	0.56	0.36	0.73	0.72	0.19	0.07
Apr	3.11	3.08	2.47	0.87	4.46	0.46	0.49	1.83	1.82	0.42	0.51
May	2.36	2.35	1.83	0.67	3.70	0.26	0.39	2.48	2.48	0.38	0.30
June	3.63	3.57	2.41	1.33	4.00	0.88	0.82	2.86	2.84	0.88	0.59
July	2.45	2.44	1.60	0.95	3.22	0.19	0.19	1.89	1.88	0.73	0.27
Aug	4.13	4.08	3.11	1.62	5.36	0.79	0.80	3.98	3.96	1.47	0.15
Sept	5.46	5.44	2.97	1.57	6.14	0.32	0.51	2.65	2.65	0.84	2.30
Oct	9.49	9.33	4.02	4.32	9.60	2.74	0.75	1.56	1.50	0.44	12.5
Nov	0.60	0.60	0.24	0.07	1.02	0.02	0.06	0.17	0.17	0.02	0.15
Dec	0.16	0.16	0.07	0.04	0.21	0.03	0.01	0.05	0.05	<0.01	0.09
Annual	33.1	32.7	20.4	12.3	41.4	6.23	4.36	18.2	18.0	5.38	17.0

Data completeness (Monthly)

2007	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	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Mar	97	97	97	97	97	97	97	97	97	97	97	97	97	100
Apr	94	94	94	94	94	94	94	94	94	94	94	94	94	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	88	88	88	88	88	88	88	88	88	88	88	88	88	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 3.55 Annual precipitation and volume-weighted mean concentrations in 2007

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		mS/m
Cambodia	Phnom Penh	KH 11052	1373.9	22.5	22.0	8.3	12.6	19.7	8.2	3.6	19.2	19.1	3.3	0.2	6.69	1.37
China	Guanyinqiao	CN 11001	1298.6	130	130	48.8	13.8	140	5.9	8.8	75.2	75.1	8.0	22.6	4.65	5.01
	Jinyunshan	CN 11003	1644.7	90.4	90.0	31.5	8.7	75	6.2	6.8	55.1	55.0	2.8	30.0	4.52	3.76
	Shizhan	CN 11004	527.3	183	182	75.9	39.9	206	15.6	19.3	116	116	21.4	3.0	5.52	7.21
	Jiwozi	CN 11007	100.0	182	177	66.8	44.1	11.2	85.8	28.0	347	345	48.8	0.1	6.85	10.3
	Hongwen	CN 11008	1346.8	75.5	74.0	37.6	39.0	38.5	24.1	3.7	54.9	54.4	6.2	16.2	4.79	2.68
	Xiaoping	CN 11009	1044.0	28.0	27.2	26.2	14.6	52.7	12.4	7.3	16.7	16.4	2.1	25.4	4.60	2.01
	Xiang Zhou	CN 11010	1441.5	21.7	20.5	16.6	30.9	19.4	19.4	8.3	4.7	4.3	2.4	23.3	4.63	1.99
	Zhuxian Cavern	CN 11011	***	***	***	***	***	***	***	***	***	***	***	***	***	***
Indonesia	Jakarta	ID 11012	2171.0	27.9	27.0	31.1	18.7	24.2	15.8	11.2	13.9	13.6	2.2	27.5	4.56	2.23
	Serpong	ID 11013	2014.7	30.5	29.8	30.4	14.3	44.3	11.7	2.8	7.4	7.2	2.6	25.8	4.59	2.14
	Kototabang	ID 11014	2772.4	7.0	6.5	3.6	13.8	18.2	8.6	8.4	4.7	4.5	3.8	5.3	5.27	0.82
	Bandung	ID 11015	1968.8	26.4	26.0	21.6	7.5	47.9	6.6	2.0	9.5	9.4	1.7	11.8	4.93	1.64
Japan	Rishiri	JP 11016	882.9	28.3	19.7	15.6	161	25.9	143	4.1	5.8	2.8	17.0	26.3	4.58	3.72
	Ochiishi	JP 11050	866.1	21.3	10.1	9.6	219	7.8	186	4.6	7.0	3.0	21.5	16.7	4.78	3.69
	Tappi	JP 11017	1055.3	29.6	15.7	21.6	262	17.7	234	5.7	11.0	6.0	26.4	23.8	4.62	4.92
	Sado-seki	JP 11019	1162.8	34.9	21.3	25.8	257	25.2	227	5.9	11.8	6.9	26.1	31.4	4.50	4.92
	Happo	JP 11021	2328.9	12.2	12.0	9.8	4.4	11.1	3.1	<1.0	2.9	2.8	0.7	16.2	4.79	1.08
	Ijira	JP 11022	2263.5	19.0	17.7	21.8	24.8	20.7	20.8	1.1	3.6	3.2	2.8	29.3	4.53	2.05
	Oki	JP 11023	1159.8	36.3	19.7	23.8	312	15.7	275	9.1	13.6	7.7	31.7	23.1	4.64	5.91
	Banryu	JP 11024	1273.1	27.9	23.1	29.2	89.2	22.3	78.6	3.1	7.4	5.7	9.9	32.3	4.49	3.36
	Yusuhara	JP 11025	2372.5	9.5	8.7	7.2	16.2	7.4	13.5	<1.0	2.0	1.7	1.8	15.3	4.81	1.06
	Hedo	JP 11027	2701.5	14.4	6.6	6.4	146	7.5	129	3.3	4.9	2.1	14.8	10.2	4.99	2.54
	Ogasawara	JP 11018	1566.9	12.7	4.9	4.9	154	7.7	133	3.2	4.4	1.5	15.0	9.4	5.03	2.59
	Tokyo	JP 11057	1079.6	17.1	15.0	19.5	41.1	27.7	34.5	1.4	5.0	4.2	4.2	16.3	4.79	1.80
Lao PDR	Vientiane	LA 11051	1399.0	4.7	4.5	6.9	7.4	10.9	2.4	1.7	3.0	3.0	0.7	2.2	5.67	0.40
Malaysia	Petaling Jaya	MY 11029	3020.7	13.8	13.6	26.6	5.7	19.1	3.6	<1.0	3.9	3.9	<0.4	27.6	4.56	1.40
	Tanah Rata	MY 11030	2968.1	3.5	3.4	4.2	1.7	3.9	1.5	<1.0	1.0	1.0	<0.4	11.1	4.95	0.51
	Danum Valley	MY 11053	2988.4	2.3	2.0	<1.0	4.9	1.3	4.1	1.1	0.5	0.5	0.4	8.0	5.10	0.35
Mongolia	Ulaanbaatar	MN 11031	125.8	37.1	36.8	26.0	9.4	87.1	5.2	1.3	41.2	41.1	4.7	0.5	6.26	2.18
	Terelj	MN 11032	185.2	25.0	24.5	18.3	10.3	38.8	9.4	3.8	13.6	13.4	2.1	6.0	5.22	2.02
Myanmar	Yangon	MM 11056	3981.2	***	***	***	***	***	***	***	***	***	***	2.7	5.57	0.60
Philippines	Metro Manila	PH 11033	3504.7	22.3	21.1	14.1	27.9	33.6	20.2	5.4	10.4	10.0	4.1	5.3	5.27	1.40
	Los Banos	PH 11034	3096.7	8.4	7.3	6.2	24.4	16.8	17.6	4.9	5.2	4.8	3.5	2.9	5.54	0.86
	Mt. Sto. Tomas	PH 11055	3378.8	5.7	5.4	5.5	7.4	8.7	5.7	2.3	23.4	23.3	2.1	3.0	5.53	1.03
Republic of Korea	Kanghwa	KR 11035	882.9	41.2	38.5	39.0	57.7	58.4	44.3	10.8	12.4	11.5	6.7	24.0	4.62	3.49
	Cheju (Kosan)	KR 11036	1244.4	37.9	31.8	15.1	104	28.8	101	7.2	10.6	8.4	7.3	30.7	4.51	3.43
	Imsil	KR 11037	1344.0	28.8	27.9	18.1	22.4	40.0	15.0	14.3	13.7	13.3	3.6	1.9	5.73	1.58
Russia	Mondy	RU 11038	350.6	9.3	9.1	8.5	3.9	30.1	3.1	2.5	6.9	6.8	1.8	3.0	5.52	0.80
	Listvyanka	RU 11039	408.0	17.1	17.0	20.4	4.3	15.6	2.6	1.3	9.0	9.0	1.9	21.6	4.67	1.38
	Irkutsk	RU 11040	477.9	33.6	33.0	18.3	13.2	33.9	9.9	7.8	26.5	26.3	6.3	11.7	4.93	2.02
	Primorskaya	RU 11041	988.8	30.8	29.6	19.1	18.6	29.6	19.8	6.2	14.0	13.5	4.3	14.5	4.84	1.90
Thailand	Bangkok	TH 11042	1578.8	17.2	16.8	28.0	8.2	57.8	7.1	1.6	13.6	13.5	1.7	9.0	5.05	1.41
	Samutprakarn	TH 11043	1870.9	14.8	14.1	16.6	11.2	47.1	12.2	2.9	11.0	10.7	2.7	2.5	5.61	1.34
	Patumthani	TH 11044	1380.7	12.0	11.7	22.8	6.6	34.4	5.8	1.6	8.5	8.4	1.3	15.6	4.81	1.50
	Khanchanaburi	TH 11045	1704.2	2.5	2.0	2.9	6.6	13.9	7.0	<1.0	3.0	2.9	1.0	1.7	5.78	0.29
	Chiang Mai (Mae Hia)	TH 11046	937.5	6.0	5.8	8.0	5.8	18.8	2.9	2.9	8.0	8.0	1.2	1.1	5.95	0.63
	Nakhon Ratchasima	TH 11054	1386.3	6.4	6.2	11.4	5.1	18.3	4.5	1.4	3.7	3.7	1.8	8.3	5.08	0.78
Viet Nam	Hanoi	VN 11047	1659.3	33.6	33.1	15.6	11.8	48.3	8.2	2.7	18.1	17.9	4.2	2.6	5.58	1.57
	Hoa Binh	VN 11048	1948.6	17.0	16.8	10.5	6.3	21.3	3.2	2.2	9.3	9.3	2.8	8.7	5.06	1.08

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

[***] Not measured

Table 3.56 Annual deposition in 2007

Country	Name of sites	Code	SO ₄ ²⁻ mmol m ⁻² y ⁻¹	nss-SO ₄ ²⁻ mmol m ⁻² y ⁻¹	NO ₃ ⁻ mmol m ⁻² y ⁻¹	Cl ⁻ mmol m ⁻² y ⁻¹	NH ₄ ⁺ mmol m ⁻² y ⁻¹	Na ⁺ mmol m ⁻² y ⁻¹	K ⁺ mmol m ⁻² y ⁻¹	Ca ²⁺ mmol m ⁻² y ⁻¹	nss-Ca ²⁺ mmol m ⁻² y ⁻¹	Mg ²⁺ mmol m ⁻² y ⁻¹	H ⁺ mmol m ⁻² y ⁻¹
Cambodia	Phnom Penh	KH 11052	30.9	30.2	11.3	17.4	27.0	11.3	5.00	26.4	26.2	4.49	0.28
China	Guanyinqiao	CN 11001	169	169	63.3	17.9	181	7.69	11.4	97.7	97.5	10.4	29.3
	Jinyunshan	CN 11003	149	148	51.8	14.3	124	10.2	11.1	90.7	90.4	4.61	49.4
	Shizhan	CN 11004	96.7	96.2	40.0	21.0	109	8.22	10.2	61.3	61.2	11.3	1.60
	Jiwozi	CN 11007	18.2	17.7	6.68	4.41	1.12	8.58	2.80	34.7	34.5	4.88	0.01
	Hongwen	CN 11008	102	100	50.6	52.6	51.8	32.4	5.03	74.0	73.3	8.32	21.8
	Xiaoping	CN 11009	29.2	28.4	27.3	15.2	55.0	13.0	7.63	17.4	17.1	2.16	26.5
	Xiang Zhou	CN 11010	31.2	29.5	23.9	44.5	28.0	27.9	11.9	6.78	6.25	3.43	33.7
	Zhuxian Cavern	CN 11011	***	***	***	***	***	***	***	***	***	***	***
Indonesia	Jakarta	ID 11012	60.6	58.5	67.4	40.7	52.6	34.4	24.3	30.2	29.5	4.79	59.7
	Serpong	ID 11013	61.5	60.1	61.3	28.8	89.2	23.7	5.56	14.9	14.5	5.33	52.0
	Kototabang	ID 11014	19.4	17.9	9.88	38.2	50.5	24.0	23.3	13.0	12.5	10.6	14.7
	Bandung	ID 11015	52.0	51.2	42.4	14.8	94.3	13.1	4.01	18.7	18.4	3.31	23.2
Japan	Rishiri	JP 11016	24.9	17.4	13.8	142	22.9	126	3.65	5.15	2.44	15.0	23.3
	Ochiishi	JP 11050	18.4	8.73	8.29	189	6.79	161	3.97	6.03	2.56	18.6	14.5
	Tappi	JP 11017	31.2	16.6	22.8	276	18.7	247	5.97	11.7	6.34	27.9	25.1
	Sado-seki	JP 11019	40.6	24.7	30.0	298	29.3	264	6.84	13.7	7.99	30.3	36.5
	Happo	JP 11021	28.4	28.0	22.9	10.1	25.8	7.29	1.41	6.77	6.63	1.57	37.8
	Ijira	JP 11022	43.0	40.1	49.4	56.1	46.8	47.1	2.60	8.23	7.21	6.23	66.3
	Oki	JP 11023	42.1	22.8	27.6	362	18.3	319	10.6	15.8	8.91	36.8	26.8
	Banryu	JP 11024	35.5	29.5	37.1	114	28.4	100	3.89	9.37	7.21	12.5	41.1
	Yusuhara	JP 11025	22.5	20.6	17.1	38.5	17.7	32.1	1.51	4.66	3.97	4.27	36.4
	Hedo	JP 11027	38.8	17.8	17.3	394	20.2	349	8.95	13.3	5.75	40.0	27.7
	Ogasawara	JP 11018	19.9	7.61	7.64	241	12.1	209	4.97	6.83	2.34	23.4	14.7
	Tokyo	JP 11057	18.4	16.2	21.0	44.4	29.9	37.3	1.51	5.38	4.58	4.56	17.6
Lao PDR	Vientiane	LA 11051	6.54	6.34	9.65	10.39	15.28	3.32	2.37	4.25	4.18	0.98	3.02
Malaysia	Petaling Jaya	MY 11029	41.8	41.2	80.5	17.2	57.7	10.9	2.97	11.9	11.7	1.16	83.2
	Tanah Rata	MY 11030	10.4	10.2	12.4	5.05	11.6	4.57	1.92	3.11	3.02	0.33	33.0
	Danum Valley	MY 11053	6.85	6.11	2.02	14.6	3.95	12.4	3.22	1.53	1.36	1.20	24.0
Mongolia	Ulaanbaatar	MN 11031	4.67	4.63	3.27	1.18	11.0	0.66	0.16	5.19	5.17	0.60	0.07
	Terelj	MN 11032	4.63	4.53	3.39	1.91	7.19	1.74	0.70	2.52	2.48	0.38	1.12
Myanmar	Yangon	MM 11056	***	***	***	***	***	***	***	***	***	***	10.6
Philippines	Metro Manila	PH 11033	78.1	73.9	49.4	97.8	118	70.8	18.9	36.4	34.9	14.5	18.7
	Los Banos	PH 11034	26.0	22.7	19.4	75.5	52.1	54.4	15.2	16.1	14.9	10.7	9.01
	Mt. Sto. Tomas	PH 11055	19.4	18.2	18.5	24.9	29.4	19.2	7.73	79.0	78.7	7.03	10.0
Republic of Korea	Kanghwa	KR 11035	36.4	34.0	34.5	50.9	51.5	39.1	9.5	11.0	10.1	5.95	21.2
	Cheju (Kosan)	KR 11036	47.1	39.5	18.7	130	35.9	126	8.94	13.2	10.5	9.09	38.2
	Imsil	KR 11037	38.8	37.5	24.4	30.1	53.7	20.2	19.2	18.4	17.9	4.80	2.49
Russia	Mondy	RU 11038	3.26	3.20	2.99	1.38	10.6	1.10	0.87	2.42	2.40	0.62	1.06
	Listvyanka	RU 11039	6.99	6.93	8.33	1.75	6.35	1.05	0.52	3.68	3.66	0.76	8.82
	Irkutsk	RU 11040	16.0	15.8	8.76	6.30	16.2	4.75	3.72	12.7	12.6	3.00	5.59
	Primorskaya	RU 11041	30.4	29.2	18.9	18.3	29.2	19.6	6.11	13.8	13.4	4.25	14.4
Thailand	Bangkok	TH 11042	27.2	26.5	44.1	13.0	91.3	11.2	2.48	21.5	21.3	2.65	14.1
	Samutprakarn	TH 11043	27.7	26.3	31.0	21.0	88.1	22.8	5.38	20.5	20.0	5.03	4.60
	Patumthani	TH 11044	16.6	16.1	31.4	9.17	47.5	7.97	2.23	11.7	11.6	1.77	21.5
	Khanchanaburi	TH 11045	4.20	3.48	5.01	11.3	23.7	12.0	1.21	5.16	4.90	1.70	2.83
	Chiang Mai (Mae Hia)	TH 11046	5.62	5.46	7.47	5.48	17.7	2.75	2.69	7.53	7.47	1.16	1.05
	Nakhon Ratchasima	TH 11054	8.93	8.56	15.7	7.08	25.4	6.17	1.91	5.20	5.07	2.47	11.5
Viet Nam	Hanoi	VN 11047	55.8	55.0	25.8	19.5	80.1	13.6	4.48	30.0	29.7	6.91	4.32
	Hoa Binh	VN 11048	33.1	32.7	20.4	12.3	41.4	6.23	4.36	18.2	18.0	5.38	17.0

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

[***] Not measured

Table 3.57 Data completeness for annual summaries in 2007 (%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	KH 11052	100	93	93	93	93	93	93	93	93	93	93	100	100	100
China	Guanyinqiao	CN 11001	100	99	99	99	99	99	99	99	99	99	99	99	99	99
	Jinyunshan	CN 11003	100	99	99	99	99	99	99	99	99	99	99	99	99	99
	Shizhan	CN 11004	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Jiwozi	CN 11007	100	99	99	99	99	99	99	99	99	99	99	99	99	99
	Hongwen	CN 11008	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Xiaoping	CN 11009	99	100	100	100	100	100	100	100	100	100	100	100	100	100
	Xiang Zhou	CN 11010	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Zhuxian Cavern	CN 11011	***	***	***	***	***	***	***	***	***	***	***	***	***	***
Indonesia	Jakarta	ID 11012	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Serpong	ID 11013	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Kototabang	ID 11014	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Bandung	ID 11015	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Japan	Rishiri	JP 11016	97	85	85	85	85	85	85	85	85	85	85	85	85	85
	Ochiishi	JP 11050	100	99	99	99	99	99	99	99	99	99	99	98	98	98
	Tappi	JP 11017	98	96	96	96	96	96	96	96	96	96	96	95	95	95
	Sado-seki	JP 11019	100	99	99	99	99	99	99	99	99	99	99	96	96	96
	Happo	JP 11021	100	95	95	95	95	95	95	95	95	95	95	95	95	95
	Ijira	JP 11022	100	99	99	99	99	99	99	99	99	99	99	99	99	99
	Oki	JP 11023	100	99	99	99	99	99	99	99	99	99	99	98	98	98
	Banryu	JP 11024	98	89	89	89	89	89	89	89	89	89	89	89	89	89
	Yusuhara	JP 11025	99	99	99	99	99	99	99	99	99	99	99	99	99	99
	Hedo	JP 11027	99	92	92	92	92	92	92	92	92	92	92	91	91	91
	Ogasawara	JP 11018	99	79	79	79	79	79	79	79	79	79	79	79	79	79
	Tokyo	JP 11057	73	100	100	100	100	100	100	100	100	100	100	99	99	99
Lao PDR	Vientiane	LA 11051	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Malaysia	Petaling Jaya	MY 11029	100	100	100	100	100	100	100	100	100	100	100	99	99	99
	Tanah Rata	MY 11030	100	100	100	100	100	100	100	100	100	100	100	96	96	96
	Danum Valley	MY 11053	100	100	100	100	100	100	100	100	100	100	100	96	96	96
Mongolia	Ulaanbaatar	MN 11031	59	100	100	100	100	100	100	100	100	100	100	100	100	100
	Terelj	MN 11032	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Myanmar	Yangon	MM 11056	45	***	***	***	***	***	***	***	***	***	***	100	100	100
Philippines	Metro Manila	PH 11033	100	93	93	93	93	93	93	93	93	93	93	93	93	93
	Los Banos	PH 11034	100	98	98	98	98	98	98	98	98	98	98	98	98	98
	Mt. Sto. Tomas	PH 11055	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Republic of Korea	Kanghwa	KR 11035	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Cheju (Kosan)	KR 11036	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Imsil	KR 11037	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Russia	Mondy	RU 11038	100	97	97	97	97	97	97	97	97	97	97	97	97	97
	Listvyanka	RU 11039	97	100	100	100	100	100	100	100	100	100	100	100	100	100
	Irkutsk	RU 11040	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Primorskaya	RU 11041	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Thailand	Bangkok	TH 11042	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Samutprakarn	TH 11043	100	79	79	79	79	79	79	79	79	79	79	95	95	95
	Patumthani	TH 11044	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Khanchanaburi	TH 11045	100	85	85	85	85	85	85	85	85	85	85	85	85	85
	Chiang Mai (Mae Hia)	TH 11046	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Nakhon Ratchasima	TH 11054	100	100	100	100	100	100	100	100	100	100	100	99	99	99
Viet Nam	Hanoi	VN 11047	100	99	99	99	99	99	99	99	99	99	99	99	99	99
	Hoa Binh	VN 11048	100	99	99	99	99	99	99	99	99	99	99	99	99	99

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

[***] Not measured

Table 3.58 Results of ion balance and conductivity agreement check in 2007

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	29	26	5	19	26	9	35	26	2	8
China	Guanyinqiao	CN 11001	121	120	108	90	120	116	97	120	104	87
	Jinyunshan	CN 11003	135	130	118	91	130	127	98	130	116	89
	Shizhan	CN 11004	41	40	28	70	40	35	88	40	26	65
	Jiwozi	CN 11007	59	58	15	26	58	33	57	58	12	21
	Hongwen	CN 11008	64	63	32	51	63	47	75	63	29	46
	Xiaoping	CN 11009	58	57	19	33	57	39	68	57	13	23
	Xiang Zhou	CN 11010	66	65	30	46	65	50	77	65	23	35
	Zhuxian Cavern	CN 11011	-	-	-	-	-	-	-	-	-	-
Indonesia	Jakarta	ID 11012	37	37	18	49	37	26	70	37	14	38
	Serpong	ID 11013	77	76	76	100	76	76	100	76	76	100
	Kototabang	ID 11014	48	47	9	19	47	28	60	47	4	9
	Bandung	ID 11015	102	101	98	97	101	101	100	101	98	97
Japan	Rishiri	JP 11016	168	111	109	98	111	109	98	111	108	97
	Ochiishi	JP 11050	123	93	93	100	93	93	100	93	93	100
	Tappi	JP 11017	117	92	90	98	92	92	100	92	90	98
	Sado-seki	JP 11019	195	114	114	100	114	114	100	114	114	100
	Happo	JP 11021	199	181	180	99	181	181	100	181	180	99
	Ijira	JP 11022	53	50	50	100	50	50	100	50	50	100
	Oki	JP 11023	191	126	125	99	126	126	100	126	125	99
	Banryu	JP 11024	45	38	38	100	38	38	100	38	38	100
	Yusuhara	JP 11025	142	137	135	99	137	137	100	137	135	99
	Hedo	JP 11027	191	163	162	99	163	161	99	163	160	98
	Ogasawara	JP 11018	154	123	122	99	123	123	100	123	122	99
	Tokyo	JP 11057	110	78	78	100	78	78	100	78	78	100
Lao PDR	Vientiane	LA 11051	50	49	49	100	49	48	98	49	48	98
Malaysia	Petaling Jaya	MY 11029	50	44	43	98	44	44	100	44	43	98
	Tanah Rata	MY 11030	51	40	25	63	40	37	93	40	24	60
	Danum Valley	MY 11053	52	44	27	61	44	41	93	44	27	61
Mongolia	Ulaanbaatar	MN 11031	24	23	4	17	23	12	52	23	4	17
	Terelj	MN 11032	41	37	8	22	37	20	54	37	7	19
Myanmar	Yangon	MM 11056	-	-	-	-	-	-	-	-	-	-
Philippines	Metro Manila	PH 11033	41	40	35	88	40	36	90	40	33	83
	Los Banos	PH 11034	39	38	32	84	38	36	95	38	30	79
	Mt. Sto. Tomas	PH 11055	55	54	42	78	54	44	81	54	40	74
Republic of Korea	Kanghwa	KR 11035	42	41	38	93	41	38	93	41	37	90
	Cheju (Kosan)	KR 11036	53	52	49	94	52	49	94	52	49	94
	Imsil	KR 11037	33	32	20	63	32	25	78	32	19	59
Russia	Mondy	RU 11038	25	24	24	100	24	24	100	24	24	100
	Listvyanka	RU 11039	70	69	69	100	69	69	100	69	69	100
	Irkutsk	RU 11040	102	95	94	99	95	94	99	95	93	98
	Primorskaya	RU 11041	101	93	93	100	93	93	100	93	93	100
Thailand	Bangkok	TH 11042	71	68	4	6	68	57	84	68	3	4
	Samutprakarn	TH 11043	93	80	14	18	80	67	84	80	12	15
	Patumthani	TH 11044	105	102	19	19	102	98	96	102	17	17
	Khanchanaburi	TH 11045	76	75	35	47	75	60	80	75	34	45
	Chiang Mai (Mae Hia)	TH 11046	100	95	38	40	95	75	79	95	32	34
	Nakhon Ratchasima	TH 11054	110	94	27	29	94	91	97	94	25	27
Viet Nam	Hanoi	VN 11047	32	31	30	97	31	31	100	31	30	97
	Hoa Binh	VN 11048	31	30	29	97	30	30	100	30	29	97

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

Guanyinqiao, Jinyunshan, Hongwen, Xiaoping, Metro Manila, Los Banos, Mt. Sto. Tomas, Mondy, Listvyanka, Irkutsk and Primorskaya
: R₁ and R₂, calculated including concentrations of additional measured constituents

Table 3.59 Annual precipitation

unit: mm y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	KH 11052					418.9	1307.8	948.5	1373.9
China	Guanyinqiac	CN 11001	1081.1	751.6	1445.3	986.7	1386.7	1077.2	841.9	1298.6
	Nanshan	CN 11002	1259.4							
	Jinyunshar	CN 11003		710.1	1606.6	1232.5	1517.7	1461.4	1196.0	1644.7
	Shizhan	CN 11004	559.1	363.9	349.0	1273.2	600.9	508.8	482.6	527.3
	Weishuiyuar	CN 11005	447.4	69.3	232.0	1302.1	465.6	438.9	315.6	
	Dabagou	CN 11006	829.3							
	Jiwozi	CN 11007		208.8	141.7	610.8	1019.6	361.6	234.4	100.0
	Hongwen	CN 11008	1517.2	295.5	1567.5	1301.3	1064.9	1701.6	2133.8	1346.8
	Xiaoping	CN 11009	1566.4	2681.5	2170.7	1767.8	1958.4	2921.3	2351.8	1044.0
	Xiang Zhou	CN 11010	2030.5	1989.5	1731.4	1726.0	1339.8	1179.1	1529.0	1441.5
	Zhuxian Cavern	CN 11011	1778.8	2570.8	1581.0	1754.9	1276.8	1062.0	887.0	***
Indonesia	Jakarta	ID 11012	1577.4	1236.7	1572.3	1617.3	1468.7	2125.3	1480.8	2171.0
	Serpong	ID 11014	***	1606.7	2505.2	2142.8	1462.4	824.2	1602.6	2014.7
	Kototabang	ID 11013	2339.8	1208.7	1797.6	3126.7	2110.9	2193.9	1247.6	2772.4
	Bandung	ID 11015	893.3	2604.7	2540.7	1606.1	894.5	1749.3	1311.4	1968.8
Japan	Rishiri	JP 11016	769.9	614.9	957.0	708.6	945.4	961.0	1293.8	882.9
	Ochiishi	JP 11050				781.8	648.0	822.2	996.9	866.1
	Tappi	JP 11017	1048.8	1081.6	1329.4	1149.6	1473.0	1240.2	963.7	1055.3
	Sado-seki	JP 11019	1067.7	970.5	1432.9	1126.3	1539.2	1143.0	1263.6	1162.8
	Happo	JP 11021	2187.9	2345.1	2607.3	2461.4	3088.1	2996.6	2755.2	2328.9
	Ijira	JP 11022	2685.2	2236.5	2648.3	2967.0	3424.4	2569.4	2828.6	2263.5
	Okii	JP 11023	1209.1	1245.8	1570.8	1596.9	1408.6	1313.3	1396.3	1159.8
	Banryu	JP 11024	1565.2	1788.0	1303.0	1752.1	1737.6	1290.3	1959.7	1273.1
	Yusuhara	JP 11025	2800.7	2080.1	2345.9	2839.3	3970.3	2321.4	3160.4	2372.5
	Hedo	JP 11027	2906.8	2125.6	2032.4	1392.6	1778.2	1779.9	1863.3	2701.5
	Ogasawara	JP 11018	1984.9	1805.7	1330.5	1398.4	1170.5	2050.3	1584.9	1566.9
	Tokyo	JP 11057								1079.6
Lao PDR	Vientiane	LA 11051				88.6	441.8	665.5	708.9	1399.0
Malaysia	Petaling Jaya	MY 11029	3417.4	3085.3	2660.4	3040.5	2996.0	2847.5	4009.2	3020.7
	Tanah Rata	MY 11030	3127.4	2626.3	2782.6	3009.5	2415.4	2886.1	2784.9	2968.1
	Danum Valley	MY 11053						1256.3	3005.3	2988.4
Mongolia	Ulaanbaatar	MN 11031	196.5	165.8	178.5	297.2	83.4	150.3	187.9	125.8
	Terelj	MN 11032	207.6	88.6	246.0	311.7	207.1	245.8	214.6	185.2
Myanmar	Yangon	MM 11056								3981.2
Philippines	Metro Manila	PH 11033	4035.6	2291.2	2974.6	2204.8	2163.6	2376.7	2695.6	3504.7
	Los Banos	PH 11034	2635.2	1816.5	1701.6	1608.2	1743.3	1643.1	2222.4	3096.7
	Mt. Sto. Tomas	PH 11055							430.5	3378.8
Republic of Korea	Kanghwa	KR 11035	1117.6	1139.4	824.1	1573.3	877.6	811.3	1091.6	882.9
	Cheju (Kosan)	KR 11036	1058.4	1113.7	1016.8	1291.3	1123.9	699.1	1127.2	1244.4
	Imsil	KR 11037		1299.1	992.6	1875.5	1207.3	1248.1	708.5	1344.0
Russia	Mondy	RU 11038	304.7	319.3	203.7	408.5	359.8	286.1	410.3	350.6
	Listvyanka	RU 11039	441.6	493.6	360.3	540.1	551.1	451.8	310.8	408.0
	Irkutsk	RU 11040	534.4	468.4	302.5	456.7	553.2	441.7	357.3	477.9
	Primorskaya	RU 11041			834.7	322.7	691.5	737.1	622.9	988.8
Thailand	Bangkok	TH 11042	1147.9	1173.9	1300.3	1384.7	1211.4	2006.4	1588.6	1578.8
	Samutprakarn	TH 11043	977.7				1260.4	1625.1	1420.0	1870.9
	Patumthani	TH 11044	955.6	1348.5	948.0	1658.0	976.2	1268.2	1607.7	1380.7
	Khanchanabur	TH 11045	881.3	1516.0	2199.7	1626.9	1391.6	2043.3	2518.1	1704.2
	Chiang Mai (Mae Hia)	TH 11046		1083.9	1472.6	808.0	1151.5	1429.8	1419.8	937.5
	Nakhon Ratchasima	TH 11054							1189.7	1386.3
Viet Nam	Hanoi	VN 11047	1256.3	2254.7	1416.1	1585.6	1574.9	1761.0	1230.6	1659.3
	Hoa Binh	VN 11048	1893.6	2223.2	1625.9	1691.3	1830.8	2279.0	1545.9	1948.6

[***]: 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 3.60 Volume-weighted annual mean concentrations of SO₄²⁻

unit: µmol/L										
Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	KH 11052					***	5.7	5.3	22.5
China	Guanyinqiac	CN 11001	152	205	114	110	165	186	177	130
	Nanshan	CN 11002	130							
	Jinyunshar	CN 11003		124	78	83.2	109	102	141	90.4
	Shizhan	CN 11004	356	470	850	203	173	126	274	183
	Weishuiyuar	CN 11005	538	1510	1010	143	202	107	330	
	Dabagou	CN 11006	141							
	Jiwozi	CN 11007		326	305	90.6	55.2	118	128	182
	Hongwen	CN 11008	20.2	56.5	42.8	36.9	69.1	47.2	28.6	75.5
	Xiaoping	CN 11009	14.6	18.3	16.7	23.6	27.2	20.2	16.9	28.0
	Xiang Zhou	CN 11010	22.4	15.7	27.9	20.5	18.7	23.8	29.2	21.7
	Zhuxian Caver	CN 11011	48.0	19.3	32.0	18.5	26.9	29.5	19.3	***
Indonesia	Jakarta	ID 11012	58.7	62.7	38.5	66.7	48.6	40.3	26.2	27.9
	Serpong	ID 11014	***	38.2	25.7	23.1	28.1	33.3	28.2	30.5
	Kototabang	ID 11013	3.7	4.7	7.5	9.2	5.2	5.5	7.7	7.0
	Bandung	ID 11015	67.4	33.7	27.7	20.4	27.7	35.3	26.8	26.4
Japan	Rishiri	JP 11016	39.0	31.0	27.3	23.5	28.6	27.9	22.9	28.3
	Ochiishi	JP 11050				19.1	34.5	22.6	27.7	21.3
	Tappi	JP 11017	21.9	22.9	22.7	21.8	26.2	29.6	35.8	29.6
	Sado-seki	JP 11019	34.4	41.0	28.2	16.5	17.7	34.2	28.3	34.9
	Happo	JP 11021	13.3	11.7	7.6	7.5	9.1	12.0	10.3	12.2
	Ijira	JP 11022	19.9	22.0	19.7	19.1	14.0	18.9	20.6	19.0
	Oki	JP 11023	40.5	33.8	35.3	21.5	29.3	55.7	29.5	36.3
	Banryu	JP 11024	15.6	19.0	19.0	17.4	19.8	26.9	22.0	27.9
	Yusuhara	JP 11025	11.1	9.2	11.2	9.3	6.7	12.1	10.1	9.5
	Hedo	JP 11027	32.2	15.9	36.9	35.2	77.0	36.0	19.2	14.4
	Ogasawara	JP 11018	11.4	11.4	18.1	18.0	10.7	13.1	10.2	12.7
	Tokyo	JP 11057								17.1
Lao PDR	Vientiane	LA 11051				***	***	***	3.5	4.7
Malaysia	Petaling Jaya	MY 11029	23.5	22.2	23.7	21.0	18.2	23.3	20.6	13.8
	Tanah Rata	MY 11030	4.1	3.7	4.6	3.8	4.0	5.6	4.4	3.5
	Danum Valley	MY 11053						4.4	3.4	2.3
Mongolia	Ulaanbaatar	MN 11031	24.3	25.2	24.7	19.5	22.1	26.7	25.4	37.1
	Terelj	MN 11032	16.4	9.7	15.1	8.3	13.3	17.5	23.8	25.0
Myanmar	Yangon	MM 11056								***
Philippines	Metro Manila	PH 11033	23.4	37.3	26.3	17.1	20.4	24.0	17.6	22.3
	Los Banos	PH 11034	10.5	15.6	16.1	7.1	8.4	9.9	10.8	8.4
	Mt. Sto. Tomas	PH 11055							1.4	5.7
Republic of Korea	Kanghwa	KR 11035	31.6	25.0	34.5	26.1	44.8	46.8	37.0	41.2
	Cheju (Kosan)	KR 11036	23.2	20.7	28.0	22.7	23.8	34.3	28.1	37.9
	Imsil	KR 11037		16.4	22.9	16.3	16.5	22.8	26.8	28.8
Russia	Mondy	RU 11038	7.2	11.0	10.8	8.5	6.8	5.4	4.7	9.3
	Listvyanka	RU 11039	15.4	13.4	18.2	19.1	19.2	17.3	19.0	17.1
	Irkutsk	RU 11040	30.1	29.6	34.2	26.3	26.6	27.8	26.0	33.6
	Primorskaya	RU 11041			29.0	43.1	37.2	38.2	46.0	30.8
Thailand	Bangkok	TH 11042	21.6	18.2	18.6	18.5	16.3	19.5	22.3	17.2
	Samutprakarn	TH 11043	25.5				16.5	19.1	20.7	14.8
	Patumthani	TH 11044	19.6	17.2	15.0	12.4	17.5	13.2	13.4	12.0
	Khanchanaburi	TH 11045	3.6	5.2	5.6	3.6	3.4	2.8	4.0	2.5
	Chiang Mai (Mae Hia)	TH 11046		2.8	4.5	4.1	6.9	5.9	4.5	6.0
	Nakhon Ratchasima	TH 11054							8.2	6.4
Viet Nam	Hanoi	VN 11047	30.1	14.0	33.7	30.1	37.0	51.4	46.9	33.6
	Hoa Binh	VN 11048	16.3	14.7	18.8	22.5	29.4	17.8	24.9	17.0

[***]: 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 3.61 Volume-weighted annual mean concentrations of nss-SO₄²⁻

unit: µmol/L										
Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	<i>KH 11052</i>					***	***	5.1	22.0
China	Guanyinqiac	<i>CN 11001</i>	151	205	114	109	165	185	177	130
	Nanshan	<i>CN 11002</i>	130							
	Jinyunshar	<i>CN 11003</i>		123	78	82.9	109	101	140	90.0
	Shizhan	<i>CN 11004</i>	353	460	835	199	171	125	271	182
	Weishuiyuar	<i>CN 11005</i>	534	1500	994	136	201	106	326	
	Dabagou	<i>CN 11006</i>	140							
	Jiwozi	<i>CN 11007</i>		316	295	84.5	53.7	115	124	177
	Hongwen	<i>CN 11008</i>	18.8	55.9	39.4	34.8	66.0	44.1	27.0	74.0
	Xiaoping	<i>CN 11009</i>	14.1	17.6	15.7	22.1	26.4	19.6	16.1	27.2
	Xiang Zhou	<i>CN 11010</i>	19.9	14.6	25.4	18.3	16.7	21.5	27.0	20.5
	Zhuxian Caver	<i>CN 11011</i>	46.3	18.0	29.3	16.4	23.8	26.1	18.0	***
Indonesia	Jakarta	<i>ID 11012</i>	55.6	60.3	36.4	65.1	46.4	38.9	25.4	27.0
	Serpong	<i>ID 11014</i>	***	36.8	24.2	22.4	26.9	32.3	27.7	29.8
	Kototabang	<i>ID 11013</i>	***	4.4	7.1	8.6	4.6	5.2	7.3	6.5
	Bandung	<i>ID 11015</i>	***	32.5	27.2	20.0	27.0	34.6	25.7	26.0
Japan	Rishiri	<i>JP 11016</i>	19.4	18.2	15.6	12.9	14.7	15.7	16.3	19.7
	Ochiishi	<i>JP 11050</i>				7.5	12.9	10.1	11.3	10.1
	Tappi	<i>JP 11017</i>	12.9	14.8	12.9	13.4	14.2	16.6	18.4	15.7
	Sado-seki	<i>JP 11019</i>	18.9	19.5	13.1	10.9	9.5	16.8	14.8	21.3
	Happo	<i>JP 11021</i>	12.9	11.3	7.4	7.2	8.8	11.5	10.1	12.0
	Ijira	<i>JP 11022</i>	18.7	20.2	18.0	18.3	12.7	18.0	20.0	17.7
	Oki	<i>JP 11023</i>	16.9	14.8	13.5	10.3	11.9	19.3	15.8	19.7
	Banryu	<i>JP 11024</i>	13.9	14.3	14.2	12.5	13.0	21.3	18.0	23.1
	Yusuhara	<i>JP 11025</i>	10.1	8.4	9.4	8.5	5.3	10.6	9.4	8.7
	Hedo	<i>JP 11027</i>	5.9	6.5	7.4	11.3	24.4	13.0	7.9	6.6
	Ogasawara	<i>JP 11018</i>	3.1	5.1	3.9	4.1	3.4	7.3	4.2	4.9
	Tokyo	<i>JP 11057</i>								15.0
Lao PDR	Vientiane	<i>LA 11051</i>				***	***	***	3.0	4.5
Malaysia	Petaling Jaya	<i>MY 11029</i>	23.2	22.0	23.4	20.7	17.9	22.9	20.3	13.6
	Tanah Rata	<i>MY 11030</i>	4.0	3.6	4.5	3.7	3.9	5.2	4.3	3.4
	Danum Valley	<i>MY 11053</i>						4.1	3.1	2.0
Mongolia	Ulaanbaatar	<i>MN 11031</i>	23.9	24.6	24.3	19.3	21.8	26.3	24.9	36.8
	Terelj	<i>MN 11032</i>	16.0	8.8	14.3	8.0	12.9	16.8	23.0	24.5
Myanmar	Yangon	<i>MM 11056</i>								***
Philippines	Metro Manila	<i>PH 11033</i>	21.6	22.7	25.4	16.0	19.4	23.0	16.5	21.1
	Los Banos	<i>PH 11034</i>	8.5	13.2	14.8	6.2	7.7	8.8	9.4	7.3
	Mt. Sto. Tomas	<i>PH 11055</i>							1.2	5.4
Republic of Korea	Kanghwa	<i>KR 11035</i>	28.2	22.5	31.5	24.6	42.9	44.7	35.2	38.5
	Cheju (Kosan)	<i>KR 11036</i>	14.0	16.2	24.5	19.9	20.3	29.2	22.9	31.8
	Imsil	<i>KR 11037</i>		15.5	20.5	14.9	15.4	21.5	24.9	27.9
Russia	Mondy	<i>RU 11038</i>	7.1	10.8	10.7	8.4	6.7	5.3	4.6	9.1
	Listvyanka	<i>RU 11039</i>	15.1	13.2	18.0	18.8	18.9	17.1	18.8	17.0
	Irkutsk	<i>RU 11040</i>	29.6	29.1	33.6	25.9	26.2	27.4	25.4	33.0
	Primorskaya	<i>RU 11041</i>			27.6	41.1	35.8	36.9	45.0	29.6
Thailand	Bangkok	<i>TH 11042</i>	21.2	17.7	17.6	18.0	15.7	18.7	21.8	16.8
	Samutprakarn	<i>TH 11043</i>	24.9				15.5	17.9	19.7	14.1
	Patumthani	<i>TH 11044</i>	18.9	16.7	14.4	12.1	17.0	12.8	13.0	11.7
	Khanchanabur	<i>TH 11045</i>	3.1	4.5	5.1	3.0	2.8	2.4	3.7	2.0
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		2.6	3.9	4.0	6.7	5.8	4.3	5.8
	Nakhon Ratchasima	<i>TH 11054</i>							8.0	6.2
Viet Nam	Hanoi	<i>VN 11047</i>	29.0	13.3	33.4	29.6	36.5	50.4	46.1	33.1
	Hoa Binh	<i>VN 11048</i>	15.5	14.1	18.6	22.3	29.2	17.4	24.6	16.8

[***]: 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 3.62 Volume-weighted annual mean concentrations of NO₃⁻

unit: µmol/L

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	<i>KH 11052</i>					7.7	***	9.1	8.3
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							
	Jinyunshan	<i>CN 11003</i>		40.3	29.4	34.4	36.8	34.4	46.1	31.5
	Shizhan	<i>CN 11004</i>	87.0	153	150	68.0	61.7	12.1	81.7	75.9
	Weishuiyuan	<i>CN 11005</i>	95.8	210	168	54.1	69.6	11.4	104	
	Dabagou	<i>CN 11006</i>	29.1							
	Jiwozi	<i>CN 11007</i>		140	89.8	42.8	26.4	9.3	50.7	66.8
	Hongwen	<i>CN 11008</i>	18.7	37.9	30.7	33.6	49.8	37.3	22.4	37.6
	Xiaoping	<i>CN 11009</i>	14.6	18.7	14.8	22.6	19.6	18.1	16.0	26.2
	Xiang Zhou	<i>CN 11010</i>	15.6	14.1	17.8	20.9	22.1	17.2	21.8	16.6
	Zhuxian Cavern	<i>CN 11011</i>	33.5	22.2	20.8	11.5	25.0	21.5	13.2	***
Indonesia	Jakarta	<i>ID 11012</i>	17.6	53.7	28.2	58.4	77.6	53.9	20.5	31.1
	Serpong	<i>ID 11014</i>	***	50.7	32.6	30.8	39.7	39.4	28.3	30.4
	Kototabang	<i>ID 11013</i>	6.2	2.7	5.6	49.3	4.7	1.6	1.4	3.6
	Bandung	<i>ID 11015</i>	34.4	26.9	26.3	20.4	28.2	19.2	23.1	21.6
Japan	Rishiri	<i>JP 11016</i>	18.1	18.0	13.5	12.2	11.6	12.6	14.0	15.6
	Ochiishi	<i>JP 11050</i>				8.0	13.5	9.3	11.4	9.6
	Tappi	<i>JP 11017</i>	12.9	15.3	16.9	16.9	16.3	18.2	22.5	21.6
	Sado-seki	<i>JP 11019</i>	18.3	22.2	15.0	13.9	11.2	18.6	18.9	25.8
	Happo	<i>JP 11021</i>	11.1	8.9	7.0	6.6	8.0	9.5	8.3	9.8
	Ijira	<i>JP 11022</i>	24.1	21.7	21.8	21.7	15.4	24.1	24.2	21.8
	Oki	<i>JP 11023</i>	18.6	15.7	15.1	12.9	17.0	21.8	18.2	23.8
	Banryu	<i>JP 11024</i>	13.9	17.4	19.1	15.9	15.6	25.5	19.5	29.2
	Yusuhara	<i>JP 11025</i>	7.0	6.8	8.4	6.9	5.3	9.4	7.6	7.2
	Hedo	<i>JP 11027</i>	5.7	6.6	9.5	9.5	13.4	11.0	8.1	6.4
	Ogasawara	<i>JP 11018</i>	2.4	3.7	2.7	4.7	3.7	3.2	4.8	4.9
	Tokyo	<i>JP 11057</i>								19.5
Lao PDR	Vientiane	<i>LA 11051</i>				***	***	***	6.9	6.9
Malaysia	Petaling Jaya	<i>MY 11029</i>	27.2	23.7	36.8	32.9	29.8	35.9	30.0	26.6
	Tanah Rata	<i>MY 11030</i>	3.3	3.4	6.0	4.7	4.6	6.0	5.3	4.2
	Danum Valley	<i>MY 11053</i>						2.5	1.4	<1.0
Mongolia	Ulaanbaatar	<i>MN 11031</i>	19.9	20.7	23.7	15.5	15.8	18.8	18.6	26.0
	Terelj	<i>MN 11032</i>	17.6	9.2	18.1	12.4	16.1	11.8	15.5	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
	Los Banos	<i>PH 11034</i>	5.4	13.9	8.2	4.9	6.1	9.8	8.1	6.2
	Mt. Sto. Tomas	<i>PH 11055</i>							1.9	5.5
Republic of Korea	Kanghwa	<i>KR 11035</i>	42.4	28.6	32.7	27.3	41.1	45.0	33.0	39.0
	Cheju (Kosan)	<i>KR 11036</i>	15.3	18.4	24.0	23.0	24.8	27.5	25.5	15.1
	Imsil	<i>KR 11037</i>		15.6	32.0	16.9	20.5	26.4	27.7	18.1
Russia	Mondy	<i>RU 11038</i>	10.0	10.6	13.5	6.8	6.8	5.0	5.1	8.5
	Listvyanka	<i>RU 11039</i>	18.7	14.7	25.0	29.8	19.8	11.8	14.6	20.4
	Irkutsk	<i>RU 11040</i>	21.0	18.4	21.8	17.8	17.1	16.4	16.5	18.3
	Primorskaya	<i>RU 11041</i>			10.2	15.4	21.4	21.6	29.2	19.1
Thailand	Bangkok	<i>TH 11042</i>	21.6	17.9	24.6	23.1	15.9	23.2	33.0	28.0
	Samutprakarn	<i>TH 11043</i>	15.4				9.8	17.9	14.1	16.6
	Patumthani	<i>TH 11044</i>	18.6	19.6	18.5	17.2	24.0	19.6	22.0	22.8
	Khanchanaburi	<i>TH 11045</i>	5.7	6.8	6.1	4.9	4.8	2.5	6.1	2.9
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		4.1	6.6	6.5	6.1	8.4	7.9	8.0
	Nakhon Ratchasima	<i>TH 11054</i>							11.3	11.4
Viet Nam	Hanoi	<i>VN 11047</i>	16.1	5.1	15.1	24.8	25.2	30.8	24.9	15.6
	Hoa Binh	<i>VN 11048</i>	9.7	8.8	20.2	13.4	19.9	12.9	16.1	10.5

[***]: 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 3.63 Volume-weighted annual mean concentrations of CI

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

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	<i>KH 11052</i>					***	6.2	6.2	12.6
China	Guanyinqiac	<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							
	Jinyunshar	<i>CN 11003</i>		56.8	12.9	10.3	12.8	15.5	13.6	8.7
	Shizhan	<i>CN 11004</i>	49.0	81.3	349	83.3	36.1	34.4	35.8	39.9
	Weishuiyuar	<i>CN 11005</i>	91.6	278	285	99.4	39.4	36.5	51.1	
	Dabagou	<i>CN 11006</i>	32.3							
	Jiwozi	<i>CN 11007</i>		98.9	185	70.1	14.8	38.4	33.2	44.1
	Hongwen	<i>CN 11008</i>	32.0	35.8	42.9	51.3	60.2	66.0	45.9	39.0
	Xiaoping	<i>CN 11009</i>	20.7	28.8	9.1	23.5	16.6	11.9	22.3	14.6
	Xiang Zhou	<i>CN 11010</i>	49.8	37.8	68.9	47.4	36.4	65.8	44.6	30.9
	Zhuxian Caver	<i>CN 11011</i>	39.4	27.7	59.5	40.2	58.8	52.6	29.3	***
Indonesia	Jakarta	<i>ID 11012</i>	21.5	38.9	28.1	52.2	39.1	41.6	15.6	18.7
	Serpong	<i>ID 11014</i>	***	32.3	23.0	27.2	23.8	19.8	10.9	14.3
	Kototabang	<i>ID 11013</i>	6.8	6.6	16.8	27.8	11.8	7.1	7.8	13.8
	Bandung	<i>ID 11015</i>	105	25.0	20.3	13.0	17.4	14.6	14.1	7.5
Japan	Rishiri	<i>JP 11016</i>	372	235	217	201	256	233	126	161
	Ochiishi	<i>JP 11050</i>				227	410	232	317	219
	Tappi	<i>JP 11017</i>	178	156	191	154	231	250	326	262
	Sado-seki	<i>JP 11019</i>	274	378	307	107	154	337	256	257
	Happo	<i>JP 11021</i>	10.7	8.8	5.0	7.3	8.7	8.7	5.7	4.4
	Ijira	<i>JP 11022</i>	23.0	32.7	33.3	19.1	27.5	16.8	14.4	24.8
	Okii	<i>JP 11023</i>	449	359	419	201	321	696	253	312
	Banryu	<i>JP 11024</i>	31.0	86.5	88.9	92.5	133	110	76.0	89.2
	Yusuhara	<i>JP 11025</i>	18.7	12.3	31.8	16.0	28.1	29.9	14.0	16.2
	Hedo	<i>JP 11027</i>	515	175	593	451	982	488	217	146
	Ogasawara	<i>JP 11018</i>	164	123	278	286	139	115	119	154
	Tokyo	<i>JP 11057</i>								41.1
						***	***	***	4.8	7.4
Lao PDR	Vientiane	<i>LA 11051</i>								
Malaysia	Petaling Jaya	<i>MY 11029</i>	8.5	7.5	7.3	9.2	7.4	8.8	6.9	5.7
	Tanah Rata	<i>MY 11030</i>	6.8	3.0	2.3	2.4	2.4	2.6	2.1	1.7
	Danum Valley	<i>MY 11053</i>						6.0	7.2	4.9
Mongolia	Ulaanbaatar	<i>MN 11031</i>	9.0	9.7	7.7	7.6	8.0	7.8	7.8	9.4
	Terelj	<i>MN 11032</i>	9.0	8.7	11.4	6.6	9.0	9.9	9.3	10.3
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
	Los Banos	<i>PH 11034</i>	33.0	34.5	24.6	16.2	14.3	18.1	21.0	24.4
	Mt. Sto. Tomas	<i>PH 11055</i>							1.6	7.4
Republic of Korea	Kanghwa	<i>KR 11035</i>	54.9	42.6	43.0	61.3	55.8	56.1	36.0	57.7
	Cheju (Kosan)	<i>KR 11036</i>	210	112	83.8	68.5	79.1	105	102	104
	Imsil	<i>KR 11037</i>		28.7	36.9	38.1	26.7	44.0	77.5	22.4
Russia	Mondy	<i>RU 11038</i>	2.6	1.4	8.9	3.1	2.8	5.9	4.5	3.9
	Listvyanka	<i>RU 11039</i>	5.0	2.2	6.8	4.1	4.9	5.4	3.5	4.3
	Irkutsk	<i>RU 11040</i>	11.6	12.2	18.0	17.7	8.5	12.4	12.5	13.2
	Primorskaya	<i>RU 11041</i>			33.9	35.6	21.3	21.7	18.0	18.6
Thailand	Bangkok	<i>TH 11042</i>	12.6	9.4	13.9	8.7	11.3	12.3	10.8	8.2
	Samutprakarn	<i>TH 11043</i>	12.9				12.8	19.0	12.5	11.2
	Patumthani	<i>TH 11044</i>	10.4	7.8	11.6	6.4	14.3	7.1	6.8	6.6
	Khanchanabur	<i>TH 11045</i>	17.6	10.0	14.1	8.8	10.0	7.8	6.3	6.6
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		4.5	10.1	4.7	3.8	4.2	3.7	5.8
	Nakhon Ratchasima	<i>TH 11054</i>							5.5	5.1
Viet Nam	Hanoi	<i>VN 11047</i>	24.3	27.1	9.5	21.3	14.7	27.2	15.6	11.8
	Hoa Binh	<i>VN 11048</i>	20.3	22.1	7.0	6.9	11.8	13.5	6.5	6.3

[***]: 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 NH_4^+

unit: $\mu\text{mol/L}$										
Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	KH 11052					10.8	16.3	17.9	19.7
China	Guanyinqiac	CN 11001	161	211	120	132	137	157	179	140
	Nanshan	CN 11002	105							
	Jinyunshar	CN 11003		111	83.5	85.6	105	105	121	75
	Shizhan	CN 11004	421	255	203	144	146	77.2	167	206
	Weishuiyuar	CN 11005	426	354	319	144	151	64.4	239	
	Dabagou	CN 11006	199							
	Jiwozi	CN 11007		171	71.2	82.7	37.1	37.8	48.6	11.2
	Hongwen	CN 11008	31.6	64.9	44.2	29.4	45.8	35.4	29.1	38.5
	Xiaoping	CN 11009	19.8	33.2	31.1	38.2	38.0	32.2	21.5	52.7
	Xiang Zhou	CN 11010	20.5	25.0	95.8	34.0	50.7	103	56.7	19.4
	Zhuxian Caver	CN 11011	51.0	30.3	48.4	29.9	59.5	26.1	27.4	***
Indonesia	Jakarta	ID 11012	77.3	66.2	31.7	20.8	22.4	12.4	17.4	24.2
	Serpong	ID 11014	***	67.6	46.0	45.0	42.3	44.6	40.3	44.3
	Kototabang	ID 11013	1.1	2.4	5.1	1.8	12.3	9.5	9.9	18.2
	Bandung	ID 11015	32.8	37.9	29.9	32.7	36.8	35.8	46.5	47.9
Japan	Rishiri	JP 11016	34.0	26.0	20.1	18.3	17.1	18.9	17.5	25.9
	Ochiishi	JP 11050				7.6	11.8	7.5	15.6	7.8
	Tappi	JP 11017	9.6	12.7	14.7	16.2	15.6	15.8	18.9	17.7
	Sado-seki	JP 11019	16.9	19.7	14.5	15.6	10.1	18.3	16.6	25.2
	Happo	JP 11021	14.2	10.8	7.7	6.4	8.3	10.8	9.0	11.1
	Ijira	JP 11022	23.8	17.6	22.8	18.1	14.7	20.3	22.8	20.7
	Okii	JP 11023	19.4	14.7	12.4	8.8	10.9	15.8	12.8	15.7
	Banryu	JP 11024	11.6	13.8	17.9	12.5	11.2	21.8	14.9	22.3
	Yusuhara	JP 11025	5.1	5.2	7.6	6.0	4.8	8.9	7.5	7.4
	Hedo	JP 11027	7.2	4.5	18.5	10.9	17.2	13.3	8.6	7.5
	Ogasawara	JP 11018	2.3	4.8	5.4	3.6	5.1	3.5	4.6	7.7
	Tokyo	JP 11057								27.7
Lao PDR	Vientiane	LA 11051				***	***	***	7.7	10.9
Malaysia	Petaling Jaya	MY 11029	43.7	58.1	16.2	12.2	13.1	20.1	23.3	19.1
	Tanah Rata	MY 11030	41.1	35.4	4.0	2.3	2.4	2.8	3.5	3.9
	Danum Valley	MY 11053						2.0	2.0	1.3
Mongolia	Ulaanbaatar	MN 11031	52.0	49.9	72.8	47.5	46.2	54.4	53.7	87.1
	Terelj	MN 11032	44.3	30.5	65.7	31.6	35.6	36.1	54.6	38.8
Myanmar	Yangon	MM 11056								***
Philippines	Metro Manila	PH 11033	35.6	77.1	46.2	23.7	35.4	29.9	40.5	33.6
	Los Banos	PH 11034	13.6	22.4	34.5	14.5	13.9	15.0	16.3	16.8
	Mt. Sto. Tomas	PH 11055							<1.0	8.7
Republic of Korea	Kanghwa	KR 11035	37.6	37.5	40.1	57.6	75.6	66.4	53.0	58.4
	Cheju (Kosan)	KR 11036	20.2	32.3	43.3	41.9	36.0	30.9	26.1	28.8
	Imsil	KR 11037		42.3	42.2	32.5	28.2	32.4	50.2	40.0
Russia	Mondy	RU 11038	11.4	22.2	33.8	14.7	11.2	9.8	3.7	30.1
	Listvyanka	RU 11039	16.5	10.8	26.8	20.8	12.2	16.6	15.5	15.6
	Irkutsk	RU 11040	32.1	25.1	43.0	42.1	27.2	35.3	24.9	33.9
	Primorskaya	RU 11041			35.9	39.1	30.4	41.6	49.8	29.6
Thailand	Bangkok	TH 11042	41.3	36.2	46.8	37.5	37.8	43.4	56.1	57.8
	Samutprakarn	TH 11043	31.8				34.5	37.4	49.9	47.1
	Patumthani	TH 11044	38.3	35.5	34.2	29.1	34.0	31.2	33.5	34.4
	Khanchanabur	TH 11045	6.8	11.0	10.9	12.5	8.4	5.0	17.5	13.9
	Chiang Mai (Mae Hia)	TH 11046		15.8	18.5	15.8	15.7	21.0	15.2	18.8
	Nakhon Ratchasima	TH 11054							23.1	18.3
Viet Nam	Hanoi	VN 11047	27.5	20.3	55.5	55.1	52.7	98.8	45.7	48.3
	Hoa Binh	VN 11048	8.0	12.5	28.2	28.7	41.0	30.1	27.6	21.3

[***]: 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 Na⁺

unit: µmol/L										
Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	KH 11052					***	***	1.8	8.2
China	Guanyinqiao	CN 11001	11.8	10.8	5.5	4.9	7.3	8.3	7.9	5.9
	Nanshan	CN 11002	7.7							
	Jinyunshan	CN 11003		10.2	5.9	5.0	12.3	15.3	6.6	6.2
	Shizhan	CN 11004	44.1	164	246	69.2	19.1	16.1	45.2	15.6
	Weishuiyuan	CN 11005	68.9	219	207	113	23.3	20.5	66.9	
	Dabagou	CN 11006	23.8							
	Jiwozi	CN 11007		158	171	102	25.1	59.6	65.6	85.8
	Hongwen	CN 11008	23.8	10.8	55.6	34.8	50.4	51.4	30.8	24.1
	Xiaoping	CN 11009	8.7	11.8	16.4	24.7	13.0	9.7	23.2	12.4
	Xiang Zhou	CN 11010	42.1	24.6	41.5	39.1	72.1	44.1	35.5	19.4
	Zhuxian Cavern	CN 11011	31.2	27.5	45.2	36.0	94.4	60.9	22.6	***
Indonesia	Jakarta	ID 11012	52.4	39.4	35.3	27.1	37.2	23.2	13.1	15.8
	Serpong	ID 11014	***	23.8	25.2	11.3	19.6	16.0	7.5	11.7
	Kototabang	ID 11013	***	4.5	6.3	9.7	10.9	5.7	6.2	8.6
	Bandung	ID 11015	***	20.2	8.6	7.1	10.8	11.9	18.3	6.6
Japan	Rishiri	JP 11016	325	212	197	176	229	203	110	143
	Ochiishi	JP 11050				198	360	208	278	186
	Tappi	JP 11017	149	134	165	141	199	218	289	234
	Sado-seki	JP 11019	258	355	268	93.8	135	290	224	227
	Happo	JP 11021	7.8	6.2	3.4	4.8	5.9	7.0	4.1	3.1
	Ijira	JP 11022	19.9	29.7	28.5	13.3	21.6	13.6	10.8	20.8
	Okii	JP 11023	396	316	363	185	295	602	225	275
	Banryu	JP 11024	28.9	78.2	79.4	80.9	113	92.1	66.4	78.6
	Yusuhara	JP 11025	15.2	11.8	28.9	14.4	24.1	25.2	11.9	13.5
	Hedo	JP 11027	454	160	515	430	873	449	189	129
	Ogasawara	JP 11018	139	104	236	251	125	97.3	103	133
	Tokyo	JP 11057								34.5
						***	***	***	7.1	2.4
Lao PDR	Vientiane	LA 11051								
Malaysia	Petaling Jaya	MY 11029	5.0	3.7	5.1	5.6	5.7	6.6	4.3	3.6
	Tanah Rata	MY 11030	1.9	1.9	1.6	1.9	1.8	6.6	1.4	1.5
	Danum Valley	MY 11053						4.5	5.6	4.1
Mongolia	Ulaanbaatar	MN 11031	7.9	9.1	6.3	3.8	5.8	7.2	8.4	5.2
	Terej	MN 11032	6.5	15.9	16.9	4.5	6.3	11.5	12.5	9.4
Myanmar	Yangon	MM 11056								***
Philippines	Metro Manila	PH 11033	30.6	205	14.6	18.4	16.3	15.9	17.2	20.2
	Los Banos	PH 11034	34.8	37.2	21.1	15.3	12.0	17.2	22.7	17.6
	Mt. Sto. Tomas	PH 11055							2.8	5.7
Republic of Korea	Kanghwa	KR 11035	56.3	41.7	49.2	25.4	32.5	33.7	28.8	44.3
	Cheju (Kosan)	KR 11036	152	74.7	58.3	46.7	57.8	84.8	85.0	101.0
	Imsil	KR 11037		15.4	38.6	22.8	17.9	21.7	31.1	15.0
Russia	Mondy	RU 11038	1.8	2.3	1.9	2.3	1.9	1.5	1.6	3.1
	Listvyanka	RU 11039	4.6	3.4	3.8	5.1	4.7	3.0	2.8	2.6
	Irkutsk	RU 11040	8.8	8.3	9.2	6.6	6.6	6.9	10.0	9.9
	Primorskaya	RU 11041			23.1	33.7	22.5	21.7	16.8	19.8
Thailand	Bangkok	TH 11042	6.9	8.3	16.1	7.6	10.2	12.8	8.7	7.1
	Samutprakarn	TH 11043	10.1				16.5	19.8	14.6	12.2
	Patumthani	TH 11044	10.9	8.1	9.6	4.7	8.9	6.6	7.5	5.8
	Khanchanaburi	TH 11045	9.7	11.3	8.3	10.3	9.0	6.7	6.9	7.0
	Chiang Mai (Mae Hia)	TH 11046		3.9	9.7	3.2	3.1	<1.0	3.5	2.9
	Nakhon Ratchasima	TH 11054							4.5	4.5
Viet Nam	Hanoi	VN 11047	18.1	11.5	5.9	9.0	8.1	17.7	13.5	8.2
	Hoa Binh	VN 11048	12.7	9.8	2.1	2.4	3.9	7.5	4.5	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 3.66 Volume-weighted annual mean concentrations of K⁺

			unit: µmol/L							
Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	<i>KH 11052</i>					1.6	***	1.5	3.6
China	Guanyinqiac	<i>CN 11001</i>	14.2	18.7	10.6	11.0	10.9	12.4	12.6	8.8
	Nanshan	<i>CN 11002</i>	16.3							
	Jinyunshar	<i>CN 11003</i>		44.4	10.3	8.6	11.7	11.4	11.4	6.8
	Shizhan	<i>CN 11004</i>	26.5	42.2	40.5	18.7	9.6	15.4	18.0	19.3
	Weishuiyuar	<i>CN 11005</i>	34.7	74.9	76.6	20.3	11.3	12.6	33.6	
	Dabagou	<i>CN 11006</i>	17.9							
	Jiwozi	<i>CN 11007</i>		43.6	42.2	21.3	8.5	27.7	20.8	28.0
	Hongwen	<i>CN 11008</i>	5.0	10.4	4.3	4.3	7.2	5.1	3.3	3.7
	Xiaoping	<i>CN 11009</i>	2.8	4.2	3.8	4.7	5.1	2.8	13.5	7.3
	Xiang Zhou	<i>CN 11010</i>	6.6	4.0	17.6	5.7	7.7	2.7	8.2	8.3
	Zhuxian Caver	<i>CN 11011</i>	6.2	5.9	13.2	6.6	22.7	5.6	2.6	***
Indonesia	Jakarta	<i>ID 11012</i>	***	24.3	11.3	9.3	10.3	5.7	8.0	11.2
	Serpong	<i>ID 11014</i>	***	7.0	3.9	8.0	5.6	6.2	4.5	2.8
	Kototabang	<i>ID 11013</i>	***	1.3	5.1	20.0	6.3	4.4	4.6	8.4
	Bandung	<i>ID 11015</i>	***	12.6	2.0	4.1	3.3	4.7	4.8	2.0
Japan	Rishiri	<i>JP 11016</i>	9.9	6.0	5.1	4.9	6.0	5.1	3.7	4.1
	Ochiishi	<i>JP 11050</i>				4.6	8.1	5.3	7.7	4.6
	Tappi	<i>JP 11017</i>	3.6	3.3	4.1	3.4	4.9	5.0	7.1	5.7
	Sado-seki	<i>JP 11019</i>	6.4	8.2	6.5	2.5	3.6	6.6	5.7	5.9
	Happo	<i>JP 11021</i>	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Ijira	<i>JP 11022</i>	2.9	4.1	2.1	1.2	1.1	<1.0	<1.0	1.1
	Oki	<i>JP 11023</i>	10.5	8.8	9.5	5.4	9.6	15.5	6.6	9.1
	Banryu	<i>JP 11024</i>	1.4	2.7	2.9	2.5	3.0	3.7	2.2	3.1
	Yusuhara	<i>JP 11025</i>	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Hedo	<i>JP 11027</i>	9.1	3.6	12.0	10.1	24.6	11.3	4.7	3.3
	Ogasawara	<i>JP 11018</i>	3.6	4.1	6.2	5.6	3.1	2.3	2.5	3.2
	Tokyo	<i>JP 11057</i>								1.4
Lao PDR	Vientiane	<i>LA 11051</i>				***	***	***	3.5	1.7
Malaysia	Petaling Jaya	<i>MY 11029</i>	1.8	1.4	1.3	3.0	1.6	2.5	1.6	<1.0
	Tanah Rata	<i>MY 11030</i>	1.1	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0
	Danum Valley	<i>MY 11053</i>						1.2	1.0	1.1
Mongolia	Ulaanbaatar	<i>MN 11031</i>	3.9	4.6	3.8	3.4	2.8	4.3	5.2	1.3
	Terelj	<i>MN 11032</i>	4.5	3.8	10.2	4.1	4.7	6.5	9.0	3.8
Myanmar	Yangon	<i>MM 11056</i>								***
Philippines	Metro Manila	<i>PH 11033</i>	15.5	23.2	9.9	2.5	3.9	3.9	12.6	5.4
	Los Banos	<i>PH 11034</i>	1.7	9.5	6.4	1.8	2.1	2.2	2.5	4.9
	Mt. Sto. Tomas	<i>PH 11055</i>							1.3	2.3
Republic of Korea	Kanghwa	<i>KR 11035</i>	5.6	4.7	8.8	9.4	11.4	6.5	4.9	10.8
	Cheju (Kosan)	<i>KR 11036</i>	6.3	9.4	6.4	8.2	8.1	8.6	6.0	7.2
	Imsil	<i>KR 11037</i>		14.8	6.5	11.2	5.7	48.6	42.1	14.3
Russia	Mondy	<i>RU 11038</i>	1.2	2.1	2.3	1.6	2.7	1.0	1.1	2.5
	Listvyanka	<i>RU 11039</i>	4.7	1.7	2.2	2.6	2.4	1.1	1.5	1.3
	Irkutsk	<i>RU 11040</i>	4.4	7.4	2.3	2.6	2.7	3.4	7.6	7.8
	Primorskaya	<i>RU 11041</i>			5.3	10.1	7.2	7.1	5.5	6.2
Thailand	Bangkok	<i>TH 11042</i>	3.2	4.1	3.4	2.6	1.6	2.2	2.8	1.6
	Samutprakarn	<i>TH 11043</i>	5.3				4.9	4.9	4.3	2.9
	Patumthani	<i>TH 11044</i>	2.3	1.7	1.5	1.2	1.2	1.2	1.7	1.6
	Khanchanabur	<i>TH 11045</i>	8.9	5.0	2.4	2.0	1.1	<1.0	2.4	<1.0
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		2.9	4.4	4.0	1.4	<1.0	1.7	2.9
	Nakhon Ratchasima	<i>TH 11054</i>							<1.0	1.4
Viet Nam	Hanoi	<i>VN 11047</i>	4.1	3.8	2.1	2.6	3.0	5.2	3.8	2.7
	Hoa Binh	<i>VN 11048</i>	3.6	2.3	1.5	1.5	1.7	3.6	2.4	2.2

