

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

Data Report 2006

October 2007

Network Center for EANET

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CHAPTER 1

Introduction

1. Introduction

The Acid Deposition Monitoring Network in East Asia (EANET) has been established as an important 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, Laos 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 observe concentrations and to evaluate fluxes of acidic substances onto the land surface, while monitoring for soil/vegetation and inland aquatic environment was put into action to assess adverse impacts on terrestrial and aquatic ecosystems. These monitoring data was utilized 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 April of each calendar year based on the guidelines of EANET. The NC had prepared and presented a draft Data Report 2006, which contains the monitoring data from the participating countries at the Seventh Session of Scientific Advisory Committee (SAC7), held in October 2007. The draft Data Report was considered at SAC7 by the experts from participating countries. Following the comments and guidance at SAC7, NC has elaborated and finalized the report.

The Data Report 2006 contains the data obtained from monitoring activities carried out in 2006.

CHAPTER 2

Network Description

2. Network Description

2.1 Classification of Monitoring Sites

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

Table 2.1 Classification of Monitoring Sites

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

2.2 Monitoring activities in 2006

Twelve EANET countries, namely, China, Japan, Mongolia, Republic of Korea and Russian Federation of the North-East Asian region, and Cambodia, Indonesia, Malaysia, Lao PDR, Philippines, Thailand and Vietnam participated in monitoring of acid deposition in 2006. Monitoring data was submitted from a total of 49 monitoring sites, including 20 remote, 12 rural and 17 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](#).

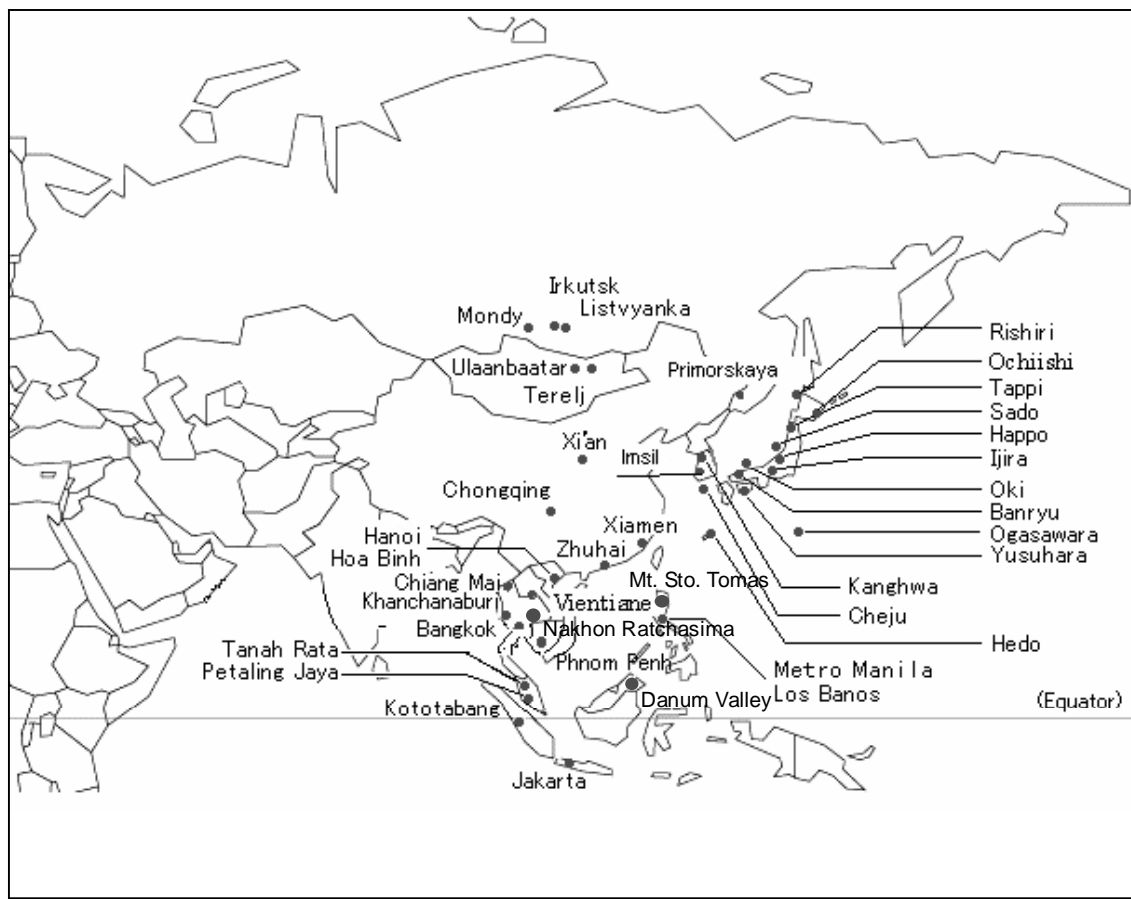


Figure 2.1 Locations of EANET Sites in 2006

(Note: “Xi’an” includes 3 sites, and “Chongqing”, “Xiamen”, “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 2000-2003) was 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	Height above sea
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
	-Weishuiyuan	Rural	34° 22'N	108° 51'E	366m
	- 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 -Zhuxian Cavern	Urban	22° 16'N 22° 12'N	113° 34'E 113° 31'E	40m 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
	Ogasawara	Remote	27° 05' N	142° 13' E	230m
	Sado-seki	Remote	38° 14' N	138° 24' E	136m
	Happo	Remote	36° 42' N	137° 48' E	1,850m
	Oki	Remote	36° 17' N	133° 11' E	90m
	Yusuhara	Remote	33° 22' N	132° 56' E	790m
	Hedo	Remote	26° 52' N	128° 15' E	60m
	Ijira	Rural	35° 34' N	136° 41' E	140m
	Banryu	Urban	34° 41' N	131° 48' E	53m
Lao PDR	Vientiane	Urban	17 ° N	102° E	
Malaysia	Petaling Jaya	Urban	03° 06' N	101° 39' E	87m
	Tanah Rata	Remote	04° 28' N	101° 23' E	1,470m
	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
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 sub-categories, the types of measurements carried out and the equipment used for making dry deposition (air concentration) measurements. Filter packs are used at 33 sites for measurements of air concentrations of pollutants for determination of dry deposition. Automatic or manual gas monitors for NO_x and SO₂ were used in 22 sites, while 17 sites used automatic instruments to monitor ozone concentration. Concentrations of particulate matter as PM₁₀ were measured by automatic or manual instruments at 20 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
	-Weishuiyuan	Rural	✓	✓	None	✓	None
	- Jiwozi	Remote	✓	None	None	None	None
	Xiamen –Hongwen	Urban	✓	✓	None	✓	None
	-Xiaoping	Remote	✓	None	None	None	None
	Zhuhai - Xiang Zhou	Urban	✓	✓	None	✓	None
	-Zhuxiandong	Urban	✓	None	None	None	None
Indonesia	Jakarta	Urban	✓	None	None	None	None
	Serpong	Rural	✓	None	None	None	✓
	Kototabang	Remote	✓	None	None	None	None
	Bandung	Urban	✓	None	None	None	None
Japan	Rishiri	Remote	✓	✓	✓	✓	✓
	Ochiishi	Remote	✓	None	None	None	None
	Tappi	Remote	✓	✓	✓	✓	✓
	Ogasawara	Remote	✓	✓	✓	✓	✓
	Sado-seki	Remote	✓	✓	✓	✓	✓
	Happo	Remote	✓	✓	✓	✓	✓
	Oki	Remote	✓	✓	✓	✓	✓
	Yusuhara	Remote	✓	✓	✓	✓	✓
	Hedo	Remote	✓	✓	✓	✓	✓
	Ijira	Rural	✓	✓	✓	✓	✓
	Banryu	Urban	✓	✓	✓	✓	✓
Lao PDR	Vientiane	Urban	✓	None	None	None	None
Malaysia	Petaling Jaya	Urban	✓	None	None	None	✓
	Tanah Rata	Remote	✓	None	None	None	✓
	Danum Valley	Remote	✓	None	None	None	✓
Mongolia	Ulaanbaatar	Urban	✓	None	None	None	✓
	Terelj	Remote	✓	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	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	✓	✓	✓	✓	✓
	Chiang Mai	Rural	✓	✓	✓	✓	✓
	Nakhon Ratchasima	Remote	✓	None	None	None	✓
Vietnam	Hanoi	Urban	✓	None	None	None	✓
	Hoa Binh	Rural	✓	None	None	None	✓

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.

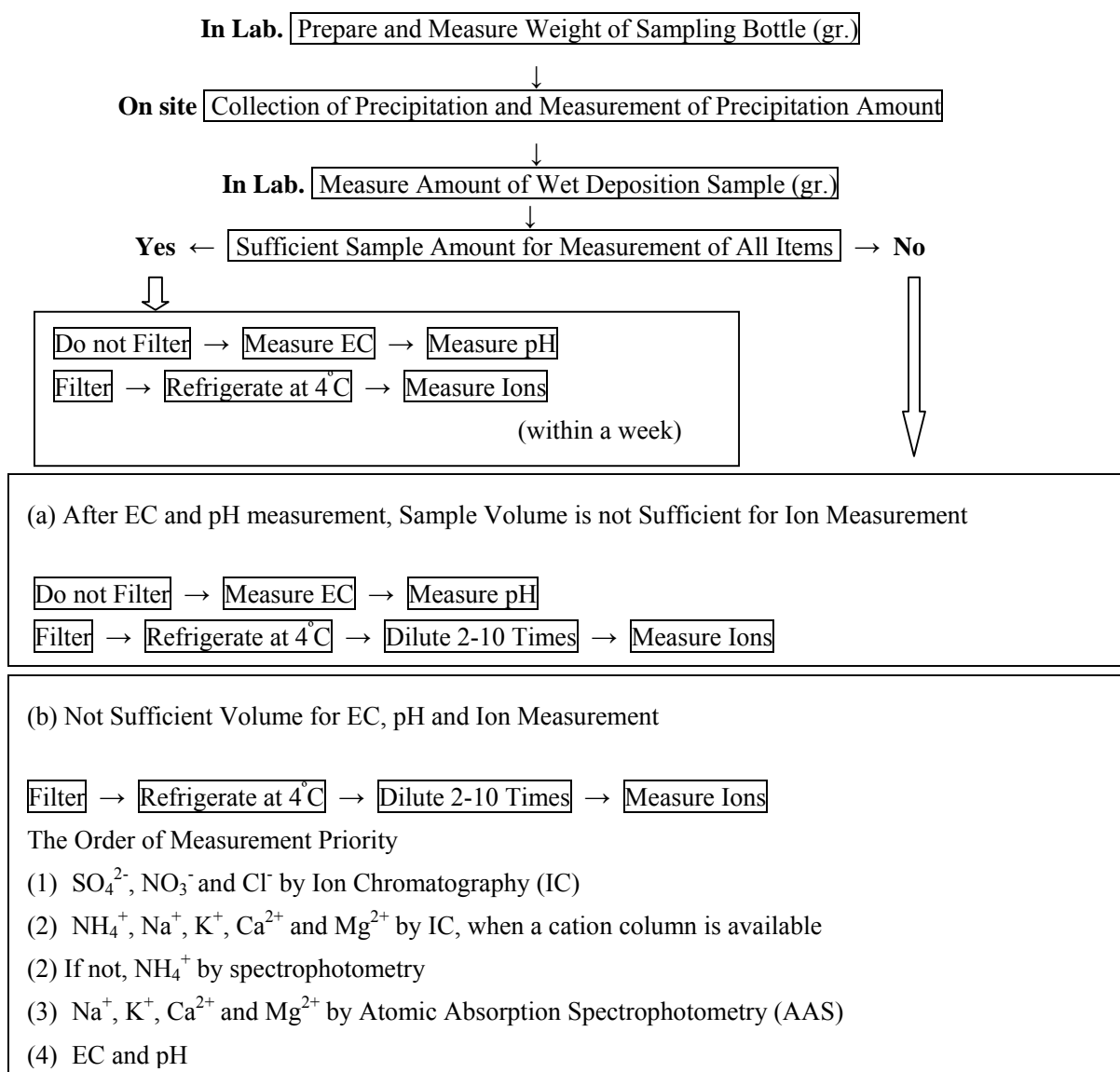


Figure 3.1 Flow Chart of Sampling and Chemical Analysis of Wet Deposition

3.1.1 Field Operation

The use of 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

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

3.1.3 Data Management

The participating laboratories should submit the analyzed data of the precipitation samples to the National Centers of EANET. At the end of each 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 (R₁) and conductivity agreement (R₂). 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 rainwater major constituent analysis

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 a biocide, such as thymol, is used in sample collection.

3.1.5 Overview of the Statistics and Definitions

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

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

Calculated as:

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

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

C_i : measured valid concentration for sample i

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

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

Calculated as:

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

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

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

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

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

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

Data completeness:

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

Calculated as:

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

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

Calculated as:

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

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

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

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

Ion balance (R_1):

Calculated as:

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

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

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

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

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

V_i : the valence of the given ion

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

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

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 (S cm^2/mol)

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

where $c(\)$: the ionic concentrations (µmol/L)

The constants are the molar conductivity of the individual ion at infinite dilution at 25°C (S cm^2/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 μmol/L
- ii) For concentration of other constituent,
 - [<0.2], [<0.4], [<1.0] : The values are lower than each Recommended Minimum Detectable Amount (MDA) given by the Technical Manual for Wet Deposition Monitoring
 - SO₄²⁻, nss-SO₄²⁻, NO₃⁻, Cl⁻, NH₄⁺, Na⁺, K⁺ : <1.0 μmol/L
 - Ca²⁺, nss-Ca²⁺ : <0.2 μmol/L
 - Mg²⁺ : <0.4 μmol/L
- iii) For deposition,
 - [0.00] : Deposition amount is zero. (Precipitation was 0 mm.)
 - [<0.01] : <0.01 mmol/m²

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

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

3.1.7 Monitoring Sites

Precipitation samples are collected on a daily basis at 36 out of 49 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
	Weishuiyuan (Xi'an)	Rural	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
Lao PDR	Vientian	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
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
	Weishuiyuan (Xi'an)	Rural	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
Lao PDR	Vientian	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
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 2006 are shown in [Table 3.6](#) through [Table 3.54](#). The annual summaries of wet deposition monitoring in 2006 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 3.50](#) 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^-
- Mondy (Russia): HCO_3^- , NO_2^- , Br^-
- Listvjanka and Irkutsk (Russia): HCO_3^- , NO_2^- , Br^- , F^-
- Primorskaya (Russia): HCO_3^-

The summaries of annual data from 2000 to 2006 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)

2006	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	15.2	14.8	17.0	13.1	29.5	6.7	2.4	19.6	19.4	2.0	<0.1	7.23	2.71	34.8
Mar	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Apr	19.6	19.2	28.0	8.5	52.9	7.5	2.3	14.8	14.6	1.8	0.2	6.69	1.62	63.7
May	10.4	10.1	6.2	5.4	18.9	4.0	1.2	12.3	12.3	1.1	<0.1	7.47	1.50	29.5
June	6.7	9.9	4.1	4.9	30.7	8.1	1.1	11.6	11.5	1.7	<0.1	7.33	0.72	148.1
July	10.0	9.8	10.0	7.2	14.5	2.3	<1.0	8.9	8.8	0.7	0.1	6.83	1.18	181.2
Aug	<1.0	<1.0	7.9	5.6	11.9	<1.0	2.1	8.7	8.7	<0.4	0.2	6.73	0.96	228.7
Sept	<1.0	<1.0	6.0	5.0	12.4	<1.0	<1.0	5.5	5.5	<0.4	0.3	6.47	0.98	237.6
Oct	<1.0	<1.0	8.1	4.5	13.5	<1.0	1.8	7.3	7.3	<0.4	0.5	6.27	1.18	13.4
Nov	4.2	4.0	23.1	14.2	55.2	3.4	4.7	20.9	20.8	3.0	0.1	6.85	6.47	11.6
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	5.3	5.1	9.1	6.2	17.9	1.8	1.5	9.1	9.1	0.7	0.2	6.72	1.17	948.5
Max.	19.6	19.2	28.0	14.2	55.2	8.1	4.7	20.9	20.8	3.0	0.9	7.68	6.47	
Min.	<1.0	<1.0	3.5	2.8	8.2	<1.0	<1.0	3.8	3.8	<0.4	<0.1	6.05	0.70	

Wet deposition (Monthly)

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

2006	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	0.53	0.52	0.59	0.46	1.02	0.23	0.08	0.68	0.67	0.07	<0.01
Mar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr	1.25	1.22	1.79	0.54	3.37	0.48	0.14	0.94	0.93	0.11	0.01
May	0.31	0.30	0.18	0.16	0.56	0.12	0.03	0.36	0.36	0.03	<0.01
June	1.00	1.47	0.60	0.73	4.55	1.20	0.17	1.72	1.70	0.26	<0.01
July	1.80	1.78	1.81	1.30	2.63	0.42	0.14	1.61	1.60	0.12	0.03
Aug	0.11	0.10	1.81	1.28	2.71	0.06	0.48	1.99	1.99	0.09	0.04
Sept	0.00	0.00	1.42	1.18	2.95	0.00	0.23	1.31	1.31	0.05	0.08
Oct	0.00	0.00	0.11	0.06	0.18	0.00	0.02	0.10	0.10	0.00	<0.01
Nov	0.05	0.05	0.27	0.17	0.64	0.04	0.05	0.24	0.24	0.03	<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	5.04	4.82	8.59	5.88	17.0	1.75	1.41	8.64	8.61	0.63	0.18

Data completeness (Monthly)

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	14	100	100	14	14	14	14	14	14	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	46
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Annual	100	87	100	100	87	87	87	87	87	87	100	100	100	96

[--] 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)

2006	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	379	378	133	52.2	307	20.5	25.0	269	269	34.6	10.3	4.99	12.7	28.7
Feb	246	244	78.4	29.6	243	20.9	18.1	167	166	24.3	26.0	4.59	9.34	58.5
Mar	204	203	67.1	17.0	193	12.6	13.7	155	155	19.8	32.6	4.49	8.18	72.0
Apr	196	195	63.6	19.6	182	12.0	12.3	156	156	19.6	1.5	5.81	6.55	64.5
May	117	116	35.2	10.1	146	3.7	7.4	71.5	71.4	7.8	5.1	5.29	4.22	184.0
June	130	129	41.5	13.3	118	4.0	5.6	83.9	83.8	7.4	11.1	4.95	4.60	163.2
July	83.2	83.0	30.1	4.5	35.2	2.7	2.9	76.3	76.3	5.7	1.5	5.81	2.85	62.6
Aug	1130	1130	533	147	231	50.0	47.1	6530	6530	133	<0.1	7.07	93.0	3.5
Sept	170	169	59.2	18.7	164	6.2	13.9	150	150	10.4	19.8	4.70	6.65	74.7
Oct	248	248	92.1	30.4	324	7.5	22.6	114	113	8.6	7.9	5.10	8.55	56.4
Nov	200	199	76.3	28.7	246	7.6	24.6	99.6	99.4	8.6	35.0	4.46	8.04	63.2
Dec	582	581	239	81.7	720	22.7	62.8	320	320	32.0	38.6	4.41	20.9	10.6
Annual	177	177	60.7	19.3	179	7.9	12.6	143	143	12.6	13.7	4.86	6.70	841.9
Max.	1440	1440	563	192	1620	162	164	6530	6530	249	263	7.07	93.0	
Min.	56.7	56.6	13.1	4.3	24.7	<1.0	1.4	21.9	21.8	2.0	<0.1	3.58	2.20	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	10.9	10.9	3.82	1.50	8.82	0.59	0.72	7.72	7.71	0.99	0.30
Feb	14.4	14.3	4.59	1.73	14.2	1.22	1.06	9.75	9.72	1.42	1.52
Mar	14.7	14.6	4.83	1.22	13.9	0.91	0.98	11.2	11.2	1.43	2.35
Apr	12.6	12.6	4.10	1.26	11.8	0.77	0.79	10.1	10.1	1.26	0.10
May	21.5	21.4	6.47	1.86	26.9	0.68	1.36	13.2	13.1	1.43	0.94
June	21.1	21.1	6.77	2.16	19.2	0.65	0.91	13.7	13.7	1.21	1.82
July	5.21	5.20	1.88	0.28	2.20	0.17	0.18	4.78	4.78	0.36	0.10
Aug	3.95	3.94	1.87	0.51	0.81	0.18	0.16	22.9	22.9	0.46	<0.01
Sept	12.7	12.6	4.42	1.39	12.3	0.47	1.04	11.2	11.2	0.78	1.48
Oct	14.0	14.0	5.19	1.71	18.3	0.42	1.27	6.41	6.40	0.48	0.44
Nov	12.6	12.6	4.82	1.81	15.6	0.48	1.56	6.30	6.28	0.54	2.21
Dec	6.17	6.15	2.54	0.87	7.63	0.24	0.67	3.40	3.39	0.34	0.41
Annual	149	149	51.1	16.2	151	6.66	10.6	120	120	10.6	11.6

Data completeness (Monthly)

2006	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	84	84	84	84	84	84	84	84	84	84	84	84	84	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	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	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Oct	97	97	97	97	97	97	97	97	97	97	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)

2006	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	445	445	141	35.8	240	11.2	28.7	184	184	8.5	85.7	4.07	15.4	44.3
Feb	297	296	91.4	21.9	232	24.9	22.9	150	149	6.9	77.1	4.11	12.0	65.0
Mar	153	153	58.6	14.4	140	8.4	12.6	100	100	6.9	38.5	4.41	6.40	102.7
Apr	106	105	34.7	10.0	103	5.1	8.4	88.6	88.5	3.9	4.9	5.31	4.05	86.8
May	135	134	35.8	10.6	148	4.2	9.5	103	103	4.2	2.1	5.67	4.86	227.2
June	105	105	37.7	11.5	93.0	4.6	8.5	85.3	85.2	2.9	8.9	5.05	4.00	182.0
July	84.0	83.6	32.5	14.1	91.8	7.0	8.7	54.2	54.1	2.2	18.8	4.73	3.83	116.0
Aug	402	402	47.3	65.5	19.7	12.3	11.8	1040	1040	21.9	0.2	6.67	17.3	8.2
Sept	87.5	87.2	30.5	10.1	69.6	5.1	6.5	65.5	65.4	2.4	9.8	5.01	3.45	150.1
Oct	100.0	99.7	35.7	10.2	81.6	4.7	12.1	56.0	55.9	2.2	22.1	4.66	4.07	114.5
Nov	151	151	56.1	13.8	142	5.7	15.0	98.6	98.4	3.6	31.2	4.51	5.95	81.9
Dec	354	353	114	26.5	252	10.0	30.2	239	239	7.6	52.4	4.28	12.0	17.3
Annual	141	140	46.1	13.6	121	6.6	11.4	98.3	98.2	4.0	20.4	4.69	5.45	1196.0
Max.	2940	2940	553	132	953	84.5	125	1260	1260	33.8	331	7.18	62.0	
Min.	46.7	46.5	14.0	4.2	12.7	1.2	2.4	32.7	32.7	1.1	<0.1	3.48	1.91	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	19.7	19.7	6.26	1.59	10.6	0.49	1.27	8.16	8.15	0.38	3.80
Feb	19.3	19.2	5.94	1.42	15.1	1.62	1.49	9.75	9.71	0.45	5.01
Mar	15.7	15.7	6.02	1.48	14.4	0.86	1.29	10.3	10.3	0.71	3.96
Apr	9.16	9.13	3.01	0.87	8.92	0.44	0.73	7.69	7.68	0.34	0.43
May	30.6	30.5	8.14	2.42	33.6	0.96	2.16	23.4	23.3	0.96	0.49
June	19.1	19.1	6.86	2.09	16.9	0.84	1.55	15.5	15.5	0.52	1.62
July	9.74	9.69	3.77	1.63	10.6	0.81	1.01	6.29	6.27	0.26	2.18
Aug	3.30	3.29	0.39	0.54	0.16	0.10	0.10	8.51	8.51	0.18	<0.01
Sept	13.1	13.1	4.57	1.52	10.5	0.77	0.98	9.83	9.82	0.36	1.47
Oct	11.4	11.4	4.08	1.17	9.34	0.54	1.39	6.41	6.40	0.25	2.53
Nov	12.4	12.3	4.59	1.13	11.7	0.47	1.23	8.07	8.06	0.29	2.55
Dec	6.12	6.11	1.97	0.46	4.36	0.17	0.52	4.14	4.14	0.13	0.91
Annual	169	168	55.2	16.2	145	7.95	13.6	118	117	4.78	24.4

Data completeness (Monthly)

2006	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	90	90	90	90	90	90	90	90	90	90	90	90	90	100
Mar	90	90	90	90	90	90	90	90	90	90	90	90	90	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	99	99	99	99	99	99	99	99	99	99	99	99	99	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	94	94	94	94	94	94	94	94	94	94	94	94	94	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 3.9 Monthly results

Site: Shizhan

Country: China

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	619	614	238	106	202	76.1	43.3	499	498	54.6	1.2	5.92	21.6	20.1
Feb	437	432	76.2	61.4	70.4	79.0	30.3	395	393	60.5	1.2	5.91	15.3	34.5
Mar	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Apr	693	671	110	102	275	373	63.8	571	563	139	<0.1	7.01	29.8	23.0
May	119	117	46.2	21.0	114	28.1	10.6	404	403	22.6	0.1	6.90	7.10	50.7
June	93.5	93.0	37.1	16.2	153	7.4	9.0	319	319	8.8	0.2	6.73	7.47	82.2
July	216	215	108	24.5	242	12.2	8.3	195	194	9.6	0.3	6.60	7.36	77.9
Aug	199	197	74.4	20.7	160	36.5	17.0	174	173	19.0	0.7	6.14	7.52	64.4
Sept	130	129	49.2	18.1	80.6	13.6	10.7	110	110	12.5	12.0	4.92	5.64	95.8
Oct	380	378	128	45.6	346	35.6	20.4	368	368	21.0	0.6	6.20	13.9	25.2
Nov	2650	2640	341	247	451	163	82.0	1750	1740	194	0.5	6.32	18.6	8.8
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	274	271	81.7	35.8	167	45.2	18.0	301	300	28.3	2.8	5.56	9.81	482.6
Max.	2650	2640	341	247	578	449	82.0	1750	1740	194	49.0	7.41	36.1	
Min.	54.8	54.4	18.9	7.7	25.8	5.4	3.0	38.4	38.3	6.2	<0.1	4.31	2.13	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	12.4	12.3	4.79	2.13	4.06	1.53	0.87	10.0	10.0	1.10	0.02
Feb	15.1	14.9	2.63	2.12	2.43	2.73	1.05	13.6	13.6	2.09	0.04
Mar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr	15.9	15.4	2.52	2.33	6.33	8.57	1.47	13.1	12.9	3.19	<0.01
May	6.04	5.95	2.34	1.07	5.80	1.43	0.54	20.5	20.5	1.15	<0.01
June	7.68	7.65	3.05	1.33	12.6	0.61	0.74	26.3	26.2	0.72	0.02
July	16.8	16.8	8.38	1.91	18.8	0.95	0.65	15.2	15.2	0.75	0.02
Aug	12.8	12.7	4.79	1.33	10.3	2.35	1.09	11.2	11.2	1.22	0.05
Sept	12.4	12.3	4.71	1.73	7.72	1.31	1.03	10.6	10.5	1.20	1.15
Oct	9.57	9.52	3.22	1.15	8.72	0.90	0.52	9.28	9.26	0.53	0.02
Nov	23.3	23.3	3.00	2.18	3.97	1.44	0.72	15.4	15.4	1.71	<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	132	131	39.4	17.3	80.7	21.8	8.67	145	145	13.6	1.33

Data completeness (Monthly)

2006	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
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	97
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

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

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

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

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

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

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

Table 3.10 Monthly results

Site: Weishuiyuan

Country: China

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	741	734	237	134	180	116	44.5	778	776	69.9	0.3	6.54	28.5	20.5
Feb	438	430	79.2	77.1	62.4	131	20.8	406	404	57.9	0.5	6.30	15.0	22.6
Mar	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Apr	793	778	146	104	263	260	65.6	613	607	128	0.1	6.91	29.1	12.3
May	278	275	81.0	40.9	141	49.8	20.5	424	423	35.4	0.3	6.51	12.2	21.4
June	114	113	38.4	21.6	126	16.5	11.8	325	324	14.7	0.2	6.63	8.89	43.8
July	342	340	161	57.0	400	38.4	50.0	283	283	38.9	0.4	6.39	15.3	32.9
Aug	241	238	86.3	33.2	229	52.9	38.9	205	204	34.6	4.4	5.36	10.9	62.7
Sept	213	211	64.9	25.4	235	29.9	32.3	215	215	46.6	2.0	5.70	7.52	57.1
Oct	274	272	87.5	39.0	383	26.9	32.0	272	272	24.6	0.3	6.49	11.0	31.5
Nov	689	660	152	157	258	479	26.5	312	302	46.3	0.2	6.72	20.0	6.4
Dec	1580	1570	636	200	882	134	83.6	673	670	80.1	3.0	5.53	46.2	4.4
Annual	330	326	104	51.1	239	66.9	33.6	330	328	42.0	1.5	5.84	13.4	315.6
Max.	1580	1570	636	200	882	479	167	989	986	207	28.8	7.61	46.2	
Min.	43.9	43.6	19.1	11.5	<1.0	5.2	3.7	100	99.2	5.1	<0.1	4.54	1.86	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	15.2	15.1	4.85	2.75	3.70	2.38	0.91	16.0	15.9	1.43	<0.01
Feb	9.90	9.72	1.79	1.74	1.41	2.97	0.47	9.19	9.12	1.31	0.01
Mar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr	9.76	9.57	1.80	1.28	3.24	3.19	0.81	7.54	7.47	1.58	<0.01
May	5.95	5.89	1.73	0.88	3.01	1.07	0.44	9.08	9.06	0.76	<0.01
June	5.00	4.95	1.68	0.95	5.51	0.72	0.52	14.2	14.2	0.64	0.01
July	11.3	11.2	5.30	1.88	13.2	1.26	1.64	9.32	9.30	1.28	0.01
Aug	15.1	14.9	5.41	2.08	14.3	3.31	2.44	12.9	12.8	2.17	0.27
Sept	12.2	12.1	3.70	1.45	13.4	1.71	1.84	12.3	12.3	2.66	0.11
Oct	8.62	8.57	2.76	1.23	12.1	0.85	1.01	8.58	8.56	0.77	0.01
Nov	4.41	4.23	0.98	1.00	1.65	3.06	0.17	2.00	1.93	0.30	<0.01
Dec	6.93	6.90	2.80	0.88	3.88	0.59	0.37	2.96	2.95	0.35	0.01
Annual	104	103	32.8	16.1	75.4	21.1	10.6	104	104	13.3	0.46

Data completeness (Monthly)

2006	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
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 3.11 Monthly results

Site: Jiwozi

Country: China

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	204	196	65.8	46.2	94.1	119	27.2	292	289	53.0	0.1	6.92	9.38	36.0
May	142	137	61.5	34.4	26.7	75.1	21.6	431	430	71.3	<0.1	7.15	10.2	33.9
June	59.9	57.5	30.8	24.9	43.0	38.5	11.9	181	180	22.1	0.4	6.36	4.90	30.3
July	88.2	86.1	45.1	33.1	56.6	35.6	22.6	110	109	11.5	0.9	6.03	4.31	55.3
Aug	117	115	45.4	25.5	31.9	47.5	14.6	152	151	30.0	2.8	5.56	5.86	38.6
Sept	211	204	66.5	35.7	41.6	110	30.1	265	263	100	<0.1	7.01	10.4	21.8
Oct	112	108	42.9	32.2	28.3	63.6	18.9	193	192	29.3	7.5	5.13	5.77	18.5
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	128	124	50.7	33.2	48.6	65.6	20.8	221	220	40.6	1.4	5.87	6.95	234.4
Max.	233	226	363	71.3	357	184	95.1	588	588	125	74.1	7.67	14.8	
Min.	30.6	29.5	9.8	9.4	<1.0	1.8	2.5	26.9	26.9	2.1	<0.1	4.13	1.31	

Wet deposition (Monthly)

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

2006	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	7.33	7.07	2.37	1.66	3.39	4.30	0.98	10.5	10.4	1.91	<0.01
May	4.81	4.66	2.09	1.17	0.91	2.55	0.73	14.6	14.6	2.42	<0.01
June	1.81	1.74	0.93	0.75	1.30	1.17	0.36	5.47	5.45	0.67	0.01
July	4.88	4.76	2.50	1.83	3.13	1.97	1.25	6.08	6.03	0.64	0.05
Aug	4.53	4.42	1.75	0.99	1.23	1.83	0.56	5.86	5.82	1.16	0.11
Sept	4.59	4.45	1.45	0.78	0.91	2.39	0.66	5.78	5.73	2.18	<0.01
Oct	2.06	1.99	0.79	0.59	0.52	1.17	0.35	3.56	3.54	0.54	0.14
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	30.0	29.1	11.9	7.77	11.4	15.4	4.88	51.9	51.6	9.51	0.32

Data completeness (Monthly)

2006	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
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 3.12 Monthly results

Site: Hongwen

Country: China

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	124	121	63.7	72.3	38.7	46.1	8.7	181	180	14.1	0.5	6.27	5.48	33.1
Feb	37.9	36.8	24.4	29.9	29.4	18.3	2.6	29.1	28.7	4.3	5.9	5.23	2.16	150.7
Mar	35.2	33.6	40.5	35.5	56.7	25.4	6.1	34.9	34.4	10.0	31.0	4.51	4.01	171.0
Apr	51.8	50.0	39.9	43.6	49.6	30.0	5.0	53.3	52.7	8.1	6.8	5.17	2.87	234.9
May	21.8	20.0	20.3	49.9	20.9	32.5	1.9	13.8	13.1	3.1	23.8	4.62	2.05	560.2
June	19.7	19.0	19.3	19.2	21.8	11.1	2.5	15.0	14.8	4.1	15.3	4.81	1.91	204.5
July	13.5	10.8	5.7	91.2	16.9	62.6	4.8	17.8	16.5	7.8	2.7	5.56	2.11	390.3
Aug	15.1	14.3	11.9	17.6	19.9	13.6	<1.0	14.8	14.5	1.6	6.8	5.17	1.09	130.3
Sept	87.3	85.2	70.1	51.2	120	35.6	6.2	47.3	46.5	10.1	17.9	4.75	4.37	25.2
Oct	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Nov	30.5	29.7	24.7	19.4	27.3	12.7	1.8	13.1	12.8	2.9	20.3	4.69	2.10	106.0
Dec	33.1	32.6	16.9	12.9	28.9	8.1	2.4	25.6	25.4	3.9	20.5	4.69	1.82	127.5
Annual	28.6	27.0	22.4	45.9	29.1	30.8	3.3	25.5	24.8	5.4	14.7	4.83	2.31	2133.8
Max.	197	191	360	341	167	224	51.0	849	845	82.9	148	7.30	26.6	
Min.	<1.0	<1.0	<1.0	5.2	<1.0	<1.0	<1.0	0.3	0.2	<0.4	<0.1	3.83	0.46	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	4.10	4.01	2.11	2.39	1.28	1.52	0.29	5.99	5.96	0.47	0.02
Feb	5.71	5.54	3.68	4.51	4.44	2.75	0.40	4.39	4.33	0.64	0.89
Mar	6.01	5.75	6.93	6.07	9.69	4.34	1.05	5.97	5.88	1.71	5.30
Apr	12.2	11.8	9.37	10.2	11.6	7.06	1.17	12.5	12.4	1.90	1.59
May	12.2	11.2	11.4	28.0	11.7	18.2	1.08	7.74	7.34	1.76	13.3
June	4.02	3.89	3.95	3.92	4.45	2.26	0.51	3.07	3.02	0.83	3.14
July	5.27	4.22	2.21	35.6	6.59	24.4	1.88	6.95	6.42	3.05	1.07
Aug	1.97	1.86	1.55	2.30	2.59	1.77	0.13	1.93	1.89	0.20	0.89
Sept	2.20	2.15	1.76	1.29	3.03	0.90	0.16	1.19	1.17	0.25	0.45
Oct	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov	3.23	3.15	2.62	2.05	2.89	1.35	0.19	1.39	1.36	0.30	2.15
Dec	4.22	4.16	2.15	1.64	3.69	1.04	0.30	3.26	3.24	0.49	2.61
Annual	61.1	57.7	47.7	98.0	62.0	65.6	7.14	54.4	53.0	11.6	31.4

Data completeness (Monthly)

2006	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
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

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

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

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

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

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

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

Table 3.13 Monthly results

Site: Xiaoping

Country: China

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	16.8	16.3	15.1	15.8	14.7	8.7	2.0	5.1	4.9	0.9	8.9	5.05	1.10	150.3
Mar	23.1	22.0	26.8	23.5	41.4	18.0	6.6	9.6	9.2	2.2	19.7	4.71	2.32	169.0
Apr	30.6	29.9	30.5	19.3	41.4	11.6	10.2	10.2	9.9	2.6	33.1	4.48	2.11	170.4
May	7.4	7.2	13.1	2.6	9.8	2.7	30.6	0.9	0.9	0.7	18.9	4.72	0.96	409.5
June	18.1	17.8	21.5	16.4	18.8	5.6	<1.0	0.8	0.7	0.9	19.7	4.71	1.40	284.9
July	7.5	6.1	3.5	38.9	17.8	52.2	6.6	19.0	17.9	4.8	8.3	5.08	3.30	821.2
Aug	39.7	39.2	31.7	13.0	54.7	8.8	1.7	8.8	8.6	3.1	44.0	4.36	2.33	73.2
Sept	51.3	51.0	42.8	10.0	37.9	6.2	77.3	5.1	5.0	2.2	23.5	4.63	2.66	116.0
Oct	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Nov	23.1	22.6	25.1	18.2	14.4	9.6	11.2	25.4	25.2	5.6	15.7	4.80	1.87	111.8
Dec	51.0	50.7	27.5	19.3	5.8	4.3	3.0	5.8	5.7	0.6	14.4	4.84	0.93	45.5
Annual	16.9	16.1	16.0	22.3	21.5	23.2	13.5	10.5	10.0	2.8	16.5	4.78	2.19	2351.8
Max.	142	142	140	69.3	227	116	193	72.7	71.9	11.7	87.1	5.90	14.4	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.3	<0.2	<0.4	1.3	4.06	0.35	

Wet deposition (Monthly)

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

2006	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	2.52	2.44	2.27	2.37	2.20	1.31	0.29	0.76	0.73	0.14	1.34
Mar	3.91	3.73	4.52	3.97	7.00	3.04	1.12	1.62	1.55	0.37	3.32
Apr	5.21	5.09	5.20	3.29	7.05	1.97	1.74	1.74	1.69	0.44	5.64
May	3.01	2.95	5.35	1.08	4.00	1.09	12.5	0.38	0.36	0.28	7.74
June	5.17	5.07	6.13	4.66	5.36	1.59	0.14	0.23	0.19	0.26	5.60
July	6.12	5.04	2.85	32.0	14.6	42.9	5.39	15.6	14.7	3.90	6.85
Aug	2.91	2.87	2.32	0.95	4.01	0.64	0.12	0.65	0.63	0.22	3.22
Sept	5.96	5.91	4.96	1.16	4.40	0.72	8.97	0.59	0.58	0.26	2.73
Oct	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov	2.59	2.52	2.80	2.04	1.61	1.07	1.25	2.84	2.81	0.62	1.76
Dec	2.32	2.31	1.25	0.88	0.26	0.20	0.14	0.26	0.26	0.03	0.65
Annual	39.7	37.9	37.7	52.4	50.5	54.5	31.7	24.7	23.5	6.52	38.9

Data completeness (Monthly)

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	--	--	--	--	--	--	--	--	--	--	--	--	--	100
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: Xiang Zhou

Country: China

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	96.3	91.7	43.9	51.6	182	76.1	22.3	41.2	39.6	35.8	158	3.80	11.8	12.5
Feb	60.7	56.9	28.1	60.6	60.9	62.0	8.2	14.5	13.2	13.9	55.8	4.25	5.65	41.5
Mar	90.1	86.9	63.0	87.9	85.2	53.6	32.3	13.0	11.9	22.9	122	3.91	7.98	22.5
Apr	95.2	92.0	63.0	78.0	154	53.6	21.8	39.0	37.9	35.3	33.4	4.48	2.71	117.0
May	35.2	32.0	22.0	41.1	77.8	52.6	12.4	25.4	24.3	30.6	8.9	5.05	0.97	170.0
June	12.9	11.7	12.8	26.2	15.2	19.6	6.6	5.2	4.8	2.4	2.8	5.55	1.07	342.5
July	14.7	13.2	9.0	25.8	25.8	26.0	8.2	12.1	11.5	10.2	5.0	5.30	1.54	184.0
Aug	21.6	20.4	19.8	60.9	71.5	20.1	3.5	10.1	9.7	4.8	2.3	5.63	2.29	326.5
Sept	18.8	15.1	20.2	47.5	65.1	60.8	6.7	17.0	15.7	13.1	3.9	5.41	2.87	227.5
Oct	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Nov	30.9	28.9	21.7	30.1	<1.0	33.7	<1.0	0.7	0.4	2.7	44.6	4.35	2.75	72.0
Dec	80.0	79.6	30.0	21.4	47.1	5.7	4.3	1.5	1.4	2.1	95.5	4.02	5.51	13.0
Annual	29.2	27.0	21.8	44.6	56.7	35.5	8.2	14.1	13.3	12.0	13.4	4.87	2.20	1529.0
Max.	175	161	205	232	292	271	45.5	68.6	62.7	101	162	6.65	16.5	
Min.	4.2	3.1	2.6	4.2	<1.0	4.8	<1.0	<0.2	<0.2	<0.4	0.2	3.79	0.50	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	1.20	1.15	0.55	0.65	2.27	0.95	0.28	0.52	0.49	0.45	1.98
Feb	2.52	2.36	1.17	2.52	2.53	2.57	0.34	0.60	0.55	0.58	2.32
Mar	2.03	1.95	1.42	1.98	1.92	1.21	0.73	0.29	0.27	0.51	2.74
Apr	11.1	10.8	7.37	9.12	18.0	6.27	2.56	4.56	4.43	4.13	3.91
May	5.98	5.44	3.74	6.99	13.2	8.94	2.10	4.32	4.12	5.20	1.51
June	4.42	4.02	4.39	8.99	5.19	6.70	2.26	1.80	1.65	0.81	0.98
July	2.71	2.42	1.66	4.75	4.75	4.79	1.50	2.22	2.12	1.87	0.92
Aug	7.04	6.65	6.45	19.9	23.4	6.57	1.14	3.30	3.16	1.56	0.76
Sept	4.27	3.44	4.60	10.8	14.8	13.8	1.52	3.87	3.57	2.97	0.89
Oct	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov	2.23	2.08	1.56	2.17	0.00	2.43	0.00	0.05	0.03	0.19	3.21
Dec	1.04	1.03	0.39	0.28	0.61	0.07	0.06	0.02	0.02	0.03	1.24
Annual	44.6	41.3	33.3	68.1	86.6	54.3	12.5	21.6	20.4	18.3	20.4

Data completeness (Monthly)

2006	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
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: Zhuxian Cavern

Country: China

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	46.4	42.1	24.5	55.3	15.5	71.8	<1.0	15.7	14.1	2.9	2.2	5.66	8.30	11.5
Feb	10.7	9.7	4.9	10.6	48.0	16.5	<1.0	9.2	8.8	0.9	8.1	5.09	2.94	21.0
Mar	10.7	8.3	9.3	13.7	91.2	40.8	9.4	37.1	36.2	9.4	182	3.74	7.77	37.5
Apr	49.1	47.5	14.6	26.6	65.4	26.7	7.4	23.3	22.8	6.0	10.4	4.98	2.67	111.5
May	13.1	12.4	8.9	9.1	10.6	10.3	1.9	7.0	6.8	6.9	2.2	5.65	4.38	167.5
June	17.7	16.7	12.6	28.4	12.0	17.6	1.5	23.2	22.8	3.9	1.7	5.76	1.40	332.5
July	11.8	9.8	17.7	51.8	32.2	33.0	1.5	9.4	8.8	4.4	20.4	4.69	2.07	205.5
Aug	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Sept	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Oct	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Nov	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Dec	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Annual	19.3	18.0	13.2	29.3	27.4	22.6	2.6	17.1	16.7	5.0	15.0	4.82	2.67	887.0
Max.	90.8	90.5	28.5	131	130	191	21.5	85.8	81.7	37.0	275	6.85	12.5	
Min.	2.3	2.2	3.7	6.2	<1.0	2.2	<1.0	<0.2	<0.2	<0.4	0.1	3.56	0.40	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.53	0.48	0.28	0.64	0.18	0.83	<0.01	0.18	0.16	0.03	0.03
Feb	0.22	0.20	0.10	0.22	1.01	0.35	0.00	0.19	0.19	0.02	0.17
Mar	0.40	0.31	0.35	0.52	3.42	1.53	0.35	1.39	1.36	0.35	6.81
Apr	5.48	5.30	1.63	2.96	7.30	2.97	0.82	2.60	2.54	0.67	1.16
May	2.19	2.08	1.50	1.52	1.77	1.72	0.32	1.18	1.14	1.16	0.38
June	5.90	5.54	4.20	9.45	3.99	5.84	0.51	7.71	7.58	1.29	0.58
July	2.43	2.02	3.63	10.6	6.62	6.78	0.30	1.93	1.81	0.90	4.20
Aug	**	**	**	**	**	**	**	**	**	**	**
Sept	**	**	**	**	**	**	**	**	**	**	**
Oct	**	**	**	**	**	**	**	**	**	**	**
Nov	**	**	**	**	**	**	**	**	**	**	**
Dec	**	**	**	**	**	**	**	**	**	**	**
Annual	17.1	15.9	11.7	25.9	24.3	20.0	2.32	15.2	14.8	4.43	13.3

Data completeness (Monthly)

2006	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	**	**	**	**	**	**	**	**	**	**	**	**	**	0
Sept	**	**	**	**	**	**	**	**	**	**	**	**	**	0
Oct	**	**	**	**	**	**	**	**	**	**	**	**	**	0
Nov	**	**	**	**	**	**	**	**	**	**	**	**	**	0
Dec	**	**	**	**	**	**	**	**	**	**	**	**	**	0
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	58

[--] 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: Jakarta

Country: Indonesia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	22.7	21.8	12.2	16.8	11.9	15.6	5.5	19.3	19.0	2.4	71.4	4.15	1.96	321.0
Feb	37.1	35.8	14.1	25.1	13.2	22.3	6.1	38.1	37.6	2.8	46.7	4.33	2.34	263.9
Mar	23.2	22.1	18.0	15.7	10.7	17.1	4.9	21.3	21.0	33.4	31.5	4.50	1.65	311.1
Apr	16.7	16.4	24.8	8.2	19.4	4.0	8.9	8.1	8.0	1.3	27.0	4.57	1.27	347.7
May	29.9	29.7	36.4	8.2	25.4	4.4	11.7	8.0	7.9	1.2	28.8	4.54	2.42	88.7
June	59.5	59.1	19.2	19.1	86.8	6.7	40.0	4.7	4.5	1.1	15.8	4.80	2.97	28.4
July	47.1	46.5	64.1	19.8	56.9	9.5	26.3	9.7	9.5	2.0	43.7	4.36	3.67	27.0
Aug	57.3	56.7	64.1	23.1	46.4	10.0	21.4	1.6	1.3	3.2	55.0	4.26	3.85	10.0
Sept	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Oct	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Nov	37.1	36.4	32.5	28.7	26.4	10.9	12.2	15.1	14.9	3.0	20.9	4.68	2.40	17.0
Dec	27.5	26.9	28.1	11.7	18.0	9.5	8.3	11.9	11.7	1.5	29.4	4.53	2.49	66.0
Annual	26.2	25.4	20.5	15.6	17.4	13.1	8.0	18.8	18.5	8.6	41.5	4.38	1.92	1480.8
Max.	172	164	110	158	87.3	136	40.3	193	190	43.2	100	5.10	7.67	
Min.	8.8	8.3	<1.0	4.3	1.1	1.9	<1.0	0.8	0.6	<0.4	7.9	4.00	0.72	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	7.30	7.00	3.90	5.39	3.81	5.01	1.76	6.21	6.10	0.77	22.9
Feb	9.80	9.45	3.73	6.61	3.48	5.88	1.61	10.1	9.93	0.74	12.3
Mar	7.20	6.88	5.60	4.89	3.32	5.32	1.53	6.63	6.52	10.4	9.81
Apr	5.80	5.72	8.64	2.84	6.74	1.38	3.11	2.81	2.78	0.44	9.37
May	2.66	2.63	3.23	0.73	2.25	0.39	1.04	0.71	0.70	0.11	2.55
June	1.69	1.68	0.54	0.54	2.46	0.19	1.14	0.13	0.13	0.03	0.45
July	1.27	1.25	1.73	0.54	1.54	0.26	0.71	0.26	0.26	0.05	1.18
Aug	0.57	0.57	0.64	0.23	0.46	0.10	0.21	0.02	0.01	0.03	0.55
Sept	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov	0.63	0.62	0.55	0.49	0.45	0.19	0.21	0.26	0.25	0.05	0.36
Dec	1.81	1.77	1.85	0.77	1.19	0.62	0.55	0.79	0.77	0.10	1.94
Annual	38.7	37.6	30.4	23.0	25.7	19.3	11.9	27.9	27.5	12.7	61.4

Data completeness (Monthly)

2006	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
Oct	--	--	--	--	--	--	--	--	--	--	--	--	--	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: Serpong

Country: Indonesia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	16.3	15.8	15.7	12.9	26.9	8.3	3.1	3.1	3.0	0.5	15.3	4.81	1.22	308.8
Feb	12.1	11.5	8.2	9.8	23.6	9.2	2.3	3.4	3.2	0.5	6.3	5.20	0.80	298.9
Mar	14.2	13.9	9.1	11.5	13.4	4.8	4.4	7.6	7.5	1.5	12.1	4.92	0.92	132.7
Apr	31.4	31.1	49.5	10.3	45.4	4.8	7.3	10.6	10.5	2.3	38.9	4.41	2.76	264.6
May	29.4	29.3	28.2	5.7	36.2	1.1	5.0	10.9	10.9	3.8	25.6	4.59	2.21	239.3
June	46.8	46.0	42.3	16.5	72.2	12.5	4.5	11.4	11.1	5.4	33.9	4.47	3.26	56.7
July	62.3	61.6	51.7	7.9	52.8	11.3	6.7	6.8	6.6	4.6	75.9	4.12	4.66	28.8
Aug	44.6	43.1	46.1	33.8	66.1	25.7	9.2	15.3	14.7	1.7	25.7	4.59	3.67	25.9
Sept	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Oct	144	140	172	37.9	272	67.7	60.6	53.1	51.6	12.4	41.7	4.38	8.66	6.7
Nov	54.2	53.2	40.1	15.8	80.9	16.7	4.4	15.4	15.1	0.6	33.2	4.48	3.68	73.1
Dec	46.5	46.1	39.8	8.3	70.2	6.5	2.1	2.5	2.3	0.9	47.7	4.32	3.77	167.1
Annual	28.2	27.7	28.3	10.9	40.3	7.5	4.5	7.2	7.0	1.7	25.0	4.60	2.10	1602.6
Max.	144	140	182	37.9	272	67.7	60.6	84.0	83.3	12.4	182	6.83	9.79	
Min.	4.1	3.5	1.9	1.9	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.1	3.74	0.33	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	5.03	4.87	4.85	3.98	8.31	2.57	0.95	0.96	0.91	0.14	4.73
Feb	3.62	3.43	2.45	2.93	7.05	2.76	0.70	1.01	0.95	0.16	1.89
Mar	1.88	1.84	1.21	1.53	1.78	0.64	0.58	1.00	0.99	0.20	1.61
Apr	8.31	8.23	13.1	2.72	12.0	1.27	1.94	2.80	2.77	0.61	10.3
May	7.03	7.02	6.74	1.37	8.65	0.26	1.20	2.61	2.60	0.91	6.13
June	2.65	2.61	2.40	0.94	4.10	0.71	0.26	0.64	0.63	0.30	1.93
July	1.79	1.77	1.49	0.23	1.52	0.33	0.19	0.20	0.19	0.13	2.18
Aug	1.16	1.12	1.19	0.88	1.71	0.67	0.24	0.40	0.38	0.04	0.67
Sept	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	0.97	0.94	1.16	0.26	1.83	0.46	0.41	0.36	0.35	0.08	0.28
Nov	3.96	3.89	2.93	1.15	5.91	1.22	0.32	1.13	1.10	0.05	2.43
Dec	7.76	7.70	6.66	1.39	11.7	1.09	0.36	0.41	0.39	0.15	7.98
Annual	45.2	44.4	45.4	17.4	64.6	12.0	7.14	11.5	11.3	2.78	40.1

Data completeness (Monthly)

2006	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	79	79	79	79	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
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	96	96	96	96	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: Kototabang

Country: Indonesia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	2.3	<1.0	5.9	6.0	12.3	2.8	2.7	2.4	0.7	23.7	4.63	0.60	164.3
Feb	5.5	5.3	<1.0	4.5	3.7	2.9	1.7	3.6	3.5	9.0	22.1	4.66	0.75	116.1
Mar	4.0	3.8	<1.0	6.2	14.2	4.3	6.6	5.4	5.3	1.0	53.7	4.27	0.47	128.5
Apr	6.9	6.7	1.0	6.1	11.4	3.3	5.3	6.1	6.0	1.3	48.1	4.32	0.74	166.3
May	6.1	5.9	1.7	8.3	9.9	3.6	4.6	1.1	1.0	1.1	30.9	4.51	0.76	74.4
June	10.4	9.8	2.1	10.4	8.8	10.0	4.1	22.7	22.4	7.5	12.0	4.92	1.33	62.7
July	7.5	6.8	3.2	16.5	20.6	12.1	9.5	6.0	5.7	1.8	11.2	4.95	1.06	154.3
Aug	7.4	7.2	1.6	8.1	8.7	4.9	4.0	4.0	3.9	1.0	17.9	4.75	0.91	80.6
Sept	12.6	12.3	2.6	9.7	10.5	5.4	4.8	3.5	3.4	1.0	24.1	4.62	1.22	300.4
Oct	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Nov	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Dec	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Annual	7.7	7.3	1.4	7.8	9.9	6.2	4.6	5.2	5.1	2.3	29.4	4.53	0.88	1247.6
Max.	14.3	13.3	3.5	16.5	20.6	29.1	9.5	36.0	35.7	12.2	93.3	5.18	1.55	
Min.	1.2	<1.0	<1.0	3.9	<1.0	1.7	<1.0	0.8	0.8	<0.4	6.6	4.03	0.40	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.50	0.38	0.00	0.97	0.99	2.02	0.46	0.44	0.40	0.12	3.90
Feb	0.64	0.62	<0.01	0.52	0.43	0.34	0.20	0.41	0.41	1.04	2.56
Mar	0.52	0.48	0.09	0.80	1.82	0.55	0.84	0.69	0.68	0.13	6.91
Apr	1.15	1.11	0.17	1.02	1.90	0.55	0.88	1.02	1.00	0.21	7.99
May	0.46	0.44	0.13	0.62	0.74	0.27	0.34	0.08	0.08	0.08	2.30
June	0.65	0.62	0.13	0.65	0.55	0.63	0.26	1.42	1.41	0.47	0.75
July	1.16	1.05	0.49	2.55	3.17	1.87	1.46	0.92	0.88	0.27	1.73
Aug	0.60	0.58	0.13	0.65	0.70	0.39	0.32	0.32	0.31	0.08	1.44
Sept	3.79	3.69	0.80	2.91	3.14	1.62	1.45	1.05	1.01	0.30	7.23
Oct	**	**	**	**	**	**	**	**	**	**	**
Nov	**	**	**	**	**	**	**	**	**	**	**
Dec	**	**	**	**	**	**	**	**	**	**	**
Annual	9.55	9.08	1.74	9.74	12.3	7.75	5.69	6.48	6.31	2.82	36.6

Data completeness (Monthly)

2006	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	31	31	31	31	31	31	31	31	31	31	31	31	31	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	32	32	32	32	32	32	32	32	32	32	32	32	32	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
Nov	**	**	**	**	**	**	**	**	**	**	**	**	**	0
Dec	**	**	**	**	**	**	**	**	**	**	**	**	**	0
Annual	87	87	87	87	87	87	87	87	87	87	87	87	87	75

[--] 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: Bandung

Country: Indonesia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	18.6	18.3	13.2	5.4	19.7	4.5	5.0	9.0	8.9	1.1	10.9	4.96	1.14	267.6
Feb	20.7	20.3	18.2	6.3	22.2	6.6	2.0	11.7	11.6	1.7	10.6	4.97	1.23	227.9
Mar	28.7	26.4	20.1	35.9	42.9	39.1	13.3	25.1	24.3	10.6	0.2	6.70	2.13	27.0
Apr	18.3	17.4	16.6	13.4	28.7	14.9	4.1	16.4	16.1	4.1	1.4	5.85	1.29	176.5
May	46.7	44.6	42.4	35.7	71.8	36.0	11.8	39.2	38.4	12.8	0.2	6.69	2.85	51.7
June	79.3	76.8	66.9	52.8	104	41.0	14.3	82.5	81.6	20.4	0.2	6.77	4.61	7.3
July	65.4	63.3	55.0	34.6	141	34.2	14.4	47.3	46.6	11.1	0.3	6.55	3.95	65.6
Aug	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Sept	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Oct	197	186	206	199	467	178	79.9	182	178	33.6	<0.1	7.75	14.6	2.0
Nov	33.8	31.2	29.5	21.4	82.6	43.1	4.8	11.7	10.8	2.6	0.4	6.41	2.06	109.7
Dec	26.7	25.4	24.3	13.5	55.0	21.6	2.9	8.9	8.4	1.8	9.4	5.03	1.72	376.2
Annual	26.8	25.7	23.1	14.1	46.5	18.3	4.8	14.8	14.4	3.3	7.0	5.15	1.69	1311.4
Max.	207	198	223	239	481	396	86.3	204	200	40.4	80.4	7.80	15.2	
Min.	5.7	5.3	<1.0	2.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	<0.1	4.10	0.46	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	4.97	4.89	3.52	1.45	5.28	1.22	1.34	2.40	2.38	0.29	2.91
Feb	4.71	4.62	4.16	1.44	5.06	1.51	0.47	2.67	2.64	0.40	2.42
Mar	0.78	0.71	0.54	0.97	1.16	1.06	0.36	0.68	0.66	0.29	<0.01
Apr	3.23	3.07	2.93	2.37	5.07	2.63	0.72	2.89	2.84	0.72	0.25
May	2.42	2.30	2.19	1.85	3.71	1.86	0.61	2.02	1.98	0.66	0.01
June	0.58	0.56	0.49	0.39	0.76	0.30	0.10	0.60	0.60	0.15	<0.01
July	4.29	4.15	3.60	2.27	9.23	2.24	0.94	3.10	3.05	0.73	0.02
Aug	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sept	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	0.39	0.37	0.41	0.40	0.93	0.36	0.16	0.36	0.36	0.07	<0.01
Nov	3.70	3.42	3.24	2.35	9.06	4.72	0.52	1.29	1.19	0.28	0.04
Dec	10.0	9.56	9.16	5.08	20.7	8.12	1.08	3.34	3.17	0.69	3.52
Annual	35.1	33.7	30.3	18.6	61.0	24.0	6.31	19.4	18.9	4.27	9.18

Data completeness (Monthly)

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Sept	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

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

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

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

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

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

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

Table 3.20 Monthly results

Site: Rishiri

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	39.8	23.0	12.7	315	23.0	277	7.1	8.2	2.2	31.7	24.2	4.62	6.04	41.4
Feb	30.8	13.8	13.1	326	17.2	282	6.8	8.9	2.8	31.5	18.1	4.74	5.74	47.5
Mar	83.4	56.3	80.9	520	65.5	450	14.2	56.0	46.2	55.5	28.4	4.55	10.8	23.5
Apr	13.5	9.5	9.2	75.2	11.0	65.9	1.4	6.7	5.2	8.0	9.2	5.04	1.84	62.2
May	25.4	24.2	19.7	20.1	30.2	18.9	2.1	8.0	7.6	3.4	19.4	4.71	1.91	137.0
June	17.2	16.5	18.1	14.8	23.4	12.1	4.4	1.7	1.4	1.9	25.3	4.60	1.74	76.0
July	8.4	8.0	7.6	6.9	10.5	5.6	3.3	0.8	0.6	0.9	9.3	5.03	0.79	49.7
Aug	18.7	17.4	14.9	22.8	23.6	21.0	<1.0	1.2	0.7	2.5	27.8	4.56	1.88	227.0
Sept	12.7	9.6	10.5	56.6	5.4	51.8	2.8	1.8	0.7	5.4	16.9	4.77	1.79	277.0
Oct	27.6	13.8	7.5	271	13.9	230	5.4	7.0	2.2	25.5	16.3	4.79	4.54	176.0
Nov	42.0	19.4	15.2	437	16.3	376	10.6	10.6	2.5	42.6	29.4	4.53	7.38	79.5
Dec	31.3	20.6	12.9	200	15.9	177	4.4	4.9	1.1	20.4	36.0	4.44	4.40	97.0
Annual	22.9	16.3	14.0	126	17.5	110	3.7	5.3	3.0	12.6	21.5	4.67	3.04	1293.8
Max.	493	459	1030	5560	426	4730	104	477	465	551	309	5.78	74.0	
Min.	2.0	1.6	1.3	1.8	<1.0	1.8	<1.0	<0.2	<0.2	<0.4	1.7	3.51	0.32	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	1.65	0.95	0.53	13.0	0.95	11.5	0.29	0.34	0.09	1.31	1.00
Feb	1.46	0.66	0.62	15.5	0.82	13.4	0.33	0.42	0.13	1.49	0.86
Mar	1.96	1.33	1.90	12.2	1.54	10.6	0.33	1.32	1.09	1.31	0.67
Apr	0.84	0.59	0.57	4.68	0.68	4.10	0.09	0.41	0.33	0.50	0.57
May	3.48	3.32	2.70	2.75	4.14	2.59	0.29	1.09	1.03	0.47	2.66
June	1.31	1.25	1.38	1.12	1.78	0.92	0.34	0.13	0.11	0.14	1.93
July	0.41	0.40	0.38	0.34	0.52	0.28	0.16	0.04	0.03	0.04	0.46
Aug	4.24	3.95	3.37	5.17	5.35	4.77	0.21	0.27	0.17	0.57	6.31
Sept	3.52	2.65	2.91	15.7	1.48	14.4	0.76	0.50	0.21	1.49	4.68
Oct	4.87	2.42	1.31	47.7	2.45	40.5	0.94	1.23	0.39	4.48	2.87
Nov	3.34	1.54	1.21	34.8	1.29	29.9	0.84	0.84	0.20	3.39	2.34
Dec	3.03	2.00	1.25	19.4	1.55	17.2	0.42	0.48	0.11	1.98	3.49
Annual	29.6	21.0	18.2	163	22.6	142	4.85	6.90	3.87	16.3	27.8

Data completeness (Monthly)

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Feb	93	93	93	93	93	93	93	93	93	93	93	93	93	100
Mar	95	95	95	95	95	95	95	95	95	95	95	95	95	100
Apr	98	98	98	98	98	98	98	98	98	98	98	98	98	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	98	98	98	100
July	95	95	95	95	95	95	95	95	95	95	95	95	95	100
Aug	98	98	98	98	98	98	98	98	98	98	98	98	98	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	90	90	90	90	90	90	90	90	90	90	90	90	90	100
Nov	75	75	75	75	75	75	75	75	75	75	75	75	75	100
Dec	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Annual	96	96	96	96	96	96	96	96	96	96	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 3.21 Monthly results

Site: Ochiishi

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	*	*	*	*	*	*	*	*	*	*	*	*	*	40.0
Feb	151	35.1	58.4	2170	76.3	1940	56.9	67.7	25.7	226	50.8	4.29	25.5	6.5
Mar	42.6	17.6	21.7	461	18.9	414	9.0	22.9	13.9	48.0	10.4	4.98	6.81	44.4
Apr	40.3	15.4	10.5	504	9.0	414	9.4	18.4	9.5	48.8	9.9	5.00	7.39	91.5
May	17.3	12.7	11.4	88.9	12.2	76.5	3.1	6.0	4.4	8.6	15.5	4.81	2.28	141.5
June	21.3	18.9	18.9	45.0	24.4	39.1	2.7	3.3	2.5	5.2	25.5	4.59	2.34	73.0
July	15.0	12.5	8.1	48.6	7.3	41.4	2.0	3.8	2.9	5.3	21.6	4.67	1.73	16.5
Aug	8.4	6.8	5.1	33.1	3.3	27.4	<1.0	1.7	1.1	3.6	12.3	4.91	1.04	104.5
Sept	23.6	7.8	9.3	298	38.6	263	10.9	8.4	2.7	31.7	10.7	4.97	5.15	136.0
Oct	62.8	3.7	3.8	1200	2.2	1070	19.8	23.4	1.8	106	6.5	5.19	15.6	164.7
Nov	26.6	9.0	12.4	336	4.0	293	8.3	8.5	2.2	32.8	13.9	4.86	5.28	115.2
Dec	30.3	9.5	8.3	381	10.6	344	7.9	10.7	3.3	38.4	14.4	4.84	5.50	63.1
Annual	27.7	11.3	11.4	317	15.6	278	7.7	10.2	4.3	31.2	13.8	4.86	5.00	996.9
Max.	647	206	311	9540	1560	8350	225	266	195	895	122	7.95	54.7	
Min.	3.6	<1.0	<1.0	2.9	<1.0	2.0	<1.0	0.4	<0.2	0.6	<0.1	3.92	0.66	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	*	*	*	*	*	*	*	*	*	*	*
Feb	0.98	0.23	0.38	14.1	0.50	12.6	0.37	0.44	0.17	1.47	0.33
Mar	1.89	0.78	0.96	20.5	0.84	18.4	0.40	1.02	0.62	2.13	0.46
Apr	3.69	1.41	0.96	46.1	0.82	37.9	0.86	1.69	0.87	4.47	0.91
May	2.44	1.79	1.61	12.6	1.72	10.8	0.44	0.85	0.62	1.22	2.19
June	1.55	1.38	1.38	3.28	1.78	2.86	0.20	0.24	0.18	0.38	1.86
July	0.25	0.21	0.13	0.80	0.12	0.68	0.03	0.06	0.05	0.09	0.36
Aug	0.88	0.71	0.53	3.46	0.35	2.87	0.10	0.18	0.12	0.37	1.29
Sept	3.21	1.06	1.27	40.5	5.26	35.7	1.48	1.14	0.37	4.31	1.45
Oct	10.3	0.60	0.62	197	0.36	177	3.26	3.85	0.29	17.4	1.07
Nov	3.07	1.03	1.43	38.8	0.46	33.8	0.96	0.98	0.25	3.78	1.60
Dec	1.91	0.60	0.52	24.0	0.67	21.7	0.50	0.68	0.21	2.42	0.91
Annual	27.6	11.3	11.3	316	15.6	277	7.64	10.2	4.29	31.1	13.8

Data completeness (Monthly)

2006	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	45
Feb	92	92	92	92	46	92	92	92	92	92	46	46	46	100
Mar	98	98	98	98	71	98	98	98	98	98	96	96	96	100
Apr	97	97	97	97	97	97	97	97	97	97	96	96	96	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	98	98	98	100
July	91	91	91	91	91	91	91	91	91	91	85	85	85	100
Aug	70	70	70	70	70	70	70	70	70	70	69	69	69	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	27	27	27	27	13	27	27	27	27	27	27	27	27	100
Nov	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Dec	100	100	100	100	100	100	100	100	100	100	95	95	95	100
Annual	80	80	80	80	76	80	80	80	80	80	79	79	79	95

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

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

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

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

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

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

Table 3.22 Monthly results

Site: Tappi

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	70.9	25.8	36.1	801	16.1	748	15.9	20.9	4.7	81.9	42.4	4.37	13.9	27.5
Feb	104	55.2	62.9	920	45.0	807	21.4	33.4	16.0	91.8	84.4	4.07	16.9	36.5
Mar	64.7	30.5	38.6	620	35.6	568	13.4	24.6	12.3	64.0	32.3	4.49	10.7	57.6
Apr	57.5	35.6	37.9	408	37.0	363	9.7	33.5	25.7	42.6	21.9	4.66	7.49	75.0
May	67.5	58.6	45.1	168	54.4	148	7.9	21.5	18.3	19.9	50.0	4.30	5.61	101.5
June	21.8	20.3	27.2	27.7	29.0	25.2	2.6	5.2	4.7	3.9	34.7	4.46	2.57	57.5
July	14.7	6.7	16.2	148	6.8	132	2.8	4.5	1.7	14.9	18.1	4.74	3.06	87.0
Aug	8.0	6.7	8.7	21.7	5.6	20.2	<1.0	0.8	0.4	2.0	17.6	4.75	1.28	115.5
Sept	20.7	4.6	7.2	304	4.0	269	5.3	7.3	1.5	30.6	13.8	4.86	4.95	108.8
Oct	40.5	13.4	18.3	514	12.7	448	9.6	14.0	4.3	52.0	22.6	4.65	8.12	76.0
Nov	41.1	16.7	23.1	461	17.6	404	9.4	12.9	4.1	46.7	33.3	4.48	7.88	148.7
Dec	36.9	10.4	19.2	514	11.5	452	11.1	12.3	2.6	50.9	22.6	4.65	8.31	72.0
Annual	35.8	18.4	22.5	326	18.9	289	7.1	12.7	6.5	33.3	26.5	4.58	5.98	963.7
Max.	421	315	249	5660	328	5240	298	183	142	552	195	5.87	36.6	
Min.	2.5	<1.0	1.6	5.4	<1.0	5.0	<1.0	0.6	<0.2	0.6	1.3	3.71	0.55	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	1.95	0.71	0.99	22.0	0.44	20.6	0.44	0.57	0.13	2.25	1.17
Feb	3.79	2.01	2.30	33.6	1.64	29.4	0.78	1.22	0.58	3.35	3.08
Mar	3.73	1.76	2.22	35.7	2.05	32.7	0.77	1.42	0.71	3.69	1.86
Apr	4.31	2.67	2.84	30.6	2.77	27.3	0.73	2.51	1.92	3.20	1.64
May	6.85	5.94	4.58	17.1	5.52	15.0	0.80	2.18	1.86	2.02	5.08
June	1.25	1.17	1.57	1.59	1.67	1.45	0.15	0.30	0.27	0.22	1.99
July	1.28	0.58	1.41	12.9	0.59	11.5	0.24	0.39	0.15	1.30	1.57
Aug	0.92	0.78	1.01	2.50	0.64	2.33	0.04	0.10	0.05	0.23	2.03
Sept	2.26	0.50	0.78	33.1	0.43	29.3	0.58	0.80	0.16	3.33	1.51
Oct	3.07	1.02	1.39	39.1	0.96	34.0	0.73	1.06	0.33	3.95	1.71
Nov	6.11	2.49	3.43	68.5	2.62	60.1	1.40	1.92	0.62	6.95	4.95
Dec	2.66	0.75	1.38	37.0	0.83	32.5	0.80	0.89	0.19	3.66	1.63
Annual	34.5	17.8	21.7	314	18.2	278	6.86	12.3	6.26	32.1	25.5

Data completeness (Monthly)

2006	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	18	18	18	18	18	18	18	18	18	18	18	18	18	84
Feb	38	38	38	38	38	38	38	38	38	38	33	33	33	100
Mar	92	92	92	92	92	92	92	92	92	92	89	89	89	100
Apr	96	96	96	96	96	96	96	96	96	96	91	91	91	97
May	63	63	63	63	63	63	63	63	63	63	62	62	62	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	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	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	99	99	99	100
Dec	100	100	100	100	100	100	100	100	100	100	97	97	97	100
Annual	91	91	91	91	91	91	91	91	91	91	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 3.23 Monthly results

Site: Sado-seki

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	69.2	26.7	28.6	822	19.4	707	16.4	30.9	15.6	79.8	17.8	4.75	6.71	27.6
Feb	146	36.2	49.3	2100	36.8	1820	50.8	57.7	18.4	198	21.8	4.66	8.43	50.4
Mar	69.8	55.7	59.5	254	49.9	235	9.2	49.7	44.6	30.8	23.2	4.63	6.34	58.3
Apr	72.1	46.2	50.5	494	47.1	429	12.7	48.9	39.6	53.1	12.8	4.89	8.57	66.8
May	12.2	11.1	13.7	20.9	7.4	18.5	<1.0	8.3	7.9	3.5	9.1	5.04	1.10	109.6
June	20.9	18.7	20.0	40.7	30.4	38.0	2.7	6.9	6.1	5.4	17.9	4.75	2.09	19.5
July	6.4	5.4	7.5	17.0	8.1	16.4	<1.0	1.4	1.1	1.8	9.7	5.01	0.93	390.5
Aug	13.8	12.5	17.6	23.7	16.7	22.2	1.1	2.0	1.5	2.5	35.1	4.45	2.28	69.1
Sept	5.7	3.9	7.9	34.7	2.9	31.3	<1.0	2.4	1.7	4.0	9.4	5.03	1.14	82.6
Oct	17.0	2.7	7.5	284	6.2	249	4.4	7.0	1.6	27.8	6.8	5.17	4.26	70.1
Nov	51.7	20.4	23.8	608	21.6	520	12.0	17.2	6.0	60.1	36.0	4.44	8.25	141.6
Dec	38.5	16.2	24.7	419	22.3	373	8.2	11.6	3.7	41.9	41.6	4.38	6.99	177.3
Annual	28.3	14.8	18.9	256	16.6	224	5.7	12.1	7.3	25.9	19.7	4.70	3.81	1263.6
Max.	1600	365	641	28600	502	25900	501	596	318	2870	115	7.02	68.0	
Min.	2.1	<1.0	1.9	1.0	<1.0	1.5	<1.0	0.4	<0.2	<0.4	<0.1	3.94	0.38	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	1.91	0.74	0.79	22.7	0.54	19.5	0.45	0.85	0.43	2.20	0.49
Feb	7.34	1.82	2.48	106	1.85	91.5	2.56	2.90	0.93	10.00	1.10
Mar	4.07	3.25	3.47	14.8	2.91	13.7	0.54	2.90	2.60	1.80	1.36
Apr	4.82	3.09	3.38	33.0	3.15	28.7	0.85	3.27	2.65	3.55	0.85
May	1.34	1.22	1.50	2.29	0.82	2.02	0.10	0.91	0.86	0.38	1.00
June	0.41	0.36	0.39	0.79	0.59	0.74	0.05	0.14	0.12	0.11	0.35
July	2.49	2.11	2.95	6.62	3.16	6.39	0.23	0.57	0.43	0.71	3.78
Aug	0.95	0.86	1.21	1.64	1.16	1.54	0.08	0.14	0.11	0.17	2.43
Sept	0.47	0.32	0.65	2.87	0.24	2.59	0.05	0.20	0.14	0.33	0.78
Oct	1.19	0.19	0.53	19.9	0.44	17.4	0.31	0.49	0.12	1.95	0.48
Nov	7.32	2.88	3.38	86.1	3.06	73.6	1.70	2.44	0.85	8.51	5.10
Dec	6.83	2.88	4.38	74.2	3.95	66.1	1.46	2.05	0.65	7.43	7.37
Annual	35.7	18.7	23.9	324	21.0	283	7.20	15.3	9.20	32.7	24.9

Data completeness (Monthly)

2006	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	86	86	86	86	86	86	86	86	86	86	78	78	78	100
Feb	52	52	52	52	52	52	52	52	52	52	41	41	41	100
Mar	85	85	85	85	85	85	85	85	85	85	82	82	82	100
Apr	98	98	98	98	98	98	98	98	98	98	94	94	94	100
May	100	100	100	100	100	100	100	100	100	100	99	99	99	100
June	97	97	97	97	97	97	97	97	97	97	92	92	92	93
July	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Aug	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	99	99	99	99	99	99	99	99	99	99	98	98	98	100
Nov	100	100	100	100	100	100	100	100	100	100	96	96	96	100
Dec	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Annual	97	97	97	97	97	97	97	97	97	97	95	95	95	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 3.24 Monthly results

Site: Happo

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	14.5	14.2	5.9	7.0	9.0	4.9	<1.0	4.8	4.7	1.0	14.8	4.83	0.98	146.5
Feb	18.7	18.3	14.0	13.2	14.0	8.2	<1.0	1.6	1.4	1.0	36.0	4.44	1.99	141.1
Mar	31.3	30.2	36.2	21.0	29.6	17.1	2.0	24.4	24.0	3.8	15.3	4.82	2.12	152.5
Apr	30.9	30.3	17.0	12.1	25.1	10.8	2.1	26.5	26.3	3.5	10.7	4.97	1.75	224.3
May	12.8	12.6	8.0	3.5	9.6	2.8	<1.0	15.3	15.3	1.4	4.0	5.40	0.78	242.0
June	19.1	19.0	12.5	3.3	24.3	<1.0	1.1	6.1	6.1	1.0	14.0	4.85	1.27	101.9
July	3.0	2.9	3.7	1.8	3.5	<1.0	<1.0	1.2	1.1	<0.4	7.1	5.15	0.40	925.4
Aug	17.2	17.1	14.1	4.0	20.8	2.0	<1.0	1.8	1.7	0.7	29.3	4.53	1.69	25.5
Sept	3.3	3.3	4.3	1.4	3.3	<1.0	<1.0	1.2	1.2	<0.4	8.6	5.06	0.45	207.8
Oct	2.6	2.3	2.4	6.1	2.3	4.6	<1.0	0.9	0.8	0.8	7.4	5.13	0.42	300.5
Nov	11.2	10.8	9.4	10.7	7.3	7.5	<1.0	1.5	1.3	0.9	20.3	4.69	1.17	156.5
Dec	12.0	11.8	8.3	5.7	5.8	3.9	<1.0	1.5	1.4	0.6	22.2	4.65	1.20	131.2
Annual	10.3	10.1	8.3	5.7	9.0	4.1	<1.0	6.3	6.2	1.0	10.7	4.97	0.84	2755.2
Max.	255	248	337	196	370	168	20.9	163	160	27.3	148	6.87	15.2	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.1	3.83	0.09	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	2.12	2.07	0.86	1.02	1.32	0.71	0.08	0.71	0.69	0.15	2.16
Feb	2.64	2.57	1.98	1.86	1.97	1.15	0.10	0.22	0.20	0.14	5.08
Mar	4.77	4.61	5.53	3.20	4.52	2.62	0.30	3.72	3.66	0.58	2.33
Apr	6.94	6.79	3.80	2.70	5.62	2.42	0.46	5.95	5.90	0.79	2.40
May	3.09	3.05	1.93	0.84	2.32	0.67	0.13	3.71	3.70	0.33	0.96
June	1.94	1.94	1.27	0.34	2.48	0.10	0.11	0.62	0.62	0.10	1.43
July	2.73	2.68	3.43	1.68	3.20	0.86	0.08	1.07	1.05	0.05	6.55
Aug	0.44	0.44	0.36	0.10	0.53	0.05	<0.01	0.05	0.04	0.02	0.75
Sept	0.69	0.68	0.90	0.30	0.69	0.13	0.01	0.26	0.26	0.05	1.79
Oct	0.78	0.70	0.72	1.84	0.70	1.40	0.04	0.28	0.25	0.25	2.24
Nov	1.76	1.69	1.47	1.67	1.14	1.17	0.07	0.23	0.21	0.14	3.18
Dec	1.57	1.54	1.09	0.74	0.76	0.52	0.06	0.20	0.19	0.08	2.91
Annual	28.4	27.8	22.7	15.6	24.7	11.4	1.42	17.3	17.0	2.64	29.4

Data completeness (Monthly)

2006	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	86	86	86	86	86	86	86	86	86	86	84	84	84	100
Feb	51	51	51	51	51	51	51	51	51	51	51	51	51	100
Mar	96	96	96	96	96	96	96	96	96	96	96	96	96	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	100	100	100	100	100	100	100	100	100	100	100	100	100	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	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	74	74	74	74	74	74	74	74	74	74	74	74	74	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 3.25 Monthly results

Site: Ijira

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	27.4	22.6	21.4	96.2	41.7	80.5	8.6	4.6	2.8	11.3	17.8	4.75	3.00	126.7	
Feb	11.7	11.3	12.0	10.3	14.8	7.4	1.4	1.4	1.3	1.1	16.0	4.79	1.20	168.3	
Mar	28.9	28.0	27.1	19.5	28.6	16.0	1.9	12.2	11.8	3.6	22.1	4.66	2.21	245.3	
Apr	*	*	*	*	*	*	*	*	*	*	*	*	*	*	192.5
May	18.2	17.3	29.7	18.5	20.7	15.6	<1.0	3.4	3.0	2.4	28.4	4.55	2.19	457.0	
June	18.5	18.1	17.4	7.9	20.7	5.7	1.0	1.5	1.3	0.9	25.6	4.59	1.74	320.0	
July	26.0	25.8	29.8	7.6	31.2	3.6	<1.0	0.9	0.8	0.6	43.1	4.37	2.69	534.5	
Aug	27.5	26.4	33.2	23.3	30.2	17.3	<1.0	3.7	3.4	2.3	41.9	4.38	3.04	155.0	
Sept	17.6	17.2	21.1	9.3	15.1	6.5	<1.0	1.0	0.9	0.8	37.1	4.43	2.10	293.5	
Oct	13.0	12.6	21.4	8.6	15.7	6.0	<1.0	1.0	0.9	0.7	27.3	4.56	1.63	121.4	
Nov	17.8	16.2	26.3	31.2	21.3	26.0	2.1	3.7	3.2	3.5	25.9	4.59	2.11	119.0	
Dec	6.0	3.8	3.9	42.3	3.2	35.7	1.0	1.1	0.3	3.9	7.4	5.13	1.02	95.5	
Annual	20.6	20.0	24.2	14.4	22.8	10.8	<1.0	2.9	2.7	1.6	31.0	4.51	2.15	2828.6	
Max.	94.5	91.4	150	194	139	190	15.6	86.7	85.6	23.6	132	5.28	9.26		
Min.	4.3	3.8	3.8	1.2	2.5	<1.0	<1.0	0.4	0.3	<0.4	5.2	3.88	0.49		

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	3.47	2.86	2.71	12.2	5.28	10.2	1.09	0.58	0.36	1.43	2.25
Feb	1.97	1.90	2.02	1.73	2.50	1.24	0.24	0.24	0.22	0.18	2.70
Mar	7.09	6.86	6.66	4.78	7.01	3.91	0.47	2.98	2.90	0.88	5.43
Apr	*	*	*	*	*	*	*	*	*	*	*
May	8.31	7.89	13.6	8.44	9.46	7.13	0.33	1.54	1.38	1.09	13.0
June	5.91	5.80	5.58	2.53	6.63	1.83	0.33	0.47	0.43	0.29	8.20
July	13.9	13.8	15.9	4.04	16.7	1.94	0.33	0.48	0.44	0.30	23.1
Aug	4.26	4.10	5.14	3.61	4.68	2.68	0.13	0.58	0.52	0.35	6.49
Sept	5.17	5.05	6.20	2.74	4.45	1.91	0.09	0.30	0.26	0.23	10.9
Oct	1.58	1.53	2.60	1.04	1.91	0.73	0.07	0.13	0.11	0.09	3.32
Nov	2.12	1.93	3.13	3.71	2.54	3.09	0.25	0.45	0.38	0.41	3.08
Dec	0.57	0.37	0.37	4.04	0.31	3.41	0.10	0.11	0.03	0.37	0.71
Annual	58.3	56.5	68.5	40.8	64.5	30.7	2.77	8.17	7.51	4.63	87.6

Data completeness (Monthly)

2006	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	10	10	10	10	10	10	10	10	10	10	10	10	10	50
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	0	0	0	0	0	0	0	0	0	0	0	0	0	100
May	68	68	68	68	68	68	68	68	68	68	68	68	68	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	86	86	86	86	86	86	86	86	86	86	86	86	86	100
Dec	75	75	75	75	75	75	75	75	75	75	75	75	75	100
Annual	83	83	83	83	83	83	83	83	83	83	83	83	83	96

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

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

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

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

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

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

Table 3.26 Monthly results

Site: Oki

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	58.6	25.7	27.5	583	15.7	515	14.9	23.0	11.3	64.2	28.7	4.54	10.1	79.1
Feb	68.5	28.0	22.5	732	18.5	671	16.3	19.9	5.4	76.8	37.4	4.43	12.6	82.5
Mar	70.4	40.2	47.6	556	34.6	502	14.7	37.4	26.5	61.8	33.6	4.47	10.3	70.5
Apr	32.4	21.5	21.6	211	17.6	182	5.5	24.8	20.8	23.6	5.9	5.23	3.89	108.7
May	12.7	11.7	12.8	18.1	9.1	15.9	1.2	9.9	9.5	2.9	9.0	5.05	1.10	240.8
June	27.0	24.5	32.5	47.1	40.8	42.3	6.6	12.2	11.3	7.7	12.9	4.89	2.08	33.8
July	4.8	3.9	5.6	16.4	3.4	15.2	<1.0	1.3	1.0	2.0	8.2	5.08	0.79	446.0
Aug	18.6	15.3	17.6	54.3	13.8	54.7	2.0	3.4	2.2	6.8	25.9	4.59	2.49	19.9
Sept	19.7	9.5	10.6	193	4.7	169	4.6	4.7	1.2	19.5	18.4	4.74	2.49	73.7
Oct	32.6	17.8	27.8	277	11.4	245	7.5	1.0	0.5	29.9	33.4	4.48	5.52	43.5
Nov	47.9	21.9	27.4	480	19.6	433	13.6	9.5	2.8	49.0	31.9	4.50	8.33	117.1
Dec	92.1	34.6	42.8	1090	27.0	953	23.6	26.6	6.0	109	56.1	4.25	19.6	80.7
Annual	29.5	15.8	18.2	253	12.8	225	6.6	11.4	6.9	26.9	18.7	4.73	4.77	1396.3
Max.	595	336	321	11500	762	9830	249	279	275	1110	214	7.12	132	
Min.	1.2	<1.0	<1.0	4.7	<1.0	3.1	<1.0	<0.2	<0.2	0.6	<0.1	3.67	0.33	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	4.64	2.03	2.17	46.1	1.24	40.7	1.18	1.82	0.89	5.08	2.27
Feb	5.65	2.31	1.86	60.5	1.52	55.4	1.35	1.64	0.45	6.34	3.09
Mar	4.96	2.83	3.36	39.2	2.44	35.4	1.03	2.63	1.87	4.36	2.37
Apr	3.53	2.33	2.34	22.9	1.92	19.8	0.60	2.69	2.26	2.57	0.64
May	3.05	2.82	3.08	4.35	2.19	3.84	0.29	2.38	2.29	0.70	2.17
June	0.91	0.83	1.10	1.59	1.38	1.43	0.22	0.41	0.38	0.26	0.44
July	2.13	1.72	2.49	7.29	1.53	6.77	0.30	0.57	0.43	0.89	3.68
Aug	0.37	0.30	0.35	1.08	0.27	1.09	0.04	0.07	0.04	0.14	0.52
Sept	1.45	0.70	0.78	14.2	0.35	12.5	0.34	0.35	0.09	1.44	1.35
Oct	1.42	0.77	1.21	12.1	0.50	10.7	0.32	0.04	0.02	1.30	1.46
Nov	5.61	2.56	3.20	56.2	2.30	50.6	1.59	1.11	0.33	5.73	3.74
Dec	7.43	2.79	3.45	88.0	2.18	76.9	1.90	2.15	0.48	8.79	4.53
Annual	41.1	22.0	25.4	353	17.8	315	9.16	15.9	9.57	37.6	26.1

Data completeness (Monthly)

2006	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	98	99	98	99	98	99	99	98	99	98	98	98	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	99	99	99	99	99	99	99	99	99	99	98	98	98	100
May	100	100	100	100	100	100	100	100	100	100	98	98	98	100
June	100	100	100	100	100	100	100	100	100	100	95	95	95	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	98	98	98	98	98	98	98	98	98	98	97	97	97	100
Oct	91	91	91	91	91	91	91	91	91	91	90	90	90	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	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 3.27 Monthly results

Site: Banryu

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	22.4	12.0	14.0	194	6.5	172	4.1	22.2	18.4	21.0	7.3	5.14	3.71	81.5
Feb	39.7	31.2	26.6	164	26.2	140	4.5	9.3	6.3	17.1	42.5	4.37	4.76	67.0
Mar	76.5	65.8	66.9	198	53.6	177	8.4	58.1	54.3	24.4	26.8	4.57	6.47	141.0
Apr	18.4	14.6	13.3	73.5	11.5	62.5	2.2	11.1	9.8	8.4	9.2	5.04	2.03	137.5
May	11.1	10.6	12.9	10.6	8.9	8.9	<1.0	4.1	3.9	1.7	12.7	4.90	1.11	171.0
June	6.0	5.9	6.8	3.2	6.8	2.0	<1.0	0.4	0.4	<0.4	9.4	5.03	0.67	325.5
July	14.1	13.1	11.0	18.2	11.7	16.5	<1.0	3.0	2.7	2.3	20.1	4.70	1.49	389.0
Aug	12.7	11.6	15.9	18.6	7.5	17.0	<1.0	2.7	2.4	2.1	21.2	4.67	1.55	296.5
Sept	16.6	11.3	12.6	98.0	7.6	87.1	1.8	2.2	0.4	9.5	22.4	4.65	2.70	150.2
Oct	20.3	11.0	11.2	180	9.1	153	3.4	4.1	0.8	17.0	17.8	4.75	3.46	52.5
Nov	57.6	40.1	46.2	336	29.7	290	9.0	23.7	17.5	35.2	41.3	4.38	7.43	96.0
Dec	60.1	47.7	71.6	236	50.9	205	7.6	15.9	11.4	25.8	76.3	4.12	7.81	52.0
Annual	22.0	18.0	19.5	76.0	14.9	66.4	2.2	9.5	8.1	8.3	20.5	4.69	2.54	1959.7
Max.	730	693	529	1030	356	947	45.8	779	765	108	170	6.55	38.1	
Min.	3.1	3.0	3.3	1.8	1.7	1.2	<1.0	<0.2	<0.2	<0.4	0.3	3.77	0.38	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	1.82	0.98	1.14	15.8	0.53	14.0	0.34	1.81	1.50	1.71	0.60
Feb	2.66	2.09	1.78	11.0	1.75	9.41	0.30	0.62	0.42	1.15	2.85
Mar	10.8	9.28	9.43	27.9	7.56	25.0	1.19	8.19	7.65	3.44	3.78
Apr	2.53	2.01	1.83	10.1	1.58	8.59	0.31	1.53	1.34	1.15	1.26
May	1.90	1.81	2.21	1.82	1.53	1.53	0.10	0.70	0.66	0.28	2.18
June	1.96	1.92	2.22	1.03	2.22	0.65	0.04	0.14	0.13	0.06	3.06
July	5.49	5.11	4.29	7.06	4.57	6.42	0.25	1.17	1.03	0.89	7.82
Aug	3.76	3.45	4.70	5.53	2.23	5.03	0.13	0.81	0.70	0.61	6.29
Sept	2.49	1.70	1.89	14.7	1.14	13.1	0.28	0.33	0.06	1.42	3.37
Oct	1.06	0.58	0.59	9.45	0.48	8.03	0.18	0.22	0.04	0.89	0.94
Nov	5.53	3.85	4.44	32.2	2.85	27.9	0.87	2.28	1.68	3.37	3.96
Dec	3.12	2.48	3.72	12.3	2.65	10.7	0.40	0.82	0.59	1.34	3.97
Annual	43.1	35.3	38.3	149	29.1	130	4.37	18.6	15.8	16.3	40.1

Data completeness (Monthly)

2006	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	97	97	97	97	97	97	97	97	97	97	97	97	97	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

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

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

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

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

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

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

Table 3.28 Monthly results

Site: Yusuhara

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	10.4	9.5	10.0	16.3	5.4	13.3	<1.0	3.9	3.7	2.1	21.8	4.66	1.38	78.7
Feb	14.2	12.2	11.2	36.8	7.6	32.0	1.1	2.2	1.5	3.9	26.7	4.57	1.82	114.5
Mar	29.0	27.5	24.9	28.9	26.2	24.8	2.4	14.1	13.6	4.5	23.0	4.64	2.32	107.5
Apr	14.4	13.8	9.7	11.8	13.0	10.0	1.1	7.8	7.6	2.2	12.1	4.92	1.13	426.0
May	6.4	5.9	5.1	9.1	4.9	7.7	<1.0	1.6	1.4	1.2	11.1	4.96	0.79	383.7
June	5.7	5.6	4.8	3.2	5.2	2.6	<1.0	0.9	0.8	<0.4	9.1	5.04	0.63	476.9
July	8.4	8.2	5.1	3.4	6.9	2.8	<1.0	0.8	0.7	<0.4	14.3	4.84	0.83	426.3
Aug	11.0	9.9	7.9	20.1	7.9	18.1	<1.0	1.2	0.8	2.2	15.8	4.80	1.25	539.9
Sept	7.3	6.1	4.7	24.6	2.8	19.9	<1.0	1.1	0.7	2.4	12.0	4.92	1.00	387.4
Oct	10.9	10.5	9.3	6.4	5.1	5.4	<1.0	0.9	0.8	0.8	20.5	4.69	1.29	39.5
Nov	8.1	7.4	8.8	16.0	3.5	11.5	<1.0	1.9	1.7	1.5	15.4	4.81	1.12	99.0
Dec	18.6	17.4	15.5	25.4	11.5	21.0	1.1	2.4	2.0	2.5	34.2	4.47	2.13	81.0
Annual	10.1	9.4	7.6	14.0	7.5	11.9	<1.0	2.6	2.4	1.7	14.4	4.84	1.08	3160.4
Max.	192	188	158	1380	194	1060	143	147	146	129	209	6.06	19.6	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.2	<0.2	<0.4	0.9	3.68	0.14	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.81	0.75	0.79	1.28	0.43	1.05	0.04	0.31	0.29	0.17	1.72
Feb	1.62	1.40	1.29	4.21	0.87	3.66	0.12	0.25	0.17	0.45	3.06
Mar	3.11	2.95	2.67	3.11	2.81	2.66	0.26	1.52	1.46	0.49	2.47
Apr	6.15	5.90	4.13	5.02	5.53	4.26	0.46	3.34	3.25	0.93	5.14
May	2.46	2.28	1.96	3.48	1.89	2.96	0.29	0.60	0.53	0.44	4.25
June	2.72	2.65	2.30	1.53	2.49	1.22	0.15	0.41	0.39	0.17	4.36
July	3.57	3.49	2.16	1.44	2.93	1.21	0.13	0.33	0.31	0.12	6.10
Aug	5.95	5.36	4.28	10.9	4.26	9.76	0.34	0.66	0.45	1.18	8.53
Sept	2.81	2.35	1.83	9.52	1.10	7.71	0.21	0.42	0.26	0.92	4.65
Oct	0.43	0.42	0.37	0.25	0.20	0.22	0.02	0.03	0.03	0.03	0.81
Nov	0.80	0.73	0.87	1.59	0.35	1.14	0.04	0.19	0.16	0.15	1.53
Dec	1.51	1.41	1.26	2.06	0.93	1.70	0.09	0.20	0.16	0.20	2.77
Annual	31.9	29.7	23.9	44.4	23.8	37.5	2.15	8.25	7.44	5.25	45.4

Data completeness (Monthly)

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Feb	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	97
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

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

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

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

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

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

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

Table 3.29 Monthly results

Site: Hedo

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	41.4	7.3	6.1	644	8.1	566	12.4	15.1	2.9	63.5	8.3	5.08	9.00	137.0
Feb	31.1	9.4	11.0	411	10.7	362	8.1	9.3	1.5	41.8	14.6	4.83	4.53	83.0
Mar	21.3	10.0	11.5	217	15.0	188	5.1	6.6	2.5	22.0	10.4	4.98	3.51	185.0
Apr	14.8	9.4	10.0	103	11.4	89.9	3.0	5.7	3.7	10.6	11.8	4.93	2.19	193.9
May	12.9	9.1	9.7	73.7	10.2	62.7	2.1	2.8	1.5	7.4	15.2	4.82	1.85	233.3
June	9.7	4.4	4.7	103	4.8	88.9	2.2	2.7	0.8	10.1	5.9	5.23	1.93	374.2
July	27.2	4.3	4.8	433	6.6	380	8.8	10.7	2.5	44.4	6.3	5.20	6.75	33.5
Aug	6.1	2.4	3.2	70.8	4.4	61.2	1.8	2.3	1.0	7.3	3.3	5.49	1.32	128.0
Sept	20.4	7.6	7.5	246	7.7	212	5.3	5.6	1.0	27.7	12.1	4.92	4.05	114.5
Oct	22.7	14.0	16.7	163	9.9	145	4.1	4.6	1.4	17.5	24.0	4.62	3.58	47.0
Nov	13.9	7.2	7.8	128	6.9	111	3.9	12.8	10.5	12.7	8.7	5.06	2.57	136.9
Dec	35.9	12.7	10.0	446	8.8	385	8.6	35.7	27.4	43.7	11.4	4.94	7.31	197.0
Annual	19.2	7.9	8.1	217	8.6	189	4.7	9.2	5.1	21.8	10.1	4.99	3.58	1863.3
Max.	1360	141	171	25700	263	22300	499	499	202	3220	200	7.39	310	
Min.	3.0	<1.0	<1.0	13.1	<1.0	11.1	<1.0	0.5	<0.2	1.3	<0.1	3.70	0.56	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	5.67	0.99	0.83	88.2	1.11	77.6	1.69	2.07	0.40	8.71	1.14
Feb	2.58	0.78	0.91	34.1	0.89	30.0	0.67	0.77	0.12	3.47	1.21
Mar	3.94	1.84	2.12	40.1	2.78	34.8	0.95	1.22	0.46	4.07	1.93
Apr	2.86	1.81	1.94	20.0	2.22	17.4	0.58	1.10	0.72	2.05	2.29
May	3.02	2.13	2.26	17.2	2.38	14.6	0.49	0.66	0.34	1.73	3.55
June	3.64	1.63	1.77	38.5	1.78	33.3	0.82	0.99	0.28	3.80	2.22
July	0.91	0.14	0.16	14.5	0.22	12.7	0.29	0.36	0.08	1.49	0.21
Aug	0.78	0.31	0.41	9.07	0.56	7.83	0.23	0.30	0.13	0.94	0.42
Sept	2.34	0.88	0.86	28.2	0.88	24.3	0.61	0.64	0.12	3.18	1.39
Oct	1.07	0.66	0.78	7.66	0.47	6.81	0.19	0.21	0.07	0.82	1.13
Nov	1.90	0.98	1.06	17.5	0.94	15.1	0.53	1.75	1.43	1.73	1.20
Dec	7.07	2.50	1.97	87.9	1.73	75.9	1.69	7.04	5.40	8.61	2.25
Annual	35.8	14.7	15.1	404	15.9	351	8.77	17.2	9.59	40.7	18.9

Data completeness (Monthly)

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	100	100	100	100	100	100	100	100	100	100	98	98	98	100
Feb	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Mar	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Apr	99	99	99	99	99	99	99	99	99	99	99	99	99	100
May	97	97	97	97	97	97	97	97	97	97	96	96	96	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	98	98	98	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	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 3.30 Monthly results

Site: Ogasawara

Country: Japan

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	19.2	11.1	8.1	153	8.8	133	3.7	5.3	2.4	14.7	21.3	4.67	3.37	67.1
Feb	4.2	1.4	4.4	53.5	2.5	46.7	1.3	1.7	0.7	5.4	5.4	5.27	1.12	131.5
Mar	12.4	8.0	8.9	84.6	10.3	72.2	2.4	3.6	2.0	8.6	17.7	4.75	2.15	104.5
Apr	12.2	10.1	8.5	40.6	11.8	35.9	1.6	3.7	3.0	4.6	13.1	4.88	1.47	167.2
May	10.5	8.6	4.3	35.3	2.7	30.7	1.0	2.2	1.5	3.4	16.6	4.78	1.43	48.0
June	5.1	1.7	2.9	68.0	1.3	58.4	1.8	1.8	0.5	6.0	7.8	5.11	1.29	139.0
July	4.3	2.7	3.5	28.6	2.8	26.0	<1.0	1.4	0.8	2.9	7.4	5.13	0.93	24.0
Aug	8.6	1.4	1.7	146	<1.0	127	2.6	3.5	0.7	13.8	7.3	5.14	2.33	246.0
Sept	3.9	1.6	3.9	44.2	2.1	38.4	<1.0	2.0	1.2	4.8	6.8	5.17	1.11	93.5
Oct	14.9	1.3	<1.0	278	3.3	241	6.0	10.4	5.2	28.8	2.9	5.54	1.51	297.0
Nov	14.3	<1.0	3.4	259	4.8	225	5.0	5.4	0.5	24.8	4.8	5.32	3.86	104.5
Dec	14.4	2.8	5.3	227	3.5	197	4.0	4.8	0.7	20.8	11.2	4.95	3.66	162.5
Annual	10.2	4.2	4.8	119	4.6	103	2.5	3.6	1.4	11.4	10.1	4.99	2.14	1584.9
Max.	223	86.6	99.9	4750	118	4090	111	174	85.7	481	97.7	5.74	12.9	
Min.	2.8	<1.0	<1.0	13.5	<1.0	12.8	<1.0	0.5	<0.2	1.4	1.8	4.01	0.61	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	1.29	0.75	0.54	10.3	0.59	8.93	0.25	0.35	0.16	0.99	1.43
Feb	0.55	0.19	0.58	7.04	0.32	6.14	0.17	0.22	0.09	0.71	0.70
Mar	1.29	0.84	0.93	8.84	1.08	7.54	0.25	0.37	0.21	0.90	1.85
Apr	2.04	1.68	1.43	6.79	1.97	6.00	0.27	0.63	0.50	0.77	2.18
May	0.50	0.41	0.21	1.70	0.13	1.47	0.05	0.10	0.07	0.16	0.80
June	0.71	0.24	0.40	9.45	0.19	8.11	0.25	0.25	0.07	0.84	1.08
July	0.10	0.07	0.08	0.69	0.07	0.63	0.02	0.03	0.02	0.07	0.18
Aug	2.12	0.34	0.43	35.9	0.22	31.2	0.64	0.86	0.18	3.40	1.80
Sept	0.37	0.15	0.37	4.14	0.19	3.59	0.06	0.19	0.11	0.45	0.64
Oct	4.42	0.39	0.26	82.6	0.97	71.4	1.79	3.09	1.55	8.57	0.85
Nov	1.49	0.07	0.35	27.1	0.50	23.5	0.52	0.56	0.05	2.59	0.50
Dec	2.33	0.45	0.86	36.9	0.57	32.0	0.65	0.79	0.11	3.38	1.83
Annual	16.2	6.58	7.57	188	7.27	163	4.01	5.68	2.17	18.1	16.1

Data completeness (Monthly)

2006	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	98	98	98	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	98	98	98	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	99	99	99	100
June	100	100	100	100	100	100	100	100	100	100	99	99	99	100
July	100	100	100	100	100	100	100	100	100	100	98	98	98	100
Aug	97	97	97	97	97	97	97	97	97	97	100	100	100	100
Sept	49	49	49	49	49	49	49	49	49	49	48	48	48	77
Oct	12	12	12	12	12	12	12	12	12	12	12	12	12	81
Nov	66	66	66	66	66	66	66	66	66	66	66	66	66	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	78	78	78	78	78	78	78	78	78	78	78	78	78	96

[--] 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: Vientian

Country: Lao PDR

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	*	*	*	*	*	*	*	*	*	*	0.7	6.13	1.57	11.5
Apr	*	*	*	*	*	*	*	*	*	*	0.4	6.36	1.35	20.2
May	2.3	1.9	7.4	6.1	9.4	6.4	3.9	8.0	7.8	1.6	0.2	6.65	0.86	131.1
June	2.4	1.6	9.2	5.2	14.4	14.2	7.5	11.9	11.6	10.7	0.5	6.28	0.80	100.6
July	3.7	3.4	5.8	4.2	5.6	5.1	2.1	8.2	8.1	1.9	0.3	6.60	0.59	324.7
Aug	6.4	5.9	8.2	4.9	3.8	7.7	3.6	7.8	7.6	3.7	0.4	6.43	0.82	76.4
Sept	12.3	12.1	8.7	3.7	13.7	3.6	2.7	7.8	7.8	2.2	0.4	6.36	1.11	17.2
Oct	*	*	*	*	*	*	*	*	*	*	0.4	6.36	1.24	18.0
Nov	*	*	*	*	*	*	*	*	*	*	0.6	6.20	0.76	9.2
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	3.5	3.0	6.9	4.8	7.7	7.1	3.5	8.7	8.6	3.5	0.3	6.49	0.76	708.9
Max.	12.3	12.1	13.1	9.3	22.4	21.2	10.4	13.6	13.3	10.9	1.0	7.10	3.43	
Min.	<1.0	<1.0	3.8	2.3	2.4	2.4	1.7	6.5	6.4	1.5	<0.1	6.01	0.22	

Wet deposition (Monthly)

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

2006	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	*	*	*	*	*	*	*	*	*	*	<0.01
Apr	*	*	*	*	*	*	*	*	*	*	<0.01
May	0.30	0.25	0.97	0.80	1.23	0.85	0.51	1.04	1.03	0.21	0.03
June	0.25	0.16	0.92	0.52	1.45	1.42	0.75	1.20	1.17	1.07	0.05
July	1.19	1.09	1.90	1.35	1.82	1.64	0.69	2.66	2.62	0.62	0.08
Aug	0.49	0.45	0.63	0.37	0.29	0.59	0.27	0.59	0.58	0.29	0.03
Sept	0.21	0.21	0.15	0.06	0.24	0.06	0.05	0.13	0.13	0.04	<0.01
Oct	*	*	*	*	*	*	*	*	*	*	<0.01
Nov	*	*	*	*	*	*	*	*	*	*	<0.01
Dec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	2.45	2.15	4.92	3.38	5.47	5.04	2.49	6.20	6.09	2.47	0.23

Data completeness (Monthly)

2006	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	100	100	100	100
Apr	0	0	0	0	0	0	0	0	0	0	100	100	100	100
May	81	81	81	81	81	81	81	81	81	81	100	100	100	100
June	91	91	91	91	91	91	91	91	91	91	100	100	100	100
July	90	90	90	90	90	90	90	90	90	90	100	100	100	100
Aug	61	61	61	61	61	61	61	61	61	61	100	100	100	100
Sept	13	13	13	13	13	13	13	13	13	13	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	83	83	83	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Annual	76	76	76	76	76	76	76	76	76	76	100	100	100	100

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

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

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

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

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

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

Table 3.32 Monthly results

Site: Petaling Jaya

Country: Malaysia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	17.0	16.6	23.4	7.7	16.2	8.0	1.7	5.4	5.3	0.5	27.5	4.56	1.41	190.4
Feb	16.5	16.2	31.9	6.9	14.7	4.9	<1.0	4.5	4.4	<0.4	33.9	4.47	1.72	318.6
Mar	28.6	28.1	45.1	9.7	32.1	7.2	3.2	7.4	7.3	2.3	41.3	4.38	2.41	428.0
Apr	17.8	17.7	30.9	4.9	13.5	1.9	<1.0	2.3	2.3	0.4	44.6	4.35	1.95	536.6
May	11.2	11.1	17.9	4.2	7.5	2.2	1.6	2.2	2.2	1.0	24.7	4.61	1.14	386.8
June	19.1	18.8	37.7	8.4	17.1	4.9	1.5	6.3	6.2	1.0	41.7	4.38	2.02	326.2
July	19.6	19.3	27.8	7.8	28.2	5.6	1.6	5.9	5.8	0.7	19.3	4.71	1.47	131.0
Aug	23.9	23.4	39.2	11.7	43.9	9.4	2.1	5.9	5.7	1.6	15.4	4.81	1.75	124.0
Sept	18.6	18.4	22.0	6.3	21.3	3.8	1.5	2.6	2.5	0.5	35.5	4.45	1.71	421.6
Oct	25.0	24.6	38.7	11.5	67.5	6.7	1.9	2.3	2.1	0.4	48.0	4.32	2.46	275.0
Nov	25.6	25.5	22.7	4.3	21.6	1.6	1.1	2.3	2.3	<0.4	43.4	4.36	1.61	656.6
Dec	20.7	20.4	35.2	9.2	24.3	5.5	1.3	3.3	3.2	<0.4	42.2	4.37	1.83	214.4
Annual	20.6	20.3	30.0	6.9	23.3	4.3	1.6	3.8	3.7	0.7	37.8	4.42	1.81	4009.2
Max.	70.7	69.5	100	21.1	97.5	20.4	5.3	23.1	22.7	4.6	87.1	5.47	5.25	
Min.	<1.0	<1.0	5.5	2.4	5.0	<1.0	<1.0	<0.2	<0.2	<0.4	3.4	4.06	0.56	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	3.24	3.15	4.45	1.46	3.09	1.52	0.33	1.03	1.00	0.09	5.24
Feb	5.26	5.17	10.2	2.19	4.69	1.56	0.31	1.43	1.40	0.11	10.8
Mar	12.2	12.0	19.3	4.16	13.7	3.07	1.38	3.18	3.12	1.00	17.7
Apr	9.56	9.50	16.6	2.60	7.22	1.02	0.47	1.25	1.23	0.23	23.9
May	4.34	4.29	6.91	1.61	2.90	0.85	0.62	0.85	0.84	0.40	9.56
June	6.23	6.14	12.3	2.75	5.56	1.59	0.50	2.05	2.02	0.33	13.6
July	2.57	2.53	3.64	1.02	3.70	0.73	0.21	0.78	0.76	0.10	2.53
Aug	2.97	2.90	4.86	1.45	5.45	1.16	0.26	0.73	0.71	0.19	1.91
Sept	7.86	7.76	9.27	2.64	8.97	1.58	0.63	1.10	1.07	0.21	15.0
Oct	6.88	6.77	10.6	3.17	18.6	1.83	0.53	0.62	0.58	0.12	13.2
Nov	16.8	16.7	14.9	2.81	14.2	1.07	0.69	1.54	1.51	0.00	28.5
Dec	4.44	4.37	7.54	1.97	5.22	1.19	0.29	0.71	0.68	0.06	9.05
Annual	82.5	81.4	120	27.8	93.3	17.1	6.23	15.2	14.9	2.85	151

Data completeness (Monthly)

2006	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	93	93	93	100
Feb	95	95	95	95	95	95	95	95	95	95	95	95	95	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	99	99	99	99	99	99	99	99	99	99	99	99	99	100
July	95	95	95	95	95	95	95	95	95	95	95	95	95	100
Aug	96	96	96	96	96	96	96	96	96	96	96	96	96	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 3.33 Monthly results

Site: Tanah Rata

Country: Malaysia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	1.5	1.4	2.2	1.6	1.8	1.6	<1.0	2.4	2.4	<0.4	7.3	5.14	0.29	202.6
Feb	1.7	1.6	2.8	1.4	1.3	1.2	<1.0	0.2	0.2	<0.4	6.0	5.22	0.26	125.0
Mar	5.1	5.0	7.1	2.5	3.6	1.2	<1.0	1.9	1.9	<0.4	11.4	4.94	0.58	208.2
Apr	5.0	4.9	4.8	1.7	1.9	<1.0	<1.0	1.2	1.2	<0.4	15.2	4.82	0.67	229.4
May	4.5	4.4	4.9	1.9	<1.0	1.5	1.6	2.1	2.1	0.8	10.3	4.99	0.45	355.9
June	3.7	3.7	4.7	1.7	<1.0	<1.0	<1.0	0.6	0.6	<0.4	12.9	4.89	0.48	209.8
July	5.5	5.4	9.0	1.5	5.3	1.9	<1.0	2.5	2.5	<0.4	14.0	4.85	0.68	150.4
Aug	14.8	14.5	19.7	6.2	28.5	3.6	1.5	1.1	1.0	<0.4	17.2	4.76	1.22	111.0
Sept	5.6	5.5	8.6	2.7	4.7	2.1	<1.0	1.1	1.0	<0.4	13.9	4.86	0.67	365.0
Oct	4.6	4.6	4.2	1.8	7.1	<1.0	<1.0	0.3	0.3	<0.4	11.4	4.94	0.51	295.4
Nov	3.2	3.2	1.8	1.2	1.2	<1.0	<1.0	0.3	0.2	<0.4	8.3	5.08	0.32	332.2
Dec	2.4	2.3	2.8	3.4	1.5	2.2	<1.0	0.3	0.3	<0.4	8.8	5.06	0.35	200.0
Annual	4.4	4.3	5.3	2.1	3.5	1.4	<1.0	1.1	1.1	<0.4	11.3	4.95	0.51	2784.9
Max.	16.5	16.2	21.1	6.8	31.7	7.5	3.0	16.7	16.5	2.3	26.3	5.49	1.49	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	3.2	4.58	0.14	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.31	0.29	0.45	0.32	0.37	0.33	0.09	0.49	0.48	0.01	1.47
Feb	0.21	0.20	0.36	0.17	0.17	0.15	0.03	0.03	0.03	0.00	0.75
Mar	1.06	1.05	1.49	0.53	0.76	0.24	0.13	0.40	0.39	0.06	2.36
Apr	1.14	1.13	1.10	0.40	0.44	0.19	0.13	0.28	0.28	0.00	3.49
May	1.62	1.58	1.75	0.67	0.10	0.53	0.57	0.74	0.73	0.28	3.65
June	0.79	0.78	0.99	0.35	0.16	0.10	0.03	0.12	0.12	0.00	2.71
July	0.82	0.81	1.36	0.22	0.80	0.28	0.10	0.38	0.38	0.02	2.11
Aug	1.64	1.61	2.18	0.69	3.16	0.40	0.17	0.12	0.11	0.00	1.91
Sept	2.06	2.01	3.14	0.99	1.70	0.75	0.27	0.40	0.38	0.07	5.07
Oct	1.37	1.35	1.23	0.53	2.08	0.29	0.07	0.08	0.08	0.00	3.38
Nov	1.07	1.05	0.60	0.41	0.40	0.27	0.11	0.08	0.08	0.00	2.75
Dec	0.49	0.46	0.56	0.68	0.31	0.45	0.07	0.07	0.06	0.00	1.76
Annual	12.3	12.1	14.9	5.85	9.84	3.93	1.74	3.20	3.13	0.45	31.3

Data completeness (Monthly)

2006	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	93	93	93	100
Feb	96	96	96	96	96	96	96	96	96	96	96	96	96	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	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	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	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 3.34 Monthly results

Site: Danum Valley

Country: Malaysia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	4.5	3.4	<1.0	21.0	<1.0	17.7	1.8	5.9	5.6	1.8	11.7	4.93	0.79	287.4
Feb	1.2	<1.0	<1.0	8.3	<1.0	6.9	<1.0	1.7	1.5	0.7	3.7	5.43	0.28	764.8
Mar	2.2	1.9	1.2	7.3	<1.0	4.5	<1.0	0.3	0.2	<0.4	5.8	5.23	0.28	209.6
Apr	3.8	3.6	1.8	5.9	<1.0	2.9	<1.0	0.2	<0.2	<0.4	9.2	5.03	0.44	143.2
May	2.7	2.5	<1.0	2.3	<1.0	2.3	1.8	1.2	1.1	<0.4	7.0	5.16	0.36	184.5
June	1.5	1.4	<1.0	2.1	<1.0	1.1	<1.0	0.4	0.4	<0.4	5.0	5.30	0.20	114.1
July	3.0	2.8	<1.0	4.3	<1.0	3.6	1.3	0.7	0.6	<0.4	10.0	5.00	0.43	138.9
Aug	2.0	1.9	<1.0	1.2	<1.0	1.5	<1.0	<0.2	<0.2	<0.4	7.5	5.13	0.30	186.6
Sept	3.1	3.0	2.2	3.3	2.2	1.7	<1.0	0.5	0.5	<0.4	9.5	5.02	0.44	175.3
Oct	10.1	10.0	5.4	3.4	14.2	2.0	<1.0	<0.2	<0.2	<0.4	21.0	4.68	0.90	354.8
Nov	5.6	5.2	4.7	5.5	<1.0	5.3	1.2	0.2	<0.2	<0.4	16.0	4.80	0.73	143.2
Dec	2.4	2.0	1.6	6.9	2.9	5.5	1.5	<0.2	<0.2	<0.4	6.8	5.17	0.39	302.9
Annual	3.4	3.1	1.4	7.2	2.0	5.6	1.0	1.3	1.2	0.5	8.9	5.05	0.46	3005.3
Max.	12.3	12.0	8.7	42.5	16.3	36.3	5.0	28.6	28.0	3.7	31.6	6.06	1.40	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.9	4.50	0.13	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	1.29	0.99	0.00	6.04	0.00	5.10	0.53	1.71	1.60	0.51	3.36
Feb	0.94	0.62	0.00	6.34	0.00	5.31	0.33	1.30	1.18	0.56	2.84
Mar	0.45	0.40	0.25	1.54	0.04	0.94	0.10	0.06	0.05	0.04	1.22
Apr	0.54	0.52	0.26	0.85	0.00	0.41	0.12	0.03	0.02	0.05	1.32
May	0.49	0.46	0.08	0.43	0.07	0.42	0.34	0.22	0.21	0.06	1.28
June	0.17	0.16	0.08	0.24	0.00	0.13	0.08	0.05	0.05	0.00	0.57
July	0.41	0.38	0.10	0.59	0.00	0.50	0.17	0.10	0.09	0.03	1.39
Aug	0.37	0.36	0.15	0.22	0.09	0.28	0.17	0.00	0.00	0.05	1.39
Sept	0.54	0.52	0.39	0.57	0.39	0.29	0.12	0.09	0.08	0.03	1.66
Oct	3.58	3.54	1.90	1.22	5.03	0.72	0.32	0.04	0.03	0.00	7.45
Nov	0.80	0.75	0.67	0.79	0.10	0.75	0.17	0.03	0.02	0.01	2.29
Dec	0.72	0.62	0.48	2.10	0.89	1.67	0.46	0.05	0.04	0.07	2.05
Annual	10.2	9.23	4.24	21.5	6.15	16.9	3.05	3.79	3.49	1.45	26.8

Data completeness (Monthly)

2006	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	75	75	75	75	75	75	75	75	75	75	75	75	75	100
Mar	100	100	100	100	100	100	100	100	100	100	91	91	91	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	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	79	79	79	79	79	79	79	79	79	79	79	79	79	100
Sept	67	67	67	67	67	67	67	67	67	67	67	67	67	100
Oct	79	79	79	79	79	79	79	79	79	79	79	79	79	100
Nov	83	83	83	83	83	83	83	83	83	83	83	83	83	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	87	87	87	87	87	87	87	87	87	87	86	86	86	100

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

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

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

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

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

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

Table 3.35 Monthly results

Site: Ulaanbaatar

Country: Mongolia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	41.3	39.5	19.0	18.8	36.9	29.1	11.1	112	112	11.9	0.1	6.94	3.62	3.2
May	15.9	15.3	9.8	5.6	44.8	9.3	5.9	25.5	25.3	4.0	0.2	6.80	1.35	41.8
June	17.9	17.5	20.8	9.1	68.1	6.9	3.8	63.9	63.7	4.8	0.2	6.79	2.31	16.9
July	14.9	14.6	18.2	6.5	42.1	5.2	2.4	20.6	20.5	2.3	0.6	6.25	1.24	73.7
Aug	21.5	20.9	17.5	7.7	45.8	9.9	6.5	68.8	68.6	5.4	0.2	6.63	2.29	30.4
Sept	106	105	43.7	14.9	128	14.3	13.3	132	131	10.2	0.5	6.33	4.77	16.8
Oct	29.2	28.5	13.9	9.0	59.5	12.1	5.8	58.7	58.4	6.0	0.1	6.86	2.61	5.1
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	25.4	24.9	18.6	7.8	53.7	8.4	5.2	45.9	45.7	4.4	0.4	6.45	1.92	187.9
Max.	147	142	96.9	84.3	199	96.6	38.9	348	346	30.0	4.4	7.66	11.6	
Min.	7.2	7.0	3.9	2.8	14.4	<1.0	1.5	3.5	3.2	0.4	<0.1	5.36	0.61	

Wet deposition (Monthly)

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

2006	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	0.13	0.13	0.06	0.06	0.12	0.09	0.04	0.36	0.35	0.04	<0.01
May	0.66	0.64	0.41	0.23	1.87	0.39	0.24	1.07	1.06	0.17	<0.01
June	0.30	0.30	0.35	0.15	1.15	0.12	0.06	1.08	1.08	0.08	<0.01
July	1.10	1.07	1.34	0.48	3.10	0.39	0.18	1.52	1.51	0.17	0.04
Aug	0.65	0.63	0.53	0.23	1.39	0.30	0.20	2.09	2.08	0.16	<0.01
Sept	1.79	1.77	0.74	0.25	2.15	0.24	0.22	2.22	2.21	0.17	<0.01
Oct	0.15	0.15	0.07	0.05	0.30	0.06	0.03	0.30	0.30	0.03	<0.01
Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	4.78	4.68	3.50	1.46	10.1	1.58	0.97	8.63	8.59	0.83	0.07

Data completeness (Monthly)

2006	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	98	98	98	98	98	98	98	98	98	98	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 3.36 Monthly results

Site: Terelj

Country: Mongolia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	21.4	20.7	14.8	13.5	20.5	11.7	9.0	30.7	30.4	3.7	1.2	5.92	1.41	1.7
Feb	57.6	55.1	14.4	22.6	78.3	41.4	26.8	112	111	14.1	0.4	6.38	4.00	2.9
Mar	39.8	37.2	22.5	18.8	52.5	42.3	16.9	99.0	98.1	18.5	0.2	6.77	2.92	1.9
Apr	14.5	13.9	10.9	7.7	30.5	10.6	7.2	36.7	36.5	5.0	0.4	6.37	1.61	15.3
May	15.6	14.3	11.2	10.6	42.5	22.0	9.9	42.8	42.3	8.4	0.2	6.65	1.96	49.2
June	11.6	11.1	12.5	6.4	45.7	8.2	6.9	35.4	35.2	5.4	0.4	6.40	1.72	16.0
July	8.4	8.1	10.0	6.8	42.2	4.4	5.6	4.8	4.7	1.8	2.9	5.54	0.97	66.5
Aug	22.2	21.4	21.6	9.6	77.4	12.3	11.8	9.5	9.2	2.9	0.6	6.21	1.67	27.5
Sept	84.9	84.2	32.1	11.3	101	10.9	10.8	26.4	26.2	5.0	45.7	4.34	4.64	27.1
Oct	20.8	18.9	24.8	9.2	41.3	9.9	6.0	18.9	18.7	3.7	0.3	6.48	1.44	5.9
Nov	88.6	79.6	24.7	75.3	228	149	109	170	167	37.8	0.2	6.80	8.85	0.6
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	23.8	23.0	15.5	9.3	54.6	12.5	9.0	24.8	24.5	4.8	6.9	5.16	1.95	214.6
Max.	200	200	70.2	75.3	249	149	109	208	208	37.8	158	7.32	12.4	
Min.	1.1	<1.0	2.1	2.8	4.4	<1.0	1.3	1.0	0.9	<0.4	<0.1	3.80	0.39	

Wet deposition (Monthly)

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

2006	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	0.03	0.02	0.03	0.02	0.02	0.05	0.05	<0.01	<0.01
Feb	0.17	0.16	0.04	0.07	0.23	0.12	0.08	0.33	0.33	0.04	<0.01
Mar	0.08	0.07	0.04	0.04	0.10	0.08	0.03	0.19	0.19	0.04	<0.01
Apr	0.22	0.21	0.17	0.12	0.47	0.16	0.11	0.56	0.56	0.08	<0.01
May	0.77	0.70	0.55	0.52	2.09	1.08	0.49	2.10	2.08	0.41	0.01
June	0.19	0.18	0.20	0.10	0.73	0.13	0.11	0.57	0.56	0.09	<0.01
July	0.56	0.54	0.67	0.46	2.81	0.29	0.37	0.32	0.32	0.12	0.19
Aug	0.61	0.59	0.59	0.26	2.12	0.34	0.32	0.26	0.25	0.08	0.02
Sept	2.30	2.28	0.87	0.31	2.75	0.30	0.29	0.72	0.71	0.13	1.24
Oct	0.12	0.11	0.15	0.05	0.24	0.06	0.04	0.11	0.11	0.02	<0.01
Nov	0.05	0.05	0.01	0.05	0.14	0.09	0.07	0.10	0.10	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	5.10	4.93	3.32	1.99	11.7	2.68	1.93	5.32	5.26	1.04	1.48

Data completeness (Monthly)

2006	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	96	100	100	96	96	96	96	96	96	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 3.37 Monthly results

Site: Metro Manila

Country: Philippines

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	27.5	26.6	20.5	18.2	34.3	15.3	5.8	18.3	18.0	2.7	4.1	5.39	1.12	57.5
Feb	73.0	66.6	35.4	84.3	111	105	40.6	84.1	81.8	25.3	0.1	6.88	8.22	9.6
Mar	21.8	20.2	9.0	31.0	113	26.4	68.3	64.4	63.8	14.1	<0.1	7.12	6.13	53.7
Apr	21.0	20.2	9.6	10.9	6.7	13.3	7.1	19.2	18.9	2.3	1.5	5.81	1.25	20.8
May	*	*	*	*	*	*	*	*	*	*	*	*	*	172.4
June	21.6	20.8	17.9	10.5	36.2	11.9	5.7	22.9	22.6	2.4	1.6	5.79	1.55	332.1
July	17.5	16.0	7.9	38.5	50.0	25.0	8.8	10.4	9.8	7.5	9.2	5.04	1.89	677.9
Aug	*	*	*	*	*	*	*	*	*	*	*	*	*	326.3
Sept	12.0	11.7	13.8	6.4	23.2	5.3	1.1	5.8	5.7	2.2	3.8	5.42	0.93	667.4
Oct	18.8	17.9	18.8	19.2	45.5	14.5	3.2	11.3	11.0	7.5	1.5	5.82	1.57	229.0
Nov	17.9	17.4	17.0	8.1	27.8	8.9	111	12.5	12.3	3.4	1.4	5.86	1.20	77.8
Dec	4.3	3.7	1.5	8.6	7.4	8.5	1.2	6.7	6.5	3.1	1.1	5.96	0.74	71.1
Annual	17.6	16.5	12.3	23.1	40.5	17.2	12.6	13.7	13.3	5.5	5.0	5.30	1.66	2695.6
Max.	90.8	80.4	60.0	158	158	171	231	98.8	96.9	33.5	25.7	7.56	11.1	
Min.	4.2	3.7	1.5	5.3	4.4	2.9	<1.0	4.4	4.2	0.5	<0.1	4.59	0.50	

Wet deposition (Monthly)

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

2006	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	1.53	1.18	1.04	1.97	0.88	0.33	1.05	1.04	0.16	0.24
Feb	0.70	0.64	0.34	0.81	1.07	1.01	0.39	0.81	0.79	0.24	<0.01
Mar	1.17	1.08	0.48	1.67	6.04	1.42	3.67	3.46	3.43	0.76	<0.01
Apr	0.44	0.42	0.20	0.23	0.14	0.28	0.15	0.40	0.39	0.05	0.03
May	*	*	*	*	*	*	*	*	*	*	*
June	7.16	6.92	5.94	3.50	12.0	3.96	1.89	7.60	7.52	0.79	0.54
July	11.9	10.8	5.36	26.1	33.9	16.9	5.97	7.04	6.68	5.06	6.21
Aug	*	*	*	*	*	*	*	*	*	*	*
Sept	8.03	7.82	9.19	4.26	15.5	3.52	0.74	3.85	3.78	1.44	2.51
Oct	4.30	4.10	4.31	4.40	10.4	3.33	0.73	2.59	2.52	1.72	0.34
Nov	1.39	1.35	1.33	0.63	2.16	0.69	8.62	0.97	0.95	0.27	0.11
Dec	0.30	0.27	0.10	0.61	0.53	0.60	0.09	0.48	0.47	0.22	0.08
Annual	47.4	44.6	33.1	62.3	109	46.3	34.0	36.8	35.8	14.7	13.5

Data completeness (Monthly)

2006	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	93	93	93	93	93	93	93	93	93	93	93	93	93	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	63	63	63	63	63	63	63	63	63	63	63	63	63	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	0	0	0	0	0	0	0	0	0	0	0	0	0	100
June	59	59	59	59	59	59	59	59	59	59	59	59	59	100
July	82	82	82	82	82	82	82	82	82	82	82	82	82	100
Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Sept	35	35	35	35	35	35	35	35	35	35	35	35	35	100
Oct	64	64	64	64	64	64	64	64	64	64	64	64	64	100
Nov	87	87	87	87	87	87	87	87	87	87	87	87	87	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	52	52	52	52	52	52	52	52	52	52	52	52	52	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)

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	5.6	4.3	4.3	24.6	10.3	21.7	<1.0	3.9	3.5	3.1	1.3	5.88	0.70	140.9
Feb	14.8	9.1	3.7	118	9.1	95.0	3.3	8.7	6.6	10.6	20.4	4.69	2.81	39.2
Mar	7.3	5.9	6.7	15.8	6.7	22.8	2.8	5.3	4.8	3.0	1.0	5.98	0.73	34.0
Apr	5.5	4.6	5.1	10.2	7.5	14.6	1.4	5.3	4.9	1.1	0.5	6.27	0.53	19.4
May	7.9	6.0	5.4	28.3	6.7	32.1	1.6	4.9	4.2	3.9	2.8	5.55	1.04	141.5
June	36.6	34.2	25.3	17.3	33.2	40.5	6.7	9.8	8.9	3.0	4.8	5.32	1.95	168.5
July	7.6	6.1	6.3	25.2	8.2	30.0	1.4	8.0	7.4	4.4	1.7	5.78	0.95	302.7
Aug	13.8	13.3	9.7	18.6	28.1	8.7	1.7	11.7	11.5	2.6	1.7	5.77	1.77	196.3
Sept	16.4	15.7	19.8	8.7	31.6	10.8	2.4	6.7	6.4	2.6	3.0	5.53	0.99	330.2
Oct	7.2	6.4	5.2	12.1	12.9	13.6	1.5	6.4	6.1	2.2	0.9	6.03	0.66	393.6
Nov	13.9	12.9	5.2	14.5	12.1	17.0	4.0	5.6	5.3	1.5	5.7	5.24	1.13	142.1
Dec	4.7	2.9	1.8	28.3	13.4	29.5	4.2	5.6	5.0	5.5	1.1	5.97	1.07	314.0
Annual	10.8	9.4	8.1	21.0	16.3	22.7	2.5	6.9	6.4	3.4	2.4	5.61	1.08	2222.4
Max.	36.6	34.2	60.0	137	129	165	13.3	17.4	16.2	14.6	107	7.17	6.80	
Min.	<1.0	<1.0	1.0	1.9	<1.0	7.3	<1.0	1.4	1.2	0.6	<0.1	3.97	0.41	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.79	0.61	0.61	3.46	1.45	3.05	0.12	0.55	0.49	0.44	0.19
Feb	0.58	0.36	0.15	4.63	0.36	3.72	0.13	0.34	0.26	0.41	0.80
Mar	0.25	0.20	0.23	0.54	0.23	0.78	0.09	0.18	0.16	0.10	0.04
Apr	0.11	0.09	0.10	0.20	0.15	0.28	0.03	0.10	0.10	0.02	0.01
May	1.12	0.84	0.76	4.00	0.95	4.54	0.23	0.70	0.60	0.55	0.40
June	6.17	5.76	4.27	2.91	5.59	6.83	1.12	1.64	1.50	0.51	0.81
July	2.29	1.84	1.92	7.63	2.47	9.07	0.41	2.43	2.24	1.34	0.51
Aug	2.71	2.61	1.90	3.65	5.51	1.72	0.33	2.29	2.25	0.50	0.34
Sept	5.41	5.19	6.55	2.89	10.4	3.56	0.79	2.20	2.12	0.86	0.98
Oct	2.82	2.50	2.04	4.76	5.09	5.35	0.61	2.52	2.40	0.88	0.37
Nov	1.98	1.83	0.73	2.07	1.72	2.42	0.57	0.80	0.75	0.22	0.81
Dec	1.46	0.90	0.56	8.88	4.22	9.28	1.31	1.76	1.56	1.72	0.34
Annual	23.9	21.0	18.1	46.7	36.2	50.5	5.53	15.4	14.3	7.65	5.42

Data completeness (Monthly)

2006	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	68	68	68	68	68	68	68	68	68	68	68	68	68	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	79	79	79	79	79	79	79	79	79	79	79	79	79	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	94	94	94	94	94	94	94	94	94	94	94	94	94	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. Sto. Tomas

Country: Philippines

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	**	**	**	**	**	**	**	**	**	**	**	**	**	**
July	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Aug	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Sept	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Oct	<1.0	<1.0	1.7	1.1	<1.0	2.1	<1.0	4.8	4.7	0.7	0.5	6.32	0.19	306.4
Nov	2.3	2.1	2.2	2.1	<1.0	4.0	2.0	7.3	7.2	1.2	0.5	6.32	0.30	90.4
Dec	2.9	2.5	2.7	4.6	2.6	6.1	2.8	9.2	9.1	2.5	0.4	6.40	0.31	33.7
Annual	1.4	1.2	1.9	1.6	<1.0	2.8	1.3	5.6	5.6	1.0	0.5	6.32	0.22	430.5
Max.	14.1	12.5	14.7	10.5	13.5	25.1	8.1	20.0	19.4	4.4	2.5	7.02	1.14	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	3.8	3.7	0.6	<0.1	5.60	0.13	

Wet deposition (Monthly)

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

2006	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	**	**	**	**	**	**	**	**	**	**	**
July	**	**	**	**	**	**	**	**	**	**	**
Aug	**	**	**	**	**	**	**	**	**	**	**
Sept	**	**	**	**	**	**	**	**	**	**	**
Oct	0.28	0.25	0.51	0.33	0.13	0.65	0.29	1.46	1.45	0.22	0.15
Nov	0.21	0.19	0.20	0.19	0.08	0.36	0.18	0.66	0.65	0.11	0.04
Dec	0.10	0.09	0.09	0.16	0.09	0.21	0.10	0.31	0.31	0.08	0.01
Annual	0.59	0.52	0.80	0.68	0.29	1.21	0.57	2.43	2.40	0.42	0.20

Data completeness (Monthly)

2006	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
July	**	**	**	**	**	**	**	**	**	**	**	**	**	0
Aug	**	**	**	**	**	**	**	**	**	**	**	**	**	0
Sept	**	**	**	**	**	**	**	**	**	**	**	**	**	0
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	87
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	24

[--] 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)

2006	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	34.1	33.0	30.6	24.2	57.9	17.1	6.5	3.6	3.3	<0.4	25.1	4.60	2.76	20.9
Feb	70.6	67.2	48.7	52.4	110	56.2	34.5	9.5	8.3	10.6	39.8	4.40	4.26	3.3
Mar	171	160	183	216	173	173	28.7	118	115	50.8	16.6	4.78	11.8	5.7
Apr	196	187	182	190	180	145	27.0	185	182	52.5	0.3	6.56	11.8	56.5
May	24.3	22.7	16.3	25.1	29.4	25.9	3.6	7.7	7.2	0.8	12.2	4.92	1.78	233.5
June	56.8	55.8	49.6	36.1	117	16.9	2.3	13.4	13.1	3.9	28.0	4.55	4.11	191.5
July	15.8	14.8	14.9	18.7	26.2	16.5	3.4	1.7	1.4	1.5	18.8	4.73	1.38	484.4
Aug	23.3	21.4	22.3	40.4	37.5	32.6	1.9	5.4	4.7	4.6	33.7	4.47	2.30	31.6
Sept	34.4	31.8	39.1	48.3	10.8	42.4	4.6	4.9	3.9	7.0	79.4	4.10	4.38	42.2
Oct	54.5	48.9	48.0	50.2	53.9	92.4	5.0	16.3	14.3	7.4	20.0	4.70	3.30	12.8
Nov	31.8	28.7	53.7	88.3	81.4	50.3	13.9	21.7	20.6	5.3	24.4	4.61	3.54	9.2
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	37.0	35.2	33.0	36.0	53.0	28.8	4.9	15.8	15.2	5.1	21.0	4.68	2.75	1091.6
Max.	287	275	207	288	300	193	42.5	219	216	73.6	100	7.40	13.8	
Min.	7.5	6.8	5.4	12.3	1.5	8.8	1.5	0.7	0.5	<0.4	<0.1	4.00	0.70	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.71	0.69	0.64	0.51	1.21	0.36	0.14	0.08	0.07	<0.01	0.52
Feb	0.23	0.22	0.16	0.17	0.36	0.19	0.11	0.03	0.03	0.04	0.13
Mar	0.97	0.91	1.04	1.23	0.99	0.98	0.16	0.67	0.65	0.29	0.09
Apr	11.1	10.6	10.3	10.7	10.2	8.21	1.53	10.5	10.3	2.96	0.02
May	5.67	5.30	3.80	5.87	6.87	6.05	0.83	1.81	1.68	0.20	2.84
June	10.9	10.7	9.51	6.91	22.5	3.23	0.45	2.57	2.50	0.74	5.37
July	7.65	7.16	7.20	9.05	12.7	7.99	1.64	0.83	0.66	0.75	9.10
Aug	0.74	0.68	0.70	1.28	1.19	1.03	0.06	0.17	0.15	0.15	1.06
Sept	1.45	1.34	1.65	2.04	0.45	1.79	0.19	0.21	0.17	0.29	3.35
Oct	0.70	0.63	0.61	0.64	0.69	1.18	0.06	0.21	0.18	0.10	0.26
Nov	0.29	0.26	0.49	0.81	0.75	0.46	0.13	0.20	0.19	0.05	0.22
Dec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	40.3	38.5	36.1	39.2	57.9	31.5	5.31	17.2	16.6	5.57	23.0

Data completeness (Monthly)

2006	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
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)

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	38.5	33.9	24.8	109	53.7	76.2	11.5	9.2	7.5	8.2	60.1	4.22	4.32	48.0
Feb	71.8	54.6	46.4	312	57.9	286	30.7	19.0	12.8	36.6	55.9	4.25	7.44	35.0
Mar	59.8	43.6	33.3	297	40.9	270	12.3	32.0	26.2	36.0	29.3	4.53	6.71	36.0
Apr	54.4	43.7	38.5	204	40.4	177	9.8	23.9	20.0	18.0	49.3	4.31	5.83	113.5
May	25.7	21.4	21.7	87.2	17.4	71.4	5.6	8.2	6.7	6.3	47.7	4.32	3.34	140.6
June	21.9	17.8	19.1	78.8	35.5	68.7	5.9	7.6	6.1	6.8	19.3	4.71	2.55	202.0
July	13.9	11.3	17.6	54.2	12.0	43.2	2.6	2.1	1.2	5.3	36.7	4.44	2.22	333.8
Aug	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Sept	12.1	6.9	11.8	95.8	11.9	87.6	2.5	5.7	3.8	9.5	15.3	4.82	2.45	83.5
Oct	54.7	51.0	52.5	80.4	22.4	61.9	2.3	7.0	5.7	7.6	158	3.80	7.70	44.0
Nov	31.4	29.3	49.6	79.6	35.9	35.8	5.7	11.9	11.1	6.6	104	3.98	5.14	65.8
Dec	30.8	26.9	42.5	102	33.8	64.2	3.2	11.3	9.9	9.2	93.7	4.03	5.01	25.0
Annual	28.1	22.9	25.5	102	26.1	85.0	6.0	9.0	7.2	9.6	45.9	4.34	3.64	1127.2
Max.	185	168	202	608	141	528	90.4	81.2	74.1	105	251	5.80	15.0	
Min.	6.0	<1.0	2.0	21.1	2.8	9.3	1.1	1.2	<0.2	<0.4	1.6	3.60	1.10	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	1.85	1.63	1.19	5.21	2.58	3.66	0.55	0.44	0.36	0.39	2.89
Feb	2.51	1.91	1.63	10.9	2.02	10.00	1.08	0.66	0.45	1.28	1.96
Mar	2.15	1.57	1.20	10.7	1.47	9.71	0.44	1.15	0.94	1.30	1.05
Apr	6.18	4.96	4.37	23.1	4.59	20.1	1.11	2.71	2.27	2.04	5.59
May	3.62	3.01	3.05	12.3	2.44	10.0	0.79	1.15	0.94	0.88	6.70
June	4.43	3.59	3.85	15.9	7.17	13.9	1.20	1.53	1.23	1.36	3.90
July	4.65	3.78	5.89	18.1	4.00	14.4	0.87	0.70	0.39	1.76	12.2
Aug	**	**	**	**	**	**	**	**	**	**	**
Sept	1.01	0.57	0.98	8.00	0.99	7.31	0.21	0.48	0.32	0.79	1.28
Oct	2.41	2.24	2.31	3.54	0.99	2.72	0.10	0.31	0.25	0.34	6.97
Nov	2.07	1.93	3.27	5.24	2.36	2.36	0.38	0.78	0.73	0.44	6.84
Dec	0.77	0.67	1.06	2.54	0.84	1.60	0.08	0.28	0.25	0.23	2.34
Annual	31.6	25.9	28.8	116	29.5	95.8	6.80	10.2	8.13	10.8	51.8

Data completeness (Monthly)

2006	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	68
Aug	**	**	**	**	**	**	**	**	**	**	**	**	**	0
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	63
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	86

[--] 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)

2006	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	62.8	57.2	53.3	230	115	93.3	16.4	81.3	79.3	10.4	5.0	5.30	6.00	19.5
Mar	95.1	88.7	120	167	176	107	79.8	61.1	58.8	18.3	0.8	6.10	8.00	6.0
Apr	61.3	56.3	65.7	131	99.1	82.7	57.4	43.1	41.3	14.6	2.2	5.66	5.11	76.0
May	21.3	20.6	23.2	76.3	37.9	11.9	62.3	7.7	7.4	1.2	15.2	4.82	2.45	161.0
June	27.8	27.2	21.5	14.9	55.5	10.9	6.6	4.2	4.0	0.8	9.3	5.03	1.73	119.5
July	10.8	10.2	9.8	9.7	23.9	8.6	2.6	4.0	3.8	0.7	0.9	6.04	0.67	111.0
Aug	16.9	16.2	26.0	114	52.9	11.6	90.6	12.2	11.9	0.8	0.8	6.10	2.43	141.5
Sept	4.2	3.8	3.1	11.6	2.8	6.7	7.7	1.8	1.7	0.8	0.2	6.70	0.30	13.5
Oct	27.3	23.1	24.9	55.6	26.2	70.5	13.9	9.4	7.9	9.9	6.3	5.20	2.00	21.0
Nov	38.7	29.8	31.6	174	31.8	149	9.6	26.5	23.3	18.0	9.8	5.01	4.12	39.5
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	26.8	24.9	27.7	77.5	50.2	31.1	42.1	14.7	14.0	4.0	6.5	5.19	2.51	708.5
Max.	110	97.8	122	305	193	241	252	81.7	79.9	43.8	39.8	6.90	10.00	
Min.	3.9	3.4	3.1	4.9	2.8	6.7	2.1	1.8	1.7	<0.4	0.1	4.40	0.30	

Wet deposition (Monthly)

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

2006	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	1.22	1.12	1.04	4.48	2.24	1.82	0.32	1.59	1.55	0.20	0.10
Mar	0.57	0.53	0.72	1.00	1.06	0.64	0.48	0.37	0.35	0.11	<0.01
Apr	4.66	4.28	5.00	9.95	7.53	6.28	4.36	3.28	3.14	1.11	0.17
May	3.44	3.32	3.73	12.3	6.10	1.92	10.0	1.23	1.19	0.20	2.45
June	3.33	3.25	2.56	1.78	6.63	1.30	0.79	0.50	0.47	0.10	1.12
July	1.19	1.14	1.08	1.07	2.65	0.95	0.29	0.44	0.42	0.07	0.10
Aug	2.40	2.30	3.68	16.1	7.48	1.64	12.8	1.72	1.69	0.11	0.11
Sept	0.06	0.05	0.04	0.16	0.04	0.09	0.10	0.02	0.02	0.01	<0.01
Oct	0.57	0.49	0.52	1.17	0.55	1.48	0.29	0.20	0.17	0.21	0.13
Nov	1.53	1.18	1.25	6.89	1.25	5.88	0.38	1.05	0.92	0.71	0.39
Dec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	19.0	17.6	19.6	54.9	35.5	22.0	29.9	10.4	9.93	2.83	4.57

Data completeness (Monthly)

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	100
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)

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L	µmol/L		mS/m	mm month ⁻¹ or mm year ⁻¹
Jan	13.0	12.6	13.7	5.6	3.3	6.1	3.8	39.4	39.3	6.2	0.2	6.62	1.40	1.5
Feb	12.2	11.8	13.1	2.8	3.9	6.1	2.6	48.4	48.3	6.2	0.1	6.90	1.59	3.6
Mar	10.2	9.9	7.3	9.0	5.5	5.6	3.6	13.9	13.8	3.7	0.8	6.07	0.68	14.8
Apr	14.2	13.9	12.7	1.8	8.4	4.9	2.5	15.0	14.9	3.2	1.8	5.74	0.80	11.2
May	4.1	4.0	6.3	8.0	7.7	1.0	1.2	6.6	6.6	1.0	2.9	5.54	0.50	33.1
June	4.3	4.2	4.4	3.4	5.6	1.4	1.0	3.2	3.1	0.6	3.4	5.46	0.37	83.0
July	2.4	2.3	3.7	5.6	1.6	1.0	<1.0	3.0	3.0	0.6	5.1	5.29	0.32	162.5
Aug	7.6	7.5	6.8	2.1	4.0	1.4	1.1	6.3	6.2	1.1	4.3	5.37	0.53	70.0
Sept	5.0	4.9	3.7	<1.0	<1.0	1.3	<1.0	2.0	2.0	<0.4	5.4	5.27	0.33	20.0
Oct	3.3	3.2	3.1	2.4	2.5	2.0	2.2	3.9	3.8	0.8	2.3	5.63	0.29	5.2
Nov	4.5	4.2	4.4	3.9	6.9	5.5	3.6	30.8	30.7	2.8	0.8	6.08	0.86	5.5
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	4.7	4.6	5.1	4.5	3.7	1.6	1.1	5.5	5.4	1.0	4.1	5.39	0.43	410.3
Max.	31.5	30.9	33.9	13.5	37.2	10.0	24.0	83.6	83.5	15.2	8.5	7.10	2.87	
Min.	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	<0.1	5.07	0.27	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.02	0.02	0.02	<0.01	<0.01	<0.01	<0.01	0.06	0.06	<0.01	<0.01
Feb	0.04	0.04	0.05	0.01	0.01	0.02	<0.01	0.17	0.17	0.02	<0.01
Mar	0.15	0.15	0.11	0.13	0.08	0.08	0.05	0.21	0.20	0.05	0.01
Apr	0.16	0.16	0.14	0.02	0.09	0.06	0.03	0.17	0.17	0.04	0.02
May	0.13	0.13	0.21	0.27	0.26	0.03	0.04	0.22	0.22	0.03	0.10
June	0.36	0.35	0.37	0.29	0.47	0.11	0.08	0.26	0.26	0.05	0.29
July	0.39	0.38	0.60	0.92	0.27	0.17	0.12	0.49	0.49	0.10	0.83
Aug	0.53	0.53	0.48	0.15	0.28	0.10	0.07	0.44	0.44	0.08	0.30
Sept	0.10	0.10	0.07	0.01	0.00	0.03	0.01	0.04	0.04	<0.01	0.11
Oct	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.02	<0.01	0.01
Nov	0.02	0.02	0.02	0.02	0.04	0.03	0.02	0.17	0.17	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	1.93	1.89	2.09	1.83	1.52	0.64	0.45	2.24	2.23	0.40	1.67

Data completeness (Monthly)

2006	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
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

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

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

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

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

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

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

Table 3.44 Monthly results

Site: Listvyanka

Country: Russia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	15.9	15.7	59.1	6.1	10.4	3.4	<1.0	18.4	18.3	3.6	26.6	4.57	2.02	4.8
Feb	9.1	8.8	31.2	4.3	1.4	5.0	2.2	16.3	16.2	2.4	7.2	5.14	0.99	10.7
Mar	12.6	12.2	24.0	3.6	5.1	5.2	2.4	14.8	14.7	2.9	7.7	5.11	0.97	13.1
Apr	17.8	17.5	25.3	6.8	5.0	6.1	3.9	17.3	17.1	5.2	3.8	5.42	1.05	12.7
May	76.6	76.1	64.0	6.1	124	7.3	5.5	26.4	26.2	6.4	50.9	4.29	5.29	9.3
June	11.4	11.4	9.1	2.4	11.5	<1.0	<1.0	4.6	4.6	0.6	16.6	4.78	1.02	49.8
July	10.7	10.6	8.0	3.2	17.0	2.0	<1.0	2.4	2.4	0.7	18.2	4.74	1.05	92.1
Aug	30.3	30.2	10.4	3.5	14.3	2.5	1.5	9.9	9.8	1.6	45.1	4.35	2.39	69.2
Sept	21.7	21.4	8.9	3.6	5.4	4.2	2.6	14.2	14.1	1.9	12.6	4.90	1.18	24.3
Oct	15.7	15.5	14.3	1.8	7.4	2.6	2.0	9.7	9.6	2.3	11.0	4.96	1.07	12.9
Nov	21.8	21.4	28.7	4.4	10.2	6.4	3.2	15.7	15.5	3.3	20.5	4.69	1.56	8.8
Dec	17.5	17.1	41.1	6.0	6.6	6.9	3.0	26.2	26.1	4.8	5.2	5.29	1.31	3.1
Annual	19.0	18.8	14.6	3.5	15.5	2.8	1.5	8.8	8.8	1.7	22.8	4.64	1.51	310.8
Max.	384	383	146	95.9	331	68.7	21.7	61.4	61.2	12.3	724	6.10	30.4	
Min.	2.2	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.4	0.8	3.14	0.26	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.08	0.08	0.28	0.03	0.05	0.02	<0.01	0.09	0.09	0.02	0.13
Feb	0.10	0.09	0.33	0.05	0.01	0.05	0.02	0.17	0.17	0.03	0.08
Mar	0.16	0.16	0.31	0.05	0.07	0.07	0.03	0.19	0.19	0.04	0.10
Apr	0.23	0.22	0.32	0.09	0.06	0.08	0.05	0.22	0.22	0.07	0.05
May	0.71	0.71	0.59	0.06	1.15	0.07	0.05	0.25	0.24	0.06	0.47
June	0.57	0.57	0.45	0.12	0.57	0.02	0.03	0.23	0.23	0.03	0.82
July	0.98	0.97	0.74	0.30	1.56	0.18	0.06	0.22	0.22	0.06	1.67
Aug	2.10	2.09	0.72	0.24	0.99	0.17	0.11	0.68	0.68	0.11	3.12
Sept	0.53	0.52	0.22	0.09	0.13	0.10	0.06	0.35	0.34	0.05	0.31
Oct	0.20	0.20	0.18	0.02	0.10	0.03	0.03	0.12	0.12	0.03	0.14
Nov	0.19	0.19	0.25	0.04	0.09	0.06	0.03	0.14	0.14	0.03	0.18
Dec	0.05	0.05	0.13	0.02	0.02	0.02	<0.01	0.08	0.08	0.02	0.02
Annual	5.90	5.85	4.54	1.09	4.82	0.87	0.48	2.74	2.72	0.53	7.10

Data completeness (Monthly)

2006	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	95	95	95	95	95	95	95	95	95	95	95	95	95	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	99	99	99	99	99	99	99	99	99	99	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

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

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

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

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

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

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

Table 3.45 Monthly results

Site: Irkutsk

Country: Russia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	69.5	64.1	69.4	100	65.7	87.9	6.5	123	121	27.0	<0.1	7.02	6.24	4.9
Feb	36.3	34.7	34.9	28.5	17.3	27.0	4.9	53.0	52.4	12.4	0.9	6.04	2.42	12.8
Mar	34.1	32.6	23.8	20.4	23.0	25.1	4.5	44.0	43.5	9.7	0.6	6.22	2.37	9.4
Apr	34.9	33.0	23.7	27.5	25.6	31.1	5.9	65.4	64.8	10.2	0.3	6.58	2.75	11.3
May	48.7	47.4	40.9	26.7	72.8	21.0	16.5	69.5	69.0	11.6	13.0	4.89	4.25	16.6
June	18.8	18.6	9.8	8.0	23.2	1.9	9.9	17.4	17.4	4.6	9.1	5.04	1.43	53.1
July	12.6	12.4	12.6	4.0	18.1	2.8	3.0	12.2	12.1	3.0	10.4	4.98	1.15	72.6
Aug	19.4	19.2	12.3	4.7	21.3	3.3	7.3	17.8	17.8	3.9	8.3	5.08	1.26	84.1
Sept	33.0	32.8	9.9	6.1	20.4	4.1	2.5	27.4	27.3	3.3	4.0	5.39	1.35	36.4
Oct	35.8	34.8	13.9	17.9	17.8	16.0	35.0	60.8	60.5	10.1	0.4	6.41	2.63	11.7
Nov	31.7	30.4	19.2	25.8	28.0	21.4	8.8	38.6	38.2	5.8	5.2	5.29	1.97	36.9
Dec	83.7	82.4	30.6	24.5	41.3	23.0	10.3	90.0	89.5	17.3	0.8	6.10	3.60	7.5
Annual	26.0	25.4	16.5	12.5	24.9	10.0	7.6	29.9	29.7	5.8	7.0	5.15	1.76	357.3
Max.	224	223	310	205	489	183	622	268	267	127	186	7.44	44.1	
Min.	3.2	3.1	<1.0	<1.0	<1.0	<1.0	<1.0	2.3	2.3	0.4	<0.1	3.73	0.71	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.34	0.32	0.34	0.49	0.32	0.43	0.03	0.61	0.60	0.13	<0.01
Feb	0.46	0.44	0.45	0.37	0.22	0.35	0.06	0.68	0.67	0.16	0.01
Mar	0.32	0.31	0.22	0.19	0.22	0.24	0.04	0.41	0.41	0.09	<0.01
Apr	0.39	0.37	0.27	0.31	0.29	0.35	0.07	0.74	0.73	0.12	<0.01
May	0.81	0.79	0.68	0.44	1.21	0.35	0.27	1.15	1.14	0.19	0.22
June	1.00	0.99	0.52	0.42	1.23	0.10	0.53	0.92	0.92	0.25	0.48
July	0.91	0.90	0.92	0.29	1.31	0.20	0.22	0.88	0.88	0.21	0.75
Aug	1.63	1.62	1.04	0.40	1.79	0.27	0.61	1.50	1.49	0.33	0.70
Sept	1.20	1.19	0.36	0.22	0.74	0.15	0.09	1.00	0.99	0.12	0.15
Oct	0.42	0.41	0.16	0.21	0.21	0.19	0.41	0.71	0.71	0.12	<0.01
Nov	1.17	1.12	0.71	0.95	1.03	0.79	0.32	1.42	1.41	0.22	0.19
Dec	0.63	0.62	0.23	0.18	0.31	0.17	0.08	0.67	0.67	0.13	<0.01
Annual	9.28	9.07	5.89	4.48	8.89	3.58	2.73	10.7	10.6	2.06	2.52

Data completeness (Monthly)

2006	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	100	100	100	100
Mar	97	97	97	97	97	97	97	97	97	97	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

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

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

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

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

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

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

Table 3.46 Monthly results

Site: Primorskaya

Country: Russia

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	49.5	47.8	21.6	34.2	34.2	28.3	7.7	37.4	36.8	9.3	3.6	5.44	2.32	5.5
Feb	32.8	32.0	31.9	17.8	31.3	13.0	3.8	30.4	30.1	7.0	1.2	5.91	1.73	36.4
Mar	103	98.2	65.6	83.6	98.6	82.1	13.5	81.4	79.6	21.1	10.8	4.97	5.50	18.4
Apr	42.7	41.9	33.0	11.6	48.9	12.6	2.9	31.3	31.0	5.7	8.8	5.06	2.31	115.5
May	64.5	63.9	52.4	18.3	94.7	9.9	9.2	30.7	30.5	6.9	3.2	5.49	2.94	45.0
June	40.9	40.6	28.7	13.4	55.3	6.1	5.0	13.6	13.4	2.9	21.2	4.67	2.37	81.0
July	38.2	37.5	17.2	10.8	67.1	11.4	2.7	12.3	12.1	2.4	4.5	5.35	1.70	46.5
Aug	38.7	38.0	17.3	10.8	23.0	11.5	4.6	33.7	33.5	4.1	15.3	4.81	2.22	92.1
Sept	16.9	16.3	6.7	13.8	21.5	9.5	3.2	5.9	5.7	2.0	8.0	5.10	1.04	83.3
Oct	52.6	50.2	17.0	33.6	31.6	39.5	8.9	19.7	18.9	5.0	27.3	4.56	3.00	46.6
Nov	102	100	60.6	22.6	102	30.9	9.5	29.3	28.7	12.3	53.4	4.27	5.10	46.5
Dec	30.7	27.8	115	55.6	51.3	48.1	26.6	40.7	39.6	12.5	21.9	4.66	4.39	6.1
Annual	46.0	45.0	29.2	18.0	49.8	16.8	5.5	25.0	24.7	5.5	15.0	4.83	2.47	622.9
Max.	402	384	183	218	263	291	146	303	296	79.2	72.4	7.06	15.5	
Min.	2.1	2.1	<1.0	3.9	3.3	<1.0	<1.0	2.2	2.2	0.4	<0.1	4.14	0.56	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.27	0.26	0.12	0.19	0.19	0.16	0.04	0.21	0.20	0.05	0.02
Feb	1.19	1.16	1.16	0.65	1.14	0.47	0.14	1.11	1.10	0.26	0.04
Mar	1.90	1.81	1.21	1.54	1.82	1.51	0.25	1.50	1.46	0.39	0.20
Apr	4.93	4.84	3.81	1.34	5.65	1.46	0.34	3.62	3.59	0.66	1.01
May	2.90	2.88	2.36	0.82	4.26	0.44	0.42	1.38	1.37	0.31	0.15
June	3.32	3.29	2.32	1.09	4.48	0.50	0.40	1.10	1.09	0.23	1.72
July	1.77	1.74	0.80	0.50	3.12	0.53	0.12	0.57	0.56	0.11	0.21
Aug	3.56	3.50	1.60	1.00	2.12	1.06	0.43	3.11	3.08	0.38	1.41
Sept	1.41	1.36	0.56	1.15	1.79	0.79	0.27	0.49	0.48	0.17	0.66
Oct	2.45	2.34	0.79	1.57	1.47	1.84	0.42	0.92	0.88	0.23	1.27
Nov	4.74	4.65	2.82	1.05	4.73	1.44	0.44	1.36	1.33	0.57	2.48
Dec	0.19	0.17	0.70	0.34	0.31	0.29	0.16	0.25	0.24	0.08	0.13
Annual	28.6	28.0	18.2	11.2	31.0	10.5	3.41	15.6	15.4	3.43	9.32

Data completeness (Monthly)

2006	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	100	100	99	100
Mar	99	99	99	99	99	99	99	99	99	99	100	100	99	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	99	99	99	99	99	99	99	99	99	99	100	100	99	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	90	90	90	90	90	90	90	90	90	90	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 3.47 Monthly results

Site: Bangkok

Country: Thailand

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	31.3	30.6	66.6	19.8	111	11.4	5.4	35.9	35.6	3.5	7.8	5.11	2.90	68.2
Mar	123	121	240	40.9	233	33.1	15.9	91.1	90.4	11.9	79.4	4.10	1.07	5.6
Apr	26.6	26.0	42.1	11.0	66.9	9.4	3.0	18.3	18.1	2.7	7.9	5.10	3.20	132.8
May	19.4	19.0	37.4	7.5	53.8	6.5	1.4	12.3	12.2	1.8	2.5	5.60	1.72	254.0
June	28.1	27.6	41.4	12.2	58.8	8.1	5.3	18.4	18.3	2.6	12.9	4.89	2.52	299.7
July	18.0	17.1	9.3	19.9	48.3	14.2	2.0	18.4	18.1	2.9	<0.1	7.22	1.05	178.6
Aug	46.7	45.3	28.6	34.1	69.2	23.0	4.0	46.4	45.9	5.4	0.2	6.61	2.06	49.1
Sept	15.9	15.4	17.3	6.1	42.0	7.6	2.2	14.3	14.1	1.8	1.1	5.98	1.12	322.1
Oct	16.4	16.2	34.9	3.5	44.9	3.9	1.4	14.7	14.6	1.4	16.7	4.78	2.14	243.3
Nov	33.4	32.7	49.9	11.3	97.6	12.8	3.1	31.8	31.5	3.6	0.4	6.41	2.55	30.8
Dec	29.9	28.4	74.2	27.6	115	23.9	8.4	96.8	96.3	5.8	0.2	6.80	4.05	4.4
Annual	22.3	21.8	33.0	10.8	56.1	8.7	2.8	18.4	18.2	2.3	6.9	5.16	1.94	1588.6
Max.	435	420	368	482	264	247	35.8	214	208	41.1	79.4	8.60	6.30	
Min.	5.1	4.9	2.6	1.4	18.8	1.3	<1.0	3.5	3.4	0.4	<0.1	4.10	0.31	

Wet deposition (Monthly)

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

2006	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	2.14	2.09	4.54	1.35	7.59	0.78	0.37	2.45	2.43	0.24	0.53
Mar	0.69	0.68	1.35	0.23	1.30	0.19	0.09	0.51	0.51	0.07	0.44
Apr	3.53	3.46	5.59	1.46	8.89	1.25	0.40	2.43	2.41	0.36	1.05
May	4.92	4.82	9.49	1.90	13.7	1.66	0.35	3.13	3.09	0.45	0.64
June	8.43	8.28	12.4	3.67	17.6	2.42	1.58	5.53	5.47	0.78	3.86
July	3.21	3.06	1.67	3.55	8.64	2.53	0.35	3.29	3.24	0.52	0.01
Aug	2.29	2.23	1.41	1.67	3.40	1.13	0.19	2.28	2.25	0.27	0.01
Sept	5.11	4.96	5.58	1.97	13.5	2.44	0.71	4.59	4.54	0.57	0.34
Oct	3.99	3.94	8.50	0.86	10.9	0.95	0.33	3.58	3.56	0.33	4.07
Nov	1.03	1.01	1.54	0.35	3.01	0.39	0.09	0.98	0.97	0.11	0.01
Dec	0.13	0.13	0.33	0.12	0.50	0.11	0.04	0.43	0.42	0.03	<0.01
Annual	35.5	34.6	52.4	17.1	89.0	13.8	4.50	29.2	28.9	3.72	11.0

Data completeness (Monthly)

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	98	98	98	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	100	100	100	100	100	100	100	100	100	100	100	100	100	100

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

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

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

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

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

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

Table 3.48 Monthly results

Site: Samutprakarn

Country: Thailand

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	*	*	*	*	*	*	*	*	*	*	*	*	*	0.7
Feb	67.1	65.0	83.1	40.2	129	34.4	8.2	46.3	45.5	10.4	1.0	6.01	3.46	17.1
Mar	13.6	13.0	17.1	9.8	31.0	9.6	1.8	9.1	8.9	2.5	0.5	6.28	0.59	47.0
Apr	20.7	19.6	23.2	20.7	49.8	18.8	3.0	14.9	14.5	3.8	0.8	6.09	1.33	61.6
May	24.8	23.7	28.1	19.5	29.4	17.6	2.0	11.9	11.5	3.3	2.4	5.62	2.04	142.1
June	21.0	20.4	16.7	9.8	51.3	9.1	2.5	11.5	11.3	2.1	2.0	5.69	1.30	245.2
July	16.1	15.4	5.7	12.9	47.4	11.4	1.5	8.6	8.4	2.2	0.9	6.05	0.92	138.5
Aug	11.4	10.7	4.8	10.4	36.8	11.7	2.4	6.2	6.0	1.8	0.7	6.17	0.86	151.9
Sept	20.6	19.1	5.7	11.4	30.0	19.4	4.5	21.4	20.9	6.4	1.5	5.82	1.64	454.8
Oct	25.2	24.7	26.0	7.5	125	7.2	9.7	13.0	12.8	6.9	0.4	6.41	2.47	141.4
Nov	*	*	*	*	*	*	*	*	*	*	*	*	*	14.9
Dec	76.9	72.2	68.1	70.0	565	78.3	141	79.6	77.9	102	0.9	6.05	9.45	4.8
Annual	20.7	19.7	14.1	12.5	49.9	14.6	4.3	14.8	14.5	4.6	1.4	5.87	1.56	1420.0
Max.	80.9	77.5	86.9	89.7	565	78.3	141	90.6	89.3	102	7.9	7.05	9.56	
Min.	<1.0	<1.0	<1.0	<1.0	5.5	<1.0	<1.0	<0.2	<0.2	<0.4	<0.1	5.10	0.44	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	*	*	*	*	*	*	*	*	*	*	*
Feb	1.15	1.11	1.42	0.69	2.20	0.59	0.14	0.79	0.78	0.18	0.02
Mar	0.64	0.61	0.80	0.46	1.46	0.45	0.09	0.43	0.42	0.12	0.02
Apr	1.28	1.21	1.43	1.27	3.07	1.16	0.19	0.92	0.89	0.24	0.05
May	3.52	3.37	3.99	2.76	4.18	2.50	0.29	1.69	1.64	0.47	0.34
June	5.14	5.00	4.10	2.41	12.6	2.23	0.62	2.83	2.78	0.51	0.49
July	2.23	2.14	0.79	1.78	6.57	1.58	0.21	1.19	1.16	0.30	0.12
Aug	1.73	1.62	0.73	1.59	5.59	1.78	0.37	0.95	0.91	0.27	0.10
Sept	9.37	8.67	2.59	5.21	13.6	8.84	2.05	9.71	9.52	2.91	0.68
Oct	3.56	3.50	3.68	1.06	17.7	1.02	1.37	1.83	1.81	0.97	0.06
Nov	*	*	*	*	*	*	*	*	*	*	*
Dec	0.37	0.35	0.33	0.34	2.71	0.38	0.68	0.38	0.37	0.49	<0.01
Annual	29.4	28.0	20.0	17.7	70.8	20.8	6.12	21.0	20.6	6.57	1.93

Data completeness (Monthly)

2006	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	93	93	93	93	93	93	93	93	93	93	93	93	93	100
Mar	77	77	77	77	77	77	77	77	77	77	77	77	77	100
Apr	98	98	98	98	98	98	98	98	98	98	96	96	96	100
May	96	96	96	96	96	96	96	96	96	96	96	96	96	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	94	94	94	94	94	94	94	94	94	94	94	94	94	100
Sept	100	99	100	100	99	99	99	99	99	99	100	100	100	100
Oct	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Dec	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Annual	97	96	97	97	96	96	96	96	96	96	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 3.49 Monthly results

Site: Patumthani

Country: Thailand

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	14.9	14.4	29.1	14.8	69.8	8.0	3.9	18.4	18.3	2.3	0.3	6.51	1.52	2.8
Feb	27.4	26.6	83.1	33.0	123	14.2	9.5	115	114	7.1	0.2	6.64	4.13	12.0
Mar	24.6	24.3	40.6	9.7	77.9	5.0	4.8	131	131	4.8	18.2	4.74	2.42	67.2
Apr	23.2	22.7	53.1	10.5	58.9	8.8	2.7	15.3	15.1	3.7	33.2	4.48	2.79	92.2
May	21.0	20.5	42.1	9.8	39.1	8.1	3.2	12.2	12.0	3.4	28.2	4.55	2.35	193.9
June	14.4	13.7	16.6	4.3	35.6	10.1	1.2	7.8	7.6	1.1	13.3	4.88	1.37	255.5
July	14.4	13.8	11.8	12.4	32.3	10.4	1.3	14.7	14.5	2.4	2.8	5.55	1.08	121.5
Aug	8.3	7.8	9.5	8.9	30.1	8.1	1.4	7.8	7.7	1.4	3.2	5.50	0.86	165.1
Sept	9.0	8.7	15.4	3.5	20.9	3.9	<1.0	5.7	5.6	0.8	9.5	5.02	0.91	426.3
Oct	11.5	11.0	17.0	4.9	24.6	8.2	1.3	6.2	6.0	1.0	12.0	4.92	1.19	186.3
Nov	10.6	10.0	28.6	7.3	54.8	9.6	2.5	18.8	18.6	2.2	6.5	5.19	1.69	51.9
Dec	11.9	11.5	21.6	7.8	31.4	5.3	2.0	20.7	20.6	1.4	14.2	4.85	1.71	33.0
Annual	13.4	13.0	22.0	6.8	33.5	7.5	1.7	12.8	12.7	1.8	13.0	4.89	1.42	1607.7
Max.	61.5	60.8	199	161	223	142	22.7	157	157	32.9	70.8	6.91	8.38	
Min.	2.1	2.1	2.1	<1.0	5.2	<1.0	<1.0	0.8	0.8	<0.4	0.1	4.15	0.25	

Wet deposition (Monthly)

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

2006	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	0.08	0.04	0.20	0.02	0.01	0.05	0.05	<0.01	<0.01
Feb	0.33	0.32	1.00	0.40	1.48	0.17	0.11	1.38	1.37	0.09	<0.01
Mar	1.66	1.64	2.73	0.65	5.24	0.34	0.32	8.78	8.77	0.32	1.23
Apr	2.14	2.09	4.89	0.97	5.43	0.81	0.24	1.41	1.39	0.34	3.06
May	4.07	3.98	8.16	1.91	7.58	1.58	0.62	2.37	2.33	0.65	5.47
June	3.67	3.51	4.24	1.09	9.08	2.57	0.30	1.99	1.94	0.28	3.40
July	1.75	1.68	1.44	1.50	3.92	1.26	0.16	1.79	1.76	0.29	0.35
Aug	1.37	1.29	1.57	1.46	4.97	1.35	0.23	1.29	1.26	0.24	0.52
Sept	3.82	3.72	6.55	1.49	8.92	1.67	0.33	2.44	2.40	0.35	4.05
Oct	2.14	2.05	3.17	0.91	4.58	1.53	0.24	1.16	1.13	0.19	2.24
Nov	0.55	0.52	1.48	0.38	2.84	0.50	0.13	0.98	0.97	0.11	0.34
Dec	0.39	0.38	0.71	0.26	1.04	0.18	0.07	0.68	0.68	0.05	0.47
Annual	21.6	20.8	35.4	11.0	53.9	12.0	2.67	20.6	20.4	2.82	20.9

Data completeness (Monthly)

2006	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	53	53	53	53	53	53	53	53	53	53	53	53	53	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	99	99	99	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Aug	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sept	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oct	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	100	100	100	100	100	100	100	100	100	100	99	99	99	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 3.50 Monthly results

Site: Khanchanaburi

Country: Thailand

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	15.4	15.0	31.0	9.9	64.3	6.5	4.3	6.2	6.1	1.6	10.0	5.00	1.43	68.0
Mar	11.0	10.7	19.8	7.8	39.7	5.0	6.1	5.9	5.8	2.5	8.4	5.08	1.23	115.6
Apr	3.6	3.1	7.0	8.5	12.4	7.7	<1.0	3.4	3.2	1.1	0.9	6.03	0.49	145.5
May	2.4	2.1	2.9	6.6	6.9	7.7	1.3	2.5	2.3	0.8	1.0	6.00	0.35	379.5
June	2.4	2.1	3.4	5.1	10.6	5.7	1.0	2.1	1.9	0.7	0.8	6.09	0.28	286.8
July	*	*	*	*	*	*	*	*	*	*	*	*	*	534.4
Aug	2.2	1.9	1.6	5.4	6.3	6.1	<1.0	1.4	1.3	0.8	<0.1	7.09	0.23	607.0
Sept	1.7	1.6	2.8	4.6	29.0	3.3	6.3	1.2	1.1	0.4	<0.1	7.03	0.35	250.9
Oct	5.3	4.4	3.8	3.2	37.5	15.2	6.4	2.2	1.9	0.5	<0.1	7.83	0.28	93.4
Nov	*	*	*	*	*	*	*	*	*	*	*	*	*	37.0
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	4.0	3.7	6.1	6.3	17.5	6.9	2.4	2.7	2.6	1.0	1.8	5.75	0.46	2518.1
Max.	56.1	55.2	36.8	48.8	90.9	53.5	31.2	14.5	14.2	6.2	39.8	8.70	3.53	
Min.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.7	0.7	<0.4	<0.1	4.40	0.09	

Wet deposition (Monthly)

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

2006	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	1.05	1.02	2.11	0.67	4.37	0.44	0.30	0.42	0.41	0.11	0.68
Mar	1.27	1.24	2.28	0.90	4.59	0.58	0.70	0.68	0.67	0.29	0.97
Apr	0.52	0.45	1.02	1.23	1.81	1.12	0.14	0.50	0.47	0.16	0.14
May	0.93	0.80	1.11	2.51	2.63	2.91	0.49	0.95	0.89	0.32	0.38
June	0.70	0.60	0.96	1.47	3.03	1.65	0.29	0.59	0.56	0.20	0.23
July	*	*	*	*	*	*	*	*	*	*	*
Aug	1.36	1.13	0.98	3.26	3.82	3.70	0.38	0.85	0.77	0.50	0.05
Sept	0.43	0.39	0.69	1.16	7.29	0.82	1.58	0.30	0.28	0.11	0.02
Oct	0.50	0.41	0.36	0.30	3.50	1.42	0.60	0.21	0.18	0.05	<0.01
Nov	*	*	*	*	*	*	*	*	*	*	*
Dec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	10.2	9.24	15.5	15.9	44.1	17.3	6.16	6.82	6.44	2.47	4.48

Data completeness (Monthly)

2006	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	94	94	94	94	94	94	94	94	94	94	94	94	94	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	98	98	98	98	98	98	98	98	98	98	98	98	98	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	54	54	54	54	54	54	54	54	54	54	54	54	54	100
July	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Aug	38	38	38	38	38	38	38	38	38	38	38	38	38	100
Sept	49	49	49	49	49	49	49	49	49	49	49	49	49	100
Oct	77	77	77	77	77	77	77	77	77	77	77	77	77	100
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Annual	51	51	51	51	51	51	51	51	51	51	51	51	51	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)

2006	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	24.2	24.0	41.5	14.0	60.0	4.3	11.0	4.0	3.9	44.3	26.2	4.58	3.39	14.2
Apr	6.4	6.3	14.0	5.3	30.5	2.1	4.6	7.6	7.6	2.1	3.7	5.43	1.02	162.2
May	5.8	5.6	10.1	4.5	22.5	4.2	1.0	3.8	3.7	3.2	4.1	5.39	0.81	221.8
June	3.8	3.6	6.4	3.7	17.0	3.4	3.6	8.0	7.9	<0.4	1.4	5.86	0.59	191.5
July	2.0	1.9	2.1	3.0	7.0	1.2	<1.0	2.9	2.9	2.6	0.6	6.25	0.30	267.4
Aug	3.0	2.7	6.7	2.6	7.9	3.7	<1.0	3.5	3.5	0.8	0.6	6.20	0.34	281.2
Sept	5.8	5.6	6.0	3.0	10.6	3.0	1.5	6.9	6.8	0.8	1.3	5.87	0.59	186.5
Oct	6.0	5.6	13.9	4.4	15.2	11.7	<1.0	<0.2	<0.2	6.4	1.3	5.90	0.50	95.0
Nov	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	4.5	4.3	7.9	3.7	15.2	3.5	1.7	4.7	4.7	2.4	2.0	5.70	0.59	1419.8
Max.	86.8	86.6	104	47.3	211	43.4	28.2	122	121	93.0	46.8	6.88	5.01	
Min.	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<0.2	<0.2	<0.4	0.1	4.33	0.15	

Wet deposition (Monthly)

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

2006	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	0.34	0.34	0.59	0.20	0.85	0.06	0.16	0.06	0.06	0.63	0.37
Apr	1.05	1.03	2.27	0.87	4.94	0.34	0.74	1.23	1.22	0.34	0.60
May	1.29	1.24	2.23	0.99	5.00	0.93	0.22	0.85	0.83	0.72	0.90
June	0.73	0.69	1.22	0.70	3.26	0.64	0.68	1.54	1.52	0.07	0.26
July	0.54	0.52	0.55	0.81	1.88	0.33	0.15	0.77	0.76	0.70	0.15
Aug	0.83	0.77	1.88	0.73	2.22	1.04	0.15	1.00	0.97	0.21	0.18
Sept	1.08	1.05	1.11	0.57	1.98	0.57	0.27	1.28	1.27	0.16	0.25
Oct	0.57	0.53	1.32	0.42	1.44	1.11	0.05	<0.01	<0.01	0.60	0.12
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	6.44	6.16	11.2	5.29	21.6	5.02	2.41	6.72	6.64	3.44	2.83

Data completeness (Monthly)

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC	Precip.
	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%TP	%PCL
Jan	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Feb	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Mar	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Apr	100	100	100	100	100	100	100	100	100	100	100	100	100	100
May	100	100	100	100	100	100	100	100	100	100	100	100	100	100
June	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July	100	100	100	100	100	100	100	100	100	100	100	100	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	99	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 3.52 Monthly results

Site: Nakhon Ratchasima

Country: Thailand

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	13.1	12.7	32.1	13.7	43.9	6.8	2.3	5.3	5.1	2.8	24.3	4.62	2.30	7.4
Mar	20.9	20.3	34.0	10.2	50.1	8.7	3.1	5.4	5.2	2.7	28.0	4.55	2.20	96.6
Apr	14.5	14.0	36.8	11.4	46.0	8.3	2.6	6.8	6.6	3.0	27.9	4.56	2.24	28.0
May	7.5	7.1	11.4	9.5	16.2	6.6	<1.0	3.1	3.0	2.3	10.5	4.98	0.93	101.2
June	4.8	4.7	9.1	4.1	14.9	2.4	<1.0	33.3	33.2	2.6	2.8	5.55	1.02	163.7
July	7.7	7.1	9.3	8.7	13.9	11.5	<1.0	13.0	12.8	3.4	1.0	6.01	0.71	166.4
Aug	3.8	3.6	6.3	3.7	16.3	2.2	<1.0	4.6	4.5	1.2	1.8	5.74	0.41	147.4
Sept	9.7	9.6	10.9	3.3	35.4	2.2	<1.0	4.1	4.1	1.2	9.1	5.04	0.89	268.8
Oct	7.1	7.1	5.3	2.8	11.3	<1.0	<1.0	2.4	2.4	1.0	7.7	5.11	0.65	175.2
Nov	13.4	12.9	18.4	9.2	58.8	9.5	2.6	9.7	9.5	3.6	5.4	5.27	1.47	35.0
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
Annual	8.2	8.0	11.3	5.5	23.1	4.5	<1.0	9.5	9.4	2.0	7.6	5.12	0.92	1189.7
Max.	66.4	62.8	145	118	144	91.8	17.9	254	254	21.8	58.9	7.22	4.73	
Min.	<1.0	<1.0	1.5	1.1	<1.0	<1.0	<1.0	1.0	1.0	<0.4	<0.1	4.23	0.19	

Wet deposition (Monthly)

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

2006	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	0.10	0.09	0.24	0.10	0.33	0.05	0.02	0.04	0.04	0.02	0.18
Mar	2.01	1.96	3.29	0.98	4.84	0.84	0.30	0.52	0.50	0.26	2.71
Apr	0.41	0.39	1.03	0.32	1.29	0.23	0.07	0.19	0.19	0.08	0.78
May	0.76	0.72	1.15	0.96	1.64	0.67	0.03	0.32	0.30	0.23	1.07
June	0.79	0.76	1.49	0.68	2.43	0.39	0.15	5.45	5.44	0.42	0.46
July	1.29	1.17	1.55	1.44	2.31	1.92	0.06	2.16	2.12	0.57	0.16
Aug	0.55	0.54	0.93	0.55	2.40	0.32	0.03	0.68	0.67	0.18	0.27
Sept	2.61	2.58	2.94	0.88	9.52	0.60	0.09	1.11	1.10	0.33	2.44
Oct	1.24	1.24	0.94	0.50	1.98	0.13	0.05	0.42	0.41	0.18	1.35
Nov	0.47	0.45	0.64	0.32	2.06	0.33	0.09	0.34	0.33	0.13	0.19
Dec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	9.80	9.48	13.5	6.56	27.5	5.30	0.79	11.4	11.2	2.36	9.06

Data completeness (Monthly)

2006	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	95	95	95	100
Mar	71	71	71	71	71	71	71	71	71	71	70	70	70	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	99	99	99	100
July	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Aug	100	100	100	100	100	100	100	100	100	100	99	99	99	100
Sept	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	100	100	100	100
Nov	59	59	59	59	59	59	59	59	59	59	59	59	59	100
Dec	--	--	--	--	--	--	--	--	--	--	--	--	--	100
Annual	96	96	96	96	96	96	96	96	96	96	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 3.53 Monthly results

Site: Hanoi

Country: Viet Nam

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	83.6	75.8	369	334	234	130	40.9	207	204	58.1	<0.1	7.15	12.9	0.8
Feb	231	227	121	78.9	203	66.7	11.6	155	153	43.7	0.6	6.25	9.36	16.5
Mar	159	156	98.9	63.2	171	51.1	12.5	85.7	84.6	46.6	0.5	6.34	7.11	34.6
Apr	97.7	94.8	71.9	47.8	108	48.1	7.4	74.9	73.9	31.6	0.2	6.75	5.13	19.8
May	53.6	52.9	35.7	17.4	59.6	11.8	2.7	45.2	44.9	10.1	0.3	6.48	2.54	141.7
June	17.8	17.6	12.4	5.8	22.0	3.6	1.0	12.2	12.1	3.7	1.9	5.73	0.87	198.2
July	30.1	29.8	8.6	3.1	30.3	5.9	1.8	12.4	12.3	5.3	1.8	5.75	1.12	166.0
Aug	32.0	31.2	13.9	12.4	32.9	12.8	3.4	26.7	26.4	6.4	0.9	6.05	1.65	495.9
Sept	280	278	102	49.8	195	33.2	20.1	236	236	16.6	0.5	6.31	10.6	27.3
Oct	294	292	195	70.2	192	34.6	24.1	274	273	20.4	0.9	6.04	12.0	12.8
Nov	25.8	25.0	19.9	17.1	22.8	13.9	3.8	17.9	17.6	4.7	9.3	5.03	1.56	115.8
Dec	*	*	*	*	*	*	*	*	*	*	*	*	*	1.2
Annual	46.9	46.1	24.9	15.6	45.7	13.5	3.8	35.2	35.0	8.6	1.8	5.73	2.18	1230.6
Max.	404	400	369	334	239	130	40.9	514	512	58.1	9.3	7.36	17.8	
Min.	10.8	10.7	6.4	1.2	8.6	1.7	<1.0	6.4	6.3	2.2	<0.1	5.03	0.57	

Wet deposition (Monthly)

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

2006	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
Jan	0.07	0.06	0.29	0.27	0.19	0.10	0.03	0.17	0.16	0.05	<0.01
Feb	3.81	3.74	2.00	1.30	3.35	1.10	0.19	2.55	2.53	0.72	<0.01
Mar	5.50	5.39	3.42	2.19	5.90	1.77	0.43	2.97	2.93	1.61	0.02
Apr	1.94	1.88	1.42	0.95	2.13	0.95	0.15	1.48	1.46	0.63	<0.01
May	7.60	7.50	5.06	2.46	8.44	1.68	0.38	6.40	6.36	1.44	0.05
June	3.52	3.48	2.46	1.15	4.36	0.71	0.21	2.42	2.40	0.73	0.37
July	5.00	4.94	1.43	0.51	5.03	0.98	0.29	2.06	2.04	0.88	0.29
Aug	15.8	15.5	6.90	6.15	16.3	6.37	1.67	13.2	13.1	3.19	0.44
Sept	7.63	7.58	2.78	1.36	5.34	0.91	0.55	6.46	6.44	0.45	0.01
Oct	3.77	3.74	2.49	0.90	2.45	0.44	0.31	3.51	3.50	0.26	0.01
Nov	2.99	2.90	2.30	1.98	2.64	1.61	0.44	2.08	2.04	0.54	1.08
Dec	*	*	*	*	*	*	*	*	*	*	*
Annual	57.7	56.7	30.6	19.2	56.2	16.6	4.65	43.4	43.0	10.5	2.28

Data completeness (Monthly)

2006	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	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Dec	0	0	0	0	0	0	0	0	0	0	0	0	0	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 3.54 Monthly results

Site: Hoa Binh

Country: Viet Nam

Volume-weighted mean concentrations/ Precipitation (Monthly)

2006	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	56.6	55.1	67.3	38.3	111	25.4	7.3	31.7	31.2	14.9	3.7	5.43	3.39	5.5
Mar	40.5	38.9	62.6	41.9	110	26.7	9.4	21.7	21.1	15.3	1.8	5.75	2.79	20.2
Apr	33.3	33.0	50.4	8.0	53.3	4.7	4.8	22.5	22.4	15.3	1.0	6.02	1.78	70.8
May	24.7	24.5	24.5	4.8	30.0	2.9	2.6	18.6	18.6	7.2	2.2	5.65	1.26	206.7
June	27.3	26.8	16.2	7.5	23.6	9.0	3.4	22.8	22.6	7.0	0.8	6.08	1.30	184.8
July	11.9	11.9	7.4	1.5	12.1	<1.0	<1.0	7.8	7.8	3.7	2.9	5.53	0.61	292.0
Aug	13.9	13.8	5.1	1.9	13.4	1.1	<1.0	11.9	11.9	2.4	1.7	5.78	0.70	473.4
Sept	49.2	48.5	18.2	14.0	39.0	11.9	4.7	40.7	40.5	3.2	2.7	5.56	2.15	151.5
Oct	81.2	80.5	47.3	26.0	114	12.4	7.9	35.3	35.0	13.9	4.8	5.32	3.69	79.5
Nov	17.5	17.1	15.0	11.6	20.1	6.1	2.9	6.8	6.7	3.1	13.0	4.89	1.15	61.1
Dec	*	*	*	*	*	*	*	*	*	*	*	*	*	0.4
Annual	24.9	24.6	16.1	6.5	27.6	4.5	2.4	17.8	17.7	5.3	2.6	5.59	1.22	1545.9
Max.	225	223	167	98.1	379	54.1	30.4	98.4	97.6	39.8	14.1	6.67	10.6	
Min.	5.5	5.4	2.0	<1.0	2.8	<1.0	<1.0	4.1	4.0	2.0	0.2	4.85	0.45	

Wet deposition (Monthly)

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

2006	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	0.31	0.30	0.37	0.21	0.61	0.14	0.04	0.17	0.17	0.08	0.02
Mar	0.82	0.79	1.27	0.85	2.23	0.54	0.19	0.44	0.43	0.31	0.04
Apr	2.35	2.33	3.57	0.57	3.77	0.33	0.34	1.59	1.58	1.09	0.07
May	5.10	5.06	5.07	1.00	6.20	0.60	0.54	3.85	3.84	1.49	0.46
June	5.05	4.95	3.00	1.38	4.36	1.66	0.64	4.20	4.17	1.30	0.15
July	3.47	3.47	2.17	0.45	3.54	0.12	0.25	2.29	2.29	1.08	0.86
Aug	6.59	6.55	2.42	0.89	6.34	0.54	0.31	5.63	5.62	1.12	0.79
Sept	7.45	7.35	2.76	2.12	5.91	1.80	0.70	6.17	6.13	0.48	0.41
Oct	6.46	6.40	3.76	2.06	9.05	0.98	0.63	2.80	2.78	1.10	0.38
Nov	1.07	1.04	0.91	0.71	1.23	0.37	0.17	0.42	0.41	0.19	0.79
Dec	*	*	*	*	*	*	*	*	*	*	*
Annual	38.5	38.1	25.0	9.99	42.7	6.94	3.76	27.5	27.4	8.17	3.98

Data completeness (Monthly)

2006	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	62	62	62	62	62	62	62	62	62	62	62	62	62	100
Mar	77	77	77	77	77	77	77	77	77	77	77	77	77	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	99	99	99	99	99	99	99	99	99	99	99	99	99	100
Nov	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dec	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Annual	99	99	99	99	99	99	99	99	99	99	99	99	99	100

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

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

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

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

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

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

Table 3.55 Annual precipitation and volume-weighted mean concentrations in 2006

Country	Name of sites	Code	Precip.	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺	pH	EC
			mm y ⁻¹	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L	μmol/L
Cambodia	Phnom Penh	<i>KH 11052</i>	948.5	5.3	5.1	9.1	6.2	17.9	1.8	1.5	9.1	9.1	0.7	0.2	6.72	1.17
China	Guanyinqiao	<i>CN 11001</i>	841.9	177	177	60.7	19.3	179	7.9	12.6	143	143	12.6	13.7	4.86	6.70
	Jinyunshan	<i>CN 11003</i>	1196.0	141	140	46.1	13.6	121	6.6	11.4	98.3	98.2	4.0	20.4	4.69	5.45
	Shizhan	<i>CN 11004</i>	482.6	274	271	81.7	35.8	167	45.2	18.0	301	300	28.3	2.8	5.56	9.81
	Weishuiyuan	<i>CN 11005</i>	315.6	330	326	104	51.1	239	66.9	33.6	330	328	42.0	1.5	5.84	13.4
	Jiwozi	<i>CN 11007</i>	234.4	128	124	50.7	33.2	48.6	65.6	20.8	221	220	40.6	1.4	5.87	6.95
	Hongwen	<i>CN 11008</i>	2133.8	28.6	27.0	22.4	45.9	29.1	30.8	3.3	25.5	24.8	5.4	14.7	4.83	2.31
	Xiaoping	<i>CN 11009</i>	2351.8	16.9	16.1	16.0	22.3	21.5	23.2	13.5	10.5	10.0	2.8	16.5	4.78	2.19
	Xiang Zhou	<i>CN 11010</i>	1529.0	29.2	27.0	21.8	44.6	56.7	35.5	8.2	14.1	13.3	12.0	13.4	4.87	2.20
Zhuxian Cavern	<i>CN 11011</i>	887.0	19.3	18.0	13.2	29.3	27.4	22.6	2.6	17.1	16.7	5.0	15.0	4.82	2.67	
Indonesia	Jakarta	<i>ID 11012</i>	1480.8	26.2	25.4	20.5	15.6	17.4	13.1	8.0	18.8	18.5	8.6	41.5	4.38	1.92
	Serpong	<i>ID 11013</i>	1602.6	28.2	27.7	28.3	10.9	40.3	7.5	4.5	7.2	7.0	1.7	25.0	4.60	2.10
	Kototabang	<i>ID 11014</i>	1247.6	7.7	7.3	1.4	7.8	9.9	6.2	4.6	5.2	5.1	2.3	29.4	4.53	0.88
	Bandung	<i>ID 11015</i>	1311.4	26.8	25.7	23.1	14.1	46.5	18.3	4.8	14.8	14.4	3.3	7.0	5.15	1.69
Japan	Rishiri	<i>JP 11016</i>	1293.8	22.9	16.3	14.0	126	17.5	110	3.7	5.3	3.0	12.6	21.5	4.67	3.04
	Ochiishi	<i>JP 11050</i>	996.9	27.7	11.3	11.4	317	15.6	278	7.7	10.2	4.3	31.2	13.8	4.86	5.00
	Tappi	<i>JP 11017</i>	963.7	35.8	18.4	22.5	326	18.9	289	7.1	12.7	6.5	33.3	26.5	4.58	5.98
	Sado-seki	<i>JP 11019</i>	1263.6	28.3	14.8	18.9	256	16.6	224	5.7	12.1	7.3	25.9	19.7	4.70	3.81
	Happo	<i>JP 11021</i>	2755.2	10.3	10.1	8.3	5.7	9.0	4.1	<1.0	6.3	6.2	1.0	10.7	4.97	0.84
	Ijira	<i>JP 11022</i>	2828.6	20.6	20.0	24.2	14.4	22.8	10.8	<1.0	2.9	2.7	1.6	31.0	4.51	2.15
	Oki	<i>JP 11023</i>	1396.3	29.5	15.8	18.2	253	12.8	225	6.6	11.4	6.9	26.9	18.7	4.73	4.77
	Banryu	<i>JP 11024</i>	1959.7	22.0	18.0	19.5	76.0	14.9	66.4	2.2	9.5	8.1	8.3	20.5	4.69	2.54
	Yusuhara	<i>JP 11025</i>	3160.4	10.1	9.4	7.6	14.0	7.5	11.9	<1.0	2.6	2.4	1.7	14.4	4.84	1.08
	Hedo	<i>JP 11027</i>	1863.3	19.2	7.9	8.1	217	8.6	189	4.7	9.2	5.1	21.8	10.1	4.99	3.58
Ogasawara	<i>JP 11018</i>	1584.9	10.2	4.2	4.8	119	4.6	103	2.5	3.6	1.4	11.4	10.1	4.99	2.14	
Lao PDR	Vientian	<i>LA 11051</i>	708.9	3.5	3.0	6.9	4.8	7.7	7.1	3.5	8.7	8.6	3.5	0.3	6.49	0.76
Malaysia	Petaling Jaya	<i>MY 11029</i>	4009.2	20.6	20.3	30.0	6.9	23.3	4.3	1.6	3.8	3.7	0.7	37.8	4.42	1.81
	Tanah Rata	<i>MY 11030</i>	2784.9	4.4	4.3	5.3	2.1	3.5	1.4	<1.0	1.1	1.1	<0.4	11.3	4.95	0.51
	Danum Valley	<i>MY 11053</i>	3005.3	3.4	3.1	1.4	7.2	2.0	5.6	1.0	1.3	1.2	0.5	8.9	5.05	0.46
Mongolia	Ulaanbaatar	<i>MN 11031</i>	187.9	25.4	24.9	18.6	7.8	53.7	8.4	5.2	45.9	45.7	4.4	0.4	6.45	1.92
	Terelj	<i>MN 11032</i>	214.6	23.8	23.0	15.5	9.3	54.6	12.5	9.0	24.8	24.5	4.8	6.9	5.16	1.95
Philippines	Metro Manila	<i>PH 11033</i>	2695.6	17.6	16.5	12.3	23.1	40.5	17.2	12.6	13.7	13.3	5.5	5.0	5.30	1.66
	Los Banos	<i>PH 11034</i>	2222.4	10.8	9.4	8.1	21.0	16.3	22.7	2.5	6.9	6.4	3.4	2.4	5.61	1.08
	Mt. Sto. Tomas	<i>PH 11055</i>	430.5	1.4	1.2	1.9	1.6	<1.0	2.8	1.3	5.6	5.6	1.0	0.5	6.32	0.22
Republic of Korea	Kanghwa	<i>KR 11035</i>	1091.6	37.0	35.2	33.0	36.0	53.0	28.8	4.9	15.8	15.2	5.1	21.0	4.68	2.75
	Cheju (Kosan)	<i>KR 11036</i>	1127.2	28.1	22.9	25.5	102	26.1	85.0	6.0	9.0	7.2	9.6	45.9	4.34	3.64
	Imsil	<i>KR 11037</i>	708.5	26.8	24.9	27.7	77.5	50.2	31.1	42.1	14.7	14.0	4.0	6.5	5.19	2.51
Russia	Mondy	<i>RU 11038</i>	410.3	4.7	4.6	5.1	4.5	3.7	1.6	1.1	5.5	5.4	1.0	4.1	5.39	0.43
	Listvyanka	<i>RU 11039</i>	310.8	19.0	18.8	14.6	3.5	15.5	2.8	1.5	8.8	8.8	1.7	22.8	4.64	1.51
	Irkutsk	<i>RU 11040</i>	357.3	26.0	25.4	16.5	12.5	24.9	10.0	7.6	29.9	29.7	5.8	7.0	5.15	1.76
	Primorskaya	<i>RU 11041</i>	622.9	46.0	45.0	29.2	18.0	49.8	16.8	5.5	25.0	24.7	5.5	15.0	4.83	2.47
Thailand	Bangkok	<i>TH 11042</i>	1588.6	22.3	21.8	33.0	10.8	56.1	8.7	2.8	18.4	18.2	2.3	6.9	5.16	1.94
	Samutprakarn	<i>TH 11043</i>	1420.0	20.7	19.7	14.1	12.5	49.9	14.6	4.3	14.8	14.5	4.6	1.4	5.87	1.56
	Patumthani	<i>TH 11044</i>	1607.7	13.4	13.0	22.0	6.8	33.5	7.5	1.7	12.8	12.7	1.8	13.0	4.89	1.42
	Khanchanaburi	<i>TH 11045</i>	2518.1	4.0	3.7	6.1	6.3	17.5	6.9	2.4	2.7	2.6	1.0	1.8	5.75	0.46
	Chiang Mai (Mae Hia)	<i>TH 11046</i>	1419.8	4.5	4.3	7.9	3.7	15.2	3.5	1.7	4.7	4.7	2.4	2.0	5.70	0.59
	Nakhon Ratchasima	<i>TH 11054</i>	1189.7	8.2	8.0	11.3	5.5	23.1	4.5	<1.0	9.5	9.4	2.0	7.6	5.12	0.92
Viet Nam	Hanoi	<i>VN 11047</i>	1230.6	46.9	46.1	24.9	15.6	45.7	13.5	3.8	35.2	35.0	8.6	1.8	5.73	2.18
	Hoa Binh	<i>VN 11048</i>	1545.9	24.9	24.6	16.1	6.5	27.6	4.5	2.4	17.8	17.7	5.3	2.6	5.59	1.22

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 2006

Country	Name of sites	Code	SO ₄ ²⁻	nss-SO ₄ ²⁻	NO ₃ ⁻	Cl ⁻	NH ₄ ⁺	Na ⁺	K ⁺	Ca ²⁺	nss-Ca ²⁺	Mg ²⁺	H ⁺
			mmol m ⁻² y ⁻¹	mmol m ⁻² y ⁻¹	mmol m ⁻² y ⁻¹	mmol m ⁻² y ⁻¹	mmol m ⁻² y ⁻¹	mmol m ⁻² y ⁻¹	mmol m ⁻² y ⁻¹	mmol m ⁻² y ⁻¹	mmol m ⁻² y ⁻¹	mmol m ⁻² y ⁻¹	mmol m ⁻² y ⁻¹
Cambodia	Phnom Penh	KH 11052	5.04	4.82	8.59	5.88	17.0	1.75	1.41	8.64	8.61	0.63	0.18
China	Guanyinqiao	CN 11001	149	149	51.1	16.2	151	6.66	10.6	120	120	10.6	11.6
	Jinyunshan	CN 11003	169	168	55.2	16.2	145	7.95	13.6	118	117	4.78	24.4
	Shizhan	CN 11004	132	131	39.4	17.3	80.7	21.8	8.67	145	145	13.6	1.33
	Weishuiyuan	CN 11005	104	103	32.8	16.1	75.4	21.1	10.6	104	104	13.3	0.46
	Jiwozi	CN 11007	30.0	29.1	11.9	7.77	11.4	15.4	4.88	51.9	51.6	9.51	0.32
	Hongwen	CN 11008	61.1	57.7	47.7	98.0	62.0	65.6	7.14	54.4	53.0	11.6	31.4
	Xiaoping	CN 11009	39.7	37.9	37.7	52.4	50.5	54.5	31.7	24.7	23.5	6.52	38.9
	Xiang Zhou	CN 11010	44.6	41.3	33.3	68.1	86.6	54.3	12.5	21.6	20.4	18.3	20.4
Zhuxian Cavern	CN 11011	17.1	15.9	11.7	25.9	24.3	20.0	2.32	15.2	14.8	4.43	13.3	
Indonesia	Jakarta	ID 11012	38.7	37.6	30.4	23.0	25.7	19.3	11.9	27.9	27.5	12.7	61.4
	Serpong	ID 11013	45.2	44.4	45.4	17.4	64.6	12.0	7.14	11.5	11.3	2.78	40.1
	Kototabang	ID 11014	9.55	9.08	1.74	9.74	12.3	7.75	5.69	6.48	6.31	2.82	36.6
	Bandung	ID 11015	35.1	33.7	30.3	18.6	61.0	24.0	6.31	19.4	18.9	4.27	9.18
Japan	Rishiri	JP 11016	29.6	21.0	18.2	163	22.6	142	4.85	6.90	3.87	16.3	27.8
	Ochiishi	JP 11050	27.6	11.3	11.3	316	15.6	277	7.64	10.2	4.29	31.1	13.8
	Tappi	JP 11017	34.5	17.8	21.7	314	18.2	278	6.86	12.3	6.26	32.1	25.5
	Sado-seki	JP 11019	35.7	18.7	23.9	324	21.0	283	7.20	15.3	9.20	32.7	24.9
	Happo	JP 11021	28.4	27.8	22.7	15.6	24.7	11.4	1.42	17.3	17.0	2.64	29.4
	Ijira	JP 11022	58.3	56.5	68.5	40.8	64.5	30.7	2.77	8.17	7.51	4.63	87.6
	Oki	JP 11023	41.1	22.0	25.4	353	17.8	315	9.16	15.9	9.57	37.6	26.1
	Banryu	JP 11024	43.1	35.3	38.3	149	29.1	130	4.37	18.6	15.8	16.3	40.1
	Yusuhara	JP 11025	31.9	29.7	23.9	44.4	23.8	37.5	2.15	8.25	7.44	5.25	45.4
	Hedo	JP 11027	35.8	14.7	15.1	404	15.9	351	8.77	17.2	9.59	40.7	18.9
Ogasawara	JP 11018	16.2	6.58	7.57	188	7.27	163	4.01	5.68	2.17	18.1	16.1	
Lao PDR	Vientian	LA 11051	2.45	2.15	4.92	3.38	5.47	5.04	2.49	6.20	6.09	2.47	0.23
Malaysia	Petaling Jaya	MY 11029	82.5	81.4	120	27.8	93.3	17.1	6.23	15.2	14.9	2.85	151
	Tanah Rata	MY 11030	12.3	12.1	14.9	5.85	9.84	3.93	1.74	3.20	3.13	0.45	31.3
	Danum Valley	MY 11053	10.2	9.23	4.24	21.5	6.15	16.9	3.05	3.79	3.49	1.45	26.8
Mongolia	Ulaanbaatar	MN 11031	4.78	4.68	3.50	1.46	10.1	1.58	0.97	8.63	8.59	0.83	0.07
	Terelj	MN 11032	5.10	4.93	3.32	1.99	11.7	2.68	1.93	5.32	5.26	1.04	1.48
Philippines	Metro Manila	PH 11033	47.4	44.6	33.1	62.3	109	46.3	34.0	36.8	35.8	14.7	13.5
	Los Banos	PH 11034	23.9	21.0	18.1	46.7	36.2	50.5	5.53	15.4	14.3	7.65	5.42
	Mt. Sto. Tomas	PH 11055	0.59	0.52	0.80	0.68	0.29	1.21	0.57	2.43	2.40	0.42	0.20
Republic of Korea	Kanghwa	KR 11035	40.3	38.5	36.1	39.2	57.9	31.5	5.31	17.2	16.6	5.57	23.0
	Cheju (Kosan)	KR 11036	31.6	25.9	28.8	116	29.5	95.8	6.80	10.2	8.13	10.8	51.8
	Imsil	KR 11037	19.0	17.6	19.6	54.9	35.5	22.0	29.9	10.4	9.93	2.83	4.57
Russia	Mondy	RU 11038	1.93	1.89	2.09	1.83	1.52	0.64	0.45	2.24	2.23	0.40	1.67
	Listvyanka	RU 11039	5.90	5.85	4.54	1.09	4.82	0.87	0.48	2.74	2.72	0.53	7.10
	Irkutsk	RU 11040	9.28	9.07	5.89	4.48	8.89	3.58	2.73	10.7	10.6	2.06	2.52
	Primorskaya	RU 11041	28.6	28.0	18.2	11.2	31.0	10.5	3.41	15.6	15.4	3.43	9.32
Thailand	Bangkok	TH 11042	35.5	34.6	52.4	17.1	89.0	13.8	4.50	29.2	28.9	3.72	11.0
	Samutprakarn	TH 11043	29.4	28.0	20.0	17.7	70.8	20.8	6.12	21.0	20.6	6.57	1.93
	Patumthani	TH 11044	21.6	20.8	35.4	11.0	53.9	12.0	2.67	20.6	20.4	2.82	20.9
	Khanchanaburi	TH 11045	10.2	9.24	15.5	15.9	44.1	17.3	6.16	6.82	6.44	2.47	4.48
	Chiang Mai (Mae Hia)	TH 11046	6.44	6.16	11.2	5.29	21.6	5.02	2.41	6.72	6.64	3.44	2.83
	Nakhon Ratchasima	TH 11054	9.80	9.48	13.5	6.56	27.5	5.30	0.79	11.4	11.2	2.36	9.06
Viet Nam	Hanoi	VN 11047	57.7	56.7	30.6	19.2	56.2	16.6	4.65	43.4	43.0	10.5	2.28
	Hoa Binh	VN 11048	38.5	38.1	25.0	10.0	42.7	6.94	3.76	27.5	27.4	8.17	3.98

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 2006 (%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	96	100	87	100	100	87	87	87	87	87	87	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	98	98	98	98	98	98	98	98	98	98	98	98	98
	Shizhan	CN 11004	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Weishuiyuan	CN 11005	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Jiwozi	CN 11007	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Hongwen	CN 11008	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Xiaoping	CN 11009	100	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	58	100	100	100	100	100	100	100	100	100	100	100	100	100	
Indonesia	Jakarta	ID 11012	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Serpong	ID 11013	100	96	96	96	96	100	100	100	100	100	100	100	100	100
	Kototabang	ID 11014	75	87	87	87	87	87	87	87	87	87	87	87	87	87
	Bandung	ID 11015	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Japan	Rishiri	JP 11016	100	96	96	96	96	96	96	96	96	96	96	96	96
Ochiishi		JP 11050	95	80	80	80	80	76	80	80	80	80	80	79	79	79
Tappi		JP 11017	98	91	91	91	91	91	91	91	91	91	91	89	89	89
Sado-seki		JP 11019	99	97	97	97	97	97	97	97	97	97	97	95	95	95
Happo		JP 11021	100	95	95	95	95	95	95	95	95	95	95	95	95	95
Ijira		JP 11022	96	83	83	83	83	83	83	83	83	83	83	83	83	83
Oki		JP 11023	100	99	99	99	99	99	99	99	99	99	99	98	98	98
Banryu		JP 11024	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Yusuhara		JP 11025	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Hedo		JP 11027	100	100	100	100	100	100	100	100	100	100	100	99	99	99
Ogasawara	JP 11018	96	78	78	78	78	78	78	78	78	78	78	78	78	78	
Lao PDR	Vientian	LA 11051	100	76	76	76	76	76	76	76	76	76	76	100	100	100
Malaysia	Petaling Jaya	MY 11029	100	99	99	99	99	99	99	99	99	99	99	99	99	99
	Tanah Rata	MY 11030	100	99	99	99	99	99	99	99	99	99	99	98	98	98
	Danum Valley	MY 11053	100	87	87	87	87	87	87	87	87	87	87	86	86	86
Mongolia	Ulaanbaatar	MN 11031	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Terej	MN 11032	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Philippines	Metro Manila	PH 11033	100	52	52	52	52	52	52	52	52	52	52	52	52	52
	Los Banos	PH 11034	100	94	94	94	94	94	94	94	94	94	94	94	94	94
	Mt. Sto. Tomas	PH 11055	24	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	86	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	100	100	100	100	100	100	100	100	100	100	100	100	100
	Listvyanka	RU 11039	100	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	97	96	97	97	96	96	96	96	96	96	96	96	96
	Patumthani	TH 11044	100	98	98	98	98	98	98	98	98	98	98	98	98	98
	Khanchanaburi	TH 11045	100	51	51	51	51	51	51	51	51	51	51	51	51	51
	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	96	96	96	96	96	96	96	96	96	96	96	96	96
Viet Nam	Hanoi	VN 11047	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	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%)

Table 3.58 Results of ion balance and conductivity agreement check in 2006

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	21	19	3	16	19	3	16	19	1	5
China	Guanyinqiao	CN 11001	96	91	80	88	91	84	92	91	75	82
	Jinyunshan	CN 11003	99	96	87	91	96	94	98	96	86	90
	Shizhan	CN 11004	35	34	13	38	34	27	79	34	12	35
	Weishuiyuan	CN 11005	35	34	16	47	34	28	82	34	15	44
	Jiwozi	CN 11007	63	62	17	27	62	43	69	62	7	11
	Hongwen	CN 11008	78	77	38	49	77	50	65	77	28	36
	Xiaoping	CN 11009	79	78	34	44	78	62	79	78	29	37
	Xiang Zhou Zhuxian Cavern	CN 11010 CN 11011	42 30	41 29	19 7	46 24	41 29	25 15	61 52	41 29	13 4	32 14
Indonesia	Jakarta	ID 11012	27	26	7	27	26	11	42	26	5	19
	Serpong	ID 11013	63	61	56	92	61	58	95	61	56	92
	Kototabang	ID 11014	25	24	1	4	24	12	50	24	1	4
	Bandung	ID 11015	88	87	81	93	87	87	100	87	81	93
Japan	Rishiri	JP 11016	172	147	145	99	147	147	100	147	145	99
	Ochiishi	JP 11050	134	81	80	99	81	81	100	81	80	99
	Tappi	JP 11017	131	98	95	97	98	97	99	98	94	96
	Sado-seki	JP 11019	184	109	104	95	109	109	100	109	104	95
	Happo	JP 11021	202	183	182	99	183	183	100	183	182	99
	Ijira	JP 11022	47	39	39	100	39	39	100	39	39	100
	Oki	JP 11023	185	137	131	96	137	136	99	137	131	96
	Banryu	JP 11024	50	48	47	98	48	48	100	48	47	98
	Yusuhara	JP 11025	169	165	158	96	165	162	98	165	156	95
	Hedo	JP 11027	162	138	134	97	138	137	99	138	133	96
Ogasawara	JP 11018	149	99	98	99	99	99	100	99	98	99	
Lao PDR	Vientian	LA 11051	73	16	6	38	16	6	38	16	2	13
Malaysia	Petaling Jaya	MY 11029	53	46	42	91	46	42	91	46	38	83
	Tanah Rata	MY 11030	52	45	37	82	45	45	100	45	37	82
	Danum Valley	MY 11053	49	46	36	78	46	45	98	46	35	76
Mongolia	Ulaanbaatar	MN 11031	43	41	7	17	41	37	90	41	7	17
	Terelj	MN 11032	49	47	12	26	47	41	87	47	11	23
Philippines	Metro Manila	PH 11033	44	26	17	65	26	15	58	26	12	46
	Los Banos	PH 11034	43	40	33	83	40	35	88	40	31	78
	Mt. Sto. Tomas	PH 11055	12	11	10	91	11	9	82	11	9	82
Republic of Korea	Kanghwa	KR 11035	31	30	30	100	30	30	100	30	30	100
	Cheju (Kosan)	KR 11036	50	49	49	100	49	49	100	49	49	100
	Imsil	KR 11037	25	24	23	96	24	23	96	24	23	96
Russia	Mondy	RU 11038	27	26	26	100	26	26	100	26	26	100
	Listvyanka	RU 11039	66	63	63	100	63	63	100	63	63	100
	Irkutsk	RU 11040	100	96	96	100	96	96	100	96	96	100
	Primorskaya	RU 11041	90	76	74	97	76	74	97	76	74	97
Thailand	Bangkok	TH 11042	69	67	21	31	67	38	57	67	11	16
	Samutprakarn	TH 11043	93	90	29	32	90	74	82	90	21	23
	Patumthani	TH 11044	100	96	26	27	96	90	94	96	24	25
	Khanchanaburi	TH 11045	74	73	24	33	73	41	56	73	21	29
	Chiang Mai (Mae Hia)	TH 11046	113	106	40	38	100	72	72	100	22	22
	Nakhon Ratchasima	TH 11054	119	103	47	46	103	98	95	103	46	45
Viet Nam	Hanoi	VN 11047	30	29	26	90	29	29	100	29	26	90
	Hoa Binh	VN 11048	33	32	31	97	32	32	100	32	31	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
Cambodia	Phnom Penh	<i>KH 11052</i>					418.9	1307.8	948.5
China	Guanyinqiao	<i>CN 11001</i>	1081.1	751.6	1445.3	986.7	1386.7	1077.2	841.9
	Nanshan	<i>CN 11002</i>	1259.4						
	Jinyunshan	<i>CN 11003</i>		710.1	1606.6	1232.5	1517.7	1461.4	1196.0
	Shizhan	<i>CN 11004</i>	559.1	363.9	349.0	1273.2	600.9	508.8	482.6
	Weishuiyuan	<i>CN 11005</i>	447.4	69.3	232.0	1302.1	465.6	438.9	315.6
	Dabagou	<i>CN 11006</i>	829.3						
	Jiwozi	<i>CN 11007</i>		208.8	141.7	610.8	1019.6	361.6	234.4
	Hongwen	<i>CN 11008</i>	1517.2	295.5	1567.5	1301.3	1064.9	1701.6	2133.8
	Xiaoping	<i>CN 11009</i>	1566.4	2681.5	2170.7	1767.8	1958.4	2921.3	2351.8
	Xiang Zhou	<i>CN 11010</i>	2030.5	1989.5	1731.4	1726.0	1339.8	1179.1	1529.0
	Zhuxian Cavern	<i>CN 11011</i>	1778.8	2570.8	1581.0	1754.9	1276.8	1062.0	887.0
Indonesia	Jakarta	<i>ID 11012</i>	1577.4	1236.7	1572.3	1617.3	1468.7	2125.3	1480.8
	Serpong	<i>ID 11014</i>	***	1606.7	2505.2	2142.8	1462.4	824.2	1602.6
	Kototabang	<i>ID 11013</i>	2339.8	1208.7	1797.6	3126.7	2110.9	2193.9	1247.6
	Bandung	<i>ID 11015</i>	893.3	2604.7	2540.7	1606.1	894.5	1749.3	1311.4
Japan	Rishiri	<i>JP 11016</i>	769.9	614.9	957.0	708.6	945.4	961.0	1293.8
	Ochiishi	<i>JP 11050</i>				781.8	648.0	822.2	996.9
	Tappi	<i>JP 11017</i>	1048.8	1081.6	1329.4	1149.6	1473.0	1240.2	963.7
	Sado-seki	<i>JP 11019</i>	1067.7	970.5	1432.9	1126.3	1539.2	1143.0	1263.6
	Happo	<i>JP 11021</i>	2187.9	2345.1	2607.3	2461.4	3088.1	2996.6	2755.2
	Ijira	<i>JP 11022</i>	2685.2	2236.5	2648.3	2967.0	3424.4	2569.4	2828.6
	Oki	<i>JP 11023</i>	1209.1	1245.8	1570.8	1596.9	1408.6	1313.3	1396.3
	Banryu	<i>JP 11024</i>	1565.2	1788.0	1303.0	1752.1	1737.6	1290.3	1959.7
	Yusuhara	<i>JP 11025</i>	2800.7	2080.1	2345.9	2839.3	3970.3	2321.4	3160.4
	Hedo	<i>JP 11027</i>	2906.8	2125.6	2032.4	1392.6	1778.2	1779.9	1863.3
	Ogasawara	<i>JP 11018</i>	1984.9	1805.7	1330.5	1398.4	1170.5	2050.3	1584.9
Lao PDR	Vientian	<i>LA 11051</i>				88.6	441.8	665.5	708.9
Malaysia	Petaling Jaya	<i>MY 11029</i>	3417.4	3085.3	2660.4	3040.5	2996.0	2847.5	4009.2
	Tanah Rata	<i>MY 11030</i>	3127.4	2626.3	2782.6	3009.5	2415.4	2886.1	2784.9
	Danum Valley	<i>MY 11053</i>						1256.3	3005.3
Mongolia	Ulaanbaatar	<i>MN 11031</i>	196.5	165.8	178.5	297.2	83.4	150.3	187.9
	Terelj	<i>MN 11032</i>	207.6	88.6	246.0	311.7	207.1	245.8	214.6
Philippines	Metro Manila	<i>PH 11033</i>	4035.6	2291.2	2974.6	2204.8	2163.6	2376.7	2695.6
	Los Banos	<i>PH 11034</i>	2635.2	1816.5	1701.6	1608.2	1743.3	1643.1	2222.4
	Mt. Sto. Tomas	<i>PH 11055</i>							430.5
Republic of Korea	Kanghwa	<i>KR 11035</i>	1117.6	1139.4	824.1	1573.3	877.6	811.3	1091.6
	Cheju (Kosan)	<i>KR 11036</i>	1058.4	1113.7	1016.8	1291.3	1123.9	699.1	1127.2
	Imsil	<i>KR 11037</i>		1299.1	992.6	1875.5	1207.3	1248.1	708.5
Russia	Mondy	<i>RU 11038</i>	304.7	319.3	203.7	408.5	359.8	286.1	410.3
	Listvyanka	<i>RU 11039</i>	441.6	493.6	360.3	540.1	551.1	451.8	310.8
	Irkutsk	<i>RU 11040</i>	534.4	468.4	302.5	456.7	553.2	441.7	357.3
	Primorskaya	<i>RU 11041</i>			834.7	322.7	691.5	737.1	622.9
Thailand	Bangkok	<i>TH 11042</i>	1147.9	1173.9	1300.3	1384.7	1211.4	2006.4	1588.6
	Samutprakarn	<i>TH 11043</i>	977.7				1260.4	1625.1	1420.0
	Patumthani	<i>TH 11044</i>	955.6	1348.5	948.0	1658.0	976.2	1268.2	1607.7
	Khanchanaburi	<i>TH 11045</i>	881.3	1516.0	2199.7	1626.9	1391.6	2043.3	2518.1
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		1083.9	1472.6	808.0	1151.5	1429.8	1419.8
	Nakhon Ratchasima	<i>TH 11054</i>							1189.7
Viet Nam	Hanoi	<i>VN 11047</i>	1256.3	2254.7	1416.1	1585.6	1574.9	1761.0	1230.6
	Hoa Binh	<i>VN 11048</i>	1893.6	2223.2	1625.9	1691.3	1830.8	2279.0	1545.9