[***]: 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 Ca²⁺

unit: µmol/L										
Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	KH 11052					<0.2	***	9.1	19.2
China	Guanyinqiac	CN 11001	63.0	137	65.4	65.4	110	156	143	75.2
	Nanshan	CN 11002	55.2							
	Jinyunshar	CN 11003		44.9	29.7	30.7	70.5	57.7	98.3	55.1
	Shizhan	CN 11004	229	675	479	258	147	107	301	116
	Weishuiyuar	CN 11005	305	1160	617	241	190	91.0	330	
	Dabagou	CN 11006	124							
	Jiwozi	CN 11007		429	276	230	88.0	129	221	347
	Hongwen	CN 11008	6.7	36.3	49.1	30.7	83.7	37.4	25.5	54.9
	Xiaoping	CN 11009	0.8	5.1	10.6	17.3	6.4	10.6	10.5	16.7
	Xiang Zhou	CN 11010	21.2	8.0	15.5	22.8	18.0	7.3	14.1	4.7
	Zhuxian Caver	CN 11011	25.0	14.3	20.7	20.2	24.7	17.0	17.1	***
Indonesia	Jakarta	ID 11012	87.6	64.4	42.9	101	50.9	17.4	18.8	13.9
	Serpong	ID 11014	***	13.6	9.9	6.6	10.5	12.0	7.2	7.4
	Kototabang	ID 11013	4.0	1.4	4.9	5.5	7.0	3.4	5.2	4.7
	Bandung	ID 11015	***	24.2	17.1	10.9	18.3	15.9	14.8	9.5
Japan	Rishiri	JP 11016	13.7	10.1	10.2	7.7	8.6	7.6	5.3	5.8
	Ochiishi	JP 11050				5.7	12.2	9.0	10.2	7.0
	Tappi	JP 11017	6.4	5.8	9.0	7.0	7.8	10.7	12.7	11.0
	Sado-seki	JP 11019	11.7	15.8	9.1	5.1	4.7	10.2	12.1	11.8
	Happo	JP 11021	3.9	4.3	2.0	1.9	2.4	4.1	6.3	2.9
	Ijira	JP 11022	6.8	5.6	4.2	2.9	2.3	2.8	2.9	3.6
	Oki	JP 11023	16.0	12.9	11.5	6.9	11.9	18.6	11.4	13.6
	Banryu	JP 11024	4.2	6.0	5.4	3.4	5.3	5.9	9.5	7.4
	Yusuhara	JP 11025	2.7	3.4	1.8	1.4	1.8	2.4	2.6	2.0
	Hedo	JP 11027	10.1	4.9	14.0	10.9	22.7	14.1	9.2	4.9
	Ogasawara	JP 11018	5.1	5.4	8.6	8.0	3.4	2.6	3.6	4.4
	Tokyo	JP 11057								5.0
Lao PDR	Vientiane	LA 11051				***	***	***	8.7	3.0
Malaysia	Petaling Jaya	MY 11029	6.8	6.3	7.4	7.8	5.1	6.1	3.8	3.9
	Tanah Rata	MY 11030	2.3	3.1	3.1	3.3	2.3	1.8	1.1	1.0
	Danum Valley	MY 11053						1.4	1.3	0.5
Mongolia	Ulaanbaatar	MN 11031	37.7	47.4	49.9	26.5	43.2	49.8	45.9	41.2
	Terelj	MN 11032	15.2	15.0	27.3	10.7	16.2	13.6	24.8	13.6
Myanmar	Yangon	MM 11056								***
Philippines	Metro Manila	PH 11033	14.5	71.6	8.7	8.8	11.1	10.6	13.7	10.4
	Los Banos	PH 11034	7.0	65.3	7.2	7.8	5.4	3.5	6.9	5.2
	Mt. Sto. Tomas	PH 11055							5.6	23.4
Republic of Korea	Kanghwa	KR 11035	26.5	14.0	11.1	11.3	14.0	11.1	15.8	12.4
	Cheju (Kosan)	KR 11036	13.8	5.9	9.4	8.1	7.7	11.3	9.0	10.6
	Imsil	KR 11037		5.8	9.8	5.4	6.8	5.0	14.7	13.7
Russia	Mondy	RU 11038	5.8	7.0	8.5	3.8	5.3	4.2	5.5	6.9
	Listvyanka	RU 11039	12.8	7.3	11.4	14.3	14.1	8.2	8.8	9.0
	Irkutsk	RU 11040	28.0	34.8	31.5	23.9	21.9	21.6	29.9	26.5
	Primorskaya	RU 11041			18.1	25.3	21.5	21.1	25.0	14.0
Thailand	Bangkok	TH 11042	11.4	12.0	15.7	11.9	11.0	18.6	18.4	13.6
	Samutprakarn	TH 11043	11.1				7.8	9.7	14.8	11.0
	Patumthani	TH 11044	13.2	13.0	17.4	6.3	11.4	8.5	12.8	8.5
	Khanchanaburi	TH 11045	4.8	9.0	4.9	8.4	4.8	2.5	2.7	3.0
	Chiang Mai (Mae Hia)	TH 11046		6.9	18.0	5.7	4.8	3.8	4.7	8.0
	Nakhon Ratchasima	TH 11054							9.5	3.7
Viet Nam	Hanoi	VN 11047	20.9	10.7	16.8	17.8	25.0	26.1	35.2	18.1
	Hoa Binh	VN 11048	13.1	10.4	12.6	12.0	19.9	14.3	17.8	9.3

[***]: 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 nss-Ca²⁺

unit: µmol/L										
Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	<i>KH 11052</i>					***	***	9.1	19.1
China	Guanyinqiac	<i>CN 11001</i>	62.8	137	65.3	65.3	110	156	143	75.1
	Nanshan	<i>CN 11002</i>	55.0							
	Jinyunshar	<i>CN 11003</i>		44.7	29.6	30.6	70.2	57.4	98.2	55.0
	Shizhan	<i>CN 11004</i>	228	672	474	257	147	107	300	116
	Weishuiyuar	<i>CN 11005</i>	303	1150	612	238	189	90.6	328	
	Dabagou	<i>CN 11006</i>	123							
	Jiwozi	<i>CN 11007</i>		425	273	227	87.4	128	220	345
	Hongwen	<i>CN 11008</i>	6.3	36.1	47.9	30.0	82.6	36.3	24.8	54.4
	Xiaoping	<i>CN 11009</i>	0.6	4.9	10.3	16.8	6.1	10.4	10.0	16.4
	Xiang Zhou	<i>CN 11010</i>	20.3	7.4	14.6	21.9	16.4	6.5	13.3	4.3
	Zhuxian Caver	<i>CN 11011</i>	24.3	13.7	19.7	19.4	22.7	15.7	16.7	***
Indonesia	Jakarta	<i>ID 11012</i>	86.4	63.5	42.2	101	50.2	16.9	18.5	13.6
	Serpong	<i>ID 11014</i>	***	13.1	9.4	6.4	10.1	11.7	7.0	7.2
	Kototabang	<i>ID 11013</i>	***	1.4	4.8	5.3	6.7	3.3	5.1	4.5
	Bandung	<i>ID 11015</i>	***	23.7	16.9	10.7	18.0	15.4	14.4	9.4
Japan	Rishiri	<i>JP 11016</i>	6.7	5.5	5.9	4.0	3.7	3.3	3.0	2.8
	Ochiishi	<i>JP 11050</i>				1.6	4.5	4.4	4.3	3.0
	Tappi	<i>JP 11017</i>	3.2	3.0	5.5	3.9	3.5	6.1	6.5	6.0
	Sado-seki	<i>JP 11019</i>	6.2	8.3	3.4	3.1	1.9	3.9	7.3	6.9
	Happo	<i>JP 11021</i>	3.7	4.2	1.9	1.8	2.2	4.0	6.2	2.8
	Ijira	<i>JP 11022</i>	6.3	5.0	3.6	2.6	1.9	2.5	2.7	3.2
	Oki	<i>JP 11023</i>	7.5	6.1	3.9	2.9	5.5	5.5	6.9	7.7
	Banryu	<i>JP 11024</i>	3.7	4.3	3.7	1.7	2.9	3.9	8.1	5.7
	Yusuhara	<i>JP 11025</i>	2.4	3.2	1.2	1.1	1.3	1.8	2.4	1.7
	Hedo	<i>JP 11027</i>	0.8	1.7	2.9	3.5	4.3	4.4	5.1	2.1
	Ogasawara	<i>JP 11018</i>	2.1	3.2	3.6	2.6	1.0	0.6	1.4	1.5
	Tokyo	<i>JP 11057</i>								4.2
Lao PDR	Vientiane	<i>LA 11051</i>				***	***	***	8.6	3.0
Malaysia	Petaling Jaya	<i>MY 11029</i>	6.7	6.2	7.3	7.7	4.9	5.9	3.7	3.9
	Tanah Rata	<i>MY 11030</i>	2.2	3.1	3.0	3.3	2.3	1.7	1.1	1.0
	Danum Valley	<i>MY 11053</i>						1.3	1.2	0.5
Mongolia	Ulaanbaatar	<i>MN 11031</i>	37.6	47.2	49.8	26.4	43.0	49.6	45.7	41.1
	Terelj	<i>MN 11032</i>	15.1	14.6	26.3	10.6	16.1	13.3	24.5	13.4
Myanmar	Yangon	<i>MM 11056</i>								***
Philippines	Metro Manila	<i>PH 11033</i>	13.9	67.2	8.4	8.4	10.8	10.3	13.3	10.0
	Los Banos	<i>PH 11034</i>	6.2	64.5	6.8	7.5	5.1	3.2	6.4	4.8
	Mt. Sto. Tomas	<i>PH 11055</i>							5.6	23.3
Republic of Korea	Kanghwa	<i>KR 11035</i>	25.3	13.1	10.0	10.8	13.3	10.3	15.2	11.5
	Cheju (Kosan)	<i>KR 11036</i>	10.5	4.3	8.1	7.1	6.5	9.4	7.2	8.4
	Imsil	<i>KR 11037</i>		5.5	9.0	4.9	6.4	4.5	14.0	13.3
Russia	Mondy	<i>RU 11038</i>	5.7	6.9	8.5	3.8	5.3	4.1	5.4	6.8
	Listvyanka	<i>RU 11039</i>	12.7	7.2	11.3	14.1	14.0	8.2	8.8	9.0
	Irkutsk	<i>RU 11040</i>	27.8	34.6	31.3	23.7	21.7	21.4	29.7	26.3
	Primorskaya	<i>RU 11041</i>			17.6	24.6	21.0	20.7	24.7	13.5
Thailand	Bangkok	<i>TH 11042</i>	11.2	11.8	15.4	11.7	10.7	18.4	18.2	13.5
	Samutprakarn	<i>TH 11043</i>	10.8				7.5	9.3	14.5	10.7
	Patumthani	<i>TH 11044</i>	12.9	12.8	17.2	6.2	11.2	8.3	12.7	8.4
	Khanchanabur	<i>TH 11045</i>	4.6	8.8	4.7	8.2	4.6	2.3	2.6	2.9
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		6.9	17.8	5.6	4.7	3.7	4.7	8.0
	Nakhon Ratchasima	<i>TH 11054</i>							9.4	3.7
Viet Nam	Hanoi	<i>VN 11047</i>	20.5	10.4	16.7	17.6	24.8	25.7	35.0	17.9
	Hoa Binh	<i>VN 11048</i>	12.8	10.2	12.6	11.9	19.8	14.1	17.7	9.3

[***]: 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 Mg²⁺

unit: µmol/L										
Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	KH 11052					<0.4	***	0.7	3.3
China	Guanyinqiac	CN 11001	8.5	11.6	6.0	4.5	9.1	12.7	12.6	8.0
	Nanshan	CN 11002	7.0							
	Jinyunshar	CN 11003		5.8	3.4	2.9	3.5	3.2	4.0	2.8
	Shizhan	CN 11004	23.6	48.5	67.9	33.5	15.3	13.2	28.3	21.4
	Weishuiyuar	CN 11005	31.7	88.4	91.1	40.0	19.3	10.9	42.0	
	Dabagou	CN 11006	14.6							
	Jiwozi	CN 11007		41.1	50.1	33.9	16.6	30.9	40.6	48.8
	Hongwen	CN 11008	4.2	6.3	9.6	6.0	11.4	9.0	5.4	6.2
	Xiaoping	CN 11009	1.3	2.5	1.6	4.0	1.4	1.1	2.8	2.1
	Xiang Zhou	CN 11010	6.9	2.9	5.5	7.1	6.3	6.9	12.0	2.4
	Zhuxian Caver	CN 11011	7.9	3.3	7.1	7.4	8.5	9.1	5.0	***
Indonesia	Jakarta	ID 11012	219	69.0	13.1	12.7	6.3	3.6	8.6	2.2
	Serpong	ID 11014	***	3.5	4.5	2.7	4.0	3.7	1.7	2.6
	Kototabang	ID 11013	***	1.0	2.6	6.8	1.8	0.9	2.3	3.8
	Bandung	ID 11015	***	4.1	1.6	1.7	3.3	2.5	3.3	1.7
Japan	Rishiri	JP 11016	36.3	24.8	22.3	20.3	26.4	23.3	12.6	17.0
	Ochiishi	JP 11050				22.1	42.2	22.2	31.2	21.5
	Tappi	JP 11017	17.5	15.5	19.6	16.8	23.4	24.2	33.3	26.4
	Sado-seki	JP 11019	29.0	40.5	30.7	11.3	15.6	33.0	25.9	26.1
	Happo	JP 11021	1.7	1.6	0.9	1.2	1.3	1.2	1.0	0.7
	Ijira	JP 11022	2.9	4.0	3.5	2.2	2.8	1.8	1.6	2.8
	Okii	JP 11023	45.0	36.6	40.6	21.2	34.4	69.9	26.9	31.7
	Banryu	JP 11024	3.3	9.1	9.3	9.3	13.2	10.8	8.3	9.9
	Yusuhara	JP 11025	2.2	1.8	3.6	1.8	2.9	3.0	1.7	1.8
	Hedo	JP 11027	50.0	16.9	59.0	49.3	91.0	47.3	21.8	14.8
	Ogasawara	JP 11018	19.2	13.3	32.4	31.1	13.0	10.7	11.4	15.0
	Tokyo	JP 11057								4.2
Lao PDR	Vientiane	LA 11051				***	***	***	3.5	0.7
Malaysia	Petaling Jaya	MY 11029	1.4	1.3	1.4	0.7	0.9	0.8	0.7	<0.4
	Tanah Rata	MY 11030	0.4	0.4	0.4	0.5	<0.4	0.5	<0.4	<0.4
	Danum Valley	MY 11053						<0.4	0.5	0.4
Mongolia	Ulaanbaatar	MN 11031	4.1	5.4	3.6	3.7	5.9	5.2	4.4	4.7
	Terej	MN 11032	3.2	2.5	4.1	2.3	5.2	3.7	4.8	2.1
Myanmar	Yangon	MM 11056								***
Philippines	Metro Manila	PH 11033	6.3	15.0	3.3	3.0	4.4	2.5	5.5	4.1
	Los Banos	PH 11034	3.7	11.1	2.9	2.6	3.6	2.3	3.4	3.5
	Mt. Sto. Tomas	PH 11055							1.0	2.1
Republic of Korea	Kanghwa	KR 11035	9.3	5.3	6.3	2.9	5.5	6.2	5.1	6.7
	Cheju (Kosan)	KR 11036	18.6	10.0	7.5	5.9	7.3	15.0	9.6	7.3
	Imsil	KR 11037		1.9	3.3	1.6	2.4	1.8	4.0	3.6
Russia	Mondy	RU 11038	1.1	1.5	2.2	0.8	1.3	1.0	1.0	1.8
	Listvyanka	RU 11039	2.9	1.8	3.0	3.6	3.2	1.6	1.7	1.9
	Irkutsk	RU 11040	5.0	5.5	5.7	4.3	4.8	5.1	5.8	6.3
	Primorskaya	RU 11041			5.7	11.2	7.0	5.7	5.5	4.3
Thailand	Bangkok	TH 11042	2.0	3.2	3.5	2.3	2.1	3.8	2.3	1.7
	Samutprakarn	TH 11043	2.4				1.9	3.4	4.6	2.7
	Patumthani	TH 11044	2.4	2.2	2.8	1.1	1.6	1.3	1.8	1.3
	Khanchanaburi	TH 11045	1.7	2.5	1.7	2.2	1.6	1.1	1.0	1.0
	Chiang Mai (Mae Hia)	TH 11046		1.1	3.5	2.1	1.8	1.0	2.4	1.2
	Nakhon Ratchasima	TH 11054							2.0	1.8
Viet Nam	Hanoi	VN 11047	5.0	4.0	3.0	3.6	3.8	8.6	8.6	4.2
	Hoa Binh	VN 11048	4.7	3.7	1.4	2.1	2.5	4.2	5.3	2.8

[***]: 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 3.70 Volume-weighted annual mean concentrations of H⁺

unit: µmol/L										
Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	KH 11052					4.8	0.5	0.2	0.2
China	Guanyinqiac	CN 11001	46.7	16.1	25.2	32.2	25.9	11.2	13.7	22.6
	Nanshan	CN 11002	60.5							
	Jinyunshar	CN 11003		65.4	43.6	50.3	25.9	23.7	20.4	30.0
	Shizhan	CN 11004	2.1	0.4	0.6	1.0	0.5	3.9	2.8	3.0
	Weishuiyuar	CN 11005	0.4	0.5	0.9	0.8	1.1	7.0	1.5	
	Dabagou	CN 11006	3.8							
	Jiwozi	CN 11007		0.6	1.0	0.9	0.8	0.6	1.4	0.1
	Hongwen	CN 11008	19.1	29.6	16.2	34.4	19.4	19.9	14.7	16.2
	Xiaoping	CN 11009	12.2	12.6	33.6	41.4	24.6	16.5	16.5	25.4
	Xiang Zhou	CN 11010	7.0	11.4	7.8	7.9	16.5	27.3	13.4	23.3
	Zhuxian Caver	CN 11011	23.0	16.7	12.8	7.9	23.2	24.4	15.0	***
Indonesia	Jakarta	ID 11012	6.6	3.8	16.9	7.0	20.4	49.1	41.5	27.5
	Serpong	ID 11014	***	23.7	22.6	24.1	20.8	25.6	25.0	25.8
	Kototabang	ID 11013	31.2	8.5	4.9	5.0	18.5	20.9	29.4	5.3
	Bandung	ID 11015	***	10.1	34.9	10.0	9.3	9.3	7.0	11.8
Japan	Rishiri	JP 11016	15.7	16.8	15.0	13.3	14.4	18.4	21.5	26.3
	Ochiishi	JP 11050				12.2	20.7	14.6	13.8	16.7
	Tappi	JP 11017	19.0	23.0	20.9	27.0	25.4	24.9	26.5	23.8
	Sado-seki	JP 11019	26.9	23.2	22.7	21.5	19.7	27.6	19.7	31.4
	Happo	JP 11021	18.6	14.6	11.8	12.4	13.9	15.9	10.7	16.2
	Ijira	JP 11022	30.1	37.1	30.4	38.7	22.1	30.9	31.0	29.3
	Oki	JP 11023	22.8	17.0	18.6	17.5	15.9	27.4	18.7	23.1
	Banryu	JP 11024	22.9	21.9	20.4	23.3	19.9	32.7	20.5	32.3
	Yusuhara	JP 11025	19.5	14.9	17.4	18.4	10.6	22.8	14.4	15.3
	Hedo	JP 11027	7.4	10.9	11.3	12.5	16.5	14.7	10.1	10.2
	Ogasawara	JP 11018	5.9	8.1	8.2	9.1	7.5	15.4	10.1	9.4
	Tokyo	JP 11057								16.3
Lao PDR	Vientiane	LA 11051				0.3	2.3	0.5	0.3	2.2
Malaysia	Petaling Jaya	MY 11029	44.9	56.0	58.8	52.1	47.3	43.1	37.8	27.6
	Tanah Rata	MY 11030	16.1	12.7	10.8	12.7	13.7	14.3	11.3	11.1
	Danum Valley	MY 11053						10.5	8.9	8.0
Mongolia	Ulaanbaatar	MN 11031	0.5	0.6	0.4	1.9	0.3	1.0	0.4	0.5
	Terelj	MN 11032	3.0	0.9	1.8	4.0	1.6	5.4	6.9	6.0
Myanmar	Yangon	MM 11056								2.7
Philippines	Metro Manila	PH 11033	3.3	3.9	8.1	36.2	6.6	11.3	5.0	5.3
	Los Banos	PH 11034	3.6	3.0	1.8	32.5	5.5	7.3	2.4	2.9
	Mt. Sto. Tomas	PH 11055							0.5	3.0
Republic of Korea	Kanghwa	KR 11035	10.0	10.2	22.2	21.3	27.2	56.9	21.0	24.0
	Cheju (Kosan)	KR 11036	14.1	12.9	24.3	15.0	18.2	28.5	45.9	30.7
	Imsil	KR 11037		8.0	2.0	8.3	11.8	1.0	6.5	1.9
Russia	Mondy	RU 11038	5.5	3.1	4.1	4.5	4.6	4.3	4.1	3.0
	Listvyanka	RU 11039	8.6	11.0	13.2	9.7	12.1	14.7	22.8	21.6
	Irkutsk	RU 11040	7.8	5.3	9.4	4.2	12.2	7.6	7.0	11.7
	Primorskaya	RU 11041			6.3	13.2	14.5	8.7	15.0	14.5
Thailand	Bangkok	TH 11042	11.1	10.7	7.9	29.5	6.5	12.7	6.9	9.0
	Samutprakarn	TH 11043	14.8				3.4	3.4	1.4	2.5
	Patumthani	TH 11044	5.7	7.4	4.6	13.7	13.6	12.9	13.0	15.6
	Khanchanabur	TH 11045	2.7	5.5	2.3	3.5	0.8	2.9	1.8	1.7
	Chiang Mai (Mae Hia)	TH 11046		1.9	1.9	2.5	2.5	5.9	2.0	1.1
	Nakhon Ratchasima	TH 11054							7.6	8.3
Viet Nam	Hanoi	VN 11047	3.6	1.5	2.8	1.5	2.3	0.7	1.8	2.6
	Hoa Binh	VN 11048	7.8	9.1	6.5	4.2	2.5	2.0	2.6	8.7

[***]: 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 3.71 Volume-weighted annual mean pH

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	KH 11052					5.32	6.32	6.72	6.69
China	Guanyinqiac	CN 11001	4.33	4.79	4.60	4.49	4.59	4.95	4.86	4.65
	Nanshan	CN 11002	4.22							
	Jinyunshar	CN 11003		4.18	4.36	4.30	4.59	4.62	4.69	4.52
	Shizhan	CN 11004	5.68	6.38	6.24	6.00	6.30	5.41	5.56	5.52
	Weishuiyuar	CN 11005	6.42	6.32	6.03	6.11	5.98	5.15	5.84	
	Dabagou	CN 11006	5.42							
	Jiwozi	CN 11007		6.24	6.00	6.05	6.11	6.20	5.87	6.85
	Hongwen	CN 11008	4.72	4.53	4.79	4.46	4.71	4.70	4.83	4.79
	Xiaoping	CN 11009	4.91	4.90	4.47	4.38	4.61	4.78	4.78	4.60
	Xiang Zhou	CN 11010	5.15	4.94	5.11	5.10	4.78	4.56	4.87	4.63
	Zhuxian Caver	CN 11011	4.64	4.78	4.89	5.10	4.63	4.61	4.82	***
Indonesia	Jakarta	ID 11012	5.18	5.42	4.77	5.16	4.69	4.31	4.38	4.56
	Serpong	ID 11014	***	4.63	4.65	4.62	4.68	4.59	4.60	4.59
	Kototabang	ID 11013	4.51	5.07	5.31	5.30	4.73	4.68	4.53	5.27
	Bandung	ID 11015	***	4.99	4.46	5.00	5.03	5.03	5.15	4.93
Japan	Rishiri	JP 11016	4.80	4.77	4.82	4.88	4.84	4.74	4.67	4.58
	Ochiishi	JP 11050				4.91	4.68	4.84	4.86	4.78
	Tappi	JP 11017	4.72	4.64	4.68	4.57	4.59	4.60	4.58	4.62
	Sado-seki	JP 11019	4.57	4.63	4.64	4.67	4.70	4.56	4.70	4.50
	Happo	JP 11021	4.73	4.84	4.93	4.91	4.86	4.80	4.97	4.79
	Ijira	JP 11022	4.52	4.43	4.52	4.41	4.65	4.51	4.51	4.53
	Oki	JP 11023	4.64	4.77	4.73	4.76	4.80	4.56	4.73	4.64
	Banryu	JP 11024	4.64	4.66	4.69	4.63	4.70	4.49	4.69	4.49
	Yusuhara	JP 11025	4.71	4.83	4.76	4.73	4.97	4.64	4.84	4.81
	Hedo	JP 11027	5.13	4.96	4.95	4.90	4.78	4.83	4.99	4.99
	Ogasawara	JP 11018	5.23	5.09	5.09	5.04	5.13	4.81	4.99	5.03
	Tokyo	JP 11057								4.79
Lao PDR	Vientiane	LA 11051				6.51	5.65	6.32	6.49	5.67
Malaysia	Petaling Jaya	MY 11029	4.35	4.25	4.23	4.28	4.33	4.37	4.42	4.56
	Tanah Rata	MY 11030	4.79	4.90	4.97	4.90	4.86	4.84	4.95	4.95
	Danum Valley	MY 11053						4.98	5.05	5.10
Mongolia	Ulaanbaatar	MN 11031	6.26	6.19	6.38	5.72	6.46	5.99	6.45	6.26
	Terej	MN 11032	5.52	6.04	5.75	5.40	5.78	5.26	5.16	5.22
Myanmar	Yangon	MM 11056								5.57
Philippines	Metro Manila	PH 11033	5.48	5.41	5.09	4.44	5.18	4.95	5.30	5.27
	Los Banos	PH 11034	5.44	5.53	5.74	4.49	5.26	5.14	5.61	5.54
	Mt. Sto. Tomas	PH 11055							6.32	5.53
Republic of Korea	Kanghwa	KR 11035	5.00	4.99	4.65	4.67	4.57	4.25	4.68	4.62
	Cheju (Kosan)	KR 11036	4.85	4.89	4.61	4.83	4.74	4.55	4.34	4.51
	Imsil	KR 11037		5.09	5.69	5.08	4.93	6.00	5.19	5.73
Russia	Mondy	RU 11038	5.26	5.50	5.39	5.35	5.34	5.36	5.39	5.52
	Listvyanka	RU 11039	5.07	4.96	4.88	5.01	4.92	4.83	4.64	4.67
	Irkutsk	RU 11040	5.11	5.28	5.02	5.37	4.91	5.12	5.15	4.93
	Primorskaya	RU 11041			5.20	4.88	4.84	5.06	4.83	4.84
Thailand	Bangkok	TH 11042	4.95	4.97	5.10	4.53	5.19	4.89	5.16	5.05
	Samutprakarn	TH 11043	4.83				5.47	5.47	5.87	5.61
	Patumthani	TH 11044	5.25	5.13	5.33	4.86	4.87	4.89	4.89	4.81
	Khanchanaburi	TH 11045	5.56	5.26	5.64	5.46	6.07	5.54	5.75	5.78
	Chiang Mai (Mae Hia)	TH 11046		5.71	5.72	5.61	5.59	5.23	5.70	5.95
	Nakhon Ratchasima	TH 11054							5.12	5.08
Viet Nam	Hanoi	VN 11047	5.45	5.83	5.55	5.81	5.65	6.15	5.73	5.58
	Hoa Binh	VN 11048	5.11	5.04	5.19	5.38	5.60	5.69	5.59	5.06

[***]: 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 EC

unit: mS/m

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	KH 11052					1.17	0.81	1.17	1.37
China	Guanyinqiao	CN 11001	5.61	7.00	4.36	4.89	5.82	6.70	6.70	5.01
	Nanshan	CN 11002	5.20							
	Jinyunshan	CN 11003		6.23	3.69	4.19	4.35	4.23	5.45	3.76
	Shizhan	CN 11004	11.4	19.5	16.1	7.50	6.47	5.18	9.81	7.21
	Weishuiyuan	CN 11005	15.1	27.7	21.7	7.80	8.55	4.61	13.4	
	Dabagou	CN 11006	7.71							
	Jiwozi	CN 11007		9.65	4.02	5.19	2.91	5.82	6.95	10.3
	Hongwen	CN 11008	1.66	3.87	2.64	2.88	3.41	2.63	2.31	2.68
	Xiaoping	CN 11009	0.88	1.44	1.60	2.15	1.97	1.91	2.19	2.01
	Xiang Zhou	CN 11010	2.05	1.95	3.20	2.19	2.37	2.41	2.20	1.99
	Zhuxian Cavern	CN 11011	3.04	2.08	3.63	2.42	3.15	2.49	2.67	***
Indonesia	Jakarta	ID 11012	5.06	26.4	2.97	4.78	3.69	3.37	1.92	2.23
	Serpong	ID 11014	***	2.94	1.87	2.26	2.25	2.63	2.10	2.14
	Kototabang	ID 11013	1.00	0.43	4.94	1.96	1.11	0.84	0.88	0.82
	Bandung	ID 11015	3.37	2.08	1.68	1.50	1.80	1.75	1.69	1.64
Japan	Rishiri	JP 11016	6.37	4.51	4.23	3.80	4.72	4.46	3.04	3.72
	Ochiishi	JP 11050				3.45	6.72	4.01	5.00	3.69
	Tappi	JP 11017	3.69	3.52	3.89	3.74	4.57	4.18	5.98	4.92
	Sado-seki	JP 11019	4.76	5.64	4.99	2.65	3.10	5.05	3.81	4.92
	Happo	JP 11021	1.22	0.96	0.67	0.69	0.91	1.10	0.84	1.08
	Ijira	JP 11022	2.11	2.44	2.18	2.12	1.62	2.11	2.15	2.05
	Okii	JP 11023	7.28	5.90	6.59	3.82	5.86	11.3	4.77	5.91
	Banryu	JP 11024	1.82	2.52	2.56	2.56	3.02	3.50	2.54	3.36
	Yusuhara	JP 11025	1.17	0.98	1.42	1.16	1.03	1.59	1.08	1.06
	Hedo	JP 11027	7.21	2.95	8.85	7.10	14.2	7.10	3.58	2.54
	Ogasawara	JP 11018	2.59	2.20	3.95	4.31	2.29	2.33	2.14	2.59
	Tokyo	JP 11057								1.80
Lao PDR	Vientiane	LA 11051				2.07	2.65	1.01	0.76	0.40
Malaysia	Petaling Jaya	MY 11029	2.08	2.13	2.81	2.32	2.26	2.12	1.81	1.40
	Tanah Rata	MY 11030	0.73	0.54	0.59	0.61	0.76	0.68	0.51	0.51
	Danum Valley	MY 11053						0.56	0.46	0.35
Mongolia	Ulaanbaatar	MN 11031	1.79	1.91	2.20	1.56	1.68	1.87	1.92	2.18
	Terelj	MN 11032	1.28	0.93	1.93	1.05	1.12	1.18	1.95	2.02
Myanmar	Yangon	MM 11056								0.60
Philippines	Metro Manila	PH 11033	2.20	6.49	1.85	1.36	1.48	1.66	1.66	1.40
	Los Banos	PH 11034	1.13	2.08	1.22	1.99	0.80	1.01	1.08	0.86
	Mt. Sto. Tomas	PH 11055							0.22	1.03
Republic of Korea	Kanghwa	KR 11035	2.50	1.98	2.68	2.54	3.25	4.14	2.75	3.49
	Cheju (Kosan)	KR 11036	3.37	2.56	3.03	2.22	2.45	3.43	3.64	3.43
	Imsil	KR 11037		1.31	1.80	1.42	1.42	1.72	2.51	1.58
Russia	Mondy	RU 11038	0.58	0.68	0.96	0.59	0.54	0.49	0.43	0.80
	Listvyanka	RU 11039	1.04	0.95	1.39	1.36	1.30	1.19	1.51	1.38
	Irkutsk	RU 11040	1.71	1.79	2.10	1.67	1.80	1.66	1.76	2.02
	Primorskaya	RU 11041			1.77	2.66	2.20	2.03	2.47	1.90
Thailand	Bangkok	TH 11042	1.64	1.50	1.32	1.67	1.25	1.66	1.94	1.41
	Samutprakarn	TH 11043	1.52				1.01	1.30	1.56	1.34
	Patumthani	TH 11044	1.48	1.80	1.07	1.24	1.47	1.31	1.42	1.50
	Khanchanaburi	TH 11045	0.52	0.56	0.51	0.35	0.41	0.32	0.46	0.29
	Chiang Mai (Mae Hia)	TH 11046		0.88	0.48	0.46	0.49	0.81	0.59	0.63
	Nakhon Ratchasima	TH 11054							0.92	0.78
Viet Nam	Hanoi	VN 11047	1.55	0.92	1.52	1.70	1.85	2.75	2.18	1.57
	Hoa Binh	VN 11048	1.15	1.04	1.06	1.12	1.48	1.15	1.22	1.08

[***]: 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 3.73 Annual SO₄²⁻ depositionunit: mmol m⁻² y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	KH 11052					***	7.43	5.04	30.9
China	Guanyinqiao	CN 11001	164	154	165	108	229	200	149	169
	Nanshan	CN 11002	164							
	Jinyunshan	CN 11003		87.7	126	103	166	149	169	149
	Shizhan	CN 11004	199	171	297	258	104	63.9	132	96.7
	Weishuiyuan	CN 11005	241	105	234	186	94.2	47.1	104	
	Dabagou	CN 11006	117							
	Jiwozi	CN 11007		68.0	43.2	55.3	56.3	42.8	30.0	18.2
	Hongwen	CN 11008	30.7	16.7	67.0	48.0	73.6	80.4	61.1	102
	Xiaoping	CN 11009	22.8	49.1	36.3	41.7	53.3	59.0	39.7	29.2
	Xiang Zhou	CN 11010	45.5	31.2	48.3	35.3	25.0	28.0	44.6	31.2
	Zhuxian Cavern	CN 11011	85.4	49.5	50.6	32.4	34.3	31.3	17.1	***
Indonesia	Jakarta	ID 11012	92.7	77.5	60.5	108	71.4	85.6	38.7	60.6
	Serpong	ID 11014	***	61.4	64.3	49.5	41.0	27.5	45.2	61.5
	Kototabang	ID 11013	8.65	5.66	13.4	28.7	11.0	12.1	9.55	19.4
	Bandung	ID 11015	60.2	87.8	70.4	32.8	24.8	61.7	35.1	52.0
Japan	Rishiri	JP 11016	30.0	19.1	26.1	16.6	27.0	26.8	29.6	24.9
	Ochiishi	JP 11050				14.9	22.3	18.6	27.6	18.4
	Tappi	JP 11017	22.9	24.7	30.2	25.1	38.6	36.8	34.5	31.2
	Sado-seki	JP 11019	36.8	39.8	40.4	18.6	27.2	39.1	35.7	40.6
	Happo	JP 11021	29.2	27.4	19.8	18.5	28.2	35.8	28.4	28.4
	Ijira	JP 11022	53.3	49.1	52.2	56.7	48.0	48.5	58.3	43.0
	Oki	JP 11023	49.0	42.1	55.4	34.3	41.3	73.2	41.1	42.1
	Banryu	JP 11024	24.4	33.9	24.8	30.5	34.4	34.6	43.1	35.5
	Yusuhara	JP 11025	31.0	19.0	26.2	26.5	26.7	28.0	31.9	22.5
	Hedo	JP 11027	93.6	33.9	75.0	49.0	137	64.1	35.8	38.8
	Ogasawara	JP 11018	22.6	20.7	24.1	25.2	12.5	26.9	16.2	19.9
	Tokyo	JP 11057								18.4
Lao PDR	Vientiane	LA 11051				***	***	***	2.45	6.54
Malaysia	Petaling Jaya	MY 11029	80.4	68.4	63.1	63.9	54.5	66.4	82.5	41.8
	Tanah Rata	MY 11030	12.9	9.79	12.8	11.4	9.74	16.1	12.3	10.4
	Danum Valley	MY 11053						5.53	10.2	6.85
Mongolia	Ulaanbaatar	MN 11031	4.78	4.17	4.41	5.80	1.84	4.01	4.78	4.67
	Terelj	MN 11032	3.41	0.86	3.72	2.57	2.75	4.29	5.10	4.63
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
	Los Banos	PH 11034	27.7	28.4	27.3	11.4	14.7	16.2	23.9	26.0
	Mt. Sto. Tomas	PH 11055							0.59	19.4
Republic of Korea	Kanghwa	KR 11035	35.3	28.5	28.4	41.1	39.3	37.9	40.3	36.4
	Cheju (Kosan)	KR 11036	24.5	23.0	28.5	29.3	26.8	24.0	31.6	47.1
	Imsil	KR 11037		21.3	22.7	30.6	19.9	28.4	19.0	38.8
Russia	Mondy	RU 11038	2.19	3.51	2.20	3.48	2.46	1.54	1.93	3.26
	Listvyanka	RU 11039	6.79	6.60	6.56	10.3	10.6	7.80	5.90	6.99
	Irkutsk	RU 11040	16.1	13.9	10.3	12.0	14.7	12.3	9.28	16.0
	Primorskaya	RU 11041			24.2	13.9	25.7	28.2	28.6	30.4
Thailand	Bangkok	TH 11042	24.8	21.3	24.2	25.6	19.8	39.1	35.5	27.2
	Samutprakarn	TH 11043	25.0				20.7	31.1	29.4	27.7
	Patumthani	TH 11044	18.7	23.2	14.2	20.5	17.1	16.7	21.6	16.6
	Khanchanaburi	TH 11045	3.21	7.91	12.4	5.78	4.71	5.72	10.2	4.20
	Chiang Mai (Mae Hia)	TH 11046		3.02	6.57	3.34	7.95	8.43	6.44	5.62
	Nakhon Ratchasima	TH 11054							9.80	8.93
Viet Nam	Hanoi	VN 11047	37.9	31.5	47.8	47.7	58.3	90.6	57.7	55.8
	Hoa Binh	VN 11048	30.8	32.6	30.5	38.0	53.9	40.6	38.5	33.1

[***]: 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 3.74 Annual nss-SO₄²⁻ deposition

unit: mmol m⁻² y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	KH 11052					***	***	4.82	30.2
China	Guanyinqiao	CN 11001	163	154	164	108	228	200	149	169
	Nanshan	CN 11002	164							
	Jinyunshan	CN 11003		87.3	125	102	165	148	168	148
	Shizhan	CN 11004	198	167	291	253	103	63.4	131	96.2
	Weishuiyuan	CN 11005	239	104	231	177	93.5	46.6	103	
	Dabagou	CN 11006	116							
	Jiwozi	CN 11007		66.0	41.7	51.6	54.7	41.5	29.1	17.7
	Hongwen	CN 11008	28.5	16.5	61.8	45.3	70.3	75.1	57.7	100
	Xiaoping	CN 11009	22.0	47.2	34.1	39.0	51.8	57.3	37.9	28.4
	Xiang Zhou	CN 11010	40.3	29.1	44.0	31.6	22.4	25.3	41.3	29.5
	Zhuxian Cavern	CN 11011	82.4	46.2	46.3	28.8	30.4	27.7	15.9	***
Indonesia	Jakarta	ID 11012	87.7	74.6	57.3	105	68.2	82.7	37.6	58.5
	Serpong	ID 11014	***	59.1	60.5	48.0	39.3	26.7	44.4	60.1
	Kototabang	ID 11013	***	5.33	12.7	26.9	9.66	11.3	9.08	17.9
	Bandung	ID 11015	***	84.6	69.1	32.1	24.2	60.5	33.7	51.2
Japan	Rishiri	JP 11016	14.9	11.2	14.9	9.1	13.9	15.0	21.0	17.4
	Ochiishi	JP 11050				5.84	8.33	8.28	11.3	8.73
	Tappi	JP 11017	13.5	16.0	17.1	15.4	21.0	20.6	17.8	16.6
	Sado-seki	JP 11019	20.2	18.9	18.8	12.3	14.7	19.2	18.7	24.7
	Happo	JP 11021	28.1	26.6	19.3	17.8	27.1	34.5	27.8	28.0
	Ijira	JP 11022	50.1	45.1	47.6	54.3	43.6	46.3	56.5	40.1
	Oki	JP 11023	20.4	18.4	21.2	16.4	16.8	25.3	22.0	22.8
	Banryu	JP 11024	21.7	25.5	18.6	22.0	22.5	27.5	35.3	29.5
	Yusuhara	JP 11025	28.4	17.6	22.1	24.0	20.9	24.5	29.7	20.6
	Hedo	JP 11027	17.1	13.8	15.1	15.7	43.4	23.1	14.7	17.8
	Ogasawara	JP 11018	6.22	9.23	5.25	5.71	4.02	15.0	6.58	7.6
	Tokyo	JP 11057								16.2
Lao PDR	Vientiane	LA 11051				***	***	***	2.15	6.34
Malaysia	Petaling Jaya	MY 11029	79.3	67.7	62.3	62.9	53.5	65.3	81.4	41.2
	Tanah Rata	MY 11030	12.5	9.49	12.6	11.1	9.48	14.9	12.1	10.2
	Danum Valley	MY 11053						5.19	9.23	6.11
Mongolia	Ulaanbaatar	MN 11031	4.69	4.08	4.34	5.73	1.81	3.95	4.68	4.63
	Terej	MN 11032	3.33	0.78	3.51	2.49	2.67	4.12	4.93	4.53
Myanmar	Yangon	MM 11056								***
Philippines	Metro Manila	PH 11033	87.0	52.0	75.6	35.2	41.9	54.8	44.6	73.9
	Los Banos	PH 11034	22.4	23.9	25.1	10.0	13.4	14.5	21.0	22.7
	Mt. Sto. Tomas	PH 11055							0.52	18.2
Republic of Korea	Kanghwa	KR 11035	31.6	25.6	26.0	38.6	37.6	36.3	38.5	34.0
	Cheju (Kosan)	KR 11036	14.8	18.0	24.9	25.6	22.9	20.4	25.9	39.5
	Imsil	KR 11037		20.1	20.4	28.0	18.6	26.8	17.6	37.5
Russia	Mondy	RU 11038	2.16	3.46	2.17	3.42	2.43	1.51	1.89	3.20
	Listvyanka	RU 11039	6.67	6.50	6.47	10.1	10.4	7.72	5.85	6.93
	Irkutsk	RU 11040	15.8	13.6	10.2	11.8	14.5	12.1	9.07	15.8
	Primorskaya	RU 11041			23.0	13.3	24.8	27.2	28.0	29.2
Thailand	Bangkok	TH 11042	24.4	20.7	22.9	24.9	19.1	37.6	34.6	26.5
	Samutprakarn	TH 11043	24.4				19.5	29.1	28.0	26.3
	Patumthani	TH 11044	18.1	22.5	13.7	20.1	16.6	16.2	20.8	16.1
	Khanchanaburi	TH 11045	2.72	6.89	11.2	4.81	3.96	4.89	9.24	3.48
	Chiang Mai (Mae Hia)	TH 11046		2.78	5.78	3.21	7.74	8.36	6.16	5.46
	Nakhon Ratchasima	TH 11054							9.48	8.56
Viet Nam	Hanoi	VN 11047	36.5	30.0	47.3	46.9	57.5	88.7	56.7	55.0
	Hoa Binh	VN 11048	29.4	31.3	30.3	37.8	53.5	39.6	38.1	32.7

[***]: 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 3.75 Annual NO₃⁻ deposition

unit: mmol m⁻² y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	KH 11052					3.22	***	8.59	11.3
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							
	Jinyunshan	CN 11003		28.6	47.3	42.5	55.9	50.2	55.2	51.8
	Shizhan	CN 11004	48.6	55.8	52.2	86.6	37.1	6.16	39.4	40.0
	Weishuiyuan	CN 11005	42.9	14.5	39.0	70.5	32.4	5.01	32.8	
	Dabagou	CN 11006	24.1							
	Jiwozi	CN 11007		29.3	12.7	26.2	26.9	3.37	11.9	6.68
	Hongwen	CN 11008	28.4	11.2	48.2	43.7	53.1	63.4	47.7	50.6
	Xiaoping	CN 11009	22.8	50.1	32.0	39.9	38.5	52.9	37.7	27.3
	Xiang Zhou	CN 11010	31.8	28.0	30.9	36.0	29.6	20.3	33.3	23.9
	Zhuxian Cavern	CN 11011	59.6	57.1	32.9	20.2	31.9	22.8	11.7	***
Indonesia	Jakarta	ID 11012	27.8	66.4	44.3	94.5	114	115	30.4	67.4
	Serpong	ID 11014	***	81.4	81.6	66.1	58.0	32.5	45.4	61.3
	Kototabang	ID 11013	14.4	3.32	10.1	154	9.94	3.46	1.74	9.88
	Bandung	ID 11015	30.7	70.0	66.7	32.7	25.2	33.5	30.3	42.4
Japan	Rishiri	JP 11016	13.9	11.1	12.9	8.65	11.0	12.1	18.2	13.8
	Ochiishi	JP 11050				6.22	8.78	7.65	11.3	8.29
	Tappi	JP 11017	13.5	16.5	22.5	19.4	24.0	22.5	21.7	22.8
	Sado-seki	JP 11019	19.5	21.6	21.4	15.7	17.3	21.3	23.9	30.0
	Happo	JP 11021	24.3	20.8	18.2	16.2	24.7	28.6	22.7	22.9
	Ijira	JP 11022	64.8	48.5	57.8	64.5	52.6	61.9	68.5	49.4
	Oki	JP 11023	22.4	19.5	23.7	20.7	24.0	28.7	25.4	27.6
	Banryu	JP 11024	21.7	31.1	25.0	27.9	27.0	32.8	38.3	37.1
	Yusuhara	JP 11025	19.7	14.2	19.8	19.7	20.9	21.8	23.9	17.1
	Hedo	JP 11027	16.7	14.0	19.3	13.2	23.8	19.6	15.1	17.3
	Ogasawara	JP 11018	4.73	6.67	3.61	6.55	4.30	6.58	7.57	7.64
	Tokyo	JP 11057								21.0
Lao PDR	Vientiane	LA 11051				***	***	***	4.92	9.65
Malaysia	Petaling Jaya	MY 11029	92.9	73.2	97.9	100	89.4	102	120	80.5
	Tanah Rata	MY 11030	10.4	8.90	16.7	14.1	11.1	17.4	14.9	12.4
	Danum Valley	MY 11053						3.14	4.24	2.02
Mongolia	Ulaanbaatar	MN 11031	3.91	3.43	4.23	4.62	1.32	2.83	3.50	3.27
	Terelj	MN 11032	3.65	0.81	4.45	3.87	3.34	2.89	3.32	3.39
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
	Los Banos	PH 11034	14.3	25.3	14.0	7.84	10.6	16.2	18.1	19.4
	Mt. Sto. Tomas	PH 11055							0.80	18.5
Republic of Korea	Kanghwa	KR 11035	47.4	32.6	27.0	42.9	36.1	36.5	36.1	34.5
	Cheju (Kosan)	KR 11036	16.2	20.5	24.4	29.7	27.9	19.2	28.8	18.7
	Imsil	KR 11037		20.2	31.8	31.7	24.8	32.9	19.6	24.4
Russia	Mondy	RU 11038	3.04	3.38	2.75	2.78	2.44	1.44	2.09	2.99
	Listvyanka	RU 11039	8.25	7.26	8.99	16.1	10.9	5.34	4.54	8.33
	Irkutsk	RU 11040	11.2	8.61	6.59	8.15	9.48	7.25	5.89	8.76
	Primorskaya	RU 11041			8.51	4.97	14.8	15.9	18.2	18.9
Thailand	Bangkok	TH 11042	24.8	21.0	32.0	31.9	19.3	46.6	52.4	44.1
	Samutprakarn	TH 11043	15.1				12.3	29.1	20.0	31.0
	Patumthani	TH 11044	17.8	26.5	17.6	28.4	23.4	24.8	35.4	31.4
	Khanchanaburi	TH 11045	5.06	10.2	13.3	7.96	6.65	5.11	15.5	5.01
	Chiang Mai (Mae Hia)	TH 11046		4.47	9.78	5.27	7.04	12.0	11.2	7.47
	Nakhon Ratchasima	TH 11054							13.5	15.7
Viet Nam	Hanoi	VN 11047	20.2	11.4	21.4	39.4	39.7	54.3	30.6	25.8
	Hoa Binh	VN 11048	18.3	19.5	32.8	22.6	36.4	29.5	25.0	20.4

[***]: 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 3.76 Annual Cl⁻ depositionunit: mmol m⁻² y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	KH 11052					***	8.12	5.88	17.4
China	Guanyinqiao	CN 11001	25.9	22.4	22.5	16.0	20.3	19.7	16.2	17.9
	Nanshan	CN 11002	19.7							
	Jinyunshan	CN 11003		40.3	20.8	12.6	19.5	22.6	16.2	14.3
	Shizhan	CN 11004	27.4	29.6	122	106	21.7	17.5	17.3	21.0
	Weishuiyuan	CN 11005	41.0	19.3	66.0	129	18.3	16.0	16.1	
	Dabagou	CN 11006	26.8							
	Jiwozi	CN 11007		20.7	26.2	42.8	15.1	13.9	7.77	4.41
	Hongwen	CN 11008	48.6	10.6	67.3	66.7	64.1	112	98.0	52.6
	Xiaoping	CN 11009	32.4	77.3	19.9	41.6	32.5	34.9	52.4	15.2
	Xiang Zhou	CN 11010	101	75.2	119	81.8	48.8	77.6	68.1	44.5
	Zhuxian Cavern	CN 11011	70.2	71.2	94.1	70.5	75.1	55.9	25.9	***
Indonesia	Jakarta	ID 11012	33.9	48.2	44.2	84.4	57.4	88.4	23.0	40.7
	Serpong	ID 11014	***	51.8	57.6	58.2	34.8	16.3	17.4	28.8
	Kototabang	ID 11013	15.8	7.97	30.1	87.0	24.8	15.6	9.74	38.2
	Bandung	ID 11015	93.7	65.1	51.5	20.9	15.6	25.5	18.6	14.8
Japan	Rishiri	JP 11016	286	145	207	142	242	224	163	142
	Ochiishi	JP 11050				178	266	191	316	189
	Tappi	JP 11017	187	169	253	178	341	310	314	276
	Sado-seki	JP 11019	292	367	439	121	236	385	324	298
	Happo	JP 11021	23.4	20.7	13.0	17.9	27.0	26.1	15.6	10.1
	Ijira	JP 11022	61.8	73.0	88.2	56.6	94.2	43.3	40.8	56.1
	Okii	JP 11023	543	448	658	321	453	914	353	362
	Banryu	JP 11024	48.5	154.6	115.9	162	232	142	149	114
	Yusuhara	JP 11025	52.4	25.6	74.6	45.4	112	69.4	44.4	38.5
	Hedo	JP 11027	1500	373	1200	628	1750	869	404	394
	Ogasawara	JP 11018	325	222	370	400	162	235	188	241
	Tokyo	JP 11057								44.4
Lao PDR	Vientiane	LA 11051				***	***	***	3.38	10.4
Malaysia	Petaling Jaya	MY 11029	29.1	23.2	19.5	28.1	22.2	25.0	27.8	17.2
	Tanah Rata	MY 11030	21.3	7.87	6.29	7.19	5.86	7.61	5.85	5.05
	Danum Valley	MY 11053						7.54	21.5	14.6
Mongolia	Ulaanbaatar	MN 11031	1.76	1.60	1.37	2.27	0.67	1.17	1.46	1.18
	Terej	MN 11032	1.86	0.77	2.80	2.06	1.85	2.44	1.99	1.91
Myanmar	Yangon	MM 11056								***
Philippines	Metro Manila	PH 11033	103	264	55.9	53.5	52.0	33.7	62.3	97.8
	Los Banos	PH 11034	87.1	62.7	41.9	26.1	24.9	29.7	46.7	75.5
	Mt. Sto. Tomas	PH 11055							0.68	24.9
Republic of Korea	Kanghwa	KR 11035	61.4	48.6	35.5	96.4	48.9	45.5	39.2	50.9
	Cheju (Kosan)	KR 11036	222	125	85.3	88.4	88.9	73.1	116	130
	Imsil	KR 11037		37.3	36.7	71.5	32.2	54.9	54.9	30.1
Russia	Mondy	RU 11038	0.79	0.46	1.81	1.25	0.99	1.69	1.83	1.38
	Listvyanka	RU 11039	2.22	1.07	2.45	2.23	2.72	2.43	1.09	1.75
	Irkutsk	RU 11040	6.19	5.72	5.45	8.07	4.71	5.47	4.48	6.30
	Primorskaya	RU 11041			28.3	11.5	14.7	16.0	11.2	18.3
Thailand	Bangkok	TH 11042	14.4	11.1	18.0	12.0	13.7	24.7	17.1	13.0
	Samutprakarn	TH 11043	12.6				16.2	30.9	17.7	21.0
	Patumthani	TH 11044	10.0	10.5	11.0	10.6	13.9	9.04	11.0	9.2
	Khanchanaburi	TH 11045	15.5	15.1	30.9	14.3	13.9	15.9	15.9	11.3
	Chiang Mai (Mae Hia)	TH 11046		4.91	14.8	3.81	4.40	6.01	5.29	5.48
	Nakhon Ratchasima	TH 11054							6.56	7.08
Viet Nam	Hanoi	VN 11047	30.5	61.2	13.5	33.7	23.2	47.9	19.2	19.5
	Hoa Binh	VN 11048	38.4	49.2	11.3	11.7	21.6	30.9	10.0	12.3

[***]: 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 NH₄⁺ depositionunit: mmol m⁻² y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	KH 11052					4.51	21.3	17.0	27.0
China	Guanyinqiao	CN 11001	174	158	173	131	189	169	151	181
	Nanshan	CN 11002	132							
	Jinyunshan	CN 11003		79.1	134	106	160	154	145	124
	Shizhan	CN 11004	235	92.8	70.7	183	87.5	39.3	80.7	109
	Weishuiyuan	CN 11005	190	24.5	74.1	188	70.5	28.2	75.4	
	Dabagou	CN 11006	165							
	Jiwozi	CN 11007		35.7	10.1	50.5	37.8	13.7	11.4	1.12
	Hongwen	CN 11008	47.9	19.2	69.3	38.3	48.8	60.2	62.0	51.8
	Xiaoping	CN 11009	31.0	88.9	67.5	67.5	74.4	94.0	50.5	55.0
	Xiang Zhou	CN 11010	41.7	49.8	166	58.7	67.9	121	86.6	28.0
	Zhuxian Cavern	CN 11011	90.7	77.8	76.5	52.5	75.9	27.8	24.3	***
Indonesia	Jakarta	ID 11012	122	81.9	49.8	33.6	32.8	26.4	25.7	52.6
	Serpong	ID 11014	***	109	115	96.4	61.9	36.8	64.6	89.2
	Kototabang	ID 11013	2.66	2.88	9.21	5.78	25.9	20.7	12.3	50.5
	Bandung	ID 11015	29.3	98.8	75.9	52.6	32.9	62.6	61.0	94.3
Japan	Rishiri	JP 11016	26.2	16.0	19.2	12.9	16.2	18.1	22.6	22.9
	Ochiishi	JP 11050				5.98	7.64	6.17	15.6	6.79
	Tappi	JP 11017	10.1	13.8	19.6	18.6	22.9	19.6	18.2	18.7
	Sado-seki	JP 11019	18.1	19.2	20.7	17.6	15.5	20.9	21.0	29.3
	Happo	JP 11021	31.0	25.3	20.2	15.7	25.6	32.3	24.7	25.8
	Ijira	JP 11022	63.8	39.4	60.4	53.6	50.2	52.1	64.5	46.8
	Oki	JP 11023	23.5	18.4	19.5	14.1	15.3	20.8	17.8	18.3
	Banryu	JP 11024	18.2	24.6	23.4	21.9	19.5	28.1	29.1	28.4
	Yusuhara	JP 11025	14.2	10.7	17.8	17.1	19.0	20.6	23.8	17.7
	Hedo	JP 11027	21.0	9.52	37.6	15.2	30.6	23.6	15.9	20.2
	Ogasawara	JP 11018	4.62	8.70	7.18	5.07	5.96	7.10	7.27	12.1
	Tokyo	JP 11057								29.9
Lao PDR	Vientiane	LA 11051				***	***	***	5.47	15.3
Malaysia	Petaling Jaya	MY 11029	149	179	43.0	37.1	39.4	57.3	93.3	57.7
	Tanah Rata	MY 11030	129	93.0	11.2	6.92	5.77	8.13	9.84	11.6
	Danum Valley	MY 11053						2.55	6.15	3.95
Mongolia	Ulaanbaatar	MN 11031	10.2	8.28	13.0	14.1	3.86	8.18	10.1	11.0
	Terelj	MN 11032	9.20	2.70	16.2	9.86	7.37	8.87	11.7	7.19
Myanmar	Yangon	MM 11056								***
Philippines	Metro Manila	PH 11033	143	177	137	52.2	76.6	71.0	109	118
	Los Banos	PH 11034	35.9	40.7	58.8	23.3	24.3	24.7	36.2	52.1
	Mt. Sto. Tomas	PH 11055							0.29	29.4
Republic of Korea	Kanghwa	KR 11035	42.0	42.7	33.0	90.6	66.4	53.8	57.9	51.5
	Cheju (Kosan)	KR 11036	21.3	36.0	44.0	54.1	40.4	21.6	29.5	35.9
	Imsil	KR 11037		54.9	41.9	61.0	34.0	40.5	35.5	53.7
Russia	Mondy	RU 11038	3.47	7.08	6.89	6.00	4.03	2.79	1.52	10.6
	Listvyanka	RU 11039	7.29	5.34	9.66	11.3	6.74	7.50	4.82	6.35
	Irkutsk	RU 11040	17.2	11.7	13.0	19.2	15.1	15.6	8.89	16.2
	Primorskaya	RU 11041			30.0	12.6	21.0	30.7	31.0	29.2
Thailand	Bangkok	TH 11042	47.4	42.5	60.9	51.9	45.8	87.1	89.0	91.3
	Samutprakarn	TH 11043	31.1				43.5	60.8	70.8	88.1
	Patumthani	TH 11044	36.6	47.9	32.4	48.2	33.2	39.6	53.9	47.5
	Khanchanaburi	TH 11045	6.03	16.7	24.0	20.3	11.7	10.1	44.1	23.7
	Chiang Mai (Mae Hia)	TH 11046		17.1	27.3	12.8	18.1	30.1	21.6	17.7
	Nakhon Ratchasima	TH 11054							27.5	25.4
Viet Nam	Hanoi	VN 11047	34.5	45.7	78.6	87.4	83.0	174	56.2	80.1
	Hoa Binh	VN 11048	15.2	27.8	45.9	48.5	75.0	68.5	42.7	41.4

[***]: 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 3.78 Annual Na⁺ depositionunit: mmol m⁻² y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	KH 11052					***	***	1.75	11.3
China	Guanyinqiao	CN 11001	12.8	8.11	8.01	4.85	10.1	8.99	6.66	7.69
	Nanshan	CN 11002	9.73							
	Jinyunshan	CN 11003		7.25	9.48	6.15	18.7	22.3	7.95	10.2
	Shizhan	CN 11004	24.7	59.8	85.7	88.1	11.5	8.18	21.8	8.22
	Weishuiyuan	CN 11005	30.8	15.1	48.0	147	10.9	9.01	21.1	
	Dabagou	CN 11006	19.8							
	Jiwozi	CN 11007		33.1	24.2	62.2	25.5	21.6	15.4	8.58
	Hongwen	CN 11008	36.1	3.20	87.2	45.2	53.7	87.4	65.6	32.4
	Xiaoping	CN 11009	13.6	31.7	35.6	43.6	25.5	28.3	54.5	13.0
	Xiang Zhou	CN 11010	85.4	49.0	71.9	67.5	96.6	52.0	54.3	27.9
	Zhuxian Cavern	CN 11011	55.5	70.7	71.4	63.2	120	64.7	20.0	***
Indonesia	Jakarta	ID 11012	82.6	48.8	55.6	43.8	54.6	49.4	19.3	34.4
	Serpong	ID 11014	***	38.2	63.2	24.2	28.7	13.2	12.0	23.7
	Kototabang	ID 11013	***	5.46	11.3	30.2	23.0	12.5	7.75	24.0
	Bandung	ID 11015	***	52.7	22.0	11.4	9.66	20.9	24.0	13.1
Japan	Rishiri	JP 11016	250	130	188	125	217	195	142	126
	Ochiishi	JP 11050				155	233	171	277	161
	Tappi	JP 11017	156	145	219	162	292	270	278	247
	Sado-seki	JP 11019	275	345	384	106	208	332	283	264
	Happo	JP 11021	17.2	14.6	8.85	11.8	18.4	21.1	11.4	7.29
	Ijira	JP 11022	53.5	66.4	75.6	39.4	74.0	34.9	30.7	47.1
	Oki	JP 11023	479	394	570	296	416	791	315	319
	Banryu	JP 11024	45.2	139.9	103.5	142	197	119	130	100
	Yusuhara	JP 11025	42.6	24.5	67.8	40.7	95.8	58.5	37.5	32.1
	Hedo	JP 11027	1320	341	1050	599	1550	800	351	349
	Ogasawara	JP 11018	277	189	314	351	146	199	163	209
	Tokyo	JP 11057								37.3
Lao PDR	Vientiane	LA 11051				***	***	***	5.04	3.32
Malaysia	Petaling Jaya	MY 11029	17.0	11.4	13.5	17.0	17.0	18.9	17.1	10.9
	Tanah Rata	MY 11030	5.94	5.05	4.56	5.70	4.42	19.2	3.93	4.57
	Danum Valley	MY 11053						5.59	16.9	12.4
Mongolia	Ulaanbaatar	MN 11031	1.55	1.51	1.12	1.14	0.48	1.08	1.58	0.66
	Terelj	MN 11032	1.34	1.41	4.15	1.40	1.31	2.83	2.68	1.74
Myanmar	Yangon	MM 11056								***
Philippines	Metro Manila	PH 11033	123	470	43.3	40.5	35.3	37.9	46.3	70.8
	Los Banos	PH 11034	91.7	67.6	35.9	24.6	20.9	28.3	50.5	54.4
	Mt. Sto. Tomas	PH 11055							1.21	19.2
Republic of Korea	Kanghwa	KR 11035	62.9	47.5	40.6	40.0	28.5	27.3	31.5	39.1
	Cheju (Kosan)	KR 11036	161	83.2	59.3	60.3	64.9	59.3	95.8	126
	Imsil	KR 11037		20.0	38.3	42.7	21.6	27.0	22.0	20.2
Russia	Mondy	RU 11038	0.56	0.73	0.39	0.93	0.69	0.44	0.64	1.10
	Listvyanka	RU 11039	2.02	1.67	1.37	2.76	2.57	1.36	0.87	1.05
	Irkutsk	RU 11040	4.73	3.88	2.78	3.01	3.68	3.04	3.58	4.75
	Primorskaya	RU 11041			19.3	10.9	15.6	16.0	10.5	19.6
Thailand	Bangkok	TH 11042	7.95	9.78	20.94	10.6	12.3	25.6	13.8	11.2
	Samutprakarn	TH 11043	9.91				20.8	32.2	20.8	22.8
	Patumthani	TH 11044	10.4	10.9	9.15	7.84	8.72	8.32	12.0	8.0
	Khanchanaburi	TH 11045	8.55	17.1	18.3	16.7	12.5	13.7	17.3	12.0
	Chiang Mai (Mae Hia)	TH 11046		4.27	14.2	2.60	3.52	1.31	5.02	2.75
	Nakhon Ratchasima	TH 11054							5.30	6.17
Viet Nam	Hanoi	VN 11047	22.8	25.9	8.41	14.2	12.7	31.2	16.6	13.6
	Hoa Binh	VN 11048	24.1	21.8	3.34	3.98	7.16	17.0	6.94	6.23