[***]: No data or not measured

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

Black column: Monitoring was not carried out

Table 3.60 Volume-weighted annual mean concentrations of SO₄²⁻

unit: μmol/L

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

[***]: No data or not measured

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

■ Black column: Monitoring was not carried out

Table 3.61 Volume-weighted annual mean concentrations of nss-SO₄²⁻

unit: µmol/L

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

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

unit: µmol/L

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006
Cambodia	Phnom Penh	KH 11052					7.7	***	9.1
China	Guanyinqiao	CN 11001	42.1	52.8	34.4	38.9	43.9	41.3	60.7
	Nanshan	CN 11002	41.6						
	Jinyunshan	CN 11003		40.3	29.4	34.4	36.8	34.4	46.1
	Shizhan	CN 11004	87.0	153	150	68.0	61.7	12.1	81.7
	Weishuiyuan	CN 11005	95.8	210	168	54.1	69.6	11.4	104
	Dabagou	CN 11006	29.1						
	Jiwozi	CN 11007		140	89.8	42.8	26.4	9.3	50.7
	Hongwen	CN 11008	18.7	37.9	30.7	33.6	49.8	37.3	22.4
	Xiaoping	CN 11009	14.6	18.7	14.8	22.6	19.6	18.1	16.0
	Xiang Zhou	CN 11010	15.6	14.1	17.8	20.9	22.1	17.2	21.8
	Zhuxian Cavern	CN 11011	33.5	22.2	20.8	11.5	25.0	21.5	13.2
Indonesia	Jakarta	ID 11012	17.6	53.7	28.2	58.4	77.6	53.9	20.5
	Serpong	ID 11014	***	50.7	32.6	30.8	39.7	39.4	28.3
	Kototabang	ID 11013	6.2	2.7	5.6	49.3	4.7	1.6	1.4
	Bandung	ID 11015	34.4	26.9	26.3	20.4	28.2	19.2	23.1
Japan	Rishiri	JP 11016	18.1	18.0	13.5	12.2	11.6	12.6	14.0
	Ochiishi	JP 11050				8.0	13.5	9.3	11.4
	Tappi	JP 11017	12.9	15.3	16.9	16.9	16.3	18.2	22.5
	Sado-seki	JP 11019	18.3	22.2	15.0	13.9	11.2	18.6	18.9
	Happo	JP 11021	11.1	8.9	7.0	6.6	8.0	9.5	8.3
	Ijira	JP 11022	24.1	21.7	21.8	21.7	15.4	24.1	24.2
	Oki	JP 11023	18.6	15.7	15.1	12.9	17.0	21.8	18.2
	Banryu	JP 11024	13.9	17.4	19.1	15.9	15.6	25.5	19.5
	Yusuhara	JP 11025	7.0	6.8	8.4	6.9	5.3	9.4	7.6
	Hedo	JP 11027	5.7	6.6	9.5	9.5	13.4	11.0	8.1
Ogasawara	JP 11018	2.4	3.7	2.7	4.7	3.7	3.2	4.8	
Lao PDR	Vientian	LA 11051				***	***	***	6.9
Malaysia	Petaling Jaya	MY 11029	27.2	23.7	36.8	32.9	29.8	35.9	30.0
	Tanah Rata	MY 11030	3.3	3.4	6.0	4.7	4.6	6.0	5.3
	Danum Valley	MY 11053						2.5	1.4
Mongolia	Ulaanbaatar	MN 11031	19.9	20.7	23.7	15.5	15.8	18.8	18.6
	Terelj	MN 11032	17.6	9.2	18.1	12.4	16.1	11.8	15.5
Philippines	Metro Manila	PH 11033	12.1	18.5	17.6	13.1	15.4	21.5	12.3
	Los Banos	PH 11034	5.4	13.9	8.2	4.9	6.1	9.8	8.1
	Mt. Sto. Tomas	PH 11055							1.9
Republic of Korea	Kanghwa	KR 11035	42.4	28.6	32.7	27.3	41.1	45.0	33.0
	Cheju (Kosan)	KR 11036	15.3	18.4	24.0	23.0	24.8	27.5	25.5
	Imsil	KR 11037		15.6	32.0	16.9	20.5	26.4	27.7
Russia	Mondy	RU 11038	10.0	10.6	13.5	6.8	6.8	5.0	5.1
	Listvyanka	RU 11039	18.7	14.7	25.0	29.8	19.8	11.8	14.6
	Irkutsk	RU 11040	21.0	18.4	21.8	17.8	17.1	16.4	16.5
	Primorskaya	RU 11041			10.2	15.4	21.4	21.6	29.2
Thailand	Bangkok	TH 11042	21.6	17.9	24.6	23.1	15.9	23.2	33.0
	Samutprakarn	TH 11043	15.4				9.8	17.9	14.1
	Patumthani	TH 11044	18.6	19.6	18.5	17.2	24.0	19.6	22.0
	Khanchanaburi	TH 11045	5.7	6.8	6.1	4.9	4.8	2.5	6.1
	Chiang Mai (Mae Hia)	TH 11046		4.1	6.6	6.5	6.1	8.4	7.9
	Nakhon Ratchasima	TH 11054							11.3
Viet Nam	Hanoi	VN 11047	16.1	5.1	15.1	24.8	25.2	30.8	24.9
	Hoa Binh	VN 11048	9.7	8.8	20.2	13.4	19.9	12.9	16.1

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

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

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006
Cambodia	Phnom Penh	<i>KH 11052</i>					***	6.2	6.2
China	Guanyinqiao	<i>CN 11001</i>	24.0	29.8	15.6	16.2	14.7	18.3	19.3
	Nanshan	<i>CN 11002</i>	15.6						
	Jinyunshan	<i>CN 11003</i>		56.8	12.9	10.3	12.8	15.5	13.6
	Shizhan	<i>CN 11004</i>	49.0	81.3	349	83.3	36.1	34.4	35.8
	Weishuiyuan	<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
	Hongwen	<i>CN 11008</i>	32.0	35.8	42.9	51.3	60.2	66.0	45.9
	Xiaoping	<i>CN 11009</i>	20.7	28.8	9.1	23.5	16.6	11.9	22.3
	Xiang Zhou	<i>CN 11010</i>	49.8	37.8	68.9	47.4	36.4	65.8	44.6
	Zhuxian Cavern	<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
	Serpong	<i>ID 11014</i>	***	32.3	23.0	27.2	23.8	19.8	10.9
	Kototabang	<i>ID 11013</i>	6.8	6.6	16.8	27.8	11.8	7.1	7.8
	Bandung	<i>ID 11015</i>	105	25.0	20.3	13.0	17.4	14.6	14.1
Japan	Rishiri	<i>JP 11016</i>	372	235	217	201	256	233	126
	Ochiishi	<i>JP 11050</i>				227	410	232	317
	Tappi	<i>JP 11017</i>	178	156	191	154	231	250	326
	Sado-seki	<i>JP 11019</i>	274	378	307	107	154	337	256
	Happo	<i>JP 11021</i>	10.7	8.8	5.0	7.3	8.7	8.7	5.7
	Ijira	<i>JP 11022</i>	23.0	32.7	33.3	19.1	27.5	16.8	14.4
	Oki	<i>JP 11023</i>	449	359	419	201	321	696	253
	Banryu	<i>JP 11024</i>	31.0	86.5	88.9	92.5	133	110	76.0
	Yusuhara	<i>JP 11025</i>	18.7	12.3	31.8	16.0	28.1	29.9	14.0
	Hedo	<i>JP 11027</i>	515	175	593	451	982	488	217
Ogasawara	<i>JP 11018</i>	164	123	278	286	139	115	119	
Lao PDR	Vientian	<i>LA 11051</i>				***	***	***	4.8
Malaysia	Petaling Jaya	<i>MY 11029</i>	8.5	7.5	7.3	9.2	7.4	8.8	6.9
	Tanah Rata	<i>MY 11030</i>	6.8	3.0	2.3	2.4	2.4	2.6	2.1
	Danum Valley	<i>MY 11053</i>						6.0	7.2
Mongolia	Ulaanbaatar	<i>MN 11031</i>	9.0	9.7	7.7	7.6	8.0	7.8	7.8
	Terelj	<i>MN 11032</i>	9.0	8.7	11.4	6.6	9.0	9.9	9.3
Philippines	Metro Manila	<i>PH 11033</i>	25.6	115	18.8	24.3	24.0	14.2	23.1
	Los Banos	<i>PH 11034</i>	33.0	34.5	24.6	16.2	14.3	18.1	21.0
	Mt. Sto. Tomas	<i>PH 11055</i>							1.6
Republic of Korea	Kanghwa	<i>KR 11035</i>	54.9	42.6	43.0	61.3	55.8	56.1	36.0
	Cheju (Kosan)	<i>KR 11036</i>	210	112	83.8	68.5	79.1	105	102
	Imsil	<i>KR 11037</i>		28.7	36.9	38.1	26.7	44.0	77.5
Russia	Mondy	<i>RU 11038</i>	2.6	1.4	8.9	3.1	2.8	5.9	4.5
	Listvyanka	<i>RU 11039</i>	5.0	2.2	6.8	4.1	4.9	5.4	3.5
	Irkutsk	<i>RU 11040</i>	11.6	12.2	18.0	17.7	8.5	12.4	12.5
	Primorskaya	<i>RU 11041</i>			33.9	35.6	21.3	21.7	18.0
Thailand	Bangkok	<i>TH 11042</i>	12.6	9.4	13.9	8.7	11.3	12.3	10.8
	Samutprakarn	<i>TH 11043</i>	12.9				12.8	19.0	12.5
	Patumthani	<i>TH 11044</i>	10.4	7.8	11.6	6.4	14.3	7.1	6.8
	Khanchanaburi	<i>TH 11045</i>	17.6	10.0	14.1	8.8	10.0	7.8	6.3
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		4.5	10.1	4.7	3.8	4.2	3.7
	Nakhon Ratchasima	<i>TH 11054</i>							5.5
Viet Nam	Hanoi	<i>VN 11047</i>	24.3	27.1	9.5	21.3	14.7	27.2	15.6
	Hoa Binh	<i>VN 11048</i>	20.3	22.1	7.0	6.9	11.8	13.5	6.5

[***]: 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 3.64 Volume-weighted annual mean concentrations of NH₄⁺

unit: μmol/L

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

[***]: 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 3.65 Volume-weighted annual mean concentrations of Na⁺

unit: μmol/L

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006
Cambodia	Phnom Penh	KH 11052					***	***	1.8
China	Guanyinqiao	CN 11001	11.8	10.8	5.5	4.9	7.3	8.3	7.9
	Nanshan	CN 11002	7.7						
	Jinyunshan	CN 11003		10.2	5.9	5.0	12.3	15.3	6.6
	Shizhan	CN 11004	44.1	164	246	69.2	19.1	16.1	45.2
	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
	Hongwen	CN 11008	23.8	10.8	55.6	34.8	50.4	51.4	30.8
	Xiaoping	CN 11009	8.7	11.8	16.4	24.7	13.0	9.7	23.2
	Xiang Zhou	CN 11010	42.1	24.6	41.5	39.1	72.1	44.1	35.5
	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
	Serpong	ID 11014	***	23.8	25.2	11.3	19.6	16.0	7.5
	Kototabang	ID 11013	***	4.5	6.3	9.7	10.9	5.7	6.2
	Bandung	ID 11015	***	20.2	8.6	7.1	10.8	11.9	18.3
Japan	Rishiri	JP 11016	325	212	197	176	229	203	110
	Ochiishi	JP 11050				198	360	208	278
	Tappi	JP 11017	149	134	165	141	199	218	289
	Sado-seki	JP 11019	258	355	268	93.8	135	290	224
	Happo	JP 11021	7.8	6.2	3.4	4.8	5.9	7.0	4.1
	Ijira	JP 11022	19.9	29.7	28.5	13.3	21.6	13.6	10.8
	Oki	JP 11023	396	316	363	185	295	602	225
	Banryu	JP 11024	28.9	78.2	79.4	80.9	113	92.1	66.4
	Yusuhara	JP 11025	15.2	11.8	28.9	14.4	24.1	25.2	11.9
	Hedo	JP 11027	454	160	515	430	873	449	189
Ogasawara	JP 11018	139	104	236	251	125	97.3	103	
Lao PDR	Vientian	LA 11051				***	***	***	7.1
Malaysia	Petaling Jaya	MY 11029	5.0	3.7	5.1	5.6	5.7	6.6	4.3
	Tanah Rata	MY 11030	1.9	1.9	1.6	1.9	1.8	6.6	1.4
	Danum Valley	MY 11053						4.5	5.6
Mongolia	Ulaanbaatar	MN 11031	7.9	9.1	6.3	3.8	5.8	7.2	8.4
	Terelj	MN 11032	6.5	15.9	16.9	4.5	6.3	11.5	12.5
Philippines	Metro Manila	PH 11033	30.6	205	14.6	18.4	16.3	15.9	17.2
	Los Banos	PH 11034	34.8	37.2	21.1	15.3	12.0	17.2	22.7
	Mt. Sto. Tomas	PH 11055							2.8
Republic of Korea	Kanghwa	KR 11035	56.3	41.7	49.2	25.4	32.5	33.7	28.8
	Cheju (Kosan)	KR 11036	152	74.7	58.3	46.7	57.8	84.8	85.0
	Imsil	KR 11037		15.4	38.6	22.8	17.9	21.7	31.1
Russia	Mondy	RU 11038	1.8	2.3	1.9	2.3	1.9	1.5	1.6
	Listvyanka	RU 11039	4.6	3.4	3.8	5.1	4.7	3.0	2.8
	Irkutsk	RU 11040	8.8	8.3	9.2	6.6	6.6	6.9	10.0
	Primorskaya	RU 11041			23.1	33.7	22.5	21.7	16.8
Thailand	Bangkok	TH 11042	6.9	8.3	16.1	7.6	10.2	12.8	8.7
	Samutprakarn	TH 11043	10.1				16.5	19.8	14.6
	Patumthani	TH 11044	10.9	8.1	9.6	4.7	8.9	6.6	7.5
	Khanchanaburi	TH 11045	9.7	11.3	8.3	10.3	9.0	6.7	6.9
	Chiang Mai (Mae Hia)	TH 11046		3.9	9.7	3.2	3.1	<1.0	3.5
	Nakhon Ratchasima	TH 11054							4.5
Viet Nam	Hanoi	VN 11047	18.1	11.5	5.9	9.0	8.1	17.7	13.5
	Hoa Binh	VN 11048	12.7	9.8	2.1	2.4	3.9	7.5	4.5

[***]: 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 3.66 Volume-weighted annual mean concentrations of K⁺

unit: μmol/L

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006
Cambodia	Phnom Penh	<i>KH 11052</i>					1.6	***	1.5
China	Guanyinqiao	<i>CN 11001</i>	14.2	18.7	10.6	11.0	10.9	12.4	12.6
	Nanshan	<i>CN 11002</i>	16.3						
	Jinyunshan	<i>CN 11003</i>		44.4	10.3	8.6	11.7	11.4	11.4
	Shizhan	<i>CN 11004</i>	26.5	42.2	40.5	18.7	9.6	15.4	18.0
	Weishuiyuan	<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
	Hongwen	<i>CN 11008</i>	5.0	10.4	4.3	4.3	7.2	5.1	3.3
	Xiaoping	<i>CN 11009</i>	2.8	4.2	3.8	4.7	5.1	2.8	13.5
	Xiang Zhou	<i>CN 11010</i>	6.6	4.0	17.6	5.7	7.7	2.7	8.2
	Zhuxian Cavern	<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
	Serpong	<i>ID 11014</i>	***	7.0	3.9	8.0	5.6	6.2	4.5
	Kototabang	<i>ID 11013</i>	***	1.3	5.1	20.0	6.3	4.4	4.6
	Bandung	<i>ID 11015</i>	***	12.6	2.0	4.1	3.3	4.7	4.8
Japan	Rishiri	<i>JP 11016</i>	9.9	6.0	5.1	4.9	6.0	5.1	3.7
	Ochiishi	<i>JP 11050</i>				4.6	8.1	5.3	7.7
	Tappi	<i>JP 11017</i>	3.6	3.3	4.1	3.4	4.9	5.0	7.1
	Sado-seki	<i>JP 11019</i>	6.4	8.2	6.5	2.5	3.6	6.6	5.7
	Happo	<i>JP 11021</i>	<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
	Oki	<i>JP 11023</i>	10.5	8.8	9.5	5.4	9.6	15.5	6.6
	Banryu	<i>JP 11024</i>	1.4	2.7	2.9	2.5	3.0	3.7	2.2
	Yusuhara	<i>JP 11025</i>	<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
	Ogasawara	<i>JP 11018</i>	3.6	4.1	6.2	5.6	3.1	2.3	2.5
Lao PDR	Vientian	<i>LA 11051</i>				***	***	***	3.5
Malaysia	Petaling Jaya	<i>MY 11029</i>	1.8	1.4	1.3	3.0	1.6	2.5	1.6
	Tanah Rata	<i>MY 11030</i>	1.1	<1.0	<1.0	<1.0	1.5	<1.0	<1.0
	Danum Valley	<i>MY 11053</i>						1.2	1.0
Mongolia	Ulaanbaatar	<i>MN 11031</i>	3.9	4.6	3.8	3.4	2.8	4.3	5.2
	Terelj	<i>MN 11032</i>	4.5	3.8	10.2	4.1	4.7	6.5	9.0
Philippines	Metro Manila	<i>PH 11033</i>	15.5	23.2	9.9	2.5	3.9	3.9	12.6
	Los Banos	<i>PH 11034</i>	1.7	9.5	6.4	1.8	2.1	2.2	2.5
	Mt. Sto. Tomas	<i>PH 11055</i>							1.3
Republic of Korea	Kanghwa	<i>KR 11035</i>	5.6	4.7	8.8	9.4	11.4	6.5	4.9
	Cheju (Kosan)	<i>KR 11036</i>	6.3	9.4	6.4	8.2	8.1	8.6	6.0
	Imsil	<i>KR 11037</i>		14.8	6.5	11.2	5.7	48.6	42.1
Russia	Mondy	<i>RU 11038</i>	1.2	2.1	2.3	1.6	2.7	1.0	1.1
	Listvyanka	<i>RU 11039</i>	4.7	1.7	2.2	2.6	2.4	1.1	1.5
	Irkutsk	<i>RU 11040</i>	4.4	7.4	2.3	2.6	2.7	3.4	7.6
	Primorskaya	<i>RU 11041</i>			5.3	10.1	7.2	7.1	5.5
Thailand	Bangkok	<i>TH 11042</i>	3.2	4.1	3.4	2.6	1.6	2.2	2.8
	Samutprakarn	<i>TH 11043</i>	5.3				4.9	4.9	4.3
	Patumthani	<i>TH 11044</i>	2.3	1.7	1.5	1.2	1.2	1.2	1.7
	Khanchanaburi	<i>TH 11045</i>	8.9	5.0	2.4	2.0	1.1	<1.0	2.4
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		2.9	4.4	4.0	1.4	<1.0	1.7
	Nakhon Ratchasima	<i>TH 11054</i>							<1.0
Viet Nam	Hanoi	<i>VN 11047</i>	4.1	3.8	2.1	2.6	3.0	5.2	3.8
	Hoa Binh	<i>VN 11048</i>	3.6	2.3	1.5	1.5	1.7	3.6	2.4

[***]: No data or not measured

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

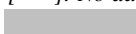
Black column: Monitoring was not carried out

Table 3.67 Volume-weighted annual mean concentrations of Ca²⁺

unit: μmol/L

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

[***]: 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 3.68 Volume-weighted annual mean concentrations of nss-Ca²⁺

unit: μmol/L

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

[***]: 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 3.69 Volume-weighted annual mean concentrations of Mg²⁺

unit: µmol/L

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

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

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

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

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

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

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

[***]: 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⁻ deposition

unit: mmol m⁻² y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006
Cambodia	Phnom Penh	<i>KH 11052</i>					***	7.43	5.04
China	Guanyinqiao	<i>CN 11001</i>	164	154	165	108	229	200	149
	Nanshan	<i>CN 11002</i>	164						
	Jinyunshan	<i>CN 11003</i>		87.7	126	103	166	149	169
	Shizhan	<i>CN 11004</i>	199	171	297	258	104	63.9	132
	Weishuiyuan	<i>CN 11005</i>	241	105	234	186	94.2	47.1	104
	Dabagou	<i>CN 11006</i>	117						
	Jiwozi	<i>CN 11007</i>		68.0	43.2	55.3	56.3	42.8	30.0
	Hongwen	<i>CN 11008</i>	30.7	16.7	67.0	48.0	73.6	80.4	61.1
	Xiaoping	<i>CN 11009</i>	22.8	49.1	36.3	41.7	53.3	59.0	39.7
	Xiang Zhou	<i>CN 11010</i>	45.5	31.2	48.3	35.3	25.0	28.0	44.6
	Zhuxian Cavern	<i>CN 11011</i>	85.4	49.5	50.6	32.4	34.3	31.3	17.1
Indonesia	Jakarta	<i>ID 11012</i>	92.7	77.5	60.5	108	71.4	85.6	38.7
	Serpong	<i>ID 11014</i>	***	61.4	64.3	49.5	41.0	27.5	45.2
	Kototabang	<i>ID 11013</i>	8.65	5.66	13.4	28.7	11.0	12.1	9.55
	Bandung	<i>ID 11015</i>	60.2	87.8	70.4	32.8	24.8	61.7	35.1
Japan	Rishiri	<i>JP 11016</i>	30.0	19.1	26.1	16.6	27.0	26.8	29.6
	Ochiishi	<i>JP 11050</i>				14.9	22.3	18.6	27.6
	Tappi	<i>JP 11017</i>	22.9	24.7	30.2	25.1	38.6	36.8	34.5
	Sado-seki	<i>JP 11019</i>	36.8	39.8	40.4	18.6	27.2	39.1	35.7
	Happo	<i>JP 11021</i>	29.2	27.4	19.8	18.5	28.2	35.8	28.4
	Ijira	<i>JP 11022</i>	53.3	49.1	52.2	56.7	48.0	48.5	58.3
	Oki	<i>JP 11023</i>	49.0	42.1	55.4	34.3	41.3	73.2	41.1
	Banryu	<i>JP 11024</i>	24.4	33.9	24.8	30.5	34.4	34.6	43.1
	Yusuhara	<i>JP 11025</i>	31.0	19.0	26.2	26.5	26.7	28.0	31.9
	Hedo	<i>JP 11027</i>	93.6	33.9	75.0	49.0	137	64.1	35.8
Ogasawara	<i>JP 11018</i>	22.6	20.7	24.1	25.2	12.5	26.9	16.2	
Lao PDR	Vientian	<i>LA 11051</i>				***	***	***	2.45
Malaysia	Petaling Jaya	<i>MY 11029</i>	80.4	68.4	63.1	63.9	54.5	66.4	82.5
	Tanah Rata	<i>MY 11030</i>	12.9	9.79	12.8	11.4	9.74	16.1	12.3
	Danum Valley	<i>MY 11053</i>						5.53	10.2
Mongolia	Ulaanbaatar	<i>MN 11031</i>	4.78	4.17	4.41	5.80	1.84	4.01	4.78
	Terelj	<i>MN 11032</i>	3.41	0.86	3.72	2.57	2.75	4.29	5.10
Philippines	Metro Manila	<i>PH 11033</i>	94.4	85.5	78.2	37.6	44.0	57.1	47.4
	Los Banos	<i>PH 11034</i>	27.7	28.4	27.3	11.4	14.7	16.2	23.9
	Mt. Sto. Tomas	<i>PH 11055</i>							0.59
Republic of Korea	Kanghwa	<i>KR 11035</i>	35.3	28.5	28.4	41.1	39.3	37.9	40.3
	Cheju (Kosan)	<i>KR 11036</i>	24.5	23.0	28.5	29.3	26.8	24.0	31.6
	Imsil	<i>KR 11037</i>		21.3	22.7	30.6	19.9	28.4	19.0
Russia	Mondy	<i>RU 11038</i>	2.19	3.51	2.20	3.48	2.46	1.54	1.93
	Listvyanka	<i>RU 11039</i>	6.79	6.60	6.56	10.3	10.6	7.80	5.90
	Irkutsk	<i>RU 11040</i>	16.1	13.9	10.3	12.0	14.7	12.3	9.28
	Primorskaya	<i>RU 11041</i>			24.2	13.9	25.7	28.2	28.6
Thailand	Bangkok	<i>TH 11042</i>	24.8	21.3	24.2	25.6	19.8	39.1	35.5
	Samutprakarn	<i>TH 11043</i>	25.0				20.7	31.1	29.4
	Patumthani	<i>TH 11044</i>	18.7	23.2	14.2	20.5	17.1	16.7	21.6
	Khanchanaburi	<i>TH 11045</i>	3.21	7.91	12.4	5.78	4.71	5.72	10.2
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		3.02	6.57	3.34	7.95	8.43	6.44
	Nakhon Ratchasima	<i>TH 11054</i>							9.80
Viet Nam	Hanoi	<i>VN 11047</i>	37.9	31.5	47.8	47.7	58.3	90.6	57.7
	Hoa Binh	<i>VN 11048</i>	30.8	32.6	30.5	38.0	53.9	40.6	38.5

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

unit: mmol m⁻² y⁻¹

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

[***]: 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 3.75 Annual NO₃⁻ deposition

unit: mmol m⁻² y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006
Cambodia	Phnom Penh	<i>KH 11052</i>					3.22	***	8.59
China	Guanyinqiao	<i>CN 11001</i>	45.5	39.7	49.7	38.4	60.9	44.5	51.1
	Nanshan	<i>CN 11002</i>	52.4						
	Jinyunshan	<i>CN 11003</i>		28.6	47.3	42.5	55.9	50.2	55.2
	Shizhan	<i>CN 11004</i>	48.6	55.8	52.2	86.6	37.1	6.16	39.4
	Weishuiyuan	<i>CN 11005</i>	42.9	14.5	39.0	70.5	32.4	5.01	32.8
	Dabagou	<i>CN 11006</i>	24.1						
	Jiwozi	<i>CN 11007</i>		29.3	12.7	26.2	26.9	3.37	11.9
	Hongwen	<i>CN 11008</i>	28.4	11.2	48.2	43.7	53.1	63.4	47.7
	Xiaoping	<i>CN 11009</i>	22.8	50.1	32.0	39.9	38.5	52.9	37.7
	Xiang Zhou	<i>CN 11010</i>	31.8	28.0	30.9	36.0	29.6	20.3	33.3
	Zhuxian Cavern	<i>CN 11011</i>	59.6	57.1	32.9	20.2	31.9	22.8	11.7
Indonesia	Jakarta	<i>ID 11012</i>	27.8	66.4	44.3	94.5	114	115	30.4
	Serpong	<i>ID 11014</i>	***	81.4	81.6	66.1	58.0	32.5	45.4
	Kototabang	<i>ID 11013</i>	14.4	3.32	10.1	154	9.94	3.46	1.74
	Bandung	<i>ID 11015</i>	30.7	70.0	66.7	32.7	25.2	33.5	30.3
Japan	Rishiri	<i>JP 11016</i>	13.9	11.1	12.9	8.65	11.0	12.1	18.2
	Ochiishi	<i>JP 11050</i>				6.22	8.78	7.65	11.3
	Tappi	<i>JP 11017</i>	13.5	16.5	22.5	19.4	24.0	22.5	21.7
	Sado-seki	<i>JP 11019</i>	19.5	21.6	21.4	15.7	17.3	21.3	23.9
	Happo	<i>JP 11021</i>	24.3	20.8	18.2	16.2	24.7	28.6	22.7
	Ijira	<i>JP 11022</i>	64.8	48.5	57.8	64.5	52.6	61.9	68.5
	Oki	<i>JP 11023</i>	22.4	19.5	23.7	20.7	24.0	28.7	25.4
	Banryu	<i>JP 11024</i>	21.7	31.1	25.0	27.9	27.0	32.8	38.3
	Yusuhara	<i>JP 11025</i>	19.7	14.2	19.8	19.7	20.9	21.8	23.9
	Hedo	<i>JP 11027</i>	16.7	14.0	19.3	13.2	23.8	19.6	15.1
	Ogasawara	<i>JP 11018</i>	4.73	6.67	3.61	6.55	4.30	6.58	7.57
Lao PDR	Vientian	<i>LA 11051</i>				***	***	***	4.92
Malaysia	Petaling Jaya	<i>MY 11029</i>	92.9	73.2	97.9	100	89.4	102	120
	Tanah Rata	<i>MY 11030</i>	10.4	8.90	16.7	14.1	11.1	17.4	14.9
	Danum Valley	<i>MY 11053</i>						3.14	4.24
Mongolia	Ulaanbaatar	<i>MN 11031</i>	3.91	3.43	4.23	4.62	1.32	2.83	3.50
	Terelj	<i>MN 11032</i>	3.65	0.81	4.45	3.87	3.34	2.89	3.32
Philippines	Metro Manila	<i>PH 11033</i>	48.9	42.5	52.3	28.8	33.4	51.1	33.1
	Los Banos	<i>PH 11034</i>	14.3	25.3	14.0	7.84	10.6	16.2	18.1
	Mt. Sto. Tomas	<i>PH 11055</i>							0.80
Republic of Korea	Kanghwa	<i>KR 11035</i>	47.4	32.6	27.0	42.9	36.1	36.5	36.1
	Cheju (Kosan)	<i>KR 11036</i>	16.2	20.5	24.4	29.7	27.9	19.2	28.8
	Imsil	<i>KR 11037</i>		20.2	31.8	31.7	24.8	32.9	19.6
Russia	Mondy	<i>RU 11038</i>	3.04	3.38	2.75	2.78	2.44	1.44	2.09
	Listvyanka	<i>RU 11039</i>	8.25	7.26	8.99	16.1	10.9	5.34	4.54
	Irkutsk	<i>RU 11040</i>	11.2	8.61	6.59	8.15	9.48	7.25	5.89
	Primorskaya	<i>RU 11041</i>			8.51	4.97	14.8	15.9	18.2
Thailand	Bangkok	<i>TH 11042</i>	24.8	21.0	32.0	31.9	19.3	46.6	52.4
	Samutprakarn	<i>TH 11043</i>	15.1				12.3	29.1	20.0
	Patumthani	<i>TH 11044</i>	17.8	26.5	17.6	28.4	23.4	24.8	35.4
	Khanchanaburi	<i>TH 11045</i>	5.06	10.2	13.3	7.96	6.65	5.11	15.5
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		4.47	9.78	5.27	7.04	12.0	11.2
	Nakhon Ratchasima	<i>TH 11054</i>							13.5
Viet Nam	Hanoi	<i>VN 11047</i>	20.2	11.4	21.4	39.4	39.7	54.3	30.6
	Hoa Binh	<i>VN 11048</i>	18.3	19.5	32.8	22.6	36.4	29.5	25.0

[***]: 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 3.76 Annual Cl⁻ deposition

unit: mmol m⁻² y⁻¹

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

[***]: 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 3.77 Annual NH₄⁺ deposition

unit: mmol m⁻² y⁻¹

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

[***]: 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 3.78 Annual Na⁺ deposition

unit: mmol m⁻² y⁻¹

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

[***]: 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⁺ deposition

unit: mmol m⁻² y⁻¹

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

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

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

unit: mmol m⁻² y⁻¹

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

[***]: 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 3.82 Annual Mg²⁺ deposition

unit: mmol m⁻² y⁻¹

Country	Name of sites	Code	2000	2001	2002	2003	2004	2005	2006
Cambodia	Phnom Penh	<i>KH 11052</i>					0.00	***	0.63
China	Guanyinqiao	<i>CN 11001</i>	9.23	8.73	8.67	4.40	12.7	13.7	10.6
	Nanshan	<i>CN 11002</i>	8.87						
	Jinyunshan	<i>CN 11003</i>		4.09	5.41	3.56	5.39	4.63	4.78
	Shizhan	<i>CN 11004</i>	13.2	17.6	23.7	42.7	9.18	6.69	13.6
	Weishuiyuan	<i>CN 11005</i>	14.2	6.13	21.1	52.0	8.99	4.77	13.3
	Dabagou	<i>CN 11006</i>	12.1						
	Jiwozi	<i>CN 11007</i>		8.58	7.09	20.7	16.9	11.2	9.51
	Hongwen	<i>CN 11008</i>	6.40	1.86	15.1	7.76	12.2	15.4	11.6
	Xiaoping	<i>CN 11009</i>	2.07	6.77	3.50	7.15	2.81	3.35	6.52
	Xiang Zhou	<i>CN 11010</i>	14.1	5.83	9.56	12.3	8.51	8.10	18.3
	Zhuxian Cavern	<i>CN 11011</i>	14.1	8.56	11.2	12.9	10.8	9.65	4.43
Indonesia	Jakarta	<i>ID 11012</i>	346	85.3	20.7	20.6	9.25	7.72	12.7
	Serpong	<i>ID 11014</i>	***	5.67	11.3	5.76	5.84	3.09	2.78
	Kototabang	<i>ID 11013</i>	***	1.25	4.63	21.1	3.76	2.06	2.82
	Bandung	<i>ID 11015</i>	***	10.6	4.16	2.73	2.93	4.29	4.27
Japan	Rishiri	<i>JP 11016</i>	28.0	15.2	21.4	14.4	25.0	22.4	16.3
	Ochiishi	<i>JP 11050</i>				17.3	27.3	18.2	31.1
	Tappi	<i>JP 11017</i>	18.3	16.7	26.1	19.3	34.5	30.0	32.1
	Sado-seki	<i>JP 11019</i>	30.9	39.3	44.0	12.7	24.1	37.7	32.7
	Happo	<i>JP 11021</i>	3.66	3.73	2.42	3.06	3.90	3.59	2.64
	Ijira	<i>JP 11022</i>	7.75	8.93	9.34	6.42	9.43	4.51	4.63
	Oki	<i>JP 11023</i>	54.4	45.6	63.8	33.9	48.4	91.8	37.6
	Banryu	<i>JP 11024</i>	5.22	16.29	12.12	16.3	23.0	13.9	16.3
	Yusuhara	<i>JP 11025</i>	6.09	3.80	8.34	5.21	11.4	7.07	5.25
	Hedo	<i>JP 11027</i>	145	35.8	120	68.7	162	84.3	40.7
	Ogasawara	<i>JP 11018</i>	38.2	23.9	43.1	43.5	15.3	21.8	18.1
Lao PDR	Vientian	<i>LA 11051</i>				***	***	***	2.47
Malaysia	Petaling Jaya	<i>MY 11029</i>	4.74	4.02	3.79	2.15	2.66	2.40	2.85
	Tanah Rata	<i>MY 11030</i>	1.30	1.07	1.17	1.36	0.75	1.42	0.45
	Danum Valley	<i>MY 11053</i>						0.41	1.45
Mongolia	Ulaanbaatar	<i>MN 11031</i>	0.81	0.90	0.64	1.10	0.49	0.78	0.83
	Terelj	<i>MN 11032</i>	0.66	0.22	1.01	0.71	1.07	0.90	1.04
Philippines	Metro Manila	<i>PH 11033</i>	25.5	34.4	9.72	6.60	9.47	5.86	14.7
	Los Banos	<i>PH 11034</i>	9.78	20.1	5.00	4.18	6.25	3.84	7.65
	Mt. Sto. Tomas	<i>PH 11055</i>							0.42
Republic of Korea	Kanghwa	<i>KR 11035</i>	10.4	6.00	5.22	4.50	4.82	5.03	5.57
	Cheju (Kosan)	<i>KR 11036</i>	19.7	11.1	7.60	7.57	8.17	10.5	10.8
	Imsil	<i>KR 11037</i>		2.49	3.28	3.00	2.89	2.27	2.83
Russia	Mondy	<i>RU 11038</i>	0.33	0.47	0.45	0.32	0.46	0.27	0.40
	Listvyanka	<i>RU 11039</i>	1.30	0.88	1.10	1.97	1.76	0.72	0.53
	Irkutsk	<i>RU 11040</i>	2.66	2.60	1.71	1.97	2.64	2.24	2.06
	Primorskaya	<i>RU 11041</i>			4.73	3.60	4.87	4.18	3.43
Thailand	Bangkok	<i>TH 11042</i>	2.30	3.71	4.61	3.22	2.59	7.58	3.72
	Samutprakarn	<i>TH 11043</i>	2.33				2.36	5.57	6.57
	Patumthani	<i>TH 11044</i>	2.30	2.93	2.63	1.76	1.55	1.66	2.82
	Khanchanaburi	<i>TH 11045</i>	1.47	3.82	3.85	3.63	2.29	2.30	2.47
	Chiang Mai (Mae Hia)	<i>TH 11046</i>		1.19	5.22	1.68	2.10	1.43	3.44
	Nakhon Ratchasima	<i>TH 11054</i>							2.36
Viet Nam	Hanoi	<i>VN 11047</i>	6.27	8.94	4.18	5.77	5.98	15.2	10.5
	Hoa Binh	<i>VN 11048</i>	8.84	8.25	2.31	3.62	4.62	9.59	8.17

[***]: No data or not measured

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

Black column: Monitoring was not carried out

Table 3.83 Annual H⁺ deposition

unit: mmol m⁻² y⁻¹

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

[***]: 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	
	Sado	JP 11020	
	Ashizuri	JP 11026	
	Kunigami	JP 11028	
	Lao PDR	Vientian	LA 11051
Malaysia	Petaling Jaya	MY 11029	
	Tanah Rata	MY 11030	
	Danum Valley	MY 11053	
Mongolia	Ulaanbaatar	MN 11031	
	Terej	MN 11032	
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

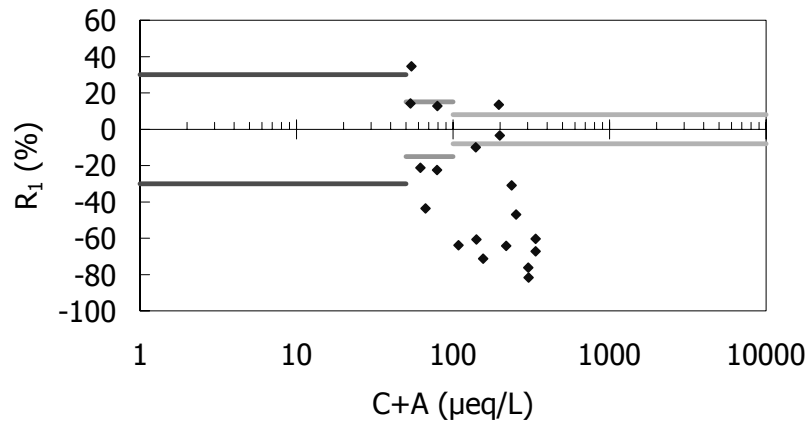


Fig. 3.2 a) Phnom Penh Ion Balance (R_1)

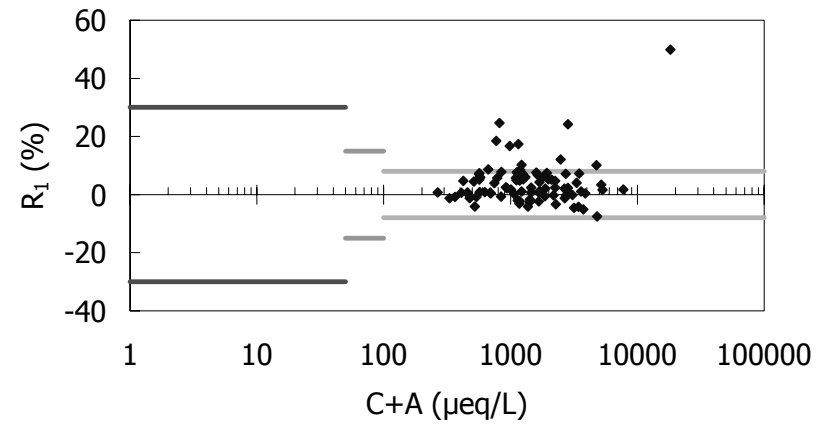


Fig. 3.3 a) Guanyinqiao Ion Balance (R_1)

Calculated including F^-

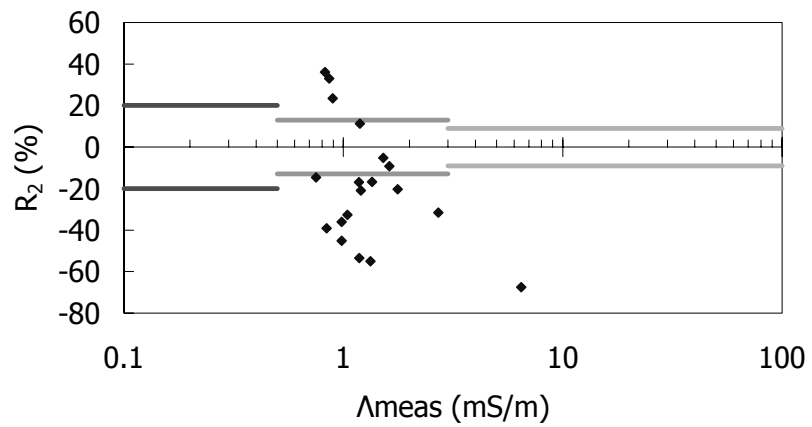


Fig. 3.2 b) Phnom Penh Conductivity Agreement (R_2)

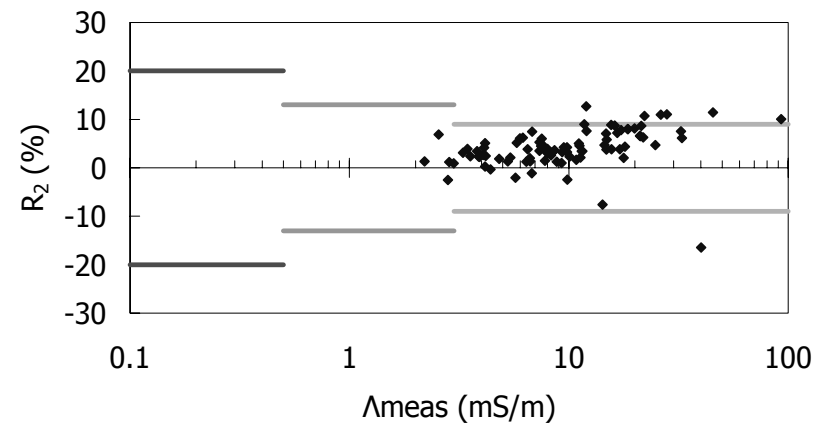


Fig. 3.3 b) Guanyinqiao Conductivity Agreement (R_2)

Calculated including F^-

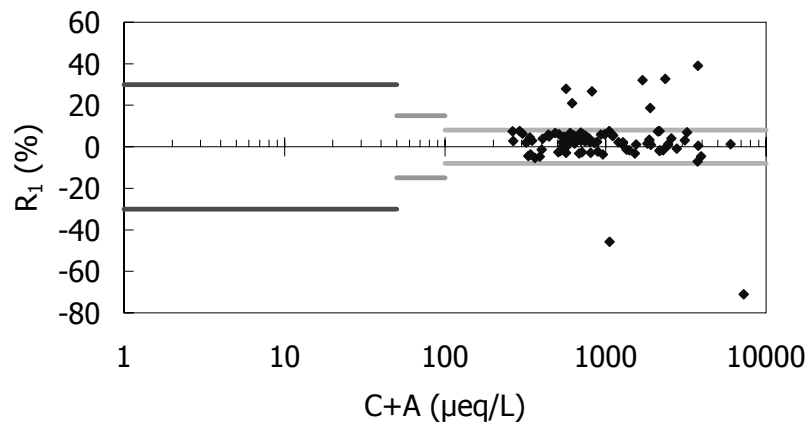


Fig. 3.4 a) Jinyunshan Ion Balance (R_1)

Calculated including F^-

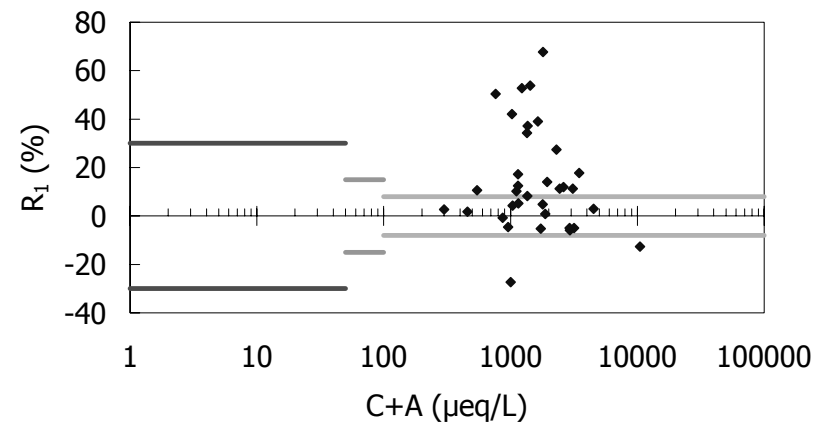


Fig. 3.5 a) Shizhan Ion Balance (R_1)

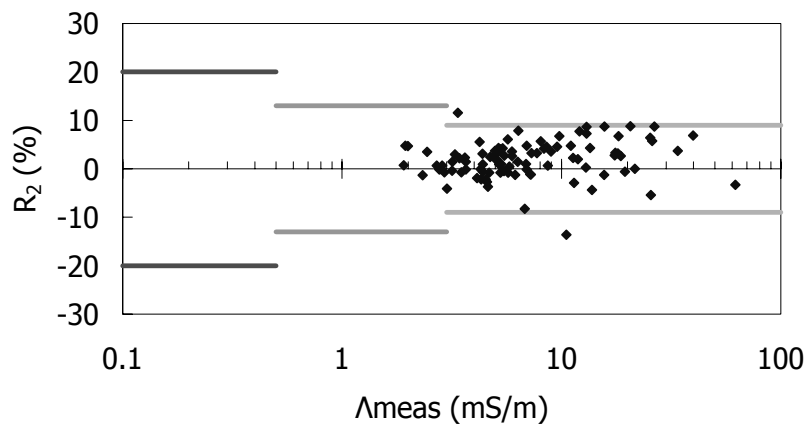


Fig 3.4 b) Jinyunshan Conductivity Agreement (R_2)

Calculated including F^-

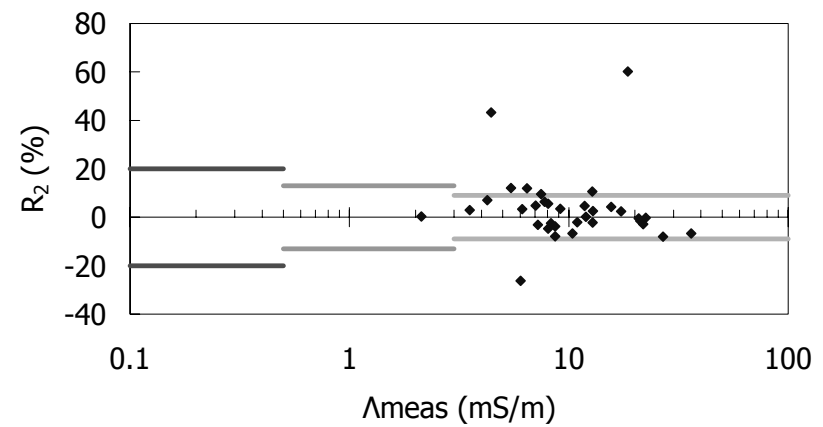


Fig. 3.5 b) Shizhan Conductivity Agreement (R_2)

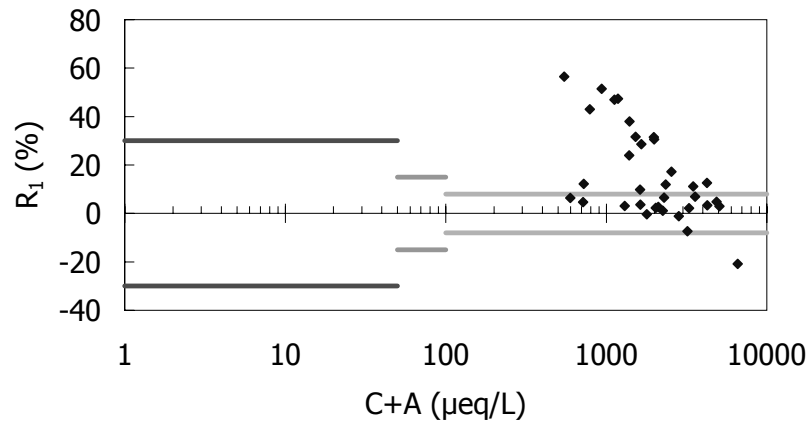


Fig. 3.6 a) Weishuiyuan Ion Balance (R_1)

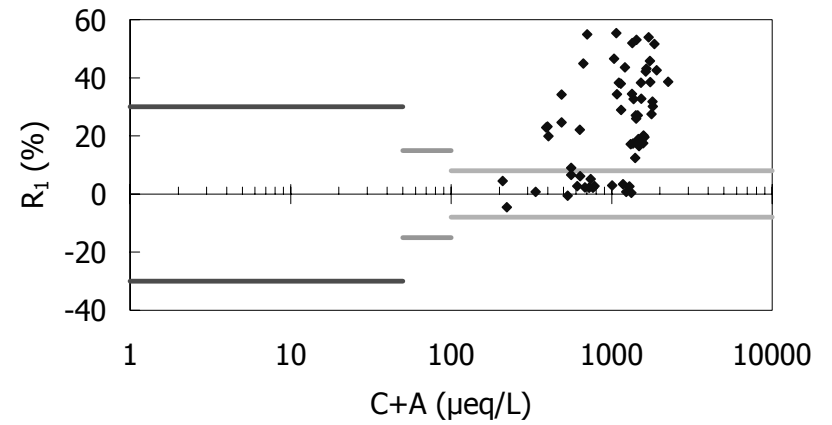


Fig. 3.7 a) Jiwozi Ion Balance (R_1)

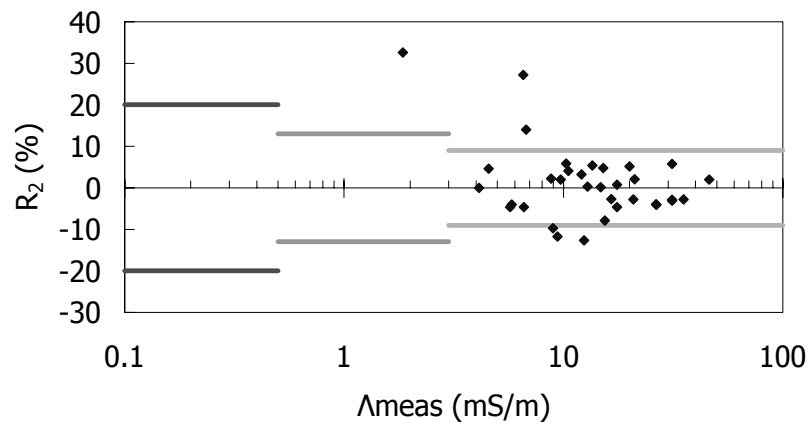


Fig 3.6 b) Weishuiyuan Conductivity Agreement (R_2)

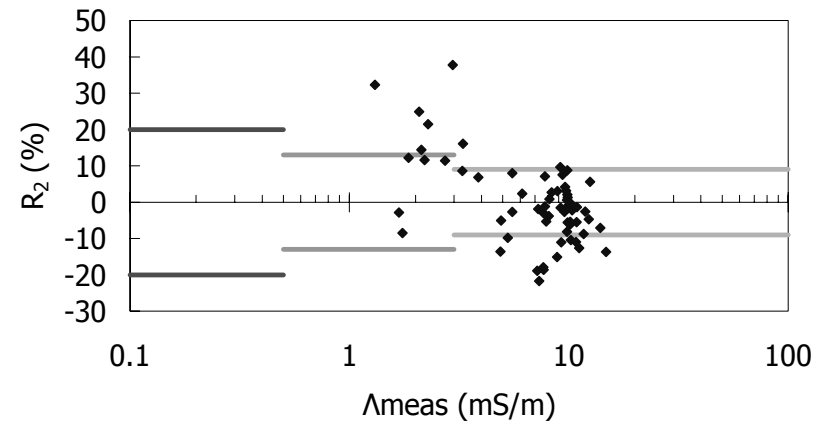


Fig. 3.7 b) Jiwozi Conductivity Agreement (R_2)

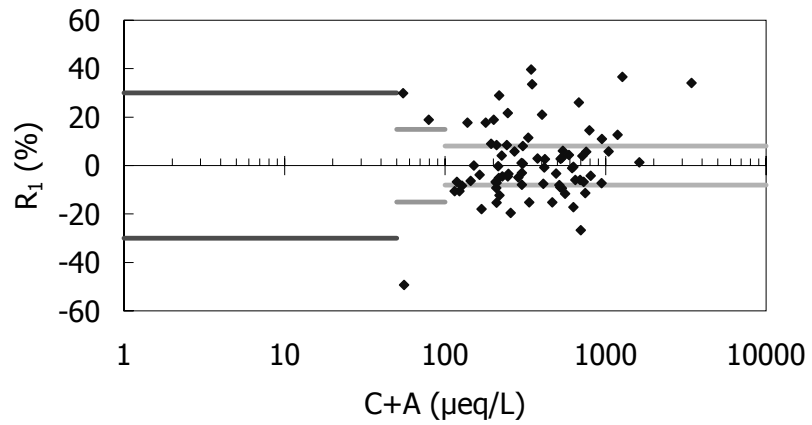


Fig. 3.8 a) Hongwen Ion Balance (R_1)

Calculated including F^-

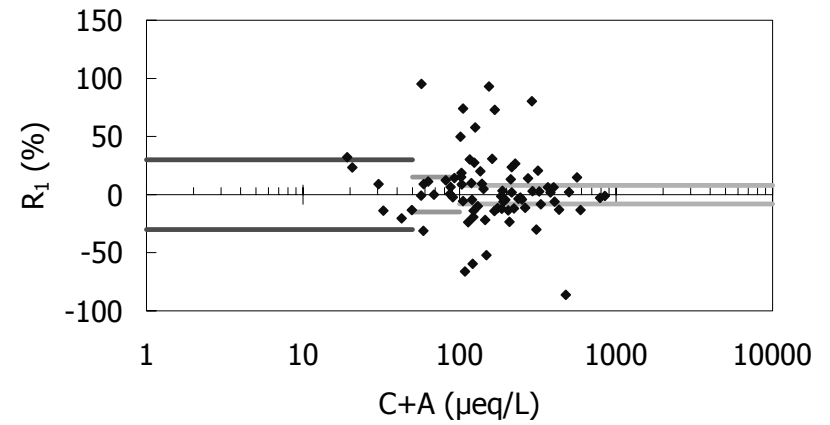


Fig. 3.9 a) Xiaoping Ion Balance (R_1)

Calculated including F^-

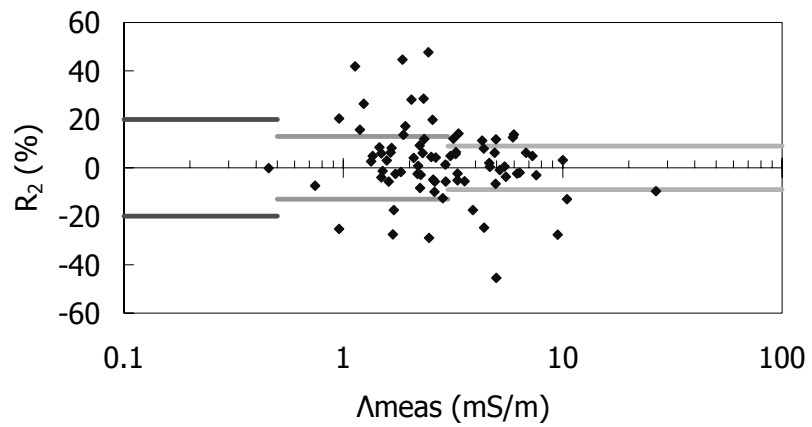


Fig 3.8 b) Hongwen Conductivity Agreement (R_2)

Calculated including F^-

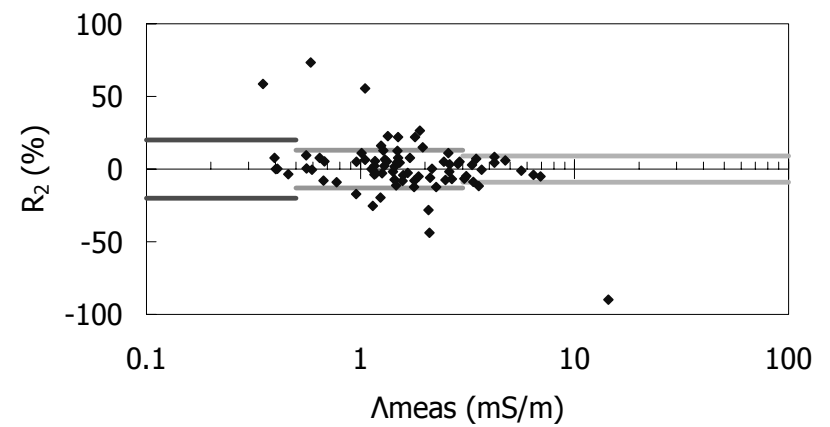


Fig. 3.9 b) Xiaoping Conductivity Agreement (R_2)

Calculated including F^-

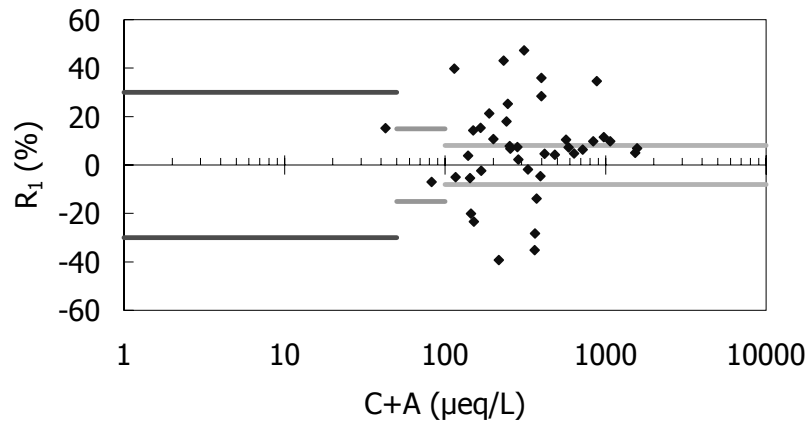


Fig. 3.10 a) Xiang Zhou Ion Balance (R_1)

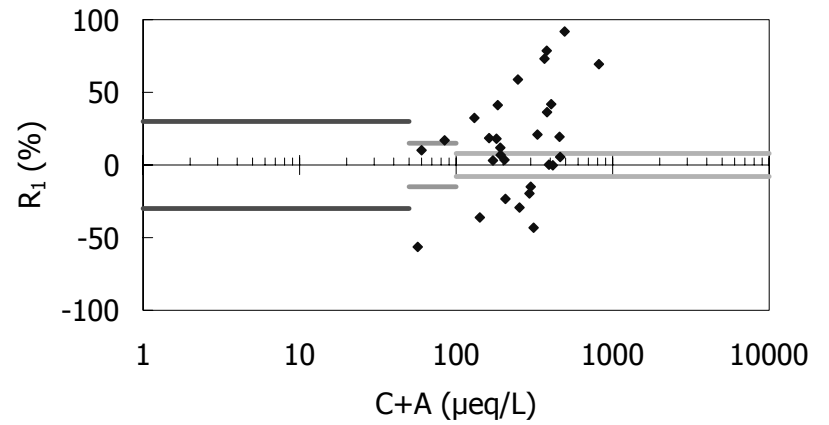


Fig. 3.11 a) Zhuxian Cavern Ion Balance (R_1)

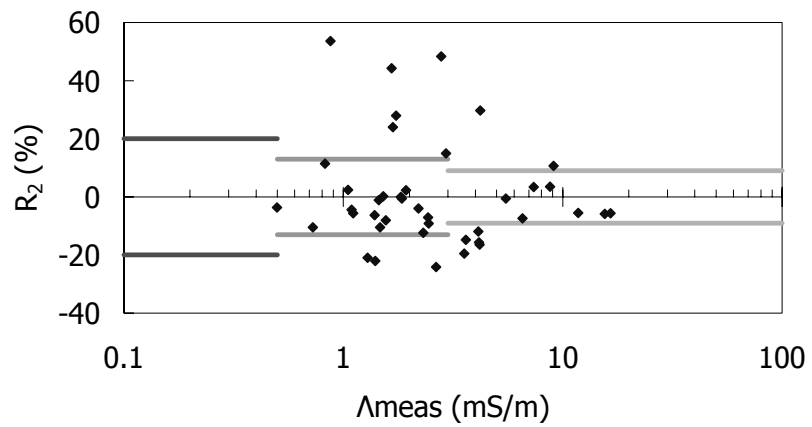


Fig 3.10 b) Xiang Zhou Conductivity Agreement (R_2)

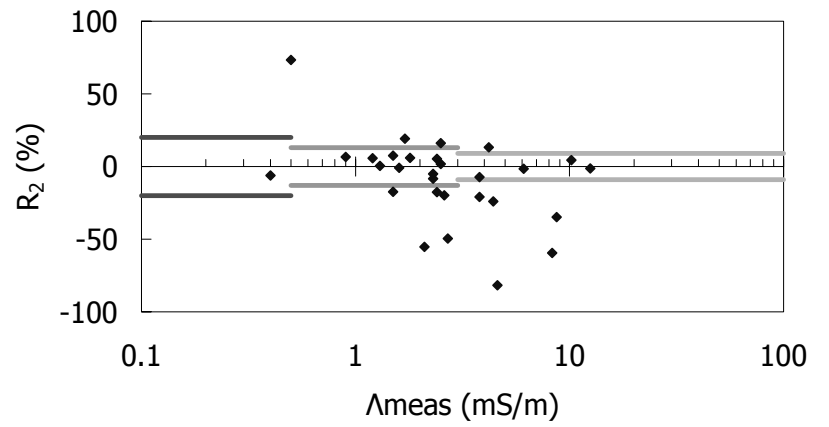


Fig. 3.11 b) Zhuxian Cavern Conductivity Agreement (R_2)

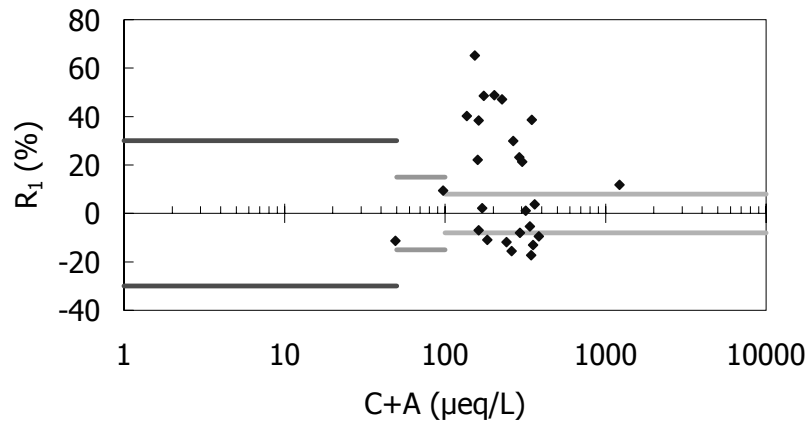


Fig. 3.12 a) Jakarta Ion Balance (R_1)

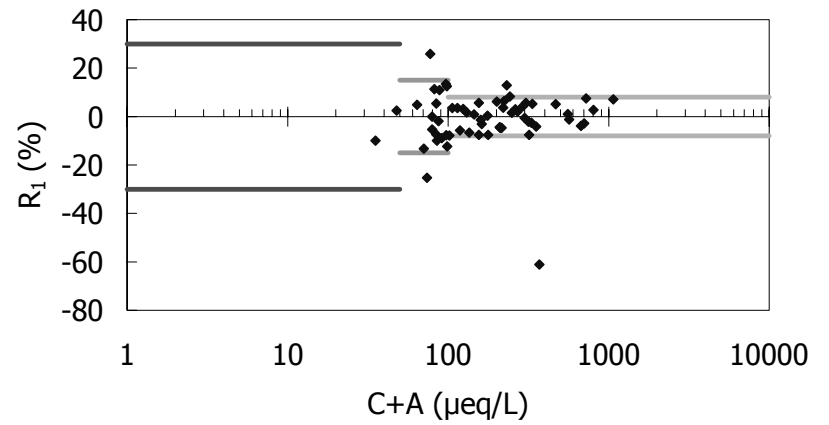


Fig. 3.13 a) Serpong Ion Balance (R_1)

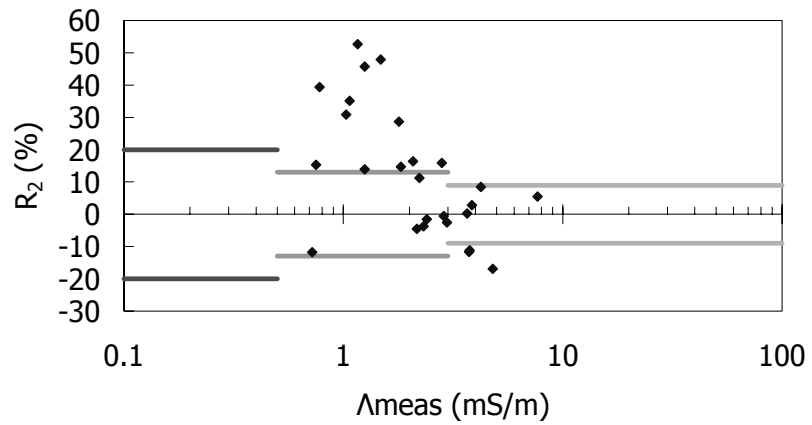


Fig 3.12 b) Jakarta Conductivity Agreement (R_2)

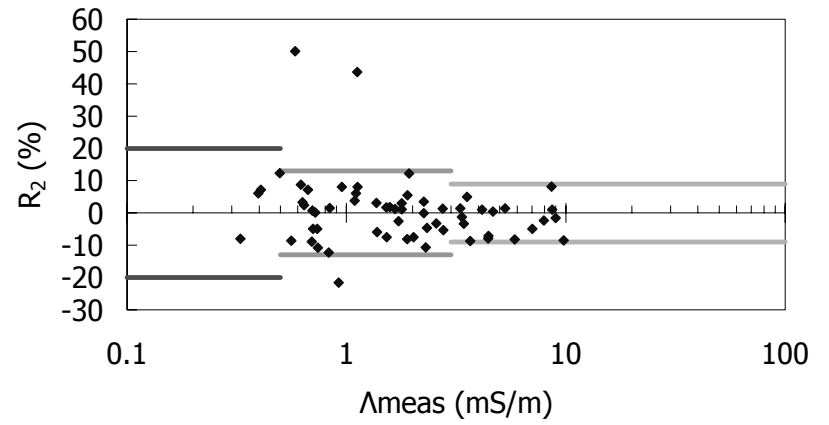


Fig. 3.13 b) Serpong Conductivity Agreement (R_2)

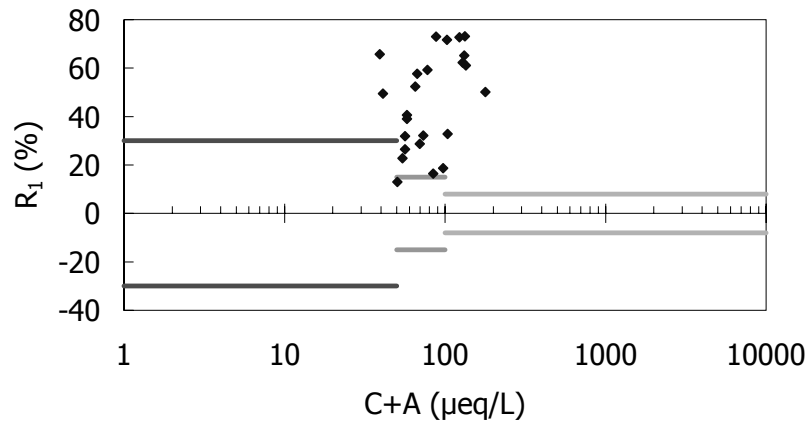


Fig. 3.14 a) Kototabang Ion Balance (R_1)

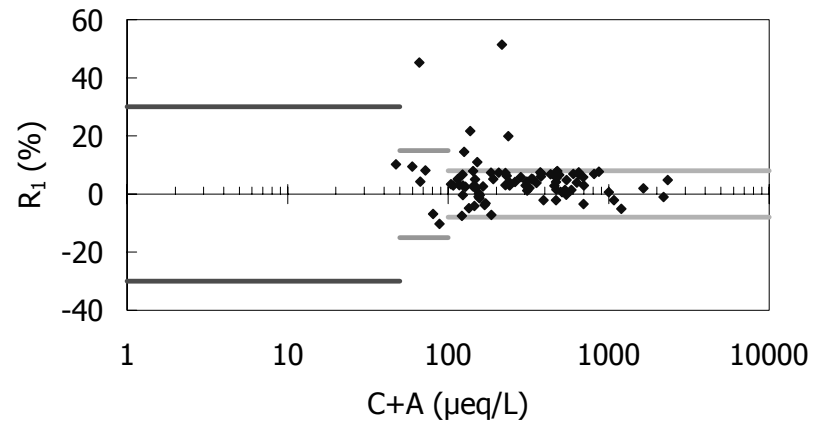


Fig. 3.15 a) Bandung Ion Balance (R_1)

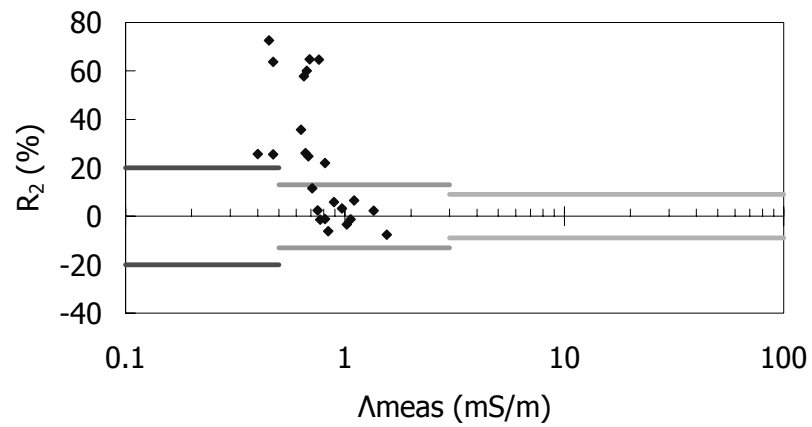


Fig 3.14 b) Kototabang Conductivity Agreement (R_2)

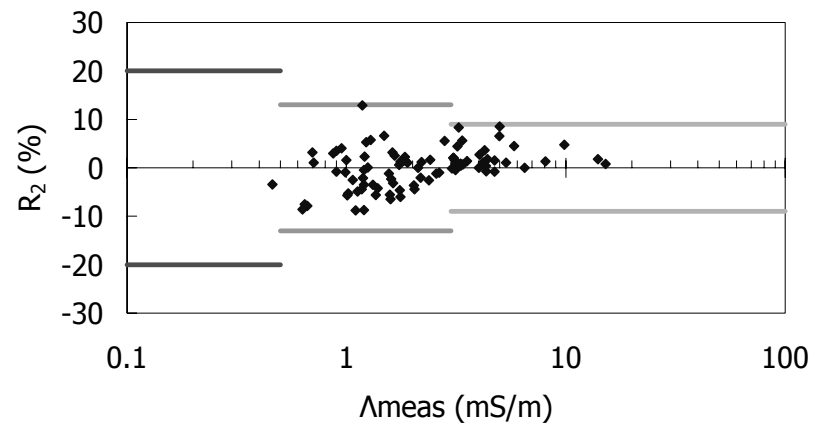


Fig. 3.15 b) Bandung Conductivity Agreement (R_2)

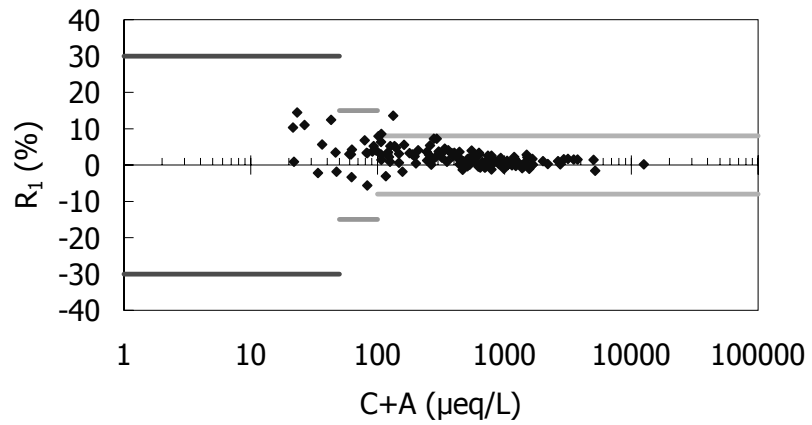


Fig. 3.16 a) Rishiri Ion Balance (R_1)

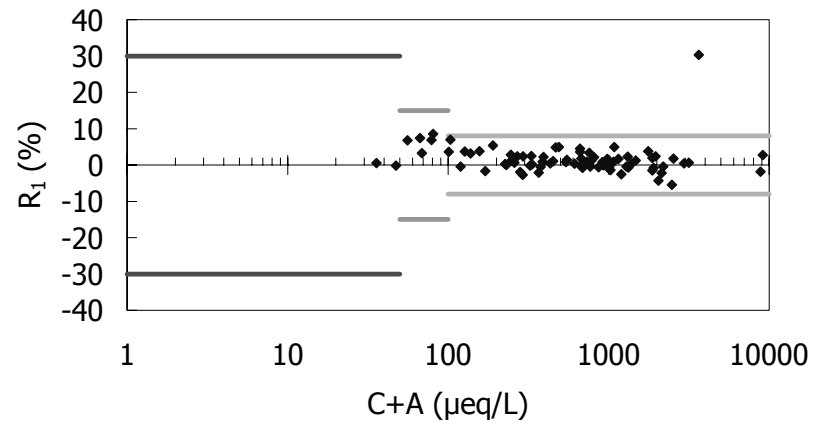


Fig. 3.17 a) Ochiishi Ion Balance (R_1)

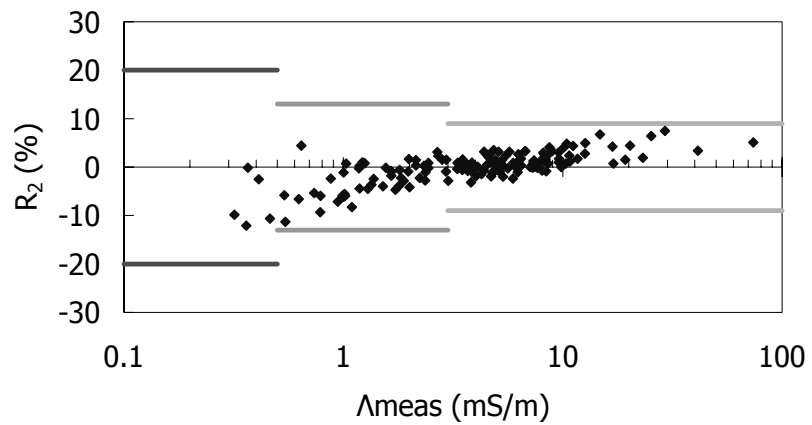


Fig. 3.16 b) Rishiri Conductivity Agreement (R_2)

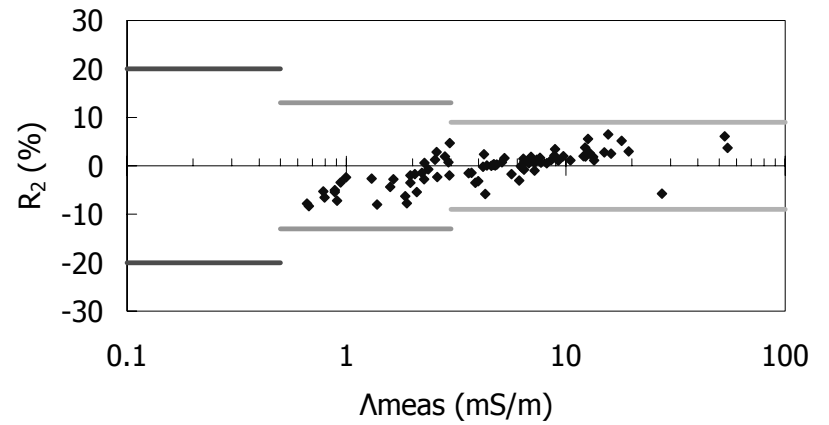


Fig. 3.17 b) Ochiishi Conductivity Agreement (R_2)

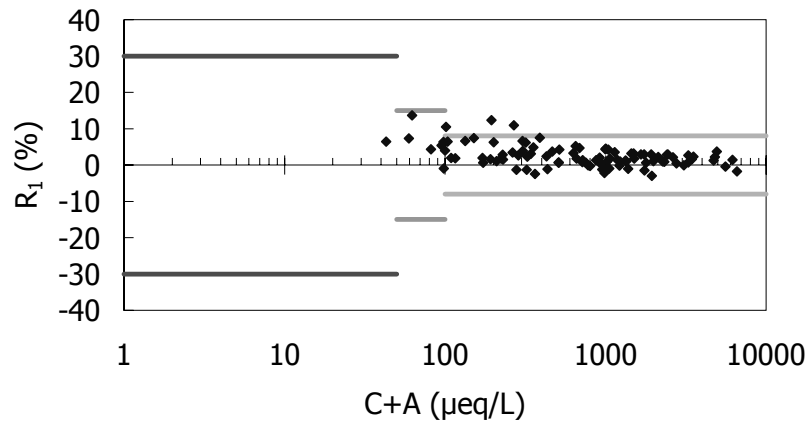


Fig. 3.18 a) Tappi Ion Balance (R_1)

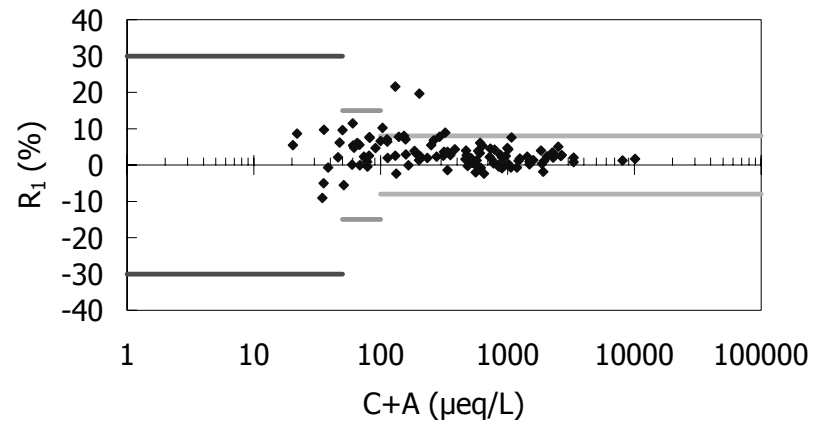


Fig. 3.19 a) Sado-seki Ion Balance (R_1)

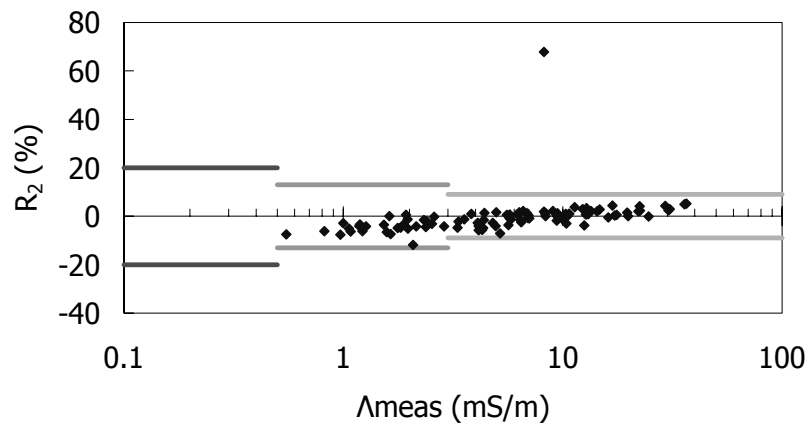


Fig. 3.18 b) Tappi Conductivity Agreement (R_2)

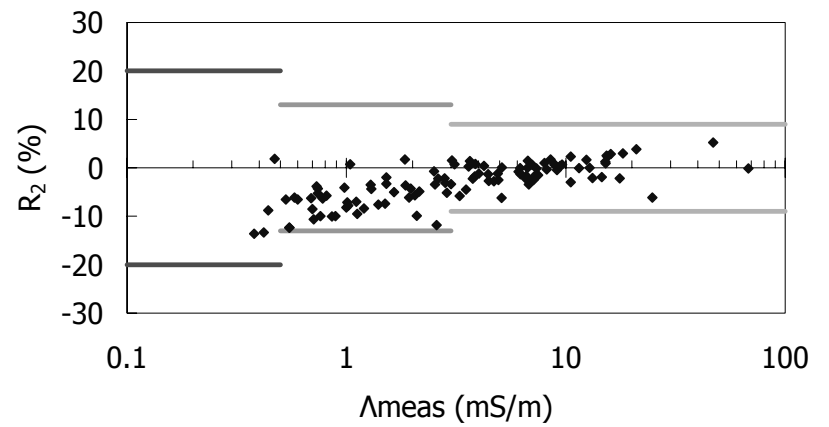


Fig. 3.19 b) Sado-seki Conductivity Agreement (R_2)

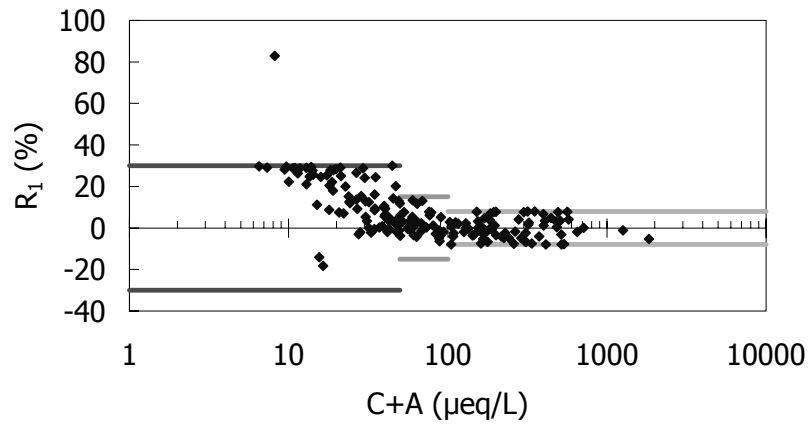


Fig. 3.20 a) Happo Ion Balance (R_1)

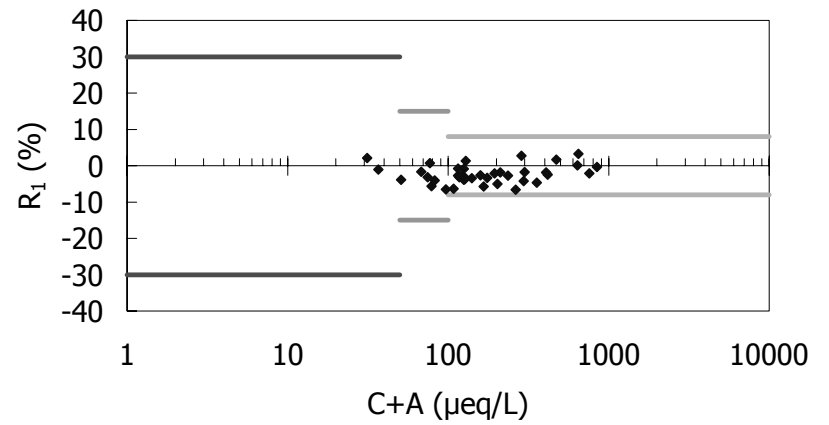


Fig. 3.21 a) Ijira Ion Balance (R_1)

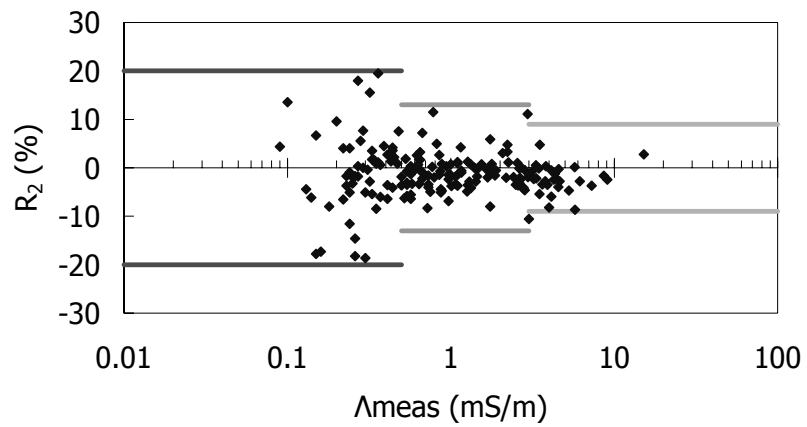


Fig. 3.20 b) Happo Conductivity Agreement (R_2)

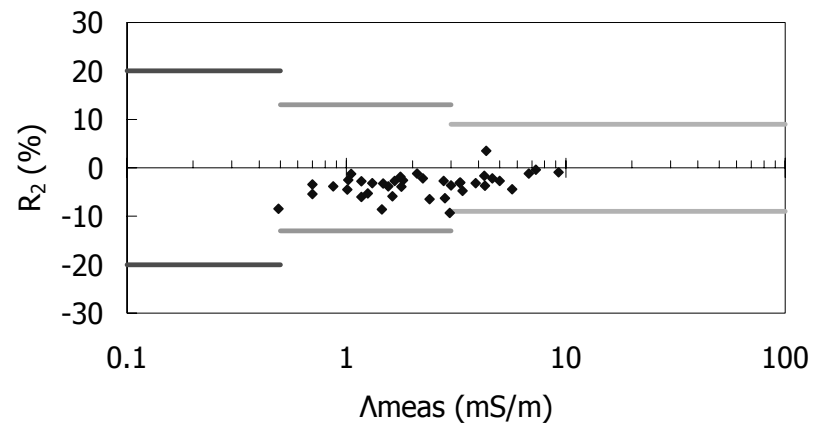


Fig. 3.21 b) Ijira Conductivity Agreement (R_2)

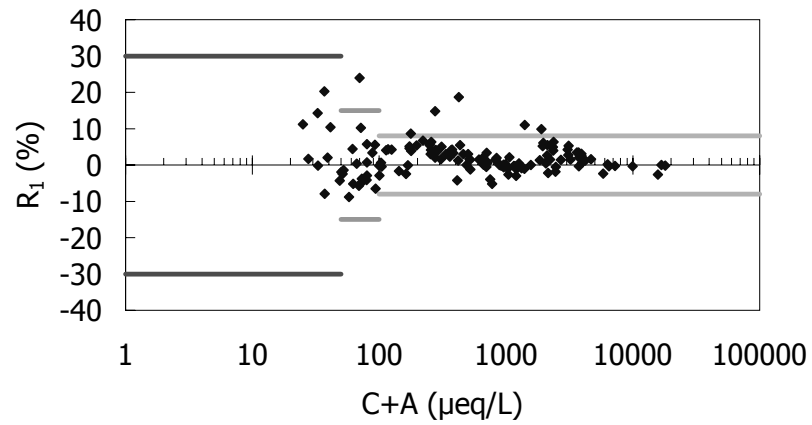


Fig. 3.22 a) Oki Ion Balance (R_1)

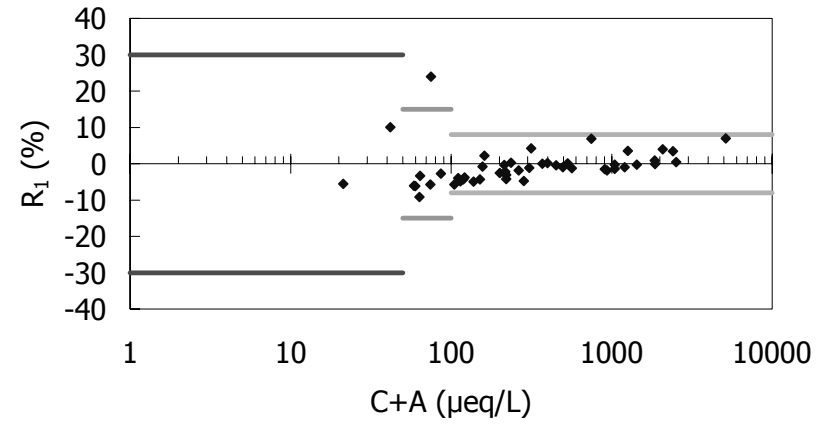


Fig. 3.23 a) Banryu Ion Balance (R_1)

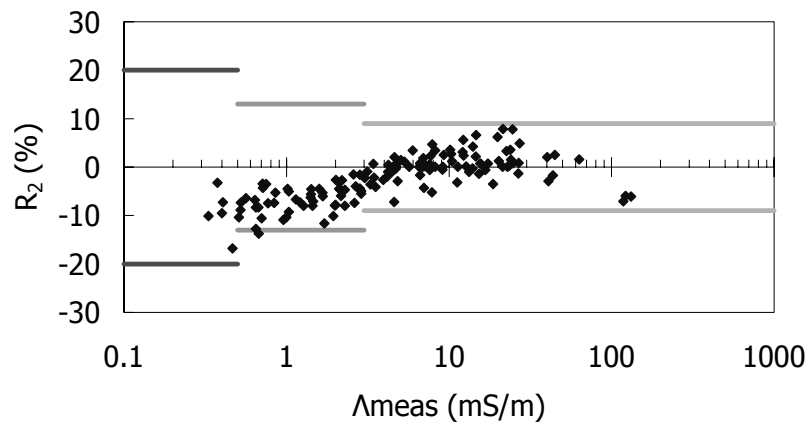


Fig. 3.22 b) Oki Conductivity Agreement (R_2)

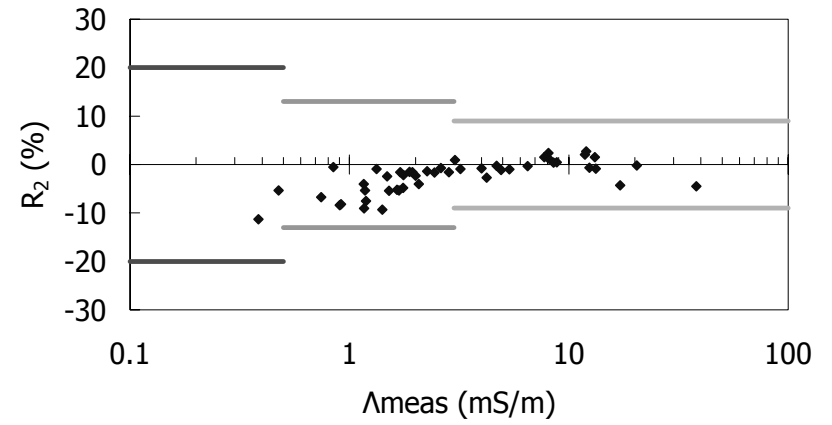


Fig. 3.23 b) Banryu Conductivity Agreement (R_2)

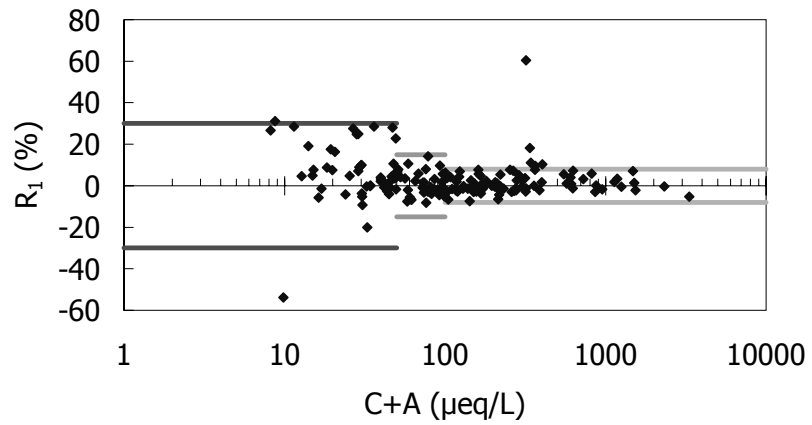


Fig. 3.24 a) Yusuhara Ion Balance (R_1)

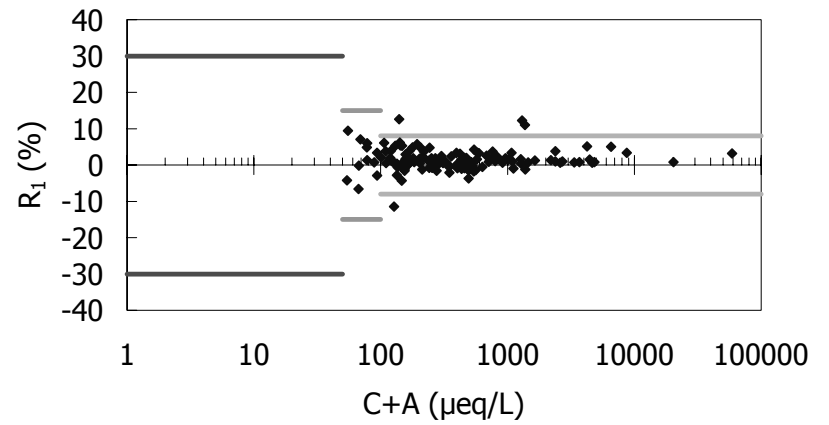


Fig. 3.25 a) Hedo Ion Balance (R_1)

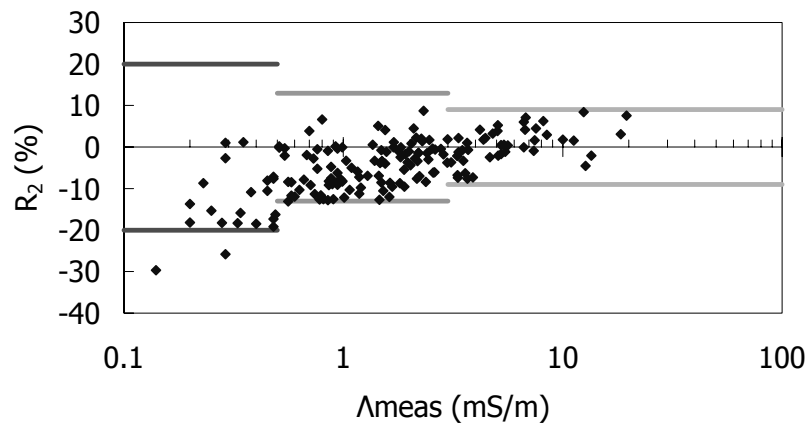


Fig. 3.24 b) Yusuhara Conductivity Agreement (R_2)

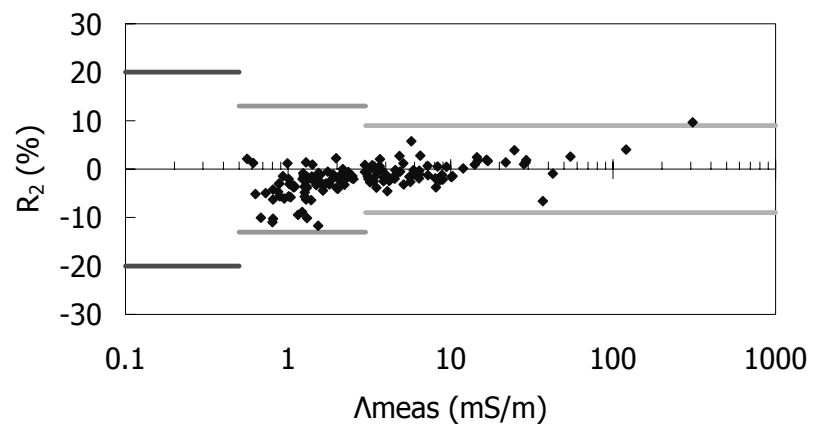


Fig. 3.25 b) Hedo Conductivity Agreement (R_2)

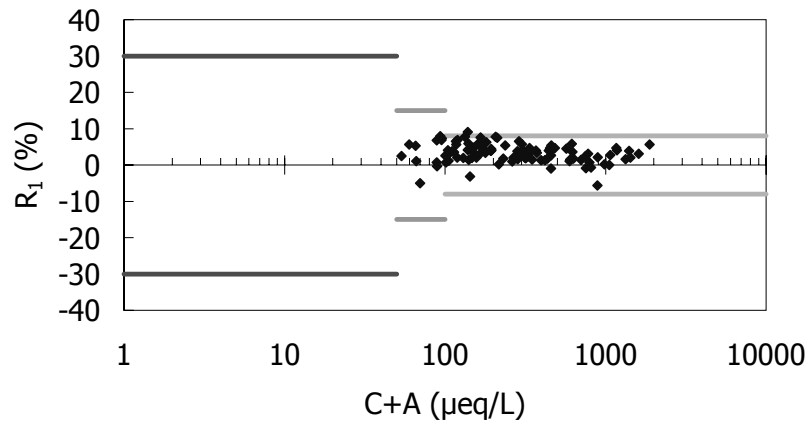


Fig. 3.26 a) Ogasawara Ion Balance (R_1)

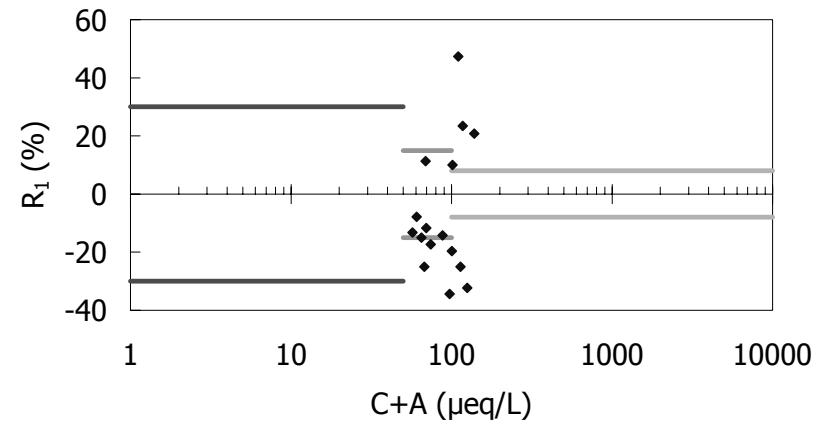


Fig. 3.27 a) Vientian Ion Balance (R_1)

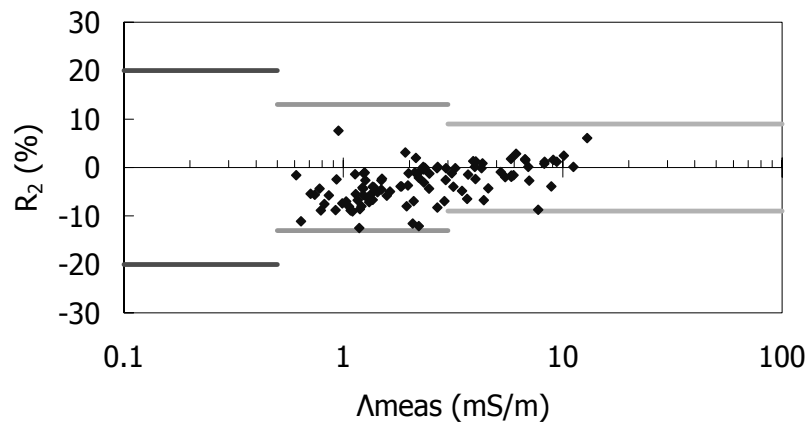


Fig. 3.26 b) Ogasawara Conductivity Agreement (R_2)

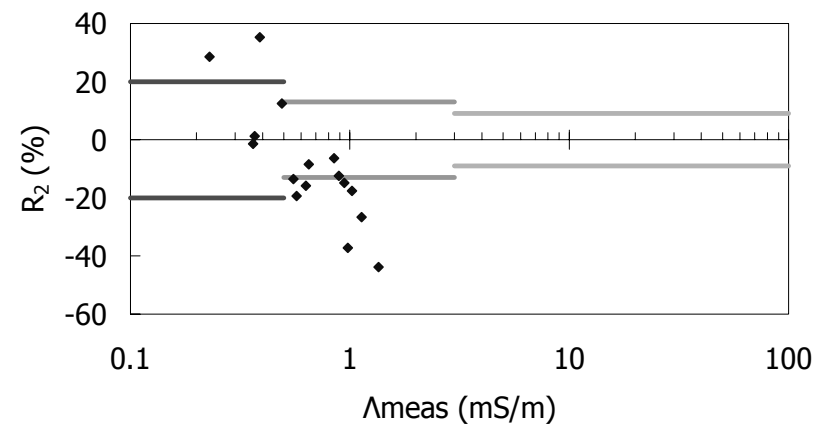


Fig. 3.27 b) Vientian Conductivity Agreement (R_2)

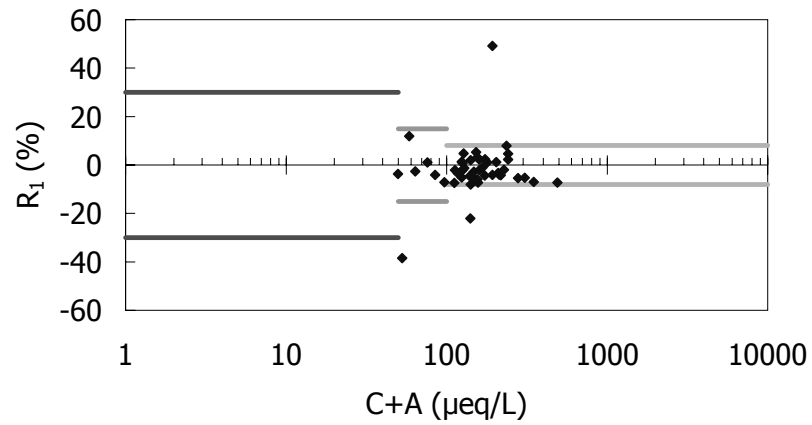


Fig. 3.28 a) Petaling Jaya Ion Balance (R_1)

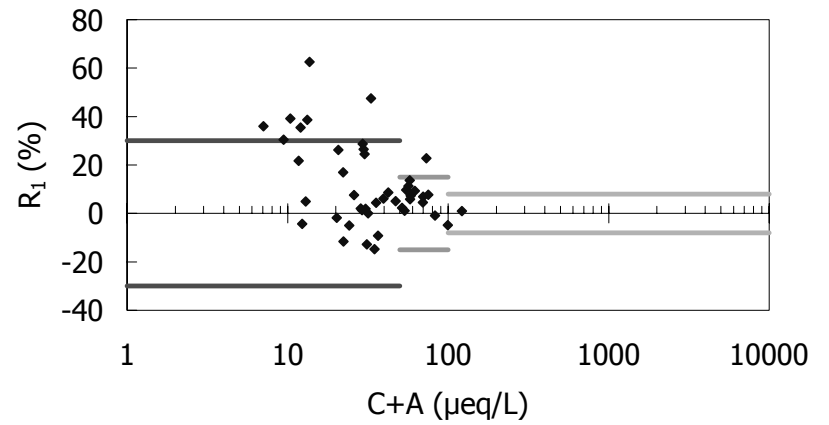


Fig. 3.29 a) Tanah Rata Ion Balance (R_1)