[***]: 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 K⁺ depositionunit: mmol m⁻² y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	KH 11052					0.68	***	1.41	5.00
China	Guanyinqiao	CN 11001	15.3	14.0	15.3	10.9	15.1	13.4	10.6	11.4
	Nanshan	CN 11002	20.5							
	Jinyunshan	CN 11003		31.6	16.5	10.6	17.8	16.6	13.6	11.1
	Shizhan	CN 11004	14.8	15.3	14.1	23.9	5.75	7.85	8.67	10.2
	Weishuiyuan	CN 11005	15.5	5.19	17.8	26.5	5.25	5.52	10.6	
	Dabagou	CN 11006	14.8							
	Jiwozi	CN 11007		9.11	5.99	13.0	8.65	10.0	4.88	2.80
	Hongwen	CN 11008	7.56	3.06	6.73	5.63	7.70	8.65	7.14	5.03
	Xiaoping	CN 11009	4.40	11.3	8.17	8.39	9.96	8.06	31.7	7.63
	Xiang Zhou	CN 11010	13.4	8.00	30.4	9.91	10.3	3.13	12.5	11.9
	Zhuxian Cavern	CN 11011	11.0	15.1	20.8	11.6	28.9	5.95	2.32	***
Indonesia	Jakarta	ID 11012	***	30.1	17.8	15.0	15.2	12.2	11.9	24.3
	Serpong	ID 11014	***	11.3	9.89	17.0	8.26	5.09	7.14	5.56
	Kototabang	ID 11013	***	1.59	9.16	62.6	13.2	9.57	5.69	23.3
	Bandung	ID 11015	***	32.7	5.19	6.63	2.95	8.15	6.31	4.01
Japan	Rishiri	JP 11016	7.66	3.71	4.86	3.47	5.68	4.89	4.85	3.65
	Ochiishi	JP 11050				3.62	5.23	4.34	7.64	3.97
	Tappi	JP 11017	3.82	3.55	5.41	3.97	7.28	6.19	6.86	5.97
	Sado-seki	JP 11019	6.80	7.95	9.30	2.78	5.48	7.60	7.20	6.84
	Happo	JP 11021	1.76	1.50	1.03	0.94	1.55	2.14	1.42	1.41
	Ijira	JP 11022	7.91	9.09	5.57	3.69	3.75	2.39	2.77	2.60
	Oki	JP 11023	12.7	10.9	15.0	8.70	13.6	20.4	9.16	10.6
	Banryu	JP 11024	2.12	4.89	3.76	4.36	5.25	4.76	4.37	3.89
	Yusuhara	JP 11025	2.15	1.05	2.37	1.30	3.72	2.27	2.15	1.51
	Hedo	JP 11027	26.3	7.57	24.3	14.0	43.7	20.2	8.77	8.95
	Ogasawara	JP 11018	7.10	7.37	8.21	7.82	3.59	4.68	4.01	4.97
	Tokyo	JP 11057								1.51
Lao PDR	Vientiane	LA 11051				***	***	***	2.49	2.37
Malaysia	Petaling Jaya	MY 11029	6.06	4.39	3.37	9.25	4.91	6.99	6.23	2.97
	Tanah Rata	MY 11030	3.41	2.40	2.21	2.15	3.68	2.57	1.74	1.92
	Danum Valley	MY 11053						1.47	3.05	3.22
Mongolia	Ulaanbaatar	MN 11031	0.77	0.77	0.68	1.01	0.24	0.65	0.97	0.16
	Terelj	MN 11032	0.93	0.34	2.50	1.28	0.97	1.59	1.93	0.70
Myanmar	Yangon	MM 11056								***
Philippines	Metro Manila	PH 11033	62.6	53.1	29.4	5.55	8.50	9.28	34.0	18.9
	Los Banos	PH 11034	4.58	17.3	10.9	2.94	3.74	3.62	5.53	15.2
	Mt. Sto. Tomas	PH 11055							0.57	7.73
Republic of Korea	Kanghwa	KR 11035	6.27	5.40	7.28	14.8	10.0	5.26	5.31	9.5
	Cheju (Kosan)	KR 11036	6.69	10.4	6.55	10.5	9.11	6.02	6.80	8.94
	Imsil	KR 11037		19.3	6.50	21.0	6.90	60.6	29.9	19.2
Russia	Mondy	RU 11038	0.36	0.66	0.47	0.66	0.96	0.30	0.45	0.87
	Listvyanka	RU 11039	2.06	0.86	0.80	1.42	1.30	0.52	0.48	0.52
	Irkutsk	RU 11040	2.34	3.45	0.70	1.20	1.50	1.50	2.73	3.72
	Primorskaya	RU 11041			4.47	3.25	5.01	5.21	3.41	6.11
Thailand	Bangkok	TH 11042	3.70	4.83	4.36	3.63	1.96	4.34	4.50	2.48
	Samutprakarn	TH 11043	5.17				6.15	7.99	6.12	5.38
	Patumthani	TH 11044	2.16	2.27	1.41	1.93	1.16	1.52	2.67	2.23
	Khanchanaburi	TH 11045	7.82	7.54	5.23	3.29	1.52	1.40	6.16	1.21
	Chiang Mai (Mae Hia)	TH 11046		3.19	6.49	3.19	1.62	1.02	2.41	2.69
	Nakhon Ratchasima	TH 11054							0.79	1.91
Viet Nam	Hanoi	VN 11047	5.14	8.59	2.93	4.08	4.65	9.19	4.65	4.48
	Hoa Binh	VN 11048	6.74	5.19	2.40	2.50	3.06	8.29	3.76	4.36

[***]: 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 Ca²⁺ deposition

unit: mmol m⁻² y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	KH 11052					0.00	***	8.64	26.4
China	Guanyinqiao	CN 11001	68.1	103	94.5	64.5	153	168	120	97.7
	Nanshan	CN 11002	69.5							
	Jinyunshan	CN 11003		31.9	47.7	37.8	107	84.3	118	90.7
	Shizhan	CN 11004	128	246	167	329	88.5	54.4	145	61.3
	Weishuiyuan	CN 11005	136	80.0	143	313	88.3	39.9	104	
	Dabagou	CN 11006	103							
	Jiwozi	CN 11007		89.5	39.1	140	89.7	46.7	51.9	34.7
	Hongwen	CN 11008	10.2	10.7	77.0	40.0	89.1	63.7	54.4	74.0
	Xiaoping	CN 11009	1.21	13.8	23.0	30.6	12.5	30.9	24.7	17.4
	Xiang Zhou	CN 11010	43.1	15.8	26.9	39.3	24.1	8.62	21.6	6.78
	Zhuxian Cavern	CN 11011	44.4	36.8	32.7	35.5	31.5	18.1	15.2	***
Indonesia	Jakarta	ID 11012	138	79.6	67.5	164	74.8	36.9	27.9	30.2
	Serpong	ID 11014	***	21.8	24.9	14.1	15.4	9.89	11.5	14.9
	Kototabang	ID 11013	9.28	1.73	8.84	17.3	14.7	7.42	6.48	13.0
	Bandung	ID 11015	***	63.0	43.4	17.5	16.3	27.7	19.4	18.7
Japan	Rishiri	JP 11016	10.6	6.21	9.73	5.49	8.13	7.32	6.90	5.15
	Ochiishi	JP 11050				4.49	7.92	7.37	10.2	6.03
	Tappi	JP 11017	6.68	6.25	12.0	8.02	11.4	13.3	12.3	11.7
	Sado-seki	JP 11019	12.5	15.4	13.0	5.72	7.23	11.6	15.3	13.7
	Happo	JP 11021	8.49	10.1	5.21	4.72	7.29	12.4	17.3	6.77
	Ijira	JP 11022	18.2	12.6	11.1	8.55	7.92	7.25	8.17	8.23
	Oki	JP 11023	19.4	16.1	18.1	11.0	16.7	24.4	15.9	15.8
	Banryu	JP 11024	6.6	10.7	7.0	5.95	9.20	7.57	18.6	9.37
	Yusuhara	JP 11025	7.55	7.09	4.17	4.04	7.32	5.55	8.25	4.66
	Hedo	JP 11027	29.3	10.4	28.5	15.1	40.3	25.1	17.2	13.3
	Ogasawara	JP 11018	10.1	9.81	11.5	11.2	3.93	5.25	5.68	6.83
	Tokyo	JP 11057								5.38
Lao PDR	Vientiane	LA 11051				***	***	***	6.20	4.25
Malaysia	Petaling Jaya	MY 11029	23.4	19.4	19.8	23.8	15.1	17.3	15.2	11.9
	Tanah Rata	MY 11030	7.06	8.13	8.56	10.1	5.60	5.28	3.20	3.11
	Danum Valley	MY 11053						1.70	3.79	1.53
Mongolia	Ulaanbaatar	MN 11031	7.41	7.86	8.91	7.88	3.60	7.49	8.63	5.19
	Terelj	MN 11032	3.16	1.33	6.72	3.32	3.36	3.33	5.32	2.52
Myanmar	Yangon	MM 11056								***
Philippines	Metro Manila	PH 11033	58.6	164	25.9	19.3	24.1	25.2	36.8	36.4
	Los Banos	PH 11034	18.3	119	12.3	12.5	9.41	5.82	15.4	16.1
	Mt. Sto. Tomas	PH 11055							2.43	79.0
Republic of Korea	Kanghwa	KR 11035	29.6	15.9	9.14	17.9	12.3	8.98	17.2	11.0
	Cheju (Kosan)	KR 11036	14.6	6.56	9.53	10.5	8.66	7.89	10.2	13.2
	Imsil	KR 11037		7.60	9.76	10.1	8.16	6.24	10.4	18.4
Russia	Mondy	RU 11038	1.76	2.24	1.74	1.55	1.92	1.19	2.24	2.42
	Listvyanka	RU 11039	5.66	3.58	4.11	7.70	7.80	3.72	2.74	3.68
	Irkutsk	RU 11040	14.9	16.3	9.53	10.9	12.1	9.53	10.7	12.7
	Primorskaya	RU 11041			15.1	8.16	14.9	15.6	15.6	13.8
Thailand	Bangkok	TH 11042	13.0	14.1	20.5	16.5	13.3	37.4	29.2	21.5
	Samutprakarn	TH 11043	10.8				9.88	15.7	21.0	20.5
	Patumthani	TH 11044	12.6	17.5	16.5	10.5	11.1	10.8	20.6	11.7
	Khanchanaburi	TH 11045	4.19	13.7	10.8	13.7	6.65	5.01	6.82	5.16
	Chiang Mai (Mae Hia)	TH 11046		7.53	26.5	4.62	5.50	5.36	6.72	7.53
	Nakhon Ratchasima	TH 11054							11.4	5.20
Viet Nam	Hanoi	VN 11047	26.2	24.1	23.8	28.2	39.3	45.9	43.4	30.0
	Hoa Binh	VN 11048	24.8	23.1	20.5	20.2	36.4	32.6	27.5	18.2

[***]: 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 3.81 Annual nss-Ca²⁺ deposition

unit: mmol m⁻² y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	KH 11052					***	***	8.61	26.2
China	Guanyinqiao	CN 11001	67.9	103	94.3	64.4	153	168	120	97.5
	Nanshan	CN 11002	69.3							
	Jinyunshan	CN 11003		31.7	47.5	37.7	107	83.9	117	90.4
	Shizhan	CN 11004	128	244	165	327	88.3	54.3	145	61.2
	Weishuiyuan	CN 11005	136	79.7	142	310	88.1	39.8	104	
	Dabagou	CN 11006	102							
	Jiwozi	CN 11007		88.8	38.6	139	89.1	46.2	51.6	34.5
	Hongwen	CN 11008	9.59	10.7	75.1	39.0	88.0	61.8	53.0	73.3
	Xiaoping	CN 11009	0.94	13.1	22.3	29.6	12.0	30.3	23.5	17.1
	Xiang Zhou	CN 11010	41.3	14.8	25.3	37.9	22.0	7.62	20.4	6.25
	Zhuxian Cavern	CN 11011	43.2	35.3	31.1	34.1	28.9	16.7	14.8	***
Indonesia	Jakarta	ID 11012	136	78.5	66.3	163	73.8	35.9	27.5	29.5
	Serpong	ID 11014	***	21.0	23.5	13.7	14.7	9.60	11.3	14.5
	Kototabang	ID 11013	***	1.65	8.60	16.6	14.2	7.15	6.31	12.5
	Bandung	ID 11015	***	61.8	42.9	17.2	16.1	26.9	18.9	18.4
Japan	Rishiri	JP 11016	5.14	3.40	5.66	2.82	3.46	3.15	3.87	2.44
	Ochiishi	JP 11050				1.25	2.90	3.65	4.29	2.56
	Tappi	JP 11017	3.36	3.25	7.30	4.53	5.19	7.62	6.26	6.34
	Sado-seki	JP 11019	6.60	8.08	4.86	3.44	2.90	4.46	9.20	7.99
	Happo	JP 11021	8.12	9.80	5.02	4.46	6.91	12.0	17.0	6.63
	Ijira	JP 11022	17.0	11.1	9.45	7.71	6.39	6.49	7.51	7.21
	Oki	JP 11023	9.07	7.60	6.14	4.55	7.76	7.24	9.57	8.91
	Banryu	JP 11024	5.7	7.7	4.76	2.89	4.97	5.02	15.8	7.21
	Yusuhara	JP 11025	6.80	6.68	2.91	3.23	5.25	4.28	7.44	3.97
	Hedo	JP 11027	2.35	3.64	5.87	4.84	7.64	7.81	9.59	5.75
	Ogasawara	JP 11018	4.24	5.77	4.77	3.68	1.22	1.18	2.17	2.34
	Tokyo	JP 11057								4.58
Lao PDR	Vientiane	LA 11051				***	***	***	6.09	4.18
Malaysia	Petaling Jaya	MY 11029	23.0	19.2	19.5	23.4	14.8	16.9	14.9	11.7
	Tanah Rata	MY 11030	6.93	8.02	8.46	9.95	5.51	4.92	3.13	3.02
	Danum Valley	MY 11053						1.58	3.49	1.36
Mongolia	Ulaanbaatar	MN 11031	7.38	7.83	8.88	7.85	3.59	7.46	8.59	5.17
	Terelj	MN 11032	3.13	1.30	6.46	3.29	3.33	3.27	5.26	2.48
Myanmar	Yangon	MM 11056								***
Philippines	Metro Manila	PH 11033	56.0	154	25.0	18.5	23.4	24.4	35.8	34.9
	Los Banos	PH 11034	16.3	117	11.5	12.0	8.95	5.22	14.3	14.9
	Mt. Sto. Tomas	PH 11055							2.40	78.7
Republic of Korea	Kanghwa	KR 11035	28.2	14.9	8.27	17.0	11.7	8.39	16.6	10.1
	Cheju (Kosan)	KR 11036	11.1	4.79	8.28	9.16	7.25	6.61	8.13	10.5
	Imsil	KR 11037		7.16	8.93	9.18	7.70	5.65	9.93	17.9
Russia	Mondy	RU 11038	1.75	2.22	1.73	1.53	1.90	1.18	2.23	2.40
	Listvyanka	RU 11039	5.61	3.54	4.08	7.64	7.74	3.69	2.72	3.66
	Irkutsk	RU 11040	14.8	16.2	9.47	10.8	12.0	9.46	10.6	12.6
	Primorskaya	RU 11041			14.7	7.92	14.5	15.2	15.4	13.4
Thailand	Bangkok	TH 11042	12.9	13.9	20.0	16.2	13.0	36.8	28.9	21.3
	Samutprakarn	TH 11043	10.6				9.43	15.0	20.6	20.0
	Patumthani	TH 11044	12.3	17.3	16.3	10.3	11.0	10.6	20.4	11.6
	Khanchanaburi	TH 11045	4.02	13.4	10.4	13.4	6.38	4.72	6.44	4.90
	Chiang Mai (Mae Hia)	TH 11046		7.44	26.2	4.57	5.42	5.33	6.64	7.47
	Nakhon Ratchasima	TH 11054							11.2	5.07
Viet Nam	Hanoi	VN 11047	25.7	23.5	23.6	27.8	39.1	45.2	43.0	29.7
	Hoa Binh	VN 11048	24.2	22.6	20.4	20.1	36.2	32.2	27.4	18.0

[***]: 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 Mg²⁺ depositionunit: mmol m⁻² y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	KH 11052					0.00	***	0.63	4.49
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							
	Jinyunshan	CN 11003		4.09	5.41	3.56	5.39	4.63	4.78	4.61
	Shizhan	CN 11004	13.2	17.6	23.7	42.7	9.18	6.69	13.6	11.3
	Weishuiyuan	CN 11005	14.2	6.13	21.1	52.0	8.99	4.77	13.3	
	Dabagou	CN 11006	12.1							
	Jiwozi	CN 11007		8.58	7.09	20.7	16.9	11.2	9.51	4.88
	Hongwen	CN 11008	6.40	1.86	15.1	7.76	12.2	15.4	11.6	8.32
	Xiaoping	CN 11009	2.07	6.77	3.50	7.15	2.81	3.35	6.52	2.16
	Xiang Zhou	CN 11010	14.1	5.83	9.56	12.3	8.51	8.10	18.3	3.43
	Zhuxian Cavern	CN 11011	14.1	8.56	11.2	12.9	10.8	9.65	4.43	***
Indonesia	Jakarta	ID 11012	346	85.3	20.7	20.6	9.25	7.72	12.7	4.79
	Serpong	ID 11014	***	5.67	11.3	5.76	5.84	3.09	2.78	5.33
	Kototabang	ID 11013	***	1.25	4.63	21.1	3.76	2.06	2.82	10.6
	Bandung	ID 11015	***	10.6	4.16	2.73	2.93	4.29	4.27	3.31
Japan	Rishiri	JP 11016	28.0	15.2	21.4	14.4	25.0	22.4	16.3	15.0
	Ochiishi	JP 11050				17.3	27.3	18.2	31.1	18.6
	Tappi	JP 11017	18.3	16.7	26.1	19.3	34.5	30.0	32.1	27.9
	Sado-seki	JP 11019	30.9	39.3	44.0	12.7	24.1	37.7	32.7	30.3
	Happo	JP 11021	3.66	3.73	2.42	3.06	3.90	3.59	2.64	1.57
	Ijira	JP 11022	7.75	8.93	9.34	6.42	9.43	4.51	4.63	6.23
	Oki	JP 11023	54.4	45.6	63.8	33.9	48.4	91.8	37.6	36.8
	Banryu	JP 11024	5.22	16.29	12.12	16.3	23.0	13.9	16.3	12.5
	Yusuhara	JP 11025	6.09	3.80	8.34	5.21	11.4	7.07	5.25	4.27
	Hedo	JP 11027	145	35.8	120	68.7	162	84.3	40.7	40.0
	Ogasawara	JP 11018	38.2	23.9	43.1	43.5	15.3	21.8	18.1	23.4
	Tokyo	JP 11057								4.56
Lao PDR	Vientiane	LA 11051				***	***	***	2.47	0.98
Malaysia	Petaling Jaya	MY 11029	4.74	4.02	3.79	2.15	2.66	2.40	2.85	1.16
	Tanah Rata	MY 11030	1.30	1.07	1.17	1.36	0.75	1.42	0.45	0.33
	Danum Valley	MY 11053						0.41	1.45	1.20
Mongolia	Ulaanbaatar	MN 11031	0.81	0.90	0.64	1.10	0.49	0.78	0.83	0.60
	Terelj	MN 11032	0.66	0.22	1.01	0.71	1.07	0.90	1.04	0.38
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
	Los Banos	PH 11034	9.78	20.1	5.00	4.18	6.25	3.84	7.65	10.7
	Mt. Sto. Tomas	PH 11055							0.42	7.03
Republic of Korea	Kanghwa	KR 11035	10.4	6.00	5.22	4.50	4.82	5.03	5.57	5.95
	Cheju (Kosan)	KR 11036	19.7	11.1	7.60	7.57	8.17	10.5	10.8	9.09
	Imsil	KR 11037		2.49	3.28	3.00	2.89	2.27	2.83	4.80
Russia	Mondy	RU 11038	0.33	0.47	0.45	0.32	0.46	0.27	0.40	0.62
	Listvyanka	RU 11039	1.30	0.88	1.10	1.97	1.76	0.72	0.53	0.76
	Irkutsk	RU 11040	2.66	2.60	1.71	1.97	2.64	2.24	2.06	3.00
	Primorskaya	RU 11041			4.73	3.60	4.87	4.18	3.43	4.25
Thailand	Bangkok	TH 11042	2.30	3.71	4.61	3.22	2.59	7.58	3.72	2.65
	Samutprakarn	TH 11043	2.33				2.36	5.57	6.57	5.03
	Patumthani	TH 11044	2.30	2.93	2.63	1.76	1.55	1.66	2.82	1.77
	Khanchanaburi	TH 11045	1.47	3.82	3.85	3.63	2.29	2.30	2.47	1.70
	Chiang Mai (Mae Hia)	TH 11046		1.19	5.22	1.68	2.10	1.43	3.44	1.16
	Nakhon Ratchasima	TH 11054							2.36	2.47
Viet Nam	Hanoi	VN 11047	6.27	8.94	4.18	5.77	5.98	15.2	10.5	6.91
	Hoa Binh	VN 11048	8.84	8.25	2.31	3.62	4.62	9.59	8.17	5.38

[***]: 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 H⁺ deposition

unit: mmol m⁻² y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006	2007
Cambodia	Phnom Penh	KH 11052					2.01	0.63	0.18	0.28
China	Guanyinqiao	CN 11001	50.5	12.1	36.4	31.7	36.0	12.1	11.6	29.3
	Nanshan	CN 11002	76.2							
	Jinyunshan	CN 11003		46.5	70.1	62.0	39.3	34.7	24.4	49.4
	Shizhan	CN 11004	1.17	0.15	0.20	1.27	0.30	1.96	1.33	1.60
	Weishuiyuan	CN 11005	0.17	0.03	0.22	1.02	0.49	3.09	0.46	
	Dabagou	CN 11006	3.14							
	Jiwozi	CN 11007		0.12	0.14	0.54	0.79	0.23	0.32	0.01
	Hongwen	CN 11008	29.0	8.75	25.4	44.8	20.6	33.8	31.4	21.8
	Xiaoping	CN 11009	19.1	33.8	72.9	73.2	48.3	48.1	38.9	26.5
	Xiang Zhou	CN 11010	14.2	22.7	13.5	13.6	22.1	32.2	20.4	33.7
	Zhuxian Cavern	CN 11011	40.8	43.0	20.3	13.8	29.6	25.9	13.3	***
Indonesia	Jakarta	ID 11012	10.4	4.68	26.5	11.3	30.0	104	61.4	59.7
	Serpong	ID 11014	***	38.0	56.6	51.6	30.5	21.1	40.1	52.0
	Kototabang	ID 11013	73.0	10.3	8.78	15.6	39.0	46.0	36.6	14.7
	Bandung	ID 11015	***	26.4	88.7	16.1	8.31	16.3	9.18	23.2
Japan	Rishiri	JP 11016	12.1	10.3	14.4	9.43	13.6	17.7	27.8	23.3
	Ochiishi	JP 11050				9.53	13.4	12.0	13.8	14.5
	Tappi	JP 11017	19.9	24.9	27.8	31.0	37.5	30.9	25.5	25.1
	Sado-seki	JP 11019	28.7	22.5	32.5	24.2	30.4	31.5	24.9	36.5
	Happo	JP 11021	40.6	34.1	30.7	30.5	43.0	47.6	29.4	37.8
	Ijira	JP 11022	80.7	82.9	80.5	115	75.8	79.4	87.6	66.3
	Oki	JP 11023	27.6	21.1	29.2	27.9	22.4	36.0	26.1	26.8
	Banryu	JP 11024	35.9	39.1	26.5	40.7	34.7	42.2	40.1	41.1
	Yusuhara	JP 11025	54.7	31.1	40.8	52.3	42.1	52.9	45.4	36.4
	Hedo	JP 11027	21.5	23.1	22.9	17.4	29.4	26.2	18.9	27.7
	Ogasawara	JP 11018	11.7	14.6	10.9	12.7	8.75	31.5	16.1	14.7
	Tokyo	JP 11057								17.6
Lao PDR	Vientiane	LA 11051				0.03	1.00	0.32	0.23	3.02
Malaysia	Petaling Jaya	MY 11029	153	173	157	158	142	123	151	83.2
	Tanah Rata	MY 11030	50.4	33.4	30.1	38.3	33.1	41.4	31.3	33.0
	Danum Valley	MY 11053						13.1	26.8	24.0
Mongolia	Ulaanbaatar	MN 11031	0.11	0.11	0.07	0.56	0.03	0.15	0.07	0.07
	Terelj	MN 11032	0.63	0.08	0.44	1.24	0.34	1.34	1.48	1.12
Myanmar	Yangon	MM 11056								10.6
Philippines	Metro Manila	PH 11033	13.2	8.86	24.1	79.8	14.4	26.8	13.5	18.7
	Los Banos	PH 11034	9.58	5.41	3.07	52.2	9.54	11.9	5.42	9.01
	Mt. Sto. Tomas	PH 11055							0.20	10.0
Republic of Korea	Kanghwa	KR 11035	11.2	11.6	18.3	33.5	23.8	46.1	23.0	21.2
	Cheju (Kosan)	KR 11036	15.0	14.4	24.8	19.3	20.5	19.9	51.8	38.2
	Imsil	KR 11037		10.5	2.00	15.7	14.2	1.24	4.57	2.49
Russia	Mondy	RU 11038	1.68	1.00	0.83	1.83	1.64	1.24	1.67	1.06
	Listvyanka	RU 11039	3.78	5.42	4.74	5.24	6.67	6.62	7.10	8.82
	Irkutsk	RU 11040	4.15	2.49	2.86	1.94	6.74	3.36	2.52	5.59
	Primorskaya	RU 11041			5.26	4.27	10.0	6.39	9.32	14.4
Thailand	Bangkok	TH 11042	12.8	12.6	10.3	40.8	7.86	25.6	11.0	14.1
	Samutprakarn	TH 11043	14.5				4.29	5.55	1.93	4.60
	Patumthani	TH 11044	5.41	10.0	4.39	22.7	13.3	16.4	20.9	21.5
	Khanchanaburi	TH 11045	2.41	8.29	5.05	5.65	1.18	5.86	4.48	2.83
	Chiang Mai (Mae Hia)	TH 11046		2.10	2.79	2.00	2.93	8.50	2.83	1.05
	Nakhon Ratchasima	TH 11054							9.06	11.5
Viet Nam	Hanoi	VN 11047	4.48	3.31	3.95	2.45	3.56	1.25	2.28	4.32
	Hoa Binh	VN 11048	14.7	20.2	10.6	7.02	4.61	4.63	3.98	17.0

[***]: 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 Site Code

Country	Name of sites	Code
Cambodia	Phnom Penh	KH 11052
China	Guanyinqiao	CN 11001
	Nanshan	CN 11002
	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
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
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

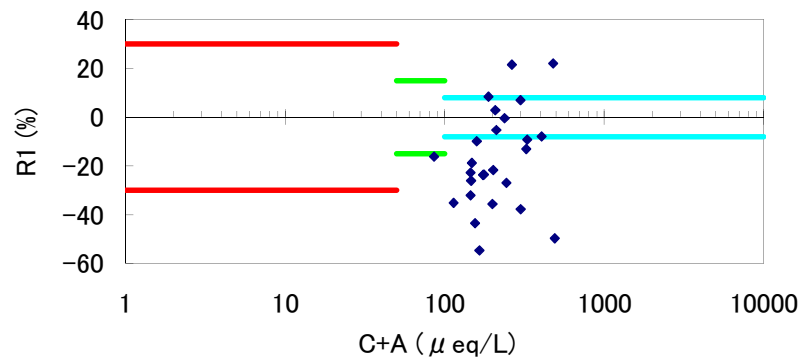


Fig. 3.2 a) Phnom Penh Ion Balance (R_1)

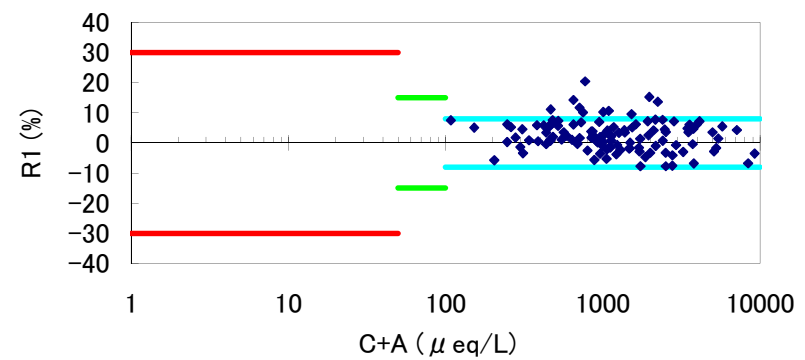


Fig. 3.3 a) Guanyinqiao Ion Balance (R_1)

Calculated including F^-

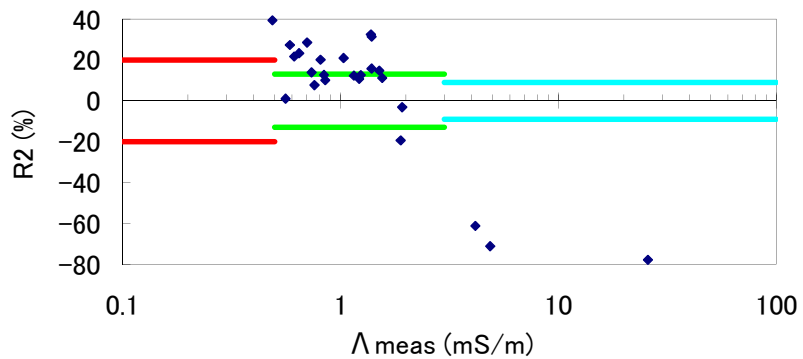


Fig. 3.2 b) Phnom Penh Conductivity Agreement (R_2)

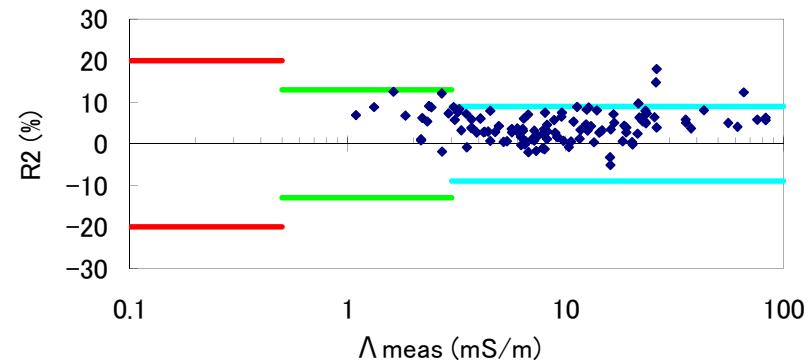


Fig. 3.3 b) Guanyinqiao Conductivity Agreement (R_2)

Calculated including F^-

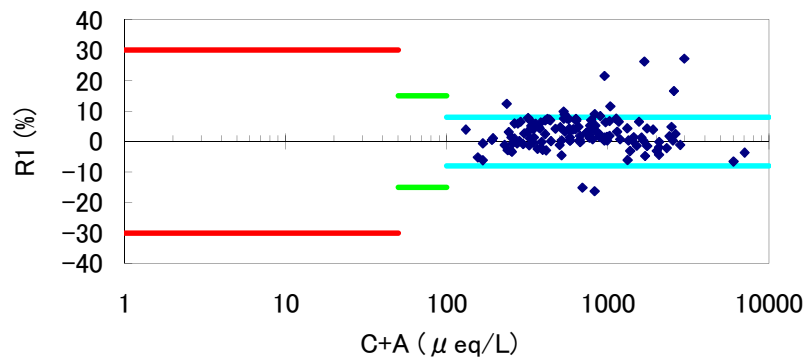


Fig. 3.4 a) Jinyunshan Ion Balance (R_1)

Calculated including F^-

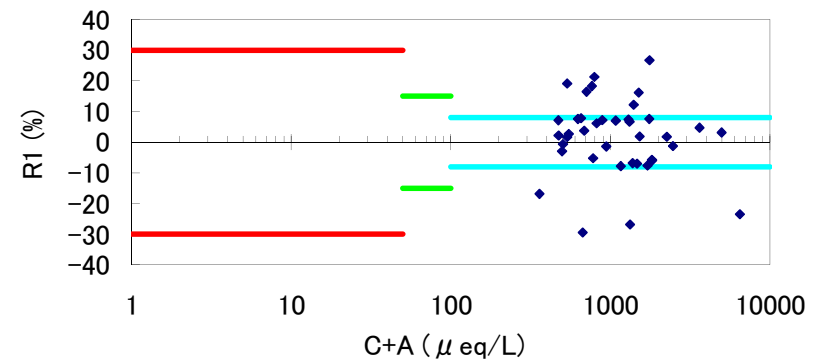


Fig. 3.5 a) Shizhan Ion Balance (R_1)

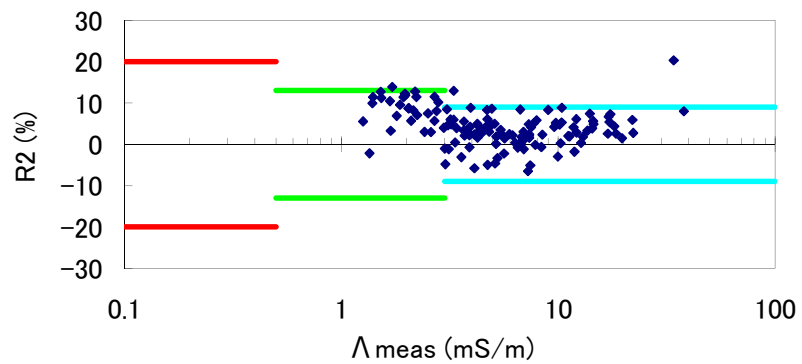


Fig 3.4 b) Jinyunshan Conductivity Agreement (R_2)

Calculated including F^-

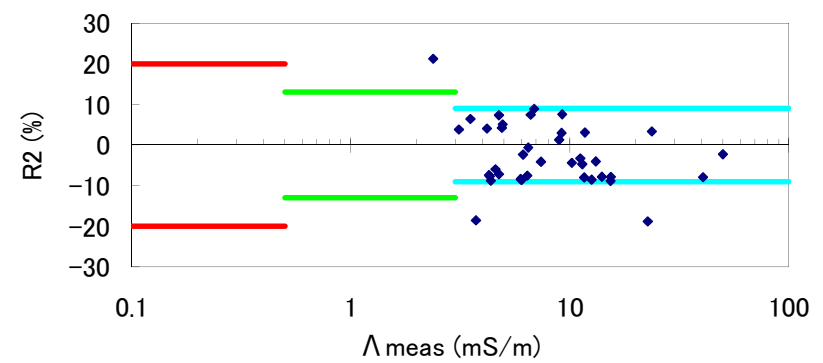


Fig. 3.5 b) Shizhan Conductivity Agreement (R_2)

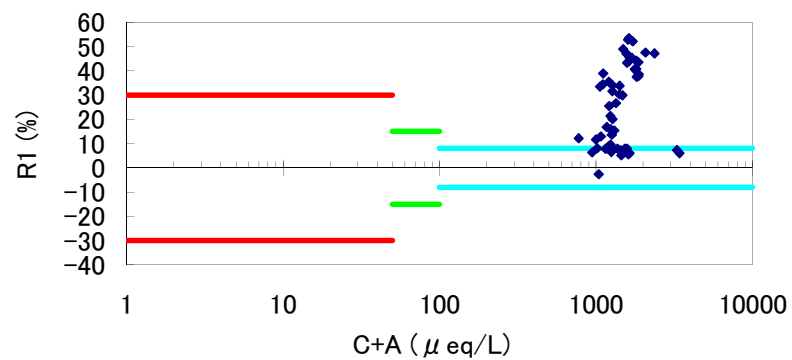


Fig. 3.6 a) Jiwozi Ion Balance (R_1)

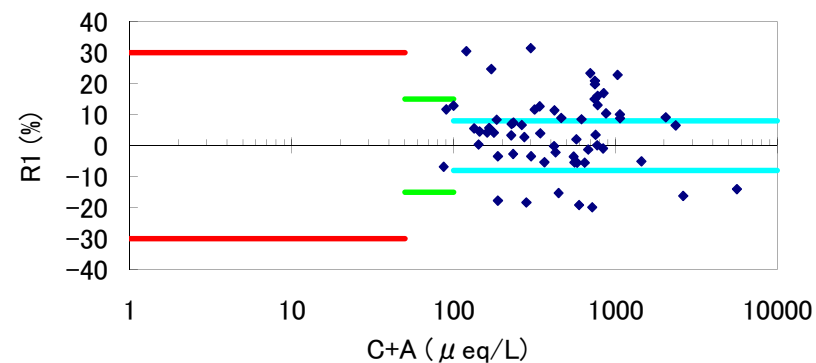


Fig. 3.7 a) Hongwen Ion Balance (R_1)

Calculated including F^-

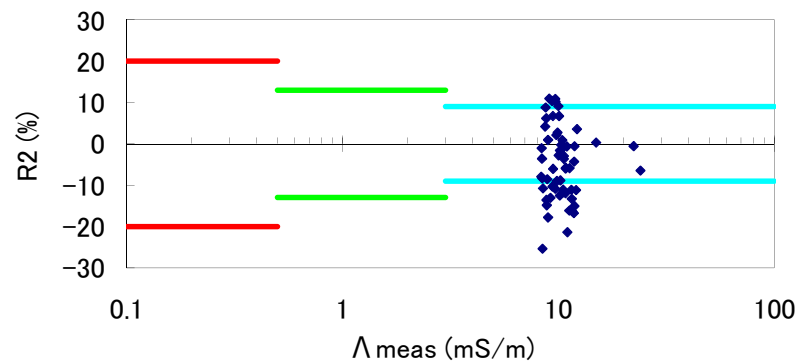


Fig. 3.6 b) Jiwozi Conductivity Agreement (R_2)

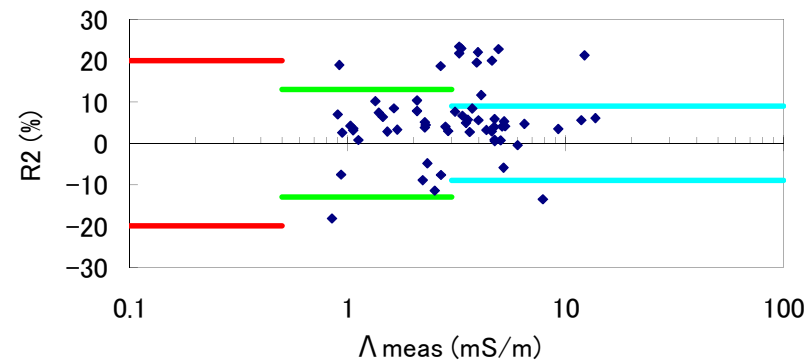


Fig. 3.7 b) Hongwen Conductivity Agreement (R_2)

Calculated including F^-

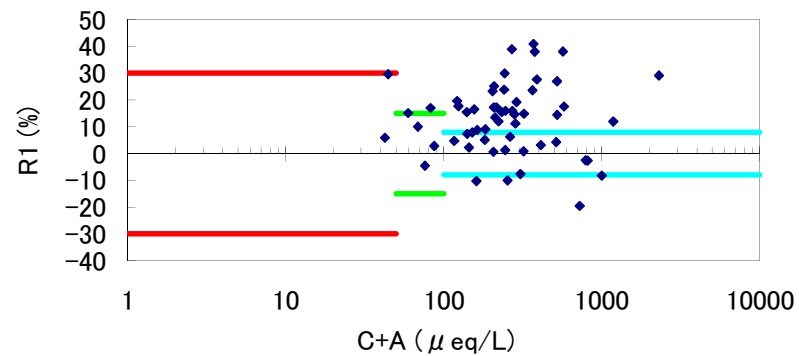


Fig. 3.8 a) Xiaoping Ion Balance (R_1)

Calculated including F^-

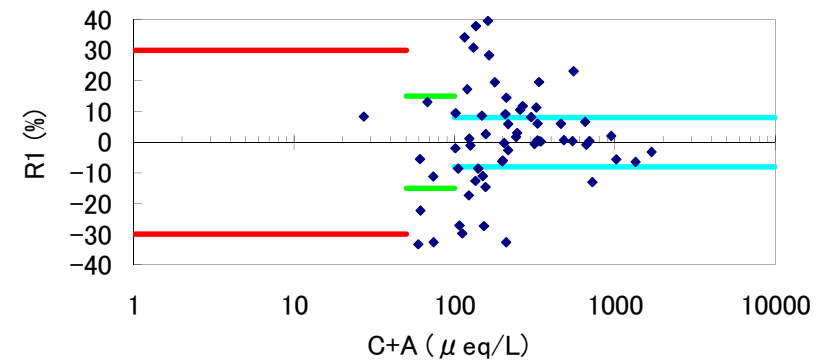


Fig. 3.9 a) Xiang Zhou Ion Balance (R_1)

Calculated including F^-

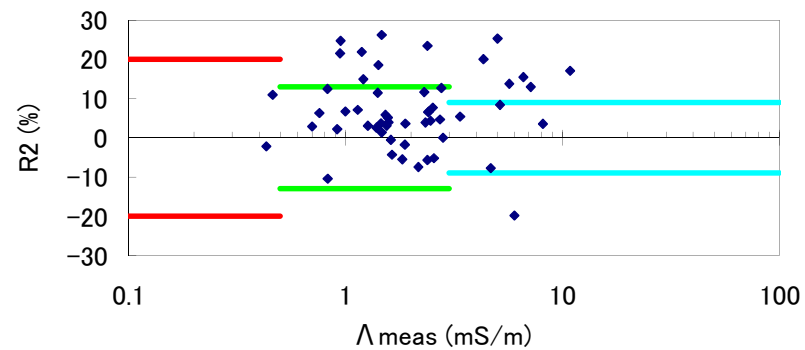


Fig. 3.8 b) Xiaoping Conductivity Agreement (R_2)

Calculated including F^-

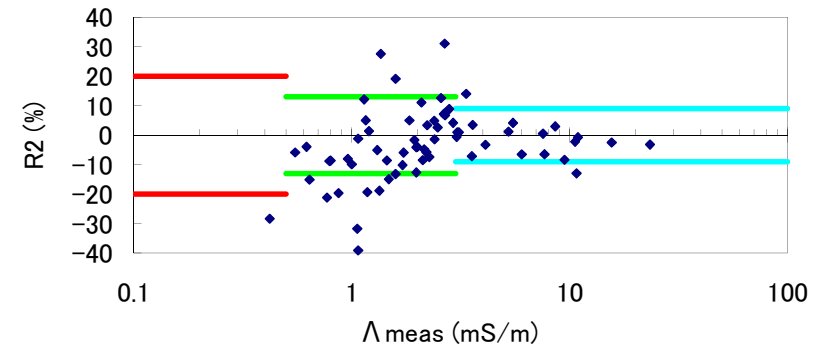


Fig. 3.9 b) Xiang Zhou Conductivity Agreement (R_2)

Calculated including F^-

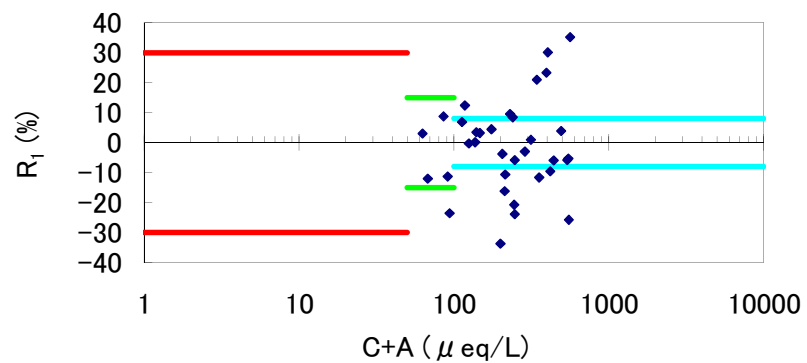


Fig. 3.10 a) Jakarta Ion Balance (R_1)

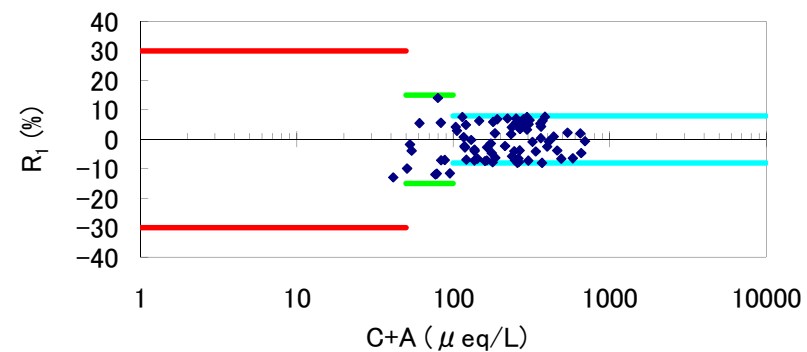


Fig. 3.11 a) Serpong Ion Balance (R_1)

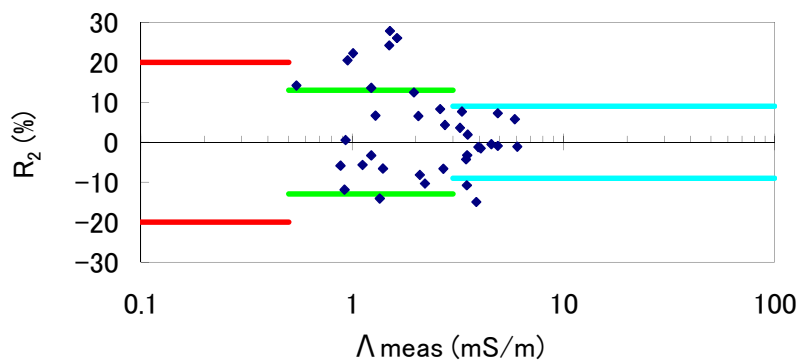


Fig 3.10 b) Jakarta Conductivity Agreement (R_2)

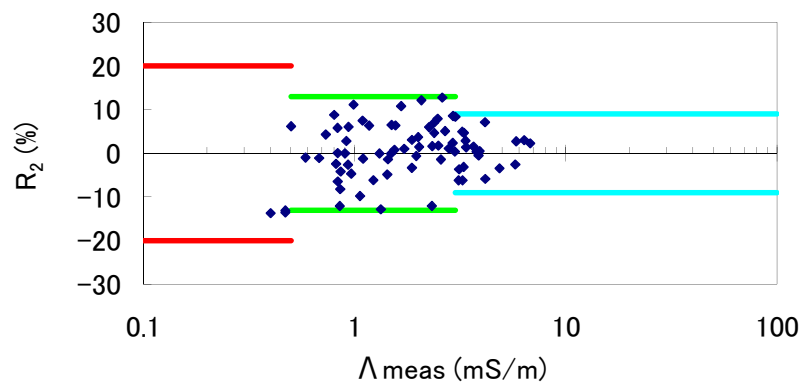


Fig. 3.11 b) Serpong Conductivity Agreement (R_2)

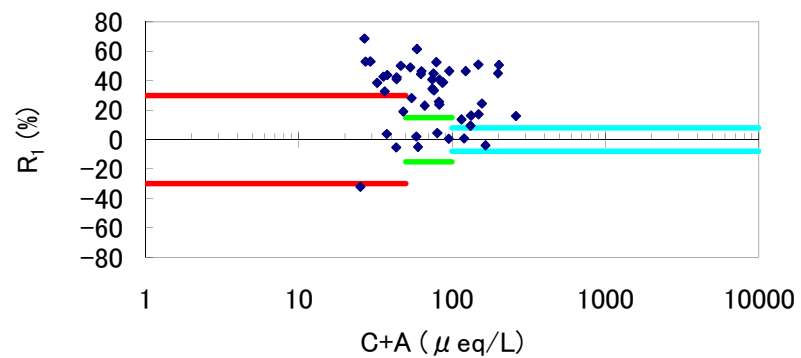


Fig. 3.12 a) Kototabang Ion Balance (R_1)

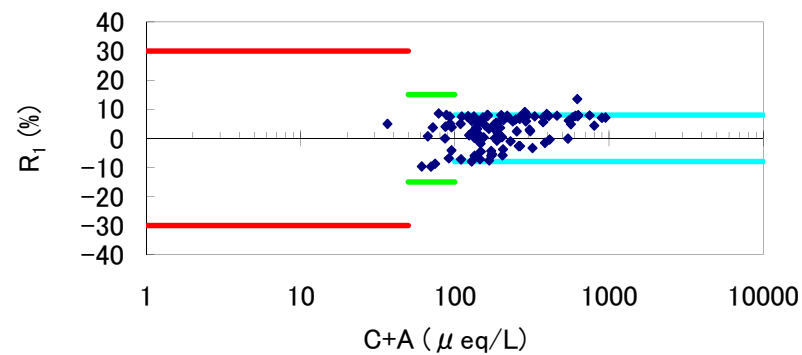


Fig. 3.13 a) Bandung Ion Balance (R_1)

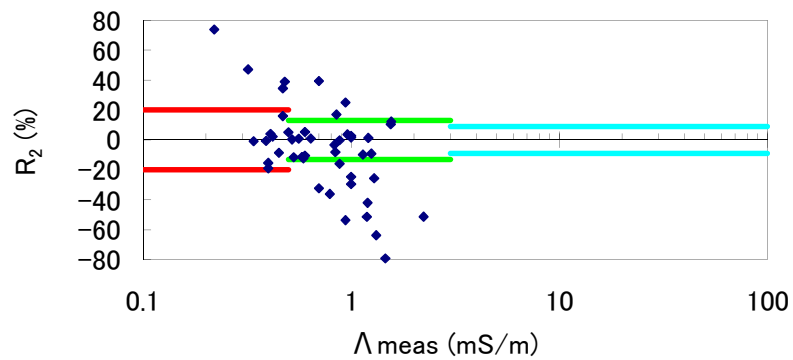


Fig 3.12 b) Kototabang Conductivity Agreement (R_2)

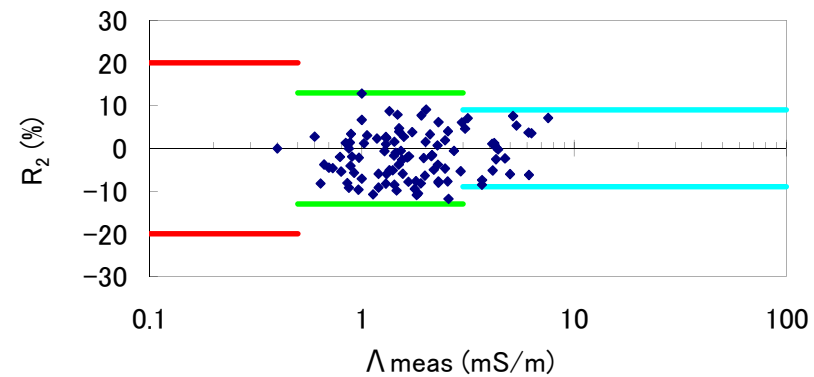


Fig. 3.13 b) Bandung Conductivity Agreement (R_2)

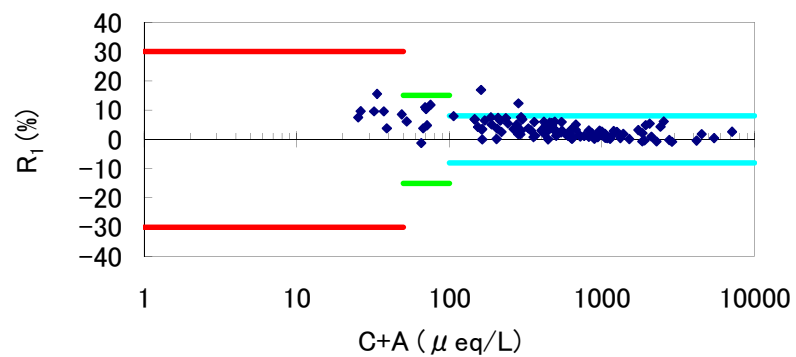


Fig. 3.14 a) Rishiri Ion Balance (R_1)

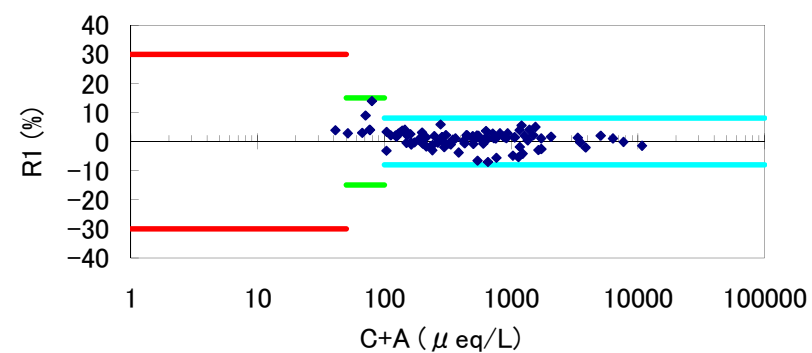


Fig. 3.15 a) Ochiishi Ion Balance (R_1)

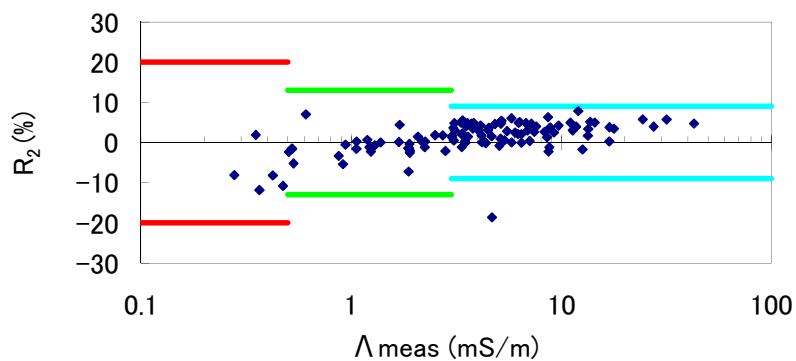


Fig. 3.14 b) Rishiri Conductivity Agreement (R_2)

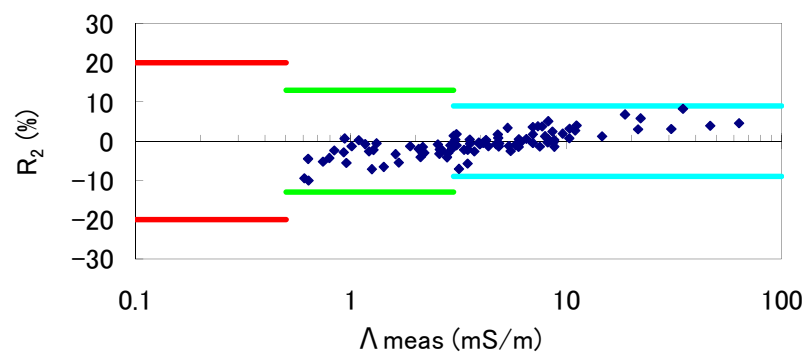


Fig. 3.15 b) Ochiishi Conductivity Agreement (R_2)

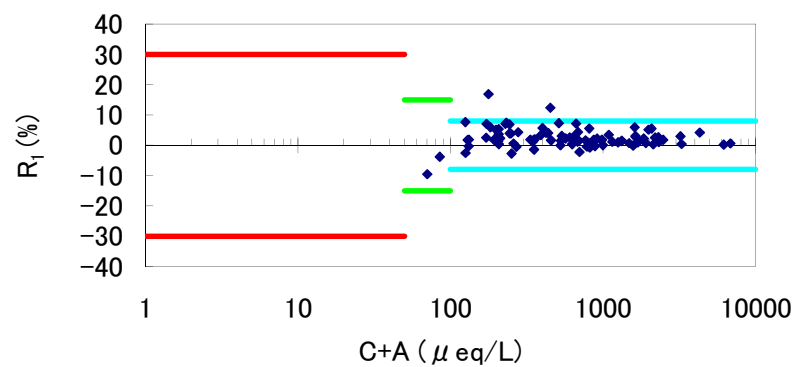


Fig. 3.16 a) Tappi Ion Balance (R_1)

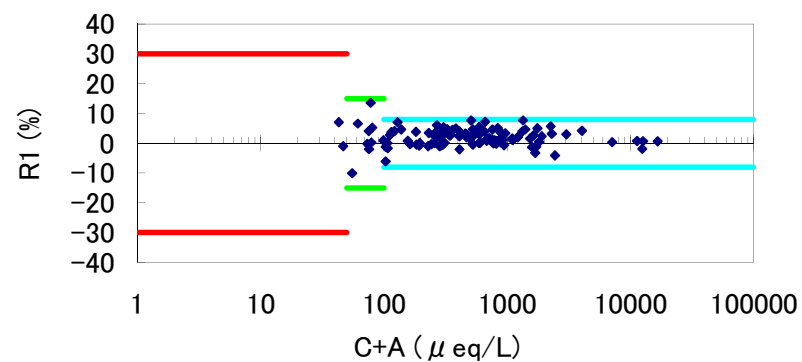


Fig. 3.17 a) Sado-seki Ion Balance (R_1)

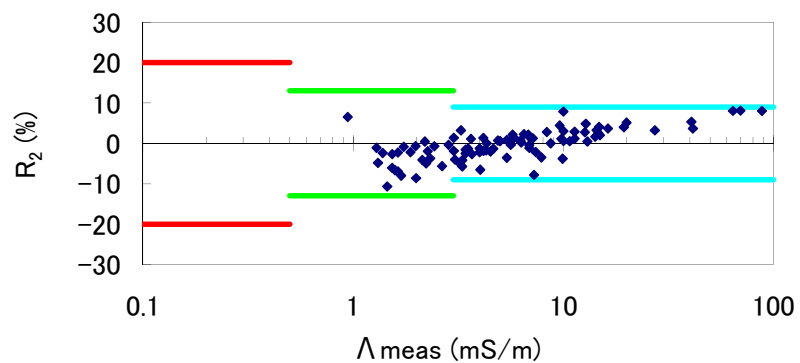


Fig. 3.16 b) Tappi Conductivity Agreement (R_2)

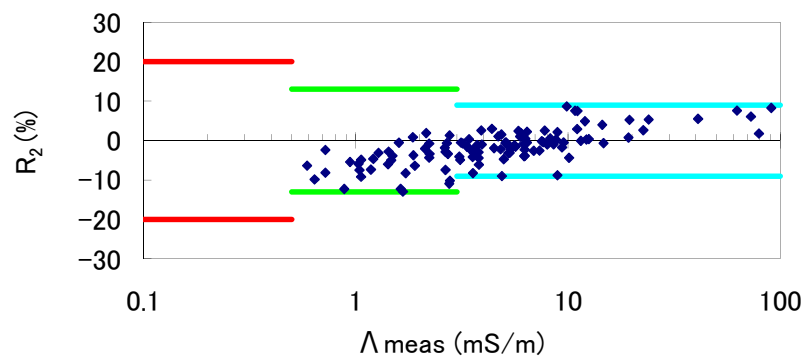


Fig. 3.17 b) Sado-seki Conductivity Agreement (R_2)

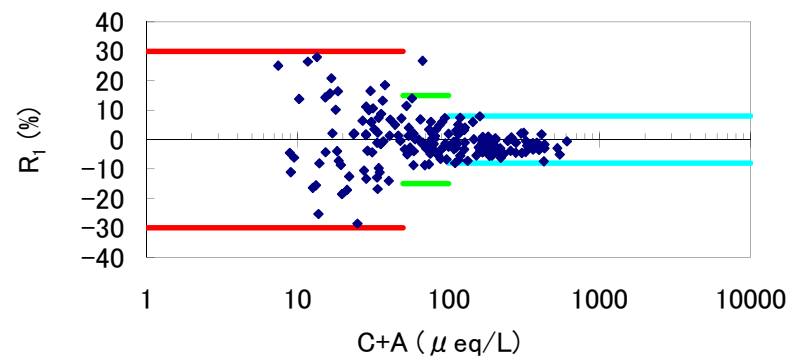


Fig. 3.18 a) Happo Ion Balance (R_1)

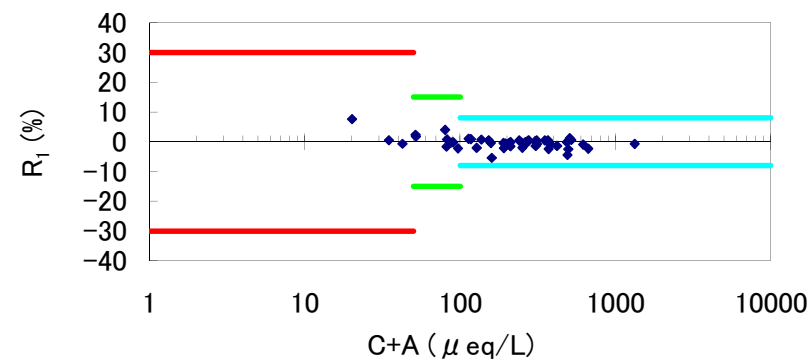


Fig. 3.19 a) Ijira Ion Balance (R_1)

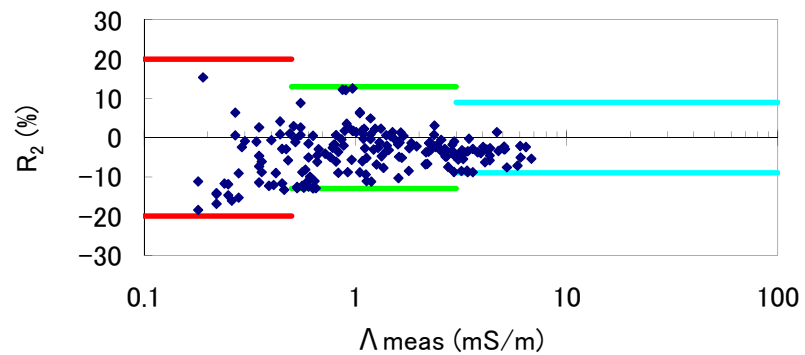


Fig. 3.18 b) Happo Conductivity Agreement (R_2)

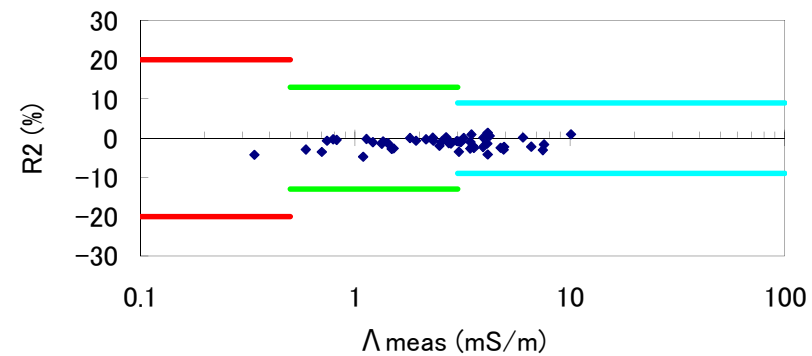


Fig. 3.19 b) Ijira Conductivity Agreement (R_2)

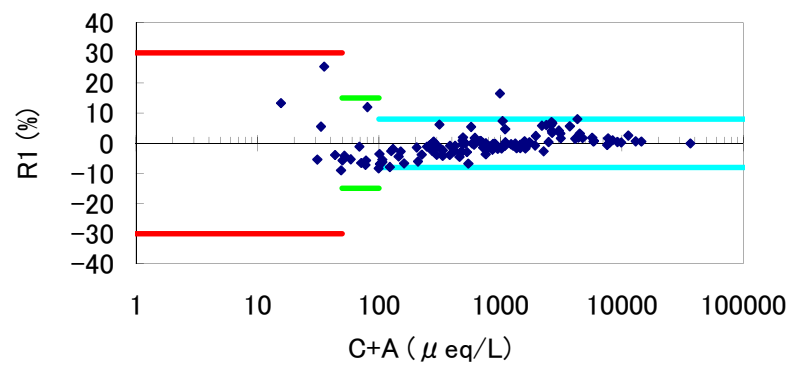


Fig. 3.20 a) Oki Ion Balance (R_1)

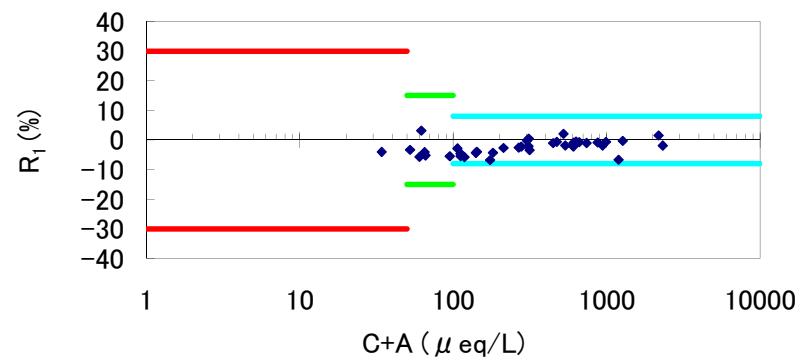


Fig. 3.21 a) Banryu Ion Balance (R_1)

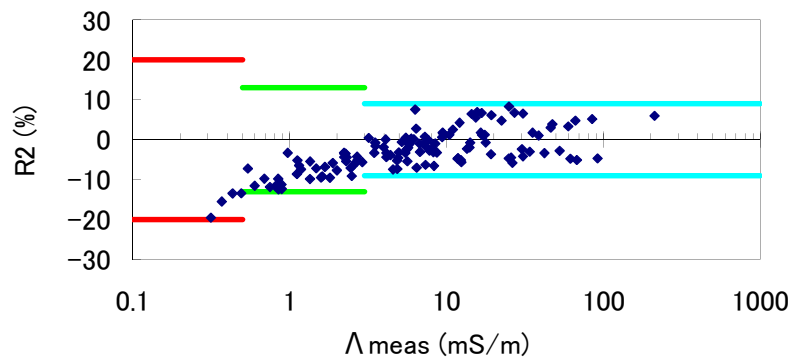


Fig. 3.20 b) Oki Conductivity Agreement (R_2)

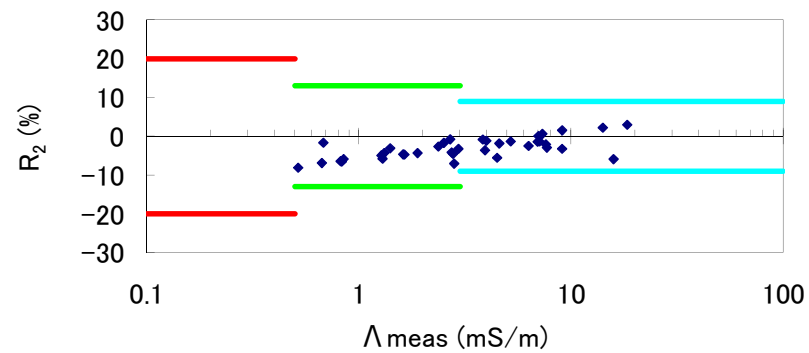


Fig. 3.21 b) Banryu Conductivity Agreement (R_2)

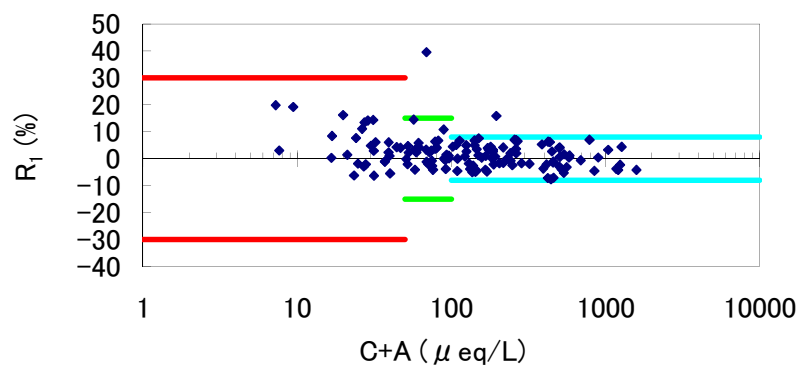


Fig. 3.22 a) Yusuhara Ion Balance (R_1)

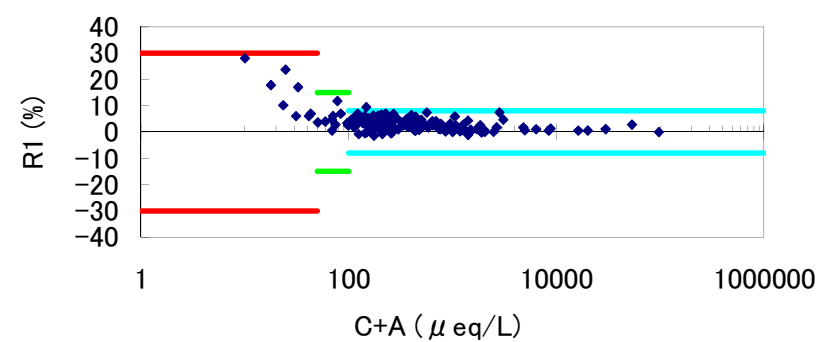


Fig. 3.23 a) Hedo Ion Balance (R_1)

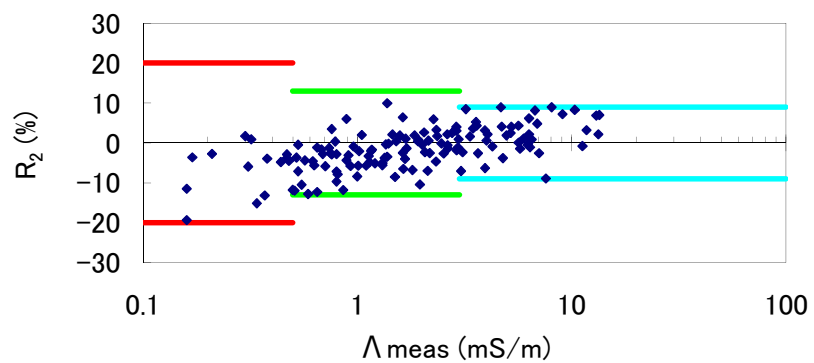


Fig. 3.22 b) Yusuhara Conductivity Agreement (R_2)

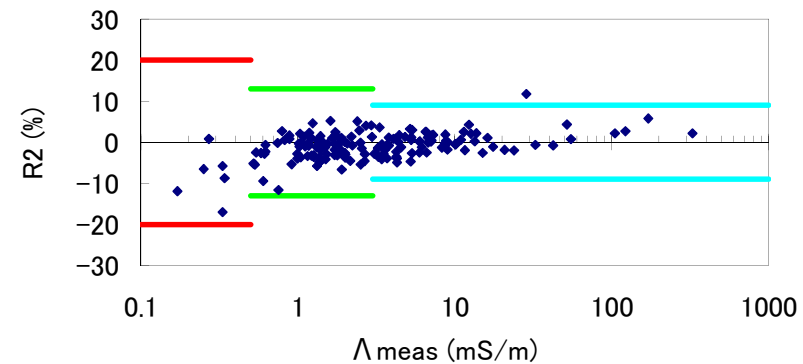


Fig. 3.23 b) Hedo Conductivity Agreement (R_2)

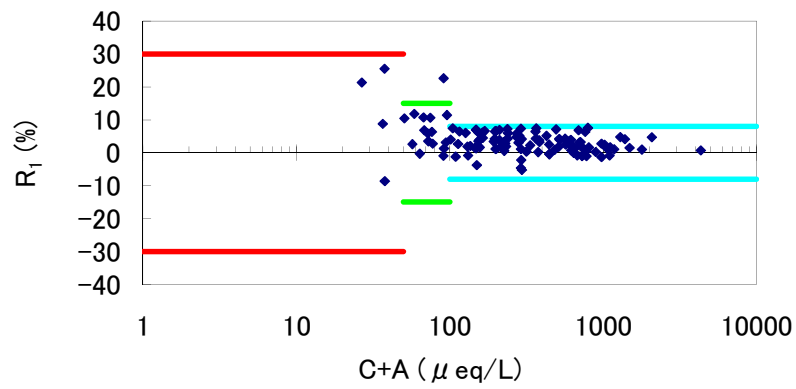


Fig. 3.24 a) Ogasawara Ion Balance (R_1)

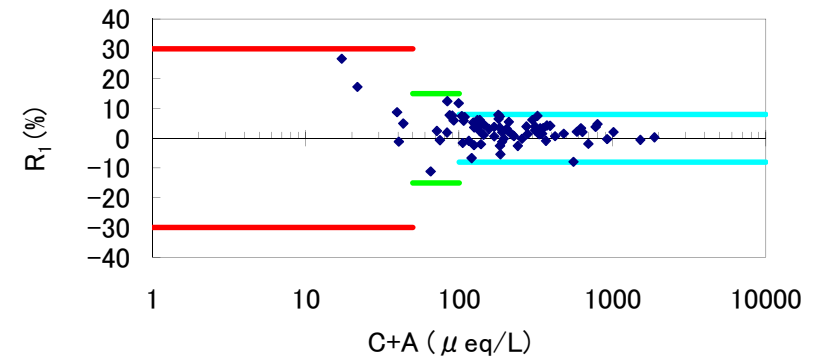


Fig. 3.25 a) Tokyo Ion Balance (R_1)

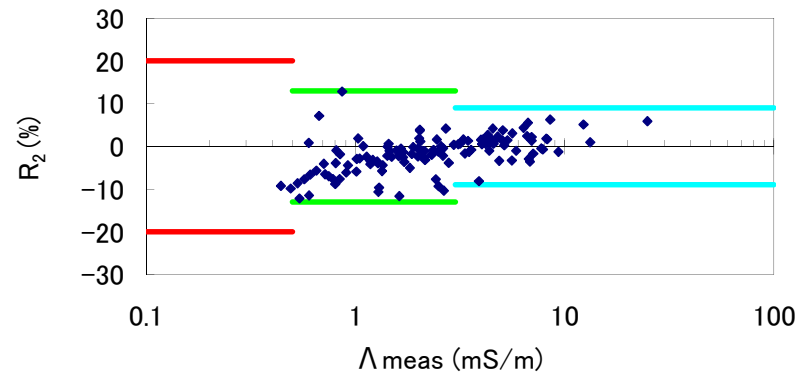


Fig. 3.24 b) Ogasawara Conductivity Agreement (R_2)

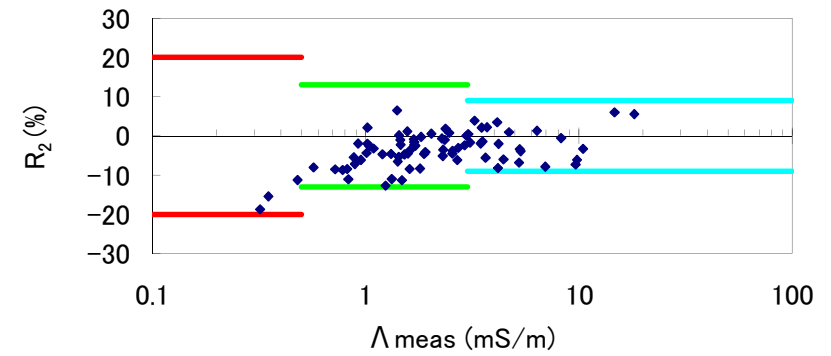


Fig. 3.25 b) Tokyo Conductivity Agreement (R_2)

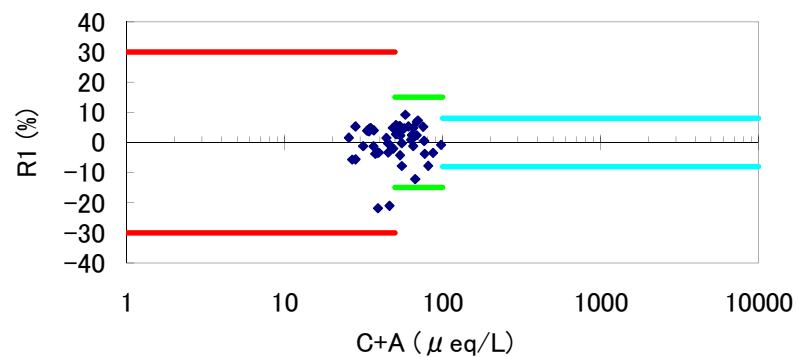


Fig. 3.26 a) Vientiane Ion Balance (R_1)

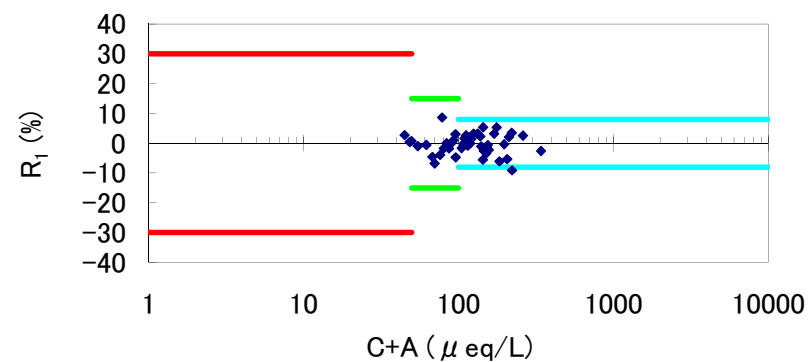


Fig. 3.27 a) Petaling Jaya Ion Balance (R_1)

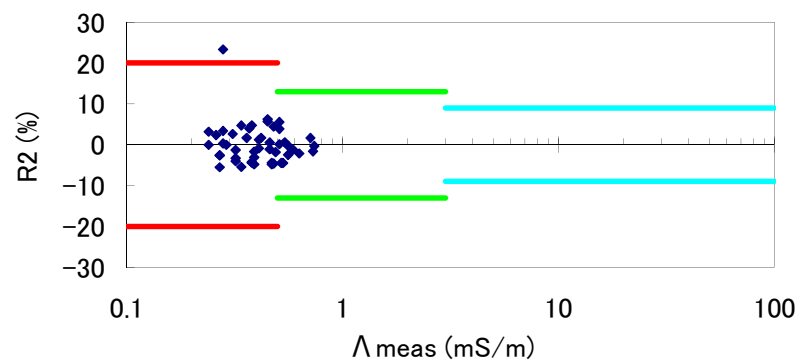


Fig. 3.26 b) Vientiane Conductivity Agreement (R_2)

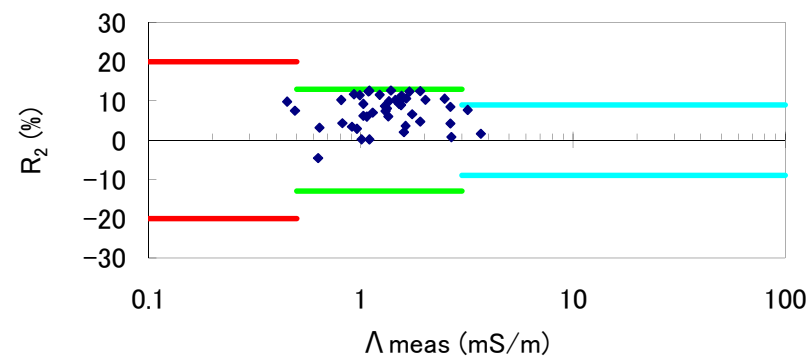


Fig. 3.27 b) Petaling Jaya Conductivity Agreement (R_2)

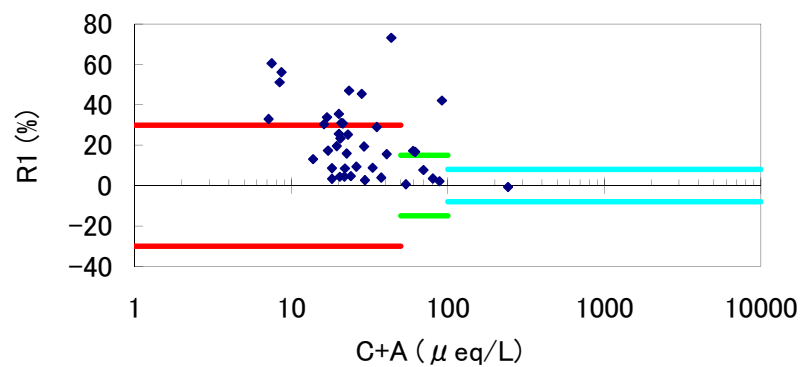


Fig. 3.28 a) Tanah Rata Ion Balance (R_1)

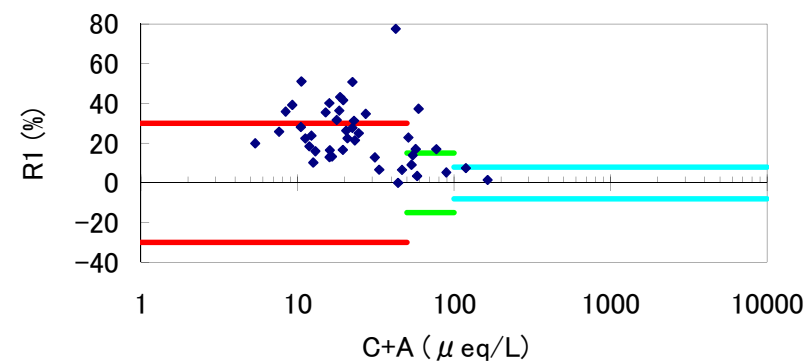


Fig. 3.29 a) Danum Valley Ion Balance (R_1)

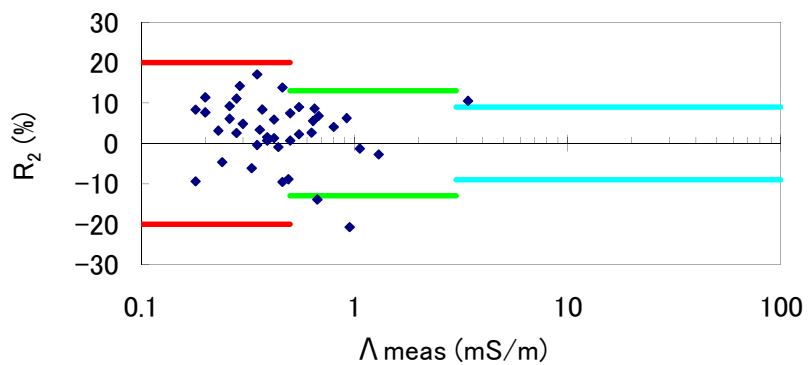


Fig. 3.28 b) Tanah Rata Conductivity Agreement (R_2)

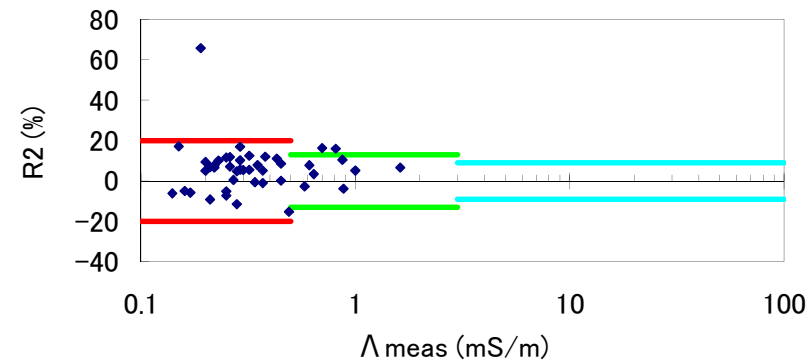


Fig. 3.29 b) Danum Valley Conductivity Agreement (R_2)

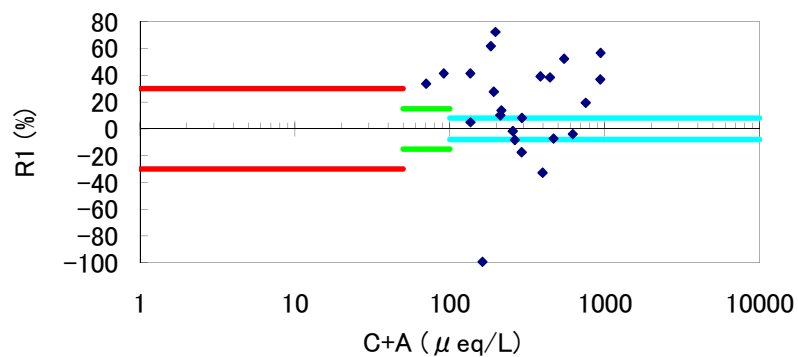


Fig. 3.30 a) Ulaanbaatar Ion Balance (R_1)

Calculated including HCO_3^-

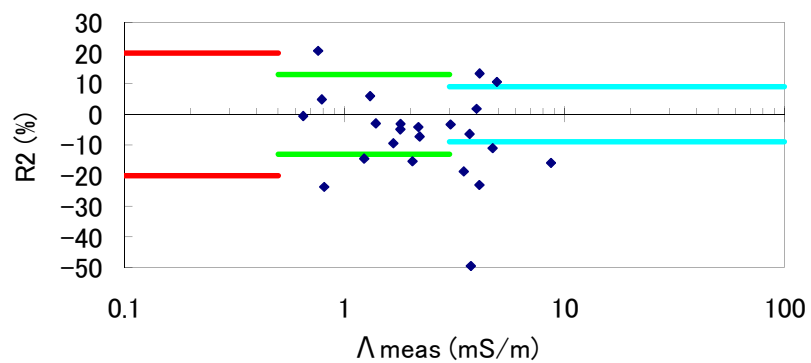


Fig. 3.30 b) Ulaanbaatar Conductivity Agreement (R_2)

Calculated including HCO_3^-

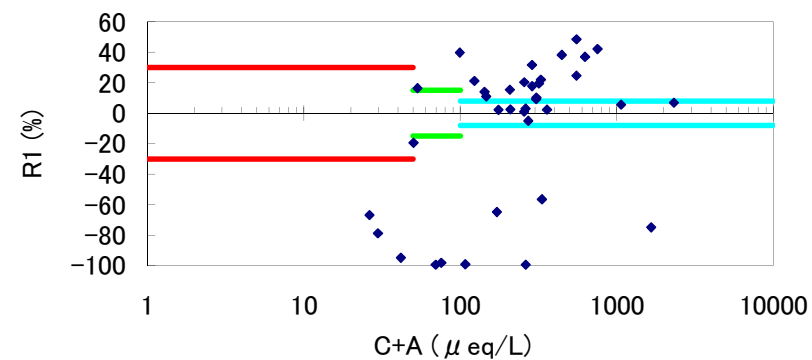


Fig. 3.31 a) Terelj Ion Balance (R_1)

Calculated including HCO_3^-

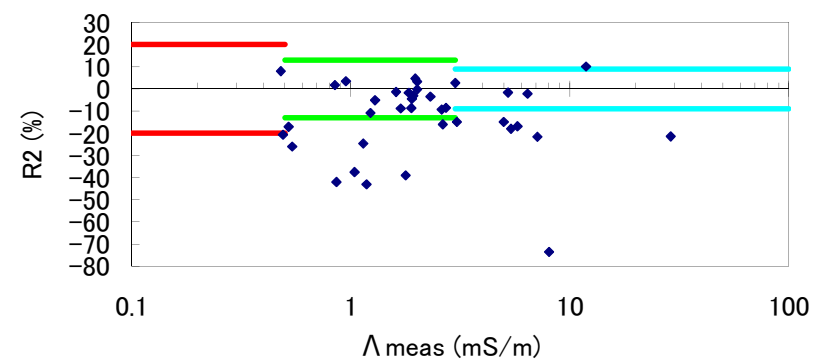


Fig. 3.31 b) Terelj Conductivity Agreement (R_2)

Calculated including HCO_3^-

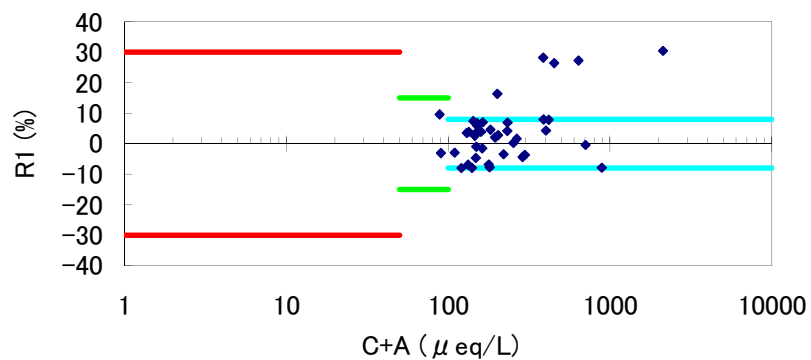


Fig. 3.32 a) Metro Manila Ion Balance (R_1)

Calculated including NO_2^-

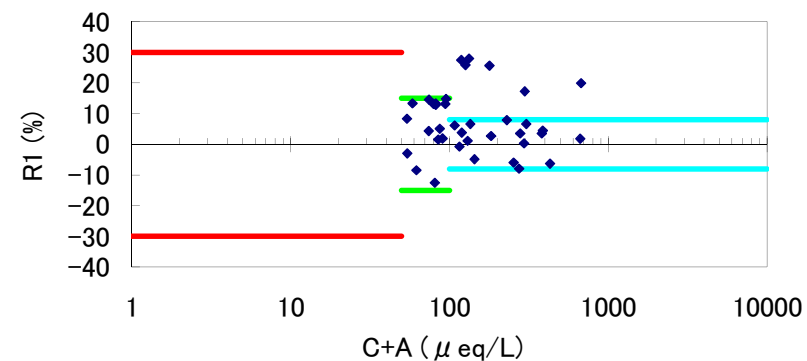


Fig. 3.33 a) Los Banos Ion Balance (R_1)

Calculated including NO_2^-

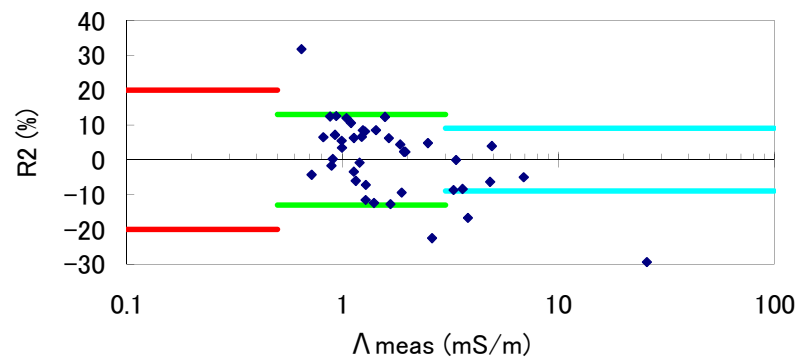


Fig. 3.32 b) Metro Manila Conductivity Agreement (R_2)

Calculated including NO_2^-

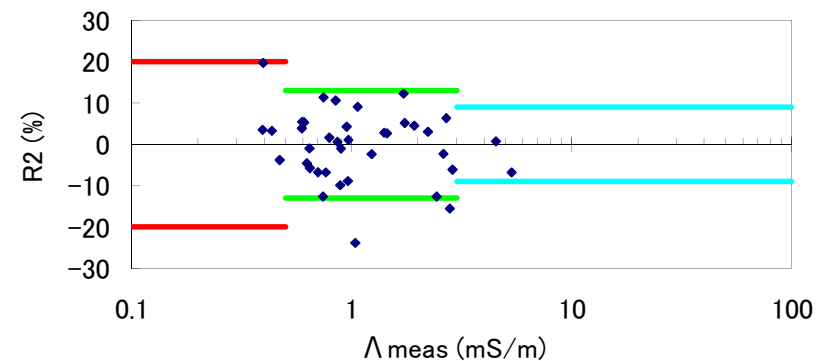


Fig. 3.33 b) Los Banos Conductivity Agreement (R_2)

Calculated including NO_2^-

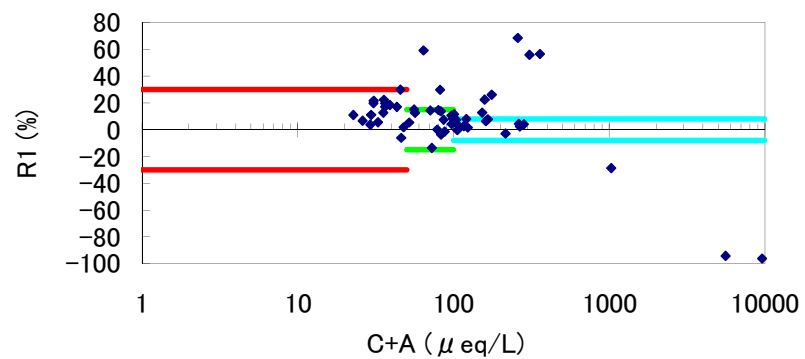


Fig. 3.34 a) Mt. Sto. Tomas Ion Balance (R_1)

Calculated including NO_2^-

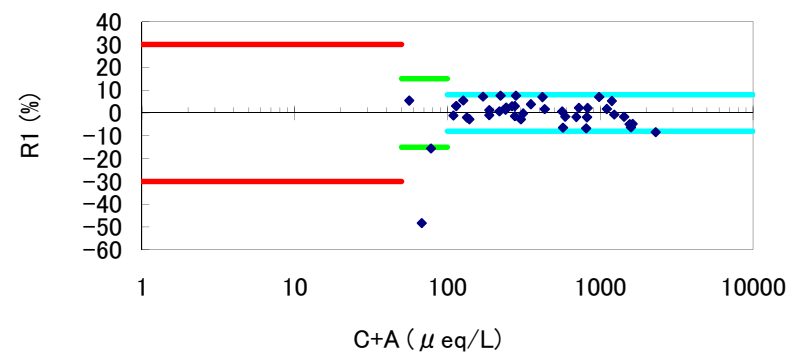


Fig. 3.35 a) Kanghwa Ion Balance (R_1)

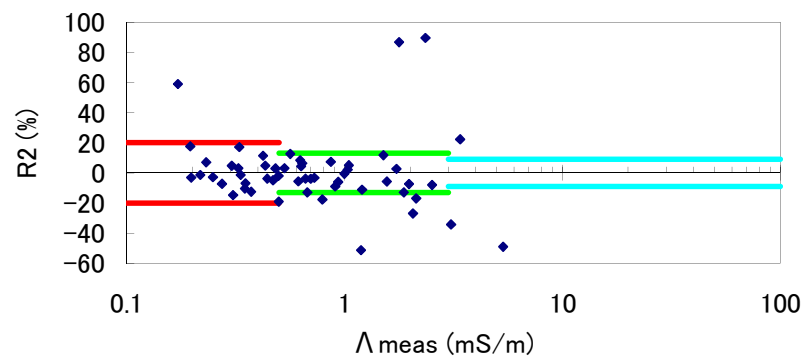


Fig. 3.34 b) Mt. Sto. Tomas Conductivity Agreement (R_2)

Calculated including NO_2^-

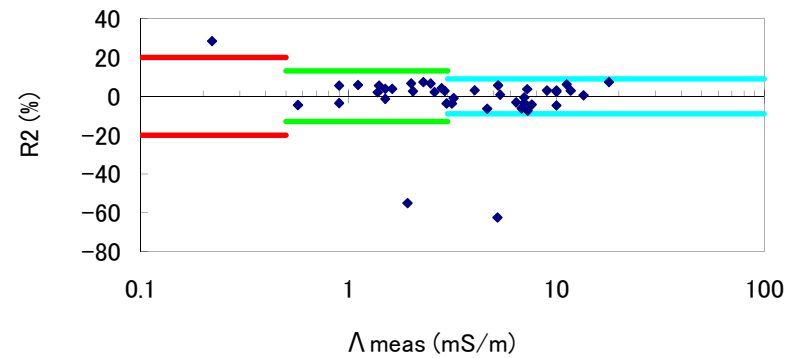


Fig. 3.35 b) Kanghwa Conductivity Agreement (R_2)

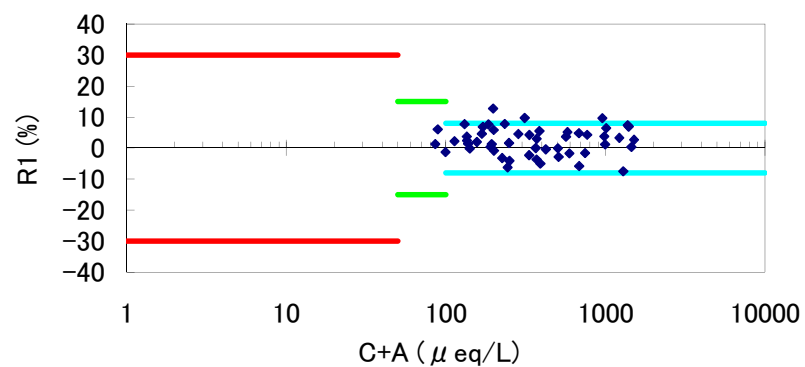


Fig. 3.36 a) Cheju (Kosan) Ion Balance (R_1)

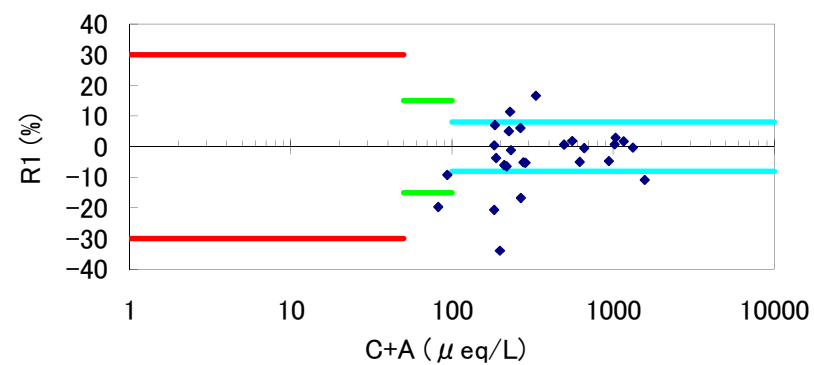


Fig. 3.37 a) Imsil Ion Balance (R_1)

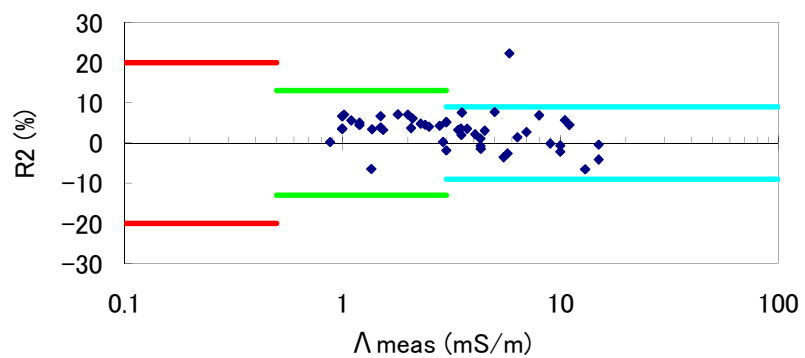


Fig. 3.36 b) Cheju (Kosan) Conductivity Agreement (R_2)

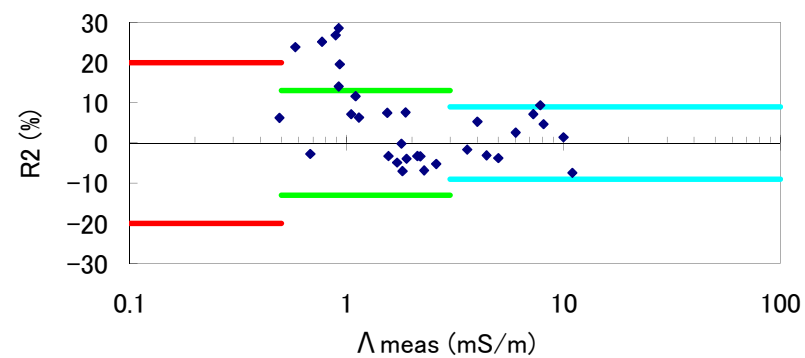


Fig 3.37 b) Imsil Conductivity Agreement (R_2)

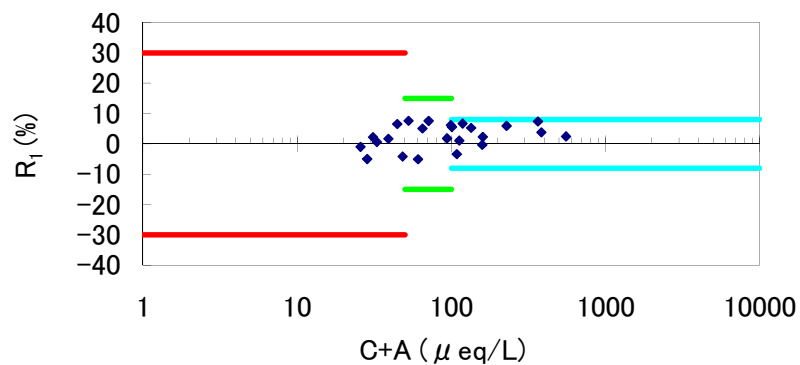


Fig. 3.38 a) Mondy Ion Balance (R_1)

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

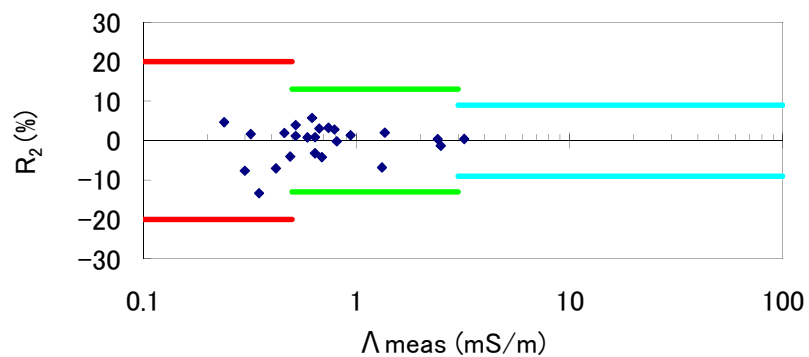


Fig. 3.38 b) Mondy Conductivity Agreement (R_2)

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

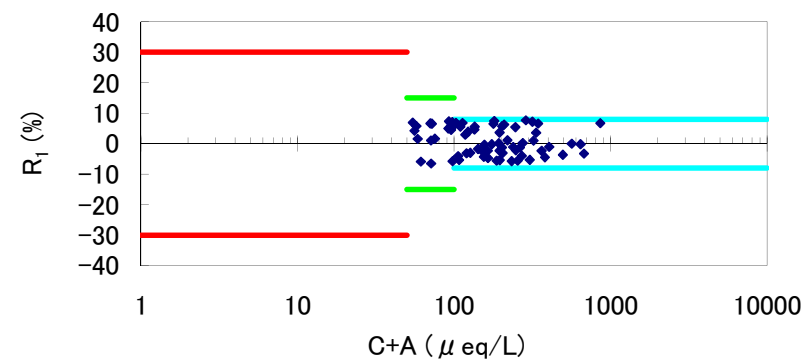


Fig. 3.39 a) Listvyanka Ion Balance (R_1)

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

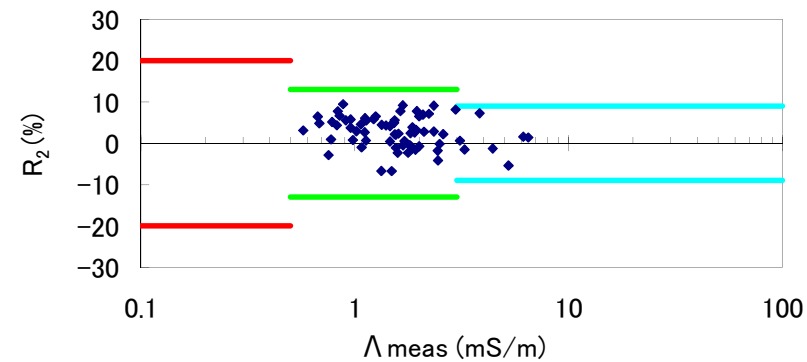


Fig. 3.39 b) Listvyanka Conductivity Agreement (R_2)

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

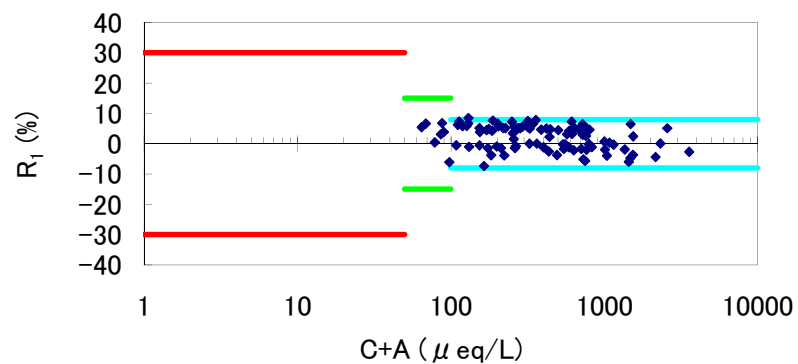


Fig. 3.40 a) Irkutsk Ion Balance (R_1)

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

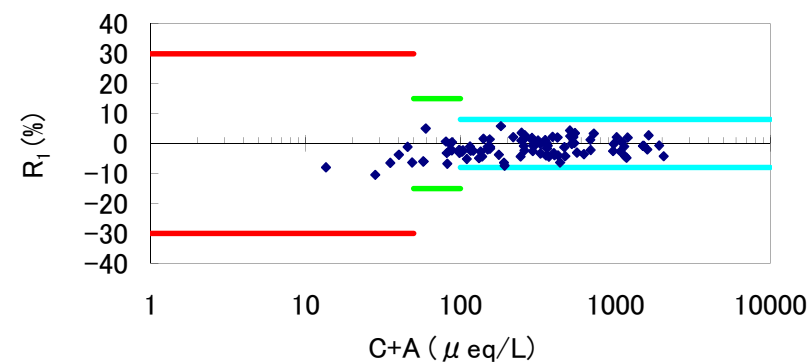


Fig. 3.41 a) Primorskaya Ion Balance (R_1)

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

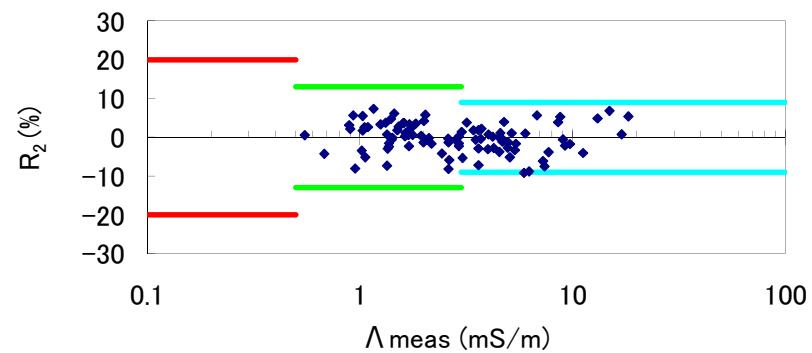


Fig. 3.40 b) Irkutsk Conductivity Agreement (R_2)

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

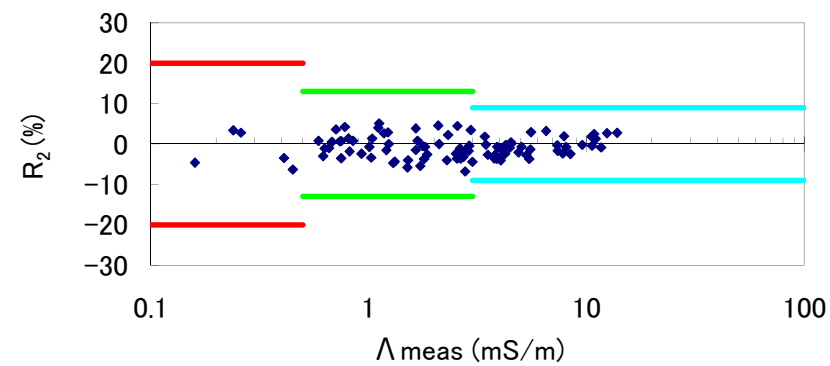


Fig. 3.41 b) Primorskaya Conductivity Agreement (R_2)

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

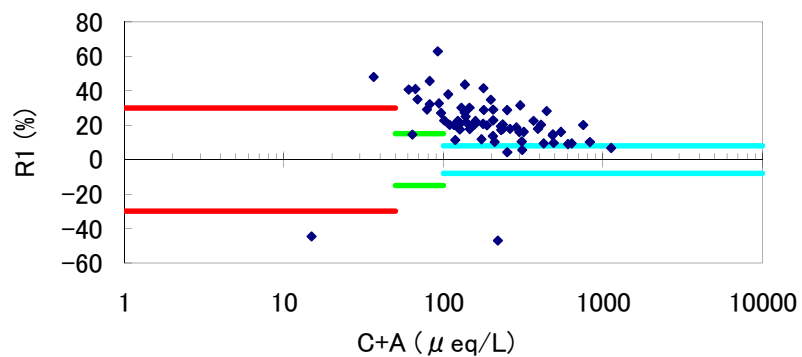


Fig. 3.42 a) Bangkok Ion Balance (R_1)

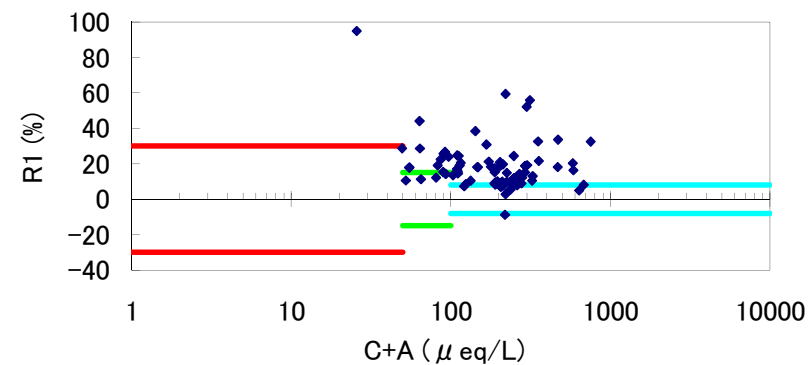


Fig. 3.43 a) Samutprakarn Ion Balance (R_1)

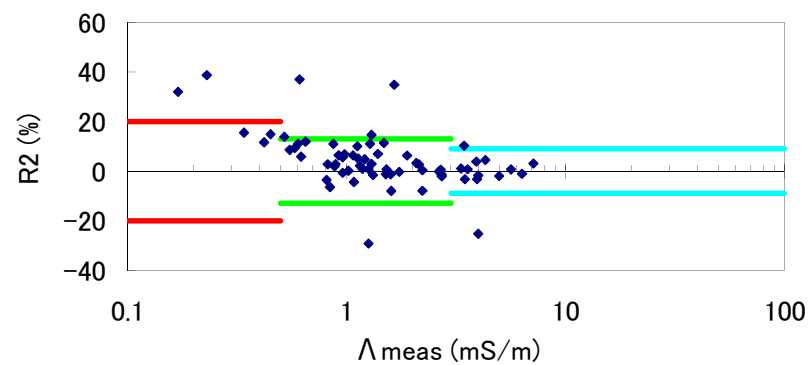


Fig. 3.42 b) Bangkok Conductivity Agreement (R_2)

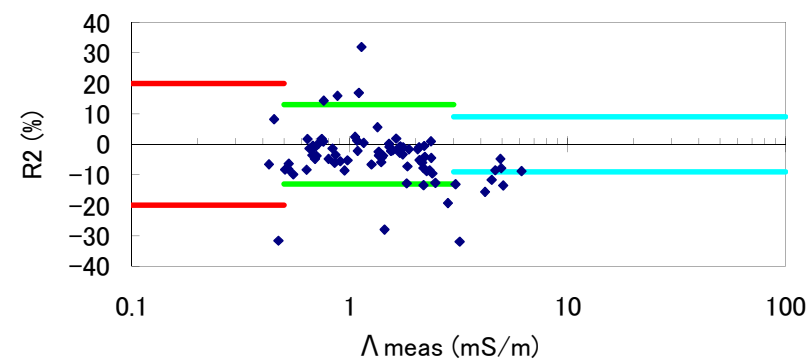


Fig. 3.43 b) Samutprakarn Conductivity Agreement (R_2)

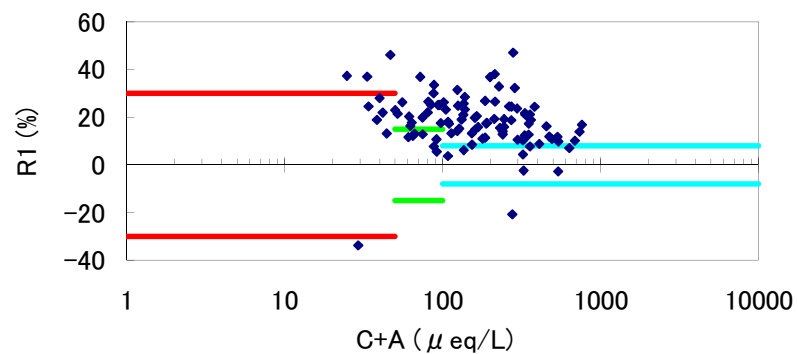


Fig. 3.44 a) Patumthani Ion Balance (R_1)

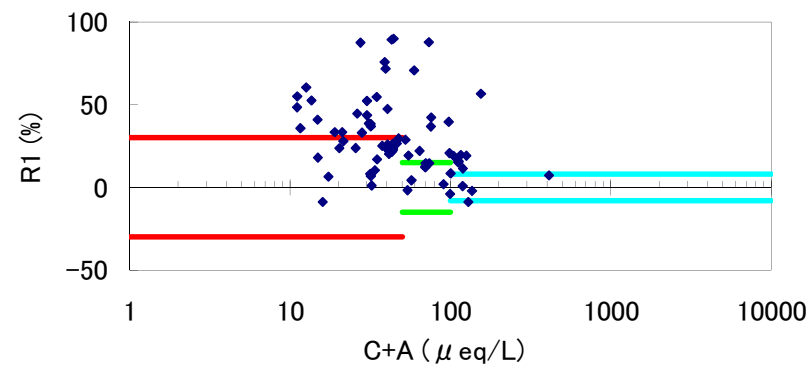


Fig. 3.45 a) Khanchanaburi Ion Balance (R_1)

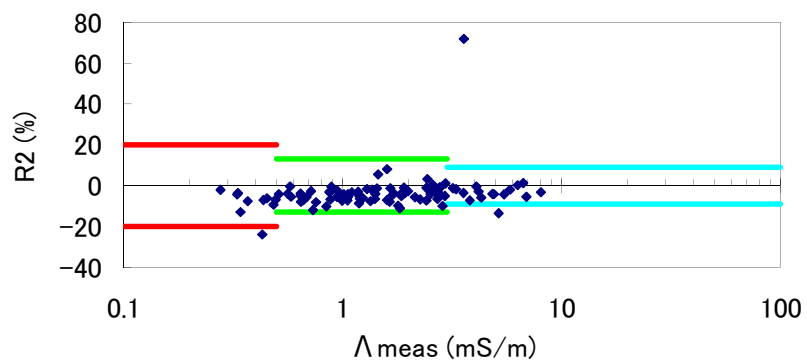


Fig. 3.44b) Patumthani Conductivity Agreement (R_2)

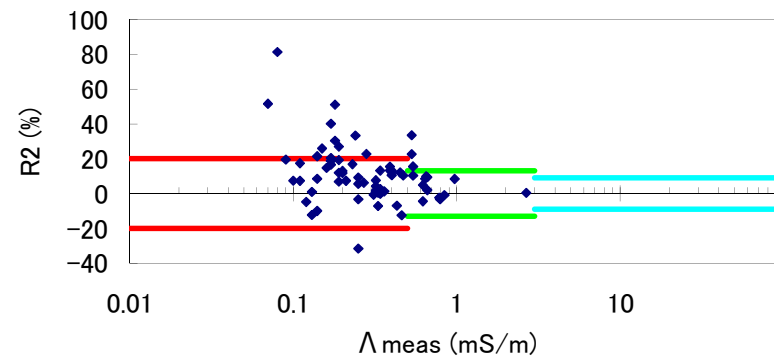


Fig. 3.45 b) Khanchanaburi Conductivity Agreement (R_2)

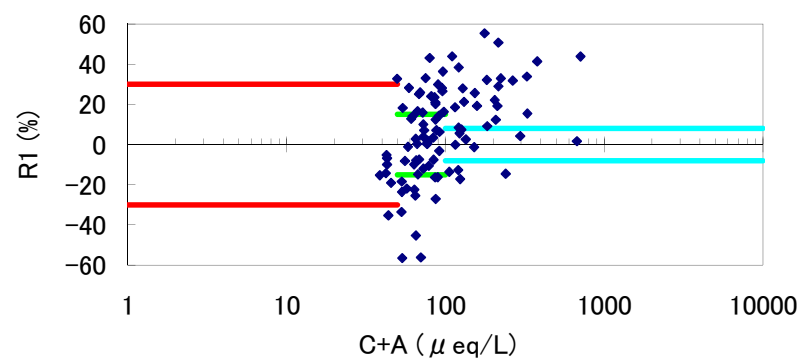


Fig. 3.46 a) Chiang Mai (Mae Hia) Ion Balance (R_1)

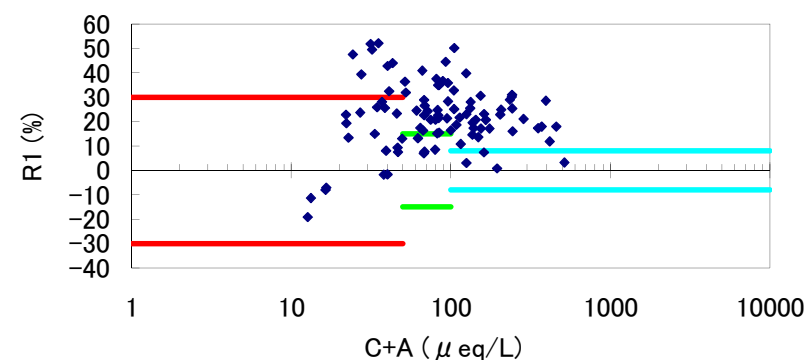


Fig. 3.47 a) Nakhon Ratchasima Ion Balance (R_1)

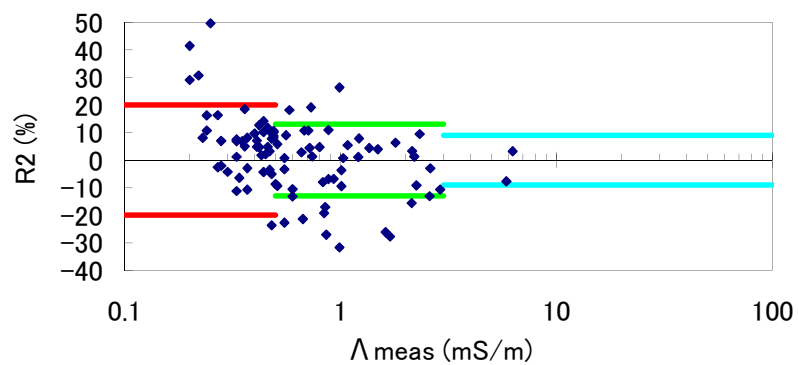


Fig. 3.46 b) Chiang Mai (Mae Hia) Conductivity Agreement (R_2)

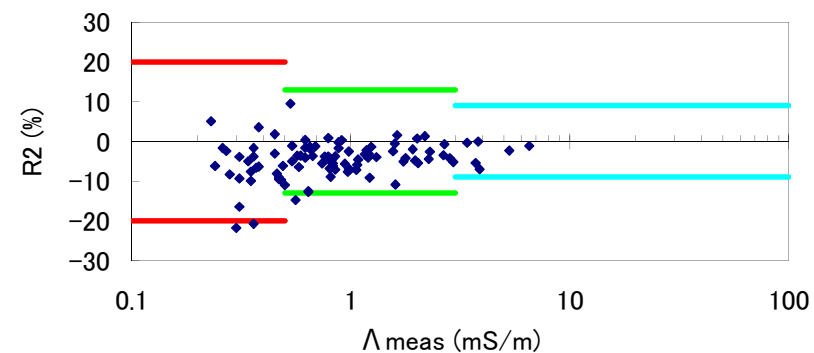


Fig. 3.47 b) Nakhon Ratchasima Conductivity Agreement (R_2)

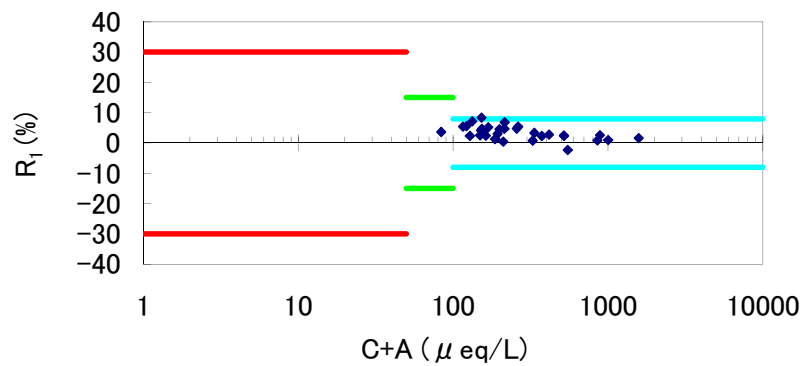


Fig. 3.48 a) Hanoi Ion Balance (R_1)

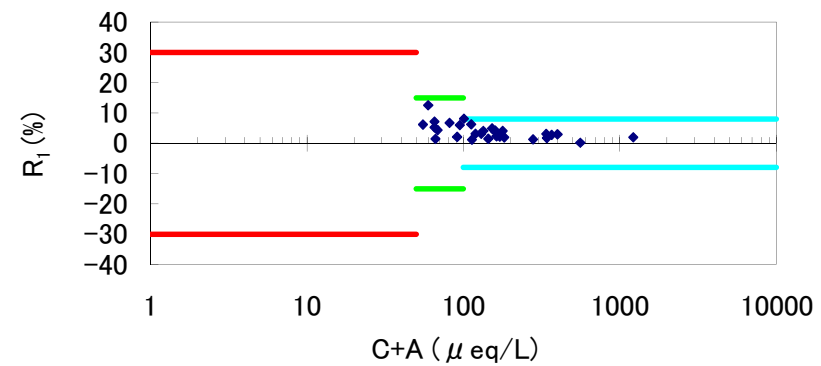


Fig. 3.49 a) Hoa Binh Ion Balance (R_1)

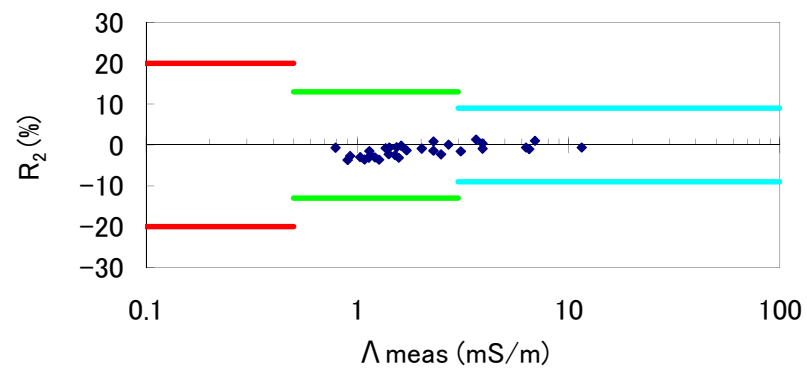


Fig. 3.48 b) Hanoi Conductivity Agreement (R_2)

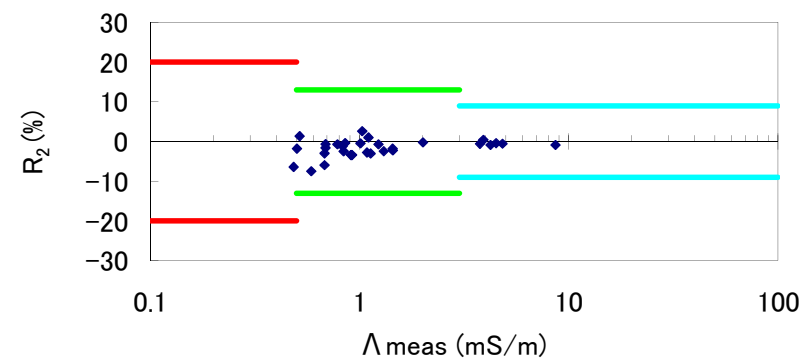


Fig. 3.49 b) Hoa Binh Conductivity Agreement (R_2)

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 2007. 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 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 (SO₂, HNO₃, HCl, NH₃) and particulate 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 2007 are shown in [Table 4.1](#). Automatic monitors were used by China, Japan, Malaysia, Republic of Korea, Russia and Thailand. The individual methods of each site are shown in [Table 4.2](#).

The filter pack methods were used by Indonesia, Japan, Malaysia, Mongolia, Philippines, Republic of Korea, Russia, Thailand and Vietnam in 2007.

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_2CO_3 + 2% glycerin	SO_2 , HCl
4 th (F3)	Impregnated cellulose filter Solution: 5% H_3PO_4 + 2% glycerin	NH_3



Sampling on site

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



Pretreatment of filter pack

Stage	Solvent	Extracted species
F0	Extracted by 20mL deionized water	SO_4^{2-} , NO_3^- , Cl^- , NH_4^+ , Na^+ , K^+ , Ca^{2+} , Mg^{2+}
F1	Extracted by 20mL deionized water	SO_4^{2-} , NO_3^- , Cl^- , NH_4^+
F2	Extracted by 20mL 0.05% H_2O_2	SO_4^{2-} , Cl^-
F3	Extracted by 20mL 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 2007

Country	Name of sites	Characteristics of sites	Method	Parameter
China	Chongqing	Rural	AT	SO ₂ , NO, NO _x *, PM ₁₀
	- Jinyunshan			
	Xiamen	Urban	AT	SO ₂ , NO ₂ , PM ₁₀
	- Hongwen		FP	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
Japan	Rishiri	Remote	AT	SO ₂ , NO, NO _x *, O ₃ , PM _{10/2.5}
			FP	HNO ₃ , HCl, NH ₃ , PMC
	Tappi	Remote	AT	SO ₂ , NO, NO _x *, O ₃ , PM ₁₀
			FP	HNO ₃ , HCl, NH ₃ , PMC
	Sado-seki	Remote	AT	SO ₂ , NO, NO _x *, O ₃ , PM ₁₀
			FP	HNO ₃ , HCl, NH ₃ , PMC
	Happo	Remote	AT	SO ₂ , NO, NO _x *, O ₃ , PM ₁₀
			FP	HNO ₃ , HCl, NH ₃ , PMC
	Ijira	Rural	AT	SO ₂ , NO, NO _x *, O ₃ , PM ₁₀
			FP	HNO ₃ , HCl, NH ₃ , PMC
	Oki	Remote	AT	SO ₂ , NO, NO _x *, O ₃ , PM _{10/2.5}
			FP	HNO ₃ , HCl, NH ₃ , PMC
	Banryu	Urban	AT	SO ₂ , NO, NO ₂ , NO _x , O ₃ , PM ₁₀
			FP	HNO ₃ , HCl, NH ₃ , PMC
	Yusuhara	Remote	AT	SO ₂ , NO, NO _x *, O ₃ , PM ₁₀
			FP	HNO ₃ , HCl, NH ₃ , PMC
	Hedo	Remote	AT	SO ₂ , NO, NO _x *, O ₃ , PM ₁₀
			FP	HNO ₃ , HCl, NH ₃ , PMC
	Ogasawara	Remote	AT	SO ₂ , NO, NO _x *, O ₃ , PM ₁₀
			FP	HNO ₃ , HCl, NH ₃ , PMC
	Tokyo	Urban	FP	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC
Malaysia	Tanah Rata	Remote	AT	SO ₂ , NO, NO _x *, O ₃
			FP	HNO ₃ , HCl, NH ₃ , PMC
	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 2007 (continued)**

Country	Name of sites	Characteristics of sites	Method	Parameter
Republic of Korea	Kanghwa	Rural	AT	SO ₂ , NO ₂ , O ₃ , PM ₁₀
	Cheju (Kosan)	Remote	FP	HNO ₃ , HCl, NH ₃ , PMC in PM _{2.5}
			AT	SO ₂ , NO ₂ , O ₃ , PM ₁₀
	Imsil	Rural	FP	PMC in PM _{2.5}
			AT	SO ₂ , NO ₂ , O ₃ , PM ₁₀
Russia	Mondy	Remote	AT	SO ₂ , NO ₂ , O ₃ , PM ₁₀
			FP	HNO ₃ , HCl, NH ₃ , PMC in PM _{2.5}
	Listvyanka	Rural	AT	O ₃
	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 , PM ₁₀
	Samutprakarn	Urban	FP	HNO ₃ , HCl, NH ₃ , PMC
			AT	SO ₂ , NO, NO ₂ , NO _x , O ₃
	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
	Nakhon Ratchasima	Remote	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 Hongwen in May, 2007 and at Tokyo in April, 2007.

(Note 4) Purposely monitored for 2 weeks and 3 times per year at Khanchanaburi (Vachiralongkorn Dam) due to the site located in remote area.

Table 4.2 Sites using automatic monitors in 2007

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)
	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
Malaysia	Tanah Rata	UVF	CLD	UVP	–
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	-	TEOM
	Samutprakarn	UVF	CLD	UVP	–
	Khanchanaburi	UVF	CLD	UVP	β-ray
	Chiang Mai	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-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,
%	:	monthly or annual percentages of period of available data,

In the [Table 4.3](#) though [Table 4.20](#), the 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 4.21](#).