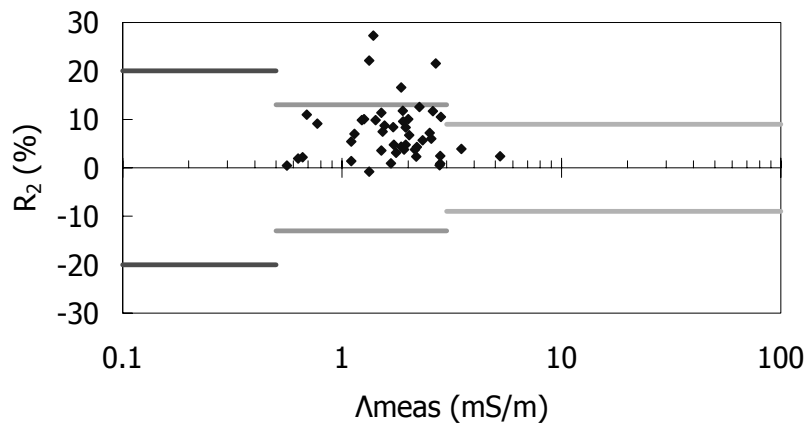


Fig. 3.28 b) Petaling Jaya Conductivity Agreement (R_2)

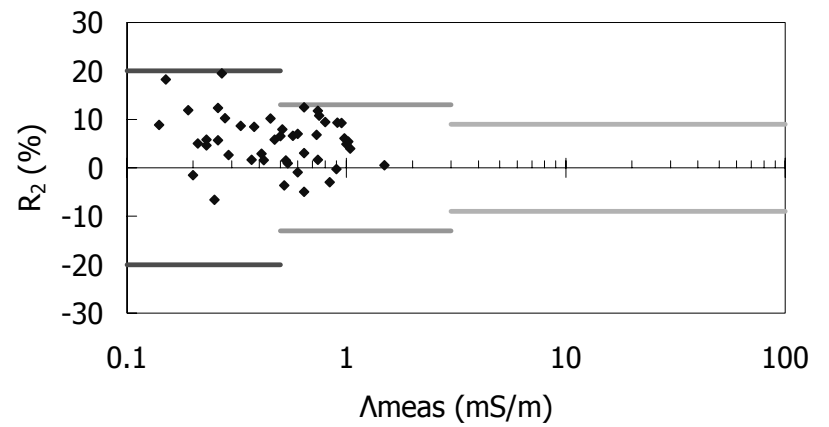


Fig. 3.29 b) Tanah Rata Conductivity Agreement (R_2)

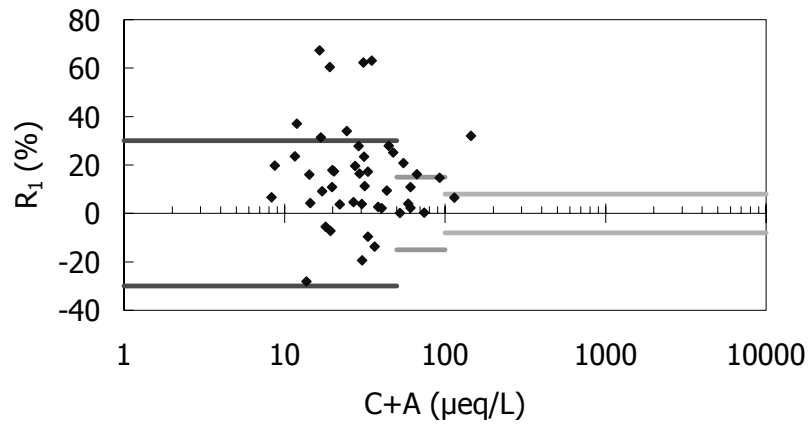


Fig. 3.30 a) Danum Valley Ion Balance (R_1)

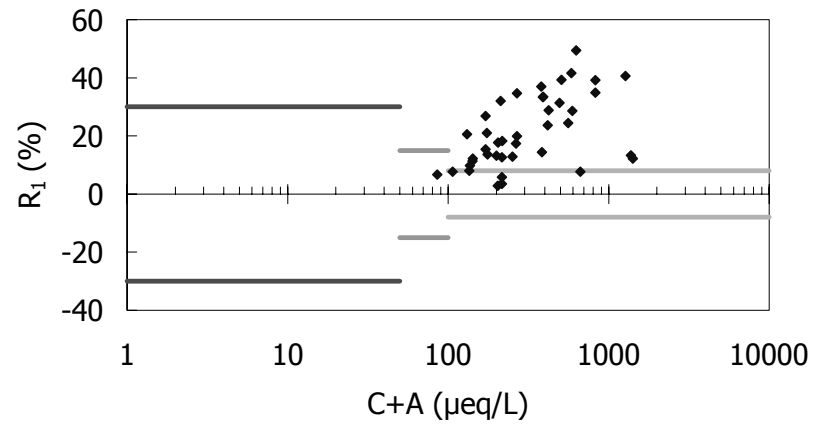


Fig. 3.31 a) Ulaanbaatar Ion Balance (R_1)

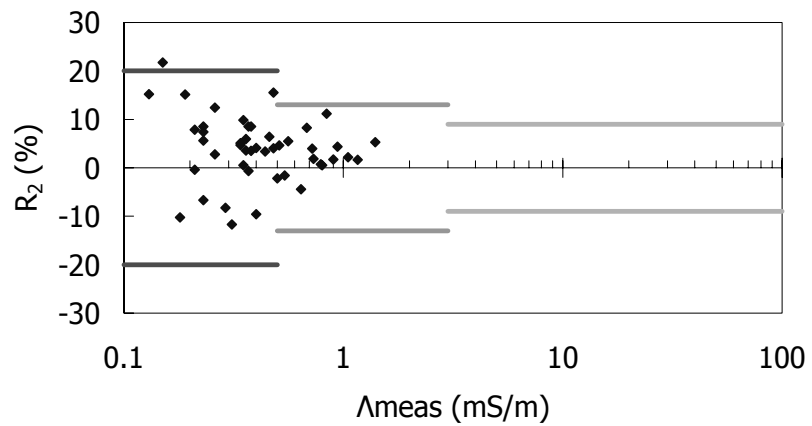


Fig. 3.30 b) Danum Valley Conductivity Agreement (R_2)

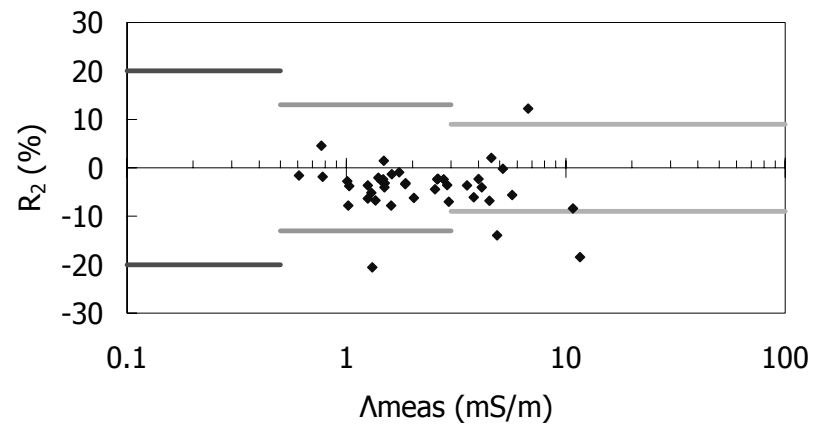


Fig. 3.31 b) Ulaanbaatar Conductivity Agreement (R_2)

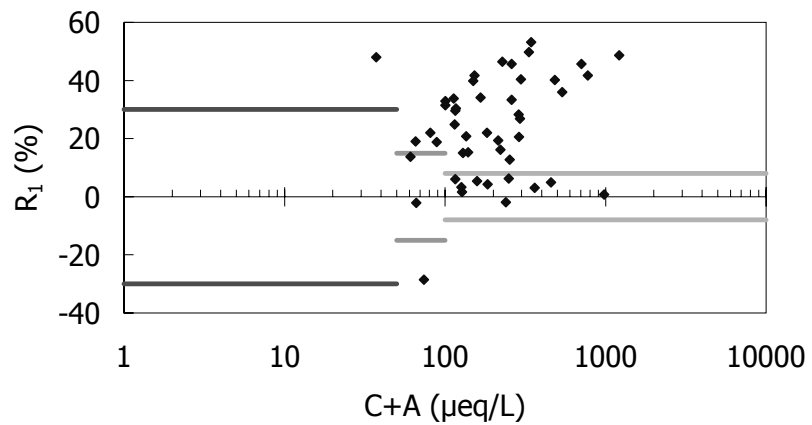


Fig. 3.32 a) Terej Ion Balance (R_1)

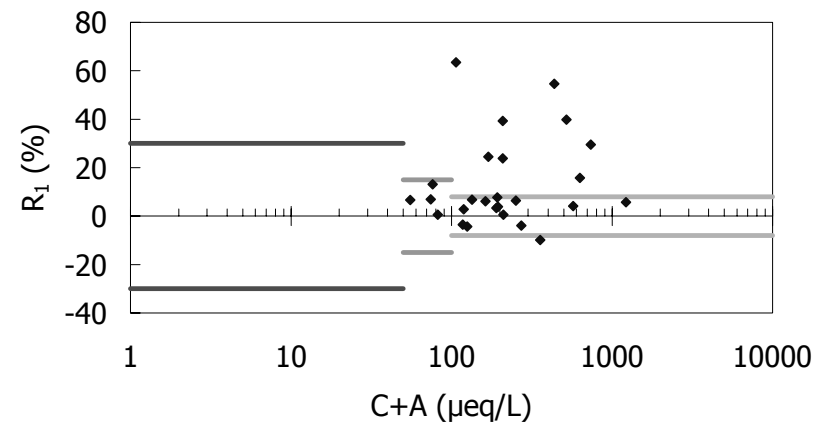


Fig. 3.33 a) Metro Manila Ion Balance (R_1)

Calculated including NO_2^-

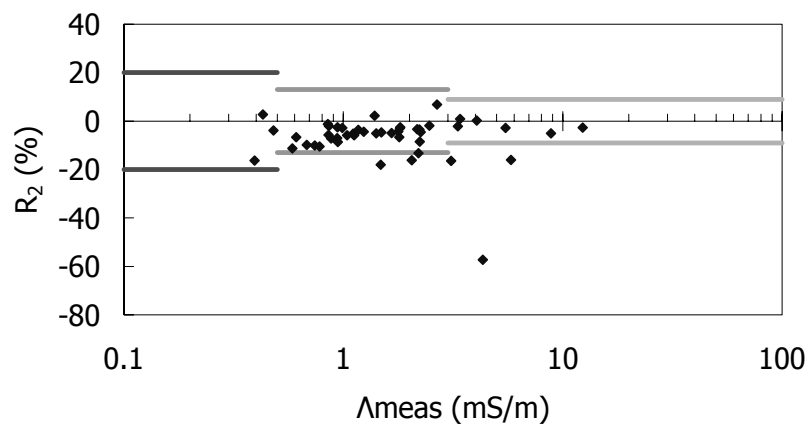


Fig. 3.32 b) Terej Conductivity Agreement (R_2)

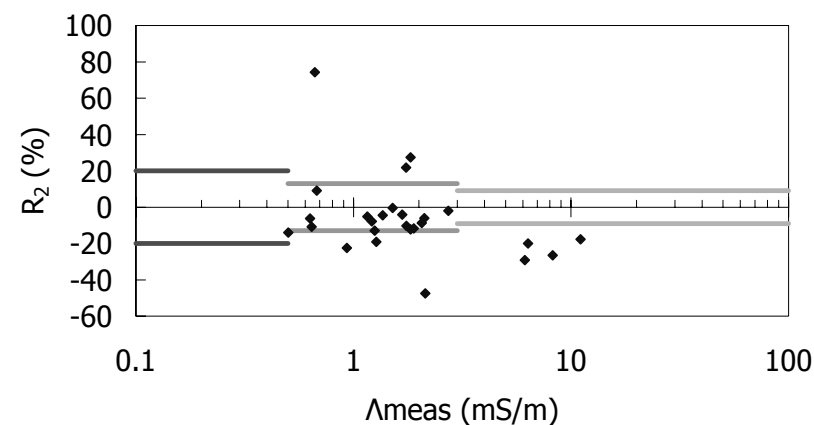


Fig. 3.33 b) Metro Manila Conductivity Agreement (R_2)

Calculated including NO_2^-

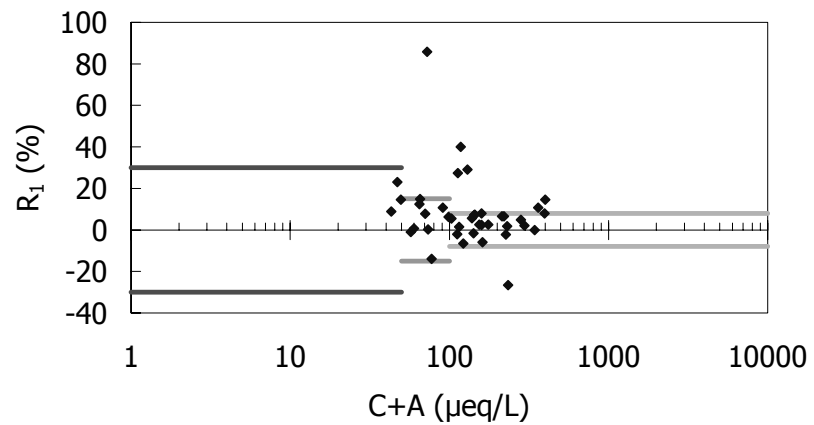


Fig. 3.34 a) Los Banos Ion Balance (R_1)

Calculated including NO_2^-

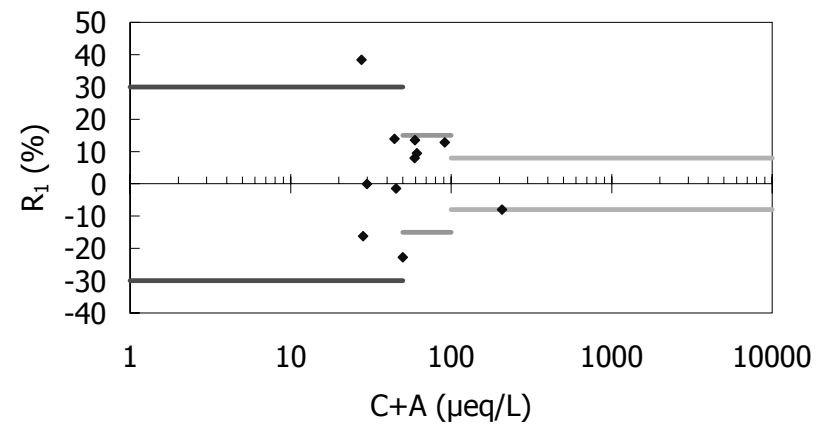


Fig. 3.35 a) Mt. Sto. Tomas Ion Balance (R_1)

Calculated including NO_2^-

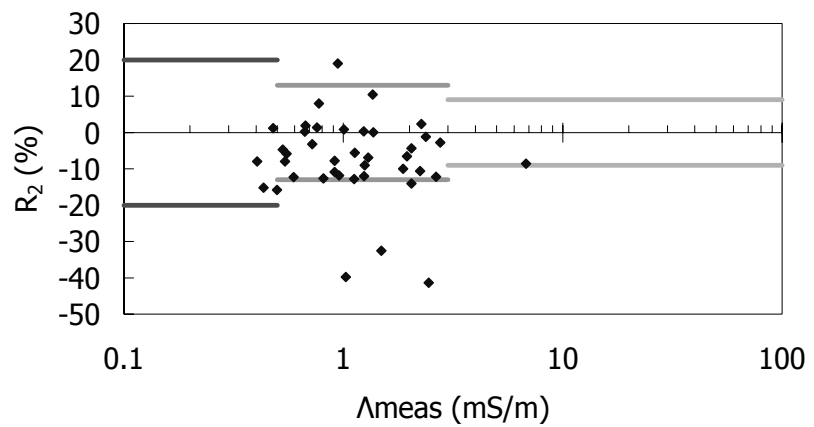


Fig. 3.34 b) Los Banos Conductivity Agreement (R_2)

Calculated including NO_2^-

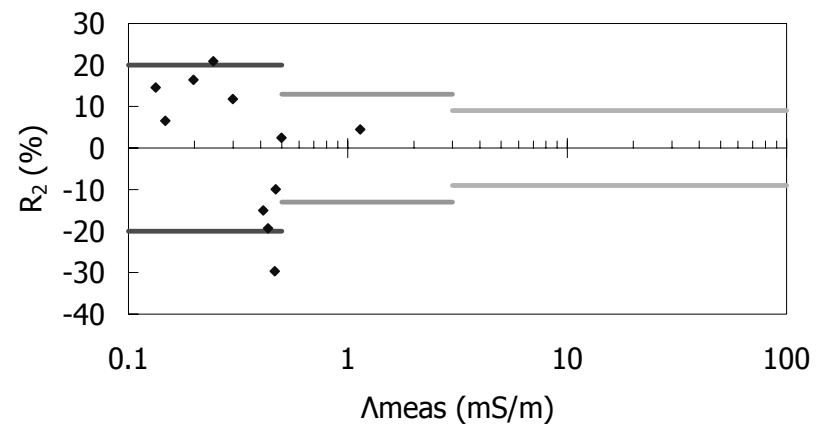


Fig. 3.35 b) Mt. Sto. Tomas Conductivity Agreement (R_2)

Calculated including NO_2^-

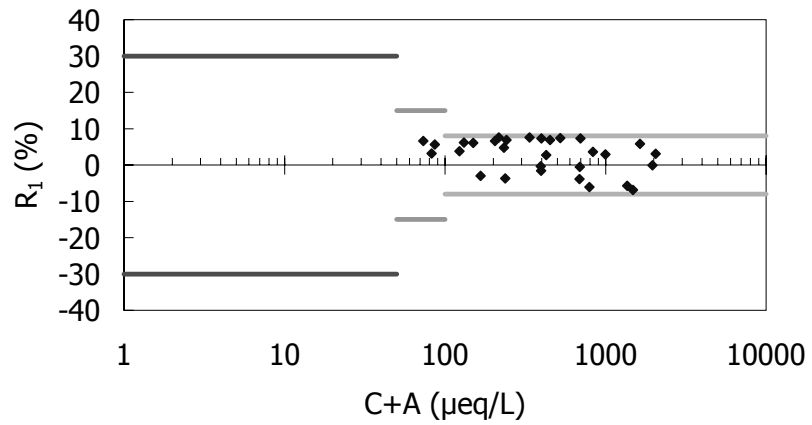


Fig. 3.36 a) Kanghwa Ion Balance (R_1)

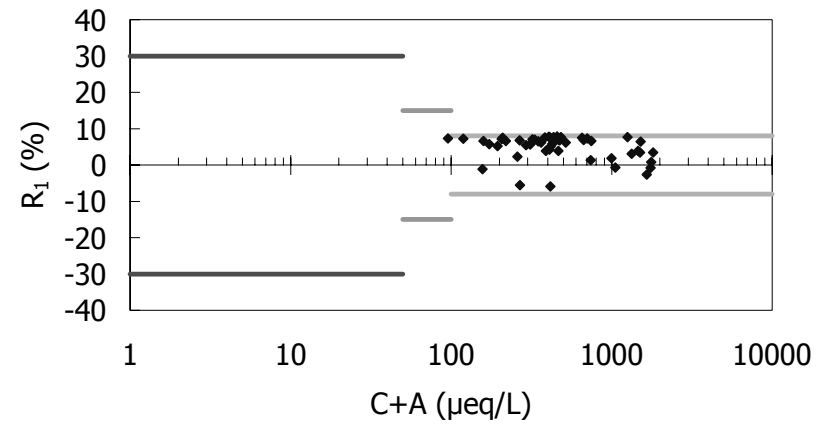


Fig. 3.37 a) Cheju (Kosan) Ion Balance (R_1)

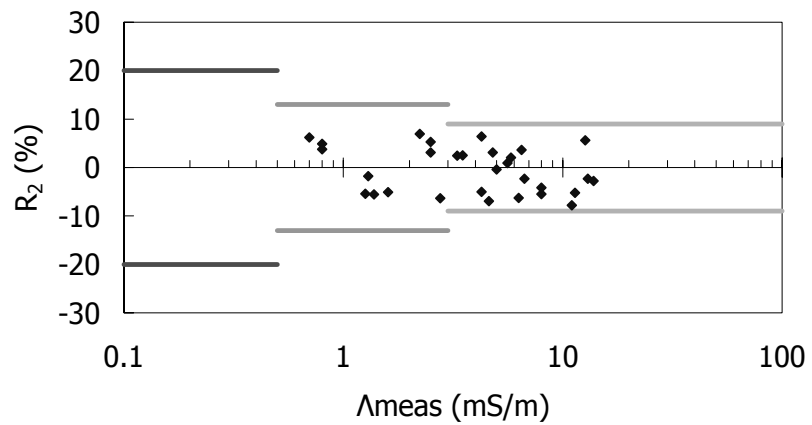


Fig. 3.36 b) Kanghwa Conductivity Agreement (R_2)

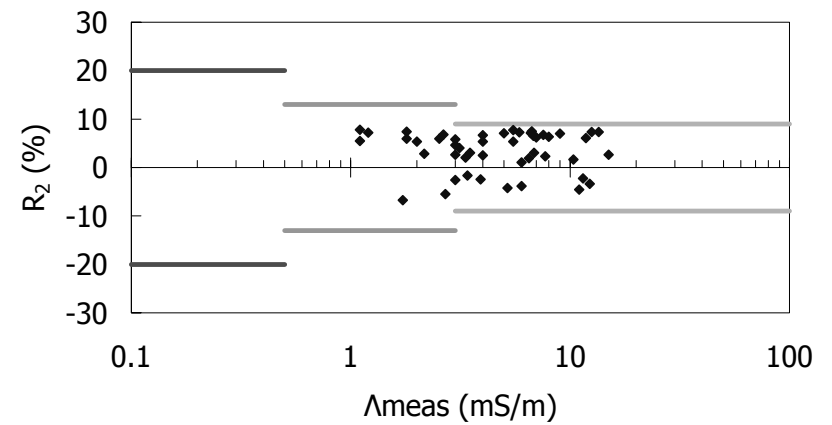


Fig. 3.37 b) Cheju (Kosan) Conductivity Agreement (R_2)

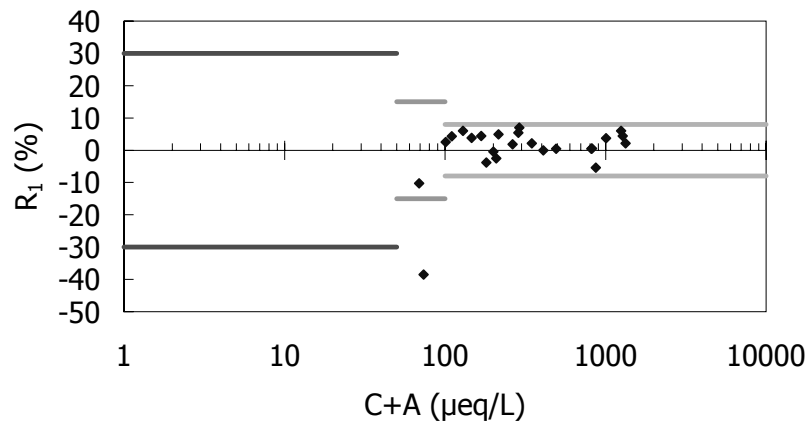


Fig. 3.38 a) Imsil Ion Balance (R_1)

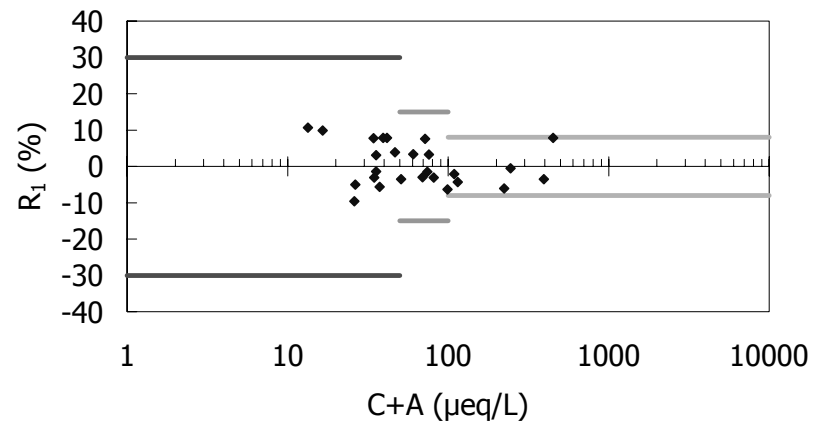


Fig. 3.39 a) Mondy Ion Balance (R_1)

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

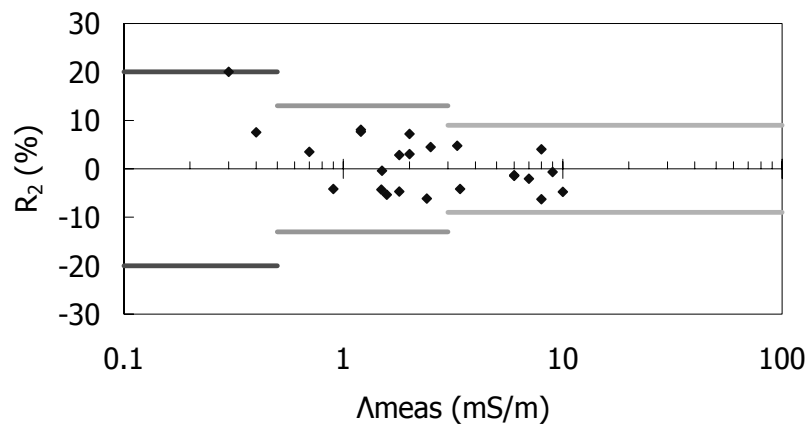


Fig. 3.38 b) Imsil Conductivity Agreement (R_2)

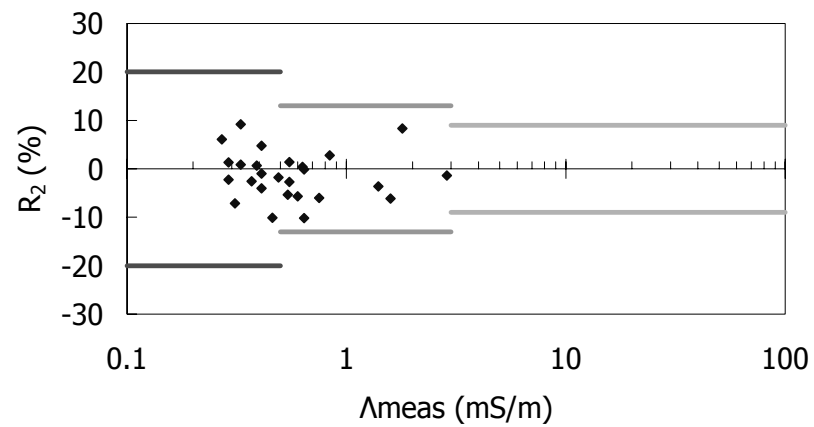


Fig. 3.39 b) Mondy Conductivity Agreement (R_2)

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

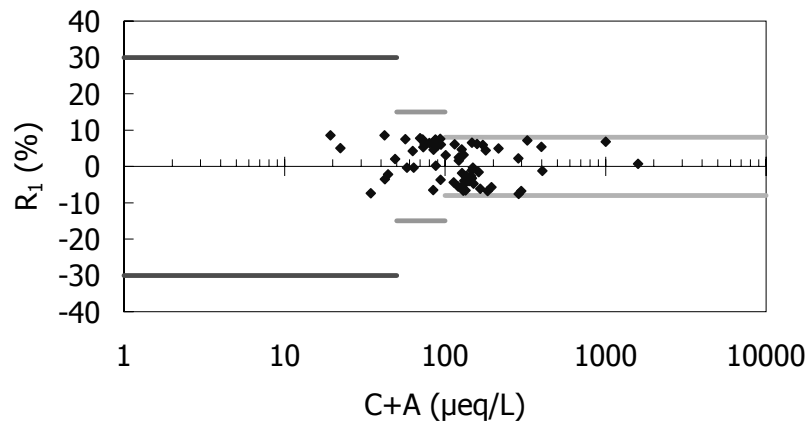


Fig. 3.40 a) Listvyanka Ion Balance (R_1)

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

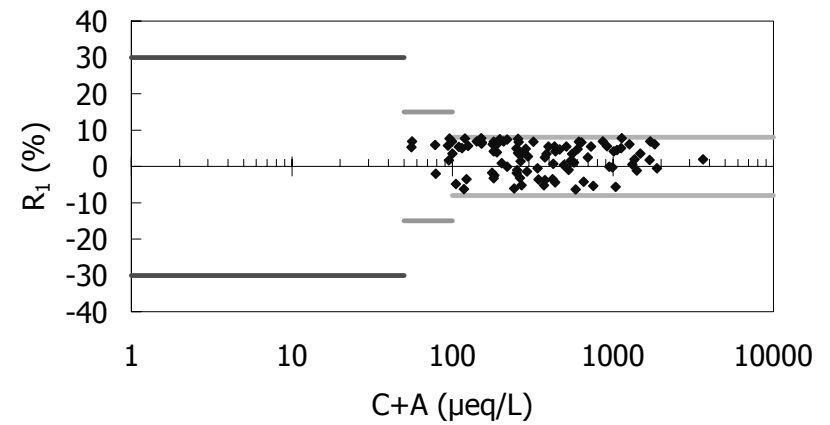


Fig. 3.41 a) Irkutsk Ion Balance (R_1)

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

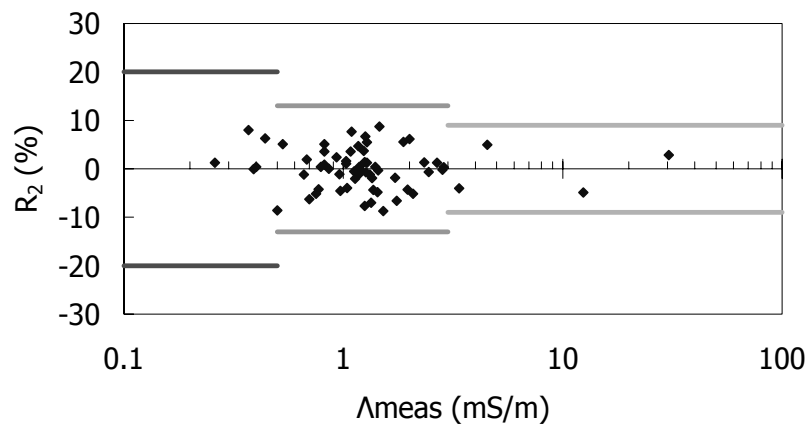


Fig. 3.40 b) Listvyanka Conductivity Agreement (R_2)

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

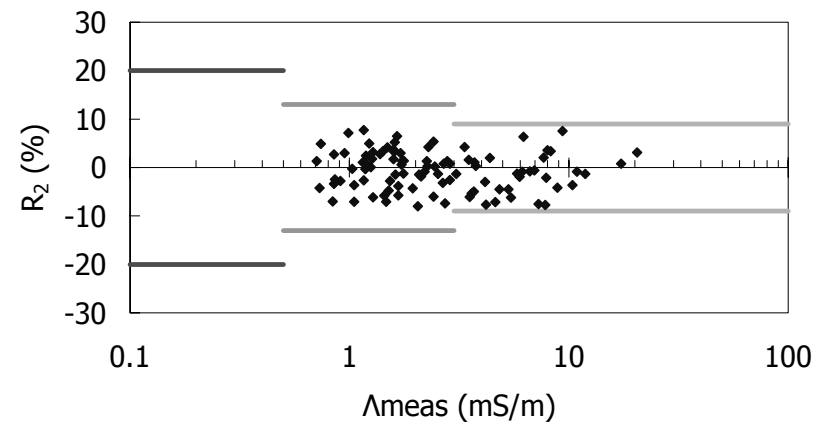


Fig. 3.41 b) Irkutsk Conductivity Agreement (R_2)

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

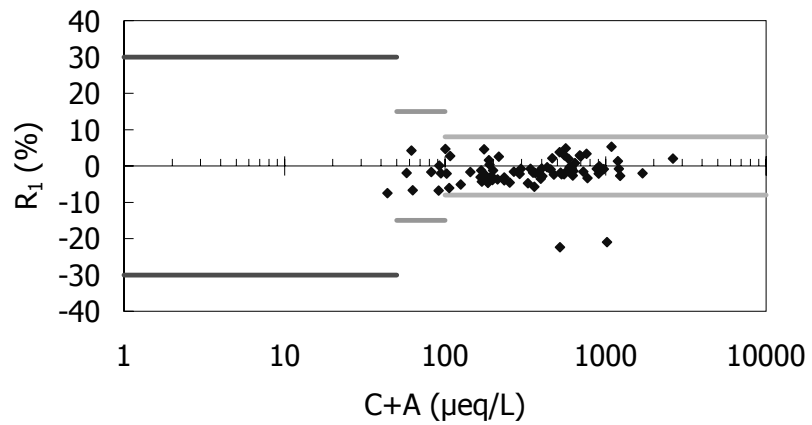


Fig. 3.42 a) Primorskaya Ion Balance (R_1)
Calculated including HCO_3^-

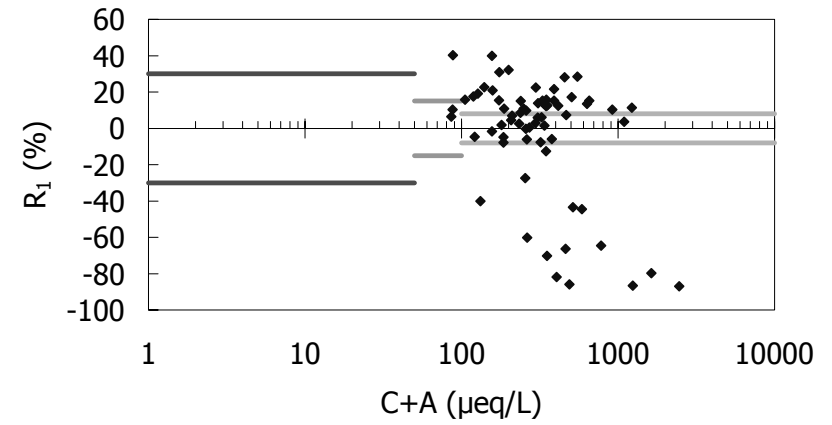


Fig. 3.43 a) Bangkok Ion Balance (R_1)

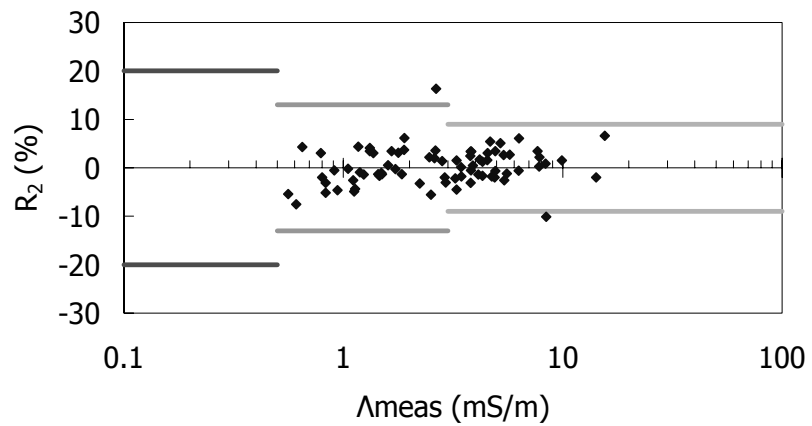


Fig. 3.42 b) Primorskaya Conductivity Agreement (R_2)
Calculated including HCO_3^-

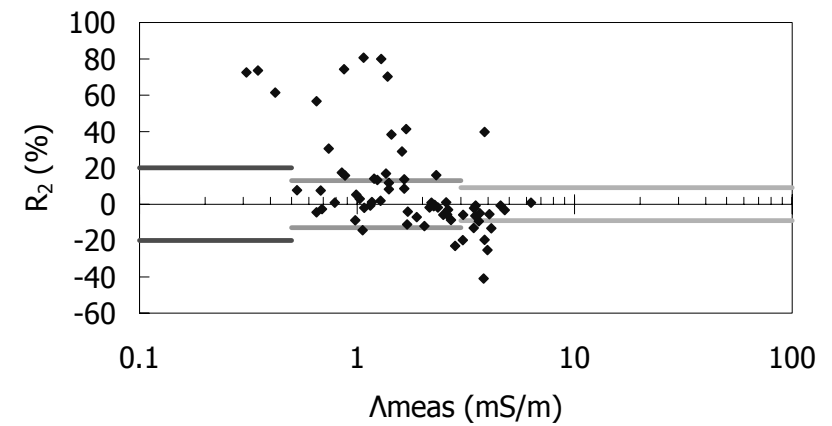


Fig. 3.43 b) Bangkok Conductivity Agreement (R_2)

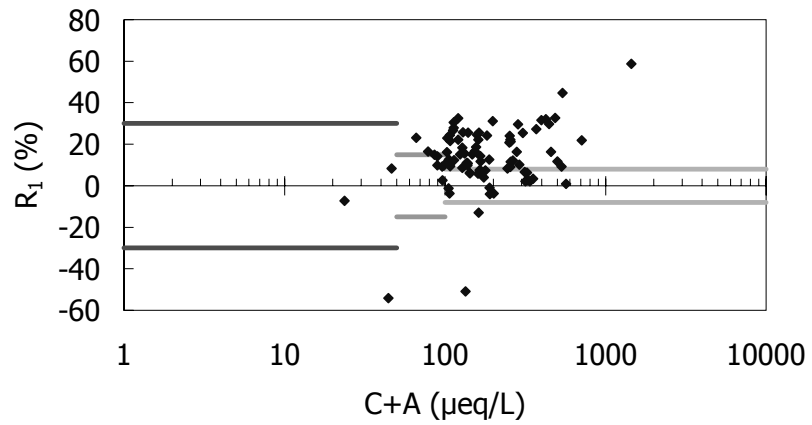


Fig. 3.44 a) Samutprakarn Ion Balance (R_1)

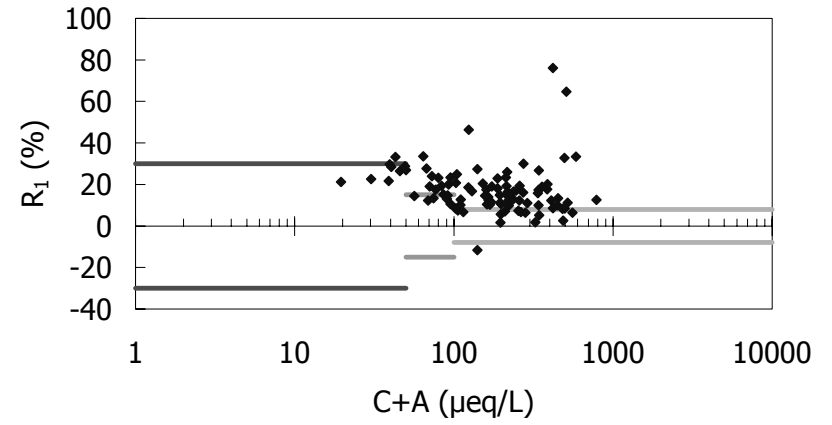


Fig. 3.45 a) Patumthani Ion Balance (R_1)

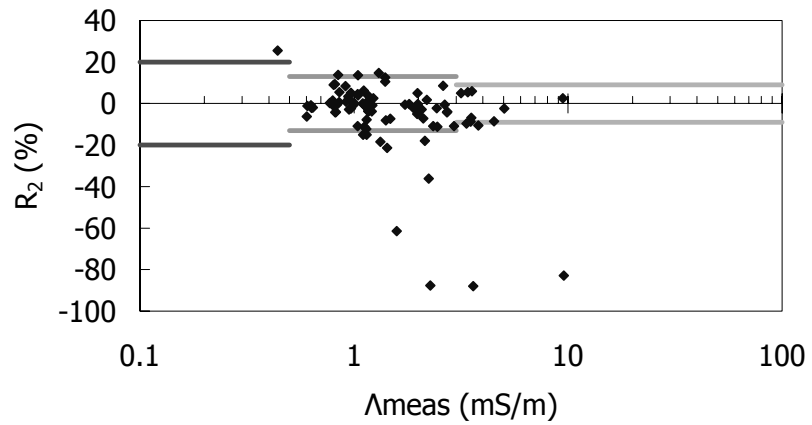


Fig. 3.44 b) Samutprakarn Conductivity Agreement (R_2)

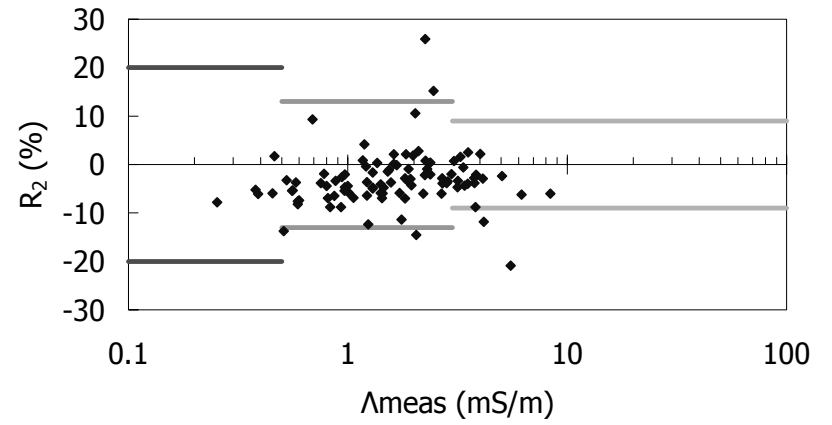


Fig. 3.45 b) Patumthani Conductivity Agreement (R_2)

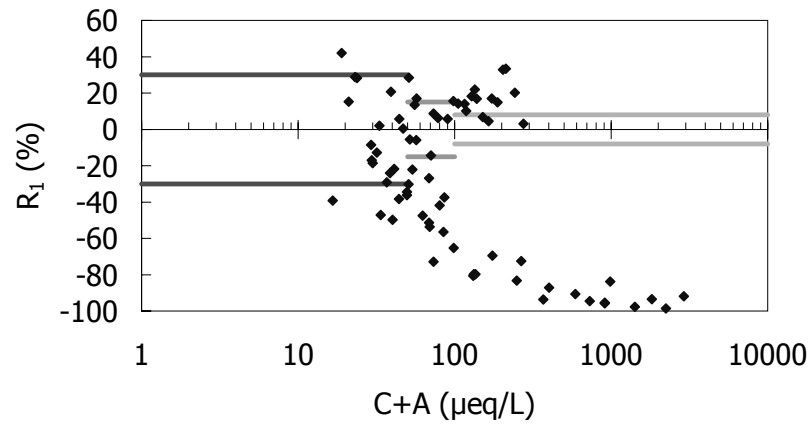


Fig. 3.46 a) Khanchanaburi Ion Balance (R_1)

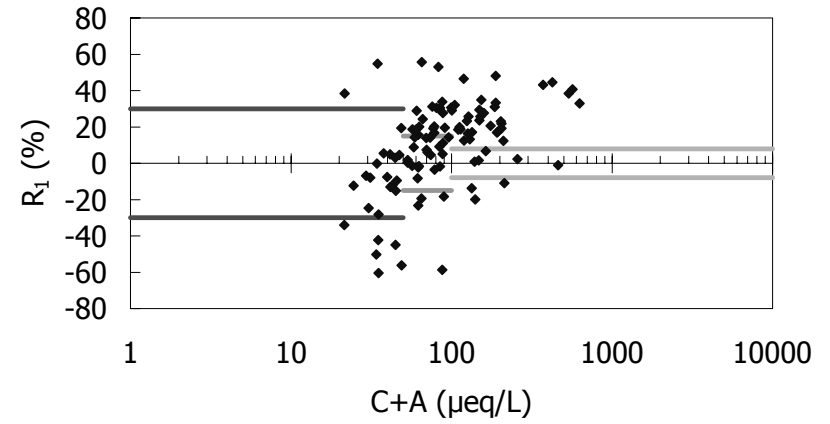


Fig. 3.47 a) Chiang Mai (Mae Hia) Ion Balance (R_1)

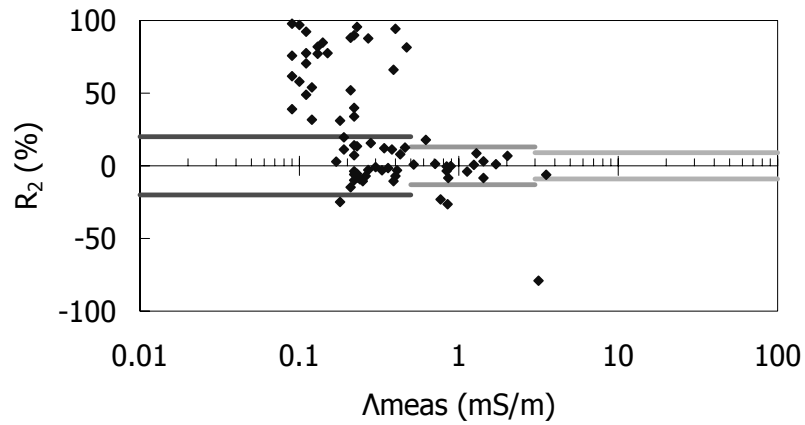


Fig. 3.46 b) Khanchanaburi Conductivity Agreement (R_2)

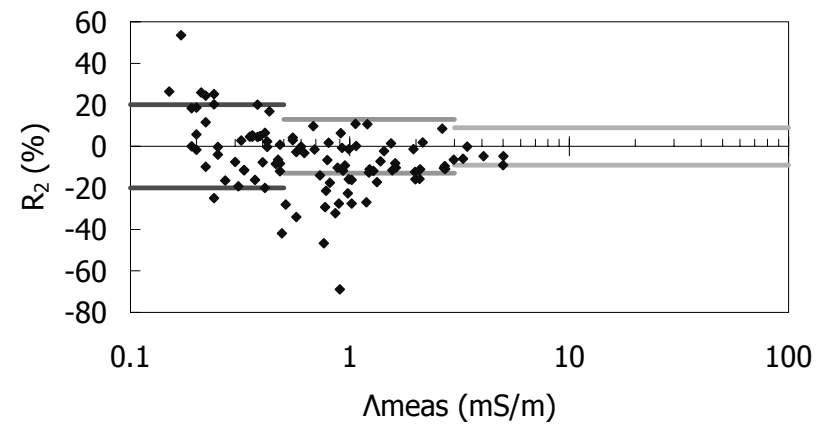


Fig. 3.47 b) Chiang Mai (Mae Hia) Conductivity Agreement (R_2)

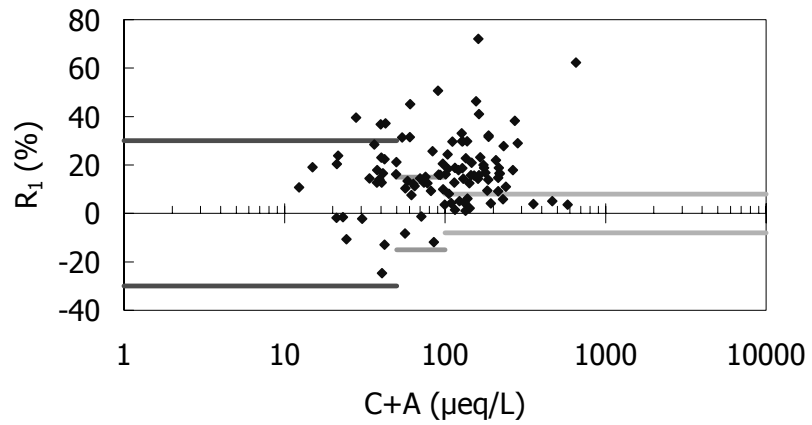


Fig. 3.48 a) Nakhon Ratchasima Ion Balance (R_1)

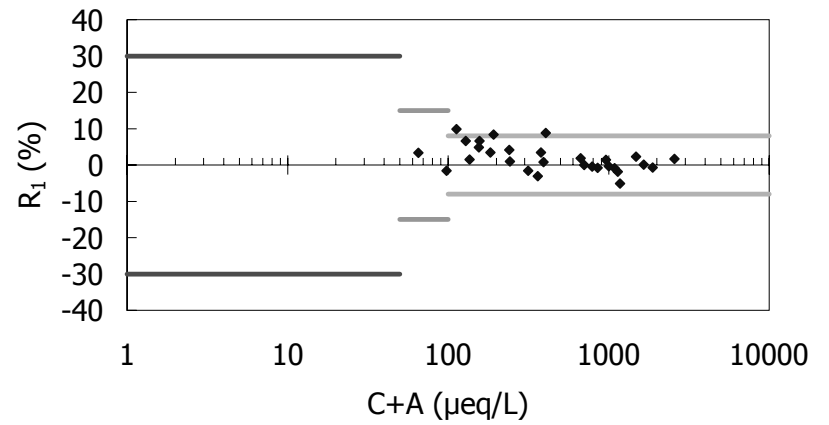


Fig. 3.49 a) Hanoi Ion Balance (R_1)

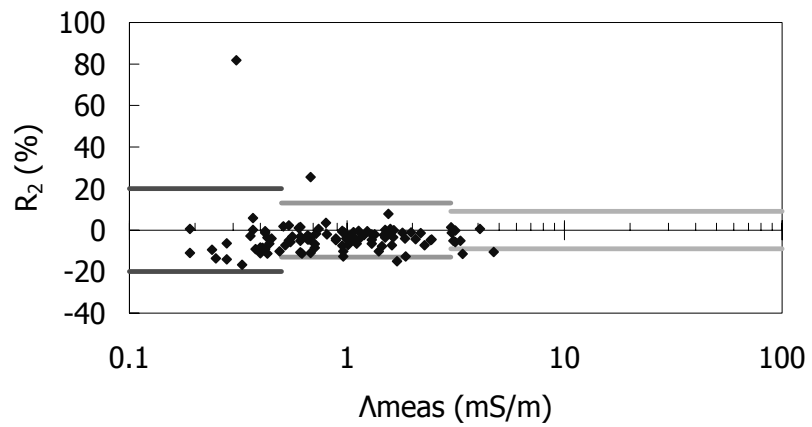


Fig. 3.48 b) Nakhon Ratchasima Conductivity Agreement (R_2)

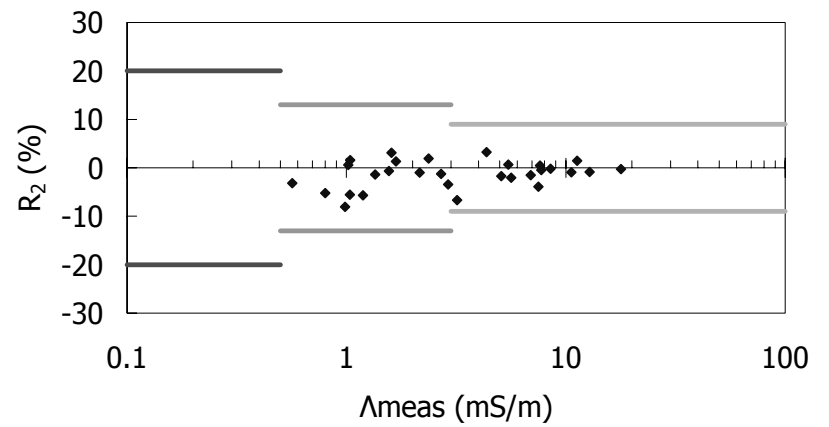


Fig. 3.49 b) Hanoi Conductivity Agreement (R_2)

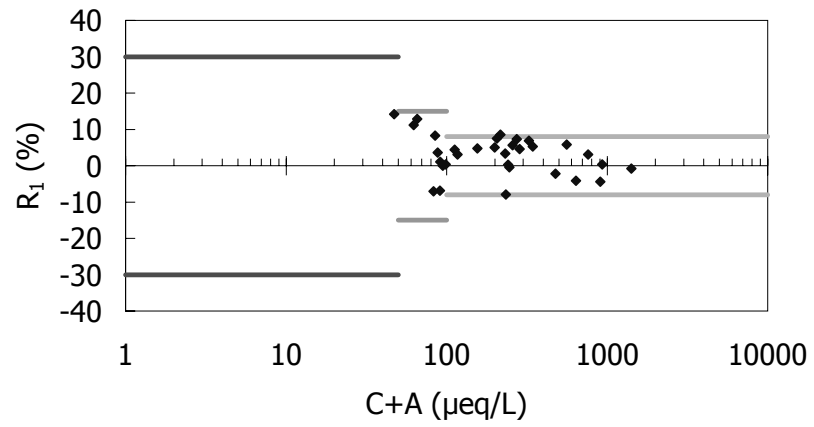


Fig. 3.50 a) Hoa Binh Ion Balance (R_1)

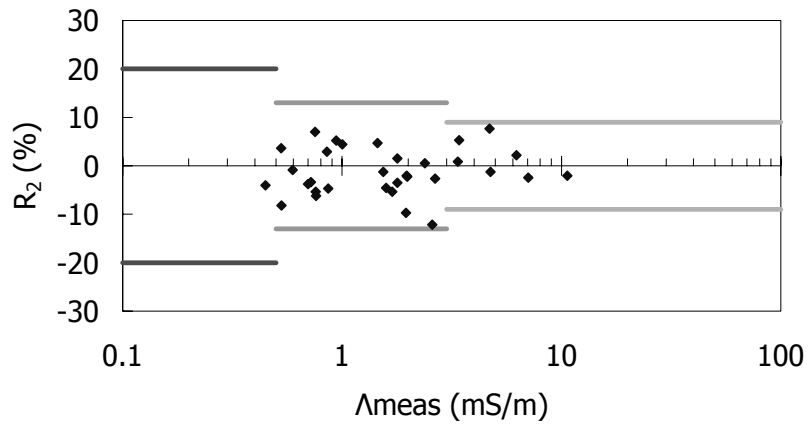


Fig. 3.50 b) Hoa Binh Conductivity Agreement (R_2)

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 2006. 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, NO₂ (urban), NO, O₃, and PM could be monitored by use of automatic monitoring methods. The QA/QC program for monitoring SO₂, NO₂ (urban), NO, 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⁻, Na⁺, K⁺, NH₄⁺, Ca²⁺, Mg²⁺).

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 2006 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 2006.

Preparation of filter pack

Stage	Specification of filter	Collected species
1 st (F0)	PTFE filter (pore size: 0.8 μ m, diameter: 47mm)	Aerosols
2 nd (F1)	Polyamide filter (pore size: 0.45 μ m, diameter: 47mm)	HNO ₃ , SO ₂ , HCl, NH ₃
3 rd (F2)	Impregnated cellulose filter Solution: 6% K ₂ CO ₃ + 2% glycerin	SO ₂ , HCl
4 th (F3)	Impregnated cellulose filter Solution: 5% phosphoric acid + 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 ₂ O ₂	SO ₄ ²⁻ , Cl ⁻
F3	Extracted by 20mL deionized water	NH ₄ ⁺



Chemical analysis

By Ion Chromatography or other suitable analytical methods
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Fig. 4.1 Specification of four-stage filter pack method

Table 4.1 Sampling Method and Parameter for Dry Deposition (Air Concentration) Monitoring in 2006

Country	Name of sites	Characteristics of sites	Method	Parameter	
China	Chongqing -Jinyunshan	Rural	AT	SO ₂ , NO, NO _x *, PM ₁₀	
	Xi'an -Weishuiyuan	Rural	AT	SO ₂ , NO, NO _x *, PM ₁₀	
	Xiamen -Hongwen	Urban	AT	SO ₂ , NO ₂ , PM ₁₀	
	Zhuhai -Xiang Zhou	Urban	AT	SO ₂ , NO ₂ , PM ₁₀	
Indonesia	Serpong	Rural	FP	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC	
Japan	Rishiri	Remote	AT FP	SO ₂ , NO, NO _x *, O ₃ , PM _{10/2.5} HNO ₃ , HCl, NH ₃ , PMC	
	Tappi	Remote	AT FP	SO ₂ , NO, NO _x *, O ₃ , PM ₁₀ HNO ₃ , HCl, NH ₃ , PMC	
	Sado-seki	Remote	AT FP	SO ₂ , NO, NO _x *, O ₃ , PM ₁₀ HNO ₃ , HCl, NH ₃ , PMC	
	Happo	Remote	AT FP	SO ₂ , NO, NO _x *, O ₃ , PM ₁₀ HNO ₃ , HCl, NH ₃ , PMC	
	Okii	Remote	AT FP	SO ₂ , NO, NO _x *, O ₃ , PM _{10/2.5} HNO ₃ , HCl, NH ₃ , PMC	
	Yusuhara	Remote	AT FP	SO ₂ , NO, NO _x *, O ₃ , PM ₁₀ HNO ₃ , HCl, NH ₃ , PMC	
	Ijira	Rural	AT FP	SO ₂ , NO, NO _x *, O ₃ , PM ₁₀ HNO ₃ , HCl, NH ₃ , PMC	
	Banryu	Urban	AT FP	SO ₂ , NO, NO ₂ , NO _x , O ₃ , PM ₁₀ HNO ₃ , HCl, NH ₃ , PMC	
	Hedo	Remote	AT FP	SO ₂ , NO, NO _x *, O ₃ , PM ₁₀ HNO ₃ , HCl, NH ₃ , PMC	
	Ogasawara	Remote	AT FP	SO ₂ , NO, NO _x *, O ₃ , PM ₁₀ HNO ₃ , HCl, NH ₃ , PMC	
	Malaysia	Tanah Rata	Remote	FP	SO ₂ , 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 2006 (continued)

Country	Name of sites	Characteristics of sites	Method	Parameter
Republic of Korea	Kanghwa	Rural	AT	SO ₂ , O ₃ , PM ₁₀
			FP	HNO ₃ , HCl, NH ₃ , PMC in PM _{2.5}
	Cheju (Kosan)	Remote	AT	SO ₂ , O ₃ , PM ₁₀
			FP	HNO ₃ , HCl, PMC in PM _{2.5}
	Imsil	Rural	AT	SO ₂ , O ₃ , PM ₁₀
			FP	HNO ₃ , HCl, NH ₃ , PMC in PM _{2.5}
Russia	Mondy	Remote	FP	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC
			AT	O ₃
	Listvyanka	Rural	FP	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC
	Irkutsk	Urban	FP	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC
Primorskaya	Rural	FP	SO ₂ , HNO ₃ , HCl, NH ₃ , PMC	
Thailand	Bangkok	Urban	AT	SO ₂ , NO, NO ₂ , NO _x , PM ₁₀
			FP	HNO ₃ , HCl, NH ₃ , PMC
	Samutprakarn	Urban	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
FP			HNO ₃ , HCl, NH ₃ , PMC	
Nakhon Ratchasima	Rural	FP	SO ₂ , 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, FP: Filter pack, PMC: particulate matter components

(Note 2) NO_x^{*}: NO_x measured by CLD in remote or rural sites.

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

Table 4.2 Methods of automatic monitors in 2006

Country	Sites	Parameter			
		SO ₂	NO _x	O ₃	PM ₁₀ (PM _{2.5})
China	Jinyunshan	UVF	CLD	-	β-ray
	Weishuiyuan	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
	Ogasawara	UVF	CLD	UVP	β-ray
	Sado-seki	UVF	CLD	UVP	TEOM
	Happo	UVF	CLD	UVP	β-ray
	Oki	UVF	CLD	UVP	TEOM (TEOM)
	Yusuhara	UVF	CLD	UVP	β-ray
	Hedo	UVF	CLD	UVP	β-ray
	Ijira	UVF	CLD	UVP	TEOM
	Banryu	UVF	CLD	UVP	TEOM
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	-	β-ray
	Samutprakarn	UVF	CLD	UVP	-
	Khanchanaburi	UVF	CLD	UVP	β-ray
	Chiang Mai	UVF	CLD	UVP	β-ray

(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 value,
Max-d	:	maximum value of daily data,
Min-d	:	minimum value of daily data,
Max-w	:	maximum value of weekly data,
Min-w	:	minimum value of weekly data,
Max-2w	:	maximum value of biweekly data,
Min-2w	:	minimum value of biweekly data,
Max-10d	:	maximum value of 10-day interval data,
Min-10d	:	minimum value of 10-day interval data,
Max-*	:	maximum value of flexible interval data,
Min-*	:	minimum value of flexible interval data,
%	:	monthly or annual percentage of period of available data,

In the [Table 4.3](#) through [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			2006												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
China	Jinyunshan	Mean	29.1	22.8	21.8	19.7	12.8	10.0	15.2	18.5	7.1	13.6	12.8	23.0	17.2	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-d	58.9	45.8	42.4	52.1	40.5	27.8	36.0	48.0	13.1	30.4	28.5	61.9	61.9	61.9
		Min-d	13.1	9.0	3.8	2.6	2.6	1.1	3.8	9.0	4.1	2.6	3.4	9.4	9.4	1.1
	Weishuiyuan	Mean	41.8	28.3	13.9	8.6	6.8	7.1	7.1	7.5	8.8	9.9	10.7	30.1	15.4	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-d	70.9	55.9	49.5	15.0	8.6	8.6	8.6	9.8	18.4	19.1	17.3	54.8	70.9	
		Min-d	17.3	6.4	10.9	5.3	5.3	5.3	5.3	5.3	3.4	6.4	6.4	19.1	3.4	
	Hongwen	Mean	8.8	7.9	10.9	9.8	7.6	4.7	4.2	7.0	8.0	10.8	17.1	14.6	9.4	
		%	100	96	100	100	100	100	100	100	100	100	100	100	100	
		Max-d	19.9	17.3	19.1	22.5	14.6	13.1	9.8	14.6	16.9	19.9	27.0	21.4	27.0	
		Min-d	2.6	2.6	4.5	1.1	2.3	0.8	0.8	1.9	2.3	6.8	8.6	6.8	0.8	
	Xiang Zhou	Mean	16.6	16.4	13.5	6.1	5.4	2.4	2.8	3.3	6.4	6.1	8.5	8.5	8.2	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-d	39.4	35.3	40.9	14.6	14.3	4.9	4.9	7.1	14.3	13.5	15.8	14.6	40.9	
Min-d		7.1	8.3	6.8	3.0	1.1	1.1	1.9	1.5	2.6	3.0	4.1	5.6	1.1		
Indonesia	Serpong	Mean	0.7	N.D.	0.2	0.2	0.5	0.3	0.7	0.5	0.5	1.3	0.5	0.5	0.5	
		%	100	33	100	100	100	100	100	100	100	35	58	100	88	
		Max-2w	0.8	-	0.3	0.3	0.7	0.6	0.8	0.6	0.6	-	-	0.7	1.3	
		Min-2w	0.6	-	N.D.	N.D.	0.3	0.2	0.5	0.3	0.3	-	-	0.3	N.D.	
Japan	Rishiri	Mean	0.4	0.7	0.3	N.D.	0.2	N.D.	N.D.	N.D.	N.D.	0.1	0.3	0.6	0.2	
		%	97	95	98	98	98	98	98	98	98	83	98	98	96	
		Max-d	2.3	2.2	0.9	0.5	1.2	0.4	0.3	0.2	0.2	0.8	1.1	3.0	3.0	
		Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tappi	Mean	0.5	0.7	0.6	0.4	0.7	0.4	0.3	0.3	0.4	0.4	0.7	1.0	0.5	
		%	88	99	99	98	99	84	99	90	69	94	97	98	93	
		Max-d	1.5	2.0	1.7	1.3	2.4	1.1	1.5	1.0	1.0	1.2	2.0	4.1	4.1	
		Min-d	0.2	0.2	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.2	N.D.	
	Sado-seki	Mean	0.8	0.6	0.8	0.6	0.4	0.3	N.D.	0.1	N.D.	0.2	0.5	1.1	0.5	
		%	86	98	98	97	97	97	89	97	97	98	97	98	96	
		Max-d	3.4	2.3	2.4	4.2	1.4	1.2	0.5	0.4	0.3	1.0	2.0	4.7	4.7	
		Min-d	0.1	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Happo	Mean	0.8	0.6	1.4	0.7	0.5	0.5	N.D.	0.3	0.2	0.4	0.5	1.0	0.6	
		%	89	99	99	98	95	80	98	86	88	98	98	98	94	
		Max-d	3.9	2.6	5.5	4.8	2.2	4.2	0.5	0.7	0.9	2.1	2.8	4.8	5.5	
		Min-d	N.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.	
	Ijira	Mean	0.1	0.1	0.3	0.2	0.2	0.3	0.1	0.4	N.D.	0.2	0.1	0.1	0.2	
		%	98	99	98	99	99	98	98	99	98	99	90	99	98	
		Max-d	1.0	0.3	0.8	1.0	0.5	1.2	0.4	1.1	0.3	0.5	0.5	0.3	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.	
	Okii	Mean	1.3	1.0	1.0	0.7	0.5	0.4	0.1	N.D.	0.1	0.5	1.0	2.4	0.7	
		%	96	96	68	97	95	98	93	68	96	95	97	73	89	
		Max-d	15.9	5.5	3.3	3.7	3.0	3.4	0.6	0.5	0.5	1.9	4.4	9.4	15.9	
		Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.3	N.D.	
Banryu	Mean	-	-	-	-	-	-	-	0.6	0.5	0.4	0.5	0.9	0.6		
	%	0	0	0	0	0	0	0	86	94	96	98	97	40		
	Max-d	-	-	-	-	-	-	-	1.3	2.3	0.9	1.9	3.1	3.1		
	Min-d	-	-	-	-	-	-	-	0.2	0.2	N.D.	N.D.	N.D.	N.D.		
Yusuhara	Mean	1.9	1.4	1.6	1.0	0.7	0.5	0.3	0.3	0.3	0.7	1.0	1.6	0.9		
	%	99	99	99	98	99	99	99	99	99	92	99	99	99		
	Max-d	13.9	4.2	5.8	2.6	3.4	1.8	1.2	0.9	0.9	3.7	2.8	5.1	13.9		
	Min-d	0.1	0.3	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	0.2	N.D.		
Hedo	Mean	0.5	0.3	0.9	0.4	0.2	N.D.	N.D.	0.1	0.2	0.2	0.7	0.5	0.3		
	%	79	98	98	98	97	98	97	44	98	97	97	96	91		
	Max-d	1.9	2.1	5.9	1.3	1.6	0.4	N.D.	0.7	1.7	1.8	4.8	2.4	5.9		
	Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		
Ogasawara	Mean	0.1	N.D.	0.1	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	-	N.D.	0.1	0.1		
	%	97	97	97	98	98	98	96	98	86	0	30	97	83		
	Max-d	0.7	0.4	0.8	0.5	0.2	N.D.	N.D.	N.D.	0.2	-	0.1	0.5	0.8		
	Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	N.D.	N.D.	N.D.		
Malaysia	TanahRata	Mean	0.2	N.D.	0.2	0.2	N.D.	0.1	N.D.	0.1	N.D.	0.3	N.D.	N.D.	0.1	
		%	100	100	100	100	100	100	100	100	100	100	100	100		
		Max	0.3	0.1	0.3	0.4	N.D.	0.3	0.1	0.2	0.1	0.7	N.D.	N.D.	0.7	
		Min	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Petaling Jaya	Mean	2.5	3.4	6.2	6.1	4.2	3.9	6.8	9.3	8.5	13.5	3.0	N.D.	6.3	
		%	100	100	100	100	100	100	100	100	100	100	25	20	87	
		Max-w	3.4	4.5	7.9	8.7	5.7	5.2	10.8	15.8	13.5	29.4	-	-	29.4	
		Min-w	0.6	2.3	5.4	2.2	2.4	1.1	1.6	5.7	2.7	0.8	-	-	N.D.	
	Danum Valley	Mean	0.1	N.D.	0.4	N.D.	0.2	N.D.	N.D.	0.2	0.2	0.2	0.1	0.1	0.1	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.1	N.D.	0.6	N.D.	0.3	0.1	N.D.	0.2	0.3	0.3	0.1	0.2	0.6	
		Min-w	0.1	N.D.	0.2	N.D.	N.D.	N.D.	N.D.	0.1	0.2	0.2	0.1	N.D.	N.D.	

Table 4.3 SO₂

Unit : ppb			2006												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Mongolia	Ulaanbaatar	Mean	-	-	-	3.0	2.9	-	-	-	1.1	2.9	4.8	10.3	4.8
		%	0	0	0	100	45	0	0	0	83	90	47	90	57
		Max-w	-	-	-	4.2	3.3	-	-	-	2.1	4.5	5.4	13.0	13.0
		Min-w	-	-	-	1.9	2.4	-	-	-	N.D.	1.8	4.2	7.3	N.D.
	Terej	Mean	0.7	0.7	0.7	0.3	0.3	0.2	0.2	0.3	0.4	0.3	0.8	0.8	0.5
		%	100	100	100	100	89	85	100	100	100	100	100	100	96
		Max-2w	1.1	1.1	1.0	0.4	0.4	0.2	0.2	0.4	0.5	0.3	1.0	0.9	1.1
		Min-2w	0.4	0.4	0.5	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.7	0.6	0.2
Philippines	Metro Manila	Mean	2.0	2.3	1.9	0.5	3.0	3.0	2.0	-	1.2	0.7	N.D.	N.D.	2.1
		%	94	100	100	67	100	100	80	0	76	52	100	100	74
		Max-w	2.3	3.5	3.3	-	5.4	3.9	2.6	-	1.7	0.8	N.D.	N.D.	5.4
		Min-w	1.6	1.6	0.4	-	1.7	0.8	1.5	-	0.9	0.6	N.D.	N.D.	N.D.
	Los Banos	Mean	N.D.	N.D.	N.D.	0.1	0.3	0.5	0.4	0.5	0.8	0.4	0.5	N.D.	0.3
		%	100	100	80	100	100	25	20	33	40	100	45	100	83
		Max-w	0.1	N.D.	0.2	0.3	0.5	-	-	-	1.2	0.7	0.7	0.1	1.2
		Min-w	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	-	0.5	0.2	0.4	N.D.	N.D.
	Mt. Sto. Tomas	Mean	-	-	-	-	-	-	-	-	-	N.D.	N.D.	N.D.	0.1
		%	0	0	0	0	0	0	0	0	0	84	78	100	35
		Max-w	-	-	-	-	-	-	-	-	-	N.D.	N.D.	N.D.	0.0
		Min-w	-	-	-	-	-	-	-	-	-	N.D.	N.D.	N.D.	N.D.
Republic of Korea	Kanghwa	Mean	3.0	4.0	3.0	3.0	2.0	2.0	3.0	5.0	3.0	1.0	6.0	6.0	3.4
		%	96	99	99	97	97	92	99	95	95	99	99	99	97
		Max-d	6.0	10.0	6.0	5.0	4.0	4.0	6.0	12.0	6.0	8.0	16.0	15.0	16.0
		Min-d	2.0	2.0	1.0	2.0	1.0	1.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0
	Cheju	Mean	6.0	5.0	6.0	2.0	3.0	2.0	2.0	2.0	2.0	4.0	3.0	4.0	3.4
		%	100	98	98	93	97	99	100	99	99	100	56	99	95
		Max-d	20.0	12.0	23.0	7.0	9.0	5.0	6.0	5.0	3.0	7.0	7.0	12.0	23.0
		Min-d	3.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	3.0	1.0	1.0	1.0
	Imsil	Mean	3.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	2.0	3.0	1.8
		%	99	100	100	100	99	99	100	99	99	99	99	100	99
		Max-d	7.0	4.0	3.0	3.0	5.0	3.0	2.0	1.0	1.0	4.0	4.0	6.0	7.0
		Min-d	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Russia	Mondy	Mean	1.6	2.1	1.5	0.5	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.7
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.7	2.1	1.6	0.8	0.2	0.3	0.4	0.4	0.2	0.5	0.7	0.7	2.1
		Min-2w	1.6	2.1	1.4	0.2	0.2	N.D.	N.D.	N.D.	0.2	N.D.	0.1	0.4	N.D.
	Listvianka	Mean	5.7	7.3	4.6	4.6	3.3	5.5	2.2	0.2	1.1	1.8	2.7	1.5	3.5
		%	92	100	100	100	100	100	100	100	100	100	100	100	98
		Max*	9.7	9.7	5.9	6.0	4.6	8.2	6.0	0.3	2.3	2.8	3.8	2.3	9.7
		Min*	2.0	5.2	1.6	2.8	1.8	3.3	0.2	0.2	0.4	1.1	1.5	0.8	0.2
	Irkutsk	Mean	10.8	9.5	10.8	4.3	1.7	1.7	0.4	0.3	0.9	2.4	3.3	3.2	4.0
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	20.3	15.7	17.2	6.6	2.5	3.3	0.7	0.5	1.8	2.9	3.8	4.2	20.3
		Min-w	5.6	6.6	7.7	2.4	1.0	0.9	0.2	0.1	N.D.	1.8	2.9	1.9	N.D.
Primorskaya	Mean	3.0	2.3	1.3	0.7	0.9	0.3	0.5	0.7	0.2	1.4	1.6	1.8	1.2	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-2w	4.0	2.5	1.6	1.0	1.0	0.4	0.7	1.2	0.2	1.6	2.1	2.1	4.0	
	Min-2w	2.0	2.1	1.0	0.4	0.8	0.2	0.3	0.2	0.1	1.2	1.1	1.6	0.1	
Thai Land	Bangkok	Mean	6.0	5.0	4.3	4.5	4.2	3.6	3.5	3.7	3.7	2.9	4.4	3.9	4.1
		%	94	93	94	100	100	100	100	100	100	100	97	71	96
		Max-d	11.5	8.5	9.3	6.6	7.3	5.0	6.3	8.0	7.5	6.0	10.6	7.3	11.5
		Min-d	1.8	2.4	1.3	1.5	1.5	1.8	1.0	1.5	1.5	1.4	1.7	1.6	1.0
	Samutprakarn	Mean	8.2	6.1	4.4	4.4	6.9	8.4	8.0	9.5	5.9	3.9	5.5	5.4	6.5
		%	100	100	90	100	97	100	100	100	100	100	100	100	99
		Max-d	16.2	12.8	13.3	9.6	15.0	14.0	16.3	17.1	9.6	8.0	10.6	12.0	17.1
		Min-d	2.8	1.4	1.2	0.3	1.9	1.9	1.2	4.2	2.3	1.4	1.7	0.7	0.3
	Patumthani	Mean	0.2	0.3	0.6	0.8	0.4	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.3
		%	100	100	100	100	100	100	100	100	100	100	100	100	97
		Max-10d	0.2	0.3	0.8	1.4	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.2	1.4
		Min-10d	0.2	0.3	0.5	0.3	0.3	N.D.	0.2	0.2	0.1	0.2	0.1	N.D.	N.D.
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	1.1	3.8	-	-	-	0.6	-	-	-	1.0	1.3
		%	0	0	39	3	0	0	0	10	0	0	0	13	5
		Max-d	-	-	3.3	-	-	-	-	1.5	-	-	-	1.4	3.8
		Min-d	-	-	0.3	-	-	-	-	N.D.	-	-	-	0.7	N.D.
Chiangmai (Mae Hia)	Mean	1.4	1.2	0.7	0.6	0.5	0.4	0.4	0.6	0.4	0.6	0.6	0.8	0.8	
	%	55	64	68	47	32	23	52	39	33	23	30	68	44	
	Max-d	1.9	2.1	1.9	1.4	1.1	0.6	0.8	1.0	0.8	1.1	1.1	1.4	2.1	
	Min-d	0.4	0.4	0.2	0.2	0.3	0.2	0.2	0.2	N.D.	0.3	0.2	0.2	N.D.	
Nakhon Ratchasima	Mean	5.1	2.4	1.7	4.1	1.4	1.2	1.7	6.1	1.3	1.9	2.3	N.D.	2.7	
	%	100	100	62	100	100	100	36	100	58	100	100	66	88	
	Max-10d	8.4	4.4	1.9	8.1	1.8	1.9	-	11.2	1.3	2.2	2.8	-	11.2	
	Min-10d	1.9	0.3	1.5	2.1	1.1	0.5	-	1.9	1.3	1.6	1.7	-	N.D.	

Table 4.3 SO₂

Unit : ppb			2006												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Viet Nam	Ha Noi	Mean	2.7	6.3	5.1	4.5	4.4	3.4	3.3	3.1	3.0	3.7	3.8	4.4	3.9	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	5.8	9.7	6.6	5.2	6.1	4.1	3.9	3.4	3.8	4.1	4.5	5.5	9.7	
	Hoa Binh	Min-w	1.3	4.4	4.0	3.9	3.5	2.9	2.7	2.9	2.1	3.1	2.9	3.4	1.3	
		Mean	2.0	2.2	1.7	1.5	2.2	2.3	1.5	1.4	1.8	2.0	2.3	3.3	2.0	
		%	100	33	100	100	100	100	100	100	100	100	100	100	96	
	Max-w	2.9	-	3.3	2.1	2.7	2.5	1.9	1.6	2.2	2.4	3.0	4.0	4.0		
	Min-w	1.3	-	0.7	0.9	1.4	2.0	1.0	1.2	1.4	1.7	1.8	2.2	0.7		

Mean : monthly or annual arithmetic average value

Max-d : maximum value of daily data

Min-d : minimum value of daily data

Max-10d : maximum value of 10-day interval data

Min-10d : minimum value of 10-day interval data

Max-w : maximum value of weekly data

Min-w : minimum value of weekly data

Max-2w : maximum value of biweekly data

Min-2w : minimum value of biweekly data

Max-* : maximum value of flexible interval data

Min-* : minimum value of flexible interval data

% : monthly or annual percentage of period of available data

Table 4.4 HNO₃

Unit : ppb			2006												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Indonesia	Serpong	Mean	N.D.	N.D.	N.D.	0.3	0.2	0.3	N.D.	0.6	0.5	0.5	0.1	0.2	0.2	
		%	100	33	100	100	100	100	100	100	100	100	35	58	100	88
		Max-2w	N.D.	-	0.1	0.5	0.2	0.6	0.1	0.7	0.5	-	-	-	0.3	0.7
		Min-2w	N.D.	-	N.D.	0.1	0.1	N.D.	N.D.	0.6	0.5	-	-	-	0.1	N.D.
Japan	Rishiri	Mean	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.1	0.2	N.D.	N.D.	N.D.	N.D.	0.1	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	N.D.	N.D.	N.D.	N.D.	0.1	0.2	0.1	0.3	N.D.	N.D.	N.D.	N.D.	N.D.	0.3
		Min-2w	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Tappi	Mean	N.D.	N.D.	N.D.	N.D.	0.2	0.3	0.2	0.6	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	100
		Max-2w	N.D.	N.D.	N.D.	N.D.	0.4	0.4	0.2	0.8	0.2	N.D.	N.D.	N.D.	N.D.	0.8
		Min-2w	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	0.1	0.4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Sado-seki	Mean	N.D.	N.D.	0.1	0.1	0.4	0.8	0.3	0.6	0.1	0.2	N.D.	N.D.	N.D.	0.3
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	N.D.	0.1	0.1	0.2	0.6	0.8	0.4	0.9	0.2	0.3	N.D.	0.1	0.9	
		Min-2w	N.D.	N.D.	N.D.	N.D.	0.2	0.8	0.2	0.4	N.D.	0.1	N.D.	N.D.	N.D.	N.D.
	Happo	Mean	N.D.	0.2	0.2	0.1	0.4	0.8	0.4	0.6	0.3	0.4	0.2	0.2	0.3	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	N.D.	0.3	0.2	0.2	0.4	0.9	0.5	0.7	0.4	0.5	0.3	0.2	0.9	
		Min-2w	N.D.	0.2	0.1	N.D.	0.4	0.7	0.2	0.4	0.2	0.3	0.1	0.2	N.D.	
	Ijira	Mean	0.1	0.1	0.2	0.2	0.6	1.0	0.5	1.1	0.4	0.4	0.1	N.D.	0.4	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.2	0.2	0.2	0.2	0.9	1.2	0.5	1.5	0.5	0.4	0.1	0.1	1.5	
		Min-2w	N.D.	0.1	0.2	0.2	0.5	0.7	0.4	0.8	0.4	0.3	0.1	N.D.	N.D.	
	Oki	Mean	N.D.	0.1	0.1	0.1	0.3	0.6	0.3	0.4	N.D.	0.2	0.1	0.2	0.2	
		%	100	100	100	100	100	100	100	100	100	52	85	100	93	
		Max-2w	N.D.	0.1	0.1	0.1	0.4	0.6	0.3	0.6	N.D.	-	0.2	0.4	0.6	
		Min-2w	N.D.	N.D.	0.1	0.1	0.2	0.5	0.2	0.2	N.D.	-	N.D.	N.D.	N.D.	
Banryu	Mean	0.2	0.2	0.3	0.2	0.4	0.7	0.4	0.7	0.2	0.4	0.1	0.2	0.3		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	0.2	0.2	0.3	0.2	0.5	0.8	0.5	1.1	0.3	0.7	0.1	0.2	1.1		
	Min-2w	0.1	0.2	0.3	0.2	0.3	0.7	0.3	0.3	N.D.	0.2	N.D.	0.2	N.D.		
Yusuhara	Mean	0.4	0.4	0.5	0.3	0.3	0.6	0.2	0.3	0.3	0.5	0.4	0.5	0.5		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	0.5	0.4	0.5	0.4	0.4	1.0	0.3	0.3	0.4	0.7	0.7	0.6	1.0		
	Min-2w	0.3	0.4	0.5	0.2	0.3	0.3	N.D.	0.2	0.3	0.4	0.2	0.5	N.D.		
Hedo	Mean	N.D.	N.D.	0.1	0.1	0.1	N.D.	N.D.	N.D.	N.D.	0.2	0.1	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.	0.1	0.1	0.2	N.D.	N.D.	0.2	0.3	0.1	0.1	N.D.	0.3		
	Min-2w	N.D.	N.D.	0.1	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	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.	0.0	
	%	100	100	100	100	100	100	100	100	80	50	100	61	90		
	Max-w	0.1	N.D.	N.D.	N.D.	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	
	Min-w	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Malaysia	TanahRata	Mean	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	0.2	0.1	0.1	N.D.	N.D.	0.1	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.2	N.D.	0.1	N.D.	0.2	0.1	0.4	0.3	0.2	0.3	N.D.	N.D.	N.D.	0.4
		Min-w	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Petaling Jaya	Mean	1.1	0.3	1.1	1.5	1.1	1.6	1.4	1.8	1.9	5.8	0.3	3.4	1.8	
		%	100	100	100	100	100	100	100	100	100	100	25	40	88	
		Max-w	1.7	0.5	1.2	3.3	2.6	3.4	3.1	5.1	3.6	17.9	-	6.8	17.9	
		Min-w	0.4	N.D.	0.9	0.2	0.2	0.3	0.3	0.5	0.3	0.6	-	N.D.	N.D.	
	Danum Valley	Mean	N.D.	N.D.	N.D.	0.1	N.D.	N.D.	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	0.0	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	N.D.	N.D.	N.D.	0.1	N.D.	N.D.	N.D.	0.2	N.D.	0.1	N.D.	N.D.	0.2	
		Min-w	N.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.	
Mongolia	Ulaanbaatar	Mean	-	-	-	N.D.	0.3	-	-	-	N.D.	0.1	0.2	N.D.	0.1	
		%	0	0	0	100	45	0	0	0	83	90	47	90	57	
		Max-w	-	-	-	0.1	0.5	-	-	-	N.D.	0.2	0.2	0.1	0.5	
		Min-w	-	-	-	N.D.	0.1	-	-	-	N.D.	N.D.	0.1	N.D.	N.D.	
	Terej	Mean	N.D.	N.D.	N.D.	N.D.	0.1	N.D.	N.D.	0.2	N.D.	N.D.	0.1	N.D.	0.1	
		%	100	100	100	100	89	85	100	100	100	100	100	100	96	
		Max-2w	N.D.	N.D.	0.1	N.D.	0.1	N.D.	N.D.	0.4	0.1	0.1	0.3	0.1	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.	
Philippines	Metro Manila	Mean	0.3	0.2	0.3	N.D.	0.5	0.3	0.1	-	0.3	N.D.	N.D.	N.D.	0.3	
		%	94	100	100	67	100	100	80	0	76	52	100	100	74	
		Max-w	0.3	0.2	0.8	-	0.9	0.3	0.3	-	0.4	0.1	N.D.	N.D.	N.D.	0.9
		Min-w	0.1	0.1	N.D.	-	N.D.	N.D.	N.D.	-	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
	Los Banos	Mean	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	N.D.	0.1	0.3	0.1	N.D.	N.D.	0.1	
		%	100	100	80	100	100	25	20	33	40	100	45	100	83	
		Max-w	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	-	0.6	0.4	0.2	N.D.	0.6	
		Min-w	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	
	Mt. Sto. Tomas	Mean	-	-	-	-	-	-	-	-	-	-	N.D.	N.D.	N.D.	0.0
		%	0	0	0	0	0	0	0	0	0	84	78	100	35	
		Max-w	-	-	-	-	-	-	-	-	-	-	N.D.	N.D.	N.D.	0.0
		Min-w	-	-	-	-	-	-	-	-	-	-	N.D.	N.D.	N.D.	N.D.

Table 4.4 HNO₃

Unit : ppb			2006												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Republic of Korea	Kanghwa	Mean	0.2	0.2	0.1	0.2	0.3	0.7	0.4	0.4	0.4	0.7	0.4	0.4	0.4	
		%	6	18	16	17	16	17	16	17	16	17	16	13	13	15
		Max-d	0.2	0.3	0.1	0.3	0.6	1.3	0.5	1.0	1.1	1.3	0.7	0.8	0.8	1.3
	Cheju	Min-d	0.2	N.D.	N.D.	N.D.	N.D.	0.4	0.2	N.D.	0.1	0.2	0.2	0.1	N.D.	
		Mean	0.3	0.5	0.8	0.8	0.5	0.9	0.1	0.2	0.1	0.9	0.7	0.5	0.5	
		%	10	14	16	17	19	13	16	16	17	16	17	16	16	
	Imsil	Max-d	0.9	1.2	1.8	1.6	1.0	2.8	0.2	0.4	0.2	1.3	1.4	1.7	2.8	
		Min-d	0.1	0.1	N.D.	0.4	N.D.	0.1	N.D.	N.D.	N.D.	0.1	N.D.	0.1	N.D.	
		Mean	-	0.2	0.4	0.4	2.1	0.9	0.1	0.5	0.4	0.2	0.5	0.1	0.6	
	Russia	Mondy	%	0	14	16	17	16	10	13	16	13	16	17	16	15
			Max-d	-	0.3	0.6	0.7	4.1	1.6	0.2	0.9	0.9	0.2	1.0	0.2	4.1
			Min-d	-	0.1	0.2	0.1	0.8	0.2	N.D.	0.2	0.2	0.1	0.2	N.D.	N.D.
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.	0.0
Listvianka		%	100	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.	N.D.	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.	N.D.
		Mean	N.D.	0.2	0.2	0.2	0.3	0.8	N.D.	N.D.	N.D.	0.1	0.2	N.D.	0.2	
Irkutsk		%	92	100	100	100	100	100	100	100	100	100	100	100	100	98
		Max*	0.2	0.4	0.2	0.2	0.5	2.5	0.1	N.D.	N.D.	0.2	0.5	0.2	2.5	
		Min*	N.D.	N.D.	N.D.	0.1	0.2	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
		Mean	N.D.	N.D.	N.D.	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	
Primorskaya	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-w	N.D.	N.D.	0.1	N.D.	0.2	0.2	0.1	N.D.	N.D.	N.D.	0.1	N.D.	0.2		
	Min-w	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		
	Mean	0.9	1.0	0.6	0.3	0.3	0.1	N.D.	N.D.	N.D.	0.4	0.8	1.0	0.5		
Thai Land	Bangkok	%	100	100	63	100	100	100	100	100	100	100	100	100	97	
		Max-10d	5.9	9.3	0.9	1.0	3.0	0.7	0.5	0.3	0.3	N.D.	2.3	4.0	9.3	
		Min-10d	N.D.	N.D.	0.5	0.3	0.2	0.5	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	
		Mean	0.3	0.5	0.7	0.2	0.2	0.1	0.1	0.2	0.3	N.D.	0.2	0.2	0.3	
	Patumthani	%	100	100	100	100	100	100	100	100	100	100	100	100	97	
		Max-10d	0.4	0.7	0.9	0.4	0.3	0.3	0.2	0.2	0.3	0.2	0.3	0	0.9	
		Min-10d	0.2	0.4	0.6	0.1	N.D.	N.D.	0.1	0.1	0.3	N.D.	0.1	0	N.D.	
		Mean	-	-	0.3	-	-	-	-	-	N.D.	-	-	-	0.2	
	Khanchanaburi (Vachiralongkorn Dam)	%	0	0	52	0	0	0	0	57	0	0	0	59	14	
		Max-2w	-	-	-	-	-	-	-	-	-	-	-	-	0.3	
		Min-2w	-	-	-	-	-	-	-	-	-	-	-	-	N.D.	
		Mean	N.D.	N.D.	N.D.	0.7	0.1	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	0.3	0.6	
Chiangmai (Mae Hia)	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-10d	N.D.	N.D.	0.2	0.9	0.4	0.3	N.D.	N.D.	0.1	0.1	0.4	0.9	0.9		
	Min-10d	N.D.	N.D.	N.D.	0.4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.4	N.D.		
	Mean	1.3	0.2	1.4	0.7	0.5	0.1	0.2	0.4	0.4	0.8	0.8	N.D.	0.6		
Nakhon Ratchasima	%	100	100	62	100	100	100	36	100	58	100	100	66	88		
	Max-10d	1.6	0.2	1.6	1.1	1.1	0.4	-	0.7	0.5	1.1	1.2	-	1.6		
	Min-10d	0.9	0.2	1.2	0.4	N.D.	N.D.	-	0.2	0.4	0.6	0.3	-	N.D.		
	Mean	0.5	0.8	0.6	1.3	1.8	1.2	0.7	0.4	0.7	0.5	1.4	0.5	0.9		
Viet Nam	Ha Noi	%	100	100	100	100	100	100	100	100	100	100	100	100		
		Max-w	0.8	1.1	0.9	2.1	2.9	2.5	1.1	0.6	1.8	0.9	2.8	0.6		
		Min-w	0.3	0.5	0.5	0.8	0.7	0.6	0.5	0.2	0.3	0.2	0.2	0.4		
		Mean	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.4	0.5		
	Hoa Binh	%	100	33	100	100	100	100	100	100	100	100	100	100		
		Max-w	0.4	-	0.4	0.4	0.4	0.5	0.3	0.2	0.4	0.5	0.6	0.8		
		Min-w	0.2	-	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.4		
		Mean	0.5	0.8	0.6	1.3	1.8	1.2	0.7	0.4	0.7	0.5	1.4	0.5		

Mean : monthly or annual arithmetic average value
 Max-d : maximum value of daily data
 Min-d : minimum value of daily data
 Max-10d : maximum value of 10-day interval data
 Min-10d : minimum value of 10-day interval data
 Max-w : maximum value of weekly data
 Min-w : minimum value of weekly data
 Max-2w : maximum value of biweekly data
 Min-2w : minimum value of biweekly data
 Max-* : maximum value of flexible interval data
 Min-* : minimum value of flexible interval data
 % : monthly or annual percentage of period of available data

Table 4.5 HCl

Unit : ppb			2006												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Republic of Korea	Kanghwa	Mean	0.1	N.D.	N.D.	N.D.	0.1	0.2	0.4	0.3	0.2	0.1	0.2	0.1	0.2	
		%	6	18	16	17	16	17	16	16	17	16	13	13	15	
		Max-d	0.2	0.2	0.1	N.D.	0.1	0.3	1.0	0.6	0.4	0.2	0.2	0.2	0.2	1.0
		Min-d	N.D.	N.D.	N.D.	N.D.	0.1	0.2	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Cheju	Mean	N.D.	0.1	0.2	0.3	0.2	0.3	0.2	N.D.	N.D.	0.2	0.3	0.1	0.2	
		%	10	14	16	17	19	13	16	16	17	16	17	16	16	
		Max-d	0.2	0.2	0.4	0.6	0.3	0.4	0.3	0.2	0.2	0.3	0.6	0.1	0.6	
		Min-d	N.D.	N.D.	N.D.	0.2	N.D.	0.2	N.D.	N.D.	N.D.	0.1	0.1	N.D.	N.D.	
	Imsil	Mean	-	0.2	0.3	0.3	0.3	0.2	0.1	0.2	0.2	0.7	0.2	0.1	0.3	
		%	0	14	16	17	16	10	13	16	13	16	17	16	15	
		Max-d	-	0.3	0.4	0.4	0.4	0.3	0.3	0.2	0.3	3.0	0.3	0.2	3.0	
		Min-d	-	0.2	0.3	0.2	0.2	0.1	N.D.	N.D.	0.2	N.D.	0.1	N.D.	N.D.	
Russia	Mondy	Mean	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.2	N.D.	N.D.	N.D.	N.D.	0.1		
		%	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	N.D.	N.D.	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.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Listvianka	Mean	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.2	
		%	92	100	100	100	100	100	100	100	100	100	100	100	98	
		Max*	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.4	0.4	0.4	
		Min*	N.D.	0.1	N.D.	0.1	0.1	N.D.	0.1	0.1	0.1	0.1	0.2	N.D.	N.D.	
	Irkutsk	Mean	N.D.	0.1	0.2	0.1	0.2	0.1	0.1	N.D.	0.1	0.1	0.2	0.2	0.1	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	
		Min-w	N.D.	N.D.	0.1	0.1	0.1	N.D.	0.1	N.D.	N.D.	0.1	0.1	0.1	N.D.	
	Primorskaya	Mean	0.1	0.1	0.2	0.3	0.5	0.4	0.2	0.2	0.2	0.2	0.3	0.1	0.2	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.2	0.2	0.2	0.3	0.5	0.4	0.2	0.2	0.2	0.2	0.5	0.2	0.5	
		Min-2w	N.D.	N.D.	0.2	0.2	0.5	0.4	0.2	0.2	0.1	0.2	0.1	0.1	N.D.	
Thai Land	Bangkok	Mean	1.2	3.5	1.0	0.5	0.7	0.7	1.3	1.4	1.7	2.1	2.7	2.4		
		%	100	100	63	100	100	100	100	100	100	100	100	100		
		Max-10d	2.3	6.9	1.7	0.7	1.0	0.8	2.6	1.8	2.1	2.4	4.0	5.5		
		Min-10d	N.D.	N.D.	N.D.	0.3	0.2	0.6	N.D.	1.1	1.4	1.9	0.8	N.D.		
	Patumthani	Mean	0.3	0.4	0.5	0.3	0.2	0.6	0.4	0.2	0.4	0.7	0.2	0.3		
		%	100	100	100	100	100	100	100	100	100	100	100	100		
		Max-10d	0.4	0.4	0.7	0.4	0.3	1.7	0.4	0.3	0.4	1.2	0.3	0		
		Min-10d	0.3	0.4	0.4	N.D.	N.D.	N.D.	0.3	0.1	0.3	0.5	0.1	0		
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	0.6	-	-	-	-	N.D.	-	-	-	0.2		
		%	0	0	52	0	0	0	0	57	0	0	0	59		
		Max-2w	-	-	-	-	-	-	-	-	-	-	-	0.6		
		Min-2w	-	-	-	-	-	-	-	-	-	-	-	N.D.		
	Chiangmai (Mae Hia)	Mean	N.D.	0.7	1.1	0.5	1.2	N.D.	1.0	0.2	0.1	0.1	0.2	0.2		
		%	100	100	100	100	100	100	100	100	100	100	100	100		
		Max-10d	N.D.	1.6	2.1	0.5	3.2	0.1	3.0	0.6	0.2	0.2	0.2	0.3		
		Min-10d	N.D.	0.2	0.4	0.4	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.2		
Nakhon Ratchasima	Mean	0.9	0.3	1.6	0.7	0.9	0.7	1.8	2.2	0.9	1.0	1.9	N.D.			
	%	100	100	62	100	100	100	36	100	58	100	100	66			
	Max-10d	1.3	0.4	1.7	0.7	1.0	0.8	-	3.1	1.0	1.2	2.2	-			
	Min-10d	0.5	0.2	1.4	0.6	0.8	0.6	-	1.3	0.8	0.6	1.5	-			
Viet Nam	Ha Noi	Mean	1.7	2.4	2.8	3.2	3.6	3.9	3.0	1.6	1.5	1.4	3.2			
		%	100	100	100	100	100	100	100	100	100	100	100			
		Max-w	2.9	3.0	4.0	3.7	4.5	6.4	4.3	1.8	3.3	1.8	5.2			
		Min-w	1.2	1.6	1.9	2.5	3.0	3.1	2.4	1.3	0.9	1.1	1.4			
	Hoa Binh	Mean	1.1	3.0	2.2	1.2	1.1	1.2	1.1	1.0	1.6	1.2	1.2			
		%	100	33	100	100	100	100	100	100	100	100	100			
		Max-w	1.4	-	3.1	2.2	1.7	1.6	1.5	1.0	1.9	1.5	1.6			
		Min-w	0.7	-	1.6	0.7	0.7	0.9	0.7	0.8	1.2	0.8	0.9			

Mean : monthly or annual arithmetic average value
 Max-d : maximum value of daily data
 Min-d : minimum value of daily data
 Max-10d : maximum value of 10-day interval data
 Min-10d : minimum value of 10-day interval data
 Max-w : maximum value of weekly data
 Min-w : minimum value of weekly data
 Max-2w : maximum value of biweekly data
 Min-2w : minimum value of biweekly data
 Max-* : maximum value of flexible interval data
 Min-* : minimum value of flexible interval data
 % : monthly or annual percentage of period of available data

Table 4.6 NH₃

Unit : ppb			2006												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Indonesia	Serpong	Mean	0.2	1.4	1.0	3.1	6.4	8.1	12.6	12.7	6.0	10.7	8.3	4.0	6.2	
		%	100	33	100	100	100	100	100	100	100	100	35	58	100	88
		Max-2w	0.2	-	1.1	5.2	8.0	9.8	14.1	14.4	7.5	-	-	-	7.8	14.4
		Min-2w	0.2	-	0.9	1.1	4.8	7.2	11.1	11.0	4.5	-	-	-	0.2	0.2
Japan	Rishiri	Mean	0.1	0.1	0.2	0.2	0.6	0.5	0.6	0.6	0.4	0.4	0.2	N.D.	0.4	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.1	0.2	0.3	0.3	0.9	0.5	0.7	0.7	0.5	0.5	0.5	0.2	N.D.	0.9
		Min-2w	N.D.	N.D.	N.D.	N.D.	0.4	0.5	0.6	0.5	0.4	0.4	0.4	0.1	N.D.	N.D.
	Tappi	Mean	-	-	0.2	0.2	0.4	0.3	0.3	0.5	0.4	0.4	0.3	N.D.	0.3	
		%	0	0	100	100	100	100	100	100	100	100	100	100	85	
		Max-2w	-	-	0.3	0.2	0.5	0.4	0.3	0.5	0.4	0.5	0.4	N.D.	0.5	
		Min-2w	-	-	0.1	0.1	0.1	0.2	0.3	0.5	0.4	0.3	0.1	N.D.	N.D.	
	Sado-seki	Mean	N.D.	0.2	0.4	0.7	1.3	0.8	0.6	0.7	0.5	0.6	0.2	0.1	0.6	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	N.D.	0.3	0.5	0.9	1.7	0.8	0.6	0.7	0.6	0.7	0.3	0.2	1.7	
		Min-2w	N.D.	0.1	0.3	0.4	1.1	0.8	0.5	0.6	0.5	0.4	0.2	N.D.	N.D.	
	Happo	Mean	0.2	0.2	0.6	0.9	0.6	0.9	0.5	0.6	0.3	0.3	0.2	0.2	0.4	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.2	0.2	0.7	1.2	0.6	1.1	0.6	0.9	0.4	0.3	0.2	0.2	1.2	
		Min-2w	0.1	0.2	0.5	0.5	0.6	0.6	0.5	0.4	0.3	0.2	0.2	0.2	0.1	
	Ijira	Mean	0.5	0.4	0.7	1.2	1.8	1.9	2.2	2.6	1.6	1.2	0.7	0.2	1.3	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.8	0.6	0.7	1.2	1.9	2.0	2.4	2.9	1.8	1.9	0.8	0.3	2.9	
		Min-2w	0.2	0.2	0.7	1.1	1.8	1.8	1.9	2.3	1.3	0.7	0.5	0.2	0.2	
	Okii	Mean	0.2	0.4	1.0	1.0	1.0	0.9	0.8	0.8	0.5	0.7	0.6	0.6	0.7	
		%	100	100	100	100	100	100	100	100	100	52	85	100	93	
		Max-2w	0.2	0.4	1.2	1.2	1.1	1.0	0.8	0.9	0.5	-	0.8	1.3	1.3	
		Min-2w	0.2	0.2	0.8	0.9	0.8	0.9	0.8	0.8	0.5	-	0.4	0.2	0.2	
Banryu	Mean	0.6	0.6	1.0	1.4	1.3	1.5	1.1	1.4	1.2	1.0	1.1	0.8	1.1		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	0.7	0.8	1.3	1.5	1.7	1.7	1.3	1.8	1.2	1.1	1.5	1.1	1.8		
	Min-2w	0.6	0.4	0.8	1.4	0.9	1.3	1.0	1.0	1.1	0.9	0.8	0.4	0.4		
Yusuhara	Mean	0.2	0.2	0.4	1.0	0.6	0.6	0.4	0.3	0.4	0.5	0.2	N.D.	0.4		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	0.2	0.2	0.5	1.0	0.9	0.8	0.5	0.3	0.5	0.5	0.4	0.1	1.0		
	Min-2w	0.2	0.2	0.2	1.0	0.2	0.4	0.4	0.3	0.3	0.5	N.D.	N.D.	N.D.		
Hedo	Mean	0.4	0.5	1.1	1.3	1.3	0.8	1.4	1.3	-	1.0	0.6	0.4	0.9		
	%	100	100	100	100	100	100	100	100	0	100	100	100	92		
	Max-2w	0.4	0.6	1.3	1.5	1.4	0.9	1.5	1.5	-	1.3	0.7	0.5	1.5		
	Min-2w	0.3	0.4	0.8	1.1	1.2	0.8	1.2	1.2	-	0.7	0.5	0.3	0.3		
Ogasawara	Mean	0.6	0.5	0.7	0.9	0.8	0.5	0.4	0.2	0.3	0.3	0.3	0.2	0.5		
	%	100	100	100	100	100	100	100	100	80	50	100	61	90		
	Max-w	0.9	0.7	1.2	1.3	1.2	1.2	0.6	0.4	0.6	0.3	0.5	0.2	1.3		
	Min-w	0.3	0.4	0.5	0.6	0.6	0.2	0.2	N.D.	N.D.	0.3	0.2	0.1	N.D.		
Malaysia	TanahRata	Mean	1.1	1.2	1.6	1.2	0.7	0.8	1.8	1.3	1.0	2.6	0.7	1.1	1.2	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max	1.6	1.7	2.4	2.9	0.9	1.2	2.8	1.7	1.5	3.7	1.1	1.3	3.7	
		Min	0.7	0.6	1.2	N.D.	0.5	0.4	1.2	0.6	0.8	0.9	0.4	0.7	N.D.	
	Petaling Jaya	Mean	7.7	11.7	13.5	12.0	12.4	11.3	21.0	22.5	24.1	30.8	-	-	16.9	
		%	100	100	100	100	100	100	100	100	100	100	0	0	83	
		Max-w	11.7	13.4	15.5	17.3	16.5	15.1	26.1	37.6	56.0	48.6	-	-	56.0	
		Min-w	1.3	9.4	9.3	1.5	10.1	8.8	13.0	15.1	1.8	0.9	-	-	0.9	
	Danum Valley	Mean	1.1	0.2	3.1	1.0	1.0	0.5	0.3	1.1	1.6	2.0	0.9	1.7	1.2	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	1.3	0.2	4.6	1.2	1.3	0.6	0.3	1.2	1.7	3.6	1.1	2.0	4.6	
		Min-w	0.9	0.2	1.7	0.7	0.6	0.4	0.2	0.9	1.5	0.9	0.8	1.4	0.2	
Mongolia	Ulaanbaatar	Mean	-	-	-	8.5	11.6	-	-	-	9.5	11.8	13.0	8.4	10.3	
		%	0	0	0	100	45	0	0	0	83	90	47	90	57	
		Max-w	-	-	-	12.2	13.9	-	-	-	14.3	13.2	13.6	8.7	14.3	
		Min-w	-	-	-	5.9	9.3	-	-	-	N.D.	10.0	12.3	8.0	N.D.	
	Terelj	Mean	0.7	0.9	0.4	0.6	0.7	3.7	5.8	3.5	1.8	1.0	0.9	0.6	1.6	
		%	100	100	100	100	89	85	100	100	100	100	100	100	96	
		Max-2w	0.8	1.1	0.5	0.7	0.9	5.4	6.2	3.8	3.0	1.2	1.0	0.8	6.2	
		Min-2w	0.5	0.8	0.4	0.6	0.6	1.9	5.4	3.2	0.5	0.8	0.8	0.4	0.4	
Philippines	Metro Manila	Mean	2.3	3.4	3.9	2.6	5.1	3.5	2.8	-	4.3	6.1	N.D.	N.D.	3.8	
		%	94	100	100	67	100	100	80	0	76	52	100	100	74	
		Max-w	3.8	3.6	5.2	-	7.9	5.1	3.5	-	4.9	6.4	N.D.	N.D.	7.9	
		Min-w	0.8	3.1	3.1	-	3.4	1.4	1.8	-	3.6	5.7	N.D.	N.D.	N.D.	
	Los Banos	Mean	1.1	1.2	1.4	1.8	1.2	3.3	2.2	2.2	2.1	3.7	1.6	3.7	2.0	
		%	100	100	80	100	100	25	20	33	40	100	45	100	83	
		Max-w	1.7	1.4	1.8	2.5	1.6	-	-	-	3.4	6.4	2.5	4.2	6.4	
		Min-w	0.8	1.1	1.1	1.5	0.5	-	-	-	0.8	2.1	0.6	3.3	0.5	
	Mt. Sto. Tomas	Mean	-	-	-	-	-	-	-	-	-	0.2	0.2	0.2	0.2	
		%	0	0	0	0	0	0	0	0	0	84	78	100	35	
		Max-w	-	-	-	-	-	-	-	-	-	0.4	0.3	0.3	0.4	
		Min-w	-	-	-	-	-	-	-	-	-	N.D.	N.D.	N.D.	N.D.	