Detection limit depends on specification of instrument or procedures of sampling and analysis. NC set up expedient detection limits as shown in [Table 4.22](#) taking into account methods adopted by each country. Data under the detection limit were treated as “N.D.” in the tables. Regarding the particulate components measured by filter pack method, the detection limit for particulate components was 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			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
China	Jinyunshan	Mean	19.1	15.8	10.5	6.7	7.7	7.3	2.9	8.1	8.8	11.6	21.7	23.7	12.2
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-d	36.4	45.4	34.5	12.8	18.4	20.3	5.6	18.8	19.9	27.4	49.9	54.4	54.4
		Min-d	9.4	4.5	2.6	2.3	3.4	1.1	1.5	3.4	1.9	2.3	8.6	8.3	1.1
	Hongwen	Mean	18.8	13.4	13.5	13.7	13.0	7.0	7.2	6.7	7.5	7.1	8.4	14.0	10.9
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-d	30.4	30.0	24.0	24.0	24.0	13.5	18.4	13.1	16.5	19.5	18.8	34.9	34.9
		Min-d	9.8	4.1	3.4	2.6	2.3	1.1	N.D.	1.5	1.9	3.0	N.D.	4.1	N.D.
	Xiang Zhou	Mean	10.2	5.8	5.6	7.1	5.3	2.6	2.9	2.9	5.9	7.3	8.6	10.8	6.3
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-d	18.4	13.9	10.5	13.9	19.9	3.8	5.3	6.8	13.1	16.9	14.6	22.1	22.1
		Min-d	3.8	3.4	3.8	3.8	1.9	1.5	1.5	1.9	1.5	2.6	4.1	5.6	1.5
Indonesia	Jakarta	Mean	10.6	17.7	11.3	11.2	10.4	9.1	9.5	9.0	7.7	8.2	11.9	15.4	11.0
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	18.3	24.3	16.7	17.1	11.5	12.6	12.5	10.7	10.5	10.0	17.1	20.6	24.3
		Min-w	3.0	9.0	6.5	8.9	8.2	1.5	6.3	8.3	1.7	6.9	10.0	3.6	1.5
	Serpong	Mean	1.0	0.8	0.9	1.2	1.3	1.2	5.1	0.9	1.3	2.8	1.1	1.2	1.5
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.2	1.0	0.9	1.8	1.7	1.4	8.9	1.3	1.4	3.1	1.5	1.4	8.9
		Min-2w	0.8	0.6	0.9	0.5	0.8	1.0	1.4	0.5	1.1	2.5	0.7	1.1	0.5
	Kototabang	Mean	7.8	4.0	2.5	2.4	4.2	2.1	3.0	2.2	3.3	2.8	2.8	4.6	3.3
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	13.2	5.7	3.9	2.9	5.7	3.1	6.2	3.2	4.7	4.2	4.9	6.7	13.2
		Min-w	4.0	2.3	2.0	1.7	2.8	0.8	N.D.	1.6	1.8	1.2	1.8	2.7	N.D.
Japan	Rishiri	Mean	0.3	0.6	0.2	N.D.	N.D.	0.1	-	-	-	-	0.4	0.5	0.3
		%	98	95	98	98	98	19	0	0	0	0	51	98	54
		Max-d	1.0	2.2	0.5	0.3	0.3	0.3	-	-	-	-	1.2	2.2	2.2
		Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	-	-	N.D.	N.D.	N.D.
	Tappi	Mean	0.6	1.1	0.5	0.3	0.5	0.5	0.3	0.3	0.2	0.4	0.7	1.4	0.5
		%	99	99	99	99	99	88	98	99	98	99	99	99	98
		Max-d	2.6	3.5	1.6	0.7	1.5	2.1	1.8	1.2	0.7	1.1	3.0	8.9	8.9
		Min-d	N.D.	0.1	0.1	N.D.	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	N.D.
	Sado-seki	Mean	0.8	1.1	0.6	0.4	0.8	0.2	N.D.	0.3	0.2	0.3	0.9	1.2	0.6
		%	90	97	98	98	98	84	98	98	97	97	98	98	96
		Max-d	4.2	6.4	4.5	3.2	3.7	0.9	0.3	0.8	0.7	1.1	4.1	4.2	6.4
		Min-d	N.D.	0.3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Happo	Mean †	1.0	1.4	1.1	0.9	1.0	0.3	N.D.	-	0.2	0.3	1.0	1.2	0.8
		%	67	99	98	98	98	96	73	0	49	71	87	69	75
		Max-d	3.1	6.8	8.1	2.8	4.0	1.0	0.2	-	0.7	1.3	6.3	4.4	8.1
		Min-d	0.1	0.4	N.D.	N.D.	N.D.	N.D.	N.D.	-	N.D.	N.D.	N.D.	0.1	N.D.
	Ijira	Mean	0.3	0.5	0.3	0.5	0.7	0.6	0.3	0.4	0.3	0.3	0.2	0.2	0.4
		%	98	98	99	98	99	72	99	99	98	98	90	98	96
		Max-d	1.5	3.2	1.1	1.3	2.8	2.1	2.5	1.7	1.1	1.7	0.5	1.2	3.2
		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.	N.D.
	Oki	Mean	2.0	1.6	1.4	0.8	0.9	0.2	0.1	0.3	0.2	0.3	1.4	2.2	0.9
		%	91	97	91	97	96	95	97	97	98	97	90	97	95
		Max-d	6.3	7.1	9.2	2.1	2.8	1.1	0.8	0.9	0.8	1.3	6.1	7.8	9.2
		Min-d	0.2	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	N.D.
	Banryu	Mean	1.5	1.9	1.8	1.3	1.4	0.5	0.4	0.4	0.6	0.8	1.2	2.2	1.1
		%	82	83	92	96	97	98	98	98	97	98	88	98	94
		Max-d	6.1	9.3	8.7	4.3	4.4	1.1	1.1	2.4	1.2	2.2	4.7	9.9	9.9
		Min-d	0.2	0.7	0.1	0.1	N.D.	N.D.	N.D.	N.D.	0.1	0.1	0.2	0.3	N.D.
	Yusuhara	Mean	2.7	1.9	1.7	1.2	1.4	0.4	0.3	0.3	0.2	0.5	1.5	2.0	1.2
		%	98	98	98	98	98	98	98	98	89	98	98	98	97
		Max-d	10.6	6.3	8.6	4.4	6.6	2.7	1.0	1.0	1.9	1.3	5.0	5.8	10.6
		Min-d	0.3	0.3	0.4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	N.D.
	Hedo	Mean	1.0	0.4	0.3	0.5	0.5	N.D.	0.4	N.D.	N.D.	0.3	0.4	0.7	0.4
		%	77	97	98	96	98	97	92	98	98	97	98	97	95
		Max-d	4.3	2.8	1.9	3.5	2.0	0.3	2.9	0.3	0.4	1.4	1.5	2.5	4.3
		Min-d	0.1	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	0.2	0.3	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.1
		%	97	97	97	95	96	96	95	95	97	97	96	96	96
		Max-d	0.9	2.0	0.8	0.3	0.2	0.1	0.1	N.D.	N.D.	N.D.	0.6	0.4	2.0
		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				1.6	2.8	3.1	2.7	3.0	1.8	1.5	1.7	1.8	2.2
		%				100	100	100	100	100	100	100	100	100	100
		Max-2w				2.0	2.9	3.2	3.2	3.1	2.1	1.6	1.8	2.0	3.2
		Min-2w				1.2	2.7	3.1	2.2	2.9	1.6	1.3	1.6	1.6	1.2

Table 4.3 SO₂

Unit : ppb			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Malaysia	Tanah Rata	Mean	1.5	1.7	2.1	1.5	5.1	1.3	3.2	3.2	1.4	0.6	6.0	11.5	3.3
		%	100	97	100	100	97	100	100	100	100	98	97	100	99
		Max-d	5.5	7.3	9.3	6.5	15.3	3.7	11.0	45.6	3.6	5.7	37.7	65.6	65.6
		Min-d	0.4	0.4	0.1	0.5	0.9	0.3	0.7	0.3	0.2	0.2	0.4	N.D.	N.D.
	Petaling Jaya	Mean	-	-	-	-	2.2	2.4	2.1	1.6	2.3	1.7	1.9	1.9	2.0
		%	0	0	0	0	100	100	100	100	100	100	100	100	67
		Max-w	-	-	-	-	3.0	2.8	2.5	2.4	2.5	2.0	2.3	2.9	3.0
		Min-w	-	-	-	-	1.0	2.2	1.6	0.9	2.1	1.5	1.6	1.4	0.9
	Danum Valley	Mean	0.2	0.2	0.1	0.2	N.D.	N.D.	N.D.	0.1	0.1	N.D.	0.1	N.D.	0.1
		%	100	100	50	100	100	100	100	100	100	100	100	100	96
		Max-2w	0.3	0.3	0.1	0.3	N.D.	N.D.	N.D.	0.1	0.2	0.1	0.2	N.D.	0.3
		Min-2w	0.1	0.1	0.1	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Mongolia	Ulaanbaatar	Mean	12.4	8.9	5.8	2.7	1.6	1.9	1.4	1.7	0.7	-	-	-	4.3
		%	100	100	100	100	100	100	100	100	100	0	0	0	71
		Max-w	14.7	9.7	8.9	2.9	2.0	3.1	2.2	2.7	0.7	-	-	-	14.7
		Min-w	8.9	8.2	3.7	2.1	1.3	1.2	1.0	1.0	0.7	-	-	-	0.7
	Terelj	Mean	1.2	0.8	0.8	0.4	0.2	0.7	0.3	0.2	0.3	0.3	3.8	5.9	1.4
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.4	1.2	0.9	0.5	0.4	1.2	0.3	0.3	0.4	0.3	7.1	11.9	11.9
		Min-2w	1.0	0.3	0.7	0.3	0.1	0.2	0.2	N.D.	0.3	0.3	0.5	1.3	N.D.
Philippines	Metro Manila	Mean	2.3	3.2	3.7	3.7	5.8	2.5	2.4	1.7	1.6	1.9	1.2	-	2.7
		%	100	100	100	100	100	100	100	100	100	100	100	0	92
		Max-w	3.4	4.7	5.6	5.0	8.0	3.5	3.1	2.4	1.9	2.8	1.7	-	8.0
		Min-w	1.1	0.3	2.4	2.5	3.1	1.7	2.1	1.4	1.2	1.3	0.7	-	0.3
	Los Banos	Mean	0.2	N.D.	1.2	0.3	0.8	0.3	0.5	0.5	0.5	0.2	0.6	N.D.	0.4
		%	100	100	100	100	100	100	100	100	100	100	100	50	96
		Max-w	0.3	0.2	4.3	0.4	1.8	0.7	0.7	0.6	0.8	0.5	1.3	N.D.	4.3
		Min-w	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	0.4	N.D.	N.D.	0.2	N.D.	N.D.
	Mt. Sto. Tomas	Mean	0.4	0.1	N.D.	N.D.	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.1
		%	100	100	100	100	100	100	100	100	100	100	100	0	92
		Max-w	1.4	0.2	0.2	N.D.	0.1	0.3	N.D.	0.1	N.D.	0.1	N.D.	-	1.4
		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.
Republic of Korea	Kanghwa	Mean	4.0	3.0	4.0	4.0	4.0	2.0	2.0	2.0	1.0	2.0	3.0	3.0	2.8
		%	96	99	99	97	97	92	99	95	95	99	99	99	97
		Max-d	9.0	4.0	7.0	5.0	5.0	2.0	3.0	3.0	2.0	4.0	5.0	5.0	9.0
		Min-d	2.0	3.0	2.0	2.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0
	Cheju (Kosan)	Mean	4.0	2.0	3.0	3.0	3.0	1.0	1.0	1.0	2.0	1.0	3.0	3.0	2.3
		%	100	98	98	93	97	99	100	99	99	100	56	99	95
		Max-d	12.0	3.0	5.0	7.0	6.0	1.0	2.0	1.0	8.0	2.0	8.0	9.0	12.0
		Min-d	2.0	1.0	2.0	1.0	2.0	N.D.	1.0	1.0	1.0	1.0	1.0	1.0	N.D.
	Imsil	Mean	2.0	1.0	3.0	1.0	2.0	1.0	2.0	1.0	2.0	3.0	3.0	4.0	2.1
		%	99	100	100	100	99	99	100	99	99	99	99	100	99
		Max-d	5.0	2.0	6.0	2.0	3.0	2.0	3.0	2.0	3.0	4.0	3.0	6.0	6.0
		Min-d	2.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0	2.0	3.0	3.0	1.0
Russia	Mondy	Mean	0.4	0.7	0.6	0.4	0.3	N.D.	0.2	N.D.	0.2	0.2	0.2	0.5	0.4
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.6	0.8	0.6	0.4	0.4	N.D.	0.2	N.D.	0.2	0.4	0.2	0.5	0.8
		Min-2w	0.3	0.6	0.6	0.4	0.1	N.D.	0.2	N.D.	0.2	N.D.	0.2	0.5	N.D.
	Listvianka	Mean	2.1	1.6	2.0	1.1	0.5	1.0	0.6	0.4	1.0	1.5	0.6	1.2	1.1
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	3.6	1.9	3.4	1.5	0.8	2.5	0.8	1.0	1.7	1.8	0.9	2.5	3.6
		Min-w	1.2	1.3	0.8	0.7	0.3	0.1	0.3	0.2	0.5	1.1	0.4	0.7	0.1
	Irkutsk	Mean	2.5	1.7	1.9	5.8	0.9	1.8	1.0	3.7	3.3	3.0	2.0	0.1	2.4
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	3.4	3.0	2.8	12.4	1.7	5.2	1.4	9.9	4.6	3.6	3.2	0.2	12.4
		Min-w	1.5	1.0	1.1	1.3	0.4	0.6	0.7	1.3	0.9	1.9	1.1	0.1	0.1
	Primorskaya	Mean	1.7	1.5	0.8	0.6	0.4	0.4	0.3	0.2	0.1	0.3	0.9	1.2	0.7
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.7	1.7	0.8	0.8	0.4	0.5	0.3	0.3	0.1	0.3	1.0	1.4	1.7
		Min-2w	1.6	1.3	0.7	0.4	0.4	0.3	0.2	0.2	0.1	0.2	0.9	1.0	0.1

Table 4.3 SO₂

Unit : ppb			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Thailand	Bangkok	Mean	2.7	1.8	0.8	0.5	0.5	0.5	0.8	0.5	0.5	0.6	0.9	1.0	0.8
		%	39	76	67	70	36	71	81	98	98	99	98	96	77
		Max-d	5.0	4.6	2.5	1.0	1.1	1.3	2.0	1.6	1.1	2.9	1.9	1.7	5.0
		Min-d	N.D.	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.3	N.D.
	Samutprakarn	Mean	4.9	4.1	4.4	6.9	5.4	5.9	7.2	7.6	6.5	5.0	5.3	5.2	5.8
		%	95	43	96	96	87	96	96	96	95	96	95	95	91
		Max-d	12.8	7.5	8.1	13.9	11.7	9.2	12.8	15.4	10.5	12.4	9.0	9.4	15.4
		Min-d	1.0	1.9	3.1	4.8	2.4	3.0	2.7	3.1	2.6	2.8	2.3	2.6	1.0
	Patumthani	Mean	1.7	2.0	1.8	2.7	1.8	1.3	2.1	1.4	1.9	2.1	1.4	1.1	1.8
		%	69	100	100	100	100	100	100	155	100	100	100	100	97
		Max-10d	1.8	2.3	2.0	3.5	2.8	2.1	4.0	2.0	3.0	2.6	2.3	1.1	4.0
		Min-10d	1.6	1.7	1.6	1.6	0.3	0.3	0.7	0.9	0.8	1.7	0.7	1.0	0.3
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	-	0.5	1.8	-	-	1.3	1.4	-	1.9	-	1.3
		%	0	0	0	35	3	0	0	35	1	0	43	0	10
		Max-d	-	-	-	1.9	3.0	-	-	2.4	1.4	-	3.0	-	3.0
		Min-d	-	-	-	N.D.	0.1	-	-	0.9	1.4	-	N.D.	-	N.D.
	Chiangmai (Mae Hia)	Mean	0.7	1.1	1.1	0.5	-	0.7	0.6	1.1	1.6	0.9	0.6	0.6	0.9
		%	81	29	55	13	0	17	26	32	43	16	27	26	30
		Max-d	1.8	1.7	2.5	1.2	-	1.3	1.3	2.7	3.0	1.4	1.4	1.4	3.0
		Min-d	0.2	0.3	0.1	0.2	-	0.3	0.3	0.3	0.3	0.2	0.1	0.3	0.1
	Nakhon Ratchasima	Mean	0.5	0.6	0.5	0.4	0.4	0.5	0.2	0.2	0.3	0.2	0.5	0.1	0.4
		%	100	100	100	100	100	100	100	100	100	67	100	68	94
		Max-10d	0.9	0.7	0.7	0.5	0.6	0.7	0.2	0.3	0.4	0.2	0.7	0.2	0.9
		Min-10d	0.2	0.4	0.4	0.2	0.2	0.1	0.2	N.D.	0.2	0.1	0.3	N.D.	N.D.
Viet Nam	Ha Noi	Mean	1.2	1.1	2.4	2.3	1.9	1.4	1.7	1.6	1.6	1.6	1.9	1.6	1.7
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	1.4	1.4	3.3	2.6	2.5	2.3	1.9	2.0	1.9	2.3	4.0	2.1	4.0
		Min-w	1.0	0.9	1.4	2.1	1.5	0.5	1.3	0.9	1.4	0.9	1.3	1.2	0.5
	Hoa Binh	Mean	1.6	1.6	1.1	1.2	1.5	0.9	0.7	1.1	0.8	1.0	1.6	0.9	1.2
		%	100	100	100	100	100	100	100	100	100	75	100	100	98
		Max-w	1.9	2.2	1.3	1.4	2.1	1.3	0.9	1.7	1.0	1.4	2.5	1.9	2.5
		Min-w	1.3	1.2	0.9	0.9	1.1	0.2	0.5	0.9	0.6	0.4	0.9	0.6	0.2

Appendix: SO₂ concentrations measured by the filter pack method

Japan	Rishiri	Mean	0.3	0.6	0.2	N.D.	0.1	0.1	N.D.	N.D.	N.D.	0.2	0.4	0.4	0.2
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.3	0.7	0.2	N.D.	0.1	0.1	N.D.	0.1	0.1	0.3	0.4	0.6	0.7
		Min-2w	0.2	0.4	0.1	N.D.	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	0.3	0.3	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

% : monthly or annual percentages of period of available data

† : Reference values from January to August data

Table 4.4 HNO₃

Unit : ppb			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
China	Hongwen	Mean					0.9	0.7	0.9	1.4	0.7	0.7	1.0	1.1	0.9
		%					100	100	100	100	100	100	100	100	100
		Max-2w					2.2	1.2	2.0	4.7	0.7	0.9	1.4	2.3	4.7
		Min-2w					N.D.	0.3	N.D.	0.1	0.6	0.2	0.5	0.3	N.D.
Indonesia	Serpong	Mean	0.3	0.4	N.D.	0.3	0.9	N.D.	0.5	0.3	0.4	1.3	0.1	0.6	0.4
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.3	0.5	N.D.	0.4	1.6	N.D.	0.5	0.6	0.6	1.4	0.1	0.9	1.6
		Min-2w	0.3	0.4	N.D.	0.3	0.1	N.D.	0.4	N.D.	N.D.	1.2	0.1	0.2	N.D.
Japan	Rishiri	Mean	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	0.1	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.	N.D.	N.D.	N.D.	0.1	0.4	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	0.4
		Min-2w	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.
	Tappi	Mean	N.D.	N.D.	N.D.	N.D.	0.2	0.7	0.3	0.4	0.1	N.D.	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.	N.D.	N.D.	0.3	0.9	0.3	0.4	0.2	N.D.	N.D.	N.D.	0.9
		Min-2w	N.D.	N.D.	N.D.	N.D.	N.D.	0.4	0.2	0.4	0.1	N.D.	N.D.	N.D.	N.D.
	Sado-seki	Mean	-	0.1	0.1	0.1	0.4	0.6	0.4	0.5	0.2	N.D.	0.1	N.D.	0.2
		%	0	100	100	100	100	100	100	100	100	100	100	100	92
		Max-2w	-	0.2	0.1	0.2	0.5	0.8	0.7	0.5	0.2	0.1	0.1	N.D.	0.8
		Min-2w	-	N.D.	N.D.	N.D.	0.3	0.4	0.2	0.4	0.1	N.D.	N.D.	N.D.	N.D.
	Happo	Mean	0.2	0.4	0.2	0.3	0.5	0.6	0.4	0.6	0.3	0.3	0.3	0.2	0.4
		%	100	100	100	76	100	100	100	100	100	100	100	67	92
		Max-2w	0.3	0.4	0.2	0.5	0.5	0.7	0.5	0.8	0.3	0.3	0.3	0.3	0.8
		Min-2w	0.1	0.3	0.2	0.1	0.4	0.6	0.4	0.5	0.3	0.3	0.3	0.2	0.1
	Ijira	Mean	0.1	0.2	0.2	0.2	0.6	0.6	0.4	0.7	0.4	0.2	0.2	N.D.	0.3
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.2	0.2	0.3	0.3	0.8	0.6	0.5	0.9	0.4	0.3	0.2	0.1	0.9
		Min-2w	N.D.	0.2	0.2	0.2	0.5	0.6	0.3	0.6	0.4	0.2	N.D.	N.D.	N.D.
	Okii	Mean	0.1	0.2	0.2	0.2	0.3	0.2	0.4	0.3	0.1	0.2	0.1	0.1	0.2
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.1	0.2	0.2	0.2	0.4	0.3	0.5	0.3	0.2	0.4	0.2	0.1	0.5
		Min-2w	N.D.	0.2	0.1	0.1	0.3	N.D.	0.3	0.3	N.D.	N.D.	N.D.	N.D.	N.D.
	Banryu	Mean	0.3	0.3	0.3	0.3	0.6	0.4	0.8	0.4	0.2	0.2	0.2	0.3	0.4
		%	100	100	100	100	100	100	100	100	100	100	52	100	96
		Max-2w	0.4	0.3	0.4	0.4	0.7	0.4	0.9	0.5	0.3	0.3	0.2	0.3	0.9
		Min-2w	0.2	0.2	0.2	0.2	0.4	0.4	0.7	0.3	0.2	0.1	0.2	0.3	0.1
	Yusuhara	Mean	0.7	0.7	0.6	0.2	0.7	0.5	0.5	0.4	0.3	0.4	0.5	0.7	0.5
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.9	1.2	0.9	0.3	0.9	0.6	0.8	0.4	0.4	0.5	0.6	0.8	1.2
		Min-2w	0.5	0.3	0.3	0.2	0.6	0.4	0.2	0.3	0.2	0.3	0.4	0.6	0.2
	Hedo	Mean	N.D.	N.D.	N.D.	0.2	0.3	N.D.	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
		%	100	97	100	100	100	100	100	100	100	100	100	60	93
		Max-2w	0.1	0.1	N.D.	0.3	0.3	N.D.	0.4	0.2	N.D.	0.1	N.D.	N.D.	0.4
		Min-2w	N.D.	N.D.	N.D.	N.D.	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Ogasawara	Mean	N.D.	0.1	N.D.	0.1	N.D.	N.D.	0.2	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.	0.4	N.D.	0.1	0.1	N.D.	0.3	N.D.	N.D.	N.D.	N.D.	N.D.	0.4
		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				1.0	1.4	1.7	2.1	2.0	1.0	0.6	0.4	0.2	1.1
		%				100	100	100	100	100	100	100	100	100	100
		Max-2w				1.2	1.5	2.4	2.6	2.5	1.3	0.7	0.5	0.2	2.6
		Min-2w				0.7	1.3	0.9	1.6	1.5	0.8	0.5	0.3	0.2	0.2
Malaysia	Tanah Rata	Mean	1.7	N.D.	0.1	N.D.	0.1	N.D.	N.D.	0.2	0.1	0.1	N.D.	N.D.	0.2
		%	100	100	80	100	100	100	100	100	100	100	100	100	98
		Max-w	6.7	0.1	0.2	0.1	0.2	0.1	N.D.	0.3	0.2	0.3	N.D.	0.1	6.7
		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.
	Petaling Jaya	Mean	-	-	-	-	1.2	0.8	0.6	0.8	0.8	0.5	0.8	0.5	0.7
		%	0	0	0	0	100	100	100	100	100	100	100	100	67
		Max-w	-	-	-	-	1.8	2.1	1.3	1.1	1.4	0.6	1.3	0.9	2.1
		Min-w	-	-	-	-	0.2	0.2	N.D.	0.2	0.1	0.3	0.1	0.3	N.D.
	Danum Valley	Mean	N.D.	N.D.	N.D.	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
		%	100	100	50	100	100	100	100	100	100	100	100	100	96
		Max-2w	N.D.	N.D.	N.D.	0.2	N.D.	N.D.	0.1	N.D.	0.1	0.2	N.D.	N.D.	0.2
		Min-2w	N.D.	N.D.	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Mongolia	Ulaanbaatar	Mean	0.4	0.1	0.2	0.2	0.1	0.2	0.3	0.2	0.2	-	-	-	0.2
		%	100	100	100	100	100	100	100	100	100	0	0	0	71
		Max-w	0.7	0.2	0.3	0.5	0.1	0.4	0.6	0.4	0.2	-	-	-	0.7
		Min-w	0.1	N.D.	0.1	N.D.	0.1	N.D.	0.2	0.2	0.2	-	-	-	N.D.
	Terelj	Mean	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.2	0.2	N.D.	0.1	0.1	0.1	0.1
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.1	N.D.	N.D.	N.D.	N.D.	0.2	0.2	0.3	0.1	0.1	0.2	0.1	0.3
		Min-2w	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.2	N.D.	N.D.	0.1	N.D.	N.D.	N.D.

Table 4.4 HNO₃

Unit : ppb			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Philippines	Metro Manila	Mean	0.2	0.3	0.4	0.5	1.2	0.7	0.4	0.3	0.2	0.2	0.1	-	0.4
		%	100	100	100	100	100	100	100	100	100	100	100	0	92
		Max-w	0.3	0.4	0.5	1.2	2.2	1.2	0.7	0.5	0.5	0.3	0.2	-	2.2
		Min-w	0.1	0.3	0.2	N.D.	0.5	0.1	0.2	N.D.	N.D.	N.D.	N.D.	-	N.D.
	Los Banos	Mean	N.D.	N.D.	N.D.	0.2	0.6	0.2	0.2	N.D.	0.2	N.D.	N.D.	N.D.	0.2
		%	100	100	100	100	100	100	100	100	100	100	100	50	96
		Max-w	N.D.	N.D.	0.2	0.4	1.0	0.6	0.5	0.1	0.6	N.D.	0.1	N.D.	1.0
		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.
	Mt. Sto. Tomas	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	0	92
		Max-w	N.D.	N.D.	N.D.	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.1
		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.
Republic of Korea	Kanghwa	Mean	0.2	0.4	0.4	1.0	1.0	0.7	0.8	1.6	1.0	1.3	0.3	0.3	0.7
		%	13	18	13	17	13	3	6	13	13	13	17	16	13
		Max-d	0.3	0.5	0.7	1.9	1.3	0.7	0.8	2.2	1.2	1.5	0.4	0.6	2.2
		Min-d	0.1	0.1	0.3	0.4	0.8	0.7	0.8	0.9	0.9	1.1	0.2	0.1	0.1
	Imsil	Mean	0.2	0.3	0.7	1.3	0.6	0.5	0.4	0.2	0.4	0.3	0.2	0.2	0.4
		%	13	18	10	13	16	17	19	16	17	6	17	16	15
		Max-d	0.2	0.5	1.1	2.3	1.1	1.0	0.7	0.3	0.8	0.5	0.3	0.3	2.3
		Min-d	0.2	0.1	0.5	0.5	0.3	0.1	0.2	0.1	0.1	0.1	0.2	N.D.	N.D.
Russia	Mondy	Mean	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	N.D.	0.2	N.D.	N.D.	N.D.	N.D.
		%	100	100	100	100	100	100	100	100	100	52	100	100	94
		Max-2w	N.D.	N.D.	N.D.	N.D.	0.1	N.D.	0.1	N.D.	0.2	N.D.	N.D.	N.D.	0.2
		Min-2w	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	N.D.	0.2	N.D.	N.D.	N.D.	N.D.
	Listvianka	Mean	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	N.D.
		%	100	100	100	100	100	100	100	79	100	100	100	100	98
		Max-w	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.3	0.3
		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.	0.3	0.2	0.5	0.2	N.D.	0.3	0.2	N.D.	N.D.	0.2
		%	100	100	100	100	100	100	100	100	77	77	100	100	96
		Max-w	N.D.	N.D.	N.D.	1.0	0.4	1.2	0.2	N.D.	1.0	0.3	0.1	N.D.	1.2
		Min-w	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	0.2	N.D.	N.D.	0.1	N.D.	N.D.	N.D.
	Primorskaya	Mean	N.D.	0.1	0.1	N.D.	0.1	0.2	0.1	0.1	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	0.1	0.1	0.1	0.2	0.1	0.1	N.D.	N.D.	N.D.	N.D.	0.2
		Min-2w	N.D.	0.1	0.1	N.D.	0.1	0.1	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	N.D.
Thailand	Bangkok	Mean	1.4	0.6	0.5	0.3	0.2	0.2	0.2	0.1	0.5	0.4	0.6	0.9	0.5
		%	100	100	100	100	100	100	100	71	100	100	100	100	97
		Max-10d	1.8	0.7	1.1	0.5	0.4	0.4	0.3	0.2	0.8	0.9	1.2	1.0	1.8
		Min-10d	1.0	0.4	N.D.	0.1	N.D.	0.1	0.1	N.D.	0.3	N.D.	0.2	0.7	N.D.
	Patumthani	Mean	2.0	1.4	1.2	1.6	0.2	0.4	0.6	0.2	0.1	0.3	0.8	0.5	0.8
		%	69	100	100	100	100	100	100	155	100	100	100	100	97
		Max-10d	2.3	2.5	1.3	2.1	0.5	0.8	1.5	0.3	0.1	0.4	1.3	0.8	2.5
		Min-10d	1.7	0.2	1.0	1.1	N.D.	N.D.	0.2	N.D.	0.1	0.2	0.3	N.D.	N.D.
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	-	N.D.	-	-	-	N.D.	-	-	0.1	-	0.1
		%	0	0	0	25	0	0	0	42	0	0	52	0	12
		Max-2w	-	-	-	N.D.	-	-	-	N.D.	-	-	0.1	-	0.1
		Min-2w	-	-	-	N.D.	-	-	-	N.D.	-	-	0.1	-	N.D.
	Chiangmai (Mae Hia)	Mean	0.6	1.2	1.3	0.8	0.2	0.1	0.1	0.1	0.2	0.3	0.2	0.6	0.5
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	0.7	1.3	1.6	1.0	0.3	0.2	0.2	0.1	0.2	0.5	0.3	0.7	1.6
		Min-10d	0.6	1.0	0.7	0.6	N.D.	N.D.	N.D.	N.D.	0.1	0.2	0.2	0.6	N.D.
	Nakhon Ratchasima	Mean	0.4	0.6	0.8	0.4	0.2	0.2	0.1	0.1	0.2	0.1	0.3	0.2	0.3
		%	100	100	100	100	100	100	100	100	100	67	100	68	94
		Max-10d	0.6	0.7	0.9	0.5	0.3	0.3	0.2	0.2	0.3	0.1	0.4	0.2	0.9
		Min-10d	0.2	0.5	0.5	0.3	0.1	N.D.	N.D.	N.D.	0.1	0.1	0.2	0.2	N.D.
Viet Nam	Ha Noi	Mean	1.5	1.2	0.8	1.4	1.2	0.6	1.0	1.7	0.8	0.6	0.6	0.4	1.0
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	2.3	2.3	1.0	2.0	2.1	1.4	1.8	2.6	2.0	1.0	1.2	0.6	2.6
		Min-w	0.6	0.8	0.5	0.8	0.4	0.3	0.4	0.9	0.3	0.2	0.3	0.2	0.2
	Hoa Binh	Mean	0.6	0.9	0.4	0.4	0.4	0.2	0.2	0.3	0.2	0.2	0.5	0.2	0.4
		%	100	100	100	100	100	100	100	100	100	75	100	100	98
		Max-w	0.9	1.2	0.7	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.8	0.5	1.2
		Min-w	0.4	0.6	0.3	0.2	0.2	N.D.	N.D.	0.2	0.2	0.2	0.3	0.1	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

% : monthly or annual percentages of period of available data

Table 4.5 HCl

Unit : ppb			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
China	Hongwen	Mean					1.9	1.1	1.1	1.3	1.3	0.8	2.1	2.8	1.5
		%					100	100	100	100	100	100	100	100	100
		Max-2w					4.2	1.6	1.5	2.9	1.8	1.6	3.4	7.4	7.4
		Min-2w					0.7	0.6	0.6	0.6	0.8	N.D.	0.9	1.0	N.D.
Indonesia	Serpong	Mean	2.4	2.1	2.7	1.6	2.8	4.0	1.5	0.2	0.8	0.8	0.5	0.8	1.7
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	2.5	2.1	3.3	2.0	4.2	5.7	2.3	0.2	0.9	1.1	0.9	1.0	5.7
		Min-2w	2.2	2.0	2.0	1.1	1.4	2.3	0.6	0.1	0.7	0.6	0.2	0.6	0.1
Japan	Rishiri	Mean	0.2	0.5	0.3	0.3	0.5	0.8	0.5	0.7	0.4	0.3	0.3	0.3	0.4
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.3	0.6	0.4	0.4	0.7	1.1	0.7	0.9	0.5	0.5	0.4	0.3	1.1
		Min-2w	0.2	0.4	0.3	0.2	0.4	0.5	0.3	0.6	0.3	N.D.	0.2	0.3	N.D.
	Tappi	Mean	0.5	0.7	0.5	0.4	0.9	0.8	0.5	1.0	0.7	0.6	0.5	0.7	0.6
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.6	0.7	0.5	0.5	1.0	0.8	0.6	1.2	0.8	0.7	0.6	0.7	1.2
		Min-2w	0.5	0.6	0.4	0.4	0.7	0.7	0.5	0.9	0.5	0.4	0.5	0.7	0.4
	Sado-seki	Mean	-	1.1	0.8	0.7	1.4	0.8	0.8	1.4	0.9	0.6	0.8	0.7	0.9
		%	0	100	100	100	100	100	100	100	100	100	100	100	92
		Max-2w	-	1.2	1.0	0.8	1.5	1.1	0.8	1.6	1.0	0.6	1.0	0.8	1.6
		Min-2w	-	0.9	0.7	0.5	1.2	0.5	0.7	1.3	0.8	0.5	0.6	0.6	0.5
	Happo	Mean	0.3	0.2	0.2	0.2	0.5	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.2
		%	100	100	100	76	100	100	100	100	100	100	100	67	92
		Max-2w	0.3	0.2	0.2	0.3	0.3	0.2	0.1	0.2	0.2	0.3	0.3	0.2	0.5
		Min-2w	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.1
	Ijira	Mean	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.4	0.3	0.2	0.2	N.D.	0.3
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.2	0.3	0.3	0.3	0.5	0.4	0.3	0.6	0.3	0.2	0.2	0.1	0.6
		Min-2w	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.1	N.D.	N.D.
	Okii	Mean	1.1	1.1	1.2	1.0	1.6	0.5	0.9	1.2	0.9	1.0	1.3	1.2	1.1
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.2	1.2	1.5	1.2	1.9	0.7	0.9	1.4	1.0	1.5	1.3	1.2	1.9
		Min-2w	1.1	0.9	0.8	0.7	1.3	0.4	0.9	1.1	0.7	0.6	1.2	1.1	0.4
	Banryu	Mean	0.8	0.9	0.9	1.0	1.1	0.9	0.8	0.8	0.9	0.7	0.8	0.9	0.9
		%	100	100	100	100	100	100	100	100	100	100	52	100	96
		Max-2w	0.9	1.1	1.1	1.2	1.1	0.9	0.8	1.0	0.9	1.0	0.8	1.0	1.2
		Min-2w	0.7	0.8	0.7	0.8	1.0	0.9	0.7	0.6	0.9	0.5	0.8	0.9	0.5
	Yusuhara	Mean	0.7	0.6	0.4	0.4	0.4	0.2	0.1	0.3	0.3	0.3	0.5	0.6	0.4
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.7	0.8	0.5	0.7	0.4	0.3	0.2	0.4	0.3	0.4	0.5	0.6	0.8
		Min-2w	0.6	0.5	0.3	0.1	0.3	0.2	0.1	0.2	0.3	0.2	0.5	0.6	0.1
	Hedo	Mean	1.1	1.1	0.9	1.3	1.3	0.3	1.2	0.6	0.3	1.0	1.3	0.8	1.0
		%	100	97	100	100	100	100	100	100	100	100	100	60	93
		Max-2w	1.2	1.2	1.1	1.7	1.5	0.4	2.1	1.0	0.5	1.3	1.5	0.8	2.1
		Min-2w	1.0	1.1	0.6	0.9	1.2	0.3	0.3	0.3	0.2	0.6	1.1	0.8	0.2
	Ogasawara	Mean	0.6	1.1	0.7	1.0	0.8	0.6	0.7	0.3	0.2	0.2	0.6	1.0	0.7
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.8	2.4	1.2	1.2	1.3	1.0	0.8	0.4	0.3	0.3	0.8	1.1	2.4
		Min-2w	0.2	0.5	0.5	0.9	0.5	0.3	0.5	0.1	0.2	0.2	0.4	1.0	0.1
	Tokyo	Mean				1.0	1.2	1.0	0.9	1.4	1.4	1.0	0.6	0.3	1.0
		%				100	100	100	100	100	100	100	100	100	100
		Max-2w				1.0	1.3	1.0	0.9	1.5	1.6	1.1	0.8	0.3	1.6
		Min-2w				0.9	1.2	1.0	0.9	1.3	1.2	0.9	0.5	0.3	0.3
Malaysia	Tanah Rata	Mean	0.1	0.2	N.D.	0.1	0.1	N.D.	N.D.	N.D.	0.1	0.2	0.2	0.2	0.1
		%	100	100	80	100	100	100	100	100	100	100	100	100	98
		Max-w	0.3	0.5	0.1	0.2	0.2	N.D.	N.D.	0.2	0.1	0.4	0.5	0.4	0.5
		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.
	Petaling Jaya	Mean	-	-	-	-	1.1	0.6	0.5	0.7	0.8	0.5	0.8	0.6	0.7
		%	0	0	0	0	100	100	100	100	100	100	100	100	67
		Max-w	-	-	-	-	1.3	1.7	0.8	0.8	1.1	0.5	1.3	0.7	1.7
		Min-w	-	-	-	-	1.0	0.2	0.3	0.5	0.4	0.4	0.4	0.4	0.2
	Danum Valley	Mean	0.2	0.2	0.2	0.2	N.D.	N.D.	0.2	0.1	0.2	0.2	0.2	0.3	0.2
		%	100	100	50	100	100	100	100	100	100	100	100	100	96
		Max-2w	0.2	0.3	0.2	0.3	0.1	0.1	0.2	0.1	0.2	0.3	0.4	0.5	0.5
		Min-2w	N.D.	N.D.	0.2	N.D.	N.D.	N.D.	0.1	N.D.	0.2	0.1	N.D.	0.2	N.D.
Mongolia	Ulaanbaatar	Mean	1.8	0.4	0.4	0.9	0.7	0.5	1.8	1.0	1.0	-	-	-	0.9
		%	100	100	100	100	100	100	100	100	100	0	0	0	71
		Max-w	4.6	0.5	0.5	1.2	0.8	0.8	4.2	1.1	1.0	-	-	-	4.6
		Min-w	0.6	0.3	0.3	0.7	0.5	0.3	0.9	0.9	1.0	-	-	-	0.3
	Terelj	Mean	0.4	0.2	0.3	0.5	0.4	1.5	0.7	0.6	0.2	0.2	0.5	0.6	0.5
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.5	0.3	0.4	0.5	0.5	2.6	0.9	0.7	0.3	0.2	0.6	0.7	2.6
		Min-2w	0.3	0.2	0.3	0.4	0.3	0.4	0.5	0.4	0.1	0.2	0.3	0.4	0.1

Table 4.5 HCl

Unit : ppb			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Philippines	Metro Manila	Mean	0.6	0.7	0.9	1.4	0.9	0.5	0.4	0.7	0.4	0.7	0.5	-	0.7
		%	100	100	100	100	100	100	100	100	100	100	100	0	92
		Max-w	0.8	0.8	1.1	2.5	1.4	0.7	0.6	0.9	0.6	0.9	0.8	-	2.5
		Min-w	0.4	0.6	0.6	0.3	0.6	0.2	0.3	0.4	0.2	0.4	0.2	-	0.2
	Los Banos	Mean	0.2	0.2	0.6	1.1	5.1	0.2	0.5	0.2	0.2	0.3	0.5	0.4	0.8
		%	100	100	100	100	100	100	100	100	100	100	100	50	96
		Max-w	0.4	0.5	0.7	3.7	19.9	0.4	1.0	0.4	0.4	0.4	0.7	0.8	19.9
		Min-w	N.D.	N.D.	0.4	N.D.	N.D.	N.D.	0.2	N.D.	N.D.	N.D.	0.1	N.D.	N.D.
	Mt. Sto. Tomas	Mean	0.1	N.D.	0.1	N.D.	0.1	0.1	N.D.	N.D.	N.D.	N.D.	0.1	-	0.1
		%	100	100	100	100	100	100	100	100	100	100	100	0	92
		Max-w	0.3	N.D.	0.2	0.1	0.2	0.2	0.2	0.2	N.D.	0.2	0.3	-	0.3
		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.
Republic of Korea	Kanghwa	Mean	0.2	0.3	0.3	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	0.3	0.2
		%	13	18	13	17	13	3	6	13	13	13	17	16	13
		Max-d	0.3	0.4	0.3	0.1	0.2	N.D.	N.D.	N.D.	N.D.	0.1	0.3	1.2	1.2
		Min-d	0.2	0.2	0.2	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	0.2	N.D.	N.D.	N.D.
	Imsil	Mean	0.2	0.2	0.4	0.3	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	0.1	0.2
		%	13	18	10	13	16	17	19	16	17	6	17	16	15
		Max-d	0.2	0.3	0.7	0.5	0.2	0.1	0.2	0.1	N.D.	N.D.	0.2	0.3	0.7
		Min-d	0.1	0.2	0.3	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	N.D.	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.	N.D.
		%	100	100	100	100	100	100	100	100	100	52	100	100	94
		Max-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.	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.
	Listvianka	Mean	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	N.D.
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.2	0.1	N.D.	N.D.	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	0.2
		Min-w	0.1	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.	0.1	0.1	0.5	0.2	0.3	0.3	N.D.	0.2	0.5	0.2	N.D.	0.2
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.2	0.1	0.2	1.0	0.4	0.7	0.7	0.1	0.4	1.5	0.3	N.D.	1.5
		Min-w	N.D.	N.D.	N.D.	0.2	0.1	0.2	N.D.	N.D.	N.D.	0.1	N.D.	N.D.	N.D.
	Primorskaya	Mean	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.2
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.3	0.2	0.4	0.3	0.2	0.4
		Min-2w	0.1	0.1	0.1	0.1	0.3	0.2	0.3	0.3	0.2	0.1	0.2	0.2	0.1
Thailand	Bangkok	Mean	0.6	2.1	1.5	0.6	0.4	0.6	0.3	0.4	0.4	0.2	0.5	0.8	0.7
		%	100	100	100	100	100	100	100	71	100	100	100	100	97
		Max-10d	0.8	2.9	3.0	0.7	0.5	1.0	0.4	0.5	0.5	0.4	0.7	0.9	3.0
		Min-10d	0.4	1.3	0.7	0.4	0.3	0.4	0.3	0.3	0.3	N.D.	0.5	0.8	N.D.
	Patumthani	Mean	7.8	0.9	1.1	1.4	0.4	0.4	1.7	0.8	0.2	0.4	0.6	0.7	1.2
		%	69	100	100	100	100	100	100	155	100	100	100	100	97
		Max-10d	15.0	1.1	1.3	2.2	0.8	0.5	4.3	1.3	0.2	0.5	0.8	0.8	15.0
		Min-10d	0.7	0.8	0.9	0.8	N.D.	0.2	0.4	0.4	0.1	0.3	0.4	0.6	N.D.
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	-	0.3	-	-	-	0.1	-	-	0.3	-	0.2
		%	0	0	0	25	0	0	0	42	0	0	52	0	12
		Max-2w	-	-	-	0.3	-	-	-	0.1	-	-	0.3	-	0.3
		Min-2w	-	-	-	0.3	-	-	-	0.1	-	-	0.3	-	0.1
	Chiangmai (Mae Hia)	Mean	0.2	0.4	0.4	0.3	0.2	0.1	0.1	N.D.	0.2	0.4	0.1	0.3	0.2
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	0.4	0.5	1.0	0.5	0.3	0.2	0.2	0.1	0.2	0.5	0.2	0.3	1.0
		Min-10d	0.1	0.3	N.D.	0.1	0.1	N.D.	0.1	N.D.	0.2	0.4	N.D.	0.3	N.D.
	Nakhon Ratchasima	Mean	0.3	0.3	0.4	0.4	0.4	0.2	0.3	0.2	0.2	0.3	0.2	0.3	0.3
		%	100	100	100	100	100	100	100	100	100	67	100	68	94
		Max-10d	0.5	0.4	0.5	0.5	0.5	0.3	0.4	0.4	0.2	0.4	0.3	0.4	0.5
		Min-10d	0.2	0.3	0.3	0.3	0.4	0.1	0.2	0.2	0.1	0.3	0.1	0.3	0.1
Viet Nam	Ha Noi	Mean	2.4	1.8	2.4	3.7	2.9	1.9	3.2	3.1	2.4	2.7	2.2	1.8	2.5
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	3.5	3.3	3.4	4.1	4.2	2.6	4.1	3.6	3.8	3.9	3.9	2.0	4.2
		Min-w	1.1	1.1	2.0	3.0	2.1	1.2	2.2	2.8	1.6	1.4	1.4	1.5	1.1
	Hoa Binh	Mean	3.4	2.9	1.6	2.5	2.0	1.4	1.6	1.8	1.6	1.6	2.9	1.4	2.1
		%	100	100	100	100	100	100	100	100	100	75	100	100	98
		Max-w	3.9	3.3	1.9	4.4	2.5	1.7	2.2	2.0	1.7	2.0	7.0	2.2	7.0
		Min-w	3.1	2.3	0.7	1.4	1.8	0.7	0.8	1.5	1.4	1.4	1.4	1.0	0.7

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

% : monthly or annual percentages of period of available data

Table 4.6 NH₃

Unit : ppb			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
China	Hongwen	Mean					11.1	7.9	7.8	12.2	6.9	4.4	7.6	6.2	7.9
		%					100	100	100	100	100	100	100	100	100
		Max-2w					13.7	9.0	13.8	16.7	9.5	12.3	14.3	9.9	16.7
		Min-2w					7.7	6.8	4.7	9.0	5.0	N.D.	1.8	1.4	N.D.
Indonesia	Serpong	Mean	1.0	1.2	5.2	6.6	8.1	13.8	10.7	9.8	12.3	9.8	17.1	8.4	8.5
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.5	1.8	6.4	7.6	15.0	22.7	17.5	13.3	13.7	11.5	18.7	9.2	22.7
		Min-2w	0.6	0.5	3.2	5.7	1.2	4.8	4.0	6.4	10.9	8.1	15.5	7.6	0.5
Japan	Rishiri	Mean	N.D.	0.1	0.1	0.2	0.5	0.9	0.7	0.6	0.6	0.5	0.2	N.D.	0.4
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.1	0.1	0.1	0.3	0.6	1.0	0.8	0.7	0.6	0.6	0.2	N.D.	1.0
		Min-2w	N.D.	N.D.	0.1	0.1	0.3	0.9	0.5	0.6	0.5	0.4	0.1	N.D.	N.D.
	Tappi	Mean	N.D.	0.1	0.1	0.3	0.5	0.5	0.5	0.7	0.7	0.5	0.3	0.3	0.4
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	N.D.	0.1	0.1	0.4	0.5	0.5	0.5	0.7	0.7	0.7	0.4	0.3	0.7
		Min-2w	N.D.	0.1	0.1	0.3	0.5	0.5	0.5	0.7	0.7	0.4	0.3	0.3	N.D.
	Sado-seki	Mean	-	0.2	0.2	0.4	1.1	0.8	0.6	1.2	0.7	0.6	0.6	0.2	0.6
		%	0	100	100	100	100	100	100	100	100	100	100	100	92
		Max-2w	-	0.2	0.2	0.4	1.2	0.8	0.6	1.3	0.8	0.9	0.6	0.2	1.3
		Min-2w	-	0.2	0.2	0.4	0.9	0.8	0.5	1.0	0.7	0.4	0.6	0.2	0.2
	Happo	Mean	0.2	0.2	0.2	0.3	0.7	0.4	0.6	0.6	0.5	0.3	0.2	0.1	0.3
		%	100	100	100	100	100	100	100	100	100	100	100	67	96
		Max-2w	0.2	0.3	0.2	0.4	0.8	0.5	0.7	0.6	0.5	0.3	0.3	0.1	0.8
		Min-2w	0.1	0.1	0.2	0.2	0.6	0.4	0.5	0.6	0.4	0.2	0.2	0.1	0.1
	Ijira	Mean	0.4	0.5	0.9	1.1	1.7	1.6	1.9	2.2	1.9	1.1	0.9	0.3	1.2
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.4	0.5	1.2	1.1	1.8	1.8	2.2	2.6	2.2	1.8	1.2	0.5	2.6
		Min-2w	0.3	0.4	0.7	1.0	1.7	1.4	1.6	1.9	1.7	0.5	0.5	0.2	0.2
	Okii	Mean	0.3	0.5	0.6	0.6	1.3	1.0	1.3	1.2	1.0	1.0	0.4	0.3	0.8
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.4	0.6	0.9	0.6	1.7	1.3	1.8	1.3	1.0	1.6	0.5	0.3	1.8
		Min-2w	0.2	0.4	0.4	0.6	1.0	0.7	0.7	1.0	0.9	0.6	0.4	0.2	0.2
	Banryu	Mean	0.4	0.8	0.7	0.9	1.4	1.3	1.3	1.4	1.3	1.1	0.7	0.5	1.0
		%	100	100	100	100	100	100	100	100	100	100	52	100	96
		Max-2w	0.5	0.8	0.8	0.9	1.5	1.3	1.3	1.5	1.6	1.2	0.7	0.7	1.6
		Min-2w	0.4	0.8	0.5	0.9	1.2	1.3	1.2	1.3	1.1	1.0	0.7	0.4	0.4
	Yusuhara	Mean	0.1	0.2	0.2	0.8	1.3	0.5	0.5	0.6	0.7	0.4	0.3	0.3	0.5
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.2	0.2	0.2	1.0	1.8	0.6	0.6	0.8	0.7	0.5	0.4	0.3	1.8
		Min-2w	N.D.	0.2	0.1	0.5	0.8	0.5	0.5	0.4	0.6	0.3	0.3	0.3	N.D.
	Hedo	Mean	0.4	0.4	0.5	1.3	2.0	1.1	1.8	1.6	1.1	0.8	0.6	0.5	1.0
		%	100	97	100	100	100	100	100	100	100	100	100	60	93
		Max-2w	0.5	0.5	0.5	1.6	2.4	1.2	2.4	1.7	1.1	1.0	0.6	0.5	2.4
		Min-2w	0.3	0.3	0.5	0.9	1.7	0.9	1.3	1.4	1.1	0.7	0.5	0.5	0.3
	Ogasawara	Mean	0.2	0.2	0.5	0.8	0.8	0.6	0.7	0.5	0.4	0.5	0.4	0.4	0.5
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.2	0.3	0.6	0.9	1.0	0.8	0.8	0.5	0.4	0.6	0.5	0.4	1.0
		Min-2w	0.1	N.D.	0.4	0.7	0.6	0.4	0.7	0.5	0.3	0.3	0.4	0.4	N.D.
	Tokyo	Mean				4.1	5.7	6.3	7.1	7.9	6.6	6.0	6.1	5.6	6.1
		%				100	100	100	100	100	100	100	100	100	100
		Max-2w				4.8	6.0	7.2	7.3	8.2	6.8	6.3	6.9	5.8	8.2
		Min-2w				3.4	5.4	5.4	7.0	7.7	6.3	5.5	5.3	5.5	3.4
Malaysia	Tanah Rata	Mean	0.9	1.5	1.0	0.8	0.8	0.7	1.1	1.0	0.9	0.7	0.6	0.6	0.9
		%	100	100	80	100	100	100	100	100	100	100	100	100	98
		Max	1.4	2.2	1.2	1.2	1.0	1.0	2.1	1.1	1.3	1.1	0.7	0.8	2.2
		Min	0.6	1.0	0.8	0.6	0.5	0.5	0.6	0.8	0.6	0.6	0.5	0.3	0.3
	Petaling Jaya	Mean	-	-	-	-	7.8	9.6	7.9	7.3	8.0	7.2	5.7	6.8	7.5
		%	0	0	0	0	100	100	100	100	100	100	100	100	67
		Max-w	-	-	-	-	8.6	12.2	10.9	8.5	10.1	10.7	6.8	9.0	12.2
		Min-w	-	-	-	-	7.2	7.5	5.5	6.4	6.0	5.3	4.5	4.6	4.5
	Danum Valley	Mean	1.4	1.0	0.9	1.1	0.8	0.8	0.9	0.5	0.8	0.9	0.8	0.9	0.9
		%	100	100	50	100	100	100	100	100	100	100	100	100	96
		Max-2w	1.4	1.0	0.9	1.3	1.0	0.8	1.0	0.8	0.9	1.3	1.1	1.0	1.4
		Min-2w	1.3	0.9	0.9	1.0	0.7	0.7	0.8	0.1	0.8	0.6	0.6	0.8	0.1
Mongolia	Ulaanbaatar	Mean	2.9	8.0	11.0	15.1	12.3	8.6	11.2	15.6	N.D.	-	-	-	10.4
		%	100	100	100	100	100	100	100	100	100	0	0	0	71
		Max-w	5.4	11.2	19.0	15.8	15.3	13.4	12.8	21.8	N.D.	-	-	-	21.8
		Min-w	1.6	6.2	3.3	14.1	7.2	4.9	9.5	6.3	N.D.	-	-	-	N.D.
	Terelj	Mean	0.5	0.5	0.8	0.8	2.3	3.0	3.3	2.5	1.0	N.D.	N.D.	0.2	1.3
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.5	0.5	1.2	1.0	2.9	3.5	3.6	3.6	1.0	N.D.	N.D.	0.6	3.6
		Min-2w	0.4	0.5	0.3	0.6	1.9	2.5	2.9	1.5	1.0	N.D.	N.D.	N.D.	N.D.

Table 4.6 NH₃

Unit : ppb			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Philippines	Metro Manila	Mean	7.2	9.0	7.3	6.8	10.4	3.8	5.3	6.1	4.2	6.8	5.7	-	6.6
		%	100	100	100	100	100	100	100	100	100	100	100	0	92
		Max-w	9.0	10.4	9.4	8.0	15.6	5.2	6.3	8.1	7.3	9.2	9.0	-	15.6
		Min-w	6.0	7.5	5.2	4.8	6.3	0.9	3.7	4.9	1.7	4.7	4.3	-	0.9
	Los Banos	Mean	2.6	1.6	3.5	3.0	3.5	1.4	2.6	2.0	2.6	2.4	4.3	1.3	2.7
		%	100	100	100	100	100	100	100	100	100	100	100	50	96
		Max-w	5.3	4.2	4.9	6.7	5.9	2.3	2.9	2.8	4.3	3.1	4.5	2.7	6.7
		Min-w	N.D.	N.D.	2.4	N.D.	1.8	N.D.	2.3	1.6	N.D.	1.4	4.1	N.D.	N.D.
	Mt. Sto. Tomas	Mean	0.6	0.8	1.4	0.8	0.7	1.0	0.7	0.8	1.4	1.5	0.7	-	0.9
		%	100	100	100	100	100	100	100	100	100	100	100	0	92
		Max-w	0.7	1.4	2.3	1.0	0.9	2.0	1.1	2.0	2.4	2.4	1.3	-	2.4
		Min-w	0.4	0.4	0.6	0.6	0.6	0.3	0.5	0.2	N.D.	0.7	0.2	-	N.D.
Republic of Korea	Kanghwa	Mean	11.2	10.8	10.0	9.4	10.8	11.8	28.4	15.0	10.9	9.5	2.0	1.1	9.7
		%	13	18	13	17	13	3	6	13	13	13	17	16	13
		Max-d	12.5	12.6	11.7	13.0	12.3	11.8	35.4	19.0	13.7	11.8	3.9	1.9	35.4
		Min-d	9.1	9.3	6.3	7.6	9.5	11.8	21.3	12.1	8.4	8.3	1.0	0.6	0.6
	Imsil	Mean	7.0	6.9	7.5	6.8	4.6	5.2	4.4	3.4	3.1	1.9	3.4	4.4	5.0
		%	13	18	10	13	16	17	19	13	17	6	17	16	15
		Max-d	9.0	8.6	9.9	9.2	5.6	7.7	6.4	4.9	4.6	2.2	4.1	5.8	9.9
		Min-d	5.4	6.2	6.0	3.4	3.2	1.2	2.5	3.8	0.7	1.6	3.0	2.7	0.7
Russia	Mondy	Mean	1.4	0.8	0.6	0.8	0.9	1.1	1.2	0.9	1.5	0.3	0.1	0.7	0.8
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	2.0	0.8	0.6	1.0	1.0	1.1	1.2	0.9	1.5	0.5	0.1	0.7	2.0
		Min-2w	0.9	0.8	0.5	0.5	0.9	1.1	1.2	0.9	1.5	N.D.	0.1	0.7	N.D.
	Listvianka	Mean	1.7	0.9	0.7	2.6	1.7	4.2	2.5	2.6	2.9	4.0	2.6	4.6	2.5
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	3.5	1.6	1.1	4.9	2.7	9.1	3.3	3.6	5.2	5.4	3.3	7.9	9.1
		Min-w	0.9	0.3	0.5	1.4	0.6	0.9	1.6	1.6	1.5	2.8	1.9	2.8	0.3
	Irkutsk	Mean	3.4	2.3	2.3	10.5	4.5	6.2	3.8	2.3	1.4	3.9	3.4	0.6	3.8
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	4.8	3.6	3.4	20.8	6.4	14.7	6.3	3.3	4.1	5.1	7.0	0.9	20.8
		Min-w	2.4	0.8	1.1	3.4	2.5	3.3	2.4	0.6	0.4	2.9	0.2	0.3	0.2
	Primorskaya	Mean	1.1	1.8	1.3	2.2	3.7	4.1	5.9	5.6	5.3	4.7	3.5	3.6	3.6
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.2	2.1	1.4	2.3	4.7	4.6	6.0	6.0	5.7	5.9	4.0	4.3	6.0
		Min-2w	1.1	1.5	1.2	2.1	2.8	3.6	5.8	5.3	5.0	3.6	3.0	2.9	1.1
Thailand	Bangkok	Mean	12.9	8.4	10.9	9.2	10.4	12.9	6.9	6.6	6.7	6.6	14.7	15.0	10.2
		%	100	100	100	100	100	100	100	71	100	100	100	100	97
		Max-10d	14.2	10.7	13.0	13.1	10.8	19.7	8.6	7.4	8.9	7.1	28.6	34.3	34.3
		Min-10d	12.0	6.0	7.2	2.1	9.8	8.5	4.9	5.8	4.9	6.2	6.7	1.5	1.5
	Patumthani	Mean	11.1	8.6	10.6	10.8	5.9	8.5	5.8	4.1	5.5	13.7	16.9	7.3	9.2
		%	69	100	100	100	100	100	100	155	100	100	100	100	97
		Max-10d	11.3	10.1	16.6	13.2	9.4	10.2	12.6	6.3	6.3	32.2	36.9	7.9	36.9
		Min-10d	10.8	7.5	1.8	7.7	0.5	7.0	1.5	0.3	4.7	3.1	6.1	6.7	0.3
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	-	4.5	-	-	-	2.5	-	-	2.7	-	3.2
		%	0	0	0	25	0	0	0	42	0	0	52	0	12
		Max-2w	-	-	-	4.5	-	-	-	2.5	-	-	2.7	-	4.5
		Min-2w	-	-	-	4.5	-	-	-	2.5	-	-	2.7	-	2.5
	Chiangmai (Mae Hia)	Mean	2.8	6.1	14.4	10.9	3.2	2.1	2.2	1.4	2.8	2.5	3.0	4.9	4.7
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	4.0	9.6	17.6	13.4	3.5	3.6	3.3	3.2	4.0	3.1	3.9	5.7	17.6
		Min-10d	0.5	2.1	11.3	8.7	2.8	0.6	0.4	0.4	0.7	2.1	1.8	3.5	0.4
	Nakhon Ratchasima	Mean	2.7	3.5	3.6	3.4	2.9	2.8	N.D.	2.4	2.0	1.5	1.7	2.7	2.4
		%	100	100	100	100	100	100	100	100	100	67	100	68	94
		Max-10d	3.1	4.0	4.0	3.8	3.3	3.5	N.D.	2.7	2.1	1.5	2.1	2.7	4.0
		Min-10d	2.4	3.1	3.4	2.6	2.6	2.4	N.D.	2.0	1.8	1.5	1.1	2.7	N.D.
Viet Nam	Ha Noi	Mean	3.9	2.7	4.1	4.0	3.0	2.5	3.9	4.4	4.7	5.7	5.3	5.3	4.1
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	4.6	3.0	5.3	4.2	3.8	3.8	4.3	4.7	6.1	5.8	6.6	5.5	6.6
		Min-w	3.4	2.4	3.3	3.7	1.9	1.4	3.5	4.1	4.1	5.4	4.2	4.9	1.4
	Hoa Binh	Mean	2.4	2.1	1.9	2.0	1.9	1.9	2.3	2.4	2.5	2.3	2.8	3.0	2.3
		%	100	100	100	100	100	100	100	100	100	75	100	100	98
		Max-w	2.6	2.8	2.5	2.1	2.1	2.3	2.5	2.7	3.0	2.4	3.1	3.3	3.3
		Min-w	2.1	1.8	1.2	1.7	1.5	1.7	2.1	2.3	2.3	2.0	2.3	2.6	1.2

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

% : monthly or annual percentages of period of available data

Table 4.7 NO

Unit : ppb			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
China	Jinyunshan	Mean	0.7	0.2	N.D.	N.D.	0.2	0.6	N.D.	2.5	5.7	3.9	2.5	1.5	1.5
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-d	3.6	1.6	0.5	N.D.	1.0	2.6	N.D.	6.2	6.8	6.2	5.2	3.1	6.8
		Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	4.7	N.D.	N.D.	0.5	N.D.
Japan	Rishiri	Mean	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	-	-	-	-	N.D.	N.D.	N.D.
		%	98	95	98	98	98	19	0	0	0	0	50	98	54
		Max-d	N.D.	0.1	N.D.	0.2	0.4	0.2	-	-	-	-	0.2	0.2	0.4
		Min-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.	0.1	0.1	0.2	0.2	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
		%	99	99	99	99	98	92	98	99	99	99	99	98	98
		Max-d	0.1	0.1	0.1	0.3	0.7	0.6	1.2	2.1	0.2	N.D.	N.D.	N.D.	2.1
		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.
	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.
		%	90	97	98	98	98	84	98	97	97	97	98	98	96
		Max-d	N.D.	N.D.	N.D.	N.D.	0.1	0.3	0.2	0.2	0.3	N.D.	0.1	0.2	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.	N.D.
	Happo	Mean †	0.1	0.1	0.1	0.1	N.D.	N.D.	N.D.	-	N.D.	N.D.	N.D.	0.1	N.D.
		%	92	99	98	98	98	96	98	0	49	71	87	69	79
		Max-d	0.2	0.6	0.5	0.3	0.2	0.1	0.2	-	0.1	0.2	0.2	0.6	0.6
		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	N.D.	0.2	0.2	0.4	0.1	0.4	0.5	1.2	0.4	0.2	0.2	0.2	0.3
		%	98	99	98	99	99	99	99	99	98	99	90	98	98
		Max-d	0.4	0.5	0.7	1.4	0.3	1.9	2.2	3.6	1.6	0.5	1.1	0.9	3.6
		Min-d	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.
	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.
		%	91	97	93	97	96	95	96	97	97	97	89	97	95
		Max-d	N.D.	0.2	N.D.	0.1	0.1	N.D.	N.D.	0.2	0.2	N.D.	0.1	0.1	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.	N.D.
	Banryu	Mean	0.2	0.3	0.2	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.2
		%	97	89	92	95	97	97	97	98	96	97	88	97	95
		Max-d	0.8	1.0	0.7	0.3	0.5	0.4	1.1	1.2	0.7	0.4	0.6	1.0	1.2
		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.	N.D.
	Yusuhara	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.
		%	98	98	98	98	98	98	97	98	89	98	98	98	97
		Max-d	0.3	0.1	0.1	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	0.2	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.	N.D.
	Hedo	Mean	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.2	0.2	0.1	N.D.	0.1	N.D.	N.D.
		%	76	97	98	97	98	98	93	98	98	98	98	97	96
		Max-d	0.1	0.2	N.D.	0.2	0.2	0.4	0.6	0.6	0.3	0.2	0.2	0.2	0.6
		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	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	96	97	95	96	96	95	96	97	93	97	93	96
		Max-d	0.1	0.2	0.5	0.1	0.2	0.5	0.3	0.3	N.D.	N.D.	0.1	0.1	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.	N.D.
Malaysia	Tanah Rata	Mean	15.9	15.4	12.4	12.5	14.9	14.3	12.2	14.5	9.4	N.D.	N.D.	N.D.	10.1
		%	100	97	100	100	97	100	100	100	100	99	98	100	99
		Max-d	32.9	22.0	17.9	17.5	29.1	22.8	23.6	28.4	25.7	N.D.	N.D.	N.D.	32.9
		Min-d	6.5	7.5	4.7	6.2	7.6	2.9	4.6	1.8	N.D.	N.D.	N.D.	N.D.	N.D.
Thailand	Bangkok	Mean	9.2	9.9	2.4	7.2	9.5	9.7	20.0	14.3	10.4	10.3	11.8	18.1	11.5
		%	39	95	86	71	36	75	95	100	98	98	98	96	82
		Max-d	21.1	60.0	7.2	23.9	23.7	38.2	49.9	66.5	24.0	44.2	38.1	57.1	66.5
		Min-d	N.D.	2.3	0.5	N.D.	2.3	1.9	4.5	4.9	2.9	1.3	3.1	5.3	N.D.
	Samutprakarn	Mean	23.1	11.0	3.8	8.1	14.4	15.8	25.7	24.1	21.0	16.0	14.7	21.7	16.7
		%	95	96	96	96	92	96	96	96	96	96	95	96	95
		Max-d	58.2	71.1	14.6	25.7	31.4	40.9	47.4	41.8	38.3	45.7	37.8	57.2	71.1
		Min-d	2.1	2.6	1.7	2.2	4.8	4.5	4.1	12.4	8.0	1.3	3.3	3.0	1.3
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	-	0.1	0.5	-	-	2.9	5.0	-	2.5	-	1.8
		%	0	0	0	34	11	0	0	35	1	0	42	0	10
		Max-d	-	-	-	0.4	0.9	-	-	5.8	5.0	-	3.1	-	5.8
		Min-d	-	-	-	N.D.	0.4	-	-	0.5	5.0	-	1.3	-	N.D.
	Chiangmai (Mae Hia)	Mean	7.3	1.9	1.9	1.3	1.2	1.1	1.4	2.8	3.5	3.8	4.5	4.9	3.1
		%	81	89	94	60	55	93	74	65	100	90	100	100	82
		Max-d	14.3	3.8	7.5	2.2	2.5	2.6	4.3	4.9	6.3	5.1	8.0	9.7	14.3
		Min-d	3.4	0.4	0.8	0.3	0.5	0.3	0.5	1.6	2.0	2.5	2.7	2.7	0.3