Table 4.6 NH₃

Unit : ppb			2006												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Republic of Korea	Kanghwa	Mean	4.1	3.2	3.0	6.1	7.6	4.8	7.0	7.4	4.5	3.5	2.5	2.2	4.8
		%	6	18	16	17	16	17	16	16	17	16	13	13	15
		Max-d	5.5	3.8	3.6	9.5	14.6	6.9	10.0	11.6	6.2	5.2	4.1	3.3	14.6
	Imsil	Min-d	2.8	2.2	2.0	4.6	3.5	1.8	3.7	3.4	0.7	1.6	0.6	0.7	0.6
		Mean	-	3	3	5.2	9	15	9	8.2	4	3	2.7	2.3	5.9
		%	0	14	16	17	16	17	13	16	13	16	17	16	15
Russia	Mondy	Max-d	-	5	5	14.7	11	25	18	10.4	9	5	4.8	3.8	24.9
		Min-d	-	1	1	1.0	5	6	1	4.7	4	1	0.7	1.4	0.7
		Mean	1.5	1.0	1.6	3.0	2.9	2.7	1.3	6.1	0.2	0.9	0.6	1.1	1.9
	Listvianka	%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	2.4	1.7	2.4	4.2	3.4	3.3	1.8	6.4	0.4	0.9	0.7	1.5	6.4
		Min-2w	0.6	0.3	0.8	1.8	2.5	2.0	0.8	5.7	N.D.	0.9	0.6	0.6	N.D.
Irkutsk	Mean	1.9	6.1	3.4	3.4	8.7	7.9	5.1	10.8	4.2	1.9	1.6	0.7	4.4	
	%	92	100	100	100	100	100	100	100	100	100	100	100	98	
	Max*	3.9	11.7	5.7	3.9	12.8	11.2	8.3	15.3	9.0	2.4	3.1	1.8	15.3	
Primorskaya	Min*	0.6	3.2	1.1	2.8	5.4	0.8	0.7	6.3	2.1	1.6	0.3	N.D.	N.D.	
	Mean	2.5	2.5	2.9	2.1	5.6	6.5	4.5	3.9	4.8	4.5	2.7	2.6	3.7	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
Thai Land	Bangkok	Max-w	4.0	3.3	3.9	2.5	7.0	7.2	6.7	4.5	7.2	5.6	4.2	5.4	7.2
		Min-w	0.5	1.7	1.8	1.3	4.1	5.7	3.2	3.2	3.6	3.1	0.2	0.2	0.2
		Mean	0.3	0.5	1.0	1.8	2.5	2.5	5.3	5.5	4.5	1.5	3.2	3.3	2.7
Patumthani	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-10d	26.4	84.6	10.1	7.6	9.8	10.6	9.9	9.2	8.8	10.8	12.6	25	85	
	Min-10d	N.D.	N.D.	8.6	3.3	3.2	0.7	0.1	8.2	7.2	5.5	8.9	1	N.D.	
Khanchanaburi (Vachiralongkorn Dam)	Mean	2.8	3.8	3.4	2.6	2.5	1.9	1.8	2.8	3.2	3.3	3.2	2.5	2.8	
	%	100	100	100	100	100	100	100	100	100	100	100	100	97	
	Max-10d	2.8	3.9	3.8	4.2	2.9	2.5	2.0	4.0	3.7	4.8	5.0	3	5	
Chiangmai (Mae Hia)	Min-10d	2.7	3.7	3.0	0.3	2.1	1.1	1.7	2.3	2.8	2.0	1.8	2	0	
	Mean	-	-	2.4	-	-	-	-	1.2	-	-	-	2.6	2.1	
	%	0	0	52	0	0	0	0	57	0	0	0	59	14	
Nakhon Ratchasima	Max-2w	-	-	-	-	-	-	-	-	-	-	-	-	2.6	
	Min-2w	-	-	-	-	-	-	-	-	-	-	-	-	1.2	
	Mean	N.D.	2.0	10.8	8.0	2.7	1.8	N.D.	0.9	1.8	3.2	3.6	3.4	3.2	
Viet Nam	Ha Noi	%	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-10d	N.D.	6.0	12.2	9.2	4.1	3.2	N.D.	2.7	2.4	5.5	4.9	6.4	12.2
		Min-10d	N.D.	N.D.	8.1	6.1	N.D.	N.D.	N.D.	1.4	1.5	2.8	0.9	N.D.	
Hoa Binh	Mean	19.3	9.6	7.7	7.6	6.7	4.5	8.3	6.4	5.5	6.2	0.9	N.D.	7.0	
	%	100	100	62	100	100	100	36	100	58	100	100	66	88	
	Max-10d	27.7	14.2	8.0	8.4	11.0	7.5	-	10.4	5.8	6.6	1.9	-	27.7	
Ha Noi	Min-10d	10.9	5.0	7.4	6.7	N.D.	N.D.	-	1.8	5.2	5.8	0.4	-	N.D.	
	Mean	4.0	7.7	2.2	2.4	2.4	3.0	2.0	0.9	2.1	2.4	2.2	3.0	2.8	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
Hoa Binh	Max-w	7.8	17.7	2.8	2.7	2.8	4.7	2.8	1.0	2.6	3.3	2.6	4.6	17.7	
	Min-w	1.2	2.7	1.9	1.9	2.0	1.3	1.2	0.8	1.6	1.9	1.9	2.1	0.8	
	Mean	4.4	2.4	1.8	2.2	1.5	2.8	3.2	2.8	2.4	2.5	3.1	2.3	2.7	
Ha Noi	%	100	33	100	100	100	100	100	100	100	100	100	100	96	
	Max-w	6.7	-	2.0	3.7	1.8	3.3	3.3	3.0	2.6	3.0	3.5	2.6	6.7	
	Min-w	3.1	-	1.5	0.9	1.0	2.3	3.0	2.4	2.0	1.9	2.5	2.0	0.9	

Mean : monthly or annual arithmetic average value

Max-d : maximum value of daily data

Min-d : minimum value of daily data

Max-10d : maximum value of 10-day interval data

Min-10d : minimum value of 10-day interval data

Max-w : maximum value of weekly data

Min-w : minimum value of weekly data

Max-2w : maximum value of biweekly data

Min-2w : minimum value of biweekly data

Max-* : maximum value of flexible interval data

Min-* : minimum value of flexible interval data

% : monthly or annual percentage of period of available data

Table 4.7 NO

Unit : ppb		2006														Annual
Country	Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
China	Jinyunshan	Mean	2.6	2.4	3.6	9.1	12.0	0.2	N.D.	0.3	0.5	0.3	N.D.	N.D.	2.6	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-d	6.8	3.1	7.3	29.1	124.8	1.6	1.0	1.0	2.1	2.1	N.D.	N.D.	N.D.	124.8
	Weishuiyuan	Min-d	1.0	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.
		Mean	18.6	13.7	13.5	9.7	5.9	9.8	8.1	7.6	5.2	5.8	7.2	12.4	9.8	
		%	100	100	100	100	100	100	100	97	100	100	100	97	99	
Japan	Rishiri	Max-d	43.2	32.2	23.9	14.6	14.0	16.1	14.0	14.0	10.4	14.0	12.0	19.8	43.2	
		Min-d	6.8	4.7	4.2	6.2	2.1	4.2	4.2	5.2	1.0	2.1	4.7	6.8	1.0	
		Mean	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tappi	%	97	95	98	98	98	98	98	98	98	83	98	98	96	
		Max-d	0.1	0.3	0.4	0.2	0.4	0.7	0.3	0.2	0.3	0.2	N.D.	0.2	0.7	
		Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
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.		
	%	86	98	98	97	97	1	89	90	97	98	97	98	87		
	Max-d	0.1	0.3	0.2	0.2	0.2	-	0.1	N.D.	N.D.	N.D.	0.1	N.D.	0.3		
Happo	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.		
	Mean	0.1	0.6	0.1	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	N.D.		
	%	89	7	40	98	75	80	98	83	57	92	98	98	77		
Ijira	Max-d	0.4	0.8	0.4	0.3	0.4	0.2	0.2	0.1	0.2	0.2	0.2	0.4	0.8		
	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.		
	Mean	0.2	0.2	0.2	N.D.	0.1	0.2	0.8	1.0	0.4	0.2	0.2	0.2	0.3		
Okii	%	98	99	99	98	99	98	99	88	98	99	90	98	97		
	Max-d	0.4	0.7	1.1	0.9	0.8	1.2	4.5	4.2	1.6	0.5	0.4	0.9	4.5		
	Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	0.2	N.D.	N.D.	N.D.	N.D.	N.D.		
Banryu	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.		
	%	19	0	57	97	95	98	93	36	65	96	97	73	69		
	Max-d	N.D.	-	0.1	0.2	0.1	0.2	0.3	N.D.	0.1	0.1	0.2	0.3	0.3		
Yusuhara	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.		
	Mean	0.2	-	-	-	-	-	-	0.3	0.3	0.3	0.1	0.2	0.3		
	%	19	0	0	0	0	0	0	86	94	96	98	97	41		
Hedo	Max-d	0.3	-	-	-	-	-	-	0.7	0.8	0.8	0.3	1.0	1.0		
	Min-d	N.D.	-	-	-	-	-	-	0.2	N.D.	N.D.	N.D.	N.D.	N.D.		
	Mean	0.3	0.3	0.3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	0.2	N.D.		
Ogasawara	%	99	99	99	98	99	99	99	99	98	89	98	99	98		
	Max-d	0.5	0.5	0.5	0.1	N.D.	N.D.	0.1	0.1	N.D.	0.2	0.3	0.4	0.5		
	Min-d	0.2	0.2	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		
Thai Land	Bangkok	Mean	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.2	0.1	N.D.	N.D.	0.1	N.D.		
		%	79	98	98	98	59	72	97	36	92	97	97	85		
		Max-d	0.1	0.5	N.D.	N.D.	0.2	0.3	0.3	0.2	0.1	0.2	0.7	0.9	0.9	
	Samutprakarn	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.	
		Mean	17.4	13.3	3.3	4.9	13.3	23.2	19.6	22.0	18.8	18.0	18.0	23.5	16.4	
		%	100	100	100	97	97	100	100	100	100	100	100	100	99	
Khanchanaburi (Vachiralongkorn Dam)	Max-d	66.6	50.5	11.9	19.2	38.4	56.3	42.7	55.0	35.1	39.8	50.8	57.9	66.6		
	Min-d	4.9	2.3	1.5	1.0	2.7	7.4	5.2	11.0	5.1	3.0	2.7	2.5	1.0		
	Mean	-	-	N.D.	1.7	-	-	-	0.7	0.3	-	1.2	0.2	0.6		
Chiangmai (Mae Hia)	%	0	0	39	7	0	0	0	6	3	0	3	42	8		
	Max-d	-	-	2.6	1.8	-	-	-	1.3	-	-	-	1.1	2.6		
	Min-d	-	-	N.D.	1.6	-	-	-	0.2	-	-	-	N.D.	N.D.		
Bangkok	Mean	4.4	1.4	1.2	1.2	0.8	1.0	2.2	3.2	1.9	2.6	3.8	4.0	2.5		
	%	100	71	74	67	74	97	100	94	90	97	97	100	88		
	Max-d	11.8	2.9	5.6	2.0	1.6	1.8	5.1	6.4	3.6	5.0	6.4	7.0	11.8		
	Min-d	1.7	0.4	0.6	0.3	0.1	0.4	0.5	1.2	0.4	1.5	1.7	1.0	0.1		

Mean : monthly or annual arithmetic average value

Max-d : maximum value of daily data

Min-d : minimum value of daily data

% : monthly or annual percentage of period of available data

Table 4.8 NO₂

Unit : ppb			2006												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
China	Hongwen	Mean	26.7	24.1	34.3	32.1	23.3	18.6	14.6	21.8	21.9	17.1	28.2	26.6	23.8	
		%	100	96	100	100	100	100	100	100	100	100	100	100	100	100
		Max-d	53.0	45.8	55.6	80.1	53.0	39.0	30.2	39.0	39.0	29.1	43.7	38.0	80.1	
	Xiang Zhou	Min-d	14.6	8.3	13.5	9.4	9.9	4.7	3.6	12.0	10.9	10.4	14.6	12.5	3.6	
		Mean	35.1	33.7	30.7	19.2	17.0	10.5	10.1	10.2	16.4	19.0	22.0	22.9	20.7	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
Japan	Banryu	Max-d	59.3	52.5	55.1	34.8	31.2	18.2	15.1	17.2	30.2	29.1	45.8	34.8	59.3	
		Min-d	19.8	18.2	21.3	12.0	9.9	6.8	6.8	6.2	7.3	10.4	12.0	14.6	6.2	
		Mean	3.2	-	-	-	-	-	-	-	2.6	2.9	2.8	1.7	2.3	2.5
Thai Land	Bangkok	%	19	0	0	0	0	0	0	86	94	96	98	97	41	
		Max-d	4.1	-	-	-	-	-	-	-	4.8	4.7	4.9	2.9	5.1	5.1
		Min-d	2.2	-	-	-	-	-	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Samutprakarn	Mean	32.9	28.3	17.4	20.3	23.5	18.9	15.7	16.1	18.7	26.2	31.6	36.1	23.6	
		%	100	93	97	100	100	100	100	100	100	100	100	100	71	97
		Max-d	59.1	44.2	37.0	40.7	39.5	33.0	19.8	23.5	30.1	46.9	54.2	51.3	59.1	
		Min-d	N.D.	15.5	10.7	10.6	16.6	12.3	10.5	10.3	9.1	13.4	16.6	21.7	N.D.	
		Mean	26.0	18.6	8.4	11.7	18.3	17.9	15.3	16.1	16.9	21.6	26.1	32.4	19.3	
		%	100	100	100	100	97	100	100	100	100	100	100	100	100	
		Max-d	47.3	35.7	30.7	26.5	34.5	27.4	23.2	21.3	25.5	37.5	50.4	52.7	52.7	
		Min-d	12.3	4.9	4.0	3.0	5.7	10.7	7.4	10.4	9.5	6.0	8.6	17.7	3.0	

Mean : monthly or annual arithmetic average value

Max-d : maximum value of daily data

Min-d : minimum value of daily data

% : monthly or annual percentage of period of available data

Table 4.9 NOx

Unit : ppb		2006													Annual	
Country	Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
China	Jinyunshan	Mean	10.6	5.9	4.7	14.5	20.0	5.7	5.8	8.4	7.8	5.8	4.9	8.7	8.7	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-d	19.8	10.9	10.4	32.8	129.5	14.6	15.1	13.5	19.8	12.5	10.9	19.2	129.5	
	Weishuiyuan	Min-d	6.2	2.6	2.6	1.0	2.6	1.0	1.6	2.1	3.6	1.6	1.6	2.1	1.0	
		Mean	48.3	36.3	36.4	28.0	18.7	27.0	24.3	22.6	14.0	16.1	17.6	31.6	26.8	
		%	100	100	100	100	100	100	100	97	100	100	100	100	100	
	Max-d	85.8	62.4	66.6	39.0	38.5	42.6	33.3	34.3	29.6	36.4	25.5	55.6	85.8		
	Min-d	18.7	15.6	15.1	19.2	12.0	14.6	16.1	14.0	4.7	8.3	13.5	19.2	4.7		
Japan	Rishiri (NOx*)	Mean	0.8	1.2	1.2	0.9	1.3	1.4	0.8	0.7	0.6	0.9	1.0	1.0	1.0	
		%	97	95	98	98	98	98	98	98	98	98	83	98	98	96
		Max-d	1.5	3.5	2.7	1.9	3.8	4.5	2.0	1.7	1.1	1.6	2.0	2.6	4.5	
	Tappi (NOx*)	Min-d	0.2	0.4	0.4	0.4	0.5	0.1	0.3	0.3	0.4	0.5	0.4	0.4	0.1	
		Mean	0.9	1.0	1.1	1.5	-	2.2	1.6	0.3	-	1.1	1.1	0.9	1.2	
		%	91	99	97	86	0	74	99	1	0	66	98	99	67	
	Sado-seki (NOx*)	Max-d	3.4	3.1	2.9	7.5	-	5.2	7.6	0.3	-	2.0	2.4	2.0	7.6	
		Min-d	0.3	0.1	0.1	0.4	-	0.8	0.5	0.3	-	0.2	0.3	0.2	0.1	
		Mean	1.1	1.6	2.1	2.0	1.3	0.4	0.7	1.0	0.7	1.0	1.4	1.3	1.3	
	Happo (NOx*)	%	86	98	98	97	97	1	89	90	97	98	97	98	87	
		Max-d	1.8	4.2	5.2	4.6	2.9	-	2.2	2.0	2.3	2.3	2.8	2.3	5.2	
		Min-d	0.6	0.6	0.7	0.7	0.3	-	N.D.	0.2	0.3	0.3	0.6	0.7	N.D.	
	Ijira (NOx*)	Mean	1.5	2.9	2.7	1.8	2.1	3.0	1.3	2.3	2.1	1.6	1.6	1.7	1.9	
		%	89	7	40	98	75	80	98	83	57	91	98	98	77	
		Max-d	2.7	4.0	4.1	2.9	6.0	5.0	2.6	3.9	4.7	3.5	3.4	3.5	6.0	
	Oki (NOx*)	Min-d	0.9	1.6	1.2	0.3	0.8	1.8	0.3	1.0	N.D.	0.3	0.4	0.6	N.D.	
		Mean	1.6	2.2	2.6	3.0	3.5	4.8	4.0	6.7	3.0	2.4	2.7	1.3	3.1	
		%	98	99	99	98	99	98	99	88	98	99	90	98	97	
	Banryu	Max-d	4.1	5.6	5.1	8.2	10.0	9.7	8.7	10.3	9.1	4.9	5.4	3.7	10.3	
		Min-d	0.7	0.6	0.9	1.0	1.3	1.0	1.6	2.2	0.6	0.6	0.8	0.4	0.4	
		Mean	1.2	-	2.2	2.3	1.7	1.3	0.7	1.0	0.7	1.2	1.7	1.9	1.5	
	Yusuhara (NOx*)	%	19	0	57	97	95	75	66	36	64	55	97	73	61	
		Max-d	2.2	-	3.3	4.1	3.5	2.5	1.7	1.8	1.7	2.4	5.1	4.1	5.1	
		Min-d	0.6	-	1.1	0.5	0.6	0.4	N.D.	0.6	0.1	0.4	0.5	0.7	N.D.	
Hedo (NOx*)	Mean	3.4	-	-	-	-	-	-	3.0	3.2	3.1	1.9	2.5	2.8		
	%	19	0	0	0	0	0	0	86	94	96	98	97	41		
	Max-d	4.2	-	-	-	-	-	-	5.2	4.9	5.4	3.3	5.8	5.8		
Ogasawara (NOx*)	Min-d	2.3	-	-	-	-	-	-	1.1	0.9	0.4	0.6	0.4	0.4		
	Mean	2.5	2.4	2.5	1.8	1.0	0.9	0.4	0.7	0.9	1.2	1.7	1.9	1.5		
	%	99	99	99	98	99	99	99	99	98	89	98	99	98		
Chiangmai (Mae Hia) (NOx*)	Max-d	4.6	4.8	4.7	3.1	2.3	3.0	1.1	2.6	2.3	2.5	2.9	3.6	4.8		
	Min-d	1.1	1.1	0.9	0.6	0.1	N.D.	N.D.	N.D.	N.D.	0.6	0.7	0.8	N.D.		
	Mean	0.7	0.8	0.9	0.8	0.7	0.7	0.7	0.5	0.5	0.7	1.1	1.0	0.8		
Bangkok	%	79	98	98	98	58	72	97	36	92	97	97	97	85		
	Max-d	1.4	1.9	2.5	1.6	1.3	1.8	1.6	0.7	1.2	1.2	2.5	3.1	3.1		
	Min-d	0.2	0.2	0.4	0.3	0.4	0.1	0.3	0.3	0.1	0.4	0.4	0.5	0.1		
Samutprakarn (NOx*)	Mean	1.1	0.7	0.9	0.6	0.1	0.4	0.2	N.D.	0.3	1.3	0.4	0.8	0.5		
	%	97	97	97	97	97	97	97	94	97	86	32	97	90		
	Max-d	2.7	2.4	3.7	2.6	1.0	4.0	1.5	0.6	4.2	2.5	1.0	2.7	4.2		
Khanchanaburi (Vachiralongkorn Dam) (NOx*)	Min-d	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	N.D.	N.D.	N.D.		
	Mean	46.1	35.2	19.6	25.3	33.6	31.5	27.0	26.8	32.8	42.6	46.4	50.3	34.6		
	%	100	93	97	100	100	100	100	100	100	100	100	100	97		
Chiangmai (Mae Hia) (NOx*)	Max-d	96.0	61.8	40.2	56.4	68.9	58.2	47.3	52.2	59.8	72.4	108.1	82.2	108.1		
	Min-d	0.3	18.0	11.5	12.0	18.0	16.5	12.3	12.7	12.7	17.3	22.2	22.7	0.3		
	Mean	43.3	31.8	11.7	16.5	31.6	41.1	34.9	38.1	35.7	39.6	44.1	55.9	35.6		
Khanaburi (Vachiralongkorn Dam) (NOx*)	%	100	100	100	100	97	100	100	100	100	100	100	100	100		
	Max-d	113.8	86.2	42.8	41.9	68.1	75.6	65.7	75.8	57.0	64.4	91.4	108.9	113.8		
	Min-d	17.0	7.3	6.9	4.1	9.8	18.0	12.6	21.6	17.7	9.0	14.9	20.2	4.1		
Chiangmai (Mae Hia) (NOx*)	Mean	-	-	3.7	1.8	-	-	-	1.9	-	-	-	1.9	2.8		
	%	0	0	42	7	0	0	0	29	0	0	0	48	11		
	Max-d	-	-	15.1	1.9	-	-	-	5.7	-	-	-	2.7	15.1		
Chiangmai (Mae Hia) (NOx*)	Min-d	-	-	0.8	1.7	-	-	-	0.4	-	-	-	0.5	0.4		
	Mean	17.1	11.5	12.2	7.8	8.0	6.1	7.0	9.1	7.3	7.3	14.3	16.6	10.4		
	%	100	75	100	97	97	97	100	100	90	100	97	100	96		
Chiangmai (Mae Hia) (NOx*)	Max-d	27.2	24.3	25.8	16.3	12.2	12.2	14.0	13.3	9.9	13.2	18.2	27.4	27.4		
	Min-d	11.1	2.1	6.3	1.3	5.0	1.5	2.1	4.9	4.1	3.6	10.0	4.0	1.3		

Mean : monthly or annual arithmetic average value

Max-d : maximum value of daily data

Min-d : minimum value of daily data

% : monthly or annual percentage of period of available data

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

Table 4.10 O₃

Unit : ppb			2006												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Japan	Rishiri	Mean	43	49	54	56	60	36	32	30	38	41	40	40	43	
		%	97	95	98	98	98	98	98	98	98	98	83	98	98	96
		Max-d	48	65	64	70	93	48	44	44	54	52	51	45	93	
		Min-d	36	42	47	44	35	27	19	17	24	32	33	35	17	
	Tappi	Mean	49	54	61	63	66	50	42	38	42	50	51	48	51	
		%	81	99	98	98	99	92	98	99	99	99	64	98	99	94
		Max-d	56	64	70	83	94	75	65	57	61	65	62	57	94	
		Min-d	42	45	52	40	47	39	27	18	12	43	44	39	12	
	Sado-seki	Mean	43	47	55	59	61	54	40	42	43	48	45	41	48	
		%	86	98	98	97	97	97	89	97	97	97	97	97	98	96
		Max-d	50	52	70	75	83	67	55	59	59	57	62	46	83	
		Min-d	37	40	46	50	49	35	19	21	34	38	39	34	19	
	Happo	Mean	52	60	64	70	76	81	46	49	48	55	54	52	59	
		%	89	99	99	98	95	80	98	86	88	96	98	98	94	
		Max-d	68	73	80	92	102	125	68	77	86	70	61	58	125	
		Min-d	37	43	45	57	49	50	23	27	32	46	44	39	23	
	Ijira	Mean	24	17	14	26	19	17	4	10	15	19	28	10	17	
		%	98	99	98	98	80	80	99	65	99	98	66	99	90	
		Max-d	31	31	26	37	40	35	16	19	31	34	56	23	56	
		Min-d	14	6	2	13	4	5	1	3	5	8	11	2	1	
	Oki	Mean	40	43	50	55	55	52	34	34	40	46	41	39	44	
		%	96	96	97	97	96	98	93	93	93	96	97	73	94	
		Max-d	53	48	57	70	75	80	51	56	48	64	60	47	80	
		Min-d	34	38	42	46	31	24	14	20	29	35	29	34	14	
	Banryu	Mean	29	35	43	49	47	40	24	26	29	33	31	26	34	
		%	97	97	96	99	91	96	98	94	94	96	98	97	96	
		Max-d	40	44	54	60	63	58	48	46	46	47	48	41	63	
		Min-d	16	23	26	30	25	13	9	15	14	22	11	12	9	
	Yusuhara	Mean	51	52	66	67	46	36	19	24	32	37	34	36	42	
		%	99	99	99	95	99	99	99	99	99	92	99	99	98	
		Max-d	71	62	90	80	67	58	31	35	49	56	44	44	90	
		Min-d	36	38	42	40	22	8	8	11	15	18	16	27	8	
	Hedo	Mean	44	47	57	58	44	26	14	19	38	45	46	44	40	
		%	82	99	99	99	99	99	99	99	99	99	99	99	98	
		Max-d	56	58	86	72	81	64	26	41	54	65	61	50	86	
		Min-d	29	36	42	41	12	8	9	8	10	16	31	39	8	
	Ogasawara	Mean	41	40	46	47	33	12	14	16	14	26	34	37	31	
		%	94	98	98	98	98	99	71	99	88	38	98	97	90	
		Max-d	52	48	57	61	61	34	32	39	31	44	46	45	61	
		Min-d	29	25	28	25	8	4	5	7	8	14	17	21	4	
	Republic of Korea	Kanghwa	Mean	21	22	20	25	29	41	24	23	33	31	28	21	27
			%	96	99	99	97	98	96	98	95	95	99	99	99	97
			Max-d	41	34	43	57	50	96	86	59	88	61	62	40	96
			Min-d	12	13	13	16	22	40	2	17	32	22	27	6	2
		Cheju	Mean	32	37	43	44	48	36	23	24	36	34	35	25	35
			%	100	98	97	100	97	100	100	100	100	100	56	89	95
			Max-d	59	59	74	71	79	78	71	53	69	55	62	39	79
			Min-d	22	36	42	32	37	15	14	10	31	27	33	26	10
		Imsil	Mean	23	30	42	44	49	35	16	21	25	28	22	20	30
			%	100	100	100	100	99	97	98	99	99	99	99	100	99
Max-d			55	51	77	82	99	76	44	62	65	70	61	44	99	
Min-d			12	23	43	40	34	24	14	16	24	21	18	20	12	
Russia	Mondy	Mean	40	43	48	51	54	43	49	43	38	36	-	-	45	
		%	100	100	100	100	81	100	39	58	100	71	0	0	70	
		Max-d	45	48	53	56	80	51	56	48	44	42	-	-	80	
		Min-d	32	39	36	46	39	34	45	38	31	25	-	-	25	
Thai Land	Samutprakarn	Mean	21	21	19	12	17	10	7	7	10	13	15	14	14	
		%	100	100	100	100	94	100	97	100	90	97	100	94	98	
		Max-d	38	38	33	19	39	20	10	10	21	26	28	23	39	
		Min-d	11	6	3	5	4	4	4	4	6	6	8	10	3	
	Khanchanaburi (Vachiralongkom Dam)	Mean	-	-	16	15	-	-	-	3	4	-	-	10	10	
		%	0	0	45	10	0	0	0	45	10	0	0	48	13	
		Max-d	-	-	26	18	-	-	-	6	5	-	-	16	26	
		Min-d	-	-	6	10	-	-	-	1	4	-	-	6	1	
	Chiangmai (Mae Hia)	Mean	20	27	30	25	18	14	12	12	12	14	17	22	19	
		%	100	100	100	97	100	97	100	100	100	100	97	100	99	
		Max-d	30	38	43	41	25	21	16	19	17	22	24	32	43	
		Min-d	13	18	18	14	9	6	6	7	7	11	10	14	6	

Mean : monthly or annual arithmetic average value

Max-d : maximum value of daily data

Min-d : minimum value of daily data

% : monthly or annual percentage of period of available data

Table 4.11 PM₁₀

Unit : $\mu\text{g}/\text{m}^3$			2006												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
China	Jinyunshan	Mean	84	64	98	89	77	73	66	87	54	72	72	96	78	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-d	188	181	205	187	134	132	117	151	107	147	172	197	205	
		Min-d	11	8	12	18	13	22	20	43	17	23	14	23	8	
	Weishuiyuan	Mean	235	135	125	115	84	85	95	96	96	121	89	159	121	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-d	525	256	226	586	180	154	154	171	180	225	158	348	586	
		Min-d	63	34	63	53	37	54	68	54	34	56	36	53	34	
	Hongwen	Mean	83	74	120	126	83	57	65	97	106	135	116	78	97	
		%	100	96	100	100	100	100	100	100	100	100	100	100	100	
		Max-d	175	135	254	331	183	131	128	150	150	220	181	132	331	
		Min-d	39	24	43	16	26	19	21	41	30	81	47	12	12	
	Xiang Zhou	Mean	54	50	43	35	32	25	31	36	50	61	67	68	47	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-d	138	85	120	68	75	40	56	66	80	99	106	100	138	
		Min-d	27	32	17	19	15	13	15	18	33	41	42	45	13	
Japan	Rishiri	Mean	11	21	18	15	21	9	12	14	12	17	17	13	15	
		%	86	85	88	88	71	88	88	87	88	73	88	88	85	
		Max-d	41	69	42	35	68	21	29	43	24	39	40	35	69	
		Min-d	4	5	5	4	3	4	5	5	3	4	4	3	3	
	Tappi	Mean	14	24	26	24	22	13	11	15	13	18	19	16	18	
		%	92	100	100	99	100	100	100	100	100	100	99	100	99	
		Max-d	32	61	54	84	44	32	22	27	26	40	41	48	84	
		Min-d	5	11	8	7	5	4	3	8	8	8	9	7	3	
	Sado-seki	Mean	19	26	34	49	28	23	12	19	15	21	21	22	24	
		%	90	99	100	100	100	100	91	96	97	100	93	99	97	
		Max-d	32	76	69	255	76	56	25	31	45	50	43	58	255	
		Min-d	5	7	6	8	8	4	4	7	5	6	8	8	4	
	Happo	Mean	6	4	18	31	16	22	5	15	8	10	7	4	13	
		%	91	33	70	93	97	100	100	87	100	100	100	93	89	
		Max-d	17	6	45	171	65	51	17	34	18	31	25	16	171	
		Min-d	N.D.	2	N.D.	2	2	2	N.D.	4	1	N.D.	N.D.	N.D.	1	
	Ijira	Mean	11	15	23	39	21	33	18	27	20	21	17	13	22	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-d	30	37	59	234	57	65	32	46	28	47	47	34	234	
		Min-d	5	5	7	6	8	12	6	13	7	5	6	4	4	
	Oki	Mean	27	30	46	62	27	30	14	23	17	30	27	28	30	
		%	100	100	100	100	99	100	100	99	96	96	78	98	97	
		Max-d	90	76	98	358	70	67	29	44	40	68	63	58	358	
		Min-d	8	7	7	10	5	13	4	11	7	11	6	8	4	
	Banryu	Mean	25	29	48	64	30	32	16	25	23	32	24	25	31	
		%	100	100	100	100	100	99	100	100	99	100	99	99	100	
		Max-d	74	71	191	407	68	61	34	40	37	69	44	58	407	
		Min-d	10	12	11	6	8	8	7	12	11	11	8	11	6	
	Yusuhara	Mean	15	13	27	45	20	20	11	14	12	19	14	14	20	
		%	100	100	100	100	100	100	96	48	88	96	100	100	94	
		Max-d	60	33	72	220	57	45	34	21	25	69	36	44	220	
		Min-d	2	3	3	6	2	1	3	N.D.	N.D.	N.D.	N.D.	4	1	
	Hedo	Mean	33	31	54	68	41	20	21	26	37	39	38	35	37	
		%	81	100	97	100	100	100	100	100	100	100	100	100	98	
		Max-d	67	61	146	178	110	47	46	70	68	92	92	71	178	
		Min-d	17	12	20	17	13	8	5	8	14	10	3	16	3	
Ogasawara	Mean	13	12	19	28	13	6	5	11	7	14	13	12	13		
	%	98	99	100	100	100	100	99	100	95	91	100	100	98		
	Max-d	27	27	46	101	26	12	10	23	21	35	32	19	101		
	Min-d	5	4	7	5	4	3	2	4	4	6	5	5	2		
Republic of Korea	Kanghwa	Mean	31	32	39	49	49	62	40	44	42	58	47	63	46	
		%	97	99	97	93	98	90	99	93	94	99	99	99	96	
		Max-d	58	56	75	154	121	91	70	90	73	93	87	113	154	
		Min-d	17	17	23	17	11	24	26	24	28	24	22	30	11	
	Cheju	Mean	49	53	70	65	58	56	35	36	33	52	54	47	51	
		%	98	97	97	100	97	100	99	99	86	100	55	99	94	
		Max-d	127	129	151	342	98	93	65	60	54	98	119	108	342	
		Min-d	24	22	29	18	25	21	19	18	16	14	28	18	14	
	Imsil	Mean	70	68	67	62	68	72	35	43	36	62	52	51	57	
		%	100	97	80	99	96	97	99	95	98	95	97	100	96	
		Max-d	145	121	154	349	139	120	53	76	67	107	104	98	349	
		Min-d	29	38	52	23	30	30	18	29	24	20	19	32	18	

Table 4.11 PM₁₀

Unit : $\mu\text{g}/\text{m}^3$			2006												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Thailand	Bangkok	Mean	68	55	38	34	39	32	37	28	31	44	55	79	44	
		%	100	93	97	100	100	100	100	100	100	100	100	100	71	97
		Max-d	125	93	80	47	63	55	53	40	48	80	93	112	125	125
			Min-d	30	31	25	21	22	22	24	16	18	19	19	42	16
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	56	39	-	-	-	-	23	24	-	-	38	37
		%	0	0	39	7	0	0	0	0	42	7	0	0	45	12
		Max-d	-	-	81	42	-	-	-	-	31	-	-	-	60	81
			Min-d	-	-	35	37	-	-	-	16	-	-	-	28	16
	Chiangmai (Mae Hia)	Mean	48	57	84	42	19	21	23	21	25	35	51	58	41	
		%	100	89	100	93	97	100	97	100	100	100	97	100	98	
		Max-d	83	90	249	89	32	43	42	34	58	54	82	83	249	
		Min-d	25	36	27	14	11	14	11	11	11	13	15	32	38	11

Mean : monthly or annual arithmetic average value

Max-d : maximum value of daily data

Min-d : minimum value of daily data

% : monthly or annual percentage of period of available data

Table 4.12 PM_{2.5}

Unit : $\mu\text{g}/\text{m}^3$			2006												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Japan	Rishiri	Mean	7	10	9	7	11	6	7	8	7	9	10	8	8	
		%	99	98	100	100	100	100	100	99	100	88	100	100	99	
		Max-d	17	31	16	15	38	13	13	22	14	17	20	21	38	
	Oki	Min-d	3	4	4	4	3	3	3	3	3	3	4	4	3	3
		Mean	15	13	17	18	15	19	9	21	8	18	13	15	15	
		%	69	99	99	100	98	99	99	38	98	97	98	99	91	
		Max-d	55	37	35	38	45	48	22	42	15	42	39	35	55	
		Min-d	5	5	2	5	3	7	3	7	4	3	3	5	2	

Mean : monthly or annual arithmetic average value

Max-d : maximum value of daily data

Min-d : minimum value of daily data

% : monthly or annual percentage of period of available data

Table 4.13 Particulate matter component: SO₄²⁻

Unit : µg/m ³			2006												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Indonesia	Serpong	Mean	0.14	0.15	0.05	0.09	0.43	0.12	2.61	0.45	0.05	3.28	0.32	0.28	0.56	
		%	100	33	100	100	100	100	100	100	100	100	35	58	100	88
		Max-2w	0.19	-	0.09	0.13	0.58	0.34	4.09	0.56	0.11	-	-	-	0.45	4.09
		Min-2w	0.08	-	N.D.	0.05	0.29	N.D.	1.13	0.34	N.D.	-	-	-	0.11	N.D.
Japan	Rishiri	Mean	1.77	2.92	2.59	1.71	3.04	1.58	2.66	3.35	1.80	2.32	2.43	2.22	2.39	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	2.10	3.88	2.85	1.85	5.65	1.58	3.25	5.38	2.18	3.53	3.04	2.51	5.65	
		Min-2w	1.44	1.96	2.32	1.58	1.46	1.57	2.07	1.33	1.42	1.62	1.82	1.93	1.33	
	Tappi	Mean	2.95	5.50	5.67	4.85	2.85	3.75	3.03	5.14	2.39	2.68	4.68	3.26	4.10	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	3.11	5.55	6.10	5.98	4.06	4.82	3.23	7.74	2.65	2.91	4.88	4.09	7.74	
		Min-2w	2.79	5.44	5.24	3.72	1.92	2.68	2.83	2.54	2.14	2.45	4.46	2.43	1.92	
	Sado-seki	Mean	2.90	2.05	4.19	2.77	3.56	4.23	1.99	3.92	2.58	4.31	1.78	2.30	3.07	
		%	100	100	100	100	100	50	100	100	100	100	100	100	96	
		Max-2w	3.07	2.38	4.71	3.70	5.59	-	2.15	5.41	2.79	6.01	1.86	3.15	6.01	
		Min-2w	2.73	1.73	3.67	1.83	1.39	-	1.83	2.44	2.37	2.50	1.70	1.46	1.39	
	Happo	Mean	1.24	1.99	3.57	3.30	2.88	5.30	2.08	5.37	1.56	3.77	1.25	1.61	2.79	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	2.25	2.12	3.79	4.72	3.00	5.69	3.24	5.71	1.69	3.84	1.31	1.64	5.71	
		Min-2w	0.51	1.86	3.35	1.87	2.77	4.91	0.91	4.85	1.42	3.70	1.19	1.57	0.51	
	Ijira	Mean	1.52	3.61	4.69	4.24	6.23	8.70	3.24	7.69	4.58	6.87	2.64	2.96	4.89	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	2.89	3.87	5.41	4.92	9.86	10.38	3.48	9.95	5.95	10.14	2.78	3.17	10.38	
		Min-2w	0.15	3.36	3.98	3.56	4.00	7.02	3.00	5.43	3.20	3.47	2.50	2.75	0.15	
	Oki	Mean	3.78	6.26	6.98	6.18	7.36	8.70	3.76	7.66	2.62	7.19	5.43	4.08	5.73	
		%	100	100	100	100	100	100	100	100	100	52	85	100	93	
		Max-2w	3.82	6.43	7.12	7.12	9.71	9.50	4.42	9.72	2.82	-	7.56	5.52	9.72	
		Min-2w	3.74	6.14	6.84	5.23	5.91	7.89	3.10	5.60	2.42	-	3.30	1.27	1.27	
Banryu	Mean	5.05	6.07	8.15	6.00	7.38	8.76	4.08	7.01	4.37	8.83	5.85	5.46	6.55		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	6.55	6.57	9.10	6.51	8.32	8.91	4.64	8.41	5.72	13.48	8.53	5.66	13.48		
	Min-2w	3.56	5.57	7.20	5.49	6.02	8.61	3.52	5.61	3.01	5.75	3.17	5.25	3.01		
Yusuhara	Mean	4.86	4.39	7.10	5.64	5.74	8.32	3.78	4.23	3.83	7.90	5.14	4.98	5.81		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	6.33	5.28	7.71	6.39	6.55	11.61	5.00	4.50	3.98	11.73	7.85	5.21	11.73		
	Min-2w	3.39	3.50	6.50	4.88	4.93	5.98	2.56	3.97	3.69	4.07	3.40	4.74	2.56		
Hedo	Mean	7.70	6.65	8.22	8.99	7.67	2.06	2.11	5.04	7.70	7.94	6.60	6.19	6.51		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	7.71	7.77	9.01	10.30	8.19	2.75	2.80	6.78	9.39	9.09	7.13	6.69	10.30		
	Min-2w	7.70	5.54	7.43	7.68	7.22	1.37	1.42	3.30	6.01	6.38	6.06	5.69	1.37		
Ogasawara	Mean	1.46	2.55	1.60	2.87	1.54	1.14	0.53	0.81	1.40	1.69	1.57	2.93	1.65		
	%	100	100	100	100	100	100	100	100	80	50	100	61	90		
	Max-w	4.88	3.87	1.99	5.79	3.56	2.14	1.24	1.54	2.48	2.31	4.31	3.84	5.79		
	Min-w	0.03	1.29	1.32	0.06	0.12	0.14	N.D.	0.14	0.01	1.06	0.03	1.88	N.D.		
Malaysia	TanahRata	Mean	0.80	0.52	1.16	0.95	1.12	0.86	2.64	2.63	1.92	2.27	0.49	1.01	1.38	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	1.44	1.25	1.86	1.97	1.72	1.62	3.95	3.44	2.73	4.76	1.26	1.30	4.76	
		Min-w	0.21	0.08	0.87	0.03	0.76	0.29	1.75	1.60	1.10	0.25	0.04	0.88	0.03	
	Petaling Jaya	Mean	1.76	0.48	2.44	2.06	3.11	5.35	4.88	1.68	0.80	3.47	-	-	2.60	
		%	100	100	100	100	100	100	100	100	100	100	0	0	83	
		Max-w	5.80	1.01	5.61	9.02	8.78	9.51	12.04	4.04	1.30	8.24	-	-	12.04	
		Min-w	0.02	0.12	0.31	0.09	0.22	1.05	N.D.	0.73	0.43	0.34	-	-	N.D.	
	Danum Valley	Mean	0.80	N.D.	0.08	1.60	0.60	0.14	N.D.	1.74	0.05	1.53	0.82	0.49	0.69	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	1.59	N.D.	0.11	1.71	1.62	0.18	N.D.	1.79	0.06	2.87	1.17	0.93	2.87	
		Min-w	0.02	N.D.	0.05	1.49	0.05	0.10	N.D.	1.68	0.04	0.21	0.46	0.06	N.D.	
Mongolia	Ulaanbaatar	Mean	-	-	-	3.57	2.30	-	-	-	4.69	2.58	3.65	12.41	5.68	
		%	0	0	0	100	45	0	0	0	83	90	47	90	57	
		Max-w	-	-	-	5.92	3.78	-	-	-	-	10.86	3.29	4.23	16.12	16.12
		Min-w	-	-	-	0.99	0.82	-	-	-	-	N.D.	1.51	3.07	10.38	N.D.
	Terelj	Mean	1.23	1.47	1.52	2.01	2.62	0.78	0.64	0.63	3.50	0.86	1.09	0.62	1.40	
		%	100	100	100	100	89	85	100	100	100	100	100	100	96	
		Max-2w	1.47	1.95	2.11	2.43	3.23	0.80	0.66	0.84	4.87	0.97	1.58	1.03	4.87	
		Min-2w	0.98	0.98	0.66	1.59	2.01	0.75	0.62	0.41	2.13	0.75	0.49	0.21	0.21	
Philippines	Metro Manila	Mean	2.47	2.04	2.75	0.98	3.52	1.96	1.88	-	2.12	6.07	N.D.	N.D.	2.63	
		%	94	100	100	67	100	100	80	80	0	76	52	100	100	74
		Max-w	4.84	2.46	5.84	-	6.85	2.47	2.05	-	3.08	7.08	N.D.	N.D.	7.08	
		Min-w	1.46	1.40	0.20	-	1.17	0.66	1.67	-	0.80	5.05	N.D.	N.D.	N.D.	
	Los Banos	Mean	0.52	0.60	0.94	1.98	1.12	1.85	1.20	1.04	2.77	3.71	0.95	1.24	1.52	
		%	100	100	80	100	100	25	20	33	40	100	45	100	83	
		Max-w	0.81	0.73	1.90	2.98	1.38	-	-	-	3.91	6.19	1.82	1.47	6.19	
		Min-w	0.24	0.46	0.33	0.62	0.64	-	-	-	1.64	1.37	0.09	1.12	0.09	
	Mt. Sto. Tomas	Mean	-	-	-	-	-	-	-	-	-	-	0.14	0.13	0.14	0.14
		%	0	0	0	0	0	0	0	0	0	0	84	78	100	35
		Max-w	-	-	-	-	-	-	-	-	-	-	0.18	0.14	0.28	0.28
		Min-w	-	-	-	-	-	-	-	-	-	-	0.10	0.10	0.01	0.01

Table 4.13 Particulate matter component: SO₄²⁻

Unit : µg/m ³			2006												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Republic of Korea	Kanghwa	Mean	4.21	2.92	1.27	2.05	4.87	7.04	0.93	2.06	2.01	5.76	4.87	4.06	3.43	
		%	6	18	16	17	16	17	16	16	17	16	16	13	13	15
		Max-d	5.98	5.05	1.82	3.55	10.35	12.62	1.96	7.53	4.02	10.27	12.13	8.89	12.62	
		Min-d	2.44	1.00	1.00	1.25	0.42	2.67	0.19	0.02	0.84	1.02	0.30	0.69	0.02	
	Cheju	Mean	8.07	8.51	10.60	8.91	8.23	6.52	4.65	6.57	3.26	12.79	8.47	8.21	8.05	
		%	19	14	16	17	19	10	16	16	17	16	17	16	16	
		Max-d	16.69	14.58	30.08	15.34	14.45	18.46	10.29	14.89	5.90	24.49	17.08	14.97	30.08	
		Min-d	3.24	1.76	1.14	3.21	4.25	2.76	1.46	0.69	1.33	6.24	1.31	3.29	0.69	
	Imsil	Mean	15.82	11.57	10.78	9.19	21.16	13.43	4.83	10.44	6.61	3.89	9.01	5.92	10.31	
		%	13	14	16	17	16	17	13	16	13	16	17	16	15	
		Max-d	31.96	19.72	20.00	18.19	42.03	22.84	11.89	21.19	20.86	8.71	12.57	12.71	42.03	
		Min-d	1.83	2.81	3.20	4.48	9.20	6.09	0.20	4.69	N.D.	1.38	1.58	2.89	N.D.	
Russia	Mondy	Mean	0.59	0.62	0.43	0.84	1.16	0.62	0.51	0.58	0.07	0.08	0.26	0.13	0.49	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.60	0.70	0.67	1.1	1.7	1.0	0.64	0.95	0.08	0.09	0.36	0.13	1.67	
		Min-2w	0.59	0.53	0.18	0.6	0.6	0.2	0.37	0.21	0.07	0.07	0.17	0.13	0.07	
	Listvianka	Mean	0.57	0.99	0.70	1.29	2.11	1.02	1.34	1.19	1.53	0.85	1.56	0.72	1.16	
		%	92	100	100	100	100	100	100	100	100	100	100	100	98	
		Max*	0.89	1.81	1.56	1.94	4.12	1.25	1.82	1.32	2.68	1.37	2.70	1.07	4.12	
		Min*	0.38	0.60	0.30	0.71	1.11	0.81	0.98	1.06	0.46	0.52	0.41	0.19	0.19	
	Irkutsk	Mean	5.01	2.39	3.65	1.94	2.22	1.06	1.30	0.75	1.08	1.06	2.41	3.02	2.13	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	7.34	3.68	6.00	2.63	4.15	1.25	1.94	1.82	2.08	1.63	2.76	5.31	7.34	
		Min-w	3.56	1.40	2.13	1.13	0.96	0.85	0.98	0.15	0.14	0.24	1.59	0.07	0.07	
	Primorskaya	Mean	5.36	5.89	3.99	3.31	4.02	3.41	3.25	5.60	2.72	3.32	3.23	5.16	4.11	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	6.02	6.80	4.49	3.82	5.04	4.29	3.86	8.36	3.61	3.98	3.34	5.55	8.36	
		Min-2w	4.70	4.97	3.50	2.79	3.00	2.54	2.64	2.85	1.83	2.65	3.12	4.78	1.83	
	Thai Land	Bangkok	Mean	7.3	19.7	2.8	1.98	2.29	0.17	0.75	1.13	2.73	8.08	8.10	6.49	4.71
			%	100	100	63	100	100	100	100	100	100	100	100	100	97
			Max-10d	12.39	38.35	7.60	5.18	2.82	0.27	1.94	1.66	4.03	17.78	12.07	18.36	38.35
			Min-10d	2.16	1.05	0.34	0.38	1.43	0.06	0.09	0.08	1.97	1.53	4.69	0.38	0.06
		Patumthani	Mean	3.74	3.48	6.87	2.34	2.02	1.05	2.36	1.56	3.20	6.01	6.02	5.06	3.64
			%	100	100	100	100	100	100	100	100	100	100	100	100	97
			Max-10d	4.14	4.01	8.35	4.20	5.49	1.94	2.53	2.21	6.12	12.82	11.66	9.26	12.82
			Min-10d	3.34	2.94	6.00	0.14	0.21	0.14	2.12	0.54	1.72	2.51	2.33	1.89	0.14
Khanchanaburi (Vachiralongkorn Dam)		Mean	-	-	2.96	-	-	-	-	0.52	-	-	-	4.74	2.74	
		%	0	0	52	0	0	0	0	57	0	0	0	59	14	
		Max-2w	-	-	-	-	-	-	-	-	-	-	-	-	4.74	
		Min-2w	-	-	-	-	-	-	-	-	-	-	-	-	0.52	
Chiangmai (Mae Hia)		Mean	2.03	4.71	1.25	3.20	0.69	0.27	0.49	0.56	1.52	1.80	4.44	5.66	2.22	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-10d	3.40	5.38	2.92	4.10	1.30	0.51	1.28	0.68	2.69	4.14	7.52	9.19	9.19	
		Min-10d	0.59	3.39	0.10	1.52	0.26	N.D.	N.D.	0.47	0.37	0.04	0.97	0.54	N.D.	
Nakhon Ratchasima		Mean	2.54	0.81	5.29	1.88	2.19	1.49	2.59	2.74	1.90	6.75	6.15	N.D.	3.14	
		%	100	100	62	100	100	100	36	100	58	100	100	66	88	
		Max-10d	4.81	0.82	5.47	2.88	4.06	2.19	-	4.93	2.06	15.39	6.66	-	15.39	
		Min-10d	0.26	0.80	5.11	0.28	0.11	0.46	-	1.45	1.75	0.10	5.33	-	N.D.	
Viet Nam		Ha Noi	Mean	16.50	51.99	41.35	34.02	24.25	15.39	7.32	1.67	3.50	2.72	2.98	4.88	16.46
			%	100	100	100	100	100	100	100	100	100	100	100	100	100
			Max-w	76.59	110.49	51.38	39.69	39.93	22.83	11.28	2.74	5.12	3.81	4.63	6.32	110.49
			Min-w	0.25	3.76	32.43	23.50	14.76	7.59	3.08	0.54	2.33	2.18	1.45	2.27	0.25
	Hoa Binh	Mean	12.31	39.53	4.05	1.79	6.72	6.19	2.02	2.55	12.40	6.77	14.02	8.08	7.80	
		%	100	33	100	100	100	100	100	100	100	100	100	100	96	
		Max-w	22.18	-	10.50	3.99	12.01	10.07	3.48	5.08	22.76	14.40	25.51	23.43	39.53	
		Min-w	1.44	-	0.43	0.25	1.74	0.65	0.32	1.48	2.67	3.37	5.02	0.25	0.25	

Mean : monthly or annual arithmetic average value
 Max-d : maximum value of daily data
 Min-d : minimum value of daily data
 Max-10d : maximum value of 10-day interval data
 Min-10d : minimum value of 10-day interval data
 Max-w : maximum value of weekly data
 Min-w : minimum value of weekly data
 Max-2w : maximum value of biweekly data
 Min-2w : minimum value of biweekly data
 Max-* : maximum value of flexible interval data
 Min-* : minimum value of flexible interval data
 % : monthly or annual percentage of period of available data

Table 4.14 Particulate matter component: NO₃⁻

Unit : µg/m ³			2006													Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Indonesia	Serpong	Mean	N.D.	0.13	N.D.	0.08	0.02	0.72	0.72	0.99	0.45	1.26	N.D.	N.D.	0.37	
		%	100	33	100	100	100	100	100	100	100	100	35	58	100	88
		Max-2w	N.D.	-	N.D.	0.16	0.04	1.60	1.31	1.38	0.54	-	-	-	N.D.	1.60
		Min-2w	N.D.	-	N.D.	N.D.	N.D.	N.D.	0.12	0.61	0.37	-	-	-	N.D.	N.D.
Japan	Rishiri	Mean	0.26	0.80	0.47	0.42	1.15	0.33	0.51	0.33	0.54	0.62	0.58	0.63	0.58	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.30	1.35	0.48	0.43	1.90	0.40	0.67	0.41	0.55	1.10	0.79	0.67	1.90	
		Min-2w	0.21	0.26	0.47	0.42	0.73	0.26	0.36	0.25	0.53	0.31	0.37	0.59	0.21	
	Tappi	Mean	0.70	1.72	1.85	1.24	1.56	0.88	0.65	0.42	0.98	1.17	1.35	1.26	1.17	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.79	2.10	1.96	1.40	2.57	1.02	0.68	0.66	1.09	1.38	1.76	1.82	2.57	
		Min-2w	0.62	1.34	1.74	1.08	0.78	0.74	0.63	0.17	0.88	0.95	0.79	0.71	0.17	
	Sado-seki	Mean	0.59	0.47	1.46	0.71	1.17	0.47	0.44	0.44	0.95	1.49	0.31	0.45	0.80	
		%	100	100	100	100	100	50	100	100	100	100	100	100	96	
		Max-2w	0.68	0.73	1.67	0.77	2.25	-	0.62	0.80	0.97	2.00	0.42	0.49	2.25	
		Min-2w	0.51	0.21	1.26	0.65	0.59	-	0.25	0.08	0.93	0.49	0.19	0.40	0.08	
	Happo	Mean	0.02	0.05	1.09	0.87	0.32	0.40	0.05	0.11	0.12	0.23	N.D.	N.D.	0.25	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.04	0.11	1.18	1.50	0.46	0.54	0.06	0.25	0.20	0.27	N.D.	N.D.	1.50	
		Min-2w	N.D.	N.D.	1.00	0.24	0.17	0.27	0.04	0.04	0.04	0.18	N.D.	N.D.	N.D.	
	Ijira	Mean	0.20	0.46	1.56	1.11	0.87	0.32	0.16	0.27	0.25	0.39	0.46	0.31	0.54	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.35	0.78	1.89	1.22	1.25	0.42	0.19	0.43	0.44	0.58	0.56	0.44	1.89	
		Min-2w	0.05	0.14	1.23	1.00	0.44	0.22	0.14	0.11	0.07	0.26	0.36	0.18	0.05	
	Oki	Mean	0.77	1.93	2.66	2.50	1.33	0.59	0.69	0.51	0.94	1.42	1.53	1.09	1.28	
		%	100	100	100	100	100	100	100	100	100	52	85	100	93	
		Max-2w	0.78	2.68	2.77	2.77	2.26	0.75	1.02	0.92	1.02	-	2.10	1.64	2.77	
		Min-2w	0.76	1.23	2.55	2.22	0.51	0.42	0.37	0.11	0.86	-	0.95	0.44	0.11	
	Banryu	Mean	1.81	2.28	3.28	2.73	1.28	0.32	0.64	0.72	1.03	1.13	1.93	1.72	1.54	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	1.88	2.31	3.41	2.82	1.73	0.35	0.91	1.33	1.08	1.68	2.34	1.87	3.41	
		Min-2w	1.75	2.26	3.15	2.63	0.76	0.29	0.37	0.11	0.97	0.56	1.51	1.57	0.11	
	Yusuhara	Mean	0.63	0.45	1.60	1.80	0.44	0.07	0.25	0.03	0.16	0.19	0.68	0.40	0.59	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.91	0.55	1.65	1.86	0.70	0.07	0.49	0.03	0.29	0.22	0.83	0.52	1.86	
		Min-2w	0.35	0.35	1.55	1.75	0.17	0.06	N.D.	0.02	0.02	0.16	0.58	0.28	N.D.	
	Hedo	Mean	1.43	1.52	2.56	2.98	1.76	0.62	0.63	0.85	1.39	2.29	1.87	1.45	1.65	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	1.58	1.61	3.42	3.48	2.54	0.64	0.71	1.09	1.74	2.58	2.05	1.45	3.48	
		Min-2w	1.29	1.44	1.70	2.49	0.87	0.60	0.56	0.61	1.05	1.84	1.69	1.45	0.56	
	Ogasawara	Mean	0.31	0.70	0.41	0.78	0.28	0.16	0.12	0.07	0.24	0.38	0.41	0.43	0.36	
		%	100	100	100	100	100	100	100	100	80	50	100	61	90	
		Max-w	1.03	0.98	0.56	1.53	0.52	0.32	0.37	0.16	0.48	0.65	1.16	0.78	1.53	
		Min-w	0.01	0.38	0.34	N.D.	0.04	0.03	N.D.	N.D.	N.D.	0.10	N.D.	0.08	N.D.	
	Malaysia	TanahRata	Mean	0.06	0.12	0.08	0.04	0.05	0.09	0.48	0.55	0.09	0.35	0.05	0.16	0.18
			%	100	100	100	100	100	100	100	100	100	100	100	100	100
			Max-w	0.09	0.25	0.18	0.10	0.08	0.20	0.91	0.95	0.17	0.98	0.08	0.25	0.98
			Min-w	0.03	N.D.	0.02	N.D.	0.02	0.04	0.03	0.19	0.05	0.02	0.02	0.10	N.D.
		Petaling Jaya	Mean	0.56	0.30	0.69	0.51	0.89	1.46	2.18	0.72	0.08	0.68	-	-	0.81
			%	100	100	100	100	100	100	100	100	100	100	0	0	83
			Max-w	1.59	0.76	1.89	1.75	1.98	2.03	4.51	2.27	0.27	1.52	-	-	4.51
			Min-w	0.05	0.09	0.08	0.05	0.07	0.36	0.26	N.D.	N.D.	0.12	-	-	N.D.
Danum Valley		Mean	0.24	N.D.	N.D.	0.04	0.03	0.06	N.D.	0.03	0.01	N.D.	0.18	0.03	0.05	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.47	N.D.	N.D.	0.07	0.06	0.08	N.D.	0.04	0.01	0.02	0.31	0.04	0.47	
		Min-w	0.02	N.D.	N.D.	0.02	N.D.	0.04	N.D.	0.01	0.01	N.D.	0.04	N.D.	N.D.	
Mongolia	Ulaanbaatar	Mean	-	-	-	0.89	0.76	-	-	-	1.20	0.98	1.44	3.88	1.74	
		%	0	0	0	100	45	0	0	0	83	90	47	90	57	
		Max-w	-	-	-	1.32	1.20	-	-	-	-	2.17	1.42	1.55	5.74	5.74
		Min-w	-	-	-	0.28	0.32	-	-	-	-	N.D.	0.53	1.33	2.68	N.D.
	Terelj	Mean	0.28	0.18	0.20	0.30	0.34	0.14	0.10	0.11	0.22	0.15	0.19	0.09	0.19	
		%	100	100	100	100	89	85	100	100	100	100	100	100	96	
		Max-2w	0.35	0.21	0.26	0.33	0.40	0.17	0.11	0.14	0.32	0.20	0.26	0.12	0.40	
		Min-2w	0.20	0.15	0.13	0.26	0.28	0.10	0.09	0.07	0.11	0.10	0.13	0.05	0.05	
Philippines	Metro Manila	Mean	1.14	0.93	0.87	0.29	0.90	0.72	0.88	-	0.81	3.29	N.D.	N.D.	1.03	
		%	94	100	100	67	100	100	80	80	0	76	52	100	100	74
		Max-w	1.55	1.25	1.46	-	1.15	1.23	1.30	-	1.45	3.34	N.D.	N.D.	3.34	
		Min-w	0.83	0.44	0.06	-	0.57	0.31	0.49	-	0.41	3.24	N.D.	N.D.	N.D.	
	Los Banos	Mean	0.14	0.13	0.30	0.30	0.26	0.11	0.51	0.28	0.21	0.65	0.26	0.31	0.29	
		%	100	100	80	100	100	25	20	33	40	100	45	100	83	
		Max-w	0.18	0.16	0.47	0.45	0.46	-	-	-	0.28	0.81	0.51	0.44	0.81	
		Min-w	0.12	0.09	0.12	0.22	0.08	-	-	-	0.15	0.47	0.02	0.22	0.02	
	Mt. Sto. Tomas	Mean	-	-	-	-	-	-	-	-	-	-	0.02	0.01	0.02	0.02
		%	0	0	0	0	0	0	0	0	0	84	78	100	35	
		Max-w	-	-	-	-	-	-	-	-	-	-	0.03	0.02	0.03	0.03
		Min-w	-	-	-	-	-	-	-	-	-	-	N.D.	N.D.	0.01	N.D.

Table 4.14 Particulate matter component: NO₃⁻

Unit : µg/m ³			2006													Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Republic of Korea	Kanghwa	Mean	4.61	3.33	0.84	3.43	1.28	1.77	0.46	0.21	0.13	1.77	3.96	5.08	2.03	
		%	6	18	16	17	16	17	16	16	17	16	16	13	13	15
		Max-d	8.56	6.89	1.36	5.19	4.72	4.28	1.01	0.31	0.17	6.37	11.21	9.33	11.21	
		Min-d	0.66	0.58	0.39	1.49	0.24	0.27	0.09	0.10	0.07	0.23	0.62	2.67	0.07	
	Cheju	Mean	0.38	0.69	0.65	0.75	0.20	0.53	0.25	0.10	0.13	0.10	0.71	0.25	0.39	
		%	19	14	16	17	19	10	16	16	17	16	17	16	16	
		Max-d	1.60	2.01	1.08	1.26	0.54	1.97	0.54	0.19	0.28	0.19	2.69	0.92	2.69	
		Min-d	0.08	0.18	0.32	0.46	0.09	0.03	0.11	0.06	0.06	0.05	0.07	0.04	0.03	
	Imsil	Mean	12.29	7.93	6.36	4.43	3.14	0.93	0.17	0.10	0.26	1.96	5.07	6.19	3.99	
		%	13	14	16	17	16	17	13	16	13	16	17	16	15	
		Max-d	25.53	16.12	12.37	10.11	8.45	1.27	0.34	0.26	0.43	3.48	9.12	12.24	25.53	
		Min-d	1.93	1.45	1.58	1.68	0.83	0.40	0.03	N.D.	N.D.	0.11	1.01	1.90	N.D.	
Russia	Mondy	Mean	0.04	0.05	0.03	0.08	0.10	0.16	0.17	0.04	N.D.	N.D.	0.01	0.01	N.D.	0.06
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.04	0.05	0.04	0.1	0.1	0.2	0.30	0.06	N.D.	N.D.	0.01	0.01	N.D.	0.30
		Min-2w	0.03	0.05	0.01	0.0	0.1	0.1	0.04	0.03	N.D.	N.D.	0.01	N.D.	N.D.	
	Listvianka	Mean	0.15	0.23	0.07	0.20	0.17	0.17	0.19	0.15	0.08	0.20	0.54	0.09	0.19	
		%	92	100	100	100	100	100	100	100	100	100	100	100	98	
		Max*	0.22	0.47	0.10	0.35	0.21	0.20	0.28	0.17	0.18	0.42	1.56	0.15	1.56	
		Min*	0.10	0.09	0.04	0.11	0.12	0.15	0.10	0.12	0.03	0.05	0.06	0.04	0.03	
	Irkutsk	Mean	1.56	0.87	1.39	0.54	1.03	0.43	0.36	0.09	0.16	0.56	0.57	0.93	0.69	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	1.91	1.33	1.98	0.76	1.99	0.51	0.51	0.26	0.37	1.41	0.83	2.14	2.14	
		Min-w	1.06	0.40	0.88	0.35	0.68	0.31	0.25	N.D.	N.D.	0.01	0.43	N.D.	N.D.	
	Primorskaya	Mean	2.30	2.65	1.57	0.66	0.69	0.30	0.07	0.07	0.23	1.10	1.96	2.55	1.18	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	3.00	3.57	1.58	0.78	0.78	0.40	0.07	0.11	0.23	1.72	2.30	2.75	3.57	
		Min-2w	1.60	1.73	1.55	0.54	0.61	0.21	0.06	0.03	0.22	0.47	1.62	2.34	0.03	
Thai Land	Bangkok	Mean	2.3	8.0	1.5	0.72	1.55	0.14	0.44	0.64	0.53	1.57	2.30	1.66	1.60	
		%	100	100	63	100	100	100	100	100	100	100	100	100	97	
		Max-10d	6.24	15.16	3.10	1.66	2.34	0.23	1.16	0.97	0.98	1.97	3.06	4.30	15.16	
		Min-10d	0.17	0.77	0.66	0.15	0.74	0.06	0.07	0.04	N.D.	1.09	1.87	0.14	N.D.	
	Patumthani	Mean	0.33	0.60	0.27	0.22	0.47	0.52	1.12	0.63	0.65	0.61	0.16	0.65	0.52	
		%	100	100	100	100	100	100	100	100	100	100	100	100	97	
		Max-10d	0.34	0.68	0.36	0.38	1.07	0.78	1.47	0.92	0.70	1.39	0.24	0.89	1.47	
		Min-10d	0.31	0.53	0.22	0.02	0.12	0.26	0.81	0.39	0.59	0.12	0.05	0.41	0.02	
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	0.17	-	-	-	-	0.07	-	-	-	0.05	0.09	
		%	0	0	52	0	0	0	0	57	0	0	0	59	14	
		Max-2w	-	-	-	-	-	-	-	-	-	-	-	-	0.17	
		Min-2w	-	-	-	-	-	-	-	-	-	-	-	-	0.05	
	Chiangmai (Mae Hia)	Mean	0.30	0.90	1.29	0.67	0.40	0.18	0.26	2.92	0.25	0.05	0.40	0.48	0.67	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-10d	0.62	1.43	1.77	0.84	0.94	0.31	0.37	5.89	0.34	0.14	1.03	0.53	5.89	
		Min-10d	N.D.	0.59	0.82	0.55	0.05	0.05	0.12	1.00	0.11	N.D.	0.05	0.41	N.D.	
Nakhon Ratchasima	Mean	0.0	0.0	1.6	0.9	1.6	0.6	1.5	1.0	0.7	0.3	1.1	N.D.	0.8		
	%	100	100	62	100	100	100	36	100	58	100	100	66	88		
	Max-10d	0.1	0.1	2.2	1.3	2.4	1.0	-	1.3	0.8	0.4	2.2	-	2.4		
	Min-10d	N.D.	N.D.	0.9	0.2	0.2	0.3	-	0.8	0.6	0.1	0.5	-	N.D.		
Viet Nam	Ha Noi	Mean	7.13	10.43	15.49	11.77	6.23	4.09	2.68	0.80	1.73	1.06	1.87	1.31	5.34	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	30.48	16.50	25.01	13.17	6.91	5.11	3.69	1.22	2.36	1.23	2.42	2.14	30.48	
		Min-w	0.65	0.84	8.96	8.90	5.01	2.94	0.80	0.32	1.06	0.84	0.77	0.60	0.32	
	Hoa Binh	Mean	2.31	12.38	1.06	0.24	0.44	0.68	0.40	0.21	0.64	0.39	1.27	1.36	1.09	
		%	100	33	100	100	100	100	100	100	100	100	100	100	96	
		Max-w	5.91	-	2.95	0.49	0.63	1.36	0.81	0.29	1.01	0.70	2.35	3.15	12.38	
		Min-w	0.22	-	0.10	0.06	0.27	0.07	0.08	0.17	0.48	0.27	0.26	0.07	0.06	

Mean : monthly or annual arithmetic average value
 Max-d : maximum value of daily data
 Min-d : minimum value of daily data
 Max-10d : maximum value of 10-day interval data
 Min-10d : minimum value of 10-day interval data
 Max-w : maximum value of weekly data
 Min-w : minimum value of weekly data
 Max-2w : maximum value of biweekly data
 Min-2w : minimum value of biweekly data
 Max-* : maximum value of flexible interval data
 Min-* : minimum value of flexible interval data
 % : monthly or annual percentage of period of available data

Table 4.15 Particulate matter component: Cl⁻

Unit : µg/m ³		2006														Annual
Country	Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
Indonesia	Serpong	Mean	0.12	0.18	0.31	0.77	0.04	0.06	0.31	0.02	0.05	0.80	0.07	0.10	0.21	
		%	100	33	100	100	100	100	100	100	100	35	58	100	88	
		Max-2w	0.13	-	0.52	0.89	0.06	0.17	0.56	0.04	0.09	-	-	-	0.19	0.89
		Min-2w	0.10	-	0.10	0.65	0.03	N.D.	0.05	N.D.	0.01	-	-	-	0.01	N.D.
Japan	Rishiri	Mean	1.07	2.96	2.88	1.71	1.55	0.16	0.37	0.19	2.42	4.75	3.17	2.01	2.03	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	1.72	5.23	3.91	1.93	2.00	0.16	0.54	0.34	2.91	7.73	4.31	2.13	7.73	
		Min-2w	0.42	0.69	1.84	1.49	0.78	0.16	0.20	0.05	1.93	2.12	2.04	1.88	0.05	
	Tappi	Mean	5.96	16.30	12.16	17.46	2.66	0.50	0.42	0.16	3.05	3.59	12.68	4.79	8.08	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	7.12	17.64	17.55	27.30	6.52	0.65	0.44	0.30	5.31	4.21	16.46	5.14	27.30	
		Min-2w	4.79	14.96	6.77	7.63	0.22	0.34	0.41	0.01	0.78	2.97	5.35	4.44	0.01	
	Sado-seki	Mean	5.50	4.05	4.87	4.96	1.63	0.03	0.36	0.13	3.09	3.65	5.54	8.14	3.56	
		%	100	100	100	100	100	50	100	100	100	100	100	100	96	
		Max-2w	6.90	5.14	6.31	7.78	4.35	-	0.59	0.25	4.44	6.66	6.20	14.70	14.70	
		Min-2w	4.09	2.96	3.43	2.13	0.04	-	0.14	N.D.	1.74	2.10	4.87	1.57	N.D.	
	Happo	Mean	N.D.	N.D.	0.07	0.17	N.D.	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.03	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	N.D.	N.D.	0.09	0.30	0.01	0.02	N.D.	0.03	0.02	N.D.	N.D.	0.02	0.30	
		Min-2w	N.D.	N.D.	0.06	0.04	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
	Ijira	Mean	0.05	0.04	0.07	0.16	0.06	0.02	0.01	0.02	0.01	0.04	0.11	0.04	0.05	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.05	0.06	0.12	0.19	0.11	0.03	0.01	0.04	0.02	0.07	0.16	0.07	0.19	
		Min-2w	0.04	0.02	0.02	0.13	0.02	0.01	0.01	N.D.	N.D.	0.01	0.05	0.01	N.D.	
	Oki	Mean	3.64	3.15	4.03	4.33	0.87	0.21	0.38	0.24	2.84	1.56	4.49	3.61	2.42	
		%	100	100	100	100	100	100	100	100	100	52	85	100	93	
		Max-2w	4.00	3.53	4.17	4.50	2.25	0.28	0.63	0.43	3.21	-	4.79	6.50	6.50	
		Min-2w	3.27	2.53	3.89	4.17	0.10	0.15	0.12	0.04	2.48	-	4.19	0.27	0.04	
	Banryu	Mean	1.52	2.00	1.52	2.55	0.55	0.07	0.20	0.30	2.11	1.13	5.27	1.03	1.47	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	1.74	2.08	1.84	3.06	1.29	0.09	0.35	0.58	2.91	2.43	8.25	1.13	8.25	
		Min-2w	1.31	1.91	1.20	2.05	0.07	0.04	0.05	0.02	1.31	0.09	2.29	0.94	0.02	
Yusuhara	Mean	0.11	0.14	0.15	0.28	0.09	0.02	0.15	N.D.	N.D.	N.D.	0.07	0.02	0.08		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	0.12	0.22	0.18	0.38	0.11	0.03	0.28	N.D.	N.D.	0.01	0.09	0.03	0.38		
	Min-2w	0.11	0.06	0.12	0.18	0.07	N.D.	N.D.	N.D.	N.D.	N.D.	0.03	0.02	N.D.		
Hedo	Mean	6.75	7.96	7.60	6.51	3.65	3.12	6.57	4.10	5.63	8.26	7.02	9.37	6.35		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	7.42	8.81	7.61	6.81	4.01	4.34	10.09	5.72	9.79	9.74	7.15	10.60	10.60		
	Min-2w	6.08	7.11	7.60	6.21	3.41	1.90	3.05	2.48	1.47	7.11	6.88	8.15	1.47		
Ogasawara	Mean	1.63	3.66	2.20	3.81	2.79	1.29	1.09	3.77	1.80	4.25	2.15	5.37	2.69		
	%	100	100	100	100	100	100	100	100	80	50	100	61	90		
	Max-w	5.12	4.16	4.78	9.47	6.31	2.55	3.34	6.54	2.67	4.96	4.47	8.10	9.47		
	Min-w	0.10	3.45	1.04	N.D.	0.30	0.05	0.02	0.15	0.03	3.54	0.17	2.81	N.D.		
Malaysia	TanahRata	Mean	0.02	0.16	0.01	N.D.	N.D.	0.02	0.06	0.07	N.D.	0.02	0.02	0.12	0.04	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.04	0.40	0.03	0.01	N.D.	0.08	0.16	0.11	N.D.	0.03	0.04	0.22	0.40	
		Min-w	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.02	N.D.	N.D.	N.D.	0.04	N.D.	
	Petaling Jaya	Mean	0.05	0.03	0.03	0.02	0.13	0.15	0.26	0.14	0.09	0.05	-	-	0.10	
		%	100	100	100	100	100	100	100	100	100	100	0	0	83	
		Max-w	0.08	0.05	0.06	0.07	0.30	0.22	0.55	0.29	0.33	0.15	-	-	0.55	
		Min-w	0.02	N.D.	N.D.	N.D.	0.05	0.02	0.05	0.07	N.D.	N.D.	-	-	N.D.	
	Danum Valley	Mean	0.14	N.D.	0.05	0.01	0.04	0.09	N.D.	0.01	N.D.	N.D.	0.13	0.06	0.04	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.28	N.D.	0.09	0.02	0.09	0.10	N.D.	0.01	N.D.	N.D.	0.20	0.12	0.28	
		Min-w	N.D.	N.D.	N.D.	N.D.	N.D.	0.09	N.D.	N.D.	N.D.	N.D.	0.05	N.D.	N.D.	
Mongolia	Ulaanbaatar	Mean	-	-	-	0.59	0.66	-	-	-	0.57	0.95	1.31	2.54	1.25	
		%	0	0	0	100	45	0	0	0	83	90	47	90	57	
		Max-w	-	-	-	1.02	0.76	-	-	-	-	0.88	1.24	1.49	3.22	3.22
		Min-w	-	-	-	0.26	0.55	-	-	-	-	N.D.	0.52	1.12	2.08	N.D.
	Terelj	Mean	0.12	0.11	0.15	0.23	0.35	0.14	0.15	0.24	0.26	0.19	0.20	0.15	0.19	
		%	100	100	100	100	89	85	100	100	100	100	100	100	96	
		Max-2w	0.13	0.13	0.28	0.26	0.41	0.20	0.21	0.24	0.29	0.19	0.24	0.16	0.41	
		Min-2w	0.10	0.08	0.08	0.19	0.28	0.08	0.08	0.24	0.22	0.18	0.16	0.13	0.08	
Philippines	Metro Manila	Mean	1.00	1.07	0.31	0.06	0.14	0.12	1.13	-	0.37	1.56	N.D.	N.D.	0.62	
		%	94	100	100	67	100	100	80	0	76	52	100	100	74	
		Max-w	2.27	1.20	0.77	-	0.22	0.18	2.04	-	0.54	2.13	N.D.	N.D.	2.27	
		Min-w	0.22	0.96	0.05	-	0.08	0.06	0.70	-	0.18	1.00	N.D.	N.D.	N.D.	
	Los Banos	Mean	0.56	1.08	0.61	0.39	0.18	0.01	0.22	0.18	0.18	0.60	0.55	2.34	0.67	
		%	100	100	80	100	100	25	20	33	40	100	45	100	83	
		Max-w	0.90	1.29	0.82	0.54	0.37	-	-	-	0.35	1.52	0.95	2.63	2.63	
		Min-w	0.19	0.83	0.25	0.19	0.04	-	-	-	0.01	0.18	0.14	1.89	0.01	
	Mt. Sto. Tomas	Mean	-	-	-	-	-	-	-	-	-	0.02	0.04	0.02	0.03	
		%	0	0	0	0	0	0	0	0	0	84	78	100	35	
		Max-w	-	-	-	-	-	-	-	-	-	0.05	0.06	0.04	0.06	
		Min-w	-	-	-	-	-	-	-	-	-	N.D.	0.01	0.01	N.D.	

Table 4.15 Particulate matter component: Cl⁻

Unit : µg/m ³			2006													Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Republic of Korea	Kanghwa	Mean	0.33	0.30	0.14	0.19	0.10	0.15	0.11	0.05	0.12	0.05	0.14	0.26	0.15	
		%	6	18	16	17	16	17	16	16	17	16	13	13	15	
		Max-d	0.58	0.52	0.27	0.47	0.21	0.29	0.25	0.12	0.24	0.09	0.26	0.70	0.70	
		Min-d	0.08	0.11	0.07	0.04	0.03	0.05	0.02	0.01	0.02	0.02	N.D.	0.06	N.D.	
	Cheju	Mean	0.11	0.15	0.12	0.16	0.06	0.28	0.23	0.13	0.05	0.11	0.05	0.15	0.13	
		%	19	14	16	17	19	10	16	16	17	16	17	16	16	
		Max-d	0.29	0.26	0.16	0.54	0.12	0.51	0.60	0.18	0.11	0.17	0.09	0.23	0.60	
		Min-d	0.05	0.10	0.06	0.05	0.02	0.14	0.02	N.D.	0.02	0.06	N.D.	0.04	N.D.	
	Imsil	Mean	0.82	0.43	0.34	0.43	0.10	0.06	0.26	0.01	0.12	0.13	0.26	0.56	0.29	
		%	13	14	16	17	16	17	13	16	13	16	17	16	15	
		Max-d	1.86	1.09	0.58	1.11	0.25	0.12	0.34	0.02	0.29	0.15	0.47	1.40	1.86	
		Min-d	0.22	0.03	0.17	0.09	N.D.	0.02	0.22	N.D.	N.D.	0.11	0.02	0.08	N.D.	
Russia	Mondy	Mean	N.D.	0.02	N.D.	0.01	0.03	0.02	0.16	0.01	N.D.	N.D.	0.03	0.08	0.03	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.02	0.04	N.D.	0.0	0.0	0.0	0.18	0.01	N.D.	N.D.	0.03	0.11	0.18	
		Min-2w	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.15	0.01	N.D.	N.D.	0.03	0.05	N.D.	
	Listvianka	Mean	0.11	0.02	0.11	0.03	0.10	0.03	0.30	0.10	0.02	0.08	0.07	0.10	0.08	
		%	92	100	100	100	100	100	100	100	100	100	100	100	98	
		Max*	0.24	0.04	0.24	0.06	0.25	0.05	0.56	0.15	0.03	0.19	0.09	0.35	0.56	
		Min*	N.D.	0.01	N.D.	N.D.	0.01	0.02	0.07	0.04	N.D.	0.02	0.03	0.02	N.D.	
	Irkutsk	Mean	0.38	0.13	0.46	0.14	0.08	0.05	0.10	0.01	0.04	0.19	0.39	0.34	0.19	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	1.46	0.34	0.80	0.21	0.12	0.07	0.22	0.02	0.06	0.38	1.07	0.87	1.46	
		Min-w	N.D.	N.D.	0.16	0.10	0.07	0.04	0.05	N.D.	N.D.	N.D.	0.14	0.14	N.D.	
Primorskaya	Mean	0.11	0.55	0.20	0.05	0.05	0.03	0.05	N.D.	0.03	0.15	0.19	0.08	0.12		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	0.15	0.76	0.20	0.08	0.06	0.05	0.09	0.01	0.03	0.17	0.19	0.16	0.76		
	Min-2w	0.06	0.34	0.20	0.03	0.04	0.01	0.01	N.D.	0.03	0.12	0.18	N.D.	N.D.		
Thai Land	Bangkok	Mean	0.1	0.4	0.1	0.20	0.68	0.03	0.31	0.32	0.07	0.08	0.06	0.06	0.19	
		%	100	100	63	100	100	100	100	100	100	100	100	100	97	
		Max-10d	0.25	0.69	0.18	0.33	1.48	0.03	0.73	0.46	0.09	0.17	0.10	0.12	1.48	
		Min-10d	N.D.	0.08	N.D.	0.05	0.06	0.03	0.06	0.08	0.04	0.01	0.04	0.01	N.D.	
	Patumthani	Mean	N.D.	N.D.	N.D.	0.03	0.03	0.11	0.39	0.03	0.02	0.40	0.03	0.02	0.09	
		%	100	100	100	100	100	100	100	100	100	100	100	100	97	
		Max-10d	N.D.	0.01	N.D.	0.06	0.06	0.13	0.46	0.10	0.06	1.19	0.06	0.04	1.19	
		Min-10d	N.D.	N.D.	N.D.	N.D.	N.D.	0.09	0.26	N.D.	N.D.	N.D.	0.02	N.D.	N.D.	
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	0.07	-	-	-	-	0.16	-	-	-	N.D.	0.08	
		%	0	0	52	0	0	0	0	57	0	0	0	59	14	
		Max-2w	-	-	-	-	-	-	-	-	-	-	-	-	0.16	
		Min-2w	-	-	-	-	-	-	-	-	-	-	-	-	N.D.	
Chiangmai (Mae Hia)	Mean	0.75	0.03	0.02	0.23	0.19	0.03	0.47	1.44	0.02	0.02	0.33	N.D.	0.29		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-10d	0.95	0.05	0.06	0.59	0.30	0.10	0.94	4.31	0.05	0.04	0.96	N.D.	4.31		
	Min-10d	0.55	N.D.	N.D.	0.05	0.07	N.D.	0.10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		
Nakhon Ratchasima	Mean	N.D.	N.D.	0.02	0.05	0.14	0.06	0.52	0.28	0.06	N.D.	0.01	N.D.	0.09		
	%	100	100	62	100	100	100	36	100	58	100	100	66	88		
	Max-10d	N.D.	N.D.	0.03	0.12	0.18	0.09	-	0.35	0.07	N.D.	0.02	-	0.52		
	Min-10d	N.D.	N.D.	N.D.	N.D.	0.11	N.D.	-	0.21	0.05	N.D.	N.D.	-	N.D.		
Viet Nam	Ha Noi	Mean	8.28	7.36	4.14	2.69	2.07	2.03	1.09	0.98	1.81	1.19	1.99	1.50	2.90	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	16.14	12.91	7.87	4.66	2.93	2.53	1.46	1.87	2.94	1.46	2.74	2.20	16.14	
		Min-w	0.75	2.85	2.15	1.88	1.31	1.58	0.66	0.48	1.22	1.00	0.99	0.77	0.48	
	Hoa Binh	Mean	1.58	3.94	0.76	0.52	0.56	0.26	0.33	0.40	0.68	0.32	0.41	0.42	0.65	
		%	100	33	100	100	100	100	100	100	100	100	100	100	96	
		Max-w	2.82	-	2.14	1.37	0.71	0.54	0.61	0.98	1.67	0.47	0.57	0.52	3.94	
		Min-w	0.43	-	0.27	0.21	0.43	0.05	0.20	0.13	0.23	0.11	0.20	0.32	0.05	

Mean : monthly or annual arithmetic average value
 Max-d : maximum value of daily data
 Min-d : minimum value of daily data
 Max-10d : maximum value of 10-day interval data
 Min-10d : minimum value of 10-day interval data
 Max-w : maximum value of weekly data
 Min-w : minimum value of weekly data
 Max-2w : maximum value of biweekly data
 Min-2w : minimum value of biweekly data
 Max-* : maximum value of flexible interval data
 Min-* : minimum value of flexible interval data
 % : monthly or annual percentage of period of available data

Table 4.16 Particulate matter component: NH₄⁺

Unit : µg/m ³			2006													Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Indonesia	Serpong	Mean	0.06	N.D.	0.03	N.D.	0.10	0.02	0.09	0.38	0.11	0.20	N.D.	N.D.	0.08	
		%	100	33	100	100	100	100	100	100	100	100	35	58	100	88
		Max-2w	0.08	-	0.06	N.D.	0.13	0.02	0.10	0.77	0.22	-	-	-	N.D.	0.77
		Min-2w	0.05	-	N.D.	N.D.	0.08	N.D.	0.09	N.D.	N.D.	-	-	-	N.D.	N.D.
Japan	Rishiri	Mean	0.27	0.54	0.43	0.28	0.50	0.29	0.51	0.65	0.25	0.34	0.41	0.43	0.41	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.33	0.76	0.50	0.32	0.97	0.31	0.63	1.04	0.32	0.56	0.51	0.47	1.04	
		Min-2w	0.21	0.32	0.36	0.25	0.25	0.28	0.39	0.26	0.19	0.16	0.31	0.40	0.16	
	Tappi	Mean	0.36	0.79	0.97	0.80	0.38	0.75	0.58	1.07	0.40	0.47	0.54	0.42	0.63	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.36	0.94	0.99	0.86	0.42	0.96	0.65	1.70	0.57	0.54	0.74	0.54	1.70	
		Min-2w	0.36	0.63	0.96	0.75	0.33	0.54	0.52	0.43	0.24	0.41	0.34	0.29	0.24	
	Sado-seki	Mean	0.32	0.24	0.75	0.33	0.63	0.92	0.39	0.87	0.29	0.73	0.10	0.22	0.48	
		%	100	100	100	100	100	50	100	100	100	100	100	100	96	
		Max-2w	0.34	0.28	0.77	0.55	0.82	-	0.52	1.31	0.31	1.10	0.11	0.22	1.31	
		Min-2w	0.31	0.19	0.73	0.11	0.25	-	0.27	0.43	0.28	0.17	0.09	0.21	0.09	
	Happo	Mean	0.19	0.40	0.68	0.29	0.63	1.64	0.64	1.41	0.46	0.91	0.25	0.28	0.64	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.34	0.41	0.77	0.42	0.69	1.77	0.98	1.59	0.51	0.96	0.29	0.29	1.77	
		Min-2w	0.09	0.39	0.58	0.17	0.58	1.52	0.29	1.10	0.42	0.86	0.21	0.27	0.09	
	Ijira	Mean	0.38	0.99	1.59	0.93	1.80	2.68	0.90	2.05	1.19	1.97	0.80	0.88	1.39	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.72	1.04	2.08	1.20	3.18	3.34	1.02	2.82	1.69	2.95	0.82	0.94	3.34	
		Min-2w	0.03	0.94	1.10	0.66	0.98	2.02	0.78	1.27	0.69	0.84	0.77	0.82	0.03	
	Oki	Mean	0.57	1.35	1.38	1.05	1.69	2.32	0.68	1.83	0.41	1.39	1.00	0.70	1.19	
		%	100	100	100	100	100	100	100	100	100	52	85	100	93	
		Max-2w	0.64	1.45	1.44	1.33	2.55	2.63	0.88	2.72	0.45	-	1.46	1.00	2.72	
		Min-2w	0.50	1.29	1.33	0.77	0.97	2.01	0.49	0.95	0.36	-	0.54	0.32	0.32	
	Banryu	Mean	1.44	1.53	2.10	0.87	1.64	2.44	0.83	1.45	0.59	2.11	1.13	1.61	1.51	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	1.86	1.79	2.54	0.99	2.39	2.51	1.00	2.12	0.99	3.87	1.54	1.63	3.87	
		Min-2w	1.02	1.27	1.66	0.75	0.75	2.37	0.66	0.78	0.20	0.76	0.72	1.60	0.20	
	Yusuhara	Mean	1.29	1.12	1.99	0.91	1.14	2.24	0.82	0.90	0.87	2.10	1.20	1.16	1.41	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	1.60	1.35	2.28	1.32	1.68	3.25	1.15	0.90	0.87	3.18	1.97	1.28	3.25	
		Min-2w	0.99	0.89	1.70	0.50	0.60	1.53	0.49	0.90	0.87	1.02	0.77	1.05	0.49	
	Hedo	Mean	1.02	0.94	0.94	1.04	0.99	0.28	0.18	0.61	1.08	0.88	0.84	0.64	0.80	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	1.19	1.08	1.02	1.18	1.24	0.32	0.20	0.95	1.40	1.01	0.93	0.71	1.40	
		Min-2w	0.86	0.81	0.86	0.89	0.81	0.23	0.16	0.27	0.76	0.66	0.75	0.57	0.16	
	Ogasawara	Mean	0.15	0.29	0.19	0.30	0.11	0.11	0.06	0.05	0.16	0.12	0.16	0.32	0.17	
		%	100	100	100	100	100	100	100	100	80	50	100	61	90	
		Max-w	0.50	0.47	0.21	0.60	0.19	0.18	0.17	0.09	0.34	0.16	0.43	0.42	0.60	
		Min-w	N.D.	0.12	0.18	0.01	0.01	0.06	N.D.	0.02	N.D.	0.09	N.D.	0.16	N.D.	
	Malaysia	TanahRata	Mean	0.24	0.11	0.39	0.28	0.25	0.21	0.54	0.80	0.50	0.87	0.32	0.26	0.40
			%	100	100	100	100	100	100	100	100	100	100	100	100	100
			Max-w	0.47	0.26	0.63	0.54	0.42	0.40	1.06	1.28	0.75	1.83	0.76	0.31	1.83
			Min-w	0.05	0.03	0.27	0.02	0.14	0.10	0.33	0.25	0.23	0.06	0.05	0.24	0.02
		Petaling Jaya	Mean	0.54	0.17	0.86	0.61	0.82	1.38	1.30	0.46	0.13	1.35	-	-	0.76
			%	100	100	100	100	100	100	100	100	100	100	0	0	83
			Max-w	1.72	0.35	1.64	2.49	2.22	2.18	2.42	1.53	0.24	3.26	-	-	3.26
			Min-w	0.01	0.06	0.15	0.03	0.07	0.47	0.38	N.D.	N.D.	0.21	-	-	N.D.
Danum Valley		Mean	0.05	N.D.	N.D.	0.20	0.11	0.03	N.D.	0.15	N.D.	0.39	0.05	0.04	0.10	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.10	N.D.	N.D.	0.24	0.29	0.05	N.D.	0.21	N.D.	0.82	0.06	0.06	0.82	
		Min-w	N.D.	N.D.	N.D.	0.16	N.D.	N.D.	N.D.	0.10	N.D.	0.05	0.04	0.02	N.D.	
Mongolia	Ulaanbaatar	Mean	-	-	-	0.81	0.51	-	-	-	1.00	0.59	1.13	5.48	1.95	
		%	0	0	0	100	45	0	0	0	83	90	47	90	57	
		Max-w	-	-	-	1.65	0.80	-	-	-	2.44	1.00	1.22	7.32	7.32	
		Min-w	-	-	-	0.16	0.21	-	-	-	N.D.	0.24	1.04	4.20	N.D.	
	Terelj	Mean	0.39	0.41	0.48	0.62	0.84	0.26	0.24	0.18	0.92	0.18	0.40	0.20	0.43	
		%	100	100	100	100	89	85	100	100	100	100	100	100	96	
		Max-2w	0.43	0.52	0.70	0.71	1.05	0.27	0.24	0.25	1.49	0.24	0.62	0.28	1.49	
		Min-2w	0.34	0.29	0.17	0.53	0.62	0.24	0.23	0.10	0.34	0.12	0.16	0.11	0.10	
Philippines	Metro Manila	Mean	0.02	0.02	0.04	0.06	0.14	0.10	0.10	-	1.22	1.25	N.D.	N.D.	0.25	
		%	94	100	100	67	100	100	80	0	76	52	100	100	74	
		Max-w	0.04	0.04	0.17	-	0.26	0.14	0.16	-	2.75	1.48	N.D.	N.D.	2.75	
		Min-w	N.D.	N.D.	N.D.	-	0.02	0.03	N.D.	-	N.D.	1.03	N.D.	N.D.	N.D.	
	Los Banos	Mean	0.05	0.05	0.03	0.34	0.19	0.37	0.12	0.85	0.69	0.36	0.12	0.22	0.23	
		%	100	100	80	100	100	25	20	33	40	100	45	100	83	
		Max-w	0.11	0.10	0.12	0.54	0.44	-	-	-	0.84	0.82	0.23	0.23	0.85	
		Min-w	N.D.	N.D.	N.D.	0.06	N.D.	-	-	-	0.54	N.D.	N.D.	0.21	N.D.	
	Mt. Sto. Tomas	Mean	-	-	-	-	-	-	-	-	-	-	0.01	N.D.	0.05	0.03
		%	0	0	0	0	0	0	0	0	0	84	78	100	35	
		Max-w	-	-	-	-	-	-	-	-	-	0.02	N.D.	0.13	0.13	
		Min-w	-	-	-	-	-	-	-	-	-	N.D.	N.D.	N.D.	N.D.	

Table 4.16 Particulate matter component: NH₄⁺

Unit : µg/m ³			2006													Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Republic of Korea	Kanghwa	Mean	2.17	1.43	0.58	1.20	1.74	2.53	0.30	0.62	0.63	2.04	1.97	2.03	1.38	
		%	6	18	16	17	16	17	16	16	17	16	13	13	15	
		Max-d	3.51	2.67	0.76	1.72	3.60	4.01	0.53	2.29	1.09	3.36	4.87	3.28	4.87	
		Min-d	0.83	0.07	0.21	0.67	0.19	0.85	0.09	N.D.	0.32	0.35	0.34	0.89	N.D.	
	Cheju	Mean	2.36	2.64	3.41	2.43	2.56	1.92	1.37	2.05	0.97	3.65	2.49	2.24	2.39	
		%	19	14	16	17	19	10	16	16	17	16	17	16	16	
		Max-d	4.86	4.32	9.42	4.56	4.31	5.35	3.07	4.54	1.76	6.96	5.44	4.25	9.42	
		Min-d	0.85	0.51	0.56	0.99	1.29	0.96	0.40	0.19	0.43	1.58	0.29	0.87	0.19	
	Imsil	Mean	6.62	4.90	4.13	3.55	6.85	3.95	1.36	3.14	1.80	1.40	3.39	2.82	3.67	
		%	13	14	16	17	16	17	13	16	13	16	17	16	15	
		Max-d	11.40	8.80	7.84	7.63	11.87	6.48	3.42	6.05	5.58	2.33	5.29	5.52	11.87	
		Min-d	0.99	1.23	1.11	1.89	3.57	1.72	0.01	1.50	N.D.	0.62	1.81	1.75	N.D.	
Russia	Mondy	Mean	0.13	0.06	0.05	0.15	0.32	0.09	0.07	0.07	N.D.	0.02	0.08	0.04	0.09	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.20	0.08	0.05	0.2	0.6	0.1	0.07	0.12	0.01	0.02	0.12	0.05	0.55	
		Min-2w	0.06	0.04	0.05	0.1	0.1	0.1	0.06	0.03	N.D.	0.01	0.04	0.03	N.D.	
	Listvianka	Mean	0.16	0.19	0.07	0.27	0.58	0.23	0.35	0.30	0.46	0.20	0.30	0.11	0.27	
		%	92	100	100	100	100	100	100	100	100	100	100	100	98	
		Max*	0.21	0.39	0.27	0.60	1.23	0.31	0.48	0.32	1.09	0.27	0.61	0.21	1.23	
		Min*	0.10	0.10	N.D.	0.03	0.23	0.19	0.22	0.27	0.10	0.14	0.04	0.03	N.D.	
	Irkutsk	Mean	1.32	0.48	0.85	0.19	0.44	0.12	0.32	0.12	0.15	0.29	0.53	0.82	0.46	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	1.84	0.94	1.79	0.32	0.92	0.19	0.52	0.33	0.29	0.70	0.79	2.24	2.24	
		Min-w	0.88	0.19	0.18	0.03	0.08	0.06	0.19	0.01	0.04	0.05	0.15	0.07	0.01	
	Primorskaya	Mean	2.25	1.89	1.15	0.69	0.94	1.17	0.82	1.62	0.68	1.18	1.29	2.21	1.32	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	2.73	1.94	1.29	0.77	1.09	1.51	1.00	2.48	0.91	1.25	1.60	2.46	2.73	
		Min-2w	1.77	1.83	1.01	0.61	0.79	0.84	0.64	0.76	0.44	1.10	0.98	1.96	0.44	
	Thai Land	Bangkok	Mean	2.3	4.4	0.5	0.29	0.71	N.D.	0.10	1.44	0.51	2.50	2.75	1.06	1.30
			%	100	100	63	100	100	100	100	100	100	100	100	100	97
			Max-10d	4.08	8.42	1.57	0.88	1.31	N.D.	0.26	4.16	0.86	5.98	4.59	2.73	8.42
			Min-10d	N.D.	0.32	N.D.	N.D.	0.37	N.D.	N.D.	N.D.	0.32	0.22	N.D.	0.15	N.D.
Patumthani		Mean	1.11	0.83	1.81	0.71	0.61	0.22	0.55	0.56	1.12	2.06	1.98	1.84	1.13	
		%	100	100	100	100	100	100	100	100	100	100	100	100	97	
		Max-10d	1.13	0.86	2.07	1.23	1.41	0.48	0.64	0.85	2.29	4.85	3.46	3.28	4.85	
		Min-10d	1.09	0.80	1.57	N.D.	0.05	N.D.	0.48	0.17	0.49	0.40	0.83	0.81	N.D.	
Khanchanaburi (Vachiralongkorn Dam)		Mean	-	-	0.40	-	-	-	-	0.20	-	-	-	1.35	0.65	
		%	0	0	52	0	0	0	0	57	0	0	0	59	14	
		Max-2w	-	-	-	-	-	-	-	-	-	-	-	-	1.35	
		Min-2w	-	-	-	-	-	-	-	-	-	-	-	-	0.20	
Chiangmai (Mae Hia)		Mean	0.45	1.02	1.19	0.64	0.15	0.11	0.10	0.12	0.51	0.85	1.22	1.75	0.67	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-10d	0.58	1.37	2.34	1.34	0.27	0.19	0.15	0.27	0.99	1.11	2.42	2.96	2.96	
		Min-10d	0.18	0.65	0.28	0.17	0.02	N.D.	0.06	N.D.	0.11	0.39	0.17	0.11	N.D.	
Nakhon Ratchasima		Mean	2.41	0.37	0.49	0.22	1.85	N.D.	0.03	0.04	0.32	1.75	1.66	N.D.	0.86	
		%	100	100	62	100	100	100	36	100	58	100	100	66	88	
		Max-10d	2.99	0.43	0.51	0.34	4.23	N.D.	-	0.09	0.46	4.32	1.91	-	4.32	
		Min-10d	1.83	0.30	0.47	N.D.	0.32	N.D.	-	N.D.	0.19	0.02	1.38	-	N.D.	
Viet Nam	Ha Noi	Mean	4.48	14.17	8.39	3.38	2.53	1.34	0.93	0.65	0.93	0.55	0.99	1.61	3.18	
		%	100	100	100	100	100	100	100	100	100	100	100	100	98	
		Max-w	19.95	28.92	9.50	4.50	3.39	2.40	1.32	1.20	1.38	0.70	1.32	2.85	28.92	
		Min-w	0.27	2.09	7.34	2.41	1.96	0.41	0.67	0.21	0.47	0.39	0.30	0.47	0.21	
	Hoa Binh	Mean	4.42	9.45	1.86	0.98	1.89	1.19	0.47	0.80	3.20	2.13	3.53	2.53	2.29	
		%	100	33	100	100	100	100	100	100	100	100	100	100	96	
		Max-w	7.92	-	3.64	1.40	3.29	1.96	0.87	1.80	6.65	4.10	6.55	5.30	9.45	
		Min-w	0.96	-	0.87	0.55	0.83	0.29	0.18	0.12	0.62	1.33	1.09	0.07	0.07	

Mean : monthly or annual arithmetic average value
 Max-d : maximum value of daily data
 Min-d : minimum value of daily data
 Max-10d : maximum value of 10-day interval data
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 Max-w : maximum value of weekly data
 Min-w : minimum value of weekly data
 Max-2w : maximum value of biweekly data
 Min-2w : minimum value of biweekly data
 Max-* : maximum value of flexible interval data
 Min-* : minimum value of flexible interval data
 % : monthly or annual percentage of period of available data

Table 4.17 Particulate matter component: Na⁺

Unit : µg/m ³		2006														Annual
Country	Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
Indonesia	Serpong	Mean	0.60	0.34	0.04	0.08	0.03	0.06	0.56	N.D.	0.99	1.24	0.04	0.31	0.32	
		%	100	33	100	100	100	100	100	100	100	35	58	100	88	
		Max-2w	0.63	-	0.05	0.09	0.07	0.16	0.66	N.D.	1.19	-	-	0.55	1.24	
		Min-2w	0.56	-	0.04	0.06	N.D.	N.D.	0.46	N.D.	0.79	-	-	0.06	N.D.	
Japan	Rishiri	Mean	0.94	2.14	2.07	1.28	1.68	0.44	0.80	0.69	1.75	3.08	2.25	1.62	1.62	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	1.26	3.45	2.54	1.33	2.47	0.49	1.02	0.86	1.96	4.81	2.94	1.78	4.81	
		Min-2w	0.61	0.82	1.61	1.23	0.92	0.39	0.58	0.51	1.55	1.53	1.56	1.46	0.39	
	Tappi	Mean	3.90	9.71	7.73	10.13	2.33	1.01	0.88	0.78	2.19	2.98	8.19	3.38	5.23	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	4.51	10.04	10.83	15.45	4.81	1.27	1.07	0.84	3.31	3.23	10.89	3.85	15.45	
		Min-2w	3.28	9.38	4.63	4.81	0.56	0.76	0.69	0.72	1.06	2.73	3.78	2.91	0.56	
	Sado-seki	Mean	3.62	2.63	3.38	3.18	1.50	0.48	0.58	0.56	2.40	2.94	3.20	5.04	2.52	
		%	100	100	100	100	100	50	100	100	100	100	100	100	96	
		Max-2w	4.35	3.11	4.32	4.99	3.36	-	0.86	0.73	2.98	4.12	3.60	8.97	8.97	
		Min-2w	2.89	2.15	2.44	1.38	0.53	-	0.30	0.39	1.82	2.19	2.80	1.11	0.30	
	Happo	Mean	0.05	0.04	0.21	0.22	0.06	0.03	0.01	0.09	0.04	0.14	0.06	0.05	0.08	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.07	0.06	0.23	0.35	0.07	0.06	0.02	0.12	0.06	0.16	0.06	0.05	0.35	
		Min-2w	0.03	0.03	0.20	0.09	0.05	N.D.	N.D.	0.05	0.02	0.11	0.05	0.05	N.D.	
	Ijira	Mean	0.18	0.18	0.34	0.40	0.36	0.14	0.13	0.36	0.25	0.34	0.23	0.19	0.26	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.34	0.20	0.48	0.43	0.53	0.19	0.17	0.44	0.33	0.39	0.25	0.26	0.53	
		Min-2w	0.03	0.15	0.20	0.38	0.19	0.08	0.08	0.29	0.16	0.27	0.20	0.12	0.03	
	Oki	Mean	2.80	2.82	3.28	3.41	1.52	0.96	0.93	0.88	2.20	2.33	3.54	2.86	2.26	
		%	100	100	100	100	100	100	100	100	100	52	85	100	93	
		Max-2w	3.00	3.09	3.44	3.44	2.42	1.05	1.21	1.28	2.44	-	4.08	4.88	4.88	
		Min-2w	2.61	2.56	3.13	3.38	0.77	0.88	0.66	0.48	1.97	-	3.00	0.28	0.28	
	Banryu	Mean	1.46	2.00	1.89	2.25	1.28	0.55	0.80	1.07	2.16	1.72	3.96	1.18	1.68	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	1.51	2.13	2.03	2.36	1.86	0.56	1.02	1.69	2.46	2.69	6.16	1.19	6.16	
		Min-2w	1.42	1.88	1.74	2.15	0.96	0.54	0.59	0.45	1.86	0.90	1.76	1.17	0.45	
	Yusuhara	Mean	0.32	0.45	0.48	0.65	0.49	0.24	0.48	0.24	0.27	0.68	0.51	0.37	0.45	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.39	0.55	0.50	0.75	0.69	0.32	0.71	0.28	0.37	0.77	0.61	0.43	0.77	
		Min-2w	0.26	0.35	0.46	0.54	0.29	0.19	0.24	0.20	0.18	0.58	0.39	0.32	0.18	
	Hedo	Mean	5.24	5.90	5.84	5.14	3.35	2.17	4.13	3.34	4.83	6.53	5.03	6.56	4.85	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	5.52	6.71	5.85	5.14	3.62	2.96	6.26	3.76	7.05	7.10	5.08	7.08	7.10	
		Min-2w	4.95	5.10	5.84	5.13	3.16	1.39	1.99	2.93	2.61	5.73	4.98	6.04	1.39	
	Ogasawara	Mean	1.19	2.69	1.45	2.48	1.74	0.99	0.71	1.98	1.27	2.64	1.54	3.62	1.78	
		%	100	100	100	100	100	100	100	100	80	50	100	61	90	
		Max-w	3.83	2.94	2.96	5.57	3.93	1.93	2.06	3.33	1.96	2.84	3.37	5.24	5.57	
		Min-w	0.05	2.20	0.76	0.02	0.18	0.06	N.D.	0.06	0.02	2.44	0.11	2.27	N.D.	
	Malaysia	TanahRata	Mean	0.06	0.20	0.08	0.03	0.04	0.05	0.21	0.25	0.10	0.08	0.07	0.32	0.13
			%	100	100	100	100	100	100	100	100	100	100	100	100	100
			Max-w	0.08	0.47	0.16	0.06	0.08	0.09	0.42	0.47	0.21	0.21	0.09	0.45	0.47
			Min-w	0.04	N.D.	0.02	N.D.	0.02	N.D.	0.07	0.15	0.03	N.D.	0.03	0.26	N.D.
		Petaling Jaya	Mean	0.17	0.06	0.25	0.06	0.22	0.27	0.70	0.18	0.02	0.09	-	-	0.21
			%	100	100	100	100	100	100	100	100	100	100	0	0	83
			Max-w	0.51	0.17	0.86	0.25	0.50	0.35	1.96	0.54	0.09	0.17	-	-	1.96
			Min-w	N.D.	0.01	0.01	N.D.	N.D.	0.06	0.03	N.D.	N.D.	0.02	-	-	N.D.
Danum Valley		Mean	0.35	N.D.	0.09	0.24	0.05	0.02	N.D.	0.31	N.D.	0.06	0.30	0.24	0.13	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.69	N.D.	0.17	0.33	0.09	0.04	N.D.	0.31	N.D.	0.10	0.50	0.46	0.69	
		Min-w	N.D.	N.D.	N.D.	0.15	0.02	N.D.	N.D.	0.30	N.D.	0.01	0.10	0.01	N.D.	
Mongolia	Ulaanbaatar	Mean	-	-	-	0.38	0.49	-	-	-	0.39	0.29	0.13	0.48	0.38	
		%	0	0	0	100	45	0	0	0	83	90	47	90	57	
		Max-w	-	-	-	0.60	0.74	-	-	-	0.64	0.41	0.14	0.60	0.74	
		Min-w	-	-	-	0.22	0.23	-	-	-	N.D.	0.10	0.12	0.36	N.D.	
	Terelj	Mean	0.08	0.19	0.07	0.22	0.14	0.09	0.12	0.08	0.11	0.09	0.09	0.08	0.11	
		%	100	100	100	100	89	85	100	100	100	100	100	100	96	
		Max-2w	0.08	0.29	0.08	0.29	0.17	0.09	0.16	0.08	0.11	0.10	0.11	0.09	0.29	
		Min-2w	0.07	0.08	0.06	0.14	0.11	0.08	0.08	0.07	0.11	0.07	0.08	0.07	0.06	
Philippines	Metro Manila	Mean	0.56	1.00	0.51	0.18	0.39	0.15	0.65	-	0.79	1.50	N.D.	N.D.	0.61	
		%	94	100	100	67	100	100	80	0	76	52	100	100	74	
		Max-w	0.83	1.12	0.77	-	0.47	0.22	1.01	-	1.12	2.25	N.D.	N.D.	2.25	
		Min-w	0.29	0.75	0.02	-	0.30	0.11	0.39	-	0.55	0.75	N.D.	N.D.	N.D.	
	Los Banos	Mean	0.51	0.87	0.57	0.48	0.22	0.27	0.25	0.38	0.39	0.73	0.75	2.24	0.70	
		%	100	100	80	100	100	25	20	33	40	100	45	100	83	
		Max-w	0.68	1.02	0.71	0.65	0.51	-	-	-	0.50	1.80	1.37	2.43	2.43	
		Min-w	0.26	0.73	0.41	0.18	N.D.	-	-	-	0.29	N.D.	0.12	2.11	N.D.	
	Mt. Sto. Tomas	Mean	-	-	-	-	-	-	-	-	-	-	0.02	0.05	0.06	0.05
		%	0	0	0	0	0	0	0	0	0	84	78	100	35	
		Max-w	-	-	-	-	-	-	-	-	-	0.04	0.08	0.22	0.22	
		Min-w	-	-	-	-	-	-	-	-	-	N.D.	0.02	N.D.	N.D.	

Table 4.17 Particulate matter component: Na⁺

Unit : µg/m ³			2006													Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Republic of Korea	Kanghwa	Mean	0.18	0.32	0.19	0.27	0.17	0.25	0.34	0.18	0.19	0.24	0.29	0.34	0.25	
		%	6	18	16	17	16	17	16	16	17	16	16	13	13	15
		Max-d	0.26	0.42	0.47	0.34	0.25	0.32	0.71	0.47	0.30	0.30	0.30	0.51	0.55	0.71
		Min-d	0.09	0.17	0.09	0.17	0.09	0.21	0.07	0.02	0.12	0.18	0.14	0.18	0.18	0.02
	Cheju	Mean	0.34	0.43	0.40	0.85	0.28	0.30	0.37	0.23	0.17	0.43	0.50	0.45	0.40	
		%	19	14	16	17	19	10	16	16	17	16	17	16	16	
		Max-d	0.43	0.72	0.51	2.03	0.34	0.65	0.58	0.30	0.21	0.55	0.78	0.56	2.03	
		Min-d	0.24	0.14	0.16	0.48	0.16	0.17	0.14	0.16	0.12	0.33	0.16	0.30	0.12	
	Imsil	Mean	0.49	0.37	0.49	0.62	0.43	0.23	0.35	0.16	0.21	0.30	0.46	0.49	0.39	
		%	13	14	16	17	16	17	13	16	13	16	17	16	15	
		Max-d	0.86	0.45	0.72	0.86	0.60	0.33	0.65	0.18	0.39	0.44	0.84	0.91	0.91	
		Min-d	0.18	0.23	0.34	0.38	0.25	0.17	0.10	0.14	N.D.	0.18	0.24	0.19	N.D.	
Russia	Mondy	Mean	0.03	0.05	0.02	0.03	0.02	0.06	0.17	0.02	N.D.	N.D.	N.D.	0.03	0.04	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.03	0.06	0.02	0.0	0.0	0.1	0.23	0.02	N.D.	N.D.	0.02	0.04	0.23	
		Min-2w	0.02	0.03	0.01	0.0	0.0	N.D.	0.11	0.02	N.D.	N.D.	N.D.	0.03	N.D.	
	Listvianka	Mean	0.12	0.08	0.05	0.07	0.08	0.07	0.04	0.06	0.04	0.04	0.06	0.06	0.06	
		%	92	100	100	100	100	100	100	100	100	100	100	100	98	
		Max*	0.23	0.11	0.08	0.09	0.12	0.08	0.06	0.09	0.05	0.10	0.09	0.09	0.23	
		Min*	0.02	0.07	0.03	0.05	0.05	0.05	0.03	0.04	0.03	N.D.	0.01	0.03	N.D.	
	Irkutsk	Mean	0.47	0.18	0.34	0.15	0.11	0.06	0.06	0.03	0.03	0.07	0.31	0.23	0.17	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	1.47	0.30	0.44	0.22	0.18	0.06	0.09	0.06	0.07	0.13	0.54	0.49	1.47	
		Min-w	0.12	0.08	0.16	0.08	0.06	0.06	0.04	N.D.	N.D.	N.D.	0.05	N.D.	N.D.	
	Primorskaya	Mean	0.17	0.54	0.27	0.32	0.30	0.17	0.09	0.07	0.16	0.20	0.18	0.22	0.22	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.17	0.78	0.28	0.52	0.31	0.20	0.09	0.09	0.24	0.21	0.22	0.23	0.78	
		Min-2w	0.16	0.30	0.26	0.11	0.29	0.13	0.09	0.06	0.09	0.18	0.15	0.21	0.06	
Thai Land	Bangkok	Mean	1.0	4.5	0.4	0.09	0.70	0.04	0.28	0.42	0.28	0.52	0.73	0.52	0.68	
		%	100	100	63	100	100	100	100	100	100	100	100	100	97	
		Max-10d	1.79	8.92	0.98	0.26	1.15	0.10	0.69	0.63	0.33	0.89	1.13	1.24	8.92	
		Min-10d	N.D.	0.14	0.09	N.D.	0.20	N.D.	0.03	0.02	0.26	0.27	0.52	0.01	N.D.	
	Patumthani	Mean	0.17	0.33	0.43	0.23	0.10	N.D.	0.41	0.04	N.D.	0.04	0.15	0.18	0.17	
		%	100	100	100	100	100	100	100	100	100	100	100	100	97	
		Max-10d	0.26	0.47	0.53	0.30	0.29	N.D.	0.48	0.13	N.D.	0.13	0.39	0.31	0.53	
		Min-10d	0.07	0.20	0.24	0.12	N.D.	N.D.	0.31	N.D.	N.D.	N.D.	N.D.	0.02	N.D.	
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	0.14	-	-	-	-	0.16	-	-	-	0.19	0.17	
		%	0	0	52	0	0	0	0	57	0	0	0	59	14	
		Max-2w	-	-	-	-	-	-	-	-	-	-	-	-	0.19	
		Min-2w	-	-	-	-	-	-	-	-	-	-	-	-	0.14	
	Chiangmai (Mae Hia)	Mean	N.D.	0.21	0.28	0.36	N.D.	0.03	0.30	0.77	0.09	0.41	0.03	0.09	0.21	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-10d	0.02	0.21	0.61	0.70	N.D.	0.09	0.53	1.28	0.16	0.77	0.08	0.19	1.28	
		Min-10d	N.D.	0.20	N.D.	0.11	N.D.	N.D.	0.10	0.10	0.03	0.22	N.D.	N.D.	N.D.	
Nakhon Ratchasima	Mean	0.15	0.07	0.77	0.06	0.51	0.17	0.68	0.53	0.24	0.28	0.31	N.D.	0.34		
	%	100	100	62	100	100	100	36	100	58	100	100	66	88		
	Max-10d	0.18	0.09	0.88	0.19	0.76	0.29	-	0.69	0.28	0.50	0.34	-	0.88		
	Min-10d	0.12	0.05	0.67	N.D.	0.32	0.08	-	0.37	0.19	0.02	0.29	-	N.D.		
Viet Nam	Ha Noi	Mean	5.29	3.57	1.94	2.44	2.23	1.61	1.24	0.95	1.44	0.94	1.46	0.88	1.99	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	11.50	5.38	4.16	3.04	3.03	2.21	2.74	1.42	2.39	1.14	1.96	1.68	11.50	
		Min-w	1.08	1.10	0.86	1.95	1.28	1.01	0.46	0.61	0.89	0.73	0.78	0.61	0.46	
	Hoa Binh	Mean	0.98	2.02	0.56	0.42	0.40	0.43	0.25	0.40	0.56	0.32	0.79	0.25	0.52	
		%	100	33	100	100	100	100	100	100	100	100	100	100	96	
		Max-w	2.38	-	1.75	1.09	0.61	1.43	0.51	0.82	1.28	0.49	1.49	0.31	2.38	
		Min-w	0.12	-	0.15	0.17	0.28	0.05	0.13	0.08	0.19	0.11	0.41	0.16	0.05	

Mean : monthly or annual arithmetic average value
 Max-d : maximum value of daily data
 Min-d : minimum value of daily data
 Max-10d : maximum value of 10-day interval data
 Min-10d : minimum value of 10-day interval data
 Max-w : maximum value of weekly data
 Min-w : minimum value of weekly data
 Max-2w : maximum value of biweekly data
 Min-2w : minimum value of biweekly data
 Max-* : maximum value of flexible interval data
 Min-* : minimum value of flexible interval data
 % : monthly or annual percentage of period of available data

Table 4.18 Particulate matter component: K⁺

Unit : $\mu\text{g}/\text{m}^3$		2006														Annual
Country	Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
Indonesia	Serpong	Mean	0.32	N.D.	0.07	N.D.	0.02	0.06	0.04	0.07	0.20	0.36	0.12	0.15	0.11	
		%	100	33	100	100	100	100	100	100	100	35	58	100	88	
		Max-2w	0.44	-	0.09	N.D.	0.04	0.12	0.07	0.09	0.28	-	-	0.30	0.44	
		Min-2w	0.21	-	0.04	N.D.	N.D.	N.D.	N.D.	0.05	0.12	-	-	N.D.	N.D.	
Japan	Rishiri	Mean	0.08	0.17	0.16	0.08	0.18	0.16	0.12	0.12	0.13	0.23	0.16	0.14	0.15	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.08	0.26	0.17	0.09	0.25	0.17	0.15	0.12	0.13	0.40	0.22	0.16	0.40	
		Min-2w	0.08	0.09	0.16	0.08	0.11	0.14	0.09	0.12	0.13	0.11	0.10	0.12	0.08	
	Tappi	Mean	0.17	0.47	0.44	0.49	0.12	0.12	0.16	0.06	0.12	0.19	0.41	0.20	0.28	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.23	0.48	0.60	0.67	0.21	0.15	0.23	0.08	0.17	0.21	0.46	0.26	0.67	
		Min-2w	0.12	0.45	0.28	0.31	0.05	0.08	0.08	0.04	0.07	0.17	0.32	0.15	0.04	
	Sado-seki	Mean	0.16	0.11	0.23	0.15	0.14	0.14	0.05	0.06	0.14	0.24	0.14	0.17	0.15	
		%	100	100	100	100	100	50	100	100	100	100	100	100	96	
		Max-2w	0.19	0.11	0.28	0.22	0.26	-	0.05	0.07	0.17	0.29	0.14	0.26	0.29	
		Min-2w	0.14	0.10	0.19	0.08	0.04	-	0.04	0.04	0.11	0.17	0.14	0.08	0.04	
	Happo	Mean	0.02	0.03	0.13	0.09	0.06	0.17	0.02	0.05	0.02	0.09	0.02	0.03	0.06	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.04	0.04	0.17	0.12	0.07	0.17	0.04	0.06	0.03	0.09	0.02	0.03	0.17	
		Min-2w	N.D.	0.03	0.09	0.06	0.06	0.16	N.D.	0.04	0.01	0.09	0.02	0.03	N.D.	
	Ijira	Mean	0.18	0.18	0.34	0.40	0.36	0.14	0.13	0.36	0.25	0.34	0.23	0.19	0.17	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.34	0.20	0.48	0.43	0.53	0.19	0.17	0.44	0.33	0.39	0.25	0.26	0.53	
		Min-2w	0.03	0.15	0.20	0.38	0.19	0.08	0.08	0.29	0.16	0.27	0.20	0.12	0.03	
	Oki	Mean	0.20	0.28	0.38	0.35	0.25	0.27	0.08	0.12	0.14	0.26	0.34	0.21	0.23	
		%	100	100	100	100	100	100	100	100	100	52	85	100	93	
		Max-2w	0.23	0.29	0.41	0.41	0.30	0.31	0.09	0.13	0.17	-	0.48	0.30	0.48	
		Min-2w	0.17	0.26	0.35	0.29	0.22	0.24	0.07	0.11	0.11	-	0.19	0.05	0.05	
	Banryu	Mean	0.21	0.24	0.33	0.32	0.24	0.28	0.09	0.16	0.19	0.34	0.33	0.24	0.25	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.25	0.25	0.37	0.35	0.26	0.33	0.10	0.19	0.20	0.42	0.48	0.25	0.48	
		Min-2w	0.17	0.23	0.29	0.29	0.21	0.23	0.09	0.13	0.19	0.25	0.19	0.23	0.09	
	Yusuhara	Mean	0.24	0.18	0.35	0.26	0.15	0.47	0.08	0.05	0.08	0.21	0.16	0.15	0.21	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.28	0.24	0.37	0.28	0.18	0.82	0.08	0.06	0.12	0.29	0.25	0.16	0.82	
		Min-2w	0.20	0.12	0.32	0.23	0.13	0.30	0.07	0.04	0.05	0.13	0.12	0.14	0.04	
	Hedo	Mean	0.34	0.34	0.43	0.44	0.34	0.17	0.18	0.20	0.33	0.37	0.32	0.32	0.32	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.35	0.40	0.49	0.50	0.36	0.25	0.27	0.20	0.40	0.41	0.38	0.32	0.50	
		Min-2w	0.34	0.29	0.37	0.37	0.32	0.09	0.09	0.19	0.27	0.33	0.27	0.32	0.09	
	Ogasawara	Mean	0.08	0.12	0.06	0.14	0.07	0.06	0.02	0.07	0.06	0.10	0.08	0.18	0.08	
		%	100	100	100	100	100	100	100	100	80	50	100	61	90	
		Max-w	0.21	0.15	0.10	0.30	0.16	0.11	0.06	0.13	0.10	0.11	0.19	0.23	0.30	
		Min-w	N.D.	0.08	0.03	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.10	N.D.	0.14	N.D.	
Malaysia	TanahRata	Mean	0.05	0.02	0.07	0.05	0.07	0.04	0.20	0.23	0.12	0.13	0.07	0.13	0.10	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.09	0.06	0.13	0.12	0.10	0.08	0.32	0.34	0.17	0.30	0.10	0.29	0.34	
		Min-w	0.02	N.D.	0.04	N.D.	0.06	0.01	0.13	0.14	0.08	N.D.	0.01	0.04	N.D.	
	Petaling Jaya	Mean	0.22	0.02	0.09	0.11	0.19	0.39	0.48	0.14	0.04	0.24	-	-	0.19	
		%	100	100	100	100	100	100	100	100	100	100	0	0	83	
		Max-w	0.70	0.06	0.21	0.51	0.53	0.54	1.17	0.50	0.11	0.83	-	-	1.17	
		Min-w	0.05	N.D.	N.D.	N.D.	N.D.	0.05	N.D.	N.D.	N.D.	N.D.	-	-	N.D.	
	Danum Valley	Mean	0.09	N.D.	0.01	0.09	0.08	0.07	N.D.	0.26	0.01	0.10	0.15	0.18	0.09	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.18	N.D.	0.02	0.14	0.13	0.15	N.D.	0.27	0.02	0.19	0.20	0.34	0.34	
		Min-w	N.D.	N.D.	N.D.	0.03	0.01	N.D.	N.D.	0.24	N.D.	0.01	0.09	0.02	N.D.	
Mongolia	Ulaanbaatar	Mean	-	-	-	0.34	0.38	-	-	-	0.48	0.40	0.42	1.05	0.60	
		%	0	0	0	100	45	0	0	0	83	90	47	90	57	
		Max-w	-	-	-	0.46	0.42	-	-	-	-	0.88	0.47	0.45	1.42	1.42
		Min-w	-	-	-	0.20	0.34	-	-	-	-	N.D.	0.32	0.39	0.72	N.D.
	Terelj	Mean	0.11	0.15	0.11	0.14	0.18	0.07	0.10	0.12	0.24	0.10	0.14	0.08	0.13	
		%	100	100	100	100	89	85	100	100	100	100	100	100	96	
		Max-2w	0.13	0.22	0.16	0.17	0.20	0.08	0.13	0.14	0.32	0.11	0.14	0.09	0.32	
		Min-2w	0.09	0.08	0.09	0.11	0.15	0.06	0.07	0.09	0.15	0.09	0.13	0.06	0.06	
Philippines	Metro Manila	Mean	1.55	0.25	0.24	0.10	0.31	0.12	0.13	-	0.58	1.04	N.D.	N.D.	0.46	
		%	94	100	100	67	100	100	80	0	76	52	100	100	74	
		Max-w	5.55	0.28	0.40	-	0.46	0.16	0.22	-	0.82	1.05	N.D.	N.D.	5.55	
		Min-w	0.15	0.22	0.03	-	0.12	0.07	0.08	-	0.35	1.04	N.D.	N.D.	N.D.	
	Los Banos	Mean	0.02	N.D.	0.10	0.12	0.07	0.21	0.13	0.10	0.33	0.76	0.23	0.52	0.22	
		%	100	100	80	100	100	25	20	33	40	100	45	100	83	
		Max-w	0.07	N.D.	0.13	0.16	0.12	-	-	-	0.36	1.83	0.31	0.80	1.83	
		Min-w	N.D.	N.D.	0.05	0.04	N.D.	-	-	-	0.30	0.26	0.15	0.25	N.D.	
	Mt. Sto. Tomas	Mean	-	-	-	-	-	-	-	-	-	0.01	0.01	0.04	0.03	
		%	0	0	0	0	0	0	0	0	0	84	78	100	35	
		Max-w	-	-	-	-	-	-	-	-	-	0.02	0.03	0.17	0.17	
		Min-w	-	-	-	-	-	-	-	-	-	N.D.	N.D.	N.D.	N.D.	

Table 4.18 Particulate matter component: K⁺

Unit : µg/m ³			2006												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Republic of Korea	Kanghwa	Mean	0.34	0.65	0.39	0.28	0.30	0.27	0.12	0.15	0.18	0.33	0.46	0.52	0.33
		%	6	18	16	17	16	17	16	16	17	16	13	13	15
		Max-d	0.60	1.00	1.58	0.36	0.51	0.36	0.24	0.38	0.23	0.47	1.20	0.78	1.58
		Min-d	0.08	0.35	0.07	0.18	0.18	0.13	0.02	0.02	0.10	0.12	0.07	0.27	0.02
	Cheju	Mean	0.41	0.62	0.54	0.79	0.48	0.29	0.22	0.16	0.12	0.58	0.65	0.54	0.46
		%	19	14	16	17	19	10	16	16	17	16	17	16	16
		Max-d	1.22	0.97	0.96	1.31	0.80	0.79	0.33	0.30	0.18	0.97	1.42	1.35	1.42
		Min-d	0.12	0.24	0.29	0.50	0.21	0.10	0.09	0.04	0.04	0.24	0.13	0.24	0.04
	Imsil	Mean	0.53	0.52	0.56	0.62	0.73	0.45	0.21	0.30	0.21	0.28	0.71	0.51	0.50
		%	13	14	16	17	16	17	13	16	13	16	17	16	15
		Max-d	1.77	0.77	0.67	0.96	1.26	0.80	0.28	0.52	0.56	0.49	1.14	0.86	1.77
		Min-d	0.15	0.18	0.40	0.28	0.39	0.29	0.13	0.10	0.13	0.16	0.36	0.20	0.10
Russia	Mondy	Mean	0.02	0.04	0.02	0.05	0.04	0.07	0.14	0.03	N.D.	N.D.	0.02	0.03	0.04
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.05	0.06	0.04	0.1	0.1	0.1	0.18	0.03	N.D.	N.D.	0.03	0.03	0.18
		Min-2w	N.D.	0.03	N.D.	0.0	0.0	N.D.	0.10	0.03	N.D.	N.D.	0.01	0.03	N.D.
	Listvianka	Mean	0.12	0.07	0.05	0.05	0.09	0.07	0.05	0.09	0.03	0.01	0.01	0.03	0.05
		%	92	100	100	100	100	100	100	100	100	100	100	100	98
		Max*	0.29	0.11	0.09	0.08	0.16	0.09	0.07	0.12	0.07	0.02	0.01	0.07	0.29
		Min*	N.D.	0.05	0.03	0.02	0.02	0.05	0.03	0.06	N.D.	N.D.	N.D.	0.01	N.D.
	Irkutsk	Mean	0.12	0.11	0.18	0.09	0.14	0.07	0.08	0.03	0.05	0.05	0.14	0.17	0.10
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.19	0.13	0.22	0.13	0.24	0.10	0.09	0.06	0.10	0.09	0.37	0.31	0.37
		Min-w	0.05	0.08	0.08	0.07	0.09	0.06	0.06	0.01	0.01	N.D.	0.02	N.D.	N.D.
Primorskaya	Mean	0.73	0.63	0.44	0.30	0.24	0.14	0.11	0.17	0.20	0.36	0.44	0.64	0.37	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-2w	0.77	0.67	0.47	0.35	0.26	0.15	0.12	0.19	0.25	0.44	0.46	0.71	0.77	
	Min-2w	0.70	0.59	0.42	0.25	0.22	0.13	0.10	0.15	0.14	0.28	0.43	0.57	0.10	
Thai Land	Bangkok	Mean	1.7	2.4	0.3	0.32	0.26	0.02	0.15	0.30	0.37	0.50	0.95	1.13	0.65
		%	100	100	63	100	100	100	100	100	100	100	100	100	97
		Max-10d	2.66	4.66	0.74	0.45	0.40	0.04	0.33	0.45	0.40	0.94	1.33	3.12	4.66
		Min-10d	0.09	0.24	0.06	0.08	0.13	N.D.	N.D.	N.D.	0.33	0.18	0.52	0.04	N.D.
	Patumthani	Mean	0.67	0.54	0.54	0.20	0.01	0.05	0.07	0.06	N.D.	0.57	0.17	0.29	0.25
		%	100	100	100	100	100	100	100	100	100	100	100	100	97
		Max-10d	0.80	0.58	0.64	0.24	0.04	0.14	0.09	0.10	N.D.	1.72	0.44	0.62	1.72
		Min-10d	0.54	0.50	0.39	0.17	N.D.	N.D.	0.06	N.D.	N.D.	N.D.	N.D.	0.07	N.D.
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	0.49	-	-	-	-	0.08	-	-	-	0.46	0.34
		%	0	0	52	0	0	0	0	57	0	0	0	59	14
		Max-2w	-	-	-	-	-	-	-	-	-	-	-	-	0.49
		Min-2w	-	-	-	-	-	-	-	-	-	-	-	-	0.08
Chiangmai (Mae Hia)	Mean	0.63	1.25	1.15	0.84	0.16	0.21	0.48	4.29	0.22	0.18	0.40	0.56	0.86	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-10d	1.10	1.51	2.74	1.05	0.41	0.43	1.30	12.14	0.37	0.27	0.52	1.04	12.14	
	Min-10d	N.D.	1.04	0.09	0.60	N.D.	0.02	N.D.	0.16	0.13	0.03	0.24	0.08	N.D.	
Nakhon Ratchasima	Mean	0.45	1.02	1.19	0.64	0.15	0.11	0.10	0.12	0.51	0.85	1.22	1.75	0.48	
	%	100	100	100	100	100	100	100	100	100	100	100	100	88	
	Max-10d	0.58	1.37	2.34	1.34	0.27	0.19	0.15	0.27	0.99	1.11	2.42	2.96	2.96	
	Min-10d	0.18	0.65	0.28	0.17	0.02	N.D.	0.06	N.D.	0.11	0.39	0.17	0.11	N.D.	
Viet Nam	Ha Noi	Mean	1.59	5.11	2.48	2.17	2.16	2.10	1.33	0.78	1.14	0.71	0.89	0.87	1.70
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	3.14	8.93	4.43	2.47	3.35	2.82	1.89	1.13	1.68	0.90	1.16	1.40	8.93
		Min-w	0.21	0.57	1.36	1.78	1.40	1.59	0.58	0.31	0.67	0.62	0.55	0.59	0.21
	Hoa Binh	Mean	1.82	7.35	0.89	0.43	0.85	1.30	0.55	0.58	1.33	0.53	1.80	1.25	1.19
		%	100	33	100	100	100	100	100	100	100	100	100	100	96
		Max-w	4.24	-	1.39	0.70	1.38	2.33	0.84	1.26	1.91	0.76	2.66	3.06	7.35
		Min-w	0.85	-	0.20	0.17	0.44	0.09	0.15	0.24	0.84	0.36	1.05	0.14	0.09

Mean : monthly or annual arithmetic average value
 Max-d : maximum value of daily data
 Min-d : minimum value of daily data
 Max-10d : maximum value of 10-day interval data
 Min-10d : minimum value of 10-day interval data
 Max-w : maximum value of weekly data
 Min-w : minimum value of weekly data
 Max-2w : maximum value of biweekly data
 Min-2w : minimum value of biweekly data
 Max-* : maximum value of flexible interval data
 Min-* : minimum value of flexible interval data
 % : monthly or annual percentage of period of available data

Table 4.19 Particulate matter component: Mg²⁺

Unit : µg/m ³		2006														Annual
Country	Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
Indonesia	Serpong	Mean	0.03	0.04	0.02	N.D.	0.04	0.02	0.09	0.02	0.05	0.12	0.05	0.04	0.04	
		%	100	33	100	100	100	100	100	100	100	35	58	100	88	
		Max-2w	0.04	-	0.03	0.02	0.05	0.06	0.11	0.02	0.09	-	-	-	0.09	0.12
		Min-2w	0.02	-	0.01	N.D.	0.04	N.D.	0.07	0.02	0.02	-	-	-	N.D.	N.D.
Japan	Rishiri	Mean	0.11	0.26	0.25	0.15	0.20	0.05	0.09	0.08	0.21	0.37	0.27	0.20	0.20	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.15	0.42	0.31	0.16	0.31	0.05	0.12	0.11	0.23	0.59	0.36	0.22	0.59	
		Min-2w	0.08	0.10	0.19	0.14	0.10	0.05	0.07	0.06	0.19	0.18	0.19	0.18	0.05	
	Tappi	Mean	0.47	1.17	0.92	1.21	0.33	0.13	0.11	0.10	0.26	0.36	0.90	0.40	0.63	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.54	1.23	1.28	1.81	0.70	0.17	0.13	0.10	0.40	0.39	1.14	0.46	1.81	
		Min-2w	0.40	1.11	0.57	0.61	0.08	0.10	0.09	0.10	0.13	0.34	0.45	0.34	0.08	
	Sado-seki	Mean	0.41	0.30	0.42	0.32	0.21	0.07	0.07	0.06	0.29	0.37	0.37	0.37	0.28	
		%	100	100	100	100	100	50	100	100	100	100	100	100	96	
		Max-2w	0.50	0.32	0.52	0.45	0.47	-	0.10	0.07	0.36	0.50	0.38	0.61	0.61	
		Min-2w	0.32	0.27	0.31	0.19	0.07	-	0.04	0.05	0.22	0.28	0.35	0.14	0.04	
	Happo	Mean	N.D.	0.02	0.04	0.03	0.03	0.03	N.D.	0.03	0.01	0.04	0.01	0.02	0.02	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	N.D.	0.03	0.06	0.06	0.04	0.04	N.D.	0.04	0.02	0.04	0.01	0.02	0.06	
		Min-2w	N.D.	0.02	0.02	N.D.	0.03	0.02	N.D.	0.02	0.01	0.04	N.D.	0.02	N.D.	
	Ijira	Mean	0.02	0.04	0.06	0.11	0.07	0.02	0.02	0.05	0.03	0.04	0.03	0.03	0.04	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.05	0.05	0.08	0.11	0.13	0.02	0.03	0.06	0.05	0.05	0.03	0.04	0.13	
		Min-2w	N.D.	0.03	0.04	0.11	0.03	0.02	0.01	0.03	0.02	0.04	0.02	0.02	N.D.	
	Oki	Mean	0.34	0.37	0.46	0.48	0.23	0.14	0.11	0.11	0.27	0.30	0.45	0.36	0.30	
		%	100	100	100	100	100	100	100	100	100	52	85	100	93	
		Max-2w	0.37	0.40	0.49	0.49	0.37	0.14	0.15	0.16	0.30	-	0.53	0.60	0.60	
		Min-2w	0.32	0.33	0.44	0.48	0.12	0.14	0.08	0.07	0.24	-	0.37	0.04	0.04	
	Banryu	Mean	0.20	0.27	0.30	0.65	0.20	0.08	0.09	0.13	0.27	0.24	0.50	0.17	0.26	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.21	0.28	0.32	0.92	0.32	0.09	0.12	0.21	0.31	0.35	0.78	0.17	0.92	
		Min-2w	0.19	0.26	0.27	0.39	0.13	0.07	0.07	0.05	0.24	0.15	0.23	0.16	0.05	
	Yusuhara	Mean	0.06	0.06	0.11	0.19	0.12	0.06	0.06	0.03	0.04	0.12	0.09	0.07	0.09	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.07	0.08	0.12	0.21	0.19	0.09	0.09	0.04	0.05	0.16	0.12	0.09	0.21	
		Min-2w	0.05	0.05	0.11	0.17	0.06	0.03	0.03	0.03	0.03	0.08	0.07	0.05	0.03	
	Hedo	Mean	0.67	0.74	0.79	0.44	0.47	0.27	0.50	0.42	0.61	0.83	0.64	0.80	0.60	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.70	0.84	0.83	0.70	0.56	0.38	0.77	0.48	0.89	0.89	0.66	0.86	0.89	
		Min-2w	0.64	0.64	0.75	0.18	0.41	0.17	0.24	0.37	0.34	0.74	0.61	0.75	0.17	
Ogasawara	Mean	0.14	0.33	0.19	0.35	0.23	0.12	0.07	0.25	0.16	0.32	0.19	0.43	0.22		
	%	100	100	100	100	100	100	100	100	80	50	100	61	90		
	Max-w	0.47	0.36	0.37	0.70	0.50	0.23	0.22	0.43	0.25	0.35	0.41	0.63	0.70		
	Min-w	N.D.	0.27	0.12	0.02	0.04	0.01	N.D.	0.02	N.D.	0.30	0.03	0.27	N.D.		
Malaysia	TanahRata	Mean	N.D.	0.02	N.D.	N.D.	N.D.	0.01	0.05	0.04	0.01	N.D.	N.D.	0.04	0.02	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.01	0.06	0.02	N.D.	N.D.	0.02	0.09	0.06	0.02	0.01	N.D.	0.06	0.09	
		Min-w	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	0.02	N.D.	N.D.	N.D.	0.02	N.D.	
	Petaling Jaya	Mean	0.02	N.D.	0.03	0.01	0.03	0.05	0.10	N.D.	N.D.	N.D.	-	-	0.03	
		%	100	100	100	100	100	100	100	100	100	100	0	0	83	
		Max-w	0.08	0.02	0.09	0.04	0.08	0.08	0.30	N.D.	0.03	N.D.	-	-	0.30	
		Min-w	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	-	N.D.	
	Danum Valley	Mean	0.05	N.D.	N.D.	0.02	N.D.	N.D.	N.D.	0.04	N.D.	N.D.	0.03	0.03	0.01	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.09	N.D.	N.D.	0.04	0.02	N.D.	N.D.	0.04	N.D.	N.D.	0.06	0.06	0.09	
		Min-w	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.03	N.D.	N.D.	0.01	N.D.	N.D.	
Mongolia	Ulaanbaatar	Mean	-	-	-	0.17	0.21	-	-	-	0.38	0.25	0.15	0.29	0.26	
		%	0	0	0	100	45	0	0	0	83	90	47	90	57	
		Max-w	-	-	-	0.29	0.30	-	-	-	-	0.60	0.41	0.16	0.34	0.60
		Min-w	-	-	-	0.06	0.11	-	-	-	-	N.D.	0.10	0.14	0.22	N.D.
	Terelj	Mean	0.05	0.03	0.06	0.04	0.07	0.07	0.09	0.05	0.06	0.07	0.05	0.05	0.06	
		%	100	100	100	100	89	85	100	100	100	100	100	100	96	
		Max-2w	0.08	0.04	0.08	0.05	0.08	0.08	0.09	0.08	0.08	0.12	0.07	0.08	0.12	
		Min-2w	0.02	0.01	0.04	0.03	0.06	0.06	0.09	0.02	0.03	0.02	0.03	0.02	0.01	
Philippines	Metro Manila	Mean	0.10	0.13	0.34	0.03	0.08	0.31	0.70	-	0.08	0.24	N.D.	N.D.	0.24	
		%	94	100	100	67	100	100	80	0	76	52	100	100	74	
		Max-w	0.16	0.15	1.39	-	0.13	0.49	1.18	-	0.13	0.25	N.D.	N.D.	1.39	
		Min-w	0.05	0.10	N.D.	-	0.04	0.01	0.14	-	0.04	0.22	N.D.	N.D.	N.D.	
	Los Banos	Mean	0.06	0.11	0.06	0.04	0.04	0.05	0.46	0.04	0.03	0.10	0.10	0.26	0.09	
		%	100	100	80	100	100	25	20	33	40	100	45	100	83	
		Max-w	0.08	0.13	0.09	0.07	0.09	-	-	-	0.04	0.23	0.18	0.27	0.46	
		Min-w	0.04	0.08	0.05	N.D.	N.D.	-	-	-	0.03	0.02	0.01	0.23	N.D.	
	Mt. Sto. Tomas	Mean	-	-	-	-	-	-	-	-	-	-	0.01	0.02	N.D.	0.01
		%	0	0	0	0	0	0	0	0	0	84	78	100	35	
		Max-w	-	-	-	-	-	-	-	-	-	-	0.02	0.02	0.02	0.02
		Min-w	-	-	-	-	-	-	-	-	-	-	0.01	0.01	N.D.	N.D.

Table 4.19 Particulate matter component: Mg²⁺

Unit : µg/m ³			2006												Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Republic of Korea	Kanghwa	Mean	N.D.	0.01	N.D.	0.02	0.01	N.D.	N.D.	N.D.	N.D.	0.01	0.03	0.03	0.01
		%	6	18	16	17	16	17	16	16	17	16	13	13	15
		Max-d	0.02	0.02	0.01	0.04	0.02	0.01	N.D.	0.01	N.D.	0.02	0.07	0.04	0.07
		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.
	Cheju	Mean	0.02	0.02	0.03	0.03	0.01	N.D.	N.D.	N.D.	N.D.	0.02	0.03	0.03	0.02
		%	19	14	16	17	19	10	16	16	17	16	17	16	16
		Max-d	0.04	0.03	0.07	0.04	0.02	0.02	0.02	0.02	0.01	0.04	0.05	0.05	0.07
		Min-d	N.D.	N.D.	N.D.	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	N.D.
	Imsil	Mean	0.08	0.04	0.05	0.09	0.06	0.03	0.01	0.01	N.D.	0.01	0.04	0.05	0.04
		%	13	14	16	17	16	17	13	16	13	16	17	16	15
		Max-d	0.30	0.06	0.08	0.15	0.10	0.06	0.02	0.02	0.02	0.03	0.08	0.09	0.30
		Min-d	N.D.	0.02	0.02	0.03	0.03	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Russia	Mondy	Mean	0.01	N.D.	N.D.	0.01	0.01	N.D.	0.04	N.D.	N.D.	N.D.	N.D.	N.D.	0.01
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-2w	0.01	N.D.	N.D.	0.0	0.0	0.0	0.05	N.D.	N.D.	N.D.	N.D.	N.D.	0.05
		Min-2w	0.01	N.D.	N.D.	0.0	0.0	N.D.	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Listvianka	Mean	N.D.	0.02	N.D.	0.02	0.03	0.02	0.02	0.03	N.D.	0.02	0.02	N.D.	0.02
		%	92	100	100	100	100	100	100	100	100	100	100	100	98
		Max*	0.02	0.04	N.D.	0.03	0.04	0.02	0.03	0.03	0.01	0.04	0.04	0.01	0.04
		Min*	N.D.	0.01	N.D.	0.01	0.02	0.01	0.01	0.02	N.D.	N.D.	N.D.	N.D.	N.D.
	Irkutsk	Mean	0.18	0.07	0.13	0.10	0.12	0.08	0.07	0.02	0.04	0.04	0.07	0.07	0.08
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	0.32	0.08	0.19	0.14	0.20	0.09	0.09	0.06	0.10	0.06	0.13	0.14	0.32
		Min-w	0.10	0.05	0.07	0.07	0.08	0.06	0.06	N.D.	N.D.	N.D.	0.04	N.D.	N.D.
Primorskaya	Mean	0.07	0.15	0.09	0.07	0.09	0.04	0.03	0.04	0.04	0.06	0.06	0.08	0.07	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-2w	0.08	0.21	0.10	0.10	0.12	0.04	0.03	0.05	0.06	0.07	0.07	0.09	0.21	
	Min-2w	0.06	0.08	0.08	0.05	0.07	0.04	0.03	0.03	0.03	0.06	0.05	0.07	0.03	
Thai Land	Bangkok	Mean	0.2	0.7	0.1	0.10	0.10	N.D.	0.06	0.09	0.07	0.10	0.17	0.11	0.13
		%	100	100	63	100	100	100	100	100	100	100	100	100	97
		Max-10d	0.35	1.29	0.17	0.20	0.15	N.D.	0.13	0.15	0.09	0.12	0.25	0.33	1.29
		Min-10d	N.D.	0.02	0.03	0.02	0.04	N.D.	0.02	N.D.	0.06	0.06	0.11	N.D.	N.D.
	Patumthani	Mean	0.06	0.09	0.08	0.05	0.03	0.06	N.D.	0.04	0.04	0.11	0.02	0.04	0.05
		%	100	100	100	100	100	100	100	100	100	100	100	100	97
		Max-10d	0.08	0.10	0.10	0.08	0.08	0.09	N.D.	0.05	0.06	0.33	0.05	0.07	0.33
		Min-10d	0.04	0.08	0.07	0.03	N.D.	0.04	N.D.	0.02	N.D.	N.D.	N.D.	0.02	N.D.
	Khanchanaburi (Vachiralongkorn Dam)	Mean	-	-	0.05	-	-	-	-	0.03	-	-	-	0.06	0.04
		%	0	0	52	0	0	0	0	57	0	0	0	59	14
		Max-2w	-	-	-	-	-	-	-	-	-	-	-	-	0.06
		Min-2w	-	-	-	-	-	-	-	-	-	-	-	-	0.03
Chiangmai (Mae Hia)	Mean	N.D.	N.D.	0.84	0.09	N.D.	0.01	0.64	0.20	N.D.	0.12	0.38	0.41	0.22	
	%	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Max-10d	N.D.	N.D.	1.43	0.10	N.D.	0.02	1.07	0.49	N.D.	0.35	0.42	0.71	1.43	
	Min-10d	N.D.	N.D.	0.54	0.08	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.33	0.12	N.D.	
Nakhon Ratchasima	Mean	0.03	N.D.	0.13	0.02	0.07	0.02	0.16	0.08	0.04	0.05	0.08	N.D.	0.05	
	%	100	100	62	100	100	100	36	100	58	100	100	66	88	
	Max-10d	0.06	N.D.	0.13	0.04	0.12	0.06	-	0.10	0.05	0.08	0.09	-	0.16	
	Min-10d	N.D.	N.D.	0.12	N.D.	N.D.	N.D.	-	0.07	0.02	N.D.	0.07	-	N.D.	
Viet Nam	Ha Noi	Mean	0.94	1.46	0.73	0.78	0.66	0.50	0.27	0.13	0.35	0.16	0.28	0.17	0.52
		%	100	100	100	100	100	100	100	100	100	100	100	100	100
		Max-w	2.18	2.79	1.22	0.95	0.77	0.58	0.41	0.19	0.56	0.21	0.45	0.22	2.79
		Min-w	0.44	0.21	0.34	0.69	0.59	0.37	0.14	0.06	0.12	0.11	0.14	0.09	0.06
	Hoa Binh	Mean	0.16	0.32	0.02	0.04	0.11	0.09	0.17	0.03	0.11	0.09	0.19	0.12	0.13
		%	100	33	100	100	100	100	100	100	100	100	100	100	79
		Max-w	0.21	-	0.05	0.10	0.18	0.17	0.19	0.07	0.15	0.22	0.33	0.32	0.33
		Min-w	0.11	-	0.04	0.08	0.06	0.05	0.11	0.02	0.06	0.02	0.07	0.27	0.02

Mean : monthly or annual arithmetic average value
 Max-d : maximum value of daily data
 Min-d : minimum value of daily data
 Max-10d : maximum value of 10-day interval data
 Min-10d : minimum value of 10-day interval data
 Max-w : maximum value of weekly data
 Min-w : minimum value of weekly data
 Max-2w : maximum value of biweekly data
 Min-2w : minimum value of biweekly data
 Max-* : maximum value of flexible interval data
 Min-* : minimum value of flexible interval data
 % : monthly or annual percentage of period of available data

Table 4.20 Particulate matter component: Ca²⁺

Unit : µg/m ³			2006												Annual	
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Indonesia	Serpong	Mean	0.24	0.81	0.32	0.23	0.16	0.55	0.45	0.11	0.34	0.93	0.42	0.24	0.36	
		%	100	33	100	100	100	100	100	100	100	100	35	58	100	88
		Max-2w	0.25	-	0.45	0.43	0.31	1.51	0.53	0.15	0.64	-	-	-	0.48	1.51
		Min-2w	0.23	-	0.19	0.04	0.01	0.03	0.36	0.07	0.03	-	-	-	N.D.	N.D.
Japan	Rishiri	Mean	0.07	0.21	0.17	0.15	0.15	0.04	0.05	0.06	0.10	0.18	0.16	0.12	0.13	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.08	0.35	0.20	0.20	0.27	0.05	0.07	0.07	0.07	0.11	0.30	0.24	0.13	0.35
		Min-2w	0.07	0.07	0.14	0.10	0.06	0.03	0.04	0.06	0.10	0.11	0.08	0.12	0.03	
	Tappi	Mean	0.23	0.65	0.64	0.60	0.30	0.10	0.07	0.05	0.15	0.21	0.41	0.23	0.35	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.23	0.69	0.75	0.67	0.70	0.13	0.07	0.09	0.22	0.24	0.56	0.29	0.75	
		Min-2w	0.22	0.62	0.54	0.53	0.09	0.07	0.06	0.02	0.08	0.17	0.32	0.17	0.02	
	Sado-seki	Mean	0.18	0.24	0.44	0.44	0.31	0.14	0.04	0.06	0.15	0.25	0.19	0.23	0.23	
		%	100	100	100	100	100	50	100	100	100	100	100	100	96	
		Max-2w	0.23	0.33	0.48	0.49	0.69	-	0.05	0.07	0.19	0.30	0.23	0.33	0.69	
		Min-2w	0.13	0.15	0.40	0.39	0.05	-	0.03	0.04	0.10	0.23	0.16	0.13	0.03	
	Happo	Mean	N.D.	0.14	0.57	0.75	0.30	0.16	N.D.	0.06	0.03	0.17	0.03	0.03	0.17	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	N.D.	0.19	0.61	1.31	0.31	0.24	0.02	0.09	0.06	0.23	0.04	0.05	1.31	
		Min-2w	N.D.	0.10	0.53	0.19	0.28	0.09	N.D.	N.D.	N.D.	0.11	0.02	N.D.	N.D.	
	Ijira	Mean	0.04	0.16	0.23	0.63	0.28	0.18	0.06	0.15	0.08	0.16	0.07	0.05	0.18	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.06	0.24	0.30	0.70	0.52	0.18	0.07	0.19	0.09	0.21	0.11	0.06	0.70	
		Min-2w	0.01	0.08	0.17	0.57	0.07	0.18	0.06	0.11	0.06	0.09	0.03	0.04	0.01	
	Okii	Mean	0.19	0.34	0.81	0.94	0.32	0.15	0.05	0.08	0.13	0.21	0.32	0.18	0.29	
		%	100	100	100	100	100	100	100	100	100	52	85	100	93	
		Max-2w	0.20	0.47	0.87	1.01	0.60	0.20	0.06	0.09	0.16	-	0.44	0.27	1.01	
		Min-2w	0.17	0.20	0.75	0.87	0.17	0.10	0.04	0.08	0.10	-	0.19	0.05	0.04	
Banryu	Mean	0.19	0.34	0.65	0.79	0.38	0.16	0.06	0.10	0.16	0.28	0.34	0.22	0.31		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	0.20	0.47	0.71	1.23	0.72	0.20	0.06	0.12	0.17	0.34	0.43	0.22	1.23		
	Min-2w	0.19	0.21	0.59	0.35	0.17	0.11	0.06	0.09	0.15	0.21	0.24	0.21	0.06		
Yusuhara	Mean	0.18	0.12	0.57	1.17	0.43	0.19	0.04	0.04	0.07	0.25	0.19	0.16	0.27		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	0.19	0.13	0.64	1.33	0.68	0.26	0.04	0.04	0.10	0.42	0.28	0.16	1.33		
	Min-2w	0.17	0.11	0.49	1.01	0.17	0.10	0.03	0.03	0.04	0.07	0.12	0.15	0.03		
Hedo	Mean	0.35	0.36	0.84	1.25	0.60	0.14	0.23	0.17	0.28	0.39	0.65	0.51	0.48		
	%	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Max-2w	0.39	0.40	1.19	1.61	1.10	0.19	0.33	0.18	0.40	0.44	0.88	0.53	1.61		
	Min-2w	0.32	0.31	0.49	0.88	0.31	0.09	0.13	0.16	0.16	0.34	0.43	0.50	0.09		
Ogasawara	Mean	0.07	0.15	0.17	0.38	0.12	0.05	0.03	0.07	0.06	0.13	0.08	0.17	0.13		
	%	100	100	100	100	100	100	100	100	80	50	100	61	90		
	Max-w	0.23	0.17	0.20	0.77	0.26	0.09	0.08	0.12	0.09	0.13	0.19	0.23	0.77		
	Min-w	N.D.	0.12	0.09	0.02	0.02	N.D.	N.D.	N.D.	0.01	0.12	0.01	0.14	N.D.		
Malaysia	TanahRata	Mean	0.06	0.02	0.04	0.02	0.04	0.08	0.39	0.09	0.01	N.D.	N.D.	0.05	0.07	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.09	0.04	0.07	0.06	0.06	0.10	0.83	0.12	0.03	0.03	0.01	0.08	0.83	
		Min-w	0.04	N.D.	0.02	N.D.	0.03	0.06	0.08	0.04	N.D.	N.D.	N.D.	0.02	N.D.	
	Petaling Jaya	Mean	0.18	0.07	0.26	0.23	0.51	0.74	1.03	0.26	0.22	0.37	-	-	0.39	
		%	100	100	100	100	100	100	100	100	100	100	0	0	83	
		Max-w	0.42	0.13	0.42	0.77	1.34	1.08	2.52	0.89	0.70	0.65	-	-	2.52	
		Min-w	0.06	0.02	0.10	0.02	0.13	0.08	N.D.	N.D.	N.D.	0.14	-	-	N.D.	
	Danum Valley	Mean	0.02	N.D.	0.03	0.05	0.01	N.D.	N.D.	0.03	N.D.	N.D.	0.03	0.04	0.02	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.04	N.D.	0.06	0.06	0.02	N.D.	N.D.	0.03	0.01	N.D.	0.04	0.07	0.07	
		Min-w	N.D.	N.D.	N.D.	0.03	N.D.	N.D.	N.D.	0.02	N.D.	N.D.	0.02	0.01	N.D.	
Mongolia	Ulaanbaatar	Mean	-	-	-	4.05	4.29	-	-	-	5.46	4.43	4.18	4.16	4.64	
		%	0	0	0	100	45	0	0	0	83	90	47	90	57	
		Max-w	-	-	-	6.31	7.38	-	-	-	-	8.19	7.10	4.23	4.94	8.19
		Min-w	-	-	-	1.44	1.20	-	-	-	-	N.D.	2.85	4.13	3.40	N.D.
	Terelj	Mean	0.43	0.22	0.26	0.40	0.65	0.26	0.20	0.26	0.41	0.20	0.27	0.15	0.30	
		%	100	100	100	100	89	85	100	100	100	100	100	100	96	
		Max-2w	0.43	0.30	0.37	0.44	0.76	0.28	0.21	0.41	0.43	0.30	0.29	0.18	0.76	
		Min-2w	0.43	0.13	0.13	0.36	0.54	0.23	0.18	0.10	0.38	0.09	0.24	0.12	0.09	
Philippines	Metro Manila	Mean	0.93	1.15	0.96	0.35	1.32	0.70	0.57	-	1.47	2.63	N.D.	N.D.	1.09	
		%	94	100	100	67	100	100	80	80	0	76	52	100	100	74
		Max-w	1.21	1.43	1.70	-	2.15	0.94	0.69	-	2.42	2.71	N.D.	N.D.	2.71	
		Min-w	0.74	0.88	0.01	-	0.50	0.24	0.37	-	0.88	2.54	N.D.	N.D.	N.D.	
	Los Banos	Mean	0.03	0.08	0.11	0.08	0.10	0.29	0.27	0.12	0.22	0.19	0.14	0.27	0.13	
		%	100	100	80	100	100	25	20	33	40	100	45	100	83	
		Max-w	0.07	0.10	0.18	0.16	0.26	-	-	-	0.23	0.24	0.19	0.53	0.53	
		Min-w	N.D.	0.06	0.03	0.02	N.D.	-	-	-	0.20	0.14	0.09	0.13	N.D.	
	Mt. Sto. Tomas	Mean	-	-	-	-	-	-	-	-	-	-	N.D.	N.D.	0.04	0.02
		%	0	0	0	0	0	0	0	0	0	84	78	100	35	
		Max-w	-	-	-	-	-	-	-	-	-	-	N.D.	0.01	0.11	0.11
		Min-w	-	-	-	-	-	-	-	-	-	-	N.D.	N.D.	N.D.	N.D.

Table 4.20 Particulate matter component: Ca²⁺

Unit : µg/m ³			2006													Annual
Country	Site		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Republic of Korea	Kanghwa	Mean	0.01	0.03	N.D.	0.04	0.02	0.04	0.03	0.05	0.06	0.05	0.07	0.08	0.04	
		%	6	18	16	17	16	17	16	16	17	16	13	13	15	
		Max-d	0.03	0.06	0.03	0.12	0.04	0.07	0.06	0.07	0.12	0.09	0.17	0.12	0.17	
		Min-d	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	0.03	0.03	0.02	0.02	0.02	N.D.	
	Cheju	Mean	0.04	0.04	0.06	0.03	0.01	0.04	0.02	0.05	0.03	0.09	0.10	0.13	0.05	
		%	19	14	16	17	19	10	16	16	17	16	17	16	16	
		Max-d	0.09	0.07	0.15	0.04	0.03	0.09	0.04	0.10	0.05	0.16	0.15	0.34	0.34	
		Min-d	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	0.02	0.05	0.03	0.05	N.D.	
	Imsil	Mean	0.13	0.11	0.14	0.29	0.15	0.10	0.04	0.05	0.03	0.05	0.08	0.15	0.12	
		%	13	14	16	17	16	17	13	16	13	16	17	16	15	
		Max-d	0.44	0.19	0.28	0.59	0.25	0.16	0.06	0.08	0.07	0.11	0.16	0.31	0.59	
		Min-d	0.01	0.04	0.07	0.07	0.06	0.04	0.03	0.03	0.02	0.01	0.03	0.02	0.01	
Russia	Mondy	Mean	0.07	0.16	0.10	0.11	0.09	0.10	0.14	0.06	N.D.	N.D.	N.D.	N.D.	0.07	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.13	0.16	0.19	0.1	0.1	0.2	0.22	0.09	N.D.	N.D.	N.D.	N.D.	0.22	
		Min-2w	0.02	0.16	0.02	0.1	0.1	0.0	0.05	0.03	N.D.	N.D.	N.D.	N.D.	N.D.	
	Listvianka	Mean	0.04	0.07	0.17	0.26	0.24	0.10	0.23	0.15	0.12	0.11	0.07	0.03	0.13	
		%	92	100	100	100	100	100	100	100	100	100	100	100	98	
		Max*	0.07	0.13	0.32	0.48	0.37	0.16	0.29	0.19	0.21	0.25	0.16	0.08	0.48	
		Min*	N.D.	0.01	0.09	0.15	0.17	0.06	0.15	0.11	0.01	0.03	N.D.	N.D.	N.D.	
	Irkutsk	Mean	0.65	0.55	0.78	0.56	0.68	0.38	0.32	0.14	0.31	0.31	0.50	0.48	0.47	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	0.92	0.89	1.12	0.75	1.17	0.54	0.55	0.36	0.66	0.45	0.91	0.93	1.17	
		Min-w	0.30	0.22	0.48	0.45	0.47	0.24	0.11	N.D.	0.02	0.07	0.23	0.01	N.D.	
	Primorskaya	Mean	0.36	1.18	0.55	0.40	0.43	0.18	0.14	0.18	0.21	0.30	0.29	0.39	0.38	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-2w	0.38	1.78	0.55	0.49	0.51	0.20	0.15	0.19	0.27	0.31	0.39	0.44	1.78	
		Min-2w	0.35	0.59	0.55	0.31	0.36	0.16	0.13	0.17	0.14	0.28	0.20	0.34	0.13	
	Thai Land	Bangkok	Mean	2.8	4.5	0.7	0.71	1.01	0.20	0.61	0.83	0.92	1.44	2.08	1.87	1.39
			%	100	100	63	100	100	100	100	100	100	100	100	100	97
Max-10d			4.68	8.74	1.23	1.01	1.43	0.28	1.42	1.45	1.05	2.34	3.16	5.11	8.74	
Min-10d			0.03	0.34	0.39	0.23	0.39	0.11	0.18	0.14	0.82	0.79	1.23	0.08	0.03	
Patumthani		Mean	0.16	0.07	0.13	0.10	0.17	0.17	0.48	0.15	0.05	0.09	0.17	0.21	0.17	
		%	100	100	100	100	100	100	100	100	100	100	100	100	97	
		Max-10d	0.21	0.13	0.16	0.18	0.36	0.19	0.60	0.26	0.16	0.27	0.24	0.45	0.60	
		Min-10d	0.10	0.02	0.08	0.03	N.D.	0.15	0.39	0.07	N.D.	N.D.	0.08	0.05	N.D.	
Khanchanaburi (Vachiralongkorn Dam)		Mean	-	-	0.25	-	-	-	-	0.06	-	-	-	0.23	0.18	
		%	0	0	52	0	0	0	0	57	0	0	0	59	14	
		Max-2w	-	-	-	-	-	-	-	-	-	-	-	-	0.25	
		Min-2w	-	-	-	-	-	-	-	-	-	-	-	-	0.06	
Chiangmai (Mae Hia)		Mean	0.72	2.88	0.53	0.77	0.63	0.46	0.08	0.53	0.45	0.18	0.03	0.08	0.61	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-10d	1.21	6.23	1.51	0.80	1.00	0.89	0.25	1.02	0.84	0.48	0.05	0.13	6.23	
		Min-10d	0.25	1.18	N.D.	0.73	0.35	0.08	N.D.	0.28	0.22	N.D.	N.D.	0.04	N.D.	
Nakhon Ratchasima		Mean	0.14	N.D.	1.03	0.33	0.63	0.53	1.34	0.88	0.52	0.98	1.12	N.D.	0.65	
		%	100	100	62	100	100	100	36	100	58	100	100	66	88	
	Max-10d	0.18	N.D.	1.06	0.44	0.95	0.84	-	0.97	0.63	1.72	1.34	-	1.72		
	Min-10d	0.09	N.D.	1.00	0.11	0.14	0.16	-	0.72	0.41	0.05	0.90	-	N.D.		
Viet Nam	Ha Noi	Mean	7.98	18.63	13.63	18.19	16.30	14.34	12.01	1.20	2.13	1.58	2.28	2.83	8.97	
		%	100	100	100	100	100	100	100	100	100	100	100	100	100	
		Max-w	13.10	33.37	24.71	21.71	19.79	18.60	19.54	1.47	2.93	1.87	3.03	3.60	33.37	
		Min-w	1.55	2.85	7.08	16.91	12.15	12.10	2.95	0.85	1.45	1.47	1.47	1.21	0.85	
	Hoa Binh	Mean	3.43	8.32	1.68	1.86	2.93	2.31	1.60	0.90	2.23	1.28	2.98	2.42	2.39	
		%	100	33	100	100	100	100	100	100	100	100	100	100	92	
		Max-w	4.71	-	2.68	4.31	4.39	3.45	3.27	1.44	3.16	2.69	4.35	6.31	8.32	
		Min-w	2.43	-	0.58	0.13	2.01	2.40	1.36	0.72	1.54	0.64	1.36	1.10	0.13	

Mean : monthly or annual arithmetic average value
 Max-d : maximum value of daily data
 Min-d : minimum value of daily data
 Max-10d : maximum value of 10-day interval data
 Min-10d : minimum value of 10-day interval data
 Max-w : maximum value of weekly data
 Min-w : minimum value of weekly data
 Max-2w : maximum value of biweekly data
 Min-2w : minimum value of biweekly data
 Max-* : maximum value of flexible interval data
 Min-* : minimum value of flexible interval data
 % : monthly or annual percentage 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	O ₃	NO	NO ₂	HNO ₃	HCl	NH ₃
Ratio	x 2.66	x 2.00	x 1.25	x 1.91	x 2.62	x 1.52	x 0.71

Table 4.22 Expedient detection limits for summarizing air concentration data

Species	Detection limits
SO ₂	0.1 ppb
NO NO ₂ NO _x	0.1 ppb
O ₃	1 ppb
HNO ₃	0.1 ppb
HCl	0.1 ppb
NH ₃	0.1 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	<ul style="list-style-type: none">- pH(H₂O), pH(KCl), Exchangeable base cations (Na, K, Ca, and Mg), Exchangeable acidity, Effective cation exchange capacity (ECEC), Carbonate content (if pH > 7)- Exchangeable Al and H, Total C content, Total N content (optional)- Available P, Sulfate (voluntary)- Physical properties (Fine earth bulk density, and Penetration resistance)(optional)
Forest	<ul style="list-style-type: none">- General description of the forest (Description of trees, and Understory vegetation), Observation of tree decline- Photographic record of tree decline, Estimation of decline causes (optional)

5.1.1 Field Operation

Basically, two forest areas, whose soils have different sensitivities to acid deposition, are recommended to be selected in an area. Several plots (at least two ones) 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 ([Figure 5.3](#)). Decline symptoms of the observation trees were recorded according to the decline scale shown in [Table 5.2](#).

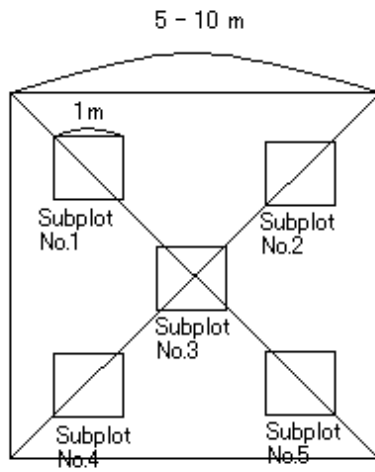


Figure 5.1 Plot for soil sampling

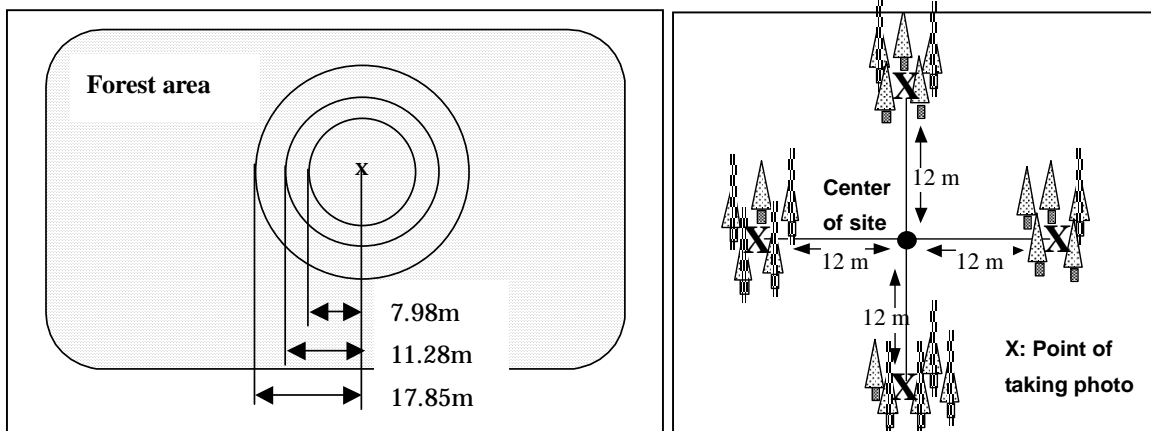


Figure 5.2 Plots for description of trees (Left) and selection of observation trees (Right)

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
Density of foliage	0. Healthy foliage, 1. Unbalanced foliage, 2. Sparse foliage, 3. Very sparse with dead leaves
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
Color of leaves	0. Normal, 1. Somewhat abnormal, 2. Abnormal, 3. Very abnormal
Injury of leaves	0. No symptoms, 1. Slightly injured, 2. Evidently injured, 3. Severely injured

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
Chemical Properties of Soil	
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
Total Nitrogen Content	Titration (Kjeldahl method) or CN-analyzer
j) Available Phosphate	Spectrophotometry (Bray-1 test)
k) Sulfate	Turbidimetry, IC, ICP-AES or ICP-MS
Physical Properties of Soil	
a) Fine Earth Bulk Density	Metal sampling cylinder, Drying oven, Balance
b) Penetration Resistance (in the fieldwork)	Pocket penetrometer

5.1.3 Monitoring Sites

Forest data and soil data of 8 areas of 4 countries were submitted this year. Since the interval of soil and vegetation monitoring is every 3–5 years, the second surveys were carried out in most of these sites. The list of monitoring site and reported items for 2006 was shown in [Table 5.4](#).

Table 5.4 Outline of the Monitoring Sites in 2006

Country	Nearest deposition monitoring site	Site: Name of forests	Soil type	Items ^{*1}
China	Jinyunshan (Chongqing)	Jinyunshan (2 plots for soil and forest)	(Acidi-Udic Argosols) ^{*2}	S, F
				S, F
	Jiwozi (Xi'an)	Dabagou (2 plots for soil; 1 plot for forest)	(Brown soil) ^{*2}	S, F
	Xiaoping (Xiamen)	Xiaoping (1 plot for soil and forest)	(Red soil) ^{*2}	S, F
	Zhuxiandong (Zhuhai)	Zhuxiandong (3 plots for soil and forest)	(Ochinic Udic Ferrosols) ^{*2}	S, F
Japan	Banryu	Banryu-2	Cambisols	S, F
		Iwami “rinku” Factory Park	Acrisols	S, F
	Ijira	Lake Ijira	Dystric Cambisol	S, F
		Yamato	Andosols	S, F
Russia	Primorskaya	Primorskaya	Mollic Leptosols/ Umbric Cambisols	S, F
Thailand	Vachiralongkorn Dam	Vachiralongkorn Dam	Ferric Acrisols	S, F
		Vachiralongkorn Puyea	Luvisols	S, F

*1. S, Soil monitoring; F, Forest monitoring; 2. Soil type has not been classified by the FAO/UNESCO or relevant taxonomies.

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: Description of trees

Table 5.7: Understory vegetation survey

Table 5.8: Observation of tree decline

Figure 5.3: Photographic record of tree decline

Table 5.5 a-1) Soil chemical analysis: Jinyunshan

Sampling period: - -

Name of analysis laboratory: Chongqing Environmental Monitoring Center

Sample No	Location	Soil type	Plot No.	Sub-plot No	Layer analysed (cm)	Repeat analysis	Moisture content	pH		Exchangeable base cations				Ex-acidit	Ex-acid cations		ECEC	Base saturation
							(wt%)	H ₂ O	KCl	Ca	Mg	K	Na		Al	H		%
							(cmol(±) kg ⁻¹)											
N 29° 50'02.4" E 106° 22'41.6"	Acidi-Udic Argosols	No 1	1	0-10		3.0	3.9	3.3	0.14	0.03	0.06	0	8.94	7.96	0.98	9.17	2.5	
			2		5.0	4.1	3.4	0.09	0.03	0.07	0	8.67	7.91	0.7	8.86	2.1		
			3		9.9	4.1	3.4	0.18	0.03	0.08	0	10.5	10.48	0	10.77	2.7		
			4		2.8	4.2	3.6	0.09	0.02	0.04	0.01	5.77	5.14	0.63	5.93	2.7		
			5		4.9	4.2	3.5	0.1	0.05	0.09	0	7.55	5.95	1.6	7.79	3.1		
		No 2	1	10-20	5.5	4.1	3.3	0.18	0.03	0.06	0.01	7.98	6.92	1.06	8.26	3.4		
			2		2.5	4.3	3.7	0.2	0.04	0.06	0	6.93	6.49	0.43	7.23	4.1		
			3		3.4	4.3	3.6	0.17	0.03	0.06	0.01	7.17	6.53	0.61	7.44	3.6		
			4		3.5	4.3	3.8	0.15	0.02	0.04	0.01	5.78	5.74	0.04	6.00	3.7		
			5		4.1	4.3	3.6	0.12	0.02	0.06	0.01	6.68	6.39	0.29	6.89	3.0		
N 29° 50'03.6" E 106° 22'29.4"	Acidi-Udic Argosols	No 2	1	0-10		2.7	4.1	3.5	0.08	0.02	0.06	0	6.47	6.23	0.24	6.63	2.4	
			2		4.2	4.2	3.5	0.07	0.02	0.05	0.01	9.82	9.19	0.64	9.97	1.5		
			3		2.7	4.4	3.7	0.08	0.02	0.06	0	6.66	6.13	0.53	6.82	2.3		
			4		3.9	4.3	3.5	0.25	0.03	0.05	0	6.28	5.74	0.54	6.61	5.0		
			5		3.3	4.4	3.7	0.41	0.02	0.09	0	4.02	3.96	0.07	4.54	11.5		
		No 1	1	10-20	3.3	4.4	3.7	0.08	0.02	0.06	0	6.22	5.54	0.68	6.38	2.5		
			2		4.1	4.2	3.6	0.09	0.02	0.05	0.01	8.5	8.29	0.21	8.67	2.0		
			3		3.3	4.4	3.7	0.09	0.03	0.06	0	5.11	4.94	0.17	5.29	3.4		
			4		1.5	4.3	3.6	0.25	0.04	0.07	0.01	4.74	4.26	0.48	5.11	7.2		
			5		3.0	5.4	4.1	0.45	0.02	0.09	0	0.86	0.74	0.12	1.42	39.4		

Note: Repeat analysis was not reported.

Table 5.5 a-2) Soil chemical analysis: Jiwozi

Sampling period: 2006/10/18

Name of analysis laboratory:

Sample No	Location	Soil type	Plot No.	Sub-plot No	Layer analysed (cm)	Repeat analysis	Moisture content		pH			Exchangeable base cations				Ex-acidity		Ex-acid		ECEC	Base saturation %
							(wt%)	H ₂ O	KCl	Ca	Mg	K	Na	Ex-acidity	Al	H					
																	(cmol(+) kg ⁻¹)				
A	JiWoZi	Brown soil	1	0-10	1		12.4	5.9	5.0	7.56	1.50	0.61	0.12	0.21	0.19	0.02	9.99	97.9			
					2		22.5	5.8	5.1	8.07	1.44	1.21	0.12	0.08	0.07	0.02	10.93	99.3			
					3		12.2	5.8	4.9	6.22	0.67	0.94	0.18	0.10	0.08	0.02	8.12	98.7			
					4		15.9	5.9	4.9	9.82	2.12	0.88	0.13	0.07	0.05	0.02	13.03	99.5			
					5		12.2	5.8	4.9	6.62	0.60	1.03	0.13	0.08	0.05	0.03	8.46	99.1			
B	JiWoZi			Brown soil	1	10-20	1		11.2	5.9	5.0	8.89	1.81	0.53	0.13	0.06	0.04	0.02	11.42	99.5	
							2		14.6	5.9	5.0	6.62	0.85	1.72	0.15	0.06	0.05	0.02	9.39	99.3	
							3		11.3	5.9	4.9	5.12	0.49	0.44	0.17	0.16	0.13	0.04	6.38	97.5	
							4		17.5	5.9	4.9	9.93	2.18	0.95	0.14	0.05	0.02	0.04	13.25	99.6	
							5		17.3	5.8	4.9	6.37	0.58	0.75	0.12	0.07	0.04	0.03	7.89	99.1	
A	JiWoZi	Brown soil	2			0-10	1		10.3	5.8	4.6	6.73	1.64	0.58	0.13	0.10	0.06	0.04	9.19	98.9	
							2		14.0	6.1	4.9	6.45	0.91	0.76	0.19	0.17	0.13	0.03	8.47	98.0	
							3		5.7	6.1	4.9	7.43	1.46	0.59	0.14	0.13	0.06	0.07	9.75	98.6	
							4		3.5	5.9	4.6	3.66	0.62	0.43	0.13	0.07	0.04	0.03	4.90	98.5	
							5		4.5	6.0	4.7	5.11	0.74	0.50	0.16	0.12	0.08	0.04	6.64	98.1	
B	JiWoZi			Brown soil	2	10-20	1		9.0	5.8	4.6	6.51	1.27	0.31	0.12	0.10	0.04	0.06	8.31	98.8	
							2		7.0	6.1	4.9	5.78	0.89	0.33	0.14	0.11	0.07	0.04	7.25	98.5	
							3		4.0	6.3	5.0	7.27	0.74	0.75	0.17	0.10	0.06	0.04	9.03	98.9	
							4		4.1	6.1	4.9	7.24	1.54	0.47	0.12	0.09	0.03	0.06	9.46	99.0	
							5		3.5	6.2	4.8	7.17	1.27	0.21	0.15	0.08	0.04	0.03	8.87	99.1	

Note: Repeat analysis was not reported.

Table 5.5 a-3) Soil chemical analysis: Xiaoping

Sampling period: 2006/11/17

Name of analysis laboratory: Xiamen Environmental Central Station

Sample No	Location	Soil type	Plot No.	Sub-plot No	Layer analyse (cm)	Repeat analysis	Moisture content	pH		Exchangeable base cations				Ex-acidity	Ex-acid		ECEC	Base saturation	T-N
							(wt%)	H ₂ O	KCl	Ca	Mg	K	Na	(cmol(+) kg ⁻¹)	Al	H		%	(g kg ⁻¹)
	Xiaoping	Red soil	XPT-01	1	0-10		3.5	4.4	3.88	0.07	0.08	0.22	0.03	7.68	7.04	0.64	8.08	5.0	1.45
2				4.2		4.38	3.83	0.08	0.07	0.17	0.03	8.93	8.00	0.93	9.28	3.8	1.74		
3				4		4.13	3.66	0.09	0.1	0.24	0.05	10.18	9.28	0.9	10.66	4.5	2.25		
4				3.3		4.43	3.9	0.12	0.08	0.2	0.04	7.83	6.72	1.11	8.27	5.3	1.57		
5				5.1		4.44	3.88	0.12	0.09	0.19	0.03	8.3	7.36	0.94	8.73	4.9	1.64		
	Xiaoping	Red soil	XPT-01	1	10-20		3	4.45	3.98	0.06	0.06	0.18	0.02	7.52	6.88	0.64	7.84	4.1	1.3
2				3.1		4.51	3.92	0.09	0.06	0.18	0.03	8.98	6.24	2.74	9.34	3.9	1.49		
3				3.5		4.48	3.85	0.07	0.07	0.19	0.03	7.68	7.09	0.58	8.04	4.5	0.95		
4				3.1		4.58	4.01	0.06	0.06	0.17	0.03	6.42	5.12	1.3	6.74	4.7	1.05		
5				3		4.6	4	0.07	0.06	0.16	0.03	6.74	6.24	0.5	7.06	4.5	1.4		

Note: Repeat analysis was not reported.

Table 5.5 a-4) Soil chemical analysis: Zhuxiandong

Sampling period: 2006/12/8-9

Name of analysis laboratory: ZHEMS

Sample No	Location	Soil type	Plot No.	Sub-plot No	Layer analyse (cm)	Repeat analysis	Moist ure	pH		Exchangeable base cations				Ex-acidity	Ex-acid		ECE	Base satura	T-C	T-N
							(wt%)	H ₂ O	KCl	Ca	Mg	K	Na		Al	H		%	(g kg ⁻¹)	
								(cmol(+) kg ⁻¹)												
The first	22° 12' 591N	Ochmic Udic Ferrerosols	No.1	1	0-10		2.4	4.71		0.37	0.11	0.12	0.09	4.34	0.25	4.09	5.04	13.82	13.71	0.85
							7.74	4.64		0.55	0.11	0.09	0.08	3.15	0.16	2.99	3.98	20.85	19.16	1.04
							8.93	4.69		0.14	0.06	0.10	0.05	3.08	0.14	2.94	3.43	10.24	15.67	1.00
							9.06	4.28		0.19	0.05	0.08	0.09	4.87	0.3	4.57	5.28	7.69	15.78	1.00
							2.41	4.57		0.21	0.07	0.10	0.06	3.18	0.2	2.98	3.63	12.48	15.52	0.97
The first	113° 30' 596E	Ochmic Udic Ferrerosols	No.1	1	10-20		2.09	4.67		0.29	0.07	0.07	0.06	3.35	0.16	3.19	3.83	12.59	7.77	0.46
							2.95	4.74		0.31	0.13	0.13	0.07	3.49	0.18	3.31	4.13	15.52	12.02	0.74
							6.27	4.63		0.25	0.06	0.10	0.03	3.03	0.16	2.87	3.47	12.74	15.31	1.00
							15.27	4.49		0.25	0.05	0.07	0.03	3.99	0.22	3.77	4.39	9.04	9.87	0.63
							3.01	4.67		0.15	0.07	0.09	0.07	3.27	0.13	3.14	3.66	10.55	10.23	0.69
The 2nd	22° 12' 20N	Ochmic Udic Ferrerosols	No.2	1	0-10		1.84	4.69		0.20	0.07	0.12	0.06	2.48	0.19	2.29	2.93	15.45	10.52	0.95
							1.69	4.5		0.21	0.07	0.12	0.10	3.01	0.24	2.77	3.50	14.04	14.68	1.17
							1.56	4.61		0.34	0.11	0.10	0.04	1.83	0.25	1.58	2.42	24.37	14.03	0.92
							2.78	4.5		0.12	0.06	0.17	0.07	3.93	0.28	3.65	4.35	9.72	14.90	1.13
							2.07	4.56		0.21	0.08	0.18	0.08	2.62	0.2	2.42	3.17	17.30	15.42	1.28
The 2nd	113° 30' 59E	Ochmic Udic Ferrerosols	No.2	1	10-20		2.74	4.77		0.30	0.10	0.14	0.07	18.13	0.95	18.13	18.74	3.28	9.73	0.83
							1.8	4.7		0.19	0.08	0.15	0.05	2.36	0.23	2.13	2.82	16.43	10.66	0.86
							1.67	4.74		0.24	0.12	0.13	0.06	2.34	0.25	2.09	2.89	19.03	11.77	0.87
							2.86	4.62		0.21	0.08	0.19	0.05	3.84	0.21	3.63	4.36	11.92	12.84	1.02
							2.5	4.71		0.26	0.10	0.22	0.07	2.89	0.19	2.7	3.55	18.58	9.30	0.65
The 3rd	22° 12' 20N	Ochmic Udic Ferrerosols	No.3	1	0-10		3.62	4.73		0.30	0.12	0.12	0.09	4.65	0.32	4.33	5.28	11.91	9.33	0.81
							3.34	4.45		0.20	0.07	0.17	0.07	4.58	0.31	4.27	5.09	10.10	8.65	0.56
							2.84	4.48		0.16	0.06	0.13	0.06	4.64	0.33	4.31	5.06	8.24	10.87	0.55
							2.71	4.68		0.08	0.08	0.15	0.02	5.92	0.27	5.65	6.24	5.11	11.83	0.74
							1.73	4.63		0.34	0.09	0.13	0.07	3.16	0.16	3.00	3.78	16.48	13.16	0.75
The 3rd	113° 31' 02E	Ochmic Udic Ferrerosols	No.3	1	10-20		4.3	4.76		0.25	0.10	0.10	0.04	4.29	0.21	4.08	4.78	10.26	6.40	0.40
							2.51	4.53		0.29	0.03	0.12	0.06	3.11	0.27	2.84	3.61	13.76	4.52	0.27
							4.48	4.4		0.13	0.05	0.11	0.08	4.44	0.21	4.23	4.80	7.56	8.13	0.52
							2.26	4.6		0.55	0.14	0.14	0.07	6.31	0.22	6.09	7.21	12.53	9.66	0.60
							1.82	4.57		0.13	0.07	0.19	0.10	3.59	0.18	3.41	4.09	12.20	10.59	0.58

Note: Repeat analysis was not reported; pH (KCl) was not reported.

Table 5.5 b-1) Soil chemical analysis: Banryu-2 (Lake Banryu)

Sampling period: 24 October 2006

Name of analysis laboratory Shimane Agricultural Technology Center

Sample No	Location	Soil type	Plot No.	Sub-plot No	Layer analysed (cm)	Repeat analysis	Moisture content		pH		Exchangeable base cations				Ex-acidity	Ex-acid cations		ECEC	Base saturation	Total C	Total N
							(wt%)	H ₂ O	KCl	Ca	Mg	K	Na	Al		H					
							(cmol(+) kg ⁻¹)										%		(g kg ⁻¹)		
	Banryu-2	Cambisols	1	1	0-10	1	3.4	4.8	3.7	0.55	0.58	0.30	0.067	4.5	4.0	0.58	6.1	24.9	28	1.3	
				2	0-10		2.5	4.8	3.7	0.76	0.59	0.11	0.063	4.0	3.4	0.64	5.6	27.5	23	0.90	
				3	0-10		2.3	5.0	4.0	0.56	0.33	0.25	0.046	2.9	2.5	0.45	4.1	28.9	20	1.0	
				4	0-10		2.4	4.7	3.7	0.28	0.54	0.20	0.040	4.1	3.3	0.80	5.1	20.6	22	0.84	
				5	0-10		3.4	5.1	4.0	1.3	0.67	0.27	0.086	2.7	2.0	0.65	5.0	46.8	30	1.4	
				1	10-20		2.4	4.8	3.8	0.23	0.36	0.29	0.053	4.0	3.5	0.53	4.9	19.1	16	0.72	
				2	10-20		2.1	4.8	3.7	0.33	0.53	0.12	0.053	3.8	3.3	0.53	4.8	21.3	15	0.64	
				3	10-20		2.1	5.0	4.0	0.27	0.30	0.26	0.046	3.0	2.6	0.38	3.9	22.4	14	0.69	
				4	10-20		2.3	4.8	3.8	0.12	0.40	0.22	0.051	3.9	3.3	0.63	4.7	16.9	17	0.78	
				5	10-20		2.2	5.2	4.1	0.61	0.36	0.17	0.073	2.5	2.2	0.35	3.7	32.6	15	0.75	
			1	0-10	3.1	4.7	3.7	0.38	0.41	0.24	0.12	4.5	3.8	0.71	5.7	20.2	34	1.6			
			2	0-10	2.9	5.0	4.2	0.16	0.24	0.26	0.061	3.3	2.9	0.44	4.0	17.9	29	1.4			
			3	0-10	2.9	5.0	4.0	0.62	0.47	0.25	0.076	3.4	2.7	0.65	4.8	29.6	27	1.4			
			4	0-10	3.3	4.8	3.9	0.89	0.63	0.26	0.071	4.1	3.3	0.80	6.0	30.8	41	2.0			
			5	0-10	2.1	4.8	3.9	0.074	0.17	0.13	0.02	3.6	3.0	0.52	3.9	10.0	16	0.73			
			1	10-20	2.3	5.1	4.0	0.28	0.33	0.24	0.078	3.2	2.8	0.42	4.2	22.3	16	0.77			
			2	10-20	1.9	4.9	4.1	0.044	0.13	0.20	0.043	2.9	2.4	0.46	3.3	12.6	9.3	0.41			
			3	10-20	2.3	5.1	4.1	0.19	0.25	0.18	0.051	3.2	2.8	0.39	3.9	17.1	15	0.79			
			4	10-20	2.3	4.9	4.1	0.15	0.26	0.15	0.038	3.1	2.7	0.40	3.7	15.9	22	1.1			
			5	10-20	2.2	4.9	4.1	0.050	0.13	0.13	0.026	3.2	2.8	0.46	3.6	9.3	11	0.53			

Sample No	Location	Soil type	Plot No.	Sub-plot No	Layer analysed (cm)	Repeat analysis	Moisture content		pH		Exchangeable base cations				Ex-acidity	Ex-acid cations		ECEC	Base saturation	Total C	Total N
							(wt%)	H ₂ O	KCl	Ca	Mg	K	Na	Al		H					
							(cmol(+) kg ⁻¹)										%		(g kg ⁻¹)		
	Banryu-2	Cambisols	1	1	0-10	2	3.4	4.8	3.7	0.59	0.60	0.33	0.077	4.2	3.6	0.58	5.8	27.4	30	1.5	
				2	0-10		2.5	4.7	3.7	0.79	0.61	0.13	0.069	4.0	3.5	0.47	5.6	28.6	24	1.1	
				3	0-10		2.3	5.0	4.0	0.58	0.32	0.26	0.052	2.8	2.5	0.38	4.1	29.8	21	1.1	
				4	0-10		2.4	4.7	3.7	0.28	0.50	0.21	0.052	3.9	3.4	0.58	5.0	21.0	25	1.1	
				5	0-10		3.4	5.1	4.1	1.4	0.65	0.27	0.10	2.6	2.3	0.32	5.0	48.3	32	1.6	
				1	10-20		2.4	4.8	3.7	0.28	0.39	0.29	0.055	4.2	3.7	0.52	5.2	19.6	18	0.90	
				2	10-20		2.1	4.8	3.7	0.28	0.50	0.11	0.050	3.7	3.2	0.50	4.6	20.4	17	0.78	
				3	10-20		2.1	5.1	4.0	0.31	0.30	0.25	0.044	3.0	2.6	0.37	3.9	23.4	16	0.85	
				4	10-20		2.3	4.8	3.8	0.096	0.39	0.21	0.040	3.8	3.3	0.48	4.5	16.4	15	0.80	
				5	10-20		2.2	5.3	4.0	0.58	0.35	0.17	0.079	2.7	2.4	0.27	3.9	30.5	15	0.78	
			1	0-10	3.1	4.7	3.8	0.40	0.42	0.27	0.13	4.5	3.9	0.63	5.7	21.4	37	1.9			
			2	0-10	2.9	5.0	4.2	0.14	0.22	0.27	0.059	3.0	2.6	0.40	3.6	18.7	28	1.5			
			3	0-10	2.9	5.0	4.0	0.61	0.44	0.24	0.073	3.2	2.8	0.42	4.6	29.6	30	1.7			
			4	0-10	3.3	4.8	3.9	0.90	0.62	0.27	0.062	3.9	3.4	0.50	5.8	32.1	46	2.4			
			5	0-10	2.1	4.8	4.0	0.070	0.16	0.13	0.030	3.7	3.1	0.57	4.1	9.4	16	0.89			
			1	10-20	2.3	5.1	3.9	0.25	0.32	0.24	0.077	3.4	2.9	0.47	4.3	20.8	16	0.85			
			2	10-20	1.9	4.9	4.0	0.031	0.13	0.20	0.032	2.9	2.6	0.32	3.3	11.6	9.4	0.49			
			3	10-20	2.3	5.1	4.2	0.19	0.25	0.18	0.054	3.3	2.9	0.36	3.9	17.0	16	0.89			
			4	10-20	2.3	4.9	4.0	0.10	0.18	0.13	0.026	3.2	2.8	0.41	3.7	11.8	22	1.1			
			5	10-20	2.2	4.9	4.0	0.034	0.11	0.13	0.028	3.2	2.8	0.40	3.5	8.9	11	0.61			

Date

Parameter	1st	2nd
Moisture content	Jan 10-11	-
pH(H ₂ O)	Jan 10-12	Feb 10
pH(KCl)	Jan 10-12	Feb 10
Ex-base cation	Jan 22-25	Feb 12-15
Ex-acid cation	Jan 31-Feb 1	Feb 15-17
Total C & N	Jan 15-19	Feb 14-18

Table 5.5 b-2) Soil chemical analysis: Iwami RFP (Lake Banryu)

Sampling period: 24 October 2006

Name of analysis laboratory Shimane Agricultural Technology Centre

Sample No	Location	Soil type	Plot No.	Sub-plot No	Layer analysed (cm)	Repeat analysis	Moisture content		pH		Exchangeable base cations				Ex-acidity	Ex-acid cations		ECEC	Base saturation	Total C	Total N	
							(wt%)	H ₂ O	KCl	Ca	Mg	K	Na	Al		H						
								(cmol(+) kg ⁻¹)							%		(g kg ⁻¹)					
	Iwami Rinku Factory Park	Acrisols	3	1	0-10	1	6.1	4.6	3.8	1.2	0.54	0.29	0.071	6.5	5.6	0.89	8.6	24.4	49	2.5		
				2	0-10		3.8	4.3	3.5	0.026	0.32	0.30	0.059	5.8	5.0	0.85	6.5	10.8	26	1.2		
				3	0-10		3.8	4.3	3.5	0.15	0.38	0.28	0.039	8.2	7.0	1.2	9.0	9.3	33	1.7		
				4	0-10		7.3	4.5	3.7	0.25	0.40	0.32	0.051	5.6	5.0	0.57	6.6	15.5	64	3.9		
				5	0-10		6.3	4.7	4.0	0.49	0.27	0.30	0.065	5.4	4.5	0.92	6.6	17.1	56	3.1		
			3	Acrisols	3	1	10-20	1	5.0	4.6	3.8	0.62	0.38	0.21	0.063	7.0	6.1	0.92	8.3	15.5	35	1.7
						2	10-20		3.7	4.5	3.6	0.026	0.25	0.27	0.076	6.0	5.0	1.0	6.6	9.5	18	0.79
						3	10-20		4.2	4.4	3.5	0.15	0.35	0.28	0.038	7.7	6.6	1.1	8.5	9.5	26	1.3
						4	10-20		4.3	4.6	3.8	0.17	0.42	0.32	0.044	6.2	5.5	0.79	7.2	13.3	35	1.9
						5	10-20		4.2	4.6	3.9	0.12	0.18	0.21	0.046	6.0	5.2	0.81	6.6	8.3	23	1.1
			4	Acrisols	4	1	0-10	1	6.0	4.3	3.5	0.33	0.41	0.22	0.075	11	9.5	1.1	12	9.0	38	1.8
						2	0-10		4.4	4.1	3.2	0.30	0.42	0.17	0.10	9.7	8.1	1.6	11	9.3	47	2.1
						3	0-10		7.0	4.5	3.6	0.75	0.51	0.32	0.070	10	9.1	1.2	12	13.8	61	3.1
						4	0-10		4.5	4.5	3.5	1.0	0.60	0.33	0.067	9.0	7.8	1.2	11	18.5	42	2.1
						5	0-10		4.1	4.7	3.9	0.28	0.28	0.25	0.066	6.6	5.5	1.1	7.5	11.8	36	1.6
			4	Acrisols	4	1	10-20	1	4.5	4.4	3.6	0.20	0.35	0.20	0.088	9.4	8.1	1.3	10	8.2	26	1.2
						2	10-20		3.6	4.5	3.6	0.11	0.28	0.16	0.090	7.3	6.3	1.0	8.0	8.1	22	0.97
						3	10-20		5.0	4.5	3.7	0.23	0.29	0.23	0.050	9.7	8.6	1.1	10	7.5	30	1.4
						4	10-20		4.5	4.7	3.7	0.46	0.37	0.27	0.059	7.8	6.9	0.91	9.0	12.9	30	1.5
						5	10-20		3.5	4.8	3.9	0.21	0.21	0.25	0.066	6.1	5.3	0.88	6.9	10.6	23	1.0

Sample No	Location	Soil type	Plot No.	Sub-plot No	Layer analysed (cm)	Repeat analysis	Moisture content		pH		Exchangeable base cations				Ex-acidity	Ex-acid cations		ECEC	Base saturation	Total C	Total N	
							(wt%)	H ₂ O	KCl	Ca	Mg	K	Na	Al		H						
								(cmol(+) kg ⁻¹)							%		(g kg ⁻¹)					
	Iwami Rinku Factory Park	Acrisols	3	1	0-10	2	6.1	4.6	3.8	1.2	0.53	0.30	0.076	6.3	5.6	0.74	8.4	25.3	51	2.8		
				2	0-10		3.8	4.3	3.5	0.036	0.32	0.33	0.070	5.7	5.0	0.78	6.5	11.7	27	1.4		
				3	0-10		3.8	4.3	3.4	0.16	0.39	0.29	0.049	8.4	7.3	1.1	9.3	9.5	29	1.6		
				4	0-10		7.3	4.5	3.7	0.30	0.44	0.37	0.066	6.3	5.4	0.82	7.4	15.8	70	4.3		
				5	0-10		6.3	4.7	4.0	0.50	0.29	0.31	0.071	5.7	5.0	0.75	6.9	17.0	58	3.3		
			3	Acrisols	3	1	10-20	2	5.0	4.6	3.8	0.65	0.36	0.22	0.075	6.7	5.9	0.80	8.0	16.3	34	1.7
						2	10-20		3.7	4.4	3.7	0.018	0.26	0.26	0.084	5.6	4.9	0.75	6.2	9.9	18	0.91
						3	10-20		4.2	4.4	3.6	0.12	0.32	0.27	0.037	7.5	6.7	0.80	8.3	9.0	22	1.2
						4	10-20		4.3	4.6	3.9	0.15	0.43	0.33	0.053	6.1	5.5	0.58	7.0	13.7	34	1.9
						5	10-20		4.2	4.5	3.8	0.080	0.17	0.20	0.042	5.9	5.3	0.62	6.4	7.6	23	1.2
			4	Acrisols	4	1	0-10	2	6.0	4.3	3.6	0.38	0.43	0.24	0.088	10	9.3	1.1	12	9.8	39	1.9
						2	0-10		4.4	4.1	3.2	0.29	0.46	0.19	0.12	9.6	8.4	1.2	11	9.9	46	2.1
						3	0-10		7.0	4.5	3.6	0.72	0.47	0.32	0.082	10	9.5	0.95	12	13.2	59	3.1
						4	0-10		4.5	4.5	3.5	1.0	0.58	0.35	0.074	8.9	7.9	0.96	11	18.6	44	2.4
						5	0-10		4.1	4.7	3.9	0.27	0.27	0.26	0.070	6.4	5.5	0.83	7.2	12.1	37	1.8
			4	Acrisols	4	1	10-20	2	4.5	4.4	3.6	0.21	0.35	0.20	0.081	9.1	8.1	0.96	9.9	8.5	27	1.4
						2	10-20		3.6	4.5	3.7	0.097	0.28	0.16	0.089	7.3	6.6	0.78	8.0	7.8	23	1.1
						3	10-20		5.0	4.5	3.7	0.19	0.28	0.23	0.058	9.9	8.9	0.98	11	7.2	34	1.6
						4	10-20		4.5	4.6	3.7	0.47	0.32	0.25	0.046	7.8	7.0	0.81	8.9	12.2	30	1.6
						5	10-20		3.5	4.7	3.9	0.17	0.20	0.24	0.065	6.0	5.3	0.72	6.7	10.1	24	1.2

Date

Parameter	1st	2nd
Moisture content	Jan 10-11	-
pH(H ₂ O)	Jan 10-12	Feb 10
pH(KCl)	Jan 10-12	Feb 10
Ex-base cation	Jan 22-25	Feb 12-15
Ex-acid cation	Jan 31-Feb 1	Feb 15-17
Total C & N	Jan 15-19	Feb 14-18

Table 5.5 b-3) Soil chemical analysis: other parameters in Lake Banryu

Sampling period: 24 October 2006

Name of analysis laboratory: Shimane Agricultural Technology Center

Sample No.	Location	Soil type	Plot No.	Subplot No.	Layer analyzed (cm)	Repeat analysis	Available phosphate	Sulfate	Repeat analysis	Available phosphate	Sulfate
							(Pmg kg ⁻¹)	(Smg kg ⁻¹)		(Pmg kg ⁻¹)	(Smg kg ⁻¹)
	Banryu-2	Cambisols	1	1	0-10	1	1.1	28	2	1.2	37
				2	0-10		0.67	24		0.84	25
				3	0-10		0.86	23		1.1	22
				4	0-10		0.65	27		0.89	25
				5	0-10		1.5	23		1.7	23
			1	10-20	1	1	0.68	35	2	0.86	33
						2	0.44	24		0.56	23
						3	0.71	24		0.68	21
						4	0.70	25		0.78	23
						5	0.92	21		1.1	19
			2	0-10	1	1	1.4	21	2	1.6	21
						2	1.0	46		1.2	49
						3	1.2	21		1.3	20
						4	1.3	22		1.6	22
						5	0.71	33		0.81	33
			2	10-20	1	1	0.90	27	2	0.92	25
						2	0.41	98		0.64	94
						3	0.62	31		0.70	29
						4	1.0	22		1.1	23
						5	0.71	54		0.91	52

Sample No.	Location	Soil type	Plot No.	Subplot No.	Layer analyzed (cm)	Repeat analysis	Available phosphate	Sulfate	Repeat analysis	Available phosphate	Sulfate
							(Pmg kg ⁻¹)	(Smg kg ⁻¹)		(Pmg kg ⁻¹)	(Smg kg ⁻¹)
	Iwami Rinku Factory Park	Acrisols	3	1	0-10	1	2.2	53	2	2.7	56
				2	0-10		1.2	51		1.3	57
				3	0-10		1.6	44		1.8	44
				4	0-10		3.7	30		4.7	30
				5	0-10		3.6	65		5.3	67
			3	10-20	1	1	1.6	60	2	1.8	59
						2	0.84	62		0.98	57
						3	1.1	50		1.3	46
						4	1.7	40		2.0	36
						5	1.8	77		2.3	78
			4	0-10	1	1	1.8	60	2	2.1	57
						2	1.6	35		2.1	36
						3	2.0	41		2.3	44
						4	1.7	27		2.3	25
						5	1.8	42		1.9	43
			4	10-20	1	1	1.3	70	2	1.4	67
						2	1.2	45		1.2	45
						3	1.2	53		1.2	50
						4	1.1	30		1.4	28
						5	1.2	48		1.5	47

Date

Parameter	1st	2nd
Available phosphate	Jan 22-25	Feb 16-17
Sulfate	Jan 15-19	Feb 14-15

Table 5.5 b-4) Soil chemical analysis: Ijira (Lake Ijira)

Sampling period: 20 October 2006

Name of analysis laboratory: Gifu Prefectural Research Institute of Health and Environment

Sample No	Location	Soil type	Plot No.	Sub-plot No	Layer analysed (cm)	Repeat analysis*	Moisture content		pH		Exchangeable base cations				Ex-acidity	Ex-acid cations		ECEC	Base saturation %
							(wt%)	H ₂ O	KCl	Ca	Mg	K	Na	(cmol(+) kg ⁻¹)	Al	H			
1	Ijira	Cambisols	N	1	0-10	1	2.7	4.2	3.5	0.44	0.24	0.20	0.03	8.38	7.40	0.99	9.29	9.8	
				2			3.1	4.3	3.5	0.29	0.26	0.18	0.05	9.49	8.41	1.07	10.28	7.7	
				3			3.2	4.0	3.3	0.31	0.20	0.20	0.08	11.23	9.75	1.49	12.02	6.6	
				4			2.8	4.4	3.6	0.30	0.15	0.14	0.11	7.48	6.74	0.74	8.18	8.6	
				5			2.8	4.4	3.7	0.31	0.14	0.15	0.06	6.58	5.55	1.03	7.24	9.1	
1	Ijira		Cambisols	N	1	10-20	1	2.3	4.4	3.7	0.08	0.04	0.15	0.05	5.73	4.71	1.02	6.06	5.4
					2			2.8	4.3	3.7	0.08	0.06	0.17	0.05	6.66	5.51	1.15	7.03	5.2
					3			2.8	4.3	3.6	0.06	0.09	0.14	0.05	8.27	7.24	1.03	8.60	3.9
					4			2.3	4.5	3.7	0.05	0.04	0.11	0.09	5.32	4.17	1.15	5.61	5.2
					5			2.7	4.5	3.8	0.06	0.07	0.16	0.05	5.75	4.93	0.82	6.09	5.5
2	Ijira	Cambisols		S	1	0-10	1	3.1	4.3	3.6	0.30	0.22	0.21	0.06	7.30	6.35	0.95	8.09	9.8
					2			3.4	4.1	3.5	0.27	0.23	0.19	0.03	9.68	8.31	1.36	10.40	6.9
					3			3.4	4.2	3.6	0.39	0.27	0.24	0.02	8.06	6.82	1.24	8.98	10.2
					4			3.5	4.3	3.5	0.37	0.34	0.23	0.04	7.45	6.50	0.95	8.44	11.7
					5			3.3	4.4	3.5	0.18	0.25	0.19	0.02	8.52	7.48	1.03	9.15	7.0
2	Ijira		Cambisols	S	1	10-20	1	2.8	4.6	3.8	0.06	0.05	0.16	0.01	5.39	4.61	0.78	5.66	4.8
					2			2.9	4.5	3.7	0.04	0.06	0.13	0.01	5.52	4.86	0.66	5.76	4.1
					3			3.1	4.4	3.8	0.03	0.04	0.17	0.02	5.16	4.41	0.74	5.42	4.9
					4			3.3	4.6	3.8	0.08	0.07	0.16	0.01	5.37	4.67	0.70	5.68	5.4
					5			3.2	4.5	3.6	0.04	0.06	0.14	0.01	5.37	4.71	0.66	5.62	4.5

Sample No	Location	Soil type	Plot No.	Sub-plot No	Layer analysed (cm)	Repeat analysis*	Moisture content		pH		Exchangeable base cations				Ex-acidity	Ex-acid cations		ECEC	Base saturation %
							(wt%)	H ₂ O	KCl	Ca	Mg	K	Na	(cmol(+) kg ⁻¹)	Al	H			
1	Ijira	Cambisols	N	1	0-10	2	2.6	4.2	3.5	0.45	0.26	0.22	0.03	8.21	7.10	1.11	9.16	10.4	
				2			3.4	4.2	3.5	0.38	0.30	0.20	0.02	9.72	8.31	1.41	10.61	8.5	
				3			3.5	3.9	3.2	0.33	0.39	0.19	0.01	11.92	10.06	1.86	12.85	7.2	
				4			3.1	4.4	3.6	0.29	0.17	0.15	0.03	7.55	6.64	0.91	8.18	7.8	
				5			3.0	4.4	3.7	0.31	0.16	0.16	0.03	6.92	6.10	0.82	7.57	8.6	
1	Ijira		Cambisols	N	1	10-20	2	2.3	4.4	3.7	0.07	0.04	0.15	0.01	6.18	5.36	0.82	6.45	4.2
					2			2.8	4.3	3.7	0.06	0.06	0.15	0.01	6.50	5.68	0.82	6.78	4.2
					3			2.7	4.3	3.6	0.05	0.08	0.15	0.01	6.99	6.16	0.82	7.28	4.0
					4			2.3	4.6	3.7	0.03	0.03	0.10	0.03	5.07	4.34	0.74	5.26	3.5
					5			2.6	4.6	3.8	0.04	0.05	0.13	0.01	5.38	4.64	0.74	5.61	4.1
2	Ijira	Cambisols		S	1	0-10	2	3.2	4.3	3.6	0.33	0.23	0.22	0.07	7.51	6.56	0.95	8.37	10.2
					2			3.5	4.2	3.5	0.30	0.25	0.20	0.05	9.53	8.04	1.49	10.32	7.7
					3			3.6	4.2	3.5	0.36	0.22	0.21	0.03	7.71	6.84	0.87	8.52	9.6
					4			4.1	4.3	3.5	0.46	0.36	0.23	0.03	7.62	6.74	0.87	8.70	12.4
					5			3.6	4.4	3.5	0.18	0.24	0.18	0.05	8.82	7.66	1.16	9.47	6.8
2	Ijira		Cambisols	S	1	10-20	2	2.7	4.5	3.7	0.08	0.06	0.18	0.04	6.16	5.59	0.58	6.52	5.5
					2			2.9	4.5	3.7	0.08	0.09	0.14	0.02	4.82	4.24	0.58	5.15	6.4
					3			2.9	4.5	3.6	0.04	0.04	0.19	0.02	5.23	4.69	0.54	5.52	5.3
					4			2.9	4.6	3.7	0.08	0.07	0.16	0.02	6.67	5.80	0.86	7.00	4.8
					5			2.7	4.5	3.8	0.05	0.06	0.14	0.02	6.38	5.76	0.62	6.65	4.1

*. Soil samples were divided into two parts before air-drying, and analysis was carried out for the respective parts independently.

Date		1st	2nd
Moisture content	1	Nov. 13-14	Nov. 13-14
	2	Nov. 28-29	Nov. 28-29
	3	Dec. 4-5	Dec. 4-5
pH	pH(H ₂ O), EC	Dec. 7-11	Dec. 7-11
	pH(KCl)	Dec. 13-14	Dec. 13-14
Ex-base cations		Jan 18-25	Jan 26-Feb 5
Ex-acidity		Dec 18-19	Dec 18-19
Ex-acid cations		Dec 18-19	Dec 18-19

Table 5.5 b-5) Soil chemical analysis: Yamato (Lake Ijira)

Sampling period: 5 October 2006

Name of analysis laboratory: Gifu Prefectural Research Institute of Health and Environment

Sample No	Location	Soil type	Plot No.	Sub-plot No	Layer analysed (cm)	Repeat analysis*	Moisture content		pH		Exchangeable base cations				Ex-acidity		Ex-acid cations		ECEC	Base saturation %
							(wt%)	H ₂ O	KCl	Ca	Mg	K	Na	(cmol(+) kg ⁻¹)	Al	H				
1	Yamato	Andosols	N	1	0-10	1	11.3	4.4	4.0	0.18	0.14	0.21	0.02	0.51	0.45	0.07	1.05	51.4		
				2			11.7	4.4	3.9	0.09	0.15	0.21	0.02	0.70	0.61	0.09	1.16	40.1		
				3			11.5	4.1	3.9	0.34	0.23	0.25	0.04	0.56	0.50	0.05	1.41	60.4		
				4			11.6	4.2	3.7	0.10	0.22	0.26	0.04	0.71	0.63	0.08	1.34	46.5		
				5			13.4	4.0	3.6	0.44	0.30	0.41	0.03	0.68	0.58	0.10	1.86	63.5		
1	Yamato		Andosols	N	1	10-20	1	11.5	4.4	3.9	0.11	0.08	0.16	0.02	0.34	0.27	0.08	0.71	51.9	
					2			11.9	4.4	3.8	0.03	0.06	0.12	0.02	0.45	0.38	0.06	0.67	33.6	
					3			12.2	4.1	3.9	0.10	0.11	0.16	0.04	0.70	0.60	0.10	1.12	37.6	
					4			11.6	4.2	3.7	0.08	0.13	0.20	0.04	0.52	0.44	0.08	0.97	46.4	
					5			13.4	4.0	3.6	0.15	0.16	0.28	0.03	0.55	0.48	0.07	1.17	53.2	
2	Yamato	Andosols		S	1	0-10	1	9.7	4.5	4.0	0.11	0.16	0.18	0.02	0.47	0.37	0.09	0.94	50.4	
					2			10.3	4.6	3.9	0.12	0.23	0.25	0.03	0.55	0.42	0.13	1.19	53.7	
					3			9.7	4.5	3.9	0.22	0.18	0.19	0.04	0.57	0.52	0.05	1.20	52.3	
					4			9.3	4.3	3.9	0.11	0.17	0.20	0.04	0.56	0.48	0.08	1.07	48.0	
					5			10.8	4.3	3.8	0.16	0.23	0.25	0.03	0.56	0.46	0.11	1.24	54.4	
2	Yamato		Andosols	S	1	10-20	1	10.2	4.6	4.0	0.05	0.13	0.16	0.05	0.44	0.38	0.06	0.83	46.8	
					2			10.9	4.6	3.9	0.05	0.13	0.18	0.04	0.42	0.35	0.07	0.81	48.8	
					3			9.6	4.4	3.9	0.11	0.13	0.17	0.03	0.44	0.36	0.08	0.88	50.1	
					4			10.3	4.3	3.9	0.08	0.11	0.16	0.06	0.43	0.34	0.09	0.84	48.9	
					5			11.6	4.2	3.8	0.09	0.14	0.17	0.05	0.41	0.33	0.08	0.86	52.2	

Sample No	Location	Soil type	Plot No.	Sub-plot No	Layer analysed (cm)	Repeat analysis*	Moisture content		pH		Exchangeable base cations				Ex-acidity		Ex-acid cations		ECEC	Base saturation %
							(wt%)	H ₂ O	KCl	Ca	Mg	K	Na	(cmol(+) kg ⁻¹)	Al	H				
1	Yamato	Andosols	N	1	0-10	2	11.1	4.5	4.1	0.14	0.12	0.19	0.04	0.51	0.46	0.05	1.00	48.9		
				2			11.6	4.7	4.1	0.11	0.14	0.20	0.05	0.67	0.58	0.09	1.17	42.9		
				3			11.5	3.8	3.5	0.28	0.20	0.24	0.04	0.54	0.50	0.04	1.30	58.4		
				4			11.6	4.4	4.0	0.13	0.24	0.26	0.04	0.71	0.63	0.08	1.39	48.7		
				5			13.8	4.4	3.9	0.34	0.32	0.38	0.05	0.69	0.59	0.10	1.80	61.5		
1	Yamato		Andosols	N	1	10-20	2	11.1	4.5	4.1	0.07	0.07	0.14	0.04	0.35	0.28	0.06	0.67	48.2	
					2			11.5	4.7	4.0	0.01	0.06	0.11	0.05	0.45	0.38	0.07	0.68	34.2	
					3			12.3	3.8	3.5	0.15	0.15	0.15	0.04	0.73	0.63	0.10	1.23	40.3	
					4			12.0	4.4	4.0	0.07	0.14	0.19	0.04	0.51	0.45	0.06	0.95	46.3	
					5			13.1	4.3	4.0	0.07	0.15	0.25	0.06	0.51	0.45	0.06	1.03	50.4	
2	Yamato	Andosols		S	1	0-10	2	9.7	4.5	4.1	0.12	0.15	0.18	0.02	0.48	0.40	0.09	0.95	49.3	
					2			10.8	4.7	4.1	0.13	0.21	0.25	0.03	0.62	0.54	0.08	1.24	50.1	
					3			10.2	4.5	4.1	0.21	0.20	0.23	0.03	0.55	0.46	0.09	1.22	55.0	
					4			9.5	4.5	4.1	0.10	0.19	0.22	0.02	0.54	0.48	0.06	1.08	49.6	
					5			11.9	4.5	4.1	0.16	0.22	0.28	0.01	0.63	0.52	0.11	1.30	51.6	
2	Yamato		Andosols	S	1	10-20	2	9.9	4.5	4.1	0.07	0.13	0.17	0.07	0.44	0.37	0.07	0.89	50.4	
					2			10.9	4.7	4.0	0.07	0.16	0.21	0.05	0.44	0.36	0.08	0.93	52.6	
					3			9.5	4.6	3.5	0.11	0.10	0.16	0.02	0.44	0.37	0.07	0.83	47.0	
					4			9.9	4.5	4.0	0.04	0.11	0.17	0.02	0.40	0.34	0.07	0.75	46.6	
					5			11.5	4.5	4.0	0.07	0.12	0.16	0.02	0.40	0.31	0.08	0.76	47.8	

*. Soil samples were divided into two parts before air-drying, and analysis was carried out for the respective parts independently.