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

† : Reference values from January to August data

Table 4.8 NO₂

Unit : ppb			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
China	Hongwen	Mean	28.4	24.2	27.0	25.8	25.7	16.1	16.1	15.4	23.3	25.4	21.0	24.7	22.9
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-d	41.1	58.8	50.4	48.4	55.6	25.0	34.8	34.3	53.6	34.8	30.2	42.1	58.8
		Min-d	19.2	6.2	9.4	8.8	8.3	3.1	N.D.	2.6	9.4	4.2	8.8	13.0	N.D.
	Xiang Zhou	Mean	25.9	14.5	20.8	20.4	19.3	10.5	10.4	13.4	16.0	21.0	28.9	33.6	19.5
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-d	44.2	27.6	33.8	34.3	43.7	15.6	16.6	21.3	28.1	35.4	39.0	53.0	53.0
		Min-d	13.0	8.3	10.9	11.4	8.8	6.2	5.7	7.8	8.8	8.8	16.6	23.4	5.7
Indonesia	Jakarta	Mean	1.5	1.4	3.9	8.9	3.5	3.0	2.9	3.0	5.1	6.4	6.5	5.1	4.2
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	2.1	2.0	14.6	20.8	7.8	5.8	3.5	5.6	10.3	7.6	9.4	8.0	20.8
		Min-w	1.1	1.0	1.0	2.0	2.2	1.2	2.5	1.3	2.5	3.6	2.9	2.7	1.0
	Kototabang	Mean	-	-	-	0.6	0.6	1.1	0.7	0.9	N.D.	0.8	0.8	0.8	0.7
		%	0	0	0	100	100	100	100	100	100	100	100	100	76
		Max-w	-	-	-	0.8	0.7	3.0	1.0	1.8	0.2	1.2	1.2	1.3	3.0
		Min-w	-	-	-	0.4	0.4	0.3	0.5	0.5	N.D.	N.D.	0.5	0.3	N.D.
Japan	Banryu	Mean	2.2	4.8	4.3	4.0	3.0	2.8	2.3	2.1	2.7	3.2	3.8	4.6	3.3
		%	97	89	92	95	97	91	78	98	96	97	88	97	93
		Max-d	5.1	8.6	7.7	7.1	5.1	4.4	4.0	4.0	5.0	5.5	7.3	9.3	9.3
		Min-d	N.D.	1.7	2.2	1.8	1.3	1.6	N.D.	N.D.	1.7	1.2	1.7	2.3	N.D.
Republic of Korea	Kanghwa	Mean	8.0	9.0	7.0	4.0	5.0	4.0	3.0	4.0	3.0	6.0	6.0	4.0	5.3
		%	96	99	99	97	98	96	99	95	95	99	99	99	98
		Max-d	21.0	17.0	11.0	5.0	6.0	6.0	5.0	9.0	6.0	15.0	17.0	5.0	21.0
		Min-d	3.0	3.0	5.0	3.0	4.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	2.0
	Cheju (Kosan)	Mean	6.0	3.0	5.0	5.0	5.0	3.0	3.0	4.0	4.0	5.0	4.0	4.0	4.3
		%	100	98	98	96	91	100	95	95	99	100	56	98	94
		Max-d	8.0	5.0	6.0	8.0	7.0	7.0	3.0	3.0	5.0	7.0	9.0	6.0	9.0
		Min-d	2.0	2.0	4.0	2.0	4.0	3.0	2.0	3.0	2.0	2.0	1.0	1.0	1.0
	Imsil	Mean	-	-	5.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0	6.0	7.0	4.2
		%	0	0	99	100	99	99	100	99	99	99	99	100	83
		Max-d	-	-	8.0	5.0	6.0	5.0	4.0	4.0	5.0	4.0	12.0	12.0	12.0
		Min-d	-	-	3.0	3.0	1.0	2.0	3.0	3.0	1.0	2.0	3.0	4.0	1.0
Thailand	Bangkok	Mean	31.0	23.6	14.3	17.8	14.4	13.7	13.5	10.8	10.3	13.9	21.3	20.0	16.4
		%	39	95	86	71	36	75	95	100	98	98	98	96	82
		Max-d	49.0	55.3	26.3	27.5	32.6	24.8	35.2	18.4	16.3	19.8	32.0	35.4	55.3
		Min-d	11.0	12.6	11.4	9.0	9.3	8.0	8.5	6.8	7.8	8.8	12.7	11.1	6.8
	Samutprakarn	Mean	31.4	18.7	8.8	15.1	16.7	15.9	17.7	16.2	16.5	21.5	27.9	27.4	19.5
		%	95	96	96	96	92	96	96	96	96	96	95	96	95
		Max-d	53.9	68.9	29.9	43.3	44.7	31.9	36.7	33.8	39.0	37.5	50.1	58.9	68.9
		Min-d	9.7	6.4	4.9	4.4	9.5	7.3	5.7	8.8	9.0	9.8	16.1	7.9	4.4

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

% : monthly or annual percentages of period of available data

Table 4.9 NOx

Unit : ppb			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
China	Jinyunshan	Mean	14.9	8.9	6.8	5.7	5.5	4.3	4.3	6.0	8.3	7.7	11.1	13.8	8.1
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-d	37.4	27.6	14.0	8.3	8.3	10.9	6.8	12.5	11.4	13.5	20.8	28.6	37.4
		Min-d	7.3	2.6	2.6	2.6	2.6	1.6	3.1	2.6	6.2	4.2	6.2	7.3	1.6
Japan	Rishiri (NOx*)	Mean	0.9	1.0	0.9	1.0	0.9	1.3	-	-	-	-	1.1	1.0	1.0
		%	98	95	98	98	98	19	0	0	0	0	50	98	54
		Max-d	1.6	3.3	1.9	1.8	1.9	1.9	-	-	-	-	1.9	2.0	3.3
		Min-d	0.3	0.5	0.4	0.4	0.2	0.8	-	-	-	-	0.5	0.3	0.2
	Tappi (NOx*)	Mean	0.8	1.1	1.1	1.3	1.8	2.1	1.6	1.2	0.9	1.3	0.9	1.2	1.3
		%	99	99	99	99	98	92	98	99	99	99	99	98	98
		Max-d	1.6	2.3	2.8	2.6	7.8	7.4	7.5	7.2	2.4	3.3	1.8	3.0	7.8
		Min-d	0.2	0.3	0.2	0.6	0.3	0.6	0.4	0.2	0.3	0.6	0.3	0.5	0.2
	Sado-seki (NOx*)	Mean	0.9	1.3	1.3	1.4	1.3	1.0	0.8	1.2	0.9	1.1	1.4	1.3	1.2
		%	90	97	98	98	98	84	98	98	97	97	98	98	96
		Max-d	2.2	3.5	3.2	2.3	2.8	3.1	2.2	3.0	2.1	2.8	2.7	2.6	3.5
		Min-d	0.4	0.6	0.4	0.8	0.1	0.3	0.2	0.4	0.2	0.5	0.5	0.7	0.1
	Happo (NOx*)	Mean †	2.3	2.7	2.4	3.1	2.4	2.4	1.7	-	1.4	1.9	2.1	1.8	2.3
		%	92	99	98	98	98	96	98	0	49	71	87	69	79
		Max-d	5.1	5.8	4.6	5.0	5.7	4.4	2.7	-	3.0	5.0	4.4	3.8	5.8
		Min-d	0.9	0.9	0.5	1.0	1.0	0.9	0.7	-	0.4	0.7	0.7	1.0	0.4
	Ijira (NOx*)	Mean	1.9	2.6	2.7	3.6	3.6	3.9	3.2	5.7	3.9	3.0	2.9	1.7	3.2
		%	98	99	98	99	99	99	99	99	99	99	90	98	98
		Max-d	6.4	9.5	11.4	10.2	7.3	8.3	7.7	8.3	8.7	6.9	8.5	8.1	11.4
		Min-d	0.5	0.8	0.5	1.3	0.3	1.4	1.1	2.1	0.7	0.7	0.3	0.2	0.2
	Oki (NOx*)	Mean	1.7	2.0	2.0	2.0	1.7	1.2	0.8	0.8	0.7	1.1	1.7	2.1	1.5
		%	91	97	93	97	96	95	96	97	97	97	89	97	95
		Max-d	3.6	6.3	5.3	3.5	3.5	2.8	1.6	2.4	2.1	2.7	3.7	4.0	6.3
		Min-d	0.8	0.5	0.6	0.8	0.5	0.5	N.D.	0.1	N.D.	0.5	0.6	0.7	N.D.
	Banryu	Mean	2.4	5.1	4.6	4.1	3.1	3.0	2.5	2.4	2.9	3.4	4.1	4.9	3.5
		%	97	89	92	95	97	91	78	98	96	97	88	97	93
		Max-d	5.9	9.6	8.1	7.4	5.3	4.6	5.1	5.3	5.2	5.7	7.5	9.7	9.7
		Min-d	0.7	1.8	2.3	1.9	1.4	1.7	0.6	0.6	1.8	1.2	1.9	2.5	0.6
	Yusuhabara (NOx*)	Mean	2.2	2.0	2.1	1.3	1.0	0.4	0.6	0.2	0.7	1.2	2.0	2.5	1.3
		%	98	98	98	98	98	98	97	98	89	98	98	98	97
		Max-d	4.9	3.2	7.4	2.5	1.8	1.0	2.0	0.9	1.6	2.0	4.8	3.9	7.4
		Min-d	0.4	0.8	0.4	N.D.	0.2	N.D.	N.D.	N.D.	N.D.	0.5	0.8	1.1	N.D.
	Hedo (NOx*)	Mean	0.9	0.5	0.3	0.5	0.3	0.4	1.2	0.4	0.3	0.4	0.4	0.6	0.5
		%	76	97	98	97	98	98	93	98	98	98	98	97	96
		Max-d	2.2	1.2	1.0	1.3	1.2	1.2	2.8	1.2	0.9	1.0	1.1	1.6	2.8
		Min-d	0.1	0.1	N.D.	N.D.	N.D.	0.1	0.6	0.1	N.D.	N.D.	0.1	N.D.	N.D.
	Ogasawara (NOx*)	Mean	0.9	1.3	0.8	0.4	0.3	0.3	0.5	0.1	N.D.	N.D.	0.3	0.6	0.5
		%	97	96	97	95	96	96	95	95	95	93	95	93	95
		Max-d	3.2	3.4	2.5	1.4	1.7	2.0	3.0	0.7	0.2	0.2	2.1	2.3	3.4
		Min-d	0.2	0.4	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Malaysia	Tanah Rata (NOx*)	Mean	18.8	18.7	15.7	14.3	17.5	17.0	15.4	18.1	11.5	N.D.	N.D.	N.D.	12.2
		%	100	97	100	100	97	100	100	100	100	99	98	100	99
		Max-d	36.4	26.1	21.2	19.2	33.8	27.5	26.3	35.4	30.0	N.D.	N.D.	N.D.	36.4
		Min-d	10.3	10.4	7.0	7.5	8.3	3.6	6.0	3.4	N.D.	N.D.	N.D.	N.D.	N.D.
Thailand	Bangkok	Mean	40.4	33.6	16.7	25.1	23.9	23.5	33.7	25.2	20.7	24.4	33.5	38.4	28.1
		%	39	95	86	71	36	75	95	100	98	98	98	96	82
		Max-d	62.7	115.8	33.7	47.1	43.3	53.5	68.3	83.4	34.0	56.5	71.0	92.5	115.8
		Min-d	12.0	14.9	12.1	10.0	11.7	9.8	14.4	13.8	12.5	10.3	18.4	16.1	9.8
	Samutprakarn	Mean	54.5	29.7	12.6	23.2	31.1	31.8	43.5	40.3	37.5	37.5	42.5	49.1	36.2
		%	95	96	96	96	92	96	96	96	96	96	95	96	95
		Max-d	107.5	140.2	44.4	67.3	67.0	57.6	70.7	64.0	55.8	65.2	87.9	116.2	140.2
		Min-d	14.1	9.7	7.2	7.3	17.2	11.8	10.2	21.1	19.8	18.2	20.7	12.3	7.2
	Khanchanaburi (Vachiralongkorn Dam) (NOx*)	Mean	-	-	-	1.6	1.9	-	-	2.9	4.9	-	4.6	-	3.0
		%	0	0	0	34	11	0	0	35	1	0	42	0	10
		Max-d	-	-	-	2.6	2.1	-	-	5.6	4.9	-	5.7	-	5.7
		Min-d	-	-	-	0.8	1.5	-	-	0.6	4.9	-	3.9	-	0.6
	Chiangmai (Mae Hia) (NOx*)	Mean	23.2	19.4	25.5	11.2	4.8	6.6	6.1	7.9	9.3	9.5	9.6	13.2	12.6
		%	100	100	97	100	71	100	77	74	100	90	90	100	92
		Max-d	32.3	27.0	42.4	19.3	9.5	10.2	13.1	11.7	13.0	11.8	17.5	22.6	42.4
		Min-d	12.0	8.3	12.5	3.7	1.8	3.3	2.6	4.6	5.2	6.3	5.9	7.4	1.8

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

† : Reference values from January to August data

NOx* : NOx measured by CLD at remote or rural sites

Table 4.10 O₃

Unit : ppb			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Japan	Rishiri	Mean	40	45	50	54	51	48	-	-	-	-	39	41	46
		%	98	95	98	98	98	19	0	0	0	0	50	98	54
		Max-d	47	57	62	64	67	59	-	-	-	-	48	48	67
		Min-d	35	39	44	46	36	39	-	-	-	-	34	35	34
	Tappi	Mean	49	55	61	67	66	57	41	50	51	53	49	50	54
		%	99	99	99	97	99	90	99	99	98	99	99	99	98
		Max-d	57	70	72	80	95	81	61	77	63	64	62	53	95
		Min-d	41	45	54	56	46	37	21	32	37	46	39	44	21
	Sado-seki	Mean	42	48	54	60	65	53	38	43	43	47	44	43	48
		%	90	97	97	97	98	87	97	98	97	97	98	98	96
		Max-d	51	60	73	97	87	72	53	64	59	55	59	48	97
		Min-d	37	40	46	48	38	44	30	25	19	41	37	37	19
	Happo	Mean †	58	69	71	83	82	74	56	-	41	45	48	47	63
		%	90	97	98	98	98	95	98	0	49	71	87	68	79
		Max-d	68	90	100	100	110	87	84	-	51	57	65	52	110
		Min-d	50	56	53	60	59	53	36	-	17	36	40	37	17
	Ijira	Mean	17	36	40	50	61	40	32	32	28	32	26	20	35
		%	87	90	99	99	99	99	99	99	99	99	88	99	96
		Max-d	28	59	59	95	99	67	59	66	44	49	51	36	99
		Min-d	6	15	17	7	25	8	9	14	10	12	13	9	6
	Oki	Mean	40	46	51	58	62	47	34	34	39	42	44	40	45
		%	91	96	93	98	97	96	95	97	98	97	93	97	96
		Max-d	47	56	81	84	94	57	49	58	58	51	54	47	94
		Min-d	35	38	40	43	38	24	24	20	17	30	35	36	17
	Banryu	Mean	27	34	39	47	55	38	29	20	26	31	30	31	34
		%	97	89	92	96	97	98	98	98	97	98	88	98	96
		Max-d	41	48	55	72	75	52	46	44	37	50	45	40	75
		Min-d	15	15	26	23	32	24	11	6	11	17	16	15	6
	Yusuhara	Mean	39	45	50	58	58	39	37	21	26	37	36	36	40
		%	99	99	99	98	99	99	99	99	89	99	99	99	98
		Max-d	45	62	70	74	91	55	55	40	46	48	49	43	91
		Min-d	28	35	41	42	34	21	13	7	8	22	22	30	7
	Hedo	Mean	45	46	48	55	51	25	18	15	21	41	46	44	38
		%	79	99	99	98	99	99	94	99	99	99	99	99	97
		Max-d	54	55	61	77	76	54	33	26	53	60	58	50	77
		Min-d	40	35	20	11	15	9	8	8	8	10	25	34	8
	Ogasawara	Mean	41	45	49	48	39	26	12	10	16	25	31	40	32
		%	98	97	97	95	96	96	95	96	97	97	97	96	96
		Max-d	46	61	63	69	64	58	32	16	44	51	50	48	69
		Min-d	30	39	37	9	12	7	5	4	7	12	9	33	4
Malaysia	Tanah Rata	Mean	14	13	16	9	11	13	14	15	17	17	18	17	15
		%	100	97	100	100	96	100	100	100	100	99	98	100	99
		Max-d	30	21	27	15	17	20	26	22	34	27	28	32	34
		Min-d	7	7	8	6	6	10	5	9	10	10	12	10	5
Republic of Korea	Kanghwa	Mean	32	37	43	58	69	47	42	33	40	40	35	34	43
		%	96	99	99	97	98	96	98	95	95	99	99	99	97
		Max-d	40	49	56	69	82	53	59	55	52	46	42	38	82
		Min-d	22	25	20	49	61	39	22	21	27	33	23	31	20
	Cheju (Kosan)	Mean	33	30	35	44	59	45	32	24	35	45	38	34	38
		%	100	98	97	100	97	100	100	100	100	100	56	89	95
		Max-d	35	34	40	53	76	58	54	42	79	55	46	37	79
		Min-d	30	26	26	37	50	24	16	11	18	33	28	30	11
	Imsil	Mean	17	25	39	47	52	34	29	19	28	25	24	21	30
		%	100	100	100	100	99	97	98	99	99	99	99	100	99
		Max-d	23	28	50	53	74	54	48	23	50	27	40	29	74
		Min-d	7	19	28	43	40	21	20	16	18	21	12	13	7
Russia	Mondy	Mean	37	37	42	46	43	44	41	32	34	33	-	-	39
		%	100	100	94	100	100	100	100	100	100	87	0	0	82
		Max-d	41	40	47	57	55	54	51	39	44	39	-	-	57
		Min-d	33	35	37	40	32	31	29	21	23	24	-	-	21

Table 4.10 O₃

Unit : ppb			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Thailand	Samutprakarn	Mean	11	5	10	12	12	18	12	11	13	16	24	20	14
		%	95	96	96	96	92	96	96	96	96	96	95	96	96
		Max-d	18	13	23	27	21	29	22	18	33	39	42	32	42
		Min-d	3	2	4	4	4	10	5	3	7	2	11	14	2
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	-	3	-	-	-	2	N.D.	-	12	-	7
		%	0	0	0	22	0	0	0	33	1	0	44	0	8
		Max-d	-	-	-	3	-	-	-	4	N.D.	-	20	-	20
		Min-d	-	-	-	2	-	-	-	N.D.	N.D.	-	4	-	N.D.
	Chiangmai (Mae Hia)	Mean	20	25	38	41	23	18	15	15	17	17	18	23	23
		%	87	100	97	100	100	97	77	97	100	100	90	100	95
		Max-d	35	36	46	50	35	24	22	25	32	28	32	29	50
		Min-d	10	14	29	31	12	11	6	9	8	11	10	16	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

† : Reference values from January to August data

Table 4.11 PM₁₀

Unit : µg/m ³			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
China	Jinyunshan	Mean	82	77	58	55	64	51	32	49	63	58	88	98	65
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-d	144	187	134	136	134	92	54	107	128	120	149	197	197
		Min-d	27	12	2	11	23	15	11	21	18	7	11	18	2
	Hongwen	Mean	96	85	102	98	86	34	45	35	72	66	59	78	71
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-d	194	160	150	178	163	84	86	70	148	96	111	129	194
		Min-d	36	14	27	14	25	N.D.	N.D.	N.D.	27	31	22	22	N.D.
	Xiang Zhou	Mean	81	55	49	51	52	29	27	28	46	58	57	62	50
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-d	118	108	93	76	78	58	39	60	100	89	82	115	118
		Min-d	48	36	35	35	33	16	15	17	17	30	37	42	15
Japan	Rishiri	Mean	10	17	14	15	16	18	-	-	-	-	-	14	14
		%	88	85	88	88	88	17	0	0	0	0	0	11	38
		Max-d	19	51	52	54	47	25	-	-	-	-	-	26	54
		Min-d	4	5	5	6	5	13	-	-	-	-	-	2	2
	Tappi	Mean	14	23	21	20	23	13	9	16	14	19	20	18	17
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-d	28	51	79	49	76	20	17	31	24	63	52	48	79
		Min-d	5	11	8	5	7	6	4	6	7	8	5	8	4
	Sado-seki	Mean	18	25	26	30	40	19	14	19	17	19	23	17	22
		%	99	100	100	100	100	84	100	99	100	100	100	99	98
		Max-d	44	63	79	118	114	57	40	37	29	40	41	33	118
		Min-d	7	9	12	7	10	10	4	7	6	8	13	10	4
	Happo	Mean	6	9	13	21	28	14	10	14	8	8	7	6	12
		%	84	78	85	100	100	100	100	100	100	100	99	100	96
		Max-d	11	35	46	162	123	38	27	27	17	22	23	14	162
		Min-d	2	3	3	4	3	3	2	2	3	2	1	2	1
	Ijira	Mean	14	20	20	43	33	23	22	22	24	19	17	11	22
		%	100	100	100	100	100	100	100	100	100	100	100	99	100
		Max-d	22	53	49	488	132	63	53	40	38	37	31	24	488
		Min-d	6	7	7	10	7	10	7	12	8	6	6	3	3
	Oki	Mean	26	24	36	51	49	18	21	18	20	21	32	29	29
		%	79	26	99	99	99	99	100	99	99	99	100	99	92
		Max-d	55	34	86	357	194	42	47	37	32	42	59	69	357
		Min-d	8	15	12	14	11	5	7	8	9	10	14	10	5
	Banryu	Mean	26	34	33	55	55	24	30	17	22	23	27	26	31
		%	100	100	100	100	100	100	98	99	100	98	38	81	93
		Max-d	62	67	85	314	219	64	71	44	50	46	46	56	314
		Min-d	11	12	14	12	13	9	9	8	8	12	16	13	8
	Yusuhara	Mean	18	22	22	31	38	15	17	13	12	18	21	16	19
		%	100	100	100	88	88	87	88	84	88	85	85	85	90
		Max-d	44	50	51	216	168	50	58	23	22	44	54	44	216
		Min-d	5	7	9	6	4	3	N.D.	6	2	3	5	6	N.D.
	Hedo	Mean	38	32	29	39	47	17	27	19	18	29	32	31	29
		%	100	98	100	99	100	99	95	100	99	100	100	98	99
		Max-d	93	68	55	117	109	38	59	38	36	49	67	97	117
		Min-d	15	16	17	11	21	10	11	11	8	12	14	16	8
	Ogasawara	Mean	12	18	18	17	19	8	13	8	11	11	11	14	13
		%	100	99	100	100	99	100	100	100	98	99	99	100	99
		Max-d	24	42	44	44	104	41	49	16	21	21	28	23	104
		Min-d	2	9	6	3	4	N.D.	5	3	4	4	3	5	N.D.
Republic of Korea	Kanghwa	Mean	55	74	55	69	91	32	38	26	42	56	44	37	52
		%	97	99	97	93	98	90	99	93	94	99	99	99	96
		Max-d	94	98	83	84	125	41	76	36	85	113	53	53	125
		Min-d	39	52	25	34	61	21	6	20	15	27	33	28	6
	Cheju (Kosan)	Mean	52	41	75	55	85	63	63	34	46	35	45	49	54
		%	100	97	80	99	96	97	99	95	98	95	97	100	96
		Max-d	75	73	116	81	125	116	114	52	128	43	56	68	128
		Min-d	32	25	30	29	41	34	26	22	18	30	31	28	18
	Imsil	Mean	39	29	35	81	59	35	42	29	40	43	41	40	43
		%	97	99	97	93	98	90	99	93	94	99	99	99	96
		Max-d	79	36	64	146	85	68	60	38	116	62	50	56	146
		Min-d	19	20	26	37	36	18	21	18	18	32	31	26	18

Table 4.11 PM₁₀

Unit : µg/m ³			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Thailand	Bangkok	Mean	80	60	38	39	34	23	30	31	28	48	65	68	45
		%	38	94	78	77	36	73	89	99	96	97	98	98	81
		Max-d	125	167	50	56	54	39	67	57	73	117	112	117	167
		Min-d	20	25	25	25	14	11	8	21	14	21	28	31	8
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	-	44	27	-	-	16	24	-	35	-	31
		%	0	0	0	30	10	0	0	33	1	0	43	0	10
		Max-d	-	-	-	57	30	-	-	19	24	-	64	-	64
		Min-d	-	-	-	37	23	-	-	14	24	-	16	-	14
	Chiangmai (Mae Hia)	Mean	65	91	158	63	26	22	23	21	29	35	36	44	52
		%	100	100	94	100	97	100	77	97	100	100	83	100	96
		Max-d	133	136	317	143	52	34	36	32	53	67	74	65	317
		Min-d	43	45	59	19	10	14	13	14	16	13	15	25	10

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 : $\mu\text{g}/\text{m}^3$			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Japan	Rishiri	Mean	4	-	8	8	9	12	-	7	7	8	9	8	8
		%	94	0	100	100	100	20	0	11	97	51	51	100	61
		Max-d	10	-	15	24	28	16	-	8	20	14	20	14	28
		Min-d	N.D.	-	4	4	4	9	-	5	3	4	5	2	N.D.
	Oki	Mean	14	18	16	19	22	11	13	12	10	10	16	14	15
		%	100	94	85	82	99	99	97	96	96	98	88	85	93
		Max-d	28	48	58	38	52	28	37	27	22	22	37	25	58
		Min-d	5	6	5	8	6	4	3	5	5	5	5	7	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			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
China	Hongwen	Mean					19.49	9.34	5.82	12.67	5.57	4.67	12.37	16.88	10.58
		%					100	100	100	100	100	100	100	100	100
		Max-2w					28.45	13.05	18.07	37.33	11.70	17.41	28.50	45.59	45.59
		Min-2w					14.60	5.57	N.D.	0.10	0.04	0.13	1.97	5.10	N.D.
Indonesia	Serpong	Mean	0.79	0.10	0.34	0.32	0.15	0.71	0.92	1.07	0.68	0.57	0.29	0.13	0.50
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.08	0.11	0.58	0.33	0.21	1.38	1.33	1.19	1.17	0.67	0.49	0.17	1.38
		Min-2w	0.49	0.10	0.09	0.31	0.09	0.04	0.51	0.94	0.19	0.48	0.10	0.09	0.04
Japan	Rishiri	Mean	1.61	3.13	2.38	2.02	2.78	3.48	2.46	2.83	1.57	2.31	2.15	2.51	2.44
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.70	3.73	2.56	2.05	3.11	4.70	2.84	2.94	2.20	3.03	2.73	2.54	4.70
		Min-2w	1.51	2.53	2.20	1.99	2.46	2.26	2.07	2.73	0.94	1.84	1.57	2.48	0.94
	Tappi	Mean	2.97	6.59	5.53	3.26	4.90	5.10	2.51	5.03	1.76	2.35	4.14	4.42	4.02
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	2.99	7.85	5.78	3.40	6.32	5.33	2.79	5.48	2.52	3.14	6.16	4.91	7.85
		Min-2w	2.96	5.34	5.27	3.11	4.11	4.88	2.23	4.58	1.01	1.47	2.13	3.93	1.01
	Sado-seki	Mean	-	4.30	2.14	3.54	5.61	4.24	3.77	4.03	3.21	2.08	2.97	3.20	3.64
		%	0	100	100	100	100	100	100	100	100	100	100	100	92
		Max-2w	-	6.01	3.43	4.28	8.04	6.39	4.62	4.23	3.52	3.16	3.00	3.51	8.04
		Min-2w	-	2.59	0.84	2.80	3.79	2.09	2.92	3.82	2.89	1.34	2.94	2.89	0.84
	Happo	Mean	1.68	1.88	1.57	2.57	3.20	4.69	3.60	4.28	1.36	1.89	2.44	1.73	2.58
		%	100	100	100	100	100	100	100	100	100	100	100	67	96
		Max-2w	2.64	2.11	1.57	3.34	4.29	5.57	4.02	4.91	1.75	2.07	3.21	1.88	5.57
		Min-2w	0.79	1.66	1.57	1.83	2.11	3.82	3.19	3.65	0.97	1.72	1.68	1.57	0.79
	Ijira	Mean	3.29	5.19	3.19	6.30	6.19	6.68	6.01	6.04	4.22	3.20	4.11	2.71	4.76
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	4.08	5.91	3.55	6.87	7.27	8.29	7.54	6.79	4.27	3.72	4.60	2.98	8.29
		Min-2w	2.49	4.47	2.83	5.74	5.59	5.07	4.49	5.28	4.17	2.72	3.62	2.44	2.44
	Oki	Mean	4.96	6.91	6.45	5.98	9.44	2.03	3.89	5.21	3.05	2.13	6.53	5.35	5.21
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	5.52	7.89	10.54	6.85	14.83	3.92	7.65	6.38	3.15	3.12	7.58	5.97	14.83
		Min-2w	4.41	5.92	2.36	5.11	5.00	0.14	0.12	4.04	2.95	0.18	5.47	4.73	0.12
	Banryu	Mean	6.02	7.15	6.74	7.00	9.78	6.20	11.83	3.20	3.15	4.04	5.62	5.27	6.41
		%	100	100	100	100	100	100	100	100	100	100	52	100	96
		Max-2w	6.68	9.93	9.18	7.83	12.37	8.57	14.49	3.82	4.50	6.25	5.62	6.24	14.49
		Min-2w	5.36	4.38	4.30	6.17	7.93	3.83	9.16	2.58	1.80	2.82	5.62	4.30	1.80
	Yusuhabara	Mean	6.78	7.01	6.55	5.23	8.61	7.48	8.80	4.49	3.80	4.79	6.78	6.69	6.44
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	8.17	10.10	9.20	8.22	9.98	11.28	14.70	4.93	5.01	6.41	7.07	8.18	14.70
		Min-2w	5.38	3.91	3.90	2.25	7.42	3.67	2.91	4.06	2.58	3.59	6.49	5.20	2.25
	Hedo	Mean	8.24	8.19	5.80	8.24	8.93	1.82	3.96	3.70	2.44	5.63	7.41	6.26	5.95
		%	100	97	100	100	100	100	100	100	100	100	100	60	93
		Max-2w	8.51	8.48	6.40	10.37	10.67	2.29	5.95	5.71	2.50	6.68	8.83	6.26	10.67
		Min-2w	7.96	7.90	5.20	6.64	7.20	1.35	1.96	1.69	2.39	3.65	5.99	6.26	1.35
	Ogasawara	Mean	3.76	6.39	4.95	4.84	4.34	2.98	5.69	1.46	1.14	1.63	3.08	4.27	3.91
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	4.67	11.96	7.05	5.61	6.37	4.88	9.11	1.68	1.37	1.76	3.33	4.70	11.96
		Min-2w	2.92	3.13	3.29	4.07	2.30	1.08	2.28	1.24	0.92	1.49	2.83	3.85	0.92
	Tokyo	Mean				6.47	6.77	7.40	7.02	6.99	4.58	3.47	3.61	2.83	5.36
		%				100	100	100	100	100	100	100	100	100	100
		Max-2w				7.25	8.55	10.25	9.02	7.38	5.48	4.27	3.80	3.23	10.25
		Min-2w				5.69	5.00	4.55	5.02	6.60	3.69	2.81	3.42	2.44	2.44
Malaysia	Tanah Rata	Mean	0.98	2.17	1.46	1.53	1.89	0.86	0.95	1.71	1.51	1.12	1.50	0.73	1.37
		%	100	100	80	100	100	100	100	100	100	100	100	100	98
		Max-w	2.46	4.49	2.10	2.20	2.36	1.85	1.28	3.27	2.44	3.01	2.88	1.91	4.49
		Min-w	0.03	0.92	0.15	0.81	1.20	0.05	0.71	0.74	0.72	0.14	0.44	0.10	0.03
	Petaling Jaya	Mean	-	-	-	-	3.83	2.85	2.35	3.54	2.94	2.03	4.48	1.53	3.00
		%	0	0	0	0	100	100	100	100	100	100	100	100	67
		Max-w	-	-	-	-	5.18	6.75	3.48	5.90	4.47	3.27	7.95	2.11	7.95
		Min-w	-	-	-	-	1.85	0.52	0.44	0.48	0.53	0.89	0.27	0.06	0.06
	Danum Valley	Mean	0.13	0.39	1.17	1.07	0.27	0.61	0.58	0.51	1.45	1.13	1.42	0.60	0.76
		%	100	100	50	100	100	100	100	100	100	100	100	100	96
		Max-2w	0.26	0.75	1.17	2.04	0.69	0.76	0.67	1.00	1.99	2.56	2.39	0.68	2.56
		Min-2w	N.D.	0.04	1.17	0.10	0.04	0.46	0.49	0.02	0.90	0.07	0.45	0.52	N.D.
Mongolia	Ulaanbaatar	Mean	9.58	8.47	6.29	2.56	1.75	2.51	2.29	1.92	0.98	-	-	-	4.20
		%	78	100	100	75	100	80	100	100	100	0	0	0	65
		Max-w	10.89	11.86	8.81	3.20	2.92	5.29	4.89	2.99	0.98	-	-	-	11.86
		Min-w	8.49	3.61	4.08	1.60	1.10	1.33	1.34	1.18	0.98	-	-	-	0.98
	Terelj	Mean	1.52	1.07	2.09	1.38	0.92	0.62	2.00	1.60	0.94	1.72	1.05	2.04	1.41
		%	100	100	100	50	100	100	100	100	100	100	100	100	96
		Max-2w	1.60	1.09	2.40	1.38	1.40	0.71	3.24	2.25	1.19	1.72	1.28	2.66	3.24
		Min-2w	1.44	1.04	1.77	1.38	0.54	0.52	0.76	0.95	0.68	1.72	0.82	1.67	0.52

Table 4.13 Particulate matter component: SO₄²⁻

Unit : µg/m ³			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Philippines	Metro Manila	Mean	2.85	3.80	4.16	3.88	3.94	3.68	2.88	2.24	2.30	2.65	2.36	-	3.15
		%	100	100	100	100	100	100	100	100	100	100	100	0	92
		Max-w	5.44	5.16	5.73	5.91	4.46	6.19	3.24	3.35	3.63	3.58	3.02	-	6.19
		Min-w	0.88	2.89	2.44	2.09	2.84	1.09	2.04	0.56	1.02	0.38	1.73	-	0.38
	Los Banos	Mean	2.10	1.99	3.23	3.73	4.90	1.55	1.20	1.54	1.49	0.84	2.50	1.90	2.29
		%	100	100	100	100	100	100	100	100	100	100	100	50	96
		Max-w	3.61	5.35	5.23	9.36	13.03	3.66	2.59	2.09	3.22	1.48	4.38	3.81	13.03
		Min-w	N.D.	N.D.	1.98	N.D.	0.80	0.43	0.20	0.86	N.D.	0.23	1.29	N.D.	N.D.
	Mt. Sto. Tomas	Mean	0.21	0.25	0.29	0.54	0.38	0.18	0.18	0.15	0.21	0.04	0.05	-	0.22
		%	100	100	100	100	100	100	100	100	100	100	100	0	92
		Max-w	0.44	0.55	0.58	0.98	0.74	0.39	0.32	0.25	0.55	0.05	0.14	-	0.98
		Min-w	N.D.	N.D.	0.11	0.22	N.D.	0.09	0.03	0.11	N.D.	N.D.	N.D.	-	N.D.
Republic of Korea	Kanghwa	Mean	2.45	1.96	0.96	2.75	7.90	5.54	6.89	0.84	2.88	2.08	0.66	0.38	2.35
		%	13	18	13	17	10	3	6	13	13	16	17	16	13
		Max-d	4.39	3.78	2.41	8.19	12.82	5.54	11.12	2.44	7.53	4.02	1.00	0.56	12.82
		Min-d	0.91	0.71	0.34	0.93	1.19	5.54	2.67	0.19	0.66	0.84	0.23	0.28	0.19
	Cheju (Kosan)	Mean	9.15	4.70	7.27	15.21	11.57	8.55	8.79	2.68	1.17	11.17	0.46	0.46	6.75
		%	16	14	16	17	13	17	19	16	17	16	17	16	16
		Max-d	19.03	7.03	14.48	39.15	21.08	17.91	19.07	5.23	2.43	40.04	0.83	0.67	40.04
		Min-d	2.37	2.88	3.35	3.07	7.97	2.17	1.63	N.D.	0.42	2.18	0.25	0.32	N.D.
	Imsil	Mean	8.12	8.75	15.00	14.02	9.80	7.61	1.58	3.49	4.69	3.92	0.47	0.30	5.90
		%	10	18	10	13	16	17	19	16	17	16	17	16	15
		Max-d	17.10	12.55	23.29	24.87	18.76	16.38	3.08	4.57	10.87	8.96	0.67	0.58	24.87
		Min-d	2.94	5.79	6.92	7.52	3.00	1.51	0.22	2.74	1.74	1.63	0.31	0.12	0.12
Russia	Mondy	Mean	0.14	0.38	0.36	0.24	0.18	0.12	0.09	0.08	0.06	0.14	0.37	0.32	0.22
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.17	0.39	0.37	0.27	0.29	0.12	0.09	0.08	0.06	0.18	0.37	0.32	0.39
		Min-2w	0.11	0.38	0.34	0.20	0.08	0.12	0.09	0.08	0.06	0.10	0.37	0.32	0.06
	Listvianka	Mean	1.11	1.19	2.46	1.65	1.74	1.51	1.22	0.83	1.40	1.04	2.28	2.48	1.57
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	1.52	2.35	3.83	2.38	2.68	2.78	1.57	1.02	2.43	1.21	2.65	4.83	4.83
		Min-w	0.79	0.54	1.56	1.21	0.81	0.82	0.90	0.64	0.98	0.81	1.93	1.26	0.54
	Irkutsk	Mean	3.06	2.80	2.48	3.18	2.89	3.60	3.66	2.76	2.24	3.65	3.32	0.18	2.91
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	5.08	5.48	4.18	6.66	4.63	7.26	4.72	3.15	5.07	4.86	5.75	0.23	7.26
		Min-w	0.92	0.80	0.31	0.99	1.83	1.51	2.50	2.50	0.07	2.82	0.37	0.12	0.07
	Primorskaya	Mean	6.44	6.06	4.77	4.03	4.55	4.97	3.42	3.84	2.11	3.04	9.00	6.48	4.89
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	6.73	7.12	5.29	4.18	4.98	5.66	3.57	4.52	2.43	4.83	10.44	7.98	10.44
		Min-2w	6.15	5.00	4.24	3.88	4.11	4.28	3.27	3.15	1.79	1.25	7.57	4.98	1.25
Thailand	Bangkok	Mean	2.49	2.07	1.61	1.62	2.03	1.19	1.61	1.44	2.56	6.05	5.14	6.98	2.97
		%	100	100	100	100	100	100	100	71	100	100	100	100	97
		Max-10d	7.22	2.85	3.61	3.92	3.29	2.28	1.84	2.81	4.17	16.13	8.51	8.33	16.13
		Min-10d	0.12	1.30	0.37	0.46	0.25	0.58	1.18	0.08	0.46	0.14	1.26	4.48	0.08
	Patumthani	Mean	14.91	7.90	3.82	4.12	1.44	1.52	3.07	0.31	0.46	5.15	10.85	4.84	4.69
		%	69	100	100	100	100	100	100	155	100	100	100	100	97
		Max-10d	21.15	16.36	6.38	7.80	3.58	3.36	5.53	0.53	0.88	12.34	20.23	9.62	21.15
		Min-10d	8.66	0.57	0.09	0.71	0.07	0.09	1.83	0.08	0.03	0.42	3.30	0.06	0.03
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	-	0.02	-	-	-	0.02	-	-	9.67	-	3.24
		%	0	0	0	25	0	0	0	42	0	0	52	0	12
		Max-2w	-	-	-	0.02	-	-	-	0.02	-	-	9.67	-	9.67
		Min-2w	-	-	-	0.02	-	-	-	0.02	-	-	9.67	-	0.02
	Chiangmai (Mae Hia)	Mean	4.12	3.86	4.15	1.16	2.04	0.58	0.77	0.43	0.29	6.50	3.08	4.26	2.60
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	6.21	7.63	5.50	1.75	2.19	0.89	1.19	0.92	0.66	13.29	5.42	7.35	13.29
		Min-10d	2.07	1.89	3.45	0.64	1.91	0.35	0.07	0.04	0.06	0.11	1.47	2.61	0.04
	Nakhon Ratchasima	Mean	7.96	7.05	6.09	3.92	2.15	2.61	2.34	1.95	4.00	5.35	10.19	3.34	4.80
		%	100	100	100	100	100	100	100	100	100	67	100	68	94
		Max-10d	16.57	7.75	7.49	4.97	4.61	3.84	3.25	2.56	7.75	8.42	14.51	4.27	16.57
		Min-10d	3.15	6.36	4.00	2.67	0.48	1.28	1.54	1.22	1.84	2.28	6.02	2.42	0.48
Viet Nam	Ha Noi	Mean	4.78	5.65	32.70	60.09	24.41	3.90	7.70	24.09	15.16	19.00	21.95	24.45	20.35
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	5.73	7.29	53.97	93.17	46.71	7.33	14.62	49.11	30.85	28.50	32.61	36.88	93.17
		Min-w	2.91	5.00	5.98	42.43	8.60	0.38	0.89	13.68	1.55	6.81	13.88	14.07	0.38
	Hoa Binh	Mean	12.30	19.67	8.60	4.23	5.31	2.43	0.40	1.87	2.75	7.85	14.19	21.72	8.38
		%	100	100	100	100	100	100	100	100	100	75	100	100	98
		Max-w	19.56	28.14	14.47	7.17	13.47	5.71	1.12	8.08	3.92	11.59	19.24	25.71	28.14
		Min-w	7.08	10.56	4.50	1.10	0.38	0.23	0.06	0.16	1.75	1.10	9.13	15.48	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

% : monthly or annual percentages of period of available data

Table 4.14 Particulate matter component: NO₃⁻

Unit : µg/m ³			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
China	Hongwen	Mean					8.23	5.14	3.63	4.96	3.95	2.55	7.98	10.76	5.81
		%					100	100	100	100	100	100	100	100	100
		Max-2w					13.12	8.04	7.39	12.65	6.51	8.91	20.29	29.84	29.84
		Min-2w					3.98	3.84	N.D.	N.D.	2.63	N.D.	0.95	2.43	N.D.
Indonesia	Serpong	Mean	0.05	0.03	0.19	0.59	0.21	0.30	0.06	0.32	0.01	0.13	0.05	0.04	0.17
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.10	0.07	0.22	1.05	0.32	0.34	0.12	0.38	0.02	0.25	0.10	0.04	1.05
		Min-2w	N.D.	N.D.	0.16	0.13	0.09	0.27	N.D.	0.26	N.D.	N.D.	N.D.	0.04	N.D.
Japan	Rishiri	Mean	0.30	0.66	0.42	0.52	0.80	0.49	0.55	0.89	0.44	0.75	0.68	0.57	0.60
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.36	0.85	0.46	0.58	0.99	0.64	0.82	1.02	0.61	1.13	0.79	0.61	1.13
		Min-2w	0.24	0.48	0.37	0.47	0.70	0.34	0.29	0.77	0.27	0.45	0.57	0.53	0.24
	Tappi	Mean	0.82	1.66	0.94	1.28	1.76	0.84	0.69	1.23	0.97	0.86	1.24	1.69	1.18
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.86	1.94	1.15	1.34	1.88	1.12	0.90	1.28	1.51	1.10	1.80	1.89	1.94
		Min-2w	0.77	1.38	0.73	1.22	1.56	0.56	0.48	1.18	0.43	0.60	0.68	1.50	0.43
	Sado-seki	Mean	-	1.04	0.32	1.23	1.59	0.49	0.63	1.09	0.96	0.86	0.98	0.87	0.96
		%	0	100	100	100	100	100	100	100	100	100	100	100	92
		Max-2w	-	1.29	0.52	1.56	2.19	0.60	0.97	1.10	1.20	1.40	1.10	0.92	2.19
		Min-2w	-	0.78	0.12	0.89	0.86	0.38	0.30	1.08	0.72	0.32	0.85	0.81	0.12
	Happo	Mean	0.06	0.12	0.09	0.57	0.85	0.04	0.08	0.10	0.08	0.13	0.11	0.03	0.20
		%	100	100	100	100	100	100	100	100	100	100	100	67	96
		Max-2w	0.11	0.24	0.09	0.96	1.30	0.07	0.10	0.15	0.11	0.20	0.22	0.03	1.30
		Min-2w	0.03	N.D.	0.09	0.14	0.40	N.D.	0.05	0.06	0.04	0.07	N.D.	0.03	N.D.
	Ijira	Mean	0.38	0.55	0.63	1.25	0.81	0.23	0.10	0.13	0.32	0.49	0.57	0.29	0.49
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.47	0.57	1.07	1.70	0.96	0.30	0.12	0.17	0.49	0.58	0.64	0.37	1.70
		Min-2w	0.30	0.53	0.18	0.81	0.65	0.16	0.08	0.10	0.16	0.44	0.50	0.21	0.08
	Oki	Mean	1.32	1.97	1.71	1.90	2.11	0.19	0.11	0.97	0.90	0.82	1.98	1.98	1.34
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.43	2.66	2.56	2.18	2.52	0.34	0.17	1.18	1.04	1.35	2.11	2.26	2.66
		Min-2w	1.20	1.27	0.85	1.61	1.38	0.04	0.04	0.77	0.76	0.07	1.84	1.71	0.04
	Banryu	Mean	2.33	2.65	1.99	2.16	2.31	0.77	0.09	0.42	0.65	1.26	2.08	2.14	1.57
		%	100	100	100	100	100	100	100	100	100	100	52	100	96
		Max-2w	3.08	3.70	1.99	3.22	2.54	0.96	0.14	0.49	0.80	1.52	2.08	2.29	3.70
		Min-2w	1.59	1.60	1.98	1.11	1.86	0.58	0.03	0.35	0.50	0.89	2.08	1.99	0.03
	Yusuhabara	Mean	0.94	0.74	0.76	1.08	0.83	0.05	0.04	0.03	0.06	0.39	0.81	0.73	0.55
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.45	0.78	1.38	2.06	1.20	0.06	0.05	0.04	0.10	0.55	1.20	0.96	2.06
		Min-2w	0.43	0.70	0.13	0.10	0.55	0.04	0.04	0.03	0.02	0.09	0.42	0.50	0.02
	Hedo	Mean	2.06	2.01	1.29	1.98	2.37	0.68	0.58	0.52	0.72	1.82	1.92	1.33	1.48
		%	100	97	100	100	100	100	100	100	100	100	100	60	93
		Max-2w	2.53	2.06	1.53	2.23	3.15	0.77	0.63	0.54	1.06	2.76	1.98	1.33	3.15
		Min-2w	1.60	1.95	1.06	1.57	1.60	0.60	0.52	0.50	0.39	0.77	1.86	1.33	0.39
	Ogasawara	Mean	0.86	1.07	1.12	1.10	0.94	0.42	0.17	0.26	0.21	0.41	0.71	0.84	0.74
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.13	1.46	1.41	1.46	1.20	0.57	0.31	0.34	0.26	0.43	0.78	0.99	1.46
		Min-2w	0.54	0.67	0.96	0.75	0.57	0.26	0.03	0.18	0.16	0.37	0.64	0.69	0.03
	Tokyo	Mean					3.15	4.51	3.03	2.88	3.31	2.97	4.26	5.13	5.34
		%					100	100	100	100	100	100	100	100	100
		Max-2w					3.19	4.99	3.18	3.07	3.43	3.46	4.99	5.51	5.64
		Min-2w					3.10	4.02	2.87	2.69	3.20	2.49	3.52	4.75	5.04
Malaysia	Tanah Rata	Mean	0.10	0.22	0.12	0.08	0.10	0.30	0.06	0.19	0.11	0.05	0.07	0.08	0.13
		%	100	100	80	100	100	100	100	100	100	100	100	100	98
		Max-w	0.30	0.58	0.25	0.27	0.18	1.01	0.15	0.55	0.19	0.15	0.14	0.14	1.01
		Min-w	N.D.	0.03	N.D.	N.D.	0.03	N.D.	0.02	0.02	0.01	N.D.	0.01	0.01	N.D.
	Petaling Jaya	Mean	-	-	-	-	1.39	1.01	0.92	1.17	1.24	0.77	1.78	1.06	1.18
		%	0	0	0	0	100	100	100	100	100	100	100	100	67
		Max-w	-	-	-	-	2.25	2.26	1.64	1.65	1.85	1.08	2.65	1.69	2.65
		Min-w	-	-	-	-	0.64	0.14	0.16	0.28	0.41	0.42	0.18	0.08	0.08
	Danum Valley	Mean	0.04	0.06	0.07	0.02	0.02	0.07	0.03	N.D.	N.D.	N.D.	0.05	0.08	0.04
		%	100	100	50	100	100	100	100	100	100	100	100	100	96
		Max-2w	0.08	0.13	0.07	0.02	0.03	0.12	0.05	N.D.	N.D.	0.02	0.09	0.13	0.13
		Min-2w	N.D.	N.D.	0.07	0.02	N.D.	0.02	0.01	N.D.	N.D.	N.D.	N.D.	0.04	N.D.
Mongolia	Ulaanbaatar	Mean	2.71	3.46	2.54	0.90	0.82	1.13	0.88	1.15	0.40	-	-	-	1.66
		%	78	100	100	75	100	80	100	100	100	0	0	0	65
		Max-w	3.45	4.28	5.04	1.25	1.23	1.51	1.16	1.69	0.40	-	-	-	5.04
		Min-w	2.25	2.69	1.17	0.50	0.60	0.77	0.70	0.76	0.40	-	-	-	0.40
	Terelj	Mean	0.16	0.34	0.42	0.21	0.36	0.18	0.29	0.24	0.77	1.14	2.05	1.94	0.71
		%	100	100	100	50	100	100	100	100	100	100	100	100	96
		Max-2w	0.22	0.37	0.60	0.21	0.54	0.22	0.33	0.31	0.83	1.14	2.07	2.79	2.79
		Min-2w	0.10	0.31	0.23	0.21	0.19	0.14	0.25	0.17	0.70	1.14	2.03	0.45	0.10

Table 4.14 Particulate matter component: NO₃⁻

Unit : µg/m³			2007													Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Philippines	Metro Manila	Mean	0.89	2.04	2.69	1.62	1.89	0.86	0.61	0.65	0.70	1.04	1.05	-	1.27	
		%	100	100	100	100	100	100	100	100	100	100	100	0	92	
		Max-w	1.81	2.39	4.44	2.25	2.73	1.37	1.17	1.01	0.99	1.84	1.52	-	4.44	
		Min-w	0.20	1.70	0.77	0.71	1.50	0.16	0.20	N.D.	0.36	N.D.	0.64	-	N.D.	
	Los Banos	Mean	0.32	0.29	0.69	0.74	0.51	0.15	0.21	0.27	0.22	0.32	0.57	0.14	0.39	
		%	100	100	100	100	100	100	100	100	100	100	100	50	96	
		Max-w	0.64	0.70	1.38	2.94	1.30	0.37	0.81	0.62	0.60	0.82	1.40	0.28	2.94	
		Min-w	N.D.	N.D.	0.15	N.D.	N.D.	N.D.	N.D.	0.09	N.D.	0.04	N.D.	N.D.	N.D.	
	Mt. Sto. Tomas	Mean	0.09	0.09	0.09	0.14	0.11	0.03	0.03	0.06	0.13	N.D.	0.02	-	0.07	
		%	100	100	100	100	100	100	100	100	100	100	100	0	92	
		Max-w	0.27	0.16	0.24	0.40	0.27	0.06	0.06	0.12	0.18	0.02	0.06	-	0.40	
		Min-w	N.D.	0.02	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	0.10	N.D.	N.D.	-	N.D.	
Republic of Korea	Kanghwa	Mean	1.89	1.13	0.87	2.47	0.32	4.28	0.38	0.49	0.19	0.13	0.90	1.10	1.03	
		%	13	18	13	17	10	3	6	13	13	16	17	16	13	
		Max-d	2.83	3.19	1.63	4.81	0.52	4.28	0.40	1.01	0.31	0.17	2.03	2.66	4.81	
		Min-d	0.58	0.24	N.D.	0.03	0.04	4.28	0.36	0.09	0.08	0.07	0.09	0.05	N.D.	
	Cheju (Kosan)	Mean	0.36	0.36	0.31	0.79	0.17	0.19	0.52	0.14	0.25	0.31	1.20	2.18	0.57	
		%	16	14	16	17	13	17	19	16	17	16	17	16	16	
		Max-d	0.81	1.07	0.78	2.70	0.34	0.26	2.10	0.20	0.32	0.51	2.81	3.34	3.34	
		Min-d	0.03	N.D.	0.09	0.12	0.06	0.14	0.14	0.10	0.17	0.12	0.27	0.81	N.D.	
	Imsil	Mean	2.59	7.91	9.99	8.89	1.25	2.70	1.22	0.49	1.01	1.79	1.37	1.52	3.05	
		%	10	18	10	13	16	17	19	16	17	16	17	16	15	
		Max-d	5.43	17.53	19.22	15.83	4.17	5.28	3.44	0.84	3.86	3.62	1.87	3.52	19.22	
		Min-d	0.50	1.22	1.66	0.14	0.23	0.76	0.45	0.37	0.15	0.48	0.63	0.27	0.14	
Russia	Mondy	Mean	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	N.D.	0.01	0.01	0.02	0.02	N.D.	0.01	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	N.D.	0.01	0.01	0.03	0.02	N.D.	0.03	
		Min-2w	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	N.D.	0.01	0.01	0.02	0.02	N.D.	N.D.	
	Listvianka	Mean	0.10	0.10	0.29	0.28	0.35	0.10	0.05	0.08	0.10	0.13	0.29	0.33	0.19	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.14	0.18	0.72	0.48	0.83	0.23	0.09	0.13	0.28	0.21	0.48	0.42	0.83	
		Min-w	0.08	0.06	0.03	0.12	0.05	0.02	N.D.	0.02	0.02	0.04	0.04	0.22	N.D.	
	Irkutsk	Mean	0.63	0.95	0.70	2.26	0.80	0.49	0.36	0.15	0.25	0.28	0.25	N.D.	0.61	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	1.64	2.72	0.95	4.60	1.73	1.25	0.53	0.21	0.51	0.45	0.57	N.D.	4.60	
		Min-w	0.20	0.09	0.37	0.91	0.18	0.21	0.12	0.10	N.D.	0.16	N.D.	N.D.	N.D.	
	Primorskaya	Mean	3.00	2.04	1.65	0.18	0.43	0.41	0.31	0.75	0.22	0.33	0.52	2.62	1.04	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	3.27	2.28	1.87	0.21	0.67	0.56	0.37	1.23	0.24	0.66	0.71	3.96	3.96	
		Min-2w	2.74	1.80	1.44	0.16	0.19	0.25	0.26	0.28	0.20	N.D.	0.32	1.29	N.D.	
Thailand	Bangkok	Mean	1.46	2.07	1.71	1.39	1.16	0.86	1.32	1.09	1.41	1.04	1.36	3.27	1.51	
		%	100	100	100	100	100	100	100	71	100	100	100	100	97	
		Max-10d	4.14	2.85	3.63	2.64	1.75	1.29	1.55	1.79	2.48	2.45	2.21	3.60	4.14	
		Min-10d	0.11	1.30	0.41	0.49	0.21	0.55	1.10	0.39	0.74	0.14	0.07	3.08	0.07	
	Patumthani	Mean	11.19	2.93	1.86	2.52	0.60	0.76	1.81	0.33	0.21	1.13	1.82	1.28	2.02	
		%	69	100	100	100	100	100	100	155	100	100	100	100	97	
		Max-10d	21.07	4.58	3.02	4.88	1.55	2.03	2.06	0.50	0.39	2.13	2.35	2.43	21.07	
		Min-10d	1.32	0.46	0.02	0.90	0.02	0.11	1.45	0.11	0.03	0.19	1.55	0.13	0.02	
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	-	0.02	-	-	-	0.06	-	-	0.21	-	0.10	
		%	0	0	0	25	0	0	0	42	0	0	52	0	12	
		Max-2w	-	-	-	0.02	-	-	-	0.06	-	-	0.21	-	0.21	
		Min-2w	-	-	-	0.02	-	-	-	0.06	-	-	0.21	-	0.02	
	Chiangmai (Mae Hia)	Mean	0.77	0.90	2.37	0.48	0.48	0.33	0.47	0.36	0.12	0.14	0.45	0.59	0.62	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-10d	0.98	1.23	4.36	0.80	0.73	0.37	0.67	0.44	0.22	0.29	1.02	0.64	4.36	
		Min-10d	0.37	0.42	0.95	0.31	N.D.	0.30	0.17	0.30	0.07	N.D.	0.10	0.52	N.D.	
	Nakhon Ratchasima	Mean	0.33	0.15	0.53	0.49	0.59	0.51	0.70	0.76	0.16	0.41	0.71	0.27	0.48	
		%	100	100	100	100	100	100	100	100	100	67	100	68	94	
		Max-10d	0.41	0.19	0.82	0.69	1.10	0.56	1.02	1.37	0.21	0.42	0.86	0.31	1.37	
		Min-10d	0.30	0.11	0.34	0.37	0.32	0.44	0.15	0.26	0.13	0.40	0.62	0.24	0.11	
Viet Nam	Ha Noi	Mean	1.69	1.42	10.53	23.69	7.17	1.34	4.09	6.37	3.66	2.47	3.87	8.91	6.21	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	2.47	2.27	24.31	30.83	19.10	2.31	7.25	7.90	6.62	4.11	8.23	12.00	30.83	
		Min-w	1.37	0.89	2.97	16.38	1.89	0.14	0.35	2.85	0.20	0.41	1.57	5.02	0.14	
	Hoa Binh	Mean	2.45	4.08	2.60	0.78	0.65	0.36	0.12	0.09	0.27	0.56	1.54	4.10	1.46	
		%	100	100	100	100	100	100	100	100	100	75	100	100	98	
		Max-w	3.51	5.97	3.67	1.47	1.77	0.66	0.25	0.27	0.45	0.73	2.17	5.11	5.97	
		Min-w	1.23	2.30	1.27	0.29	0.13	0.04	0.02	0.02	0.15	0.22	1.05	3.23	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

% : monthly or annual percentages of period of available data

Table 4.15 Particulate matter component: Cl⁻

Unit : µg/m ³			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
China	Hongwen	Mean					1.68	1.17	1.34	2.28	1.85	2.40	2.42	3.42	2.07
		%					100	100	100	100	100	100	100	100	100
		Max-2w					1.94	1.65	3.24	3.54	3.38	9.31	5.42	7.50	9.31
		Min-2w					1.29	0.86	0.34	0.62	0.81	0.07	0.22	0.87	0.07
Indonesia	Serpong	Mean	0.63	0.24	0.48	0.59	0.41	2.54	0.24	0.20	0.07	0.05	0.07	N.D.	0.46
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.69	0.25	0.66	1.03	0.49	3.81	0.38	0.41	0.10	0.06	0.14	N.D.	3.81
		Min-2w	0.57	0.24	0.29	0.15	0.34	1.27	0.10	N.D.	0.03	0.03	N.D.	N.D.	N.D.
Japan	Rishiri	Mean	0.88	2.55	2.83	1.02	1.96	0.23	0.55	3.16	1.66	5.86	3.42	1.26	2.25
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.30	2.73	4.01	1.54	3.38	0.26	0.98	4.95	2.91	6.06	4.41	1.32	6.06
		Min-2w	0.46	2.37	1.65	0.50	0.54	0.19	0.12	1.37	0.42	5.46	2.42	1.19	0.12
	Tappi	Mean	6.45	18.71	16.73	1.45	3.36	0.39	0.78	1.32	2.22	7.35	12.00	8.45	6.51
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	10.50	23.99	22.44	1.50	6.70	0.48	0.86	1.45	2.37	14.75	18.66	11.30	23.99
		Min-2w	2.39	13.43	11.03	1.41	0.70	0.31	0.70	1.19	2.07	3.63	5.34	5.61	0.31
	Sado-seki	Mean	-	5.53	1.89	3.46	2.41	0.73	1.05	0.57	2.21	3.81	6.42	7.39	3.30
		%	0	100	100	100	100	100	100	100	100	100	100	100	92
		Max-2w	-	7.24	1.97	3.99	4.90	1.28	1.68	0.93	3.12	5.03	7.19	7.54	7.54
		Min-2w	-	3.83	1.81	2.94	1.09	0.19	0.43	0.21	1.30	3.19	5.65	7.24	0.19
	Happo	Mean	0.03	N.D.	N.D.	0.05	0.02	0.02	0.02	N.D.	0.01	0.02	0.02	0.02	0.02
		%	100	100	100	100	100	100	100	100	100	100	100	67	96
		Max-2w	0.04	0.02	N.D.	0.07	0.03	0.02	0.03	N.D.	0.02	0.02	0.03	0.04	0.07
		Min-2w	N.D.	N.D.	N.D.	0.02	N.D.	0.02	0.02	N.D.	N.D.	0.01	N.D.	N.D.	N.D.
	Ijira	Mean	0.08	0.04	0.07	0.14	0.04	0.02	N.D.	0.01	0.02	0.05	0.06	0.04	0.05
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.12	0.05	0.13	0.14	0.05	0.02	0.01	0.01	0.02	0.10	0.08	0.05	0.14
		Min-2w	0.05	0.03	0.02	0.13	0.03	N.D.	N.D.	N.D.	0.02	0.03	0.05	0.03	N.D.
	Oki	Mean	3.92	3.63	2.75	2.30	1.87	0.15	0.14	0.36	2.24	1.92	4.09	5.45	2.36
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	6.50	3.69	3.66	2.39	3.41	0.31	0.19	0.46	2.99	3.89	4.55	5.62	6.50
		Min-2w	1.34	3.57	1.83	2.21	0.91	N.D.	0.09	0.26	1.49	0.23	3.62	5.27	N.D.
	Banryu	Mean	1.35	1.29	1.74	1.28	0.75	1.06	N.D.	0.05	0.54	1.29	1.32	1.02	0.97
		%	100	100	100	100	100	100	100	100	100	100	100	52	96
		Max-2w	2.46	1.71	3.22	1.80	1.40	1.68	0.02	0.10	0.62	1.79	1.32	1.02	3.22
		Min-2w	0.24	0.87	0.26	0.76	0.24	0.43	N.D.	N.D.	0.46	0.58	1.32	1.02	N.D.
	Yusuhara	Mean	0.05	0.04	0.07	0.04	0.03	N.D.	N.D.	N.D.	N.D.	0.04	0.09	0.05	0.04
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.08	0.06	0.13	0.06	0.05	N.D.	0.01	0.01	N.D.	0.05	0.09	0.06	0.13
		Min-2w	0.03	0.03	N.D.	0.02	0.02	N.D.	N.D.	N.D.	N.D.	0.02	0.09	0.03	N.D.
	Hedo	Mean	6.90	5.11	8.98	3.95	1.62	3.19	4.28	3.87	6.44	7.96	8.72	10.77	5.79
		%	100	97	100	100	100	100	100	100	100	100	100	60	93
		Max-2w	8.02	5.42	11.89	6.78	1.87	3.60	4.61	3.96	10.62	10.49	11.00	10.77	11.89
		Min-2w	5.78	4.80	6.08	1.59	1.36	2.78	3.95	3.79	2.26	4.88	6.44	10.77	1.36
	Ogasawara	Mean	4.01	4.15	6.25	4.45	1.79	1.38	1.00	4.24	4.12	4.90	3.32	3.75	3.82
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	7.14	6.01	9.06	5.10	2.65	1.93	1.95	6.22	6.02	7.65	3.62	4.84	9.06
		Min-2w	2.21	1.24	4.71	3.80	1.29	0.83	0.06	2.26	2.22	3.06	3.01	2.66	0.06
	Tokyo	Mean				0.66	0.33	0.24	0.28	0.10	0.96	0.73	1.02	1.25	0.62
		%				100	100	100	100	100	100	100	100	100	100
		Max-2w				1.14	0.33	0.30	0.43	0.15	1.08	0.78	1.45	1.41	1.45
		Min-2w				0.18	0.32	0.18	0.14	0.05	0.84	0.63	0.58	1.09	0.05
Malaysia	Tanah Rata	Mean	0.06	0.05	0.02	0.02	0.03	0.06	N.D.	0.02	0.01	N.D.	0.03	0.04	0.03
		%	100	100	80	100	100	100	100	100	100	100	100	100	98
		Max-w	0.12	0.15	0.04	0.08	0.06	0.18	N.D.	0.05	0.02	0.02	0.14	0.11	0.18
		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.
	Petaling Jaya	Mean	-	-	-	-	0.21	0.08	0.09	0.10	0.11	0.09	0.28	0.10	0.13
		%	0	0	0	0	100	100	100	100	100	100	100	100	67
		Max-w	-	-	-	-	0.70	0.22	0.20	0.14	0.18	0.15	0.45	0.17	0.70
		Min-w	-	-	-	-	0.03	N.D.	0.01	0.04	0.04	0.03	0.12	0.03	N.D.
	Danum Valley	Mean	0.08	0.09	N.D.	N.D.	N.D.	N.D.	0.02	0.01	N.D.	N.D.	0.02	0.06	0.02
		%	100	100	50	100	100	100	100	100	100	100	100	100	96
		Max-2w	0.16	0.18	N.D.	0.01	N.D.	0.01	0.03	0.01	N.D.	N.D.	0.03	0.10	0.18
		Min-2w	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	N.D.
Mongolia	Ulaanbaatar	Mean	1.04	1.86	1.27	1.09	0.57	0.49	0.39	0.49	0.50	-	-	-	0.87
		%	78	100	100	75	100	80	100	100	100	0	0	0	65
		Max-w	1.32	2.47	1.70	1.23	1.01	0.59	0.45	0.73	0.50	-	-	-	2.47
		Min-w	0.65	1.02	0.75	0.85	0.25	0.31	0.33	0.34	0.50	-	-	-	0.25
	Terelj	Mean	0.19	0.21	0.27	0.24	0.17	0.14	0.19	0.22	0.21	0.97	0.92	0.73	0.36
		%	100	100	100	50	100	100	100	100	100	100	100	100	96
		Max-2w	0.22	0.22	0.27	0.24	0.20	0.15	0.21	0.25	0.25	0.97	1.07	0.84	1.07
		Min-2w	0.16	0.19	0.26	0.24	0.14	0.13	0.17	0.19	0.17	0.97	0.77	0.67	0.13