Date		1st	2nd
Moisture content	1	Oct. 30-31	Oct. 30-31
	2	Nov. 1-2	Nov. 1-2
	3	Nov. 8-9	Nov. 8-9
pH	pH(H ₂ O), EC	Nov. 6-10	Nov. 6-10
	pH(KCl)	Nov. 15-17	Nov. 15-17
Ex-base cations		Dec. 21-26	Jan. 9-17
Ex-acidity		Nov. 24-Dec. 1	Nov. 24-Dec. 1
Ex-acid cations		Nov. 24-Dec. 1	Nov. 24-Dec. 1

Check of the detection limit for AAS: Dec. 15, 2006, Feb. 9, 2007

Table 5.5 c) Soil chemical analysis: Primorskaya

Sampling period: June 25th - 26th, 2006.

Name of analysis laboratory Laboratory of Hydrochemistry and Atmospheric Chemistry, Limnological Institute SB/RAS

Sample No	Location	Soil type	Plot No.	Sub-plot No	Layer analysed (cm)	Repeat analysis	Moisture content (wt%)	pH		Exchangeable base cations				Ex- Na	Ex-acid Al	Ex-acid H	ECEC	Base saturation %	CaCO ₃ %
								H ₂ O	KCl	Ca	Mg	K	Na						
								(cmol(+) kg ⁻¹)											
1	Primorskaya Cedar forest	Umbric Cambisol	12	0	0-10	1	4.73	4.77	2.89	17.19	3.46	0.76	0.1	1.65	*	*	23.2	92.7	-
6				4.17			4.91	2.98	18.51	4.01	1.22	0.13	1.12	*	*	25	95.5	-	
11				5.1			4.65	2.91	24.64	7.22	0.88	0.21	2.03	*	*	35	94.1	-	
16				4.72			4.71	3.02	19.57	4.99	0.72	0.1	1.53	*	*	26.9	94.3	-	
21				14.39			4.53	2.88	20.11	4.81	0.84	0.12	2.03	*	*	27.9	92.8	-	
2				2.86	4.93	3.25	7.65	2.69	0.32	0.1	4.35	*	*	15.1	71.3	-			
7				2.74	4.9	3.02	7.45	5.32	0.25	0.1	3.26	*	*	16.4	80	-			
12				3.98	4.87	2.99	8.13	4.24	0.51	0.12	3.15	*	*	16.2	80.2	-			
17				3.04	4.9	3.11	9.44	3.07	0.42	0.14	2.41	*	*	15.5	84.3	-			
22				3.13	4.69	3.01	10.22	3.53	0.39	0.11	4.35	*	*	18.6	76.6	-			
3				2.94	4.97	3.74	3.48	1.71	0.1	0.12	3.21	*	*	8.6	62.9	-			
8				2.3	4.98	3.58	4.52	3.01	0.12	0.11	2.78	*	*	10.5	73.9	-			
13				2.62	4.91	3.65	5.19	2.73	0.12	0.11	3.22	*	*	11.4	71.5	-			
18				2.57	4.96	3.77	4.89	2.15	0.11	0.15	2.33	*	*	9.6	76	-			
23				2.65	4.87	3.76	4.45	2.56	0.14	0.12	3.26	*	*	10.5	69.2	-			
4				2.63	5.2	4.43	4.17	2.48	0.1	0.15	3.01	*	*	9.9	69.7	-			
9				2.13	5.22	4.52	4.62	3.15	0.1	0.15	2.53	*	*	10.6	75.7	-			
14				2.45	5.12	4.56	4.53	2.44	0.13	0.15	2.26	*	*	9.5	76.3	-			
19				2.21	5.31	4.25	5.21	2.85	0.12	0.17	1.98	*	*	10.3	81.1	-			
24				2.33	5.11	4.31	5.02	2.75	0.12	0.19	2.78	*	*	10.9	74.1	-			
5				2.53	5.36	4.79	5.14	4.09	0.16	0.22	2.87	*	*	12.5	76.9	-			
10				1.87	5.41	4.84	6.84	4.63	0.17	0.26	2.32	*	*	14.2	83.8	-			
15				2.01	5.23	4.77	7.38	6.02	0.22	0.23	2.31	*	*	16.2	85.5	-			
20				1.78	5.34	4.65	6.77	4.99	0.21	0.34	2.05	*	*	14.4	85.5	-			
25				2.21	5.29	4.62	7.01	5.22	0.2	0.24	2.53	*	*	15.2	83.4	-			

Sample No	Location	Soil type	Plot No.	Sub-plot No	Layer analysed (cm)	Repeat analysis	Moisture content (wt%)	pH		Exchangeable base cations				Ex- Na	Ex-acid Al	Ex-acid H	ECEC	Base saturation %	CaCO ₃ %
								H ₂ O	KCl	Ca	Mg	K	Na						
								(cmol(+) kg ⁻¹)											
26	Primorskaya Oak forest	Mollic Leptosol	13	0	0-10	1	5.24	5.65	3.96	24.11	5.63	0.82	0.07	0.8	*	*	31.4	97.5	-
31				4.21			6	4.12	35.74	5.54	0.75	0.13	0.97	*	*	43.1	97.8	-	
36				4.17			5.45	3.84	27.97	4.99	1.11	0.12	1.23	*	*	35.4	96.6	-	
41				4.32			5.54	3.89	39.22	7.7	0.66	0.09	1.5	*	*	49.2	96.9	-	
46				4.66			5.6	3.8	25.42	5.73	1.01	0.13	1.13	*	*	33.4	96.7	-	
27				3.37	5.08	4.21	5.87	1.96	0.36	0.08	1.11	*	*	9.4	88	-			
32				2.58	5.31	4.36	8.21	1.13	0.54	0.11	1.32	*	*	11.3	88.4	-			
37				2.54	5.11	4	7.53	2.41	0.44	0.11	2.25	*	*	12.7	82.6	-			
42				2.47	5.12	4.11	6.65	3.57	0.58	0.11	3.03	*	*	13.9	78.5	-			
47				2.72	5.08	4.12	7.87	3.11	0.53	0.11	3.51	*	*	15.1	77	-			
28				2.52	5.16	4.52	4.68	2.06	0.16	0.1	0.97	*	*	8	87.5	-			
33				2.23	5.41	4.83	4.88	2.51	0.15	0.11	1.12	*	*	8.8	86.9	-			
38				2.31	5.15	4.25	5.41	2.44	0.23	0.14	1.75	*	*	10	82.2	-			
43				2.03	5.24	4.34	6.01	2.04	0.2	0.11	2.53	*	*	10.9	76.7	-			
48				2.06	5.21	4.41	5.54	2.76	0.19	0.1	2.25	*	*	10.8	79.5	-			
29				2.01	5.21	4.77	4.26	2.1	0.13	0.1	0.85	*	*	7.4	89.1	-			
34				1.98	5.53	5.02	4.23	1.99	0.15	0.13	1	*	*	7.5	86.7	-			
39				2.21	5.3	4.76	4.87	3.01	0.14	0.13	1.53	*	*	9.7	84	-			
44				1.78	5.31	4.6	5.41	1.98	0.15	0.13	2.45	*	*	10.1	75.9	-			
49				1.8	5.3	4.75	5.12	2.04	0.15	0.13	1.97	*	*	9.4	79.1	-			
30				1.99	5.25	4.85	5.47	2.83	0.14	0.15	0.75	*	*	9.3	92.4	-			
35				1.79	5.65	5.25	5.32	3.02	0.19	0.21	1.01	*	*	9.8	89.2	-			
40				2	5.32	4.89	6.11	3.77	0.2	0.17	1.27	*	*	11.5	89.1	-			
45				1.77	5.42	4.91	6.78	3.14	0.19	0.22	2.22	*	*	12.6	82	-			
50				1.81	5.35	5	6.88	3.24	0.21	0.19	1.77	*	*	12.3	85.5	-			

Note: -, not found; *, not measured; Repeat analysis was not carried out

Table 5.5 d-1) Soil chemical analysis: Vachiralongkorn Dam

Sampling period: 25 April 2006

Name of analysis laboratory: King Mongkut's University of Technology Thonburi

Sample No.	Location	Soil type	Plot No.	Subplot No.	Layer analyzed (cm)	Repeat* analysis	Moisture content (wt%)	pH		Exchangeable basecations (B)				Ex-acidity (A)		Ex-acid cations		ECEC (A)+(B)	Base saturation %
								H ₂ O	KCl	Ca	Mg	K	Na	Al	H				
								(cmol(+)/kg ⁻¹)											
1	Vachiralongkorn Dam	Ferric Acrisols	1	1	0-10		7.3	6.0	5.1	9.69	1.16	0.04	0.16	0.11	0.09	0.02	11.16	99.0	
2				2	0-10		7.3	6.2	5.3	5.39	0.81	0.02	0.16	0.11	0.09	0.02	6.49	98.3	
3				3	0-10		6.9	6.4	5.2	20.30	3.06	0.16	0.21	0.13	0.11	0.02	23.85	99.5	
4				4	0-10		6.4	6.5	5.6	14.99	1.72	0.06	0.18	0.23	0.11	0.13	17.18	98.6	
5				5	0-10		9.2	6.7	6.1	16.79	3.72	0.24	0.24	0.58	0.16	0.41	21.56	97.3	
6			2	1	0-10		6.5	6.8	5.2	3.96	2.63	0.10	0.24	0.23	0.11	0.13	7.16	96.7	
7				2	0-10		7.2	6.5	5.4	4.68	1.42	0.09	0.23	0.26	0.21	0.04	6.68	96.1	
8				3	0-10		6.6	6.7	5.5	6.15	2.74	0.09	0.25	0.13	0.11	0.02	9.35	98.6	
9				4	0-10		6.9	6.4	5.2	10.74	5.21	0.17	0.28	0.13	0.11	0.02	16.53	99.2	
10				5	0-10		5.4	6.3	5.5	6.84	3.34	0.20	0.29	0.13	0.11	0.02	10.80	98.8	
11			1	1	10-20		6.5	6.3	5.2	7.34	0.61	0.01	0.16	0.11	0.08	0.02	8.22	98.7	
12				2	10-20		7.5	6.4	5.3	4.20	0.84	0.02	0.17	0.11	0.09	0.02	5.34	98.0	
13				3	10-20		6.9	6.4	5.3	15.06	1.95	0.09	0.19	0.13	0.11	0.02	17.42	99.3	
14				4	10-20		6.3	6.7	5.7	12.66	3.68	0.12	0.21	0.23	0.11	0.13	16.91	98.6	
15				5	10-20		8.8	6.9	6.0	7.86	1.24	0.06	0.23	1.14	0.27	0.87	10.53	89.2	
16			2	1	10-20		6.7	6.7	5.2	3.79	1.93	0.05	0.23	0.26	0.21	0.04	6.25	95.9	
17				2	10-20		7.4	6.7	5.5	3.77	1.23	0.06	0.23	0.13	0.11	0.02	5.42	97.6	
18				3	10-20		7.8	6.6	5.3	5.10	1.18	0.04	0.24	0.13	0.11	0.02	6.69	98.1	
19				4	10-20		5.5	6.5	4.9	3.62	1.13	0.04	0.26	0.13	0.11	0.02	5.17	97.6	
20				5	10-20		5.4	6.7	5.6	6.04	1.02	0.06	0.26	0.13	0.11	0.02	7.50	98.3	

Note: Repeat analysis was not carried out.

Sampling period: 2 November 2006

Name of analysis laboratory: King Mongkut's University of Technology Thonburi

Sample No.	Location	Soil type	Plot No.	Subplot No.	Layer analyzed (cm)	Repeat* analysis	Moisture content (wt%)	pH		Exchangeable basecations (B)				Ex-acidity (A)		Ex-acid cations		ECEC (A)+(B)	Base saturation %
								H ₂ O	KCl	Ca	Mg	K	Na	Al	H				
								(cmol(+)/kg ⁻¹)											
1	Vachiralongkorn Dam	Ferric Acrisols	1	1	0-10		7.8	6.5	5.4	7.88	1.61	0.12	0.31	0.26	0.22	0.04	10.2	97.5	
2				2	0-10		8.4	6.3	5.4	16.81	1.17	0.10	0.32	0.13	0.11	0.02	18.5	99.3	
3				3	0-10		8.1	6.5	5.4	7.96	0.83	0.08	0.33	0.49	0.27	0.22	9.7	95.0	
4				4	0-10		6.5	6.5	5.4	15.66	2.14	0.15	0.40	0.25	0.21	0.04	18.6	98.6	
5				5	0-10		9.1	6.6	5.5	15.28	2.50	0.03	0.04	0.19	0.11	0.08	18.0	99.0	
6			2	1	0-10		7.1	6.5	5.9	6.59	3.63	0.01	0.02	0.13	0.11	0.02	10.4	98.8	
7				2	0-10		8.2	6.8	5.6	6.79	1.31	0.00	0.01	0.13	0.11	0.02	8.2	98.4	
8				3	0-10		7.0	6.7	5.5	8.31	3.99	0.05	0.04	0.23	0.11	0.13	12.6	98.1	
9				4	0-10		6.5	6.6	5.3	10.09	4.85	0.08	0.04	0.18	0.11	0.07	15.2	98.8	
10				5	0-10		6.4	7.0	5.6	19.90	2.30	0.06	0.04	0.13	0.11	0.02	22.4	99.4	
11			1	1	10-20		8.0	6.5	5.3	10.34	1.07	0.08	0.30	0.18	0.11	0.08	12.0	98.5	
12				2	10-20		8.5	6.5	5.4	10.24	2.33	0.14	0.34	0.13	0.11	0.02	13.2	99.0	
13				3	10-20		7.7	6.6	5.4	6.06	1.00	0.10	0.35	0.26	0.21	0.04	7.8	96.7	
14				4	10-20		8.4	6.5	5.5	9.94	1.07	0.00	0.05	0.26	0.22	0.04	11.3	97.7	
15				5	10-20		9.0	6.6	5.2	13.45	3.07	0.07	0.02	0.26	0.22	0.04	16.9	98.5	
16			2	1	10-20		8.5	6.8	5.7	6.50	1.83	0.00	0.02	0.13	0.11	0.02	8.5	98.5	
17				2	10-20		6.8	6.8	5.6	10.16	3.18	0.07	0.02	0.13	0.11	0.02	13.5	99.1	
18				3	10-20		6.9	6.6	5.5	16.99	5.14	0.11	0.03	0.36	0.21	0.15	22.6	98.4	
19				4	10-20		8.0	6.7	5.1	5.71	2.85	0.00	0.04	0.18	0.11	0.08	8.8	97.9	
20				5	10-20		8.4	7.0	6.6	30.20	3.68	0.13	0.04	0.24	0.11	0.13	34.3	99.3	

Note: Repeat analysis was not carried out.

Table 5.5 d-2) Soil chemical analysis: Vachiralongkorn Dam (Puye)

Sampling period: 25 April 2006

Name of analysis laboratory: King Mongkut's University of Technology Thonburi

Sample No.	Location	Soil type*	Plot No.	Subplot No.	Layer analyzed (cm)	Repeat analysis	Moisture content (wt%)	pH		Exchangeable basecations (B)				Ex-acidity (A)	Ex-acid cations		ECEC (A)+(B)	Base saturation %
								H ₂ O	KCl	Ca	Mg	K	Na	Al	H			
								(cmol(+)/kg ⁻¹)										
1	Vachiralongkorn Dam (Puye)	USA Texonomy : Haplur-Talff / FAO : Luvisols	3	1	0-10		1.4	5.4	4.1	0.94	0.32	0.01	0.09	0.77	0.30	0.47	2.14	64.0
2				2	0-10		2.0	5.6	5.0	3.35	0.25	0.01	0.10	0.17	0.10	0.07	3.88	95.5
3				3	0-10		1.8	5.3	3.7	0.71	0.32	0.02	0.14	0.85	0.71	0.14	2.03	57.9
4				4	0-10		1.5	5.0	4.0	1.09	0.36	0.03	0.14	1.18	0.86	0.32	2.80	57.7
5				5	0-10		0.9	4.8	3.7	0.12	0.03	0.00	0.14	3.34	2.61	0.72	3.62	7.9
6			3	1	10-20		1.2	5.3	3.8	0.40	0.03	0.00	0.11	1.80	1.41	0.38	2.34	23.3
7				2	10-20		1.7	6.1	5.0	1.87	0.17	0.00	0.10	0.12	0.10	0.02	2.26	94.6
8				3	10-20		1.5	5.2	3.6	0.37	0.20	0.00	0.13	2.28	1.78	0.51	2.98	23.4
9				4	10-20		2.1	4.9	3.8	0.54	0.25	0.03	0.15	3.14	2.44	0.69	4.10	23.6
10				5	10-20		1.9	4.9	3.8	0.17	0.00	0.00	0.15	2.01	1.42	0.59	2.33	13.7

Note: Repeat analysis was not carried out.

Sampling period: 2 November 2006

Name of analysis laboratory: King Mongkut's University of Technology Thonburi

Sample No.	Location	Soil type	Plot No.	Subplot No.	Layer analyzed (cm)	Repeat analysis	Moisture content (wt%)	pH		Exchangeable basecations (B)				Ex-acidity (A)	Ex-acid cations		ECEC (A)+(B)	Base saturation %
								H ₂ O	KCl	Ca	Mg	K	Na	Al	H			
								(cmol(+)/kg ⁻¹)										
1	Vachiralongkorn Dam (Puye)	USA Texonomy : Haplur-Talff / FAO : Luvisols	3	1	0-10		2.5	5.2	3.9	0.71	0.21	0.06	0.25	2.07	1.64	0.43	3.3	37.1
2				2	0-10		3.2	5.1	3.9	0.46	0.11	0.05	0.278	1.34	1.03	0.31	2.2	39.9
3				3	0-10		2.3	5.2	3.9	0.78	0.08	0.03	0.257	1.56	1.18	0.39	2.7	42.3
4				4	0-10		2.1	5.7	4.7	2.10	0.44	0.08	0.277	0.24	0.20	0.04	3.1	92.2
5				5	0-10		2.0	5.8	4.7	1.38	0.16	0.04	0.246	0.24	0.20	0.04	2	88.1
6			3	1	10-20		1.6	4.8	3.8	0.16	0.03	0.04	0.27	3.48	2.69	0.79	4	12.7
7				2	10-20		1.1	5.2	3.8	0.22	0.02	0.03	0.26	2.22	1.51	0.71	2.7	19.1
8				3	10-20		1.3	5.2	3.8	0.40	0.12	0.04	0.263	2.65	2.12	0.53	3	23.5
9				4	10-20		1.6	5.6	4.0	0.38	0.13	0.04	0.265	1.38	1.07	0.31	2	37.3
10				5	10-20		1.7	5.9	4.4	2.59	0.48	0.06	0.25	0.24	0.20	0.04	3.6	93.3

Note: Repeat analysis was not carried out.

Table 5.6 a-1) Description of trees: Jinyunshan-1

Name of Plot: Jinyunshan No.1

Date: 30 October 2006

Survey area 1: radius 7.98 m
(Height > 1.3 m)

Survey area 2: radius 11.28 m
(DBH > 4 cm)

Survey area 3: radius 17.85 m
(DBH > 18 cm)

Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)
1	<i>Michilus pingii</i>	14.8	14.5	58	<i>Symplocos setchuenensis</i>	8.9	4.7	86	<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	30.8	20.7
2	<i>Symplocos setchuenensis</i>	8.9	6.7	59	<i>Pinus massoniana</i>	46.2	23.8	87	<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	37.7	21.8
3	<i>Cunninghamia lanceolata</i>	18.1	15	60	<i>Randia cochinchinensis</i>	6.2	5.5	88	<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	30.7	19.6
4	<i>Cunninghamia lanceolata</i>	15.4	12.7	61	<i>Pinus massoniana</i>	29.9	19.7	89	<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	24.1	16.7
5	<i>Michilus pingii</i>	16.9	12.8	62	<i>Symplocos setchuenensis</i>	6.0	3.8	90	<i>Castanopsis fargesii</i>	39.4	23
6	<i>Symplocos setchuenensis</i>	11.5	6.2	63	<i>Adinandra bockiana</i>	6.5	5.5	91	<i>Michilus pingii</i>	22.1	21.5
7	<i>Pinus massoniana</i>	40.8	21.2	64	<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	38.6	16.7	92	<i>Michilus pingii</i>	21.3	19.2
8	<i>Randia cochinchinensis</i>	3.0	2.2	65	<i>Symplocos setchuenensis</i>	9.8	7.5	93	<i>Pinus massoniana</i>	53.4	26.8
9	<i>Adinandra bockiana</i>	1.9	2.4	66	<i>Cunninghamia lanceolata</i>	20.2	16.6	94	<i>Cunninghamia lanceolata</i>	23.7	21.1
10	<i>Ilex purpurea</i>	1.2	2.3	67	<i>Michilus pingii</i>	26.7	21.2	95	<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	30.4	17.6
11	<i>Symplocos setchuenensis</i>	2.0	2.6	68	<i>Michilus pingii</i>	23.2	17.8	96	<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	25.0	15.9
12	<i>Randia cochinchinensis</i>	2.7	3.3	69	<i>Cunninghamia lanceolata</i>	16.0	13.2	97	<i>Elaeocarpus duclouxii</i>	25.9	13.6
13	<i>Randia cochinchinensis</i>	2.3	2.7	70	<i>Symplocos setchuenensis</i>	6.7	5.8	98	<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	18.7	18.9
14	<i>Elaeocarpus duclouxii</i>	1.3	2	71	<i>Symplocos setchuenensis</i>	8.5	6.5	99	<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	38.5	21.5
15	<i>Symplocos setchuenensis</i>	8.6	8.2	72	<i>Symplocos setchuenensis</i>	10.8	8.2	100	<i>Cunninghamia lanceolata</i>	25.6	14.9
16	<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	17.9	17.6	73	<i>Symplocos setchuenensis</i>	6.5	6.3	101	<i>Symplocos setchuenensis</i>	10.9	11.1
17	<i>Symplocos setchuenensis</i>	9.9	8.2	74	<i>Symplocos setchuenensis</i>	11.6	10.5	102	<i>Symplocos setchuenensis</i>	6.7	8.6
18	<i>Symplocos setchuenensis</i>	5.8	8.3	75	<i>Michilus pingii</i>	13.4	11.9	103	<i>Symplocos setchuenensis</i>	9.4	9.2
19	<i>Symplocos setchuenensis</i>	3.7	6.4	76	<i>Symplocos setchuenensis</i>	12.5	11.5	104	<i>Symplocos setchuenensis</i>	9.5	9.6
20	<i>Elaeocarpus japonicus</i>	5.8	8.5	77	<i>Symplocos setchuenensis</i>	7.3	8.6	105	<i>Symplocos setchuenensis</i>	11.0	9.1
21	<i>Symplocos setchuenensis</i>	2.6	5	78	<i>Symplocos setchuenensis</i>	18.2	12.7				
22	<i>Symplocos setchuenensis</i>	8.0	7.9	79	<i>Symplocos lancifolia</i>	5.4	7.2				
23	<i>Symplocos setchuenensis</i>	4.0	8.2	80	<i>Michilus pingii</i>	23.6	18.6				
24	<i>Symplocos setchuenensis</i>	6.8	9.6	81	<i>Michilus pingii</i>	20.1	19.3				
25	<i>Symplocos setchuenensis</i>	7.0	9.6	82	<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	19.1	16.4				
26	<i>Pinus massoniana</i>	26.1	18.2	83	<i>Cunninghamia lanceolata</i>	17.6	13.8				
27	<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	3.6	5.5	84	<i>Symplocos setchuenensis</i>	6.2	5.4				
28	<i>Diospyros morrisiana</i>	1.7	2.6	85	<i>Symplocos setchuenensis</i>	9.5	7.3				
29	<i>Randia cochinchinensis</i>	5.2	5.8								
30	<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	4.5	8								
31	<i>Elaeocarpus japonicus</i>	24.6	14.6								
32	<i>Symplocos setchuenensis</i>	3.3	4.5								
33	<i>Symplocos setchuenensis</i>	39.8	20.7								
34	<i>Symplocos setchuenensis</i>	10.5	11.3								
35	<i>Symplocos setchuenensis</i>	8.9	9.8								
36	<i>Symplocos lancifolia</i>	8.8	7.5								
37	<i>Cunninghamia lanceolata</i>	3.4	5.9								
38	<i>Symplocos setchuenensis</i>	1.2	2								
39	<i>Randia cochinchinensis</i>	1.9	2.3								
40	<i>Symplocos setchuenensis</i>	8.0	8.6								
41	<i>Symplocos setchuenensis</i>	2.1	3.7								
42	<i>Elaeocarpus japonicus</i>	2.5	4.5								
43	<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	2.3	3.8								
44	<i>Eurya nitida</i>	3.2	4.3								
45	<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	2.1	2.5								
46	<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	24.7	19.1								
47	<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	1.0	2								
48	<i>Symplocos setchuenensis</i>	14.2	12.5								
49	<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	2.4	3.8								
50	<i>Cunninghamia lanceolata</i>	2.3	3.7								
51	<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	2.2	2.5								
52	<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	1.6	2.1								
53	<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	4.0	3.7								
54	<i>Randia cochinchinensis</i>	1.2	2.3								
55	<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	1.5	2.5								
56	<i>Symplocos setchuenensis</i>	8.7	8.1								
57	<i>Michilus pingii</i>	17.5	16.5								

Note: Trees within the survey area 2 were omitted; No. 98 was hacked.

Note: Trees within the survey area 1 were omitted; No. 69 was hacked.

Note: Trees, No. 10, 14, 19, 21, 23, 30, 37, 38, and 42, were hacked; Trees, No. 47 and 50, were died.

Table 5.6 a-2) Description of trees: Jinyunshan-2

Name of Plot: Jinyunshan No.5
 Date: 30 October 2006

Survey area 1: radius 7.98 m
 (Height > 1.3 m)

Survey area 2: radius 11.28 m
 (DBH > 4 cm)

Survey area 3: radius 17.85 m
 (DBH > 18 cm)

Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)
1	<i>Eurya loquaniana</i>	1.3	2.2	39	<i>Michilus pingii</i>	13.4	14.2	50	<i>Elaeocarpus japonicus</i>	41.9	17.1
2	<i>Eurya loquaniana</i>	1.9	2.4	40	<i>Michilus pingii</i>	30.9	23.8	51	<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	35.8	22.6
3	<i>Eurya loquaniana</i>	3.0	2.4	41	<i>Adinandra bockiana</i>	17.6	16.6	52	<i>Michilus pingii</i>	28.3	21.9
4	<i>Mahoni fortunei</i>	1.2	2.4	42	<i>Symplocos lancifolia</i>	14.2	12.1	53	<i>Michilus pingii</i>	28.4	25.6
5	<i>Eurya loquaniana</i>	1.6	2.3	43	<i>Symplocos setchuenensis</i>	8.1	12.5	54	<i>Michilus pingii</i>	27.9	25.7
6	<i>Michilus pingii</i>	34.5	23.9	44	<i>Symplocos setchuenensis</i>	21.4	19.3	55	<i>Michilus pingii</i>	31.1	26.1
7	<i>Michilus pingii</i>	25.5	24.8	45	<i>Elaeocarpus japonicus</i>	40.0	15.8	56	<i>Michilus pingii</i>	26.0	23.5
8	<i>Michilus pingii</i>	23.2	23.2	46	<i>Symplocos setchuenensis</i>	6.9	11.2	57	<i>Michilus pingii</i>	27.0	23.3
9	<i>Symplocos setchuenensis</i>	3.9	7.7	47	<i>Adinandra bockiana</i>	13.8	10.9	58	<i>Elaeocarpus japonicus</i>	34.7	16.5
10	<i>Elaeocarpus japonicus</i>	1.4	2.5	48	<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	5.8	8.1	59	<i>Castanopsis fargesii</i>	49.4	23.9
11	<i>Elaeocarpus japonicus</i>	1.8	3.3	49	<i>Viburnum sambucinum</i> var. <i>tomentosum</i>	8.1	8.6	60	<i>Quercus fabri</i>	19.1	14.7
12	<i>Michilus pingii</i>	32.4	21.7	Note: Trees within the survey area 1 were omitted.				61	<i>Symplocos setchuenensis</i>	22.8	13.6
13	<i>Michilus pingii</i>	38.9	25.8	62	<i>Michilus pingii</i>	35.1	26.2				
14	<i>Eurya loquaniana</i>	1.8	3.2	63	<i>Michilus pingii</i>	37.9	26.4				
15	<i>Symplocos botryantha</i>	4.2	2.6	64	<i>Michilus pingii</i>	23.0	20.3				
16	<i>Symplocos setchuenensis</i>	19.6	15.3	65	<i>Michilus pingii</i>	10.3	12.4				
17	<i>Symplocos setchuenensis</i>	1.1	2.3	66	<i>Michilus pingii</i>	9.3	10.5				
18	<i>Symplocos setchuenensis</i>	5.0	3.5	67	<i>Symplocos setchuenensis</i>	7.9	7.6				
19	<i>Symplocos setchuenensis</i>	3.0	5.2	68	<i>Symplocos setchuenensis</i>	9.4	6.3				
20	<i>Symplocos lancifolia</i>	3.7	6.5	69	<i>Michilus pingii</i>	18.6	12.8				
21	<i>Symplocos setchuenensis</i>	3.4	4.8	70	<i>Elaeocarpus japonicus</i>	37.6	14.8				
22	<i>Symplocos setchuenensis</i>	3.4	4.7	71	<i>Symplocos lancifolia</i>	13.9	10.8				
23	<i>Symplocos lancifolia</i>	3.7	4.3	73	<i>Symplocos lancifolia</i>	13.8	8.9				
24	<i>Quercus fabri</i>	25.4	21.5	74	<i>Adinandra bockiana</i>	14.5	12.4				
25	<i>Elaeocarpus japonicus</i>	28.5	19.7	75	<i>Symplocos lancifolia</i>	13.8	9.6				
26	<i>Symplocos setchuenensis</i>	2.3	2.3	76	<i>Symplocos setchuenensis</i>	20.4	13.6				
27	<i>Stranvaesia tomentosa</i>	1.2	2.5	Note: Trees within the survey area 2 were omitted; Trees, No. 60, 64, and 75, were hacked.							
28	<i>Symplocos setchuenensis</i>	4.0	5.3								
29	<i>Symplocos lancifolia</i>	15.6	12.2								
30	<i>Quercus fabri</i>	21.4	14.6								
31	<i>Adinandra bockiana</i>	3.6	4.4								
32	<i>Eurya loquaniana</i>	2.5	2.6								
33	<i>Symplocos setchuenensis</i>	3.2	2.3								
34	<i>Vaccinium sprengelii</i>	1.2	2.6								
35	<i>Symplocos setchuenensis</i>	1.1	2.1								
36	<i>Symplocos setchuenensis</i>	0.8	1.9								
37	<i>Eurya loquaniana</i>	2.6	2.5								
38	<i>Eurya loquaniana</i>	1.3	3.1								

Note: Trees, No. 1, 4, 5, 9, 10, 11, 14, 16, 17, 19, 22, 29, 30, 34, 36, and 38, were hacked.

Table 5.6 a-3) Description of trees: Jiwozi (Dabagou)

Name of Plot: Dabagou
 Date: 18 October 2006

**Survey area 1: radius 7.98 m
 (Height > 1.3 m)**

**Survey area 2: radius 11.28 m
 (DBH > 4 cm)**

**Survey area 3: radius 17.85 m
 (DBH > 18 cm)**

Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)
0	<i>Pinus armandi</i>	18.5	10.0	36	<i>Pinus armandi</i>	10.2	6.7	60	<i>Pinus armandi</i>	25.8	15.2
1	<i>Pinus armandi</i>	17.8	13.2	37	<i>Pinus armandi</i>	7.6	8.3	61	<i>Pinus armandi</i>	23.9	14.2
2	<i>Larix gmelini</i>	9.6	12.8	38	<i>Larix gmelini</i>	9.0	7.0	62	<i>Larix gmelini</i>	24.2	14.7
3	<i>Larix gmelini</i>	15.6	13.5	39	<i>Larix gmelini</i>	9.2	9.3	63	<i>Pinus armandi</i>	23.6	16.5
4	<i>Crataegus hupehensis</i>	2.5	3.5	40	<i>Larix gmelini</i>	10.2	8.8	64	<i>Pinus armandi</i>	23.0	13.0
5	<i>Viburnum kansuense</i>	2.2	2.7	41	<i>Quercus aliena</i> var. <i>acuteserrata</i>	7.6	10.2	65	<i>Pinus armandi</i>	22.3	18.5
6	<i>Viburnum betulifolium</i>	1.6	4.2	42	<i>Larix gmelini</i>	10.5	7.5	66	<i>Pinus armandi</i>	21.3	13.5
7	<i>Rosa omeiensis</i>	1.6	2.1	43	<i>Larix gmelini</i>	10.2	8.5	Note: Trees within the survey area 2 were omitted.			
8	<i>Quercus aliena</i> var. <i>acuteserrata</i>	5.0	5.0	44	<i>Larix gmelini</i>	8.3	11.1				
9	<i>Pinus armandi</i>	23.9	15.0	45	<i>Larix gmelini</i>	6.7	9.4	Note: Trees within the survey area 1 were omitted.			
10	<i>Carpinus cordata</i>	2.0	2.8	46	<i>Larix gmelini</i>	8.9	8.2				
11	<i>Quercus aliena</i> var. <i>acuteserrata</i>	3.5	5.0	47	<i>Larix gmelini</i>	13.4	11.5	Note: Trees within the survey area 1 were omitted.			
12	<i>Lespedeza formosa</i>	2.5	3.0	48	<i>Larix gmelini</i>	8.0	8.0				
13	<i>Pinus armandi</i>	23.0	8.6	49	<i>Larix gmelini</i>	26.4	13.5	Note: Trees within the survey area 1 were omitted.			
14	<i>Pinus armandi</i>	19.7	11.6	50	<i>Larix gmelini</i>	6.4	8.5				
15	<i>Pinus armandi</i>	16.0	9.0	51	<i>Pinus armandi</i>	14.3	8.3	Note: Trees within the survey area 1 were omitted.			
16	<i>Pinus armandi</i>	14.3	17.5	52	<i>Larix gmelini</i>	6.4	7.3				
17	<i>Quercus aliena</i> var. <i>acuteserrata</i>	3.8	5.8	52	<i>Larix gmelini</i>	6.1	8.1	Note: Trees within the survey area 1 were omitted.			
18	<i>Elaeagnus henryi</i>	5.4	7.3	54	<i>Larix gmelini</i>	5.4	7.5				
19	<i>Pinus armandi</i>	13.4	10.3	55	<i>Larix gmelini</i>	6.4	7.1	Note: Trees within the survey area 1 were omitted.			
20	<i>Larix gmelini</i>	9.9	8.3	56	<i>Pinus armandi</i>	26.4	18.0				
21	<i>Acer grosseri</i>	4.5	6.0	57	<i>Larix gmelini</i>	6.4	7.0	Note: Trees within the survey area 1 were omitted.			
22	<i>Carpinus cordata</i>	4.5	4.8	58	<i>Larix gmelini</i>	17.5	15.5				
23	<i>Larix gmelini</i>	20.1	12.5	59	<i>Pinus armandi</i>	22.9	13.2	Note: Trees within the survey area 1 were omitted.			
24	<i>Larix gmelini</i>	23.2	14.2	Note: Trees within the survey area 1 were omitted.							
25	<i>Larix gmelini</i>	11.8	11.5								
26	<i>Quercus aliena</i> var. <i>acuteserrata</i>	4.8	7.2	Note: Trees within the survey area 1 were omitted.							
27	<i>Quercus aliena</i> var. <i>acuteserrata</i>	4.8	6.2								
28	<i>Larix gmelini</i>	14.0	12.0	Note: Trees within the survey area 1 were omitted.							
29	<i>Berberis</i>	1.6	3.0								
30	<i>Larix gmelini</i>	7.6	9.1	Note: Trees within the survey area 1 were omitted.							
31	<i>Acer grosseri</i>	3.5	6.7								
32	<i>Prunus venosa</i>	3.2	7.1	Note: Trees within the survey area 1 were omitted.							
33	<i>Celastrus orbiculatus</i>	4.1	8.5								
34	<i>Quercus aliena</i> var. <i>acuteserrata</i>	3.8	5.8	Note: Trees within the survey area 1 were omitted.							
35	<i>Pinus armandi</i>	23.2	12.6								

Table 5.6 a-4) Description of trees: Xiaoping

Name of Plot: XPZ-01

Date: 20 November 2006

**Survey area 1: radius 7.98 m
(Height > 1.3 m)**

**Survey area 2: radius 11.28 m
(DBH > 4 cm)**

**Survey area 3: radius 17.85 m
(DBH > 18 cm)**

Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)
1	<i>Michelia.macclurei</i>	17.7	16.2	1	<i>Michelia.macclurei</i>	20.8	17.6	1	<i>Michelia.macclurei</i>	18.4	17.5
2	<i>Michelia.macclurei</i>	17.5	15.7	2	<i>Michelia.macclurei</i>	20.3	15.8	2	<i>Michelia.macclurei</i>	21.1	16.7
3	<i>Michelia.macclurei</i>	20.0	17.1	3	<i>Michelia.macclurei</i>	18.5	16.7	3	<i>Michelia.macclurei</i>	4.3	6.3
4	<i>Michelia.macclurei</i>	20.1	16.3	4	<i>Michelia.macclurei</i>	18.0	15.1	4	<i>Michelia.macclurei</i>	21.8	17.4
5	<i>Michelia.macclurei</i>	18.1	16.6	5	<i>Michelia.macclurei</i>	21.2	17.8	5	<i>Michelia.macclurei</i>	19.1	15.3
6	<i>Michelia.macclurei</i>	17.2	15.2	6	<i>Michelia.macclurei</i>	21.8	17.3	6	<i>Michelia.macclurei</i>	18.5	16.8
7	<i>Michelia.macclurei</i>	16.7	14.8	7	<i>Michelia.macclurei</i>	18.7	15.9	7	<i>Michelia.macclurei</i>	19.8	17.9
8	<i>Michelia.macclurei</i>	17.5	16.7	8	<i>Sapiumsebiferum</i>	11.5	9.2	8	<i>Michelia.macclurei</i>	19.1	16.7
9	<i>Michelia.macclurei</i>	17.3	17.0	9	<i>Michelia.macclurei</i>	19.3	16.9	9	<i>Michelia.macclurei</i>	18.5	16.5
10	<i>Michelia.macclurei</i>	16.3	14.4	10	<i>Michelia.macclurei</i>	17.7	16.4	10	<i>Michelia.macclurei</i>	19.0	15.7
11	<i>Michelia.macclurei</i>	21.0	17.9	11	<i>Schima superba</i>	9.7	11.2	11	<i>Michelia.macclurei</i>	18.9	16.2
				12	<i>Michelia.macclurei</i>	16.3	15.5	12	<i>Michelia.macclurei</i>	19.4	16.3
				13	<i>Michelia.macclurei</i>	16.8	16.9	13	<i>Schima superba</i>	8.3	8.2
				14	<i>Michelia.macclurei</i>	17.3	17.6	14	<i>Michelia.macclurei</i>	16.5	14.9
				15	<i>Alnus rubra</i>	3.3	5.1	15	<i>Pinus massoniana</i>	7.6	10.1
				16	<i>Michelia.macclurei</i>	17.0	15.9	16	<i>Michelia.macclurei</i>	7.0	7.9
				17	<i>Michelia.macclurei</i>	14.5	6.9	17	<i>Michelia.macclurei</i>	19.4	17.1
				18	<i>Michelia.macclurei</i>	21.4	17.2	18	<i>Michelia.macclurei</i>	18.2	17.0
				19		3.1	3.1	19	<i>Michelia.macclurei</i>	8.6	10.5
				20	<i>Michelia.macclurei</i>	18.3	17.8	20	<i>Michelia.macclurei</i>	15.3	16.1
				21				21	<i>Michelia.macclurei</i>	19.1	17.3
				22				22	<i>Michelia.macclurei</i>	19	18.5
				23				23	<i>Michelia.macclurei</i>	17.4	18.8
				24				24	<i>Michelia.macclurei</i>	19	17.2
				25				25	<i>Michelia.macclurei</i>	18.6	17.4
				26				26	<i>Michelia.macclurei</i>	18.7	15.9
				27				27	<i>Michelia.macclurei</i>	17.1	16.7
				28				28	<i>Michelia.macclurei</i>	18.8	16.6
				29				29	<i>Michelia.macclurei</i>	20.5	17.5
				30				30	<i>Michelia.macclurei</i>	17.5	16.4

Note: Trees within the survey area 1 were omitted; the species name of No. 19 was not identified.

Note: Trees within the survey area 2 were omitted.

Table 5.6 a-5) Description of trees: Zhuxiandong-1

Name of Plot: No.1 plot of Zhuhai (Mixed forest of *Pinus elliottii* and *Acacia confusa*)

Date: 9 December 2006

**Survey area 1: radius 7.98 m
(Height > 1.3 m)**

**Survey area 2: radius 11.28 m
(DBH > 4 cm)**

**Survey area 3: radius 17.85 m
(DBH > 18 cm)**

Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)
1	<i>Pinus elliottii</i>	18.5	7	1	<i>Pinus elliottii</i>	7.0	6	1	<i>Acacia confusa</i>		2.3
2	<i>Pinus elliottii</i>	18.2	11	2	<i>Pinus elliottii</i>	15.8	8	Note: Trees within the survey area 2 were omitted.			
3	<i>Pinus elliottii</i>	17.8	13	3	<i>Pinus elliottii</i>	12.4	10				
4	<i>Pinus elliottii</i>	20.7	7	4	<i>Pinus elliottii</i>	10.5	9				
5	<i>Pinus elliottii</i>	21.3	8	5	<i>Pinus elliottii</i>	16.2	7				
6	<i>Pinus elliottii</i>	18.8	9	6	<i>Pinus elliottii</i>	13.7	6				
7	<i>Acacia confusa</i>	27.4	9	7	<i>Pinus elliottii</i>	13.4	10				
				8	<i>Pinus elliottii</i>	6.4	5				
				9	<i>Pinus elliottii</i>	11.1	5.5	41	<i>Pinus elliottii</i>	9.6	7
				10	<i>Pinus elliottii</i>	11.8	6	42	<i>Pinus elliottii</i>	8.3	6
				11	<i>Pinus elliottii</i>	7.2	6	43	<i>Pinus elliottii</i>	16.2	7
				12	<i>Pinus elliottii</i>	8.3	7	44	<i>Pinus elliottii</i>	10.5	7
				13	<i>Pinus elliottii</i>	9.9	5.5	45	<i>Pinus elliottii</i>	9.6	6.5
				14	<i>Pinus elliottii</i>	12.4	8	46	<i>Pinus elliottii</i>	16.9	6
				15	<i>Pinus elliottii</i>	18.5	6	47	<i>Pinus elliottii</i>	9.9	7
				16	<i>Pinus elliottii</i>	10.5	5.5	48	<i>Pinus elliottii</i>	8.4	7
				17	<i>Pinus elliottii</i>	14.6	10	49	<i>Pinus elliottii</i>	12.7	7.5
				18	<i>Pinus elliottii</i>	7.6	5	50	<i>Pinus elliottii</i>	7.3	4
				19	<i>Pinus elliottii</i>	12.4	7	51	<i>Pinus elliottii</i>	8.4	7
				20	<i>Pinus elliottii</i>	16.6	7	52	<i>Pinus elliottii</i>	11.9	6
				21	<i>Pinus elliottii</i>	8.9	7	53	<i>Pinus elliottii</i>	9.6	6
				22	<i>Pinus elliottii</i>	12.4	7	54	<i>Pinus elliottii</i>	7.0	5
				23	<i>Pinus elliottii</i>	9.9	8	55	<i>Pinus elliottii</i>	12.7	6
				24	<i>Pinus elliottii</i>	6.7	7	56	<i>Pinus elliottii</i>	10.2	3
				25	<i>Pinus elliottii</i>	15.3	9	57	<i>Pinus elliottii</i>	10.2	6.5
				26	<i>Pinus elliottii</i>	17.2	9	58	<i>Pinus elliottii</i>	13.4	6
				27	<i>Pinus elliottii</i>	8.6	8	59	<i>Pinus elliottii</i>	17.2	4
				28	<i>Pinus elliottii</i>	11.9	9	60	<i>Pinus elliottii</i>	13.4	8
				29	<i>Pinus elliottii</i>	11.6	9	61	<i>Pinus elliottii</i>	10.2	4.5
				30	<i>Pinus elliottii</i>	7.6	5.5	62	<i>Pinus elliottii</i>	11.1	8.5
				31	<i>Pinus elliottii</i>	8.9	9	63	<i>Pinus elliottii</i>	13.4	7.5
				32	<i>Pinus elliottii</i>	13.7	8	64	<i>Pinus elliottii</i>	13.4	5
				33	<i>Pinus elliottii</i>	9.7	6	65	<i>Pinus elliottii</i>	14.5	8
				34	<i>Pinus elliottii</i>	13.4	9	66	<i>Pinus elliottii</i>	12.4	7.5
				35	<i>Pinus elliottii</i>	16.2	7	67	<i>Pinus elliottii</i>	13.4	10
				36	<i>Pinus elliottii</i>	11.8	9	68	<i>Pinus elliottii</i>	11.8	9
				37	<i>Pinus elliottii</i>	5.4	6	69	<i>Pinus elliottii</i>	11.5	8.5
				38	<i>Pinus elliottii</i>	14.3	7	70	<i>Acacia confusa</i>	7.3	6
				39	<i>Pinus elliottii</i>	13.2	8.5	Note: Trees within the survey area 1 were omitted.			
				40	<i>Pinus elliottii</i>	8.9	7				

Table 5.6 a-6) Description of trees: Zhuxiandong-2

Name of Plot: No.2 plot of Zhuhai (*Acacia confusa* forest)
Date: 9 December 2006

Survey area 1: radius 7.98 m
(Height > 1.3 m)

Survey area 2: radius 11.28 m
(DBH > 4 cm)

Survey area 3: radius 17.85 m
(DBH > 18 cm)

Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)
1	<i>Acacia confusa</i>	22.13	9.0	1	<i>Machilus velutina</i>	5.73	6.0	1	<i>Acacia confusa</i>		3.0
2	<i>Acacia confusa</i>	19.11	9.0	2	<i>Machilus velutina</i>	5.89	5.5	2	<i>Acacia confusa</i>		5.0
3	<i>Acacia confusa</i>	25.16	9.0	3	<i>Acacia confusa</i>	5.89	5.0	3	<i>Acacia confusa</i>		6.0
4	<i>Acacia confusa</i>	23.73	7.0	4	<i>Acacia confusa</i>	7.23	7.5	4	<i>Acacia confusa</i>		5.5
5	<i>Acacia confusa</i>	12.74	8.0	5	<i>Acacia confusa</i>	10.19	7.0	5	<i>Acacia confusa</i>		5.5
6	<i>Acacia confusa</i>	18.95	8.0	6	<i>Acacia confusa</i>	8.60	7.0	Note: Trees within the survey area 2 were omitted; DBH of the trees was not recorded.			
7	<i>Acacia confusa</i>	18.31	8.0	7	<i>Acacia confusa</i>	5.41	5.0				
8	<i>Acacia confusa</i>	15.92	7.0	8	<i>Acacia confusa</i>	5.41	5.0				
9	<i>Acacia confusa</i>	12.42	7.0	9	<i>Acacia confusa</i>	11.62	7.0				
10	<i>Acacia confusa</i>	14.17	8.0	10	<i>Acacia confusa</i>	9.39	7.0				
11	<i>Acacia confusa</i>	19.27	8.0	11	<i>Acacia confusa</i>	10.51	7.0				
12	<i>Acacia confusa</i>	22.93	8.0	12	<i>Acacia confusa</i>	11.94	7.0				
13	<i>Acacia confusa</i>	11.78	8.0	13	<i>Acacia confusa</i>	8.60	5.0				
14	<i>Acacia confusa</i>	21.66	10.0	14	<i>Acacia confusa</i>	8.60	6.0				
15	<i>Acacia confusa</i>	20.06	7.5	15	<i>Acacia confusa</i>	6.69	6.0				
16	<i>Acacia confusa</i>	19.90	7.5	16	<i>Acacia confusa</i>	12.42	8.0				
				17	<i>Acacia confusa</i>	11.15	11.0				
				18	<i>Acacia confusa</i>	7.96	7.0				
				19	<i>Acacia confusa</i>	12.74	9.0				
				20	<i>Acacia confusa</i>	8.60	6.0				
				21	<i>Acacia confusa</i>	6.69	7.5				
				22	<i>Acacia confusa</i>	10.67	7.5	51	<i>Microcos paniculata</i>	4.78	5.0
				23	<i>Acacia confusa</i>	9.24	7.0	52	<i>Microcos paniculata</i>	4.46	5.0
				24	<i>Acacia confusa</i>	13.54	9.0	53	<i>Microcos paniculata</i>	4.94	2.5
				25	<i>Acacia confusa</i>	15.45	8.0	54	<i>Microcos paniculata</i>	4.46	3.0
				26	<i>Acacia confusa</i>	14.17	7.0	55	<i>Rhaphiolepis indica</i>	4.14	3.0
				27	<i>Acacia confusa</i>	7.17	7.0	56	<i>Syzygium levinei</i>	8.60	4.5
				28	<i>Acacia confusa</i>	7.80	7.0	57	<i>Pithecellobium lucidum</i>	5.41	2.7
				29	<i>Acacia confusa</i>	5.48	4.5	58	<i>Pithecellobium lucidum</i>	6.85	4.0
				30	<i>Acacia confusa</i>	5.57	6.0	59	<i>Pithecellobium lucidum</i>	4.78	3.5
				31	<i>Acacia confusa</i>	17.61	9.0	60	<i>Pithecellobium lucidum</i>	7.96	5.0
				32	<i>Acacia confusa</i>	10.70	7.0	61	<i>Syzygium odoratum</i>	5.41	5.0
				33	<i>Acacia confusa</i>	6.69	7.0	62	<i>Aporosa chinensis</i>	6.85	3.0
				34	<i>Acacia confusa</i>	9.78	8.0	63	<i>Mallotus paniculatus</i>	9.39	7.0
				35	<i>Acacia confusa</i>	12.74	7.0	64	<i>Mallotus paniculatus</i>	5.57	6.0
				36	<i>Acacia confusa</i>	7.64	6.0	65	<i>Litsea rotundifolia</i>	4.14	3.0
				37	<i>Acacia confusa</i>	7.32	7.0	66	<i>Litsea rotundifolia</i>	4.14	5.0
				38	<i>Acacia confusa</i>	6.37	8.0	67	<i>Litsea rotundifolia</i>	7.32	7.0
				39	<i>Acacia confusa</i>	12.42	8.0	68	<i>Litsea rotundifolia</i>	8.76	7.0
				40	<i>Acacia confusa</i>	10.51	8.0	69	<i>Litsea rotundifolia</i>	4.55	3.5
				41	<i>Acacia confusa</i>	11.31	7.0	70	<i>Litsea rotundifolia</i>	4.01	3.5
				42	<i>Acacia confusa</i>	13.54	6.0	71	<i>Litsea rotundifolia</i>	4.20	3.5
				43	<i>Acacia confusa</i>	5.73	5.0	72	<i>Litsea rotundifolia</i>	4.62	3.0
				44	<i>Acacia confusa</i>	16.56	9.0	73	<i>Litsea rotundifolia</i>	4.78	5.0
				45	<i>Acacia confusa</i>	4.78	5.0	74	<i>Litsea rotundifolia</i>	4.78	3.5
				46	<i>Microcos paniculata</i>	6.53	4.0	75	<i>Litsea rotundifolia</i>	5.03	3.0
				47	<i>Microcos paniculata</i>	4.78	5.0	76	<i>Litsea rotundifolia</i>	4.46	3.0
				48	<i>Microcos paniculata</i>	4.62	5.0	77	<i>Fagerlindia depauperata</i>	5.25	3.0
				49	<i>Microcos paniculata</i>	6.11	4.5	78	<i>Fagerlindia depauperata</i>	5.10	4.0
				50	<i>Microcos paniculata</i>	5.10	6.0	Note: Trees within the survey area 1 were omitted.			

Table 5.6 a-7) Description of trees: Zhuxiandong-3

Name of Plot: No.3 plot of Zhuhai(Bush)
Date: 9 December 2006

Survey area 1: radius 7.98 m
(Height > 1.3 m)

Survey area 2: radius 11.28 m
(DBH > 4 cm)

Survey area 3: radius 17.85 m
(DBH > 18 cm)

Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)
No tree species were recorded.				1	<i>Mallotus paniculatus</i>	5.89	3.5	1	<i>Litsea rotundifolia</i>		1.8
				2	<i>Litsea glutinosa</i>	6.21	2.5	2	<i>Litsea rotundifolia</i>		2
				3	<i>Schima superba</i>	12.52	4	3	<i>Litsea rotundifolia</i>		2
				4	<i>Cratoxylum cochinchinense</i>	5.41	3	4	<i>Litsea rotundifolia</i>		2
				5	<i>Archidendron lucidum</i>	14.75	4.5	5	<i>Litsea rotundifolia</i>		2.2
				6	<i>Machilus velutina</i>	9.39	3	6	<i>Rhaphiolepis indica</i>		1.3
				7	<i>Machilus velutina</i>	5.41	4	7	<i>Rhaphiolepis indica</i>		1.6
				8	<i>Sapium discolor</i>	8.12	3.5	8	<i>Rhaphiolepis indica</i>		2
				9	<i>Sapium discolor</i>	5.76	3.2	9	<i>Rhaphiolepis indica</i>		2.5
				10	<i>Sapium discolor</i>	8.28	4.5	10	<i>Rhaphiolepis indica</i>		2.5
				11	<i>Acacia confusa</i>	4.01	5	11	<i>Rhaphiolepis indica</i>		2.8
				12	<i>Acacia confusa</i>	12.26	7	12	<i>Rhaphiolepis indica</i>		3
				13	<i>Acacia confusa</i>	2.23	6	13	<i>Rhaphiolepis indica</i>		3.5
				14	<i>Acacia confusa</i>	7.64	5	14	<i>Baekkea frutescens</i>		2
				15	<i>Acacia confusa</i>	7.17	4	15	<i>Ilex asprella</i>		1.4
				16	<i>Eurya chinensis</i>	3.98	2.8	16	<i>Ilex asprella</i>		1.5
				17	<i>Schefflera heptaphylla</i>	5.73	2.5	17	<i>Ilex asprella</i>		1.5
Note: Trees within the survey area 1 were omitted.				18	<i>Ilex asprella</i>			18	<i>Ilex asprella</i>		1.7
				19	<i>Ilex asprella</i>			19	<i>Ilex asprella</i>		1.8
				20	<i>Ilex asprella</i>			20	<i>Ilex asprella</i>		2.6
				21	<i>Rhodomyrtus tomentosa</i>			21	<i>Rhodomyrtus tomentosa</i>		1.3
				22	<i>Rhodomyrtus tomentosa</i>			22	<i>Rhodomyrtus tomentosa</i>		1.3
Survey area 3 (continued from the right side)				23	<i>Rhodomyrtus tomentosa</i>		1.5	23	<i>Rhodomyrtus tomentosa</i>		1.6
				42	<i>Eurya chinensis</i>		1.65	24	<i>Rhodomyrtus tomentosa</i>		1.6
				43	<i>Eurya chinensis</i>		1.7	25	<i>Rhodomyrtus tomentosa</i>		1.6
				44	<i>Eurya chinensis</i>		3.5	26	<i>Rhodomyrtus tomentosa</i>		1.6
				45	<i>Eurya chinensis</i>		3.5	27	<i>Rhodomyrtus tomentosa</i>		1.6
				46	<i>Eurya chinensis</i>		2.5	28	<i>Rhodomyrtus tomentosa</i>		1.6
				47	<i>Eurya chinensis</i>		2.8	29	<i>Rhodomyrtus tomentosa</i>		1.65
				48	<i>Schefflera heptaphylla</i>		1.6	30	<i>Rhodomyrtus tomentosa</i>		1.7
				49	<i>Melastoma sanguineum</i>		1.7	31	<i>Rhodomyrtus tomentosa</i>		1.7
				50	<i>Melastoma sanguineum</i>		2	32	<i>Rhodomyrtus tomentosa</i>		1.8
				51	<i>Melastoma sanguineum</i>		1.3	33	<i>Rhodomyrtus tomentosa</i>		2
				52	<i>Melastoma sanguineum</i>		1.3	34	<i>Rhodomyrtus tomentosa</i>		2
				53	<i>Melastoma sanguineum</i>		1.4	35	<i>Rhodomyrtus tomentosa</i>		2
				54	<i>Melastoma sanguineum</i>		1.6	36	<i>Rhodomyrtus tomentosa</i>		2.2
				55	<i>Gardenia jasminoides</i>		1.6	37	<i>Rhodomyrtus tomentosa</i>		2.4
				56	<i>Gardenia jasminoides</i>		1.8	38	<i>Rhodomyrtus tomentosa</i>		2.5
Note: Trees within the survey area 2 were omitted; DBH of the species was not recorded.				39	<i>Rhodomyrtus tomentosa</i>			39	<i>Rhodomyrtus tomentosa</i>		2.5
				40	<i>Rhodomyrtus tomentosa</i>			40	<i>Rhodomyrtus tomentosa</i>		2.5

Table 5.6 b-1) Description of trees: Banryu-2 (Lake Banryu)

Name of Plot: Banryu-2

Date: 11-12 October 2006

Survey area 1: radius 7.98 m
(Height > 1.3 m)

Survey area 2: radius 11.28 m
(DBH > 4 cm)

Survey area 3: radius 17.85 m
(DBH > 18 cm)

Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)
1	<i>Ilex integra</i>	22.9	15.8	30	<i>Quercus serrata</i>	18.0	16.2	77	<i>Machilus thunbergii</i>	25.4	14.6
2	<i>Myrica rubra</i>	9.9	7.0	31	<i>Clethra barbinervis</i>	8.0	10.3	78	<i>Dendropanax trifidus</i>	35.8	12.8
3	<i>Symplocos lucida</i>	cut down		32	<i>Machilus thunbergii</i>	16.7	12.7	80	<i>Ilex integra</i>	32.2	11.8
4	<i>Styrax japonica</i>	cut down		33	<i>Machilus thunbergii</i>	25.6	14.1	81	<i>Pinus densiflora</i>	cut down	
5	<i>Lindera umbellata</i>	cut down		34	<i>Machilus thunbergii</i>	22.7	13.6	82	<i>Machilus thunbergii</i>	24.0	14.1
6	<i>Lindera umbellata</i>	cut down		35	<i>Machilus thunbergii</i>	18.7	14.3	83	<i>Quercus serrata</i>	14.3	10.2
7	<i>Ligustrum japonicum</i>	cut down		37	<i>Acanthopanax sciadophylloides</i>	15.4	12.1	84	<i>Machilus thunbergii</i>	18.2	14.5
8	<i>Symplocos lucida</i>	16.0	16.5	38	<i>Pinus densiflora</i>	cut down		85	<i>Daphniphyllum teijsmanni</i>	19.7	10.7
9	<i>Symplocos lucida</i>	20.4	18.5	39	<i>Clethra barbinervis</i>	9.4	9.4	Note: Trees within the survey area 2 were omitted. Trees with No. 83, 84 and 85 were newly added in 2006.			
10	<i>Ligustrum japonicum</i>	cut down		40	<i>Clethra barbinervis</i>	cut down					
11	<i>Eurya pubicalyx</i>	cut down		41	<i>Clethra barbinervis</i>	cut down					
12	<i>Clethra barbinervis</i>	cut down		42	<i>Clethra barbinervis</i>	8.3	9.7				
13	<i>Pieris japonica</i>	cut down		43	<i>Clethra barbinervis</i>	8.2	9.8				
14	<i>Symplocos lucida</i>	cut down		44	<i>Clethra barbinervis</i>	cut down					
15	<i>Machilus thunbergii</i>	cut down		45	<i>Quercus serrata</i>	cut down					
16	<i>Symplocos lucida</i>	cut down		46	<i>Quercus serrata</i>	cut down					
17	<i>Symplocos lucida</i>	cut down		47	<i>Symplocos lucida</i>	cut down					
18	<i>Symplocos lucida</i>	12.2	8.4	48	<i>Clethra barbinervis</i>	cut down					
19	<i>Ligustrum japonicum</i>	cut down		49	<i>Clethra barbinervis</i>	cut down					
20	<i>Ligustrum japonicum</i>	cut down		50	<i>Clethra barbinervis</i>	cut down					
21	<i>Callicarpa mollis</i>	cut down		51	<i>Clethra barbinervis</i>	cut down					
22	<i>Eurya pubicalyx</i>	cut down		52	<i>Lyonia ovalifolia</i>	cut down					
23	<i>Symplocos prunifolia</i>	23.6	14.7	53	<i>Lyonia ovalifolia</i>	cut down					
24	<i>Rhus succedanea</i>	9.5	8.3	54	<i>Clethra barbinervis</i>	11.1	11.7				
25	<i>Symplocos lucida</i>	cut down		55	<i>Lyonia ovalifolia</i>	cut down					
26	<i>Lindera umbellata</i>	cut down		56	<i>Lyonia ovalifolia</i>	cut down					
27	<i>Ligustrum japonicum</i>	cut down		57	<i>Lyonia ovalifolia</i>	cut down					
28	<i>Clethra barbinervis</i>	cut down		58	<i>Ilex pedunculosa</i>	cut down					
29	<i>Clethra barbinervis</i>	cut down		59	<i>Ilex pedunculosa</i>	11.0	12.8				
86	<i>Machilus thunbergii</i>	1.0	1.4	60	<i>Ilex pedunculosa</i>	14.5	13.4				
87	<i>Clethra barbinervis</i>	0.6	1.8	61	<i>Ligustrum japonicum</i>	cut down					
88	<i>Clethra barbinervis</i>	0.7	1.8	62	<i>Pinus densiflora</i>	cut down					
89	<i>Clethra barbinervis</i>	0.4	1.6	63	<i>Machilus thunbergii</i>	22.4	12.1				
Trees from No. 86 to No. 89 were newly added in 2006.				64	<i>Styrax japonica</i>	15.7	13.5				
				65	<i>Machilus thunbergii</i>	19.0	13.2				
				66	<i>Machilus thunbergii</i>	cut down					
				67	<i>Quercus serrata</i>	cut down					
				68	<i>Symplocos lucida</i>	14.5	11.1				
				69	<i>Dendropanax trifidus</i>	14.2	11.5				
				70	<i>Ligustrum japonicum</i>	4.5	6.4				
				71	<i>Machilus thunbergii</i>	20.7	14.6				
				72	<i>Castanopsis cuspidata</i>	20.4	13.5				
				73	<i>Clethra barbinervis</i>	14.3	12.3				
				74	<i>Symplocos lucida</i>	cut down					
				75	<i>Symplocos lucida</i>	9.5	9.3				
				76	<i>Symplocos lucida</i>	11.5	13.4				

Note: Trees within the survey area 1 were omitted.

Table 5.6 b-2) Description of trees: Iwami RFP (Lake Banryu)

Name of Plot: Iwami Rinku Factory Park
Date: 12, 15-16 October 2006

Survey area 1: radius 7.98 m (Height > 1.3 m)				Survey area 2: radius 11.28 m (DBH > 4 cm)				Survey area 3: radius 17.85 m (DBH > 18 cm)			
Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)
1	<i>Ligustrum japonicum</i>	dead		75	<i>Machilus thunbergii</i>	12.6	12.5	112	<i>Machilus thunbergii</i>	20.3	16.3
2	<i>Eurya pubicalyx</i>	1.5	2.2	76	<i>Machilus thunbergii</i>	17.2	16.1	113	<i>Machilus thunbergii</i>	22.3	17.2
3	<i>Eurya pubicalyx</i>	1.5	2.3	77	<i>Machilus thunbergii</i>	10	11.8	114	<i>Machilus thunbergii</i>	26.7	17.4
4	<i>Eurya pubicalyx</i>	1.8	2.8	78	<i>Machilus thunbergii</i>	15.8	16.1	115	<i>Machilus thunbergii</i>	19.4	16.8
5	<i>Symplocos lucida</i>	4.9	5.1	79	<i>Machilus thunbergii</i>	16.5	20.2	116	<i>Machilus thunbergii</i>	32.1	21.0
6	<i>Eurya pubicalyx</i>	dead		80	<i>Machilus thunbergii</i>	20.5	20.2	117	<i>Machilus thunbergii</i>	26.1	17.0
7	<i>Symplocos lucida</i>	2.6	3.5	81	<i>Machilus thunbergii</i>	17.7	19	118	<i>Machilus thunbergii</i>	25.7	17.5
8	<i>Eurya pubicalyx</i>	1.2	1.8	82	<i>Symplocos lucida</i>	4.8	5.6	119	<i>Machilus thunbergii</i>	21.7	15.4
9	<i>Eurya pubicalyx</i>	2.3	2.6	83	<i>Symplocos lucida</i>	8.4	8.3	120	<i>Quercus serrata</i>	22.9	16.7
10	<i>Eurya pubicalyx</i>	1.7	1.4	84	<i>Symplocos lucida</i>	7	7.1	122	<i>Ilex micrococca</i>	27.7	20.5
11	<i>Eurya pubicalyx</i>	1.3	1.9	85	<i>Quercus glauca</i>	6	8.3	123	<i>Machilus thunbergii</i>	26.1	14.0
12	<i>Castanopsis cuspidata</i>	36.3	20.4	86	<i>Quercus glauca</i>	6	8.7	124	<i>Castanopsis cuspidata</i>	51.3	16.8
13	<i>Castanopsis cuspidata</i>	64.8	20.4	87	<i>Symplocos lucida</i>	6.5	6.4	125	<i>Castanopsis cuspidata</i>	25.2	16.8
14	<i>Castanopsis cuspidata</i>	28.9	20.4	88	<i>Symplocos lucida</i>	5.8	4	126	<i>Castanopsis cuspidata</i>	26.3	17.3
15	<i>Castanopsis cuspidata</i>	52.7	20.4	89	<i>Ligustrum japonicum</i>	5.1	4.2	127	<i>Castanopsis cuspidata</i>	27.1	17.6
16	<i>Castanopsis cuspidata</i>	41.5	20.5	90	<i>Ligustrum japonicum</i>	4.6	4.9	128	<i>Castanopsis cuspidata</i>	32.9	17.8
17	<i>Castanopsis cuspidata</i>	2.0	3.0	91	<i>Quercus glauca</i>	9.9	14.5	129	<i>Ilex micrococca</i>	26.7	19.8
18	<i>Castanopsis cuspidata</i>	dead		92	<i>Machilus thunbergii</i>	22.5	13.7	130	<i>Castanopsis cuspidata</i>	24.1	14.2
19	<i>Castanopsis cuspidata</i>	1.9	2.6	93	<i>Machilus thunbergii</i>	27.6	17.6	131	<i>Quercus serrata</i>	27.5	21.0
20	<i>Castanopsis cuspidata</i>	dead		94	<i>Symplocos lucida</i>	11.3	9.4	132	<i>Quercus serrata</i>	26.3	23.0
21	<i>Castanopsis cuspidata</i>	2.2	4.6	95	<i>Quercus serrata</i>	24.4	19.5	133	<i>Castanopsis cuspidata</i>	30.3	19.5
22	<i>Ilex integra</i>	1.6	3.3	96	<i>Myrica rubra</i>	9.6	2.2	134	<i>Castanopsis cuspidata</i>	29.8	19.5
23	<i>Ilex integra</i>	2.8	4.4	97	<i>Myrica rubra</i>	8.6	8	135	<i>Castanopsis cuspidata</i>	26.1	19.8
24	<i>Ilex integra</i>	1.6	2.4	98	<i>Myrica rubra</i>	13.9	10.8	136	<i>Castanopsis cuspidata</i>	47.7	19.8
25	<i>Symplocos lucida</i>	2.0	1.0	99	<i>Quercus serrata</i>	22.5	18.5	137	<i>Quercus serrata</i>	dead	
26	<i>Eurya pubicalyx</i>	1.0	0.8	100	<i>Quercus serrata</i>	27.5	18	138	<i>Machilus thunbergii</i>	22.3	12.6
27	<i>Symplocos lucida</i>	13.1	12.7	102	<i>Quercus serrata</i>	22.1	17.5	139	<i>Machilus thunbergii</i>	23.9	12.5
28	<i>Symplocos lucida</i>	14.1	12.7	103	<i>Quercus serrata</i>	20.2	16	140	<i>Quercus serrata</i>	39.8	15.8
29	<i>Symplocos lucida</i>	7.8	8.1	104	<i>Castanopsis cuspidata</i>	27.3	17.4	141	<i>Machilus thunbergii</i>	22.6	14.2
30	<i>Machilus thunbergii</i>	dead		105	<i>Castanopsis cuspidata</i>	29.7	18.5	142	<i>Quercus serrata</i>	34.2	13.1
31	<i>Machilus thunbergii</i>	9.0	12.1	106	<i>Castanopsis cuspidata</i>	26.2	14.7				
32	<i>Symplocos lucida</i>	8.8	9.0	107	<i>Castanopsis cuspidata</i>	28	14.7				
33	<i>Ilex rotunda</i>	4.1	4.8	108	<i>Castanopsis cuspidata</i>	25	17				
34	<i>Ilex rotunda</i>	2.4	2.1	109	<i>Quercus serrata</i>	26	23				
35	<i>Ilex rotunda</i>	3.0	2.7	110	<i>Quercus serrata</i>	28.3	23.5				
36	<i>Symplocos lucida</i>	11.9	14.9	111	<i>Quercus serrata</i>	17	15.4				
37	<i>Ilex micrococca</i>	27.3	19.8								
38	<i>Ilex micrococca</i>	33.9	17.6								
39	<i>Symplocos lucida</i>	9.6	6.9								
40	<i>Machilus thunbergii</i>	dead									
41	<i>Symplocos lucida</i>	8.5	9.3								
42	<i>Symplocos lucida</i>	4.0	4.4								
43	<i>Rhus succedanea</i>	9.7	11.6								
44	<i>Rhus succedanea</i>	dead									
45	<i>Symplocos lucida</i>	2.4	1.9								
46	<i>Symplocos lucida</i>	4.8	0.3								
47	<i>Symplocos lucida</i>	7.4	6.5								
48	<i>Symplocos lucida</i>	4.9	7.4								
49	<i>Machilus thunbergii</i>	dead									
50	<i>Machilus thunbergii</i>	dead									
52	<i>Machilus thunbergii</i>	dead									
53	<i>Machilus thunbergii</i>	dead									
54	<i>Eurya pubicalyx</i>	dead									
55	<i>Symplocos lucida</i>	5.0	1.6								
56	<i>Symplocos lucida</i>	7.5	7.5								
57	<i>Quercus glauca</i>	3.8	4.8								
58	<i>Symplocos lucida</i>	7.4	8.3								
59	<i>Symplocos lucida</i>	3.4	3.6								
60	<i>Castanopsis cuspidata</i>	30.5	14.1								
61	<i>Castanopsis cuspidata</i>	33.8	19.0								
62	<i>Castanopsis cuspidata</i>	37.8	19.0								
63	<i>Castanopsis cuspidata</i>	30.7	17.8								
64	<i>Symplocos lucida</i>	5.7	5.7								
65	<i>Symplocos lucida</i>	10.0	11.7								
66	<i>Rhus succedanea</i>	10.9	15.3								
67	<i>Rhus succedanea</i>	9.1	14.0								
68	<i>Ligustrum japonicum</i>	5.0	7.9								
69	<i>Symplocos lucida</i>	10.9	10.0								
70	<i>Machilus thunbergii</i>	14.8	12.0								
71	<i>Ilex rotunda</i>	14.2	15.4								
72	<i>Ilex rotunda</i>	5.1	5.7								
73	<i>Ilex rotunda</i>	5.3	2.0								
74	<i>Ilex rotunda</i>	13.6	14.2								
143	<i>Symplocos lucida</i>	19.9	13.0								
144	<i>Machilus thunbergii</i>	1.0	1.9								
145	<i>Eurya pubicalyx</i>	0.3	1.3								

Note: Trees within the survey area 2 were omitted.

Note: Trees within the survey area 1 were omitted.

Note: Dead tree with No. 137 was due to specific disease for Fagaceae tree species (infection of *Raffaelea quercivora* through the beetle, *Platypus quercivorus*). The holes made by beetles were found in trees with No. 95, 100, 102, 103, 109, 110, 133, 134, 135, 136 and 142.

Note. Dead trees had suppressions. Trees from No. 143 to No. 145 were newly added in 2006.

Table 5.6 b-3) Description of trees: Ijira (Lake Ijira)

Name of Plot: Ijira
 Date: 15 December 2006

**Survey area 1: radius 7.98 m
 (Height > 1.3 m)**

**Survey area 2: radius 11.28 m
 (DBH > 4 cm)**

**Survey area 3: radius 17.85 m
 (DBH > 18 cm)**

Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)
1	<i>Chamaecyparis obtusa</i>	15.0	14.0	52	<i>Chamaecyparis obtusa</i>	20.5	12.8	99	<i>Chamaecyparis obtusa</i>	21.6	12.5
2	<i>Chamaecyparis obtusa</i>	12.7	12.9	53	<i>Chamaecyparis obtusa</i>	16.0	12.2	100	<i>Chamaecyparis obtusa</i>	19.0	13.0
3	<i>Chamaecyparis obtusa</i>	15.8	12.9	54	<i>Chamaecyparis obtusa</i>	12.3	9.7	101	<i>Cryptomeria japonica</i>	39.4	19.4
4	<i>Chamaecyparis obtusa</i>	20.4	15.0	55	<i>Chamaecyparis obtusa</i>	7.5	9.2	102	<i>Chamaecyparis obtusa</i>	21.2	15.6
5	<i>Chamaecyparis obtusa</i>	10.2	12.3	56	<i>Chamaecyparis obtusa</i>	9.0	11.7	103	<i>Chamaecyparis obtusa</i>	18.0	12.4
6	<i>Chamaecyparis obtusa</i>	14.3	12.5	57	<i>Chamaecyparis obtusa</i>	16.5	12.3	104	<i>Chamaecyparis obtusa</i>	21.7	14.1
7	<i>Chamaecyparis obtusa</i>	14.2	11.4	58	<i>Chamaecyparis obtusa</i>	9.0	7.1	105	<i>Chamaecyparis obtusa</i>	20.5	13.4
8	<i>Chamaecyparis obtusa</i>	12.9	11.7	59	<i>Chamaecyparis obtusa</i>	12.0	11.7	106	<i>Chamaecyparis obtusa</i>	18.0	12.7
9	<i>Chamaecyparis obtusa</i>	20.4	14.0	60	<i>Chamaecyparis obtusa</i>	11.9	12.5	107	<i>Chamaecyparis obtusa</i>	21.2	16.7
10	<i>Chamaecyparis obtusa</i>	17.7	14.3	61	<i>Chamaecyparis obtusa</i>	10.0	10.9	108	<i>Chamaecyparis obtusa</i>	18.1	14.1
11	<i>Chamaecyparis obtusa</i>	17.1	14.3	62	<i>Chamaecyparis obtusa</i>	16.0	13.6	109	<i>Chamaecyparis obtusa</i>	18.0	11.4
12	<i>Chamaecyparis obtusa</i>	14.6	12.9	63	<i>Chamaecyparis obtusa</i>	8.8	7.2	110	<i>Chamaecyparis obtusa</i>	19.1	13.4
13	<i>Chamaecyparis obtusa</i>	16.3	11.6	64	<i>Chamaecyparis obtusa</i>	14.3	13.2	111	<i>Chamaecyparis obtusa</i>	22.0	12.3
14	<i>Chamaecyparis obtusa</i>	10.9	11.1	65	<i>Chamaecyparis obtusa</i>	16.0	12.8	112	<i>Chamaecyparis obtusa</i>	24.3	12.9
15	<i>Chamaecyparis obtusa</i>	15.6	13.4	66	<i>Chamaecyparis obtusa</i>	16.0	11.8	113	<i>Chamaecyparis obtusa</i>	18.7	15.4
16	<i>Chamaecyparis obtusa</i>	18.0	13.9	67	<i>Chamaecyparis obtusa</i>	11.4	9.5	114	<i>Chamaecyparis obtusa</i>	18.0	14.8
17	<i>Chamaecyparis obtusa</i>	15.4	13.4	68	<i>Chamaecyparis obtusa</i>	10.0	10.3	115	<i>Chamaecyparis obtusa</i>	19.6	15.1
18	<i>Chamaecyparis obtusa</i>	20.0	14.0	69	<i>Chamaecyparis obtusa</i>	20.4	12.8	116	<i>Chamaecyparis obtusa</i>	22.7	15.2
19	<i>Chamaecyparis obtusa</i>	13.2	12.4	70	<i>Chamaecyparis obtusa</i>	16.0	12.8	117	<i>Chamaecyparis obtusa</i>	20.2	14.6
20	<i>Chamaecyparis obtusa</i>	17.0	13.3	71	<i>Chamaecyparis obtusa</i>	23.2	14.0	118	<i>Chamaecyparis obtusa</i>	19.6	13.5
21	<i>Chamaecyparis obtusa</i>	19.1	14.5	72	<i>Chamaecyparis obtusa</i>	11.1	13.1	119	<i>Cryptomeria japonica</i>	23.5	13.7
22	<i>Chamaecyparis obtusa</i>	16.5	13.0	73	<i>Chamaecyparis obtusa</i>	21.1	15.6	120	<i>Chamaecyparis obtusa</i>	20.4	14.0
23	<i>Chamaecyparis obtusa</i>	15.6	12.5	74	<i>Chamaecyparis obtusa</i>	14.5	8.5	121	<i>Chamaecyparis obtusa</i>	18.5	12.6
24	<i>Chamaecyparis obtusa</i>	14.6	12.1	75	<i>Chamaecyparis obtusa</i>	16.6	12.4				
25	<i>Chamaecyparis obtusa</i>	14.5	12.9	76	<i>Chamaecyparis obtusa</i>	17.4	13.0				
26	<i>Chamaecyparis obtusa</i>	10.6	11.5	77	<i>Chamaecyparis obtusa</i>	19.4	14.1				
27	<i>Chamaecyparis obtusa</i>	16.0	14.1	78	<i>Chamaecyparis obtusa</i>	10.7	11.3				
28	<i>Chamaecyparis obtusa</i>	12.0	11.8	79	<i>Chamaecyparis obtusa</i>	14.5	13.2				
29	<i>Chamaecyparis obtusa</i>	12.1	11.9	80	<i>Chamaecyparis obtusa</i>	18.1	14.4				
30	<i>Chamaecyparis obtusa</i>	13.7	11.8	81	<i>Chamaecyparis obtusa</i>	13.7	13.4				
31	<i>Chamaecyparis obtusa</i>	17.8	13.0	82	<i>Chamaecyparis obtusa</i>	17.1	13.9				
32	<i>Chamaecyparis obtusa</i>	18.0	13.2	83	<i>Chamaecyparis obtusa</i>	19.5	15.5				
33	<i>Chamaecyparis obtusa</i>	12.3	12.9	84	<i>Chamaecyparis obtusa</i>	17.2	14.5				
34	<i>Chamaecyparis obtusa</i>	19.0	14.4	85	<i>Chamaecyparis obtusa</i>	19.3	15.9				
35	<i>Chamaecyparis obtusa</i>	17.0	12.6	86	<i>Chamaecyparis obtusa</i>	12.0	13.4				
36	<i>Chamaecyparis obtusa</i>	12.2	12.0	87	<i>Chamaecyparis obtusa</i>	14.4	13.3				
37	<i>Chamaecyparis obtusa</i>	16.4	13.6	88	<i>Chamaecyparis obtusa</i>	15.8	14.0				
38	<i>Chamaecyparis obtusa</i>	12.0	11.5	89	<i>Chamaecyparis obtusa</i>	17.1	13.6				
39	<i>Chamaecyparis obtusa</i>	19.5	14.5	90	<i>Chamaecyparis obtusa</i>	9.5	9.4				
40	<i>Chamaecyparis obtusa</i>	21.0	13.9	91	<i>Chamaecyparis obtusa</i>	17.4	12.1				
41	<i>Chamaecyparis obtusa</i>	12.8	13.0	92	<i>Chamaecyparis obtusa</i>	16.5	12.6				
42	<i>Chamaecyparis obtusa</i>	25.2	16.0	93	<i>Chamaecyparis obtusa</i>	14.5	12.2				
43	<i>Chamaecyparis obtusa</i>	13.9	13.2	94	<i>Chamaecyparis obtusa</i>	15.9	13.5				
44	<i>Chamaecyparis obtusa</i>	15.5	11.2	95	<i>Chamaecyparis obtusa</i>	15.7	10.9				
45	<i>Chamaecyparis obtusa</i>	8.2	9.6	96	<i>Chamaecyparis obtusa</i>	10.5	11.6				
46	<i>Chamaecyparis obtusa</i>	15.4	12.9	97	<i>Chamaecyparis obtusa</i>	14.0	13.8				
47	<i>Chamaecyparis obtusa</i>	16.0	11.8	98	<i>Chamaecyparis obtusa</i>	19.5	14.4				
48	<i>Chamaecyparis obtusa</i>	14.3	10.2								
49	<i>Chamaecyparis obtusa</i>	12.0	12.9								
50	<i>Chamaecyparis obtusa</i>	16.6	13.0								
51	<i>Chamaecyparis obtusa</i>	15.4	11.9								

Note: Trees within the survey area 2 were omitted.

Note: Trees within the survey area 1 were omitted.

Table 5.6 b-4) Description of trees: Yamato (Lake Ijira)

Name of Plot: Yamato
 Date: 3 August 2006

**Survey area 1: radius 7.98 m
 (Height > 1.3 m)**

**Survey area 2: radius 11.28 m
 (DBH > 4 cm)**

**Survey area 3: radius 17.85 m
 (DBH > 18 cm)**

Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)
1	<i>Chamaecyparis obtusa</i>	38.5	27.5	8	<i>Chamaecyparis obtusa</i>	39.3	27.1	19	<i>Chamaecyparis obtusa</i>	39.1	27.8
2	<i>Chamaecyparis obtusa</i>	32.0	dieback	9	<i>Chamaecyparis obtusa</i>	39.8	28.7	20	<i>Chamaecyparis obtusa</i>	34.5	27.0
3	<i>Chamaecyparis obtusa</i>	29.7	25.5	10	<i>Chamaecyparis obtusa</i>	41.2	27.5	21	<i>Chamaecyparis obtusa</i>	37.5	27.2
4	<i>Chamaecyparis obtusa</i>	37.0	29.1	11	<i>Chamaecyparis obtusa</i>	41.9	28.3	22	<i>Chamaecyparis obtusa</i>	36.0	29.2
5	<i>Chamaecyparis obtusa</i>	39.2	27.3	12	<i>Chamaecyparis obtusa</i>	36.7	29.5	23	<i>Chamaecyparis obtusa</i>	38.8	30.4
6	<i>Chamaecyparis obtusa</i>	40.6	27.7	13	<i>Chamaecyparis obtusa</i>	40.5	28.7	24	<i>Chamaecyparis obtusa</i>	40.8	29.4
7	<i>Chamaecyparis obtusa</i>	37.6	27.6	14	<i>Chamaecyparis obtusa</i>	31.2	24.9	25	<i>Chamaecyparis obtusa</i>	38.1	29.2
				15	<i>Chamaecyparis obtusa</i>	32.4	26.1	26	<i>Chamaecyparis obtusa</i>	36.5	28.6
				16	<i>Chamaecyparis obtusa</i>	37.0	29.5	27	<i>Chamaecyparis obtusa</i>	34.3	28.0
				17	<i>Chamaecyparis obtusa</i>	36.3	28.6	28	<i>Chamaecyparis obtusa</i>	44.8	28.4
				18	<i>Chamaecyparis obtusa</i>	34.5	29.0	29	<i>Chamaecyparis obtusa</i>	33.3	25.6
								30	<i>Chamaecyparis obtusa</i>	29.3	28.8
								31	<i>Chamaecyparis obtusa</i>	33.9	25.2
								32	<i>Chamaecyparis obtusa</i>	41.0	28.8
								33	<i>Chamaecyparis obtusa</i>	30.8	26.3
								34	<i>Chamaecyparis obtusa</i>	33.0	26.5
								35	<i>Chamaecyparis obtusa</i>	33.2	27.8
								36	<i>Chamaecyparis obtusa</i>	31.3	23.7
								37	<i>Chamaecyparis obtusa</i>	19.3	27.3
								38	<i>Chamaecyparis obtusa</i>	33.4	27.2
								39	<i>Chamaecyparis obtusa</i>	41.1	29.0
								40	<i>Chamaecyparis obtusa</i>	35.2	28.8
								41	<i>Chamaecyparis obtusa</i>	34.8	28.1
								42	<i>Chamaecyparis obtusa</i>	40.5	28.6
								43	<i>Chamaecyparis obtusa</i>	30.1	24.0
								44	<i>Chamaecyparis obtusa</i>	38.0	28.4
								45	<i>Chamaecyparis obtusa</i>	35.3	27.9
								46	<i>Chamaecyparis obtusa</i>	42.4	29.2
								47	<i>Chamaecyparis obtusa</i>	37.4	28.1
								48	<i>Chamaecyparis obtusa</i>	40.7	28.7

Note: Trees within the survey area 1 were omitted.

Note: Trees within the survey area 2 were omitted.

Table 5.6 c) Description of trees: Primorskaya

Name of Plot: Primorskaya
Date: June 22, 2006

**Survey area 1: radius 7.98 m
(Height > 1.3 m)**

**Survey area 2: radius 11.28 m
(DBH > 4 cm)**

**Survey area 3: radius 17.85 m
(DBH > 18 cm)**

Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)	Serial No.	Species Name	DBH (cm)	Height (m)
1	<i>Acer mono</i>	2.2	3.5	42	<i>Acer mono</i>	9.2	15.0	62	<i>Tilia amurensis</i>	24.7	27.0
2	<i>Pinus koraiensis</i>	2.5	2.5	43	<i>Acer mono</i>	9.2	17.5	63	<i>Fraxinus mandshurica</i>	35.7	27.5
3	<i>Quercus mongolica</i>	9.2	10.5	44	<i>Acer mandshuricum</i>	8.0	10.5	64	<i>Abies holophilla</i>	37.6	23.5
4	<i>Phellodendron amurense</i>	22.3	19.5	45	<i>Acer mono</i>	4.0	7.1	65	<i>Abies holophilla</i>	53.3	31.0
5	<i>Pinus koraiensis</i>	4.8	4.5	46	<i>Acer mono</i>	11.8	17.5	66	<i>Tilia amurensis</i>	33.8	30.5
6	<i>Acer mono</i>	3.2	6.5	47	<i>Acer mono</i>	4.1	7.1	67	<i>Quercus mongolica</i>	40.0	30.0
7	<i>Acer mono</i>	8.0	10.5	48	<i>Acer mono</i>	8.1	17.2	68	<i>Ulmus laciniata</i>	34.1	34.0
8	<i>Pinus koraiensis</i>	1.6	1.7	49	<i>Acer mono</i>	5.7	9.1	69	<i>Fraxinus mandshurica</i>	30.9	32.5
9	<i>Acer mono</i>	3.8	6.7	50	<i>Acer mono</i>	8.3	11.5	70	<i>Fraxinus rhynchophylla</i>	22.3	33.0
10	<i>Acer mono</i>	3.8	5.5	51	<i>Acer mono</i>	9.2	16.0	71	<i>Tilia amurensis</i>	19.7	20.5
11	<i>Acer mono</i>	7.0	10.3	52	<i>Tilia amurensis</i>	9.2	15.5	72	<i>Tilia amurensis</i>	21.7	21.0
12	<i>Fraxinus mandshurica</i>	31.8	25.0	53	<i>Tilia amurensis</i>	13.4	20.5	73	<i>Quercus mongolica</i>	30.9	25.5
13	<i>Acer mono</i>	3.2	7.2	54	<i>Acer mono</i>	7.0	8.4	74	<i>Quercus mongolica</i>	33.4	26.0
14	<i>Acer mono</i>	9.9	15.5	55	<i>Acer mono</i>	4.5	6.1	75	<i>Quercus mongolica</i>	29.0	29.5
15	<i>Acer mono</i>	5.7	18.2	56	<i>Tilia amurensis</i>	20.4	21.0	76	<i>Quercus mongolica</i>	31.8	32.5
16	<i>Acer mono</i>	4.0	5.3	57	<i>Quercus mongolica</i>	24.4	27.0	77	<i>Quercus mongolica</i>	35.7	35.0
17	<i>Ulmus japonica</i>	10.2	10.4	58	<i>Quercus mongolica</i>	26.1	27.2	78	<i>Quercus mongolica</i>	22.6	36.0
18	<i>Acer mono</i>	7.6	12.5	59	<i>Acer mono</i>	8.0	11.7	79	<i>Tilia mandshurica</i>	32.8	32.0
19	<i>Acer mono</i>	8.0	12.1	60	<i>Pinus koraiensis</i>	4.5	4.1	80	<i>Tilia mandshurica</i>	18.5	28.1
20	<i>Acer tegmentosum</i>	4.8	8.2	61	<i>Tilia mandshurica</i>	16.9	18.5	81	<i>Betula mandshurica</i>	23.6	36.2
21	<i>Acer mono</i>	10.2	15.3	Note: Trees within the survey area 1 were omitted.				82	<i>Tilia mandshurica</i>	20.4	31.3
22	<i>Acer mono</i>	2.9	3.5					83	<i>Fraxinus mandshurica</i>	21.0	36.1
23	<i>Quercus mongolica</i>	58.3	31.0	Note: Trees within the survey area 2 were omitted.				84	<i>Tilia amurensis</i>	41.4	37.5
24	<i>Pinus koraiensis</i>	11.5	8.7								
25	<i>Quercus mongolica</i>	43.9	24.0								
26	<i>Quercus mongolica</i>	30.0	23.0								
27	<i>Acer mono</i>	6.7	7.5								
28	<i>Tilia amurensis</i>	43.3	28.0								
29	<i>Acer mono</i>	7.6	12.0								
30	<i>Acer mono</i>	5.1	8.2								
31	<i>Pinus koraiensis</i>	2.9	2.4								
32	<i>Abies holophilla</i>	5.4	3.4								
33	<i>Quercus mongolica</i>	45.9	30.5								
34	<i>Acer mono</i>	6.1	9.5								
35	<i>Acer mono</i>	5.7	8.2								
36	<i>Pinus koraiensis</i>	2.9	2.3								
37	<i>Pinus koraiensis</i>	2.2	2.4								
38	<i>Acer mono</i>	5.4	7.1								
39	<i>Tilia mandshurica</i>	20.4	21.0								
40	<i>Pinus koraiensis</i>	6.1	5.2								
41	<i>Fraxinus mandshurica</i>	16.6	20.5								

Table 5.6 d-1) Description of trees: Vachiralongkorn Dam

Name of plot: Vachiralongkorn Dam

Date: 9 May 2006

Survey area 1: radius 7.98 m

Survey area 2: radius 11.28 m

Survey area 3: radius 17.85 m

erial No	Species Name	DBH (cm)	Height (m)	erial No	Species Name	DBH (cm)	Height (m)	Serial No	Species Name	DBH (cm)	Height (m)
1	Tree (None)			1	<i>Dendrocalamus membranaceus</i> (Paisangnuan.			1	<i>Lagerstroemia tomentosa</i> (Sa lao) (center)	142	43.6, 48.8, 47.5
2	Bamboo species			2	<i>Heteropanax fragrans</i> (Aoy chang)	4.4	3.9	2	<i>Xylia xylocarpa</i> (Daeng, T2)	45	26.5, 28.4
				3	<i>Sterculia guttata</i> (Por Daeng)	5.2	6.4	3	<i>Xylia xylocarpa</i> (Daeng, T1)	49	29.2
				4	<i>Oroxylum indicum</i> (Pe ka)	9.0	8.9	4	<i>Assamicum</i> (Khae mod)	24	20.8
				5	NI	4.2	3.4	5	<i>Heteropanax fragrans</i> (Oi chang)	36	23.5
								6	<i>Millettia branbisiana</i> (Chan)	33	27.1
								7	<i>Vitex limanifolia</i> (Tin nok)	71.3	41.2

Note: DBH < 4 cm; Species name (Thai name); NI, Latin name was not identified.

Note: DBH >4<18 cm; Species name (Thai name); NI, Latin name was not identified.

Note: DBH > 18 cm; Species name (Thai name); NI, Latin name was not identified.

Table 5.6 d-2) Description of trees: Vachiralongkorn Dam (Puye)

Name of plot: Vachiralongkorn (Puye)

Date: 9 May 2006

Survey area 1: radius 7.98 m

Survey area 2: radius 11.28 m

Survey area 3: radius 17.85 m

erial No	Species Name	DBH (cm)	Height (m)	erial No	Species Name	DBH (cm)	Height (m)	Serial No	Species Name	DBH (cm)	Height (m)
1	<i>Baccaurea ramiflora</i> (Mafai)	2.3	2.8	1	<i>Gigantochloa hasskarliana</i> (Pai park) 10 clumps with 51 culms			1	<i>Curcuma aeruginosa</i> (Kamindum) (center)	52.3	38.7
2	<i>Microcos tomentosa</i> (Plubpla)	2.5	4.9	2	<i>Bambusa longispiculata</i> (Pai ta yai) 1 clumps with 3 culms			2	<i>Pterocymbium tinctorium</i> (Po i keng)	36.2	23.5
				3	<i>Dioscorea alata</i> (Munchang)	17.4	17.9	3	<i>Dipterocarpus turbinatus</i> (Yang daeng)	33.1	24.1
				4	<i>Combretum Punctatum</i> (Sakaewan)	4.8	4.8	4	<i>Vitex limonifolia</i> (Sawong)	21.7	13.2
								5	<i>Pterocymbium tinctorium</i> (Po i keng)	22.0	19.2
								6	<i>Microcos tomentosa</i> (Plubpla)	21.0	19.0
								7	NI (Kanieng)	41.7	23.5
								8	<i>Dipterocarpus turbinatus</i> (Yang daeng)	71.0	30, 32, 34
								9	<i>Aphanamixis polystachya</i> (Ta suea)	84.0	32.80, 35
								10	<i>Strychnos nux-blanda</i> (Tumka khao)	77.5	35.8
								11	<i>Artocarpus kemando</i> (Khanun pa)	76.5	46.4

Note: DBH < 4 cm; Species name (Thai name)

Note: DBH >4<18 cm; Species name (Thai name); NI, Latin name was not identified.

Note: DBH > 18 cm; Species name (Thai name); NI, Latin name was not identified.

Table 5.7 a-1) Understory vegetation survey: Jinyunshan-1

Name of Plot: Jinyunshan No.1

Date: 30 October 2006

Number of species: 40

Species Name	Dom.	Species Name	Dom.
<i>Simplocos setchuenensis</i>	2	<i>Stranvaesia tomentosa</i>	+
<i>Lophatherum gracile</i>	3	<i>Dryopteris erythrosora</i>	+
<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	3	<i>Diospyros morrisiana</i>	+
<i>Elaeocarpus duclouxii</i>	+	<i>Embelia rudis</i>	+
<i>Vaccinium sprengelii</i>	+	<i>Myrsine africana</i>	+
<i>Sarcandra glabra</i>	4	<i>Antidesma decicatalum</i>	+
<i>Castanopsis fargesii</i>	+	<i>Arachniodes chinensis</i>	+
<i>Measa japonica</i>	2	<i>Ardisia crenata</i>	+
<i>Diplopterygium chinensis</i>	3	<i>Lysimachia paridiformis</i>	+
<i>Litsea mollis</i>	+	<i>Rhododendron simsii</i>	+
<i>Elaeocarpus japonicus</i>	+	<i>Woodwardia japonica</i>	+
<i>Aralia chinensis</i>	+	<i>Michilus pingii</i>	5
<i>Eurya loquana</i>	+	<i>Alpinia japonica</i>	+
<i>Ardisia crispa</i> var. <i>dielsii</i>	+	<i>Smilax china</i>	+
<i>Camellia tsofuii</i>	+	<i>Symplocos lancifolia</i>	+
<i>Sapium discolor</i>	+	<i>Litsea elongata</i>	+
<i>Lindera kwantungensis</i>	+	<i>Toxicodendron succedaneum</i>	+
<i>Symplocos lancifolia</i>	1	<i>Caesalpinia crista</i>	+
<i>Cunninghamia lanceolata</i>	+	<i>Engelhardtia roxburghiana</i>	+
<i>Randia cochinchinensis</i>	+	<i>Symplocos laurina</i>	+

Table 5.7 a-2) Understory vegetation survey: Jinyunshan-2

Name of Plot: Jinyunshan No.2

Date: 30 October 2006

Number of species: 56

Species Name	Dom.	Species Name	Dom.
<i>Diplopterygium chinensis</i>	1	<i>Photinia glabra</i>	1
<i>Michilus pingii</i>	5	<i>Eurya obtusifolia</i>	+
<i>Castanopsis carlesii</i> var. <i>spinulosa</i>	3	<i>Trachycarpa fortunei</i>	+
<i>Symplocos lancifolia</i>	1	<i>Liriope</i> sp.	+
<i>Symplocos setchuenensis</i>	4	<i>Ardisia crispa</i> var. <i>dielsii</i>	+
<i>Camellia sinensis</i>	+	<i>Ardisia</i> sp.	+
<i>Rubus assamensis</i>	+	<i>Sabia swinboei</i>	+
<i>Measa japonica</i>	1	<i>Mahoni fortunei</i>	+
<i>Embelia rudis</i>	+	<i>Elaeocarpus duclouxii</i>	+
<i>Sarcandra glabra</i>	2	<i>Woodwardia unigemmata</i>	+
<i>Lophatherum gracile</i>	1	<i>Dichroa febrifuga</i>	+
<i>Woodwardia japonica</i>	+	<i>Daphniphyllum oldhami</i>	+
<i>Stranvaesia tomentosa</i>	2	<i>Oplismenus undulatifolius</i>	+
<i>Caesalpinia szechuanensis</i>	1	<i>Alpinia stachyoides</i>	+
<i>Arachniodea omaena</i>	1	<i>Mahonia eurybracteata</i>	+
<i>Dicranopteris pedata</i>	+	<i>Cinnamomum appelianum</i>	2
<i>Myrsine africana</i>	+	<i>Eurya loquaniiana</i>	1
<i>Castanopsis fargesii</i>	+	<i>Oplismenus undulatifolius</i>	+
<i>Elaeocarpus japonicus</i>	+	<i>Neolitsea aurata</i> var. <i>glauca</i>	+
<i>Lysimachia paridifermis</i>	+	<i>Daphniphyllum oldhami</i>	+
<i>Tetrastigma hemsleyanum</i>	+	<i>Alpinia japonica</i>	+
<i>Adinandra bockiana</i>	+	<i>Blumea aromatica</i>	+
<i>Ilex viridis</i> var. <i>brevipedicelata</i>	+	<i>Schefflera delavayi</i>	+
<i>Vernicia fordii</i>	+	<i>Symplocos laurina</i>	+
<i>Symplocos botryantha</i>	+	<i>Sapium discolor</i>	+
<i>Vaccinium sprengelii</i>	+	<i>Litsea mollifolia</i>	+
<i>Microlepis marginata</i>	+	<i>Rubus corchorifolius</i>	+
<i>Mallotus philipponeensis</i>	+	<i>Smilax china</i>	+

Table 5.7 a-3) Understory vegetation survey: Dabagou

Name of Plot: Dabagou

Date: 18 October 2006

Number of species: 13

Species Name	Dom.	Species Name	Dom.
<i>Equisetum hiemale</i>	1	<i>Cardamina leucantha</i>	+
<i>fargesia spathacea</i>	+	<i>Glechoma lonituba</i>	+
<i>chimaphila japonica</i>	+	<i>Celastrus orbiculatus</i>	+
<i>Aquilegia ecalcarata</i>	+	<i>Rubia ovatifolia</i>	+
<i>Sanguisorba officinalis</i>	+	<i>Agrimonia pilosa</i>	+
<i>euonymus alatus</i>	+	<i>rubus masogaeus</i>	+
<i>Reineckea carnea</i>	+		

Table 5.7 a-4) Understory vegetation survey: Xiaoping

Name of Plot: XPZ-01

Date: 20 Nov. 2006

Number of species: 10

Species Name	Dom.	Species Name	Dom.
<i>Sapium sebiferum</i>	2	<i>Lygodium japonicum</i>	1
<i>Adina pilulifera</i>	2	<i>Miscanthus Floridulus</i>	1
<i>Dicranopteris linearis</i>	2	NI	1
<i>Blechum orientale</i>	2	<i>Mussaenda pubescens Ait</i>	1
<i>Diospyros eriantha champ</i>	2	<i>Aquifoliaceae</i>	1

Note: NI, not identified.

Table 5.7 a-5) Understory vegetation survey: Zhuxiandong

Name of Plot: No.1 plot of Zhuhai (Mixed forest of *Pinus elliottii* and *Acacia confusa*)

Date: 8 Dec. 2006

Number of species: 17

Species Name	Dom.	Species Name	Dom.
<i>Raphiolepis indica</i>	1	<i>Psychotria asiatica</i>	1
<i>Eurya nitida</i>	2	<i>Eurya chinensis</i>	1
<i>Mallotus paniculatus</i>	2	<i>Sapium discolor</i>	1
<i>Litsea rotundifolia</i>	2	<i>Litsea glutinosa</i>	1
<i>Dalbergia benthamii</i>	1	<i>Clerodendrum canescens</i>	1
<i>Glochidion lanceolarium</i>	1	<i>Melastoma affine</i>	1
<i>Archidendron lucidum</i>	2	<i>Toxicodendron succedaneum</i>	1
<i>Rhodomyrtus tomentosa</i>	1	<i>Embelia laeta</i>	1
<i>Cratoxylum cochinchinense</i>	1		

Name of Plot: No.2 plot of Zhuhai (*Acacia confusa* forest)

Date: 19 Dec. 2006

Number of species: 13

Species Name	Dom.	Species Name	Dom.
<i>Randia depauperata</i>	1	<i>Acacia confusa</i>	2
<i>Ficus hirta</i>	1	<i>Mallotus paniculatus</i>	1
<i>Litsea rotundifolia</i>	3	<i>Psychotria asiatica</i>	1
<i>Lindera aggregata</i>	1	<i>Raphiolepis indica</i>	1
<i>Eurya nitida</i>	1	<i>Archidendron lucidum</i>	1
<i>Cratoxylum cochinchinense</i>	1	<i>Aporosa dioica</i>	1
<i>Microcos paniculata</i>	2		

Name of Plot: No.3 plot of Zhuhai (Bush)

Date: 9 Dec. 2006

Number of Species: 9

Species Name	Dom.	Species Name	Dom.
<i>Rhodomyrtus tomentosa</i>	3	<i>Raphiolepis indica</i>	2
<i>Eurya chinensis</i>	2	<i>Melastoma sanguineum</i>	1
<i>Ilex asprella</i>	2	<i>Schefflera octophylla</i>	1
<i>Gardenia jasminoides</i>	2	<i>Baekkea frutescens</i>	1
<i>Litsea rotundifolia</i>	2		

Table 5.7 b-1) Understory vegetation survey: Lake Banryu

Name of Plot: Banryu-2

Date: 11-12 October 2006

Number of species: 14

Species Name	Dominance	Species Name	Dominance
<i>Gleichenia glauca</i>	5	<i>Akebia trifoliata</i>	+
<i>Dendropanax trifidus</i>	+	<i>Rhus succedanea</i>	+
<i>Eurya pubicalyx</i>	+	<i>Daphniphyllum teijsmannii</i>	+
<i>Ligustrum japonicum</i>	+	<i>Acanthopanax sciadophylloides</i>	+
<i>Smilax china</i>	+	<i>Symplocos lucida</i>	+
<i>Callicarpa mollis</i>	1	<i>Pieris japonica</i>	+
<i>Lindera umbellata</i>	1	<i>Rubus palmatus</i>	+

Name of Plot: Iwami RFP

Date: 11-12 October 2006

Number of species: 14

Species Name	Dominance	Species Name	Dominance
<i>Gleichenia glauca</i>	3	<i>Akebia trifoliata</i>	+
<i>Castanopsis cuspidata</i>	1	<i>Machilus Thunbergii</i>	+
<i>Symplocos lucida</i>	1	<i>Dendropanax trifidus</i>	+
<i>Ardisia japonica</i>	+	<i>Eurya pubicalyx</i>	1
<i>Lindera umbellata</i>	+	<i>Styrax japonica</i>	+
<i>Ligustrum japonicum</i>	+	<i>Ficus erecta</i>	+
<i>Quercus serrata</i>	+	<i>Dammacanthus indicus</i>	+

Table 5.7 b-2) Understory vegetation survey: Lake Ijira

Name of Plot: Ijira

Date: 6 October 2006

Number of species: 18

Species Name	Dominance	Species Name	Dominance
<i>Camellia sinensis</i>	1	<i>Prunus spinulosa</i>	+
<i>Cleyera japonica</i>	1	<i>Rubus buergeri</i>	+
<i>Camellia japonica</i>	+	<i>Vaccinium bracteatum</i>	+
<i>Eurya japonica</i>	+	<i>Lophatherum gracile</i>	+
<i>Acer palmatum</i>	+	<i>Heloniopsis orientalis</i>	+
<i>Castanopsis cuspidata</i>	+	<i>Plagiogyria japonica</i>	+
<i>Clethra barvinervis</i>	+	<i>Blechnum niponicum</i>	+
<i>Illicium anisatum</i>	+	<i>Dryopteris etythrosora</i>	+
<i>Mallotus japonicus</i>	+	<i>Stegnogramma pozoi</i>	+

Name of Plot: Yamato

Date: 6 October 2006

Number of species: 34

Species Name	Dominance	Species Name	Dominance
<i>Lindera triloba</i>	3	<i>Magnolia salicifolia</i>	+
<i>Rhus trichocarpa</i>	2	<i>Rubus crataegifolius</i>	+
<i>Acanthopanax sciadophylloides</i>	2	<i>Rubus palmatus</i>	+
<i>Clethra barvinervis</i>	2	<i>Smilax china</i>	+
<i>Lindera umbellata</i>	1	<i>Styrax japonica</i>	+
<i>Acer argutum</i>	+	<i>Symplocos chinensis</i> var. <i>leucocarpa</i>	+
<i>Acer crataegifolium</i>	+	<i>Clerodendrum trichotomum</i>	+
<i>Acer distylum</i>	+	<i>Mallotus japonicus</i>	+
<i>Acer micranthum</i>	+	<i>Mitchella undulata</i>	+
<i>Acer sieboldianum</i>	+	<i>Oplismenus undulatifolius</i>	+
<i>Callicarpa japonica</i>	+	<i>Miscanthus sinensis</i>	+
<i>Cephalotaxus harringtonia</i>	+	<i>Dryopteris etythrosora</i>	1
<i>Chamaecyparis obtusa</i>	+	<i>Plagiogyria matsumureana</i>	+
<i>Hydrangea hirta</i>	+	<i>Arachniodes standishii</i>	1
<i>Ilex crenata</i>	+	<i>Stegnogramma pozoi</i>	+
<i>Ilex pedunculosa</i>	+	<i>Blechnum niponicum</i>	+
<i>Magnolia obovata</i>	+	<i>Osmunda japonica</i>	+

Table 5.7 c) Understory vegetation survey: Primorskaya

Name of Plot: Primorskaya

Date: June, 22, 2006

Number of species: 39

Species Name	Dominance	Species Name	Dominance
<i>Pragiorhegma dubia</i>	4	<i>Oreorchis patens</i>	1
<i>Philadelphus temifolius</i>	3	<i>Lilium distichum</i>	1
<i>Corylus mandshurica</i>	3	<i>Carex lanceolata</i>	1
<i>Euonymus sacrosancta</i>	3	<i>Carex siderosticta</i>	1
<i>Acer mono</i>	3	<i>Polygonatum involucratum</i>	1
<i>Fraxinus mandshurica</i>	3	<i>Dryopteris sichotensis</i>	1
<i>Sanicula rubriflora</i>	3	<i>Veratrum dahuricum</i>	1
<i>Hylomecon vernalis</i>	3	<i>Ribes sp.</i>	+
<i>Carex campylorhina</i>	3	<i>Viburnum sargentii</i>	+
<i>Smilacina hitra</i>	2	<i>Syringa amurensis</i>	+
<i>Euonymus sacrosancta</i>	2	<i>Tilia amurensis</i>	+
<i>Chloranthus japonicus</i>	2	<i>Polemonium laxiflorum</i>	+
<i>Pinus koraiensis</i>	1	<i>Galium dahuricum</i>	+
<i>Abies holophylla</i>	1	<i>Pseudocystopteris spinulosa</i>	+
<i>Acer tegmentosum</i>	1	<i>Athyrium sinense</i>	+
<i>Maackia amurensis</i>	1	<i>Trigonotis radicans</i>	+
<i>Eleuterococcus senticonis</i>	1	<i>Asparagus schoberioides</i>	+
<i>Sorbaria sorbifolia</i>	1	<i>Paeonia obovata</i>	+
<i>Ulmus laciniata</i>	1	<i>Vincetoxicum acuminatum</i>	+
<i>Quercus mongolica</i>	1		

Table 5.7 d) Understory vegetation survey: Vachiralongkorn Dam

Name of plot: Vachiralongkorn Dam

Date: 9 May 2006

Number of species: 9

Species name	Dominance	Species name	Dominance
<i>Aglaomema simplex</i> Blume (Waan khan mak)	4	<i>Dendrocalamus membranaceus</i> (Pai sang nuan, bamboo)	+
<i>Ampelocissus matinii</i> (Som kung)	3	<i>Stebhania peticulata</i> (Tub tao)	+
<i>Pterocymbium malayanum</i> (Po ee keng)	3	NI (Wan ngam bai)	+
NI (Annonaceae) (Pum luey)	+	<i>Ammannia villosum</i> (Rew, wan)	+
<i>Tetrastigma spp</i> (A-ngun pa)	+		

Note: *Species name* (Thai name); NI, Latin name was not identified.