Table 4.15 Particulate matter component: Cl^-

Unit : $\mu\text{g}/\text{m}^3$			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Philippines	Metro Manila	Mean	1.43	1.03	0.97	0.66	0.23	0.15	0.29	0.45	0.09	0.35	1.11	-	0.62
		%	100	100	100	100	100	100	100	100	100	100	100	0	92
		Max-w	2.00	1.55	1.29	1.68	0.39	0.17	0.40	1.71	0.24	0.66	1.93	-	2.00
		Min-w	0.28	0.48	0.47	0.16	0.06	0.11	0.15	N.D.	N.D.	N.D.	0.55	-	N.D.
	Los Banos	Mean	2.42	1.80	1.90	2.38	1.31	0.27	0.13	0.06	0.04	0.41	1.71	0.95	1.15
		%	100	100	100	100	100	100	100	100	100	100	100	50	96
		Max-w	3.94	5.07	3.03	5.61	4.31	0.61	0.30	0.11	0.10	0.82	2.40	1.91	5.61
		Min-w	N.D.	N.D.	1.02	N.D.	N.D.	N.D.	0.02	N.D.	N.D.	0.04	1.43	N.D.	N.D.
	Mt. Sto. Tomas	Mean	0.09	0.04	0.01	0.05	N.D.	0.09	0.03	0.13	0.10	0.05	0.09	-	0.07
		%	100	100	100	100	100	100	100	100	100	100	100	0	92
		Max-w	0.19	0.08	0.05	0.07	0.02	0.28	0.04	0.23	0.25	0.14	0.17	-	0.28
		Min-w	N.D.	N.D.	N.D.	0.03	N.D.	N.D.	N.D.	N.D.	0.01	N.D.	N.D.	-	N.D.
Republic of Korea	Kanghwa	Mean	0.38	0.23	0.09	0.20	0.17	0.18	0.10	0.10	0.06	0.12	0.30	0.24	0.19
		%	13	18	13	17	10	3	6	13	13	16	17	16	13
		Max-d	0.58	0.45	0.15	0.47	0.35	0.18	0.14	0.25	0.12	0.24	0.44	0.31	0.58
		Min-d	0.11	0.11	0.04	0.04	0.03	0.18	0.05	0.02	0.01	0.02	0.11	0.17	0.01
	Cheju (Kosan)	Mean	0.13	0.10	0.04	0.16	0.10	0.60	0.55	0.32	0.48	0.42	0.30	0.25	0.30
		%	16	14	16	17	13	17	19	16	17	16	17	16	16
		Max-d	0.24	0.15	0.08	0.22	0.21	1.02	0.94	0.42	1.16	0.89	0.47	0.38	1.16
		Min-d	0.02	0.04	0.01	0.07	N.D.	0.37	0.29	0.08	N.D.	0.11	0.21	0.13	N.D.
	Imsil	Mean	0.48	0.62	0.95	0.31	0.25	0.78	0.57	0.20	0.12	0.07	0.20	0.15	0.38
		%	10	18	10	13	16	17	13	6	17	16	17	16	14
		Max-d	0.94	1.20	1.29	0.85	0.38	1.69	0.91	0.28	0.29	0.16	0.31	0.32	1.69
		Min-d	0.18	0.25	0.67	0.04	N.D.	0.23	0.27	0.13	0.03	0.03	0.13	N.D.	N.D.
Russia	Mondy	Mean	N.D.	0.02	0.02	0.01	0.01	0.02	N.D.	N.D.	N.D.	0.03	0.02	N.D.	0.01
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	N.D.	0.02	0.02	0.01	0.01	0.02	N.D.	N.D.	N.D.	0.05	0.02	N.D.	0.05
		Min-2w	N.D.	0.02	0.02	0.01	N.D.	0.02	N.D.	N.D.	N.D.	N.D.	0.02	N.D.	N.D.
	Listvianka	Mean	0.05	0.03	0.13	0.02	0.03	N.D.	0.07	0.16	0.03	0.55	N.D.	0.27	0.12
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.12	0.06	0.16	0.05	0.05	N.D.	0.15	0.30	0.09	0.98	0.02	0.87	0.98
		Min-w	N.D.	N.D.	0.10	N.D.	N.D.	N.D.	0.03	0.10	N.D.	0.07	N.D.	N.D.	N.D.
	Irkutsk	Mean	0.13	0.26	0.45	1.43	0.41	0.14	0.13	0.02	0.09	0.19	0.19	N.D.	0.30
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.35	0.40	0.63	2.78	1.04	0.35	0.23	0.05	0.13	0.38	0.49	0.01	2.78
		Min-w	0.04	N.D.	0.25	0.59	0.02	0.04	0.04	N.D.	0.02	0.08	N.D.	N.D.	N.D.
	Primorskaya	Mean	0.37	0.30	0.12	0.13	0.16	0.08	0.03	0.18	0.08	0.08	0.51	0.27	0.19
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.53	0.40	0.14	0.15	0.21	0.15	0.07	0.30	0.14	0.15	0.58	0.29	0.58
		Min-2w	0.22	0.19	0.11	0.10	0.11	N.D.	N.D.	0.05	0.01	0.02	0.43	0.25	N.D.
Thailand	Bangkok	Mean	0.80	0.94	0.36	0.12	0.03	0.15	0.54	0.27	0.12	0.08	0.10	0.19	0.29
		%	100	100	100	100	100	100	100	71	100	100	100	100	97
		Max-10d	1.16	1.23	0.52	0.20	0.05	0.34	0.70	0.48	0.28	0.17	0.15	0.21	1.23
		Min-10d	0.14	0.65	0.06	0.03	0.02	0.02	0.38	0.05	0.03	0.03	0.07	0.18	0.02
	Patumthani	Mean	1.05	1.19	0.53	1.00	0.04	0.17	0.30	0.06	0.03	0.10	0.14	0.15	0.39
		%	69	100	100	100	100	100	100	155	100	100	100	100	97
		Max-10d	1.06	1.85	1.48	2.89	0.08	0.27	0.41	0.13	0.03	0.24	0.21	0.17	2.89
		Min-10d	1.04	0.31	0.02	0.03	0.02	0.02	0.24	0.02	0.03	0.02	0.09	0.13	0.02
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	-	0.02	-	-	-	N.D.	-	-	0.02	-	0.02
		%	0	0	0	25	0	0	0	42	0	0	52	0	12
		Max-2w	-	-	-	0.02	-	-	-	N.D.	-	-	0.02	-	0.02
		Min-2w	-	-	-	0.02	-	-	-	N.D.	-	-	0.02	-	N.D.
	Chiangmai (Mae Hia)	Mean	0.06	0.04	0.09	0.04	0.15	0.42	0.15	0.03	0.07	0.03	0.28	0.03	0.11
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	0.14	0.07	0.12	0.07	0.20	1.08	0.20	0.05	0.15	0.04	0.77	0.07	1.08
		Min-10d	0.01	0.01	0.05	0.02	0.09	0.08	0.12	N.D.	N.D.	N.D.	0.03	N.D.	N.D.
	Nakhon Ratchasima	Mean	0.03	0.02	0.03	N.D.	0.08	0.08	0.14	0.14	0.02	0.07	0.08	0.03	0.06
		%	100	100	100	100	100	100	100	100	100	67	100	68	94
		Max-10d	0.04	0.02	0.03	0.02	0.09	0.20	0.25	0.22	0.05	0.12	0.11	0.03	0.25
		Min-10d	0.02	0.02	0.02	N.D.	0.05	0.02	N.D.	0.01	N.D.	0.03	0.06	0.03	N.D.
Viet Nam	Ha Noi	Mean	2.21	2.45	6.11	10.74	2.93	0.45	1.44	2.31	1.46	0.73	0.72	2.53	2.81
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	2.79	2.82	13.47	18.14	9.32	0.64	2.78	3.61	2.91	0.97	1.73	2.88	18.14
		Min-w	1.10	1.90	2.08	4.82	0.63	0.24	0.10	0.53	0.10	0.52	0.25	2.08	0.10
	Hoa Binh	Mean	0.58	0.77	0.72	0.44	0.36	0.21	0.11	0.10	2.17	0.23	0.40	1.00	0.58
		%	100	100	100	100	100	100	100	100	100	75	100	100	98
		Max-w	0.75	1.17	0.87	0.77	0.51	0.39	0.32	0.31	8.28	0.50	0.59	1.34	8.28
		Min-w	0.42	0.53	0.63	0.31	0.23	0.04	0.03	0.03	0.05	0.09	0.16	0.62	0.03

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

% : monthly or annual percentages of period of available data

Table 4.16 Particulate matter component: NH₄⁺

Unit : µg/m ³			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
China	Hongwen	Mean					4.61	3.05	1.58	3.28	3.97	1.74	3.17	8.76	3.66
		%					100	100	100	100	100	100	100	100	100
		Max-2w					5.01	4.39	4.80	7.31	10.65	5.27	6.14	12.83	12.83
		Min-2w					4.10	1.29	N.D.	0.11	N.D.	0.04	0.98	5.61	N.D.
Indonesia	Serpong	Mean	0.20	0.13	0.51	0.09	0.29	0.84	0.44	0.13	N.D.	0.07	N.D.	N.D.	0.24
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.32	0.18	1.25	0.11	0.48	1.32	0.74	0.22	N.D.	0.12	N.D.	N.D.	1.32
		Min-2w	0.08	0.08	0.09	0.07	0.11	0.36	0.13	0.04	N.D.	0.03	N.D.	N.D.	N.D.
Japan	Rishiri	Mean	0.27	0.59	0.36	0.41	0.46	0.55	0.39	0.33	0.17	0.31	0.43	0.40	0.39
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.27	0.77	0.37	0.48	0.51	0.69	0.47	0.42	0.18	0.47	0.53	0.42	0.77
		Min-2w	0.27	0.40	0.35	0.35	0.40	0.41	0.32	0.24	0.15	0.21	0.33	0.38	0.15
	Tappi	Mean	0.41	0.94	0.71	0.88	0.93	1.04	0.46	0.70	0.23	0.24	0.56	0.61	0.64
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.45	1.23	0.72	1.04	1.43	1.19	0.51	0.97	0.33	0.29	0.84	0.78	1.43
		Min-2w	0.38	0.66	0.71	0.73	0.62	0.89	0.41	0.43	0.13	0.21	0.29	0.43	0.13
	Sado-seki	Mean	-	0.64	0.30	0.64	0.94	0.89	0.63	0.50	0.33	0.24	0.38	0.36	0.54
		%	0	100	100	100	100	100	100	100	100	100	100	100	92
		Max-2w	-	0.88	0.51	0.79	1.72	1.39	0.97	0.54	0.41	0.40	0.41	0.44	1.72
		Min-2w	-	0.40	0.10	0.49	0.38	0.39	0.29	0.46	0.25	0.11	0.35	0.28	0.10
	Happo	Mean	0.30	0.46	0.46	0.67	0.65	1.35	0.98	1.33	0.39	0.46	0.56	0.28	0.65
		%	100	100	100	100	100	100	100	100	100	100	100	67	96
		Max-2w	0.49	0.54	0.46	0.99	0.87	1.52	1.03	1.57	0.50	0.50	0.76	0.28	1.57
		Min-2w	0.12	0.38	0.46	0.49	0.43	1.19	0.93	1.09	0.28	0.42	0.36	0.27	0.12
	Ijira	Mean	0.97	1.54	0.97	1.73	1.51	1.97	1.71	1.50	1.08	0.92	1.24	0.84	1.32
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.23	1.74	1.08	2.17	2.07	2.51	2.13	1.60	1.13	1.14	1.25	0.92	2.51
		Min-2w	0.72	1.34	0.87	1.28	1.05	1.43	1.30	1.41	1.03	0.76	1.22	0.76	0.72
	Oki	Mean	0.87	1.44	1.50	1.29	1.88	0.45	1.02	1.07	0.50	0.37	1.33	0.99	1.07
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.99	1.91	2.57	1.57	3.57	0.87	2.02	1.35	0.53	0.55	1.53	1.13	3.57
		Min-2w	0.76	0.97	0.43	1.01	0.83	0.04	0.03	0.79	0.48	0.04	1.14	0.86	0.03
	Banryu	Mean	1.88	2.11	1.80	1.52	2.30	1.52	3.22	0.70	0.47	0.84	1.36	1.38	1.60
		%	100	100	100	100	100	100	100	100	100	100	52	100	96
		Max-2w	2.14	3.29	2.61	1.74	3.45	2.20	4.25	0.81	0.67	1.40	1.36	1.60	4.25
		Min-2w	1.61	0.93	1.00	1.31	1.54	0.84	2.19	0.59	0.28	0.52	1.36	1.15	0.28
	Yusu-hara	Mean	1.71	1.69	1.69	1.11	1.80	1.94	2.35	0.97	0.77	1.10	1.80	1.49	1.53
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.94	2.42	2.29	1.64	2.63	3.07	3.98	1.02	1.10	1.39	1.90	1.71	3.98
		Min-2w	1.48	0.96	1.10	0.58	1.21	0.81	0.73	0.92	0.45	0.95	1.70	1.28	0.45
	Hedo	Mean	1.11	1.33	0.74	1.27	1.34	0.19	0.89	0.43	0.29	0.85	1.24	0.65	0.88
		%	100	97	100	100	100	100	100	100	100	100	100	60	93
		Max-2w	1.40	1.38	0.90	2.16	1.49	0.21	1.58	0.73	0.45	1.18	1.61	0.65	2.16
		Min-2w	0.82	1.28	0.57	0.73	1.20	0.17	0.19	0.14	0.13	0.46	0.88	0.65	0.13
	Ogasawara	Mean	0.39	0.87	0.65	0.42	0.50	0.44	0.93	0.13	0.09	0.12	0.33	0.36	0.46
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.54	2.04	0.92	0.56	0.86	0.81	1.60	0.15	0.11	0.23	0.38	0.46	2.04
		Min-2w	0.27	0.33	0.41	0.28	0.27	0.07	0.25	0.11	0.07	N.D.	0.29	0.25	N.D.
	Tokyo	Mean					1.99	1.53	2.14	2.32	1.75	0.85	1.41	2.21	1.82
		%					100	100	100	100	100	100	100	100	100
		Max-2w					2.17	1.87	3.18	3.06	1.80	0.90	2.00	2.46	3.18
		Min-2w					1.82	1.19	1.09	1.57	1.70	0.79	0.94	1.95	2.08
Malaysia	Tanah Rata	Mean	0.26	0.47	0.41	0.36	0.44	0.17	0.21	0.46	0.36	0.30	0.32	0.13	0.32
		%	100	100	80	100	100	100	100	100	100	100	100	100	98
		Max-w	0.69	0.95	0.72	0.53	0.58	0.34	0.32	1.14	0.58	0.79	0.51	0.32	1.14
		Min-w	N.D.	0.26	0.03	0.20	0.31	0.02	0.15	0.07	0.17	0.03	0.15	0.02	N.D.
	Petaling Jaya	Mean	-	-	-	-	0.94	0.78	0.62	0.87	0.85	0.54	0.99	0.36	0.76
		%	0	0	0	0	100	100	100	100	100	100	100	100	67
		Max-w	-	-	-	-	1.26	1.52	0.88	1.51	1.24	0.90	1.78	0.47	1.78
		Min-w	-	-	-	-	0.59	0.07	0.20	0.17	0.21	0.16	0.07	0.03	0.03
	Danum Valley	Mean	N.D.	0.03	0.07	0.10	0.02	0.07	0.07	0.09	0.22	0.15	0.12	0.04	0.08
		%	100	100	50	100	100	100	100	100	100	100	100	100	96
		Max-2w	N.D.	0.05	0.07	0.19	0.05	0.08	0.09	0.17	0.34	0.36	0.20	0.05	0.36
		Min-2w	N.D.	N.D.	0.07	0.01	N.D.	0.06	0.04	N.D.	0.11	0.01	0.04	0.03	N.D.
Mongolia	Ulaanbaatar	Mean	5.89	4.84	3.55	1.00	0.27	0.48	0.50	0.38	0.06	-	-	-	1.96
		%	78	100	100	75	100	80	100	100	100	0	0	0	65
		Max-w	6.76	6.95	5.58	1.20	0.64	1.01	1.62	0.74	0.06	-	-	-	6.95
		Min-w	5.39	1.43	1.48	0.64	0.06	0.08	0.04	0.04	0.06	-	-	-	0.04
	Terelj	Mean	0.47	0.39	0.63	0.32	0.21	0.04	0.42	0.74	0.59	0.48	0.27	0.40	0.40
		%	100	100	100	50	100	100	100	100	100	100	100	100	96
		Max-2w	0.57	0.39	0.72	0.32	0.37	0.06	0.68	1.13	0.68	0.48	0.29	0.54	1.13
		Min-2w	0.37	0.39	0.54	0.32	0.11	0.01	0.15	0.35	0.50	0.48	0.25	0.23	0.01

Table 4.16 Particulate matter component: NH₄⁺

Unit : µg/m ³			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Philippines	Metro Manila	Mean	0.42	0.44	0.29	0.32	0.59	0.27	0.24	0.56	0.56	0.70	0.36	-	0.43
		%	100	100	100	100	100	100	100	100	100	100	100	0	92
		Max-w	1.11	0.71	0.46	0.67	1.34	0.61	0.40	0.95	0.98	1.31	0.86	-	1.34
		Min-w	0.03	0.22	0.08	0.05	0.23	N.D.	N.D.	N.D.	0.18	0.25	N.D.	-	N.D.
	Los Banos	Mean	0.38	0.29	0.30	0.18	0.46	0.14	0.16	0.37	0.45	0.35	0.15	0.08	0.28
		%	100	100	100	100	100	100	100	100	100	100	100	50	96
		Max-w	0.86	0.93	0.46	0.42	0.85	0.46	0.59	0.64	0.98	0.57	0.34	0.16	0.98
		Min-w	N.D.	N.D.	0.20	N.D.	0.11	N.D.	N.D.	0.03	N.D.	0.18	N.D.	N.D.	N.D.
	Mt. Sto. Tomas	Mean	0.11	0.07	0.09	0.22	0.12	0.04	0.11	0.04	0.10	0.07	0.04	-	0.09
		%	100	100	100	100	100	100	100	100	100	100	100	0	92
		Max-w	0.19	0.18	0.26	0.48	0.23	0.09	0.20	0.14	0.30	0.11	0.10	-	0.48
		Min-w	N.D.	N.D.	N.D.	0.11	N.D.	N.D.	0.03	N.D.	N.D.	N.D.	N.D.	-	N.D.
Republic of Korea	Kanghwa	Mean	1.15	0.72	0.39	1.33	2.48	2.70	2.10	0.29	0.79	0.63	0.20	0.12	0.85
		%	13	18	13	17	10	3	6	13	13	16	17	16	13
		Max-d	1.74	2.25	0.96	3.50	4.01	2.70	3.35	0.53	2.29	1.09	0.32	0.19	4.01
		Min-d	0.53	0.16	0.14	0.61	0.41	2.70	0.85	0.09	0.10	0.32	0.10	0.01	0.01
	Cheju (Kosan)	Mean	2.30	1.16	2.33	4.20	3.29	3.72	3.14	1.03	0.58	3.54	0.22	0.11	2.15
		%	16	14	16	17	13	17	19	16	17	16	17	16	16
		Max-d	4.11	1.80	3.91	10.92	6.22	9.33	7.14	1.90	1.13	11.50	0.33	0.21	11.50
		Min-d	0.91	0.84	0.98	0.92	2.21	0.80	0.51	0.06	0.07	0.69	0.14	0.02	0.02
	Imsil	Mean	2.72	3.95	7.47	6.84	3.31	3.04	0.66	0.64	1.55	1.29	0.30	0.09	2.37
		%	10	18	10	13	16	17	19	16	17	16	17	16	15
		Max-d	6.20	6.96	11.59	10.85	5.97	7.35	1.54	1.38	3.91	2.33	0.54	0.13	11.59
		Min-d	0.85	2.56	2.71	3.03	1.48	0.28	0.18	0.12	0.55	0.62	0.10	0.07	0.07
Russia	Mondy	Mean	0.02	0.04	0.04	0.02	0.01	N.D.	N.D.	N.D.	N.D.	0.02	0.05	0.03	0.02
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.04	0.06	0.05	0.02	0.02	N.D.	N.D.	N.D.	N.D.	0.03	0.05	0.03	0.06
		Min-2w	N.D.	0.02	0.03	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.05	0.03	N.D.
	Listvianka	Mean	0.22	0.20	0.49	0.52	0.44	0.19	0.21	0.13	0.29	0.24	0.45	0.55	0.33
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.34	0.39	0.88	0.73	0.72	0.41	0.29	0.25	0.43	0.33	0.54	0.78	0.88
		Min-w	0.11	N.D.	0.24	0.33	0.17	0.03	0.11	0.05	0.22	0.14	0.35	0.37	N.D.
	Irkutsk	Mean	0.99	0.96	0.86	4.10	0.78	1.25	0.16	0.16	0.31	0.65	0.70	N.D.	0.93
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	2.19	1.88	1.48	8.99	2.42	4.45	0.21	0.17	0.66	1.53	1.67	N.D.	8.99
		Min-w	0.18	0.03	0.13	0.42	0.14	0.11	0.05	0.14	N.D.	0.29	0.04	N.D.	N.D.
	Primorskaya	Mean	2.64	2.02	1.47	1.03	1.06	1.33	0.89	0.92	0.50	0.62	2.01	2.65	1.43
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	2.79	2.43	1.67	1.27	1.31	1.35	0.91	1.05	0.55	0.91	2.22	3.59	3.59
		Min-2w	2.50	1.62	1.28	0.78	0.80	1.31	0.88	0.78	0.45	0.33	1.81	1.72	0.33
Thailand	Bangkok	Mean	2.15	1.22	0.28	0.30	0.36	0.22	0.37	0.02	0.02	6.93	1.34	1.84	1.29
		%	100	100	100	100	100	100	100	71	100	100	100	100	97
		Max-10d	2.29	1.42	0.70	0.86	0.57	0.49	0.44	0.03	0.02	19.14	2.15	2.51	19.14
		Min-10d	1.95	1.02	0.03	0.02	0.02	0.08	0.28	0.02	0.01	0.03	0.44	1.11	0.01
	Patumthani	Mean	1.79	2.37	3.24	0.34	0.58	0.09	0.92	0.02	0.03	2.74	2.83	1.07	1.37
		%	69	100	100	100	100	100	100	155	100	100	100	100	97
		Max-10d	2.19	5.02	7.79	0.96	0.81	0.23	2.24	0.03	0.03	5.01	5.21	2.12	7.79
		Min-10d	1.39	0.33	0.72	0.02	0.15	0.02	0.20	0.02	0.03	0.02	1.04	0.02	0.02
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	-	0.02	-	-	-	N.D.	-	-	2.70	-	0.91
		%	0	0	0	25	0	0	0	42	0	0	52	0	12
		Max-2w	-	-	-	0.02	-	-	-	N.D.	-	-	2.70	-	2.70
		Min-2w	-	-	-	0.02	-	-	-	N.D.	-	-	2.70	-	N.D.
	Chiangmai (Mae Hia)	Mean	0.66	1.46	1.14	0.38	0.51	0.08	0.11	0.06	0.09	2.40	0.95	1.00	0.74
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	1.06	3.11	1.73	0.56	0.56	0.17	0.19	0.06	0.28	5.07	1.65	2.04	5.07
		Min-10d	0.16	0.29	0.26	0.22	0.46	N.D.	N.D.	0.05	N.D.	0.04	0.48	0.34	N.D.
	Nakhon Ratchasima	Mean	1.92	1.76	1.64	1.24	0.60	0.86	0.71	0.59	1.26	1.65	3.09	1.09	1.37
		%	100	100	100	100	100	100	100	100	100	67	100	68	94
		Max-10d	3.37	1.83	2.12	1.49	1.15	1.21	1.13	0.73	2.22	2.52	4.28	1.40	4.28
		Min-10d	0.83	1.68	1.10	0.98	0.24	0.40	0.45	0.37	0.68	0.79	2.00	0.77	0.24
Viet Nam	Ha Noi	Mean	1.98	2.42	7.04	10.44	3.54	1.17	0.70	2.58	1.72	4.70	5.25	6.31	3.99
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	2.85	2.46	10.98	21.92	5.26	1.68	1.21	6.06	2.87	8.00	8.42	10.63	21.92
		Min-w	1.35	2.37	2.78	3.19	2.29	0.39	0.28	1.02	0.50	1.78	2.86	3.91	0.28
	Hoa Binh	Mean	3.89	5.09	1.73	1.31	1.34	0.66	0.21	0.73	0.71	2.30	4.20	5.03	2.24
		%	100	100	100	100	100	100	100	100	100	75	100	100	98
		Max-w	5.49	7.66	3.37	2.29	2.20	1.24	0.45	2.87	0.94	3.58	5.75	6.07	7.66
		Min-w	2.68	2.90	0.13	0.56	0.39	0.23	0.10	0.10	0.49	0.29	2.74	3.89	0.10

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

% : monthly or annual percentages of period of available data

Table 4.17 Particulate matter component: Na⁺

Unit : µg/m ³			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
China	Hongwen	Mean					1.40	1.11	1.26	1.67	3.10	0.57	1.03	1.49	1.39
		%					100	100	100	100	100	100	100	100	100
		Max-2w					1.81	1.40	2.45	2.58	9.09	2.28	2.11	2.58	9.09
		Min-2w					1.01	0.71	0.30	0.36	0.09	N.D.	N.D.	0.35	N.D.
Indonesia	Serpong	Mean	0.08	0.30	0.18	0.18	0.21	N.D.	0.04	0.13	0.02	0.03	0.10	0.01	0.11
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.15	0.30	0.40	0.21	0.32	N.D.	0.08	0.19	0.03	0.04	0.16	0.01	0.40
		Min-2w	N.D.	0.30	0.06	0.16	0.10	N.D.	N.D.	0.06	N.D.	0.02	0.04	0.01	N.D.
Japan	Rishiri	Mean	0.71	2.04	2.00	0.94	1.70	0.89	0.95	2.73	1.39	3.76	2.34	0.90	1.78
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.98	2.23	2.74	1.27	2.44	1.27	1.48	3.70	2.25	4.06	3.03	0.97	4.06
		Min-2w	0.45	1.85	1.25	0.61	1.07	0.50	0.41	1.76	0.52	3.45	1.65	0.83	0.41
	Tappi	Mean	4.13	11.16	9.97	1.39	3.01	1.12	1.09	2.15	1.92	4.63	6.42	5.12	4.30
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	6.30	14.16	13.09	1.39	4.79	1.34	1.22	2.34	2.21	8.64	9.61	6.35	14.16
		Min-2w	1.97	8.17	6.85	1.39	1.67	0.91	0.95	1.96	1.62	2.50	3.24	3.90	0.91
	Sado-seki	Mean	-	3.82	1.38	2.40	2.16	1.01	1.38	1.45	2.17	2.66	4.12	4.68	2.53
		%	0	100	100	100	100	100	100	100	100	100	100	100	92
		Max-2w	-	5.04	1.64	2.73	3.21	1.07	1.91	1.62	2.55	3.03	4.51	4.85	5.04
		Min-2w	-	2.61	1.12	2.07	1.60	0.95	0.85	1.28	1.80	2.26	3.72	4.51	0.85
	Happo	Mean	0.08	0.07	0.09	0.08	0.14	0.04	0.01	0.10	0.02	0.02	0.15	0.10	0.08
		%	100	100	100	100	100	100	100	100	100	100	100	67	96
		Max-2w	0.12	0.09	0.09	0.12	0.18	0.07	0.02	0.14	0.03	0.03	0.23	0.10	0.23
		Min-2w	0.05	0.05	0.09	0.03	0.09	N.D.	N.D.	0.07	0.01	0.01	0.07	0.09	N.D.
	Ijira	Mean	0.22	0.31	0.27	0.42	0.47	0.22	0.10	0.43	0.29	0.26	0.30	0.13	0.29
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.31	0.31	0.37	0.42	0.57	0.25	0.11	0.61	0.37	0.31	0.41	0.15	0.61
		Min-2w	0.13	0.31	0.17	0.42	0.39	0.18	0.10	0.25	0.21	0.22	0.20	0.12	0.10
	Oki	Mean	3.16	3.36	2.53	2.08	2.59	0.37	0.34	1.08	1.93	1.53	3.58	4.17	2.21
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	4.88	3.45	2.56	2.35	3.74	0.72	0.57	1.30	2.38	2.87	4.05	4.18	4.88
		Min-2w	1.43	3.28	2.50	1.80	1.55	0.02	0.11	0.86	1.49	0.14	3.11	4.16	0.02
	Banryu	Mean	1.40	1.61	1.89	1.67	1.40	1.45	0.60	0.41	0.97	1.48	1.65	1.46	1.33
		%	100	100	100	100	100	100	100	100	100	100	52	100	96
		Max-2w	2.15	1.70	2.60	1.88	1.79	1.96	0.63	0.49	1.29	1.92	1.65	1.59	2.60
		Min-2w	0.65	1.52	1.18	1.46	0.96	0.93	0.58	0.33	0.66	0.98	1.65	1.33	0.33
	Yusuhara	Mean	0.46	0.59	0.50	0.44	0.48	0.30	0.15	0.34	0.41	0.45	0.55	0.48	0.43
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.48	0.59	0.72	0.74	0.59	0.31	0.19	0.43	0.42	0.63	0.58	0.49	0.74
		Min-2w	0.44	0.59	0.29	0.14	0.43	0.28	0.12	0.25	0.40	0.34	0.52	0.47	0.12
	Hedo	Mean	5.60	4.42	6.17	3.92	2.69	2.32	3.33	3.09	3.94	5.89	6.88	7.19	4.54
		%	100	97	100	100	100	100	100	100	100	100	100	60	93
		Max-2w	6.32	4.78	7.54	4.97	3.04	2.69	3.84	3.45	6.16	7.53	8.01	7.19	8.01
		Min-2w	4.88	4.06	4.79	2.99	2.34	1.95	2.81	2.73	1.72	3.70	5.76	7.19	1.72
	Ogasawara	Mean	2.99	3.77	4.36	3.49	1.93	1.43	1.32	2.60	2.48	3.20	2.63	3.22	2.95
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	4.07	4.65	6.03	3.57	2.25	1.49	1.66	3.52	3.56	4.86	3.05	3.72	6.03
		Min-2w	2.16	3.12	3.59	3.41	1.37	1.36	0.98	1.69	1.39	2.05	2.21	2.72	0.98
	Tokyo	Mean				1.18	1.23	0.92	0.67	1.13	1.83	1.02	0.59	0.36	0.99
		%				100	100	100	100	100	100	100	100	100	100
		Max-2w				1.46	1.27	1.03	0.81	1.39	1.99	1.15	0.62	0.39	1.99
		Min-2w				0.91	1.19	0.81	0.53	0.88	1.66	0.91	0.57	0.33	0.33
Malaysia	Tanah Rata	Mean	0.25	0.33	0.25	0.12	0.09	0.11	0.04	0.13	0.13	0.08	0.14	0.09	0.14
		%	100	100	80	100	100	100	100	100	100	100	100	100	98
		Max-w	0.76	0.77	0.41	0.35	0.10	0.28	0.07	0.29	0.18	0.23	0.51	0.13	0.77
		Min-w	0.02	0.07	0.05	0.03	0.07	0.02	0.03	0.01	0.08	N.D.	0.01	0.02	N.D.
	Petaling Jaya	Mean	-	-	-	-	0.44	0.23	0.22	0.45	0.32	0.18	0.46	0.21	0.32
		%	0	0	0	0	100	100	100	100	100	100	100	100	67
		Max-w	-	-	-	-	0.91	0.53	0.37	1.05	0.54	0.24	1.26	0.33	1.26
		Min-w	-	-	-	-	0.19	0.02	0.02	0.05	0.09	0.13	0.01	N.D.	N.D.
	Danum Valley	Mean	0.12	0.18	0.32	0.12	0.04	0.07	0.08	0.04	0.14	0.12	0.28	0.21	0.13
		%	100	100	50	100	100	100	100	100	100	100	100	100	96
		Max-2w	0.24	0.35	0.32	0.21	0.07	0.07	0.13	0.07	0.17	0.30	0.53	0.23	0.53
		Min-2w	N.D.	N.D.	0.32	0.02	0.02	0.06	0.04	N.D.	0.11	N.D.	0.04	0.18	N.D.
Mongolia	Ulaanbaatar	Mean	0.13	0.73	0.40	0.36	0.31	0.30	0.18	0.19	0.21	-	-	-	0.32
		%	78	100	100	75	100	80	100	100	100	0	0	0	65
		Max-w	0.31	1.03	0.53	0.45	0.47	0.53	0.23	0.33	0.21	-	-	-	1.03
		Min-w	0.04	0.35	0.14	0.31	0.17	0.14	0.10	0.13	0.21	-	-	-	0.04
	Terelj	Mean	0.07	0.10	0.08	0.05	0.12	0.03	0.04	0.15	0.11	0.22	0.27	0.17	0.12
		%	100	100	100	50	100	100	100	100	100	100	100	100	96
		Max-2w	0.08	0.17	0.08	0.05	0.21	0.03	0.05	0.29	0.14	0.22	0.36	0.22	0.36
		Min-2w	0.05	0.02	0.07	0.05	0.08	0.03	0.02	N.D.	0.07	0.22	0.18	0.14	N.D.

Table 4.17 Particulate matter component: Na⁺

Unit : µg/m ³			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Philippines	Metro Manila	Mean	0.96	0.93	1.29	0.81	0.59	0.32	0.68	0.71	0.40	0.79	1.12	-	0.79
		%	100	100	100	100	100	100	100	100	100	100	100	0	92
		Max-w	1.55	1.25	2.27	1.11	0.83	0.50	1.03	1.75	0.85	1.14	1.73	-	2.27
		Min-w	0.32	0.73	0.41	0.54	0.30	0.24	0.39	0.19	0.24	0.10	0.56	-	0.10
	Los Banos	Mean	1.47	1.12	1.49	1.97	1.22	0.39	0.38	0.36	0.15	0.44	1.65	0.89	0.98
		%	100	100	100	100	100	100	100	100	100	100	100	50	96
		Max-w	2.13	3.16	1.81	5.58	3.68	0.89	0.79	0.62	0.33	0.84	2.35	1.78	5.58
		Min-w	N.D.	N.D.	0.97	N.D.	0.25	0.04	0.14	0.16	N.D.	0.05	1.07	N.D.	N.D.
	Mt. Sto. Tomas	Mean	0.05	0.12	N.D.	0.03	0.02	0.06	0.03	0.04	0.05	0.07	0.07	-	0.05
		%	100	100	100	100	100	100	100	100	100	100	100	0	92
		Max-w	0.22	0.49	N.D.	0.09	0.07	0.11	0.06	0.07	0.09	0.17	0.21	-	0.49
		Min-w	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	N.D.	N.D.	-	N.D.
Republic of Korea	Kanghwa	Mean	0.27	0.30	0.16	0.24	0.25	0.21	0.24	0.26	0.23	0.19	0.37	0.32	0.26
		%	13	18	13	17	10	3	6	13	13	16	17	16	13
		Max-d	0.42	0.50	0.20	0.34	0.40	0.21	0.26	0.71	0.47	0.30	0.67	1.16	1.16
		Min-d	0.17	0.09	0.10	0.12	0.13	0.21	0.22	0.07	0.08	0.12	0.10	0.03	0.03
	Cheju (Kosan)	Mean	0.51	0.39	0.27	0.55	0.37	0.53	0.59	0.31	0.47	0.58	0.06	0.03	0.39
		%	16	14	16	17	13	17	19	16	17	16	17	16	16
		Max-d	1.19	0.53	0.41	0.83	0.49	0.85	0.96	0.46	0.62	1.15	0.11	0.07	1.19
		Min-d	0.20	0.22	0.13	0.30	0.30	0.31	0.35	0.19	0.32	0.32	0.03	N.D.	N.D.
	Imsil	Mean	0.62	0.75	0.75	0.60	0.54	0.46	0.46	0.42	0.26	0.34	0.03	0.02	0.42
		%	10	18	10	13	16	17	19	16	17	16	17	16	15
		Max-d	0.78	1.06	0.89	0.78	0.85	0.65	0.61	0.54	0.39	0.44	0.06	0.03	1.06
		Min-d	0.34	0.31	0.64	0.39	0.25	0.31	0.27	0.36	0.18	0.24	N.D.	N.D.	N.D.
Russia	Mondy	Mean	N.D.	0.01	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	N.D.	N.D.	0.01
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	N.D.	0.02	0.01	N.D.	0.01	N.D.	N.D.	N.D.	N.D.	0.02	N.D.	N.D.	0.02
		Min-2w	N.D.	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Listvianka	Mean	0.08	0.05	0.09	0.09	0.08	0.07	0.03	0.03	0.05	0.08	0.09	0.10	0.07
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.19	0.10	0.14	0.23	0.16	0.14	0.05	0.06	0.08	0.14	0.15	0.11	0.23
		Min-w	0.01	0.01	0.05	0.03	0.04	0.02	0.02	0.01	0.03	0.05	0.04	0.08	0.01
	Irkutsk	Mean	0.09	0.16	0.24	0.13	0.07	0.09	0.11	0.07	0.09	0.19	0.14	N.D.	0.12
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.18	0.35	0.49	0.20	0.10	0.20	0.15	0.10	0.19	0.29	0.32	N.D.	0.49
		Min-w	0.03	N.D.	0.06	0.07	0.04	0.03	0.08	0.05	0.01	0.15	0.02	N.D.	N.D.
	Primorskaya	Mean	0.11	0.50	0.28	0.34	0.48	0.28	0.21	0.28	0.09	0.10	0.20	0.16	0.25
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.11	0.76	0.40	0.57	0.66	0.38	0.22	0.39	0.14	0.20	0.27	0.23	0.76
		Min-2w	0.11	0.23	0.15	0.11	0.30	0.18	0.21	0.18	0.05	N.D.	0.13	0.09	N.D.
Thailand	Bangkok	Mean	0.46	0.45	0.56	0.32	0.28	0.22	0.38	0.40	0.34	0.36	0.21	0.64	0.38
		%	100	100	100	100	100	100	100	71	100	100	100	100	97
		Max-10d	0.59	0.78	1.14	0.70	0.53	0.47	0.42	0.62	0.68	0.67	0.36	0.81	1.14
		Min-10d	0.29	0.12	0.08	0.08	0.07	0.08	0.34	0.18	0.05	0.17	0.07	0.54	0.05
	Patumthani	Mean	0.64	0.87	0.51	0.87	0.36	0.04	0.24	0.08	0.04	0.25	0.41	0.54	0.40
		%	69	100	100	100	100	100	100	155	100	100	100	100	97
		Max-10d	0.74	1.38	0.77	1.97	0.60	0.05	0.45	0.19	0.05	0.49	0.57	0.58	1.97
		Min-10d	0.53	0.13	0.04	0.11	0.06	0.03	0.06	0.02	0.03	0.02	0.23	0.50	0.02
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	-	0.02	-	-	-	0.09	-	-	0.24	-	0.12
		%	0	0	0	25	0	0	0	42	0	0	52	0	12
		Max-2w	-	-	-	0.02	-	-	-	0.09	-	-	0.24	-	0.24
		Min-2w	-	-	-	0.02	-	-	-	0.09	-	-	0.24	-	0.02
	Chiangmai (Mae Hia)	Mean	0.22	0.17	0.27	0.24	0.21	0.67	0.19	0.11	0.14	0.17	0.13	0.21	0.23
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	0.56	0.21	0.58	0.39	0.27	1.87	0.28	0.16	0.23	0.19	0.25	0.27	1.87
		Min-10d	N.D.	0.10	0.04	0.06	0.07	0.07	0.04	0.07	0.10	0.13	0.04	0.16	N.D.
	Nakhon Ratchasima	Mean	0.29	0.36	0.60	0.27	0.22	0.24	0.26	0.36	0.12	0.17	0.23	0.22	0.28
		%	100	100	100	100	100	100	100	100	100	67	100	68	94
		Max-10d	0.57	0.40	0.78	0.37	0.55	0.29	0.46	0.68	0.20	0.17	0.29	0.25	0.78
		Min-10d	0.15	0.32	0.28	0.16	0.03	0.19	0.07	0.13	0.04	0.17	0.12	0.20	0.03
Viet Nam	Ha Noi	Mean	1.56	1.80	2.34	6.88	2.27	0.32	1.16	1.29	0.46	0.31	0.57	1.29	1.64
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	2.52	2.42	5.49	9.55	6.98	0.48	2.33	2.51	1.02	0.49	1.14	1.97	9.55
		Min-w	0.91	1.47	0.55	4.46	0.45	0.02	0.04	0.49	0.08	0.06	0.26	1.00	0.02
	Hoa Binh	Mean	0.31	0.76	0.31	0.25	0.17	0.08	0.07	0.02	0.05	0.12	0.24	0.67	0.25
		%	100	100	100	100	100	100	100	100	100	75	100	100	98
		Max-w	0.49	1.17	0.66	0.61	0.50	0.18	0.24	0.08	0.16	0.26	0.42	1.06	1.17
		Min-w	0.18	0.27	0.13	0.05	0.04	N.D.	N.D.	N.D.	N.D.	0.03	0.12	0.36	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

% : monthly or annual percentages of period of available data

Table 4.18 Particulate matter component: K⁺

Unit : µg/m ³			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
China	Hongwen	Mean					0.86	0.26	0.15	0.41	0.62	0.19	0.91	1.37	0.57
		%					100	100	100	100	100	100	100	100	100
		Max-2w					1.62	0.38	0.44	1.07	1.85	0.72	2.04	2.60	2.60
		Min-2w					0.19	0.12	N.D.	N.D.	N.D.	N.D.	0.04	0.27	N.D.
Indonesia	Serpong	Mean	0.05	0.04	0.09	0.06	0.11	0.06	0.01	0.05	N.D.	0.04	N.D.	0.02	0.05
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.07	0.07	0.12	0.07	0.18	0.12	0.02	0.07	N.D.	0.05	N.D.	0.03	0.18
		Min-2w	0.03	0.02	0.07	0.04	0.04	N.D.	N.D.	0.03	N.D.	0.03	N.D.	N.D.	N.D.
Japan	Rishiri	Mean	0.06	0.19	0.11	0.06	0.12	0.10	0.08	0.14	0.09	0.26	0.18	0.09	0.13
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.07	0.23	0.14	0.07	0.17	0.13	0.11	0.16	0.13	0.36	0.21	0.10	0.36
		Min-2w	0.04	0.14	0.09	0.05	0.09	0.06	0.04	0.12	0.04	0.19	0.14	0.08	0.04
	Tappi	Mean	0.19	0.63	0.50	0.12	0.21	0.12	0.07	0.14	0.11	0.28	0.33	0.35	0.25
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.25	0.85	0.66	0.12	0.27	0.13	0.09	0.14	0.15	0.41	0.50	0.44	0.85
		Min-2w	0.13	0.41	0.33	0.11	0.16	0.10	0.05	0.13	0.07	0.19	0.17	0.26	0.05
	Sado-seki	Mean	-	0.24	0.08	0.16	0.20	0.12	0.12	0.11	0.11	0.13	0.20	0.20	0.16
		%	0	100	100	100	100	100	100	100	100	100	100	100	92
		Max-2w	-	0.33	0.11	0.17	0.27	0.18	0.13	0.12	0.12	0.15	0.20	0.21	0.33
		Min-2w	-	0.15	0.04	0.14	0.15	0.07	0.11	0.10	0.11	0.10	0.19	0.20	0.04
	Happo	Mean	0.03	0.04	0.04	0.07	0.08	0.09	0.04	0.06	0.03	0.04	0.06	0.04	0.05
		%	100	100	100	100	100	100	100	100	100	100	100	67	96
		Max-2w	0.04	0.04	0.04	0.10	0.10	0.10	0.05	0.08	0.04	0.05	0.08	0.04	0.10
		Min-2w	N.D.	0.03	0.04	0.04	0.06	0.08	0.03	0.05	0.01	0.04	0.04	0.04	N.D.
	Ijira	Mean	0.10	0.16	0.09	0.20	0.20	0.19	0.15	0.17	0.15	0.13	0.16	0.09	0.15
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.13	0.17	0.09	0.21	0.24	0.22	0.16	0.17	0.16	0.14	0.19	0.11	0.24
		Min-2w	0.08	0.14	0.08	0.19	0.14	0.16	0.13	0.16	0.14	0.13	0.12	0.07	0.07
	Oki	Mean	0.25	0.32	0.25	0.24	0.35	0.06	0.06	0.09	0.13	0.12	0.36	0.30	0.21
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.30	0.37	0.39	0.29	0.47	0.12	0.12	0.12	0.16	0.22	0.44	0.34	0.47
		Min-2w	0.19	0.27	0.12	0.20	0.15	N.D.	N.D.	0.06	0.11	N.D.	0.28	0.27	N.D.
	Banryu	Mean	0.27	0.27	0.24	0.27	0.36	0.15	0.16	0.06	0.11	0.17	0.26	0.23	0.21
		%	100	100	100	100	100	100	100	100	100	100	52	100	96
		Max-2w	0.28	0.38	0.29	0.32	0.44	0.20	0.20	0.08	0.17	0.26	0.26	0.28	0.44
		Min-2w	0.26	0.16	0.18	0.21	0.26	0.10	0.13	0.03	0.05	0.10	0.26	0.17	0.03
	Yusuhara	Mean	0.21	0.22	0.20	0.18	0.28	0.12	0.12	0.08	0.07	0.12	0.23	0.36	0.18
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.25	0.35	0.24	0.26	0.31	0.14	0.16	0.09	0.08	0.15	0.23	0.48	0.48
		Min-2w	0.18	0.10	0.16	0.09	0.26	0.10	0.07	0.07	0.06	0.08	0.22	0.24	0.06
	Hedo	Mean	0.38	0.35	0.31	0.35	0.40	0.19	0.20	0.18	0.23	0.31	0.40	0.35	0.31
		%	100	97	100	100	100	100	100	100	100	100	100	60	93
		Max-2w	0.42	0.38	0.33	0.43	0.50	0.24	0.25	0.20	0.30	0.36	0.40	0.35	0.50
		Min-2w	0.34	0.32	0.30	0.28	0.30	0.13	0.15	0.15	0.16	0.22	0.39	0.35	0.13
	Ogasawara	Mean	0.14	0.23	0.18	0.20	0.14	0.10	0.12	0.12	0.14	0.15	0.13	0.21	0.16
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.17	0.37	0.26	0.23	0.17	0.13	0.13	0.16	0.20	0.18	0.14	0.21	0.37
		Min-2w	0.11	0.15	0.14	0.18	0.11	0.07	0.10	0.08	0.09	0.11	0.11	0.20	0.07
	Tokyo	Mean				0.17	0.24	0.12	0.17	0.30	0.18	0.19	0.26	0.18	0.20
		%				100	100	100	100	100	100	100	100	100	100
		Max-2w				0.19	0.33	0.12	0.19	0.32	0.20	0.21	0.30	0.20	0.33
		Min-2w				0.16	0.16	0.11	0.14	0.27	0.17	0.17	0.21	0.16	0.11
Malaysia	Tanah Rata	Mean	0.10	0.14	0.04	0.02	0.12	0.08	0.07	0.13	0.11	0.10	0.06	0.03	0.08
		%	100	100	80	100	100	100	100	100	100	100	100	100	98
		Max-w	0.20	0.24	0.06	0.05	0.15	0.14	0.07	0.27	0.20	0.27	0.08	0.08	0.27
		Min-w	0.01	0.07	N.D.	N.D.	0.09	N.D.	0.05	0.01	0.06	0.02	0.04	N.D.	N.D.
	Petaling Jaya	Mean	-	-	-	-	0.35	0.28	0.19	0.31	0.33	0.21	0.25	0.04	0.25
		%	0	0	0	0	100	100	100	100	100	100	100	100	67
		Max-w	-	-	-	-	0.46	0.70	0.31	0.63	0.50	0.30	0.47	0.05	0.70
		Min-w	-	-	-	-	0.11	0.04	0.04	0.06	0.06	0.09	0.03	N.D.	N.D.
	Danum Valley	Mean	0.03	0.04	0.05	0.04	0.07	0.13	0.08	0.07	0.23	0.19	0.07	0.05	0.09
		%	100	100	50	100	100	100	100	100	100	100	100	100	96
		Max-2w	0.05	0.07	0.05	0.08	0.16	0.18	0.09	0.14	0.32	0.39	0.08	0.07	0.39
		Min-2w	N.D.	N.D.	0.05	N.D.	0.01	0.09	0.08	N.D.	0.15	0.01	0.06	0.04	N.D.
Mongolia	Ulaanbaatar	Mean	0.05	0.39	0.28	0.40	0.24	0.27	0.24	0.19	0.15	-	-	-	0.25
		%	78	100	100	75	100	80	100	100	100	0	0	0	65
		Max-w	0.06	0.74	0.75	0.49	0.41	0.53	0.48	0.31	0.15	-	-	-	0.75
		Min-w	0.04	0.23	0.08	0.31	0.15	0.12	0.10	0.12	0.15	-	-	-	0.04
	Terelj	Mean	0.15	0.11	0.09	0.04	0.09	0.04	0.04	0.16	0.14	0.27	0.29	0.23	0.14
		%	100	100	100	50	100	100	100	100	100	100	100	100	96
		Max-2w	0.15	0.11	0.14	0.04	0.17	0.04	0.07	0.26	0.17	0.27	0.36	0.25	0.36
		Min-2w	0.14	0.10	0.03	0.04	0.03	0.03	N.D.	0.06	0.10	0.27	0.21	0.20	N.D.

Table 4.18 Particulate matter component: K⁺

Unit : µg/m ³			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Philippines	Metro Manila	Mean	0.58	0.37	0.46	0.60	0.32	0.33	0.50	0.37	0.24	0.50	0.24	-	0.41
		%	100	100	100	100	100	100	100	100	100	100	100	0	92
		Max-w	0.93	0.56	0.73	1.10	0.37	0.51	1.11	0.83	0.38	0.83	0.28	-	1.11
		Min-w	0.27	0.25	0.23	0.25	0.26	0.20	0.26	0.08	0.03	0.13	0.18	-	0.03
	Los Banos	Mean	0.15	0.30	0.27	0.37	0.74	0.23	0.17	0.21	0.14	0.37	0.17	0.08	0.28
		%	100	100	100	100	100	100	100	100	100	100	100	50	96
		Max-w	0.32	1.08	0.42	1.03	2.26	0.30	0.30	0.23	0.32	1.14	0.29	0.15	2.26
		Min-w	N.D.	N.D.	0.09	N.D.	0.19	0.11	N.D.	0.19	N.D.	0.07	0.08	N.D.	N.D.
	Mt. Sto. Tomas	Mean	0.10	0.12	N.D.	0.03	N.D.	0.08	0.03	0.06	0.02	0.07	0.08	-	0.06
		%	100	100	100	100	100	100	100	100	100	100	100	0	92
		Max-w	0.42	0.33	0.04	0.07	0.04	0.14	0.06	0.15	0.03	0.17	0.26	-	0.42
		Min-w	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.02	0.02	N.D.	-	N.D.
Republic of Korea	Kanghwa	Mean	0.40	1.09	0.10	0.21	0.24	0.33	0.25	0.11	0.19	0.18	0.40	0.24	0.30
		%	13	11	10	17	10	3	6	13	13	16	17	16	12
		Max-d	0.54	1.61	0.22	0.39	0.41	0.33	0.36	0.24	0.38	0.23	1.12	0.32	1.61
		Min-d	0.23	0.65	N.D.	0.06	0.14	0.33	0.13	0.02	0.11	0.10	0.07	0.13	N.D.
	Cheju (Kosan)	Mean	0.41	0.28	0.16	0.62	0.46	0.54	0.47	0.22	0.29	0.50	0.48	0.31	0.40
		%	16	14	16	17	13	17	19	13	17	16	17	16	16
		Max-d	0.75	0.91	0.38	1.56	0.80	0.79	1.04	0.28	0.43	1.12	0.76	0.48	1.56
		Min-d	0.12	N.D.	0.05	0.05	0.30	0.23	0.18	0.16	0.17	0.15	0.32	0.15	N.D.
	Imsil	Mean	0.73	0.28	0.09	0.33	0.18	0.41	0.18	0.61	0.24	0.30	0.35	0.26	0.32
		%	10	18	10	13	16	17	16	13	17	16	17	16	15
		Max-d	1.07	0.41	0.12	0.53	0.51	1.01	0.30	1.75	0.56	0.49	0.67	0.71	1.75
		Min-d	0.38	0.07	0.04	0.12	N.D.	N.D.	0.05	N.D.	0.13	0.17	0.17	0.09	N.D.
Russia	Mondy	Mean	0.01	N.D.	N.D.	N.D.	N.D.	0.01	0.01	0.02	N.D.	0.03	N.D.	N.D.	0.01
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.02	0.01	N.D.	N.D.	0.01	0.01	0.01	0.02	N.D.	0.03	N.D.	N.D.	0.03
		Min-2w	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	0.01	0.02	N.D.	0.03	N.D.	N.D.	N.D.
	Listvianka	Mean	0.09	0.06	0.05	0.13	0.09	0.08	0.02	0.03	0.05	0.04	0.03	0.05	0.06
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.17	0.09	0.07	0.29	0.19	0.17	0.05	0.08	0.10	0.08	0.06	0.07	0.29
		Min-w	0.03	0.03	0.02	0.04	0.01	0.01	N.D.	0.01	0.03	0.02	0.01	0.04	N.D.
	Irkutsk	Mean	0.13	0.11	0.11	0.15	0.10	0.13	0.12	0.07	0.10	0.13	0.09	N.D.	0.11
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.22	0.28	0.21	0.27	0.19	0.31	0.14	0.10	0.20	0.17	0.18	N.D.	0.31
		Min-w	0.09	0.01	0.02	0.06	0.04	0.05	0.09	0.05	N.D.	0.10	0.01	N.D.	N.D.
	Primorskaya	Mean	1.01	0.67	0.48	0.29	0.41	0.21	0.13	0.16	0.17	0.20	0.66	0.88	0.44
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.02	0.72	0.60	0.38	0.59	0.26	0.16	0.19	0.18	0.37	0.68	1.02	1.02
		Min-2w	1.01	0.62	0.36	0.20	0.22	0.16	0.10	0.13	0.17	0.03	0.64	0.75	0.03
Thailand	Bangkok	Mean	1.17	0.21	0.17	0.18	0.23	0.20	0.32	0.24	0.39	0.33	0.40	1.14	0.43
		%	100	100	100	100	100	100	100	71	100	100	100	100	97
		Max-10d	1.49	0.24	0.37	0.46	0.39	0.38	0.39	0.44	0.57	0.83	0.65	1.27	1.49
		Min-10d	0.73	0.18	0.04	0.03	0.05	0.06	0.27	0.05	0.11	0.03	0.07	0.90	0.03
	Patumthani	Mean	1.54	0.85	0.61	0.25	0.43	0.04	14.92	0.08	0.09	0.36	1.07	0.57	1.82
		%	69	100	100	100	100	100	100	155	100	100	100	100	97
		Max-10d	1.74	1.77	0.98	0.52	0.62	0.05	44.09	0.11	0.16	0.54	1.69	1.04	44.09
		Min-10d	1.33	0.11	0.36	0.02	0.30	0.03	0.33	0.03	0.03	0.02	0.49	0.10	0.02
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	-	0.02	-	-	-	N.D.	-	-	0.43	-	0.16
		%	0	0	0	25	0	0	0	42	0	0	52	0	12
		Max-2w	-	-	-	0.02	-	-	-	N.D.	-	-	0.43	-	0.43
		Min-2w	-	-	-	0.02	-	-	-	N.D.	-	-	0.43	-	N.D.
	Chiangmai (Mae Hia)	Mean	0.73	1.45	2.16	0.22	0.30	0.32	0.15	0.08	0.06	0.30	0.37	0.78	0.58
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	0.94	1.98	3.08	0.35	0.48	0.45	0.23	0.24	0.17	0.49	0.51	1.00	3.08
		Min-10d	0.55	0.48	1.18	N.D.	0.17	0.18	N.D.	N.D.	N.D.	N.D.	0.21	0.61	N.D.
	Nakhon Ratchasima	Mean	0.84	0.72	0.60	0.42	0.18	0.13	0.12	0.14	0.17	0.21	0.46	0.30	0.37
		%	100	100	100	100	100	100	100	100	100	67	100	68	94
		Max-10d	1.17	0.96	0.71	0.55	0.26	0.14	0.18	0.19	0.24	0.27	0.65	0.38	1.17
		Min-10d	0.64	0.48	0.45	0.23	0.05	0.11	0.09	0.10	0.12	0.16	0.31	0.22	0.05
Viet Nam	Ha Noi	Mean	1.19	1.17	2.07	6.94	2.63	0.58	1.14	2.35	1.44	1.24	2.01	2.02	2.04
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	1.63	1.31	4.36	11.13	4.02	1.15	2.20	3.05	2.83	1.46	2.84	3.64	11.13
		Min-w	0.75	1.00	0.90	4.15	0.74	0.10	0.14	1.81	0.18	1.06	0.99	0.88	0.10
	Hoa Binh	Mean	2.09	3.30	2.59	0.79	1.13	0.89	0.16	0.16	0.37	0.88	1.19	3.42	1.41
		%	100	100	100	100	100	100	100	100	100	75	100	100	98
		Max-w	3.50	4.77	3.70	1.31	3.55	1.99	0.39	0.29	0.91	1.59	1.72	5.40	5.40
		Min-w	0.81	1.45	0.26	0.16	0.16	0.05	N.D.	N.D.	0.15	0.23	0.67	2.66	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

% : monthly or annual percentages of period of available data

Table 4.19 Particulate matter component: Mg²⁺

Unit : µg/m³			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
China	Hongwen	Mean					0.34	0.20	0.18	0.30	0.56	0.14	0.26	0.37	0.28
		%					100	100	100	100	100	100	100	100	100
		Max-2w					0.56	0.23	0.35	0.58	1.63	0.54	0.47	0.61	1.63
		Min-2w					0.12	0.15	0.03	N.D.	0.01	N.D.	0.03	0.10	N.D.
Indonesia	Serpong	Mean	0.03	0.05	0.04	0.05	N.D.	N.D.	0.05	0.05	0.05	0.02	0.25	0.02	0.05
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.05	0.05	0.07	0.06	N.D.	N.D.	0.09	0.05	0.07	0.03	0.46	0.02	0.46
		Min-2w	0.01	0.05	0.02	0.03	N.D.	N.D.	0.02	0.04	0.04	0.02	0.04	0.02	N.D.
Japan	Rishiri	Mean	0.09	0.25	0.24	0.11	0.21	0.11	0.12	0.33	0.17	0.46	0.29	0.12	0.22
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.12	0.27	0.32	0.15	0.30	0.16	0.18	0.44	0.27	0.51	0.37	0.13	0.51
		Min-2w	0.06	0.22	0.16	0.07	0.13	0.06	0.05	0.21	0.06	0.42	0.21	0.11	0.05
	Tappi	Mean	0.49	1.36	1.23	0.19	0.37	0.14	0.14	0.25	0.23	0.54	0.76	0.63	0.52
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.74	1.74	1.62	0.20	0.58	0.17	0.16	0.28	0.27	1.00	1.13	0.78	1.74
		Min-2w	0.24	0.99	0.84	0.17	0.21	0.12	0.12	0.22	0.20	0.30	0.40	0.47	0.12
	Sado-seki	Mean	-	0.46	0.17	0.31	0.31	0.12	0.16	0.17	0.25	0.31	0.49	0.56	0.31
		%	0	100	100	100	100	100	100	100	100	100	100	100	92
		Max-2w	-	0.61	0.21	0.33	0.42	0.13	0.22	0.19	0.29	0.34	0.54	0.57	0.61
		Min-2w	-	0.31	0.14	0.30	0.25	0.12	0.10	0.15	0.21	0.26	0.44	0.54	0.10
	Happo	Mean	0.02	0.02	0.02	0.04	0.08	0.02	N.D.	0.03	N.D.	0.03	0.03	0.02	0.03
		%	100	100	100	100	100	100	100	100	100	100	100	67	96
		Max-2w	0.03	0.03	0.02	0.06	0.12	0.02	N.D.	0.04	0.01	0.03	0.05	0.02	0.12
		Min-2w	N.D.	0.02	0.02	0.02	0.04	0.01	N.D.	0.03	N.D.	0.03	0.02	0.02	N.D.
	Ijira	Mean	0.03	0.05	0.03	0.10	0.10	0.03	0.02	0.06	0.04	0.03	0.04	0.02	0.05
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.03	0.05	0.04	0.14	0.14	0.04	0.02	0.08	0.04	0.04	0.06	0.02	0.14
		Min-2w	0.02	0.04	0.02	0.06	0.07	0.03	0.01	0.04	0.03	0.02	0.02	0.02	0.01
	Okii	Mean	0.41	0.45	0.34	0.30	0.38	0.04	0.04	0.13	0.23	0.19	0.46	0.52	0.29
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.60	0.47	0.37	0.31	0.51	0.08	0.07	0.15	0.28	0.35	0.52	0.53	0.60
		Min-2w	0.21	0.43	0.32	0.29	0.25	N.D.	N.D.	0.10	0.17	0.01	0.39	0.51	N.D.
	Banryu	Mean	0.28	0.37	0.37	0.26	0.28	0.17	0.08	0.05	0.12	0.19	0.24	0.21	0.22
		%	100	100	100	100	100	100	100	100	100	100	52	100	96
		Max-2w	0.35	0.44	0.39	0.34	0.34	0.24	0.08	0.06	0.16	0.25	0.24	0.23	0.44
		Min-2w	0.20	0.30	0.35	0.19	0.21	0.11	0.08	0.04	0.07	0.12	0.24	0.19	0.04
	Yusuhara	Mean	0.09	0.10	0.10	0.13	0.18	0.05	0.03	0.04	0.06	0.07	0.10	0.09	0.09
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.10	0.10	0.10	0.22	0.27	0.05	0.04	0.05	0.06	0.09	0.10	0.11	0.27
		Min-2w	0.08	0.10	0.09	0.03	0.13	0.05	0.02	0.03	0.06	0.05	0.09	0.08	0.02
Hedo	Mean	0.70	0.56	0.76	0.53	0.42	0.29	0.42	0.38	0.48	0.72	0.85	0.88	0.58	
	%	100	97	100	100	100	100	100	100	100	100	100	60	93	
	Max-2w	0.78	0.61	0.93	0.64	0.51	0.35	0.47	0.42	0.75	0.93	0.99	0.88	0.99	
	Min-2w	0.63	0.52	0.59	0.42	0.34	0.24	0.37	0.34	0.21	0.45	0.71	0.88	0.21	
Ogasawara	Mean	0.36	0.48	0.54	0.47	0.28	0.18	0.17	0.32	0.30	0.38	0.32	0.40	0.37	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-2w	0.48	0.58	0.72	0.48	0.36	0.19	0.21	0.43	0.43	0.56	0.38	0.45	0.72	
	Min-2w	0.28	0.39	0.45	0.46	0.18	0.17	0.13	0.21	0.17	0.25	0.27	0.34	0.13	
Tokyo	Mean				0.18	0.21	0.14	0.11	0.19	0.25	0.15	0.10	0.07	0.15	
	%				100	100	100	100	100	100	100	100	100	100	
	Max-2w				0.20	0.22	0.16	0.12	0.21	0.27	0.17	0.10	0.07	0.27	
	Min-2w				0.15	0.20	0.13	0.10	0.16	0.23	0.13	0.09	0.07	0.07	
Malaysia	Tanah Rata	Mean	0.03	0.04	0.17	0.11	0.02	0.03	0.02	0.03	0.03	0.01	0.03	0.02	0.04
		%	100	100	80	100	100	100	100	100	100	100	100	100	98
		Max-w	0.09	0.11	0.29	0.18	0.03	0.08	0.02	0.04	0.04	0.03	0.10	0.04	0.29
		Min-w	N.D.	N.D.	0.01	0.06	0.02	N.D.	0.01	N.D.	0.01	N.D.	N.D.	N.D.	N.D.
	Petaling Jaya	Mean	-	-	-	-	0.10	0.07	0.04	0.07	0.07	0.04	0.13	0.17	0.09
		%	0	0	0	0	100	100	100	100	100	100	100	100	67
		Max-w	-	-	-	-	0.19	0.15	0.06	0.13	0.09	0.05	0.44	0.26	0.44
		Min-w	-	-	-	-	0.04	0.01	0.01	0.02	0.02	0.02	0.01	N.D.	N.D.
	Danum Valley	Mean	0.02	0.02	0.18	0.08	0.01	0.02	0.02	N.D.	0.03	0.02	0.10	0.04	0.04
		%	100	100	50	100	100	100	100	100	100	100	100	100	96
		Max-2w	0.03	0.04	0.18	0.15	0.02	0.03	0.03	0.01	0.03	0.05	0.18	0.05	0.18
		Min-2w	N.D.	N.D.	0.18	0.01	N.D.	0.02	N.D.	N.D.	0.02	N.D.	N.D.	0.04	N.D.
Mongolia	Ulaanbaatar	Mean	0.12	0.18	0.10	0.14	0.34	0.30	0.15	0.19	0.13	-	-	-	0.19
		%	78	100	100	75	100	80	100	100	100	0	0	0	65
		Max-w	0.23	0.22	0.22	0.17	0.53	0.57	0.21	0.28	0.13	-	-	-	0.57
		Min-w	0.04	0.12	0.04	0.08	0.23	0.08	0.10	0.06	0.13	-	-	-	0.04
	Terelj	Mean	0.03	0.05	0.04	0.03	0.06	0.03	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.02
		%	100	100	100	50	100	100	100	100	100	100	100	100	96
		Max-2w	0.04	0.06	0.05	0.03	0.11	0.04	0.01	0.01	0.01	N.D.	N.D.	N.D.	0.11
		Min-2w	0.01	0.03	0.03	0.03	0.01	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

Table 4.19 Particulate matter component: Mg²⁺

Unit : µg/m ³			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Philippines	Metro Manila	Mean	0.20	0.20	0.20	0.15	0.08	0.04	0.08	0.16	0.15	0.24	0.06	-	0.14
		%	100	100	100	100	100	100	100	100	100	100	100	0	92
		Max-w	0.32	0.23	0.29	0.16	0.12	0.06	0.10	0.24	0.18	0.33	0.08	-	0.33
		Min-w	0.04	0.17	0.10	0.13	0.04	0.02	0.05	0.05	0.11	0.19	0.02	-	0.02
	Los Banos	Mean	0.22	0.15	0.27	0.30	0.11	0.02	0.03	0.07	0.11	0.13	0.08	0.07	0.14
		%	100	100	100	100	100	100	100	100	100	100	100	50	96
		Max-w	0.40	0.41	0.48	0.80	0.29	0.04	0.05	0.11	0.25	0.16	0.12	0.15	0.80
		Min-w	N.D.	N.D.	0.08	N.D.	N.D.	N.D.	N.D.	0.03	N.D.	0.08	0.05	N.D.	N.D.
	Mt. Sto. Tomas	Mean	N.D.	0.02	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	0	92
		Max-w	0.01	0.02	N.D.	0.02	N.D.	N.D.	N.D.	0.01	N.D.	N.D.	N.D.	-	0.02
		Min-w	N.D.	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	N.D.
Republic of Korea	Kanghwa	Mean	0.01	0.01	N.D.	0.02	0.01	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01
		%	13	18	13	17	10	3	6	13	13	16	10	13	12
		Max-d	0.02	0.02	0.01	0.04	0.02	0.01	N.D.	N.D.	0.01	N.D.	N.D.	0.01	0.04
		Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Cheju (Kosan)	Mean	0.04	0.01	0.02	0.03	0.03	0.03	0.02	0.04	0.02	0.04	0.17	0.59	0.09
		%	16	14	16	17	13	17	19	16	17	16	17	16	16
		Max-d	0.12	0.02	0.04	0.07	0.05	0.05	0.05	0.06	0.05	0.07	0.83	0.99	0.99
		Min-d	N.D.	N.D.	0.01	N.D.	0.01	0.02	N.D.	0.02	N.D.	0.01	N.D.	N.D.	N.D.
	Imsil	Mean	0.11	0.05	0.08	0.03	0.03	0.01	0.01	N.D.	N.D.	0.01	N.D.	N.D.	0.03
		%	10	18	10	13	16	17	19	16	17	16	17	16	15
		Max-d	0.17	0.08	0.12	0.07	0.06	0.02	0.04	0.02	0.02	0.03	N.D.	N.D.	0.17
		Min-d	0.03	0.03	0.02	N.D.	N.D.	N.D.	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.	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	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-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.
	Listvianka	Mean	0.01	0.02	0.04	0.06	0.04	0.02	0.01	0.02	0.02	0.03	0.04	0.05	0.03
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.02	0.03	0.08	0.11	0.06	0.03	0.02	0.02	0.03	0.03	0.06	0.10	0.11
		Min-w	N.D.	N.D.	N.D.	0.02	0.02	0.02	0.01	N.D.	0.01	0.02	0.01	0.02	N.D.
	Irkutsk	Mean	0.04	0.06	0.08	0.11	0.10	0.19	0.14	0.09	0.11	0.09	0.06	N.D.	0.09
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.09	0.14	0.17	0.28	0.16	0.47	0.16	0.11	0.17	0.11	0.13	N.D.	0.47
		Min-w	0.01	N.D.	0.01	0.03	0.05	0.06	0.12	0.08	N.D.	0.08	N.D.	N.D.	N.D.
	Primorskaya	Mean	0.09	0.11	0.09	0.09	0.09	0.05	0.05	0.07	0.03	0.03	0.10	0.10	0.07
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.09	0.15	0.11	0.14	0.10	0.06	0.05	0.08	0.04	0.06	0.11	0.13	0.15
		Min-2w	0.08	0.07	0.06	0.03	0.08	0.04	0.04	0.05	0.02	N.D.	0.08	0.07	N.D.
Thailand	Bangkok	Mean	0.13	0.08	0.10	0.07	0.07	0.07	0.07	0.11	0.11	0.06	0.07	0.14	0.09
		%	100	100	100	100	100	100	100	71	100	100	100	100	97
		Max-10d	0.14	0.09	0.17	0.12	0.12	0.09	0.09	0.17	0.16	0.12	0.08	0.15	0.17
		Min-10d	0.13	0.06	0.02	0.03	0.02	0.04	0.06	0.05	0.05	0.02	0.07	0.12	0.02
	Patumthani	Mean	0.16	0.16	0.10	0.07	0.08	0.02	0.06	0.03	0.03	0.05	0.09	0.07	0.08
		%	69	100	100	100	100	100	100	155	100	100	100	100	97
		Max-10d	0.16	0.24	0.15	0.09	0.12	0.03	0.08	0.04	0.03	0.09	0.14	0.12	0.24
		Min-10d	0.15	0.02	0.02	0.03	0.03	0.02	0.05	0.02	0.03	0.02	0.05	0.02	0.02
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	-	0.02	-	-	-	N.D.	-	-	0.08	-	0.04
		%	0	0	0	25	0	0	0	42	0	0	52	0	12
		Max-2w	-	-	-	0.02	-	-	-	N.D.	-	-	0.08	-	0.08
		Min-2w	-	-	-	0.02	-	-	-	N.D.	-	-	0.08	-	N.D.
	Chiangmai (Mae Hia)	Mean	0.05	0.07	0.10	0.06	0.09	0.25	0.06	0.02	N.D.	0.03	0.01	0.08	0.07
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-10d	0.09	0.12	0.19	0.09	0.10	0.69	0.10	0.04	N.D.	0.05	0.03	0.11	0.69
		Min-10d	N.D.	0.01	0.04	N.D.	0.07	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.05	N.D.
	Nakhon Ratchasima	Mean	0.08	0.07	0.08	0.03	0.09	0.06	0.06	0.04	0.02	0.03	0.05	0.04	0.06
		%	100	100	100	100	100	100	100	100	100	67	100	68	94
		Max-10d	0.16	0.08	0.11	0.03	0.11	0.08	0.09	0.08	0.04	0.03	0.08	0.04	0.16
		Min-10d	0.04	0.06	0.04	0.02	0.08	0.05	0.02	N.D.	N.D.	0.03	0.04	0.03	N.D.
Viet Nam	Ha Noi	Mean	0.26	0.28	0.55	1.37	0.54	0.16	0.36	0.50	0.29	0.19	0.29	0.48	0.44
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.35	0.40	1.37	1.63	1.13	0.23	0.64	0.65	0.60	0.27	0.43	0.64	1.63
		Min-w	0.20	0.17	0.24	1.24	0.16	0.06	0.11	0.36	0.02	0.06	0.18	0.28	0.02
	Hoa Binh	Mean	0.05	0.28	0.10	0.09	0.10	0.12	0.11	0.07	0.14	0.07	0.24	0.41	0.15
		%	100	100	100	100	100	100	100	100	100	75	100	100	98
		Max-w	0.14	0.39	0.15	0.18	0.18	0.14	0.22	0.10	0.25	0.11	0.28	0.51	0.51
		Min-w	N.D.	0.13	0.06	0.04	0.04	0.10	0.04	0.02	0.07	N.D.	0.20	0.26	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

% : monthly or annual percentages of period of available data

Table 4.20 Particulate matter component: Ca²⁺

Unit : µg/m ³			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
China	Hongwen	Mean					2.92	1.64	1.63	3.45	7.27	1.98	2.56	2.71	2.84
		%					100	80	100	100	100	100	100	100	100
		Max-2w					5.19	2.30	3.48	8.14	21.82	5.80	4.74	4.72	21.82
		Min-2w					0.22	0.95	N.D.	0.78	N.D.	N.D.	0.80	0.16	N.D.
Indonesia	Serpong	Mean	0.28	0.28	0.53	0.13	0.72	0.25	0.19	0.15	0.15	0.08	0.20	0.04	0.26
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.49	0.42	1.25	0.17	1.36	0.26	0.22	0.19	0.22	0.11	0.28	0.06	1.36
		Min-2w	0.08	0.13	0.12	0.10	0.08	0.25	0.17	0.11	0.08	0.05	0.11	0.02	0.02
Japan	Rishiri	Mean	0.07	0.18	0.25	0.11	0.18	0.09	0.08	0.14	0.09	0.24	0.17	0.08	0.14
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.08	0.18	0.31	0.16	0.22	0.13	0.11	0.19	0.13	0.29	0.20	0.09	0.31
		Min-2w	0.05	0.17	0.19	0.07	0.09	0.05	0.04	0.09	0.04	0.19	0.14	0.06	0.04
	Tappi	Mean	0.27	0.67	0.69	0.24	0.30	0.13	0.10	0.13	0.10	0.26	0.38	0.34	0.30
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.36	0.73	0.72	0.30	0.41	0.15	0.12	0.15	0.13	0.43	0.57	0.36	0.73
		Min-2w	0.17	0.61	0.66	0.18	0.17	0.10	0.08	0.11	0.07	0.14	0.19	0.32	0.07
	Sado-seki	Mean	-	0.29	0.19	0.38	0.59	0.10	0.09	0.12	0.12	0.17	0.25	0.27	0.25
		%	0	100	100	100	100	100	100	100	100	100	100	100	92
		Max-2w	-	0.37	0.29	0.59	0.70	0.15	0.09	0.13	0.13	0.21	0.26	0.31	0.70
		Min-2w	-	0.21	0.09	0.17	0.51	0.06	0.09	0.11	0.11	0.15	0.25	0.23	0.06
	Happo	Mean	0.04	0.08	0.09	0.33	0.63	0.05	0.02	0.05	0.03	0.08	0.10	0.07	0.14
		%	100	100	100	100	100	100	100	100	100	100	100	67	96
		Max-2w	0.08	0.11	0.09	0.59	0.90	0.06	0.04	0.05	0.03	0.09	0.13	0.08	0.90
		Min-2w	0.02	0.05	0.09	0.12	0.35	0.04	N.D.	0.04	0.02	0.06	0.07	0.05	N.D.
	Ijira	Mean	0.06	0.13	0.10	0.61	0.41	0.11	0.08	0.13	0.07	0.08	0.10	0.04	0.17
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.08	0.16	0.15	1.05	0.60	0.12	0.10	0.15	0.07	0.10	0.11	0.06	1.05
		Min-2w	0.05	0.10	0.06	0.17	0.30	0.11	0.06	0.11	0.06	0.05	0.10	0.03	0.03
	Oki	Mean	0.23	0.38	0.37	0.67	0.60	0.02	0.03	0.07	0.09	0.12	0.34	0.32	0.28
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.27	0.43	0.52	1.03	0.78	0.05	0.06	0.09	0.11	0.22	0.39	0.41	1.03
		Min-2w	0.19	0.34	0.22	0.31	0.44	N.D.	N.D.	0.05	0.07	N.D.	0.29	0.24	N.D.
	Banryu	Mean	0.22	0.24	0.27	0.75	0.89	0.10	0.09	0.03	0.08	0.15	0.31	0.24	0.30
		%	100	100	100	100	100	100	100	100	100	100	52	100	96
		Max-2w	0.33	0.25	0.34	1.23	1.04	0.12	0.12	0.04	0.12	0.22	0.31	0.31	1.23
		Min-2w	0.12	0.24	0.19	0.26	0.65	0.09	0.07	0.03	0.03	0.08	0.31	0.16	0.03
	Yusuhara	Mean	0.19	0.25	0.26	0.70	0.92	0.11	0.08	0.04	0.03	0.09	0.19	0.21	0.28
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.21	0.31	0.28	1.32	1.39	0.14	0.14	0.04	0.03	0.16	0.23	0.31	1.39
		Min-2w	0.17	0.19	0.24	0.08	0.51	0.07	0.03	0.04	0.03	0.03	0.16	0.11	0.03
	Hedo	Mean	0.56	0.49	0.43	0.69	0.95	0.14	0.24	0.16	0.19	0.33	0.44	0.48	0.43
		%	100	97	100	100	100	100	100	100	100	100	100	60	93
		Max-2w	0.67	0.56	0.50	0.79	1.56	0.16	0.31	0.20	0.29	0.40	0.52	0.48	1.56
		Min-2w	0.46	0.43	0.35	0.55	0.35	0.12	0.17	0.12	0.10	0.18	0.36	0.48	0.10
	Ogasawara	Mean	0.16	0.26	0.35	0.47	0.37	0.08	0.08	0.11	0.10	0.14	0.16	0.21	0.22
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.20	0.36	0.43	0.51	0.66	0.10	0.08	0.15	0.14	0.20	0.18	0.23	0.66
		Min-2w	0.12	0.20	0.27	0.42	0.16	0.07	0.08	0.07	0.05	0.10	0.13	0.20	0.05
	Tokyo	Mean				0.49	0.85	0.57	0.51	0.64	0.46	0.45	0.60	0.53	0.56
		%				100	100	100	100	100	100	100	100	100	100
		Max-2w				0.57	0.88	0.61	0.53	0.69	0.46	0.47	0.67	0.59	0.88
		Min-2w				0.41	0.82	0.54	0.49	0.59	0.45	0.44	0.52	0.48	0.41
Malaysia	Tanah Rata	Mean	0.02	0.10	0.07	0.02	0.10	0.34	0.09	0.11	0.13	0.03	0.04	0.05	0.10
		%	100	100	80	100	100	80	100	100	100	100	100	100	98
		Max-w	0.06	0.25	0.10	0.04	0.19	0.95	0.22	0.28	0.25	0.08	0.10	0.11	0.95
		Min-w	N.D.	0.02	0.05	N.D.	0.02	0.01	0.02	N.D.	0.02	N.D.	N.D.	0.01	N.D.
	Petaling Jaya	Mean	-	-	-	-	0.76	0.91	0.44	0.72	0.82	0.43	0.77	0.57	0.68
		%	0	0	0	0	100	80	100	100	100	100	100	100	65
		Max-w	-	-	-	-	1.06	1.83	0.83	0.99	1.04	0.76	1.13	0.85	1.83
		Min-w	-	-	-	-	0.26	0.12	0.04	0.25	0.34	0.20	0.16	0.08	0.04
	Danum Valley	Mean	N.D.	0.01	0.03	0.03	0.01	0.06	0.06	0.01	0.03	0.02	0.03	0.03	0.03
		%	100	100	50	100	100	100	100	100	100	100	100	100	96
		Max-2w	0.01	0.02	0.03	0.04	0.02	0.11	0.11	0.02	0.03	0.03	0.07	0.04	0.11
		Min-2w	N.D.	N.D.	0.03	0.02	N.D.	N.D.	0.02	N.D.	0.02	N.D.	N.D.	0.02	N.D.
Mongolia	Ulaanbaatar	Mean	1.09	2.97	2.08	3.53	2.98	5.25	5.38	5.64	2.92	-	-	-	3.69
		%	78	100	100	75	100	80	100	100	100	0	0	0	65
		Max-w	1.59	3.50	3.18	5.06	5.45	6.76	6.57	8.76	2.92	-	-	-	8.76
		Min-w	0.82	1.87	0.88	2.18	1.26	2.36	4.63	3.31	2.92	-	-	-	0.82
	Terelj	Mean	0.23	0.54	0.44	0.38	0.32	0.32	0.36	0.38	0.41	0.71	0.55	0.57	0.43
		%	100	100	100	50	100	100	100	100	100	100	100	100	96
		Max-2w	0.26	0.66	0.57	0.38	0.38	0.34	0.40	0.48	0.47	0.71	0.63	0.71	0.71
		Min-2w	0.20	0.42	0.30	0.38	0.22	0.30	0.31	0.27	0.35	0.71	0.46	0.40	0.20

Table 4.20 Particulate matter component: Ca²⁺

Unit : µg/m ³			2007												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Philippines	Metro Manila	Mean	1.33	1.84	2.08	1.90	1.35	1.00	1.04	0.53	0.49	0.66	0.76	-	1.18
		%	100	100	100	100	100	100	100	100	100	100	100	0	92
		Max-w	2.87	2.50	2.99	2.75	1.81	1.31	1.12	0.72	0.73	0.91	0.84	-	2.99
		Min-w	0.15	1.33	1.28	1.33	0.92	0.53	0.93	0.24	0.33	0.08	0.60	-	0.08
	Los Banos	Mean	0.14	0.06	0.55	0.34	0.48	0.13	0.22	0.10	0.09	0.10	0.36	0.12	0.23
		%	100	100	100	100	100	80	100	100	100	100	100	50	96
		Max-w	0.49	0.24	1.73	0.75	1.38	0.25	0.27	0.11	0.22	0.23	0.45	0.24	1.73
		Min-w	N.D.	N.D.	N.D.	N.D.	N.D.	0.09	0.17	0.08	N.D.	0.01	0.30	N.D.	N.D.
	Mt. Sto. Tomas	Mean	0.07	0.06	N.D.	0.01	N.D.	0.05	0.09	0.08	0.08	0.05	0.22	-	0.07
		%	100	100	100	100	100	100	100	100	100	100	100	0	92
		Max-w	0.15	0.10	0.04	0.03	N.D.	0.13	0.17	0.27	0.14	0.09	0.91	-	0.91
		Min-w	N.D.	0.03	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.02	N.D.	N.D.	-	N.D.
Republic of Korea	Kanghwa	Mean	0.03	0.03	N.D.	0.04	0.04	0.07	0.03	0.04	0.06	0.06	0.05	0.12	0.05
		%	13	18	13	17	10	3	6	13	13	16	17	13	13
		Max-d	0.06	0.05	0.01	0.12	0.08	0.07	0.05	0.06	0.07	0.12	0.11	0.14	0.14
		Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	0.07	N.D.	0.02	0.05	0.03	0.03	0.09	N.D.
	Cheju (Kosan)	Mean	0.08	0.03	0.07	0.08	0.06	0.06	0.07	0.07	0.05	0.13	0.23	0.18	0.09
		%	16	14	16	17	13	17	19	16	17	16	17	16	16
		Max-d	0.16	0.07	0.12	0.17	0.10	0.09	0.14	0.08	0.06	0.20	0.41	0.39	0.41
		Min-d	0.02	N.D.	0.04	0.01	0.04	0.04	0.03	0.05	0.02	0.07	0.11	0.08	N.D.
	Imsil	Mean	0.44	0.39	0.38	0.08	0.09	0.21	0.34	0.39	0.04	0.09	0.37	0.71	0.28
		%	10	18	10	13	16	17	19	16	17	16	17	13	15
		Max-d	0.55	0.53	0.55	0.18	0.17	0.36	0.50	0.45	0.07	0.22	0.76	1.94	1.94
		Min-d	0.24	0.29	0.25	N.D.	N.D.	0.10	0.24	0.33	0.02	0.01	0.19	0.03	N.D.
Russia	Mondy	Mean	N.D.	0.05	0.04	0.02	0.01	0.02	0.02	0.01	0.01	0.02	0.05	0.04	0.03
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.02	0.07	0.05	0.03	0.03	0.02	0.02	0.01	0.01	0.03	0.05	0.04	0.07
		Min-2w	N.D.	0.03	0.02	0.01	N.D.	0.02	0.02	0.01	0.01	0.02	0.05	0.04	N.D.
	Listvianka	Mean	0.12	0.11	0.26	0.24	0.34	0.18	0.14	0.16	0.17	0.29	0.31	0.27	0.22
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.21	0.19	0.47	0.51	0.69	0.30	0.19	0.21	0.23	0.33	0.39	0.51	0.69
		Min-w	0.04	0.05	0.04	0.10	0.11	0.11	0.11	0.03	0.11	0.23	0.21	0.18	0.03
	Irkutsk	Mean	0.26	0.41	0.53	0.92	0.79	0.76	0.94	0.66	0.76	0.70	0.42	0.01	0.62
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.42	0.67	0.91	2.08	1.22	1.23	1.04	0.78	1.32	0.84	0.90	0.01	2.08
		Min-w	0.05	N.D.	0.11	0.37	0.32	0.41	0.71	0.56	0.04	0.52	0.03	0.01	N.D.
	Primorskaya	Mean	0.40	0.34	0.54	0.33	0.46	0.38	0.27	0.22	0.20	0.24	0.64	0.75	0.40
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.42	0.35	0.65	0.40	0.56	0.42	0.27	0.27	0.24	0.44	0.68	0.97	0.97
		Min-2w	0.39	0.34	0.42	0.26	0.37	0.35	0.27	0.17	0.16	0.04	0.60	0.52	0.04
Thailand	Bangkok	Mean	2.17	0.58	0.78	0.71	0.84	0.79	0.95	0.95	1.15	0.79	1.01	1.92	1.07
		%	100	100	100	100	100	80	100	71	100	100	100	100	97
		Max-10d	2.84	0.80	1.04	1.32	1.24	1.15	1.16	1.41	1.91	1.76	1.58	1.97	2.84
		Min-10d	1.43	0.36	0.37	0.08	0.37	0.55	0.78	0.49	0.54	0.23	0.07	1.86	0.07
	Patumthani	Mean	2.28	1.46	0.83	0.83	0.73	0.07	1.06	0.27	0.20	0.75	1.98	0.92	0.93
		%	69	100	100	100	100	80	100	155	100	100	100	100	97
		Max-10d	2.85	2.36	1.44	1.05	1.04	0.11	1.23	0.39	0.34	1.14	2.44	1.81	2.85
		Min-10d	1.71	0.51	0.15	0.42	0.15	0.03	0.77	0.19	0.06	0.21	1.38	0.02	0.02
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	-	0.02	-	-	-	0.04	-	-	0.28	-	0.12
		%	0	0	0	25	0	0	0	42	0	0	52	0	12
		Max-2w	-	-	-	0.02	-	-	-	0.04	-	-	0.28	-	0.28
		Min-2w	-	-	-	0.02	-	-	-	0.04	-	-	0.28	-	0.02
	Chiangmai (Mae Hia)	Mean	0.56	0.84	0.69	0.71	1.03	0.38	0.71	0.45	0.20	0.31	0.36	0.64	0.57
		%	100	100	100	100	100	80	100	100	100	100	100	100	100
		Max-10d	0.64	1.19	1.58	1.12	1.98	0.48	0.79	1.08	0.32	0.42	0.49	0.73	1.98
		Min-10d	0.49	0.33	0.19	0.44	0.52	0.27	0.66	0.12	0.02	0.15	0.13	0.57	0.02
	Nakhon Ratchasima	Mean	0.35	0.20	0.23	0.09	0.16	0.25	0.33	0.25	0.18	0.17	0.33	0.15	0.23
		%	100	100	100	100	100	80	100	100	100	67	100	68	94
		Max-10d	0.69	0.25	0.26	0.12	0.31	0.32	0.49	0.37	0.27	0.22	0.42	0.17	0.69
		Min-10d	0.18	0.15	0.18	0.07	0.05	0.20	0.05	0.12	0.09	0.13	0.17	0.13	0.05
Viet Nam	Ha Noi	Mean	2.37	2.53	6.42	19.39	7.13	2.50	9.95	15.90	9.11	3.28	5.12	7.46	7.59
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	2.91	3.36	16.13	21.01	14.69	4.22	17.03	18.72	15.80	4.75	7.52	12.89	21.01
		Min-w	2.10	2.14	2.04	18.08	2.04	0.37	0.80	13.69	3.54	0.97	3.17	3.99	0.37
	Hoa Binh	Mean	1.85	3.26	1.81	0.70	1.10	1.03	0.59	0.97	4.16	2.11	3.42	5.65	2.19
		%	100	100	100	100	100	100	100	100	100	75	100	100	98
		Max-w	2.68	4.67	2.35	1.63	2.24	1.35	0.80	1.57	11.92	2.38	4.11	7.63	11.92
		Min-w	1.20	2.23	0.83	N.D.	0.33	0.54	0.37	0.41	0.69	1.85	2.20	4.36	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

% : monthly or annual percentages of period of available data

Table 4.21 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 4.22 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 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	- 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	- 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](#).

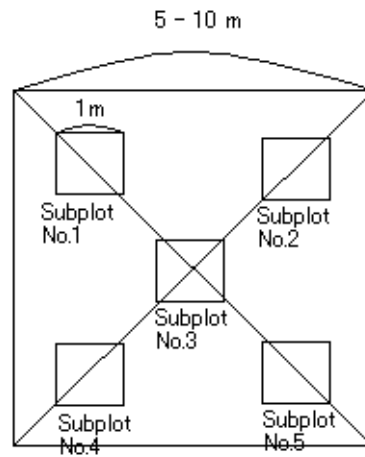


Figure 5.1 Plot for soil sampling

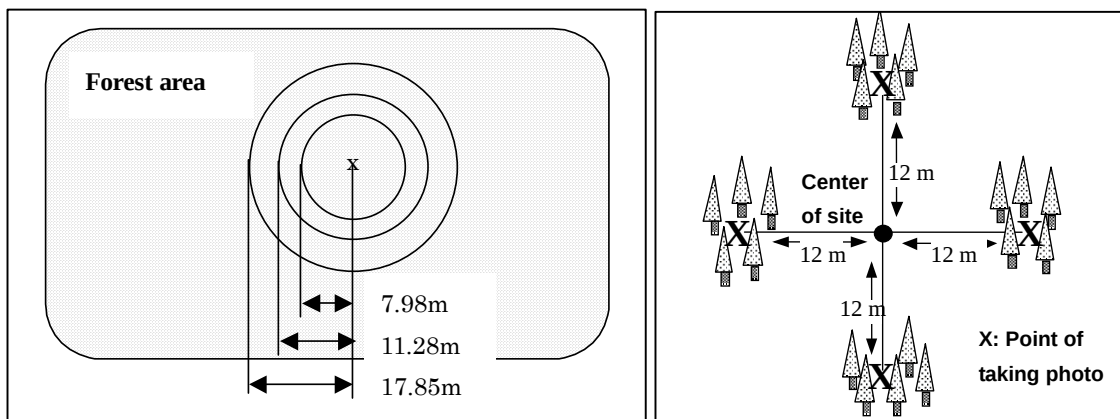


Figure 5.2 Plots for description of trees (Left) and selection of observation trees (Right)

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 modified in the Sub-Manual on Forest Vegetation Monitoring.

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	Metal sampling cylinder, Drying oven,
b) Penetration Resistance (in the fieldwork)	Balance Pocket penetrometer

5.1.3 Monitoring Sites

Forest data and soil data of 4 areas of 3 countries were submitted this year. The second survey on soil was carried out in one country, since the interval of soil and forest vegetation monitoring is every 3–5 years. A new plot was established in one country. Observation of the tree decline was done annually in one country according to suggestion of the Sub-Manual on Forest Vegetation Monitoring (2006). The list of monitoring site and reported items for 2007 was shown in Table 5.4.

Table 5.4 Outline of the Monitoring Sites in 2007

Country	Nearest deposition monitoring site	Site: Name of forests	Soil type	Items ^{*1}
Indonesia	Serpong	Research Forest Station of Center and Development of Forestry Research	Typic Dystrudepts	S
Japan	Banryu	Banryu-2	Cambisols	F
		Iwami “rinku” Factory Park	Acrisols	F
	Ijira	Lake Ijira	Dystric Cambisol	F
		Yamato	Andosols	F
Philippines	Metro Manila	La Mesa Watershed, Barangay Payatas, Quezon City	Not reported	S, F

*1. S, Soil monitoring; F, Forest monitoring.

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) Soil chemical analysis: Bogor

Sampling period: 17-Mar-07

Name of analysis laboratory: Soil Chemistry Laboratory of Centre for Soil and Agroclimate Research and Development at Bogor

Sample No	Location	Soil type	Plot No.	Sub-plot No	Layer	pH		Exchangeable base cations				Ex-acid		ECEC	CEC	Base saturation	Organic	
					analys	H ₂ O	KCl	Ca	Mg	K	Na	Al	H				C	N
					(cm)	(cmol(+) kg ⁻¹)											(g kg ⁻¹)	
1	The Research Forest Station of Center and Development of Forestry Research, at Situgede Village, West Bogor subdistrict	Typic Dystrudepts	I	1	0 - 10	4.20	3.72	0.28	0.20	0.06	0.02	4.78	0.72	6.06	18.1	9.24	19.0	1.50
3				2	0 - 10	4.32	3.70	1.02	0.34	0.09	0.06	4.91	0.82	7.24	22.9	20.9	24.9	1.80
5				3	0 - 10	4.23	3.64	1.08	0.27	0.09	0.04	4.24	0.48	6.20	19.8	23.9	14.0	1.20
7				4	0 - 10	4.28	3.74	1.38	0.20	0.09	0.02	3.94	0.67	6.31	19.3	26.8	14.9	1.10
9				5	0 - 10	4.22	3.73	0.94	0.25	0.06	0.04	4.46	0.61	6.35	21.6	20.3	14.2	1.10
2				1	10 - 20	4.25	3.77	0.34	0.22	0.06	0.04	4.22	0.64	5.52	17.4	12.0	10.1	0.80
4				2	10 - 20	4.36	3.76	0.87	0.30	0.06	0.04	4.68	0.43	6.38	20.2	19.9	9.60	0.80
6				3	10 - 20	4.27	3.74	1.06	0.58	0.06	0.02	3.33	0.46	5.52	18.8	31.2	9.10	0.70
8				4	10 - 20	4.38	3.81	1.34	0.45	0.03	0.04	3.10	0.38	5.34	19.3	34.8	9.70	0.80
10				5	10 - 20	4.29	3.80	1.08	0.38	0.07	0.06	3.59	0.20	5.38	20.2	29.6	10.1	1.00

Note: The reported values were oven-dry basis (105°C); CEC by the Schorenberger's method was also reported; Repeat analysis was not reported.

Table 5.5 b-1) Soil Chemical analysis: La Mesa Dam Watershed

Sampling period: 9-Nov-07

Name of analysis laboratory: Department of Soil Science, UPLE

Name of analysis laboratory: Department of Soil Science, UPLE																	
Sample No.	Location	Soil type	Plot No.	Subplot No.	Layer analyzed (cm)	Moisture content (wt %)	pH		Exchangeable base cations (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	La Mesa Dam, Payatas, Quezon City	1	1	0 - 10	1.1	5.7	4.6	14.48	8.94	0.30	3.95	0.13	0.00	0.13	27.80	99.53	
			2		1.1	6.0	4.6	10.15	6.00	0.22	3.59	0.22	0.00	0.22	20.18	98.91	
			3		1.1	5.9	4.6	9.54	4.98	0.29	2.39	0.21	0.00	0.21	17.41	98.79	
			4		1.1	5.8	4.4	9.88	5.55	0.29	2.87	0.21	0.00	0.21	18.80	98.88	
			5		1.1	5.7	4.3	10.57	4.64	0.32	4.78	0.40	0.05	0.35	20.71	98.07	
1			10 - 20	1.1	4.5	4.2	9.33	5.32	0.23	2.15	0.44	0.11	0.33	17.47	97.48		
2				1.1	6.0	4.5	13.24	5.43	0.39	4.18	0.26	0.00	0.26	23.50	98.89		
3				1.1	5.6	4.2	8.92	4.75	0.25	4.3	0.35	0.05	0.30	18.57	98.12		
4				1.1	5.7	4.3	9.40	7.13	0.25	2.75	0.28	0.00	0.28	19.81	98.59		
5				1.1	6.0	4.7	12.49	4.19	0.34	2.81	0.21	0.00	0.21	20.04	98.95		
3		2	1	0 - 10	1.1	5.6	4.0	12.56	9.62	0.27	4.36	0.73	0.47	0.26	27.54	97.35	
			2		1.1	5.7	4.6	8.10	4.30	0.33	3.11	0.20	0.00	0.20	16.04	98.75	
			3		1.0	5.1	4.0	10.17	6.48	0.28	1.85	0.74	0.36	0.38	19.52	96.21	
			4		1.1	5.6	4.3	11.87	7.02	0.28	2.27	0.35	0.05	0.30	21.79	98.39	
5			1.1		5.5	4.5	9.47	4.98	0.25	3.23	0.19	0.00	0.19	18.12	98.95		
1			10 - 20	1.0	5.6	4.2	8.98	5.86	0.20	2.34	0.31	0.05	0.26	17.69	98.25		
2				1.1	5.6	4.2	8.30	5.32	0.24	1.02	0.34	0.08	0.26	15.22	97.77		
3				1.1	5.2	4.1	11.60	7.58	0.24	2.51	0.42	0.12	0.30	22.35	98.12		
4				1.1	5.6	4.4	11.60	6.45	0.23	2.51	0.18	0.00	0.18	20.97	99.14		
5				1.1	5.7	4.2	10.84	6.90	0.23	2.69	0.27	0.00	0.27	20.93	98.71		

Table 5.5 b-2) Soil Chemical analysis: La Mesa Dam Watershed (repeat analysis)

Sampling period: 9-Nov-07

Name of analysis laboratory: Department of Soil Science, UPLE

Name of analysis laboratory: Department of Soil Science, UPLE																	
Sample No.	Location	Soil type	Plot No.	Subplot No.	Layer analyzed (cm)	Moisture content (wt %)	pH		Exchangeable base cations (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	La Mesa Dam, Payatas, Quezon City	1	1	0 - 10	1.1	5.6	4.3	10.70	7.13	0.31	3.83	0.26	0.00	0.26	22.23	98.83	
			2		1.1	5.6	4.5	10.22	6.34	0.20	2.63	0.33	0.00	0.33	19.72	98.33	
			3		1.1	5.6	4.4	8.30	3.96	0.31	2.99	0.33	0.00	0.33	15.89	97.92	
			4		1.1	5.5	4.3	8.99	5.21	0.27	2.21	0.33	0.00	0.33	17.01	98.06	
			5		1.1	5.4	4.2	9.67	4.19	0.33	5.74	0.37	0.00	0.37	20.30	98.18	
1			10 - 20	1.1	5.4	4.2	8.50	5.77	0.23	2.45	0.43	0.04	0.40	17.38	97.53		
2				1.1	5.6	4.3	11.80	4.98	0.33	3.77	0.33	0.00	0.33	21.21	98.44		
3				1.1	5.4	4.1	8.51	4.53	0.23	3.05	0.43	0.04	0.40	16.75	97.43		
4				1.1	5.5	4.2	8.71	6.11	0.24	3.47	0.33	0.00	0.33	18.86	98.25		
5				1.1	5.8	4.5	12.28	3.96	0.35	3.65	0.25	0.00	0.25	20.49	98.78		
3		2	1	0 - 10	1.1	4.9	3.8	10.50	7.70	0.26	3.23	1.02	0.39	0.63	22.71	95.51	
			2		1.1	5.5	4.4	8.37	4.41	0.31	3.47	0.29	0.00	0.29	16.85	98.28	
			3		1.0	5.0	3.8	11.10	5.45	0.26	2.55	0.75	0.25	0.50	20.11	96.27	
			4		1.1	5.3	4.1	11.80	7.81	0.27	3.11	0.50	0.04	0.46	23.49	97.87	
			5		1.1	5.4	4.3	8.10	4.41	0.26	3.89	0.33	0.00	0.33	16.99	98.06	
4			1	10 - 20	1.0	5.3	4.1	8.05	6.28	0.19	2.39	0.39	0.02	0.37	17.30	97.75	
			2		1.1	5.2	3.9	8.1	5.09	0.26	1.97	0.49	0.09	0.40	15.91	96.92	
			3		1.1	5.3	4.0	9.47	7.81	0.24	1.85	0.54	0.18	0.36	19.91	97.29	
			4		1.1	5.6	4.2	9.74	5.77	0.24	3.17	0.33	0.00	0.33	19.25	98.29	
			5		1.1	5.3	4.0	10.09	6.22	0.24	3.29	0.37	0.00	0.37	20.21	98.17	

Table 5.6 a-1) Results of observation of tree decline: Lake Banryu-1

Name of Plot: Banryu-2

Nearest deposition monitoring site: Banryu

Date: 2 October 2007

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 lucida</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)	13.5	14.3	13.4	12.1	12.4	13.5	11.7	10.7	13.6	14.3	12.2
DBH (cm)	21.5	24.8	11.5	23.5	15.7	19.9	11.2	14.3	23.4	19.5	15.5
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 5.6 a-2) Results of observation of tree decline: Lake Banryu-2

Name of Plot: Iwami "rinku" Factory Park

Nearest deposition monitoring site: Banryu

Date: 2 October 2007

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 micrococca</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>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)	13.7	18.0	21.4	18.5	18.1	18.4	18.4	17.8	17.8		13.6	15.9	16.3	17.2	17.5	13.5	15.0
DBH (cm)	22.7	27.6	27.9	28.0	27.4	25.2	27.9	33.4	30.8		22.7	39.8	20.5	22.4	27.0	34.4	23.3
Vitality of tree												3				2	
Form of tree																	
Branch growth																	
Dieback of stem												1				2	
Defoliation of crown												3				2	
Deformation of leaves																	
Size of leaves																	
Discoloration of leaves												2				1	
Injury of leaves												2				1	
Damage class ^{*1}												3				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 a-3) Results of observation of tree decline: Lake Ijira

Name of Plot: Lake Ijira
Nearest deposition monitoring site: Ijira
Date: 16 November 2007

Date: 10 November 2007

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>	
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										2										2		
Defoliation of crown					1															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.

Table 5.6 a-4) Results of observation of tree decline: Lake Ijira-2

Name of Plot: Yamato
Nearest deposition monitoring site: Ijira
Date: 19 September 2007

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						1
Form of tree				1									1	1						1
Branch growth																				
Dieback of stem				1							2									
Defoliation of crown											1			1						
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 and 15, effects of previous suppressions by other trees; No.31, curved shape (effects of heavy snow); No. 36, broken stem (effects of heavy snow); The size of trees was measured in 2006.

Table 5.6 b) Results of observation of tree decline: La Mesa Watershed

Name of Plot: La Mesa Watershed

Nearest deposition monitoring site: Metro Manila station

Date: 9 November 2007

INDIVIDUAL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
EXPOSURE	East					West					North					South				
	<i>Acacia mangium</i>	<i>Acacia mangium</i>	<i>Pterocarpus indicus forma echinatus</i>	<i>Acacia mangium</i>		<i>Pterocarpus indicus forma echinatus</i>	<i>Gmelina arborea</i>	<i>Gmelina arborea</i>	<i>Chrysophyllum cainito</i>		<i>Senna siamea</i>	<i>Leucaena leucocephala</i>	<i>Senna siamea</i>			<i>Neolamarckia cadamba</i>	<i>Neolamarckia cadamba</i>	<i>Senna siamea</i>	<i>Neolamarckia cadamba</i>	
Relative height																				
Tree Height																				
DBH (cm)																				
Vitality of tree		1									1		1							
Form of tree											1									
Branch growth																				
Dieback of stem																				
Defoliation of crown			1																	
Density of foliage																				
Deformation of leaves																				
Size of leaves																				
Discoloration of leaves			1																	
Injury of leaves			1																	
Damage class ^{*1}			1																	

Estimate cause of decline: presence of termites and trees leaning

Note: *1.Damage class was decided based on combination of defoliation and discoloration classes

Table 5.7 Description of trees: La Mesa Watershed

Name of Plot: La Mesa Watershed

Date: 9 November 2007

Suevey area 1: radius 7.98 m

(Height > 1.3 m)

(Survey area 1: continued)			
NO.	Species Name	DBH (cm)	Height (m)
1	<i>Acacia mangium</i>	31	23.42
2	<i>Harpullia arborea</i>	1.55	2.05
3	<i>Antidesma bunius</i>	4.19	8.8
4	<i>Antidesma bunius</i>	3.08	4.92
5	<i>Antidesma bunius</i>	1.56	2.63
6	<i>Antidesma bunius</i>	2.37	3.94
7	<i>Sandoricum koetjape</i>	9.87	10.75
8	<i>Ardisia squamulosa</i>	2.34	1.96
9	<i>Swietenia macrophylla</i>	1.68	1.49
10	<i>Antidesma bunius</i>	1.92	2.67
11	<i>Pterocarpus indicus forma echinatus</i>	24	34.03
12	<i>Swietenia macrophylla</i>	1.47	2.05
13	<i>Cratogeomys formosum</i>	1.56	1.94
14	<i>Swietenia macrophylla</i>	7.25	11.03
15	<i>Swietenia macrophylla</i>	1.66	1.94
16	<i>Swietenia macrophylla</i>	2.1	3.09
17	<i>Swietenia macrophylla</i>	1.33	2.18
18	<i>Swietenia macrophylla</i>	1.34	1.74
19	<i>Syzgium cumini</i>	3.37	3.73
20	<i>Swietenia macrophylla</i>	2.01	2.94
21	<i>Harpullia arborea</i>	1.47	2.68
22	<i>Swietenia macrophylla</i>	1.55	1.63
23	<i>Swietenia macrophylla</i>	2.76	3.8
24	<i>Antidesma pleuricum</i>	1.68	2.85
25	<i>Swietenia macrophylla</i>	1.57	1.52
26	<i>Sandoricum koetjape</i>	2.99	3.42
27	<i>Gmelina arborea</i>	37	18.98
28	<i>Swietenia macrophylla</i>	1.9	1.63
29	<i>Swietenia macrophylla</i>	1.64	1.94
30	<i>Swietenia macrophylla</i>	1.74	1.42
31	<i>Swietenia macrophylla</i>	3.18	3.45
32	<i>Swietenia macrophylla</i>	2.94	3.79
33	<i>Swietenia macrophylla</i>	2.15	2.23
34	<i>Harpullia arborea</i>	1.47	2.27
35	<i>Pterocarpus indicus forma echinatus</i>	10.5	12.65
36	<i>Swietenia macrophylla</i>	4.94	6.92
37	<i>Sandoricum koetjape</i>	1.13	2.02
38	<i>Ardisia squamulosa</i>	1.73	2.68
39	<i>Ficus nota</i>	0.78	2.08
40	<i>Sandoricum koetjape</i>	1	1.79
41	<i>Flacourtia jangomas</i>	1.57	3.15
42	<i>Swietenia macrophylla</i>	1.36	1.83
43	<i>Bixa orellana</i>	0.86	1.61
44	<i>Bixa orellana</i>	1.13	1.93
45	<i>Swietenia macrophylla</i>	1.83	1.4
46	<i>Harpullian arborea</i>	1	1.77
47	<i>Antidesma pleuricum</i>	1.26	1.95
48	<i>Acacia auriculiformis</i>	32	20.56
49	<i>Swietenia macrophylla</i>	2.56	2.91
50	<i>Swietenia macrophylla</i>	1.53	2.13
51	<i>Ardisia squamulosa</i>	1.5	2.24
52	<i>Swietenia macrophylla</i>	1.73	2.31
53	<i>Swietenia macrophylla</i>	1.78	2.03
54	<i>Sandoricum koetjape</i>	1	1.66
55	<i>Harpullia arborea</i>	1.98	2.67
56	<i>Sandoricum koetjape</i>	22	17.57
57	<i>Swietenia macrophylla</i>	1.18	1.12
58	<i>Swietenia macrophylla</i>	1.2	1.69
59	<i>Swietenia macrophylla</i>	1.61	2.13
60	<i>Swietenia macrophylla</i>	1.5	2.02
61	<i>Pterocarpus indicus forma echinatus</i>	32.5	18.57
62	(no entry)		
63	<i>Harpullia arborea</i>	1.25	2.32
64	<i>Harpullia arborea</i>	1.1	1.67
65	<i>Harpullia arborea</i>	1.2	1.86
66	<i>Swietenia macrophylla</i>	1.2	2.09
67	<i>Swietenia macrophylla</i>	1.04	1.49
68	<i>Swietenia macrophylla</i>	1.65	2.12
69	<i>Swietenia macrophylla</i>	1.8	2.29
70	<i>Swietenia macrophylla</i>	1.19	1.27

Survey area 2: radius 11.28 m

(DBH > 4 cm)

NO.	Species Name	DBH (cm)	Height (m)
115	<i>Sandoricum koetjape</i>	11.5	11.33
116	<i>Antidesma bunius</i>	10.3	3.33
117	<i>Swietenia macrophylla</i>	4.5	8
118	<i>Pterocarpus indicus forma echinatus</i>	75.1	27.29
119	<i>Ficus nota</i>	4.1	2.9
120	<i>Swietenia macrophylla</i>	8.1	3.77
121	<i>Chrysophyllum cainito</i>	4.2	3
122	<i>Leucaena leucocephala</i>	4.4	6.3
123	<i>Swietenia macrophylla</i>	3.5	2.95
124	<i>Senna siamea</i>	20.1	110.25
125	<i>Senna siamea</i>	18.1	6.63
126	<i>Pterocarpus indicus forma echinatus</i>	6.9	1.86
127	<i>Artocarpus heterophyllus</i>	5.8	6.66
128	<i>Harpullia arborea</i>	4.3	3.75
129	<i>Harpullia arborea</i>	6.3	3.59
130	<i>Chrysophyllum cainito</i>	17.9	13.25
131	<i>Gmelina arborea</i>	6.9	6.22
132	<i>Harpullia arborea</i>	3.5	3
133	<i>Syzgium samarangense</i>	4.5	4
134	<i>Antidesma bunius</i>	4.6	4
135	<i>Harpullia arborea</i>	5.7	4.7
136	<i>Flacourtia jangomas</i>	7.5	6
137	<i>Flacourtia jangomas</i>	5.9	6.37
138	<i>Flacourtia jangomas</i>	3.6	4
139	<i>Sandoricum koetjape</i>	7.4	8.46
140	<i>Sandoricum koetjape</i>	6.9	6.04
141	<i>Pterocarpus indicus forma echinatus</i>	37.6	23.55
142	<i>Sandoricum koetjape</i>	6.5	6.34
143	<i>Sandoricum koetjape</i>	5.5	5.36
144	<i>Sandoricum koetjape</i>	4.3	3.78
145	<i>Sandoricum koetjape</i>	4.3	4.2
146	<i>Sandoricum koetjape</i>	4.7	4.2
147	<i>Sandoricum koetjape</i>	7.9	6.14
148	<i>Sandoricum koetjape</i>	3.9	3
149	<i>Senna siamea</i>	16.1	13.19
150	<i>Senna siamea</i>	4.9	5.4
151	<i>Sandoricum koetjape</i>	8.9	5.58

Note: Trees within the survey area 1 were omitted.

Survey area 3: radius 17.85 m

(DBH > 18 cm)

NO.	Species Name	DBH (cm)	Height (m)
152	<i>Neolamarckia cadamba</i>	20.9	9.95
153	<i>Neolamarckia cadamba</i>	39.8	12.02
154	<i>Pterocarpus indicus forma echinatus</i>	24.5	11.82
155	<i>Chrysophyllum cainito</i>	21.1	13.85
156	<i>Gmelina arborea</i>	64.6	21.21
157	<i>Senna siamea</i>	14.6	10.98
158	<i>Senna siamea</i>	20.9	5.78
159	<i>Senna siamea</i>	13.5	9.14
160	<i>Senna siamea</i>	25	18.9
161	<i>Pterocarpus indicus forma echinatus</i>	41	20.09
162	<i>Acacia mangium</i>	37.5	20.93
163	<i>Acacia mangium</i>	30	22.24
164	<i>Acacia mangium</i>	33	22.73
165	<i>Pterocarpus indicus forma echinatus</i>	18.5	15.17
166	<i>Pterocarpus indicus forma echinatus</i>	27	17.89

Note: Trees within the survey area 2 were omitted.

Table 5.8 Understory vegetation survey: La Mesa Watershed

Name of Plot: La Mesa Watershed

Date: 9 November 2007

Number of species: 17

	Species Name	Abundance
1	<i>Swietenia macrophylla</i>	4
2	<i>Ardisia squamulosa</i>	+
3	<i>Harpullia arborea</i>	+
4	<i>Flemingia strobilifera</i>	+
5	<i>Swietenia macrophylla</i>	2
6	<i>Sandoricum koetjape</i>	+
7	<i>Alstonia scholaris</i>	+
8	<i>Calamus spp</i>	1
9	<i>Harpullia arborea</i>	1
10	<i>Swietenia macrophylla</i>	2
11	<i>Calamus spp</i>	1
12	<i>Flemingia strobilifera</i>	+
13	<i>Sandoricum koetjape</i>	1
14	<i>Swietenia macrophylla</i>	1
15	<i>Harpullia arborea</i>	+
16	<i>Rattan</i>	+
17	<i>Ficus pseudopalma</i>	+
18	<i>Ardisia squamulosa</i>	+

Figure 5.3 a-1) Japan: Banryu2



North



South



West

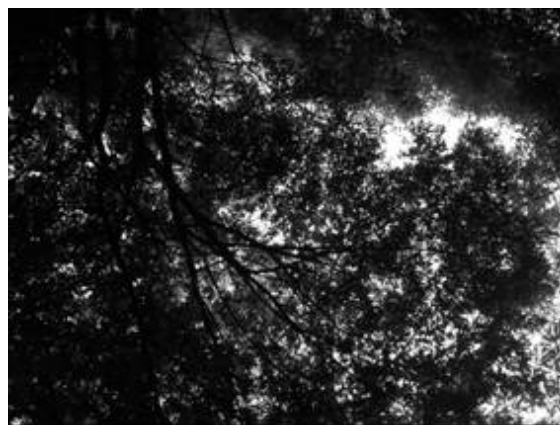


East

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

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.

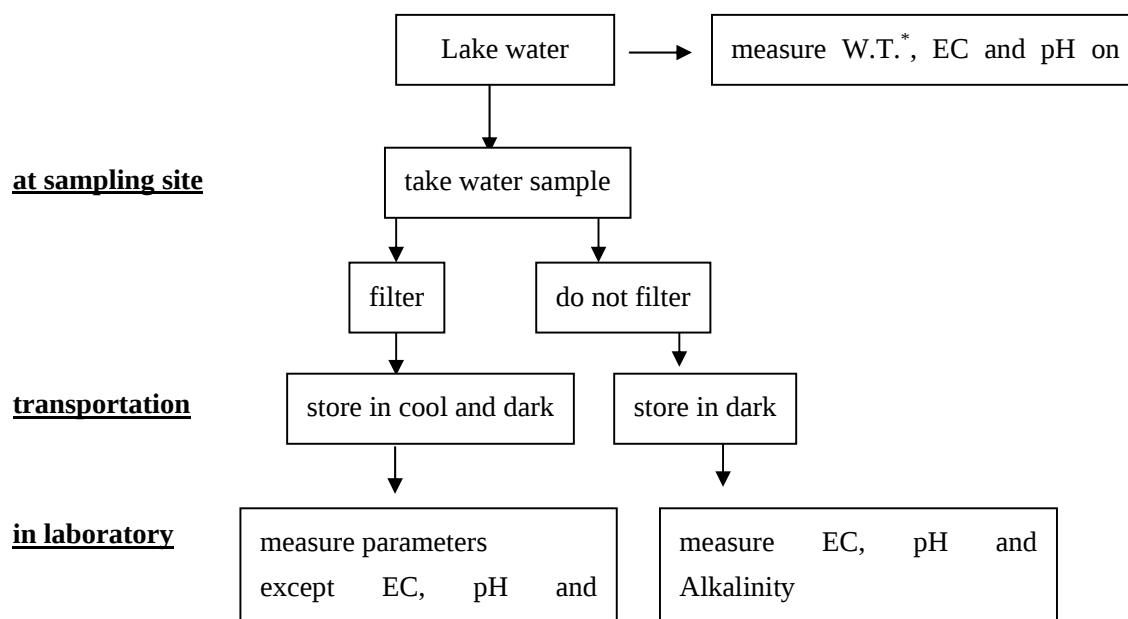
The participating countries of EANET are expected to carry out the monitoring of water temperature, pH, electric conductivity (EC), alkalinity and concentration of SO_4^{2-} , NO_3^- , Cl^- , NH_4^+ , Na^+ , K^+ , Ca^{2+} , and Mg^{2+} of targeted lakes/rivers at least four times a year (seasonally), 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 10 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 Tembaling River in Malaysia is added in this data report.

Table 6.2 Outline of Inland Aquatic Environment Monitoring

Country	Name of Lake	Nearest deposition monitoring	Parameter	Interval
China	Jinyunshan Lake (Chongqing)	Rural	Water quality of Jinyunshan lake	4times/yr.
	Xiaoping Dam (Xiamen)	Remote	Water quality of Xiaoping Dam	4times/yr.
	Jiwozi River (Xi'an)	Remote	Water quality of Jiwozi River	4times/yr.
	Zhuxiandong Stream (Zhunai)	Urban	Water quality of Zhuxiandong Stream	4times/yr.
Indonesia	Patenggang Lake	Rural	Water quality of Petenggang Lake	3times/yr.
Japan	Ijira Lake	Rural/Ecolog.	Water quality of Ijira Lake	4times/yr.
	Banryu Lake	Urban/Ecolog.	Water quality of Banryu Lake	4times/yr.
Malaysia	Semenyih Dam	Urban	Water quality of Semenyih Dam	7times/yr.
	Tembaling River	Remote	Water quality of Tembaling River	4times/yr
Mongolia	Terelj River	Rural	Water quality of Terelj River	7times/yr.
Philippines	Pandin Lake (Los Banos)	Rural	Water quality of Pandin Lake	4times/yr.
	Ambulalakao Lake	Remote	Water quality of Ambulalakao Lake	
Russia	Pereemnaya River (Listvyanka)	Rural	Water quality of Pereemnaya River	4times/yr.
	Komarovka River (Primorskaya)	Rural	Water quality of Komarovka River	5times/yr

Thailand	Vachiralongkorn Dam	Remote	Water quality of Vachiralongkorn Dam	4times/yr.
Viet Nam	Hoa Binh Reservoir	Rural	Water quality of Hoa Binh Reservoir	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 6.5(1) to (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, Danum Valley in Malaysia, 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, Semenyih Dam and Danum Valley in Malaysia and Terelj River in Mongolia 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 2007 are shown in Table 6.5(1) to (17).

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	9,990m ²
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 (flows into)	-

- : 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	264,000m 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

Table 6.3(5) Properties of lakes or streams

Lake Name: Patenggang Lake

Country	Indonesia
Location	Bandung
Altitude	-
Origin	Natural lake
Area and shape	60 ha
Shore line length	-
Lake hydrologic type	-
Lake trophic type	-
Water depth	-
Water volume	$4.98 \times 10^6 \text{ m}^3$
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 (flows into)	-

- : no information

*1: EMC(Serpong)2007

*2: BMG(Jakarta)2007

Table 6.3(6) 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	1,608mm/year (2007)*1
Solar radiation	Daylight time Ave.177hr/month *1
Wind speed	2.0-3.1 (Ave. 2.5) 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 (flows into)	Ijira River, Takabora River

*1 Gifu pref. Meteorological observatory (2007)

Table 6.3(7) 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	1.5 m
Precipitation	1,441mm/year *1
Solar radiation	Daylight time Ave.365hr/month*1
Wind speed	2.1-3.4(Ave. 2.9) m/s*1
Wind direction	S *1
Residence time of water	222days(2004)
Lake utilization	Irrigation
Watershed area	0.73 km ²
River (flows into)	none

- : no information

*1 Lake Banryu national acid rain monitoring station (2007)

Table 6.3(8) 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 (flows into)	-

- : no information

Table 6.3(9) Properties of lakes or streams

Lake Name: Tembaling River

Country	Malaysia
Location	Danum Valley, Sabah
Latitude	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	-
Lake (flows into)	-

- : no information

Table 6.3(10) 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(11) 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 (flows into)	-

- : no information

Table 6.3(12) 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 (flows into)	-

- : no information

Table 6.3(13) 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(14) 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 Volume	0.14m ³ /sec
Watershed area	About 1490kn 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; dominant-2.2) m/s(2005)
Wind direction	E, NE
Lake (flows into)	River Razdolnaya, Amurskiy Bay

- : no information

Table 6.3(15) 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 (Ave. 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 (flows into)	

- : no information

Table 6.3(16) 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 (flows into)	Da River

- : no information

(*)The second values are in affected area of reservoir.

Appendix

Meteorological Statistics at the Monitoring Sites

Meteorological Statistics : Phnom Penh
2007

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	26.6	26.9	28.7	30.0	28.8	28.9	28.0	28.0	27.9	27.2	25.9	26.7
	max.daily mean	34.4	35.1	36.8	38.5	36.8	36.2	34.7	35.4	34.6	33.0	33.5	33.4
	min.daily mean	18.4	18.0	22.0	24.0	25.0	23.3	23.0	22.9	24.5	22.5	17.5	18.4
Relative humidity (%)	monthly mean	67	70	74	72	79	80	79	80	83	82	76	70
	max.daily mean	76	77	88	80	90	92	86	88	95	92	86	89
	min.daily mean	52	52	67	66	70	70	66	72	76	71	62	60
Mean wind speed (m/s)		3.0	-	-	-	-	-	-	-	-	-	-	-
Most frequent wind direction (bearings)		N	SE	N	SE	SW	W	W	W	SW	N	N	N
Precipitation amount (mm/month)		0	0	33	44	192	258	136	263	159	211	71	0
Sunshine duration (hours/month)		236	262	256	229	227	214	175	173	186	172	212	271
Solar radiation (MJ/m ² /month)		-	-	-	-	-	-	-	-	-	-	-	-

Meteorological Statistics : Chongqing
2007

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	8.0	12.8	15.1	18.3	24.6	24.4	27.1	29.8	24.1	19.4	14.4	10.3
	max.daily mean	10.5	16.8	19.0	22.8	30.7	28.5	31.3	35.3	28.6	22.0	17.3	12.1
	min.daily mean	6.2	10.2	12.4	15.1	20.4	21.6	24.4	25.8	21.0	17.4	12.5	9.2
Relative humidity (%)	monthly mean	84	80	76	79	69	84	85	72	81	87	89	89
	max.daily mean	97	95	99	95	91	100	100	90	99	100	100	100
	min.daily mean	68	61	51	54	52	69	69	58	60	59	73	68
Mean wind speed (m/s)		1.1	1.3	1.5	1.5	1.7	1.4	1.5	1.5	1.3	0.9	1.2	1.2
Most frequent wind direction (bearings)		NW	NW	NW	NNW	WN	WN	NW	NW	NNW	NW	NW	NW
Precipitation amount (mm/month)		19	32	39	120	93	220	553	75	149	81	34	26
Sunshine duration (hours/month)		13	37	67	97	134	60	67	178	123	49	26	6
Solar radiation (MJ/m ² /month)		95	176	236	287	422	291	337	513	336	164	134	70

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Meteorological Statistics : Serpong
2007

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	23	21	22	21	23	23	23	23	23	23	22	21
	max.daily mean	33	30	31	31	32	31	31	32	34	33	32	31
	min.daily mean	16	17	17	18	17	16	15	15	14	15	17	17
Relative humidity (%)	monthly mean	81	86	82	82	84	84	82	80	78	83	78	84
	max.daily mean	94	94	94	94	94	100	94	100	100	100	94	94
	min.daily mean	40	47	51	40	47	50	50	35	30	64	33	44
Mean wind speed (m/s)		0.8	0.8	0.9	1.0	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9
Most frequent wind direction (bearings)		WSW	SW	WSW	SSW	SSE	SSW	WSW	SSW	SW	SW	WSW	SW
Precipitation amount (mm/month)		279	430	162	308	44	219	56	111	45	165	323	544
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		-	-	-	-	-	-	-	-	-	-	-	-

Meteorological Statistics : Rishiri
2007

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	-4.1	-3.3	-0.8	3.3	8.5	12.4	-	-	14.5	10.5	2.6	-2.1
	max.daily mean	3.3	3.1	3.8	8.2	13.9	16.9	0.0	0.0	16.1	17.1	9.9	1.6
	min.daily mean	-8.6	-7.6	-5.6	0.0	5.7	9.9	0.0	0.0	11.7	5.1	-5.8	-6.5
Relative humidity (%)	monthly mean	70	70	72	72	80	84	83	89	78	71	65	70
	max.daily mean	86	87	92	93	96	99	98	100	93	87	87	92
	min.daily mean	59	51	51	57	40	34	64	71	59	48	52	54
Mean wind speed (m/s)		4.0	4.3	4.0	3.1	3.7	2.0	2.4	2.5	3.7	3.9	5.3	4.2
Most frequent wind direction (bearings)		NW	NW	W	E	ENE	W	E	WN	E	NE	W	NW
Precipitation amount (mm/month)		22	41	47	28	150	31	44	175	199	21	66	37
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		151	216	353	535	435	461	566	356	373	205	131	82

Meteorological Statistics : Tappi
2007

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	1.4	2.0	2.5	7.3	11.9	17.2	18.3	23.6	20.4	14.4	7.0	2.3
	max.daily mean	5.0	7.1	7.6	12.0	14.9	20.4	22.6	29.0	24.6	19.2	12.2	7.6
	min.daily mean	-1.4	-1.9	-3.6	3.2	8.5	12.7	14.7	20.0	16.4	10.7	-1.7	-1.3
Relative humidity (%)	monthly mean	66	63	67	67	79	82	82	77	75	63	64	66
	max.daily mean	89	77	85	89	94	94	93	94	91	77	87	80
	min.daily mean	53	52	50	47	62	61	61	61	52	49	49	54
Mean wind speed (m/s)		8.7	8.6	8.2	6.0	5.5	4.3	5.5	4.6	5.5	6.0	9.1	8.3
Most frequent wind direction (bearings)		WSW	WSW	WSW	WSW	SW	WSW	NE	SW	WSW	WSW	WSW	WSW
Precipitation amount (mm/month)		73	21	45	107	81	51	15	193	215	61	102	47
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		112	197	307	484	469	579	567	485	351	316	141	88

Meteorological Statistics : Sado-seki
2007

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	4.9	4.5	5.4	9.9	14.9	19.5	21.4	25.7	23.2	16.3	10.0	6.1
	max.daily mean	7.7	9.6	13.3	17.5	19.8	23.1	24.3	30.2	28.5	21.0	15.0	11.2
	min.daily mean	1.7	0.5	-0.5	4.6	10.1	13.6	17.8	20.4	17.4	13.1	2.6	1.4
Relative humidity (%)	monthly mean	63	64	65	63	71	77	81	72	72	65	65	68
	max.daily mean	85	85	90	91	94	93	92	89	86	83	80	86
	min.daily mean	52	47	49	29	45	45	63	48	57	42	50	48
Mean wind speed (m/s)		6.0	7.3	7.7	5.3	5.3	2.9	3.1	3.7	4.4	5.1	6.6	7.2
Most frequent wind direction (bearings)		W	W	W	WSW	SW	WSW	WSW	SW	WSW	W	W	W
Precipitation amount (mm/month)		44	31	95	91	67	172	92	201	63	104	53	129
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		107	218	307	444	489	556	477	575	431	316	192	105

Meteorological Statistics : Happo
2007

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	-6.4	-4.9	-4.1	0.4	7.4	11.9	14.5	17.1	14.6	6.3	0.0	-4.5
	max.daily mean	-2.5	3.4	5.9	7.0	12.5	15.3	16.9	20.0	19.0	11.1	5.8	0.0
	min.daily mean	-10.4	-12.5	-11.8	-6.4	1.3	7.0	12.3	13.0	7.2	1.4	-9.2	-11.1
Relative humidity (%)	monthly mean	71	66	64	63	71	80	88	82	83	79	71	77
	max.daily mean	93	92	89	81	91	96	96	95	95	95	95	93
	min.daily mean	33	17	9	32	39	32	56	69	65	38	18	21
Mean wind speed (m/s)		4.0	4.9	6.1	4.2	3.0	2.0	1.8	2.2	2.3	2.0	2.9	4.8
Most frequent wind direction (bearings)		NW	NW	NW	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	NW
Precipitation amount (mm/month)		96	117	200	128	113	330	255	252	177	244	151	218
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		302	383	484	527	294	452	337	445	347	284	265	227

Meteorological Statistics : Ijira
2007

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	3.3	4.6	6.1	11.1	15.8	19.8	22.2	25.2	22.5	15.5	9.4	4.8
	max.daily mean	6.5	8.8	13.3	15.6	19.9	22.8	25.1	29.3	25.9	19.7	14.1	8.6
	min.daily mean	0.2	-0.4	0.6	3.3	12.8	15.3	19.0	21.4	17.2	10.8	3.7	-0.1
Relative humidity (%)	monthly mean	81	78	73	67	75	84	89	83	89	86	87	91
	max.daily mean	98	96	97	97	97	97	97	96	96	97	97	97
	min.daily mean	53	57	47	46	53	67	74	64	75	71	68	77
Mean wind speed (m/s)		0.6	0.7	0.8	0.9	0.8	0.5	0.4	0.5	0.4	0.4	0.4	0.4
Most frequent wind direction (bearings)		Calm	W	W	W	W	Calm	Calm	Calm	Calm	Calm	Calm	Calm
Precipitation amount (mm/month)		65	145	187	35	262	319	553	153	249	97	16	155
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		227	290	390	460	538	439	356	438	305	299	200	163

Meteorological Statistics : Oki
2007

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	6.2	7.3	8.1	-	16.7	20.4	22.7	27.8	23.6	17.2	12.2	8.6
	max.daily mean	8.8	11.7	14.7	-	20.5	24.5	27.0	32.5	27.9	22.2	16.0	11.9
	min.daily mean	4.5	2.9	2.3	-	13.0	14.7	20.6	22.2	18.3	13.0	7.5	1.5
Relative humidity (%)	monthly mean	62	59	58	-	63	72	78	67	70	62	57	58
	max.daily mean	84	82	77	-	82	88	88	83	81	84	68	78
	min.daily mean	49	47	39	-	43	52	62	51	53	47	45	41
Mean wind speed (m/s)		4.0	4.3	4.3	-	4.3	3.1	2.7	3.1	3.5	3.6	3.9	4.2
Most frequent wind direction (bearings)		N	N	S	-	S	S	NNE	S	NNE	NNE	N	WSW
Precipitation amount (mm/month)		76	39	22	-	70	10	154	247	45	67	27	81
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		172	274	363	-	637	554	407	596	422	349	245	158

Meteorological Statistics : Banryu
2007

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	5.5	7.5	8.6	12.5	17.8	21.2	23.3	27.1	24.1	17.8	11.7	8.2
	max.daily mean	8.4	11.9	17.0	19.3	22.2	26.2	26.7	29.8	27.9	22.7	15.1	12.5
	min.daily mean	2.3	1.5	3.0	7.8	13.7	16.2	20.2	24.1	20.1	12.3	7.1	3.0
Relative humidity (%)	monthly mean	71	70	66	66	68	80	86	75	81	76	74	71
	max.daily mean	91	90	81	84	92	93	94	92	90	88	86	96
	min.daily mean	52	49	50	46	42	66	73	56	65	45	61	56
Mean wind speed (m/s)		3.0	3.4	3.4	3.1	3.0	2.4	2.1	2.3	2.4	2.9	3.0	3.2
Most frequent wind direction (bearings)		S	S	S	S	S	S	S	SSE	S	S	S	S
Precipitation amount (mm/month)		77	63	64	44	104	90	256	178	112	117	46	127
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		184	276	420	548	629	472	430	650	450	417	255	162

Meteorological Statistics : Yusuhara
2007

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	2.5	4.7	5.9	9.8	14.9	18.2	21.4	23.1	21.2	15.5	8.9	4.2
	max.daily mean	6.9	8.9	13.1	14.6	20.4	23.3	25.1	25.8	23.2	20.6	13.1	9.5
	min.daily mean	-1.6	-3.5	-2.6	1.7	10.6	13.7	18.2	21.0	18.4	8.8	3.5	-3.2
Relative humidity (%)	monthly mean	77	77	68	67	69	86	88	86	90	82	77	80
	max.daily mean	100	99	97	97	100	100	100	98	100	100	99	100
	min.daily mean	55	47	33	22	34	66	64	73	66	60	60	59
Mean wind speed (m/s)		2.5	2.5	2.5	2.1	2.3	1.4	1.9	1.5	1.3	1.7	2.3	2.7
Most frequent wind direction (bearings)		NNW	NNW	N	NNW	NNW	NNW	N	SSE	SSE	NNW	NNW	N
Precipitation amount (mm/month)		33	115	140	86	194	130	838	244	398	94	29	140
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		295	350	480	548	627	499	477	573	429	367	330	235

Meteorological Statistics : Hedo
2007

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	16.6	17.0	18.2	19.1	22.2	25.2	28.6	27.4	26.7	25.5	21.2	18.6
	max.daily mean	20.0	21.4	23.1	24.0	26.0	28.4	30.2	28.9	27.8	27.6	24.6	21.5
	min.daily mean	13.4	12.2	13.8	15.3	19.3	22.0	26.4	24.6	24.6	22.3	18.3	14.1
Relative humidity (%)	monthly mean	70	68	76	75	79	85	80	83	83	71	71	70
	max.daily mean	90	87	91	92	92	93	88	93	93	87	92	91
	min.daily mean	49	52	59	50	60	77	72	75	66	55	54	54
Mean wind speed (m/s)		5.2	4.2	5.2	4.8	3.6	4.1	3.6	3.9	4.1	5.3	6.9	5.1
Most frequent wind direction (bearings)		N	NNW	ESE	E	ESE	SSW	SW	ESE	E	ENE	NE	NNW
Precipitation amount (mm/month)		175	60	194	229	223	412	53	280	212	34	426	238
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		239	342	364	415	554	555	745	600	511	478	222	269

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Meteorological Statistics : Hoa Binh

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