Name of plot: Vachiralongkorn (Puye)

Date: 9 May 2006

Number of species: 34

Species name	Dominance	Species name	Dominance
<i>Sterculia guttata</i> (Por daeng)	+	<i>Cantharellus cidarius</i> (Hed man poo)	+
<i>Tetrastigma quadrangulatum</i> (A-ngun pa)	4	<i>Paederia linearis</i> (Tao tod maa)	+
<i>Bauhinia integrifolia</i> (Tao fai)	+	NI (Tao maa noi)	+
<i>micranthum</i> (Ta kaom ta noo)	4	<i>contortus</i> (Nuad ru si)	+
<i>Ammannia villosum</i> (Rew, wan)	5	<i>Stephonia pierrei</i> (Kling glang dong)	+
<i>Mollig cordifolia</i> (Po liang)	4	<i>Dalbergia cultrata</i> (kapi khao kwai)	+
NI (Cham chuang)	+	<i>Eupatorium odoratum</i> (Sab sue)	+
<i>Persea kurzii</i> Yang bong)	+	<i>Grewia paniculata</i> (Plub pla)	+
<i>Crotalaria sanica</i> (Rang jueed, annual)	+	<i>Dioscorea alata</i> (Mun sao)	+
<i>Thunbergia laurifoila</i> (Rang jueed, climbing)	+	NI (Tao Kru ru)	+
NI (Nuad pa kao)	+	<i>Dioscorea burmanica</i> (Mun nok)	+
<i>Combretum punctatum</i> Sakae wan)	4	<i>Habenaria rhodocheila</i> (Fern)	+
<i>Terminalia myriocarpa</i> (Sang)	+	<i>Barringtonia macrocarpa</i> (Jig nom yang)	+
NI (Keeb lab)	+	<i>Erythring subumbrans</i> (Tong lang paa)	+
<i>Gigantochloa hasskarliana</i> (Pai pak)	+	NI (Kanieng)	+
NI (Nam khae nak)	+	NI (Mun nam)	+
<i>Endospermum peltatum</i> (Klai)	+	<i>Maranta arundinacea</i> (Sa koo)	+

Note: *Species name* (Thai name); NI, Latin name was not identified.

Table 5.8 a-1) Observation of tree decline: Jinyunshan-1

Name of Plot: Jinyunshan No.1

Nearest deposition monitoring site: Jinyunshan (Chongqing)

Date: 30 October 2006

Individual No.	1(3)	2(2)	3(58)	4(101)	5(105)	6(70)	7(71)	8(72)	9(103)	10(104)	11(97)
Plant Name	<i>Cunninghamia lanceolata</i>	<i>Symplocos setchuensis</i>	<i>Symplocos setchuensis</i>	<i>Symplocos setchuensis</i>	<i>Symplocos setchuensis</i>	<i>Symplocos setchuensis</i>	<i>Symplocos setchuensis</i>	<i>Symplocos setchuensis</i>	<i>Symplocos setchuensis</i>	<i>Symplocos setchuensis</i>	<i>Elaeocarpus duclouxii</i>
Relative height	15	6.7	4.7	11.1	9.1	5.8	6.5	8.2	9.2	9.6	13.6
Vitality of tree											
Form of tree											
Branch growth								1		1	
dieback of stem											
Density of foliage											
Deformation of leaves			1	1				1		1	1
Size of leaves											
Color of leaves											
Injury of leaves											1

Estimated cause of decline: Strong wind or pests**Table 5.8 a-2) Observation of tree decline: Jinyunshan-2**

Name of Plot: Jinyunshan No.2

Nearest deposition monitoring site: Jinyunshan (Chongqing)

Date: 30 October 2006

Individual No.	1(67)	2(68)	3(74)	4(76)	5(73)	6(41)	8(71)	9(70)	10(69)
Plant Name	<i>Symplocos setchuensis</i>	<i>Symplocos setchuensis</i>	<i>Adinandra bockiana</i>	<i>Symplocos setchuensis</i>	<i>Symplocos lancifolia</i>	<i>Adinandra bockiana</i>	<i>Symplocos lancifolia</i>	<i>Elaeocarpus japonicus</i>	<i>Michilus pingii</i>
Height of trees (m)	7.6	6.3	12.4	13.6	8.9	16.6	10.8	14.8	12.8
Vitality of tree				2					
Form of tree				3					
Branch growth	1								
dieback of stem									
Density of foliage									
Deformation of leaves			1						
Size of leaves									
Color of leaves									
Injury of leaves		1	1			1			

Estimated cause of decline: Pests

Table 5.8 a-3) Observation of tree decline: Jiwozi (Dabagou)

Name of Plot: Dabagou

Nearest deposition monitoring site: Jiwozi (Xi'an)

Date: 20 Nov. 2006

Individual No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Plant Name	<i>Pinus armandi</i>																			
Height of trees (m)	15.2	12.6	11	13.2	9.4	10.5	8.5	6.6	9.3	13.2	12.6	9.2	9.6	13	7.9	9.8	10.6	11.6	8.5	7.6
Vitality of tree			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Form of tree			1	1	1	1		1	1	1	1	1			1	1			1	1
Branch growth	1		1	1	1			1	1	1	1	1	1		1	1	1	1	1	1
dieback of stem	1		1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
Density of foliage	1		1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
Deformation of							1			1				1						1
Size of leaves							1													1
Color of leaves							1						1	1				1		1
Injury of leaves							1						1							1

Estimated cause of decline: Dense forest

Table 5.8 a-4) Observation of tree decline: Xiaoping

Name of Plot: XPT-01

Nearest deposition monitoring site: Xiaoping (Xiamen)

Date: 20 Nov. 2006

Individual No.	120	210	211	122	116	203	225	227	301	344	220	221	337	334	333	313	314	310	309	308
Plant Name	<i>Michelia macclurei</i>	<i>Michelia macclurei</i>	<i>Michelia macclurei</i>	<i>Michelia macclurei</i>	<i>Michelia macclurei</i>	<i>Michelia macclurei</i>	<i>Michelia macclurei</i>	<i>Michelia macclurei</i>	<i>Michelia macclurei</i>	<i>Michelia macclurei</i>	<i>Michelia macclurei</i>	<i>Michelia macclurei</i>	<i>Michelia macclurei</i>	<i>Michelia macclurei</i>	<i>Michelia macclurei</i>	<i>Michelia macclurei</i>				
Relative height	14.35	15.1	17.8	17.9	16.7	15.8	17.2	17.8	17.5	16.4	16.9	17.6	17.4	17.2	18.8	15.7	16.15	16.5	16.7	17.9
Vitality of tree																				
Form of tree																				
Branch growth																				
dieback of stem																				
Density of foliage												1			1					
Deformation of leaves																				
Size of leaves																				
Color of leaves																				
Injury of leaves																				

Estimated cause of decline:

Table 5.8 a-5) Results of observation of tree decline: Zhuxiandong-1

Name of Plot: No.1 plot of Zhuhai

Nearest deposition monitoring site: Zhuxiandong (Zhuhai)

Date: 9 Dec. 2006

Individual No.	1	2	3	4	5
Plant Name	<i>Pinus elliotii</i>	<i>Pinus elliotii</i>	<i>Acacia confusa</i>	<i>Pinus elliotii</i>	<i>Acacia confusa</i>
Relative height	10	9	10	10	11
Vitality of tree	1	2	2	2	2
Form of tree	2	1	2	2	2
Branch growth	1	1	2	2	2
dieback of stem	1	1	0	0	0
Density of foliage	1	1	2	2	2
Deformation of leaves	0	0	0	0	0
Size of leaves	0	0	0	0	0
Color of leaves	0	0	0	0	0
Injury of leaves	1	1	0	0	0

Estimated cause of decline: Pests

Table 5.8 a-6) Observation of tree decline: Zhuxiandong-2Name of Plot: *Acacia confusa* forest

Nearest deposition monitoring site: Zhuxiandong (Zhuhai)

Date: 9 Dec. 2006

Individual No.	1	2	3	4	5
Plant Name	<i>Acacia confusa</i>	<i>Acacia confusa</i>	<i>Acacia confusa</i>	<i>Acacia confusa</i>	<i>Acacia confusa</i>
Relative height	8	8	9	6	9
Vitality of tree	0	0	0	0	0
Form of tree	0	0	0	0	0
Branch growth	0	0	0	0	0
dieback of stem	0	0	0	0	0
Density of foliage	0	0	0	0	0
Deformation of leaves	0	0	0	0	0
Size of leaves	0	0	0	0	0
Color of leaves	0	0	0	0	0
Injury of leaves	0	0	0	0	0

Estimated cause of decline:

Table 5.8 a-7) Observation of tree decline: Zhuxiandong-3

Name of Plot: Bush

Nearest deposition monitoring site: Zhuxiandong (Zhuhai)

Date: 9 Dec. 2006

Individual No.	1	2	3	4	5
Plant Name	<i>Sapium discolor</i>	<i>Litsea rotundifolia</i>	<i>Acacia confusa</i>	<i>Archidendron lucidum</i>	<i>Machilus velutina</i>
Relative height	3.5	1.8	5	4.5	3
Vitality of tree	1	1	2	3	3
Form of tree	0	0	0	0	0
Branch growth	1	0	0	0	0
dieback of stem	1	1	1	0	0
Density of foliage	1	0	0	0	0
Deformation of leaves	0	0	0	0	0
Size of leaves	0	0	0	0	0
Color of leaves	0	0	0	0	0
Injury of leaves	1	1	0	0	0

Estimated cause of decline: Pests and depressed by some climbing plants

Table 5.8 b-1) Observation of tree decline: Lake Banryu-1

Name of Plot: Banryu-2

Nearest deposition monitoring site: Banryu

Date: 11-12 October 2006

Individual No.	72	82	76	63	64	65	54	83	34	35	37
Direction	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	+	+	+	+	+	+	+	+	+	+	+
Height (m)	13.5	14.1	13.4	12.1	13.5	13.2	11.7	10.2	13.6	14.3	12.1
DBH (cm)	20.4	24.0	11.5	22.4	15.7	19.0	11.1	14.3	22.7	18.7	15.4
Vitality of tree											
Form of tree											
Branch growth											
Dieback of stem											
Density of foliage											
Deformation of leaves											
Size of leaves											
Color of leaves											
Injury of leaves											

Estimated cause of decline:

Table 5.8 b-2) Observation of tree decline: Lake Banryu-2

Name of Plot: Iwami "rinku" Factory Park

Nearest deposition monitoring site: Banryu

Date: 12-13 October 2006

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>Quercus serrata</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			+		+						-						-
Height (m)	13.7	17.6	20.6	18.0	17.4	17.0	17.6	17.8	17.8	21.2	13.4	15.8	16.3	17.2	17.4	13.1	14.2
DBH (cm)	22.5	27.6	27.7	27.5	27.3	25.0	27.1	32.9	30.7	31.7	22.3	39.8	20.3	22.3	26.7	34.2	22.4
Vitality of tree				2						4		2.0				2	
Form of tree																	
Branch growth																	
Dieback of stem				1								1				3	
Density of foliage																2	
Deformation of leaves																	
Size of leaves																	
Color of leaves				2								2				2	
Injury of leaves				2								2				2	

Estimated cause of decline: No.100, 137, 140 and 142, effects of specific disease for Fagaceae tree species (infection of *Raffaella quercivora* through the beetle, *Platypus quercivorus*); Holes of the beetle were found in 127 and 128, while decline symptoms have not been detected.

Table 5.8 b-3) Observation of tree decline: Lake Ijira

Name of Plot: Lake Ijira

Nearest deposition monitoring site: Ijira

Date: 20 November 2006

Individual No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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>Cryptomeria japonica</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>
Relative height	+				-		+					-	-					-	-	
Height (m)			9.7			14	14	14		14					16	13	13			
DBH (m)			12			20	24	20		18					14	20	16			
Vitality of tree			1		3			1				1	1					1	1	
Form of tree			1		3			1				2	2					1	1	
Branch growth																				
Dieback of stem					4															
Density of foliage			1		3													2		
Deformation of leaves																				
Size of leaves																				
Color of leaves																				
Injury of leaves																				

Estimated cause of decline: No.3, effects of fallen trees; No.5, suppression by other trees and broken stems; No.8, 18, and 19, suppression by other trees; No.12 and 13, broken stems.

Table 5.8 b-4) Observation of tree decline: Lake Ijira-2

Name of Plot: Yamato

Nearest deposition monitoring site: Ijira

Date: October 27, 2005

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				-							-	-	-							-
Height (m)	29	27	29	28	30	29	28	28	29	28	24	26	25	26	27	29	26	28	30	25
DBH (m)	36	38	30	41	39	42	37	35	41	38	32	31	31	32	39	29	33	42	37	34
Vitality of tree																				
Form of tree				1									1	1						1
Branch growth																				
Dieback of stem				1							2									
Density of foliage											3		1	1						
Deformation of leaves																				
Size of leaves																				
Color of leaves																				
Injury of leaves																				

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 stems (effects of heavy snow)

Table 5.8 c) Observation of tree decline: Primorskaya

Name of Plot: Primorskaya

Nearest deposition monitoring site: Primorskaya

Date: June, 22, 2006

Individual No	63	64	65	66	17	46	47	25	26	27	28	57	58	82
Direction	N	N	N	N	E	E	E	S	S	S	S	W	W	W
Plant Name	<i>mandshurica</i>	<i>Fraxinus</i> <i>Abies holophylla</i>	<i>Abies holophylla</i>	<i>Tilia amurensis</i>	<i>Ulmus japonica</i>	<i>Acer mono</i>	<i>Acer mono</i>	<i>Quercus mongolica</i>	<i>Quercus mongolica</i>	<i>Acer mono</i>	<i>Tilia amurensis</i>	<i>Quercus mongolica</i>	<i>Quercus mongolica</i>	<i>Tilia mandshurica</i>
Vitality of tree					1		1			1				
Form of tree					1		1							
Branch growth							1							
Dieback of stem														
Density of foliage										1				
Deformation of leaves														
Size of leaves														
Color of leaves														
Injury of leaves	1		1	1	1			1	1		1	1	1	1

Estimated causes of decline: Diseases of leaves caused by insects-phylophagous.

Table 5.8 d-1) Observation of tree decline: Vachiralongkorn Dam

Name of plot: Vachiralongkorn Dam

Nearest deposition monitoring site: Vachiralongkorn Dam

Date: May 9, 2006

Individual No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Plant Name	<i>Xylia xylocarpa</i>																			
Relative height																				
Vitality of tree																				
Form of tree																				
Branch growth																				
Dieback of stem																				
Density of foliage																				
Deformation of leaves																				
Size of leaves																				
Colour of leaves																				
Injury of leaves																				

Estimated cause of decline: None

Table 5.8 d-2) Observation of tree decline: Vachiralongkorn Dam

Name of plot: Vachiralongkorn Dam (Puye)

Nearest deposition monitoring site: Vachiralongkorn Dam

Date: May 9, 2006

Individual No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Plant Name	<i>Dipterocarpus turbinatus</i>																			
Relative height																				
Vitality of tree																				
Form of tree																				
Branch growth																				
Dieback of stem																				
Density of foliage																				
Deformation of leaves																				
Size of leaves																				
Colour of leaves																				
Injury of leaves																				

Estimated cause of decline: None

Figure 5.3 a-1) Japan: Banryu2



North



South



West



East

Figure 5.3 a-2) Japan: Iwami RFP



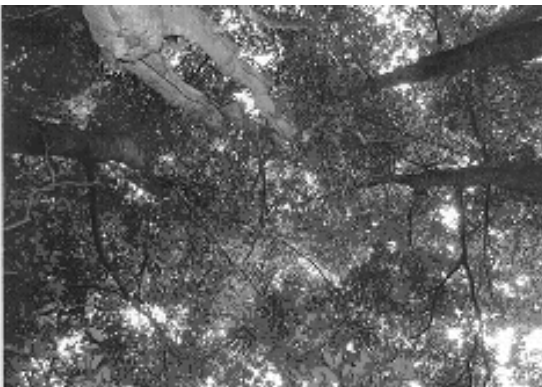
North



South



West



East

Figure 5.3 a-3) Japan: Ijira



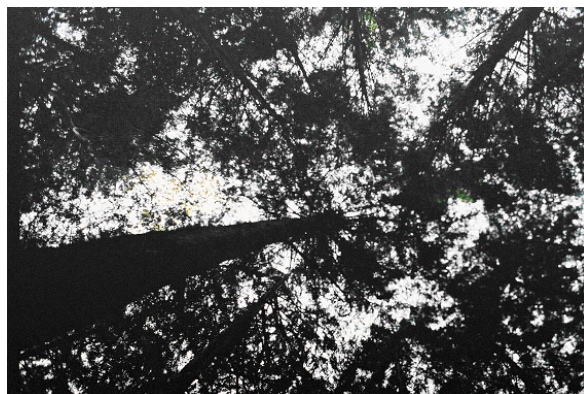
North



South



West



East

Figure 5.3 a-4) Japan: Yamato



North



South



West

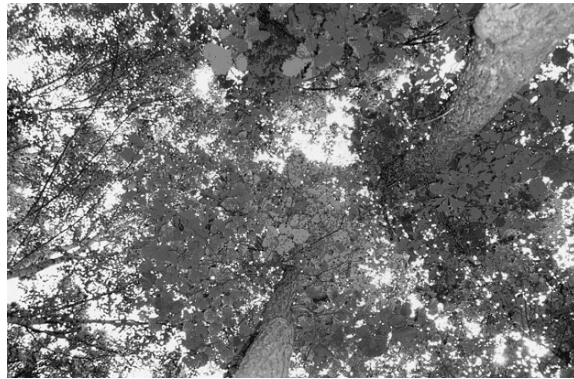


East

Figure 5.3 b) Russia: Primorskaya



North



South



East



West

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.

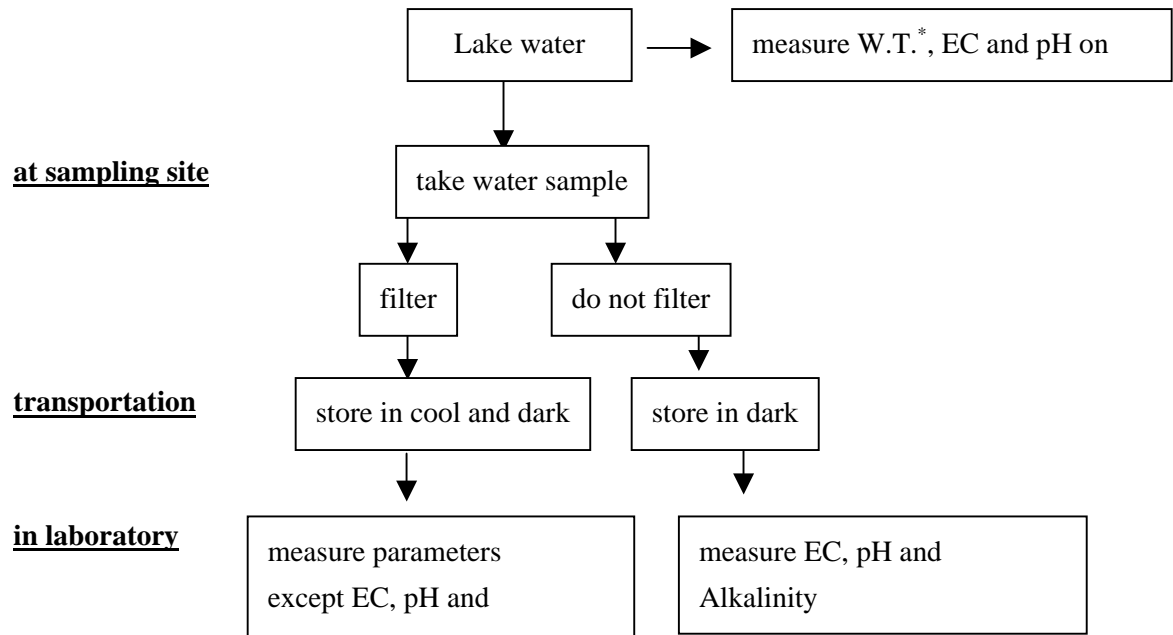
The participating countries of EANET are expected to carry out the monitoring of water temperature, pH, electric conductivity (EC), alkalinity and concentration of SO_4^{2-} , NO_3^- , Cl^- , NH_4^+ , Na^+ , K^+ , Ca^{2+} , and Mg^{2+} of targeted lakes/streams at least four times a year (seasonally), 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 of springs, 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. 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 5 streams. Properties of these monitoring sites are shown on [Table 6.3](#). However many of these tables are not complete. The monitoring data of Semenyih Dam in Malaysia is added in this data report. The monitoring at Semenyih Dam has been conducted from 2005. The result in 2005 and 2006 is shown 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	Petenggang Lake	Rural	Water quality of Petenggang Lake	3times/yr.
Japan	Ijira Lake	Rural/Ecolog.	Water quality of Lake Ijira	4times/yr.
	Banryu Lake	Urban/Ecolog.	Water quality of Lake Banryu	4times/yr.
Malaysia	Semenyih Dam	Urban	Water quality of Semenyih Dam	7times/yr.
Mongolia	Terej River	Rural	Water quality of Terej 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 (9). Data within or exceeded the criteria of R1,R2 are judged “O” or “X” in Table 6.4 4(1) to (10) respectively according to the Manual for Monitoring Inland Aquatic Environment. The annual mean values of each monitoring sites are summarized in Table 6.4(11).

As described in Table 6.4(11), the values of pH and alkalinity at Jinyunshan Lake in China were lowest. On the other hand, the values of alkalinity and Ca^{2+} at Pandin Lake in Philippines, Vachiralongkorn Dam in Thailand and Hoa Binh Reservoir in Viet Num 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, and Zhuxiandong stream in China, Semenyih Dam in Malaysia and Terej 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 2006 are shown in Table 6.5(1) to (16).

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	-
Solar radiation	-
Wind speed	-
Wind direction	-
Residence time of water	-
Lake utilization	-
Watershed area	-
River (flows into)	-

- : no information

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	1,893mm/year (2006)
Solar radiation	Daylight time Ave.161hr/month (2006)
Wind speed	2.1-3.0 (Ave. 2.3) m/s (2006)
Wind direction	SSW(summer), NW(winter) (2006)
Residence time of water	23 days
Lake utilization	Irrigation and fishing
Watershed area	5.4 km ²
River (flows into)	Ijira River, Takabora River

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	-
Lake trophic type	Mesotrophic
Water depth	Ave. 8-8.5m
Water volume	-
Annual water level fluctuation	1.5 m
Precipitation	1,673mm/year (2006)
Solar radiation	Daylight time Ave.147hr/month (2006)
Wind speed	1.6-2.1(Ave. 1.8) m/s (2006)
Wind direction	S (summer), WNW (winter) (2006)
Residence time of water	-
Lake utilization	Irrigation
Watershed area	0.73 km ²
River (flows into)	none

- : no information

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: 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(10) 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(11) 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(12) 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(13) 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(14) 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	-
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(15) 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.

Table 6.4(1) Result of Inland Aquatic Environment Monitoring

Duration: 2006.1.-2006.12.
 Country: China
 Lake Name: See below

Site	Sampling Date	Mandatory Parameters : 4 times/year												Mandatory Parameters : 1 times/year				COD (mg/l)	Mn ²⁺ (mg/l)	Chl-a (µg/l)	Water color	
		Temp. (°C)	pH	EC (mS/m)	Alkalinity (meq/l)	SO ₄ ²⁻ (mg/l)	NO ₃ ⁻ (mg/l)	Cl ⁻ (mg/l)	NH ₄ ⁺ (mg/l)	Na ⁺ (mg/l)	K ⁺ (mg/l)	Ca ²⁺ (mg/l)	Mg ²⁺ (mg/l)	PO ₄ ³⁻ (mg/l)	NO ₂ ⁻ (mg/l)	DOC (mg/l)	Transparency (m)					
Chongqing -Jinyunshan Lake	22-Mar-06	13.0	6.28	11.2	0.033	29.0	11.0	2.76	0.15	2.98	1.79	9.67	3.47	-	-	-	5.1	-	-	-	-	
	18-May-06	20.0	6.15	11.5	0.038	33.1	11.8	2.96	0.00	2.71	1.94	9.96	3.54	-	-	-	7.2	-	-	-	-	
	22-Sep-06	23.0	6.40	11.5	0.270	29.6	3.92	2.86	0.19	2.90	2.75	11.5	3.96	-	-	-	5.1	-	-	-	-	
	15-Dec-06	11.0	6.88	13.5	0.112	38.9	11.4	3.60	0.10	3.26	2.58	13.1	4.30	*2	*2	-	2.6	3.2	-	-	-	
	mean [†]	16.8	6.36	11.9	0.113	32.7	9.53	3.05	0.11	2.96	2.27	11.1	3.82	*2	*2	-	5.0	3.2	-	-	-	
Xiamen -Xiaoping Dam	02-Mar-07	14.0	7.06	5.45	0.131	3.91	2.73	6.32	0.35	7.39	2.04	2.99	0.70	-	-	-	-	-	-	-	-	
	07-Jun-07	23.8	6.78	5.31	0.241	2.16	2.20	5.06	0.27	4.99	2.48	3.44	0.81	-	-	-	-	-	-	-	-	
	11-Oct-07	24.0	6.74	5.24	0.225	2.03	2.70	6.00	0.06	7.20	2.75	3.23	0.63	-	-	-	-	-	-	-	-	
	06-Dec-07	14.7	6.74	5.06	0.162	1.73	2.46	3.12	0.09	4.48	2.06	3.11	0.51	0.020	0.008	-	0.9	0.7	-	-	-	
	mean [†]	19.1	6.81	5.27	0.190	2.46	2.52	5.13	0.19	6.02	2.33	3.19	0.66	0.020	0.008	-	0.9	0.7	-	-	-	
Xi'an -Jiwozi River	30-Mar-06	4.00	7.92	7.59	0.220	9.73	2.70	1.11	*2	1.19	0.50	8.24	1.14	-	-	-	-	-	-	-	-	
	30-Jun-06	10.0	7.43	7.23	0.250	10.0	3.38	0.92	*2	2.25	0.77	7.32	1.68	-	-	-	-	-	-	-	-	
	30-Sep-06	12.0	6.34	7.21	0.250	13.3	0.68	1.36	0.02	2.17	0.65	6.79	0.73	-	-	-	-	-	-	-	-	
	30-Dec-06	0.00	6.87	8.32	0.230	14.2	0.73	1.43	0.12	2.13	0.70	8.21	0.89	0.030	0.003	-	-	-	2.8	-	-	-
	mean [†]	6.5	6.80	7.59	0.238	11.8	1.87	1.21	0.07	1.93	0.65	7.64	1.11	0.03	0.003	-	-	-	2.8	-	-	-
Zhuhai -Zhuxiandong stream	08-Jan-06	15.5	7.01	7.80	0.160	1.60	0.20	3.20	1.10	1.40	0.40	3.00	1.30	*2	*2	-	1.4	0.9	-	-	-	
	08-May-06	25.5	7.20	7.50	0.210	3.10	0.80	4.90	1.20	7.20	1.20	5.10	1.70	*2	*2	-	1.2	1.0	-	-	-	
	08-Aug-06	30.5	7.40	6.60	0.260	3.50	2.40	5.20	0.90	5.80	1.60	4.40	1.60	*2	*2	-	1.1	1.1	-	-	-	
	08-Oct-06	26.0	7.20	7.50	0.270	2.20	1.20	4.70	1.20	7.20	1.30	5.00	1.70	*2	*2	-	1.3	0.9	-	-	-	
	mean [†]	24.4	7.18	7.35	0.225	2.60	1.15	4.50	1.10	5.40	1.13	4.38	1.58	*2	*2	-	1.3	1.0	-	-	-	

note
 -Item not analyzed
 *1: Mean of pH takes an average of hydrogen ion
 *2:Item were not detected.

	Anion	Cation	RI	Judge ^{*3}
Chongqing -Jinyunshan Lake	22-Mar-06	891.5	952.1	3.3 O
	18-May-06	1001.8	956.3	-2.3 O
	22-Sep-06	1030.2	1105.9	3.5 O
	15-Dec-06	1207.0	1220.8	0.6 O
	02-Mar-07	434.4	600.3	16.0 ×
Xiamen -Xiaoping	07-Jun-07	464.4	533.6	6.9 O
	11-Oct-07	479.8	600.2	11.2 ×
	06-Dec-07	325.8	449.9	16.0 ×
	30-Mar-06	497.5	569.3	6.7 O
Xi'an -Jiwozi	30-Jun-06	537.6	620.8	7.2 O
	30-Sep-06	576.0	511.6	-5.9 O
	30-Dec-06	578.6	593.1	1.2 O
	08-Jan-06	286.8	388.8	15.1 ×
Zhuhai -Zhuxiandong reservoir	08-May-06	425.7	804.7	30.8 ×
	08-Aug-06	518.3	694.3	14.5 ×
	08-Oct-06	467.7	802.3	26.3 ×

Scale	R2	Judge ^{*3}
12.3	4.8	O
13.2	6.8	O
13.6	8.4	O
16.1	8.8	O
6.2	6.8	O
5.8	4.6	O
6.3	9.2	×
4.5	-5.6	O
6.5	-8.0	O
6.9	-2.2	O
6.7	-3.9	O
7.2	-7.0	O
4.0	-32.3	×
7.2	-2.4	O
7.1	3.5	O
7.3	-1.6	O

*3 : Concerning "×"judging, there are some possible reason, but it's difficult to specify the main reason.

Table 6.4(2) Result of Inland Aquatic Environment Monitoring

Duration: 2006.2.-2006.7
 Country: Indonesia
 Lake Name: Patenggang Lake

Site	Sampling Date	Temp. (°C)	pH	EC (mS/m)	Alkalinity (meq/L)	SO ₄ ²⁻ (mg/L)	NO ₃ ⁻ (mg/L)	Cl ⁻ (mg/L)	NH ₄ ⁺ (mg/L)	Na ⁺ (mg/L)	K ⁺ (mg/L)	Ca ²⁺ (mg/L)	Mg ²⁺ (mg/L)	PO ₄ ³⁻ (mg/L)	NO ₂ ⁻ (mg/L)	DOC (mg/L)	Transparency (m)
Center (Surface)	7-Feb-06	21.5	7.3	5.58	0.450	3.1	0.73	1.0	0.56	3.33	1.89	5.6	1.0	0.105	0.011	3.8	0.160
	24-May-06	22.0	7.8	4.80	0.292	2.3	0.22	4.8	0.12	2.08	1.77	4.0	1.8	0.088	0.033	9.4	0.090
	10-Jul-06	21.5	7.5	6.85	0.500	6.0	*2	1.9	0.49	3.19	1.45	7.5	1.5	0.063	0.003	11.2	0.090
	mean ^{*1}	21.7	7.5	5.74	0.414	3.8	0.47	2.6	0.39	2.87	1.70	5.7	1.4	0.076	0.018	8.1	0.113

note

*1 : Mean of pH takes an average of hydrogen ion

*2:Item were not detected.

		Anion	Cation	R1	Judge		Λcalc	R2	Judge
Center (Surface)	7-Feb-06	554.5	587.4	2.9	O		6.2	5.6	O
	24-May-06	478.8	490.0	1.2	O		5.6	7.3	O
	10-Jul-06	679.6	698.1	1.3	O		7.7	5.8	O

Table 6.4(3) Result of Inland Aquatic Environment Monitoring

Duration: 2006.6.-2007.3.
 Country: Japan
 Lake Name: Ijira Lake

Site	Sampling Date	Mandatory Parameters : 4times/year											
		Temp. (degreeC)	pH	EC (mS/m)	Alkalinity (meq/L)	SO ₄ ²⁻ (mg/L)	NO ₃ ⁻ (mg/L)	Cl ⁻ (mg/L)	NH ₄ ⁺ (mg/L)	Na ⁺ (mg/L)	K ⁺ (mg/L)	Ca ²⁺ (mg/L)	Mg ²⁺ (mg/L)
Center (Surface)	19-Jun-06	22.3	6.95	3.57	0.132	4.29	2.35	2.00	0.03	1.82	0.37	2.32	1.11
	28-Aug-06	26.3	6.59	4.03	0.188	4.58	1.07	2.22	0.03	2.08	0.31	3.09	1.22
	25-Sep-06	23.8	6.98	4.22	0.171	4.72	2.92	2.05	<0.02*3	2.10	0.32	3.00	1.36
	07-Mar-07	-	-	-	-	-	-	-	-	-	-	-	-
	mean	24.1	6.81	3.94	0.164	4.53	2.11	2.09	0.03	2.00	0.33	2.80	1.23
Center (near bottom)	19-Jun-06	18.0	6.78	3.67	0.133	4.27	2.50	2.10	0.05	1.88	0.35	2.28	1.17
	28-Aug-06	20.7	6.67	4.50	0.241	3.96	0.89	2.19	0.18	2.01	0.33	3.17	1.59
	25-Sep-06	21.8	6.79	4.32	0.171	4.96	2.94	2.08	0.03	2.11	0.33	3.04	1.40
	07-Mar-07	-	-	-	-	-	-	-	-	-	-	-	-
	mean	20.2	6.75	4.16	0.182	4.39	2.11	2.12	0.09	2.00	0.34	2.83	1.38
Ijira River (Input)	19-Jun-06	18.2	7.00	3.80	0.132	4.99	2.32	2.16	<0.02*3	1.93	0.24	2.50	1.27
	28-Aug-06	20.8	6.81	4.52	0.164	6.33	2.65	2.14	<0.02*3	2.23	0.33	3.16	1.53
	25-Sep-06	20.0	7.01	4.21	0.151	5.78	2.28	2.14	<0.02*3	2.11	0.29	2.83	1.41
	07-Mar-07	8.6	7.08	4.72	0.143	7.60	2.51	2.37	<0.02*3	2.25	0.24	3.24	1.63
	mean	16.9	6.97	4.31	0.147	6.17	2.44	2.20	<0.02*3	2.13	0.27	2.93	1.46
Takabora River (Input)	19-Jun-06	18.2	6.94	3.34	0.119	4.11	1.50	2.29	<0.02*3	2.15	0.24	1.69	1.20
	28-Aug-06	-	-	-	-	-	-	-	-	-	-	-	-
	25-Sep-06	17.5	6.92	3.74	0.132	4.58	2.18	2.32	<0.02*3	2.40	0.26	1.87	1.34
	07-Mar-07	-	-	-	-	-	-	-	-	-	-	-	-
	mean*2	17.9	6.93	3.54	0.126	4.34	1.84	2.30	<0.02*3	2.28	0.25	1.78	1.27
Ijira River (Output)	19-Jun-06	19.5	6.88	3.57	0.122	4.34	2.48	1.98	0.03	1.80	0.28	2.36	1.14
	28-Aug-06	-	6.76	4.08	0.195	4.27	1.10	2.20	0.17	2.04	0.31	2.97	1.29
	25-Sep-06	23.0	9.21	4.91	0.244	4.63	1.79	2.17	<0.02*3	2.16	0.34	4.28	1.21
	07-Mar-07	-	-	-	-	-	-	-	-	-	-	-	-
	mean*1	21.3*1	7.00	4.18	0.187	4.41	1.79	2.12	0.07	2.00	0.31	3.20	1.21
Discharge	19-Jun-06	23.6	7.11	3.52	0.147	4.26	2.16	2.03	0.02	1.82	0.29	2.63	1.06
	28-Aug-06	-	-	-	-	-	-	-	-	-	-	-	-
	25-Sep-06	20.7	7.03	4.26	0.172	4.77	2.92	2.06	0.03	2.09	0.33	3.01	1.37
	07-Mar-07	-	-	-	-	-	-	-	-	-	-	-	-
	mean	22.2	7.07	3.89	0.159	4.52	2.54	2.04	0.03	1.96	0.31	2.82	1.21

note
 -:Item not analyzed
 *1: We didn't calculate the mean value because the sampling was done only once a year
 *2: average of three times a year
 *3: less than determination limit:
 # pick up 2 samples on site and measure three times/sample.
 # Mean of pH takes an average of hydrogen ion.
 # When the value is under detection limits, it considers "0". When it is over detection limits and under determination limits it considers half determination limits. And using it, it was calculated the average and R1R2"
 # Annual precipitation is 1893mm/year in 2006 (Gifu pref. Meteorological observatory)
 # There is no water except Ijira River(Input) on March.
 # There is no running water at Ijira River(output) on August.
 # There is no running water at Takabora River(input) on August.
 # There is no running water at Discharge on August.

Site	Sampling Date	Mandatory Parameters : Once/year					
		PO ₄ ³⁻ (mg/L)	NO ₂ ⁻ (mg/L)	DOC (mg/L)	Transparency (m)	Water color	Chl-a (µg/L)
Center (Surface)	19-Jun-06	<0.1*3	<0.02*3	0.70	3.40	clear	1.2
	28-Aug-06	<0.1*3	<0.02*3	0.75	1.50	clear	1.8
	25-Sep-06	<0.1*3	<0.02*3	0.40	2.30	clear	0.9
	07-Mar-07	-	-	-	-	-	-
	mean	<0.1*3	<0.02*3	0.62	2.40	-	1.3
Center (near bottom)	19-Jun-06	<0.1*3	<0.02*3	1.05	-	clear	1.3
	28-Aug-06	<0.1*3	<0.02*3	0.55	-	clear	2.4
	25-Sep-06	<0.1*3	<0.02*3	0.35	-	clear	1.9
	07-Mar-07	-	-	-	-	-	-
	mean	<0.1*3	<0.02*3	-	-	-	1.9
Ijira River (Input)	19-Jun-06	<0.1*3	<0.02*3	0.30	-	clear	-
	28-Aug-06	<0.1*3	<0.02*3	0.25	-	clear	-
	25-Sep-06	<0.1*3	<0.02*3	0.15	-	clear	-
	07-Mar-07	-	<0.02*3	-	-	clear	-
	mean	<0.1*2*3	<0.02*3	0.2*2	-	-	-
Takabora Rive (Input)	19-Jun-06	<0.1*3	<0.02*3	0.30	-	clear	-
	28-Aug-06	-	-	-	-	-	-
	25-Sep-06	<0.1*3	<0.02*3	0.10	-	clear	-
	07-Mar-07	-	-	-	-	-	-
	mean*2	<0.1*3	<0.02*3	0.2	-	-	-
Ijira River (Output)	19-Jun-06	<0.1*3	<0.02*3	0.50	-	clear	-
	28-Aug-06	<0.1*3	<0.02*3	0.55	-	clear	-
	25-Sep-06	<0.1*3	<0.02*3	0.50	-	clear	-
	07-Mar-07	-	-	-	-	-	-
	mean*1	<0.1*3	<0.02*3	0.5	-	-	-
Discharge	19-Jun-06	<0.1*3	<0.02*3	0.55	-	clear	-
	28-Aug-06	-	-	-	-	-	-
	25-Sep-06	<0.1*3	<0.02*3	0.55	-	clear	-
	07-Mar-07	-	-	-	-	-	-
	mean	<0.1*3	<0.02*3	0.6	-	-	-

		Anion	Cation	R1	Judge		Acalc	R2	Judge
Center (Surface)	19-Jun-06	315.1	297.2	-2.9	O		4.8	3.0	O
	28-Aug-06	363.1	354.2	-1.2	O		5.1	1.4	O
	25-Sep-06	374.2	361.2	-1.8	O		4.6	1.7	O
	07-Mar-07	-	-	-	-		4.0	0.2	O
Center (near bottom)	19-Jun-06	321.3	302.8	-3.0	O		4.9	3.2	O
	28-Aug-06	398.8	394.7	-0.5	O		5.0	0.1	O
	25-Sep-06	380.4	368.2	-1.6	O		4.7	0.3	O
	07-Mar-07	-	-	-	-		4.1	-0.2	O
Ijira River (Input)	19-Jun-06	334.2	318.7	-2.4	O		5.3	3.3	O
	28-Aug-06	398.1	388.6	-1.2	O		5.2	1.0	O
	25-Sep-06	367.7	355.7	-1.7	O		4.8	0.7	O
	07-Mar-07	408.5	399.2	-1.2	O		4.0	-0.5	O
Kodo River (Input)	19-Jun-06	293.4	282.8	-1.8	O		5.0	2.6	O
	28-Aug-06	-	-	-	-		4.4	0.5	O
	25-Sep-06	327.6	314.3	-2.1	-		-	-	-
	07-Mar-07	-	-	-	-		3.6	-1.0	O
Ijira River (Output)	19-Jun-06	308.1	298.4	-1.6	O		-	-	-
	28-Aug-06	363.1	359.5	-0.5	O		4.9	0.0	O
	25-Sep-06	429.9	415.3	-1.7	O		-	-	-
	07-Mar-07	-	-	-	-		-	-	-
Discharge	19-Jun-06	327.8	306.0	-3.4	O		4.6	1.8	O
	28-Aug-06	-	-	-	-		5.1	1.5	O
	25-Sep-06	375.9	363.4	-1.7	O		4.6	0.0	O
	07-Mar-07	-	-	-	-		4.0	-0.4	O

Table 6.4(4) Result of Inland Aquatic Environment Monitoring

Duration: 2006.5.-2007.1

Country: Japan

Lake Name: Banryu Lake

Site	Sampling Date	Mandatory Parameters : 4 times/year											
		Temp. (°C)	pH	EC (mS/m)	Alkalinity (meq/L)	SO ₄ ²⁻ (mg/L)	NO ₃ ⁻ (mg/L)	Cl ⁻ (mg/L)	NH ₄ ⁺ (mg/L)	Na ⁺ (mg/L)	K ⁺ (mg/L)	Ca ²⁺ (mg/L)	Mg ²⁺ (mg/L)
NO.2 (center) surface	23-May-06	21.7	7.07	10.8	0.155	4.76	0.008	23.2	<0.02 ^{*1}	14.3	1.80	1.52	1.81
	18-Jul-06	27.2	6.87	9.2	0.130	4.28	0.008	19.3	<0.02 ^{*1}	12.4	1.62	1.22	1.44
	18-Oct-06	22.1	7.16	10.2	0.182	4.00	0.008	21.2	<0.02 ^{*1}	13.6	1.81	1.45	1.75
	16-Jan-07	6.7	6.98	10.9	0.179	4.73	0.515	22.7	0.11	14.8	2.08	1.77	2.06
	mean	19.4	7.01	10.3	0.162	4.44	0.133	21.6	0.03	13.8	1.83	1.49	1.77
NO.2 (center) near bottom	23-May-06	9.8	6.84	12.3	0.358	4.35	0.240	23.8	0.22	14.6	1.93	2.08	2.24
	18-Jul-06	10.9	6.40	13.0	0.554	2.86	<0.005 ^{*1}	23.7	<0.02 ^{*1}	15.3	2.38	3.26	2.82
	18-Oct-06	13.7	6.94	13.0	0.571	2.48	0.009	22.8	0.26	14.8	2.28	3.34	2.81
	16-Jan-07	5.7	7.05	11.0	0.177	4.76	0.495	23.0	0.12	15.1	2.11	1.86	2.10
	mean	10.0	6.73	12.3	0.415	3.61	0.186	23.3	0.15	14.9	2.18	2.63	2.49
NO.3 surface	23-May-06	21.2	7.09	10.8	0.157	5.05	0.004	23.0	<0.02 ^{*1}	14.5	1.77	1.60	1.69
	18-Jul-06	27.2	7.01	9.1	0.135	4.49	0.005	18.5	<0.02 ^{*1}	11.9	1.59	1.44	1.42
	18-Oct-06	21.0	7.18	10.2	0.196	4.15	0.004	20.8	<0.02 ^{*1}	13.4	1.81	1.64	1.74
	16-Jan-07	6.2	7.04	10.9	0.178	4.69	0.540	22.6	0.11	15.0	2.09	1.86	2.09
	mean	18.9	7.08	10.3	0.167	4.60	0.138	21.2	0.03	13.7	1.82	1.64	1.74
note - : Items were not analyzed *1 : less than determination limits # pick up 2 samples on site, only center surface and measure three times/sample. # Mean of pH takes an average of hydrogen ion. # When the value is under detection limits, it considers "0". When it is over detection limits and under determination limits, it considers half determination limits. And using it, it was calculated the average and R1R2". # Annual precipitation is 1673mm/year in 2006 (Lake Banryu national acid rain monitoring station)													

Site	Sampling Date	Mandatory Parameters : Once/year								Optional Parameters				
		PO ₄ ³⁻ (mg/L)	NO ₂ ⁻ (mg/L)	DOC (mg/L)	Transparency (m)	Water color	Al ³⁺ (mg/L)	COD (mg/L)	Chl-a (µg/L)	Fe ³⁺ (mg/L)	Mn ²⁺ (mg/L)	TOC (mg/L)	TN (mg/L)	TP (mg/L)
NO.2 (center) surface	23-May-06	<0.003 ^{*1}	<0.003 ^{*1}	2.3	2.7	green	0.02	4.2	2.7	0.02	<0.005 ^{*1}	2.9	0.23	0.010
	18-Jul-06	<0.003 ^{*1}	<0.003 ^{*1}	3.7	2.3	green	0.03	6.2	7.3	0.06	<0.005 ^{*1}	4.1	0.24	0.014
	18-Oct-06	<0.003 ^{*1}	<0.003 ^{*1}	2.7	2.9	green	0.01	4.7	3.6	0.04	<0.005 ^{*1}	3.3	0.24	0.010
	16-Jan-07	<0.003 ^{*1}	0.012	2.2	2.1	green	0.01	4.2	5.1	0.02	<0.005 ^{*1}	2.6	0.41	0.011
	mean	<0.003 ^{*1}	<0.003 ^{*1}	2.7	2.5		0.02	4.8	4.7	0.03	<0.005 ^{*1}	3.2	0.28	0.011
NO.2 (center) near bottom	23-May-06	<0.003 ^{*1}	0.004	2.7			0.015	5.6	13.4	1.42	0.520	3.6	0.54	0.021
	18-Jul-06	<0.003 ^{*1}	0.010	3.1			0.010	8.1	44.3	5.09	0.913	5.3	0.44	0.029
	18-Oct-06	0.013	0.012	3.0			0.010	8.9	64.3	5.15	0.915	5.5	0.69	0.053
	16-Jan-07	<0.003 ^{*1}	<0.003 ^{*1}	2.2			0.010	4.1	4.3	0.02	<0.005 ^{*1}	2.7	0.43	0.012
	mean	0.005	0.006	2.7			0.011	6.7	31.6	2.92	0.587	4.3	0.53	0.028
NO.3 surface	23-May-06	<0.003 ^{*1}	<0.003 ^{*1}	2.2	2.4	green	0.010	4.1	3.8	0.02	0.004	2.9	0.22	0.016
	18-Jul-06	<0.003 ^{*1}	<0.003 ^{*1}	3.1	2.2	green	0.034	5.9	7.7	0.06	0.006	3.6	0.23	0.018
	18-Oct-06	<0.003 ^{*1}	<0.003 ^{*1}	2.2	2.5	green	0.010	4.8	3.1	0.03	0.006	2.8	0.23	0.011
	16-Jan-07	<0.003 ^{*1}	0.005	2.1	2.1	green	0.010	4.1	4.7	0.02	0.002	2.4	0.41	0.011
	mean	<0.003 ^{*1}	<0.003*2	2.4	2.3		0.016	4.7	4.8	0.03	0.005	2.9	0.27	0.014

		Anion	Cation	R1	Judge		Acalc	R2	Judge
NO.2 (center) surface	23-May-06	909.9	893.4	-0.9	O		11.2	1.8	O
	18-Jul-06	763.8	759.1	-0.3	O		9.4	1.1	O
	18-Oct-06	861.8	854.3	-0.4	O		10.5	1.7	O
	16-Jan-07	927.6	959.2	1.7	O		11.6	3.2	O
NO.2 (center) near bottom	23-May-06	1121.8	984.5	-6.5	O		12.7	1.7	O
	18-Jul-06	1280.7	1121.4	-6.6	O		14.0	3.8	O
	18-Oct-06	1263.9	1113.9	-6.3	O		13.8	3.1	O
	16-Jan-07	931.0	980.3	2.6	O		11.8	3.4	O
NO.3 surface	23-May-06	911.0	894.9	-0.9	O		11.2	1.8	O
	18-Jul-06	750.4	747.0	-0.2	O		9.3	1.0	O
	18-Oct-06	869.2	854.1	-0.9	O		10.6	1.7	O
	16-Jan-07	921.9	976.8	2.9	O		11.6	3.3	O
note									

Table 6.4(5) Result of Inland Aquatic Environment Monitoring

Duration: 2005.2-2006.11
 Country: Malaysia
 Lake Name: Semenyih Dam

1.Result in 2006

Site	Sampling Date	Mandatory Parameters : 4 times/year											F ⁻ (mg/L)	
		Temp. (°C)	pH	EC (mS/m)	Alkalinity (meq/L)	SO ₄ ²⁻ (mg/L)	NO ₃ ⁻ (mg/L)	Cl ⁻ (mg/L)	NH ₄ ⁺ (mg/L)	Na ⁺ (mg/L)	K ⁺ (mg/L)	Ca ²⁺ (mg/L)		Mg ²⁺ (mg/L)
Surface	20-Apr-06	29.1	6.95	3.25	-	0.67	0.23	1.29	-	-	-	1.62	0.49	-
	21-May-06	28.8	7.32	3.30	-	0.62	0.22	1.26	-	-	-	1.51	0.50	-
	19-Jun-06	29.6	7.37	2.32	-	0.67	0.40	1.48	-	11.0	-	1.40	0.48	-
	20-Jul-06	29.3	7.30	3.12	-	0.66	0.33	1.57	-	5.76	-	1.62	0.48	-
	22-Sep-06	28.8	7.23	3.32	0.722	10.6	1.58	14.9	0.19	18.6	17.0	30.9	5.29	0.08
	19-Oct-06	28.6	7.26	3.32	0.685	11.3	1.58	15.9	0.43	18.5	16.3	31.5	5.70	0.09
	21-Nov-06	29.0	7.39	2.57	0.658	10.8	1.78	12.8	0.27	18.9	17.1	32.2	5.97	0.07
	mean ^{*1}	29.0	7.24	3.03	0.688 ^{*2}	5.04	0.87	7.03	0.29 ^{*2}	14.5 ^{*3}	16.8 ^{*3}	14.4	2.70	0.08 ^{*2}

note
 - : Items were not analyzed
 *1 : Mean of pH takes an average of hydrogen ion.
 *2 : It's the average of 3 times measurement.
 *3 : It's the average of 5 times measurement.

Surface	Anion	Cation	R1 ^{*4}		Judge ^{*4}		Alcalc	R2 ^{*4}		Judge ^{*4}	
			R1	R2	Judge	Judge		R2	Judge		
20-Apr-06	*5	*5	*5	*5	*5	*5	*5	*5	*5	*5	*5
21-May-06	*5	*5	*5	*5	*5	*5	*5	*5	*5	*5	*5
19-Jun-06	*5	*5	*5	*5	*5	*5	*5	*5	*5	*5	*5
20-Jul-06	*5	*5	*5	*5	*5	*5	*5	*5	*5	*5	*5
22-Sep-06	1388.1	3222.8	39.8	X	X	27.2	78.2	X	X	X	X
19-Oct-06	1396.4	3261.7	40.0	X	X	27.5	78.5	X	X	X	X
21-Nov-06	1271.2	3356.3	45.1	X	X	27.2	82.8	X	X	X	X

note
 *4: Concerning "X" judging, it was not able to specify the main reason
 *5: R1 and R2 can not be calculated because some parameters were not analyzed

2.Result in 2005

Site	Sampling Date	Mandatory Parameters : 4 times/year											F ⁻ (mg/L)	
		Temp. (°C)	pH	EC (mS/m)	Alkalinity (meq/L)	SO ₄ ²⁻ (mg/L)	NO ₃ ⁻ (mg/L)	Cl ⁻ (mg/L)	NH ₄ ⁺ (mg/L)	Na ⁺ (mg/L)	K ⁺ (mg/L)	Ca ²⁺ (mg/L)		Mg ²⁺ (mg/L)
Surface	05-Feb-05	31.2	8.12	2.33	0.232	0.68	0.26	1.29	0.06	2.21	1.94	7.42	1.57	0.08
	15-Mar-05	24.0	7.34	1.95	0.230	0.70	5.53	1.44	0.13	2.77	2.22	7.42	1.67	0.08
	17-May-05	25.1	7.39	1.90	0.228	0.66	0.32	1.57	0.10	2.70	2.17	8.93	1.80	0.08
	14-Jul-05	25.1	7.62	2.31	0.230	0.79	0.11	1.51	0.15	3.37	3.24	4.36	2.80	0.07
	20-Sep-05	28.3	6.42	2.43	0.211	0.81	0.03	1.38	*2	2.17	1.84	2.34	0.65	0.09
	18-Oct-05	24.0	7.34	1.95	0.224	0.94	0.92	1.42	0.07	2.20	1.88	2.08	0.66	0.09
	14-Dec-05	30.2	7.49	3.00	0.224	0.66	0.31	1.26	0.17	0.95	0.80	1.94	0.63	0.28
	mean ^{*1}	26.9	7.08	2.27	0.226	0.75	1.07	1.41	0.10	2.34	2.01	4.93	1.40	0.08

note
 *1 : Mean of pH takes an average of hydrogen ion.
 *2 : less than determination limit

Surface	Anion	Cation	R1		Judge*3		Alcalc	R2		Judge*3	
			R1	R2	Judge	Judge		R2	Judge		
05-Feb-05	286.6	649.0	38.7	X	X	5.2	38.4	X	X	X	X
15-Mar-05	374.5	684.3	29.3	X	X	6.1	51.6	X	X	X	X
17-May-05	290.9	767.1	45.0	X	X	6.0	51.9	X	X	X	X
14-Jul-05	291.0	677.5	39.9	X	X	5.4	40.3	X	X	X	X
20-Sep-05	267.7	312.0	7.7	O	O	3.2	13.5	X	X	X	X
18-Oct-05	298.5	301.4	0.5	O	O	3.3	26.2	X	X	X	X
14-Dec-05	278.2	210.0	-14.0	X	X	2.7	-5.4	O	O	O	O

note

*3:Concerning "X" judging, it was not able to specify the main reason

Table 6.4(6) Result of Inland Aquatic Environment Monitoring

Duration: 2006.4-2006.10
 Country: Mongolia
 Lake Name: Terelj river

Site	Sampling Date	Mandatory Parameters : 4 times/year												Mandatory Parameters : Once/year	
		Temp. (°C)	pH	EC (mS/m)	Alkalinity (meq/L)	SO ₄ ²⁻ (mg/L)	NO ₃ ⁻ (mg/L)	Cl ⁻ (mg/L)	NH ₄ ⁺ (mg/L)	Na ⁺ (mg/L)	K ⁺ (mg/L)	Ca ²⁺ (mg/L)	Mg ²⁺ (mg/L)	P (mg/L)	NO ₂ ⁻ (mg/L)
Surface	26-Apr-06	2.3	6.95	8.34	0.545	6.35	1.24	0.89	0.08	2.61	1.07	10.1	1.58	0.011	0.007
	26-May-06	10.0	6.61	3.26	0.161	2.34	0.40	0.17	<0.01 ^{*2}	1.17	0.52	4.60	0.64	<0.004 ^{*2}	0.004
	28-Jun-06	9.3	7.33	4.26	0.262	3.22	0.61	0.33	<0.01 ^{*2}	1.71	0.47	6.43	0.93	0.005	0.003
	20-Jul-06	11.7	7.15	3.80	0.303	3.13	0.66	0.36	0.14	1.91	0.59	7.59	0.77	<0.004 ^{*2}	0.002
	23-Aug-06	11.1	7.05	5.10	0.333	2.86	0.51	0.38	<0.01 ^{*2}	2.66	0.66	13.9	1.26	<0.004 ^{*2}	0.004
	13-Sep-06	5.6	7.24	5.28	0.343	3.39	0.65	0.55	<0.01 ^{*2}	2.57	0.68	13.9	1.39	<0.004 ^{*2}	*2
	25-Oct-06	6.2	7.04	5.42	0.343	3.94	1.46	0.55	<0.01 ^{*2}	1.83	0.34	6.80	0.93	0.005	0.003
	mean ^{*1}	8.0	6.99	5.07	0.327	3.60	0.79	0.5	0.03	2.01	0.66	8.52	1.04	0.003	0.003

note
 *1 : Mean of pH takes an average of hydrogen ion.
 *2 : less than determination limits

		Anion	Cation	R1	Judge*3		Δcalc	R2	Judge*3
Surface	20-Apr-05	722.3	777.4	3.7	O		8.3	-0.1	O
	27-May-05	221.0	346.6	22.1	X		3.2	-0.9	O
	29-Jun-05	348.2	483.8	16.3	X		4.6	4.2	O
	27-Jul-05	389.0	540.3	16.3	X		5.2	15.1	X
	31-Aug-05	411.5	931.9	38.7	X		7.5	19.2	X
	28-Sep-05	439.6	935.2	36.0	X		7.7	18.8	X
	26-Oct-05	464.1	504.2	4.1	O		5.4	-0.4	O

note
 *3: Concerning "X" judging, it was not able to specify the main reasons

Table 6.4(7) Result of Inland Aquatic Environment Monitoring

Duration: 2006.3-2006.12
 Country: Philippines
 Lake Name: Pandin Lake & Ambulalakao Lake

Site	Sampling Date	Temp. (°C)	pH	EC (mS/m)	Alkalinity (meq/L)	SO ₄ ²⁻ (mg/L)	NO ₃ ⁻ (mg/L)	Cl ⁻ (mg/L)	NH ₄ ⁺ (mg/L)	Na ⁺ (mg/L)	K ⁺ (mg/L)	Ca ²⁺ (mg/L)	Mg ²⁺ (mg/L)	PO ₄ ³⁻ (mg/L)	NO ₂ ⁻ (mg/L)
Pandin Lake (Surface)	09-Mar-06	25.8	7.92	18.0	1.71	0.42	0.54	3.25	*2	7.56	4.51	13.7	7.20	0.02	0.01
	14-Jun-06	25.7	7.47	17.4	1.65	0.52	0.10	3.31	*2	8.36	5.33	15.4	7.60	*2	-
	13-Sep-06	25.0	7.97	16.9	1.67	0.09	0.07	0.10	0.72	8.22	5.26	15.8	7.21	*2	0.04
	07-Dec-06	28.0	7.69	17.1	2.00	0.67	0.07	2.96	0.14	8.16	5.20	15.6	7.19	*2	*2
	mean*1	26.1	7.72	17.3	1.76	0.43	0.19	2.40	0.22	8.08	5.08	15.1	7.30	0.004	0.01
Ambulalakao Lake (Surface)															

- : Items were not analyzed
 *1 : Mean of pH takes an average of hydrogen ion
 *2 : Item were not detected.

		Anion	Cation	R1	Judge
Pandin Lake (Surface)	09-Mar-06	1819.0	1719.9	-2.8	O
	14-Jun-06	1755.8	1893.5	3.8	O
	13-Sep-06	1675.7	1913.6	6.6	O
	07-Dec-06	2098.6	1865.5	-5.9	O
Ambulalakao Lake (Surface)					

	Acalc	R3	Judge
	18.2	0.6	O
	18.9	4.1	O
	18.4	4.4	O
	20.3	8.4	O

Table 6.4(8) Result of Inland Aquatic Environment Monitoring

Duration: 2006.3.-2006.12
 Country: Russian Federation
 Lake Name: See below

Site	Sampling Date	Temp. (°C)	pH	EC (mS/m)	Alkalinity (meq/L)	SO ₄ ²⁻ (mg/L)	NO ₃ ⁻ (mg/L)	Cl ⁻ (mg/L)	NH ₄ ⁺ (mg/L)	Na ⁺ (mg/L)	K ⁺ (mg/L)	Ca ²⁺ (mg/L)	Mg ²⁺ (mg/L)	PO ₄ ³⁻ (mg/L)	NO ₂ ⁻ (mg/L)	COD (mg/L)	TOC (mg/L)	Transparency (m)	O ₂	Si	TP	Fe
																			(mg/L)	(mg/L)	(mg/L)	(mg/L)
Pereemnaya River (surface)	10-Mar-06	0.2	6.77	4.03	0.14	8.23	0.85	0.27	0.028	1.27	0.74	3.74	0.87	0.006	0.003	0.61	1.12	-	12.6	3.27	0.013	-
	11-May-06	5.2	6.77	3.50	0.13	5.88	1.09	0.16	0.073	1.04	0.72	3.00	0.89	0.005	0.002	1.53	1.76	-	11.5	2.06	0.008	-
	22-Jul-06	11.4	6.65	3.99	0.14	7.71	0.45	0.12	0.028	0.87	0.74	3.27	1.10	0.001	*2	1.05	1.76	-	10.0	2.26	0.018	-
	16-Oct-06	4.3	6.78	4.28	0.15	8.12	0.83	0.25	0.050	1.11	0.78	3.41	1.23	0.003	0.003	1.01	1.47	-	12.1	2.42	0.010	-
	mean*1	5.3	6.74	3.95	0.14	7.49	0.81	0.20	0.045	1.07	0.75	3.36	1.02	0.003	0.002	1.05	1.53	-	11.6	2.50	0.012	-
Komarovka River (surface)	18-Jan-06	0.1	7.21	8.31	0.41	9.22	0.30	3.42	0.212	3.07	0.52	8.55	2.30	0.020	*2	-	-	-	10.3	3.85	-	0.17
	19-Apr-06	3.0	7.09	8.30	0.39	9.50	0.28	3.38	0.025	2.95	0.57	8.43	2.25	0.025	0.015	-	-	-	11.3	3.35	-	0.16
	28-Jun-06	12.0	7.06	8.42	0.41	10.08	0.25	2.83	0.045	3.25	0.55	8.40	2.17	0.023	*2	-	-	-	10.5	3.45	-	0.15
	18-Jul-06	20.1	6.95	8.41	0.51	7.13	0.27	2.75	0.115	3.35	0.60	8.45	2.28	*2	*2	-	-	-	10.8	3.33	-	0.15
	21-Nov-06	0.5	7.14	8.39	0.42	9.17	0.22	3.20	0.025	2.87	0.59	8.70	2.37	*2	*2	-	-	-	13.5	3.45	-	0.33
	mean*1	7.1	7.08	8.37	0.43	9.02	0.26	3.12	0.084	3.10	0.57	8.51	2.27	0.014	0.003	-	-	-	11.3	3.49	-	0.19

- : Items were not analyzed

*1 : Mean of pH takes an average of hydrogen ion

*2 : Items were not detected.

		Anion	Cation	R1	Judge
Pereemnaya River (surface)	10-Mar-06	332.7	334.1	0.2	O
	11-May-06	274.5	290.8	2.9	O
	22-Jul-06	311.2	312.2	0.2	O
	16-Oct-06	339.5	342.5	0.4	O
Komarovka River (surface)	18-Jan-06	703.3	774.4	4.8	O
	19-Apr-06	687.7	750.1	4.3	O
	28-Jun-06	703.7	755.6	3.6	O
	18-Jul-06	740.4	776.7	2.4	O
	21-Nov-06	704.7	770.3	4.4	O

	Acalc	R2	Judge
	4.1	0.62	O
	3.4	-1.43	O
	3.8	-2.56	O
	4.1	-1.65	O
	8.5	1.40	O
	8.3	0.25	O
	8.4	0.07	O
	8.5	0.50	O
	8.5	0.62	O

Table 6.4(9) Result of Inland Aquatic Environment Monitoring

Duration: 2006.3-2005.12
 Country: Thailand
 Lake Name: Vachiralongkorn Dam

Site	Sampling Date	Mandatory Parameters : 4 times/year												Mandatory Parameters : Once/year				
		Temp. (°C)	pH	EC (mS/m)	Alkalinity (meq/L)	SO ₄ ²⁻ (mg/L)	NO ₃ ⁻ (mg/L)	Cl ⁻ (mg/L)	NH ₄ ⁺ (mg/L)	Na ⁺ (mg/L)	K ⁺ (mg/L)	Ca ²⁺ (mg/L)	Mg ²⁺ (mg/L)	PO ₄ ³⁻ (mg/L)	NO ₂ ⁻ (mg/L)	COD (mg/L)	Transparency (m)	Water color
Station1 (Ban Pong Chang)	8 Mar 06	30.3	8.60	10.5	1.09	1.33	0.20	0.85	0.01	1.14	0.99	17.2	2.67	<0.01*2	<0.01*2	10.0	4.5	-
	7 Jun 06	31.2	7.11	10.3	1.17	1.37	0.20	0.85	0.06	1.16	1.04	16.5	3.25	<0.01*2	<0.01*2	-	5.0	-
	6 Sep 06	26.8	7.25	10.0	1.08	1.27	0.20	0.97	0.10	1.13	1.10	14.9	3.02	<0.01*2	<0.01*2	-	4.5	-
	13 Dec 06	28.7	6.95	10.9	1.17	1.29	0.20	0.72	0.06	1.14	0.98	16.4	3.73	<0.01*2	<0.01*2	-	4.5	-
	mean*1	29.2	7.21	10.4	1.13	1.31	0.20	0.85	0.06	1.14	1.03	16.2	3.17	<0.01*2	<0.01*2	10.0	4.6	-
Station2 (Ban Pang Pueng)	8 Mar 06	29.7	8.20	10.3	1.06	1.52	0.20	0.92	0.01	1.14	1.02	17.6	2.39	<0.01*2	<0.01*2	11.0	5.0	-
	7 Jun 06	29.9	7.05	10.3	1.11	1.47	0.20	0.84	0.10	1.17	1.11	17.0	2.92	<0.01*2	<0.01*2	-	5.5	-
	6 Sep 06	27.7	7.30	9.40	0.98	1.55	0.20	0.88	0.01	1.11	1.03	14.6	2.48	<0.01*2	<0.01*2	-	4.6	-
	13 Dec 06	27.0	6.80	10.2	1.04	1.22	0.20	0.69	0.01	1.15	1.01	15.7	2.78	<0.01*2	<0.01*2	-	5.0	-
	mean*1	28.6	7.12	10.0	1.05	1.44	0.20	0.83	0.03	1.14	1.04	16.2	2.64	<0.01*2	<0.01*2	11.0	5.0	-
note																		
- : Items were not analyzed																		
*1 : Mean of pH takes an average of hydrogen ion																		
*2 : Less than determination limits																		
	Date	Anion	Cation	R1	Judge		Acalc	R2	Judge									
Station1 (Ban Pong Chang)	8 Mar 06	1139.9	1152.5	0.6	O		11.99	6.6	O									
	7 Jun 06	1220.7	1167.5	-2.2	O		12.42	9.3	O									
	6 Sep 06	1136.8	1068.9	-3.1	O		11.47	7.1	O									
	13 Dec 06	1220.1	1197.2	-1.0	O		12.55	7.0	O									
Station2 (Ban Pang Pueng)	8 Mar 06	1120.7	1148.0	1.2	O		11.92	7.3	O									
	7 Jun 06	1162.4	1164.6	0.1	O		12.17	8.5	O									
	6 Sep 06	1040.2	1004.1	-1.8	O		10.69	6.4	O									
	13 Dec 06	1087.8	1087.3	0.0	O		11.35	5.6	O									
note																		

Table 6.4 (11) Summary of Inland Aquatic Environment Monitoring

Country	Location	Site	Mandatory Parameters : 4 times/year												Mandatory Parameters : Once/year				
			Temp. (degreeC)	pH	EC (mS/m)	Alkalinity (meq/L)	SO ₄ ²⁻ (mg/L)	NO ₃ ⁻ (mg/L)	Cl ⁻ (mg/L)	NH ₄ ⁺ (mg/L)	Na ⁺ (mg/L)	K ⁺ (mg/L)	Ca ²⁺ (mg/L)	Mg ²⁺ (mg/L)	PO ₄ ³⁻ (mg/L)	NO ₂ ⁻ (mg/L)	DOC (mg/L)	COD (mg/L)	Transparency (m)
China	Chongqing	Jiayunshan Lake	16.8	6.36	11.92	0.113	32.7	9.53	3.05	0.110	2.96	2.27	11.1	3.82	-	-	-	3.2	5.0
	Xiamen	Xiaoping Dam	19.1	6.81	5.27	0.190	2.46	2.52	5.13	0.193	6.02	2.33	3.19	0.66	0.02	0.008		0.7	0.9
	Xi'an	Jiwozi River	6.5	6.80	7.59	0.238	11.8	1.87	1.21	0.071	1.93	0.65	7.64	1.11	0.03	0.003		2.8	
	Zhuhai	Zhuxiangdong Stream	24.4	7.18	7.35	0.225	2.60	1.15	4.50	1.100	5.40	1.13	4.38	1.58	-	-		1.0	1.3
Indonesia	Bandung	Patenggang Lake (Center, surface)	21.7	7.49	5.74	0.414	3.80	0.47	2.58	0.388	2.87	1.70	5.70	1.43	0.076	0.018	8.13		0.11
Japan	Gifu pref.	Ijira Lake (Center, surface)	24.1	6.81	3.94	0.164	4.53	2.11	2.09	0.030	2.00	0.33	2.80	1.23	-	-	0.62		2.4
	Shimane pref.	Banryu Lake (Center, surface)	19.4	7.01	10.3	0.162	4.44	0.13	21.61	0.026	13.8	1.83	1.49	1.77	-	-	2.7	4.8	2.5
Malaysia		Semenyih Dam	29.0	7.24	3.03	0.688	5.04	0.87	7.03	0.293	14.5	16.8	14.4	2.70					
Mongolia	Terej	Terej river	8.0	7.05	5.07	0.327	3.60	0.79	0.46	0.031	2.01	0.66	8.52	1.04		0.003			
Philippines	Los Banos	Pandin Lake (Surface)	26.1	7.72	17.3	1.758	0.43	0.19	2.40	0.216	8.08	5.08	15.1	7.30	0.004	0.012			2.2
		Ambulalakao Lake (Surface)	-	-	-	-	-	-	-	-	-	-	-	-					
Russia	Primorskaya	Komarovka River (Surface)	7.1	7.08	8.37	0.428	9.02	0.26	3.12	0.084	3.10	0.57	8.51	2.27	0.014	0.003			
	Southern Baikal	Pereemnaya River (Surface)	5.3	6.74	3.95	0.140	7.49	0.81	0.20	0.045	1.07	0.75	3.36	1.02	0.003	0.002		1.05	
Thailand	Kanchanaburi Province	Vachiralongkorn Dam (Ban Pong Chang)	29.2	7.21	10.4	1.125	1.31	0.20	0.85	0.055	1.14	1.03	16.2	3.17	-	-		10.0	4.6
		Vachiralongkorn Dam (Ban Pang Pueng)	28.6	7.12	10.0	1.046	1.44	0.20	0.83	0.033	1.14	1.04	16.2	2.64	-	-		11.0	5.0
Viet Nam	Hoa Binh Province	Hoa Binh Reservoir (Surface)	25.6	7.22	19.1	1.605	7.71	0.87	1.41	0.120	3.62	1.46	25.2	4.87	0.005	0.006		2.2	0.7
note blank : Items are not including to National Monitoring Plan - : Items were not analyzed or not detected																			

Table 6.5(1) Annual mean values of each parameters from 2000 to 2006 at Jinyushan Lake (China)

	Mandatory Parameters : 4 times/year										Mandatory Parameters : Once/year					
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2001	7.50	9.05	-	26.1	7.68	2.58	0.65	1.78	1.58	6.63	2.63	-	-	-	-	-
2002	6.12	9.52	-	26.4	7.99	2.53	0.09	2.50	1.79	9.08	3.28	-	-	-	-	-
2003	6.55	9.79	0.210	23.2	5.16	2.68	0.21	2.60	1.72	9.03	3.30	-	-	-	-	0.9
2004	6.34	9.61	0.075	25.7	7.94	1.74	0.30	1.98	1.65	9.66	2.71	-	-	-	7.6	2.6
2005	6.04	10.2	0.073	28.1	8.16	2.63	0.04	2.70	1.82	9.36	3.22	*1	*1	-	2.9	3.7
2006	6.36	11.9	0.113	32.7	9.53	3.05	0.11	2.96	2.27	11.1	3.82	*1	*1	-	3.2	5.0

- : Items were not analyzed.

*1 : Less than determination limits

Table 6.5(2) Annual mean values of each parameters from 2000 to 2006 at Xiaoping Dam (China)

	Mandatory Parameters : 4 times/year										Mandatory Parameters : Once/year					
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2001	7.21	-	-	1.43	1.30	2.18	-	-	-	-	-	-	-	-	-	-
2002	7.39	7.00	-	4.67	6.66	2.82	0.20	7.29	2.14	2.29	0.82	-	-	-	-	-
2003	6.73	7.19	0.193	2.68	5.02	5.91	0.17	6.53	2.06	2.35	0.86	-	-	-	1.8	-
2004	7.34	5.57	0.242	2.68	7.83	4.35	0.18	6.70	2.18	2.92	0.64	0.02	0.008	-	2.1	-
2005	6.73	4.62	0.232	2.07	2.83	3.94	0.05	4.77	2.37	2.95	0.61	0.02	0.008	-	1.3	0.9
2006	6.81	5.27	0.190	2.46	2.52	5.13	0.19	6.02	2.33	3.19	0.66	0.02	0.008	-	0.7	0.9

- : Items were not analyzed.

Table 6.5(3) Annual mean values of each parameters from 2000 to 2006 at Jiwozi River (China)

	Mandatory Parameters : 4 times/year										Mandatory Parameters : Once/year					
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2001	7.11	4.50	0.225	10.0	1.47	1.06	0.04	1.90	0.70	8.83	1.38	-	-	-	-	-
2002	7.60	8.47	0.110	12.2	1.70	1.80	*1	2.80	1.20	12.7	1.72	-	-	-	-	-
2003	7.54	7.83	0.140	11.4	2.01	1.63	*1	2.08	0.95	12.0	1.59	-	-	-	-	-
2004	7.20	6.63	0.243	11.7	2.30	1.06	*1	1.79	0.68	9.04	1.35	*1	*1	-	3.2	-
2005	6.99	7.99	0.208	15.3	0.81	1.74	0.06	1.77	0.72	7.44	1.35	*1	0.09	-	1.6	-
2006	6.80	7.59	0.238	11.8	1.87	1.21	0.07	1.93	0.65	7.64	1.11	0.03	0.003	-	2.8	-

- : Items were not analyzed.

*1 : Less than determination limits

Table 6.5(4) Annual mean values of each parameters from 2000 to 2006 at Zhuxiangdong stream(China)

	Mandatory Parameters : 4 times/year										Mandatory Parameters : Once/year					
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2001	7.62	-	-	17.7	0.63	43.1	0.20	-	-	-	-	-	-	-	-	-
2002	7.93	6.70	0.963	19.9	0.83	23.8	0.23	7.27	1.57	17.0	2.50	-	-	-	-	-
2003	7.82	7.54	1.603	17.5	0.29	19.6	0.17	7.34	1.96	16.8	2.36	-	0.03	-	1.7	-
2004	7.12	8.49	0.645	5.47	1.90	6.03	*1	8.95	1.88	5.41	2.84	-	-	-	1.1	-
2005	6.97	9.53	0.133	5.83	1.70	6.73	*1	8.90	1.60	4.63	2.65	*1	*1	-	0.9	1.3
2006	7.18	7.35	0.225	2.60	1.15	4.50	1.1	5.40	1.13	4.38	1.58	*1	*1	-	1.0	1.3

- : Items were not analyzed.

*1 : Less than determination limits

Table 6.5(5) Annual mean values of each parameters from 2000 to 2006 at Patenggang Lake (Indonesia)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2001	7.90	7.28	0.488	4.33	0.07	8.19	0.13	4.90	0.54	6.32	2.18	-	-	-	-	-
2002	8.46	5.83	0.255	7.33	0.06	6.30	0.17	4.60	0.71	4.03	1.93	-	-	-	-	-
2003	7.34	6.58	0.460	7.76	0.19	7.50	0.53	4.30	0.49	5.17	2.53	0.207	*1	12.4	-	0.6
2004	7.29	5.89	0.340	2.65	0.03	3.85	0.02	2.10	0.85	5.75	2.20	0.014	*1	7.3	-	0.6
2005	7.19	6.71	0.459	8.83	0.23	2.30	0.43	4.04	1.87	5.70	2.70	0.010	*1	10.9	-	0.1
2006	7.49	5.74	0.414	3.80	0.47	2.58	0.39	2.87	1.70	5.70	1.43	0.085	0.02	8.1	-	0.1

- : Items were not analyzed.

*1 : Less than determination limits

Table 6.5(6) Annual mean values of each parameters from 2000 to 2006 at Ijira Lake (Japan)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2001	6.85	4.33	0.138	4.66	2.31	2.19	0.07	2.37	0.40	3.51	1.61	<0.01*1	-	-	-	-
2002	6.72	4.52	0.173	5.63	2.01	2.27	0.09	2.23	0.38	3.39	1.37	<0.066*1	<0.01*1	3.2	-	2.2
2003	6.75	4.10	0.146	5.14	2.07	2.40	0.08	1.86	0.30	2.94	1.36	<0.01*1	<0.03*1	1.4	-	3.0
2004	7.17	4.05	0.145	4.79	1.88	2.34	0.12	2.15	0.23	2.71	1.23	<0.03*1	<0.02*1	1.1	-	2.8
2005	6.94	4.47	0.153	5.73	2.37	2.32	0.08	2.29	0.39	3.27	1.42	<0.03*1	0.07	0.7	-	3.0
2006	6.81	3.94	0.164	4.53	2.11	2.09	0.03	2.00	0.33	2.80	1.23	<0.1*1	<0.02*1	0.6	-	2.4

- : Items were not analyzed.

*1 : Less than determination limits

Table 6.5(7) Annual mean values of each parameters from 2000 to 2006 at Banryu Lake (Japan)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2001	6.98	9.43	0.174	4.07	0.11	19.7	0.15	12.2	1.75	1.23	1.60	<0.003*1	-	-	5.3	-
2002	7.07	10.1	0.176	3.93	0.30	21.9	0.12	13.0	1.80	1.21	1.76	<0.003*1	<0.003*1	2.5	5.7	1.6
2003	6.98	10.9	0.170	3.96	0.14	22.3	0.19	13.4	1.78	1.09	1.69	<0.003*1	<0.003*1	2.6	5.6	1.5
2004	7.10	10.7	0.165	3.96	0.21	23.0	0.09	14.0	1.84	1.05	1.69	<0.003*1	<0.003*1	3.3	4.8	2.5
2005	7.09	10.7	0.156	4.31	0.14	23.1	0.04	14.2	1.91	1.47	1.82	0.003	<0.003*1	2.6	5.0	2.2
2006	7.01	10.3	0.162	4.44	0.13	21.6	0.11	13.8	1.83	1.49	1.77	<0.003*1	0.003	2.7	4.8	2.5

- : Items were not analyzed.

*1 : Less than determination limits

Table 6.5(8) Annual mean values of each parameters from 2000 to 2006 at Semenyih Dam (Malaysia)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2005	7.08	2.27	0.226	0.75	1.07	1.41	0.11	2.34	2.01	4.93	1.40	-	-	-	-	-
2006	7.24	3.03	0.688	5.04	0.87	7.03	0.29	14.5	16.8	14.4	2.70	-	-	-	-	-

- : Items were not analyzed.

Table 6.5(9) Annual mean values of each parameters from 2000 to 2006 at Terelj river (Mongolia)

	Mandatory Parameters : 4 times/year										Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L
2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	7.23	4.84	0.098	3.47	1.11	0.43	0.04	1.87	0.52	7.17	0.87	-	-	-	-
2003	6.75	4.60	0.266	3.16	0.74	0.36	0.04	1.65	0.48	5.88	0.83	-	-	-	-
2004	6.80	4.44	0.296	2.76	0.70	0.54	0.06	1.60	0.72	5.93	0.89	-	-	-	-
2005	6.90	4.84	0.367	3.18	0.82	0.56	0.05	1.95	0.68	8.90	1.04	-	0.003	-	-
2006	6.99	5.07	0.327	3.60	0.79	0.46	0.11	2.07	0.62	9.04	1.07	-	0.003	-	-

- : Items were not analyzed.

Table 6.5(10) Annual mean values of each parameters from 2000 to 2006 at Pandin Lake (Philippines)

	Mandatory Parameters : 4 times/year										Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L
2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	8.08	18.2	1.808	0.33	0.08	3.16	0.02	8.91	5.81	12.1	6.91	0.014	0.072	-	-
2005	7.96	18.1	1.723	1.11	0.58	3.76	0.69	8.18	4.89	14.3	7.84	0.005	0.295	-	-
2006	7.72	17.3	1.758	0.43	0.19	2.40	0.22	8.08	5.08	15.1	7.30	0.004	0.012	-	2.2

- : Items were not analyzed.

Table 6.5(11) Annual mean values of each parameters from 2000 to 2006 at Ambrarakao Lake (Philippines)

	Mandatory Parameters : 4 times/year										Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L
2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2005	5.82	0.44	0.020	0.15	0.11	0.06	-	0.22	0.15	0.2	0.04	-	0.100	-	-
2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- : Items were not analyzed.

Table 6.5(12) Annual mean values of each parameters from 2000 to 2006 at Pereemnaya River (Russia)

	Mandatory Parameters : 4 times/year										Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L
2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	6.55	3.93	0.135	7.18	0.76	0.23	0.03	1.10	0.77	3.23	0.94	0.008	0.002	-	2.0
2005	6.80	4.03	0.135	7.84	0.66	0.20	0.03	0.96	0.71	3.29	1.04	0.002	0.005	-	0.8
2006	6.74	3.95	0.140	7.49	0.81	0.20	0.04	1.07	0.75	3.36	1.02	0.004	0.002	-	1.1

- : Items were not analyzed.

Table 6.5(13) Annual mean values of each parameters from 2000 to 2006 at Komarovka River (Russia)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2005	7.24	8.75	0.495	11.2	0.33	3.09	0.15	3.34	0.60	9.07	2.25	*1	*1	-	-	-
2006	7.08	8.37	0.428	9.02	0.26	3.12	0.08	3.10	0.57	8.51	2.27	0.014	0.003	-	-	-

- : Items were not analyzed.

*1 : Less than determination limits

Table 6.5(14) Annual mean values of each parameters from 2000 to 2006 at Vachiralongorn Dam(Ban Pong Chang) (Thailand)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	7.52	12.1	0.625	1.15	0.04	0.89	*1	1.14	1.01	13.3	2.98	0.02	*1	-	4.0	5.3
2003	7.45	10.8	0.625	1.29	0.01	0.84	*1	1.14	0.97	16.2	3.52	*1	*1	-	5.8	5.0
2004	7.77	11.5	1.050	1.27	0.20	0.98	0.05	1.18	0.97	15.7	3.26	0.02	0.01	-	7.5	5.6
2005	7.33	11.2	1.276	1.47	0.11	1.05	0.01	1.26	1.02	15.8	3.12	0.01	0.01	-	<4.0*1	3.6
2006	7.21	10.4	1.125	1.31	0.20	0.85	0.06	1.14	1.03	16.2	3.17	<0.01*1	<0.01*1	-	10.0	4.6

- : Items were not analyzed.

*1 : Less than determination limits

Table 6.5(15) Annual mean values of each parameters from 2000 to 2006 at Vachiralongorn Dam(Ban Pang Pueng) (Thailand)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	7.31	12.0	0.633	1.24	0.06	0.90	*1	1.19	0.99	13.3	2.90	0.03	*1	-	3.0	5.5
2003	7.87	10.5	0.590	1.41	0.01	0.84	*1	1.17	0.98	16.2	2.94	*1	*1	-	7.3	5.8
2004	7.24	11.1	1.005	1.54	0.20	0.95	0.05	1.21	1.03	16.0	2.83	0.02	0.01	-	5.0	8.1
2005	6.98	11.2	1.015	1.29	0.11	1.15	0.03	1.52	1.02	16.2	2.98	0.14	0.01	-	*1	4.4
2006	7.12	10.0	1.046	1.44	0.20	0.83	0.03	1.14	1.04	16.2	2.64	<0.01*1	<0.01*1	-	11.0	5.0

- : Items were not analyzed.

*1 : Less than determination limits

Table 6.5(16) Annual mean values of each parameters from 2000 to 2006 at Hoa Binh Reservoir (Viet Num)

	Mandatory Parameters : 4 times/year											Mandatory Parameters : Once/year				
	pH	EC mS/m	Alkalinity meq/L	SO ₄ ²⁻ mg/L	NO ₃ ⁻ mg/L	Cl ⁻ mg/L	NH ₄ ⁺ mg/L	Na ⁺ mg/L	K ⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	PO ₄ ³⁻ mg/L	NO ₂ ⁻ mg/L	DOC mg/L	COD mg/L	Transparency m
2001	7.59	17.4	1.575	5.44	0.59	1.16	0.15	1.97	1.22	21.8	6.12	-	-	-	-	-
2002	7.88	17.1	1.613	3.90	0.46	1.35	0.21	1.70	1.16	22.5	5.49	-	-	-	-	-
2003	7.29	18.4	1.595	6.13	0.63	1.33	0.08	2.14	1.36	24.5	4.78	-	-	-	-	-
2004	6.55	19.3	1.675	4.51	1.16	1.38	0.17	2.45	1.11	27.2	4.11	-	-	-	-	-
2005	7.58	19.0	1.605	5.62	1.04	1.62	0.16	4.40	1.31	23.1	4.77	-	-	-	-	-
2006	7.22	19.1	1.605	7.71	0.87	1.41	0.12	3.62	1.46	25.2	4.87	0.01	0.01	-	2.20	0.70

- : Items were not analyzed.

Appendix

Meteorological Statistics at the Monitoring Sites

Meteorological Statistics : Rishiri
2006

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	-5.9	-5.2	-1.1	2.2	9.2	13.3	18.4	21.2	17.0	10.2	3.9	-2.3
	max.daily mean	-0.3	3.1	2.6	11.0	14.1	18.6	21.2	24.5	20.6	17.8	12.7	5.1
	min.daily mean	-10.7	-10.5	-6.3	-1.6	3.0	8.0	15.0	18.8	12.7	2.5	-4.1	-6.2
Relative humidity (%)	monthly mean	76	73	73	77	77	88	87	90	79	70	73	71
	max.daily mean	88	87	94	95	96	97	99	99	90	89	93	88
	min.daily mean	63	55	50	55	44	70	74	67	56	47	53	56
Mean wind speed (m/s)		4.7	4.7	5.6	3.9	2.7	2.1	1.9	1.8	3.1	4.3	4.5	4.6
Most frequent wind direction (bearings)		NW	NW	ENE	E	W	E	W	W	NE	NW	NW	NW
Precipitation amount (mm/month)		59	48	55	57	143	76	45	227	277	176	79	98
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		125	193	324	436	515	419	527	361	393	293	128	79

Meteorological Statistics : Tappi
2006

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	-1.7	-0.4	2.4	5.4	11.4	14.5	18.4	23.5	19.6	14.0	8.6	2.8
	max.daily mean	2.9	6.3	7.0	11.4	16.7	20.1	21.9	26.3	23.3	18.7	16.8	7.8
	min.daily mean	-6.3	-7.1	-4.8	2.0	7.0	10.6	15.0	18.2	15.6	9.8	2.4	-1.7
Relative humidity (%)	monthly mean	71	71	67	75	76	86	87	81	70	69	68	66
	max.daily mean	87	85	87	94	94	95	96	93	86	86	82	87
	min.daily mean	58	59	51	48	37	60	76	65	50	49	54	54
Mean wind speed (m/s)		10.3	9.4	9.8	6.9	5.6	5.2	5.4	3.9	4.5	6.3	7.0	8.1
Most frequent wind direction (bearings)		WSW	WSW	WSW	WSW	SW	NE	ENE	ENE	ENE	WSW	WSW	WSW
Precipitation amount (mm/month)		7	36	58	73	102	58	87	116	109	76	55	8
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		94	163	303	359	532	426	419	518	444	279	127	94

Meteorological Statistics : Sado-seki
2006

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	1.2	2.7	4.8	9.4	15.0	18.7	21.6	26.2	20.8	16.6	11.3	6.4
	max.daily mean	8.3	9.0	11.1	18.4	21.3	22.9	27.1	29.3	27.7	20.9	18.8	10.8
	min.daily mean	-2.5	-3.5	-2.2	4.1	7.1	13.9	17.9	23.5	17.4	13.0	6.2	2.3
Relative humidity (%)	monthly mean	67	72	63	63	71	78	85	75	71	70	65	68
	max.daily mean	87	90	92	94	92	92	95	82	93	87	90	84
	min.daily mean	56	54	37	25	41	54	65	60	58	45	43	49
Mean wind speed (m/s)		8.1	7.4	7.2	6.2	3.8	3.3	4.2	2.7	4.4	4.6	6.2	6.7
Most frequent wind direction (bearings)		W	W	W	WSW	SW	WSW	SW	WSW	ENE	NE	W	W
Precipitation amount (mm/month)		26	47	61	65	111	19	350	69	79	70	150	172
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		121	185	337	415	511	524	327	647	414	332	148	87

Meteorological Statistics : Happo
2006

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	-9.0	-6.3	-5.0	0.8	8.4	12.3	14.9	17.4	12.0	7.8	1.5	-4.0
	max.daily mean	1.7	3.0	1.3	6.4	14.7	15.6	17.6	19.9	17.0	12.3	8.3	1.4
	min.daily mean	-14.9	-16.8	-13.5	-5.6	3.2	7.6	11.7	14.2	7.0	3.6	-5.4	-12.6
Relative humidity (%)	monthly mean	68	71	70	66	68	76	87	83	88	78	72	74
	max.daily mean	90	93	98	95	96	97	96	94	97	96	92	94
	min.daily mean	15	30	35	34	23	51	64	62	48	31	19	33
Mean wind speed (m/s)		6.4	5.2	6.2	5.6	2.8	2.2	2.3	1.7	2.1	2.3	2.8	4.3
Most frequent wind direction (bearings)		NNW	NW	NW	S	S	SSE	SSE	SSE	SSE	SSE	S	NW
Precipitation amount (mm/month)		148	128	155	216	250	89	934	31	208	301	155	133
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		299	347	513	601	550	498	301	386	288	320	243	229

Meteorological Statistics : Ijira
2006

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	0.6	2.7	5.1	10.1	16.3	20.6	23.1	25.4	20.9	16.6	10.2	5.0
	max.daily mean	3.4	8.0	10.0	14.1	21.1	23.7	26.5	27.9	24.9	19.9	15.4	8.6
	min.daily mean	-1.8	-2.6	-0.6	5.7	12.3	16.7	20.2	22.4	18.1	13.4	6.4	-0.9
Relative humidity (%)	monthly mean	84	82	81	76	84	83	92	83	87	85	89	89
	max.daily mean	99	100	98	99	99	98	98	97	98	98	98	98
	min.daily mean	62	59	49	53	62	60	75	64	74	68	71	64
Mean wind speed (m/s)		0.6	0.6	0.8	0.9	0.7	0.6	0.4	0.5	0.5	0.5	0.5	0.5
Most frequent wind direction (bearings)		W	Calm	Calm	W	W	W	Calm	W	Calm	Calm	Calm	Calm
Precipitation amount (mm/month)		116	131	212	228	457	273	582	133	282	158	109	106
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		220	234	349	373	382	432	320	498	345	325	195	164

Meteorological Statistics : Oki
2006

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	3.9	4.6	6.8	11.3	16.0	19.5	22.5	26.4	21.0	18.0	13.1	8.3
	max.daily mean	10.0	10.8	11.6	17.5	21.6	22.9	26.2	28.1	25.3	21.1	18.2	12.4
	min.daily mean	0.5	-0.6	0.4	6.5	10.7	15.0	19.3	24.1	17.8	14.4	8.7	2.2
Relative humidity (%)	monthly mean	66	70	67	66	73	78	85	76	73	71	65	63
	max.daily mean	82	85	88	91	90	90	92	83	90	83	89	84
	min.daily mean	55	57	48	51	50	61	70	68	56	55	52	49
Mean wind speed (m/s)		4.0	4.3	3.7	3.9	2.9	2.5	2.9	2.4	3.5	3.7	4.4	3.9
Most frequent wind direction (bearings)		N	NNE	N	S	S	S	S	NNE	NNE	NNE	NNE	N
Precipitation amount (mm/month)		69	77	82	108	107	33	446	19	74	1	114	76
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		183	217	357	438	306	523	390	655	394	374	203	146

Meteorological Statistics : Banryu
2006

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	4.9	5.6	7.4	12.3	16.9	20.7	24.7	26.7	20.5	17.7	12.5	7.4
	max.daily mean	11.5	11.3	12.9	20.2	22.8	24.6	28.4	28.0	24.9	19.8	17.8	12.4
	min.daily mean	0.6	1.0	0.8	8.1	11.0	17.1	20.2	22.3	17.1	15.0	6.7	2.6
Relative humidity (%)	monthly mean	70	70	69	68	79	81	83	80	83	79	73	73
	max.daily mean	89	89	89	93	93	92	93	89	92	91	93	90
	min.daily mean	46	54	54	46	60	64	65	71	78	70	52	54
Mean wind speed (m/s)		3.3	3.5	3.5	3.3	2.8	2.2	2.1	2.4	2.9	3.5	3.1	3.2
Most frequent wind direction (bearings)		S	S	S	S	S	S	S	S	S	S	S	S
Precipitation amount (mm/month)		84	72	127	148	173	148	565	5	144	60	88	60
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		217	231	382	446	486	526	434	642	433	422	247	172

Meteorological Statistics : Yusuhara
2006

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	1.6	3.5	4.6	9.8	15.2	18.7	22.6	23.1	19.2	15.8	9.8	4.6
	max.daily mean	9.0	12.8	9.6	15.5	19.1	22.2	25.2	25.9	22.3	17.9	14.5	10.7
	min.daily mean	-4.1	-5.3	-4.6	5.4	11.2	14.8	20.4	20.1	16.5	13.4	5.3	-3.5
Relative humidity (%)	monthly mean	68	71	65	66	77	70	96	96	90	80	81	81
	max.daily mean	93	91	91	92	94	100	100	100	100	98	100	99
	min.daily mean	49	26	28	30	52	10	86	89	73	57	56	62
Mean wind speed (m/s)		2.7	2.6	2.8	2.5	1.9	1.5	1.5	1.5	1.4	2.2	2.3	2.6
Most frequent wind direction (bearings)		NNW	NNW	NNW	N	SSE	NNW	NNW	SSE	NNW	NNW	NNW	NNW
Precipitation amount (mm/month)		80	119	103	332	328	341	299	387	303	61	99	81
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		300	322	449	487	465	470	490	541	439	484	284	272

Meteorological Statistics : Hedo
2006

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	17.3	16.9	17.2	19.8	23.5	25.4	28.4	28.3	26.5	25.2	22.0	18.7
	max.daily mean	21.2	21.2	20.3	22.0	27.3	28.7	29.4	29.3	28.8	27.2	23.9	22.0
	min.daily mean	12.2	12.3	13.1	16.9	19.6	21.5	26.4	25.6	23.7	23.4	18.3	14.7
Relative humidity (%)	monthly mean	71	73	70	75	82	85	77	80	77	70	71	69
	max.daily mean	89	91	89	91	90	93	86	90	88	88	88	88
	min.daily mean	55	56	47	57	66	76	68	71	62	57	48	54
Mean wind speed (m/s)	5.4	5.4	5.0	4.3	3.9	3.6	4.0	3.8	3.4	5.5	4.3	6.4	
Most frequent wind direction (bearings)	N	N	NNW	N	E	SSW	SE	E	SE	NE	N	NE	
Precipitation amount (mm/month)	136	71	200	194	251	357	34	128	96	66	139	197	
Sunshine duration (hours/month)	-	-	-	-	-	-	-	-	-	-	-	-	
Solar radiation (MJ/m ² /month)	226	236	412	440	481	484	728	670	548	471	296	210	

Meteorological Statistics : Ogasawara
2006

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	15.0	16.8	17.2	18.1	21.6	24.6	26.3	25.9	25.7	24.0	21.9	19.7
	max.daily mean	20.0	20.8	20.8	20.8	25.5	26.1	27.7	27.1	24.1	25.6	24.0	23.2
	min.daily mean	11.8	12.2	13.3	14.2	17.1	21.1	24.1	23.3	24.1	21.9	17.9	15.1
Relative humidity (%)	monthly mean	74	78	76	-	-	84	82	86	85	-	-	-
	max.daily mean	93	94	94	-	-	87	87	93	91	-	-	-
	min.daily mean	57	59	57	-	-	80	76	73	80	-	-	-
Mean wind speed (m/s)	1.5	1.5	1.9	1.8	1.7	1.7	1.3	2.0	1.3	-	-	-	
Most frequent wind direction (bearings)	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	-	-	-	
Precipitation amount (mm/month)	78	129	108	167	48	139	24	246	99	300	103	164	
Sunshine duration (hours/month)	-	-	-	-	-	-	-	-	-	-	-	-	
Solar radiation (MJ/m ² /month)	341	366	424	443	551	565	762	531	418	-	-	-	

Meteorological Statistics : Bangkok
2006

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C) *	monthly mean	27.6	29.0	30.1	30.5	29.5	29.4	29.4	29.2	28.5	28.5	29.2	26.2
	max.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
	min.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
Relative humidity (%) *	monthly mean	65	68	68	67	70	70	68	67	73	71	64	62
	max.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
	min.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
Mean wind speed (m/s) *	0.7	0.9	1.5	1.1	0.8	1.0	1.4	1.4	0.6	0.5	0.6	1.1	
Most frequent wind direction (bearings) *	SSW N	SSW	SW	SSW	SW	SW	SW	SW	SW	SW	N NNE	N	N
Precipitation amount (mm/month) **	0 0	68 30	6 153	133 107	254 284	300 249	177 308	49 213	322 346	243 142	31 0	4 0	
Sunshine duration (hours/month)	-	-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)	-	-	-	-	-	-	-	-	-	-	-	-	-

* Measured at PRD

** Measured at Chatuchak

Meteorol Meteorological condition in 2006 (Samutprakarn)
2006

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C) *	monthly mean	27.8	29.7	30.8	30.9	30.2	29.6	29.7	29.3	28.9	29.2	29.5	26.9
	max.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
	min.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
Relative humidity (%) *	monthly mean	65	69	71	70	73	77	75	75	75	69	72	66
	max.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
	min.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
Mean wind speed (m/s) *	1.4	1.6	2.1	1.8	1.4	1.6	2.1	2.2	1.3	1.3	1.5	1.5	
Most frequent wind direction (bearings)	-	-	-	-	-	-	-	-	-	-	-	-	-
Precipitation amount (mm/month) **	0 1	18 17	56 47	57 56	134 137	223 224	168 169	153 155	357 452	139 144	16 15	6 5	
Sunshine duration ** (hours/month)	245	222	249	229	160	158	106	110	141	194	248	254	
Solar radiation (MJ/m ² /month)	-	-	-	-	-	-	-	-	-	-	-	-	-

* Measured at TMD

** Measured at Bangna

Meteorological Statistics : Patumthani
2006

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	27.6	29.4	30.2	30.7	30.0	30.3	29.8	29.3	28.8	29.0	29.0	26.5
	max.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
	min.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
Relative humidity (%)	monthly mean	63	63	67	67	69	69	69	68	72	71	72	66
	max.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
	min.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
Mean wind speed (m/s)		-	-	-	-	-	-	-	-	-	-	-	-
Most frequent wind direction (bearings)		-	-	-	-	-	-	-	-	-	-	-	-
Precipitation amount (mm/month)		1	3	135	50	153	220	172	117	378	168	15	22
Sunshine duration (hours/month)		255	218	203	196	146	177	88	90	147	190	241	260
Solar radiation (MJ/m ² /month)		-	-	-	-	-	-	-	-	-	-	-	-

Measured at nearest meteorological station (Patumtani Agro station)
Meteorological Statistics : Khanchanaburi
2006

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C) *	monthly mean	26.1	28.3	30.1	30.0	28.5	28.2	27.0	26.7	28.4	28.0	26.4	24.1
	max.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
	min.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
Relative humidity (%) *	monthly mean	72	67	69	73	84	85	89	89	85	84	76	72
	max.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
	min.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
Mean wind speed (m/s)		-	-	-	-	-	-	-	-	-	-	-	-
Most frequent wind direction (bearings)		-	-	-	-	-	-	-	-	-	-	-	-
Precipitation amount * (mm/month) **		0	58	82	140	399	275	492	472	235	138	44	0
		0	68	116	146	380	287	534	607	251	93	37	0
Sunshine duration (hours/month)		-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)		-	-	-	-	-	-	-	-	-	-	-	-

** Measured at nearest meteorological station (Thong Pa Poom station)*
*** Measured at Vachiralongkorn*

Meteorological Statistics : Chiang Mai
2006

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly *	22.4	25.1	28.0	29.3	27.6	28.6	27.1	27.0	27.7	26.8	24.0	21.9
	mean **	21.7	25.0	28.0	28.3	26.6	27.6	27.1	27.3	27.7	27.3	25.3	23.0
	max.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
	min.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
Relative humidity (%)	monthly *	76	65	57	68	82	84	88	91	86	85	78	73
	mean **	69	58	51	62	73	75	79	78	76	72	67	64
	max.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
	min.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
Mean wind speed (m/s)	-	-	-	-	-	-	-	-	-	-	-	-	-
Most frequent wind direction (bearings)	-	-	-	-	-	-	-	-	-	-	-	-	-
Precipitation amount (mm/month) *	0	0	18	207	220	180	269	341	195	70	0	0	
(mm/month) **	1	2	10	168	237	200	329	288	187	68	1	1	
Sunshine duration (hours/month) *	266	243	263	214	167	160	69	93	151	-	257	257	
Solar radiation (MJ/m ² /month)	-	-	-	-	-	-	-	-	-	-	-	-	-

* Measured at Chiangmai (TMD's data)

** Measured at Chiangmai35 (Salaklang)

Meteorological Statistics : Nakhon Ratchasima
2006

Month		1	2	3	4	5	6	7	8	9	10	11	12
Items													
Temperature (°C)	monthly mean	-	-	-	-	-	-	-	-	-	-	-	-
	max.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
	min.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
Relative humidity (%)	monthly mean	-	-	-	-	-	-	-	-	-	-	-	-
	max.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
	min.daily mean	-	-	-	-	-	-	-	-	-	-	-	-
Mean wind speed (m/s)	-	-	-	-	-	-	-	-	-	-	-	-	-
Most frequent wind direction (bearings)	-	-	-	-	-	-	-	-	-	-	-	-	-
Precipitation amount (mm/month)	0	7	113	31	100	173	165	135	225	171	41	0	
Sunshine duration (hours/month)	-	-	-	-	-	-	-	-	-	-	-	-	-
Solar radiation (MJ/m ² /month)	-	-	-	-	-	-	-	-	-	-	-	-	-

Measured at Sakaerat Silvicultural Research Station

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